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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: MC45799

Sampling Dates: 05/05/16 - 05/06/16

Report to:

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

ATTN: Terry Taylor

Total number of pages in report: 744

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

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

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

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SGS Accutest

Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45799

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45799-1	05/06/16	14:00	TT	05/07/16	AQ	Ground Water	RA5-GWD
MC45799-1A	05/06/16	14:00	TT	05/07/16	AQ	Ground Water	RA5-GWD
MC45799-2	05/05/16	15:30	TT	05/07/16	AQ	Equipment Blank	BPEB-14
MC45799-2A	05/05/16	15:30	TT	05/07/16	AQ	Equipment Blank	BPEB-14

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client: Anderson Mulholland and Assoc. **Job No:** MC45799

Site: BMSMC, Building 5 Area, Puerto Rico **Report Date** 5/13/2016 4:46:45 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 05/05/2016 and 05/06/2016 and were received at SGS Accutest New England on 05/07/2016 properly preserved, at 2 Deg. C and intact. These Samples received a job number of MC45799. 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: AQ **Batch ID:** GBD3632

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45799-1MS, MC45799-1MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47446

- 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.

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(MC45799).

Summary of Hits

Job Number: MC45799
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 05/05/16 thru 05/06/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45799-1	**RA5-GWD**					
No hits reported in this sample.						
MC45799-1A	**RA5-GWD**					
No hits reported in this sample.						
MC45799-2	**BPEB-14**					
No hits reported in this sample.						
MC45799-2A	**BPEB-14**					
No hits reported in this sample.						

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA5-GWD		
Lab Sample ID:	MC45799-1	**Date Sampled:**	05/06/16
Matrix:	AQ - Ground Water	**Date Received:**	05/07/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73518A.D	1	05/09/16	AF	n/a	n/a	GBD3632
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	87%		70-130%
	2,3,4-Trifluorotoluene	110%		70-130%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA5-GWD		
Lab Sample ID:	MC45799-1A	**Date Sampled:**	05/06/16
Matrix:	AQ - Ground Water	**Date Received:**	05/07/16
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	DE14081.D	1	05/13/16	TA	05/11/16	OP47446	GDE790
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	78	ug/l	
	C9-C18 Aliphatics	ND	110	78	ug/l	
	C19-C36 Aliphatics	ND	110	78	ug/l	
	C11-C22 Aromatics	ND	110	78	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	79%		40-140%
321-60-8	2-Fluorobiphenyl	89%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%
580-13-2	2-Bromonaphthalene	91%		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:	BPEB-14		
Lab Sample ID:	MC45799-2	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/07/16
Method:	MADEP VPH REV 1.1	**Percent Solids:**	n/a
Project:	BMSMC, Building 5 Area, Puerto Rico		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	BD73518.D	1	05/09/16	AF	n/a	n/a	GBD3632
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	84%		70-130%
	2,3,4-Trifluorotoluene	105%		70-130%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	BPEB-14		
Lab Sample ID:	MC45799-2A	**Date Sampled:**	05/05/16
Matrix:	AQ - Equipment Blank	**Date Received:**	05/07/16
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	DE14082.D	1	05/13/16	TA	05/11/16	OP47446	GDE790
Run #2							

	Initial Volume	Final Volume
Run #1	920 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	76	ug/l	
	C9-C18 Aliphatics	ND	110	76	ug/l	
	C19-C36 Aliphatics	ND	110	76	ug/l	
	C11-C22 Aromatics	ND	110	76	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	82%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%
3386-33-2	1-Chlorooctadecane	65%		40-140%
580-13-2	2-Bromonaphthalene	81%		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

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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PAGE 1 OF 1

Bottle Order Control # MC45799
SGS Accutest Quote #
SGS Accutest Job # Got from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc.
Street Address: 2700 Westchester
City State Zip: Purchase NY
Project Contact: Terry Taylor
E-mail:
Phone #: 914 - 251-0400
Fax #:
Sampler(s) Name(s): N. Rivera, T. Taylor, D. Lindstrand
Phone #:

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)

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	Bleuflake	VMAVPH	BMAEPHR	LAB USE ONLY
-1	RA5-GWD		5/6/16	1400	TT	GW	5	5									X	X	
-2	BPEB-14		5/5/16	1530	TT	EB	5	5									X	X	
																			17A
																			3E

Turnaround Time (Business days)

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

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
LABEL VERIFICATION

Sample Custody must be documented below each time samples change possession, including courier delivery. 10:45

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	5/6/16	1 Fed EX	2	5/7/16	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 630	Intact / Not intact	Preserved where applicable / On Ice / Cooler Temp. 2.0 C

5.1 5

MC45799: Chain of Custody
Page 1 of 2

SGS Accutest Sample Receipt Summary

Job Number: MC45799 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 5/7/2016 10:45:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8099 6056 9251 0402

Cooler Temps (Initial/Adjusted): #1: (2/2);

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

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

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

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

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

Sample Integrity - Instructions	Y	or	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:	☐		☐	☑

Comments

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45799

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45799-1	Collected: 06-MAY-16 14:00 By: TT		Received: 07-MAY-16 By: NT			
RA5-GWD						
MC45799-1	MADEP VPH REV 1.1	09-MAY-16 12:46	AF			VMAVPHR
MC45799-2	Collected: 05-MAY-16 15:30 By: TT		Received: 07-MAY-16 By: NT			
BPEB-14						
MC45799-2	MADEP VPH REV 1.1	09-MAY-16 12:07	AF			VMAVPHR
MC45799-1A	Collected: 06-MAY-16 14:00 By: TT		Received: 07-MAY-16 By: NT			
RA5-GWD						
MC45799-1A	MADEP EPH REV 1.1	13-MAY-16 11:39	TA	11-MAY-16	PA	BMAEPHR
MC45799-2A	Collected: 05-MAY-16 15:30 By: TT		Received: 07-MAY-16 By: NT			
BPEB-14						
MC45799-2A	MADEP EPH REV 1.1	13-MAY-16 12:08	TA	11-MAY-16	PA	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 05/07/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45799-1.1	VOC Ref #3	Anthony Franciosa	05/09/16 08:52	Retrieve from Storage
MC45799-1.1	Anthony Franciosa	GCBD	05/09/16 08:52	Load on Instrument
MC45799-1.1	GCBD	Daniel Freedman	05/10/16 09:40	Unload from Instrument
MC45799-1.1	Daniel Freedman	VOC Ref #3	05/10/16 09:40	Return to Storage
MC45799-1.2	VOC Ref #3	Anthony Franciosa	05/09/16 08:52	Retrieve from Storage
MC45799-1.2	Anthony Franciosa	GCBD	05/09/16 08:52	Load on Instrument
MC45799-1.2	GCBD	Daniel Freedman	05/10/16 09:40	Unload from Instrument
MC45799-1.2	Daniel Freedman	VOC Ref #3	05/10/16 09:40	Return to Storage
MC45799-1.5	Walk In Ref #22	Ilir Capi	05/11/16 16:34	Retrieve from Storage
MC45799-2.1	VOC Ref #3	Anthony Franciosa	05/09/16 08:52	Retrieve from Storage
MC45799-2.1	Anthony Franciosa	GCBD	05/09/16 08:52	Load on Instrument
MC45799-2.1	GCBD	Daniel Freedman	05/10/16 09:40	Unload from Instrument
MC45799-2.1	Daniel Freedman	VOC Ref #3	05/10/16 09:40	Return to Storage
MC45799-2.5	Walk In Ref #22	Ilir Capi	05/11/16 16:34	Retrieve from 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: MC45799
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
GBD3632-MB	BD73514.D	1	05/09/16	AF	n/a	n/a	GBD3632

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

MC45799-1, MC45799-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	40	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	40	ug/l	
	C5- C8 Aliphatics	ND	50	40	ug/l	
	C9- C12 Aliphatics	ND	50	40	ug/l	

CAS No.	Surrogate Recoveries		Limits
	2,3,4-Trifluorotoluene	88%	70-130%
	2,3,4-Trifluorotoluene	113%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45799
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
GBD3632-BSP	BD73515.D	1	05/09/16	AF	n/a	n/a	GBD3632
GBD3632-BSD	BD73516.D	1	05/09/16	AF	n/a	n/a	GBD3632

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

MC45799-1, MC45799-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	144	96	143	95	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	123	82	138	92	11	70-130/25
	C9- C10 Aromatics (Unadj.)	50	44.5	89	44.2	88	1	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	90%	87%	70-130%
	2,3,4-Trifluorotoluene	114%	110%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45799
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
MC45799-1MS	BD73519.D	1	05/09/16	AF	n/a	n/a	GBD3632
MC45799-1MSD	BD73520.D	1	05/09/16	AF	n/a	n/a	GBD3632
MC45799-1	BD73518A.D	1	05/09/16	AF	n/a	n/a	GBD3632

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

MC45799-1, MC45799-2

CAS No.	Compound	MC45799-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	ND		350	350	100	350	348	100	1	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	473	118	400	476	119	1	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	136	91	150	138	92	1	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45799-1	Limits
	2,3,4-Trifluorotoluene	89%	88%	87%	70-130%
	2,3,4-Trifluorotoluene	111%	110%	110%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

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

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1 [a]	S1 [b]
MC45799-1	BD73518A.D	87	110
MC45799-2	BD73518.D	84	105
GBD3632-BSD	BD73516.D	87	110
GBD3632-BSP	BD73515.D	90	114
GBD3632-MB	BD73514.D	88	113
MC45799-1MS	BD73519.D	89	111
MC45799-1MSD	BD73520.D	88	110

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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3632-CC3572	**Injection Date:**	05/09/16
Lab File ID:	BD73513.D	**Injection Time:**	08:53
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	21.24	21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3632-MB	BD73514.D	05/09/16	09:32	21.24	21.24
GBD3632-BSP	BD73515.D	05/09/16	10:10	21.24	21.24
GBD3633-BSP	BD73515A.D	05/09/16	10:10		21.24
GBD3632-BSD	BD73516.D	05/09/16	10:49	21.24	21.24
GBD3633-BSD	BD73516A.D	05/09/16	10:49		21.24
GBD3633-MB	BD73517A.D	05/09/16	11:28		21.24
MC45799-2	BD73518.D	05/09/16	12:07	21.24	21.24
MC45799-1	BD73518A.D	05/09/16	12:46	21.24	21.24
MC45799-1MS	BD73519.D	05/09/16	13:25	21.24	21.24
MC45799-1MSD	BD73520.D	05/09/16	14:05	21.24	21.24

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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3633-CC3577	**Injection Date:**	05/09/16
Lab File ID:	BD73513A.D	**Injection Time:**	08:53
Instrument ID:	GCBD	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std		21.24

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GBD3632-MB	BD73514.D	05/09/16	09:32	21.24	21.24
GBD3632-BSP	BD73515.D	05/09/16	10:10	21.24	21.24
GBD3633-BSP	BD73515A.D	05/09/16	10:10		21.24
GBD3632-BSD	BD73516.D	05/09/16	10:49	21.24	21.24
GBD3633-BSD	BD73516A.D	05/09/16	10:49		21.24
GBD3633-MB	BD73517A.D	05/09/16	11:28		21.24
MC45799-2	BD73518.D	05/09/16	12:07	21.24	21.24
MC45799-1	BD73518A.D	05/09/16	12:46	21.24	21.24
MC45799-1MS	BD73519.D	05/09/16	13:25	21.24	21.24
MC45799-1MSD	BD73520.D	05/09/16	14:05	21.24	21.24

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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3577-ICC3577
Lab FileID: BD72684B.D

Response Factor Report GCBD

```
Method       : C:\msdchem\1\met...160219v8015gro.M (ChemStation Integrator)
Title        : v8015gro
Last Update  : Mon Feb 22 15:58:57 2016
Response via : Initial Calibration

Calibration Files
1   =bd72680b.d  2   =bd72681b.d  5   =bd72684b.d  4   =bd72683b.d
6   =bd72685b.d  3   =bd72682b.d  7   =bd72686b.d

   Compound             1     2     5     4     6     3     7     Avg   %RSD
---------------------------------------------------------------------------
1)s fluorobenzene     6.573 5.605 6.815 7.008 7.675 6.100 7.399 6.739 E5  10.69
2)s 2,3,4-trifluoroto 5.065 4.479 5.394 5.493 5.919 4.501 5.784 5.234 E5  11.03
3)h rt20/25           6.834 7.203 7.805 7.541 7.903 7.340 8.310 7.563 E5   6.48

Signal #2

 5)  fluorobenzene #2                                            0.000  -1.00
---------------------------------------------------------------------------
(#) = Out of Range

          bd160219v8015gro.M        Mon Feb 22 16:09:32 2016
```

Initial Calibration Summary

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3572-ICC3572
Lab FileID: BD72684.D

Response Factor Report GCBD

Method : C:\msdchem\1\methods\bd160219vph.M (ChemStation Integrator)
Title : vph nap linear regression inverse
Last Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680.d 2 =bd72681.d 4 =bd72683.d 3 =bd72682.d
5 =bd72684.d 9 =bd72688.d 6 =bd72685.d 8 =bd72687.d
7 =bd72686.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	%RSD
1) rt5.5-7											
	6.167				6.167					6.167 E5	0.00
2) rt7/10											
	6.167				6.167					6.167 E5	0.00
3) rt10/13											
	6.167				6.167					6.167 E5	0.00
4) fluorobenzene											
	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
5) rt13/16											
										0.000	-1.00
6) 2,3,4-trifluorotoluene											
	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
7) rt16/20											
										0.000	-1.00
8) rt20/25											
	8.002				8.002					8.002 E5	0.00
9) rt25/29											
										0.000	-1.00
10) decane											
	8.002				8.002					8.002 E5	0.00
11) butylcyclohexane											
	8.002				8.002					8.002 E5	0.00
12) 2,5-dibromotoluene											
										0.000	-1.00
Signal #2											
14) mtbe #2											
	1.368	1.460	1.667	1.610	1.593	1.466	1.570	1.600	1.536	1.541 E5	6.07
15) benzene #2											
	4.861	4.876	5.056	5.081	4.822	4.969	4.569	4.719	4.570	4.836 E5	3.90
16) fluorobenzene #2											
	3.079	3.091	3.220	3.214	3.077	3.733	3.886	3.554	3.680	3.393 E5	9.43
17) toluene #2											
	4.626	4.588	4.711	4.756	4.512	4.707	4.237	4.493	4.115	4.527 E5	4.86
18) 2,3,4-trifluorotoluene #2											
	1.932	1.869	1.891	1.909	1.814	2.067	2.170	1.877	2.188	1.969 E5	6.99
19) ethylbenzene #2											
	4.459	4.298	4.247	4.336	4.065	4.136	3.841	4.132	3.838	4.150 E5	5.12
20) m,p-xylene #2											
	5.131	5.050	5.113	5.152	4.929	5.039	4.682	5.068	4.695	4.984 E5	3.61
21) o-xylene #2											
	4.551	4.406	4.313	4.400	4.169	4.837	4.014	4.366	4.075	4.348 E5	5.78
22) 1,3,5-trimethylbenzene #2											
	6.721	6.794	6.567	6.734	6.343	7.129	6.606	6.779	6.720	6.710 E5	3.14

Initial Calibration Summary

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICC3572
Lab FileID: BD72684.D

```
23)  1,2,4-trimethylbenzene #2
           5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5    5.66
24)  naphthalene #2
           3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5   24.83
            ----- Linear regression -----  Coefficient =  0.9932
              Response Ratio = -203870.32475 + 364658.28656 *A

25)  c9-c10 arom as 1,2,4-tmb
           5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5    5.57
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219vph.M        Mon Feb 22 09:47:37 2016
```

6.6.2

6

Initial Calibration Verification

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3577-ICV3577
Lab FileID: BD72689B.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3577-650 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 16:00:06 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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 s	fluorobenzene	673.938	727.131 E3	-7.9	107	-0.02
2 s	2,3,4-trifluorotoluene	523.360	568.598 E3	-8.6	105	-0.02
3 h	rt20/25	756.255	818.713 E3	-8.3	105	0.00

Signal #2

Evaluate Continuing Calibration Report - Not Founds

Signal #2

5	fluorobenzene #2	0.000	0.000	0.0	0#	0.00

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

bd160219v8015gro.M Mon Feb 22 16:07:26 2016

Initial Calibration Verification

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3572-ICV3572
Lab FileID: BD72689.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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 :  25%  Max. R.T. Dev  0.50min
Max. RRF Dev :  25%     Max. Rel. Area : 120%
```

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
1	h	rt5.5-7	616.746	655.426 E3	-6.3	106	0.00
2	h	rt7/10	616.746	750.384 E3	-21.7	122#	0.00
3	h	rt10/13	616.746	731.652 E3	-18.6	119	0.00
4	s	fluorobenzene	680.404	711.439 E3	-4.6	104	0.00
6	s	2,3,4-trifluorotoluene	521.007	568.598 E3	-9.1	105	0.00
8	h	rt20/25	800.224	779.568 E3	2.6	97	0.00
10	h	decane	800.224	744.411 E3	7.0	93	0.00
11	h	butylcyclohexane	800.224	823.380 E3	-2.9	103	0.00
Signal #2							
14		mtbe #2	154.108	165.674 E3	-7.5	104	-0.01
15		benzene #2	483.603	498.327 E3	-3.0	103	0.00
16	s	fluorobenzene #2	339.253	315.976 E3	6.9	103	0.00
17		toluene #2	452.718	462.927 E3	-2.3	103	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	184.637 E3	6.2	102	0.00
19		ethylbenzene #2	415.011	415.024 E3	-0.0	102	0.00
20		m,p-xylene #2	498.443	499.938 E3	-0.3	101	0.00
21		o-xylene #2	434.786	421.153 E3	3.1	101	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	640.180 E3	4.6	101	0.00
23		1,2,4-trimethylbenzene #2	491.876	480.818 E3	2.2	100	0.00
24		naphthalene #2	323.046	398.944 E3	-23.5	105	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	479.578 E3	2.5	100	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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3572-ICV3572
Lab FileID: BD72689.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

bd160219vph.M Mon Feb 22 09:47:17 2016
```

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GBD3632-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73513.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 08:53:46
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:29:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	616.746	633.226 E3	-2.7	103	0.00
2	h	rt7/10	616.746	741.576 E3	-20.2	120	0.00
3	h	rt10/13	616.746	658.525 E3	-6.8	107	0.00
4	s	fluorobenzene	680.404	793.976 E3	-16.7	117	0.00
6	s	2,3,4-trifluorotoluene	521.007	617.410 E3	-18.5	114	0.00
8	h	rt20/25	800.224	784.620 E3	1.9	98	0.00
10	h	decane	800.224	826.095 E3	-3.2	103	0.00
11	h	butylcyclohexane	800.224	931.498 E3	-16.4	116	0.00
Signal #2							
14		mtbe #2	154.108	161.229 E3	-4.6	101	-0.01
15		benzene #2	483.603	487.880 E3	-0.9	101	0.00
16	s	fluorobenzene #2	339.253	316.872 E3	6.6	103	0.00
17		toluene #2	452.718	452.652 E3	0.0	100	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	181.549 E3	7.8	100	0.00
19		ethylbenzene #2	415.011	404.756 E3	2.5	100	0.00
20		m,p-xylene #2	498.443	492.857 E3	1.1	100	0.00
21		o-xylene #2	434.786	417.007 E3	4.1	100	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	598.504 E3	10.8	94	0.00
23		1,2,4-trimethylbenzene #2	491.876	467.134 E3	5.0	98	0.00
24		naphthalene #2	323.046	380.307 E3	-17.7	100	0.01
25	h	c9-c10 arom as 1,2,4-tmb	491.650	467.415 E3	4.9	98	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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GBD3632-CC3572
Lab FileID: BD73513.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

bd160509vph.M Tue May 10 09:30:53 2016
```

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GBD3633-CC3577
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73513A.D
Project: BMSMC, Building 5 Area, Puerto Rico

```
                              Evaluate Continuing Calibration Report

  Data Path : C:\msdchem\1\data\BD160509\
  Data File : bd73513a.d
  Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
  Acq On    : 09-May-16, 08:53:46
  Operator  : tonyf
  Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
  Misc      : gc26222,gbd3633,,,,5,1
  ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

  Integration File signal 1: EVENTS.E
  Integration File signal 2: EVENTS2.E
  Quant Time: May 09 09:30:06 2016
  Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
  Quant Title  : v8015gro
  QLast Update : Mon Feb 22 15:58:57 2016
  Response via : Initial 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 s   fluorobenzene               673.938 793.976 E3  -17.8   117  -0.02
  2 s   2,3,4-trifluorotoluene      523.360 617.410 E3  -18.0   114  -0.01
  3 h   rt20/25                     756.255 876.494 E3  -15.9   112   0.00

  Signal #2


                        Evaluate Continuing Calibration Report - Not Founds


  Signal #2

  5     fluorobenzene #2              0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160509v8015gro.M Mon May 09 12:16:51 2016
```

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GBD3632-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73521.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:44:55
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,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: May 09 15:23:43 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	616.746	549.044 E3	11.0	89	0.00
2	h	rt7/10	616.746	644.836 E3	-4.6	105	0.00
3	h	rt10/13	616.746	589.325 E3	4.4	96	0.00
4	s	fluorobenzene	680.404	698.942 E3	-2.7	103	0.00
6	s	2,3,4-trifluorotoluene	521.007	535.970 E3	-2.9	99	0.00
8	h	rt20/25	800.224	662.135 E3	17.3	83	0.00
10	h	decane	800.224	637.274 E3	20.4	80	0.00
11	h	butylcyclohexane	800.224	734.088 E3	8.3	92	0.00
Signal #2							
14		mtbe #2	154.108	149.207 E3	3.2	94	-0.01
15		benzene #2	483.603	436.955 E3	9.6	91	0.00
16	s	fluorobenzene #2	339.253	286.458 E3	15.6	93	0.00
17		toluene #2	452.718	410.815 E3	9.3	91	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	163.469 E3	17.0	90	0.00
19		ethylbenzene #2	415.011	363.390 E3	12.4	89	0.00
20		m,p-xylene #2	498.443	438.378 E3	12.1	89	0.00
21		o-xylene #2	434.786	371.120 E3	14.6	89	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	532.934 E3	20.6	84	0.00
23		1,2,4-trimethylbenzene #2	491.876	417.585 E3	15.1	87	0.00
24		naphthalene #2	323.046	377.238 E3	-16.8	99	0.01
25	h	c9-c10 arom as 1,2,4-tmb	491.650	416.858 E3	15.2	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: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3632-CC3572
Lab FileID: BD73521.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

bd160509vph.M Mon May 09 15:23:59 2016
```

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GBD3633-CC3577
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73521A.D
Project: BMSMC, Building 5 Area, Puerto Rico

```
                              Evaluate Continuing Calibration Report

  Data Path : C:\msdchem\1\data\BD160509\
  Data File : bd73521a.d
  Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
  Acq On    : 09-May-16, 14:44:55
  Operator  : tonyf
  Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
  Misc      : gc26222,gbd3633,,,,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: May 09 15:22:02 2016
  Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
  Quant Title  : v8015gro
  QLast Update : Mon Feb 22 15:58:57 2016
  Response via : Initial 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 s   fluorobenzene               673.938 698.942 E3   -3.7   103  -0.02
  2 s   2,3,4-trifluorotoluene      523.360 535.970 E3   -2.4    99  -0.01
  3 h   rt20/25                     756.255 754.586 E3    0.2    97   0.00

  Signal #2


                        Evaluate Continuing Calibration Report - Not Founds


  Signal #2

  5     fluorobenzene #2              0.000   0.000       0.0     0#  0.00
 ---------------------------------------------------------------------------

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

bd160509v8015gro.M Mon May 09 15:22:16 2016
```

GC Volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:41:10 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.425	35337857	51.937	ppb	
Spiked Amount 50.000		Recovery = 103.87%			
6) s 2,3,4-trifluorotoluene	21.241	28699948	55.086	ppb	
Spiked Amount 50.000		Recovery = 110.17%			
16) s fluorobenzene #2	16.424	14266894	42.054	ppb	
Spiked Amount 50.000		Recovery = 84.11%			
18) s 2,3,4-trifluorotoluen...	21.241	8606565	43.720	ppb	
Spiked Amount 50.000		Recovery = 87.44%			
Target Compounds					
1) h rt5.5-7	7.470	2353836	3.817	ppb	m
2) h rt7/10	9.920	5404709	8.763	ppb	m
3) h rt10/13	15.200	6388632	10.359	ppb	m
8) h rt20/25	22.840	22377891	27.965	ppb	m
14) mtbe #2	10.719f	319123	2.071	ppb	m
15) benzene #2	15.927	571325	1.181	ppb	m
17) toluene #2	20.211	127837	0.282	ppb	m
19) ethylbenzene #2	23.161	472756	1.139	ppb	
20) m,p-xylene #2	23.319	381319	0.765	ppb	
21) o-xylene #2	24.036	214505	0.493	ppb	
23) 1,2,4-trimethylbenzen...	25.758	285266	0.580	ppb	m
24) naphthalene #2	28.766f	90776	0.808	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	9434573	19.190	ppb	m

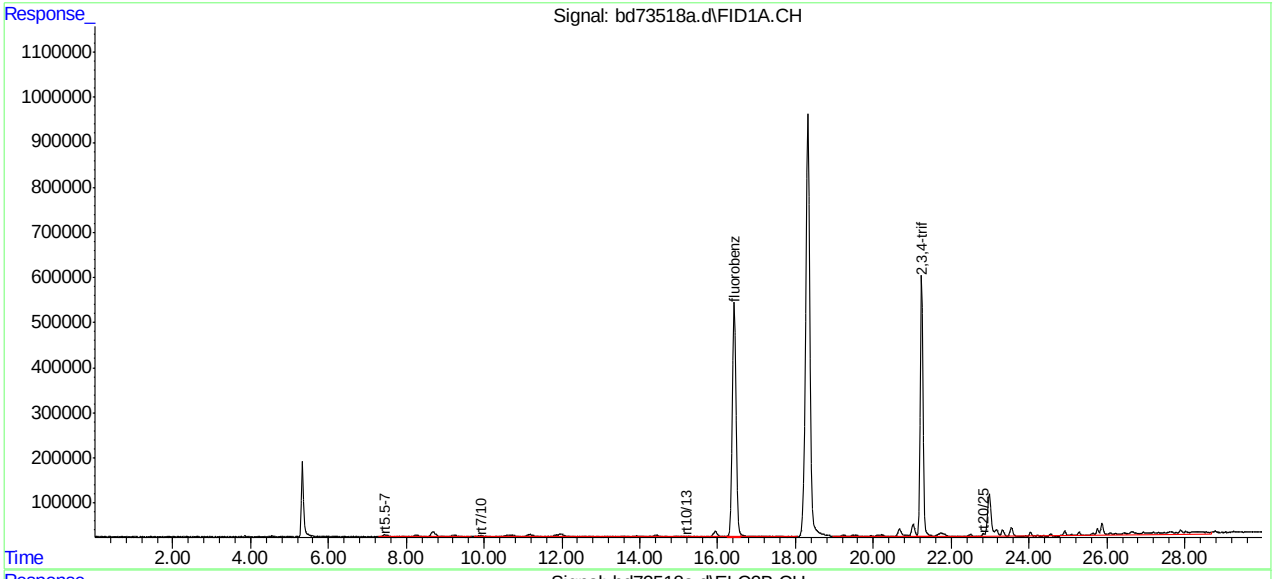
(f)=RT Delta > 1/2 Window (m)=manual int.

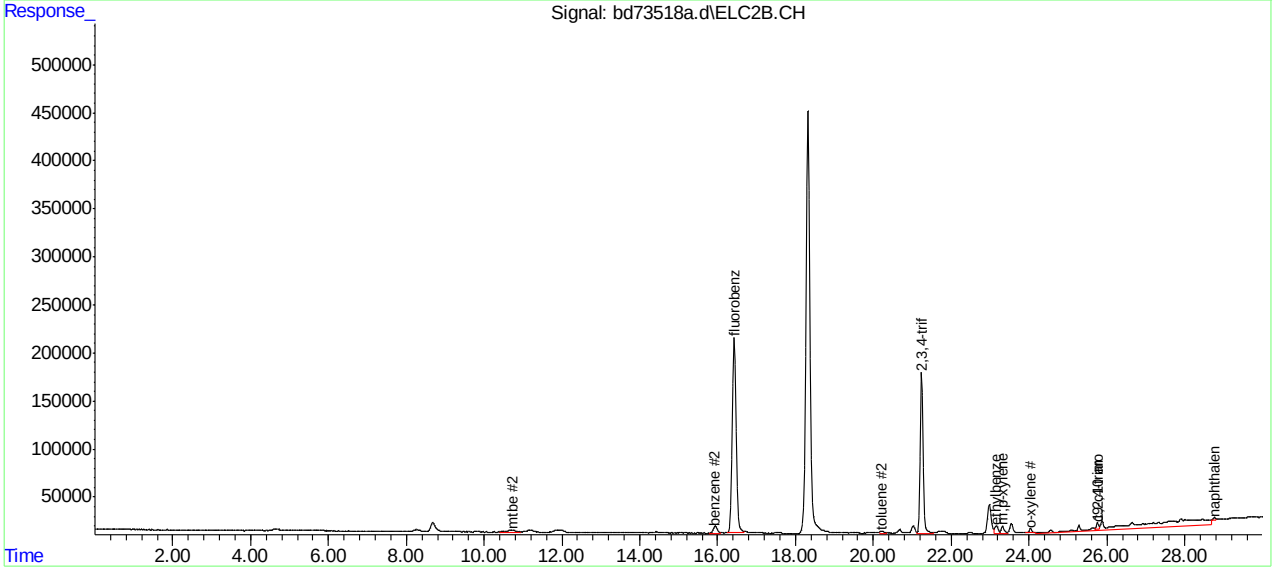
Quantitation Report (QT Reviewed)

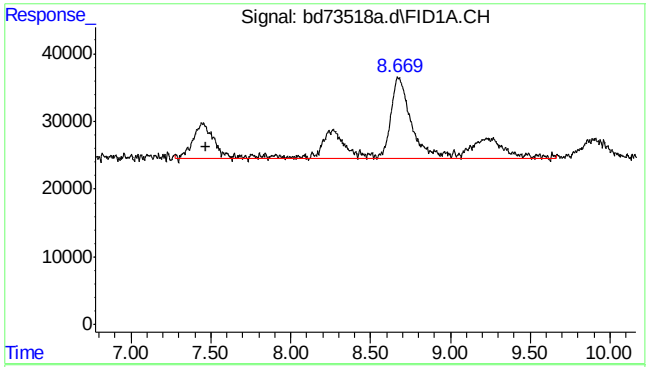
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 13:41:10 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

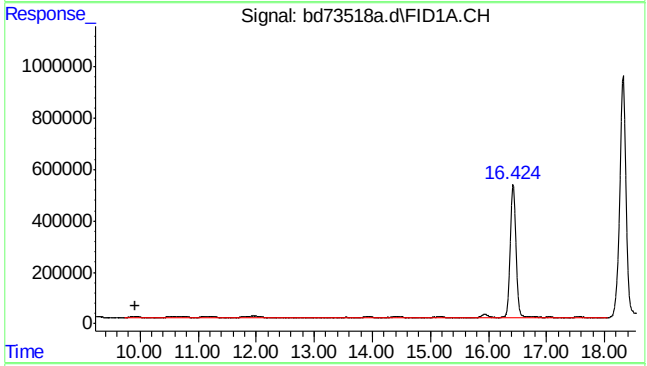






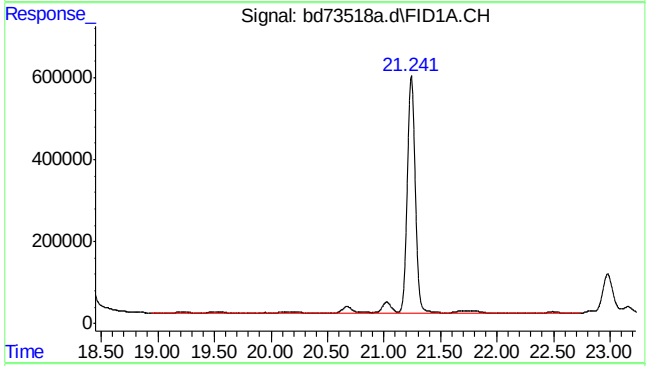
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2353836
Conc: 3.82 ppb m



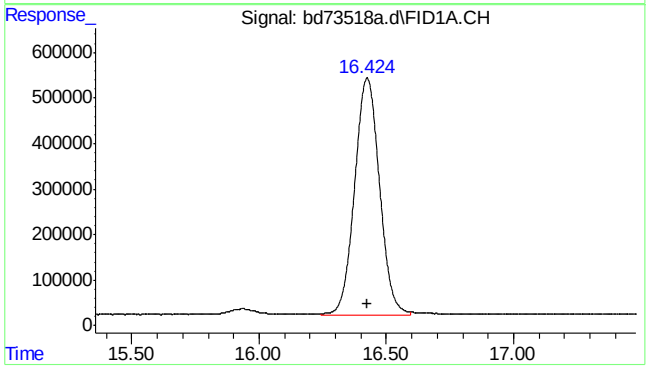
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 5404709
Conc: 8.76 ppb m



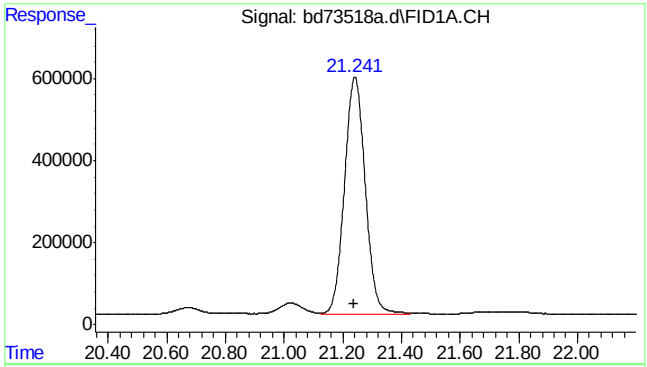
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 6388632
Conc: 10.36 ppb m



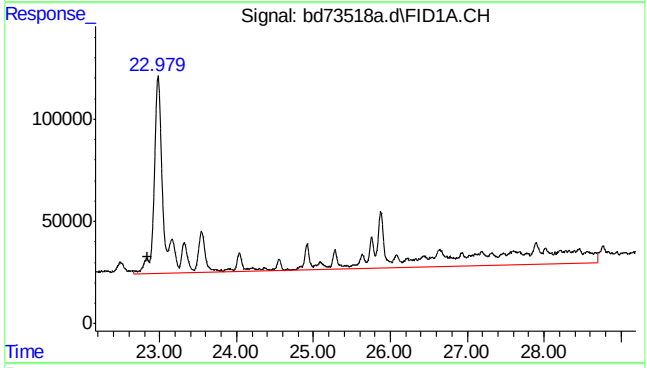
#4 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 35337857
Conc: 51.94 ppb



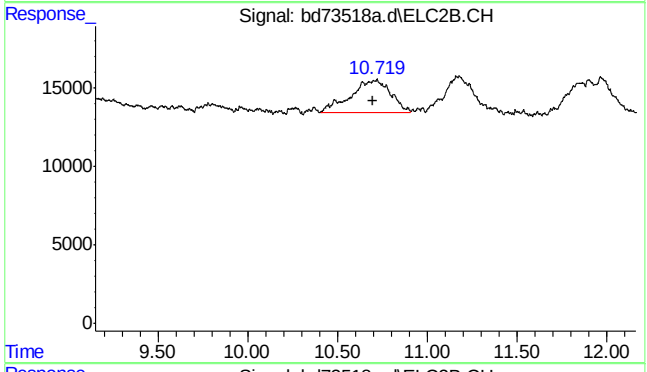
#6 2,3,4-trifluorotoluene

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 28699948
Conc: 55.09 ppb



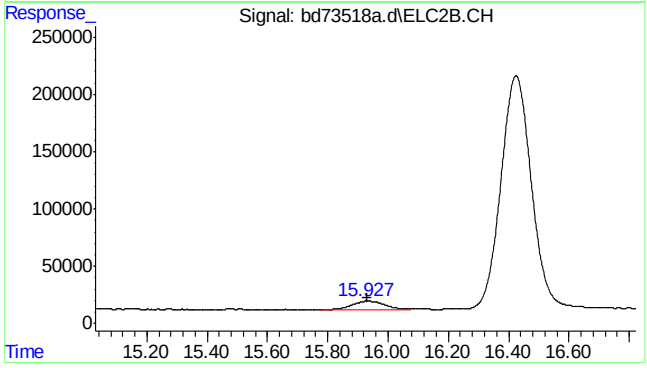
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 22377891
Conc: 27.96 ppb m



#14 mtbe #2

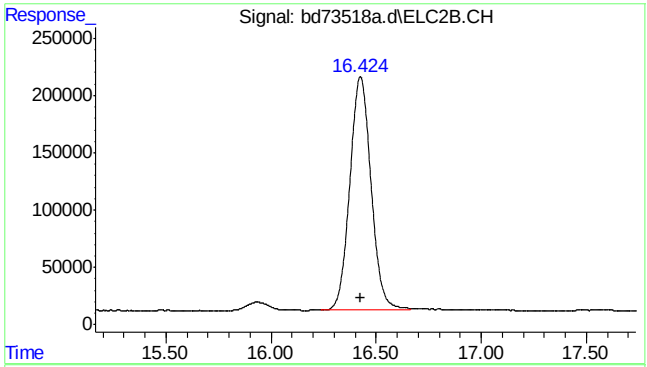
R.T.: 10.719 min
Delta R.T.: 0.023 min
Response: 319123
Conc: 2.07 ppb m



#15 benzene #2

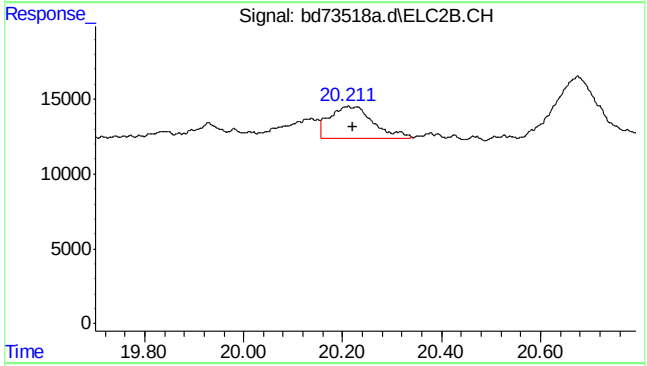
R.T.: 15.927 min
Delta R.T.: -0.005 min
Response: 571325
Conc: 1.18 ppb m

SGS ACCUTEST MC45799



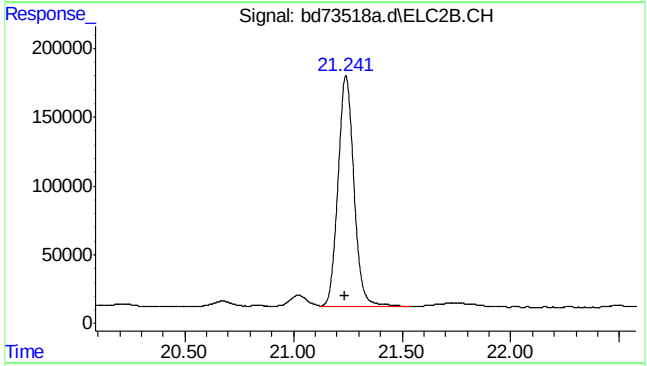
#16 fluorobenzene #2

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 14266894
Conc: 42.05 ppb



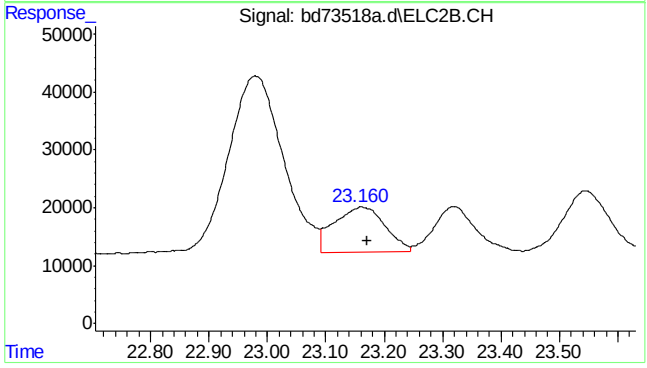
#17 toluene #2

R.T.: 20.211 min
Delta R.T.: -0.010 min
Response: 127837
Conc: 0.28 ppb m



#18 2,3,4-trifluorotoluene #2

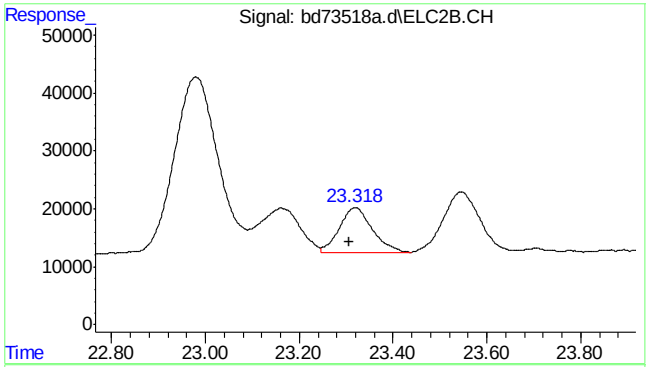
R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8606565
Conc: 43.72 ppb



#19 ethylbenzene #2

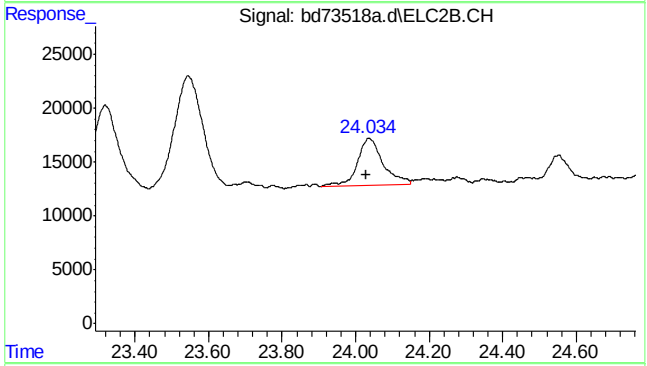
R.T.: 23.161 min
Delta R.T.: -0.011 min
Response: 472756
Conc: 1.14 ppb

SGS ACCUTEST MC45799



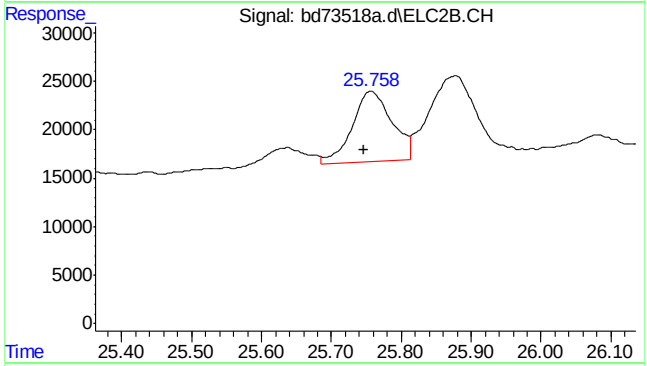
#20 m,p-xylene #2

R.T.: 23.319 min
Delta R.T.: 0.012 min
Response: 381319
Conc: 0.77 ppb



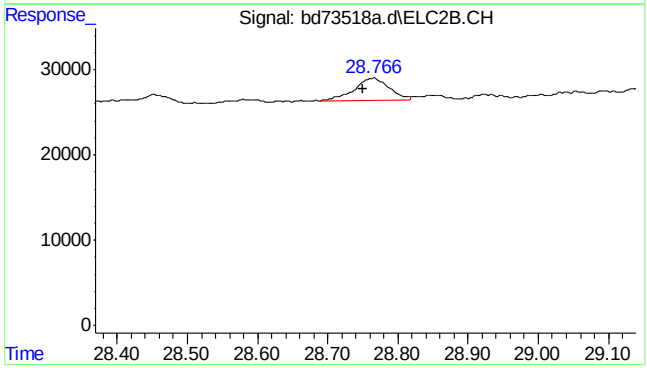
#21 o-xylene #2

R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 214505
Conc: 0.49 ppb



#23 1,2,4-trimethylbenzene #2

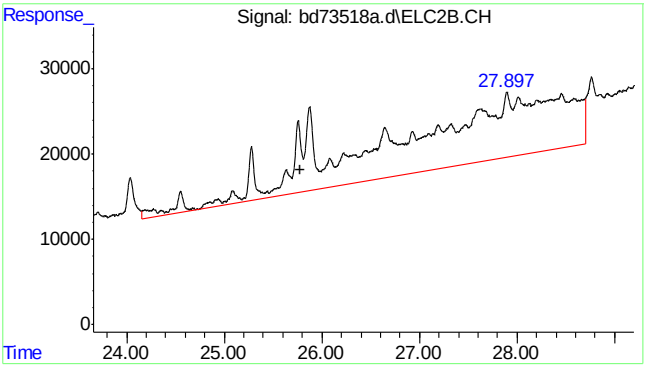
R.T.: 25.758 min
Delta R.T.: 0.012 min
Response: 285266
Conc: 0.58 ppb m



#24 naphthalene #2

R.T.: 28.766 min
Delta R.T.: 0.016 min
Response: 90776
Conc: 0.81 ppb m

SGS ACCUTEST MC45799



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 9434573
Conc: 19.19 ppb m

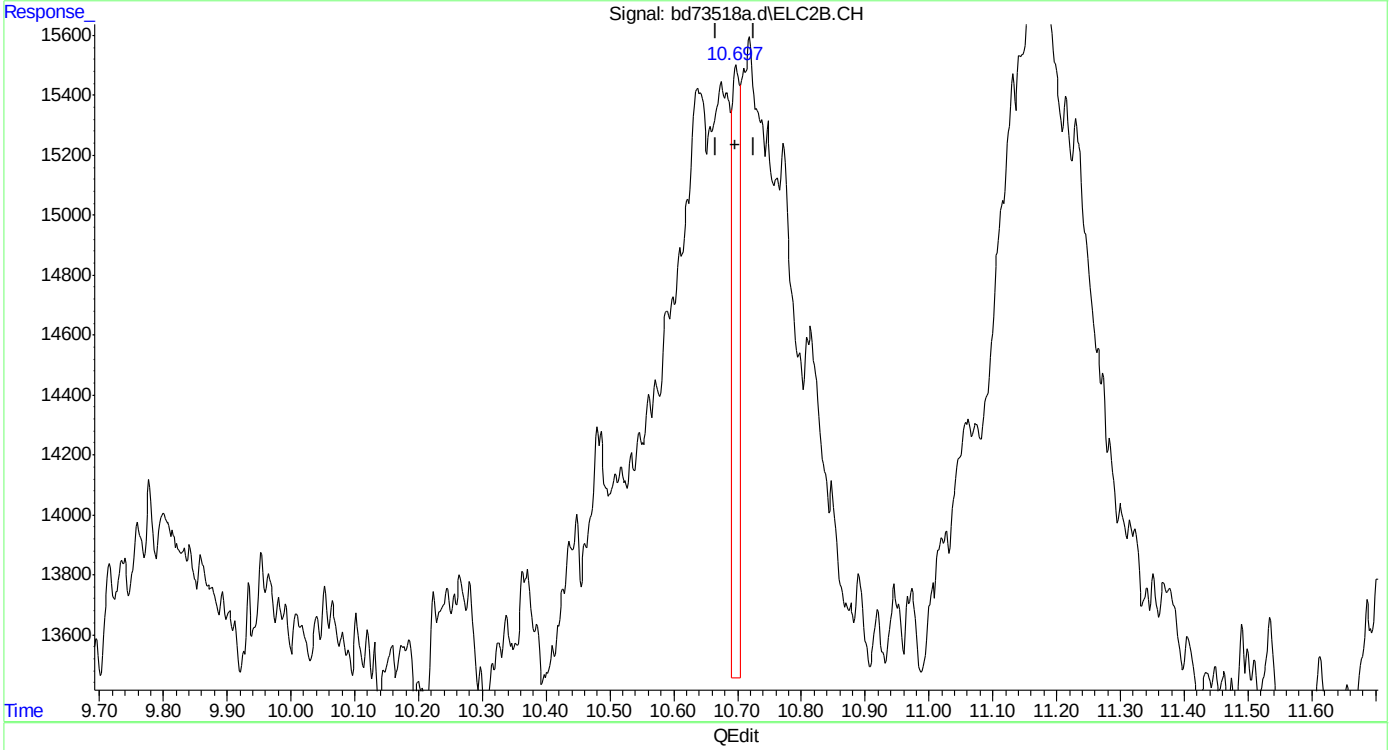
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.698min 0.102 ppb
response 15713

(+) = Expected Retention Time

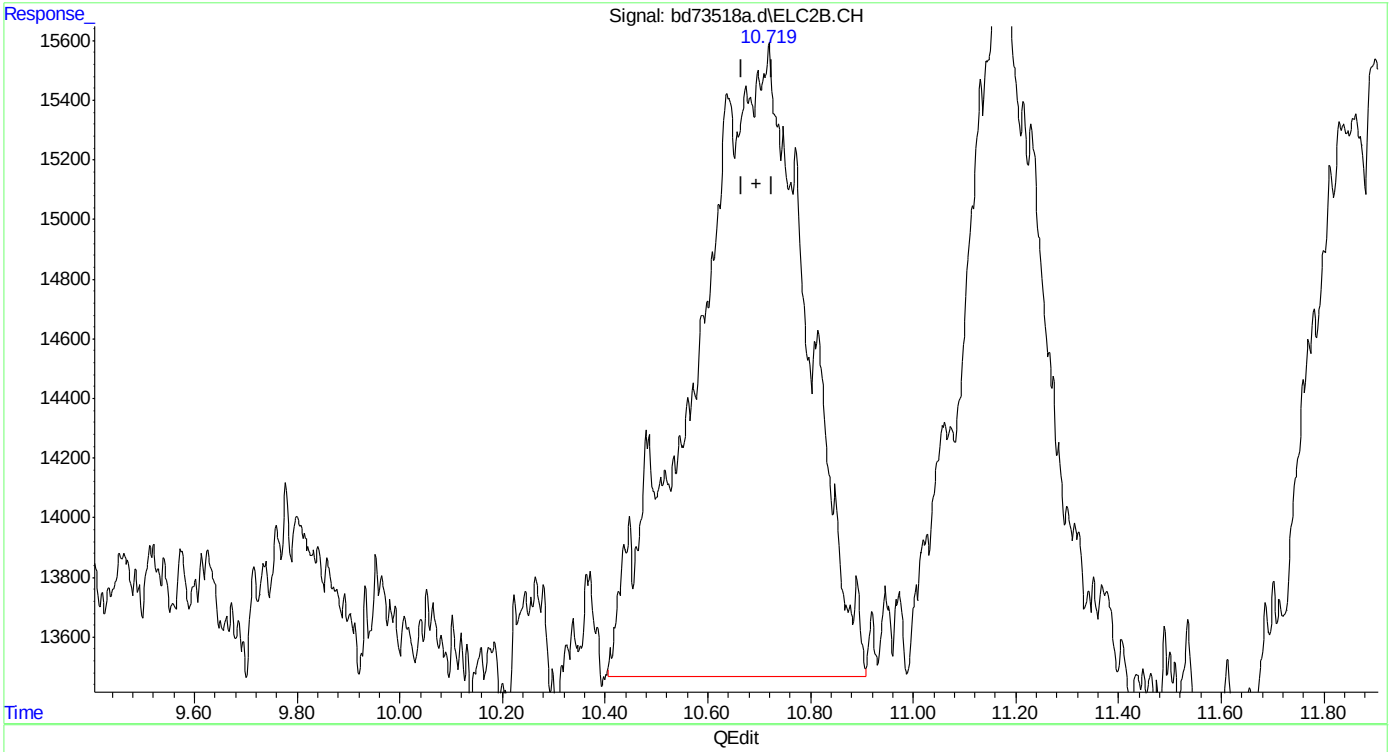
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.719min 2.071 ppb m
response 319123

(+) = Expected Retention Time

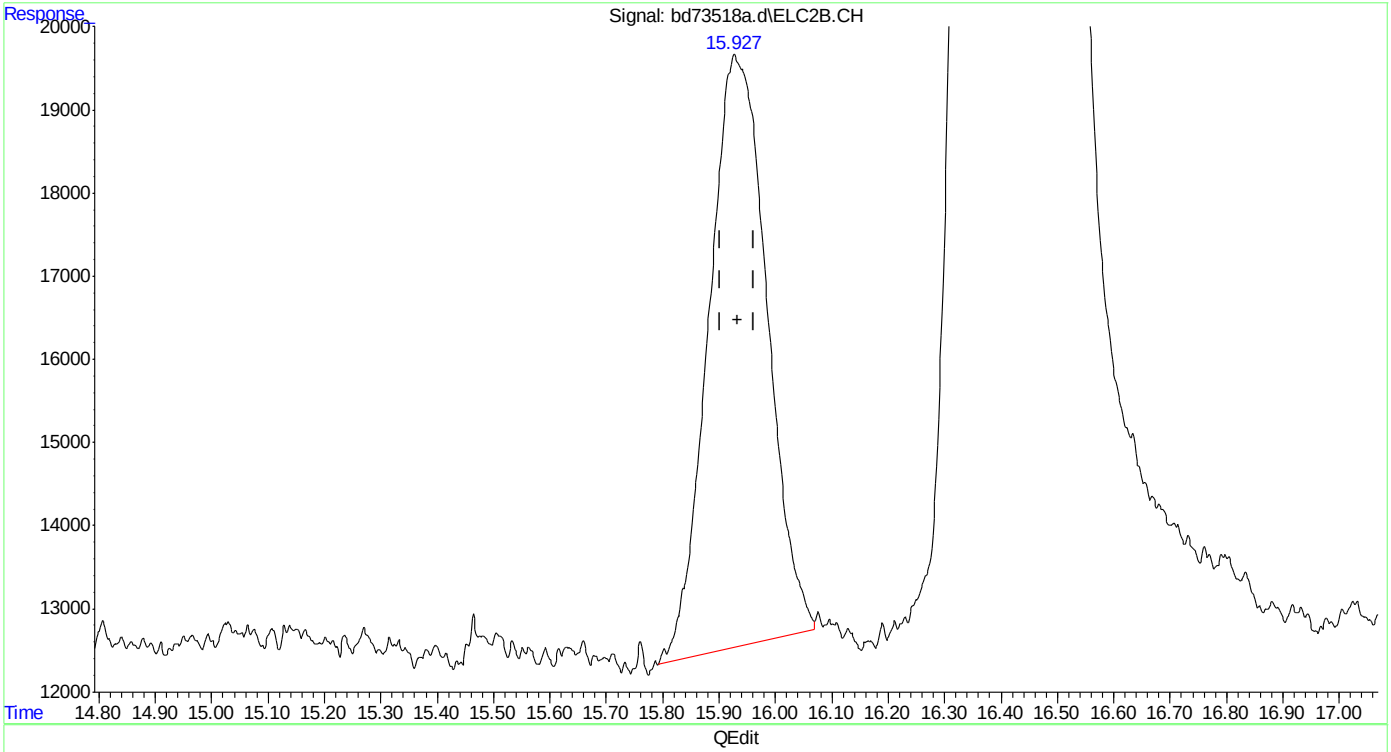
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
15.927min 1.058 ppb
response 511859

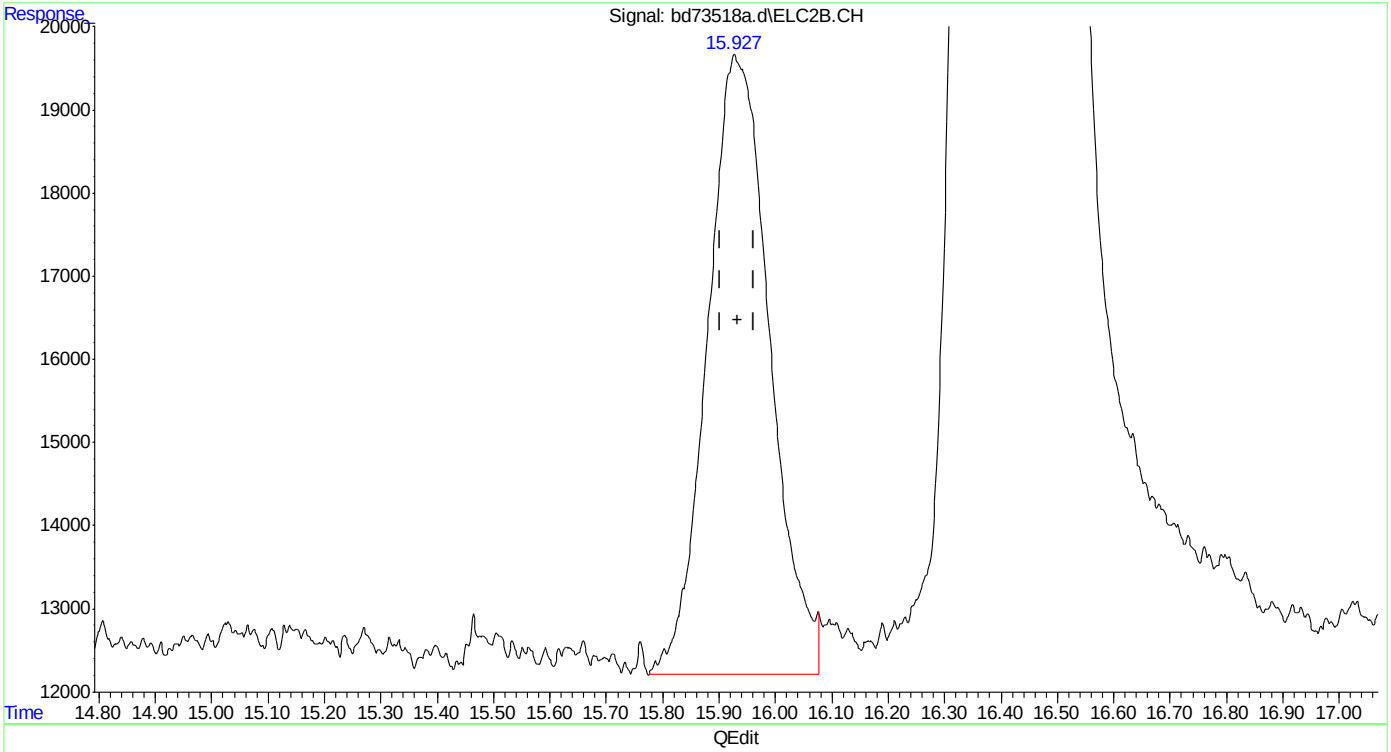
(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:20:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
15.927min 1.181 ppb m
response 571325

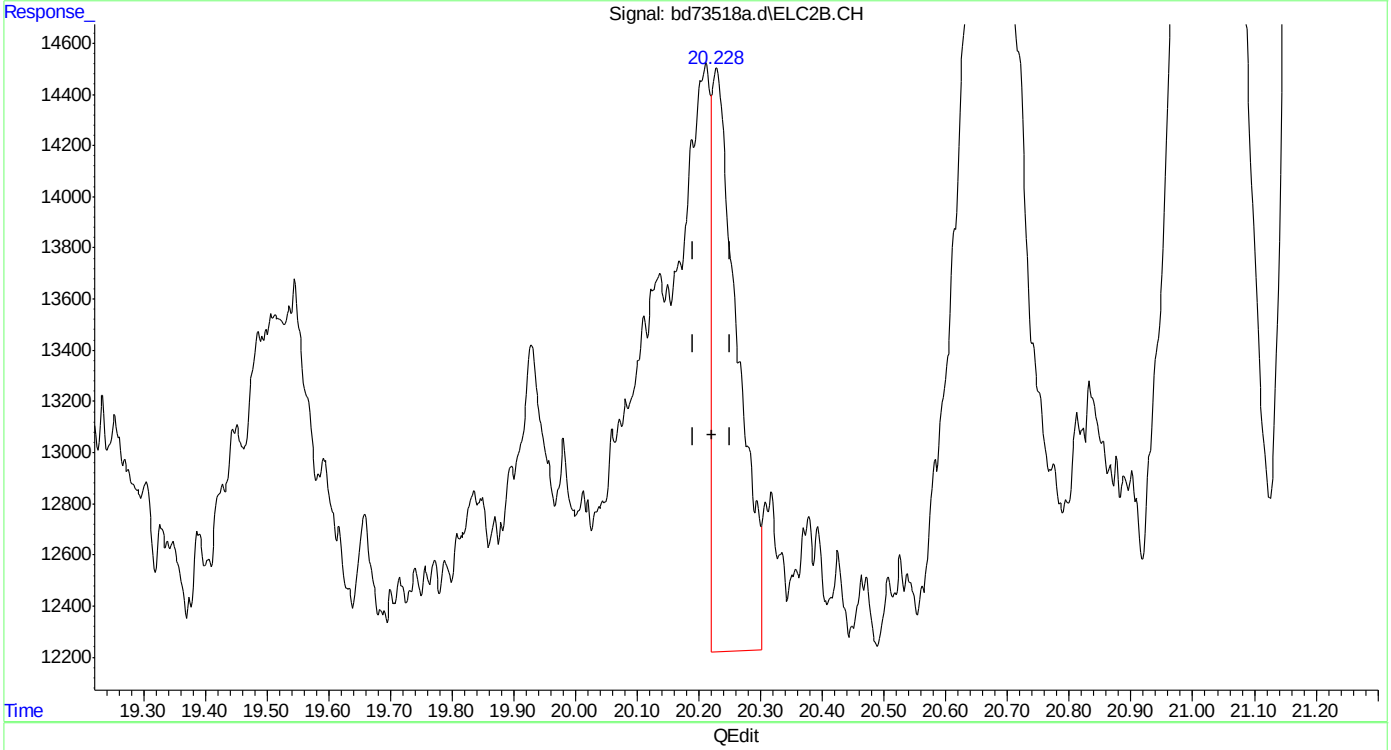
(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:20:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
20.229min 0.145 ppb
response 65634

(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:20:36 2016

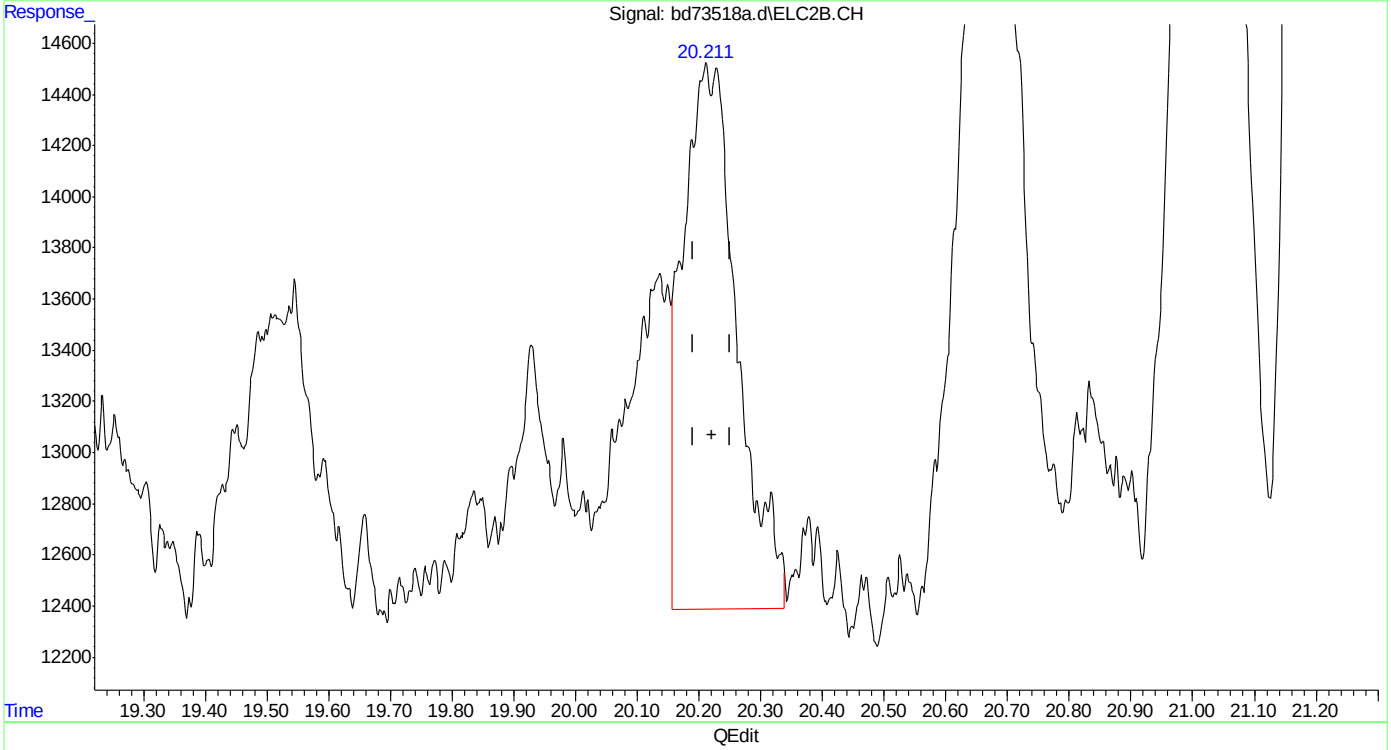
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
20.211min 0.282 ppb m
response 127837

(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:20:49 2016

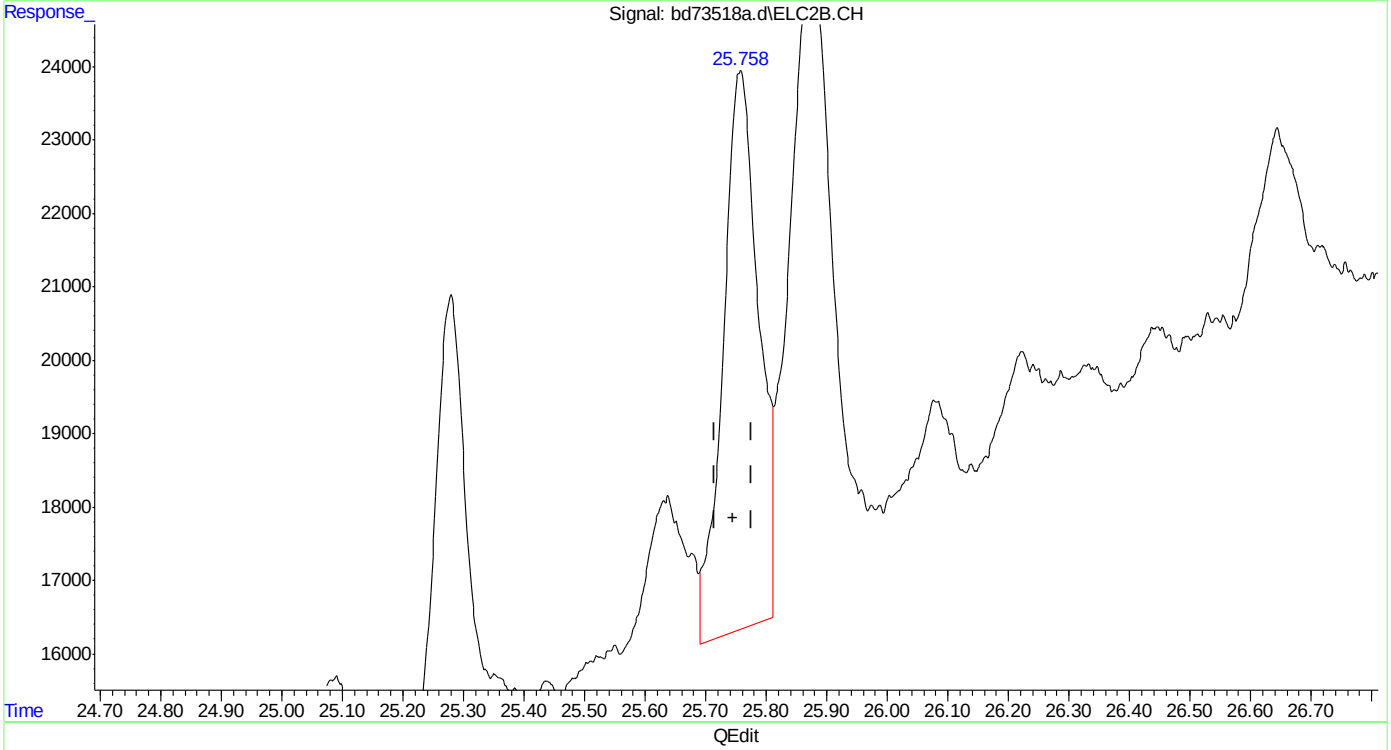
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.757min 0.630 ppb
response 310044

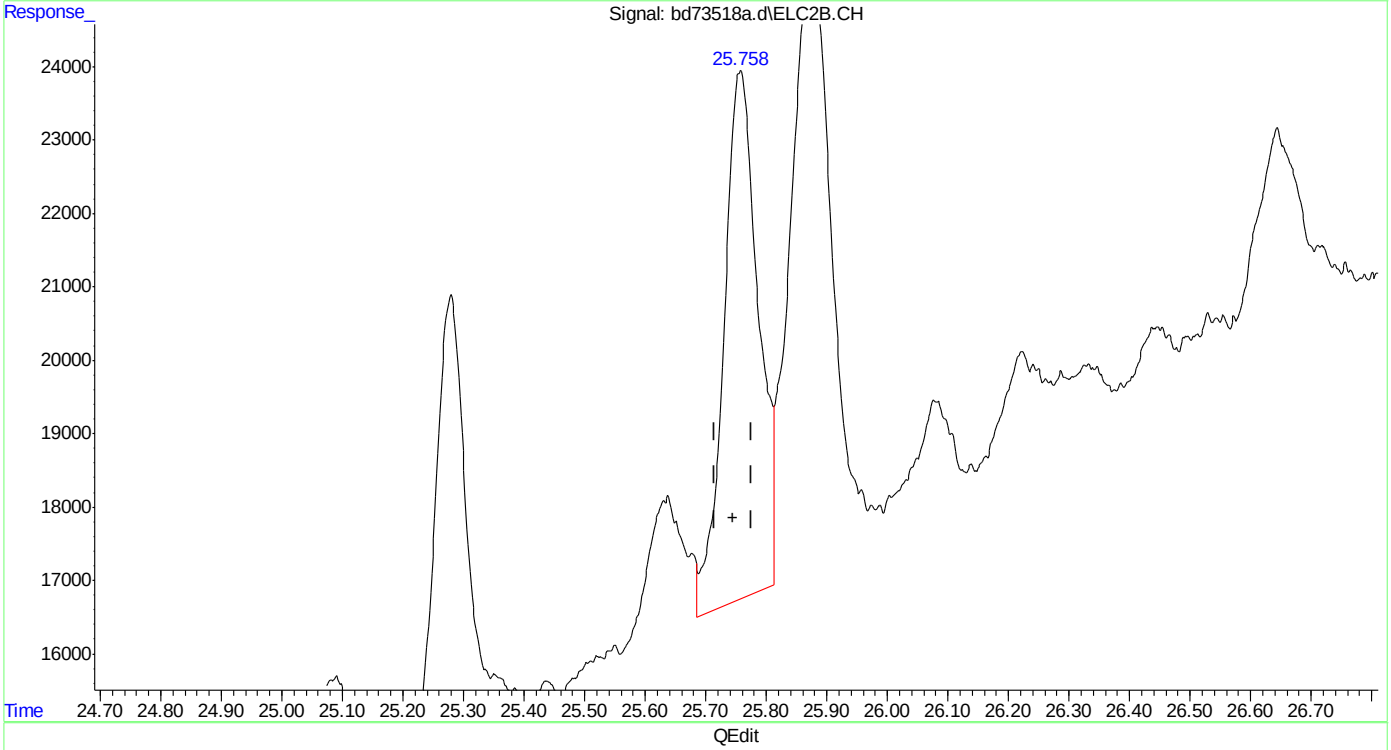
(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:21:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.758min 0.580 ppb m
response 285266

(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:21:09 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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Quant Time: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.764min 1.162 ppb
response 219966

(+) = Expected Retention Time
bd160509vph.M Mon May 09 13:21:13 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518a.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:46:25
Operator : tonyf
Sample : mc45799-1,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 13:19:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.766min 0.808 ppb m
response 90776

(+) = Expected Retention Time

SGS ACCUTEST MC45799

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:56:41 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.427	33573117	49.343	ppb	
Spiked Amount 50.000		Recovery =	98.69%		
6) s 2,3,4-trifluorotoluene	21.243	27302510	52.403	ppb	
Spiked Amount 50.000		Recovery =	104.81%		
16) s fluorobenzene #2	16.427	13746080	40.519	ppb	
Spiked Amount 50.000		Recovery =	81.04%		
18) s 2,3,4-trifluorotoluen...	21.243	8253742	41.928	ppb	
Spiked Amount 50.000		Recovery =	83.86%		
Target Compounds					
1) h rt5.5-7	7.470	1069016	1.733	ppb	m
2) h rt7/10	9.920	652657	1.058	ppb	m
3) h rt10/13	15.200	2146754	3.481	ppb	m
8) h rt20/25	22.840	9396635	11.743	ppb	
24) naphthalene #2	28.771f	41631	0.673	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	6952605	14.141	ppb	m

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

7.1.2

7

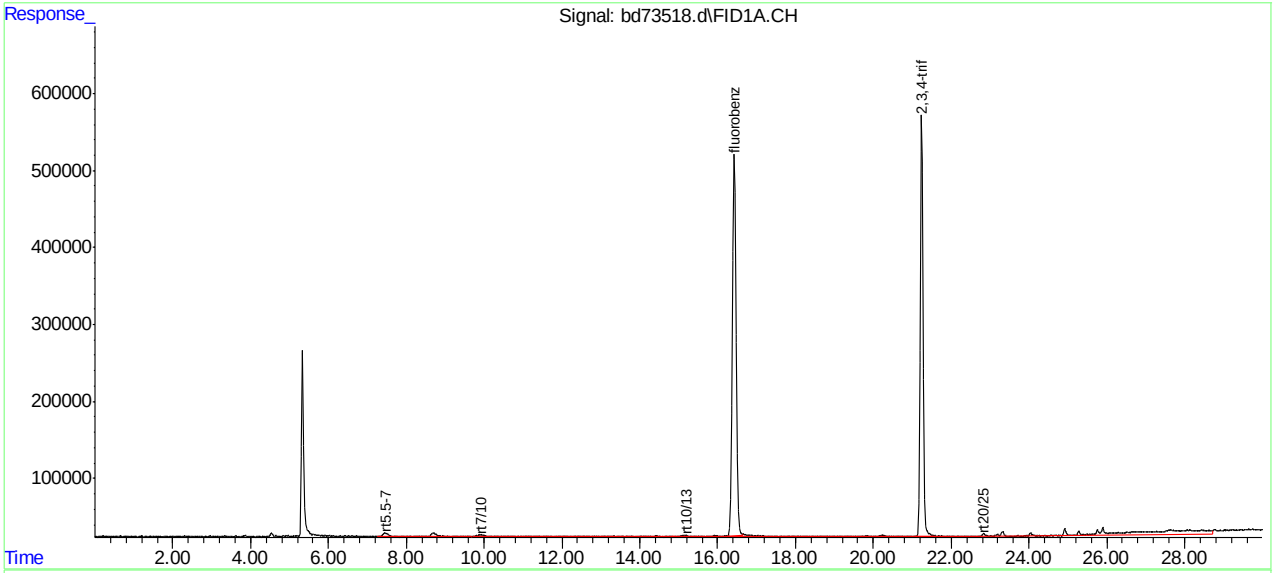
SGS ACCUTEST MC45799

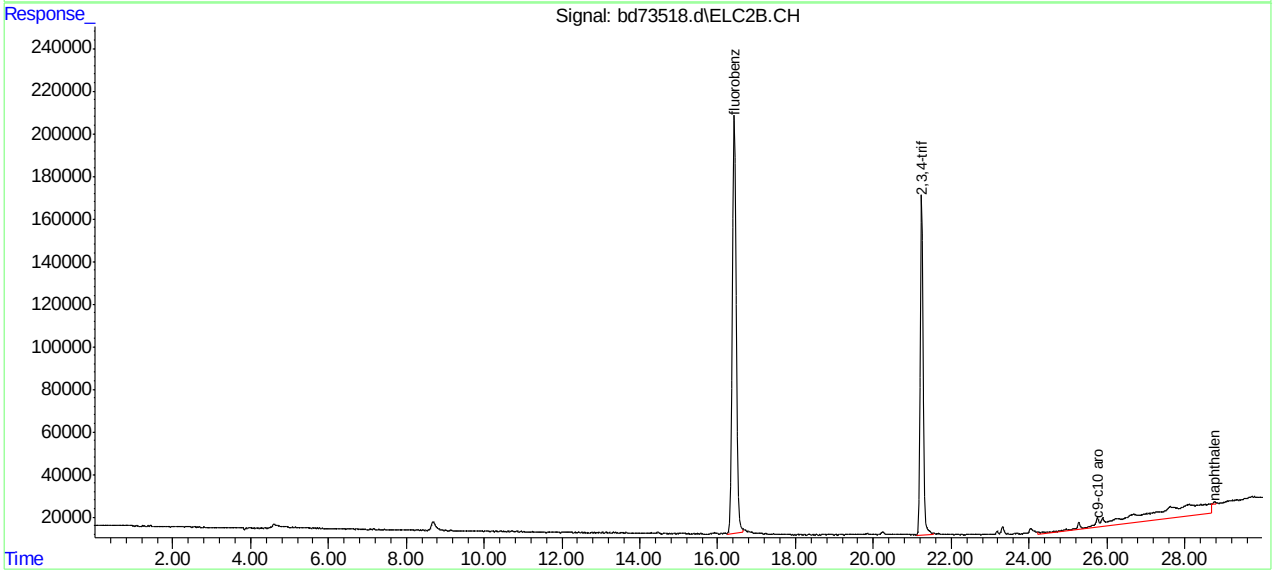
Quantitation Report (QT Reviewed)

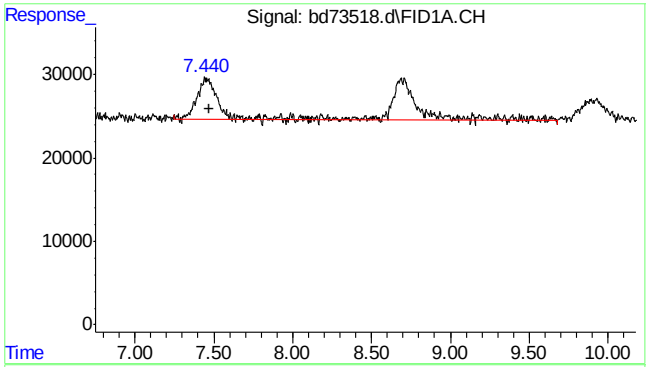
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 12:56:41 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

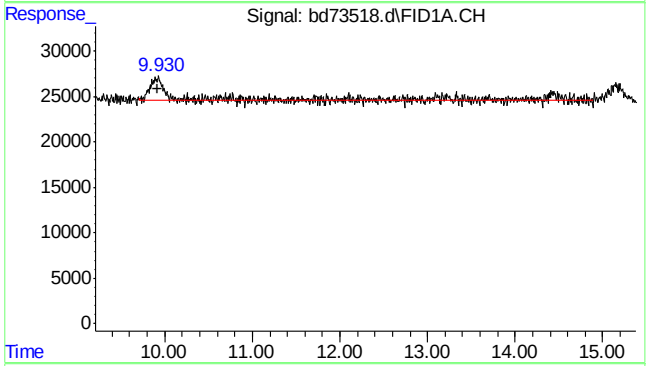






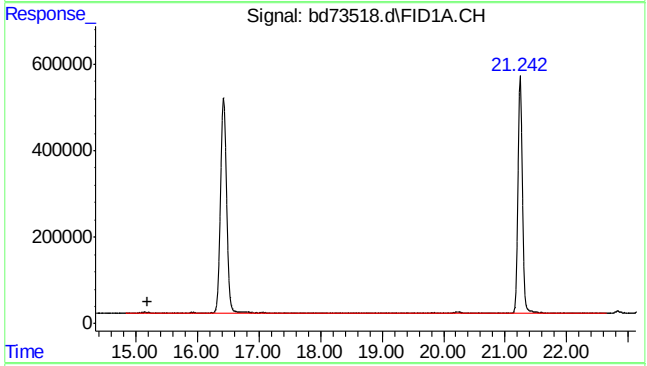
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1069016
Conc: 1.73 ppb m



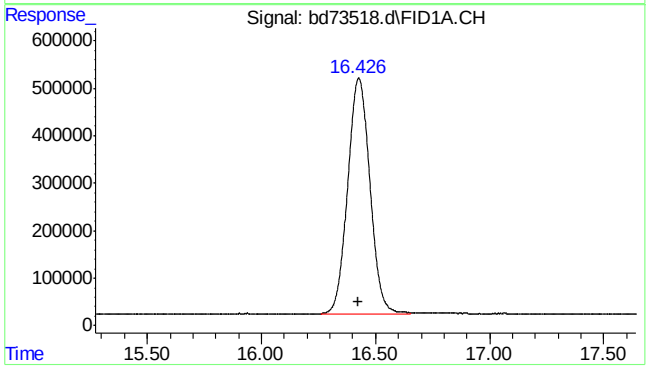
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 652657
Conc: 1.06 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 2146754
Conc: 3.48 ppb m



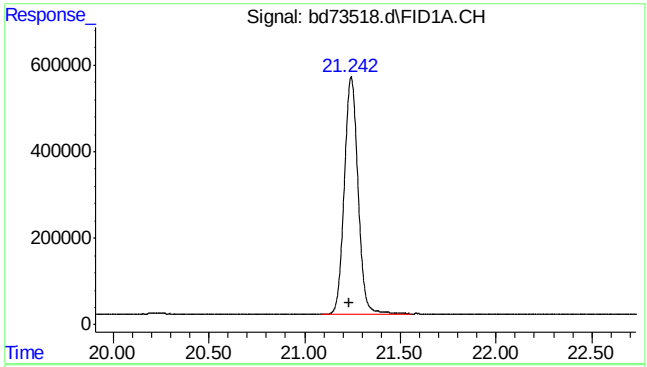
#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33573117
Conc: 49.34 ppb

7.1.2

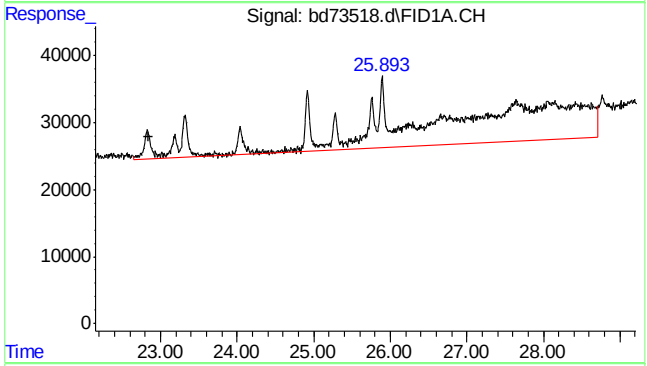
7

SGS ACCUTEST MC45799



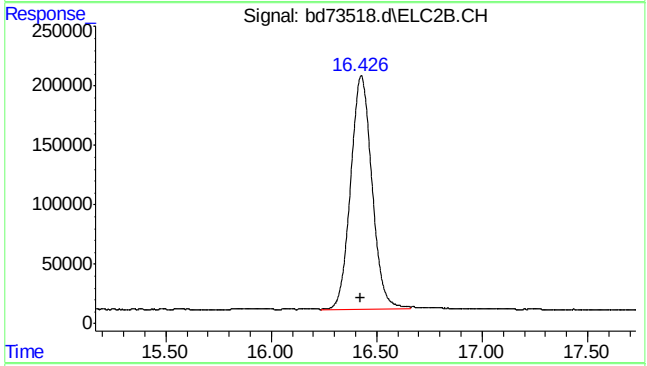
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 27302510
Conc: 52.40 ppb



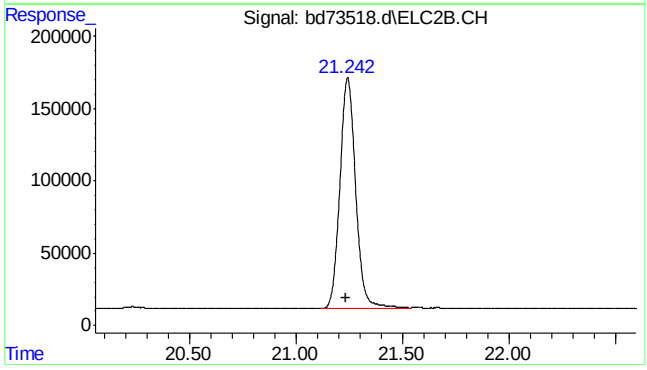
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 9396635
Conc: 11.74 ppb



#16 fluorobenzene #2

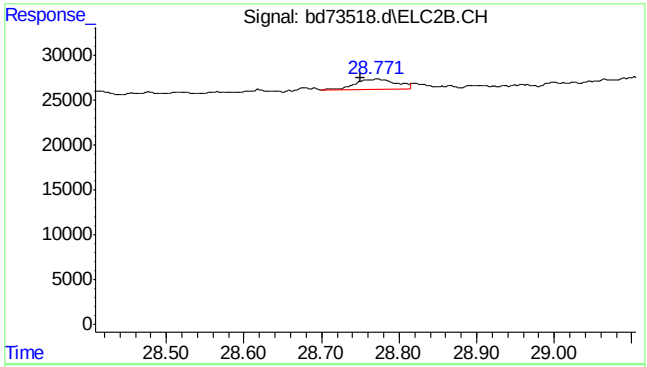
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 13746080
Conc: 40.52 ppb



#18 2,3,4-trifluorotoluene #2

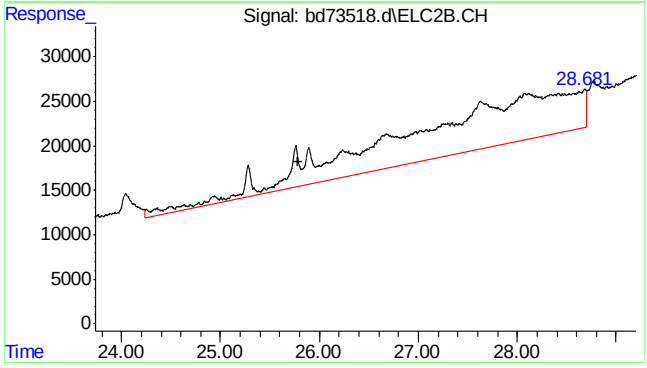
R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8253742
Conc: 41.93 ppb

SGS ACCUTEST MC45799



#24 naphthalene #2

R.T.: 28.771 min
Delta R.T.: 0.021 min
Response: 41631
Conc: 0.67 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 6952605
Conc: 14.14 ppb m

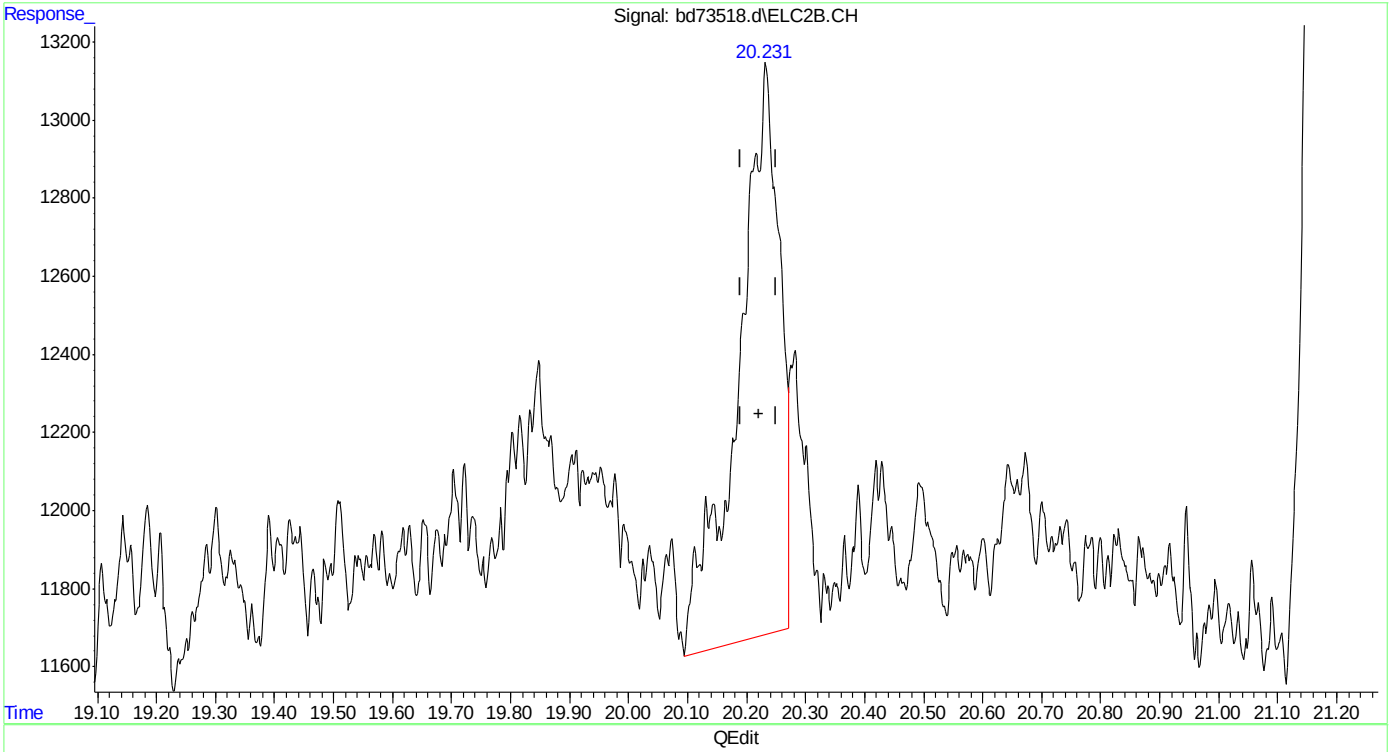
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
20.233min 0.157 ppb
response 71088

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:55:48 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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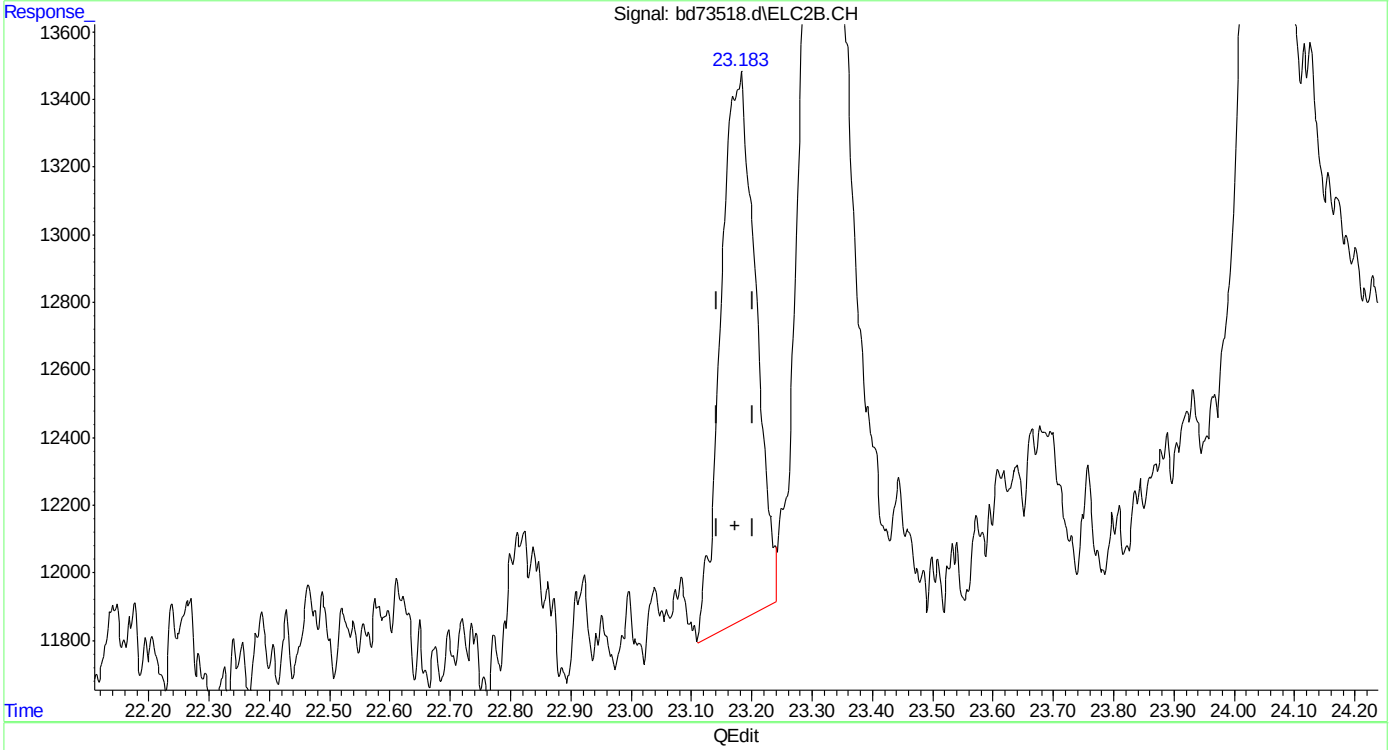
Quant Time: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(19) ethylbenzene #2
23.182min 0.156 ppb
response 64883

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:55:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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Response via : Initial Calibration
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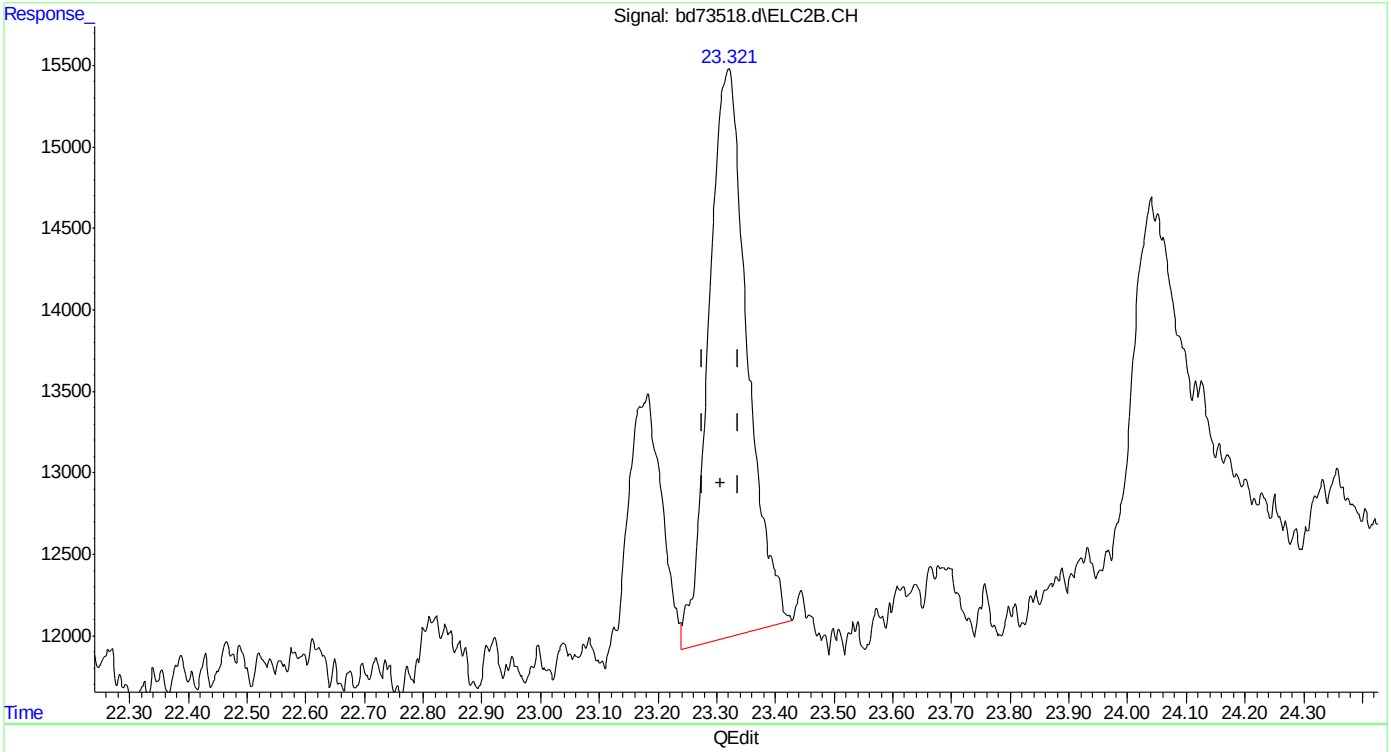
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



(20) m,p-xylene #2
23.321min 0.320 ppb
response 159572

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:55:56 2016

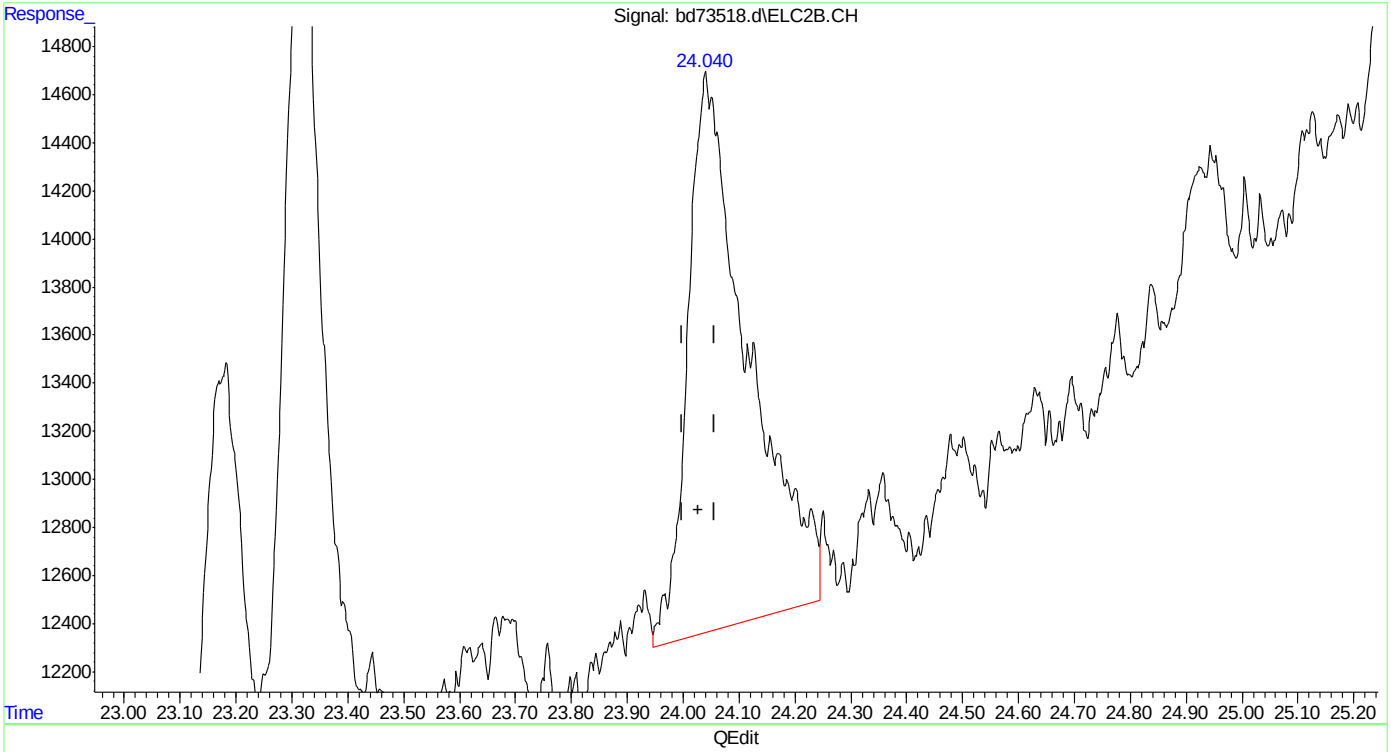
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.040min 0.400 ppb
response 173708

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:55:59 2016

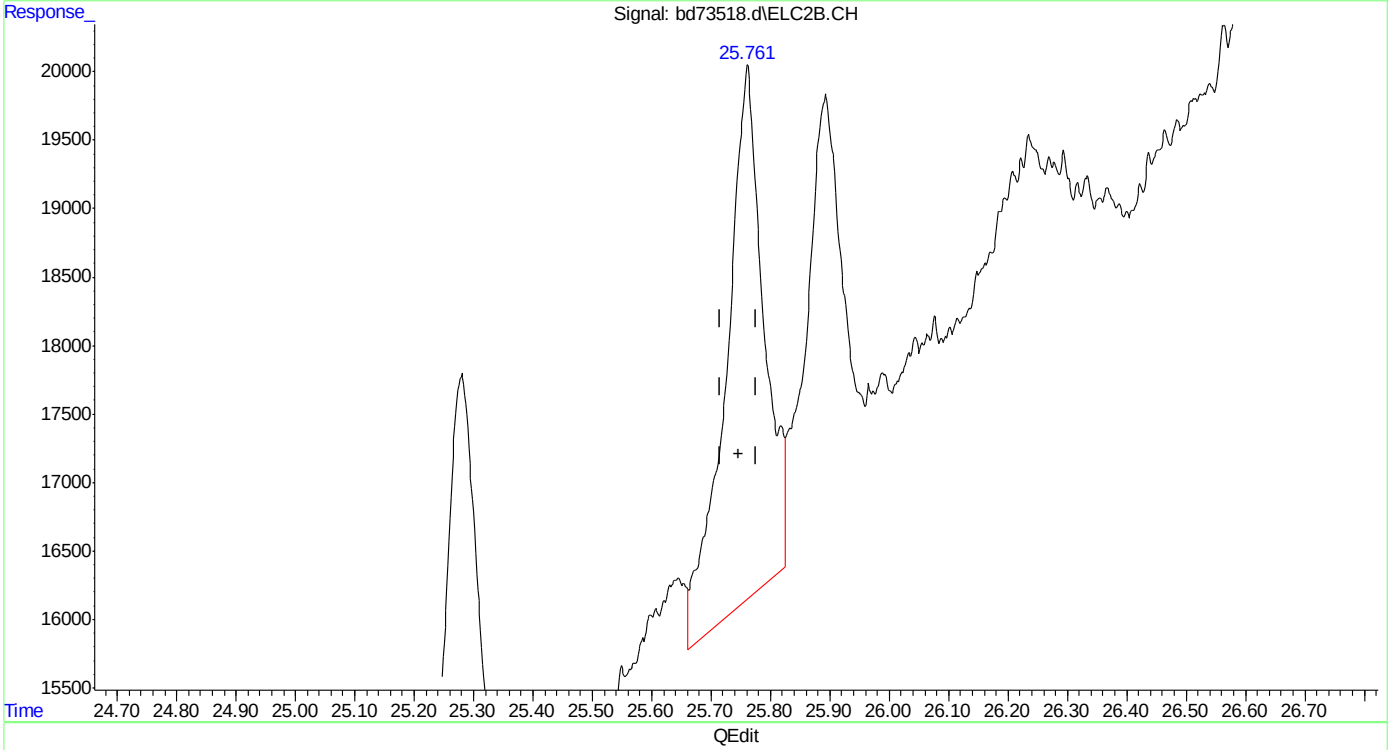
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.761min 0.352 ppb
response 172911

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:56:21 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.772min 0.707 ppb
response 53785

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:56:25 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73518.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 12:07:13
Operator : tonyf
Sample : mc45799-2,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 12:55:01 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.771min 0.673 ppb m
response 41631

(+) = Expected Retention Time
bd160509vph.M Mon May 09 12:56:36 2016

SGS ACCUTEST MC45799

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/13/16 16:42

Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.428	35696311	52.463 ppb
Spiked Amount 50.000		Recovery	= 104.93%
6) s 2,3,4-trifluorotoluene	21.245	29376224	56.384 ppb
Spiked Amount 50.000		Recovery	= 112.77%
16) s fluorobenzene #2	16.428	14339485	42.268 ppb
Spiked Amount 50.000		Recovery	= 84.54%
18) s 2,3,4-trifluorotoluen...	21.244	8704424	44.217 ppb
Spiked Amount 50.000		Recovery	= 88.43%
Target Compounds			
1) h rt5.5-7	7.470	2783126	4.513 ppb
2) h rt7/10	9.920	3660079	5.935 ppb
3) h rt10/13	15.200	5351004	8.676 ppb
8) h rt20/25	22.840	15049372	18.806 ppb
10) h decane	24.930	1925260	2.406 ppb
11) h butylcyclohexane	25.908	1474753	1.843 ppb
15) benzene #2	15.942	32374	0.067 ppb
17) toluene #2	20.238f	150739	0.333 ppb
19) ethylbenzene #2	23.183	207095	0.499 ppb
20) m,p-xylene #2	23.318	492321	0.988 ppb
21) o-xylene #2	24.042	277865	0.639 ppb
22) t 1,3,5-trimethylbenzen...	25.281	359429	0.536 ppb
23) 1,2,4-trimethylbenzen...	25.759	364154	0.740 ppb
24) naphthalene #2	28.769f	158755	0.994 ppb
25) h c9-c10 arom as 1,2,4-tmb	25.777	11337110	23.059 ppb

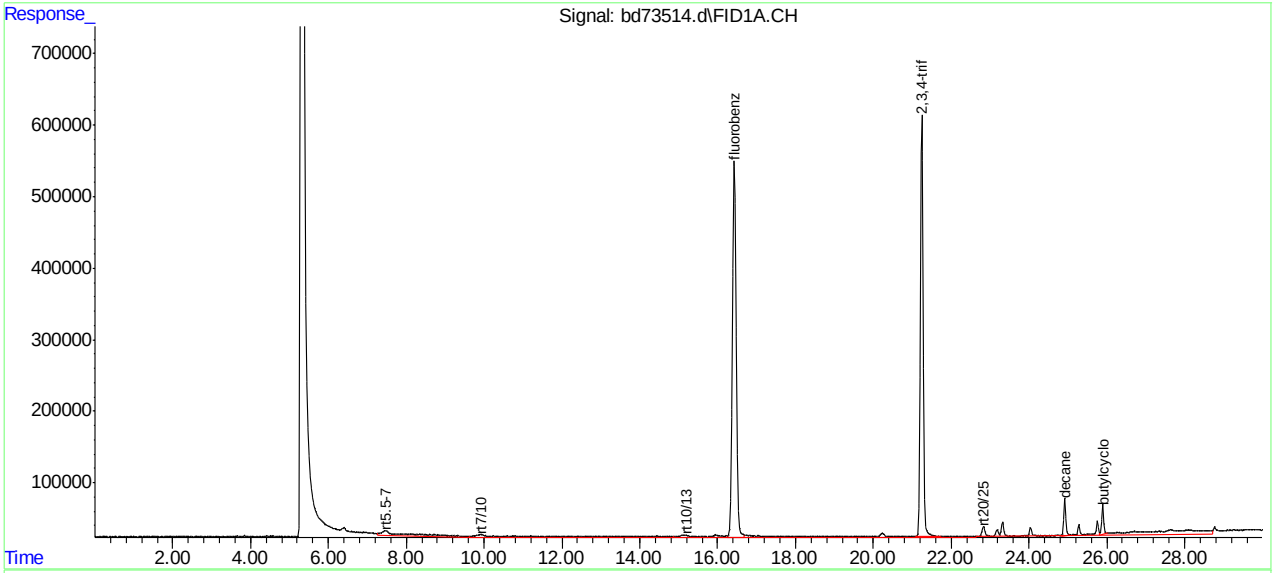
(f)=RT Delta > 1/2 Window (m)=manual int.

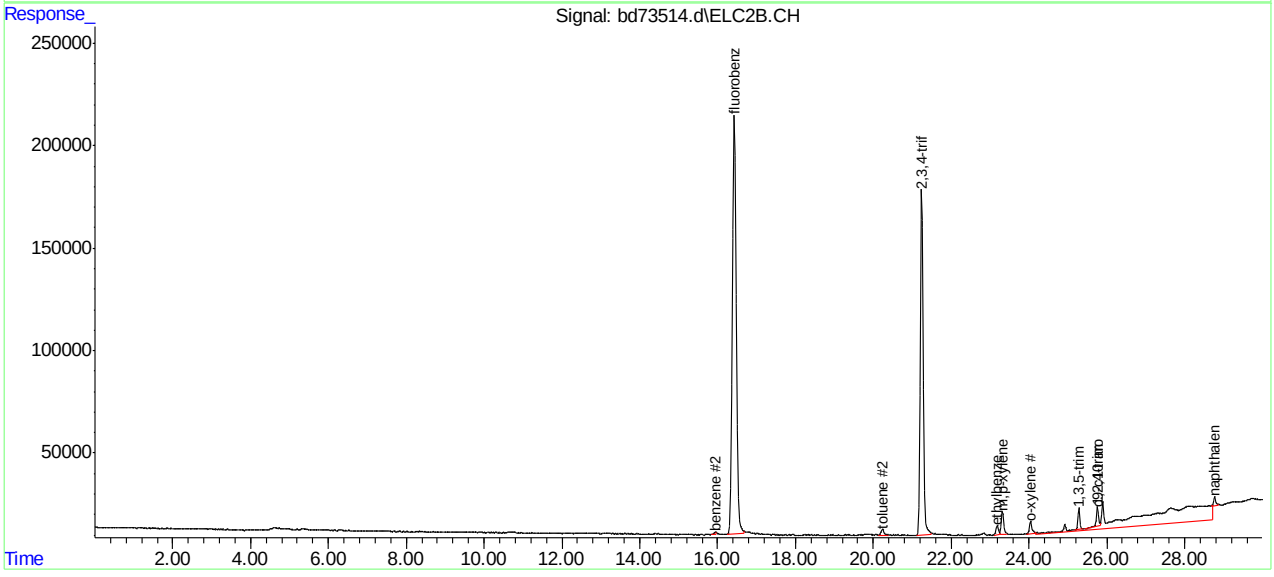
Quantitation Report (Not Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

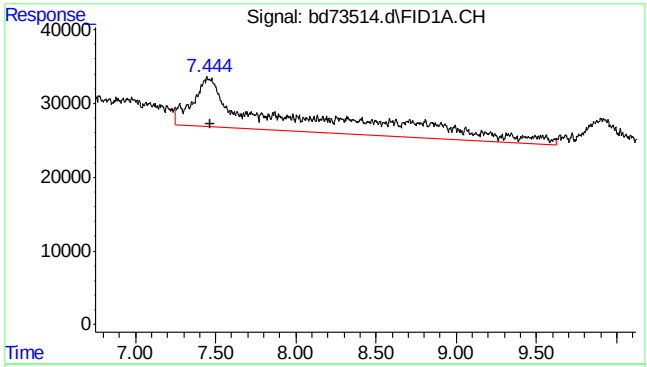
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



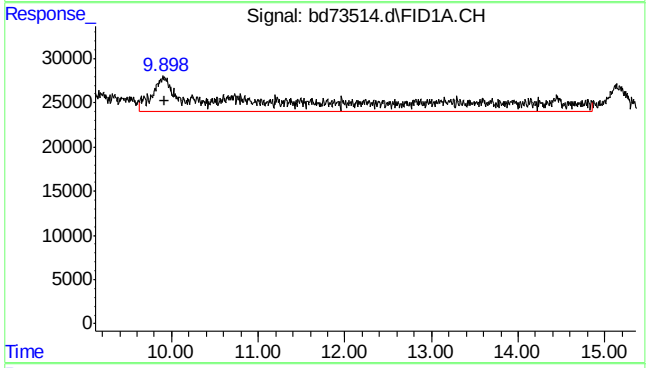


bd160509vph.M Mon May 09 10:32:05 2016 Page: 2



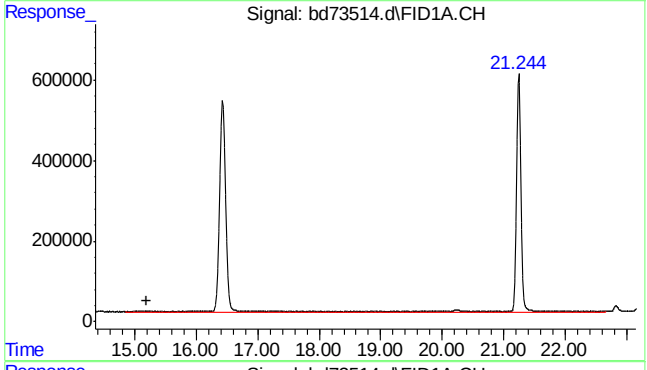
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2783126
Conc: 4.51 ppb



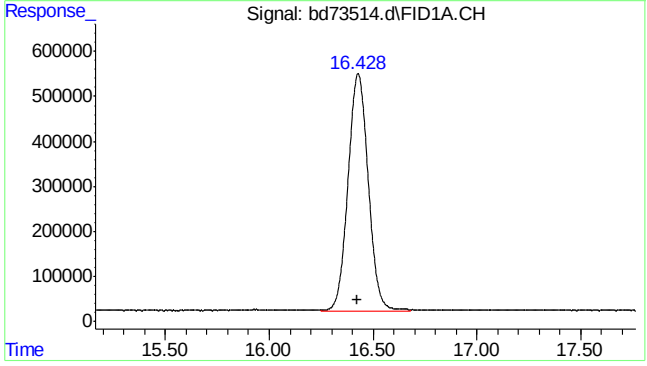
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3660079
Conc: 5.93 ppb



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 5351004
Conc: 8.68 ppb



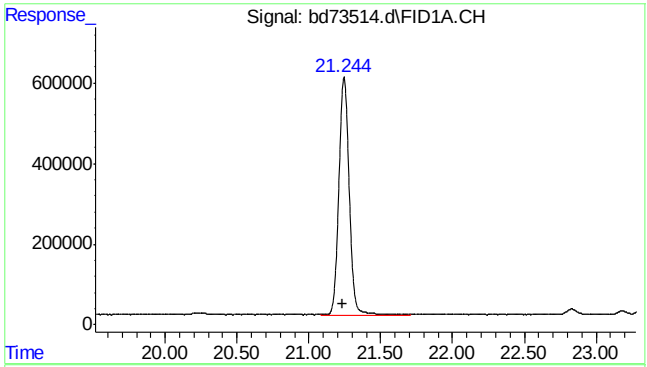
#4 fluorobenzene

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 35696311
Conc: 52.46 ppb

7.2.1

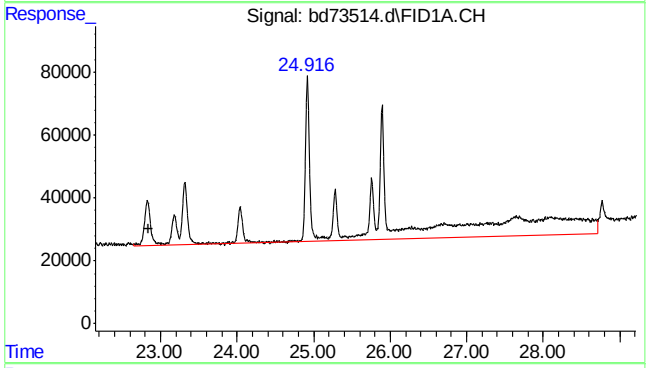
7

SGS ACCUTEST MC45799



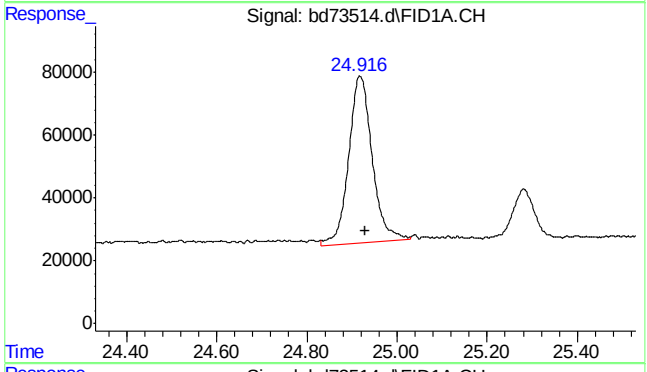
#6 2,3,4-trifluorotoluene

R.T.: 21.245 min
Delta R.T.: 0.008 min
Response: 29376224
Conc: 56.38 ppb



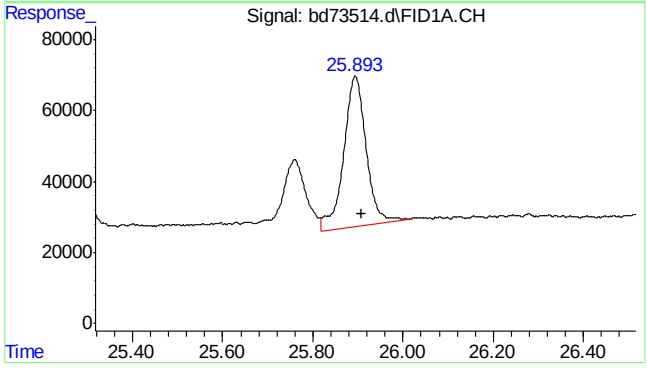
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 15049372
Conc: 18.81 ppb



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1925260
Conc: 2.41 ppb



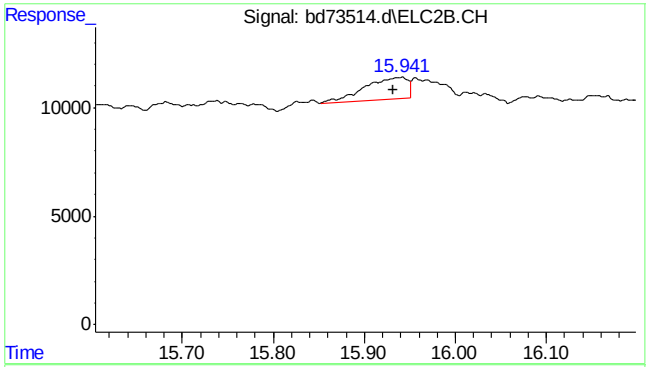
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1474753
Conc: 1.84 ppb

7.2.1

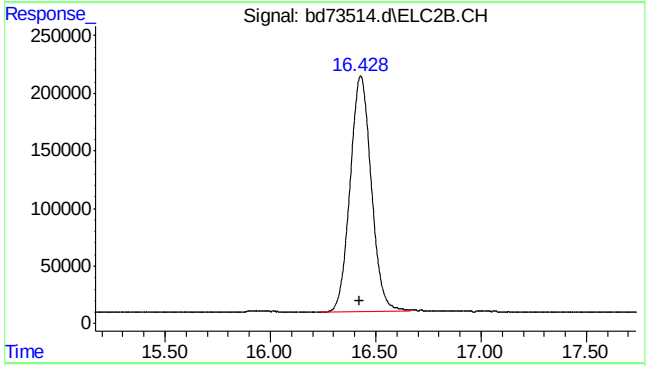
7

SGS ACCUTEST MC45799



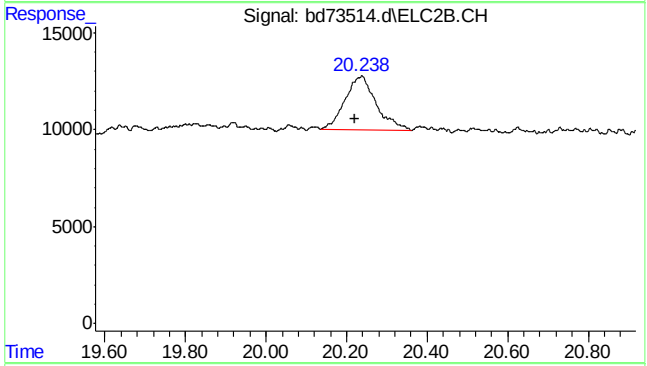
#15 benzene #2

R.T.: 15.942 min
Delta R.T.: 0.010 min
Response: 32374
Conc: 0.07 ppb



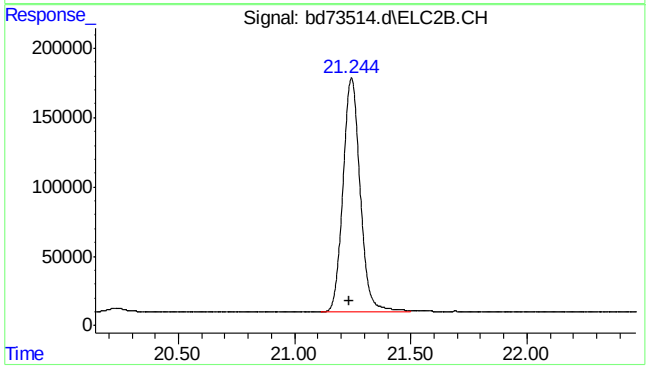
#16 fluorobenzene #2

R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 14339485
Conc: 42.27 ppb



#17 toluene #2

R.T.: 20.238 min
Delta R.T.: 0.017 min
Response: 150739
Conc: 0.33 ppb



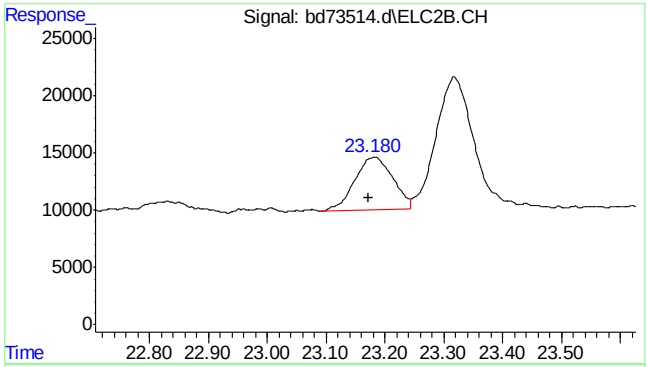
#18 2,3,4-trifluorotoluene #2

R.T.: 21.244 min
Delta R.T.: 0.007 min
Response: 8704424
Conc: 44.22 ppb

7.2.1

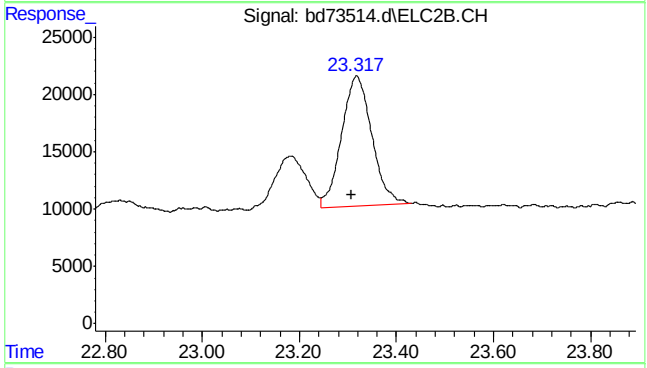
7

SGS ACCUTEST MC45799



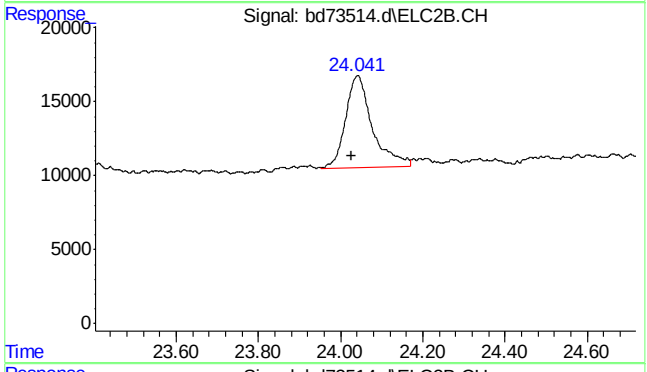
#19 ethylbenzene #2

R.T.: 23.183 min
Delta R.T.: 0.011 min
Response: 207095
Conc: 0.50 ppb



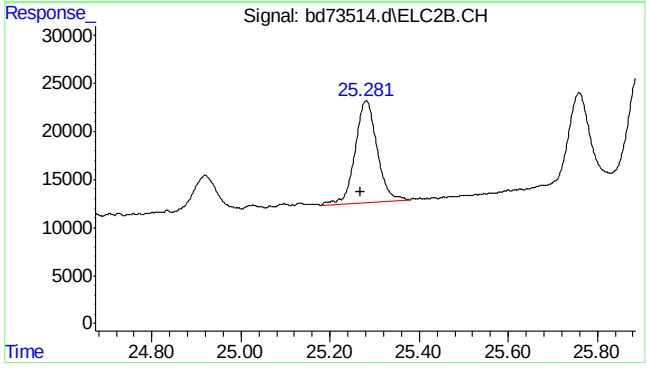
#20 m,p-xylene #2

R.T.: 23.318 min
Delta R.T.: 0.011 min
Response: 492321
Conc: 0.99 ppb



#21 o-xylene #2

R.T.: 24.042 min
Delta R.T.: 0.014 min
Response: 277865
Conc: 0.64 ppb



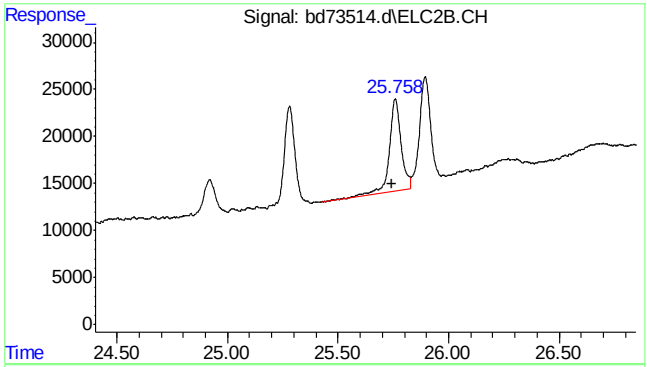
#22 1,3,5-trimethylbenzene #2

R.T.: 25.281 min
Delta R.T.: 0.013 min
Response: 359429
Conc: 0.54 ppb

7.2.1

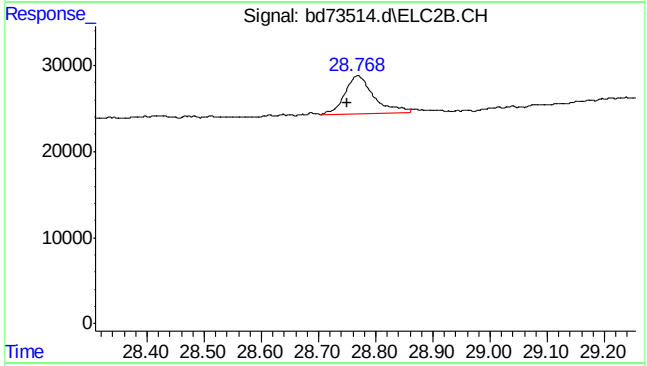
7

SGS ACCUTEST MC45799



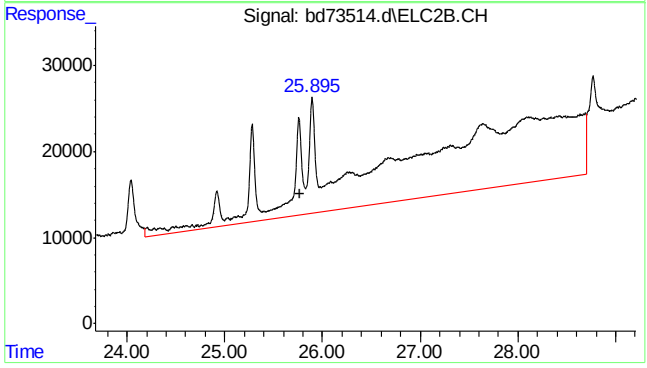
#23 1,2,4-trimethylbenzene #2

R.T.: 25.759 min
Delta R.T.: 0.013 min
Response: 364154
Conc: 0.74 ppb



#24 naphthalene #2

R.T.: 28.769 min
Delta R.T.: 0.019 min
Response: 158755
Conc: 0.99 ppb



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11337110
Conc: 23.06 ppb

7.2.1

7

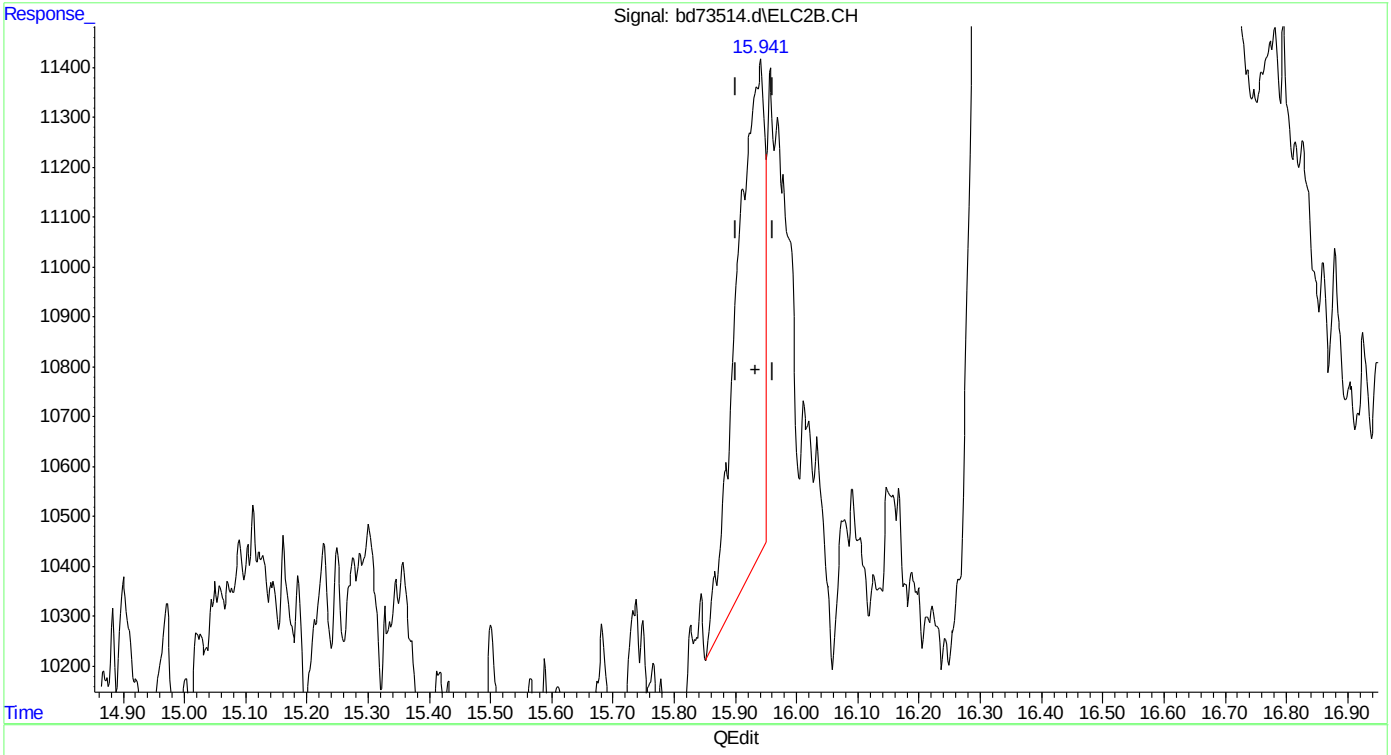
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

15.942min 0.067 ppb

response 32374

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:32:35 2016

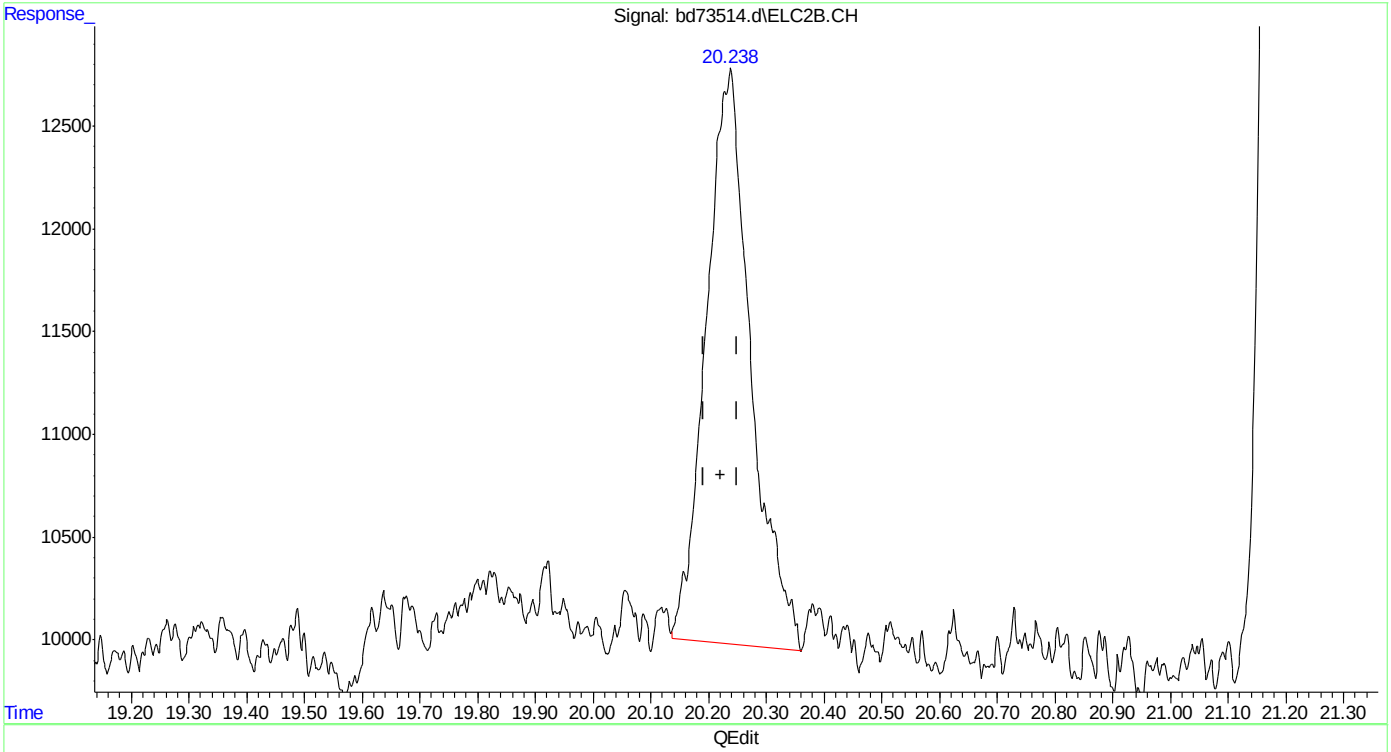
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
20.238min 0.333 ppb
response 150739

(+) = Expected Retention Time
bd160509vph.M Mon May 09 10:32:41 2016

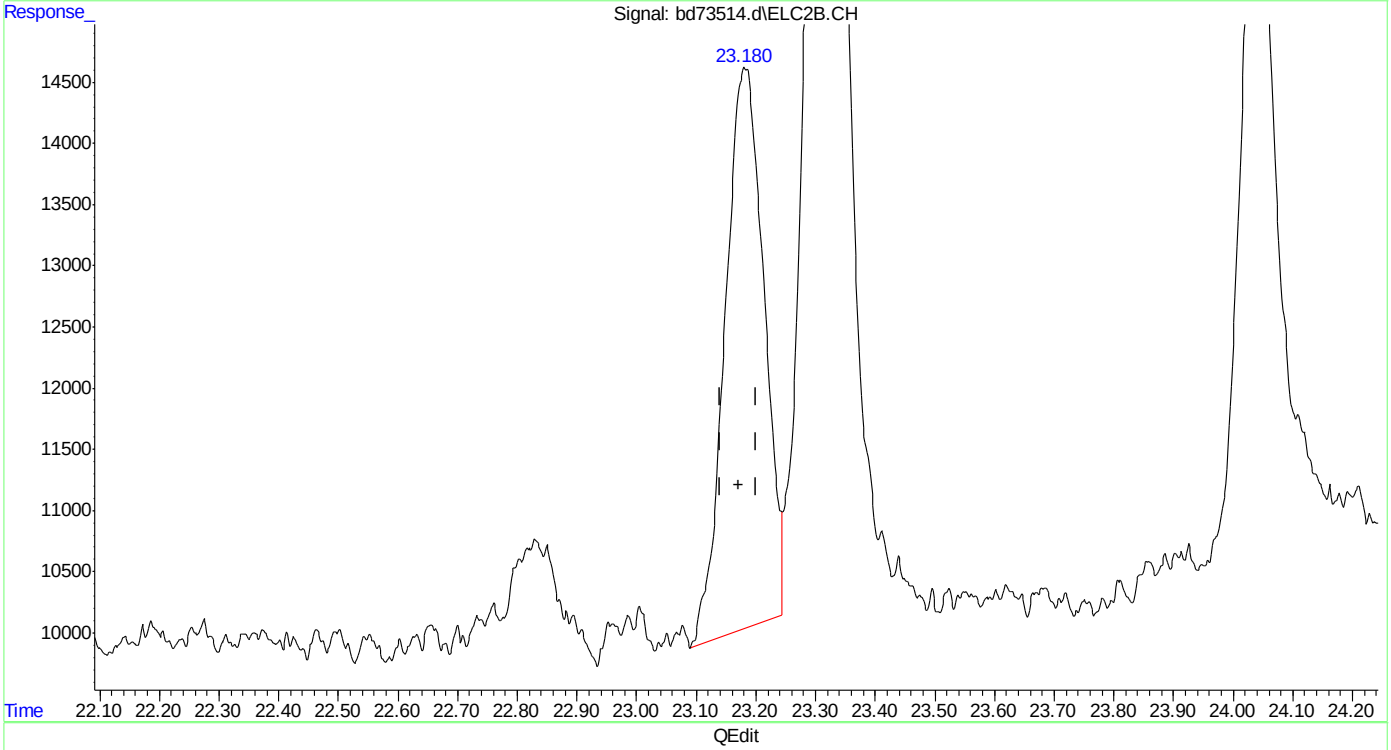
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

23.183min 0.499 ppb

response 207095

(+) = Expected Retention Time

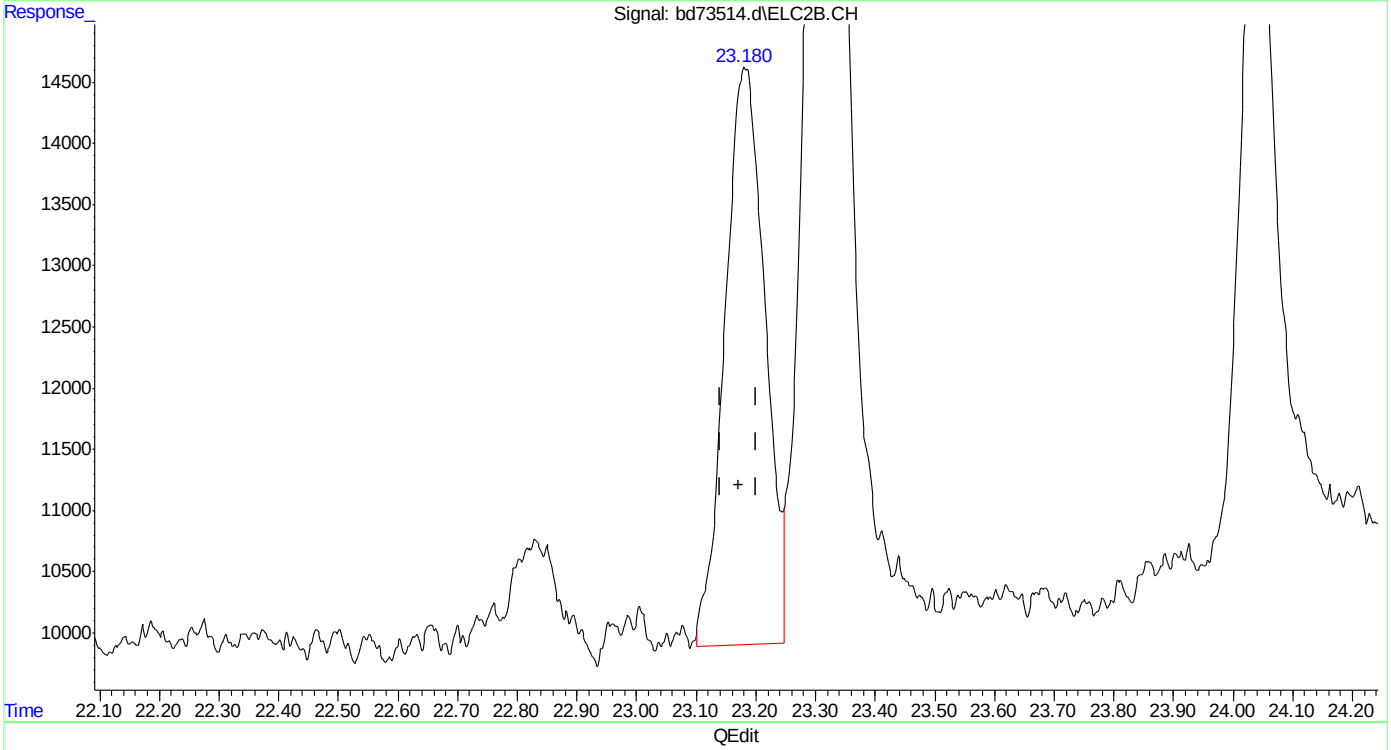
bd160509vph.M Mon May 09 10:32:49 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
23.180min 0.530 ppb m
response 219769

(+) = Expected Retention Time
bd160509vph.M Mon May 09 10:32:55 2016

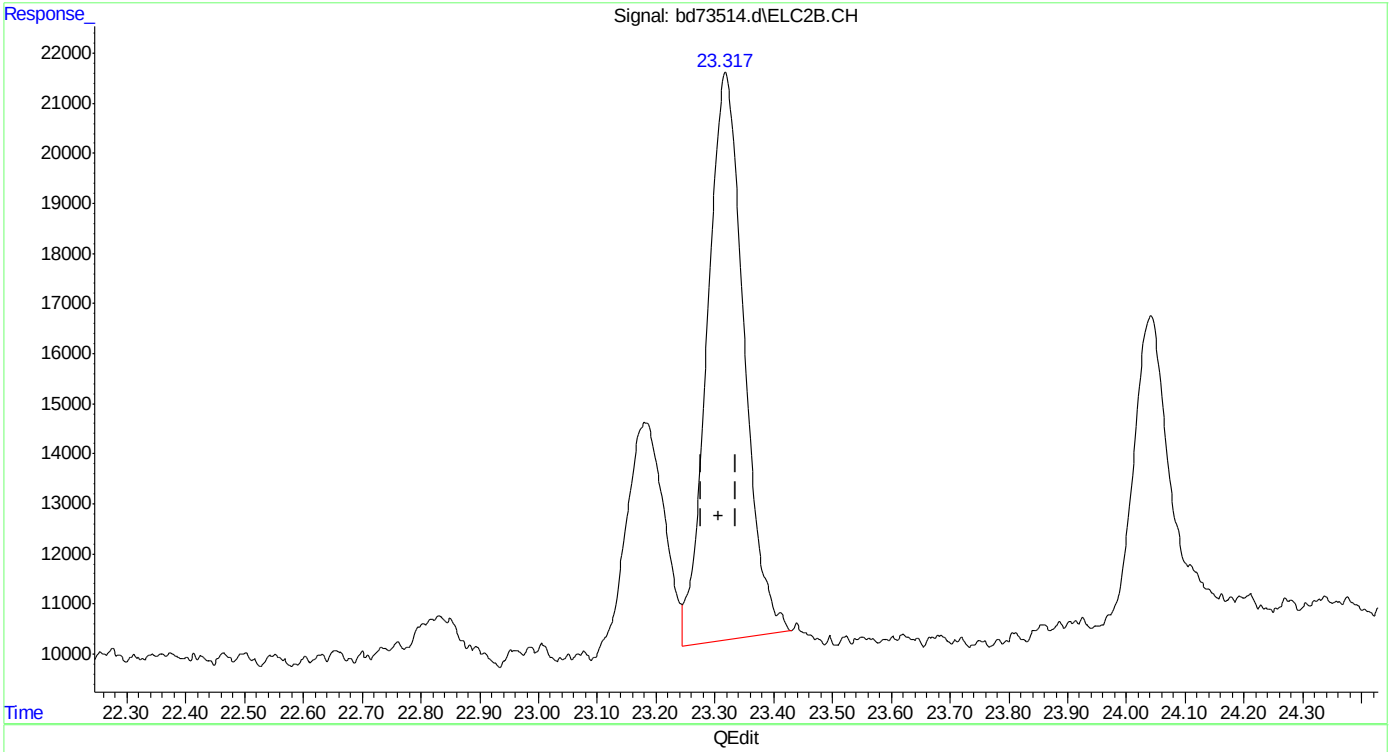
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

23.318min 0.988 ppb

response 492321

(+) = Expected Retention Time

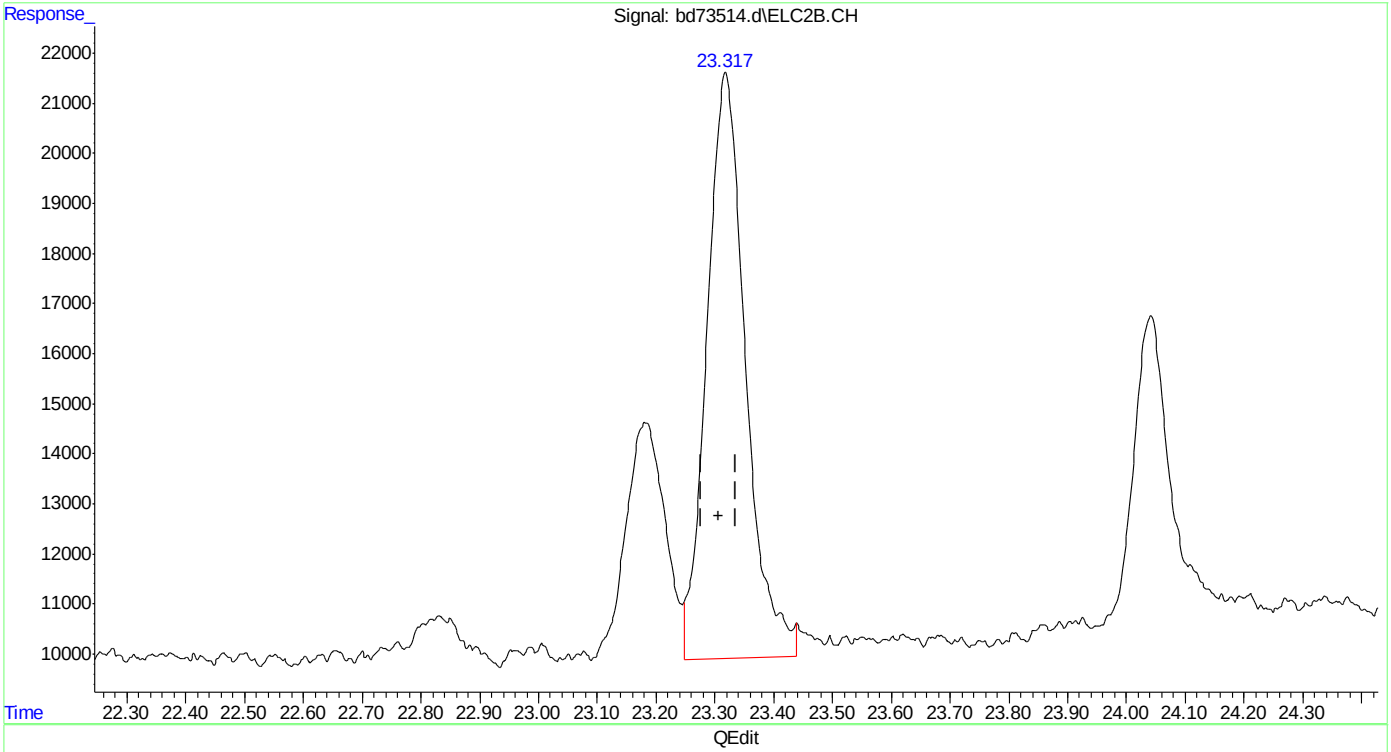
bd160509vph.M Mon May 09 10:32:59 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

23.317min 1.075 ppb m

response 536075

(+) = Expected Retention Time

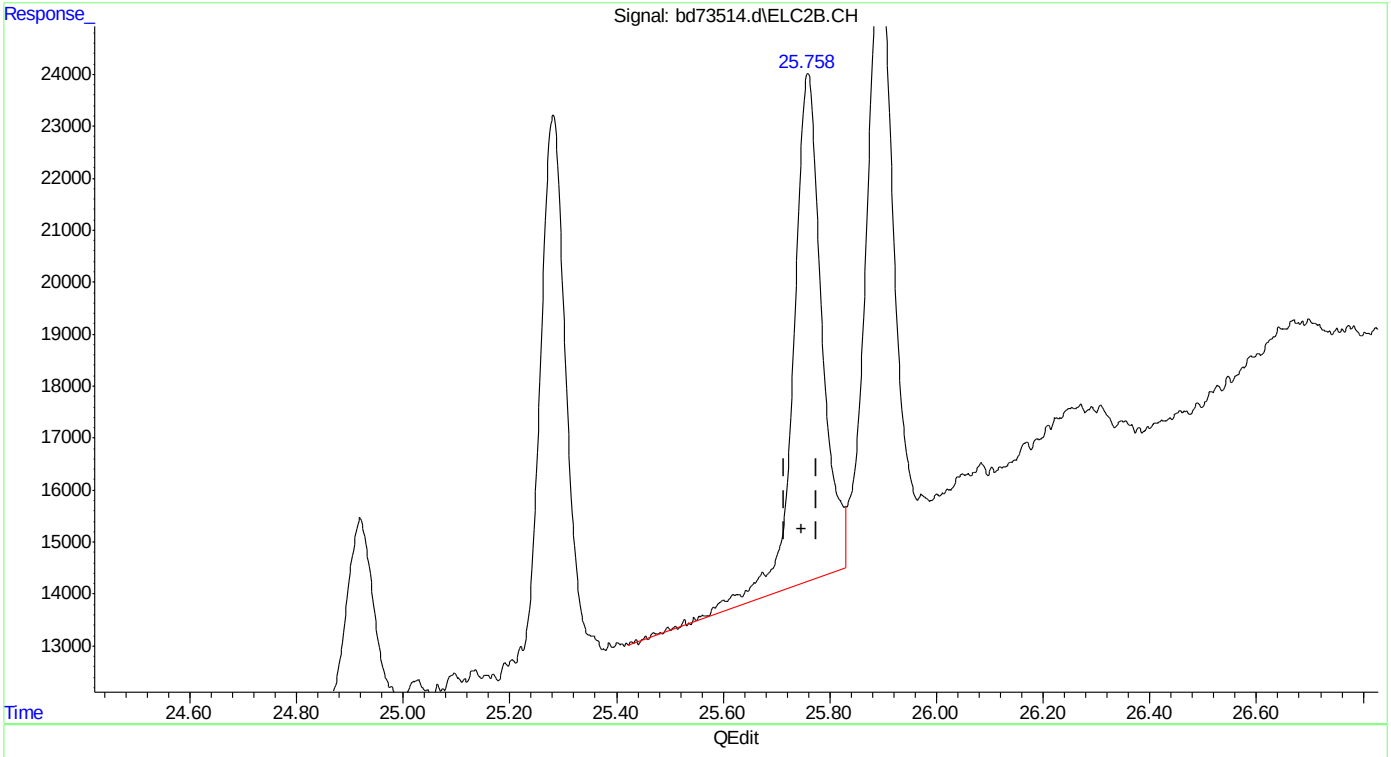
bd160509vph.M Mon May 09 10:33:05 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



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

25.759min 0.740 ppb

response 364154

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:33:14 2016

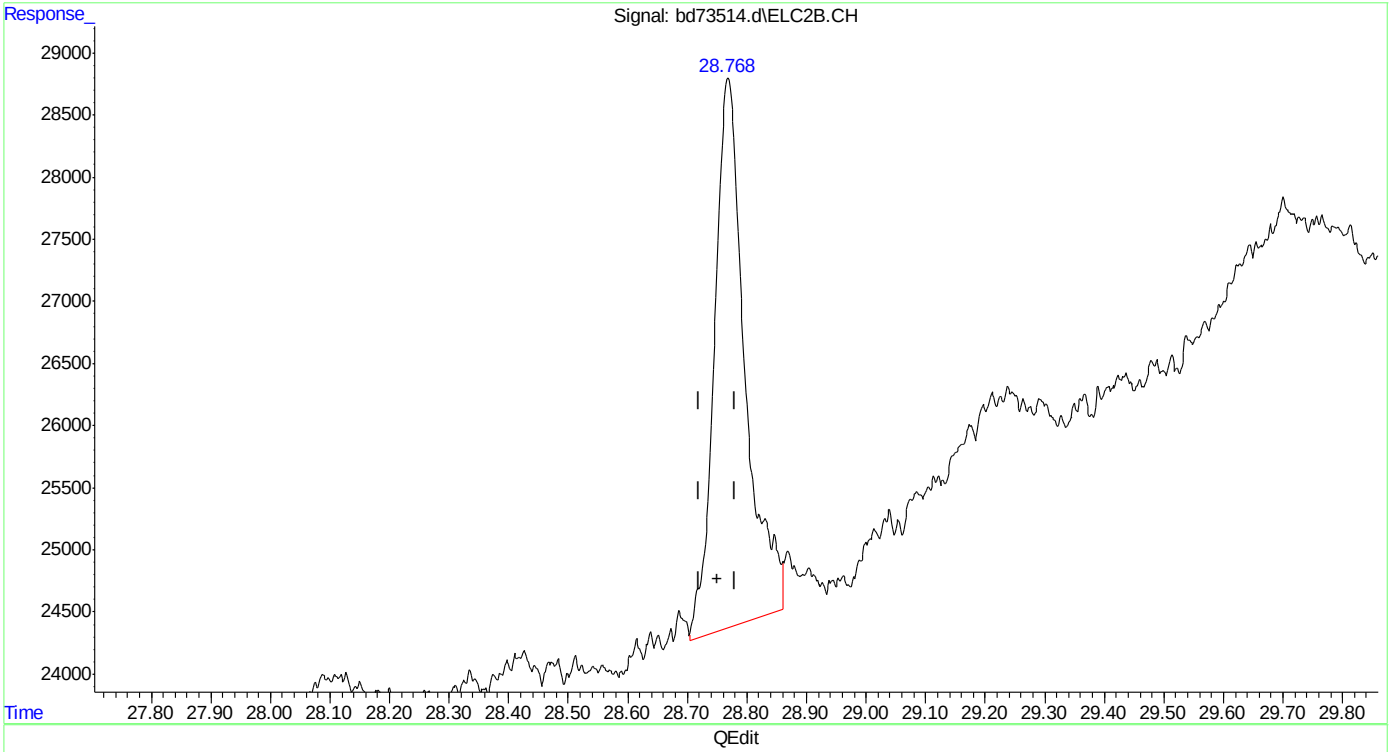
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.769min 0.994 ppb

response 158755

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:33:23 2016

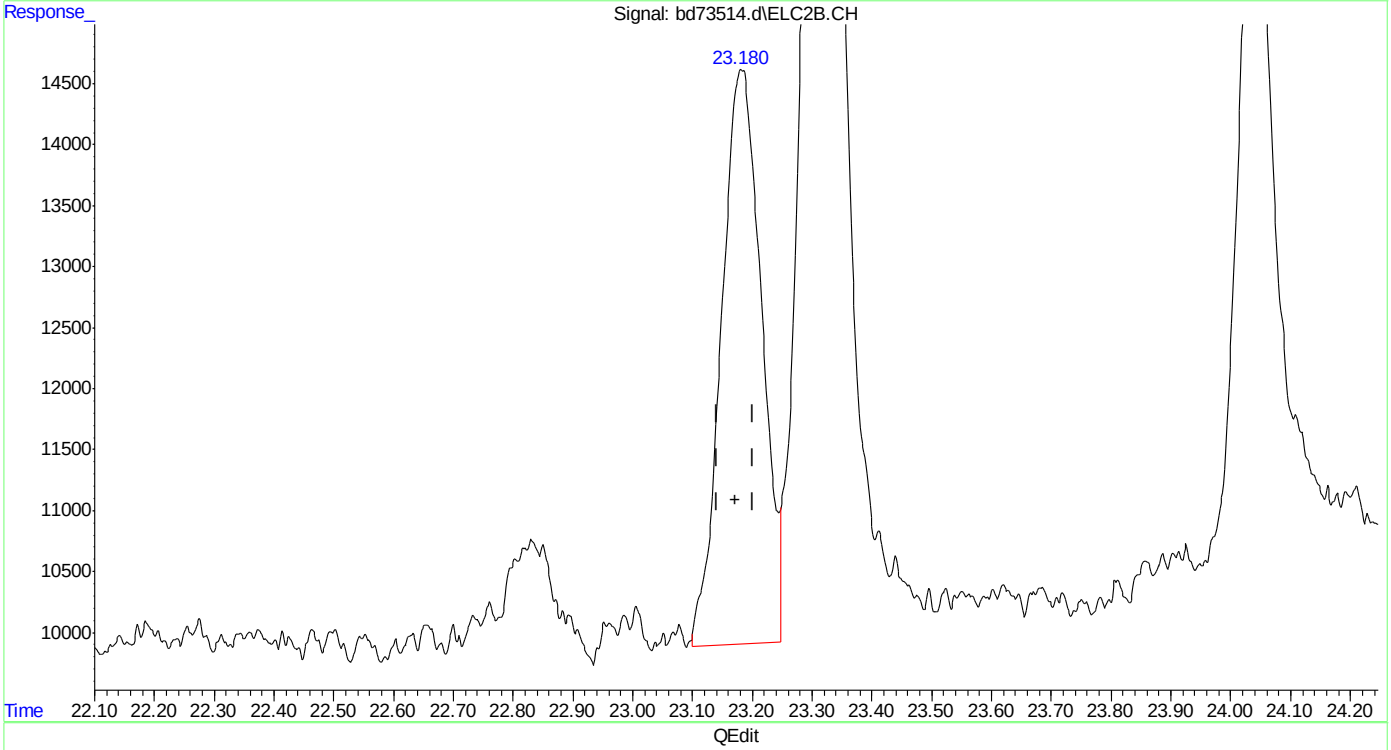
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

23.180min 0.530 ppb m

response 219769

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:33:34 2016

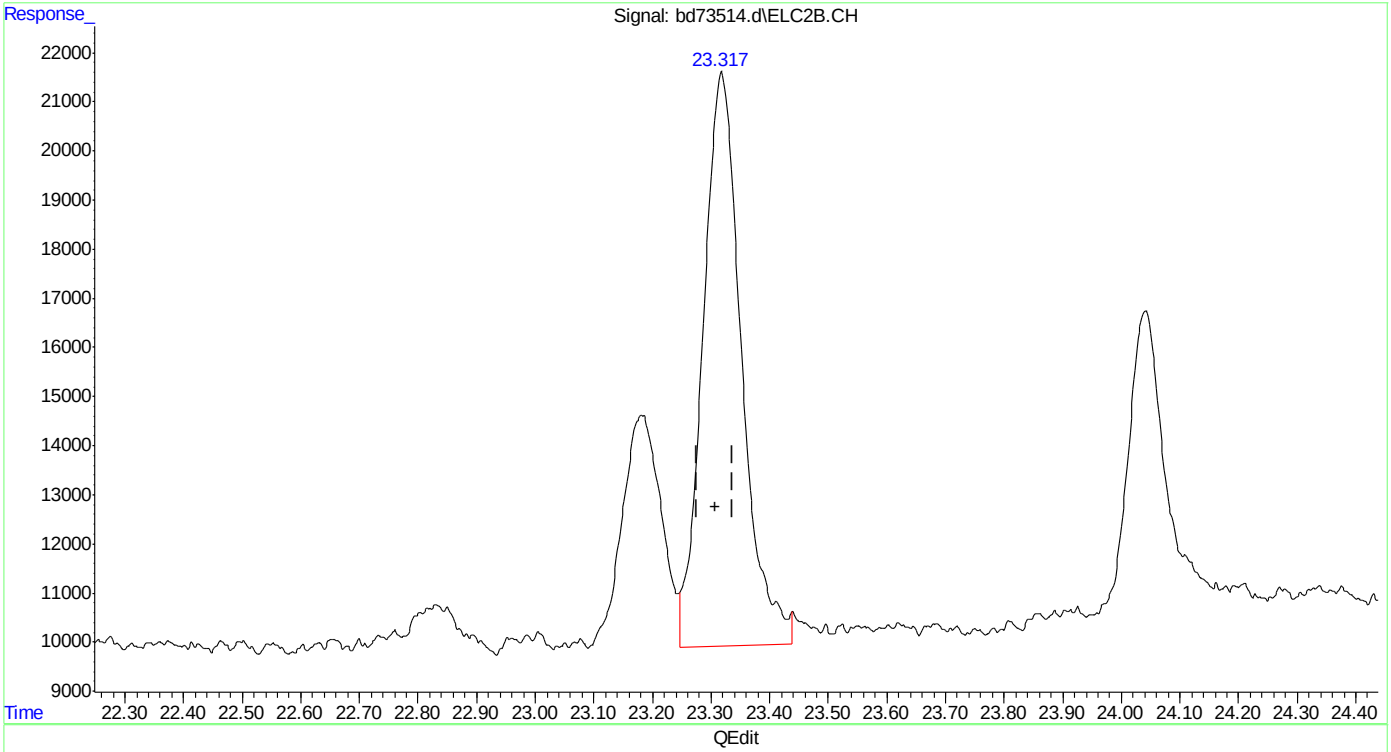
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

23.317min 1.075 ppb m

response 536075

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:33:37 2016

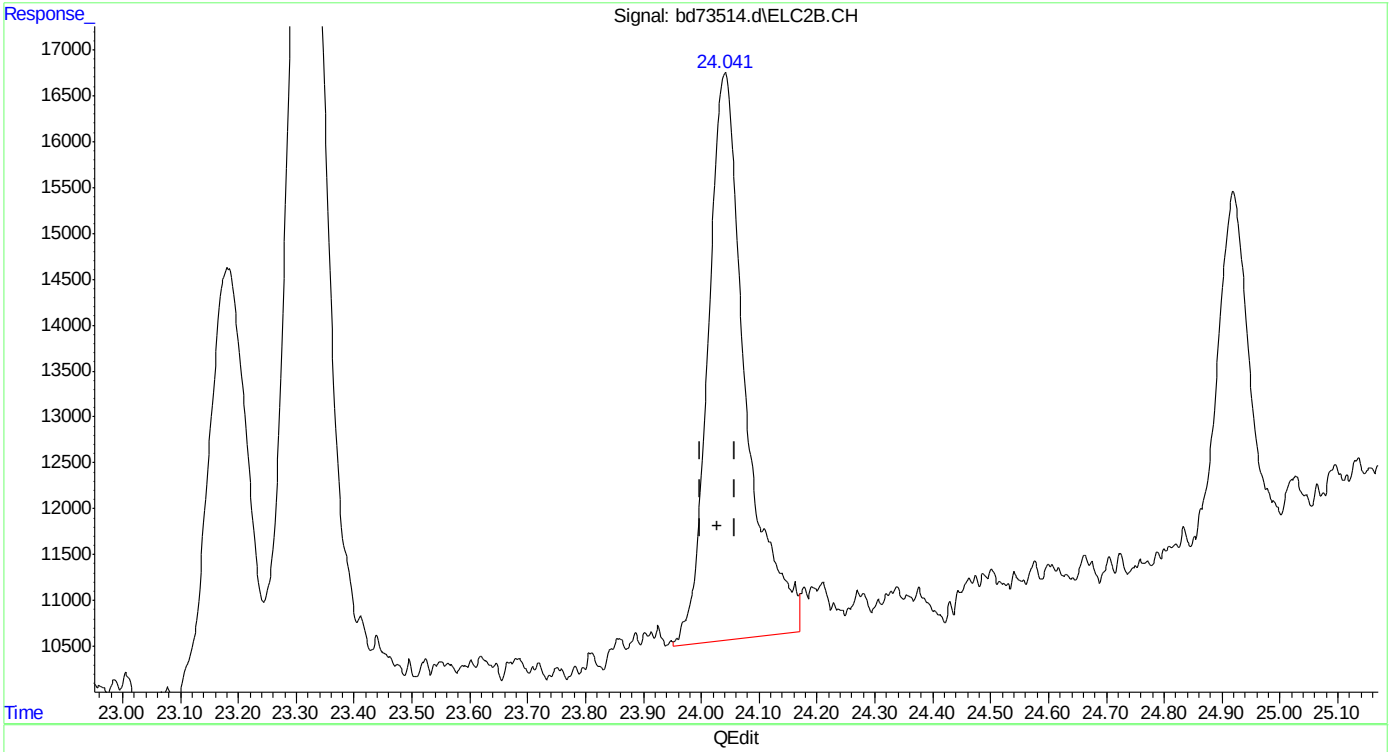
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(21) o-xylene #2
24.042min 0.639 ppb
response 277865

(+) = Expected Retention Time
bd160509vph.M Mon May 09 10:33:41 2016

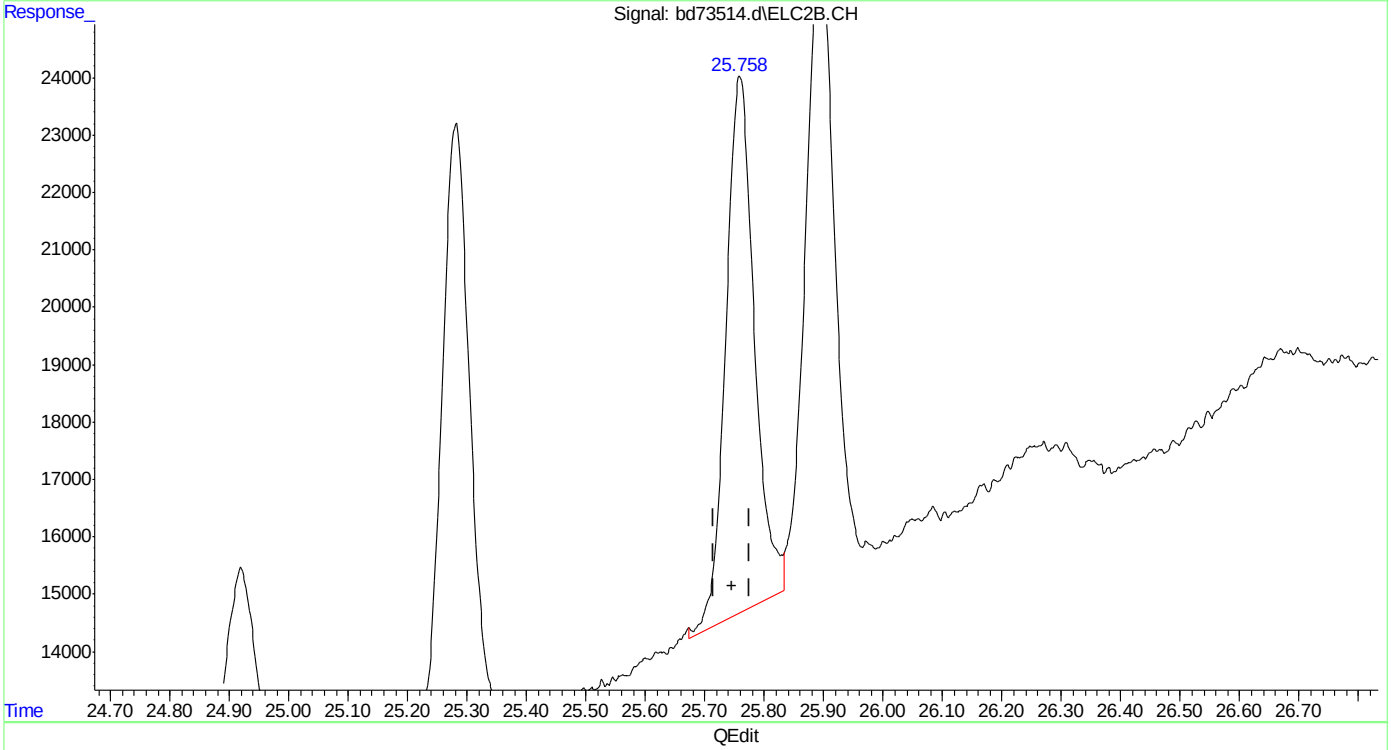
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 09:32:11
Operator : tonyf
Sample : mb,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
25.758min 0.637 ppb m
response 313405

(+) = Expected Retention Time
bd160509vph.M Mon May 09 10:33:46 2016

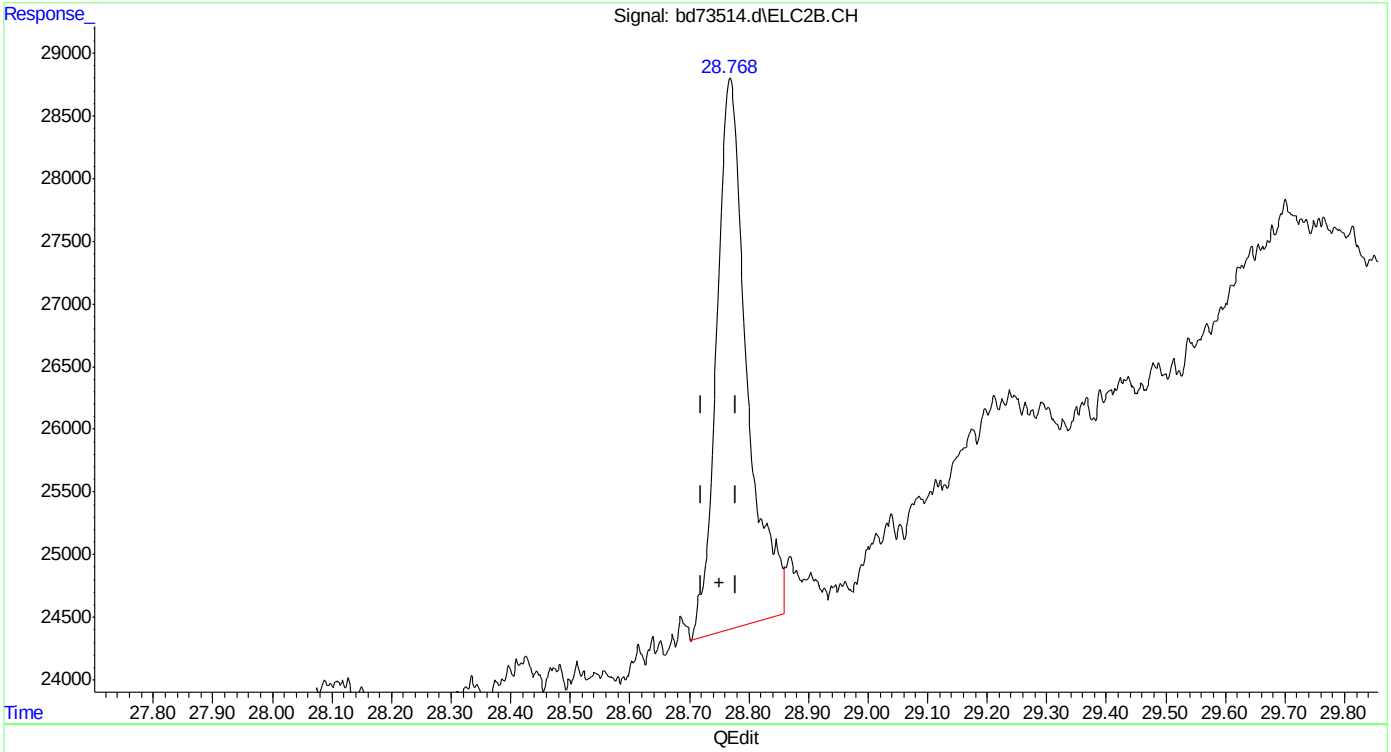
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73514.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 09:32:11
Operator  : tonyf
Sample    : mb,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:32:03 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.768min 0.984 ppb m

response 154948

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:33:51 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:10:45
Operator : tonyf
Sample : bsp,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 11:45:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.425	37742679	55.471 ppb	
Spiked Amount 50.000		Recovery	= 110.94%	
6) s 2,3,4-trifluorotoluene	21.242	29654107	56.917 ppb	
Spiked Amount 50.000		Recovery	= 113.83%	
16) s fluorobenzene #2	16.425	15555566	45.852 ppb	
Spiked Amount 50.000		Recovery	= 91.70%	
18) s 2,3,4-trifluorotoluen...	21.242	8898907	45.205 ppb	
Spiked Amount 50.000		Recovery	= 90.41%	
Target Compounds				
1) h rt5.5-7	7.470	27152696	44.026 ppb	m
2) h rt7/10	9.920	34357711	55.708 ppb	m
3) h rt10/13	15.200	27373605	44.384 ppb	m
8) h rt20/25	22.840	32551835	40.678 ppb	m
10) h decane	24.930	30647788	38.299 ppb	
11) h butylcyclohexane	25.908	35510365	44.376 ppb	
14) mtbe #2	10.683	7355507	47.729 ppb	m
15) benzene #2	15.931	23612304	48.826 ppb	
17) toluene #2	20.224	21817906	48.193 ppb	
19) ethylbenzene #2	23.178	19469131	46.912 ppb	
20) m,p-xylene #2	23.313	47229063	94.753 ppb	
21) o-xylene #2	24.035	19936589	45.854 ppb	
22) t 1,3,5-trimethylbenzen...	25.277	27945913	41.646 ppb	
23) 1,2,4-trimethylbenzen...	25.755	21895502	44.514 ppb	
24) naphthalene #2	28.762	17070164	47.370 ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.777	21883940	44.511 ppb	m

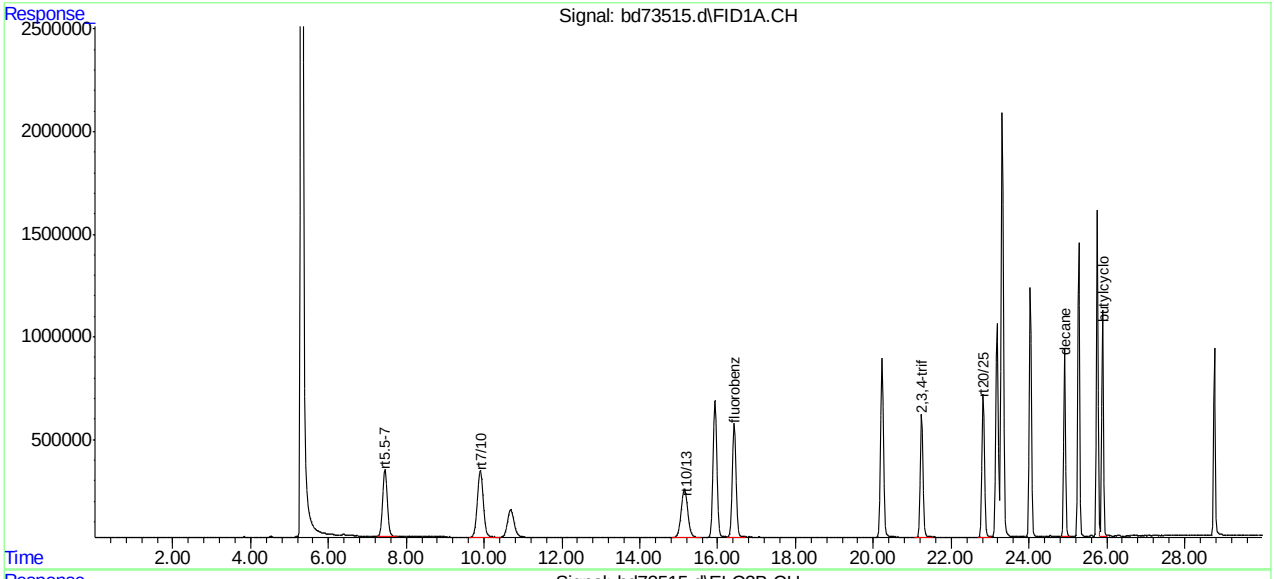
(f)=RT Delta > 1/2 Window (m)=manual int.

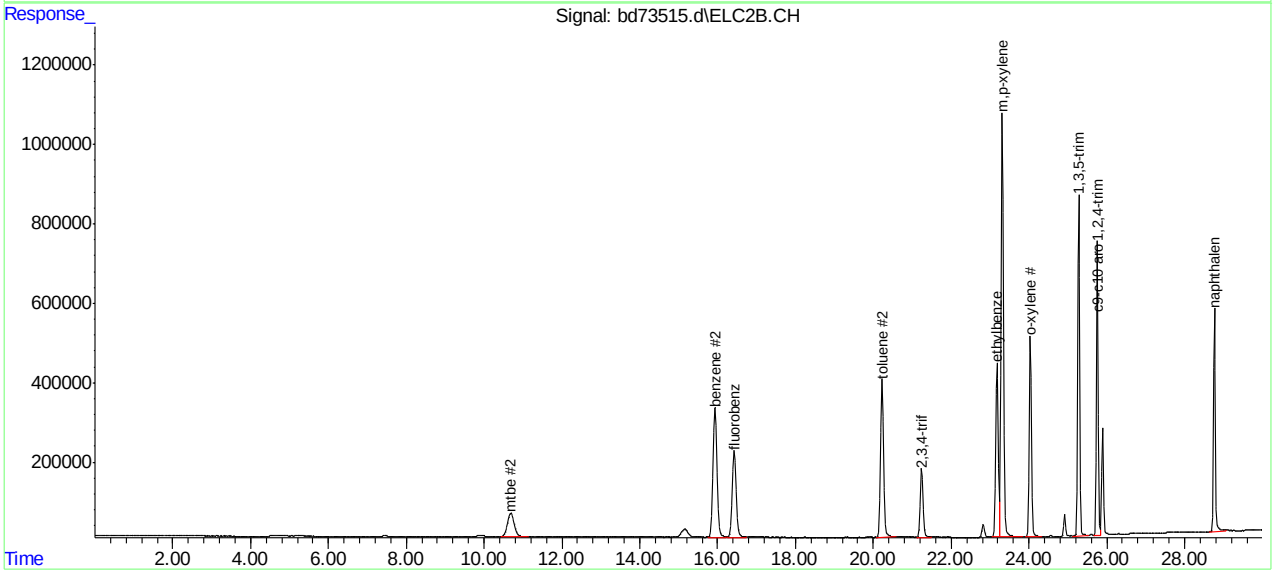
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:10:45
Operator : tonyf
Sample : bsp,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

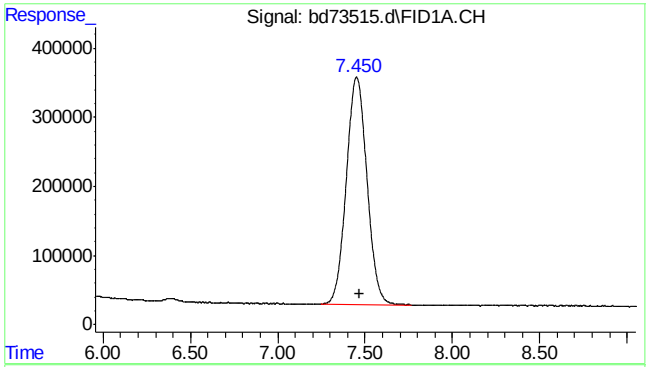
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 11:45:12 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



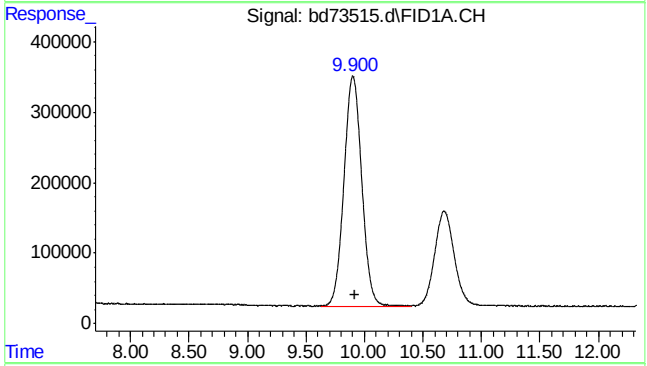


SGS ACCUTEST MC45799



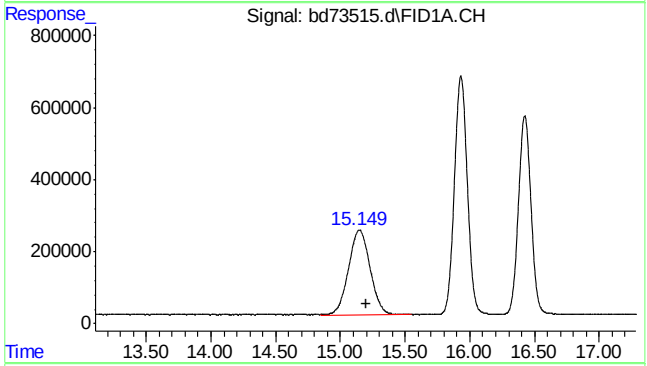
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27152696
Conc: 44.03 ppb m



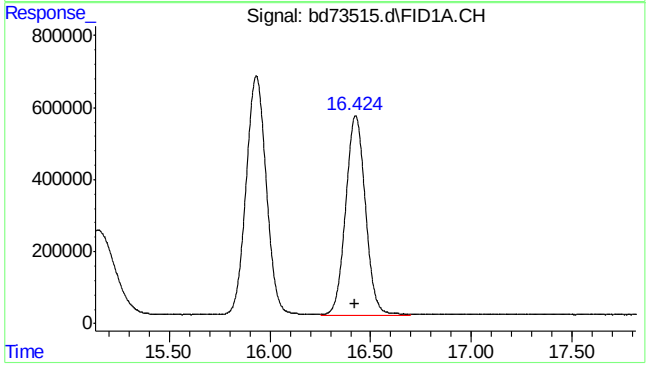
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 34357711
Conc: 55.71 ppb m



#3 rt10/13

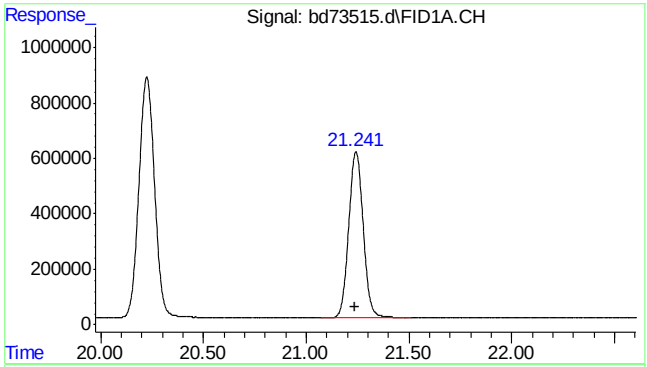
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27373605
Conc: 44.38 ppb m



#4 fluorobenzene

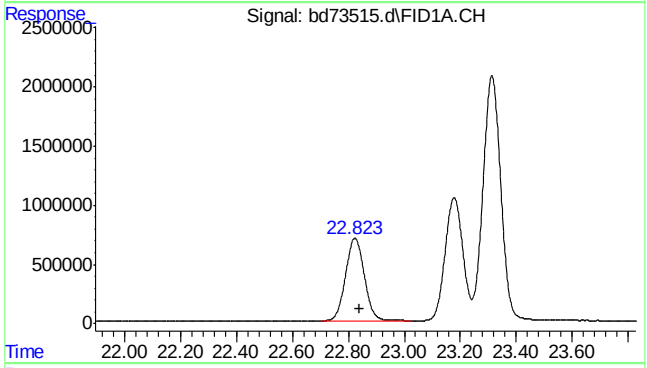
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 37742679
Conc: 55.47 ppb

SGS ACCUTEST MC45799



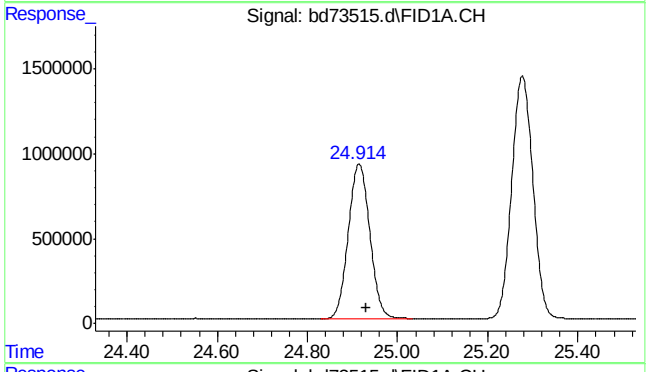
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 29654107
Conc: 56.92 ppb



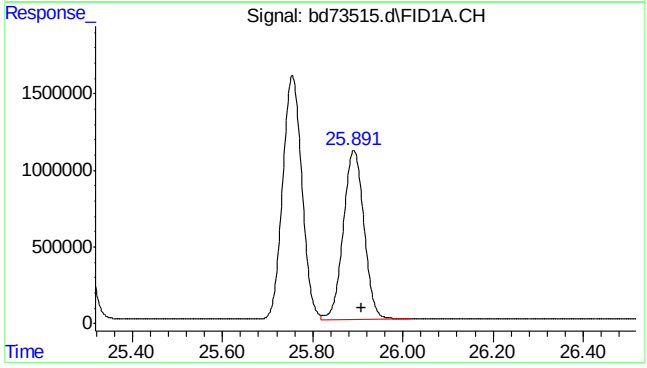
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32551835
Conc: 40.68 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30647788
Conc: 38.30 ppb



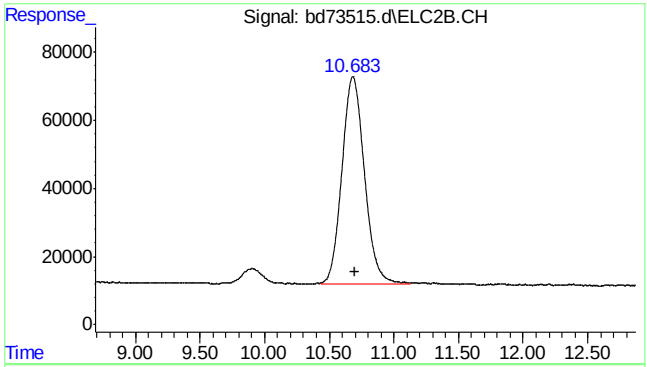
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 35510365
Conc: 44.38 ppb

7.3.1

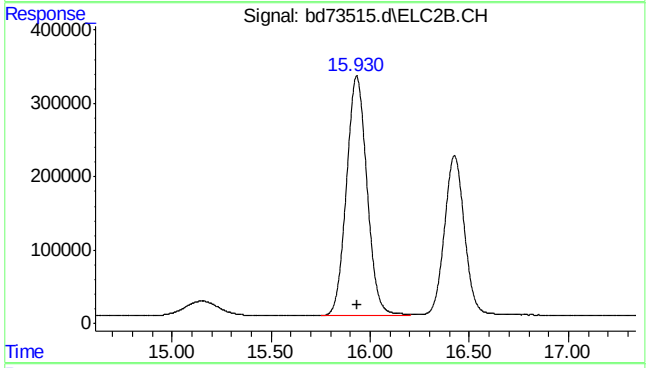
7

SGS ACCUTEST MC45799



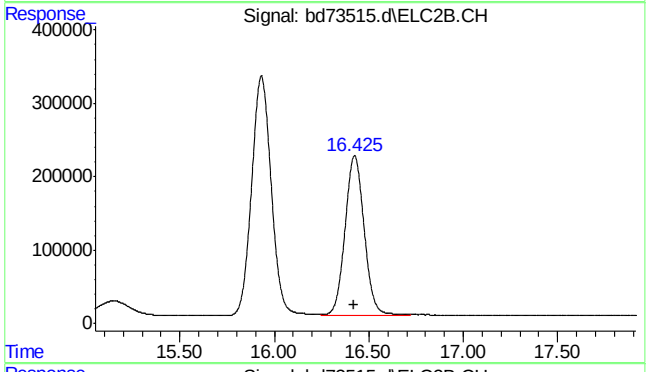
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 7355507
Conc: 47.73 ppb m



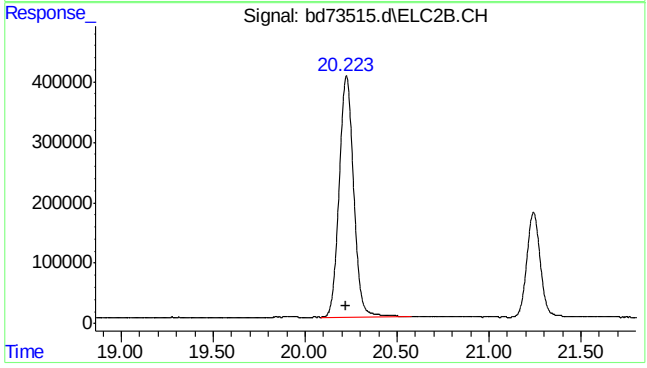
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 23612304
Conc: 48.83 ppb



#16 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 15555566
Conc: 45.85 ppb



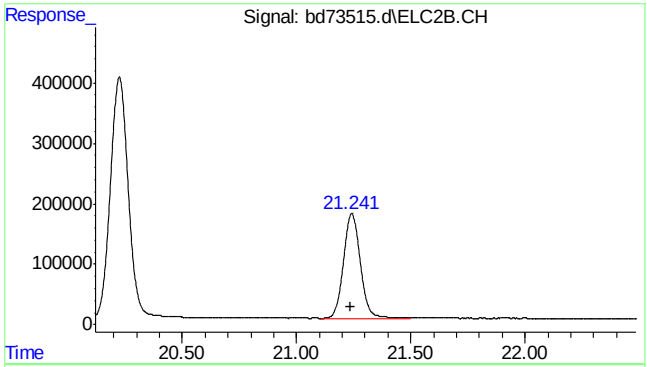
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21817906
Conc: 48.19 ppb

7.3.1

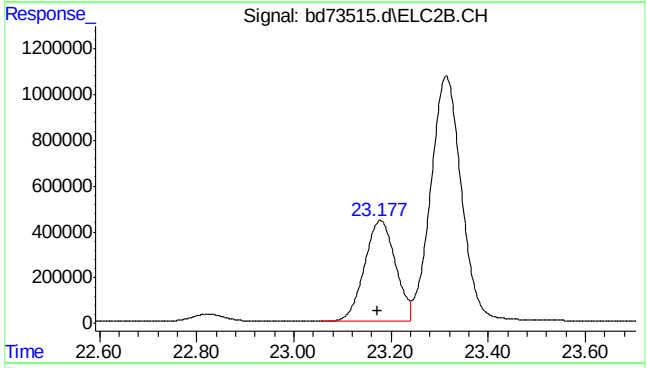
7

SGS ACCUTEST MC45799



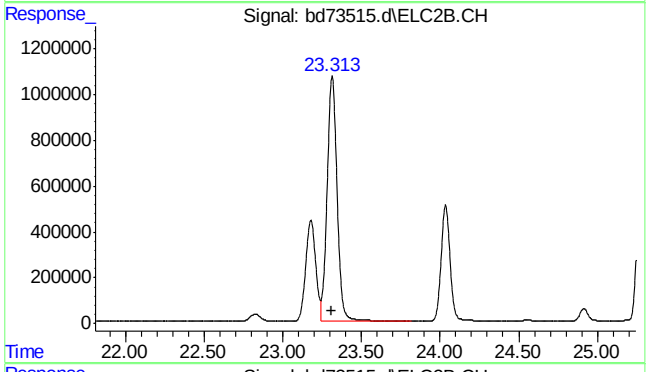
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8898907
Conc: 45.21 ppb



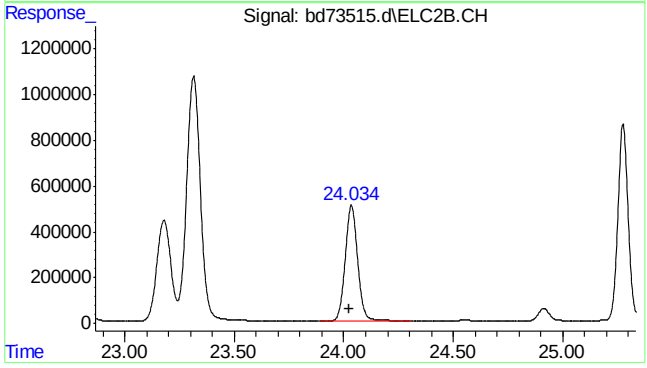
#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 19469131
Conc: 46.91 ppb



#20 m,p-xylene #2

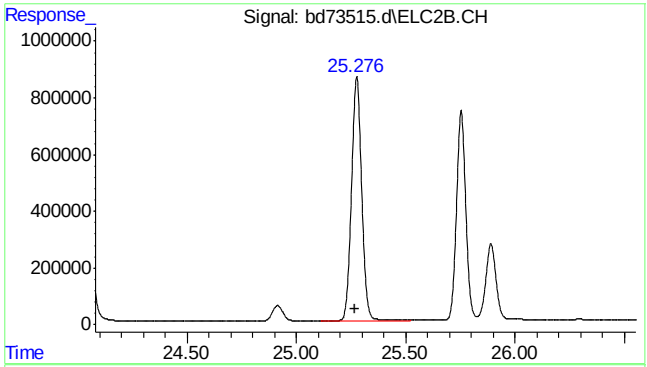
R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 47229063
Conc: 94.75 ppb



#21 o-xylene #2

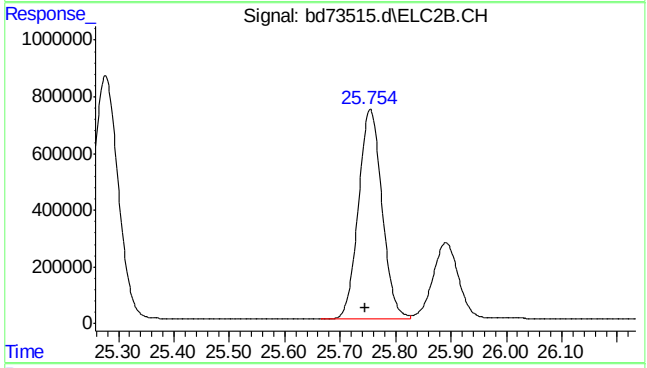
R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19936589
Conc: 45.85 ppb

SGS ACCUTEST MC45799



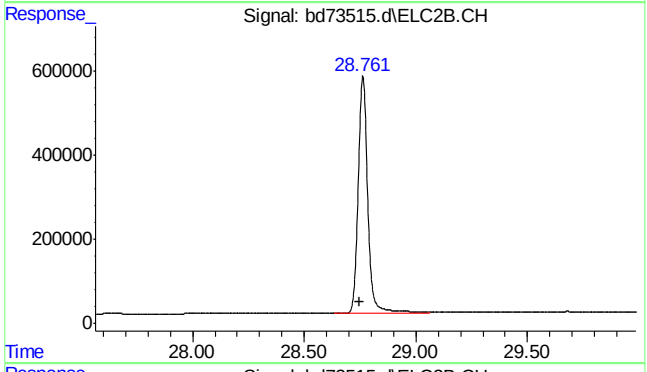
#22 1,3,5-trimethylbenzene #2

R.T.: 25.277 min
Delta R.T.: 0.009 min
Response: 27945913
Conc: 41.65 ppb



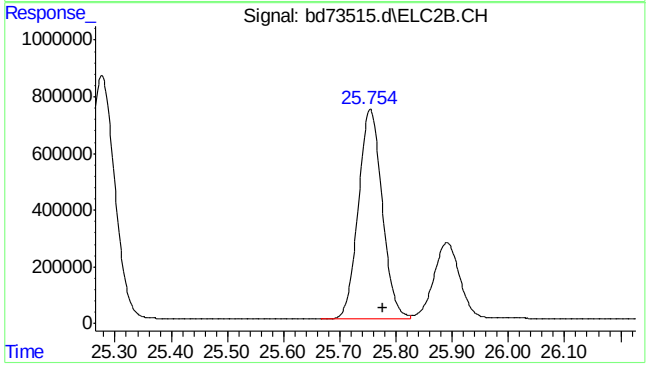
#23 1,2,4-trimethylbenzene #2

R.T.: 25.755 min
Delta R.T.: 0.009 min
Response: 21895502
Conc: 44.51 ppb



#24 naphthalene #2

R.T.: 28.762 min
Delta R.T.: 0.012 min
Response: 17070164
Conc: 47.37 ppb



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21883940
Conc: 44.51 ppb m

7.3.1

7

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:10:45
Operator : tonyf
Sample : bsp,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 10:41:19 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.683min 46.746 ppb
response 7203956

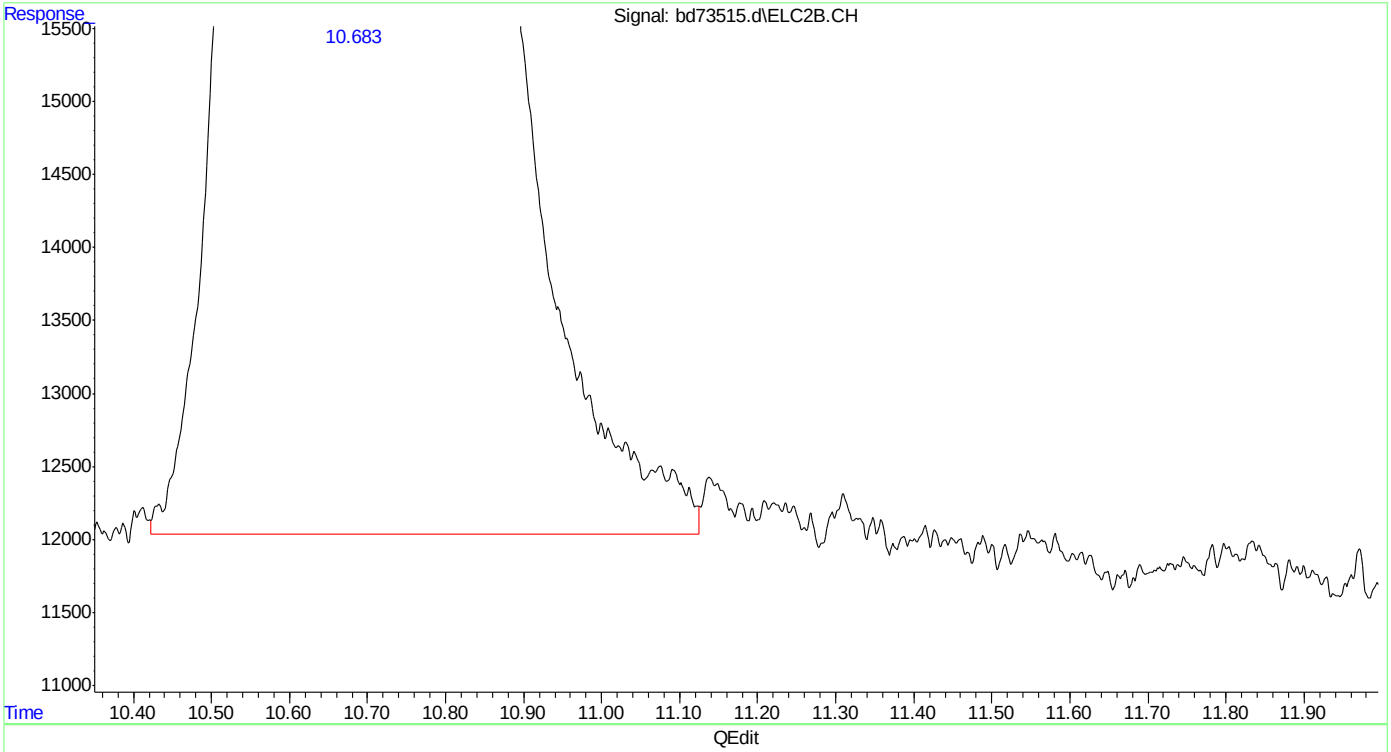
(+) = Expected Retention Time
bd160509vph.M Mon May 09 10:41:55 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:10:45
Operator  : tonyf
Sample    : bsp,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:41:19 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.683min 47.715 ppb m

response 7353259

(+) = Expected Retention Time

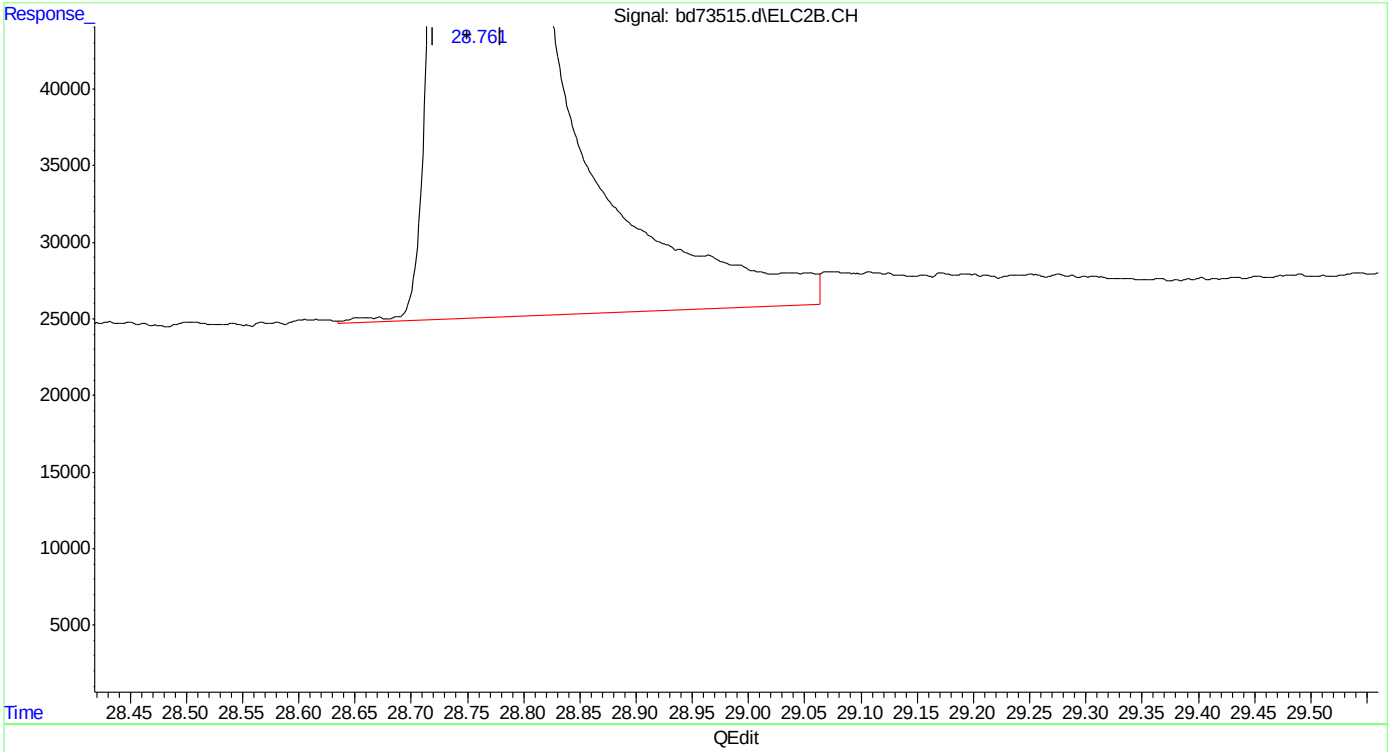
bd160509vph.M Mon May 09 10:41:59 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:10:45
Operator  : tonyf
Sample    : bsp,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:41:19 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.762min 47.370 ppb

response 17070164

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:42:10 2016

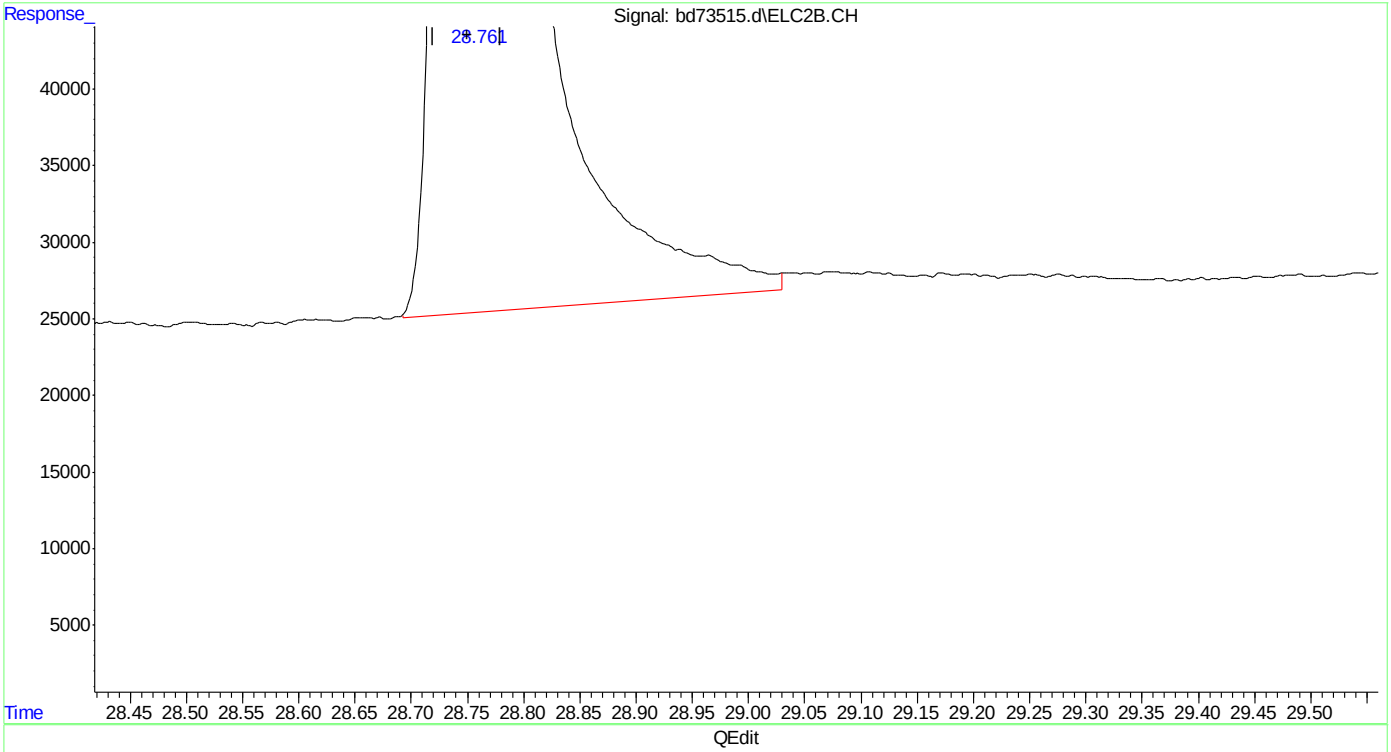
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:10:45
Operator  : tonyf
Sample    : bsp,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 10:41:19 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.761min 46.878 ppb m

response 16890460

(+) = Expected Retention Time

bd160509vph.M Mon May 09 10:42:16 2016

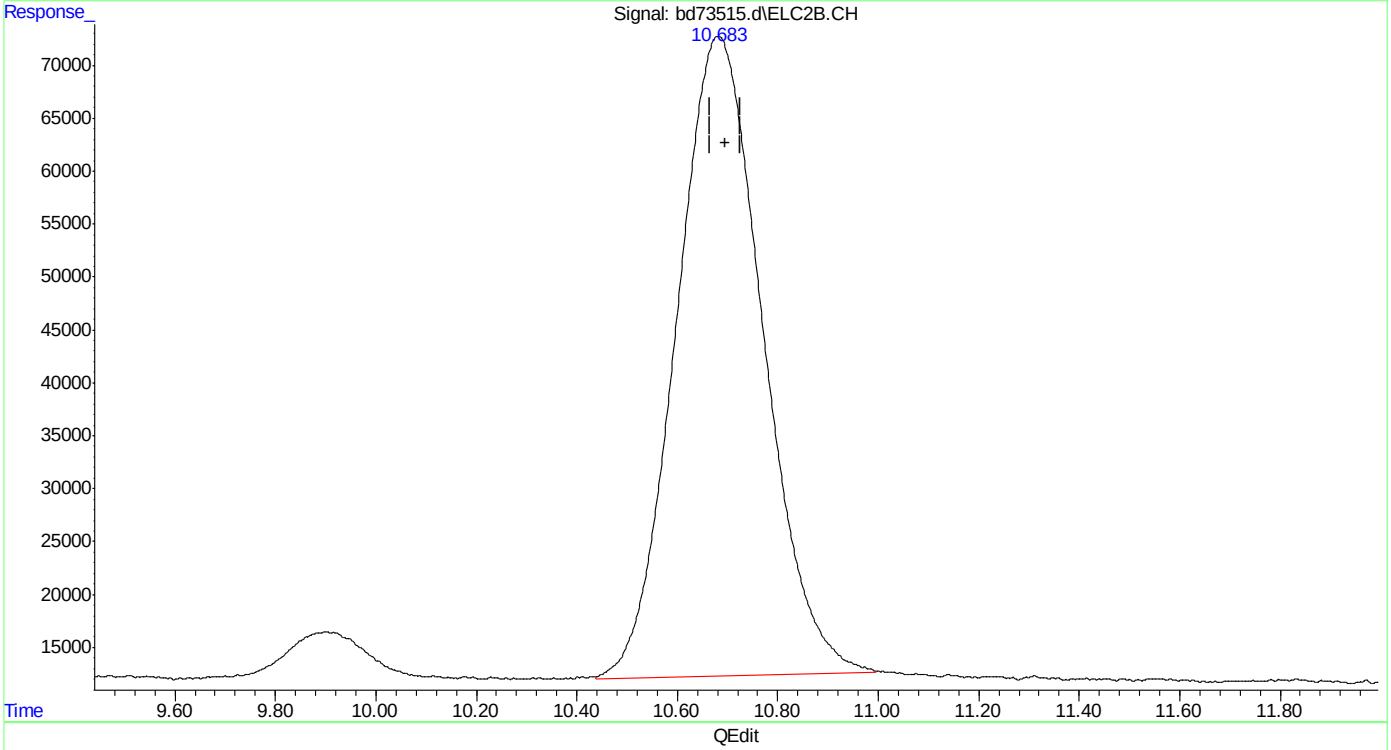
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:10:45
Operator  : tonyf
Sample    : bsp,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 11:44:06 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.683min 46.746 ppb

response 7203956

(+) = Expected Retention Time

bd160509vph.M Mon May 09 11:44:46 2016

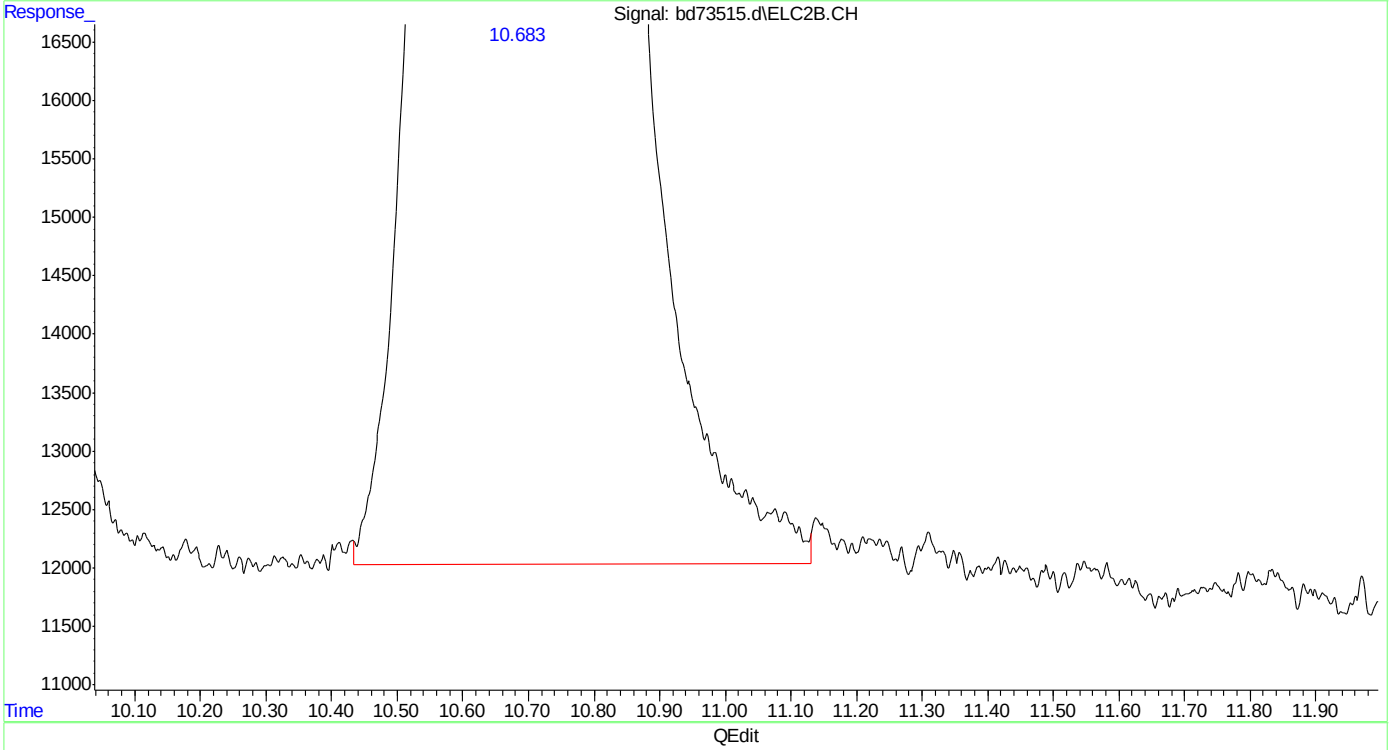
Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73515.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:10:45
Operator  : tonyf
Sample    : bsp,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 11:44:06 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.683min 47.729 ppb m

response 7355507

(+) = Expected Retention Time

bd160509vph.M Mon May 09 11:44:53 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:49:17
Operator : tonyf
Sample : bsd,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 11:46:53 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.426	36974713	54.342 ppb	
Spiked Amount 50.000		Recovery	= 108.68%	
6) s 2,3,4-trifluorotoluene	21.243	28583242	54.862 ppb	
Spiked Amount 50.000		Recovery	= 109.72%	
16) s fluorobenzene #2	16.426	15108729	44.535 ppb	
Spiked Amount 50.000		Recovery	= 89.07%	
18) s 2,3,4-trifluorotoluen...	21.243	8580689	43.589 ppb	
Spiked Amount 50.000		Recovery	= 87.18%	
Target Compounds				
1) h rt5.5-7	7.470	26663253	43.232 ppb	m
2) h rt7/10	9.920	33296339	53.987 ppb	m
3) h rt10/13	15.200	28225641	45.765 ppb	m
8) h rt20/25	22.840	35731396	44.652 ppb	m
10) h decane	24.930	34556082	43.183 ppb	
11) h butylcyclohexane	25.908	39864981	49.817 ppb	
14) mtbe #2	10.681	7306845	47.414 ppb	m
15) benzene #2	15.933	23034518	47.631 ppb	
17) toluene #2	20.225	21440930	47.360 ppb	
19) ethylbenzene #2	23.179	19027811	45.849 ppb	
20) m,p-xylene #2	23.314	46153683	92.596 ppb	
21) o-xylene #2	24.036	19496078	44.841 ppb	
22) t 1,3,5-trimethylbenzen...	25.278	27884929	41.555 ppb	
23) 1,2,4-trimethylbenzen...	25.756	21821644	44.364 ppb	
24) naphthalene #2	28.762	17459009	48.437 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21746624	44.232 ppb	m

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

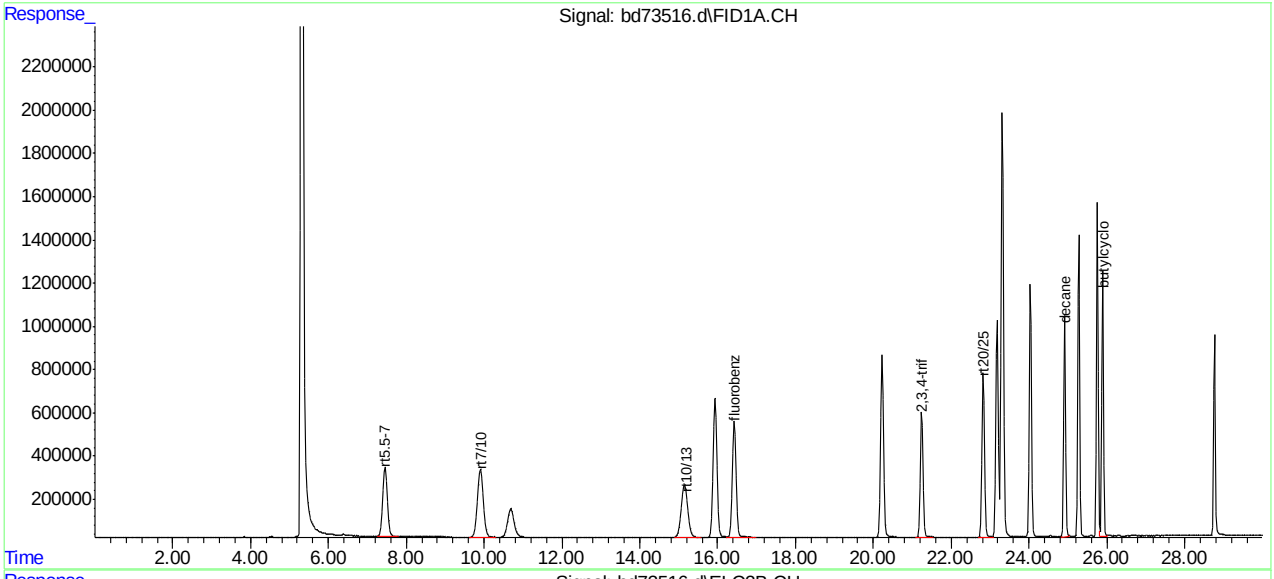
SGS ACCUTEST MC45799

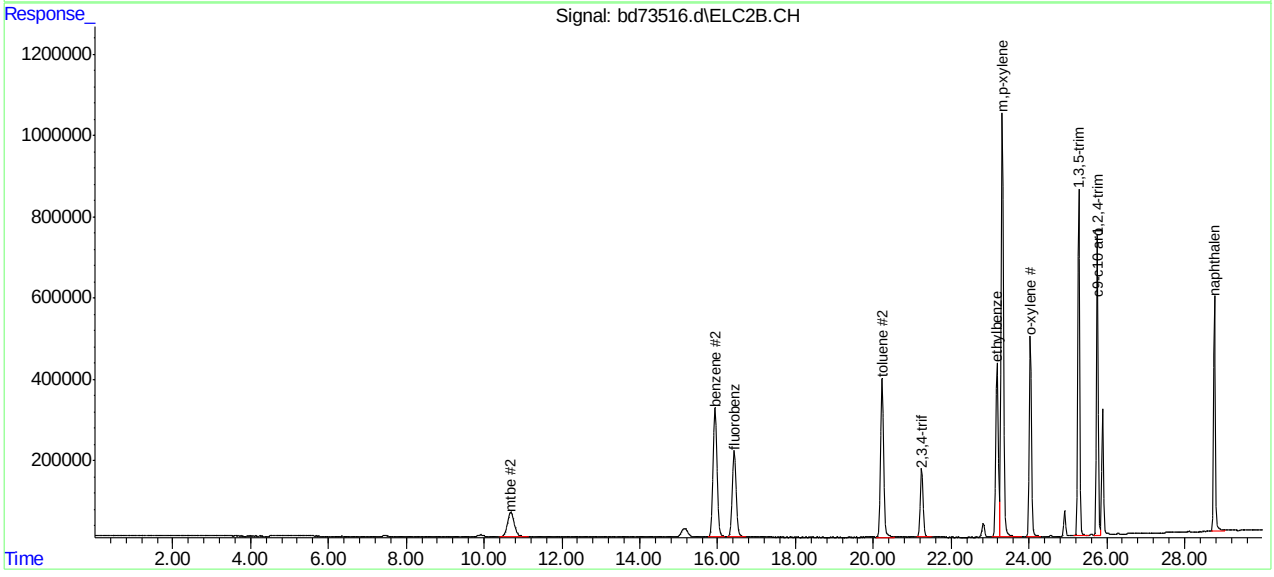
Quantitation Report (QT Reviewed)

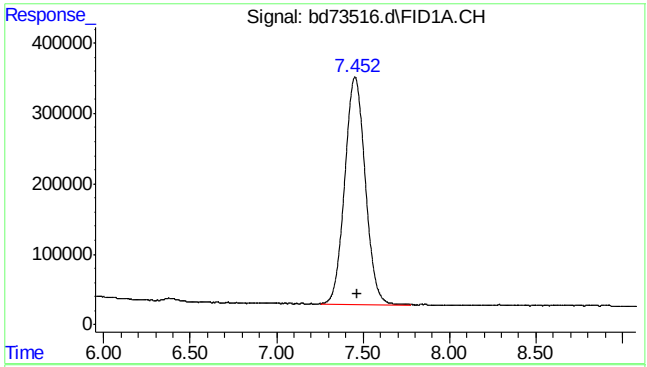
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:49:17
Operator : tonyf
Sample : bsd,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 11:46:53 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

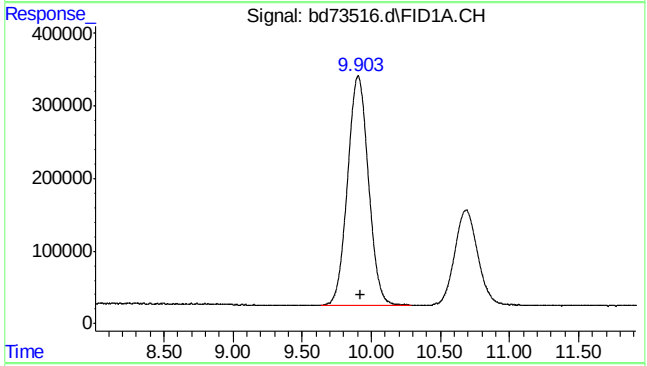






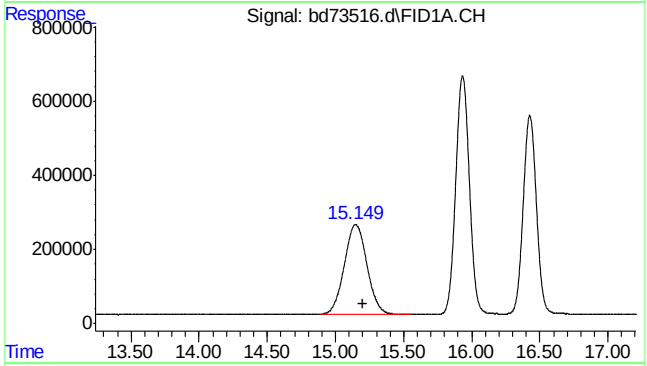
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26663253
Conc: 43.23 ppb m



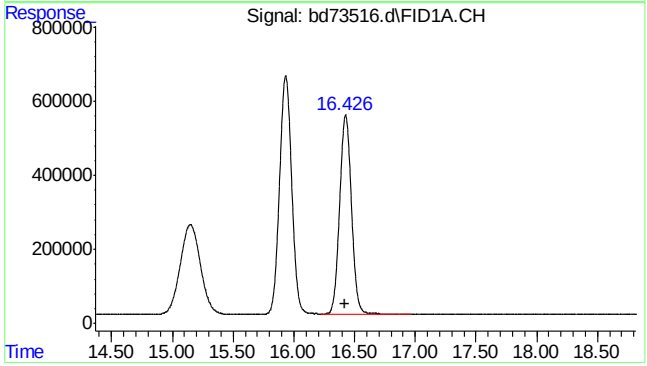
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 33296339
Conc: 53.99 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28225641
Conc: 45.77 ppb m



#4 fluorobenzene

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 36974713
Conc: 54.34 ppb

7.3.2

7

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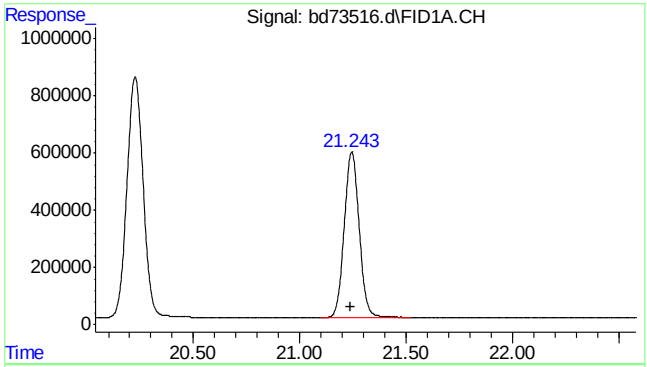
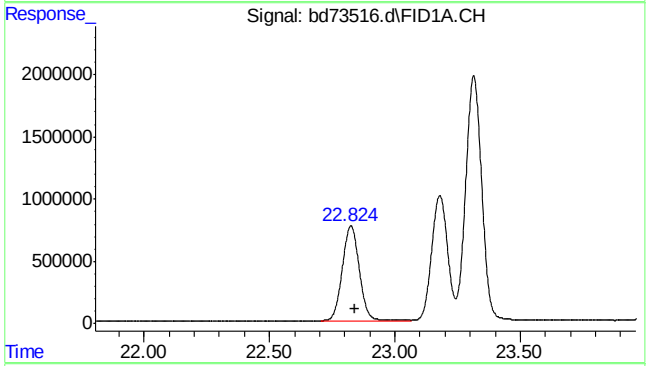


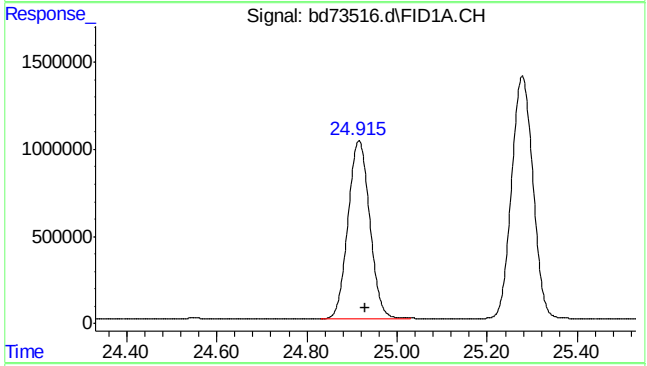
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 28583242
Conc: 54.86 ppb



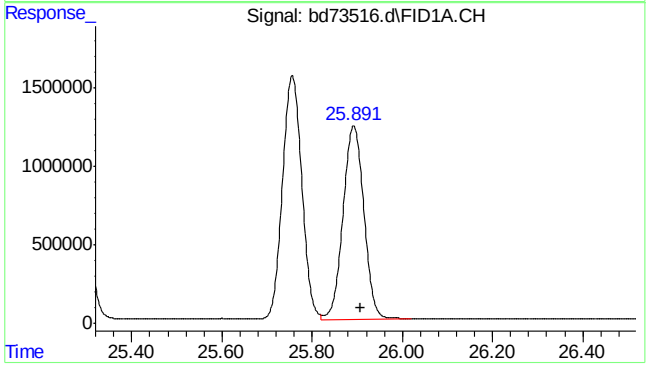
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 35731396
Conc: 44.65 ppb m



#10 decane

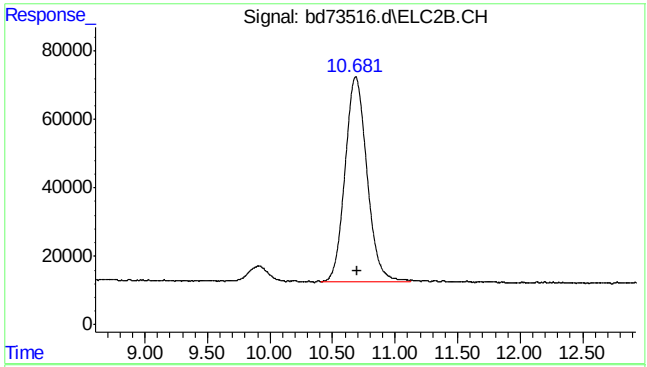
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 34556082
Conc: 43.18 ppb



#11 butylcyclohexane

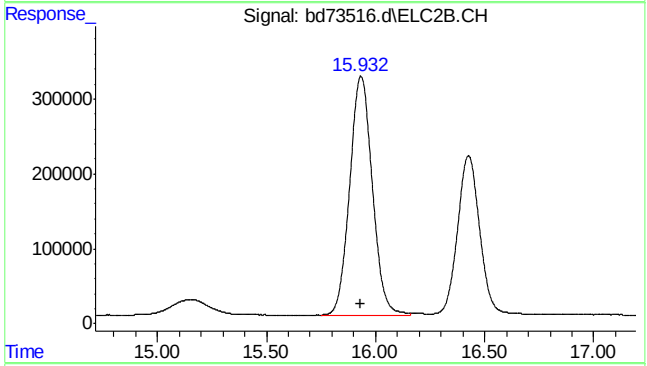
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 39864981
Conc: 49.82 ppb

SGS ACCUTEST MC45799



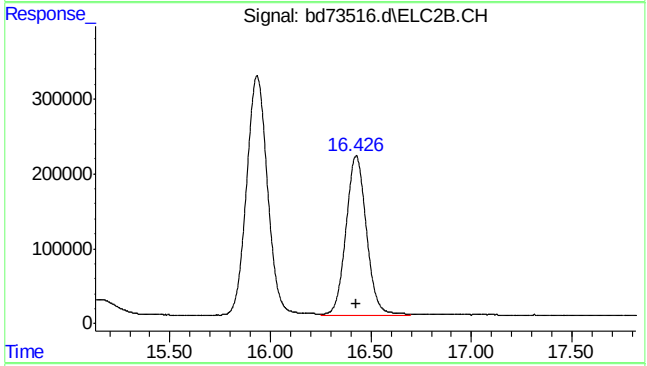
#14 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 7306845
Conc: 47.41 ppb m



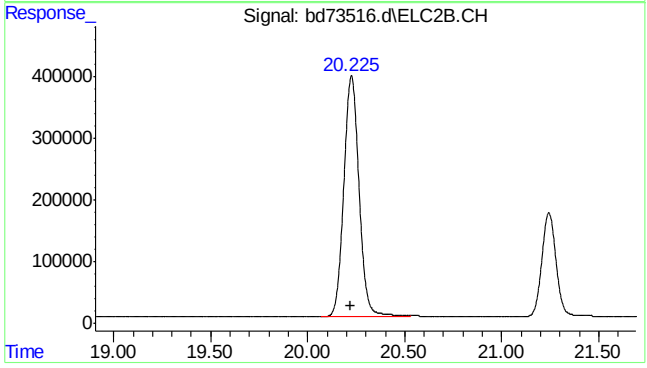
#15 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.000 min
Response: 23034518
Conc: 47.63 ppb



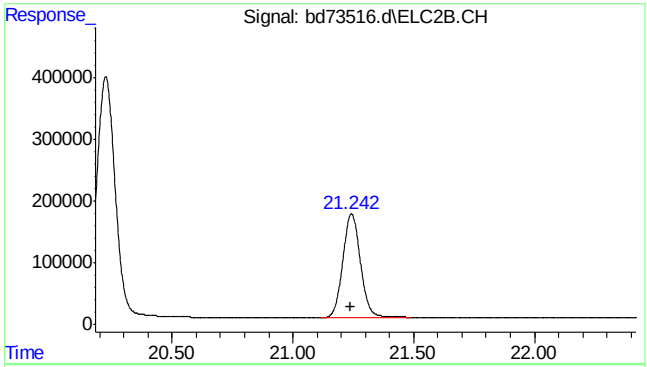
#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15108729
Conc: 44.54 ppb



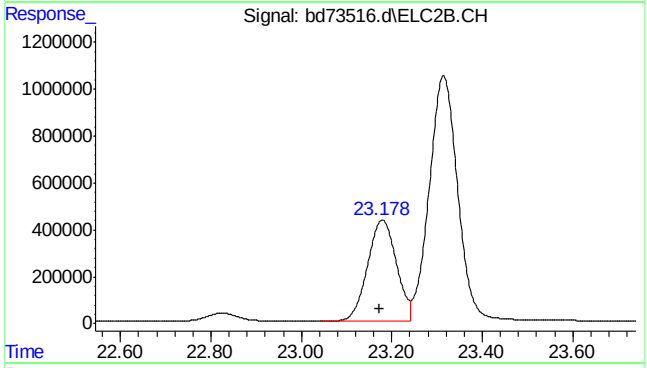
#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 21440930
Conc: 47.36 ppb



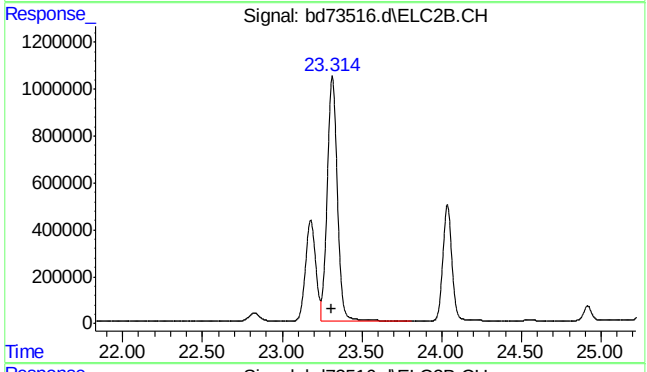
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8580689
Conc: 43.59 ppb



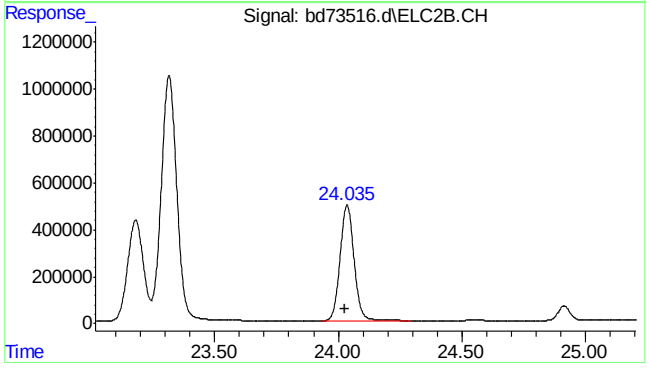
#19 ethylbenzene #2

R.T.: 23.179 min
Delta R.T.: 0.007 min
Response: 19027811
Conc: 45.85 ppb



#20 m,p-xylene #2

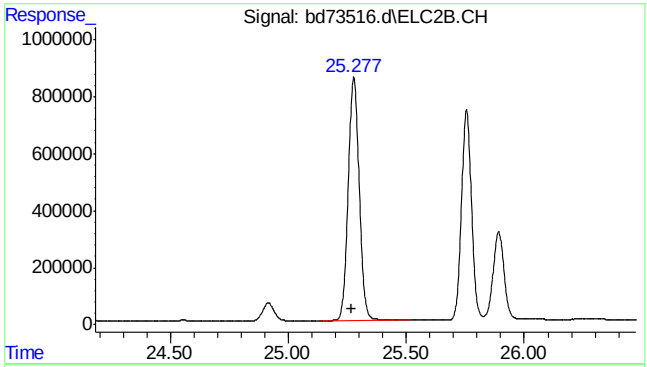
R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 46153683
Conc: 92.60 ppb



#21 o-xylene #2

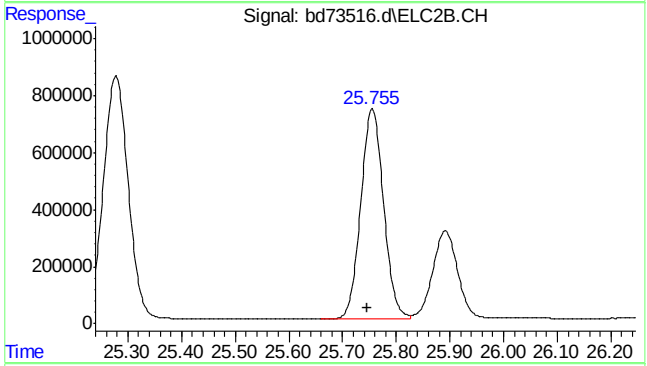
R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 19496078
Conc: 44.84 ppb

SGS ACCUTEST MC45799



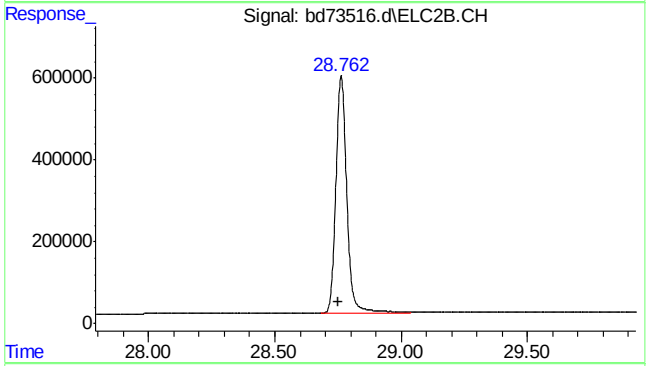
#22 1,3,5-trimethylbenzene #2

R.T.: 25.278 min
Delta R.T.: 0.010 min
Response: 27884929
Conc: 41.56 ppb



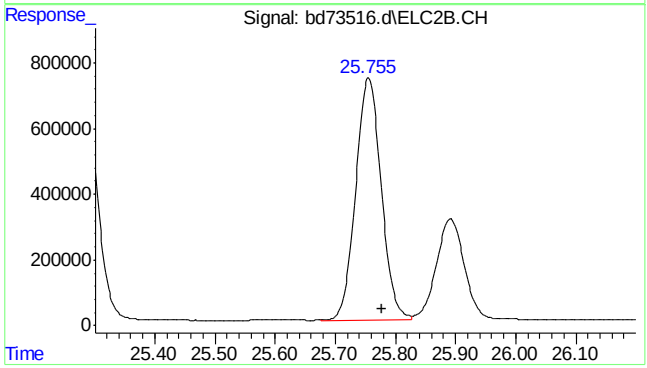
#23 1,2,4-trimethylbenzene #2

R.T.: 25.756 min
Delta R.T.: 0.010 min
Response: 21821644
Conc: 44.36 ppb



#24 naphthalene #2

R.T.: 28.762 min
Delta R.T.: 0.012 min
Response: 17459009
Conc: 48.44 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21746624
Conc: 44.23 ppb m

7.3.2

7

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 10:49:17
Operator : tonyf
Sample : bsd,s,vmavph,v8015gro,00
Misc : gc26221,gbd3632,,,,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: May 09 11:45:40 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.682min 46.336 ppb
response 7140779

(+) = Expected Retention Time
bd160509vph.M Mon May 09 11:46:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:49:17
Operator  : tonyf
Sample    : bsd,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 11:45:40 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.681min 47.414 ppb m

response 7306845

(+) = Expected Retention Time

bd160509vph.M Mon May 09 11:46:28 2016

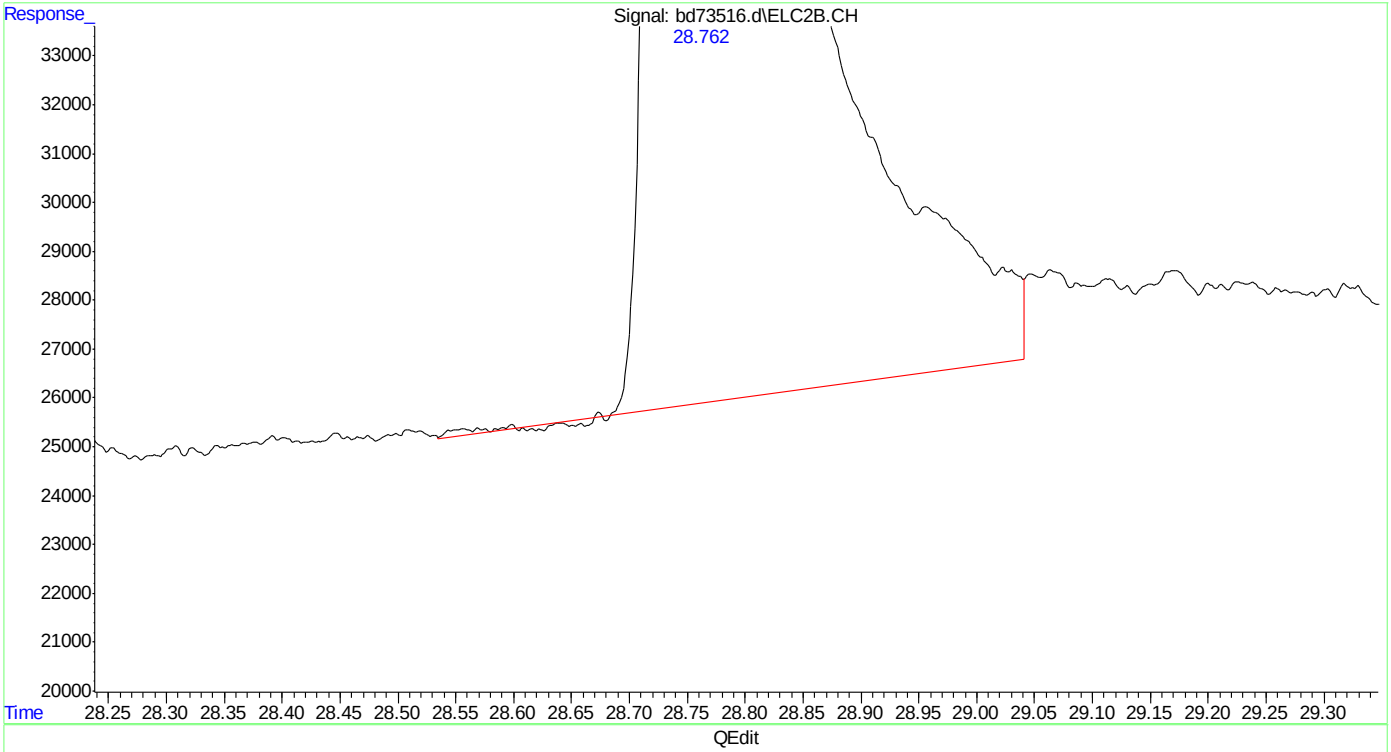
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:49:17
Operator  : tonyf
Sample    : bsd,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 11:45:40 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.763min 48.443 ppb

response 17461308

(+) = Expected Retention Time

bd160509vph.M Mon May 09 11:46:35 2016

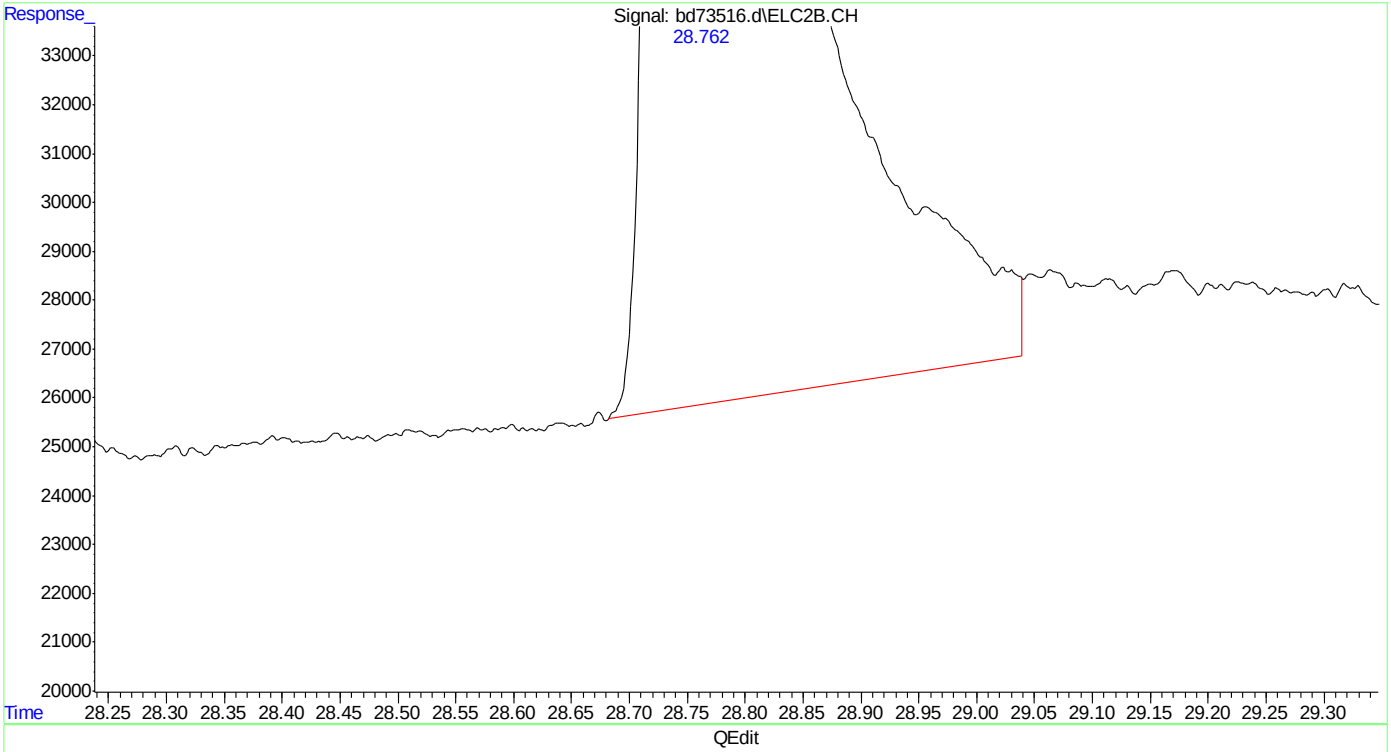
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73516.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 10:49:17
Operator  : tonyf
Sample    : bsd,s,vmavph,v8015gro,00
Misc      : gc26221,gbd3632,,,,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: May 09 11:45:40 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.762min 48.437 ppb m

response 17459009

(+) = Expected Retention Time

bd160509vph.M Mon May 09 11:46:41 2016

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73519.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 13:25:51
Operator : tonyf
Sample : mc45799-1ms,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 14:15:11 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.427	37112371	54.545	ppb	
Spiked Amount 50.000		Recovery = 109.09%			
6) s 2,3,4-trifluorotoluene	21.242	28913704	55.496	ppb	
Spiked Amount 50.000		Recovery = 110.99%			
16) s fluorobenzene #2	16.426	15104008	44.521	ppb	
Spiked Amount 50.000		Recovery = 89.04%			
18) s 2,3,4-trifluorotoluen...	21.242	8747744	44.437	ppb	
Spiked Amount 50.000		Recovery = 88.87%			
Target Compounds					
1) h rt5.5-7	7.470	31622167	51.273	ppb	
2) h rt7/10	9.920	132623344	215.037	ppb	m
3) h rt10/13	15.200	51916637	84.178	ppb	m
8) h rt20/25	22.840	378673338	473.209	ppb	m
14) mtbe #2	10.683	8057595	52.285	ppb	
15) benzene #2	15.934	23642845	48.889	ppb	
17) toluene #2	20.224	21524883	47.546	ppb	
19) ethylbenzene #2	23.177	19390639	46.723	ppb	
20) m,p-xylene #2	23.313	45194153	90.671	ppb	
21) o-xylene #2	24.035	19279850	44.343	ppb	
23) 1,2,4-trimethylbenzen...	25.754	21136552	42.971	ppb	
24) naphthalene #2	28.760	20122186	55.740	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	67096402	136.472	ppb	m

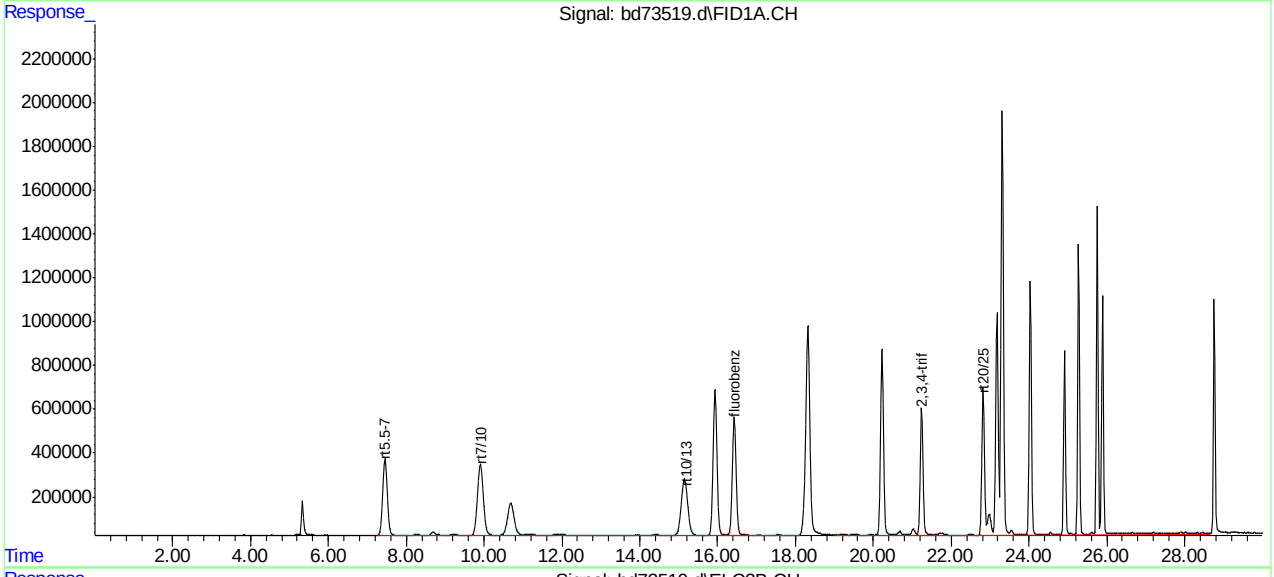
(f)=RT Delta > 1/2 Window (m)=manual int.

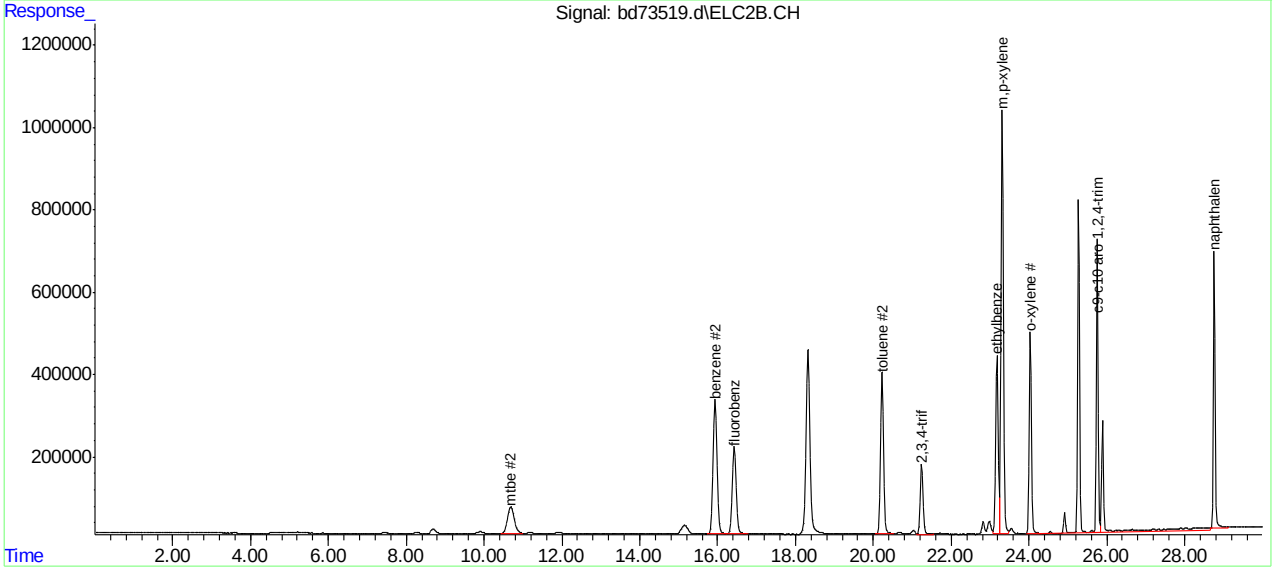
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73519.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 13:25:51
Operator : tonyf
Sample : mc45799-1ms,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

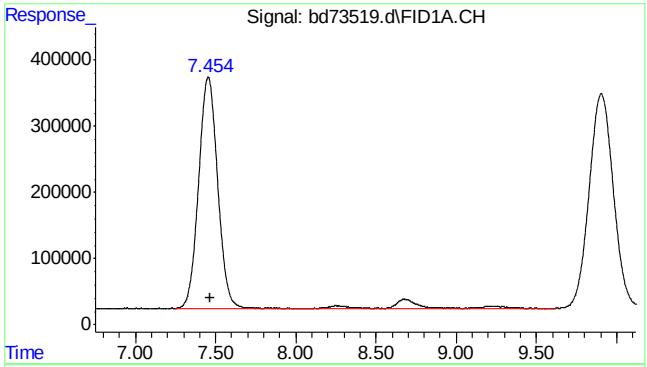
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 14:15:11 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



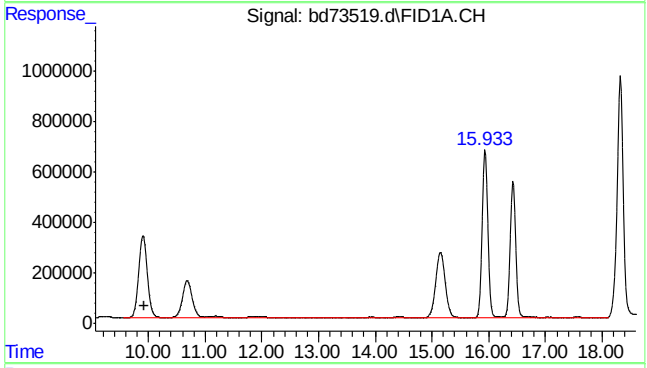


bd160509vph.M Mon May 09 14:59:31 2016 Page: 2



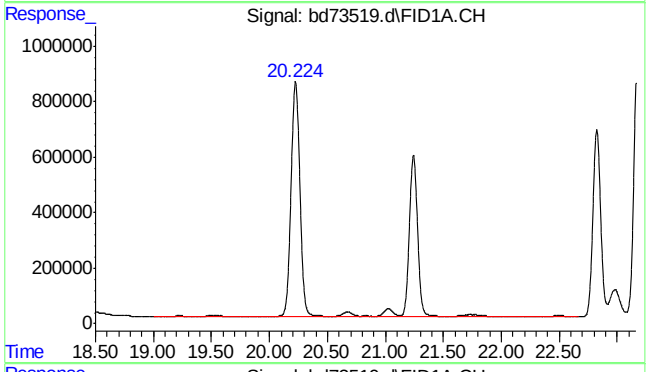
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 31622167
Conc: 51.27 ppb



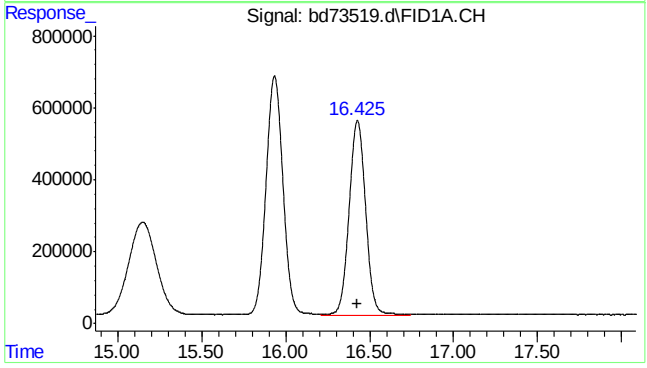
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 132623344
Conc: 215.04 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 51916637
Conc: 84.18 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 37112371
Conc: 54.54 ppb

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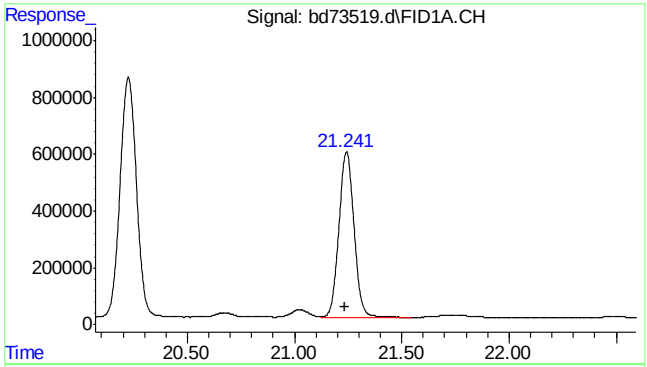
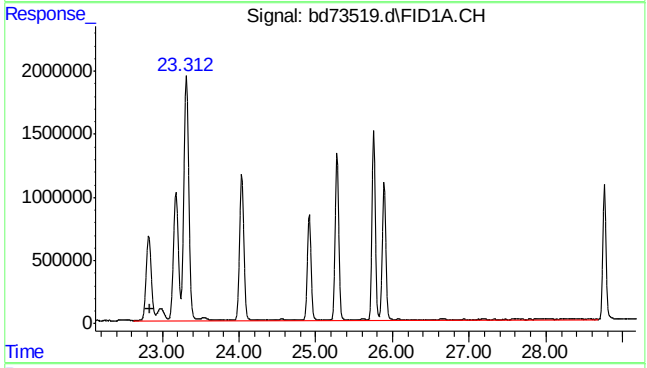


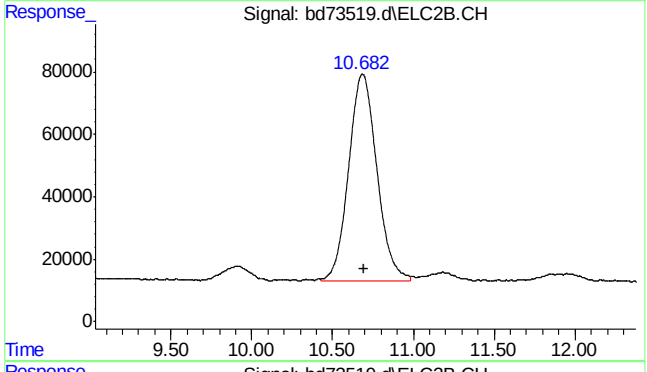
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 28913704
Conc: 55.50 ppb



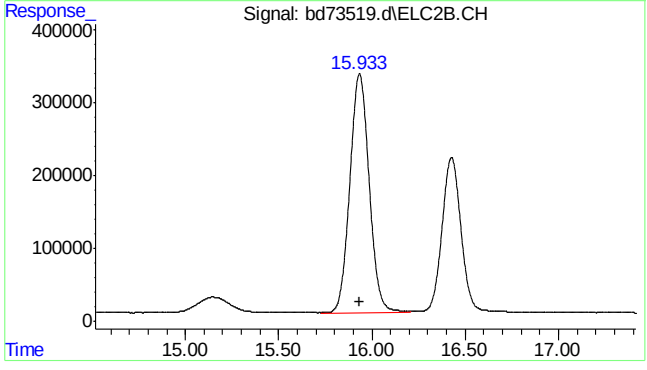
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 378673338
Conc: 473.21 ppb m



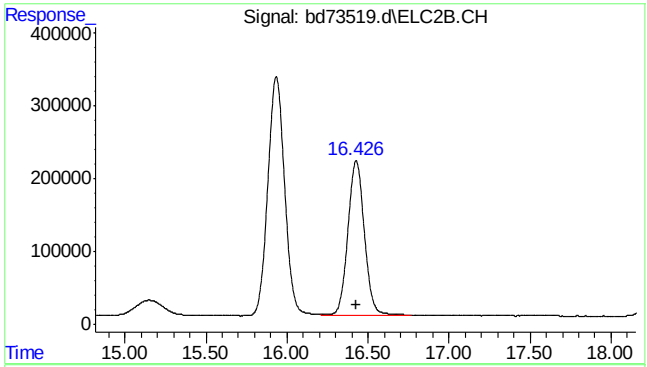
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8057595
Conc: 52.29 ppb



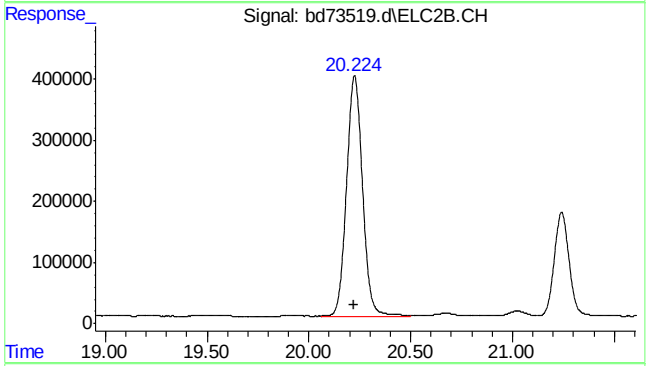
#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 23642845
Conc: 48.89 ppb



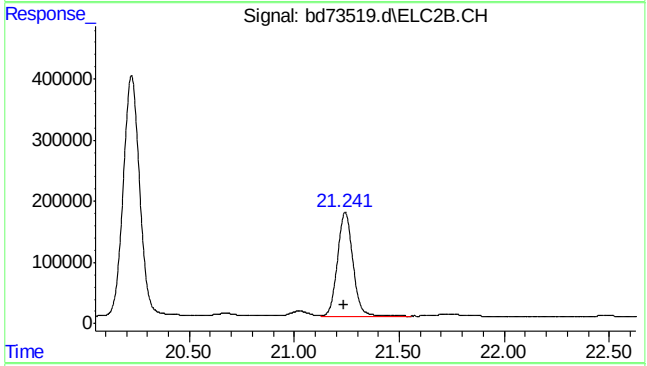
#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15104008
Conc: 44.52 ppb



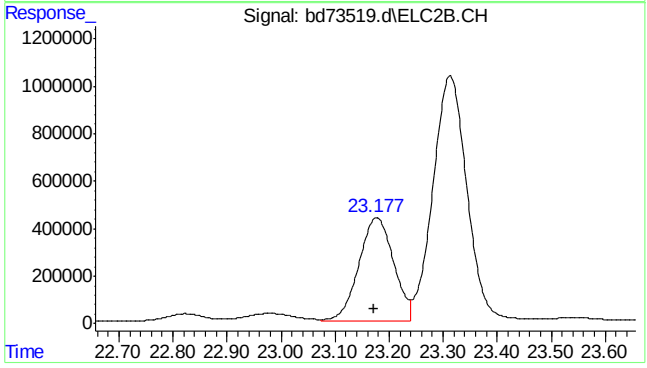
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21524883
Conc: 47.55 ppb



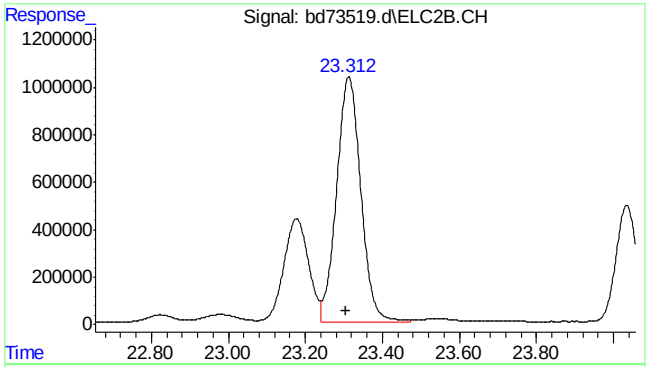
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8747744
Conc: 44.44 ppb



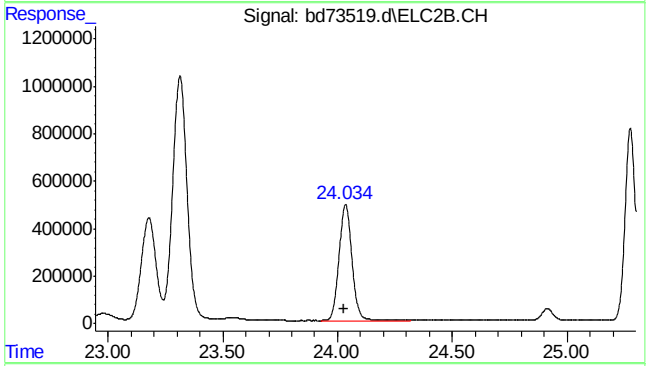
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 19390639
Conc: 46.72 ppb



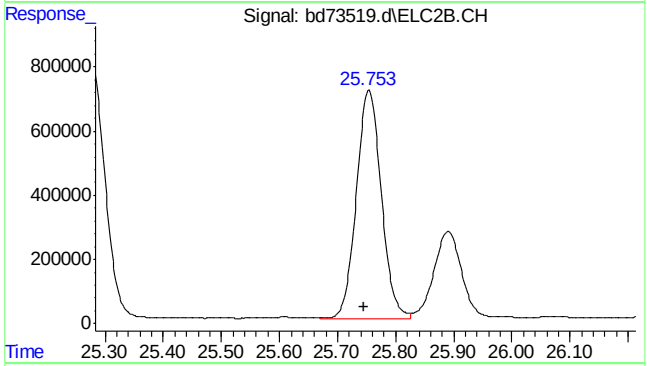
#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 45194153
Conc: 90.67 ppb



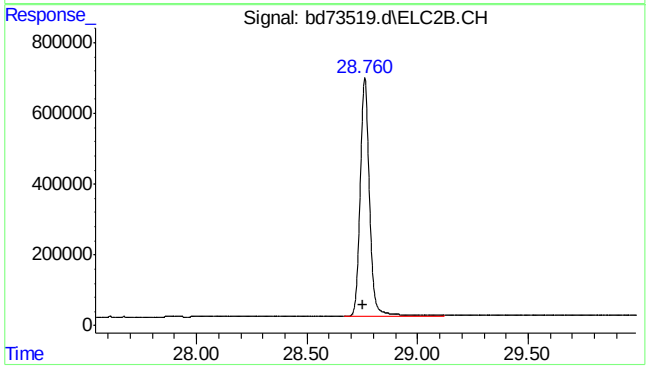
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19279850
Conc: 44.34 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21136552
Conc: 42.97 ppb



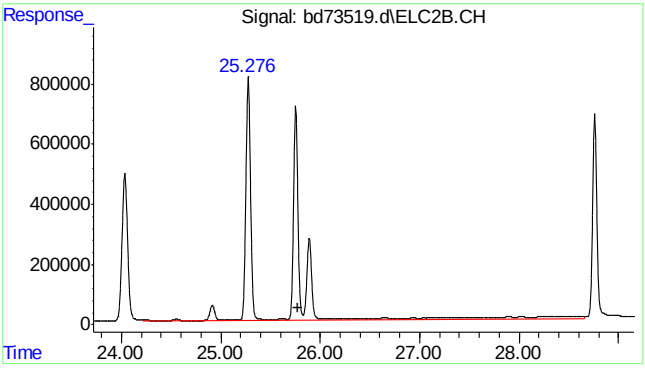
#24 naphthalene #2

R.T.: 28.760 min
Delta R.T.: 0.010 min
Response: 20122186
Conc: 55.74 ppb m

7.4.1

7

SGS ACCUTEST MC45799



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

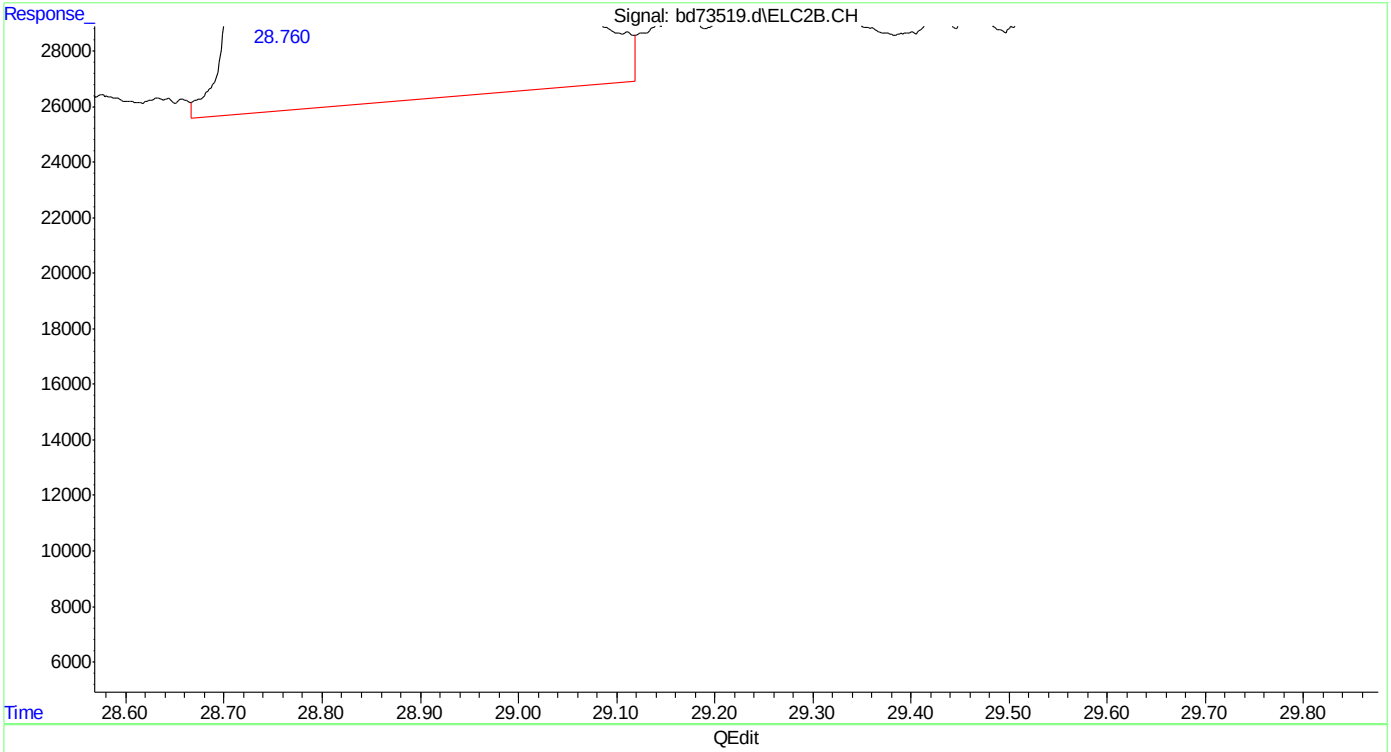
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 67096402
Conc: 136.47 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73519.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 13:25:51
Operator  : tonyf
Sample    : mc45799-1ms,w,vmavph,00
Misc      : gc26221,gbd3632,,,,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: May 09 14:13:55 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.761min 56.416 ppb

response 20368619

(+) = Expected Retention Time

bd160509vph.M Mon May 09 14:14:53 2016

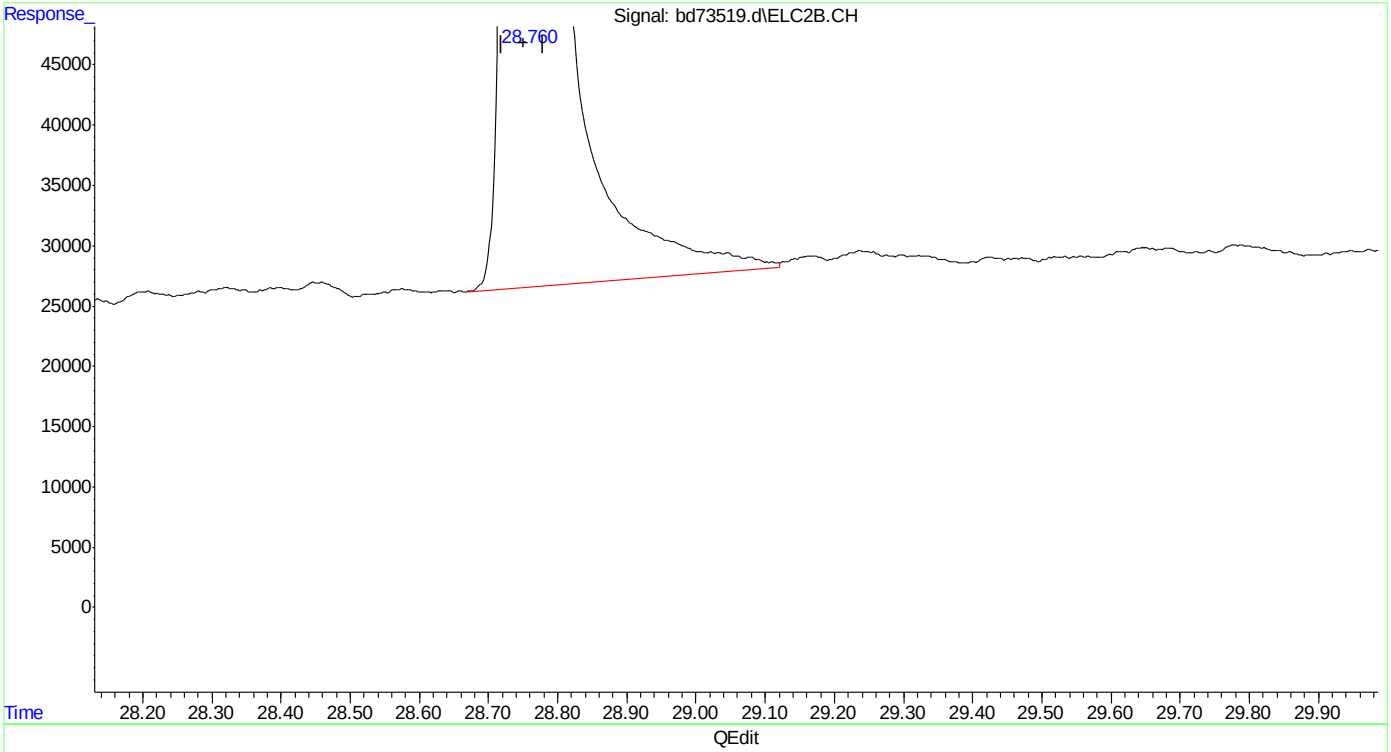
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73519.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 13:25:51
Operator : tonyf
Sample : mc45799-1ms,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 14:13:55 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.760min 55.740 ppb m
response 20122186

(+) = Expected Retention Time
bd160509vph.M Mon May 09 14:15:01 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73520.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:05:17
Operator : tonyf
Sample : mc45799-1msd,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 14:57:37 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.427	37091310	54.514	ppb	
Spiked Amount 50.000		Recovery = 109.03%			
6) s 2,3,4-trifluorotoluene	21.242	28570987	54.838	ppb	
Spiked Amount 50.000		Recovery = 109.68%			
16) s fluorobenzene #2	16.427	15235445	44.909	ppb	
Spiked Amount 50.000		Recovery = 89.82%			
18) s 2,3,4-trifluorotoluen...	21.242	8705515	44.223	ppb	
Spiked Amount 50.000		Recovery = 88.45%			
Target Compounds					
1) h rt5.5-7	7.470	30716341	49.804	ppb	m
2) h rt7/10	9.920	132859023	215.419	ppb	m
3) h rt10/13	15.200	50912177	82.550	ppb	m
8) h rt20/25	22.840	380507226	475.501	ppb	m
14) mtbe #2	10.687	8019918	52.041	ppb	
15) benzene #2	15.934	23680036	48.966	ppb	
17) toluene #2	20.225	21481049	47.449	ppb	
19) ethylbenzene #2	23.178	19284953	46.468	ppb	
20) m,p-xylene #2	23.313	44887347	90.055	ppb	
21) o-xylene #2	24.035	19183357	44.121	ppb	
23) 1,2,4-trimethylbenzen...	25.754	21115005	42.928	ppb	
24) naphthalene #2	28.761	20707876	57.346	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	67897313	138.101	ppb	m

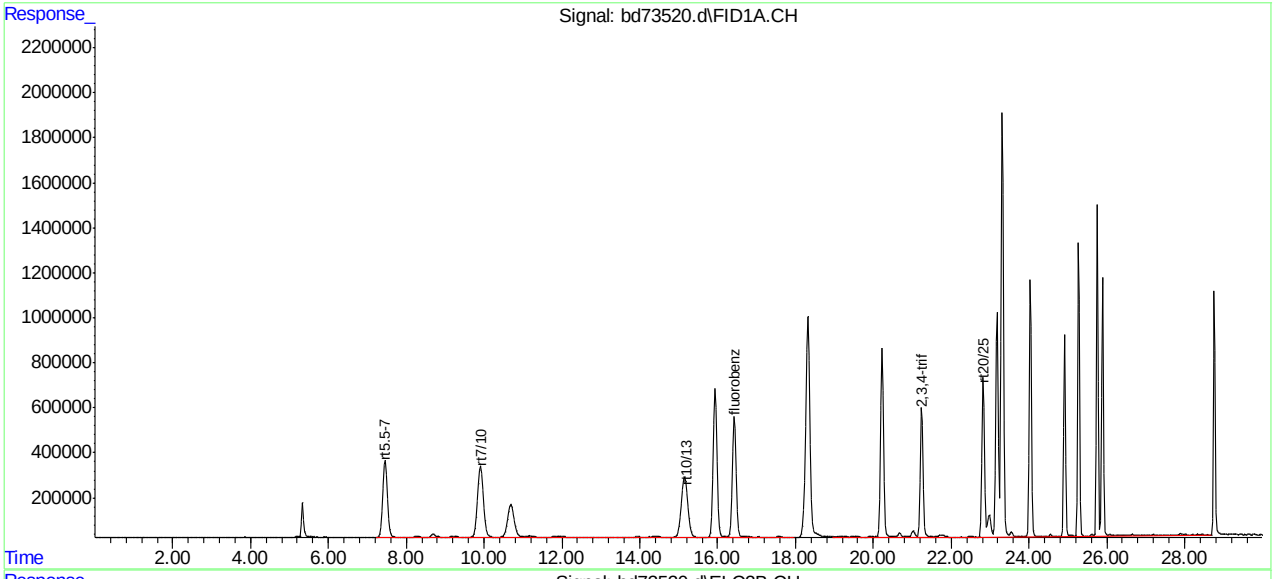
(f)=RT Delta > 1/2 Window (m)=manual int.

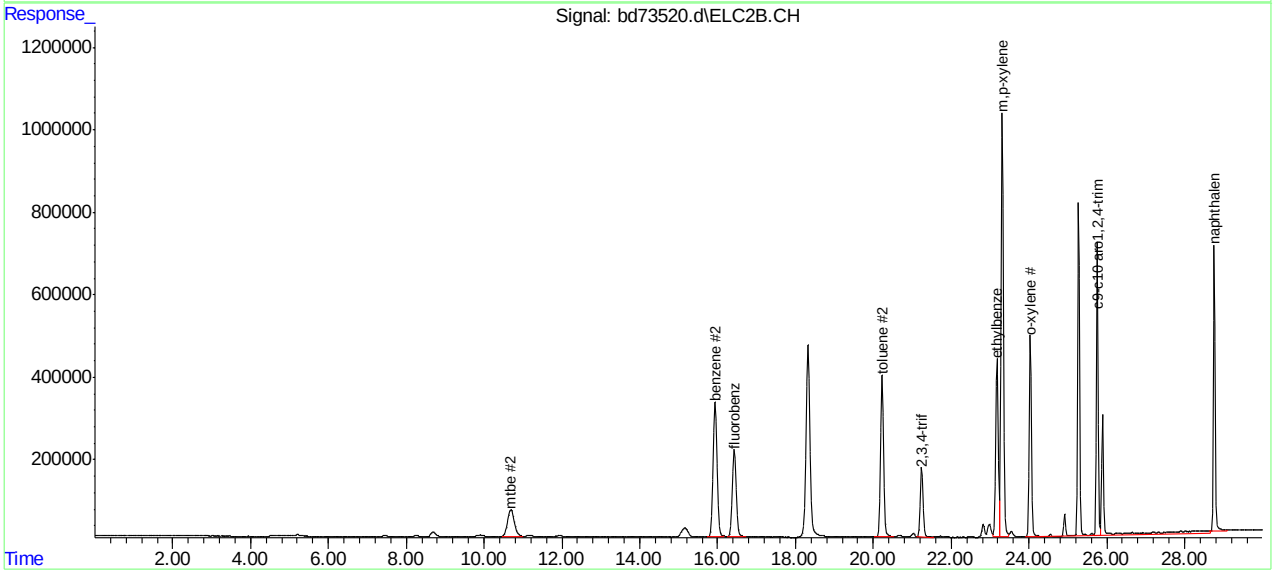
Quantitation Report (QT Reviewed)

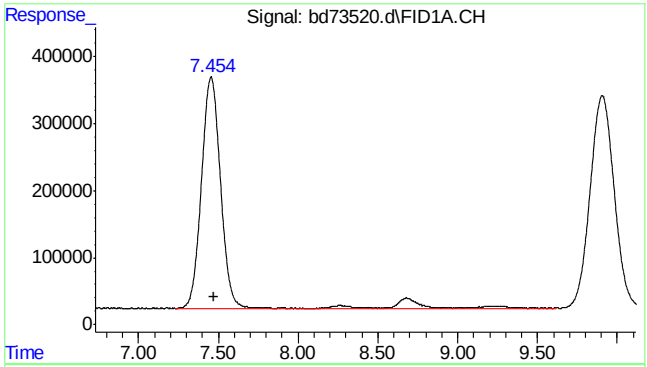
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73520.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:05:17
Operator : tonyf
Sample : mc45799-1msd,w,vmavph,00
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 14:57:37 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

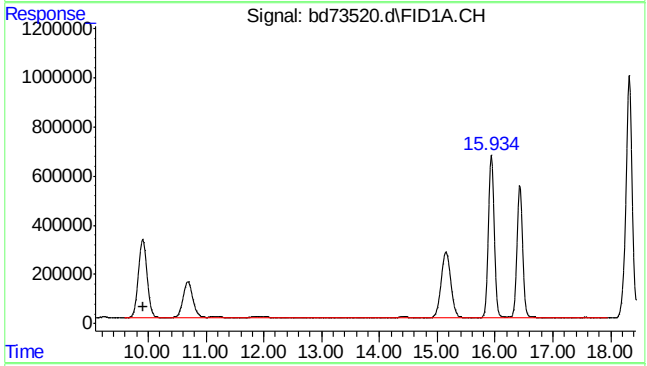






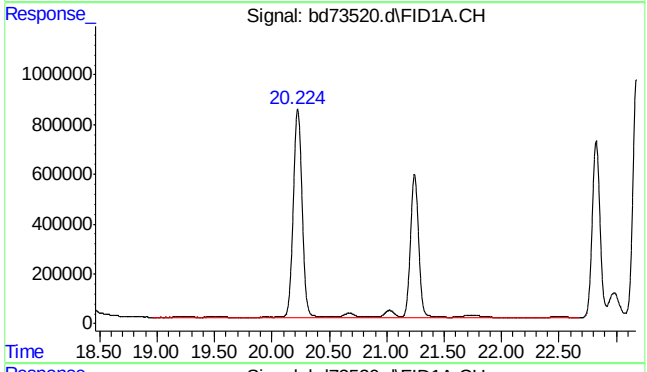
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 30716341
Conc: 49.80 ppb m



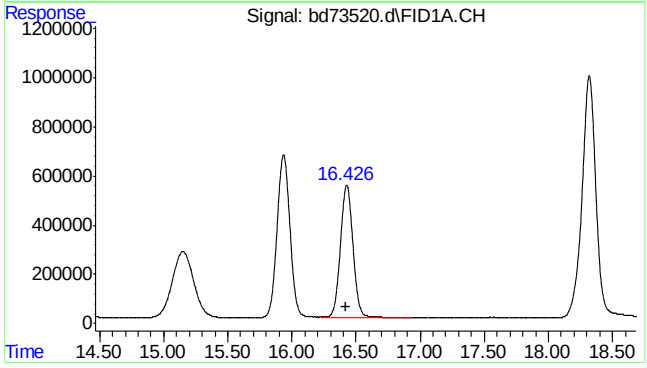
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 132859023
Conc: 215.42 ppb m



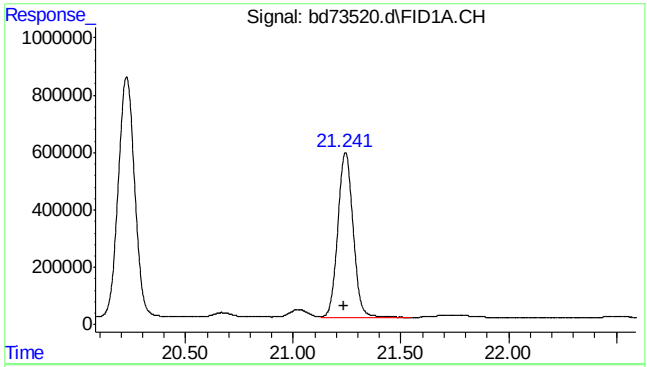
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 50912177
Conc: 82.55 ppb m



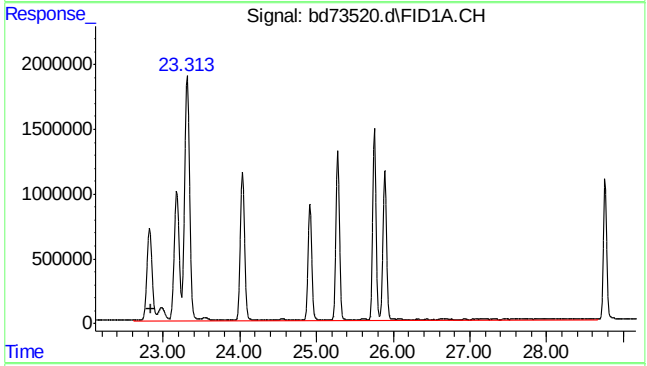
#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 37091310
Conc: 54.51 ppb



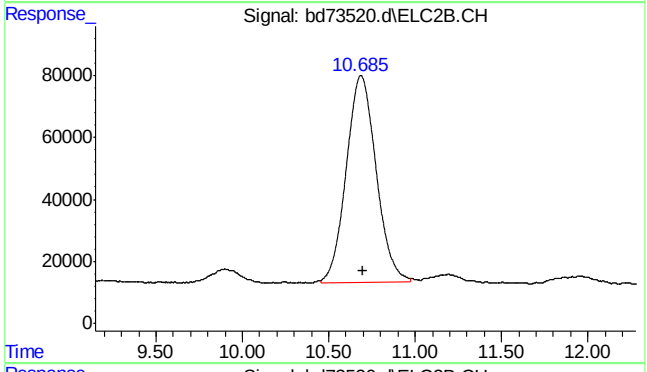
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 28570987
Conc: 54.84 ppb



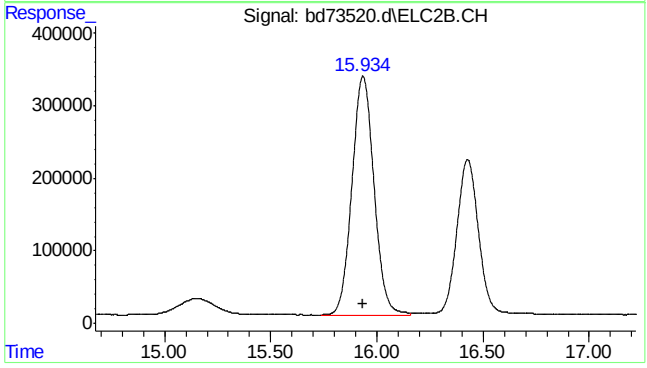
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 380507226
Conc: 475.50 ppb m



#14 mtbe #2

R.T.: 10.687 min
Delta R.T.: -0.009 min
Response: 8019918
Conc: 52.04 ppb



#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 23680036
Conc: 48.97 ppb

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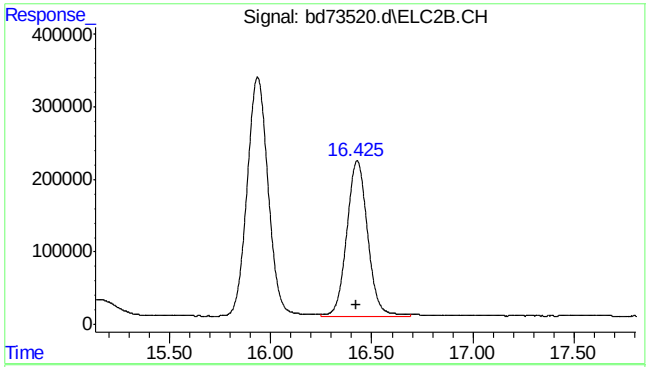
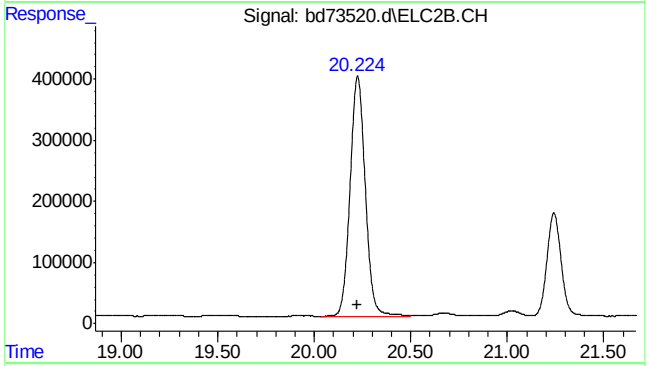


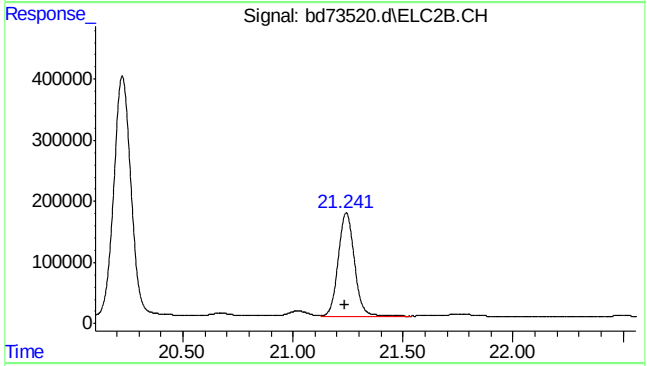
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 15235445
Conc: 44.91 ppb



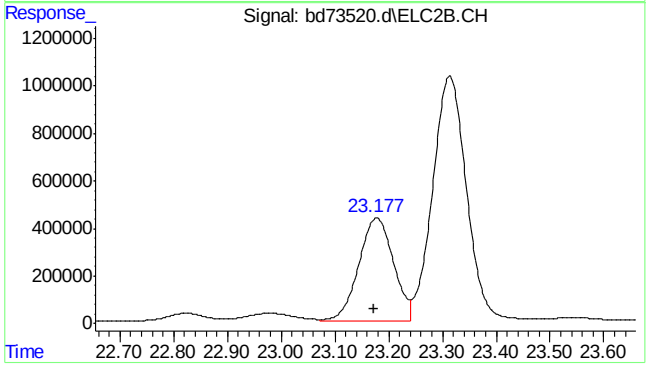
#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 21481049
Conc: 47.45 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8705515
Conc: 44.22 ppb



#19 ethylbenzene #2

R.T.: 23.178 min
Delta R.T.: 0.006 min
Response: 19284953
Conc: 46.47 ppb

7.4.2

7

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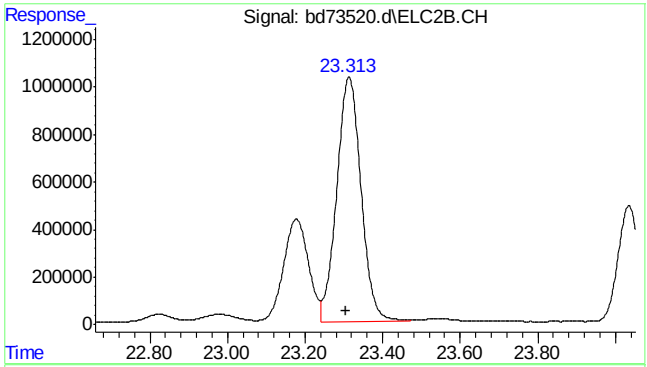
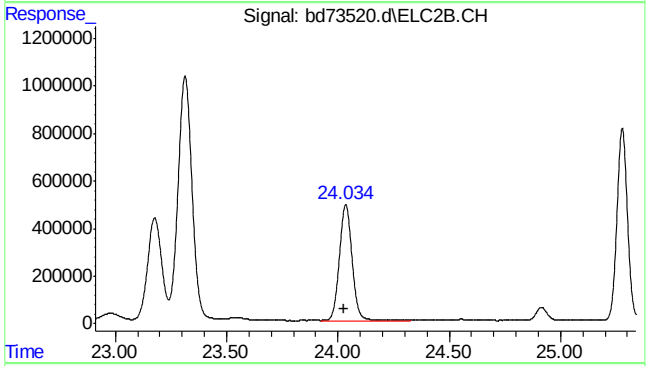


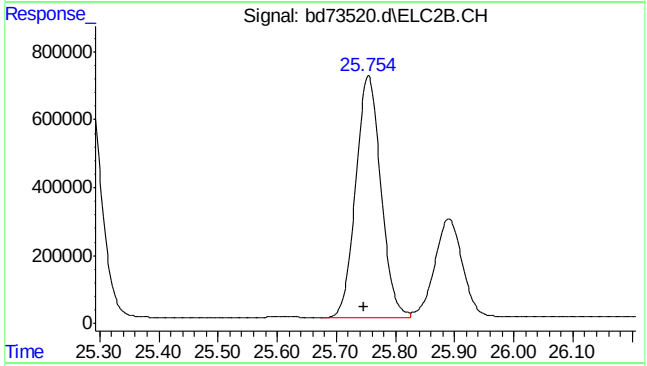
#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 44887347
Conc: 90.06 ppb



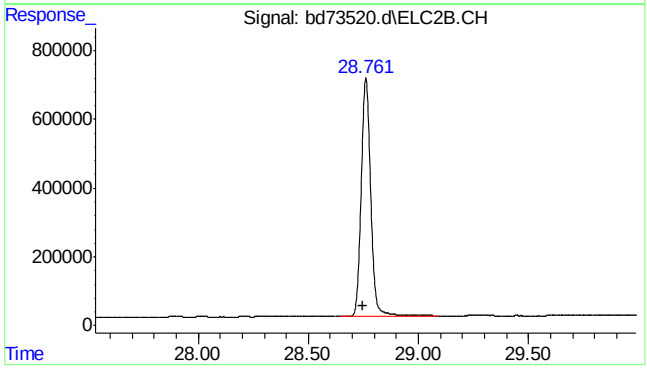
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19183357
Conc: 44.12 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21115005
Conc: 42.93 ppb



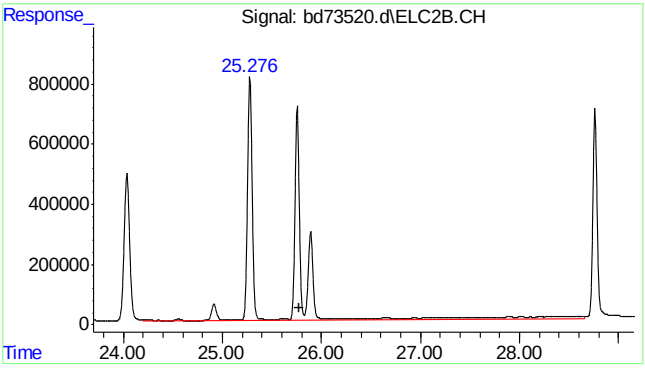
#24 naphthalene #2

R.T.: 28.761 min
Delta R.T.: 0.011 min
Response: 20707876
Conc: 57.35 ppb m

7.4.2

7

SGS ACCUTEST MC45799



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 67897313
Conc: 138.10 ppb m

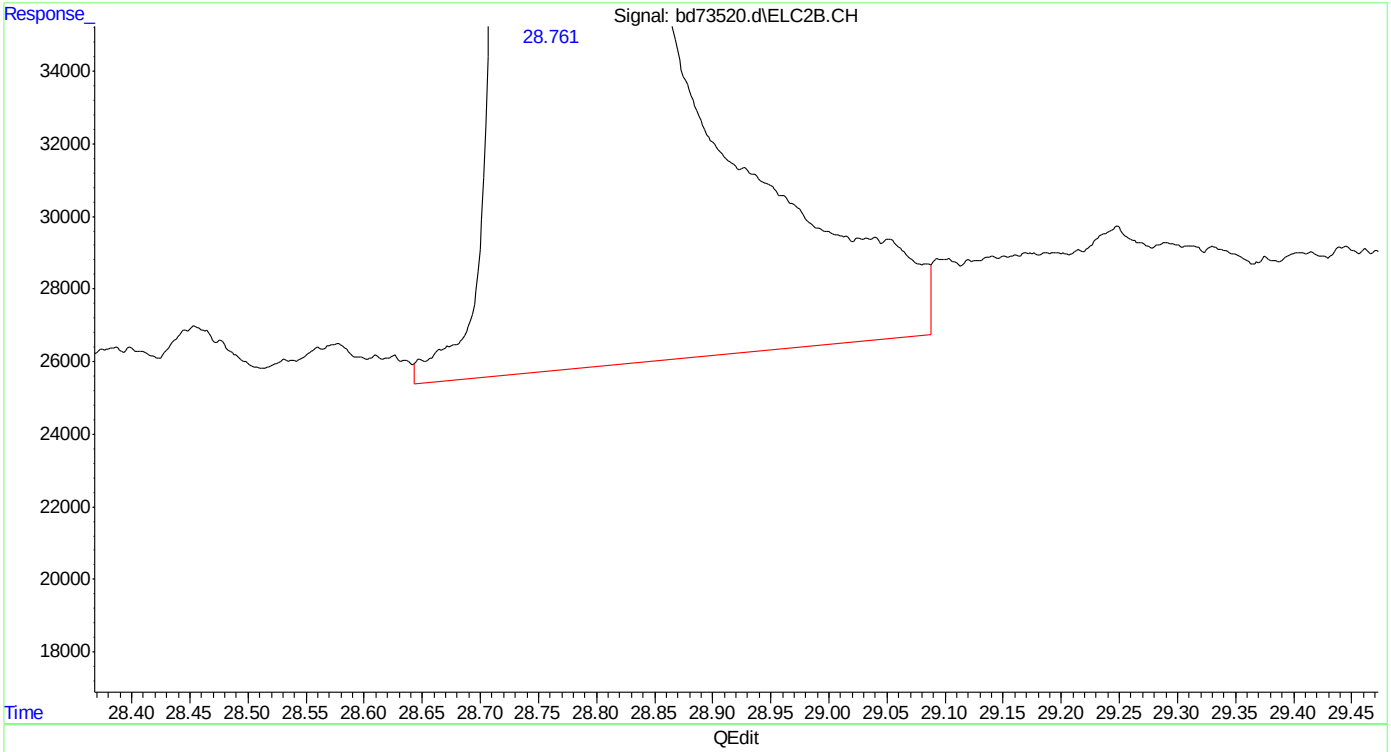
7.4.2

7

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73520.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:05:17
Operator  : tonyf
Sample    : mc45799-1msd,w,vmavph,00
Misc      : gc26221,gbd3632,,,,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: May 09 14:56:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.761min 57.946 ppb

response 20926469

(+) = Expected Retention Time

bd160509vph.M Mon May 09 14:57:22 2016

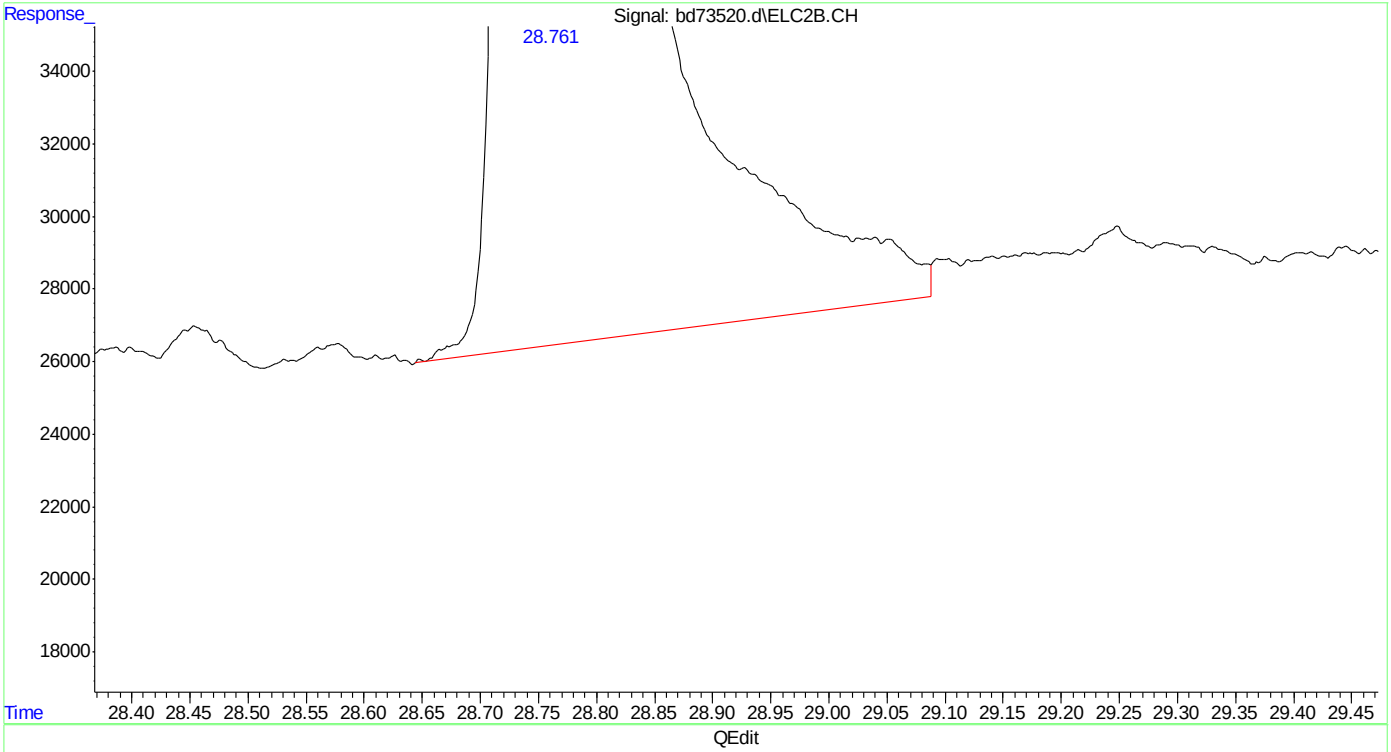
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73520.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:05:17
Operator : tonyf
Sample : mc45799-1msd,w,vmavph,00
Misc : gc26221,gbd3632,,,,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: May 09 14:56:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.761min 57.346 ppb m
response 20707876

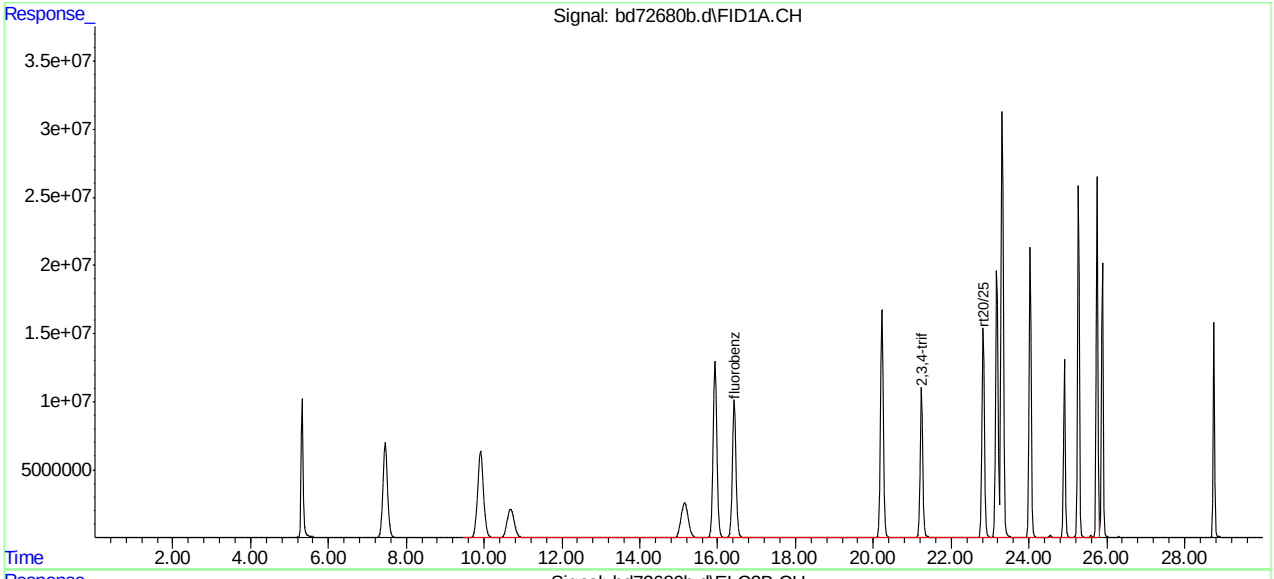
(+) = Expected Retention Time
bd160509vph.M Mon May 09 14:57:28 2016

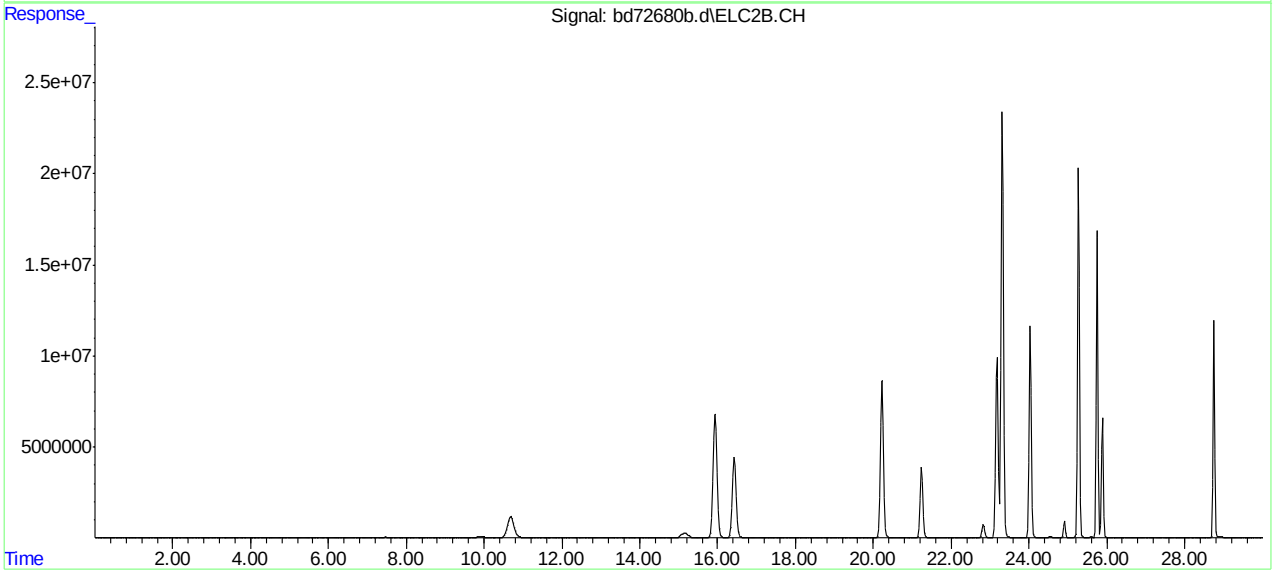
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 07:38:29
Operator  : tonyf
Sample    : ic3577-13000 (Sig #1); ic3752-1000 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:58:49 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:57:34 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
 1) s   fluorobenzene              16.425f     657317120  971.344 ppb
Spiked Amount     50.000                      Recovery   = 1942.69%
 2) s   2,3,4-trifluorotoluene     21.238f     506533597  962.691 ppb
Spiked Amount     50.000                      Recovery   = 1925.38%

 Target Compounds
 3) h   rt20/25                    22.830     8884823343 11562.920 ppb  m
 ---------------------------------------------------------------------------

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

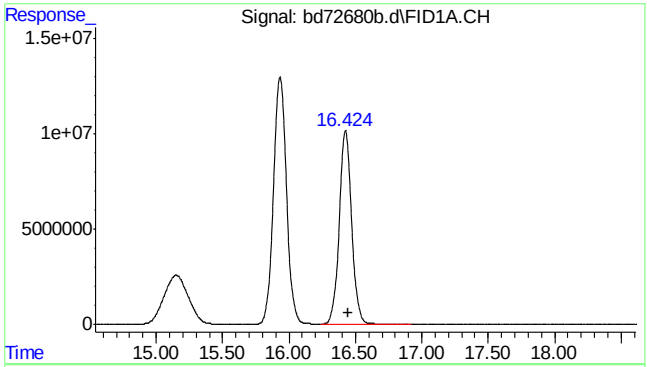
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 07:38:29
Operator  : tonyf
Sample    : ic3577-13000 (Sig #1); ic3752-1000 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:58:49 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:57:34 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 :
```



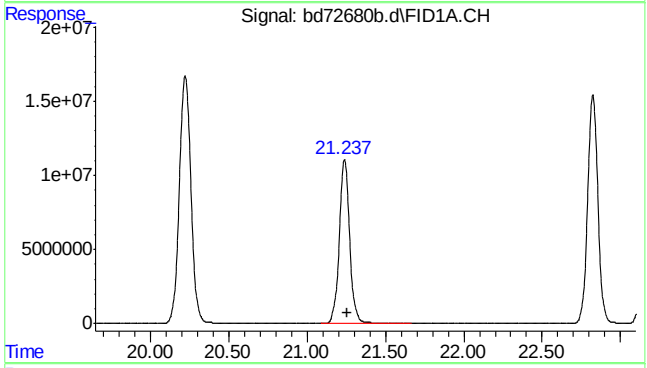


SGS ACCUTEST MC45799



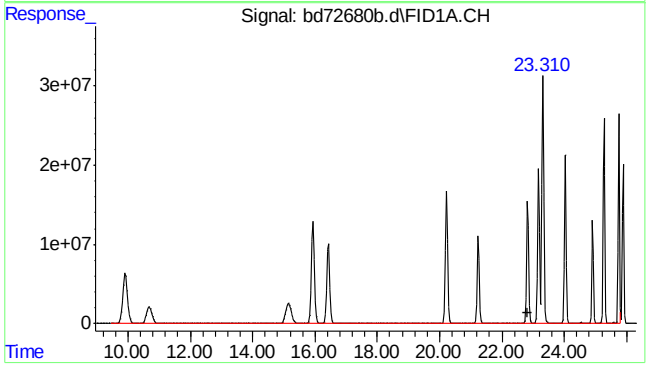
#1 fluorobenzene

```
      R.T.:   16.425 min
Delta R.T.:   -0.018 min
  Response: 657317120
      Conc: 971.34 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.238 min
Delta R.T.:   -0.016 min
  Response: 506533597
      Conc: 962.69 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 8884823343
      Conc: 11562.92 ppb m
```

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3577-6500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:57:22 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:55:48 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

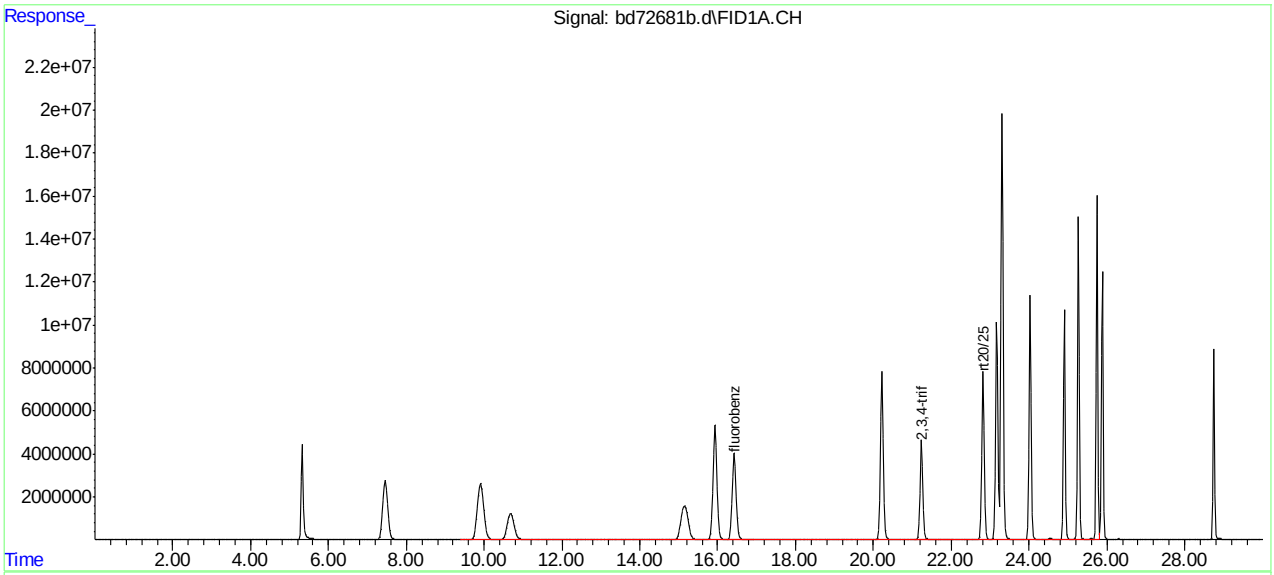
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

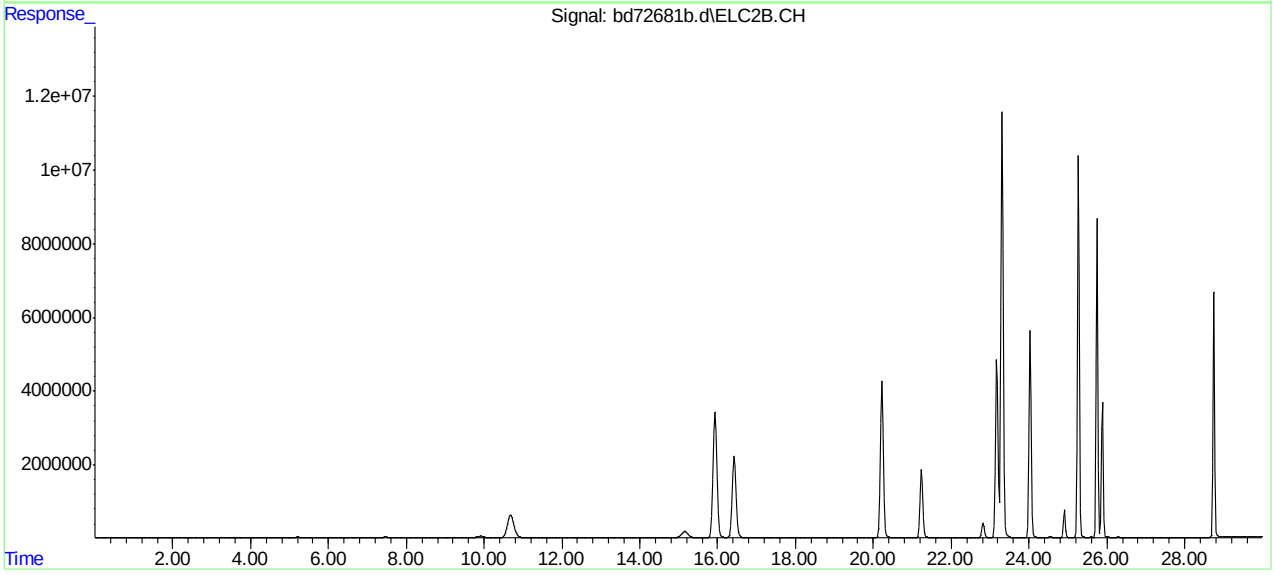
Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
1) s fluorobenzene	16.424f	280256461	400.396 ppb
Spiked Amount 50.000		Recovery = 800.79%	
2) s 2,3,4-trifluorotoluene	21.236f	223973992	413.383 ppb
Spiked Amount 50.000		Recovery = 826.77%	
Target Compounds			
3) h rt20/25	22.830	4682054754	6018.036 ppb m

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

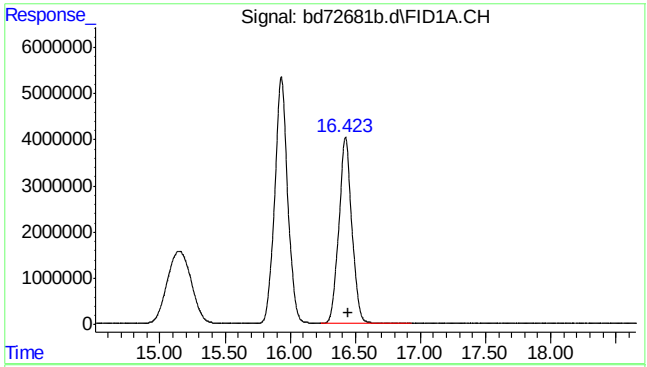
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 08:15:10
Operator  : tonyf
Sample    : ic3577-6500 (Sig #1); ic3752-500 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:57:22 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:55:48 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



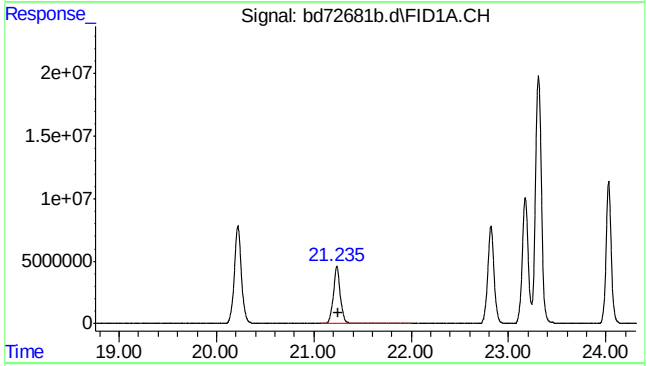


SGS ACCUTEST MC45799



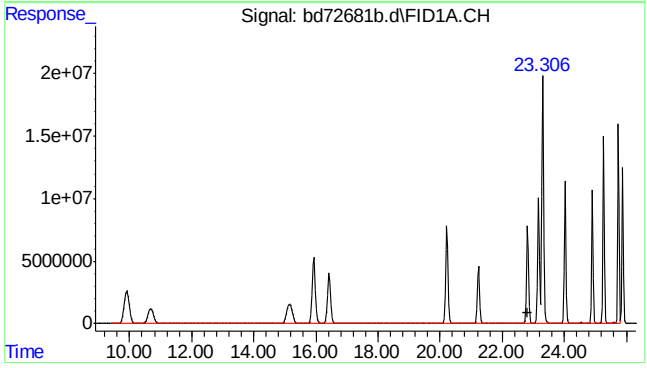
#1 fluorobenzene

```
      R.T.:   16.424 min
Delta R.T.:   -0.019 min
  Response: 280256461
      Conc: 400.40 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.236 min
Delta R.T.:   -0.018 min
  Response: 223973992
      Conc: 413.38 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 4682054754
      Conc: 6018.04 ppb m
```

7.5.2

7

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3577-3250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:54:41 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:51:00 2016
Response via : Initial 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			
1) s fluorobenzene	16.424f	152497733	217.870 ppb
Spiked Amount 50.000		Recovery = 435.74%	
2) s 2,3,4-trifluorotoluene	21.236f	112527515	207.689 ppb
Spiked Amount 50.000		Recovery = 415.38%	
Target Compounds			
3) h rt20/25	22.830	2385605249	3065.998 ppb m

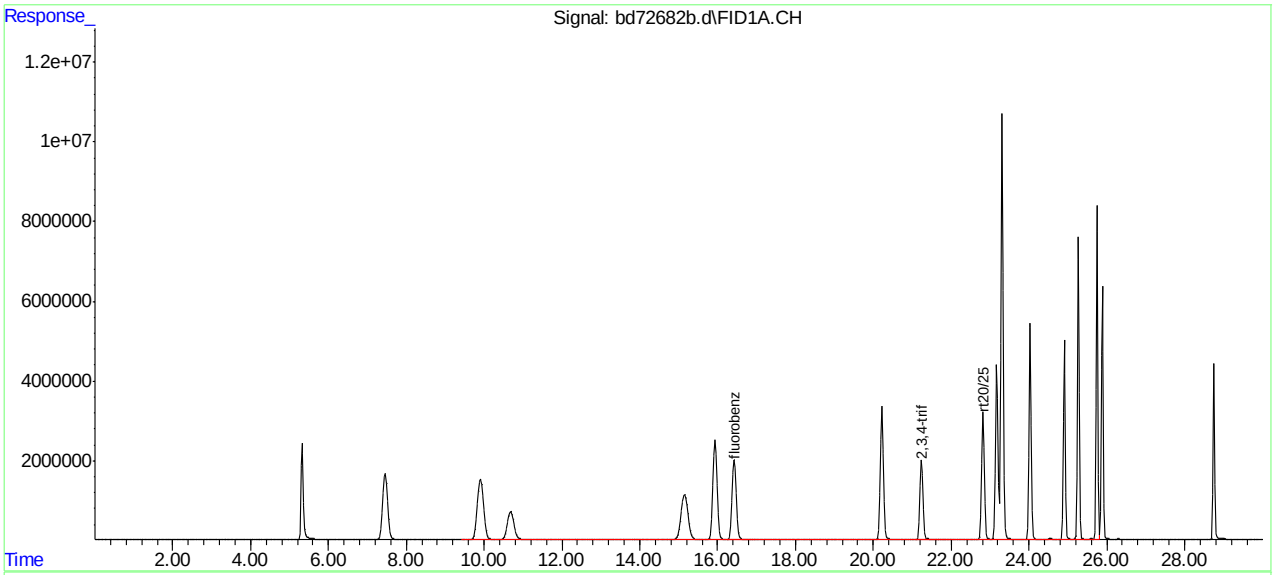
(f)=RT Delta > 1/2 Window (m)=manual int.

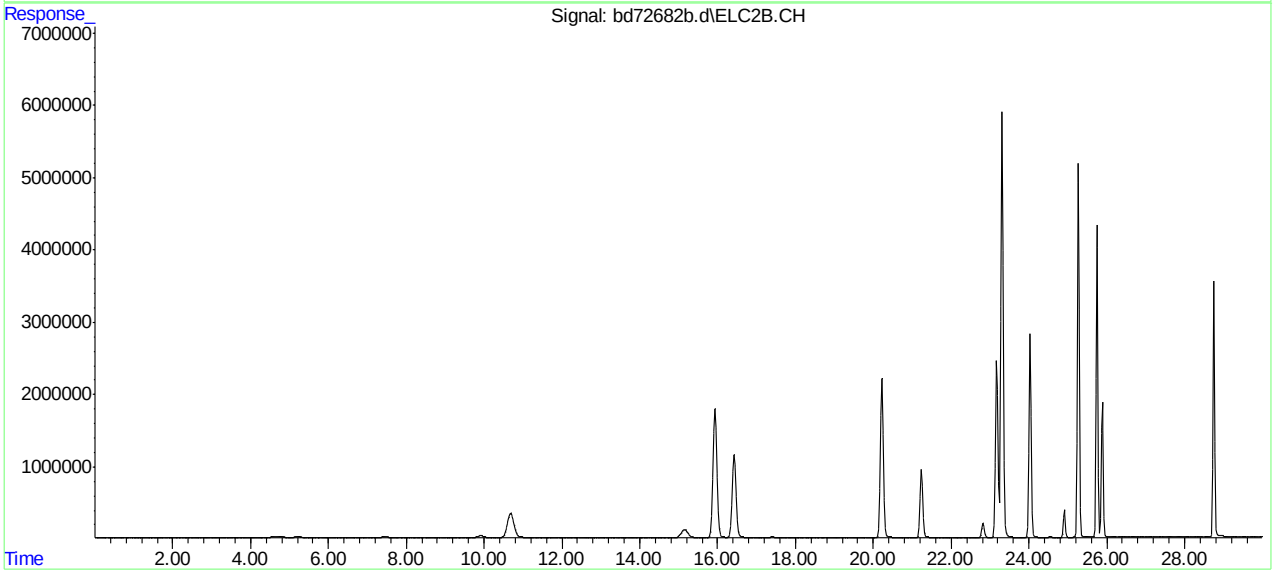
Quantitation Report (QT Reviewed)

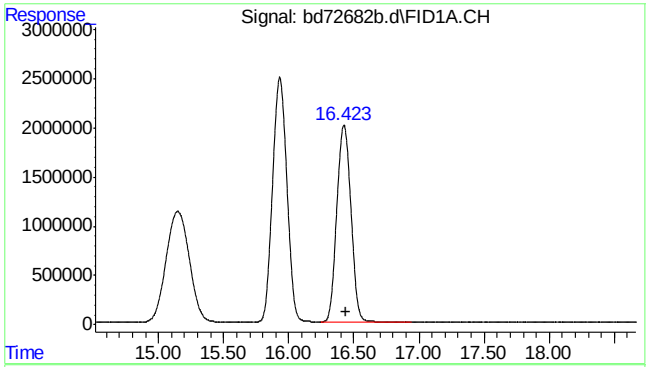
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3577-3250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 15:54:41 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:51:00 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

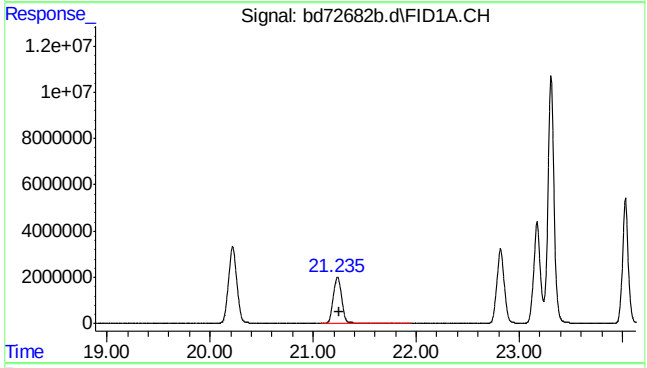






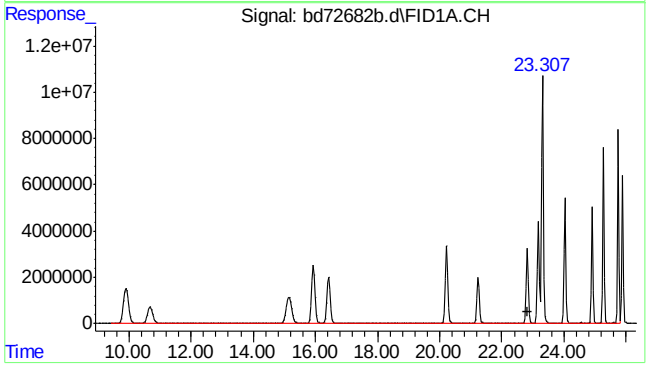
#1 fluorobenzene

```
      R.T.:   16.424 min
Delta R.T.:   -0.020 min
  Response: 152497733
      Conc: 217.87 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.236 min
Delta R.T.:   -0.018 min
  Response: 112527515
      Conc: 207.69 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 2385605249
      Conc: 3066.00 ppb m
```


SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3577-1300 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:46:48 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:45:39 2016
Response via : Initial 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			
1) s fluorobenzene	16.423f	70079072	96.044 ppb
Spiked Amount 50.000		Recovery =	192.09%
2) s 2,3,4-trifluorotoluene	21.235f	54927490	96.384 ppb
Spiked Amount 50.000		Recovery =	192.77%
Target Compounds			
3) h rt20/25	22.830	980345391	1224.475 ppb m

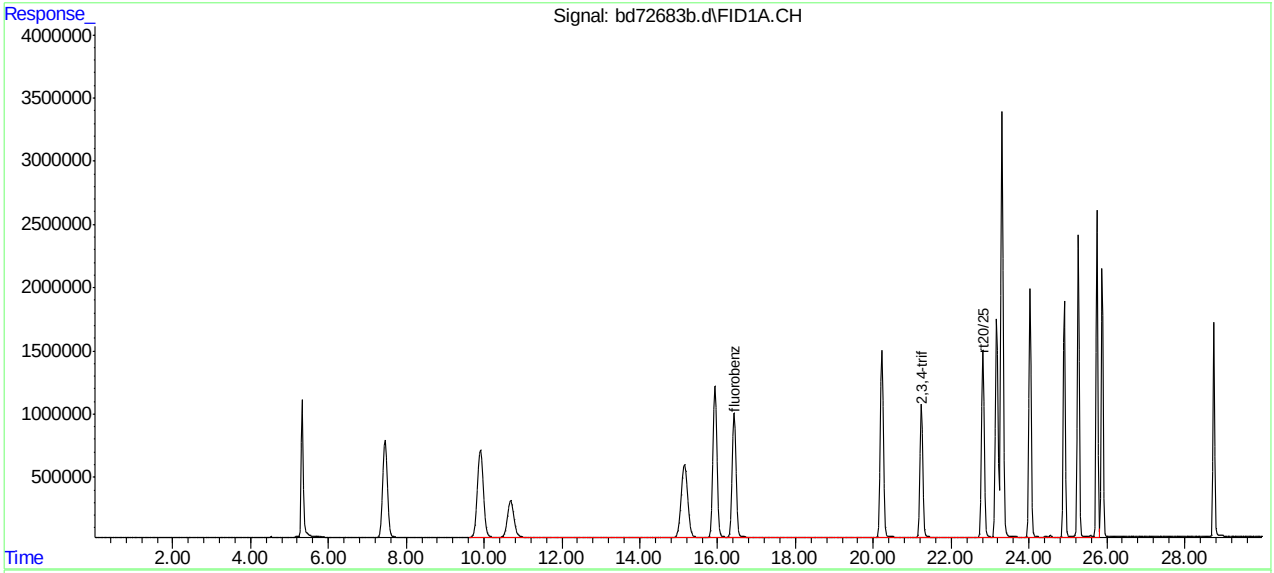
(f)=RT Delta > 1/2 Window (m)=manual int.

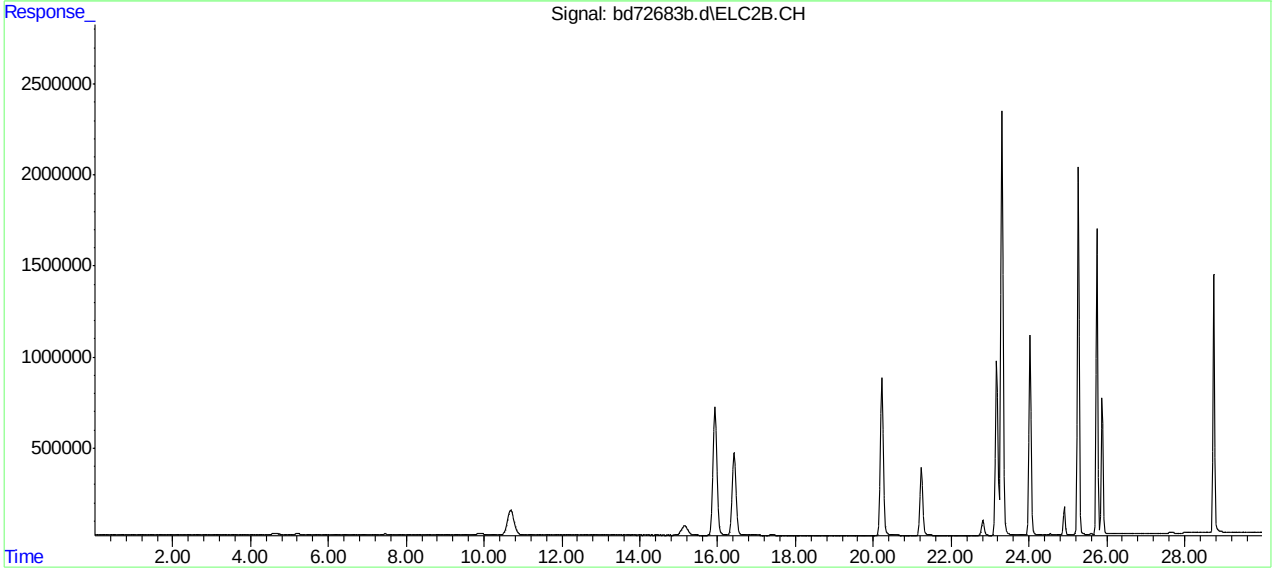
Quantitation Report (QT Reviewed)

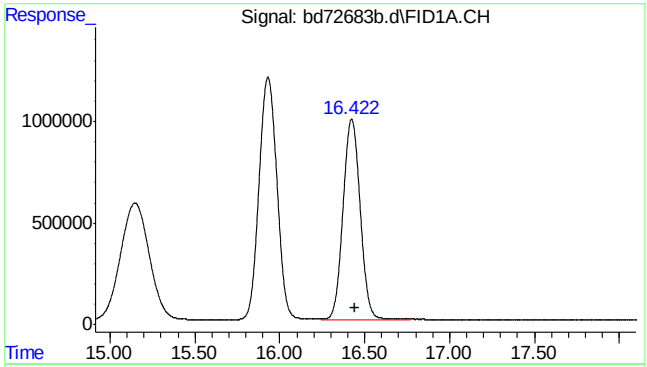
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3577-1300 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 15:46:48 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:45:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

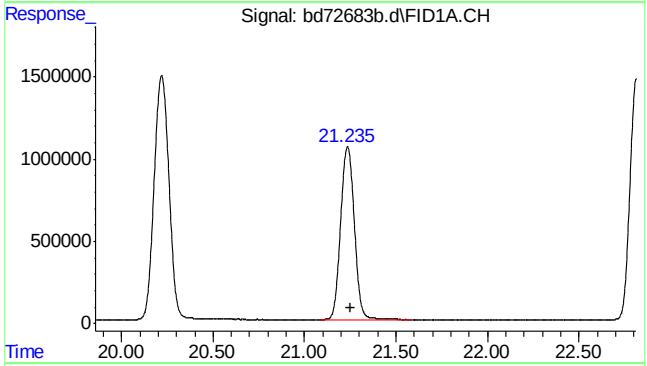






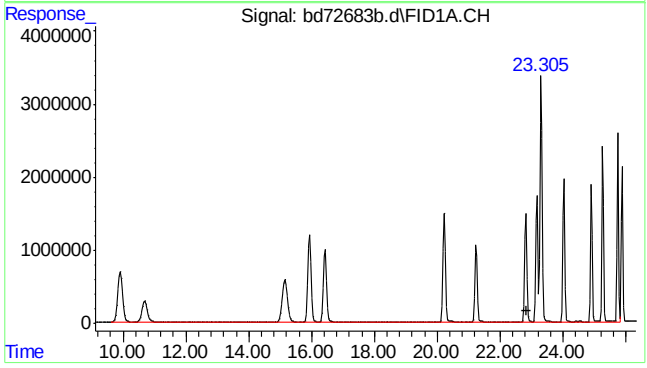
#1 fluorobenzene

```
      R.T.:   16.423 min
Delta R.T.:   -0.020 min
  Response:  70079072
      Conc:  96.04 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.235 min
Delta R.T.:   -0.019 min
  Response:  54927490
      Conc:  96.38 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 980345391
      Conc: 1224.48 ppb m
```

7.5.4

7

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3577-650 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:41:09 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:40:19 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			
1) s fluorobenzene	16.425f	34075445	50.000 ppb
Spiked Amount 50.000		Recovery =	100.00%
2) s 2,3,4-trifluorotoluene	21.237f	26970091	50.000 ppb
Spiked Amount 50.000		Recovery =	100.00%
Target Compounds			
3) h rt20/25	22.830	507348493	651.107 ppb m

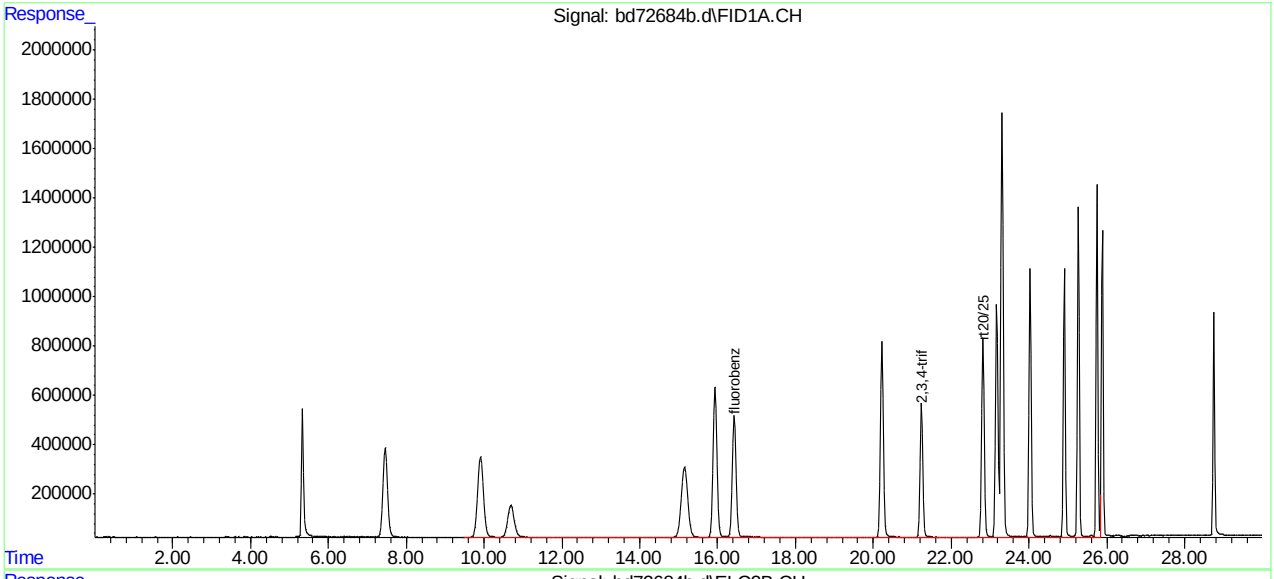
(f)=RT Delta > 1/2 Window (m)=manual int.

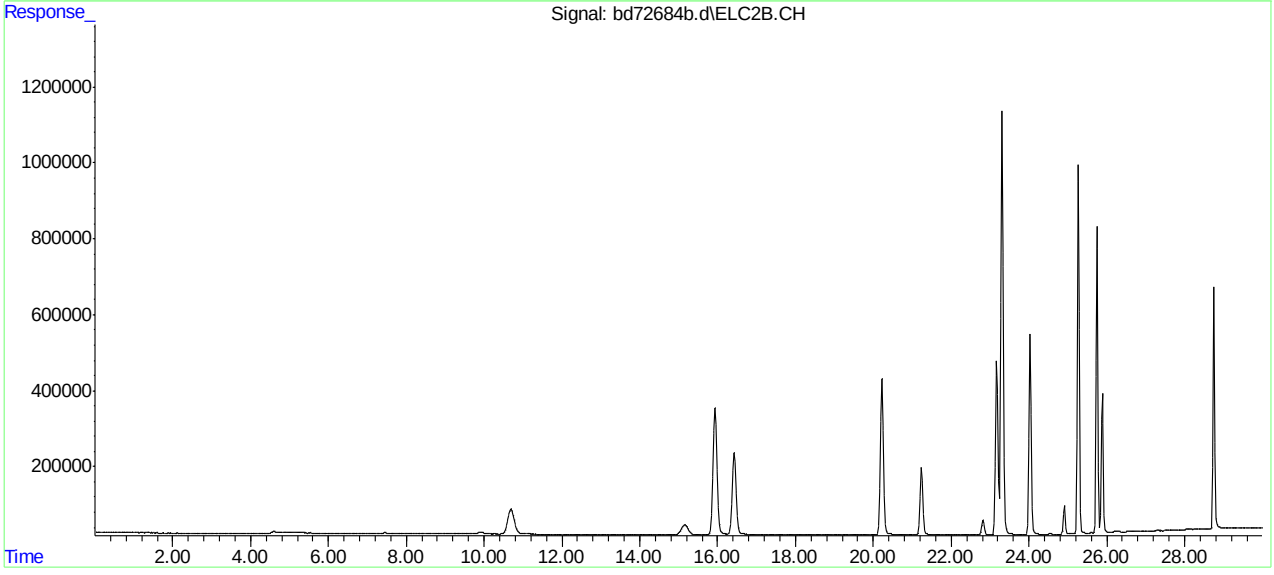
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3577-650 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

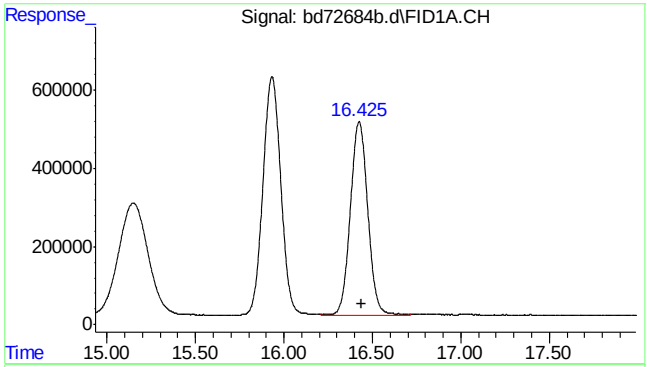
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 15:41:09 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:40:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



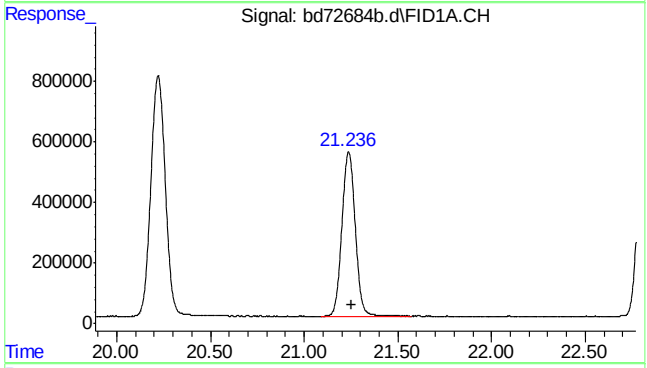


SGS ACCUTEST MC45799



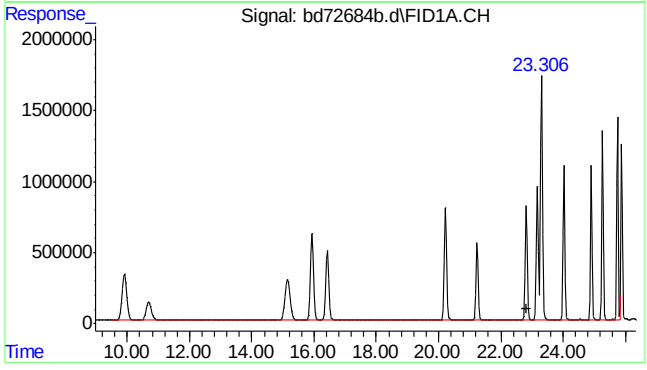
#1 fluorobenzene

```
      R.T.:   16.425 min
Delta R.T.:   -0.018 min
  Response:  34075445
      Conc:  50.00 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.237 min
Delta R.T.:   -0.017 min
  Response:  26970091
      Conc:  50.00 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 507348493
      Conc: 651.11 ppb m
```


SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/25/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:42:43 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial 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					
1) s fluorobenzene	16.424f	7675477	11.262	ppb	m
Spiked Amount 50.000		Recovery = 22.52%			
2) s 2,3,4-trifluorotoluene	21.237f	5918567	10.972	ppb	m
Spiked Amount 50.000		Recovery = 21.94%			
Target Compounds					
3) h rt20/25	22.830	102743766	131.632	ppb	m

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

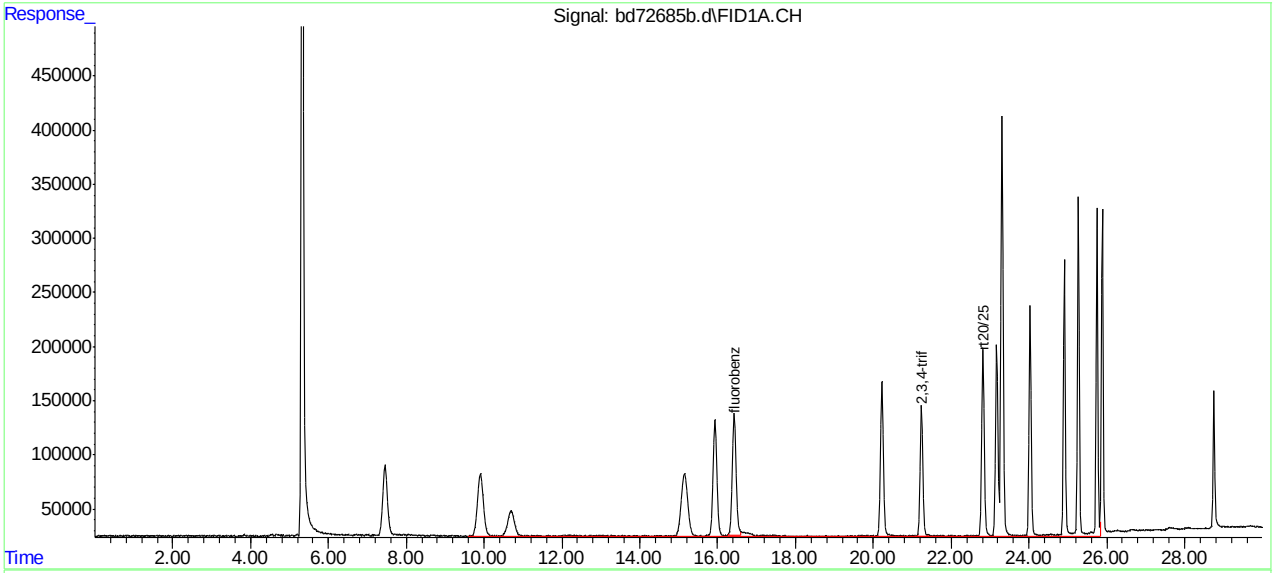
SGS ACCUTEST MC45799

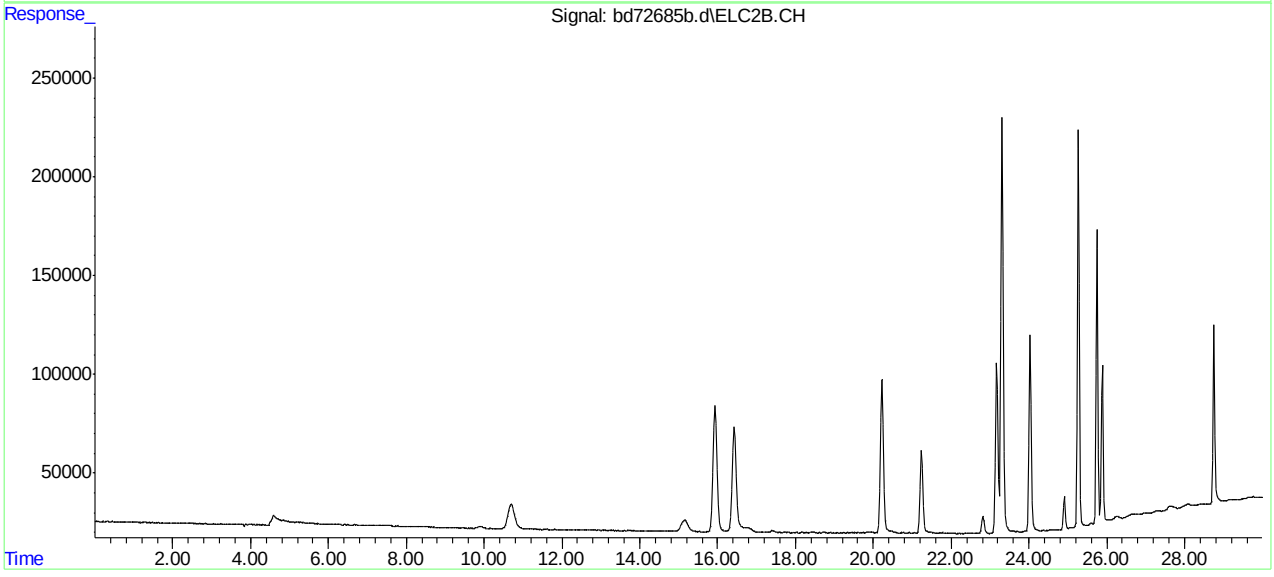
Quantitation Report (QT Reviewed)

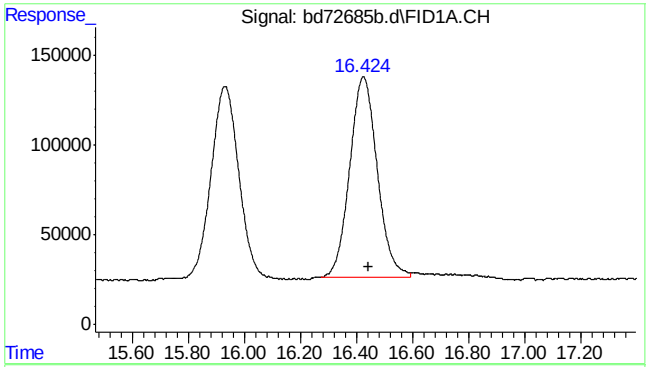
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 15:42:43 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

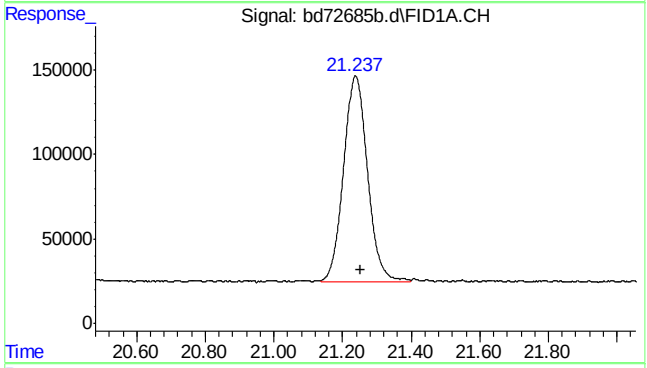






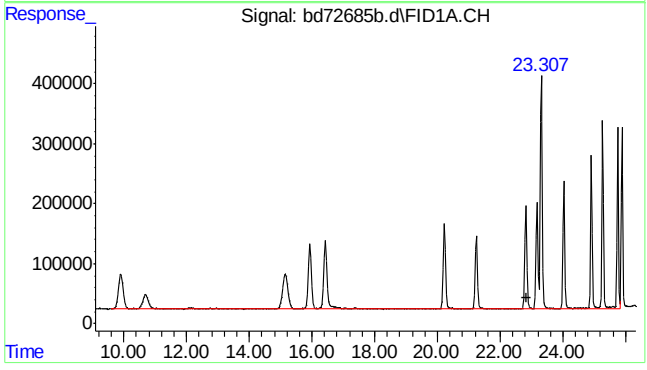
#1 fluorobenzene

```
      R.T.:   16.424 min
Delta R.T.:   -0.019 min
  Response:   7675477
      Conc:  11.26 ppb m
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.237 min
Delta R.T.:   -0.017 min
  Response:   5918567
      Conc:  10.97 ppb m
```



#3 rt20/25

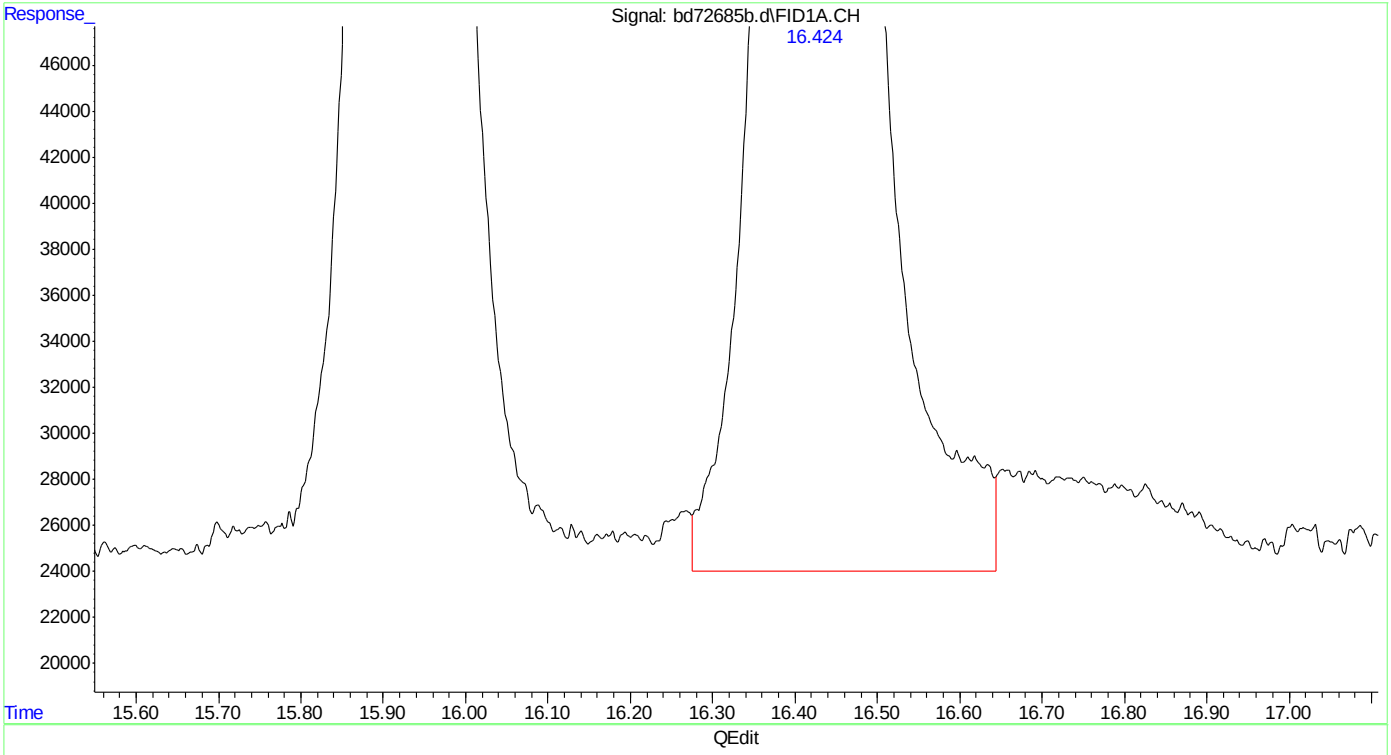
```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 102743766
      Conc: 131.63 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:41:38 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial 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) fluorobenzene (s)
16.425min 12.087 ppb
response 8237267

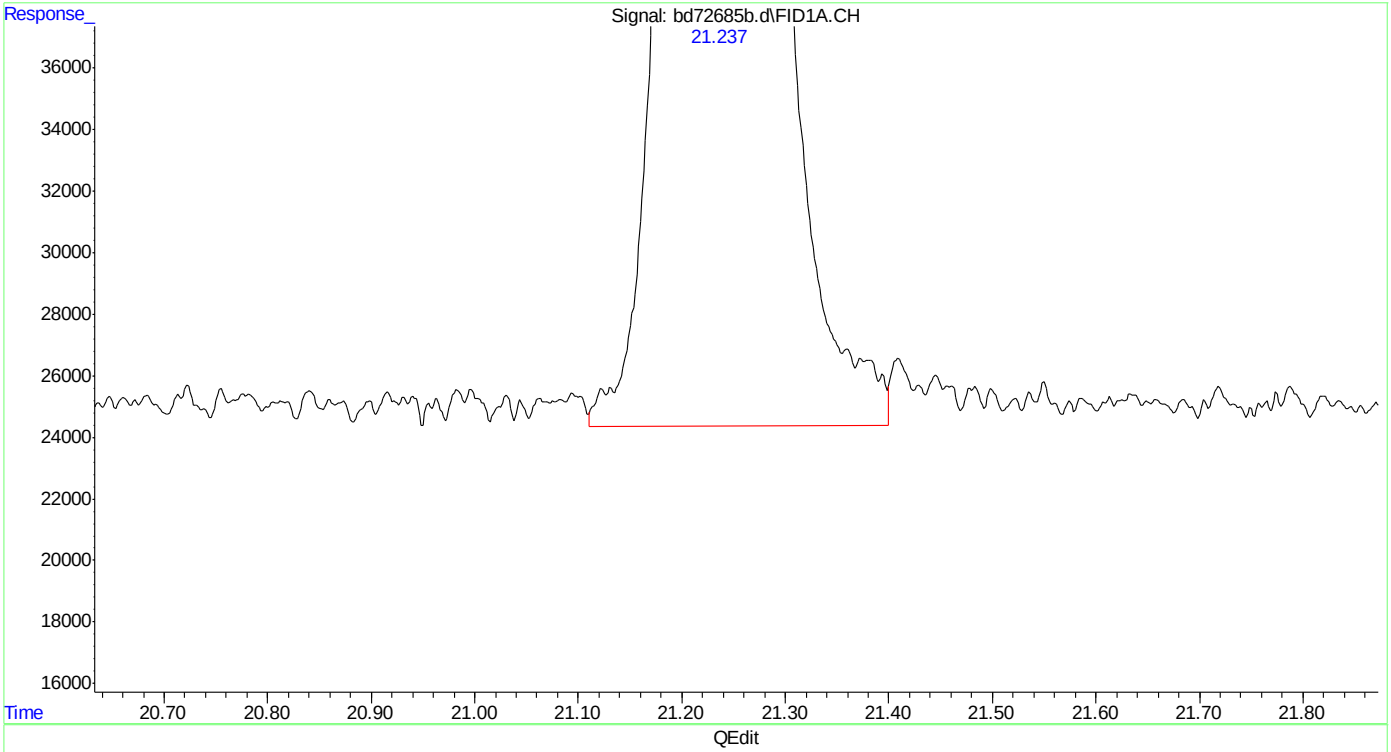
(+) = Expected Retention Time
bd160219v8015gro.M Mon Feb 22 15:41:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:41:38 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(2) 2,3,4-trifluorotoluene (s)
21.238min 11.128 ppb
response 6002419

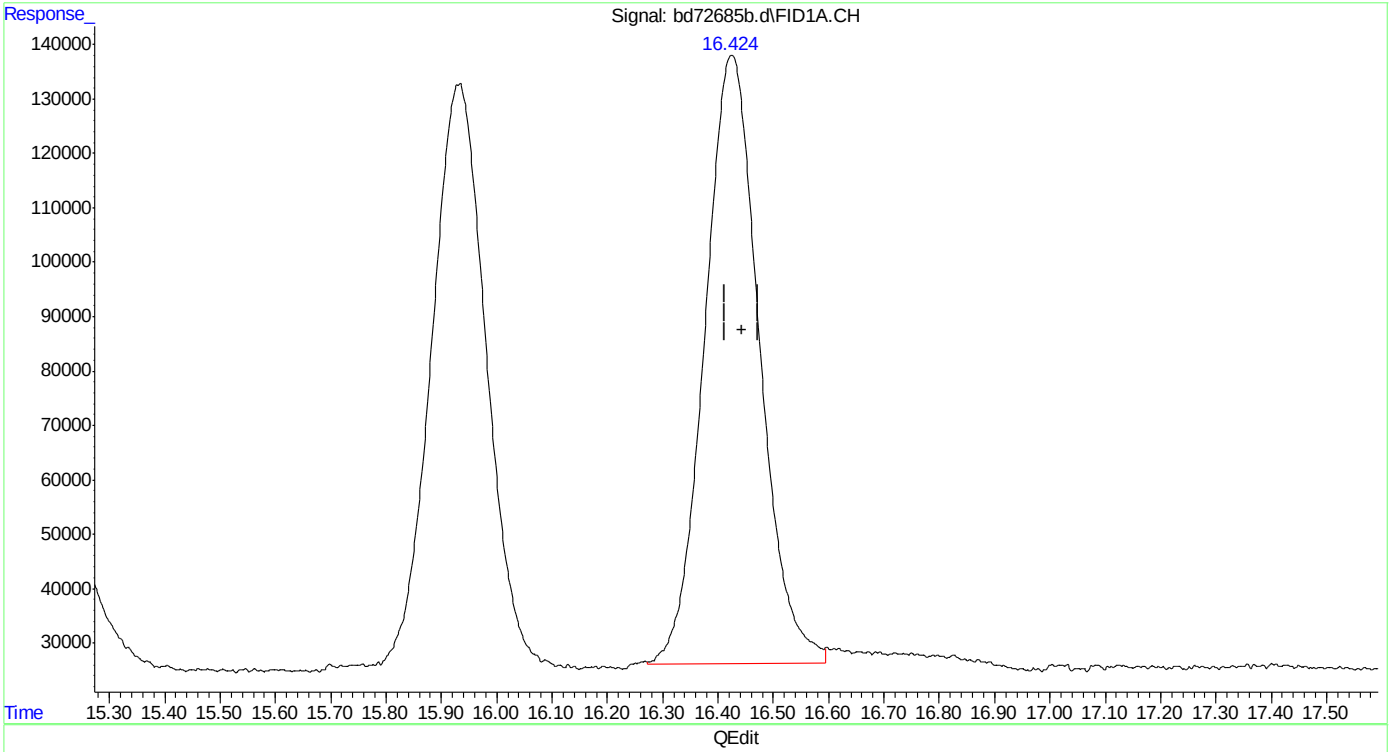
(+) = Expected Retention Time
bd160219v8015gro.M Mon Feb 22 15:42:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:41:38 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial 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) fluorobenzene (s)
16.424min 11.262 ppb m
response 7675477

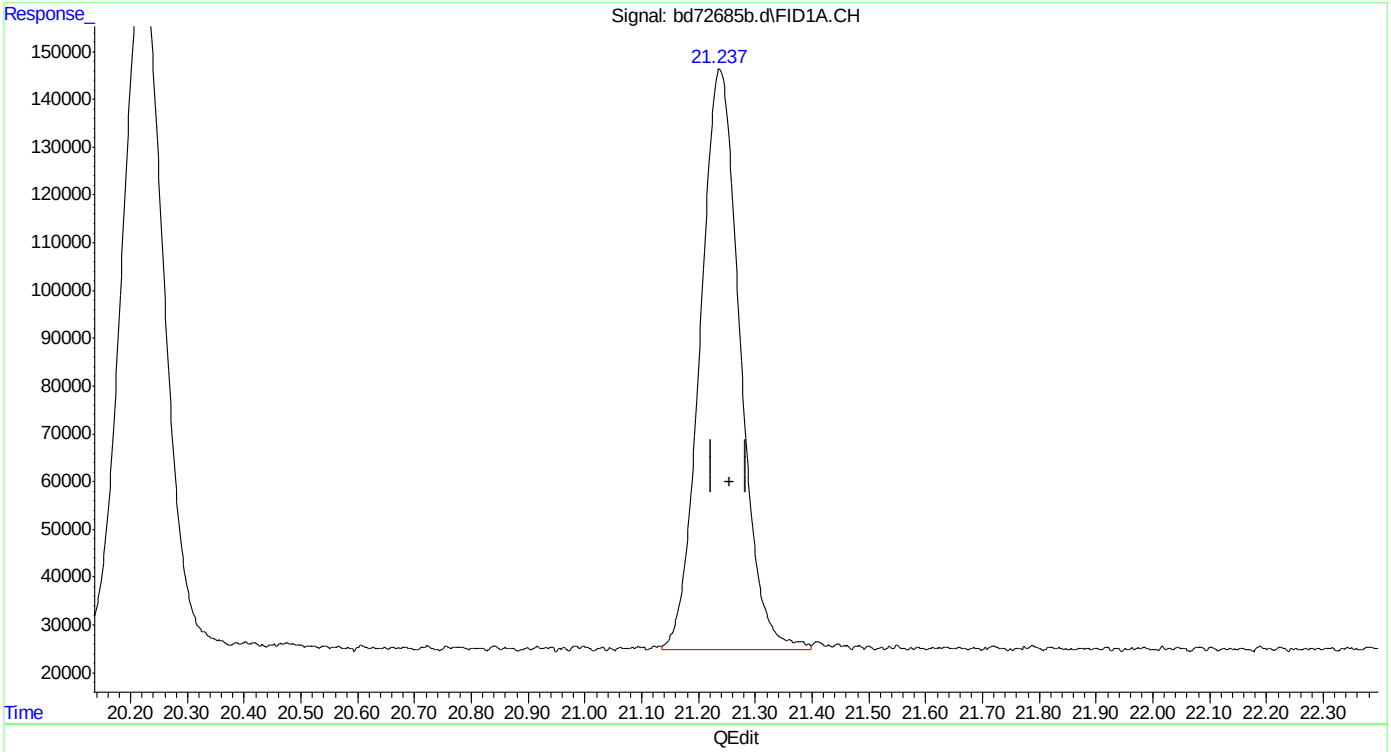
(+) = Expected Retention Time
bd160219v8015gro.M Mon Feb 22 15:42:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3577-130 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:41:38 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:41:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(2) 2,3,4-trifluorotoluene (s)
21.237min 10.972 ppb m
response 5918567

(+) = Expected Retention Time

BD72686B.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri
02/25/16 11:43

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:44:19 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:42:55 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					
1) s fluorobenzene	16.422f	3699501	5.106	ppb	m
Spiked Amount 50.000		Recovery = 10.21%			
2) s 2,3,4-trifluorotoluene	21.237f	2891963	6.193	ppb	m
Spiked Amount 50.000		Recovery = 12.39%			
Target Compounds					
3) h rt20/25	22.830	54015142	68.771	ppb	m

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

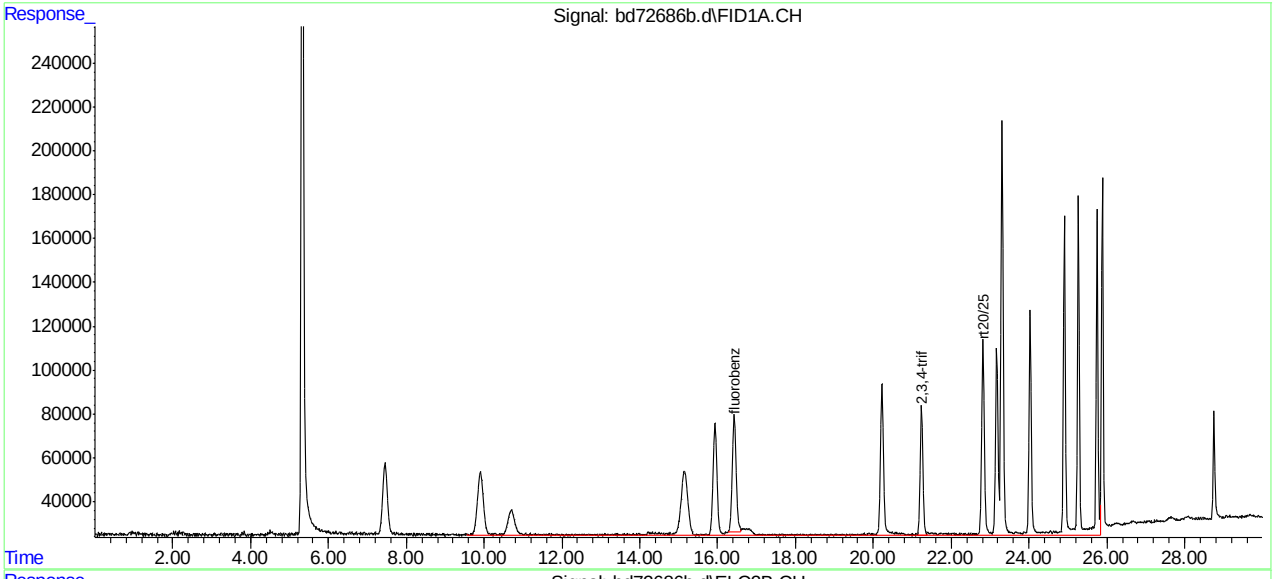
SGS ACCUTEST MC45799

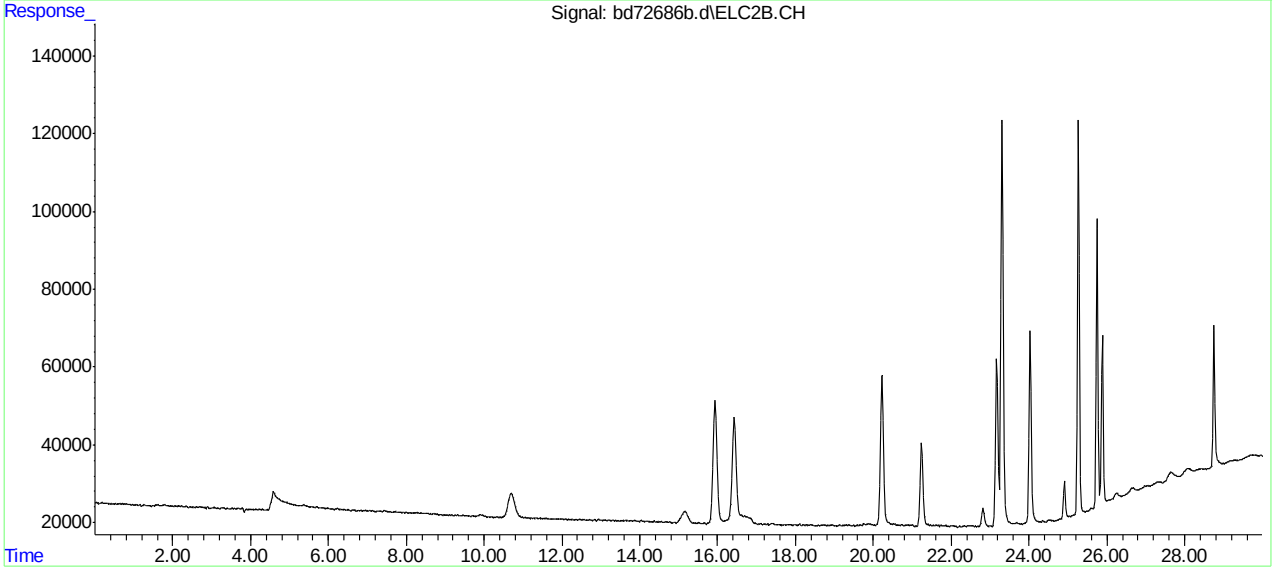
Quantitation Report (QT Reviewed)

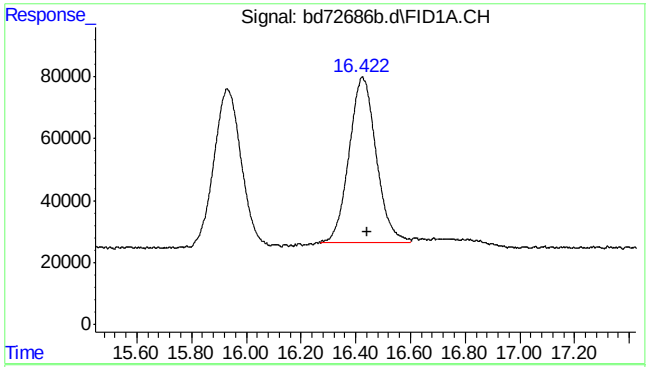
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 15:44:19 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:42:55 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 :

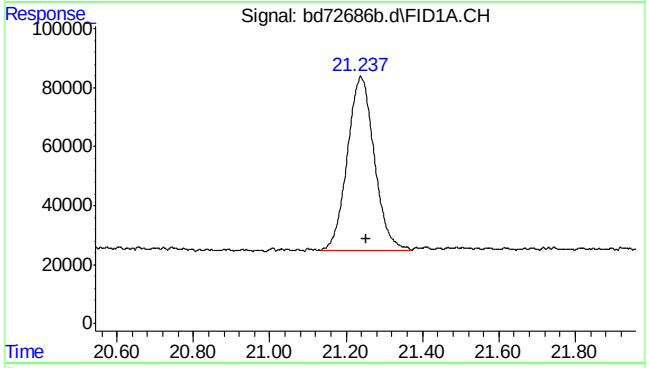






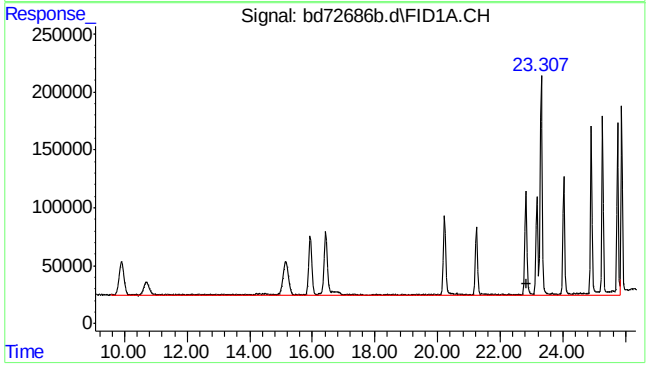
#1 fluorobenzene

```
      R.T.:   16.422 min
Delta R.T.:   -0.021 min
  Response:   3699501
      Conc:   5.11 ppb m
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.237 min
Delta R.T.:   -0.017 min
  Response:   2891963
      Conc:   6.19 ppb m
```



#3 rt20/25

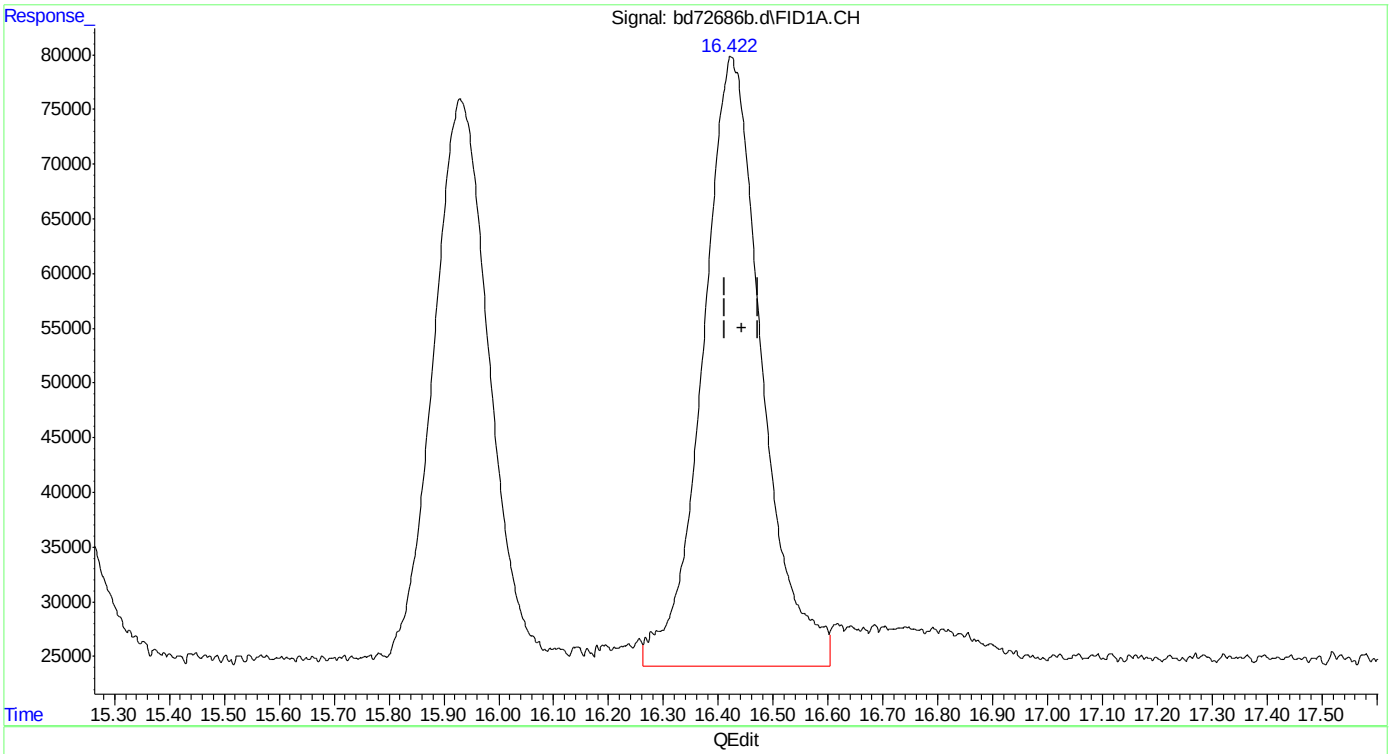
```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response:  54015142
      Conc:  68.77 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:43:11 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:42:55 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) fluorobenzene (s)
16.423min 5.731 ppb
response 4152408

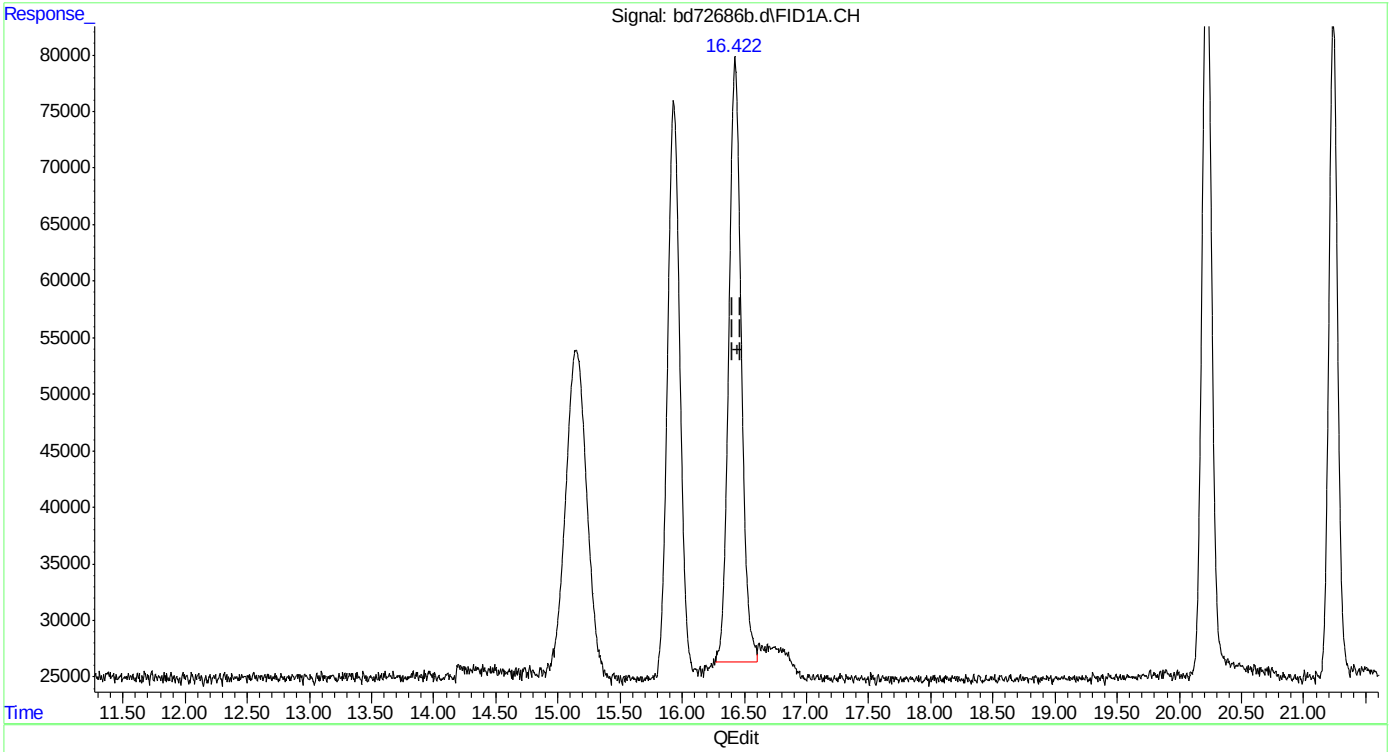
(+) = Expected Retention Time
bd160219v8015gro.M Mon Feb 22 15:43:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 15:43:11 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:42:55 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 :

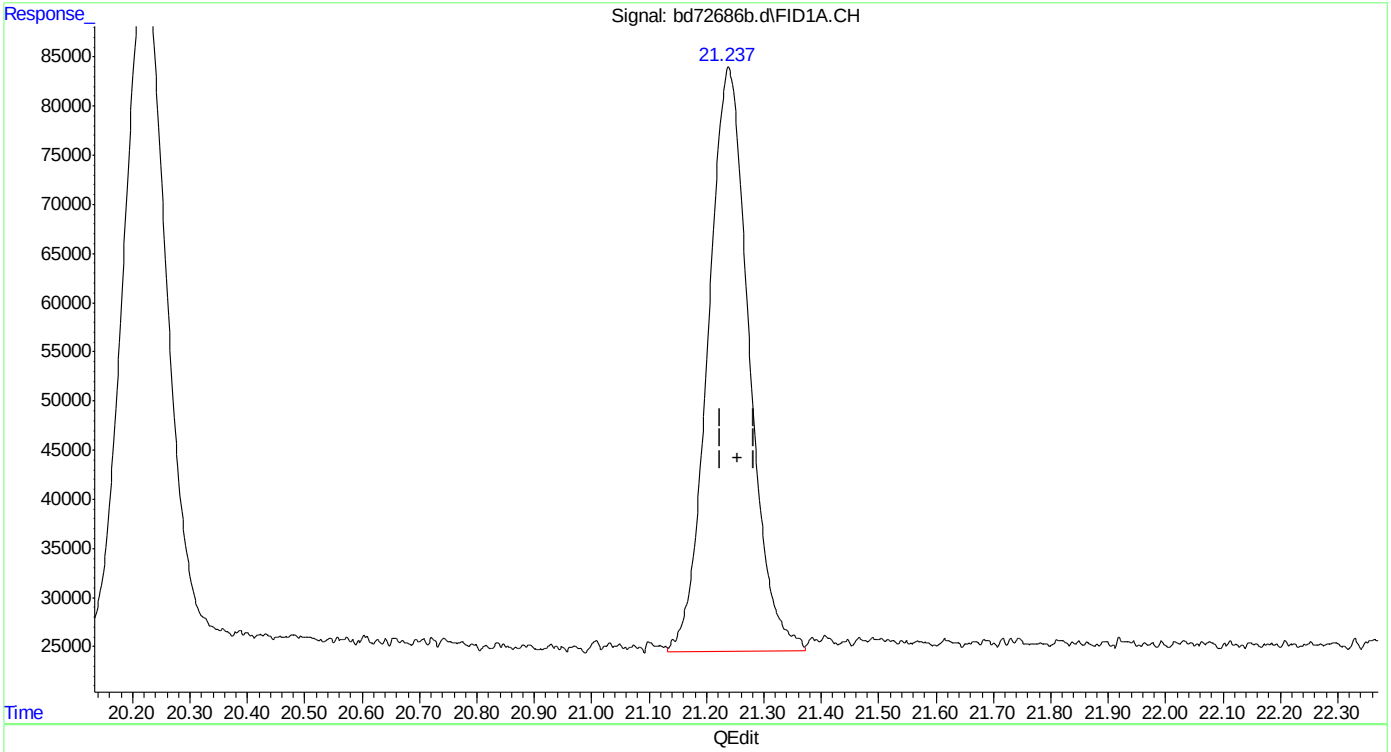


(1) fluorobenzene (s)
16.422min 5.106 ppb m
response 3699501

(+) = Expected Retention Time
bd160219v8015gro.M Mon Feb 22 15:44:01 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:43:11 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:42:55 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 :
```



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

21.239min 6.300 ppb

response 2942188

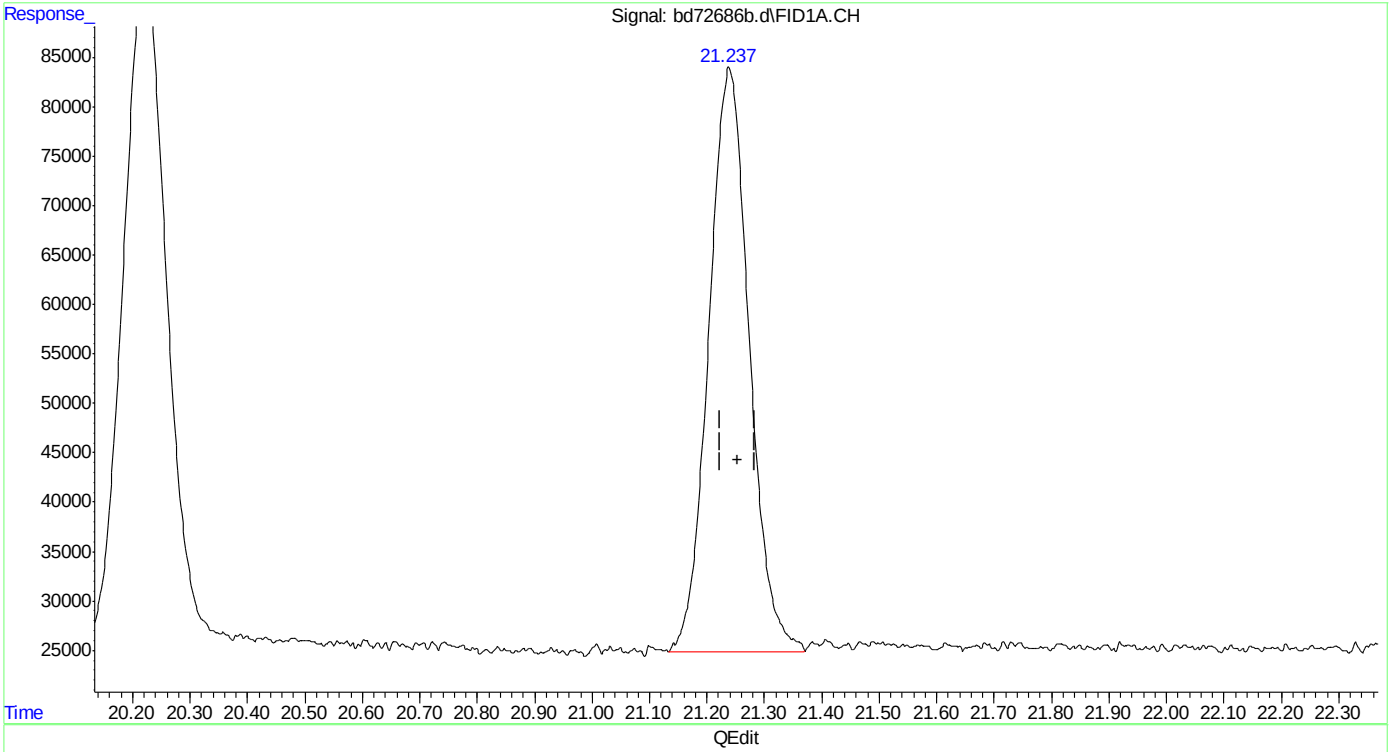
(+) = Expected Retention Time

bd160219v8015gro.M Mon Feb 22 15:44:05 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3577-65 (Sig #1); ic3752-5 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:44:19 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:42:55 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 :
```



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

21.237min 6.193 ppb m

response 2891963

(+) = Expected Retention Time

bd160219v8015gro.M Thu Feb 25 11:41:45 2016

SGS ACCUTEST MC45799

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial 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	16.425	657317120	961.988	ppb	
Spiked Amount 50.000		Recovery	= 1923.98%		
9) s 2,3,4-trifluorotoluene	21.238	506533597	968.857	ppb	
Spiked Amount 50.000		Recovery	= 1937.71%		
25) s fluorobenzene #2	16.425	307860163	897.087	ppb	
Spiked Amount 50.000		Recovery	= 1794.17%		
27) s 2,3,4-trifluorotoluen...	21.238	193235935	979.359	ppb	
Spiked Amount 50.000		Recovery	= 1958.72%		
Target Compounds					
1) h rt5.5-7	7.470	571775990	991.759	ppb	m
2) h rt7/10	9.920	664691568	987.821	ppb	m
3) mtbe	10.678	267375479	891.162	ppb	
4) h rt10/13	15.200	326932608	498.608	ppb	m
5) benzene	15.932	881455634	1134.894	ppb	
8) toluene	20.221	861485080	1108.961	ppb	
11) h rt20/25	22.840	696455027	838.680	ppb	m
13) ethylbenzene	23.174	853280690	1074.198	ppb	
14) m,p-xylene	23.311	1439377364	1738.716	ppb	
15) o-xylene	24.030	813797703	973.949	ppb	
16) h decane	24.930	406144732	436.324	ppb	
17) t 1,3,5-trimethylbenzene	25.272	856076033	922.191	ppb	
18) 1,2,4-trimethylbenzene	25.749	793214434	897.165	ppb	
19) h butylcyclohexane	25.908	623852508	658.454	ppb	
20) naphthalene	28.750	426083724	1009.117	ppb	m
23) mtbe #2	10.681f	136782818	875.276	ppb	
24) benzene #2	15.933	486139863	1005.904	ppb	
26) toluene #2	20.222	462559507	1024.522	ppb	
28) ethylbenzene #2	23.176	445869280	1084.433	ppb	
29) m,p-xylene #2	23.314	1026259910	2066.543	ppb	
30) o-xylene #2	24.031	455064843	1052.780	ppb	
31) t 1,3,5-trimethylbenzen...	25.273	672061053	1001.725	ppb	
32) 1,2,4-trimethylbenzen...	25.750	503182098	1025.934	ppb	
33) naphthalene #2	28.751	338646305	1054.657	ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	503156214	1026.406	ppb	m

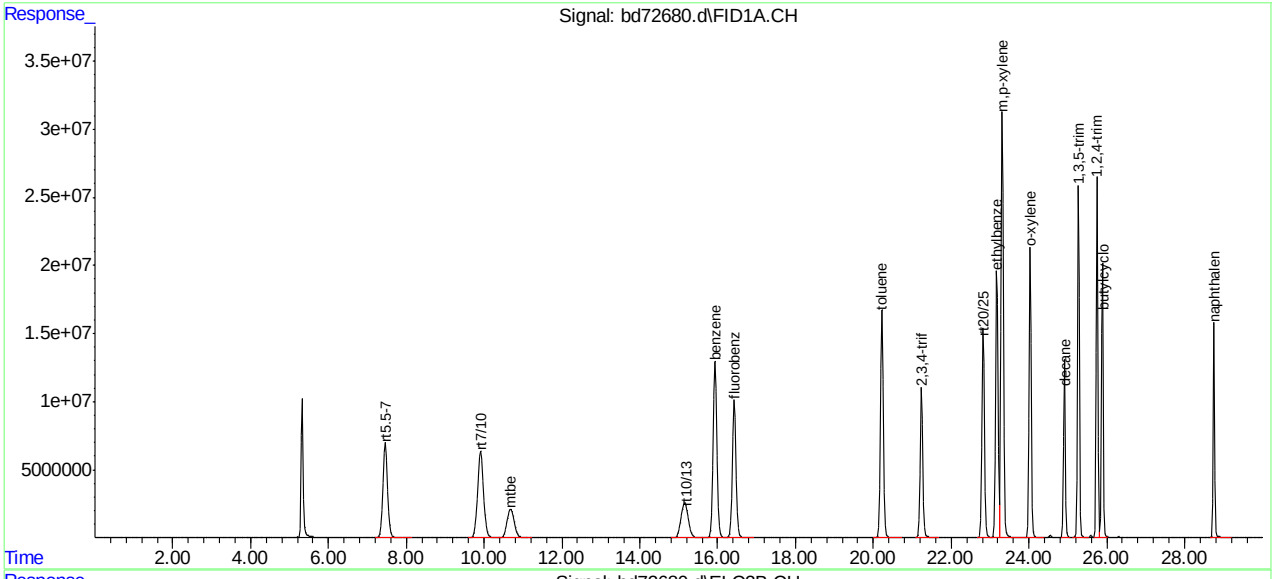
(f)=RT Delta > 1/2 Window (m)=manual int.

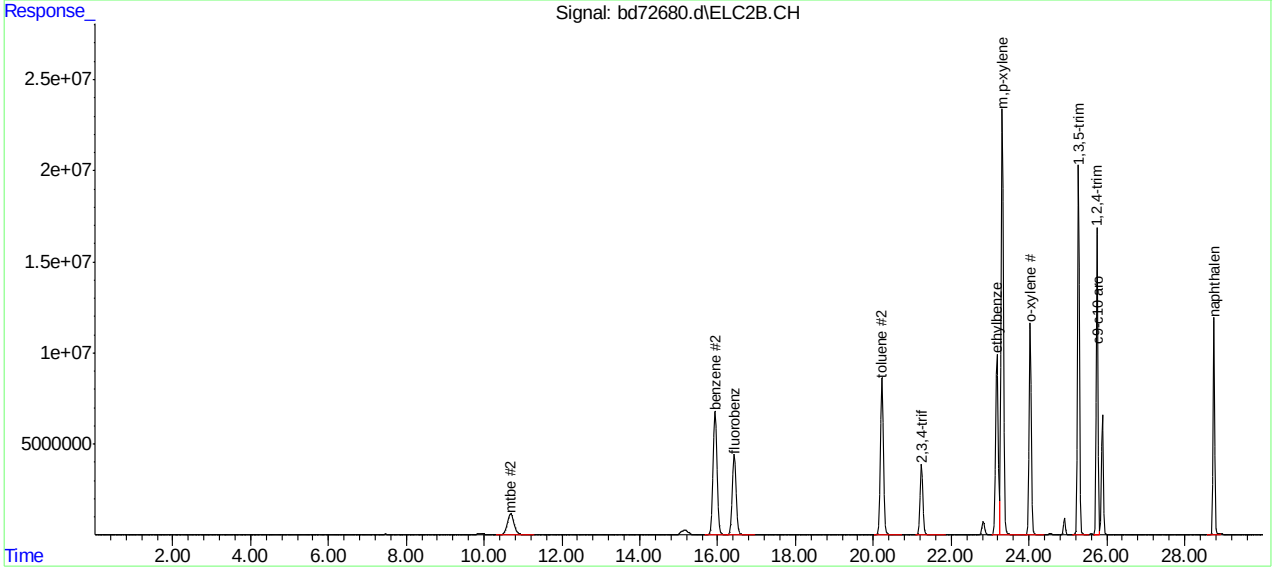
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72680.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 07:38:29
Operator : tonyf
Sample : ic3572-1000 (Sig #1); ic3752-1000 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

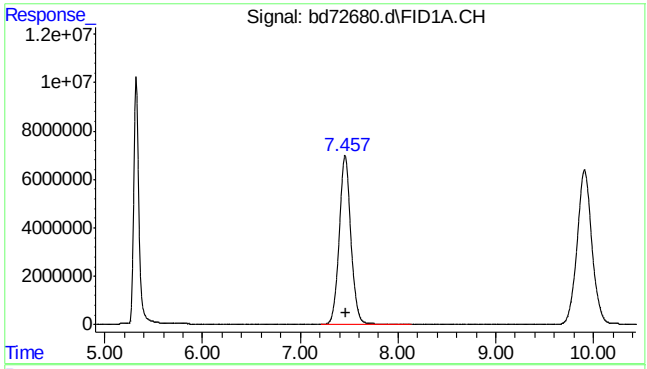
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



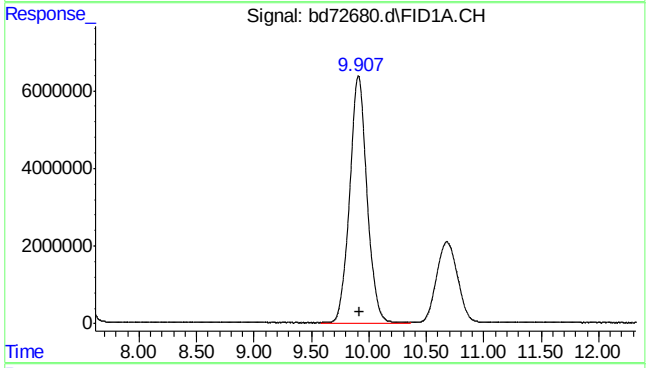


SGS ACCUTEST MC45799



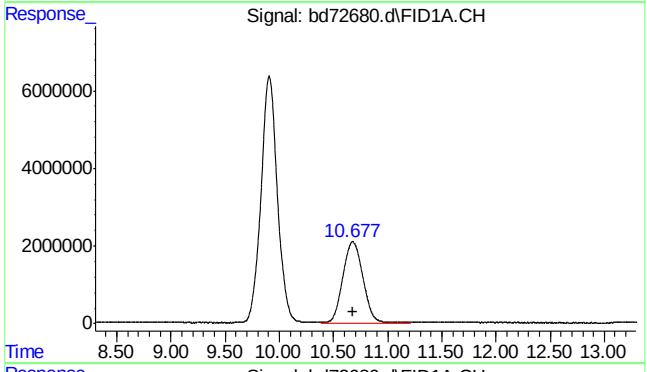
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 571775990
Conc: 991.76 ppb m



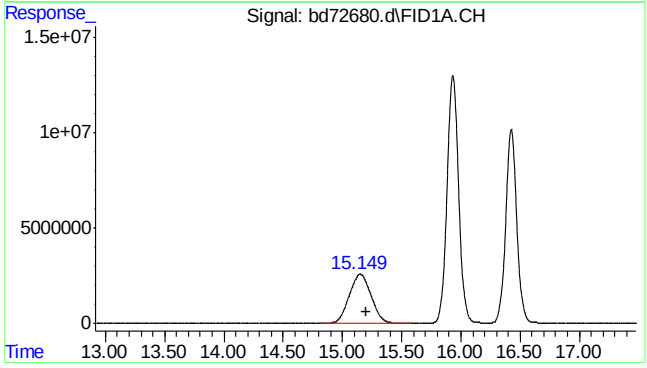
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 664691568
Conc: 987.82 ppb m



#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 267375479
Conc: 891.16 ppb



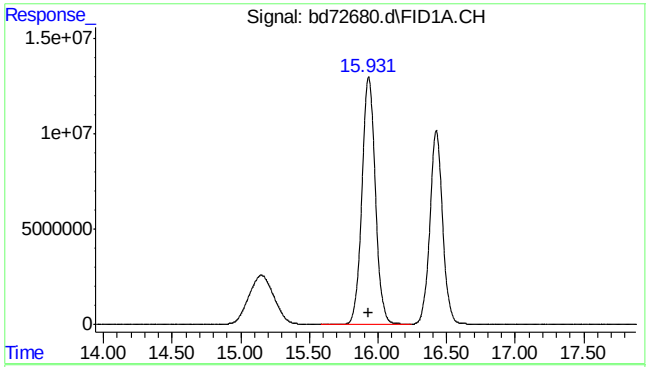
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 326932608
Conc: 498.61 ppb m

7.5.8

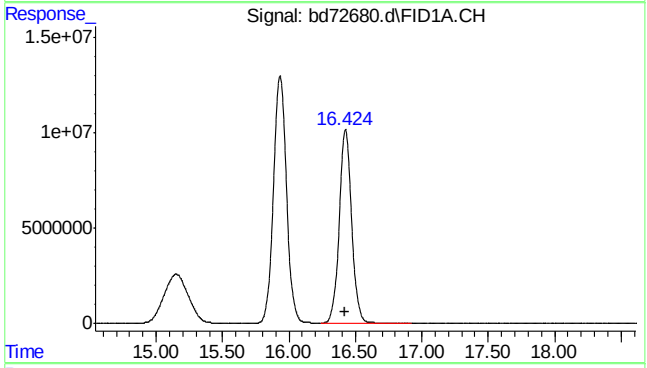
7

SGS ACCUTEST MC45799



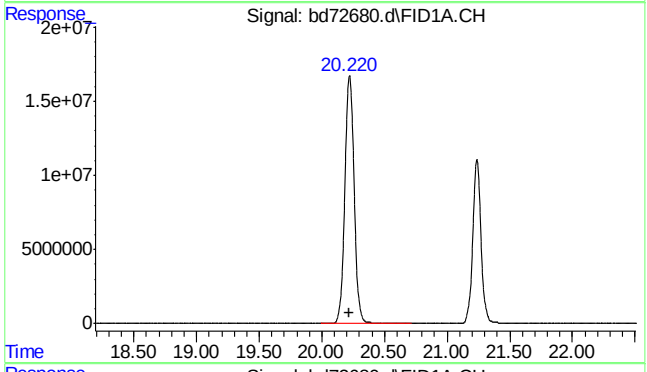
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 881455634
Conc: 1134.89 ppb



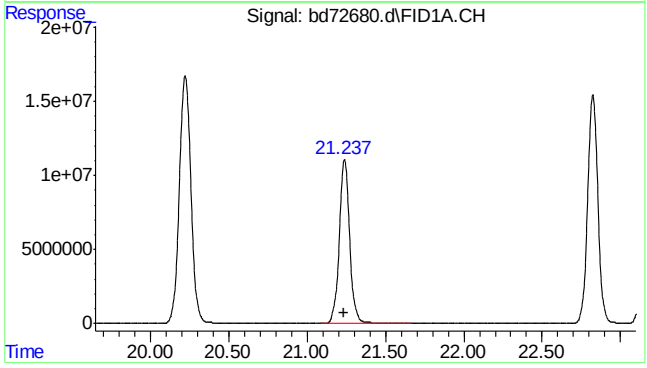
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 657317120
Conc: 961.99 ppb



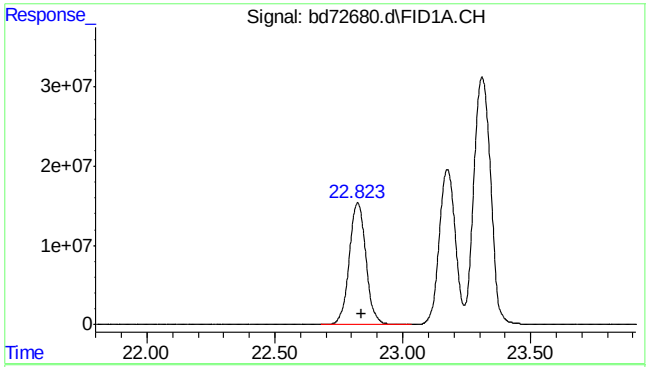
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 861485080
Conc: 1108.96 ppb



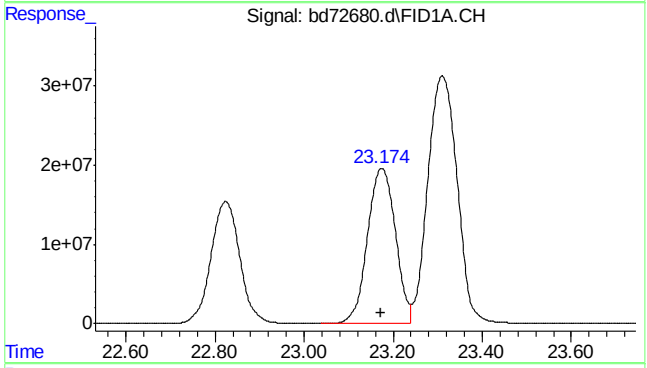
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 506533597
Conc: 968.86 ppb



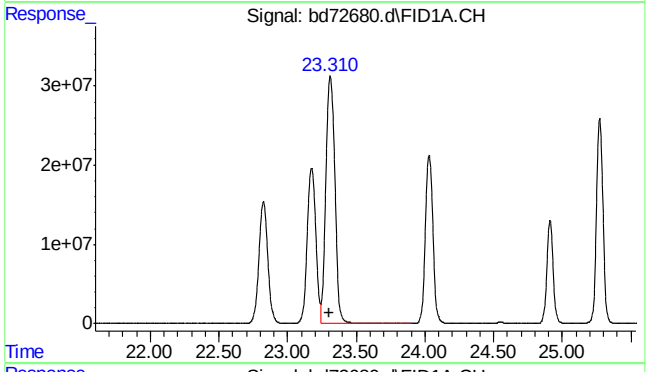
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 696455027
Conc: 838.68 ppb m



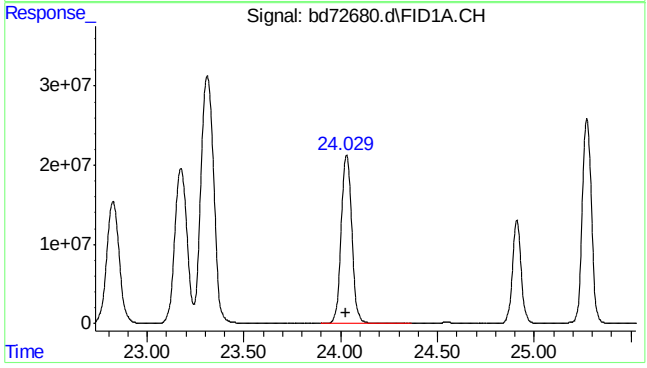
#13 ethylbenzene

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 853280690
Conc: 1074.20 ppb



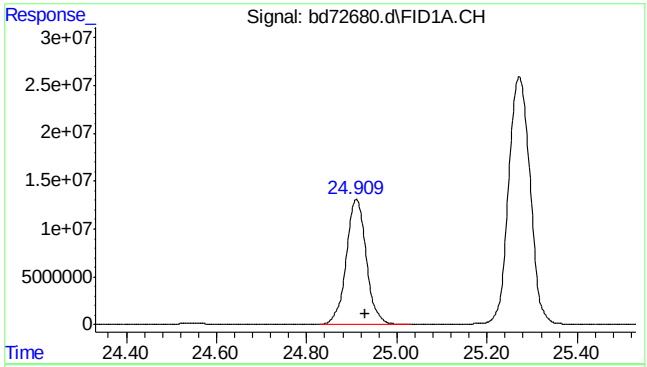
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1439377364
Conc: 1738.72 ppb



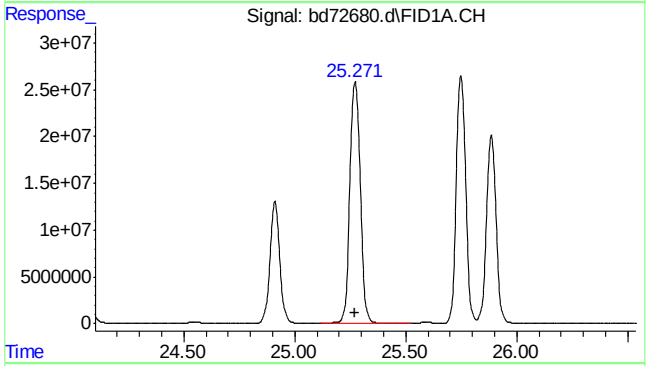
#15 o-xylene

R.T.: 24.030 min
Delta R.T.: 0.001 min
Response: 813797703
Conc: 973.95 ppb



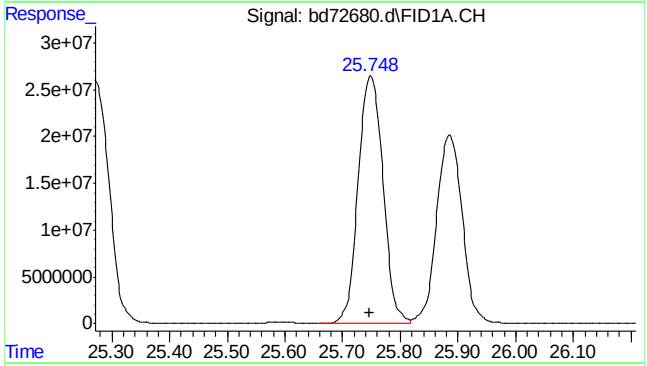
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 406144732
Conc: 436.32 ppb



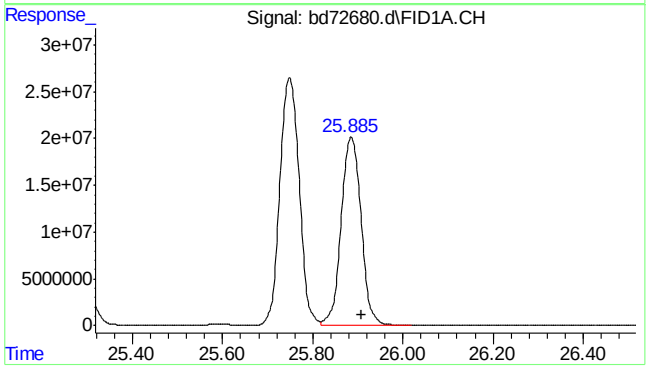
#17 1,3,5-trimethylbenzene

R.T.: 25.272 min
Delta R.T.: 0.003 min
Response: 856076033
Conc: 922.19 ppb



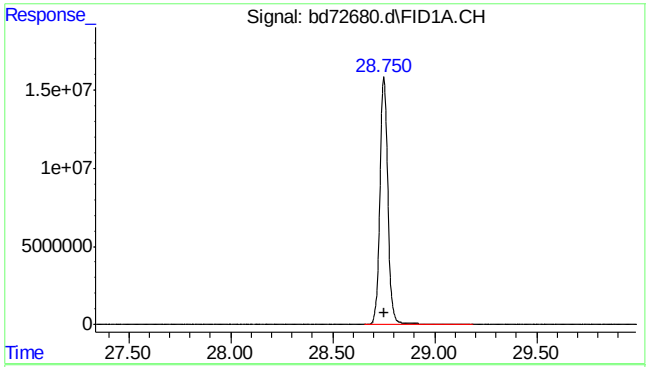
#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 793214434
Conc: 897.17 ppb



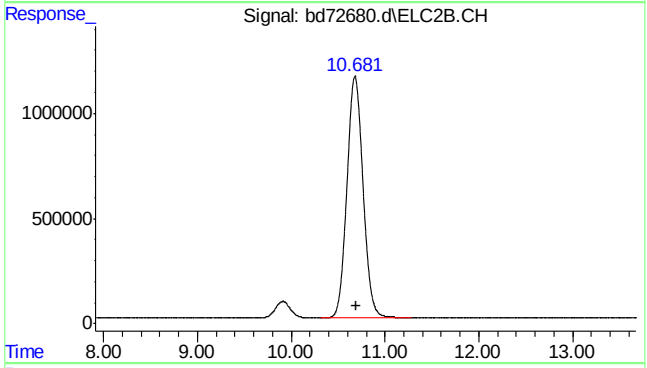
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 623852508
Conc: 658.45 ppb



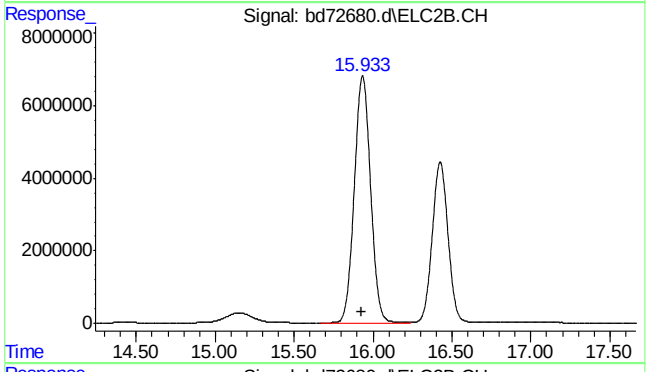
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 426083724
Conc: 1009.12 ppb m



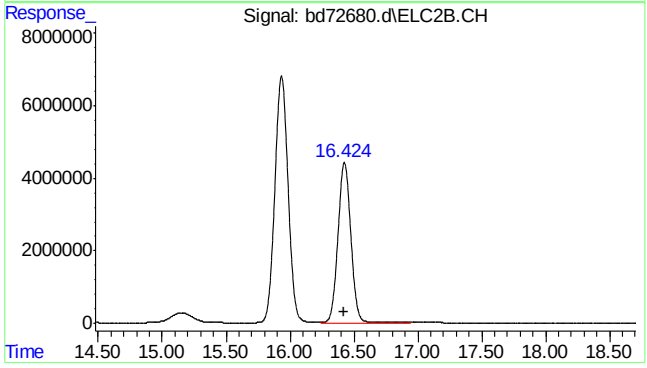
#23 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 136782818
Conc: 875.28 ppb



#24 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 486139863
Conc: 1005.90 ppb



#25 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 307860163
Conc: 897.09 ppb

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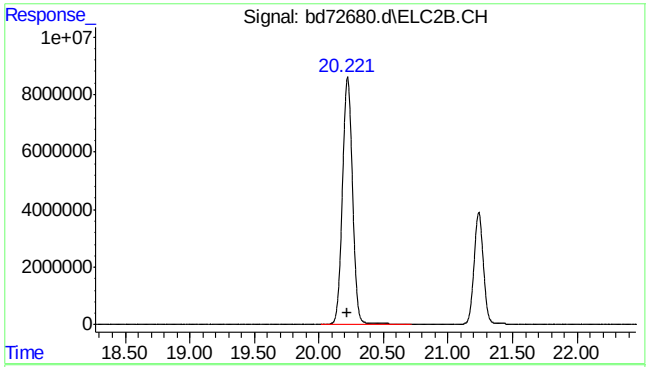
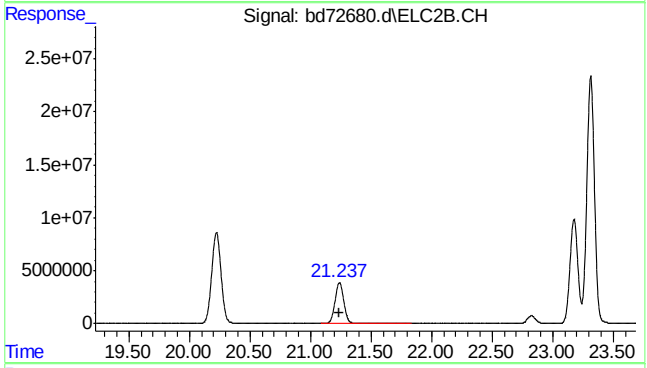


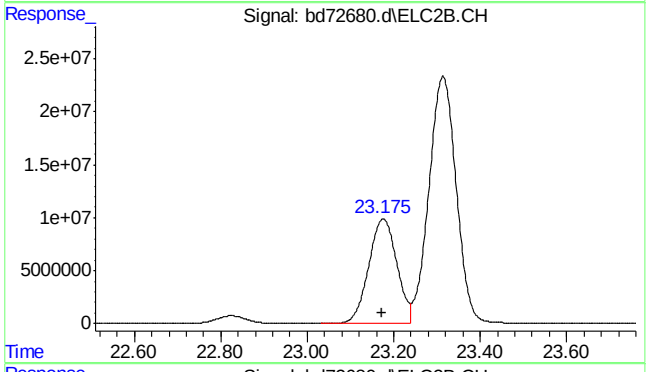
#26 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 462559507
Conc: 1024.52 ppb



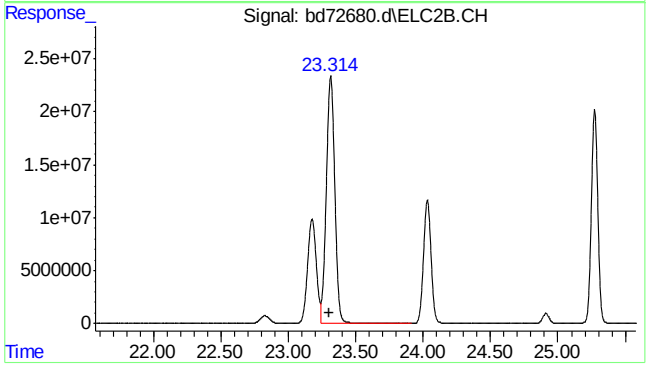
#27 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.001 min
Response: 193235935
Conc: 979.36 ppb



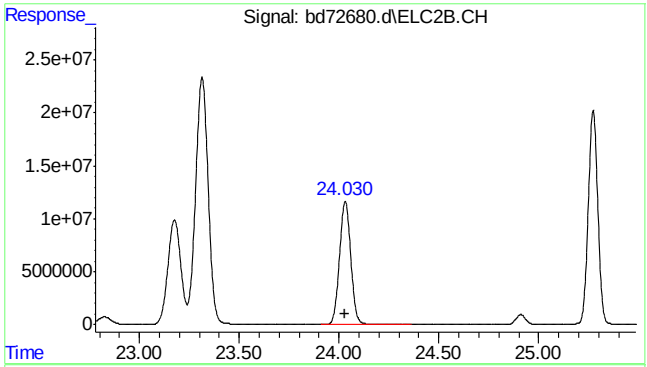
#28 ethylbenzene #2

R.T.: 23.176 min
Delta R.T.: 0.004 min
Response: 445869280
Conc: 1084.43 ppb



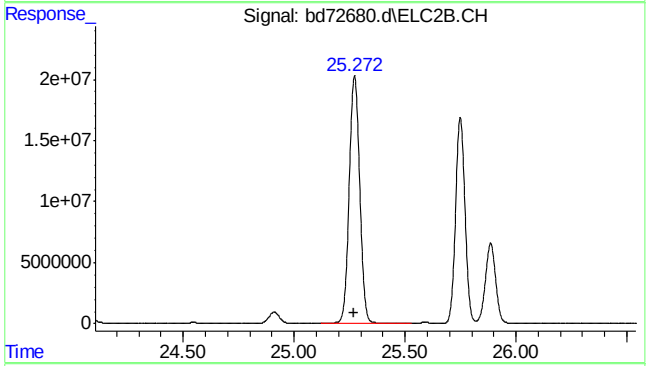
#29 m,p-xylene #2

R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 1026259910
Conc: 2066.54 ppb



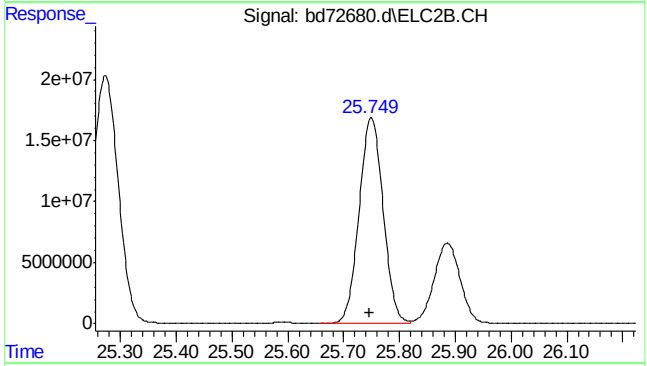
#30 o-xylene #2

R.T.: 24.031 min
Delta R.T.: 0.003 min
Response: 455064843
Conc: 1052.78 ppb



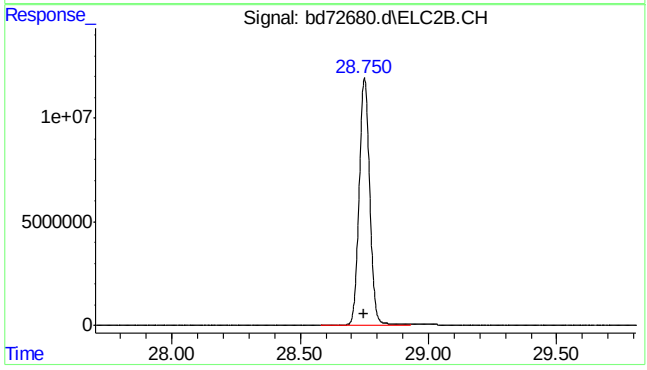
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 672061053
Conc: 1001.72 ppb



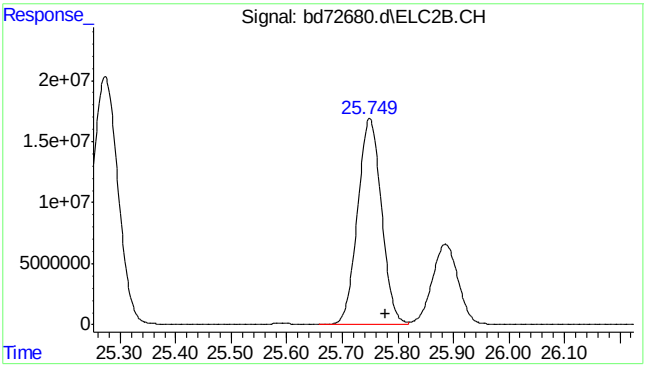
#32 1,2,4-trimethylbenzene #2

R.T.: 25.750 min
Delta R.T.: 0.004 min
Response: 503182098
Conc: 1025.93 ppb



#33 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 338646305
Conc: 1054.66 ppb



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 503156214
Conc: 1026.41 ppb m

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial 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	16.424	280256461	399.892	ppb	
Spiked Amount 50.000		Recovery = 799.78%			
9) s 2,3,4-trifluorotoluene	21.236	223973992	419.811	ppb	
Spiked Amount 50.000		Recovery = 839.62%			
25) s fluorobenzene #2	16.423	154535173	444.003	ppb	
Spiked Amount 50.000		Recovery = 888.01%			
27) s 2,3,4-trifluorotoluen...	21.236	93431261	469.974	ppb	
Spiked Amount 50.000		Recovery = 939.95%			
Target Compounds					
1) h rt5.5-7	7.470	250696304	426.891	ppb	m
2) h rt7/10	9.920	302369528	442.953	ppb	m
3) mtbe	10.677	149463905	497.901	ppb	
4) h rt10/13	15.200	202634743	293.051	ppb	m
5) benzene	15.932	369202764	472.034	ppb	
8) toluene	20.219	393743577	507.847	ppb	
11) h rt20/25	22.840	346681859	407.862	ppb	m
13) ethylbenzene	23.171	415193330	526.099	ppb	
14) m,p-xylene	23.307	837537821	1013.412	ppb	
15) o-xylene	24.028	409323205	488.463	ppb	
16) h decane	24.930	328410851	338.576	ppb	
17) t 1,3,5-trimethylbenzene	25.270	460707488	495.762	ppb	
18) 1,2,4-trimethylbenzene	25.747	446599621	505.867	ppb	
19) h butylcyclohexane	25.908	364778065	372.763	ppb	
20) naphthalene	28.748	235968786	568.416	ppb	m
23) mtbe #2	10.676f	72995113	462.747	ppb	
24) benzene #2	15.931	243796320	505.098	ppb	
26) toluene #2	20.219	229409498	509.300	ppb	
28) ethylbenzene #2	23.171	214894088	526.067	ppb	
29) m,p-xylene #2	23.308	505002305	1019.367	ppb	
30) o-xylene #2	24.028	220290152	511.042	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	339709347	507.265	ppb	
32) 1,2,4-trimethylbenzen...	25.747	256663102	526.816	ppb	
33) naphthalene #2	28.748	191420125	612.985	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	256536580	526.828	ppb	m

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

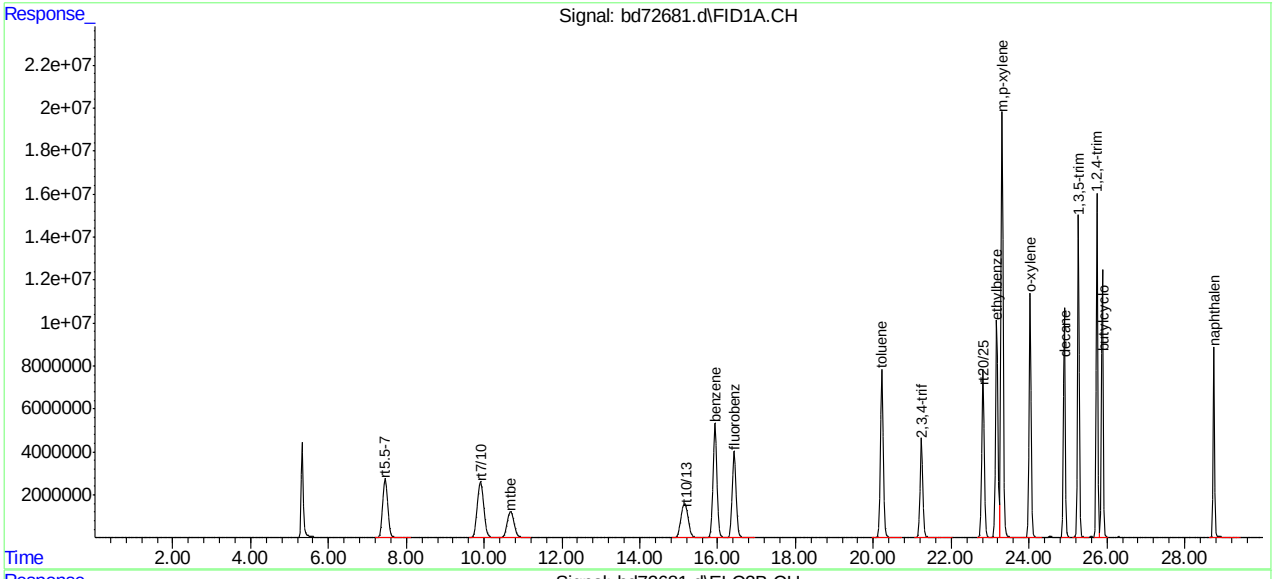
SGS ACCUTEST MC45799

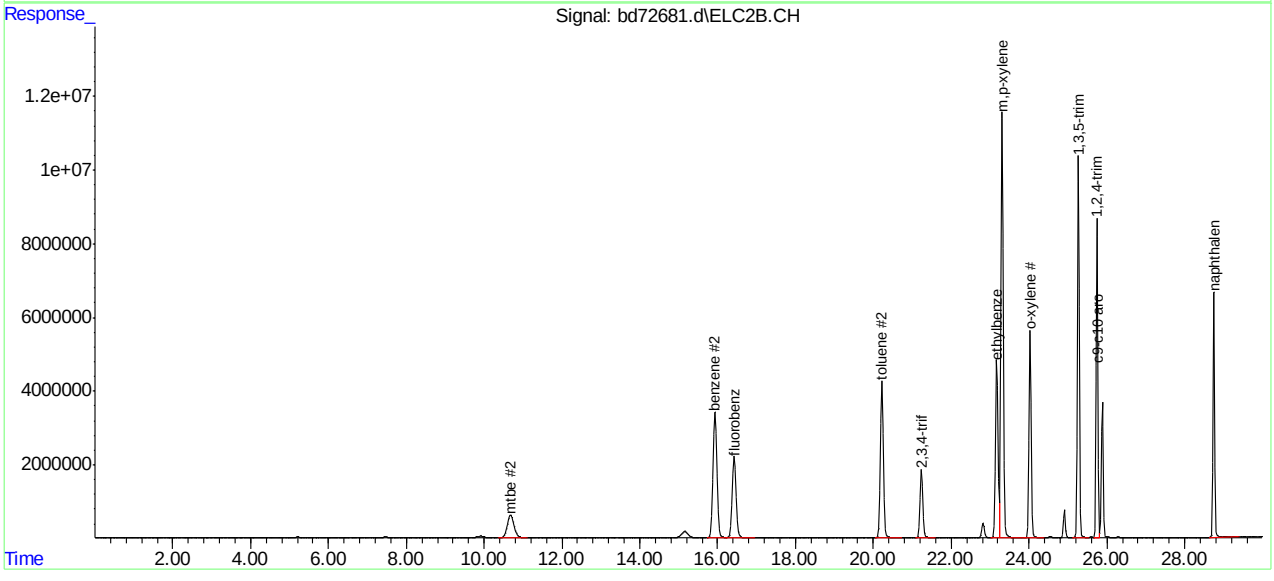
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3572-500 (Sig #1); ic3752-500 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

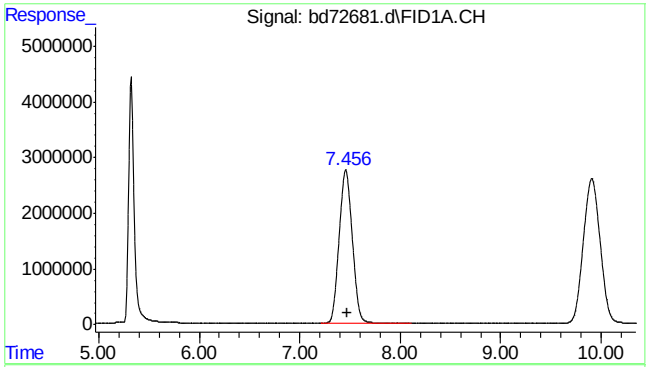
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



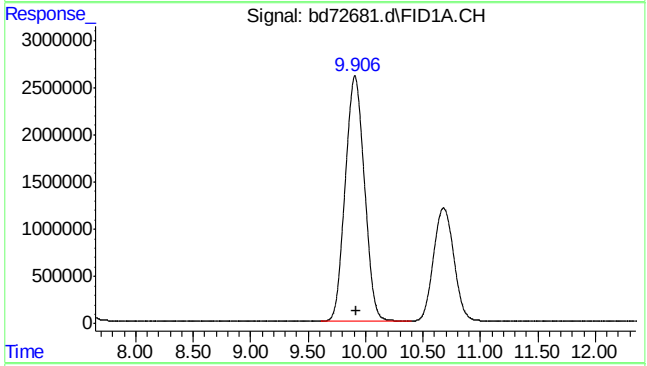


SGS ACCUTEST MC45799



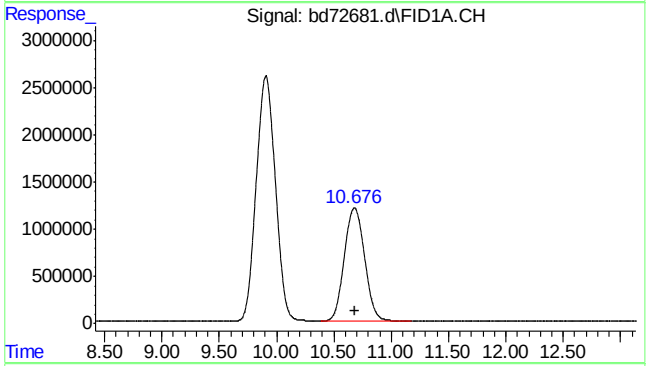
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 250696304
Conc: 426.89 ppb m



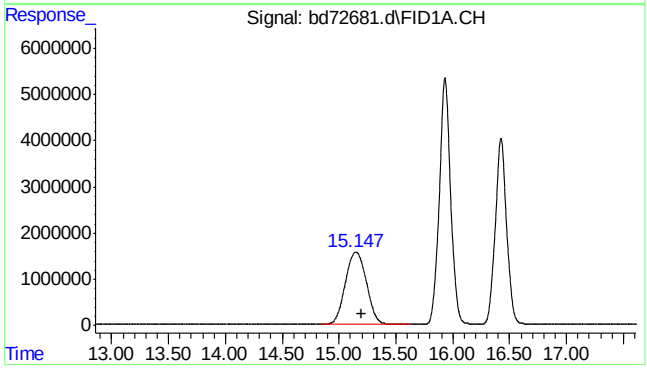
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 302369528
Conc: 442.95 ppb m



#3 mtbe

R.T.: 10.677 min
Delta R.T.: -0.006 min
Response: 149463905
Conc: 497.90 ppb



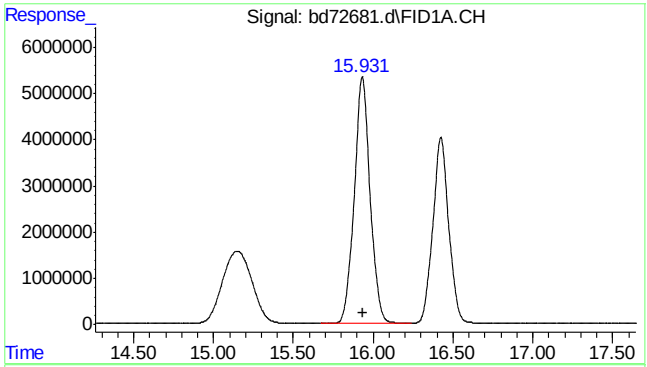
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 202634743
Conc: 293.05 ppb m

7.5.9

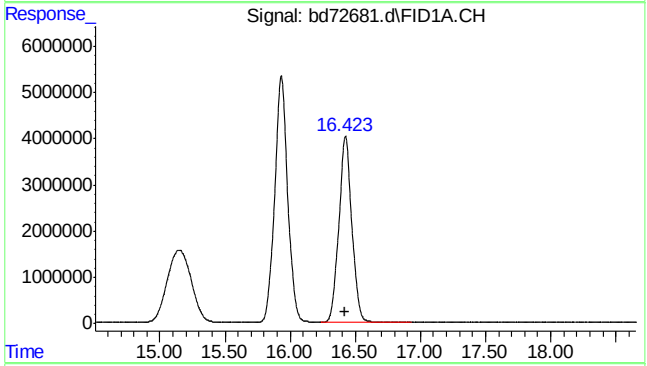
7

SGS ACCUTEST MC45799



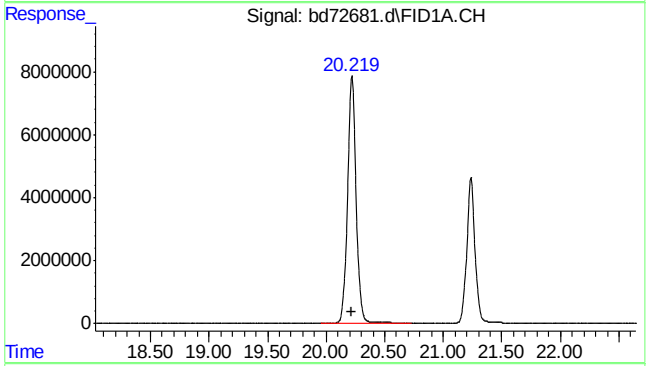
#5 benzene

R.T.: 15.932 min
Delta R.T.: -0.001 min
Response: 369202764
Conc: 472.03 ppb



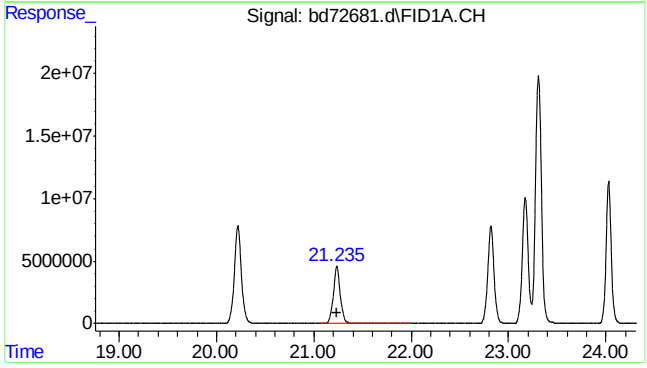
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 280256461
Conc: 399.89 ppb



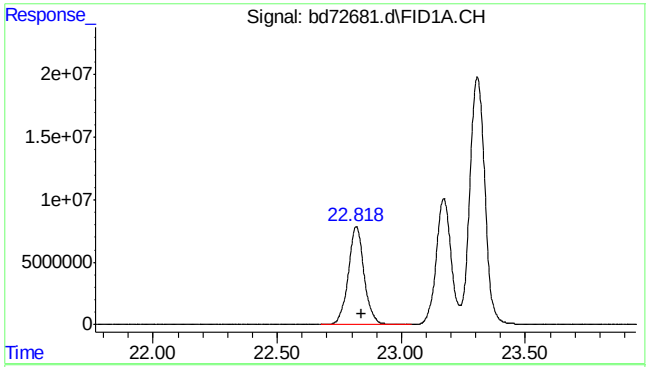
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 393743577
Conc: 507.85 ppb



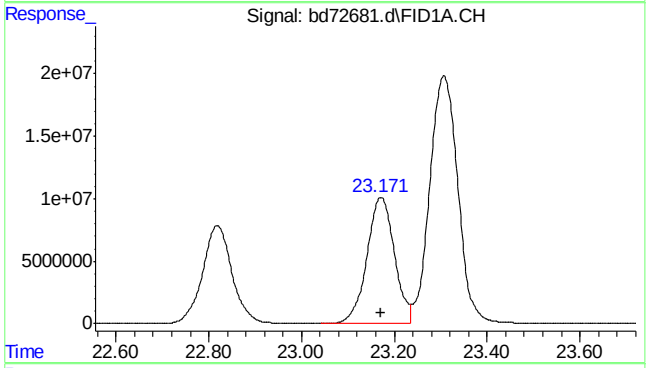
#9 2,3,4-trifluorotoluene

R.T.: 21.236 min
Delta R.T.: 0.000 min
Response: 223973992
Conc: 419.81 ppb



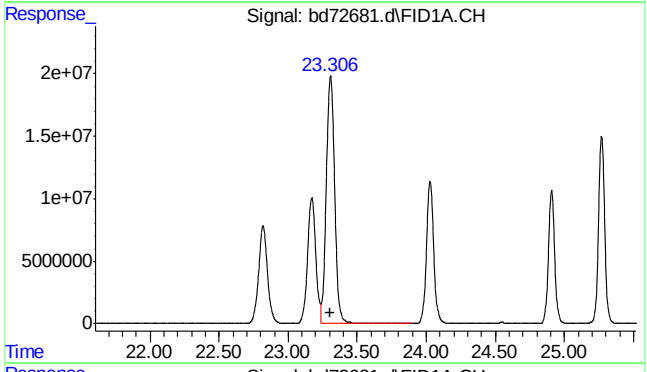
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 346681859
Conc: 407.86 ppb m



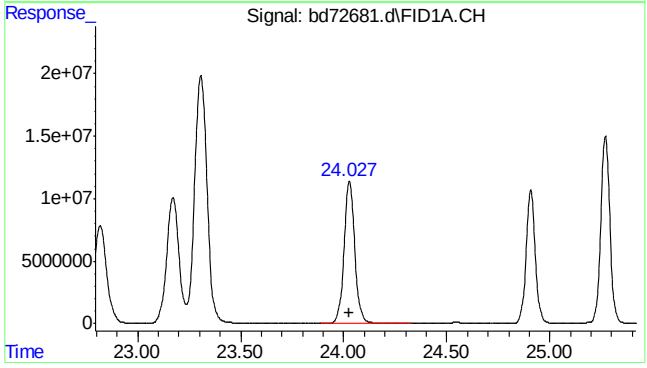
#13 ethylbenzene

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 415193330
Conc: 526.10 ppb



#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 837537821
Conc: 1013.41 ppb



#15 o-xylene

R.T.: 24.028 min
Delta R.T.: -0.001 min
Response: 409323205
Conc: 488.46 ppb

7.5.9

7

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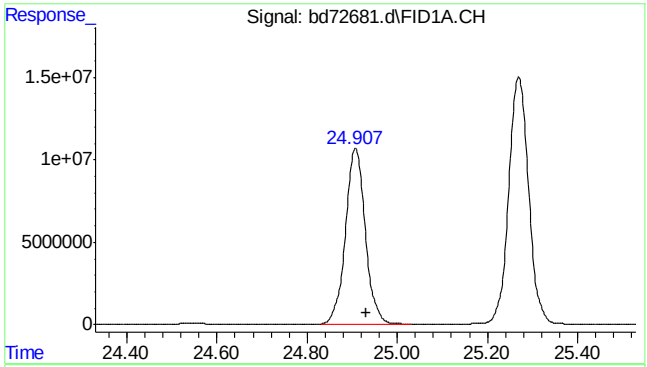
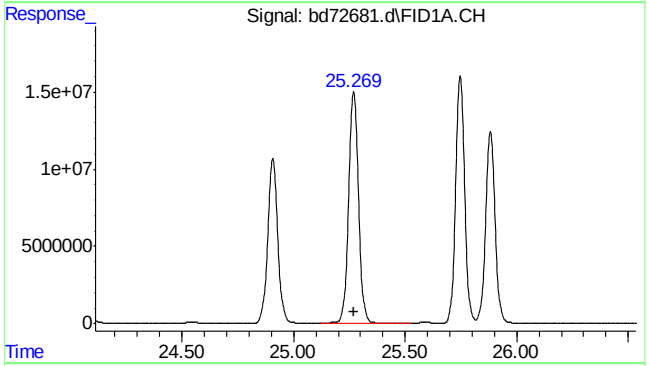


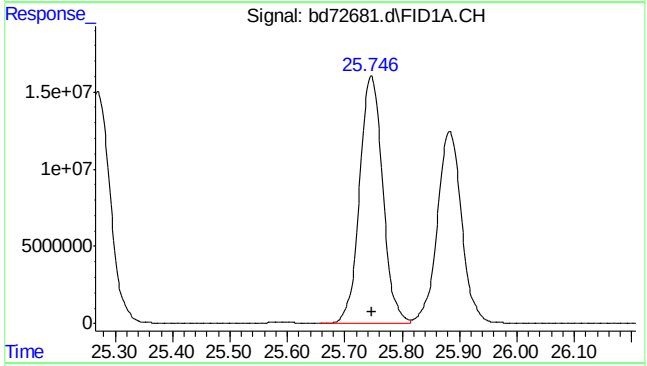
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 328410851
Conc: 338.58 ppb



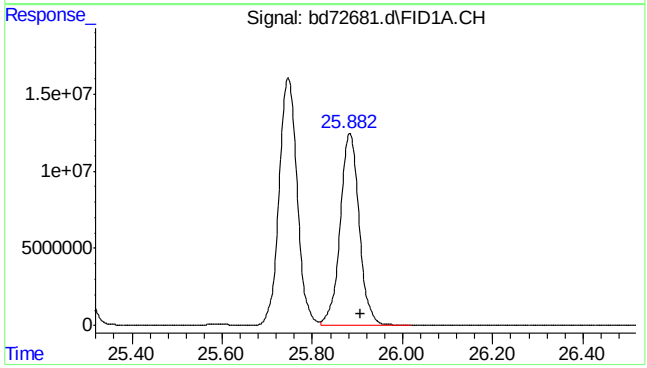
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 460707488
Conc: 495.76 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 446599621
Conc: 505.87 ppb



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 364778065
Conc: 372.76 ppb

7.5.9

7

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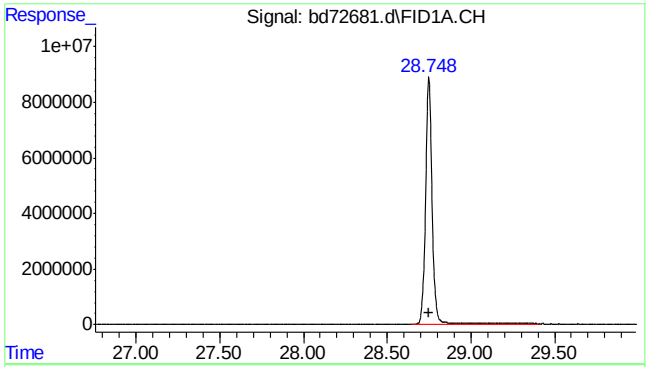
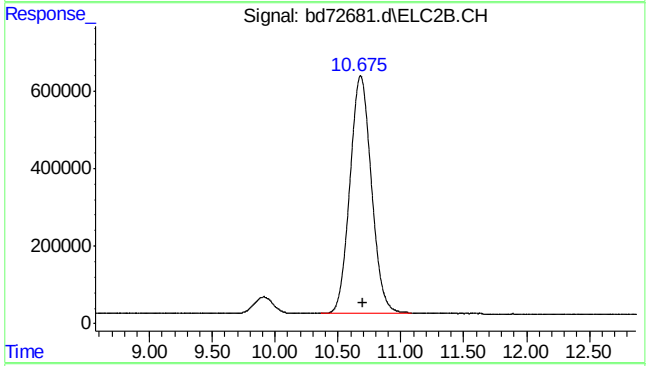


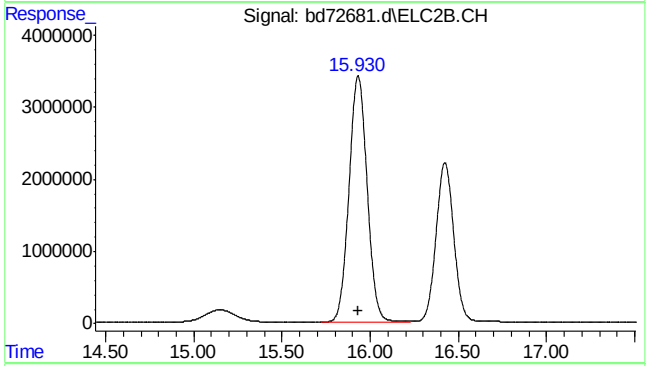
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 235968786
Conc: 568.42 ppb m



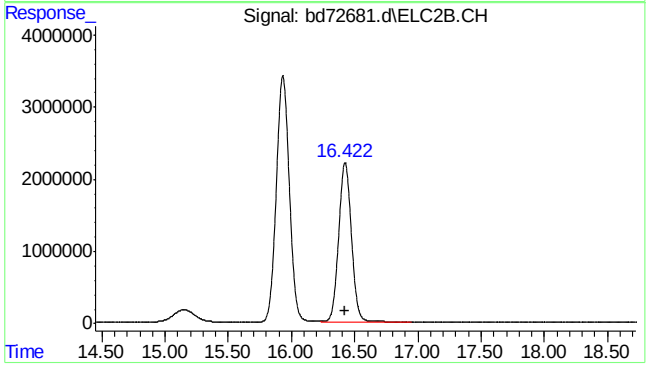
#23 mtbe #2

R.T.: 10.676 min
Delta R.T.: -0.020 min
Response: 72995113
Conc: 462.75 ppb



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 243796320
Conc: 505.10 ppb



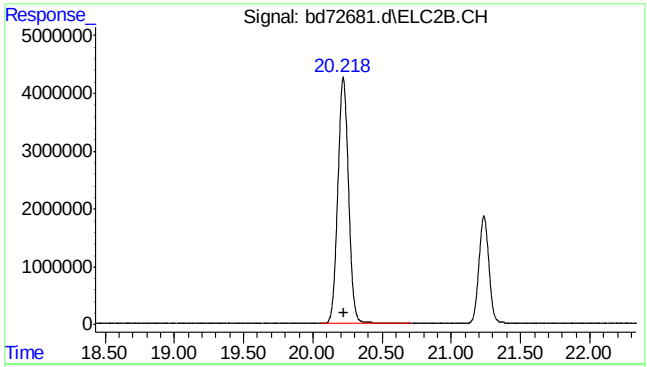
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 154535173
Conc: 444.00 ppb

7.5.9

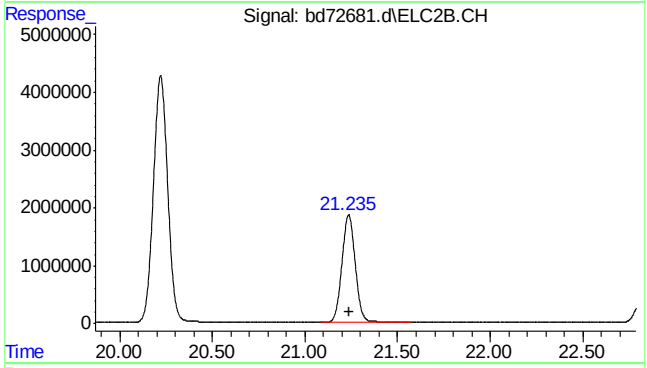
7

SGS ACCUTEST MC45799



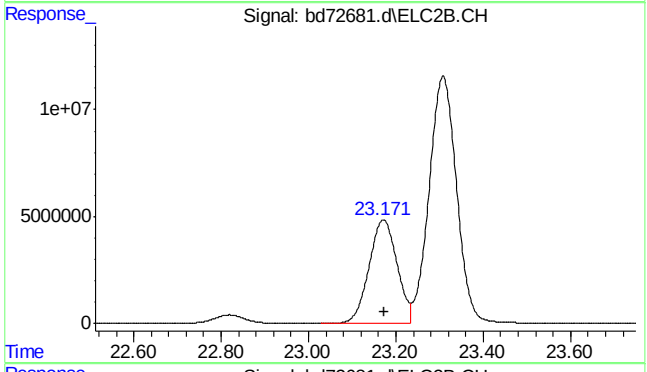
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 229409498
Conc: 509.30 ppb



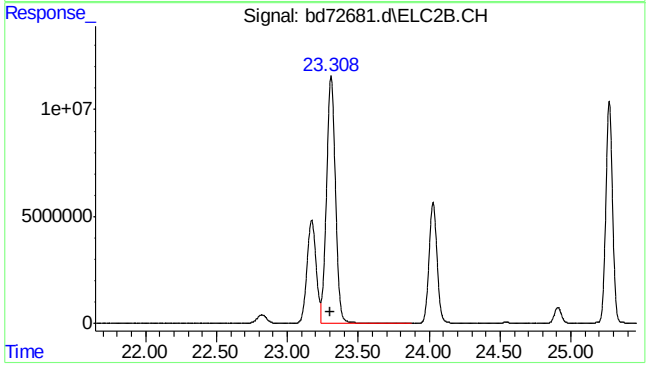
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 93431261
Conc: 469.97 ppb



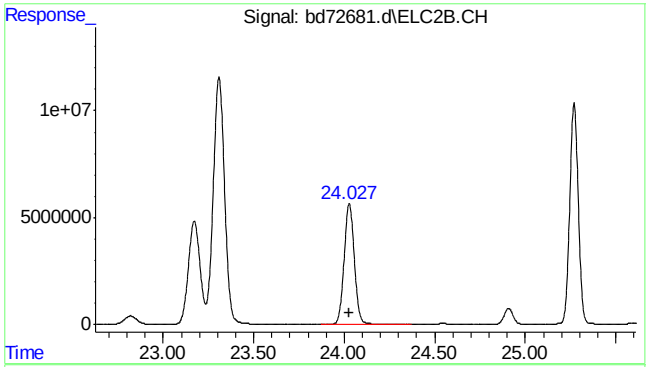
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 214894088
Conc: 526.07 ppb



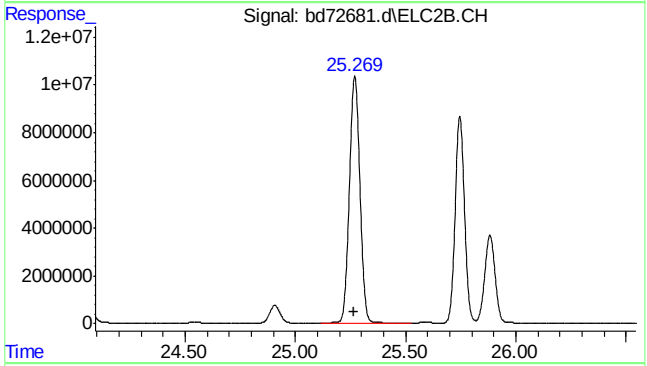
#29 m,p-xylene #2

R.T.: 23.308 min
Delta R.T.: 0.001 min
Response: 505002305
Conc: 1019.37 ppb



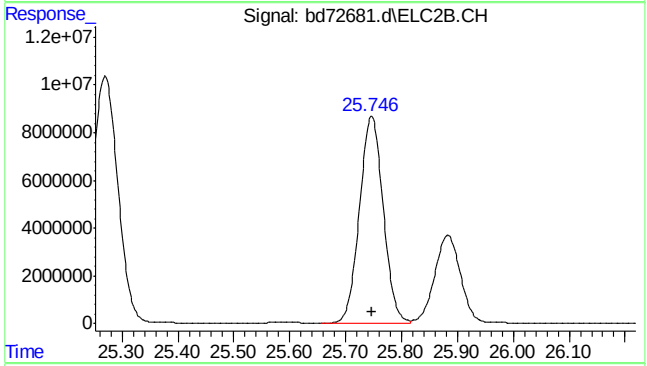
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 220290152
Conc: 511.04 ppb



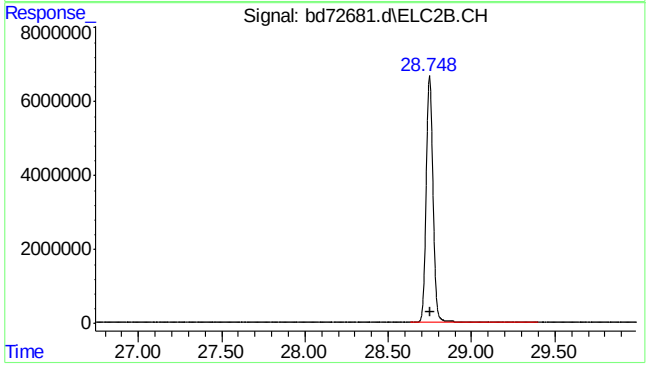
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 339709347
Conc: 507.27 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 256663102
Conc: 526.82 ppb



#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 191420125
Conc: 612.98 ppb m

7.5.9

7

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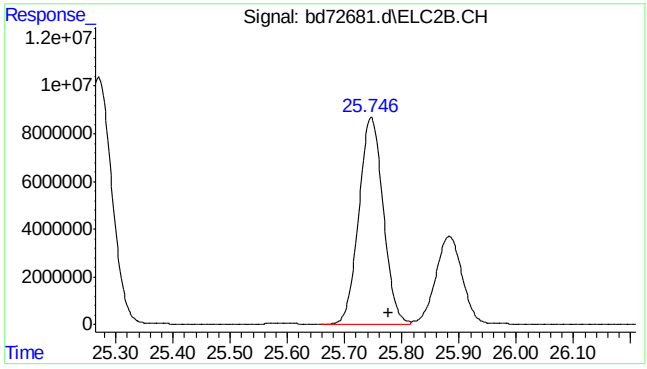


#34 c9-c10 arom as 1,2,4-tmb

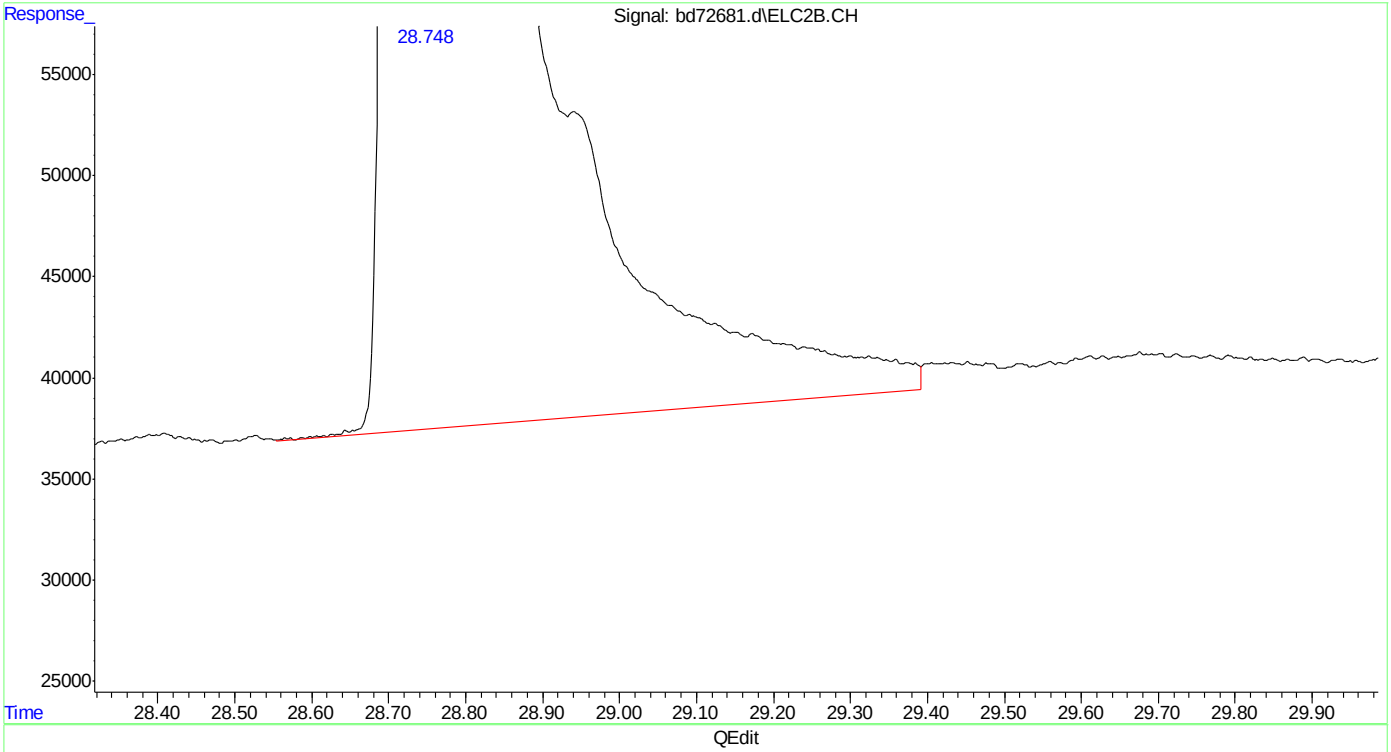
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 256536580
Conc: 526.83 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3752-500
Misc : gc25978,gbd3572,,,,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: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial 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
28.748min 613.914 ppb
response 191710301

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:20:27 2016

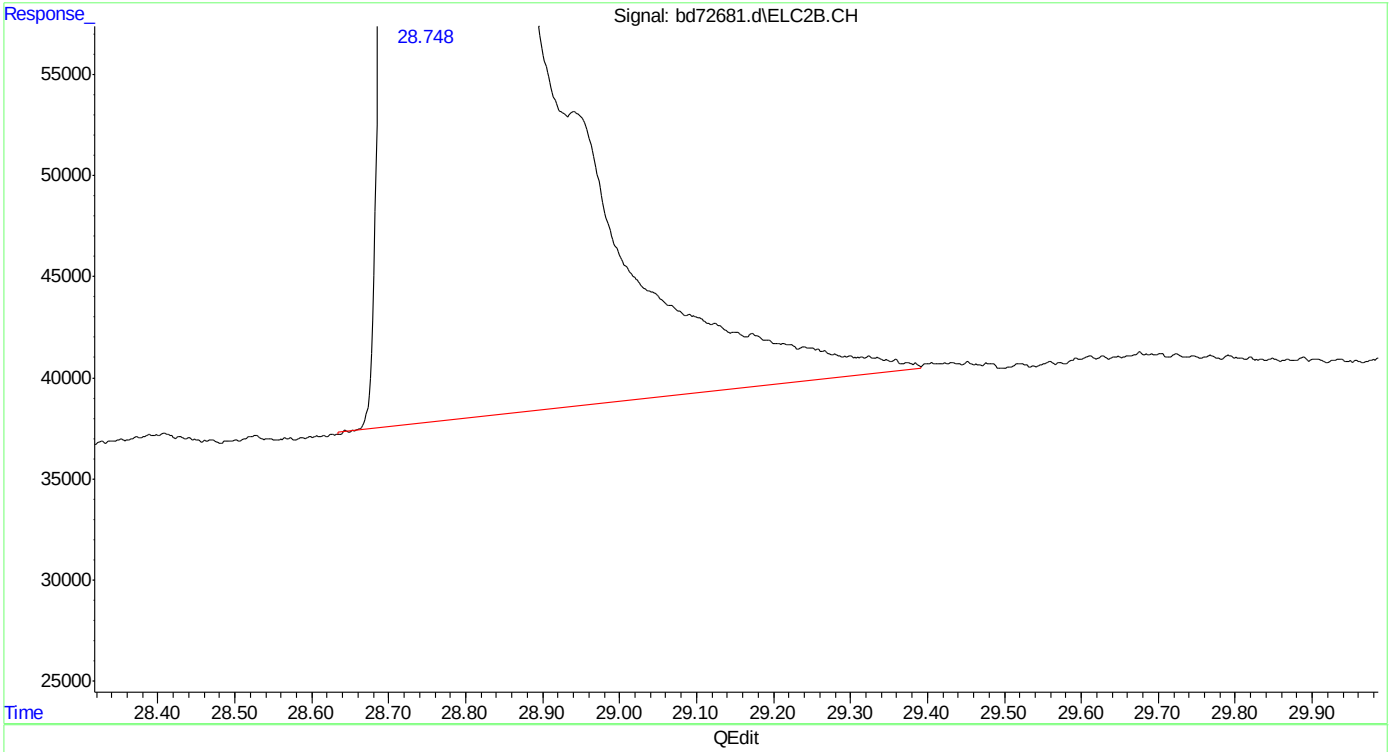
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72681.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:15:10
Operator : tonyf
Sample : ic3752-500
Misc : gc25978,gbd3572,,,,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: Feb 19 13:19:31 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial 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
28.748min 612.985 ppb m
response 191420125

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial 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	16.424	152497733	212.995	ppb	
Spiked Amount 50.000		Recovery = 425.99%			
9) s 2,3,4-trifluorotoluene	21.236	112527515	205.563	ppb	
Spiked Amount 50.000		Recovery = 411.13%			
25) s fluorobenzene #2	16.423	80345593	227.934	ppb	
Spiked Amount 50.000		Recovery = 455.87%			
27) s 2,3,4-trifluorotoluen...	21.236	47736212	238.550	ppb	
Spiked Amount 50.000		Recovery = 477.10%			
Target Compounds					
1) h rt5.5-7	7.470	149066038	254.483	ppb	m
2) h rt7/10	9.920	173228736	254.409	ppb	m
3) mtbe	10.678	84104242	285.923	ppb	
4) h rt10/13	15.200	140035220	196.306	ppb	m
5) benzene	15.931	191470179	243.953	ppb	
8) toluene	20.220	185707723	237.863	ppb	
11) h rt20/25	22.840	158091359	178.378	ppb	m
13) ethylbenzene	23.172	190000309	239.278	ppb	
14) m,p-xylene	23.307	432876904	527.961	ppb	
15) o-xylene	24.029	200540345	237.621	ppb	
16) h decane	24.930	160400652	156.533	ppb	
17) t 1,3,5-trimethylbenzene	25.270	228714832	245.482	ppb	
18) 1,2,4-trimethylbenzene	25.747	227512016	259.035	ppb	
19) h butylcyclohexane	25.908	187694750	184.640	ppb	
20) naphthalene	28.749	124639753	310.645	ppb	m
23) mtbe #2	10.677f	40250861	256.049	ppb	
24) benzene #2	15.931	127028075	265.510	ppb	
26) toluene #2	20.220	118896684	266.435	ppb	
28) ethylbenzene #2	23.171	108390981	268.086	ppb	
29) m,p-xylene #2	23.307	257583489	523.422	ppb	
30) o-xylene #2	24.028	110009431	256.095	ppb	
31) t 1,3,5-trimethylbenzen...	25.270	168355318	251.628	ppb	
32) 1,2,4-trimethylbenzen...	25.747	127084846	262.750	ppb	
33) naphthalene #2	28.749	101943811	343.988	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	127045219	262.812	ppb	m

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

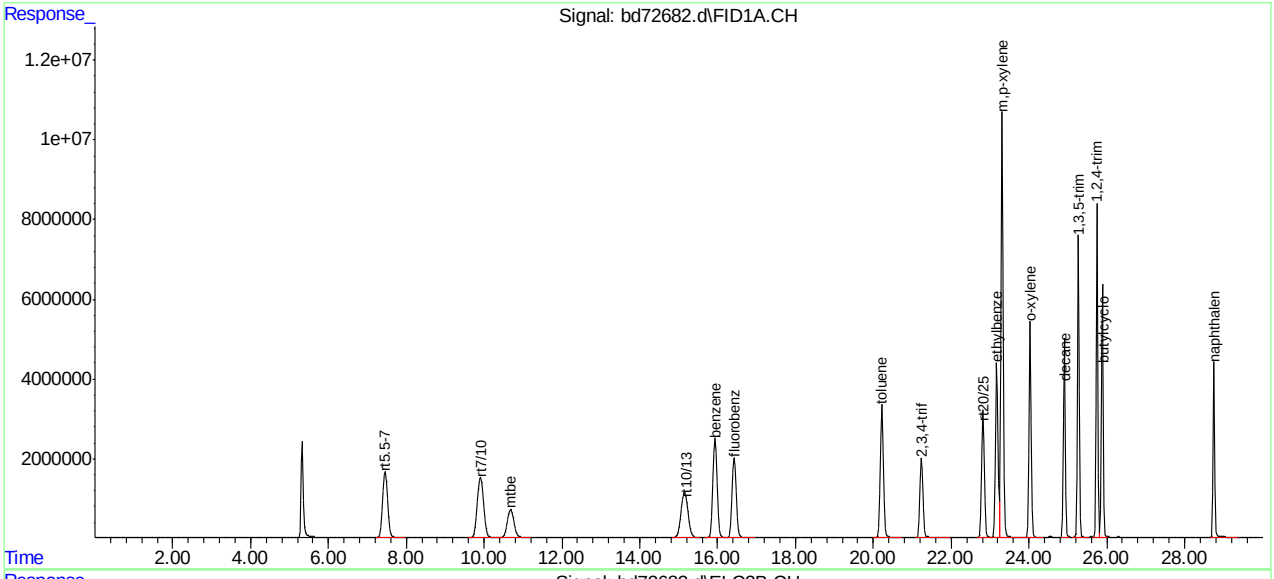
SGS ACCUTEST MC45799

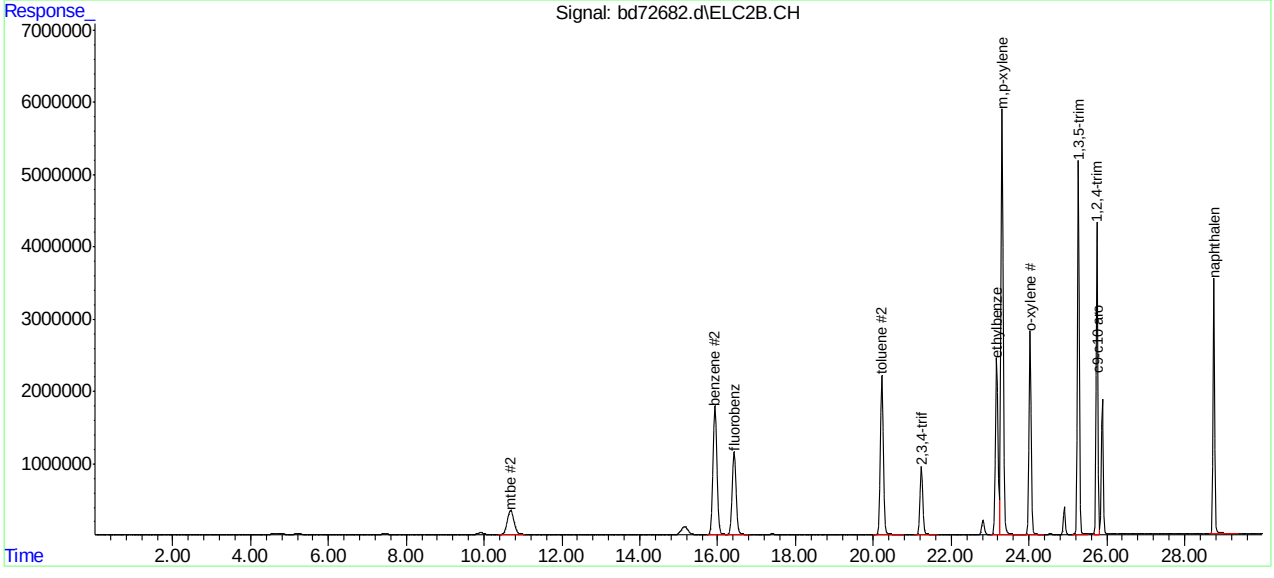
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3572-250 (Sig #1); ic3752-250 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

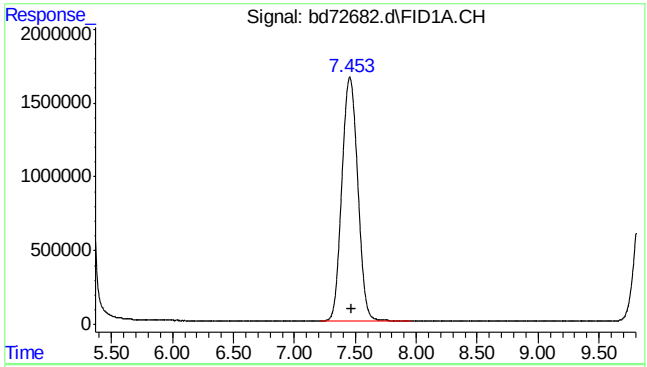
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



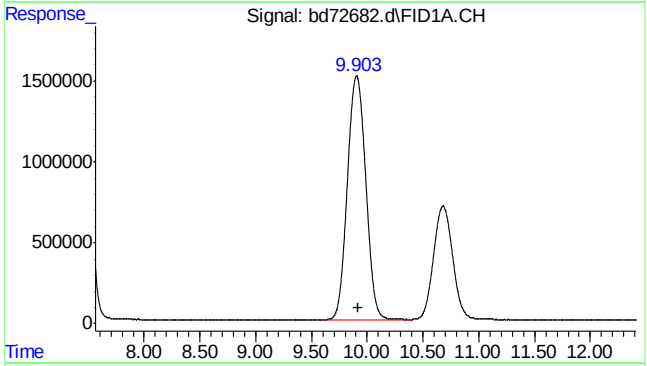


SGS ACCUTEST MC45799



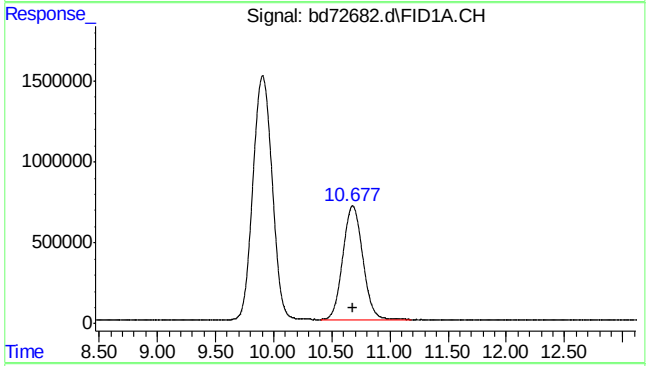
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 149066038
Conc: 254.48 ppb m



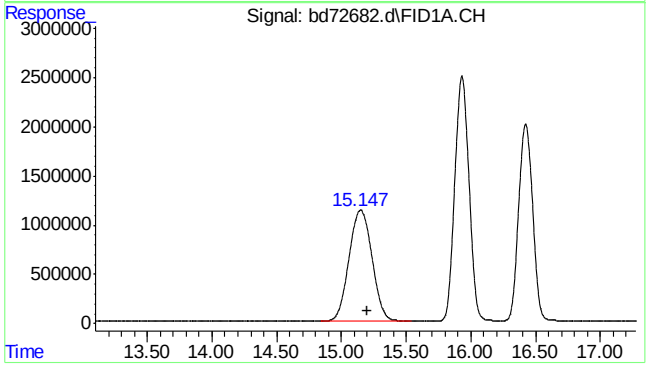
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 173228736
Conc: 254.41 ppb m



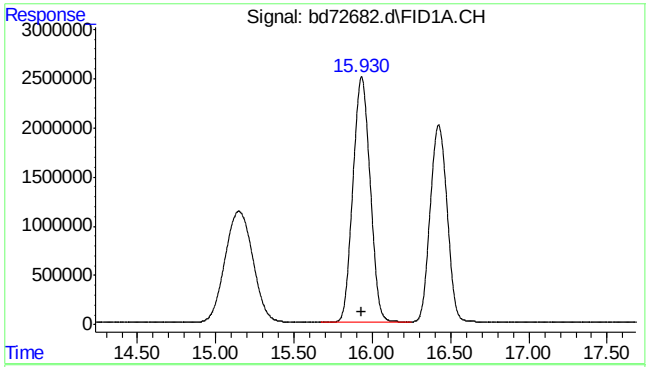
#3 mtbe

R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 84104242
Conc: 285.92 ppb



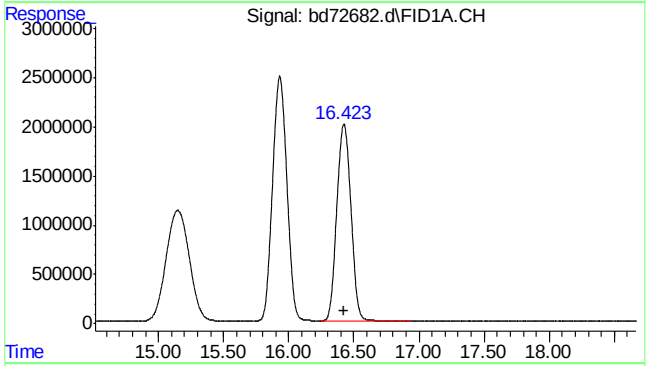
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 140035220
Conc: 196.31 ppb m



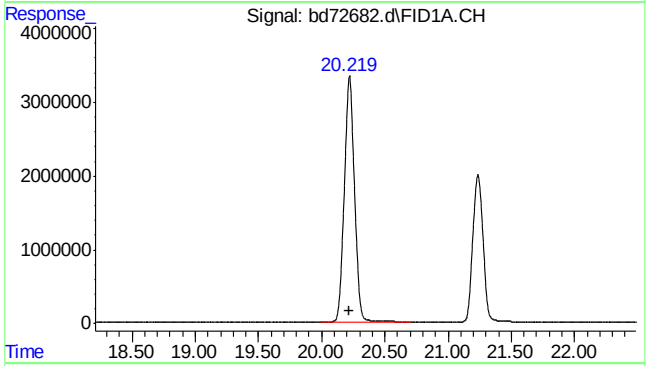
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 191470179
Conc: 243.95 ppb



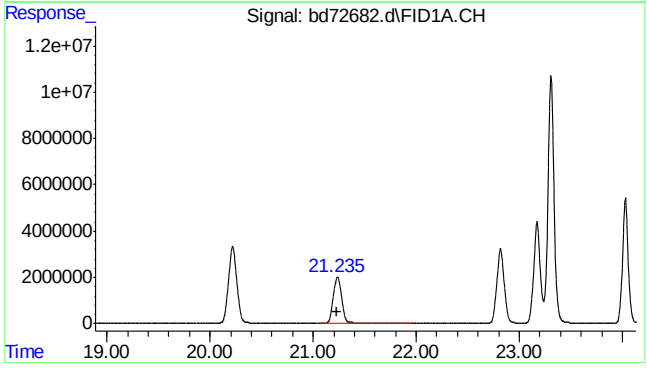
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 152497733
Conc: 212.99 ppb



#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 185707723
Conc: 237.86 ppb



#9 2,3,4-trifluorotoluene

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 112527515
Conc: 205.56 ppb

7.5.10

7

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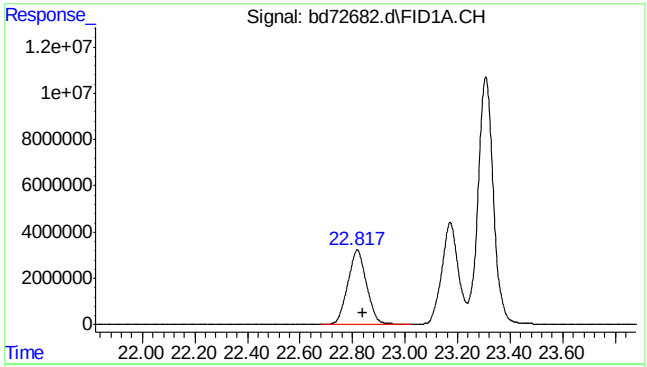
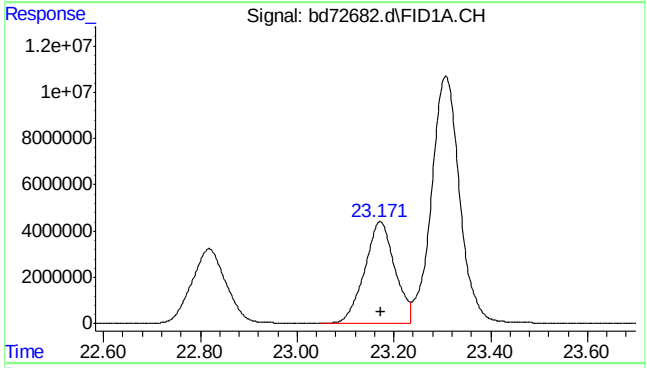


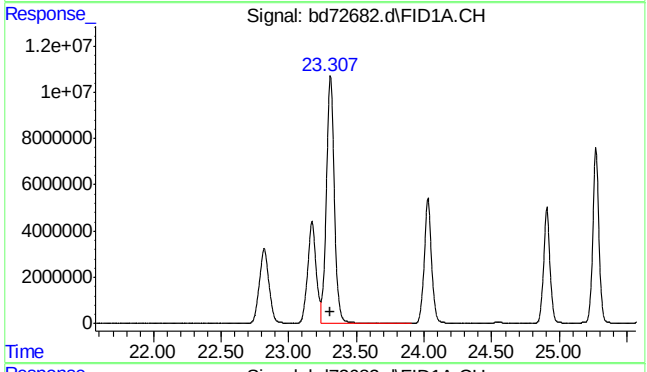
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 158091359
Conc: 178.38 ppb m



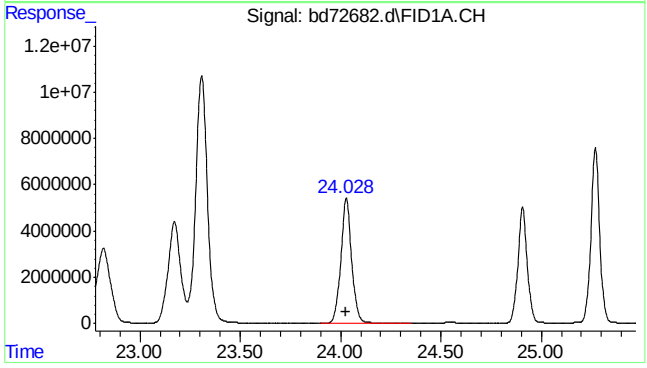
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 190000309
Conc: 239.28 ppb



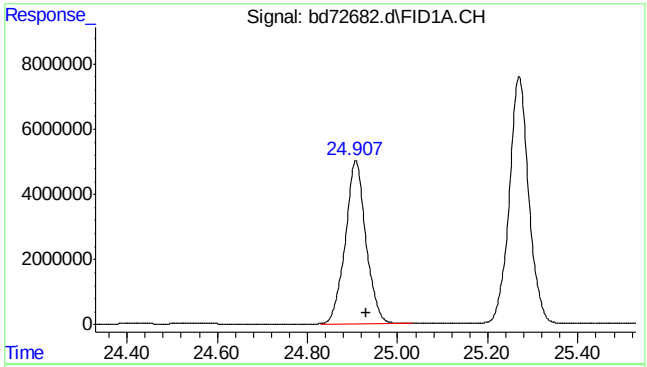
#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 432876904
Conc: 527.96 ppb



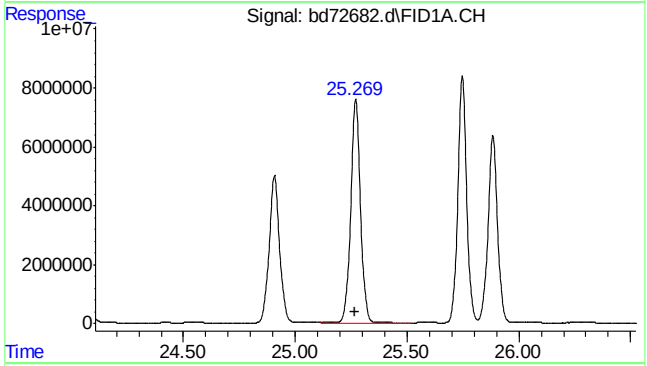
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 200540345
Conc: 237.62 ppb



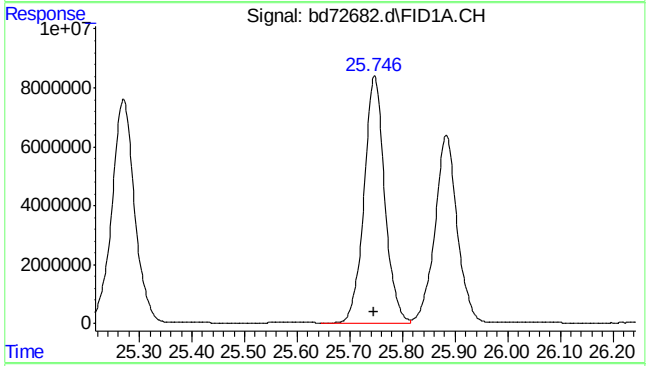
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 160400652
Conc: 156.53 ppb



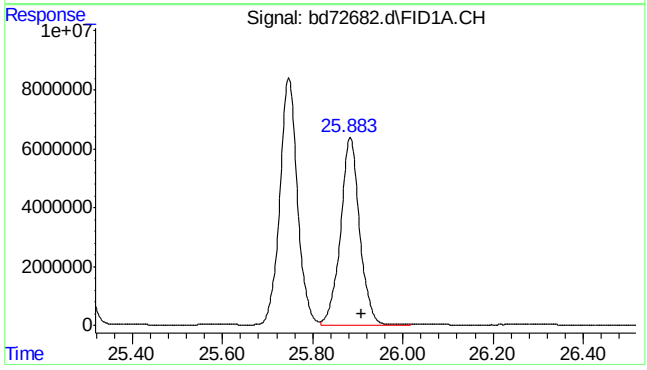
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 228714832
Conc: 245.48 ppb



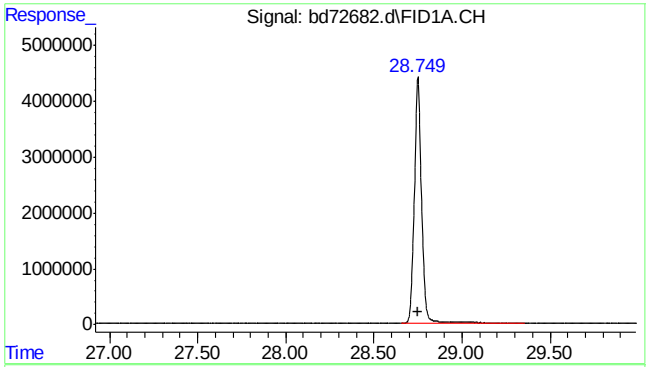
#18 1,2,4-trimethylbenzene

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 227512016
Conc: 259.04 ppb



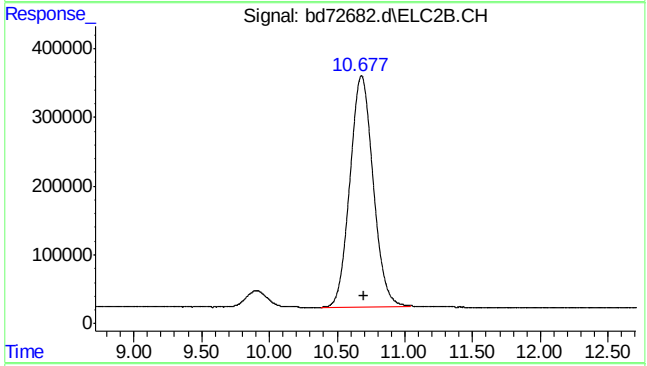
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 187694750
Conc: 184.64 ppb



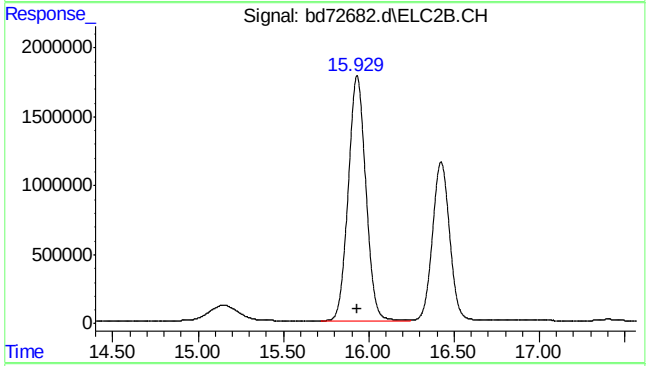
#20 naphthalene

R.T.: 28.749 min
Delta R.T.: -0.002 min
Response: 124639753
Conc: 310.64 ppb m



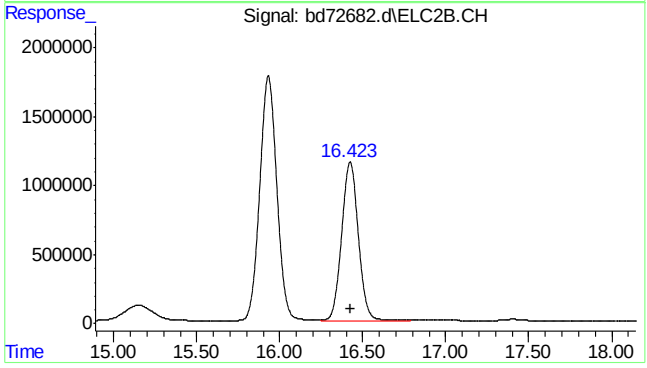
#23 mtbe #2

R.T.: 10.677 min
Delta R.T.: -0.019 min
Response: 40250861
Conc: 256.05 ppb



#24 benzene #2

R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 127028075
Conc: 265.51 ppb



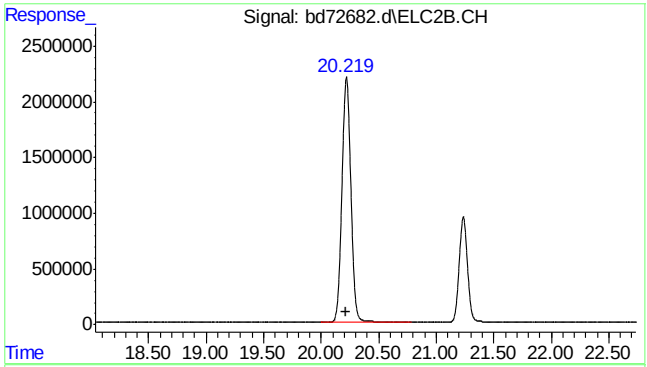
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 80345593
Conc: 227.93 ppb

7.5.10

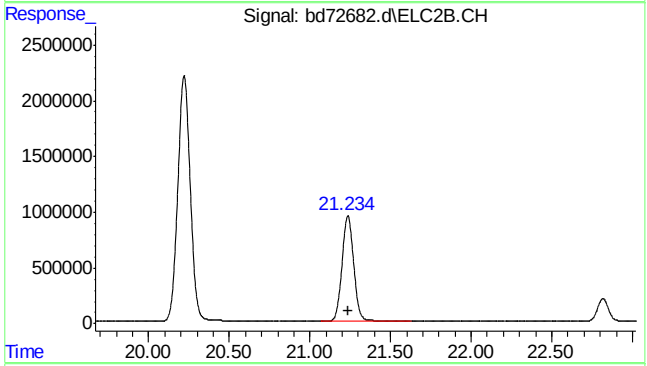
7

SGS ACCUTEST MC45799



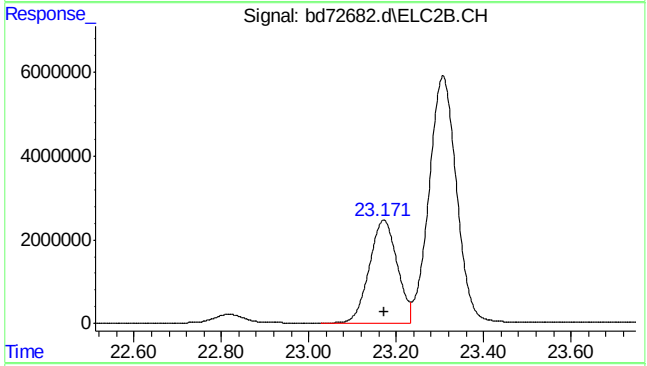
#26 toluene #2

R.T.: 20.220 min
Delta R.T.: -0.001 min
Response: 118896684
Conc: 266.44 ppb



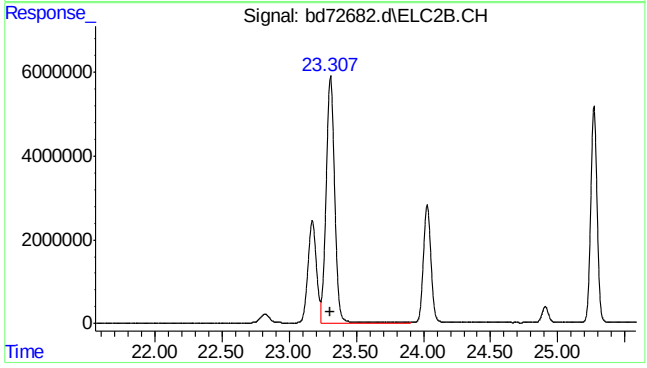
#27 2,3,4-trifluorotoluene #2

R.T.: 21.236 min
Delta R.T.: -0.001 min
Response: 47736212
Conc: 238.55 ppb



#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 108390981
Conc: 268.09 ppb



#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 257583489
Conc: 523.42 ppb

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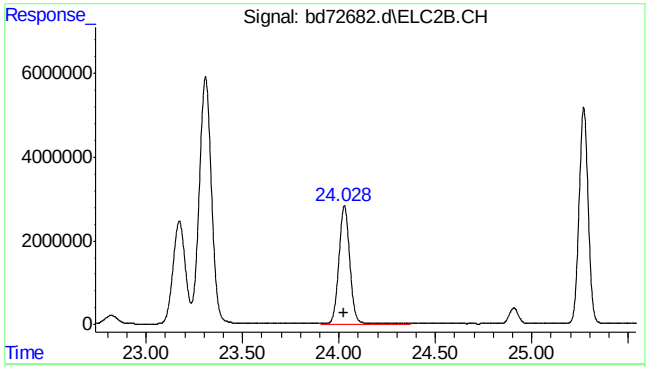
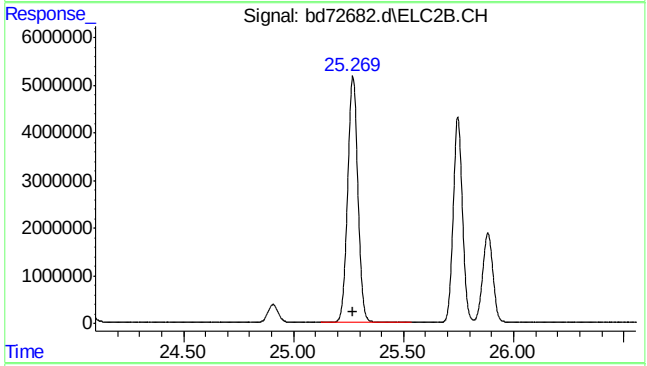


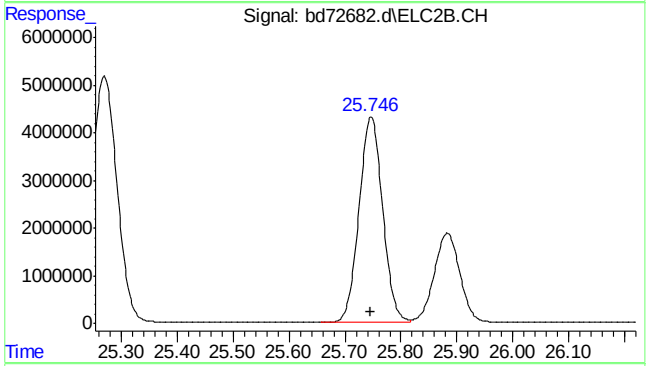
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 110009431
Conc: 256.10 ppb



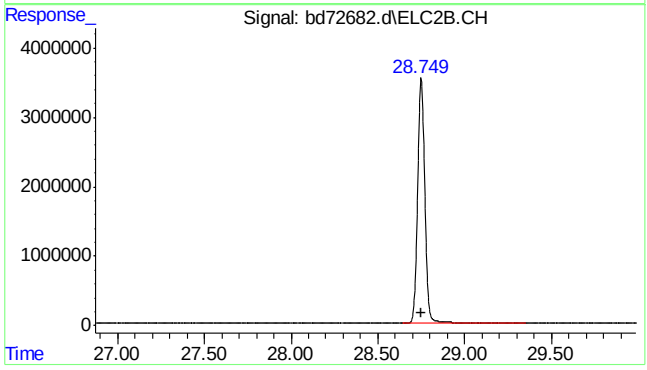
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.002 min
Response: 168355318
Conc: 251.63 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 127084846
Conc: 262.75 ppb



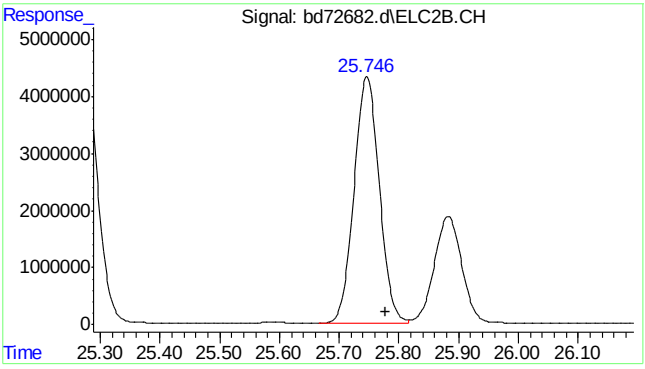
#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: -0.001 min
Response: 101943811
Conc: 343.99 ppb m

7.5.10

7

SGS ACCUTEST MC45799




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

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 127045219
      Conc: 262.81 ppb m
```

7.5.10

7

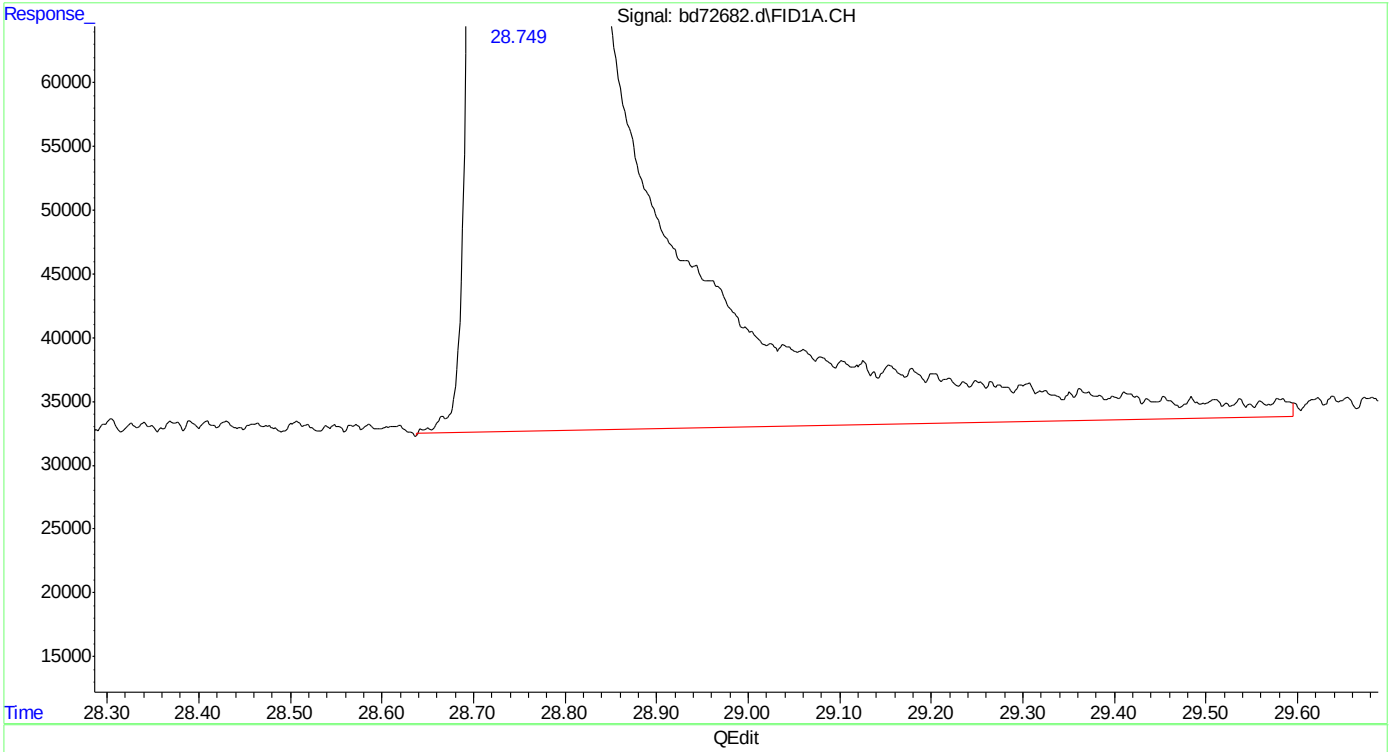
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,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: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial 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
28.750min 311.972 ppb
response 125172255

(+) = Expected Retention Time

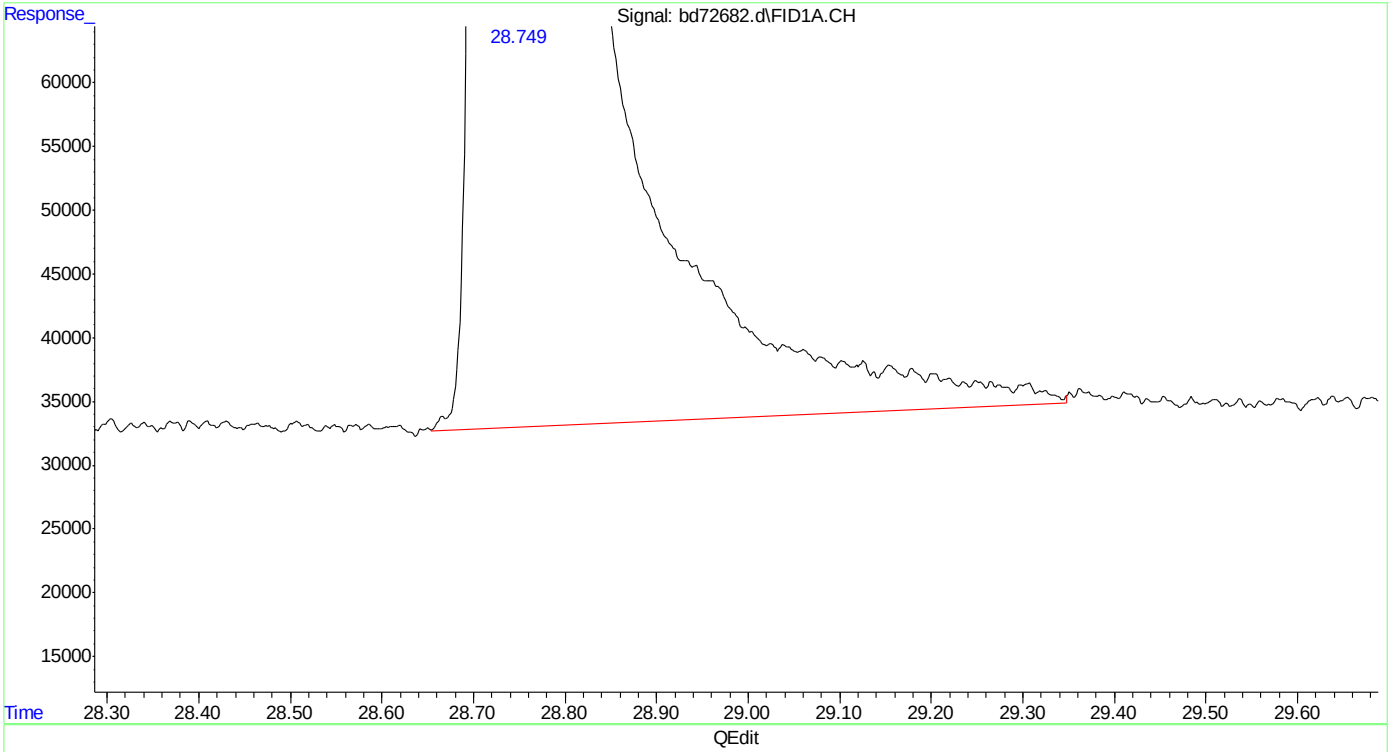
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,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: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial 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
28.749min 310.645 ppb m
response 124639753

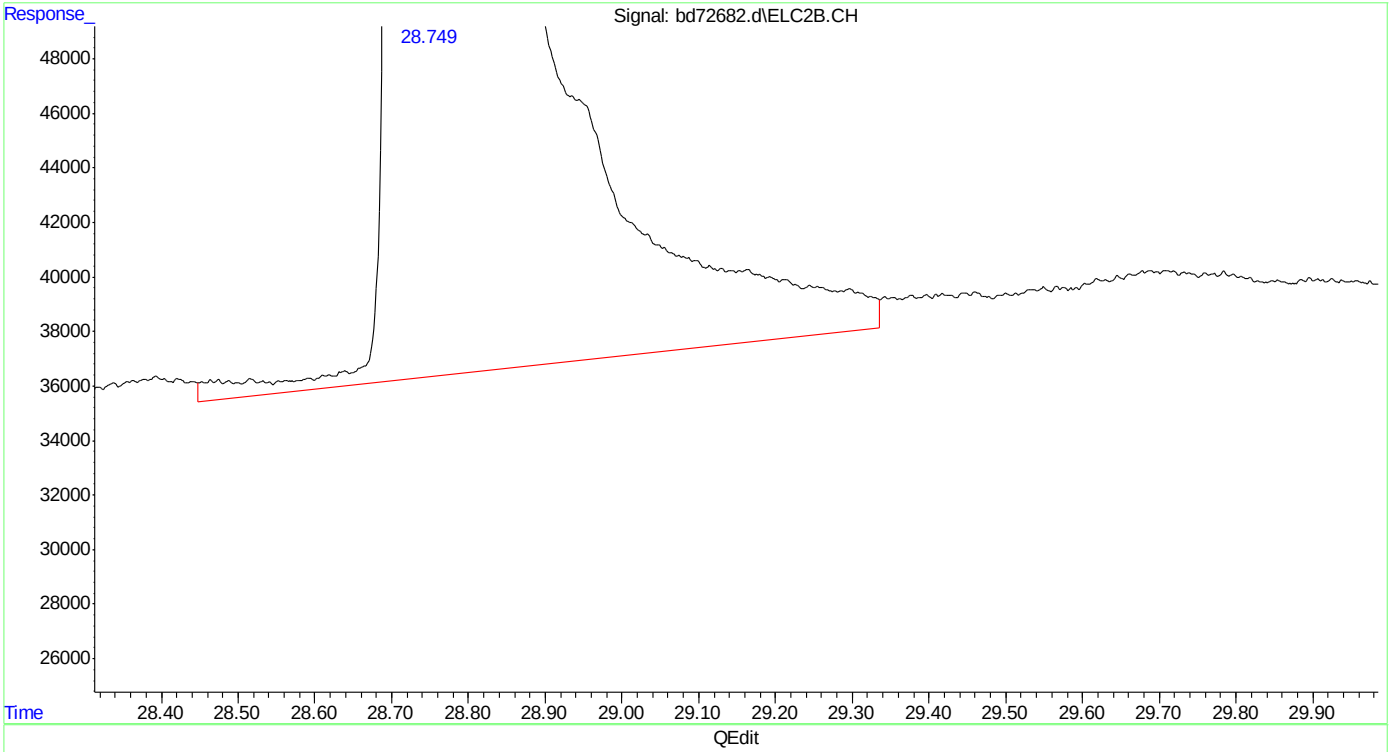
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:28 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 08:52:27
Operator  : tonyf
Sample    : ic3752-250
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial 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

28.749min 345.179 ppb

response 102296947

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:18:44 2016

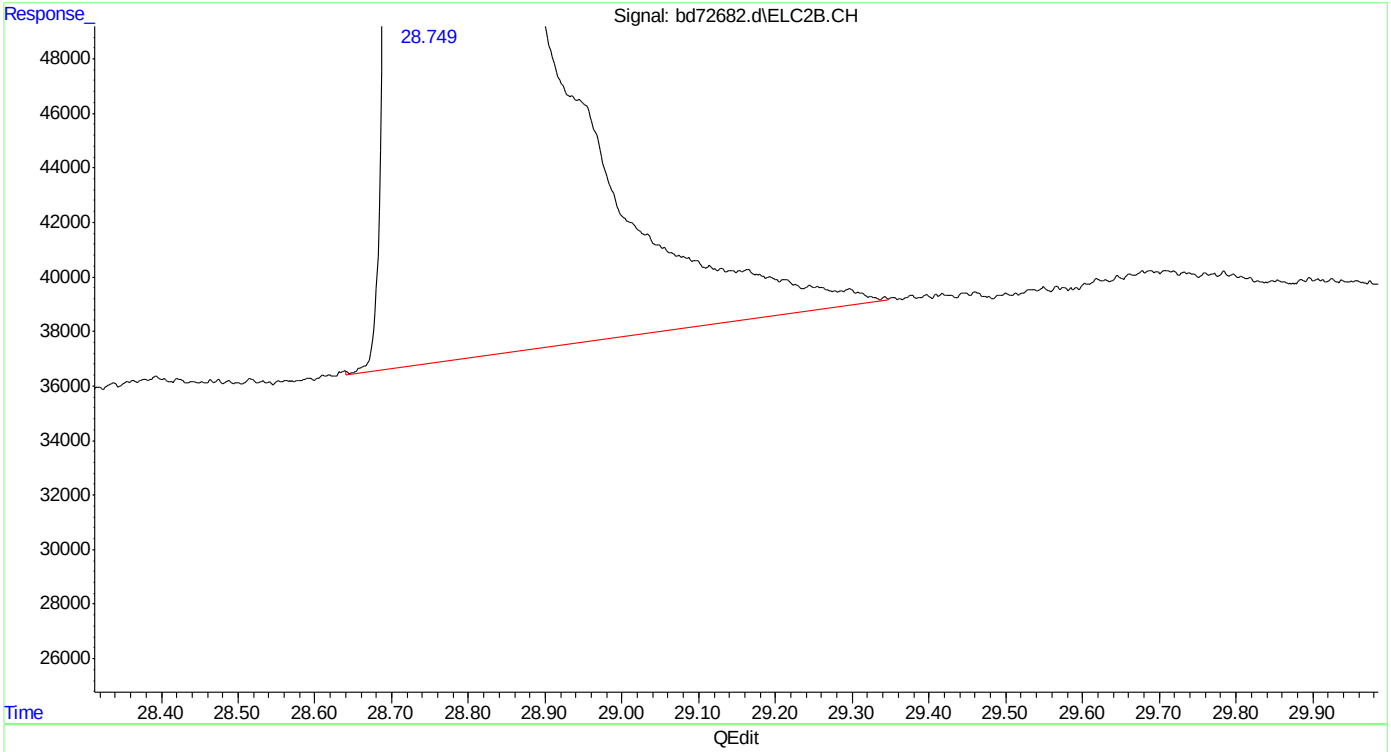
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72682.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 08:52:27
Operator : tonyf
Sample : ic3752-250
Misc : gc25978,gbd3572,,,,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: Feb 19 13:17:36 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial 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
28.749min 343.988 ppb m
response 101943811

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:18:52 2016

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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	16.423	70079072	97.467	ppb	
Spiked Amount 50.000		Recovery = 194.93%			
9) s 2,3,4-trifluorotoluene	21.235	54927490	100.409	ppb	
Spiked Amount 50.000		Recovery = 200.82%			
25) s fluorobenzene #2	16.423	32202770	89.804	ppb	
Spiked Amount 50.000		Recovery = 179.61%			
27) s 2,3,4-trifluorotoluen...	21.235	18910642	93.473	ppb	
Spiked Amount 50.000		Recovery = 186.95%			
Target Compounds					
1) h rt5.5-7	7.470	64982591	113.418	ppb	m
2) h rt7/10	9.920	74322538	111.188	ppb	m
3) mtbe	10.681	33800413	118.441	ppb	m
4) h rt10/13	15.200	67623819	93.821	ppb	m
5) benzene	15.931	87774837	114.545	ppb	
8) toluene	20.219	84423859	109.922	ppb	
11) h rt20/25	22.840	74314298	81.227	ppb	m
13) ethylbenzene	23.170	81550653	103.259	ppb	
14) m,p-xylene	23.306	152799260	183.855	ppb	
15) o-xylene	24.027	82145326	96.818	ppb	
16) h decane	24.930	68348944	62.536	ppb	
17) t 1,3,5-trimethylbenzene	25.269	84145233	88.598	ppb	
18) 1,2,4-trimethylbenzene	25.746	81329260	91.247	ppb	
19) h butylcyclohexane	25.908	73745152	68.769	ppb	
20) naphthalene	28.748	53350849	142.355	ppb	m
23) mtbe #2	10.682	16670409	107.344	ppb	m
24) benzene #2	15.930	50557437	106.886	ppb	
26) toluene #2	20.219	47109892	106.757	ppb	
28) ethylbenzene #2	23.170	42468306	106.107	ppb	
29) m,p-xylene #2	23.305	102263487	209.439	ppb	
30) o-xylene #2	24.027	43129270	100.483	ppb	
31) t 1,3,5-trimethylbenzen...	25.268	65671528	97.793	ppb	
32) 1,2,4-trimethylbenzen...	25.746	49399372	102.572	ppb	
33) naphthalene #2	28.748	41651706	152.947	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	49381850	102.596	ppb	m

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

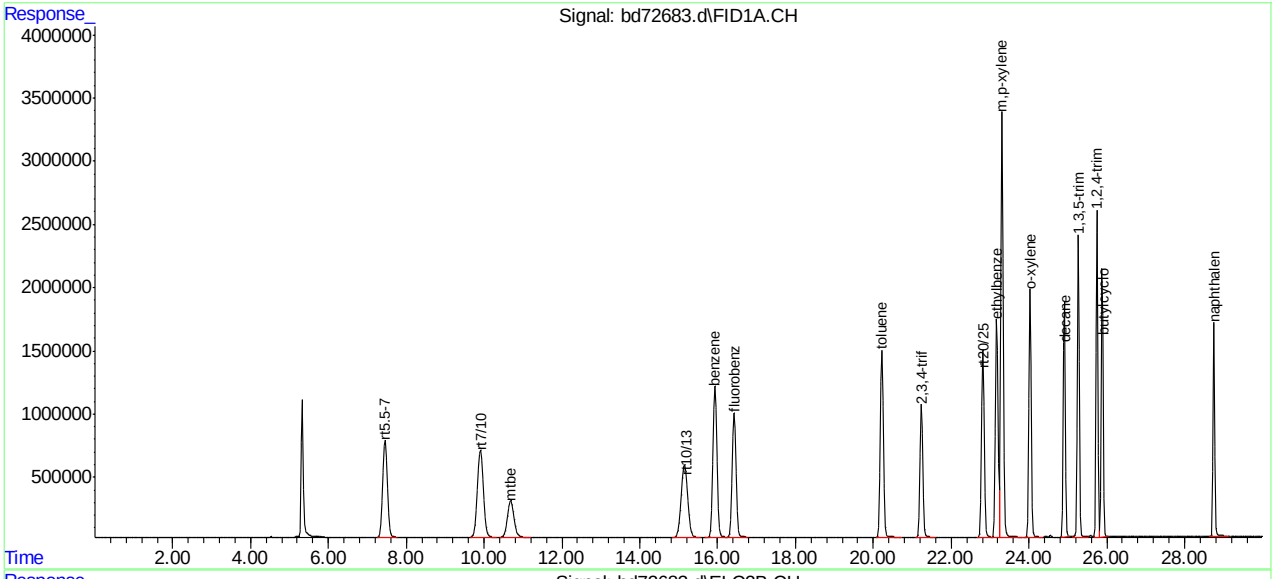
SGS ACCUTEST MC45799

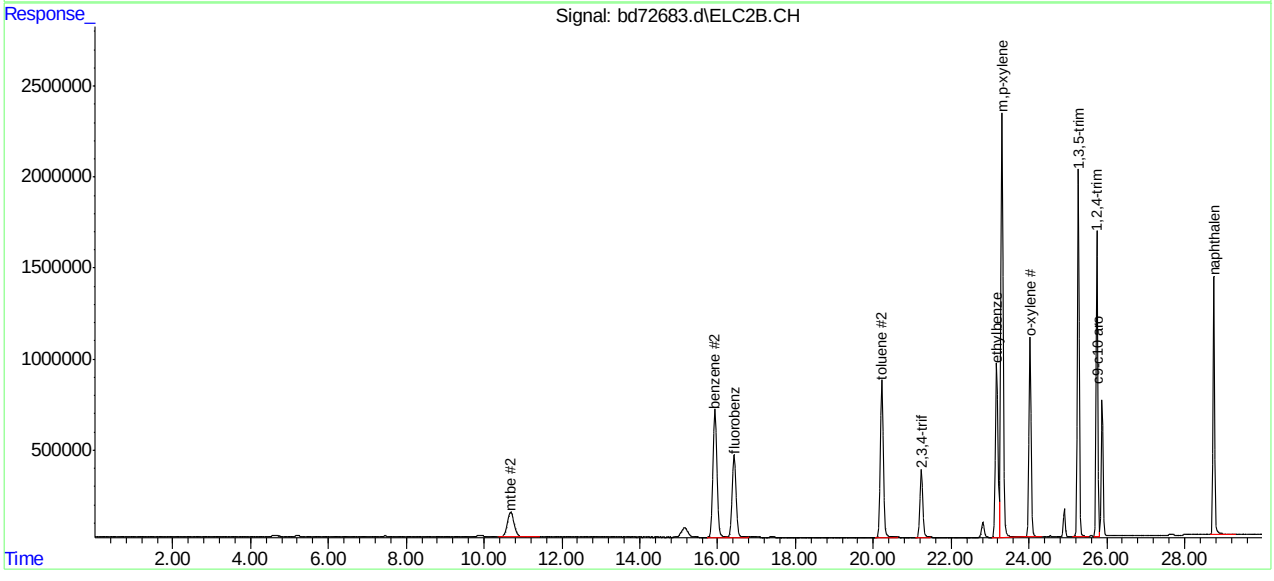
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3572-100 (Sig #1); ic3752-100 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

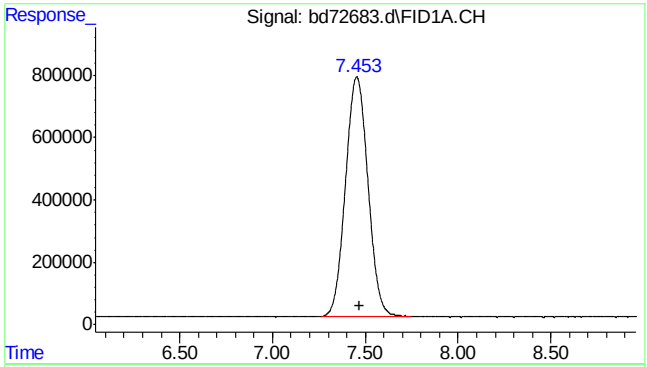
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



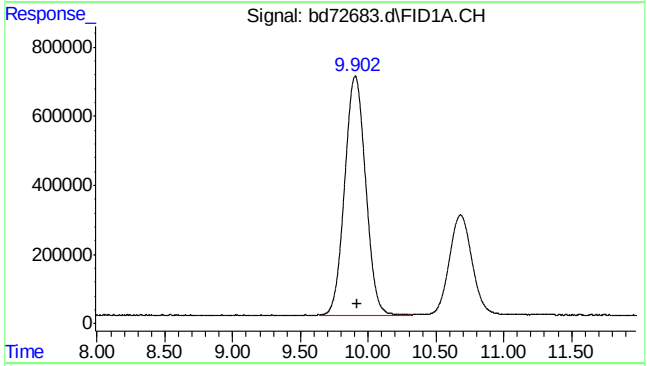


SGS ACCUTEST MC45799



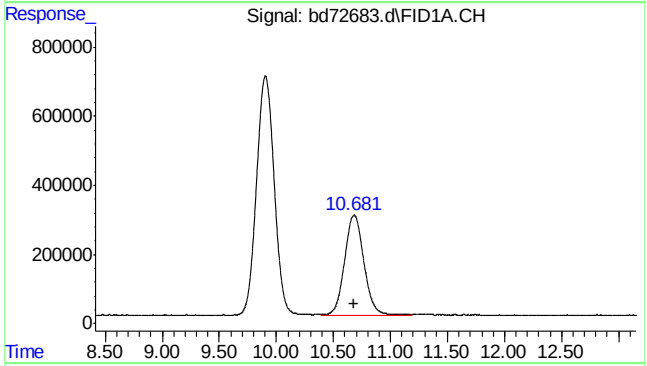
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 64982591
Conc: 113.42 ppb m



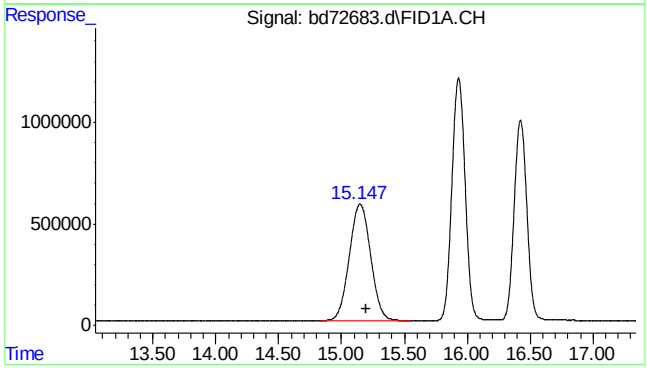
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 74322538
Conc: 111.19 ppb m



#3 mtbe

R.T.: 10.681 min
Delta R.T.: -0.002 min
Response: 33800413
Conc: 118.44 ppb m



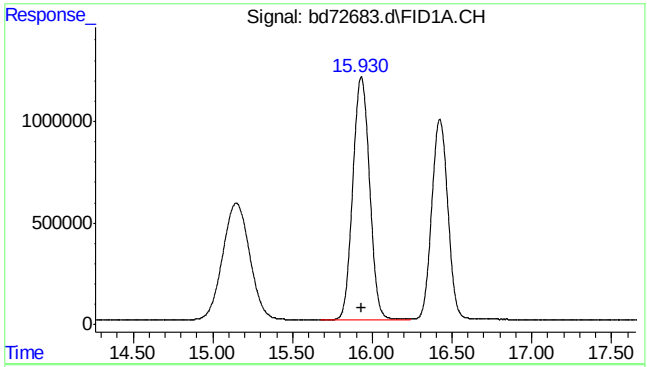
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 67623819
Conc: 93.82 ppb m

7.5.11

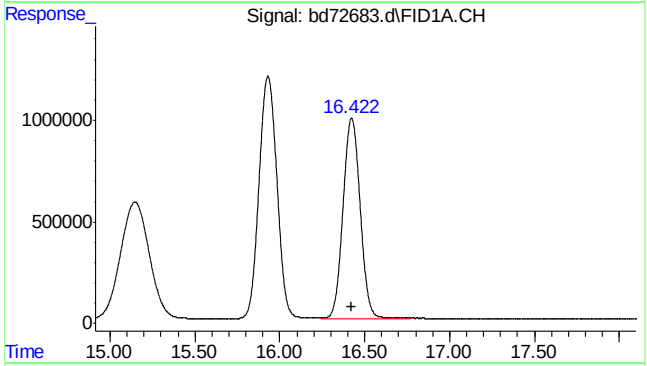
7

SGS ACCUTEST MC45799



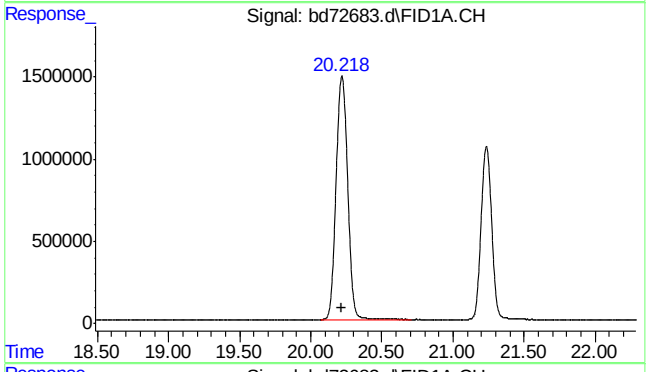
#5 benzene

R.T.: 15.931 min
Delta R.T.: -0.002 min
Response: 87774837
Conc: 114.55 ppb



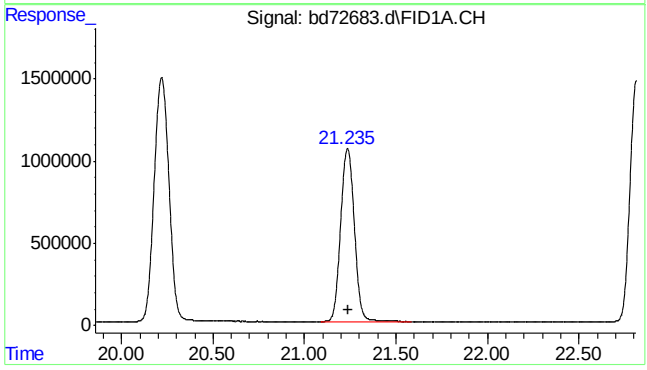
#6 fluorobenzene

R.T.: 16.423 min
Delta R.T.: 0.000 min
Response: 70079072
Conc: 97.47 ppb



#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 84423859
Conc: 109.92 ppb



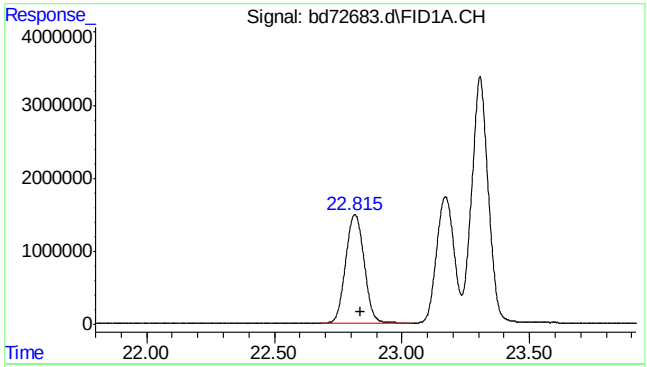
#9 2,3,4-trifluorotoluene

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 54927490
Conc: 100.41 ppb

7.5.11

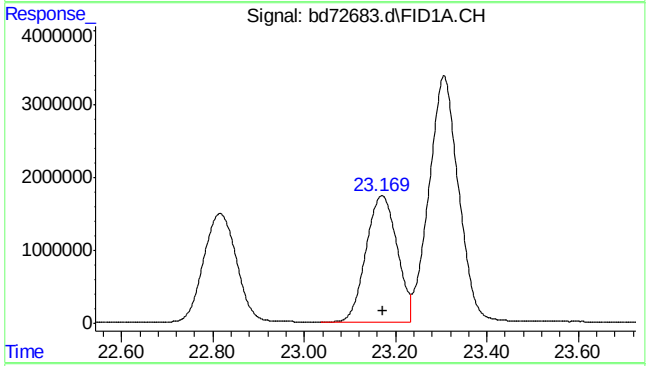
7

SGS ACCUTEST MC45799



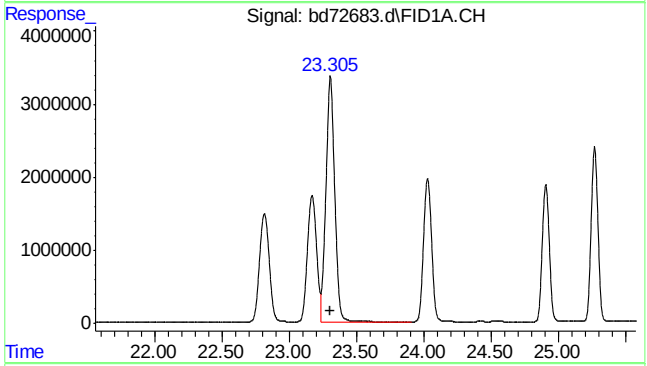
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 74314298
Conc: 81.23 ppb m



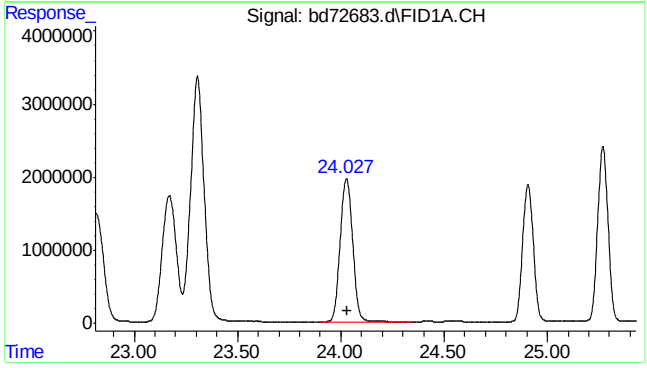
#13 ethylbenzene

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 81550653
Conc: 103.26 ppb



#14 m,p-xylene

R.T.: 23.306 min
Delta R.T.: -0.001 min
Response: 152799260
Conc: 183.86 ppb



#15 o-xylene

R.T.: 24.027 min
Delta R.T.: -0.002 min
Response: 82145326
Conc: 96.82 ppb

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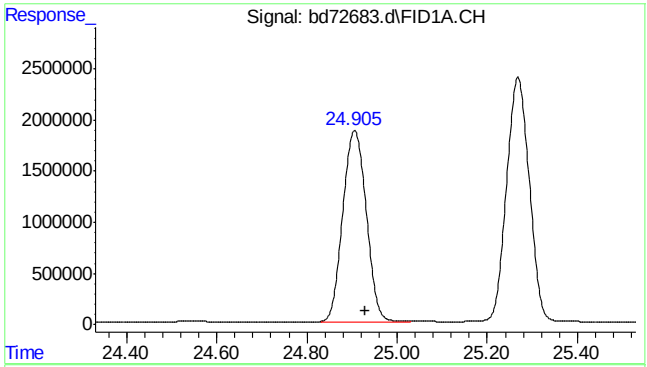
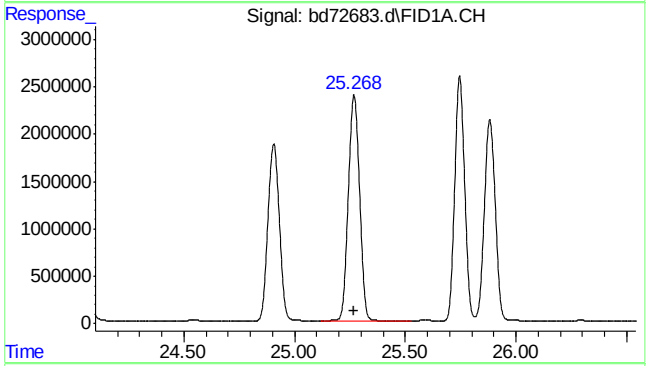


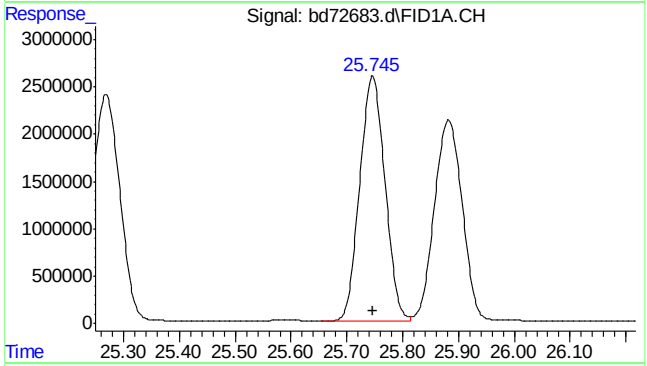
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 68348944
Conc: 62.54 ppb



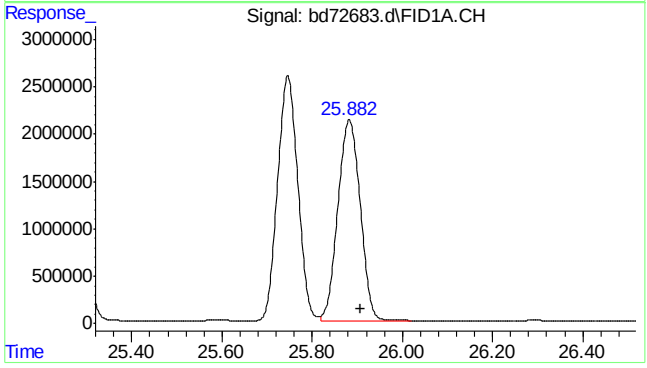
#17 1,3,5-trimethylbenzene

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 84145233
Conc: 88.60 ppb



#18 1,2,4-trimethylbenzene

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 81329260
Conc: 91.25 ppb



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 73745152
Conc: 68.77 ppb

7.5.11

7

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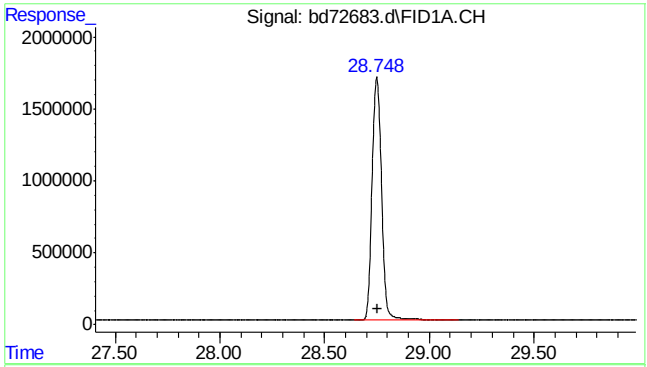
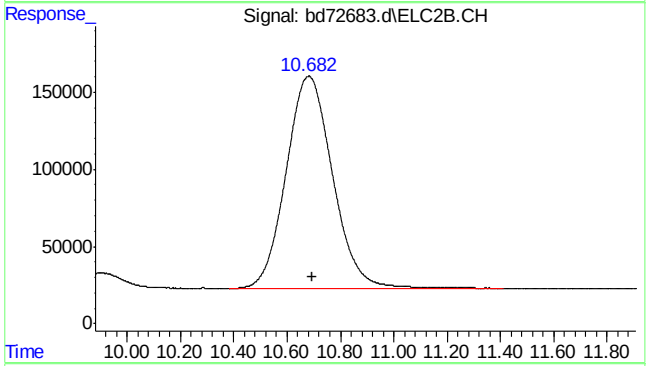


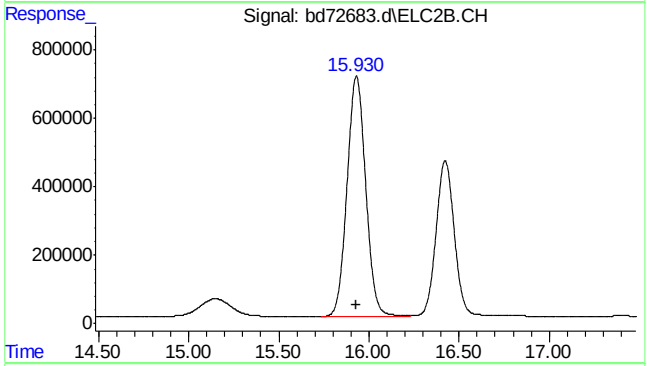
#20 naphthalene

R.T.: 28.748 min
Delta R.T.: -0.003 min
Response: 53350849
Conc: 142.35 ppb m



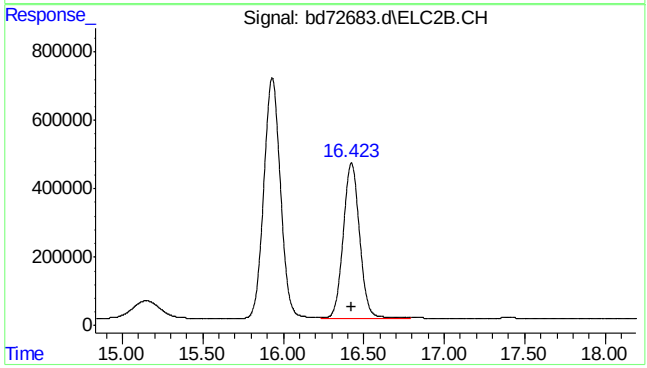
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 16670409
Conc: 107.34 ppb m



#24 benzene #2

R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 50557437
Conc: 106.89 ppb



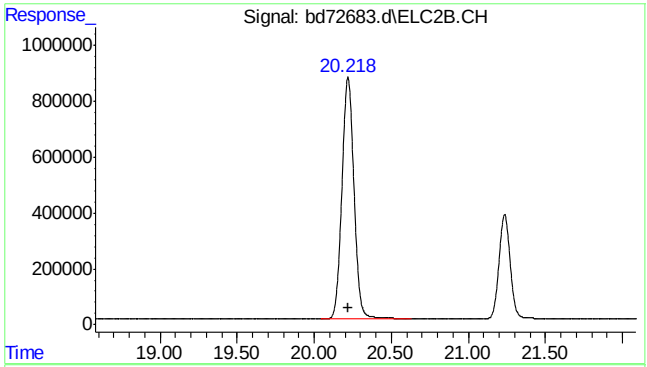
#25 fluorobenzene #2

R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 32202770
Conc: 89.80 ppb

7.5.11

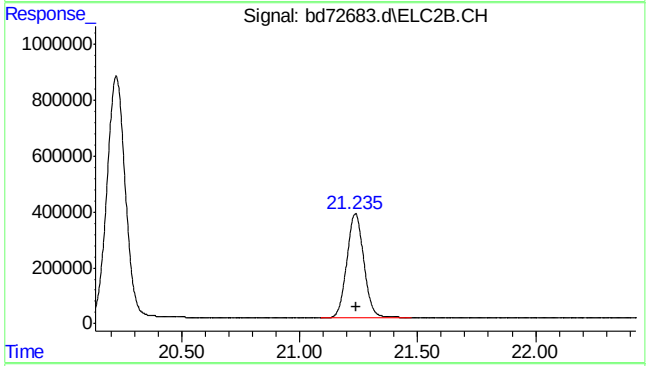
7

SGS ACCUTEST MC45799



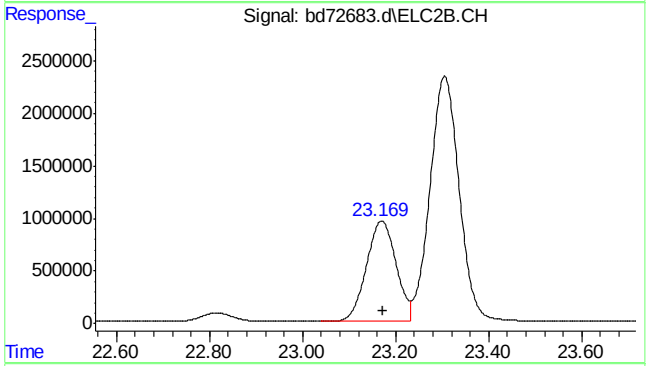
#26 toluene #2

R.T.: 20.219 min
Delta R.T.: -0.002 min
Response: 47109892
Conc: 106.76 ppb



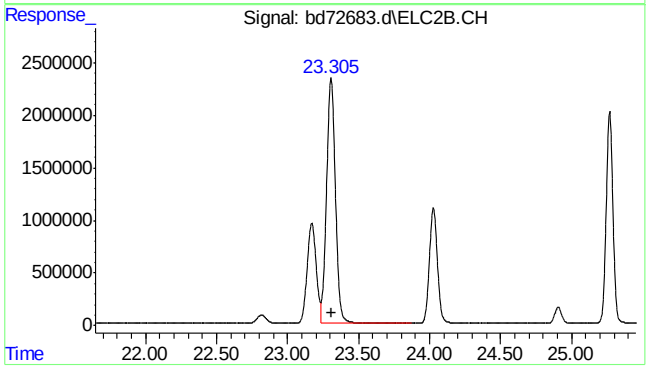
#27 2,3,4-trifluorotoluene #2

R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 18910642
Conc: 93.47 ppb



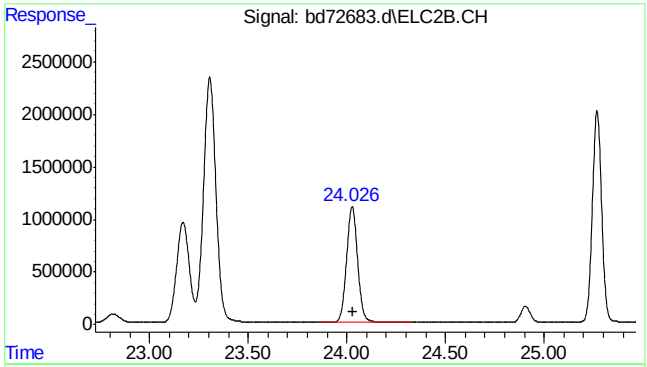
#28 ethylbenzene #2

R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 42468306
Conc: 106.11 ppb



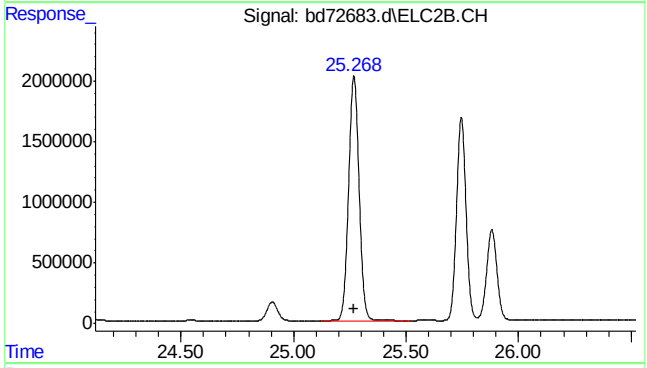
#29 m,p-xylene #2

R.T.: 23.305 min
Delta R.T.: -0.002 min
Response: 102263487
Conc: 209.44 ppb



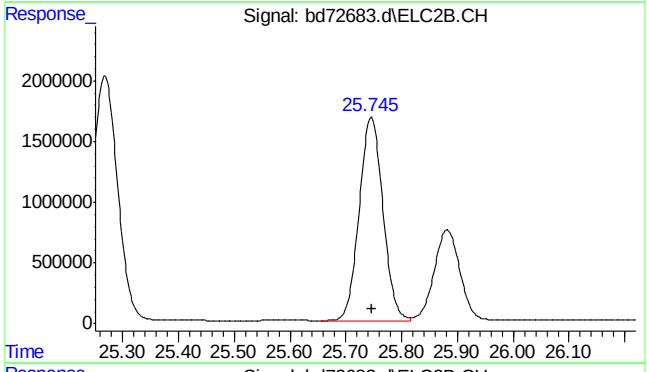
#30 o-xylene #2

R.T.: 24.027 min
Delta R.T.: -0.001 min
Response: 43129270
Conc: 100.48 ppb



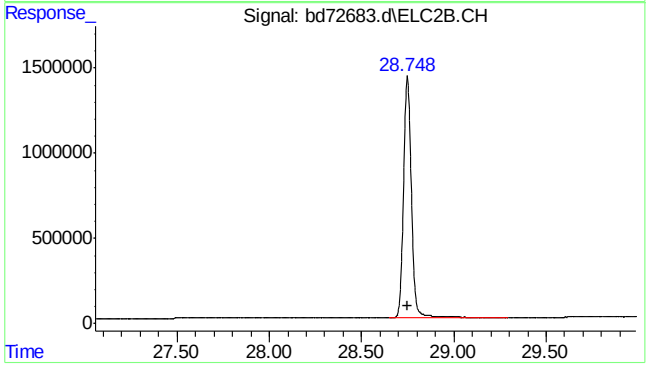
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 65671528
Conc: 97.79 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 49399372
Conc: 102.57 ppb



#33 naphthalene #2

R.T.: 28.748 min
Delta R.T.: -0.002 min
Response: 41651706
Conc: 152.95 ppb m

7.5.11

7

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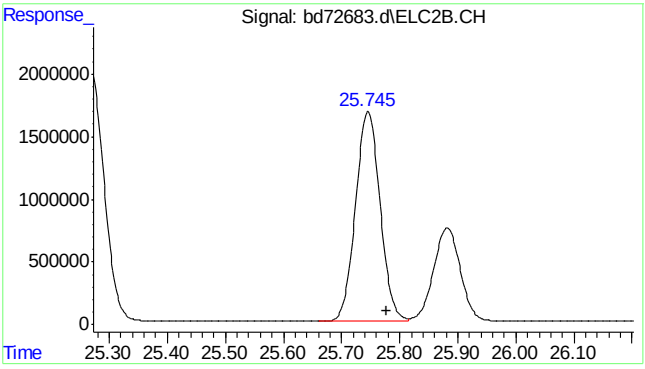


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 49381850
Conc: 102.60 ppb m

7.5.11

7

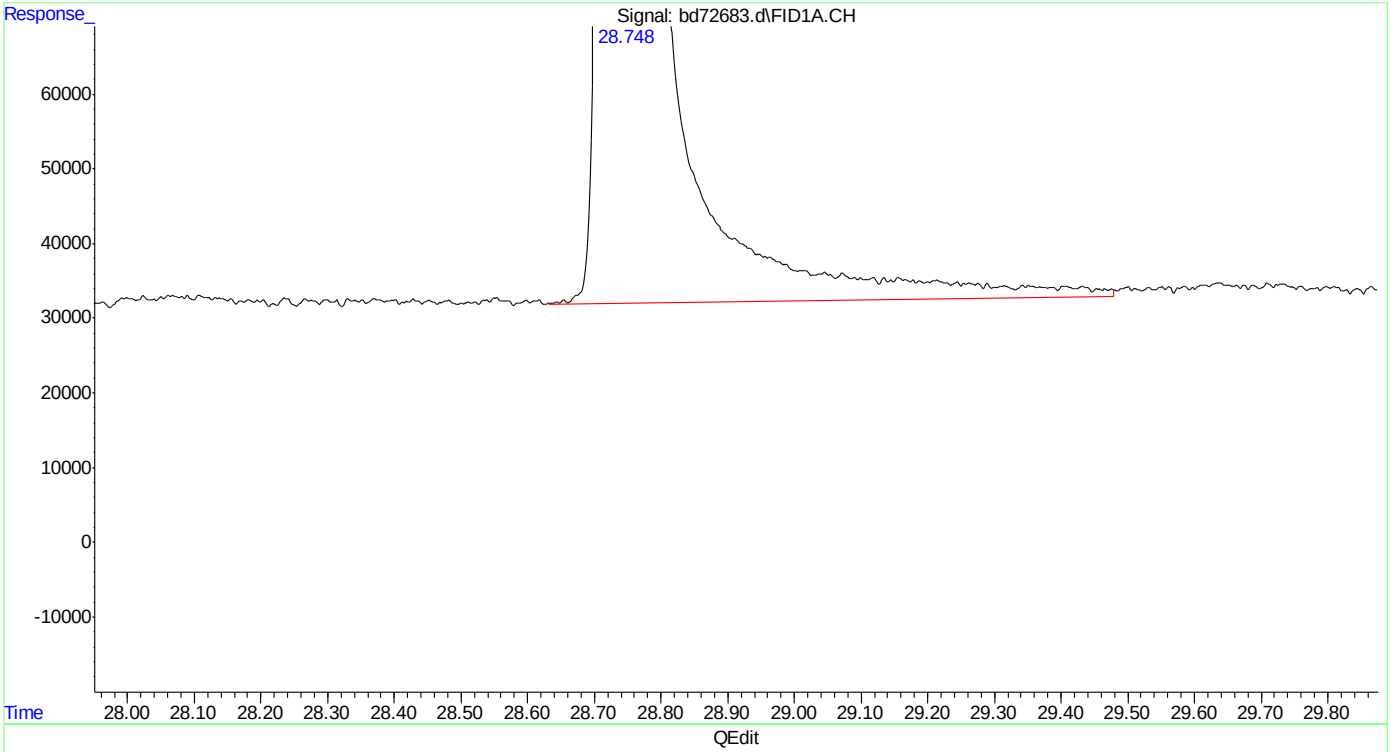
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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
28.749min 143.778 ppb
response 53884167

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:11 2016 Page: 1

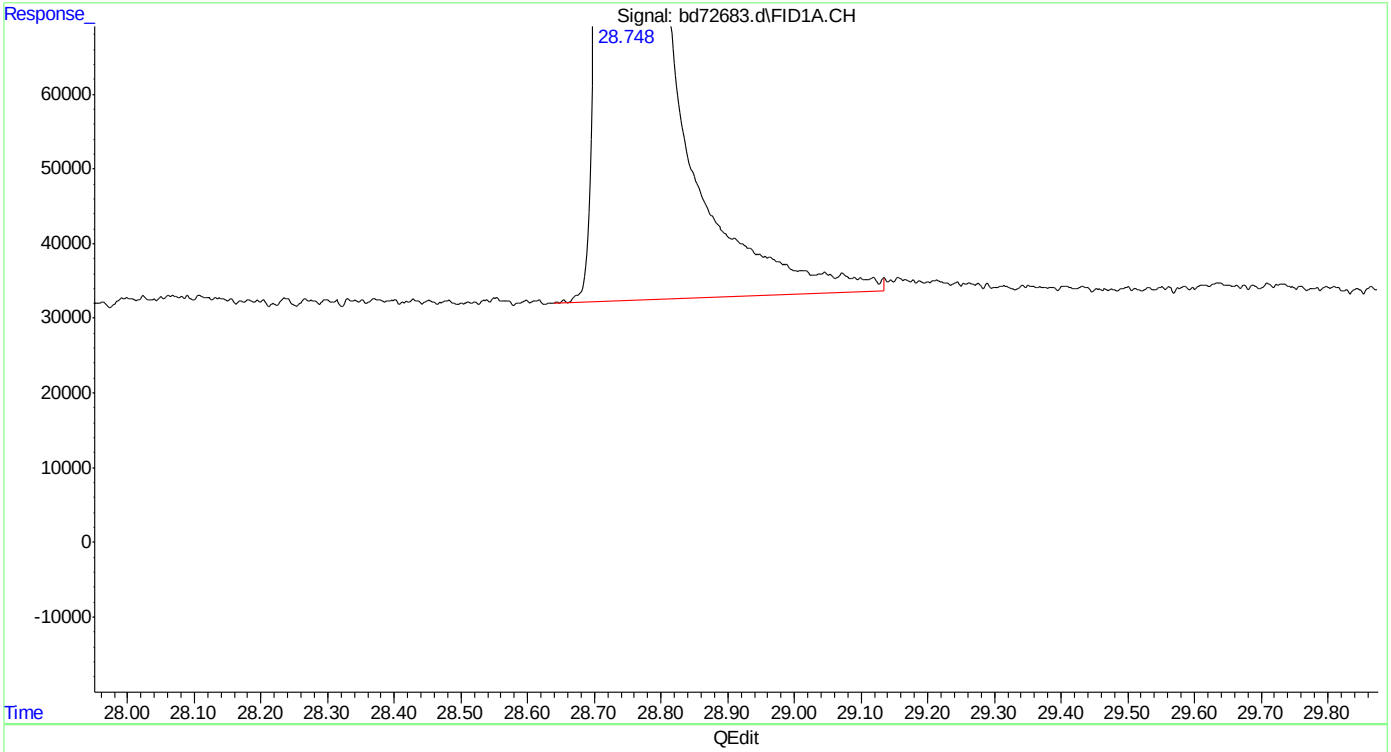
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 09:29:50
Operator  : tonyf
Sample    : ic3752-100
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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

28.748min 142.355 ppb m

response 53350849

(+) = Expected Retention Time

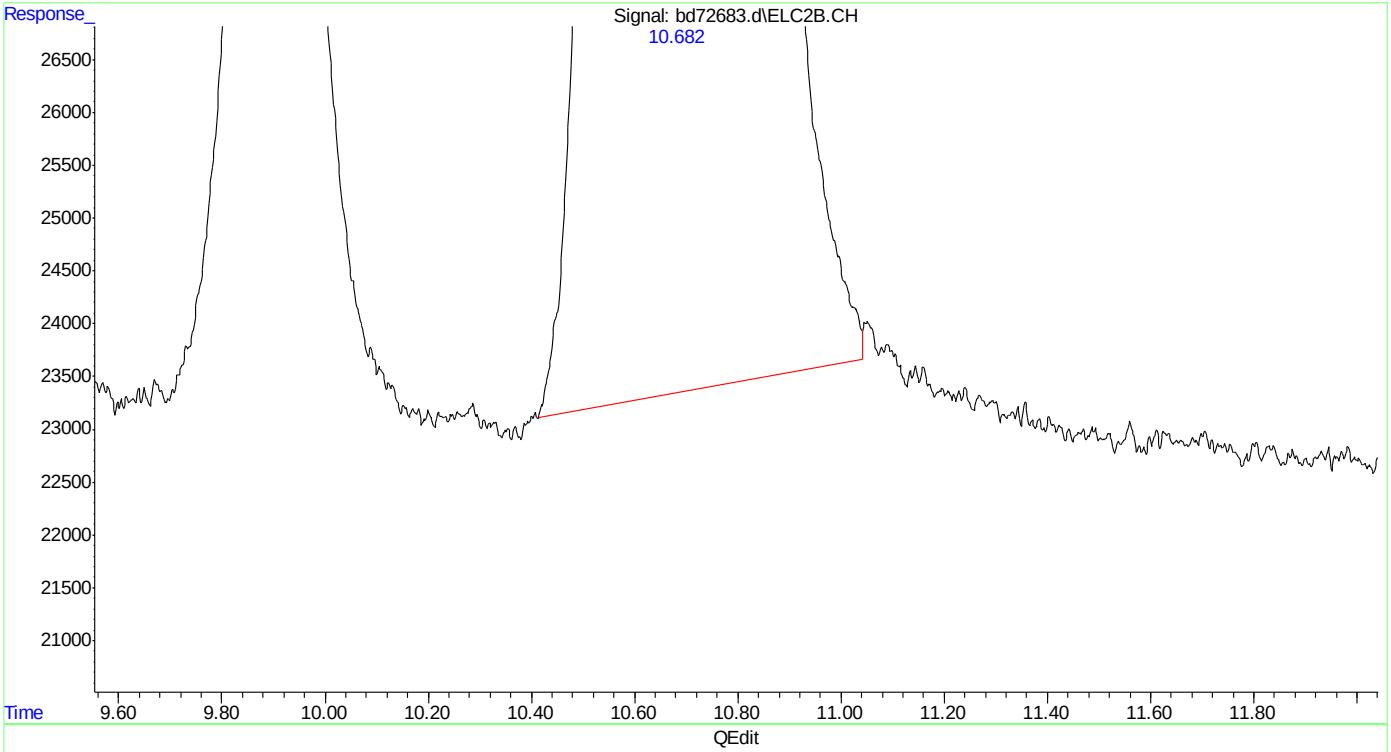
bd160219master.M Fri Feb 19 13:16:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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
10.683min 105.694 ppb
response 16414171

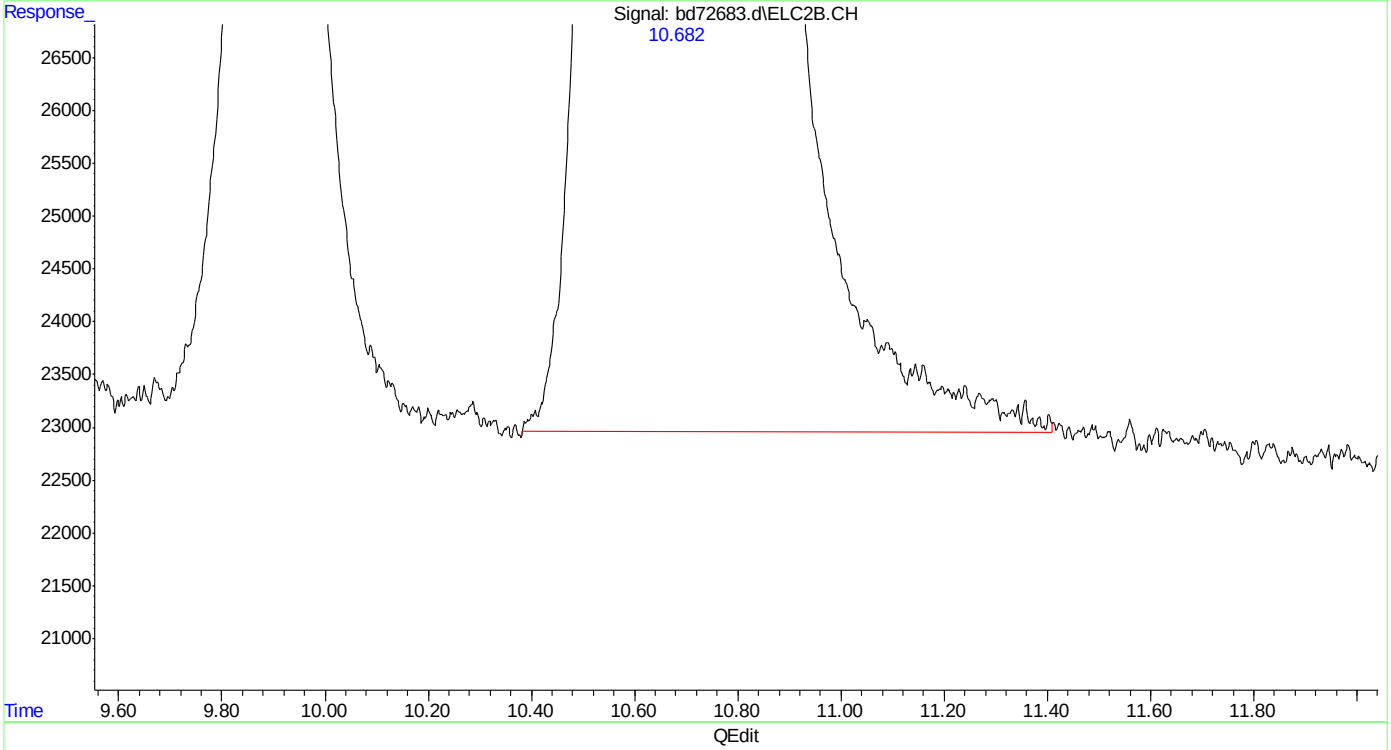
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:26 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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
10.682min 107.344 ppb m
response 16670409

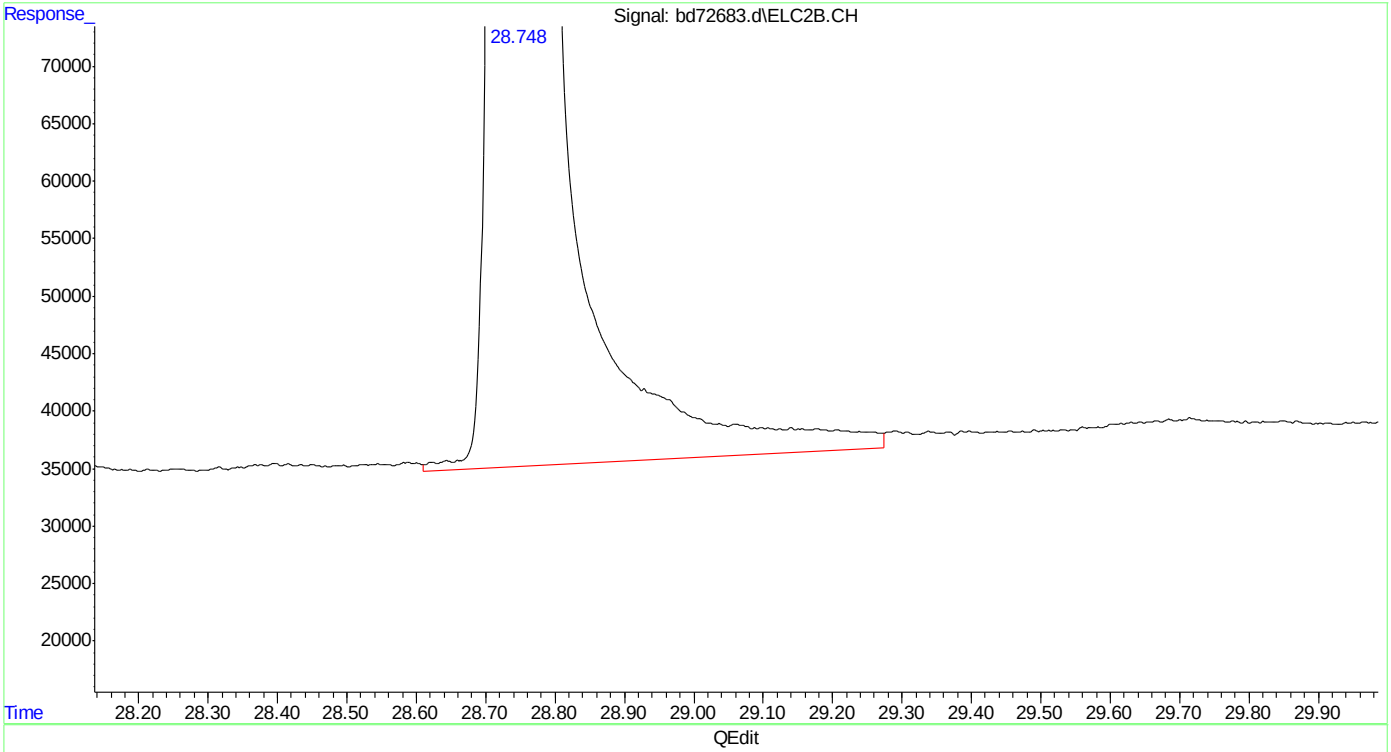
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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
28.748min 154.186 ppb
response 41988930

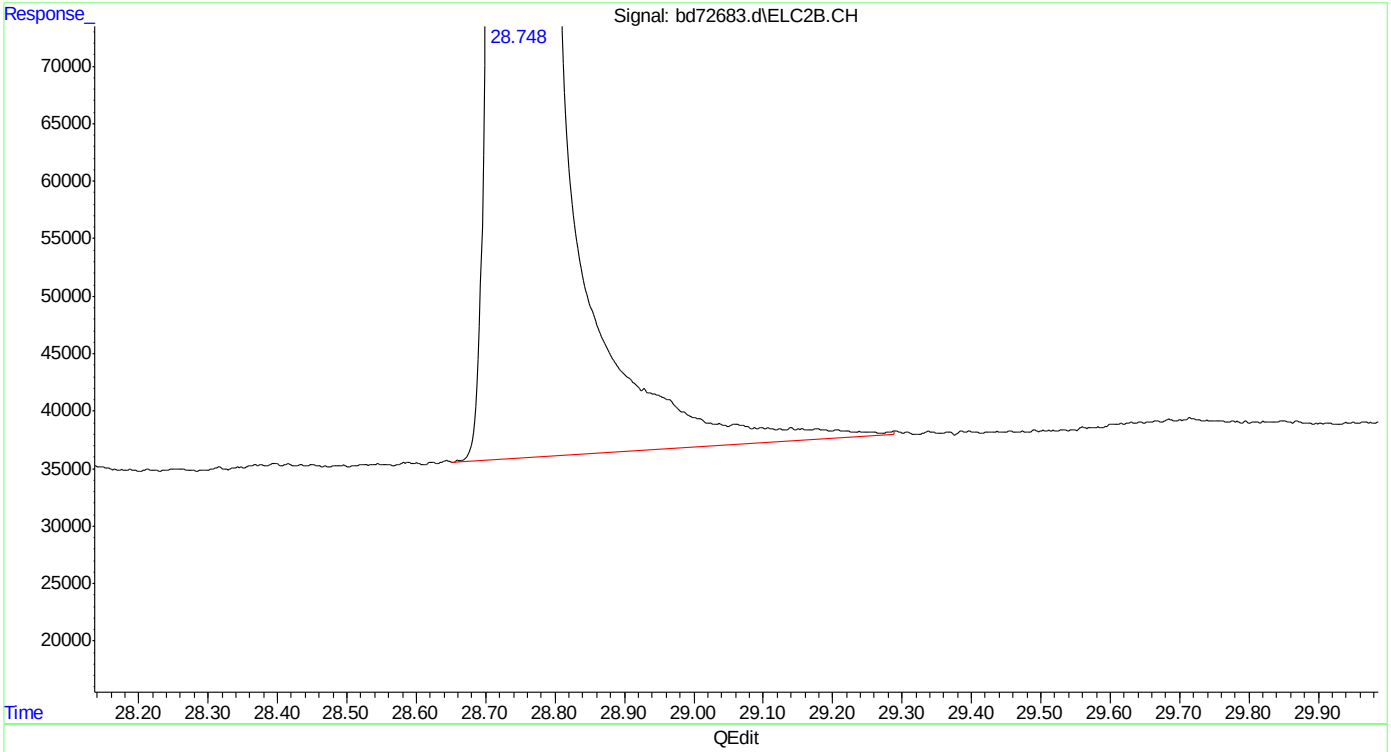
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72683.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 09:29:50
Operator : tonyf
Sample : ic3752-100
Misc : gc25978,gbd3572,,,,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: Feb 19 13:15:20 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial 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
28.748min 152.947 ppb m
response 41651706

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:47 2016

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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	16.425	34075445	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	21.237	26970091	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
25) s fluorobenzene #2	16.425	15383703	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	21.237	9070743	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	7.470	30143416	49.971	ppb	m
2) h rt7/10	9.920	34807733	50.015	ppb	m
3) mtbe	10.687	15460558	50.361	ppb	
4) h rt10/13	15.200	33383300	50.012	ppb	m
5) benzene	15.932	42982873	50.000	ppb	
8) toluene	20.221	42756685	50.000	ppb	
11) h rt20/25	22.840	38654222	50.046	ppb	m
13) ethylbenzene	23.172	42355999	50.000	ppb	
14) m,p-xylene	23.307	80812232	100.000	ppb	
15) o-xylene	24.029	43434654	50.000	ppb	
16) h decane	24.930	37965661	50.001	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	45635368	50.000	ppb	
18) 1,2,4-trimethylbenzene	25.747	44319474	50.000	ppb	
19) h butylcyclohexane	25.908	41267880	49.988	ppb	m
20) naphthalene	28.750	27290467	49.961	ppb	m
23) mtbe #2	10.688	7963229	50.116	ppb	m
24) benzene #2	15.931	24111272	50.000	ppb	
26) toluene #2	20.221	22561776	50.000	ppb	
28) ethylbenzene #2	23.171	20325119	50.000	ppb	
29) m,p-xylene #2	23.307	49291829	100.000	ppb	
30) o-xylene #2	24.028	20846761	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	25.269	31712590	50.000	ppb	
32) 1,2,4-trimethylbenzen...	25.746	23925194	50.000	ppb	
33) naphthalene #2	28.749	19084412	50.008	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	23927237	49.996	ppb	m

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

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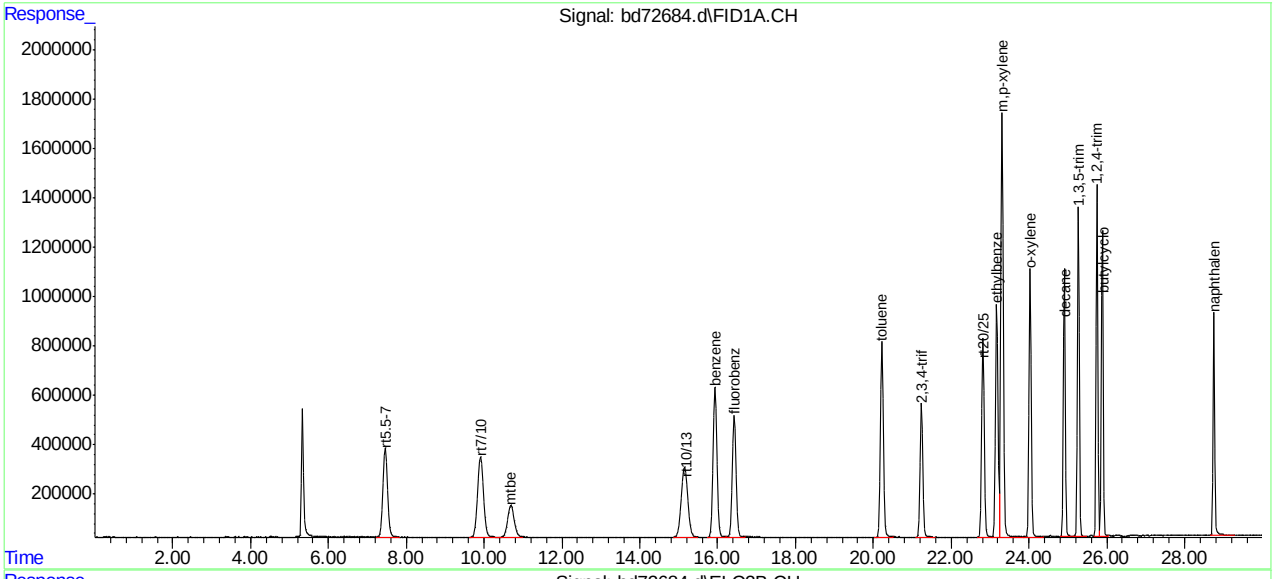
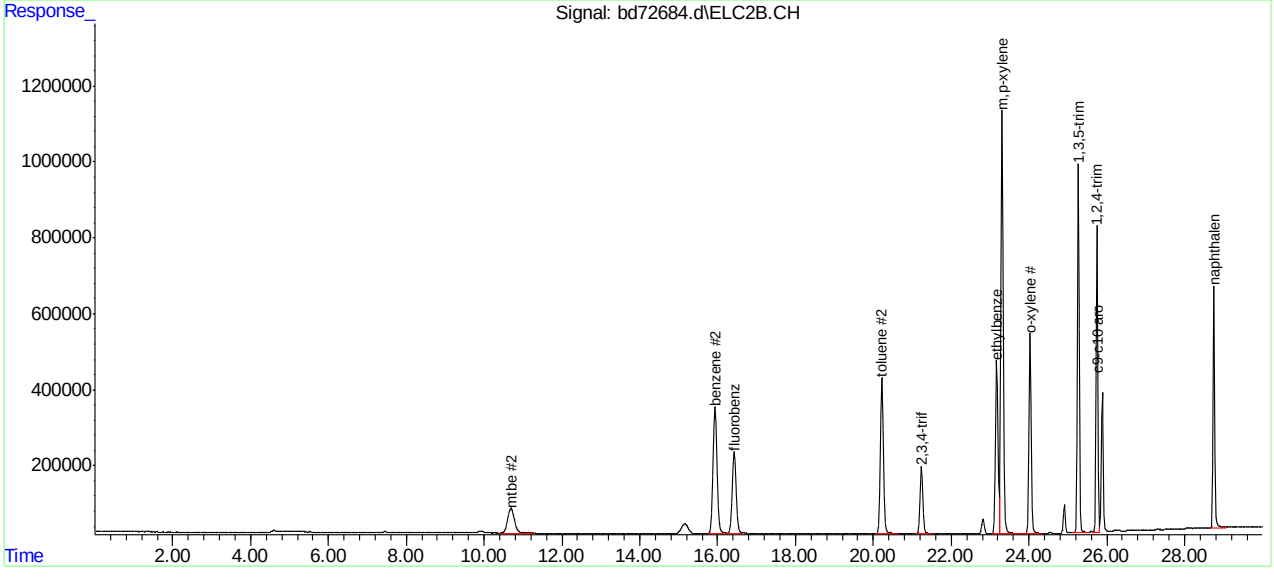
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3572-50 (Sig #1); icc3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

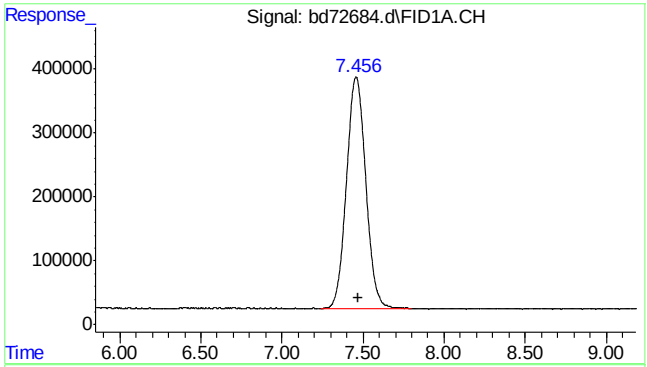
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



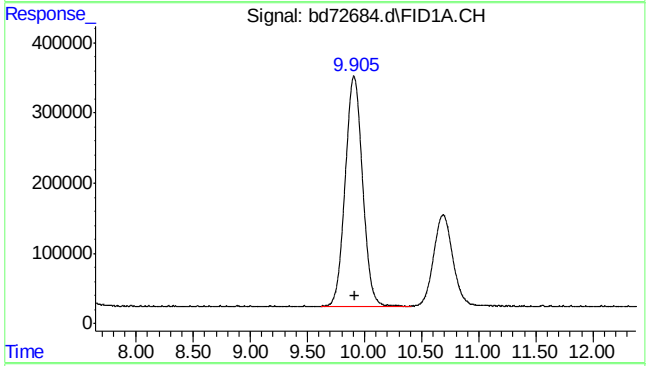


SGS ACCUTEST MC45799



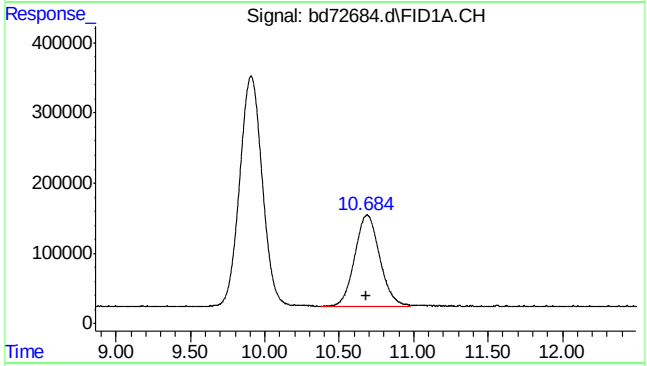
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 30143416
Conc: 49.97 ppb m



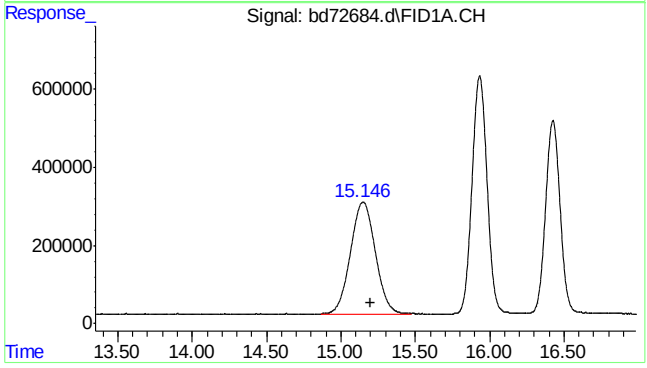
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 34807733
Conc: 50.01 ppb m



#3 mtbe

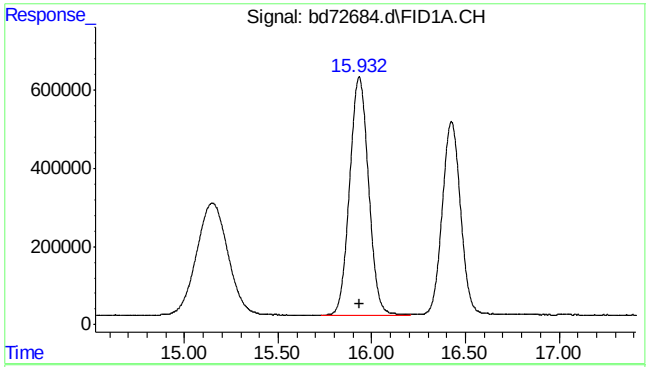
R.T.: 10.687 min
Delta R.T.: 0.003 min
Response: 15460558
Conc: 50.36 ppb



#4 rt10/13

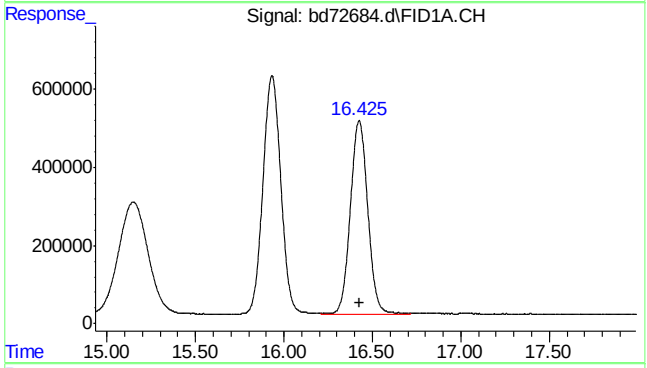
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 33383300
Conc: 50.01 ppb m

SGS ACCUTEST MC45799



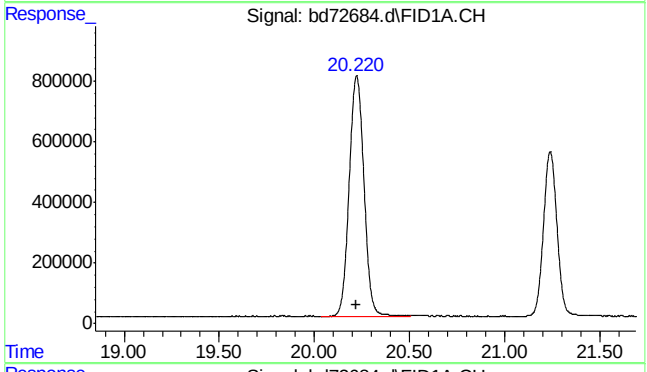
#5 benzene

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 42982873
Conc: 50.00 ppb



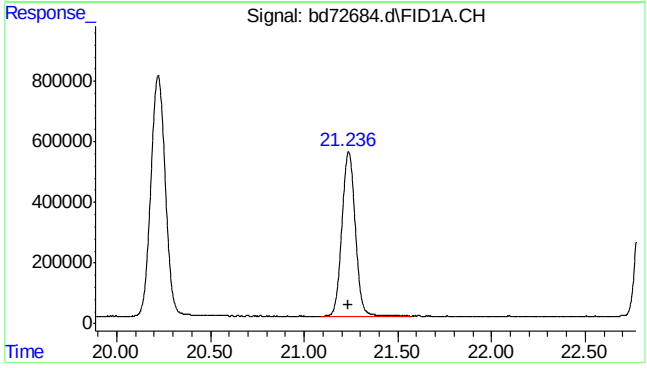
#6 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 34075445
Conc: 50.00 ppb



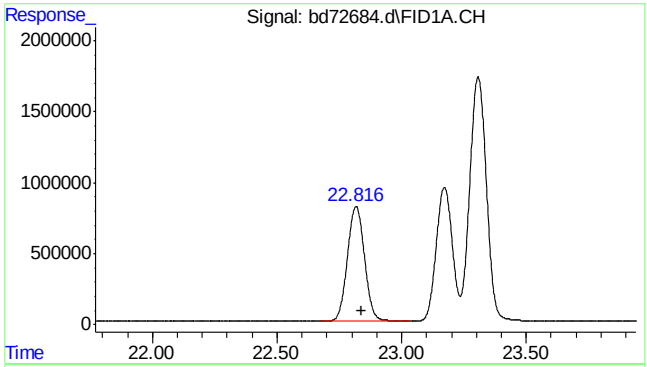
#8 toluene

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 42756685
Conc: 50.00 ppb



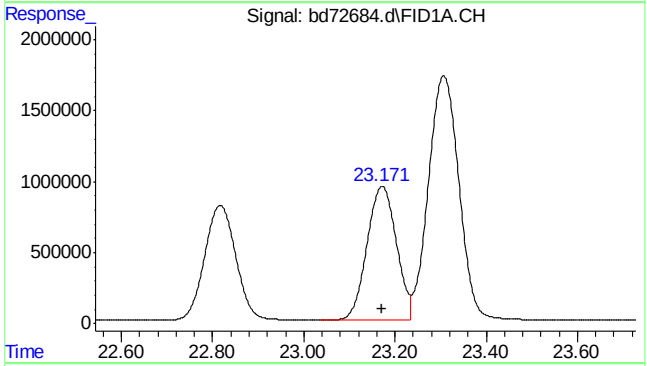
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26970091
Conc: 50.00 ppb



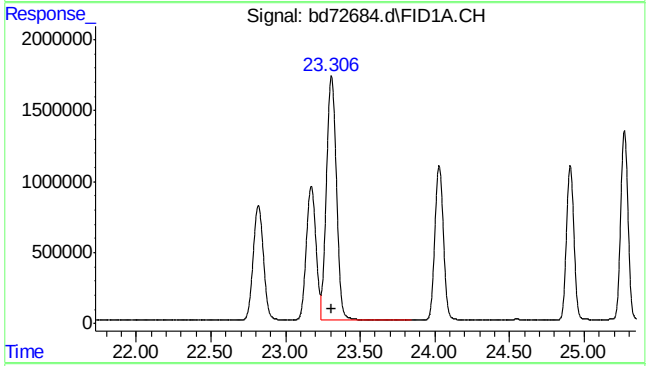
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38654222
Conc: 50.05 ppb m



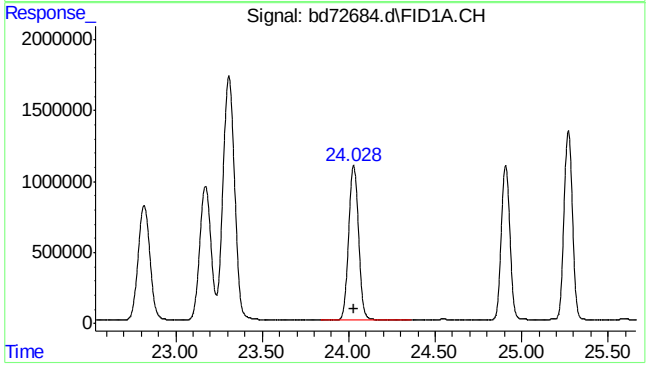
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 42355999
Conc: 50.00 ppb



#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 80812232
Conc: 100.00 ppb



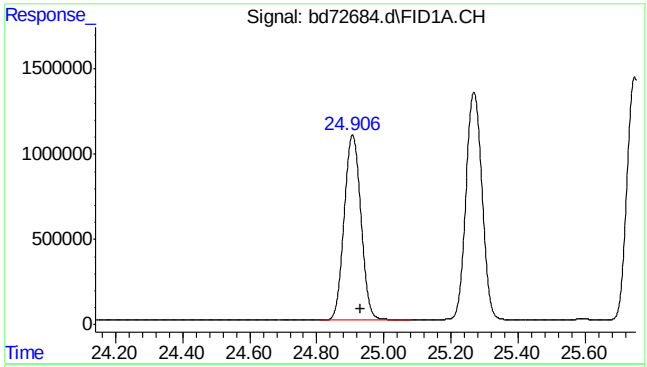
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 43434654
Conc: 50.00 ppb

7.5.12

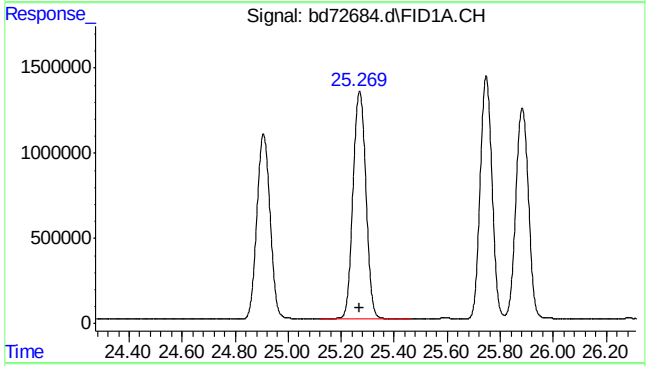
7

SGS ACCUTEST MC45799



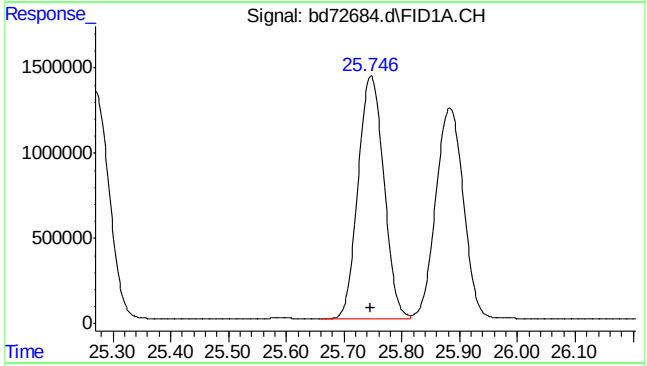
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37965661
Conc: 50.00 ppb m



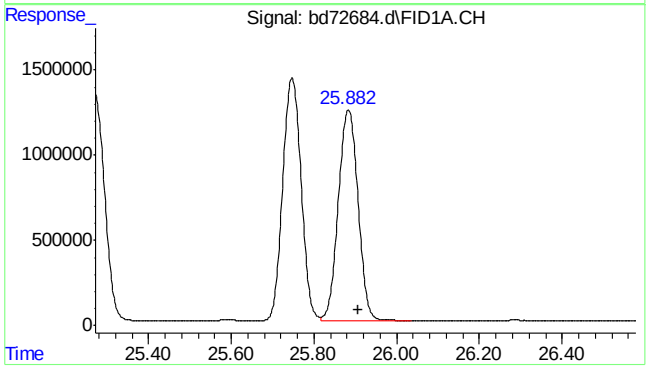
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 45635368
Conc: 50.00 ppb



#18 1,2,4-trimethylbenzene

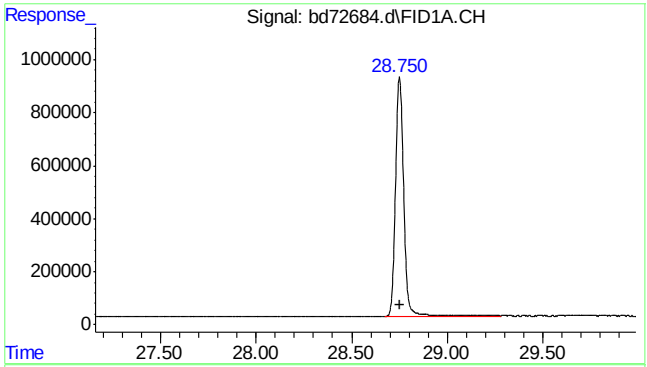
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 44319474
Conc: 50.00 ppb



#19 butylcyclohexane

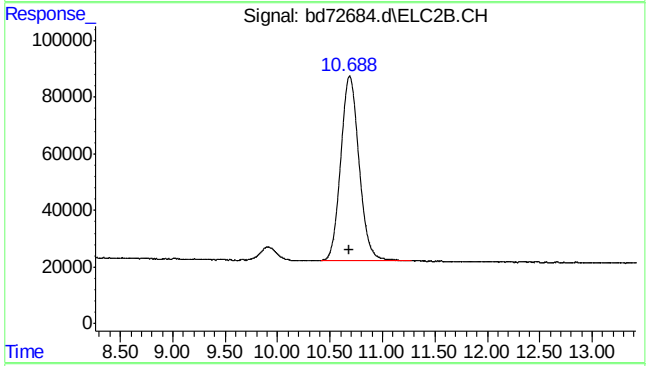
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41267880
Conc: 49.99 ppb m

SGS ACCUTEST MC45799



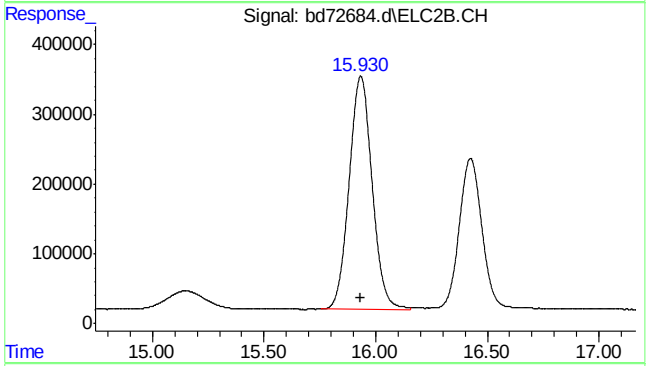
#20 naphthalene

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 27290467
Conc: 49.96 ppb m



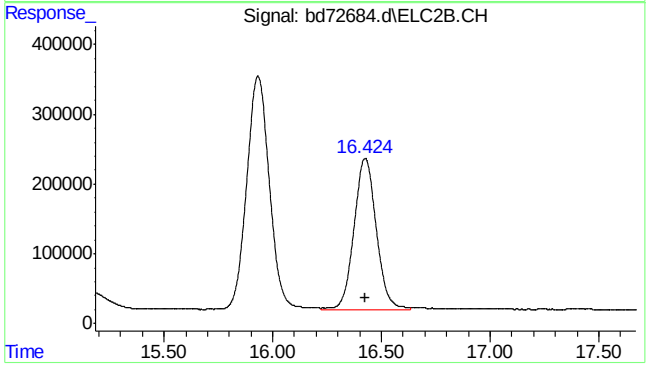
#23 mtbe #2

R.T.: 10.688 min
Delta R.T.: 0.000 min
Response: 7963229
Conc: 50.12 ppb m



#24 benzene #2

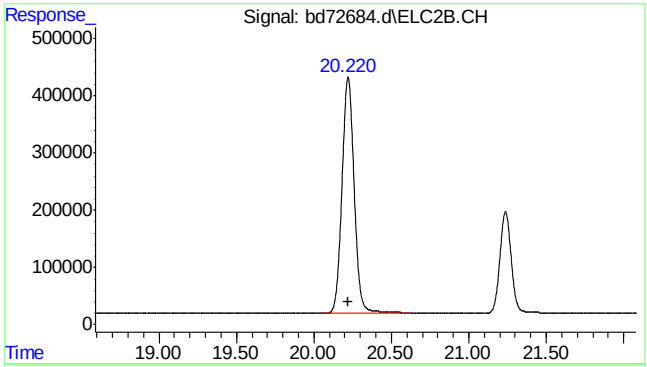
R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 24111272
Conc: 50.00 ppb



#25 fluorobenzene #2

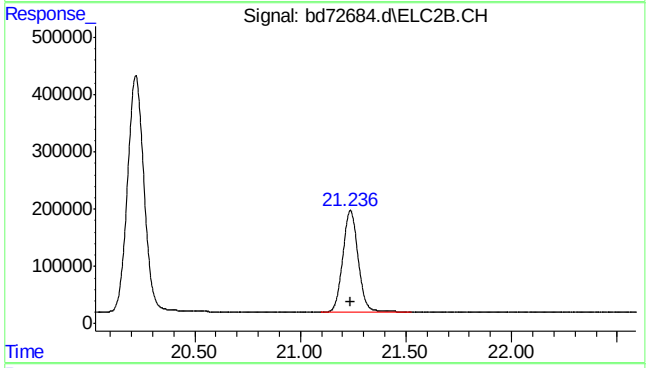
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15383703
Conc: 50.00 ppb

SGS ACCUTEST MC45799



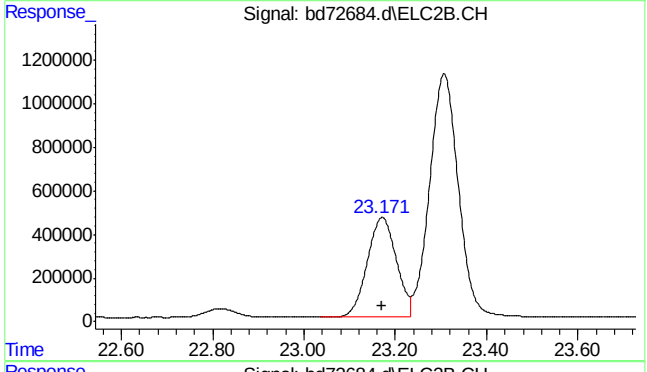
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 22561776
Conc: 50.00 ppb



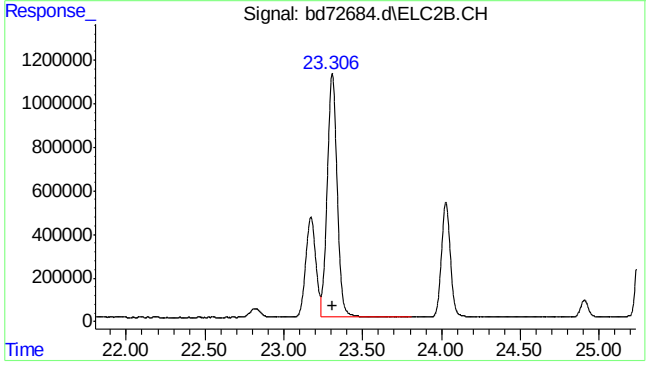
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 9070743
Conc: 50.00 ppb



#28 ethylbenzene #2

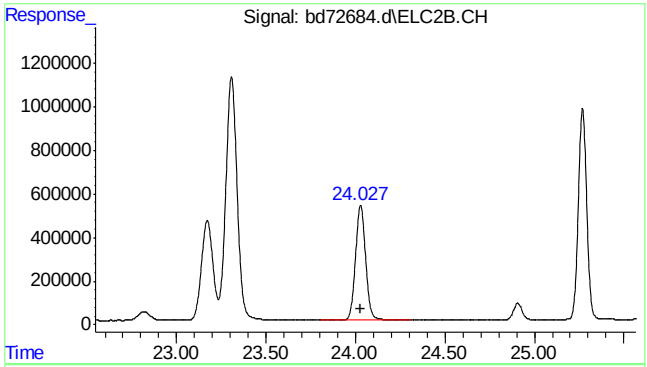
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 20325119
Conc: 50.00 ppb



#29 m,p-xylene #2

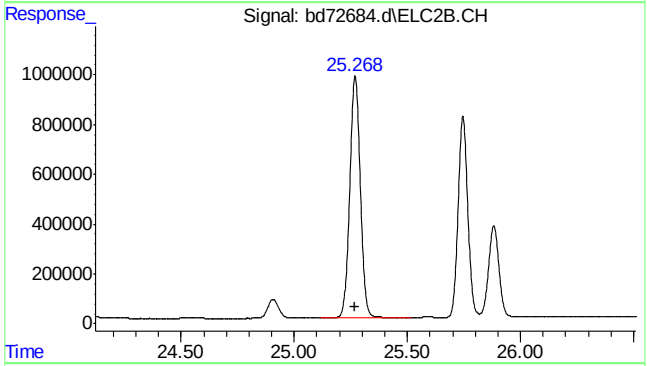
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 49291829
Conc: 100.00 ppb

SGS ACCUTEST MC45799



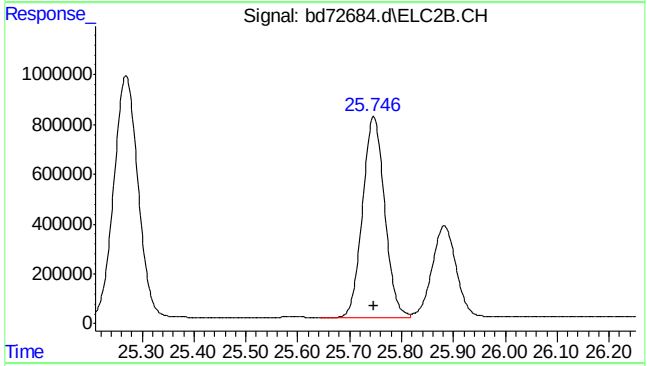
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 20846761
Conc: 50.00 ppb



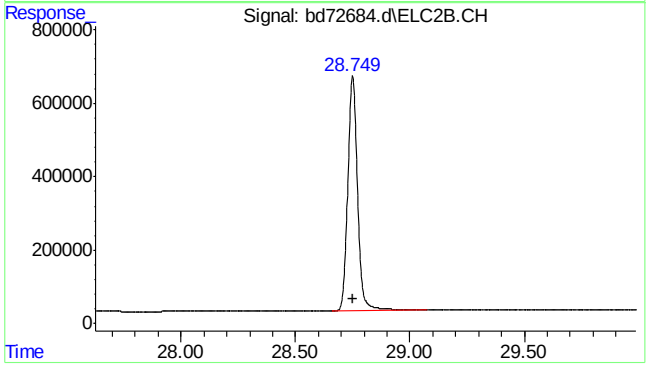
#31 1,3,5-trimethylbenzene #2

R.T.: 25.269 min
Delta R.T.: 0.000 min
Response: 31712590
Conc: 50.00 ppb



#32 1,2,4-trimethylbenzene #2

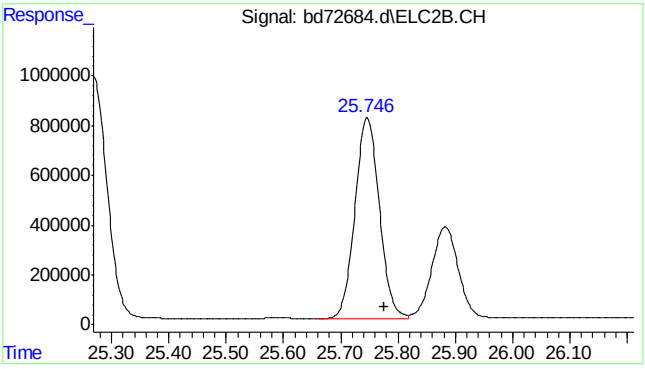
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 23925194
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 28.749 min
Delta R.T.: 0.000 min
Response: 19084412
Conc: 50.01 ppb m

SGS ACCUTEST MC45799



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23927237
Conc: 50.00 ppb m

7.5.12

7

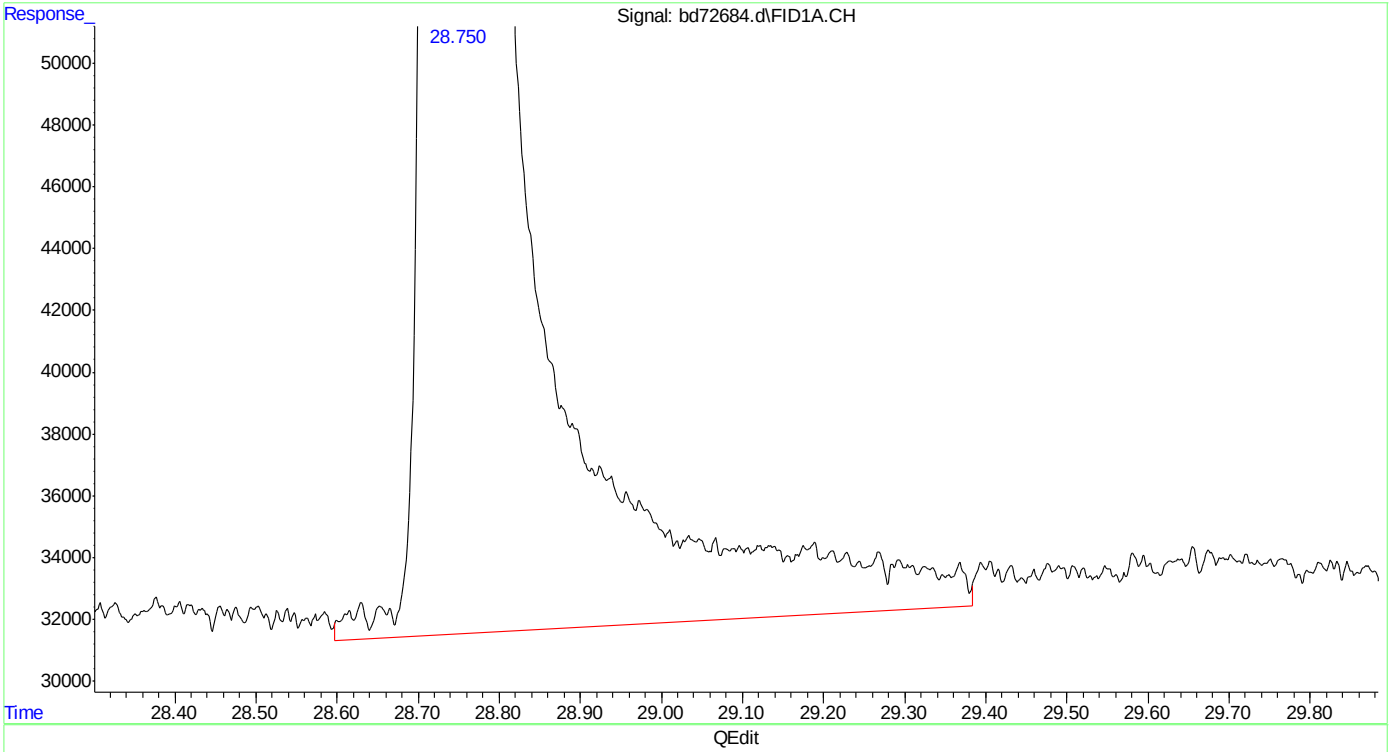
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
28.750min 50.560 ppb
response 27617814

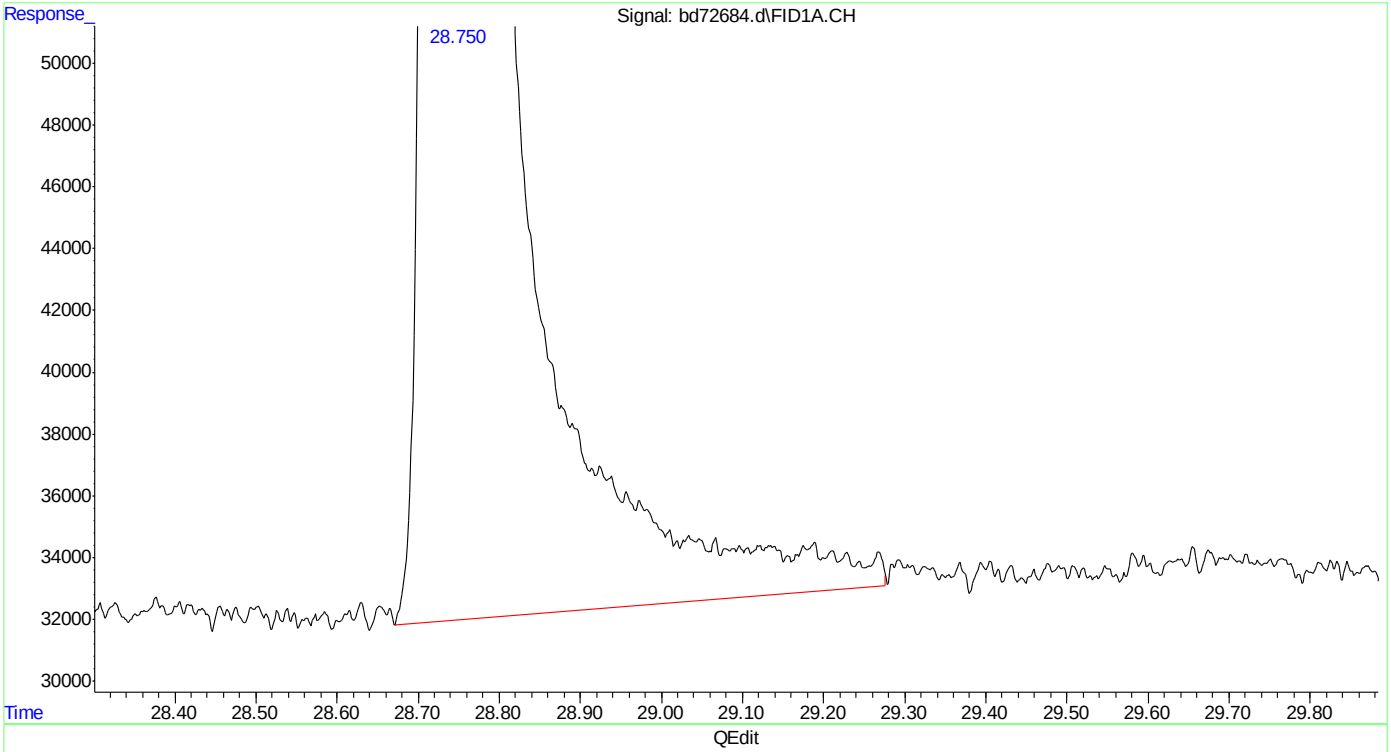
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
28.750min 49.961 ppb m
response 27290467

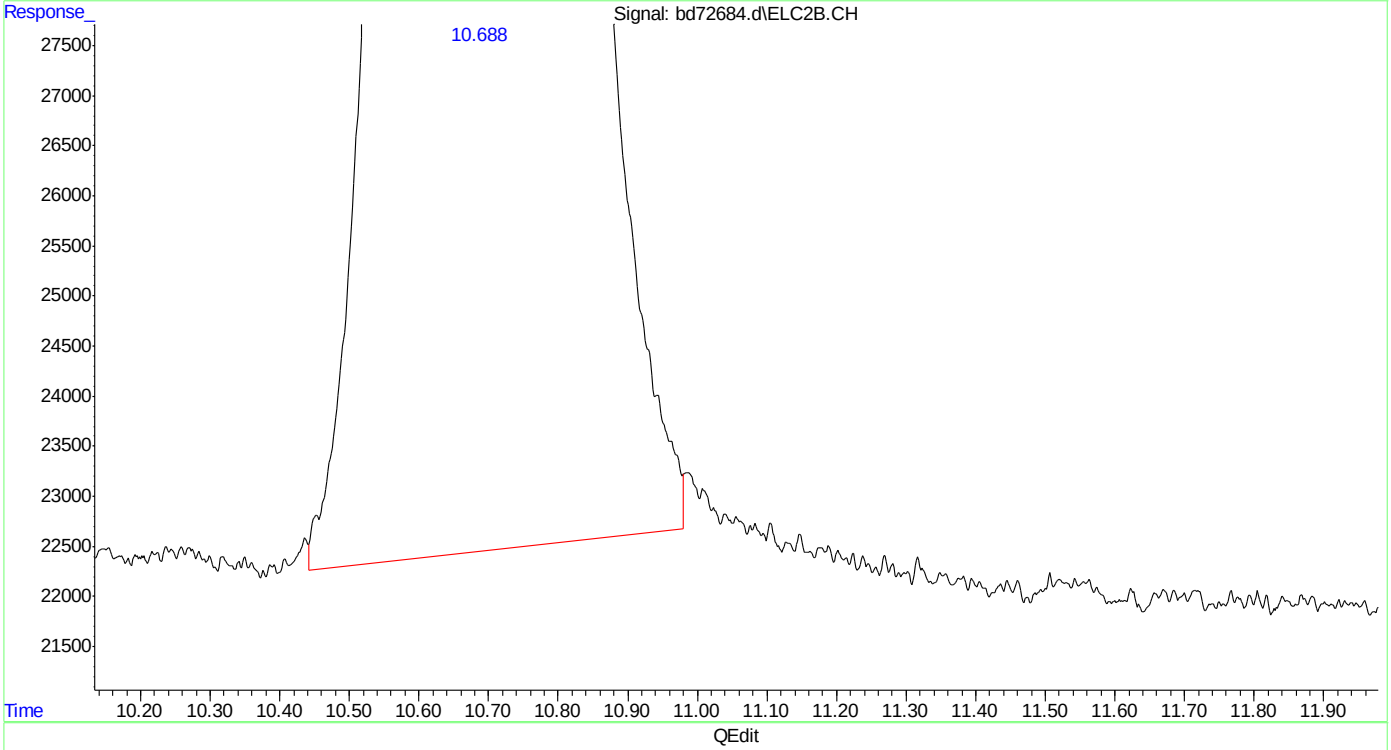
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
10.688min 49.028 ppb
response 7790275

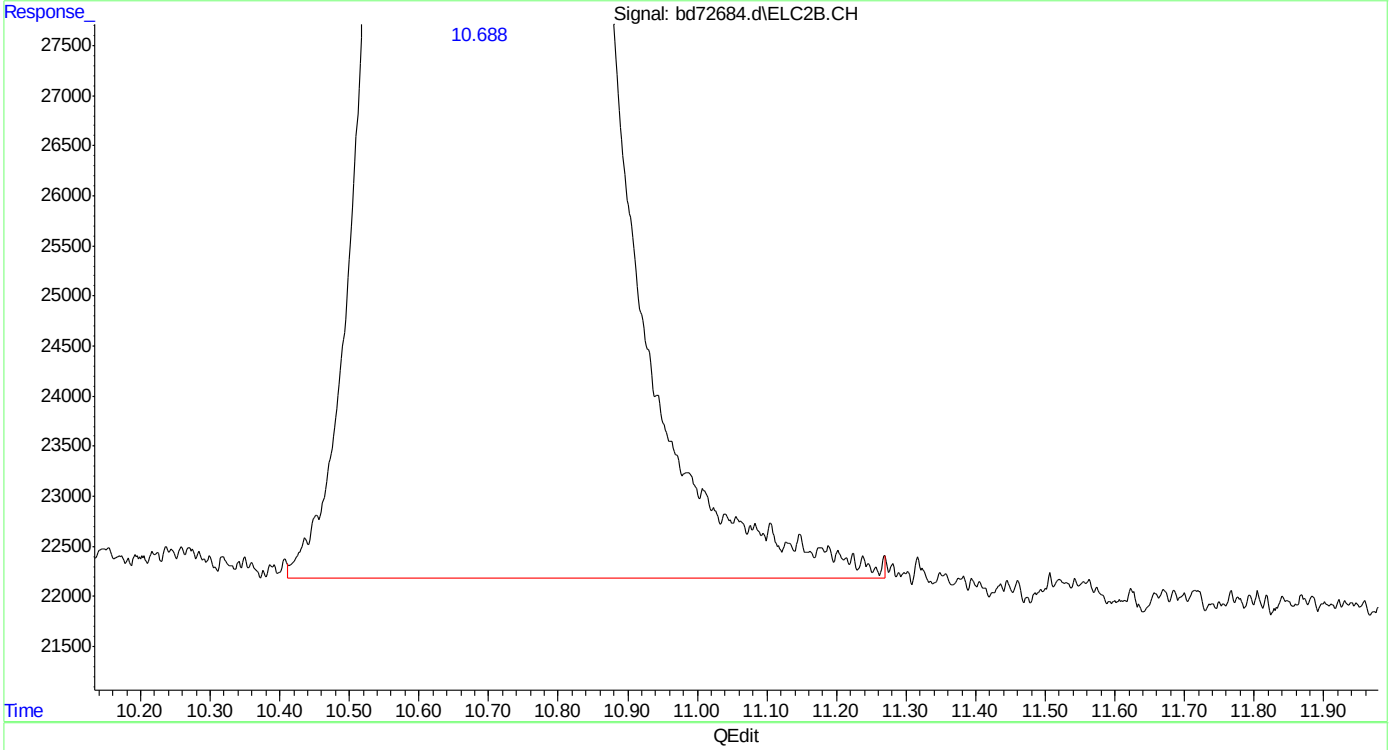
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
10.688min 50.116 ppb m
response 7963229

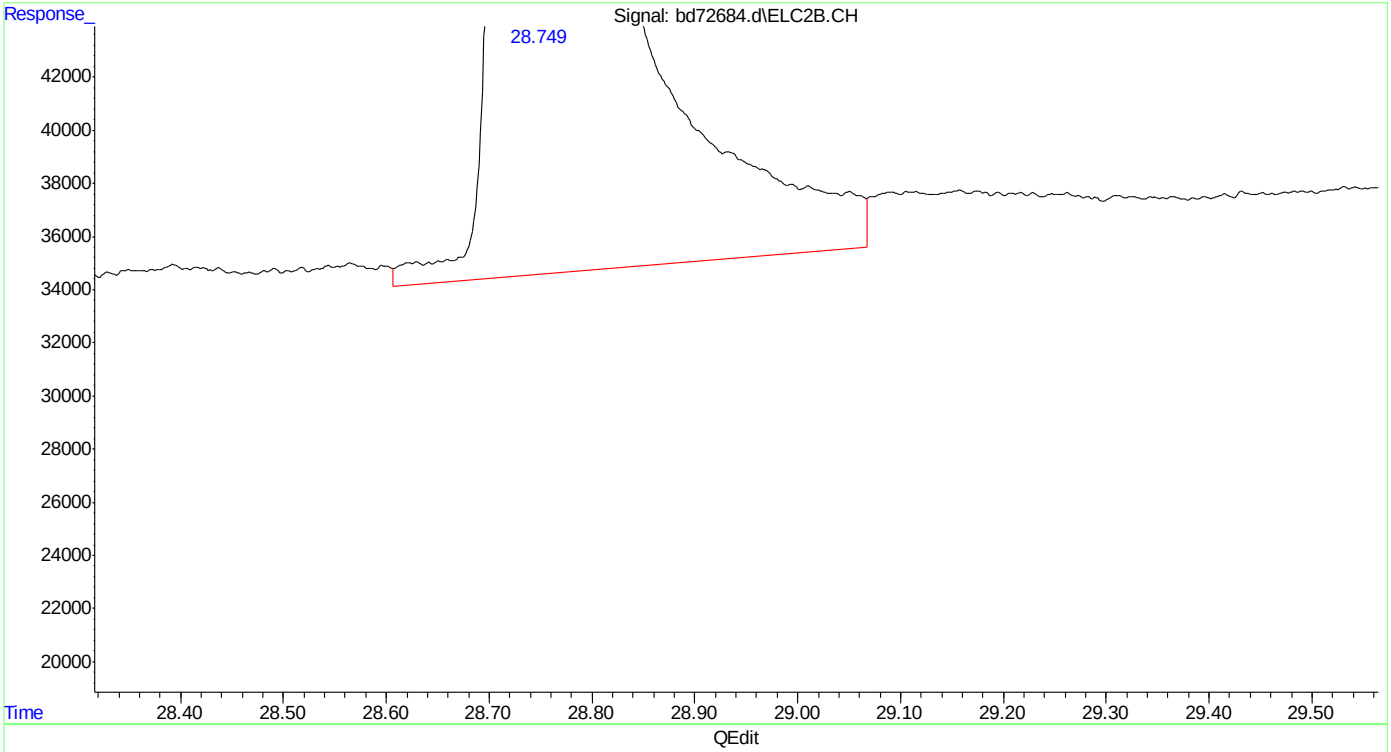
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 10:43:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
28.750min 50.594 ppb
response 19307823

(+) = Expected Retention Time

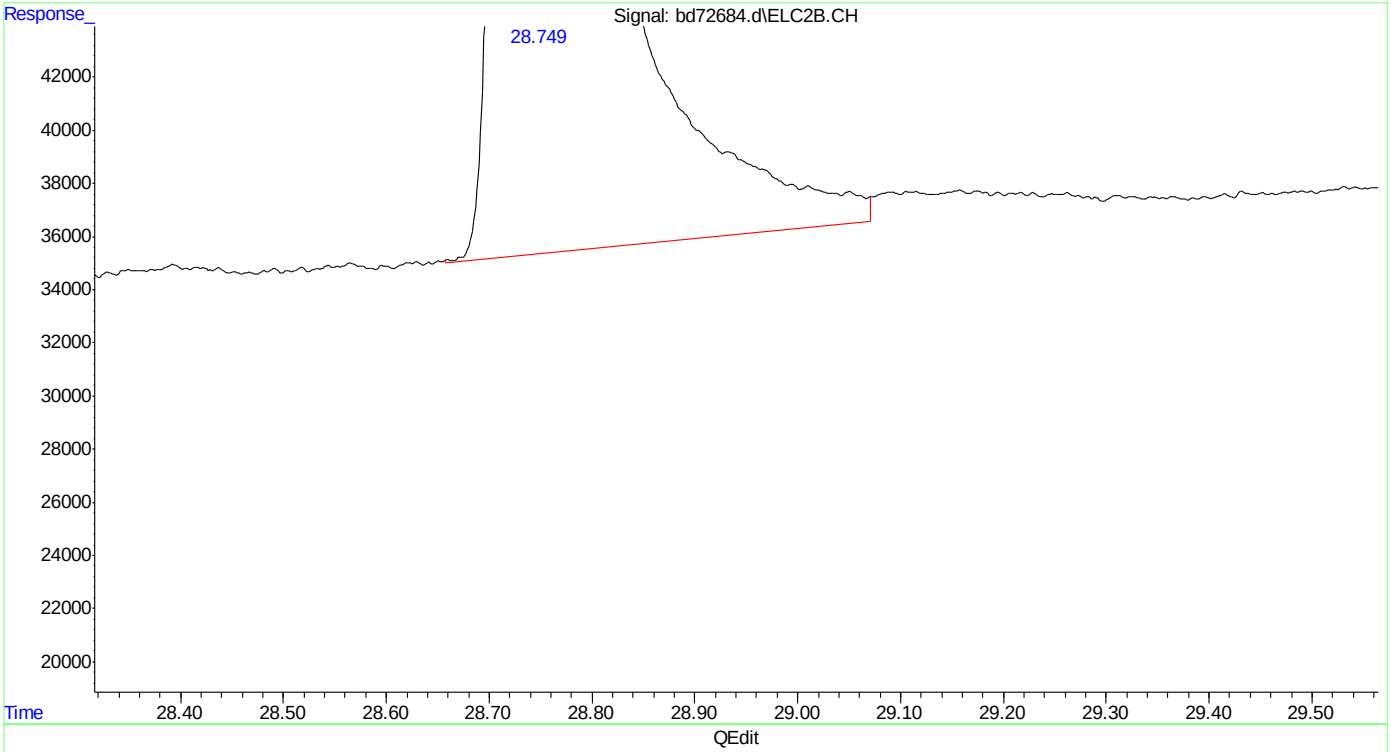
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72684.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:07:12
Operator : tonyf
Sample : icc3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 10:42:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial 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
28.749min 50.008 ppb m
response 19084412

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 10:44:17 2016

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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	16.424	7790076	10.604	ppb	m
Spiked Amount 50.000		Recovery = 21.21%			
9) s 2,3,4-trifluorotoluene	21.237	5892388	10.383	ppb	m
Spiked Amount 50.000		Recovery = 20.77%			
25) s fluorobenzene #2	16.424	3885600	10.970	ppb	m
Spiked Amount 50.000		Recovery = 21.94%			
27) s 2,3,4-trifluorotoluen...	21.237	2170174	10.531	ppb	m
Spiked Amount 50.000		Recovery = 21.06%			
Target Compounds					
1) h rt5.5-7	7.470	5478380	9.673	ppb	m
2) h rt7/10	9.920	6151519	9.578	ppb	m
3) mtbe	10.683	2869302	9.915	ppb	m
4) h rt10/13	15.200	7560791	10.267	ppb	m
5) benzene	15.934	7526601	9.594	ppb	m
8) toluene	20.220	7478514	9.601	ppb	m
11) h rt20/25	22.840	8045975	9.978	ppb	m
13) ethylbenzene	23.172	7648937	9.735	ppb	
14) m,p-xylene	23.307	16659616	20.368	ppb	
15) o-xylene	24.029	8134654	9.865	ppb	
16) h decane	24.930	8489226	9.899	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	9966676	10.402	ppb	
18) 1,2,4-trimethylbenzene	25.747	8741165	10.031	ppb	
19) h butylcyclohexane	25.908	9260257	10.094	ppb	m
20) naphthalene	28.751	4112144	9.611	ppb	
23) mtbe #2	10.696	1570260	10.071	ppb	m
24) benzene #2	15.932	4569131	9.758	ppb	
26) toluene #2	20.221	4236945	9.801	ppb	m
28) ethylbenzene #2	23.172	3840788	9.811	ppb	
29) m,p-xylene #2	23.307	9363713	19.635	ppb	
30) o-xylene #2	24.028	4014129	9.824	ppb	
31) t 1,3,5-trimethylbenzen...	25.268	6605929	10.076	ppb	m
32) 1,2,4-trimethylbenzen...	25.746	4478298	9.727	ppb	m
33) naphthalene #2	28.750	2921622	9.536	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	4489691	9.785	ppb	m

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

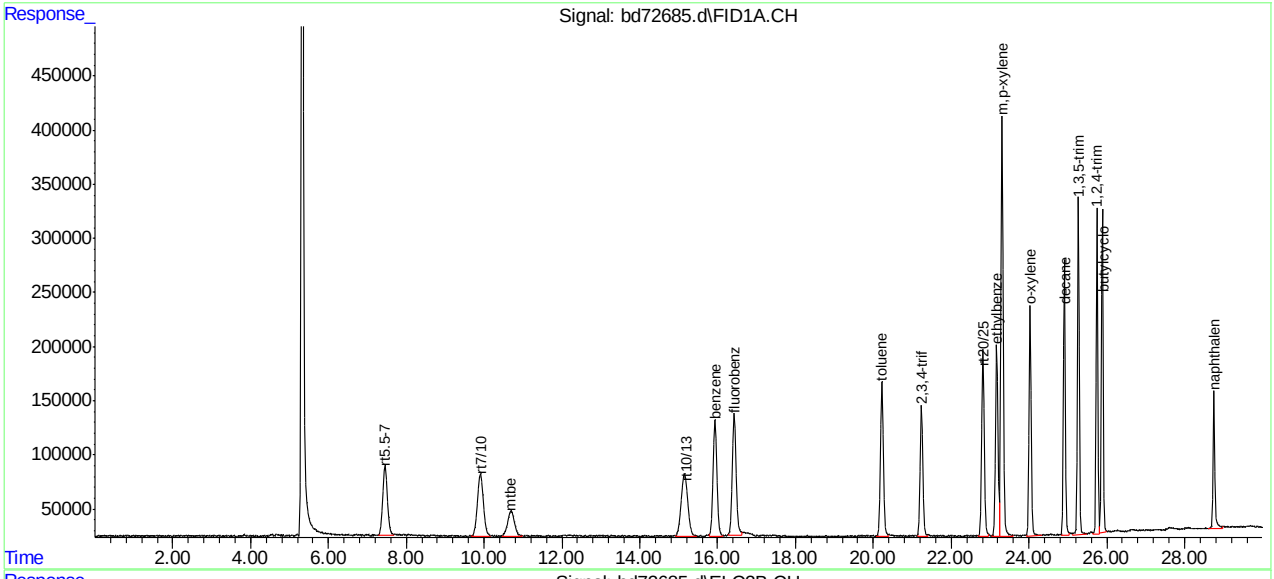
SGS ACCUTEST MC45799

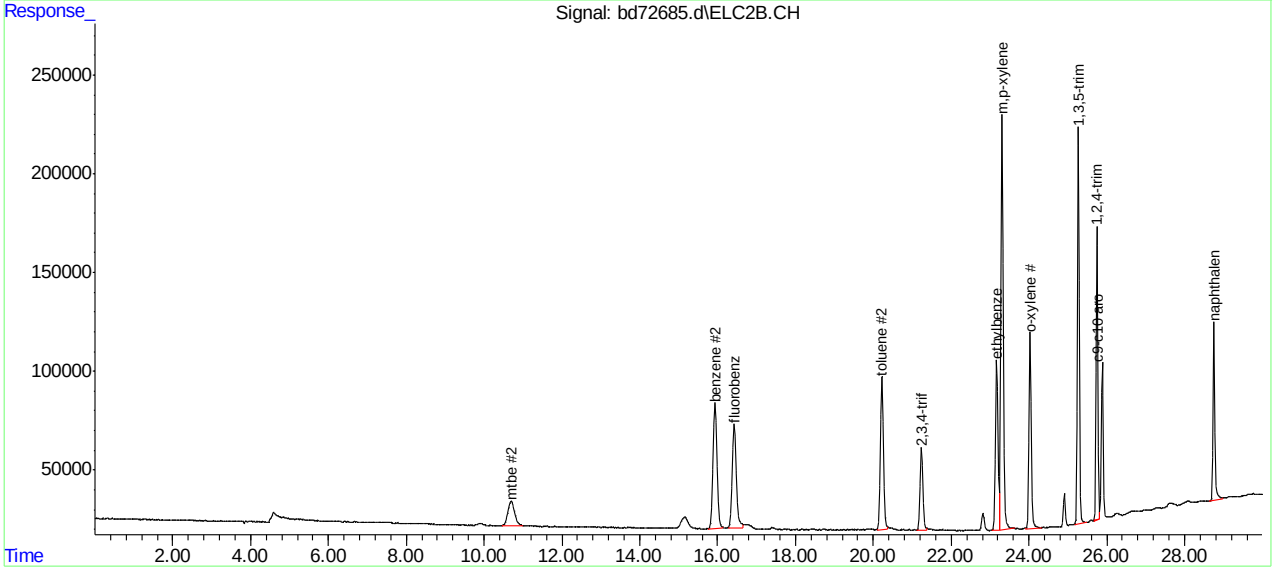
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3572-10 (Sig #1); ic3752-10 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

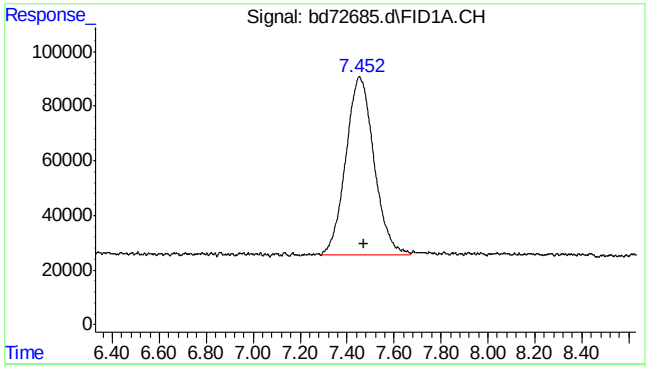
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



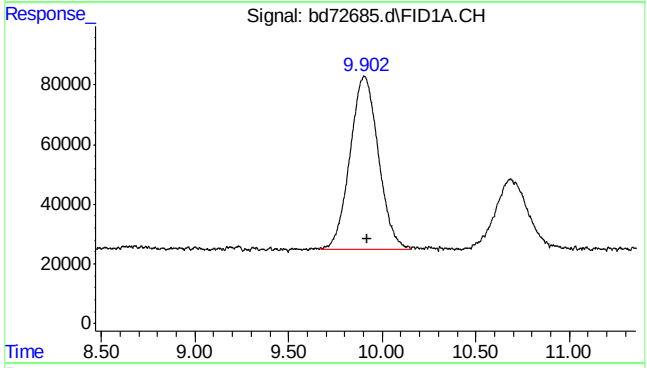


SGS ACCUTEST MC45799



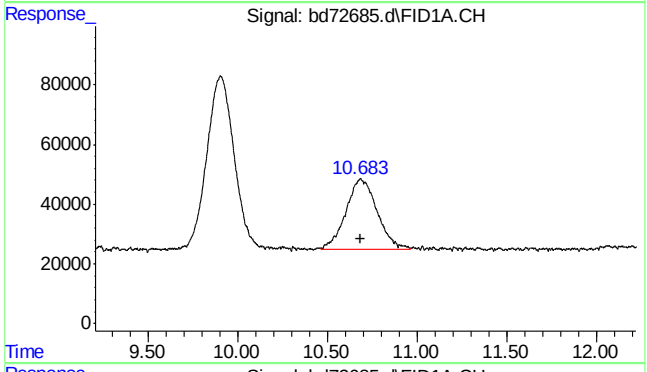
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 5478380
Conc: 9.67 ppb m



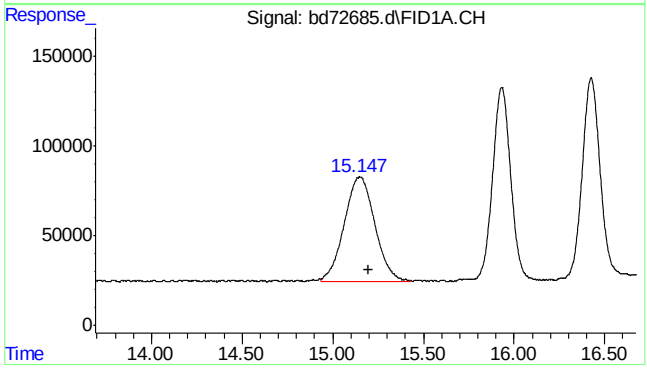
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 6151519
Conc: 9.58 ppb m



#3 mtbe

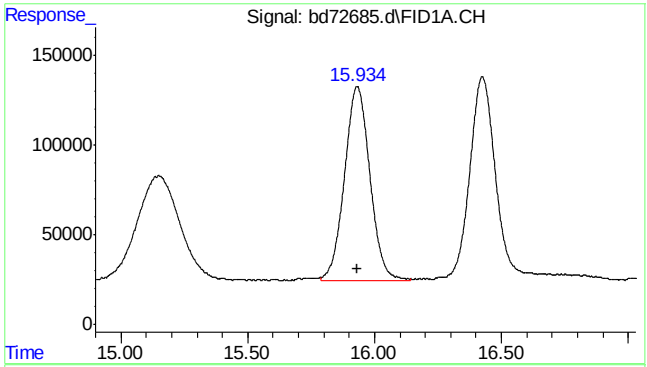
R.T.: 10.683 min
Delta R.T.: 0.000 min
Response: 2869302
Conc: 9.92 ppb m



#4 rt10/13

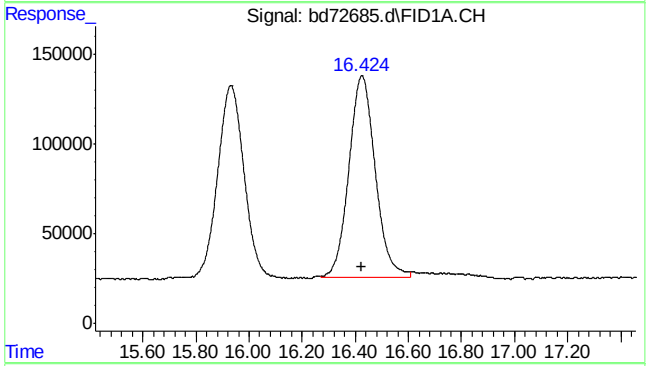
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 7560791
Conc: 10.27 ppb m

SGS ACCUTEST MC45799



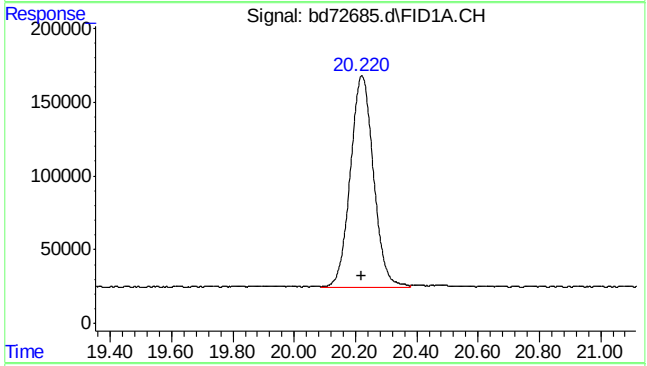
#5 benzene

R.T.: 15.934 min
Delta R.T.: 0.001 min
Response: 7526601
Conc: 9.59 ppb m



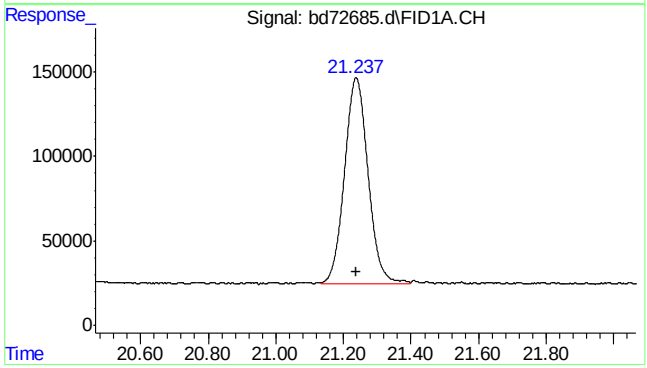
#6 fluorobenzene

R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 7790076
Conc: 10.60 ppb m



#8 toluene

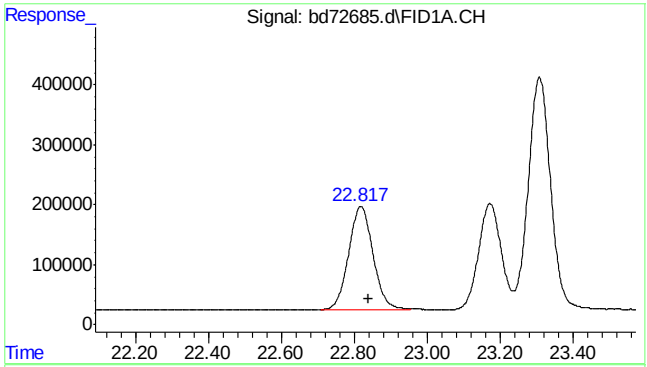
R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 7478514
Conc: 9.60 ppb m



#9 2,3,4-trifluorotoluene

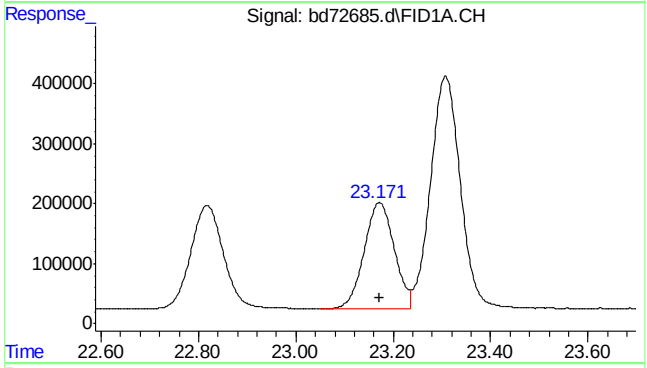
R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 5892388
Conc: 10.38 ppb m

SGS ACCUTEST MC45799



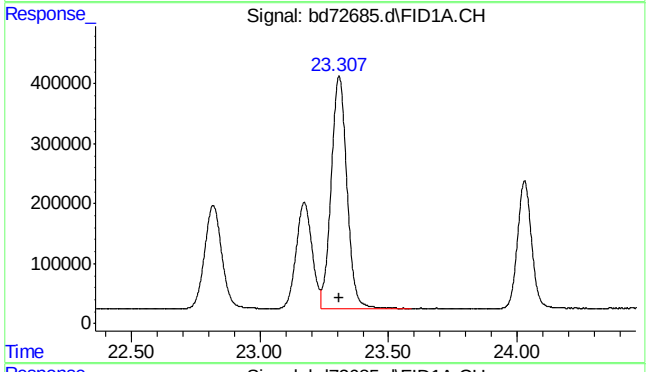
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8045975
Conc: 9.98 ppb m



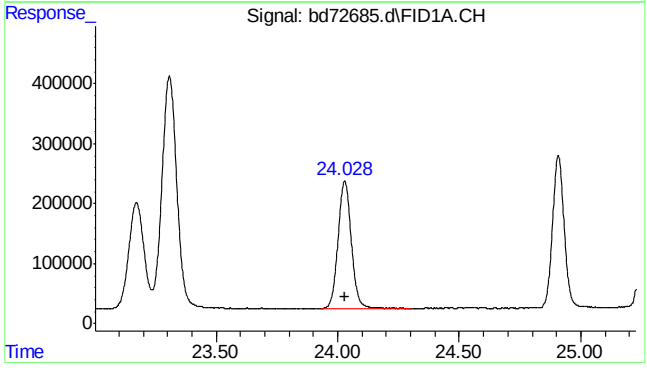
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 7648937
Conc: 9.73 ppb



#14 m,p-xylene

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 16659616
Conc: 20.37 ppb



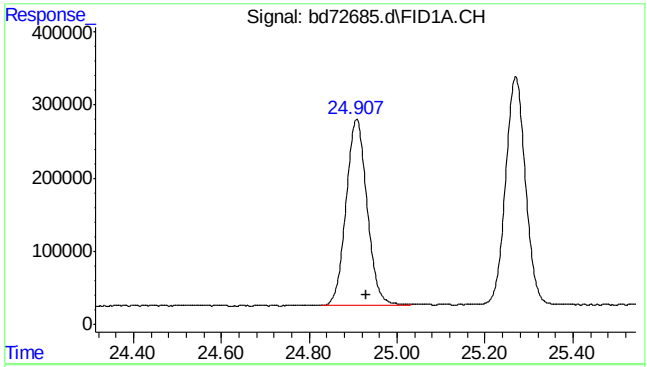
#15 o-xylene

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 8134654
Conc: 9.86 ppb

7.5.13

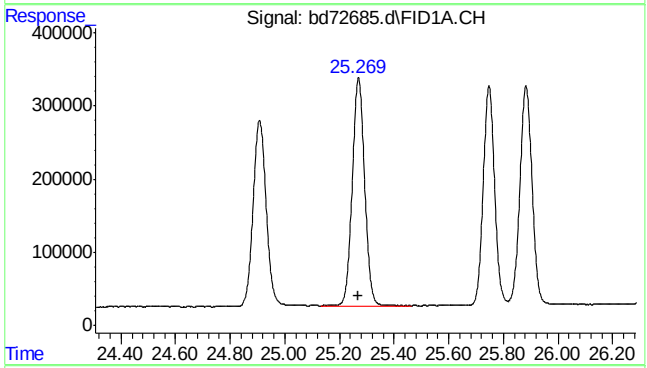
7

SGS ACCUTEST MC45799



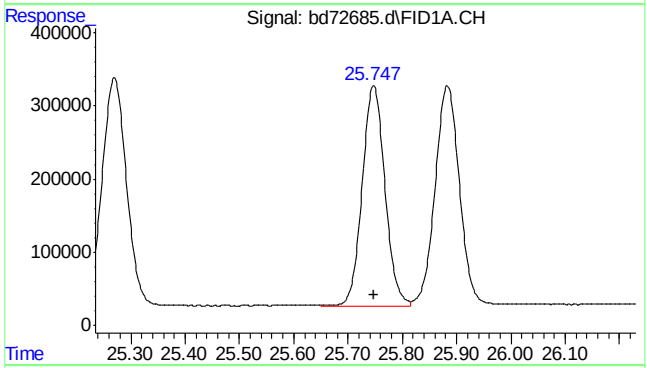
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 8489226
Conc: 9.90 ppb m



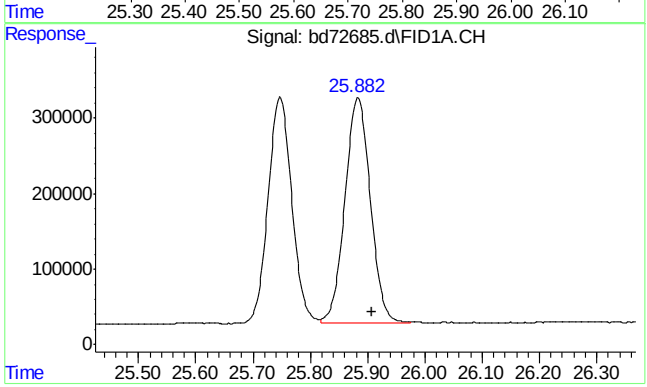
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 9966676
Conc: 10.40 ppb



#18 1,2,4-trimethylbenzene

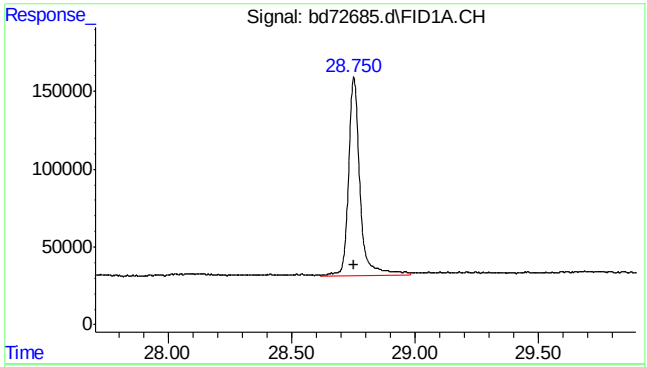
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 8741165
Conc: 10.03 ppb



#19 butylcyclohexane

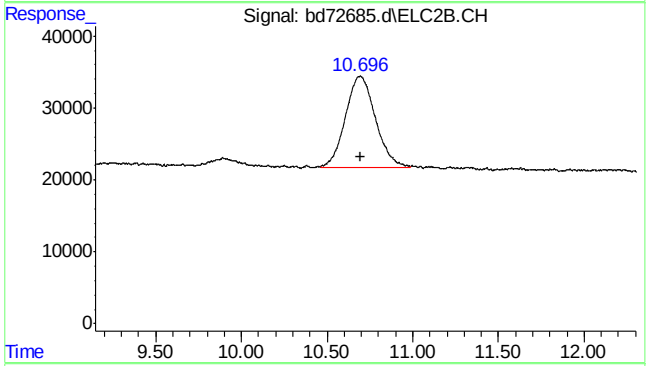
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 9260257
Conc: 10.09 ppb m

SGS ACCUTEST MC45799



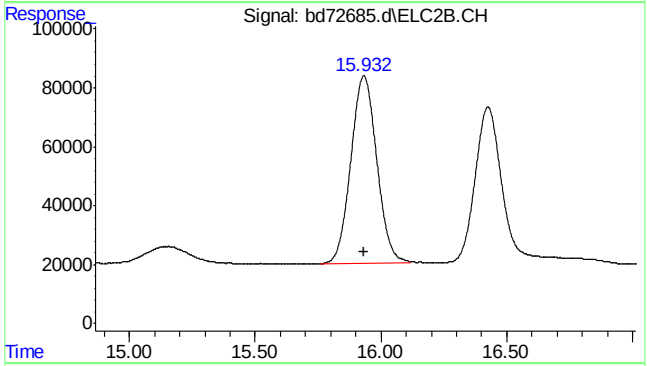
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 4112144
Conc: 9.61 ppb



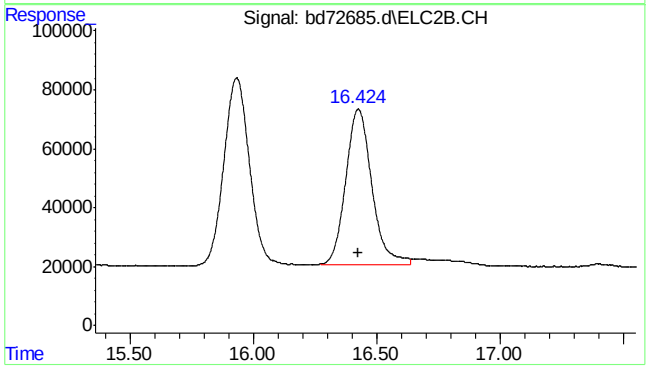
#23 mtbe #2

R.T.: 10.696 min
Delta R.T.: 0.000 min
Response: 1570260
Conc: 10.07 ppb m



#24 benzene #2

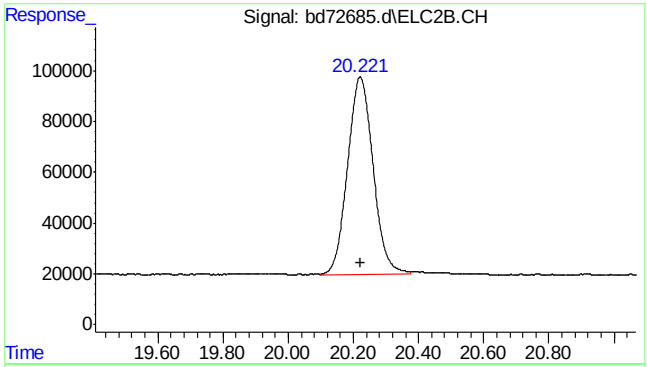
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 4569131
Conc: 9.76 ppb



#25 fluorobenzene #2

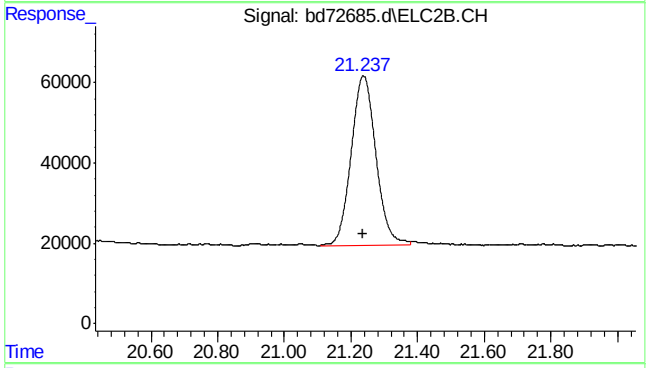
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 3885600
Conc: 10.97 ppb m

SGS ACCUTEST MC45799



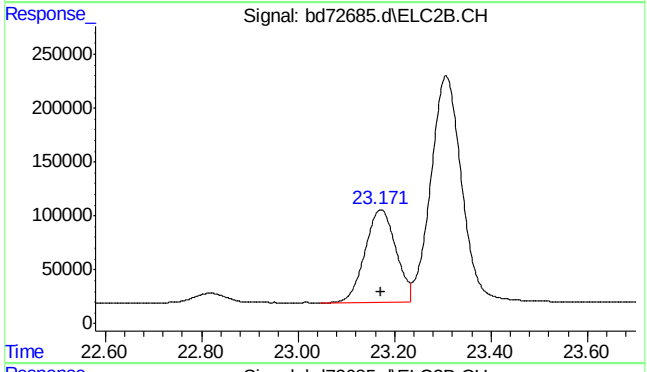
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 4236945
Conc: 9.80 ppb m



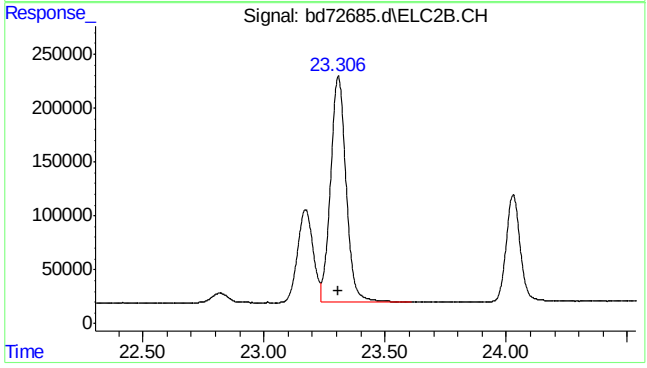
#27 2,3,4-trifluorotoluene #2

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2170174
Conc: 10.53 ppb m



#28 ethylbenzene #2

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3840788
Conc: 9.81 ppb



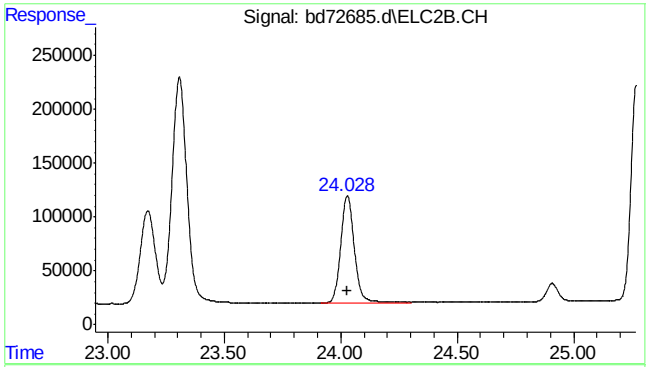
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 9363713
Conc: 19.64 ppb

7.5.13

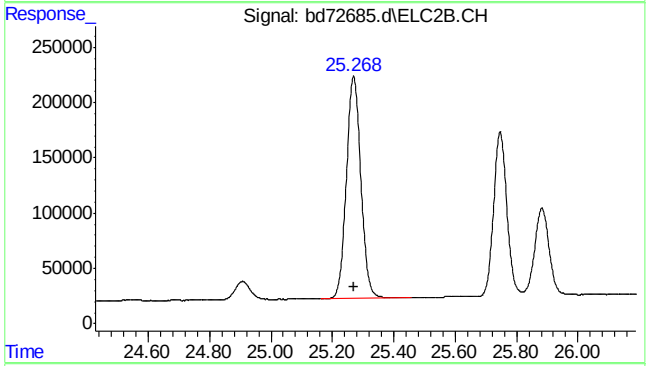
7

SGS ACCUTEST MC45799



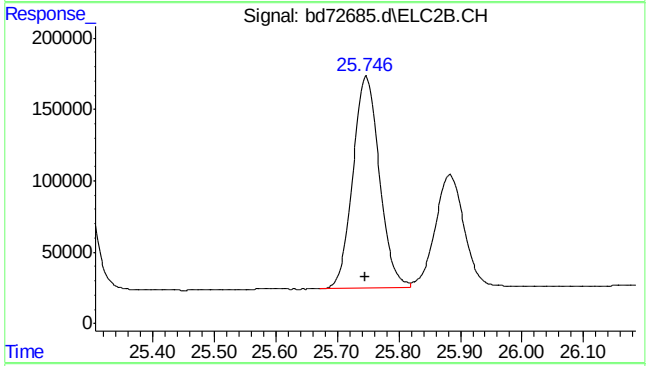
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 4014129
Conc: 9.82 ppb



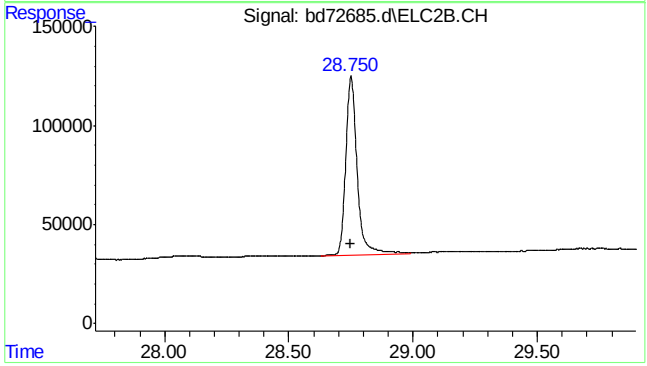
#31 1,3,5-trimethylbenzene #2

R.T.: 25.268 min
Delta R.T.: 0.000 min
Response: 6605929
Conc: 10.08 ppb m



#32 1,2,4-trimethylbenzene #2

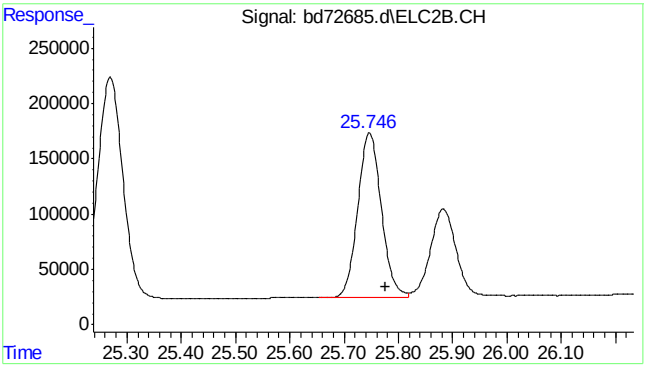
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 4478298
Conc: 9.73 ppb m



#33 naphthalene #2

R.T.: 28.750 min
Delta R.T.: 0.000 min
Response: 2921622
Conc: 9.54 ppb m

SGS ACCUTEST MC45799



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	4489691
Conc:	9.79 ppb m

7.5.13

7

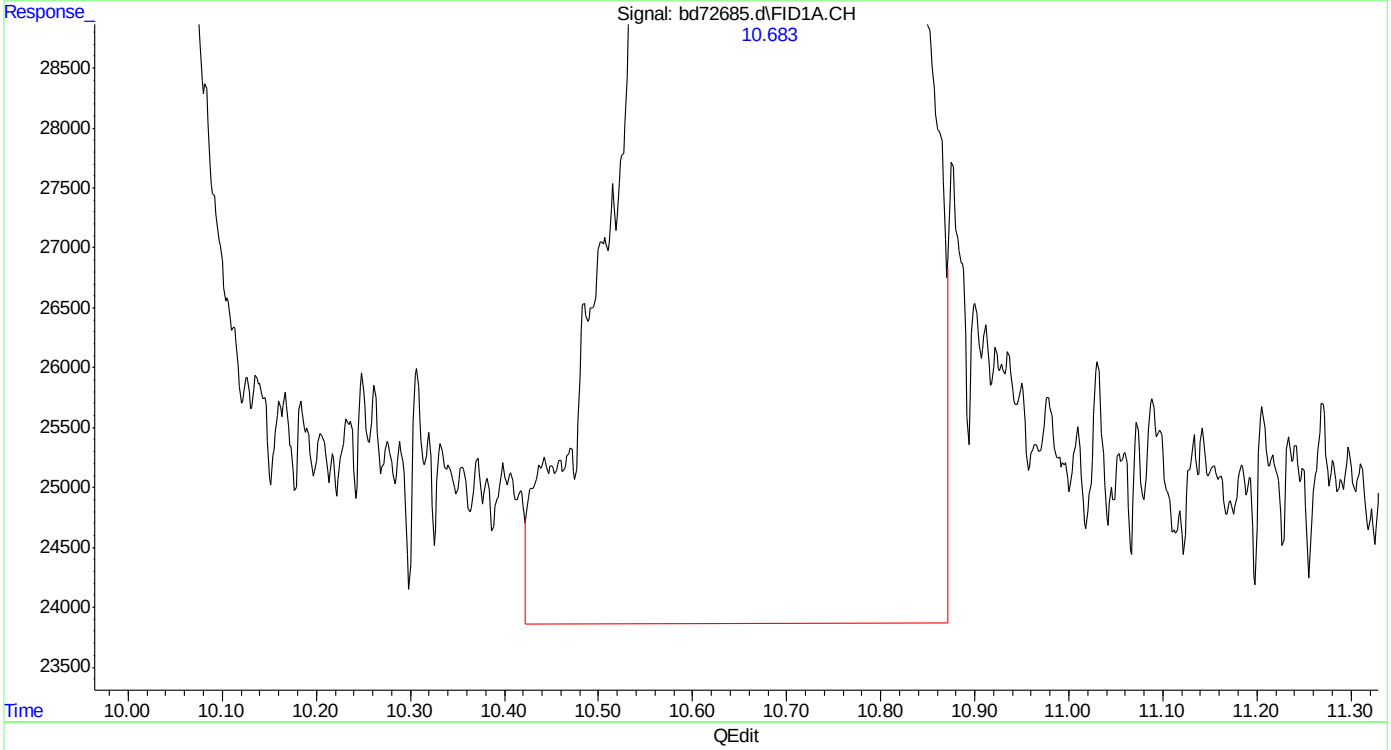
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
10.685min 9.932 ppb
response 3071017

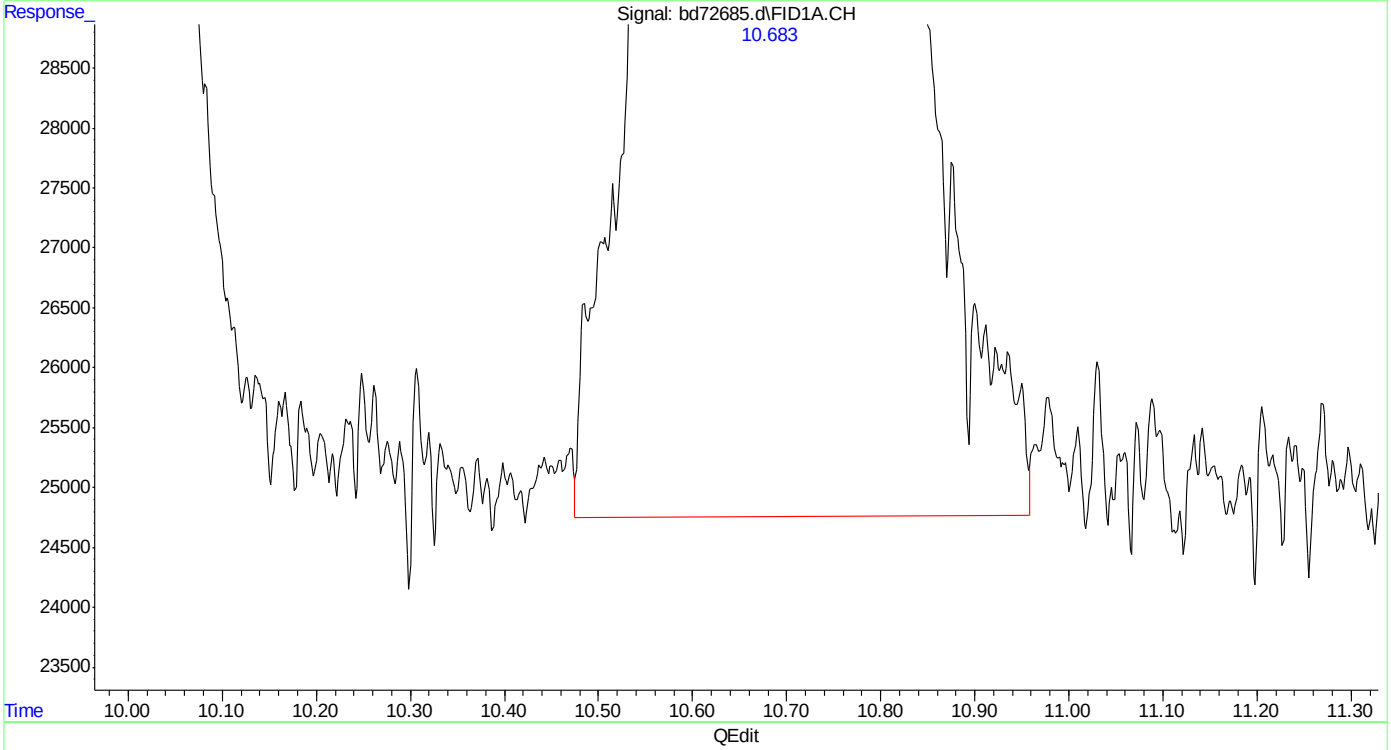
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
10.683min 9.362 ppb m
response 2894827

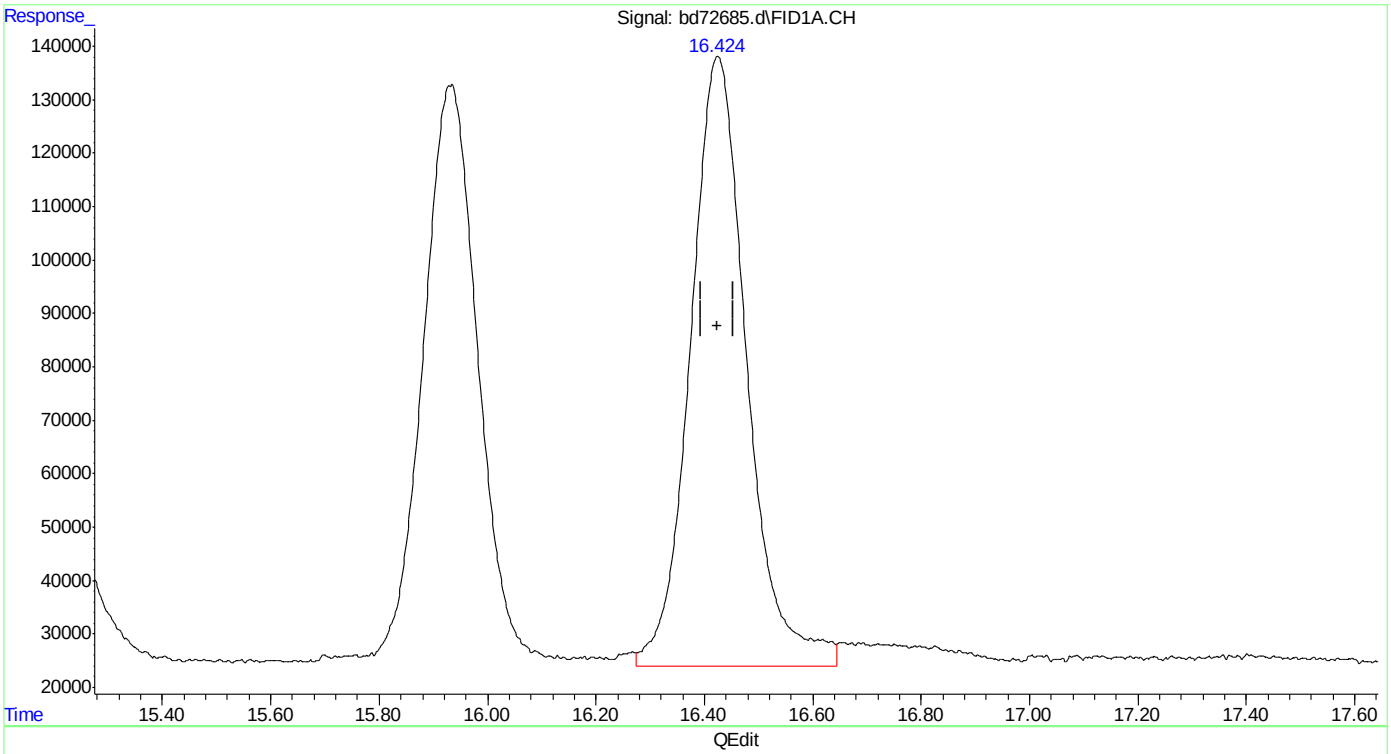
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 10:44:19
Operator  : tonyf
Sample    : ic3752-10
Misc      : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)

16.425min 12.087 ppb

response 8237267

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:25:00 2016

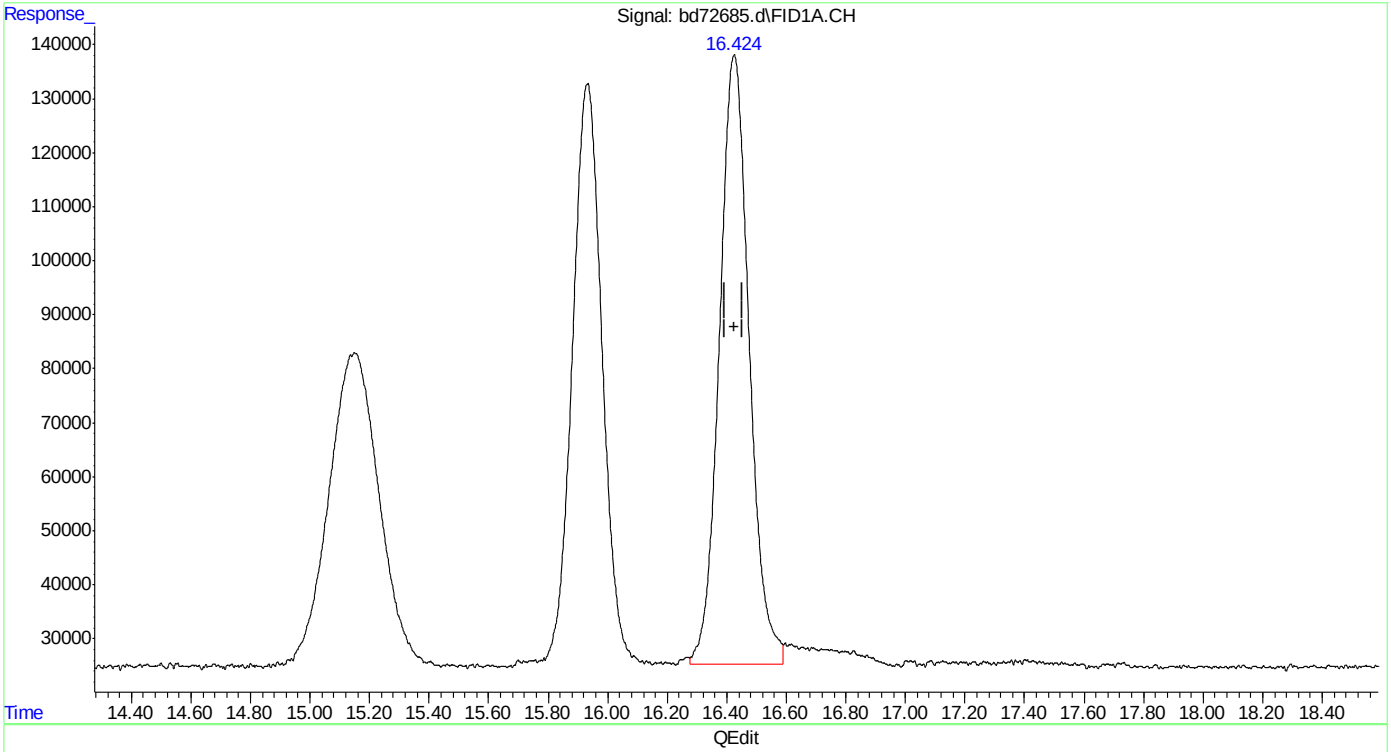
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
16.424min 11.475 ppb m
response 7820563

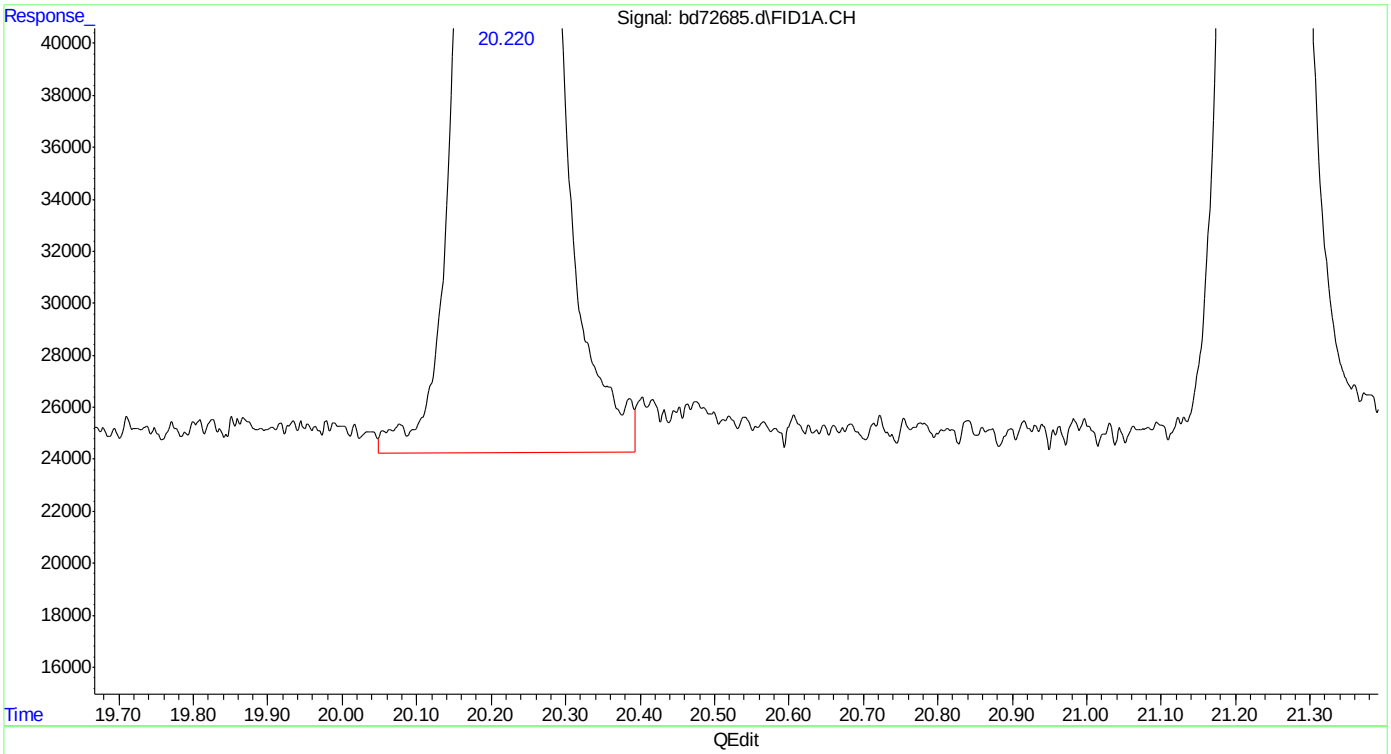
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:09 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
20.221min 8.899 ppb
response 7610241

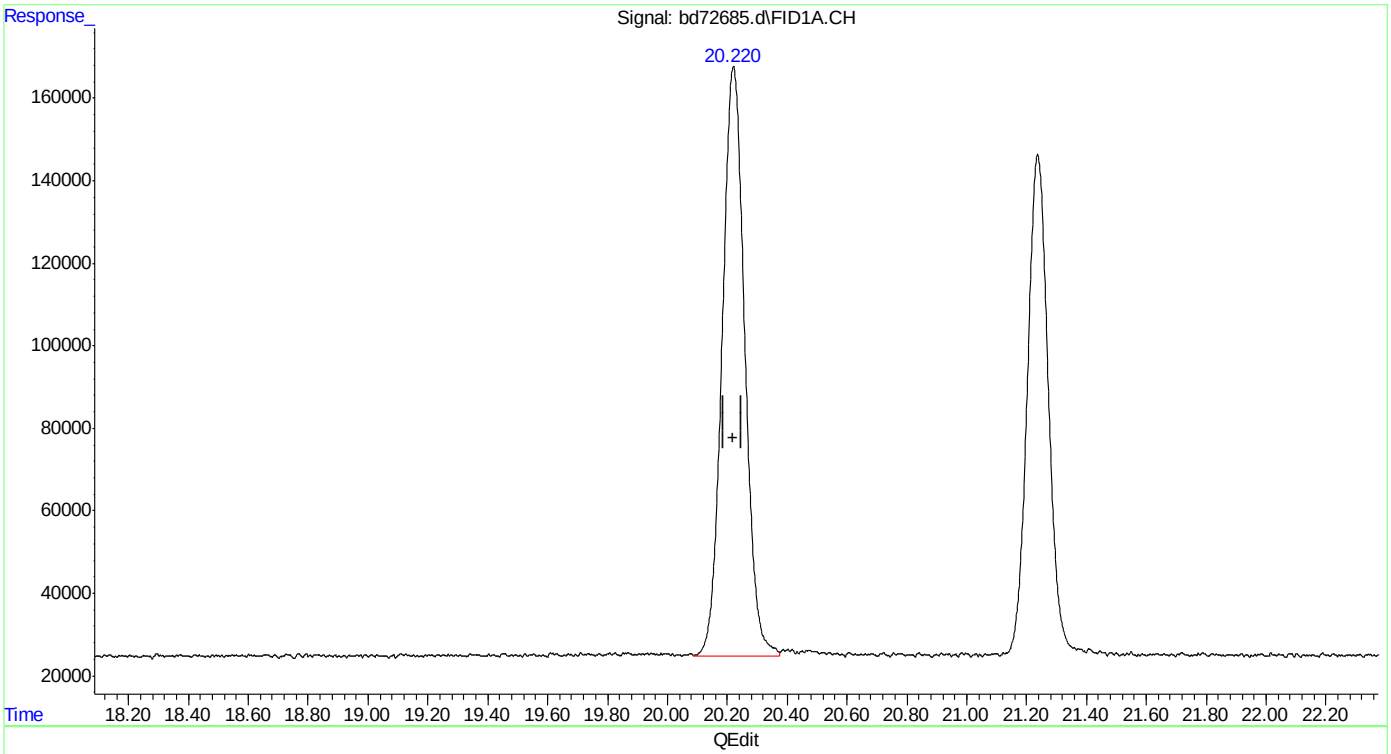
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
20.220min 8.745 ppb m
response 7477968

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:25:29 2016

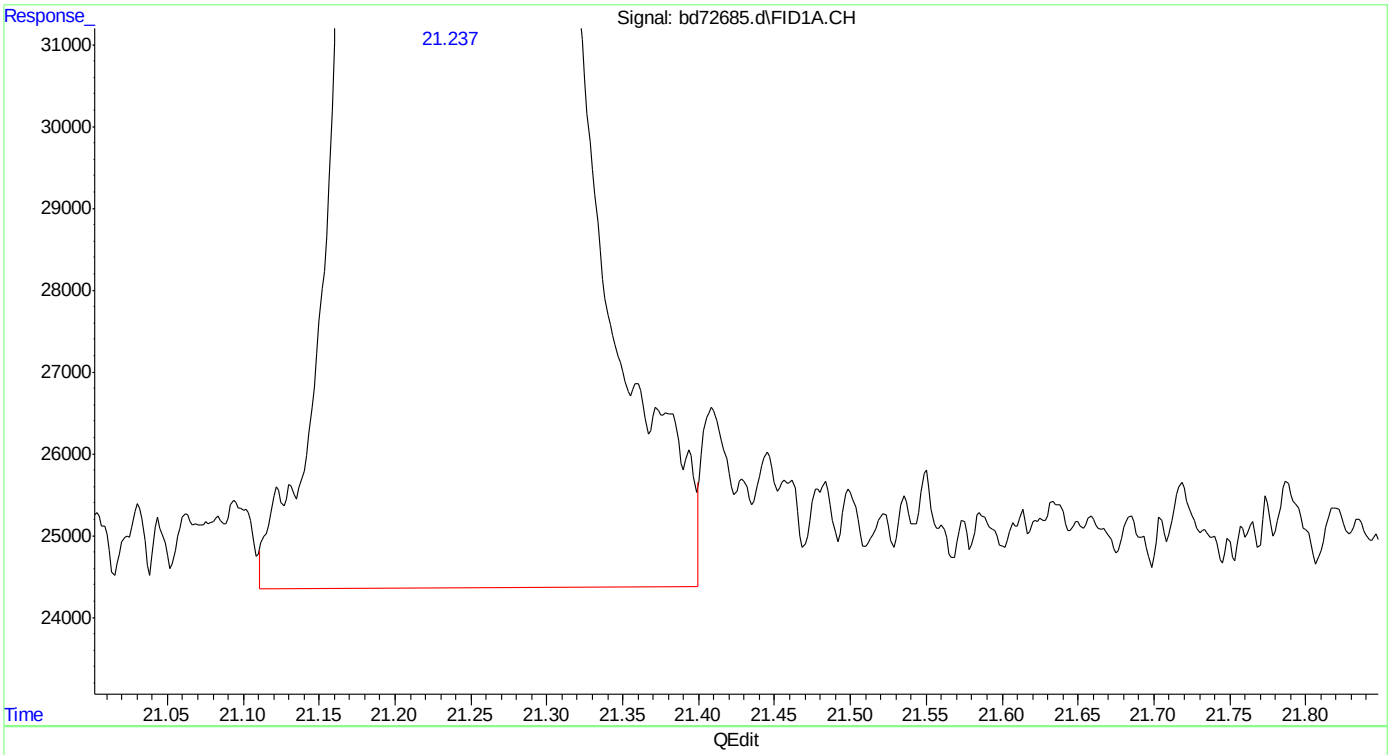
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
21.238min 11.128 ppb
response 6002419

(+) = Expected Retention Time

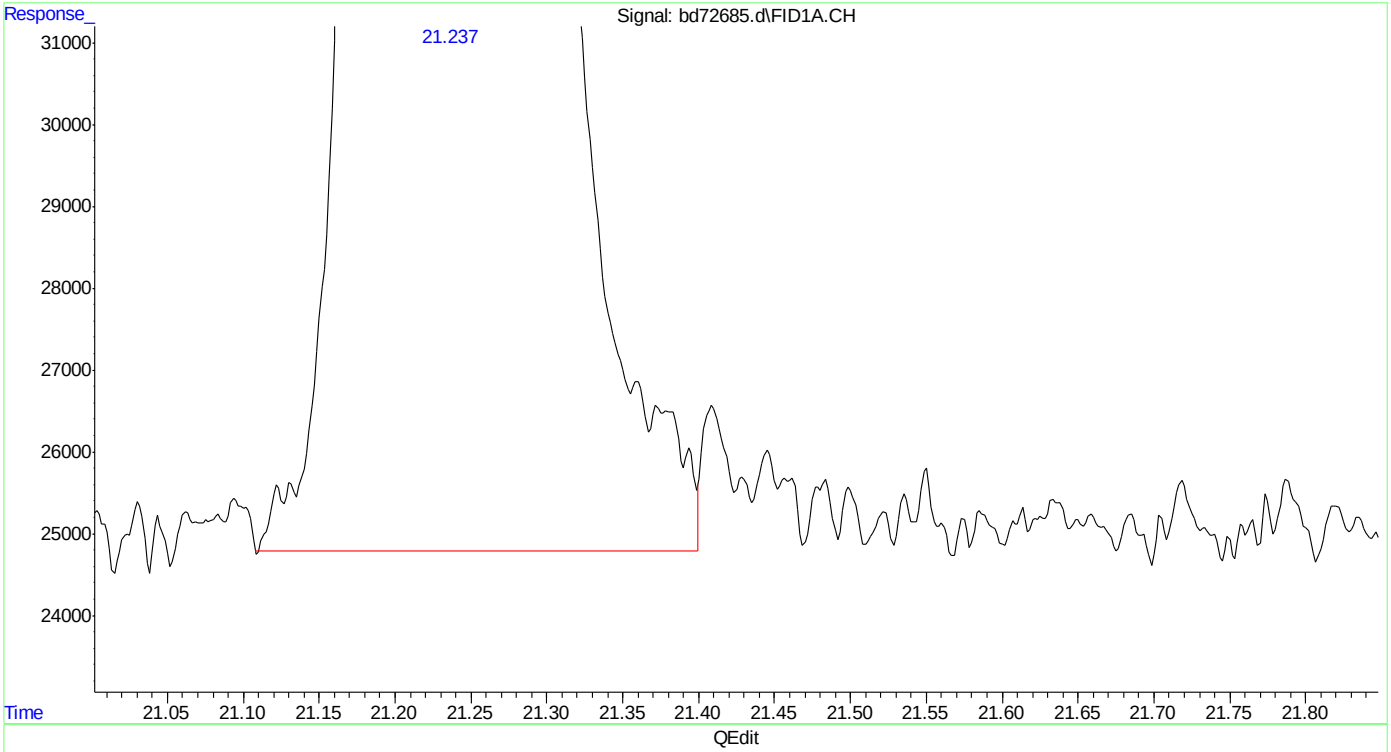
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
21.237min 10.991 ppb m
response 5928362

(+) = Expected Retention Time

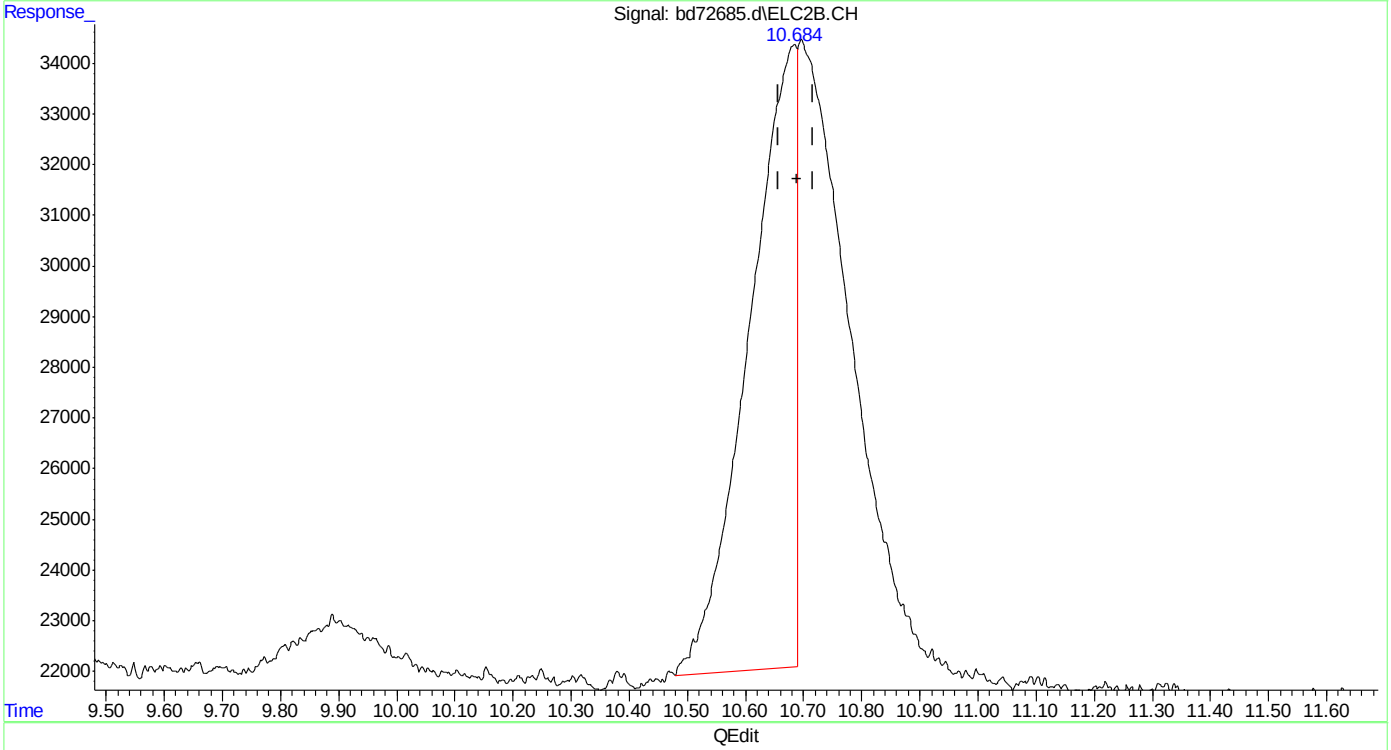
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
10.684min 4.270 ppb
response 680109

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:21 2016 Page: 1

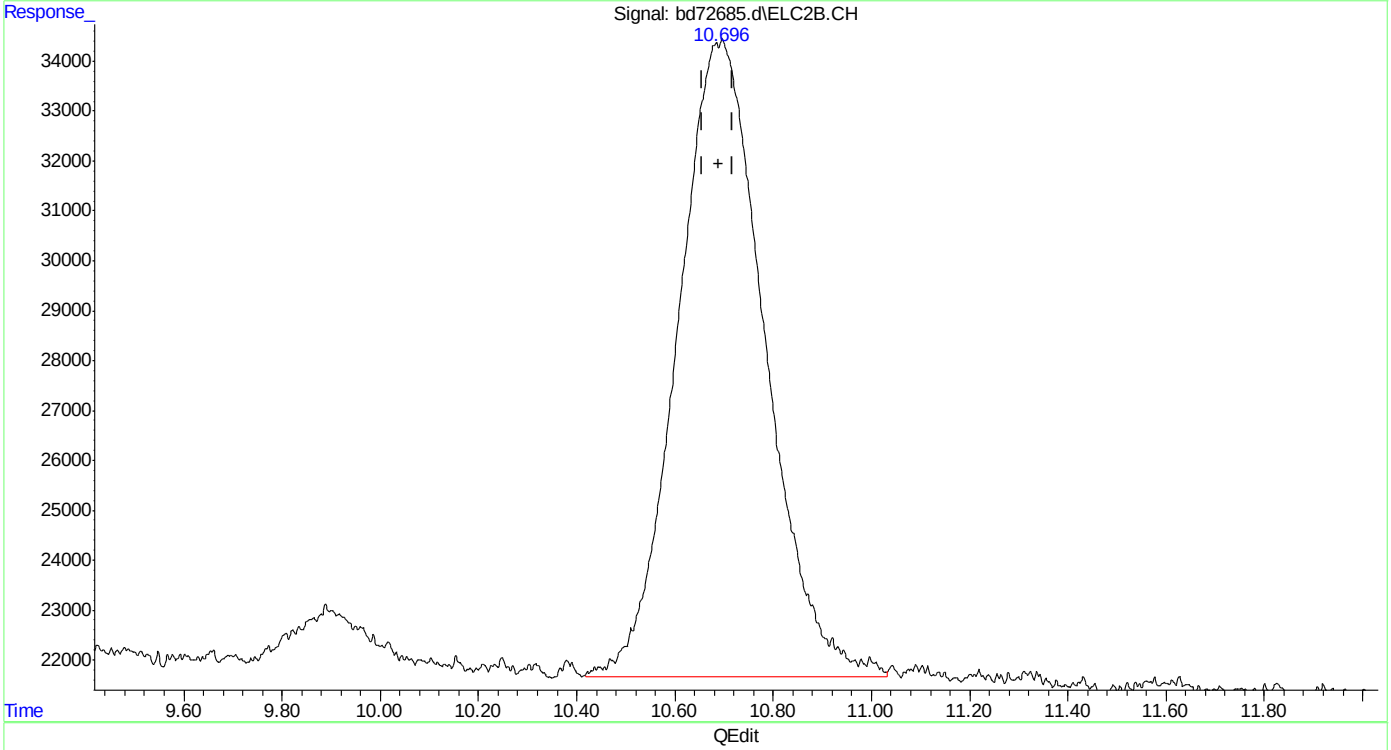
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
10.696min 9.879 ppb m
response 1573347

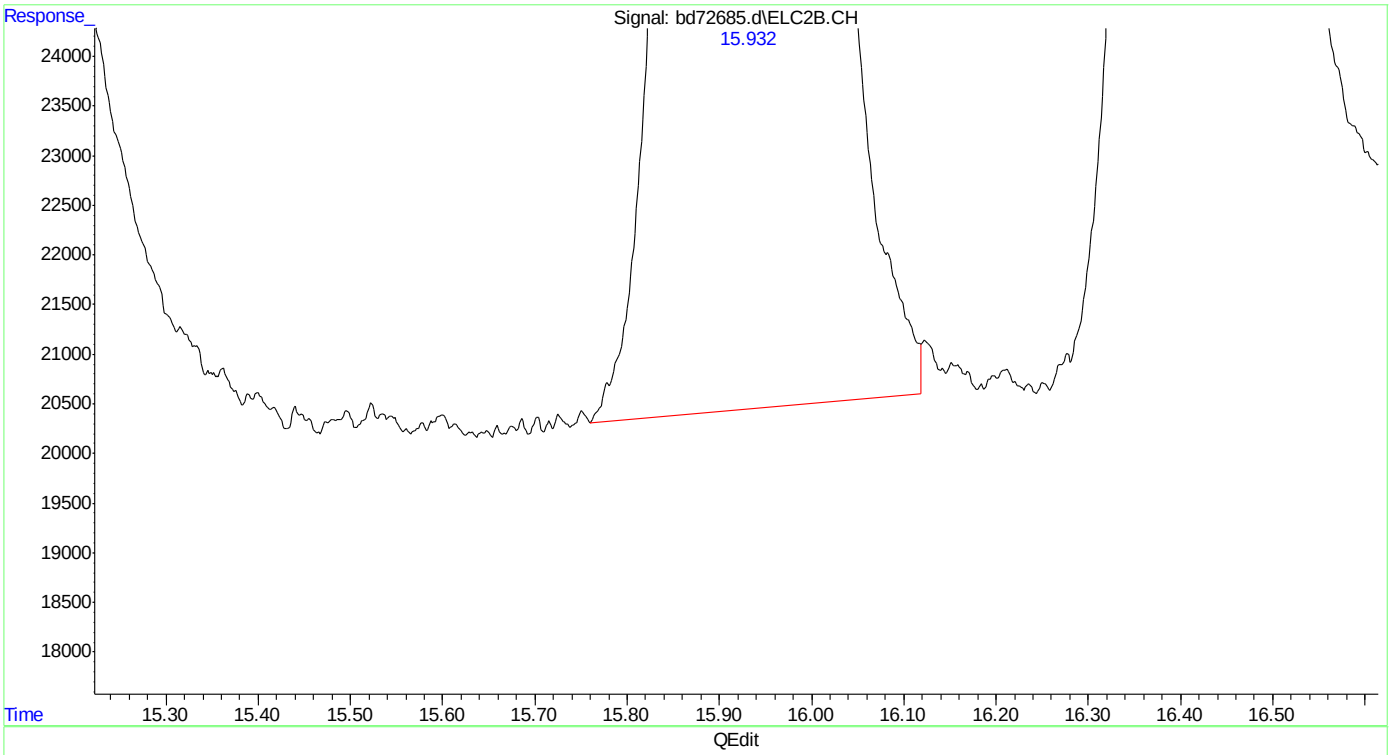
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
15.932min 9.475 ppb
response 4569131

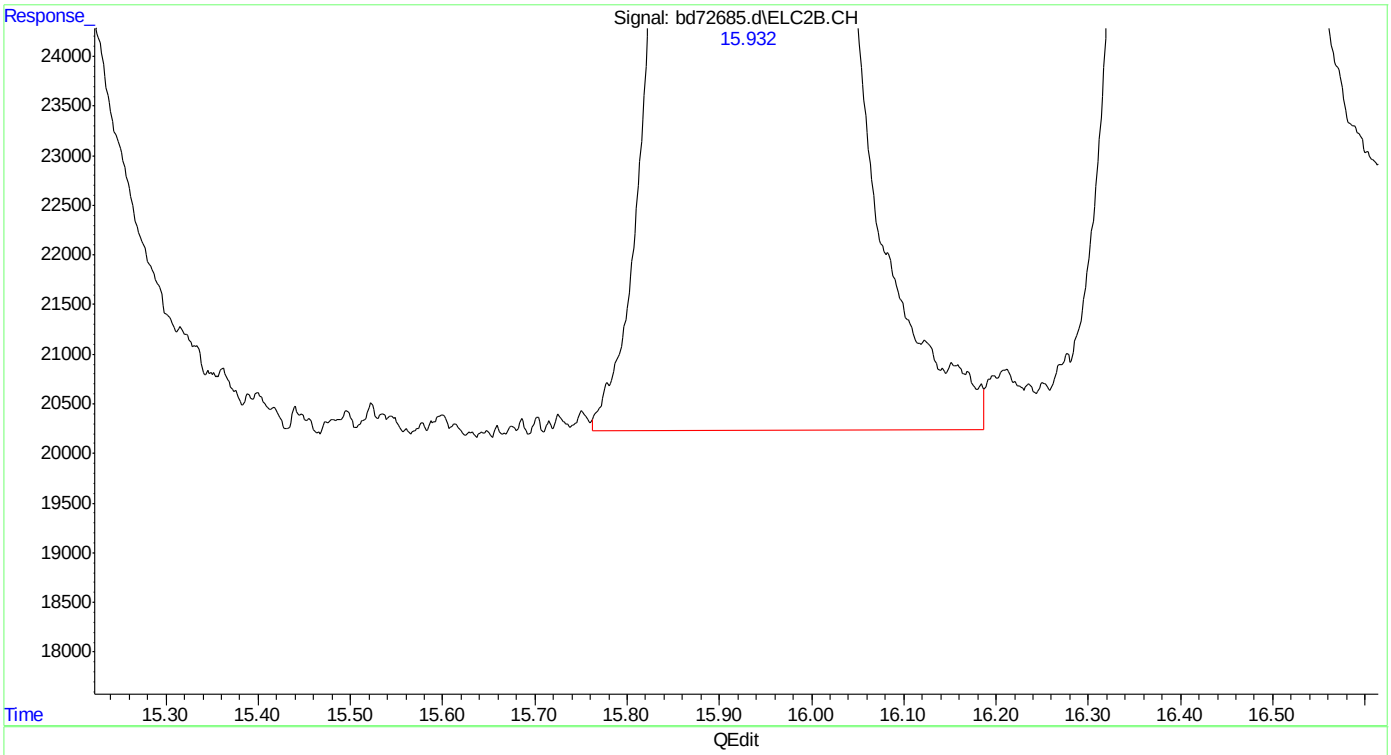
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:34 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
15.932min 9.625 ppb m
response 4641530

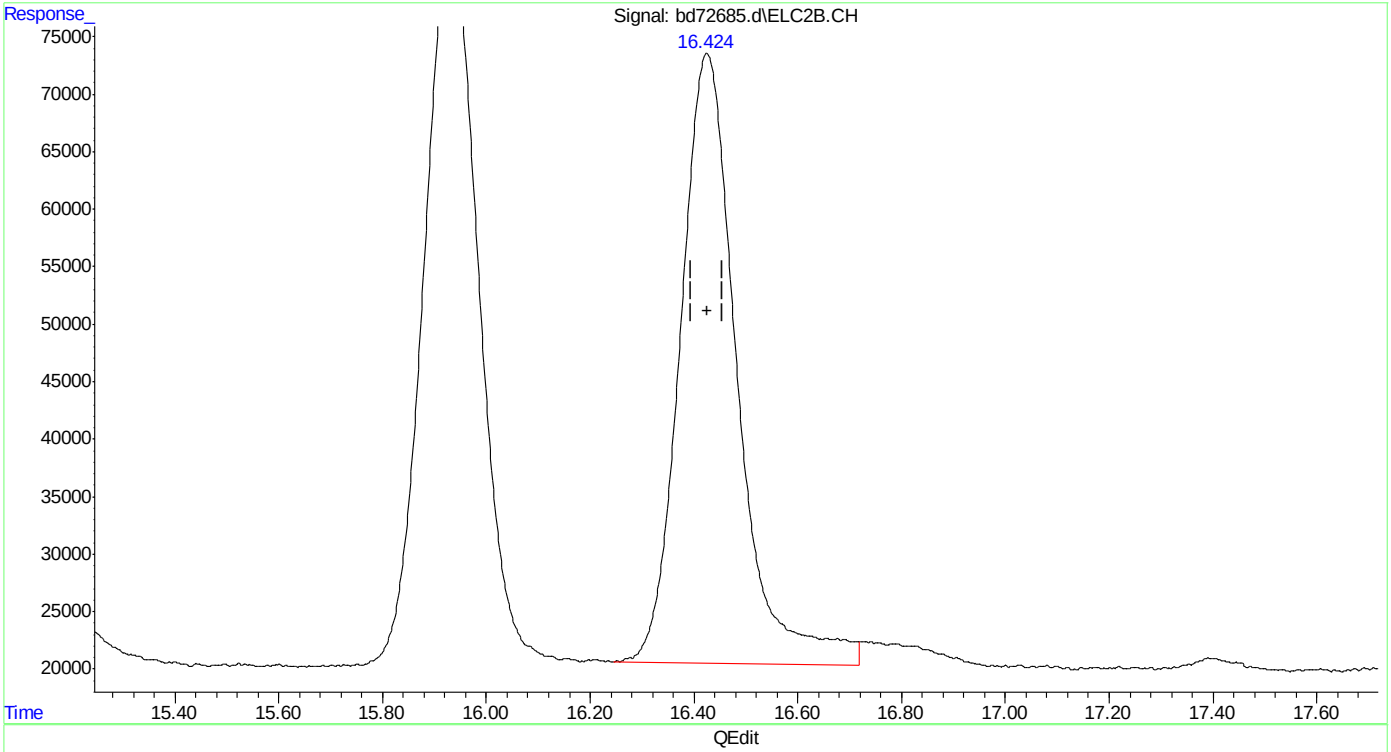
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
16.425min 13.152 ppb
response 4046516

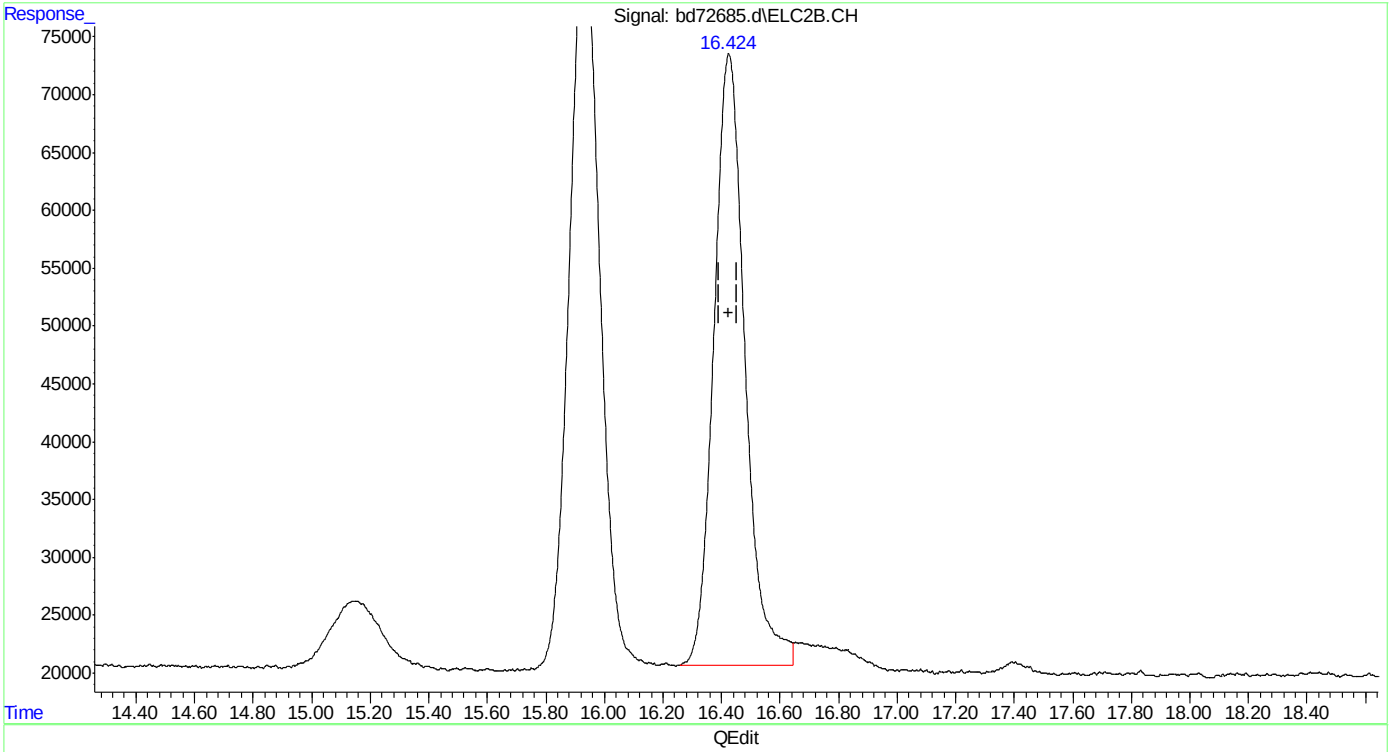
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
16.424min 12.680 ppb m
response 3901231

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:50 2016

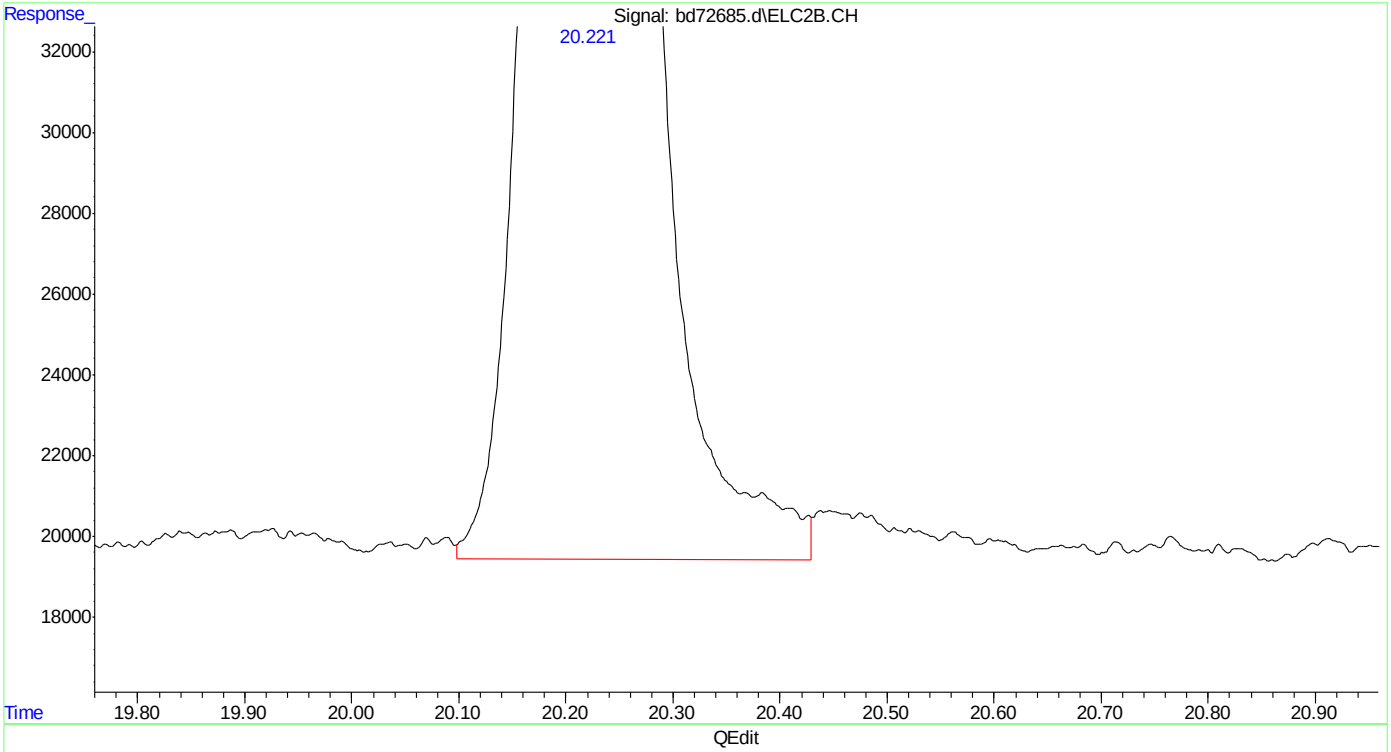
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
20.221min 9.622 ppb
response 4341841

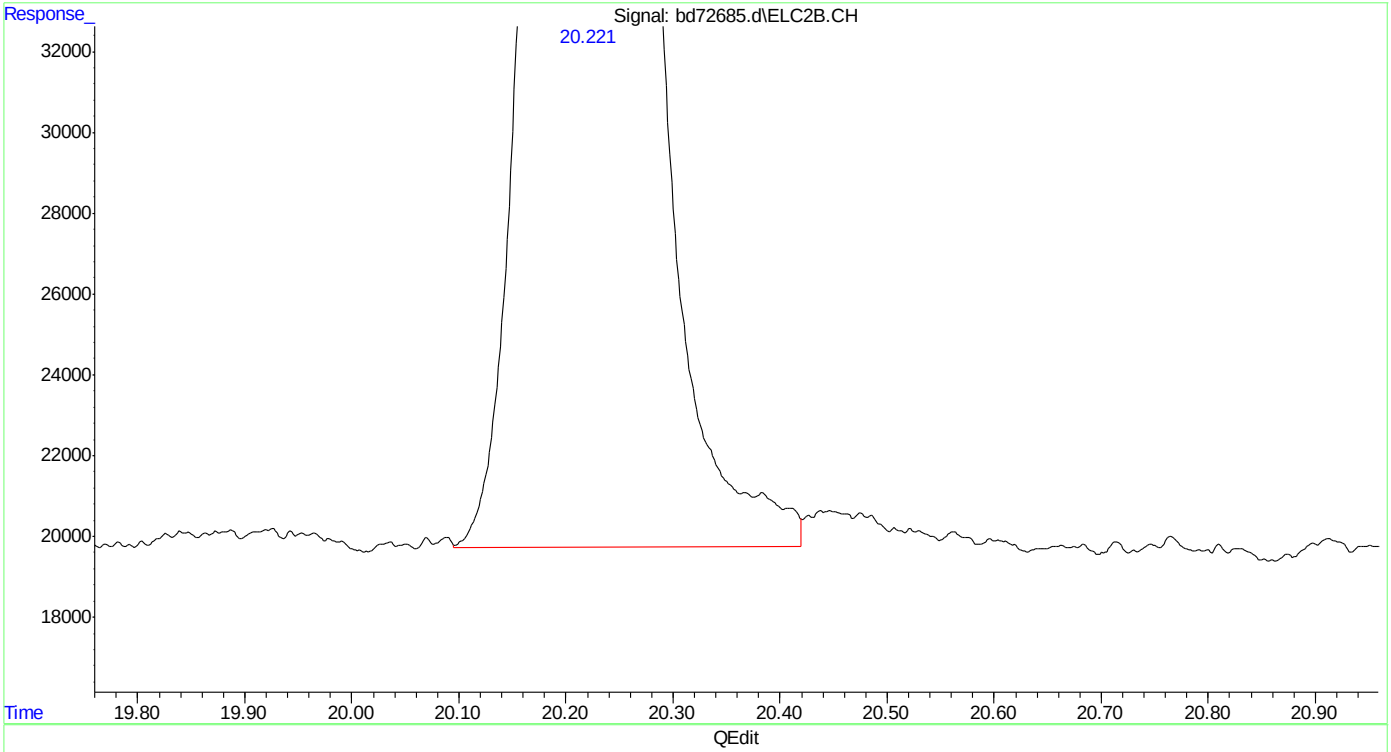
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
20.221min 9.485 ppb m
response 4279870

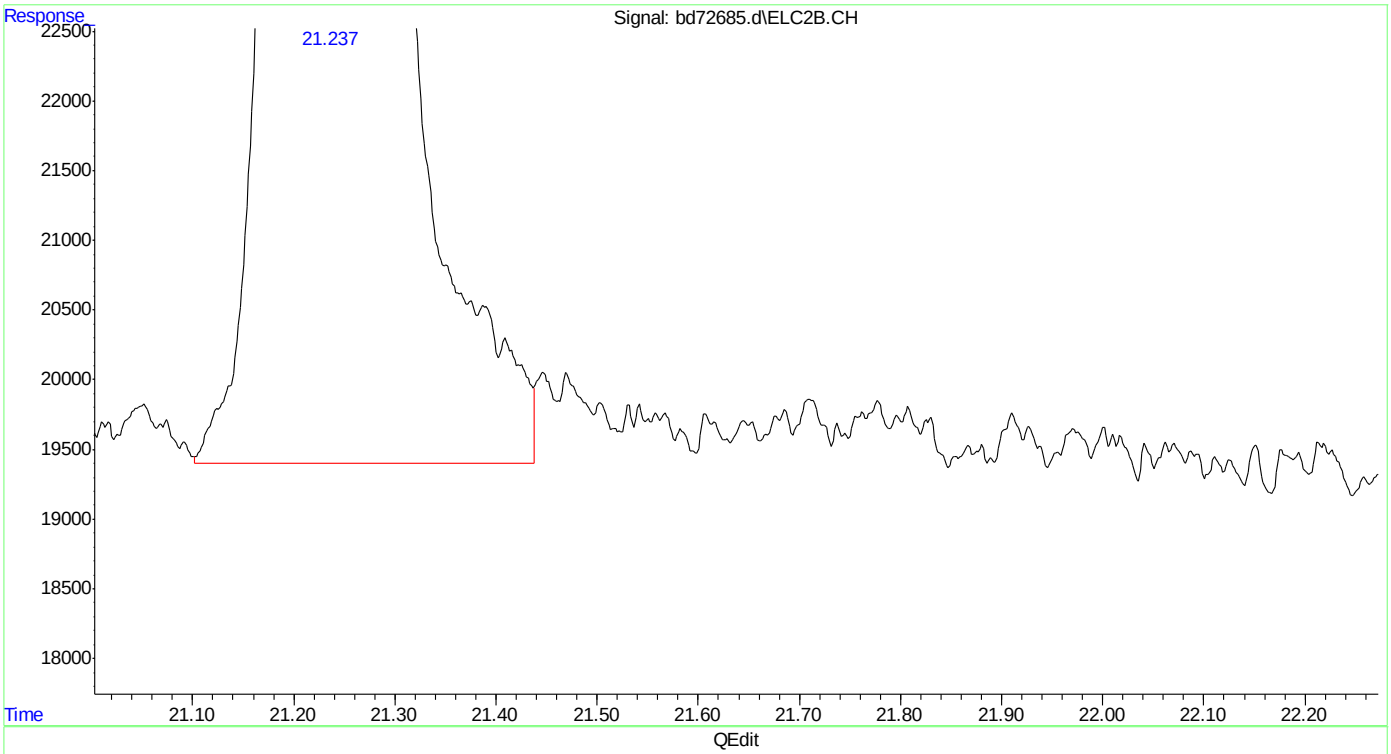
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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)
21.238min 12.193 ppb
response 2212042

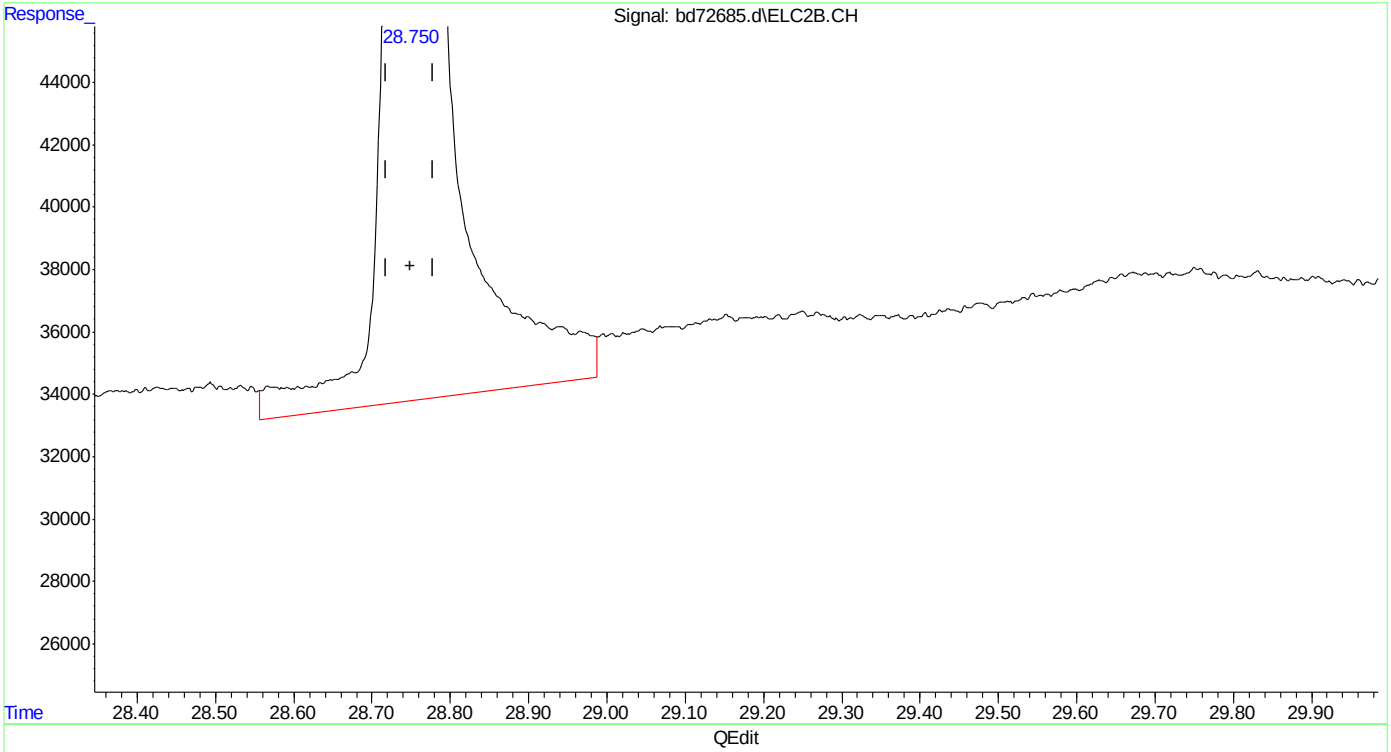
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
28.751min 8.157 ppb
response 3113386

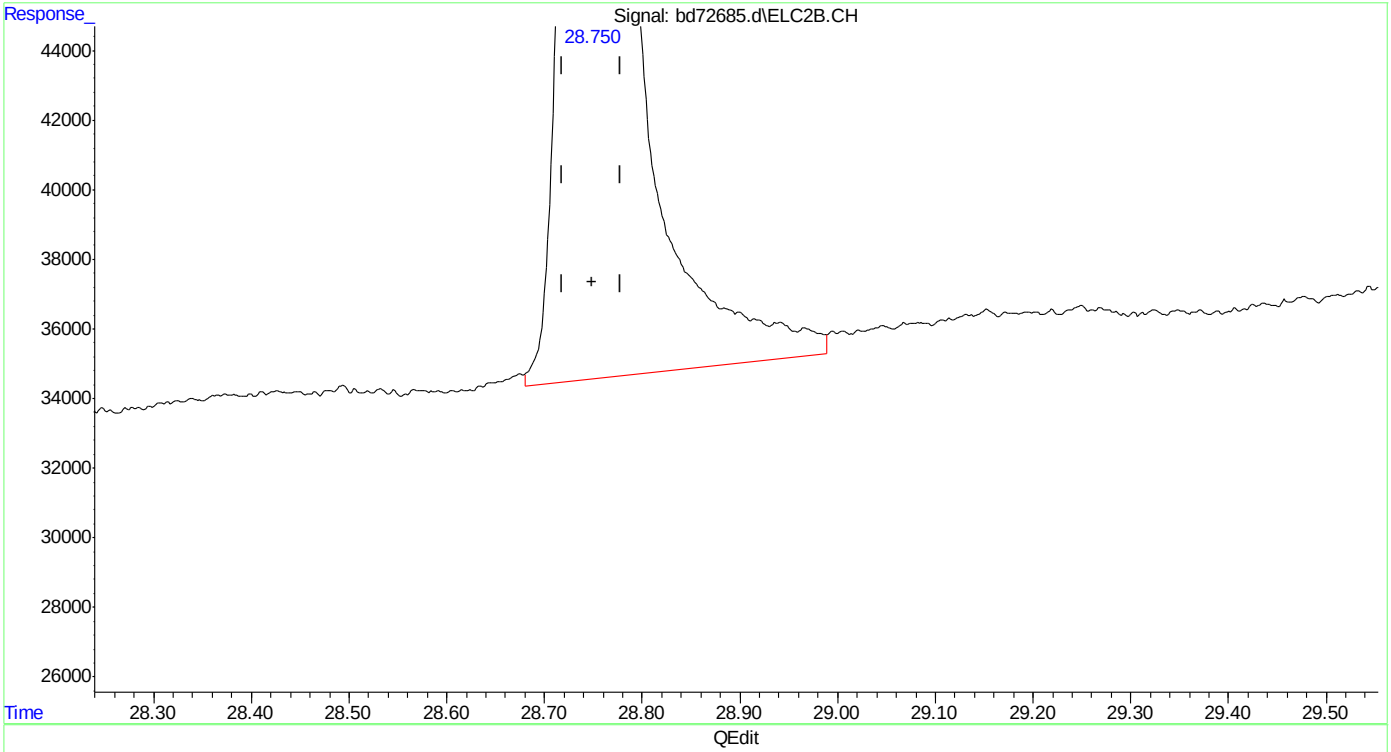
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:24:00 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:53:15 2016
Response via : Initial 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
28.750min 7.611 ppb m
response 2905214

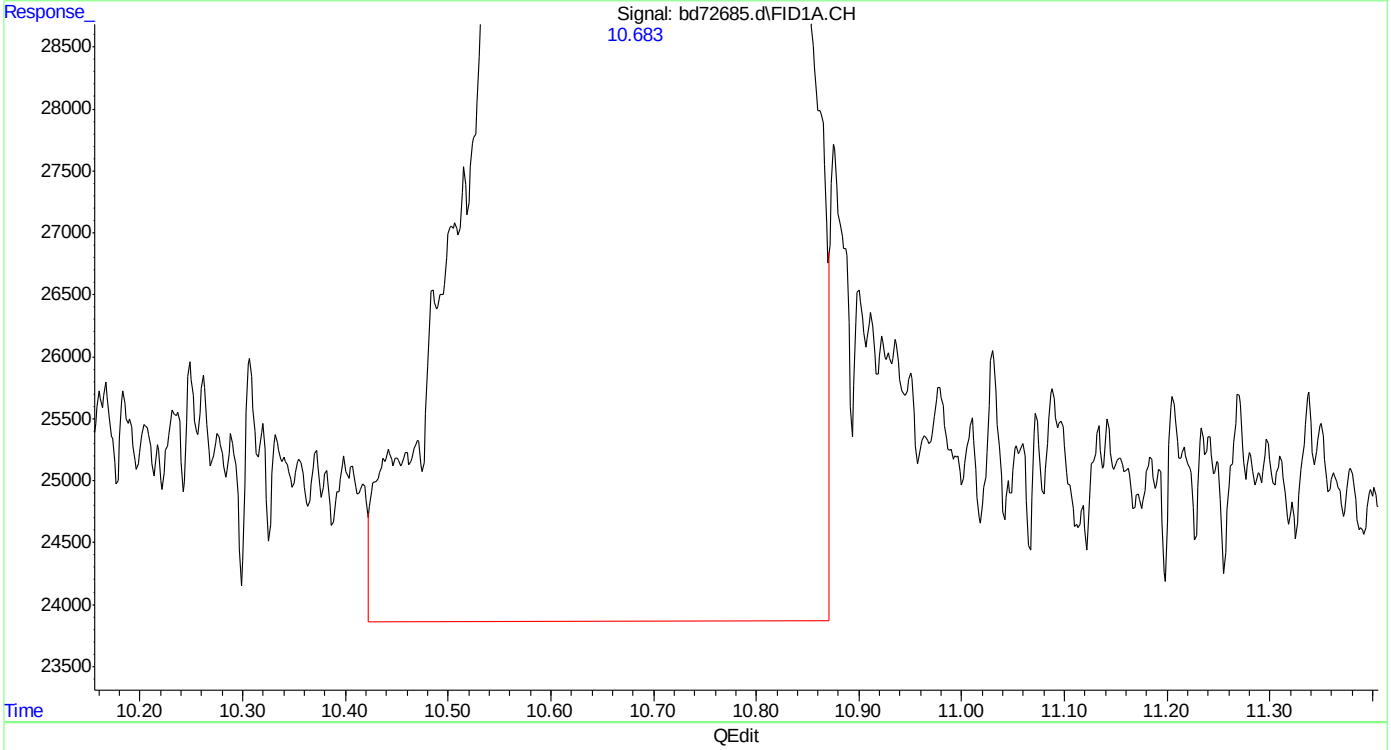
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
10.685min 10.259 ppb
response 3071017

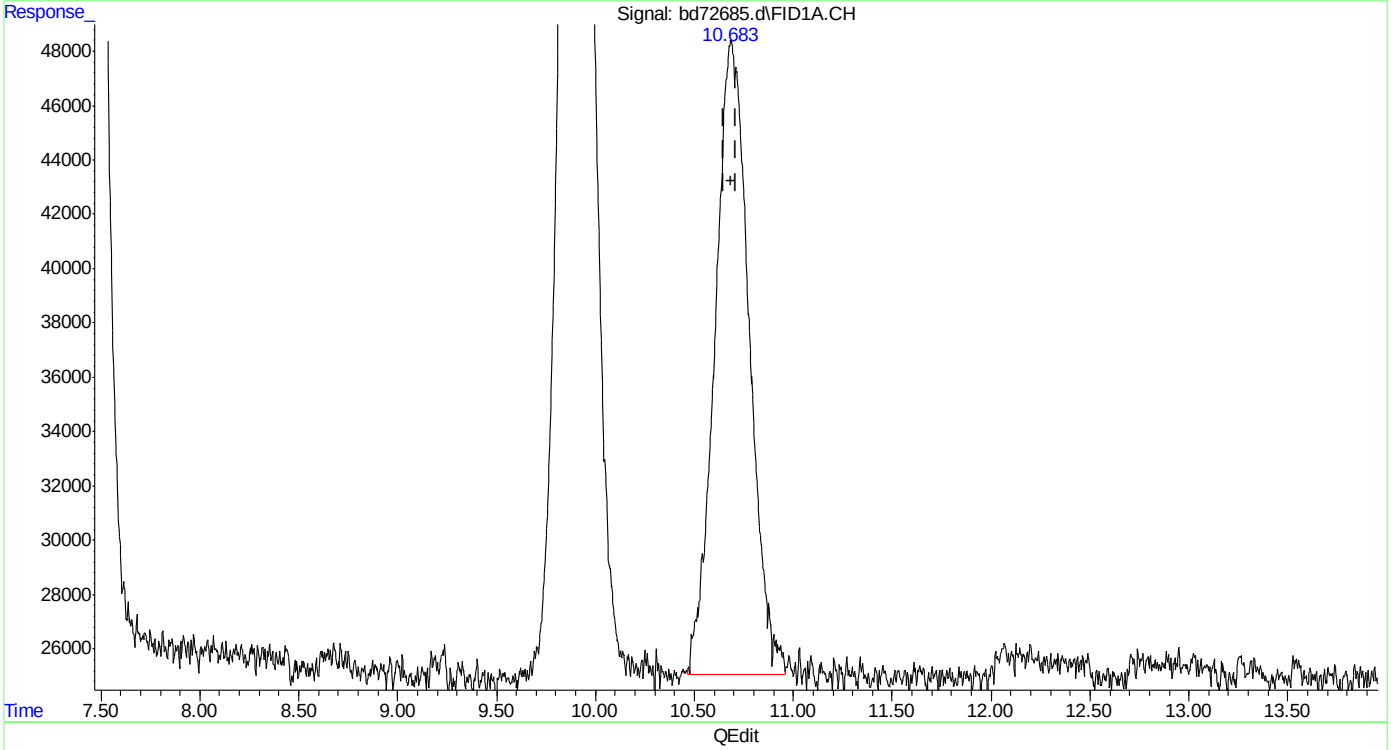
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
10.683min 9.395 ppb m
response 2812431

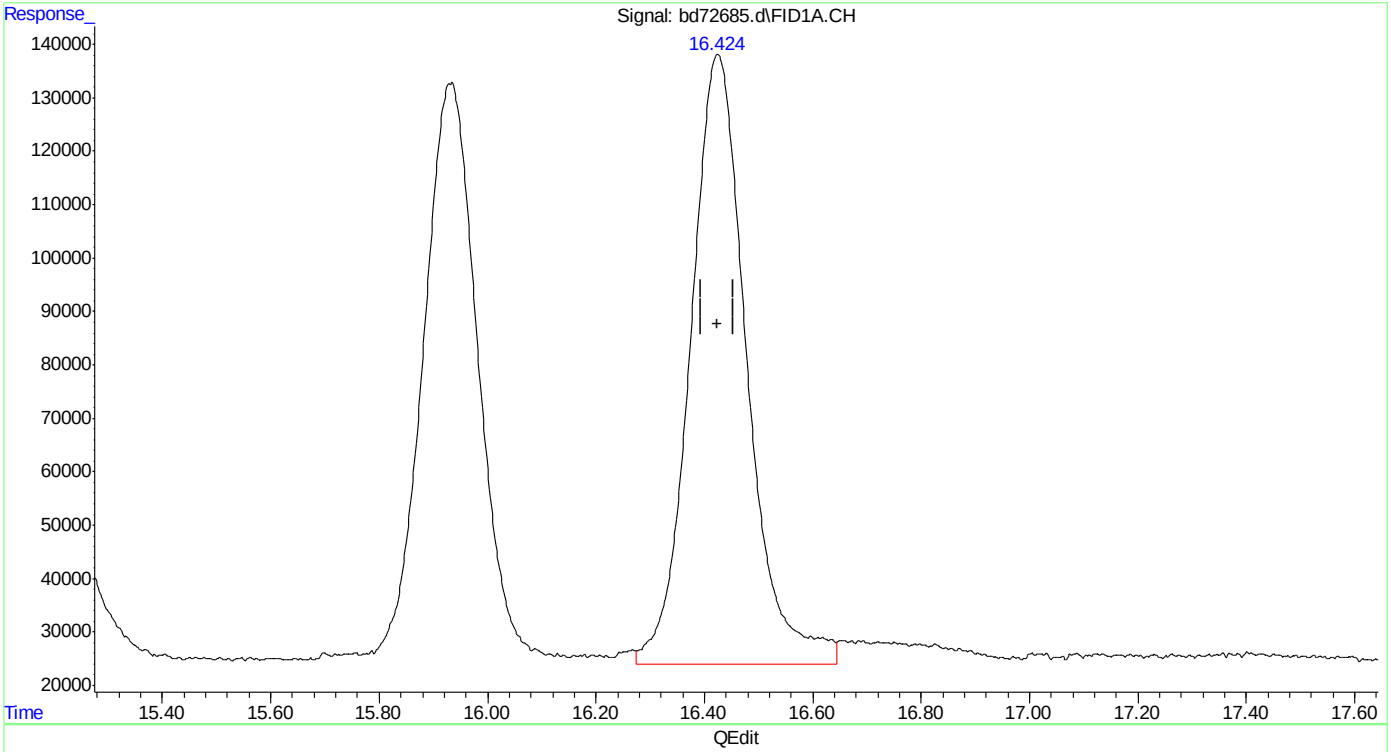
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
16.425min 11.256 ppb
response 8237267

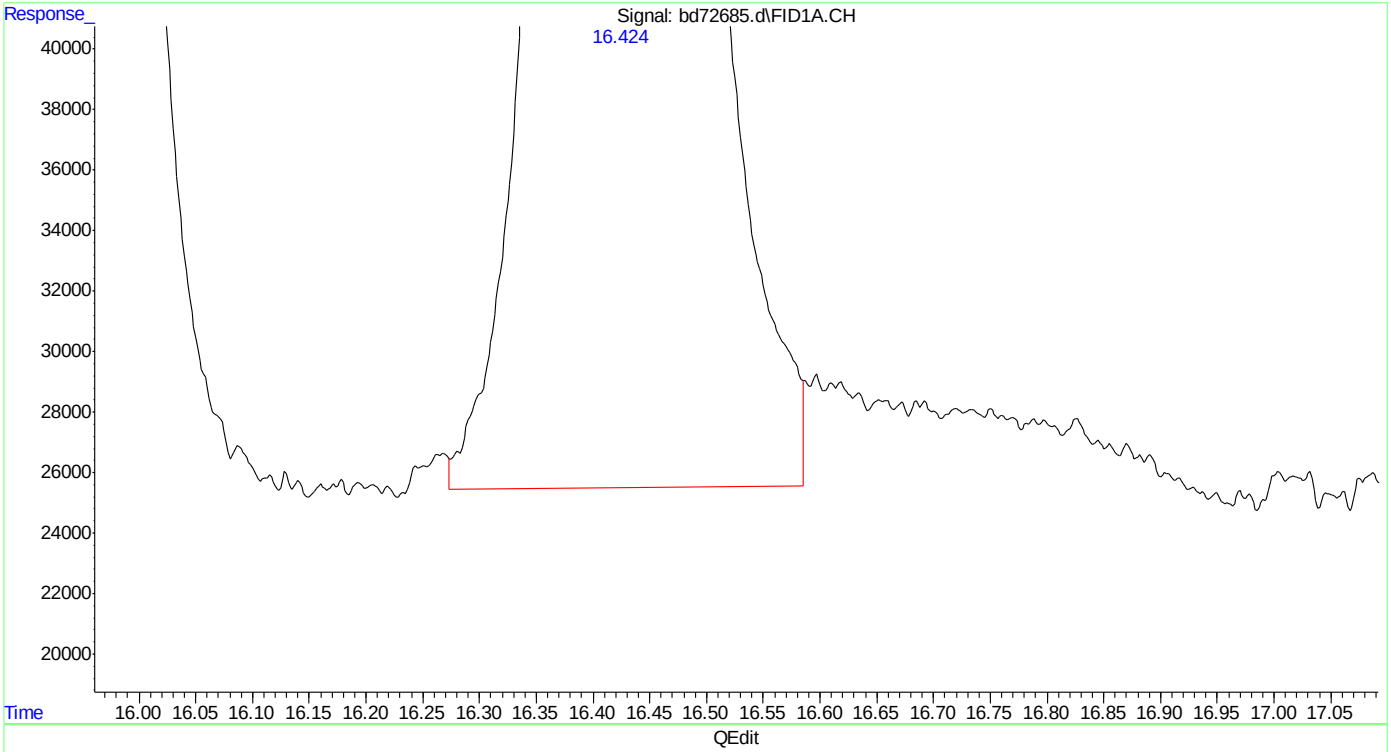
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
16.424min 10.647 ppb m
response 7791413

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:15 2016 Page: 1

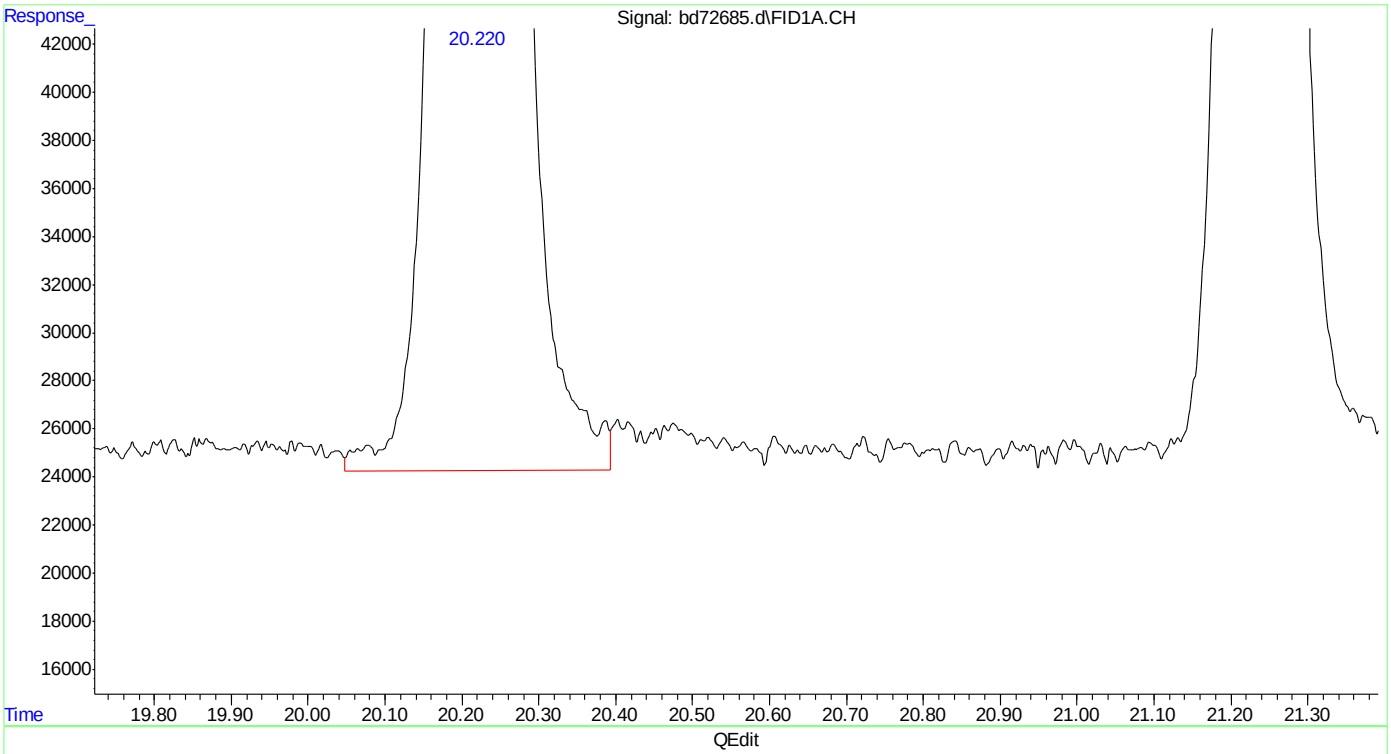
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
20.221min 9.495 ppb
response 7610241

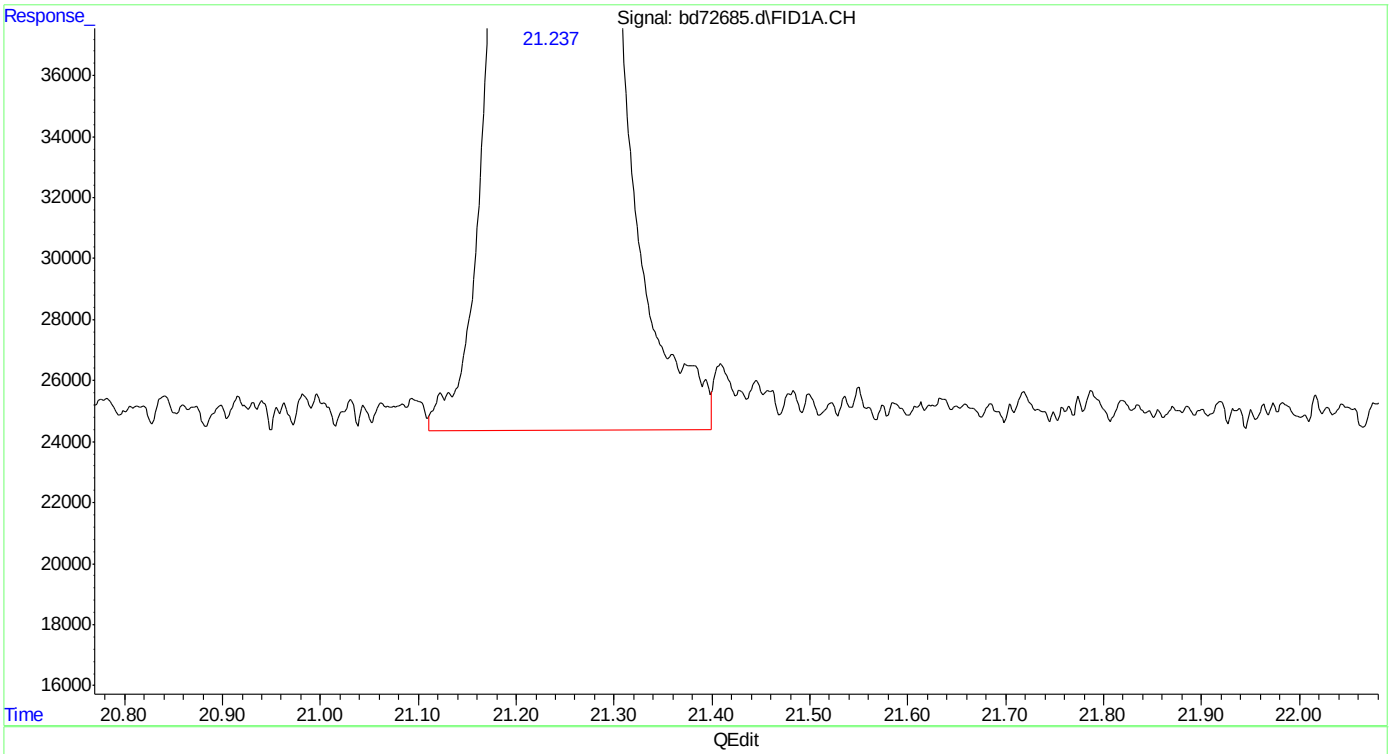
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
21.238min 12.845 ppb
response 6002419

(+) = Expected Retention Time

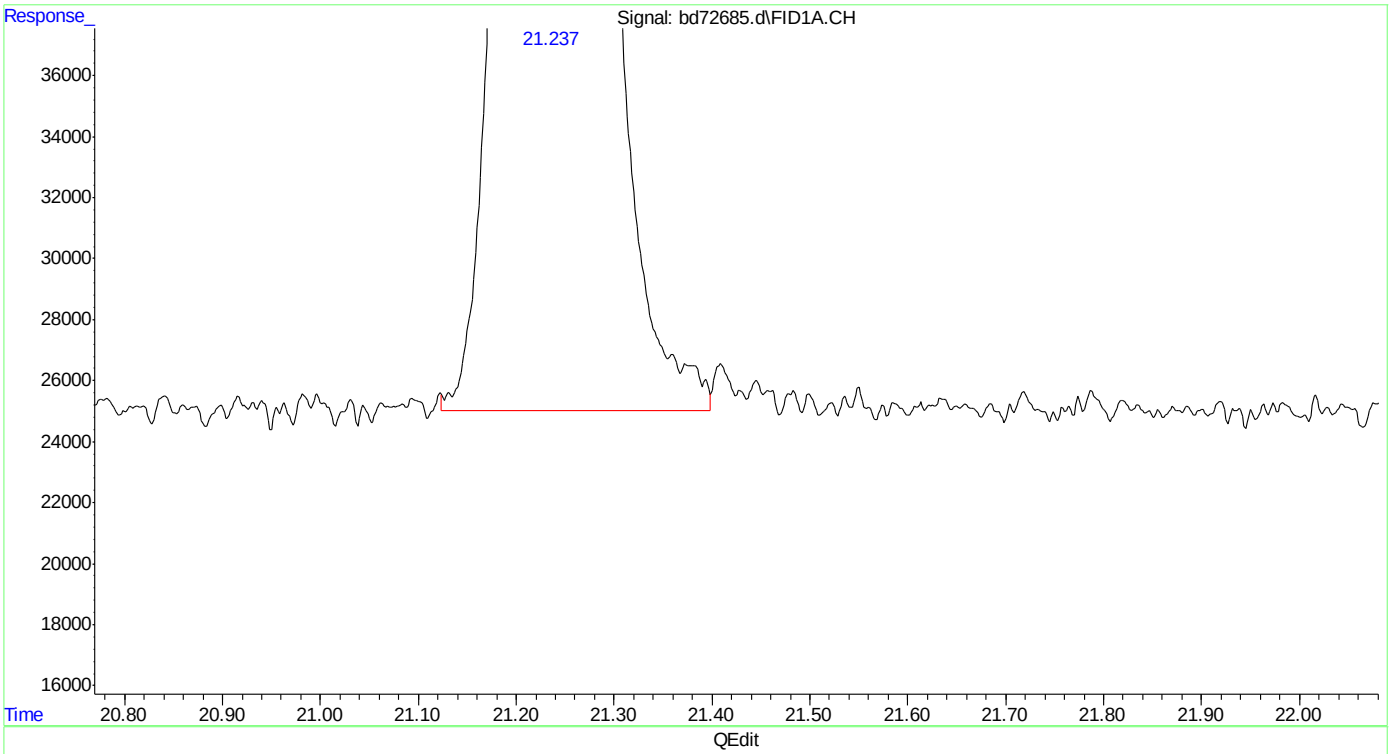
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
21.237min 12.597 ppb m
response 5886759

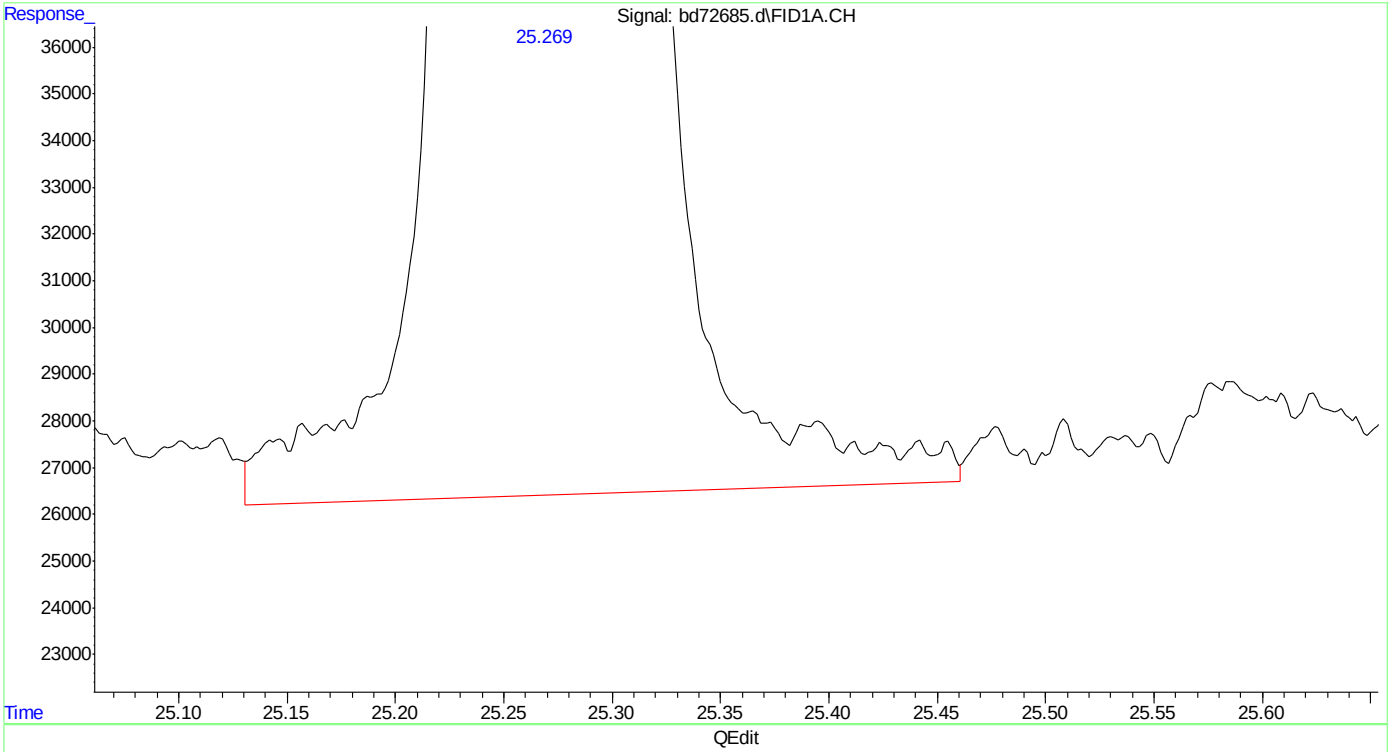
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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) 1,3,5-trimethylbenzene (t)
25.270min 10.440 ppb
response 9966676

(+) = Expected Retention Time

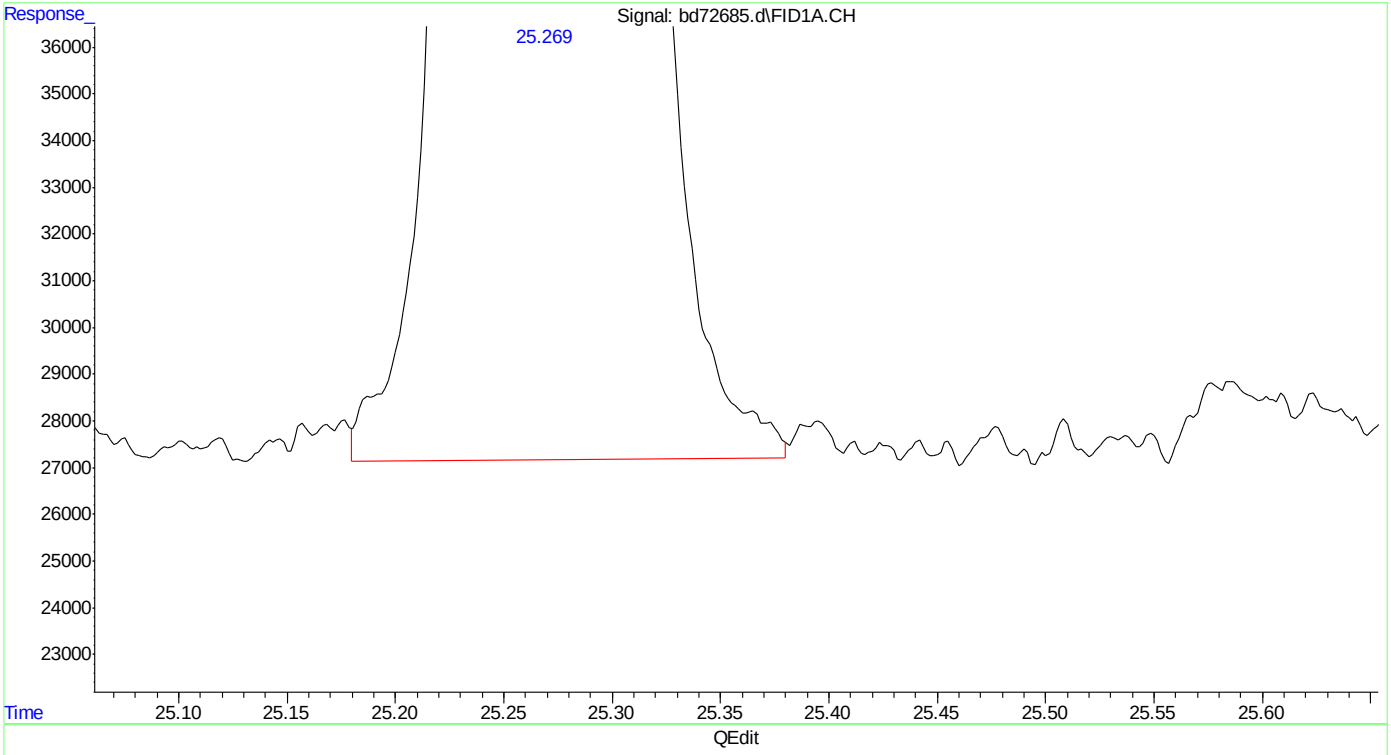
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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) 1,3,5-trimethylbenzene (t)
25.269min 10.261 ppb m
response 9795606

(+) = Expected Retention Time

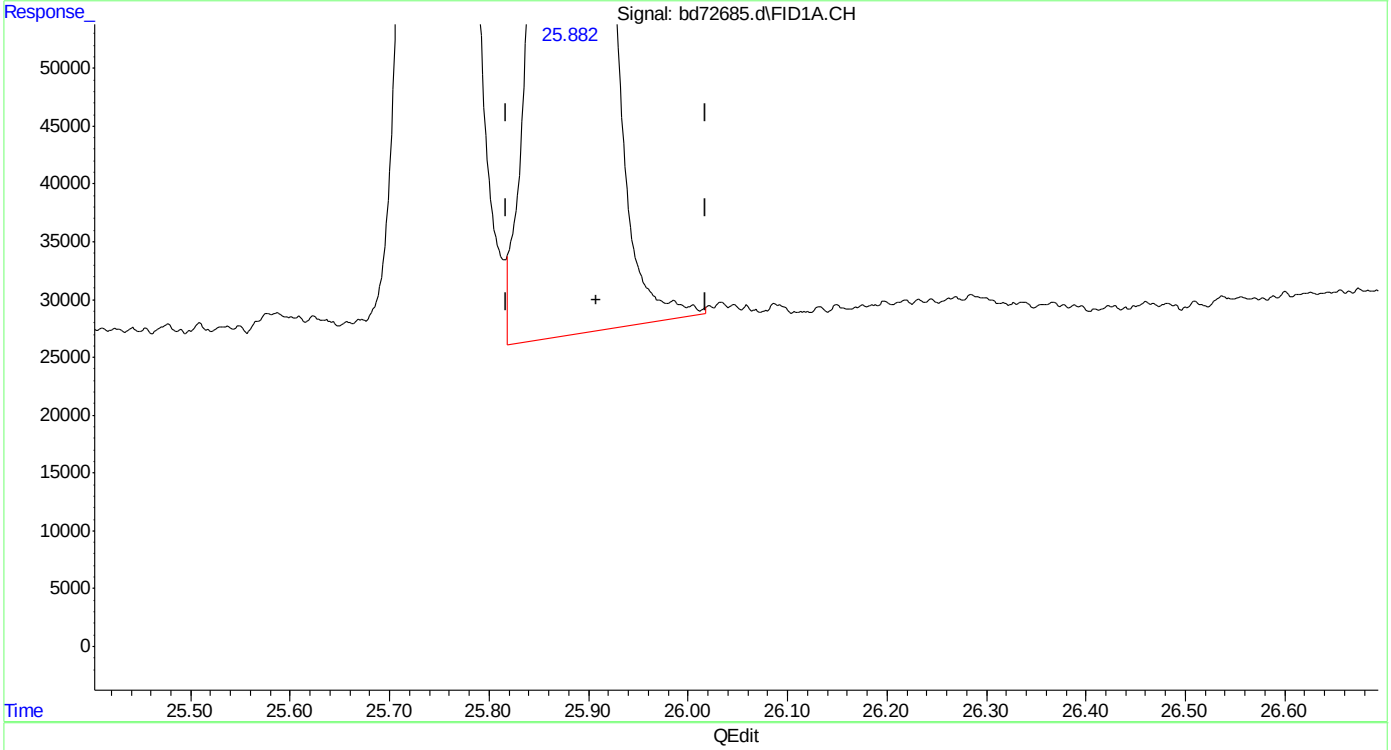
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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) butylcyclohexane (h)
25.908min 10.734 ppb
response 9402228

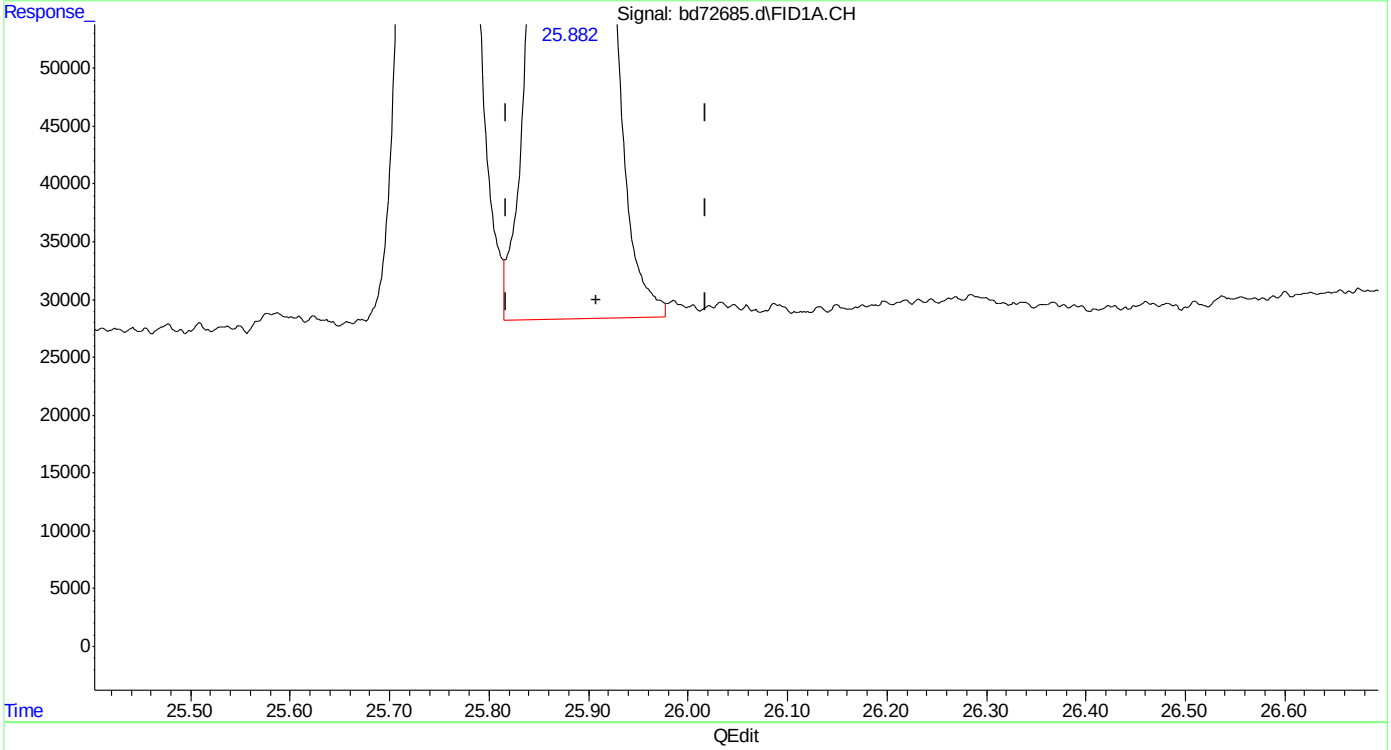
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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) butylcyclohexane (h)
25.908min 10.586 ppb m
response 9272961

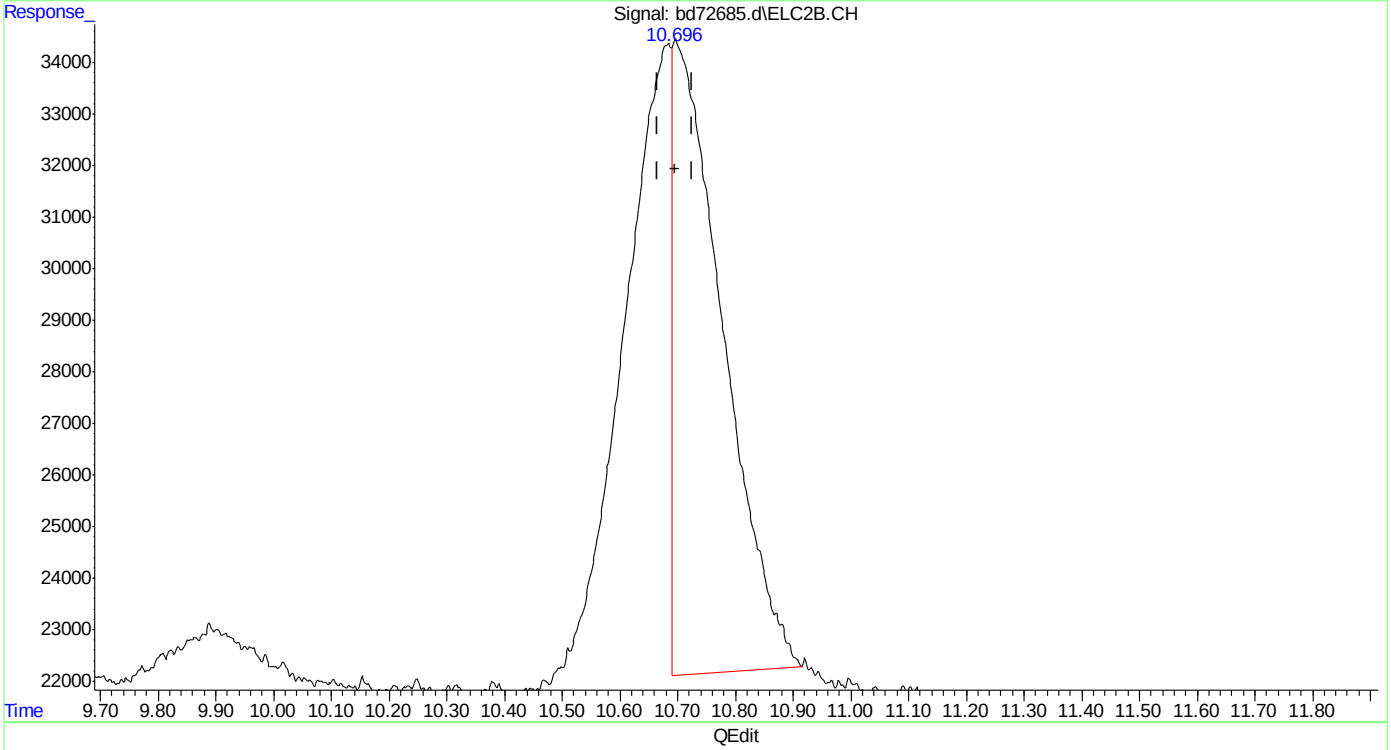
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
10.696min 4.730 ppb
response 748697

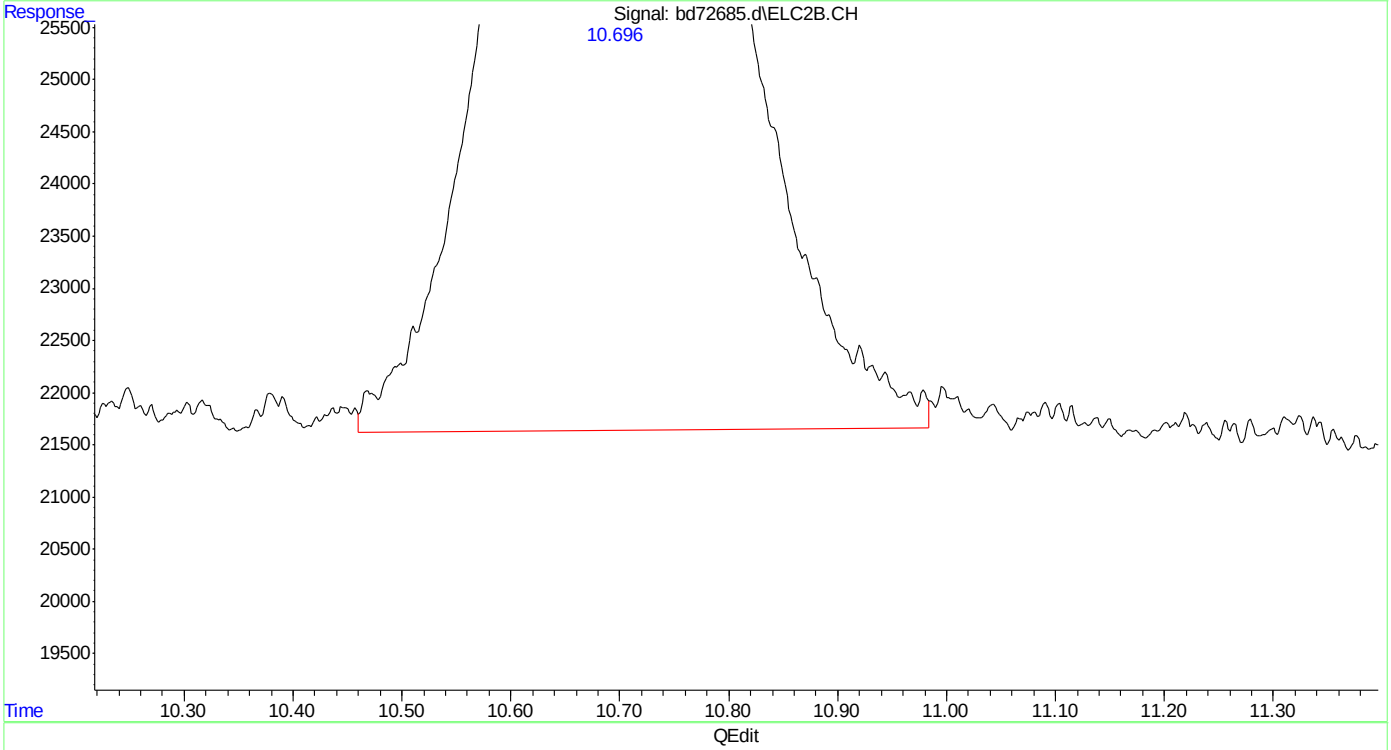
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
10.696min 9.932 ppb m
response 1572288

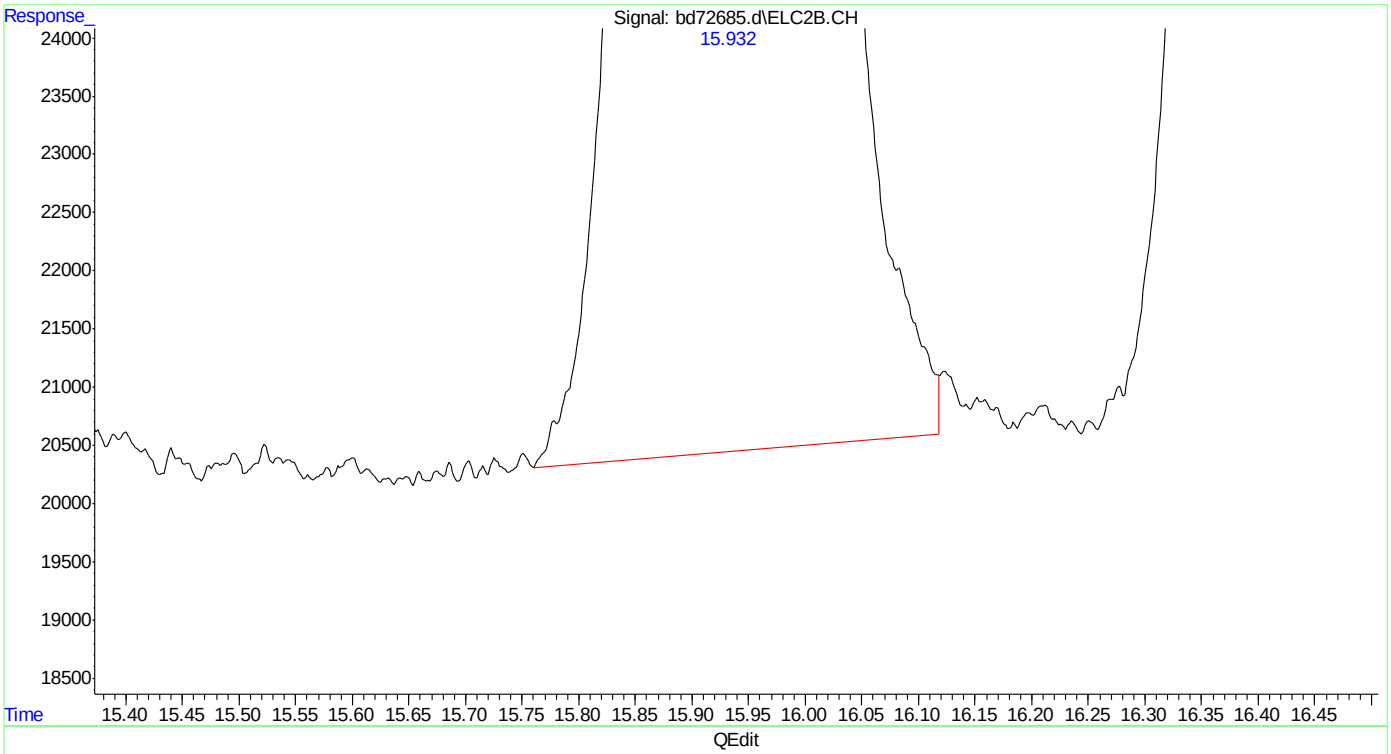
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:01 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
15.932min 9.656 ppb
response 4569131

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:06 2016

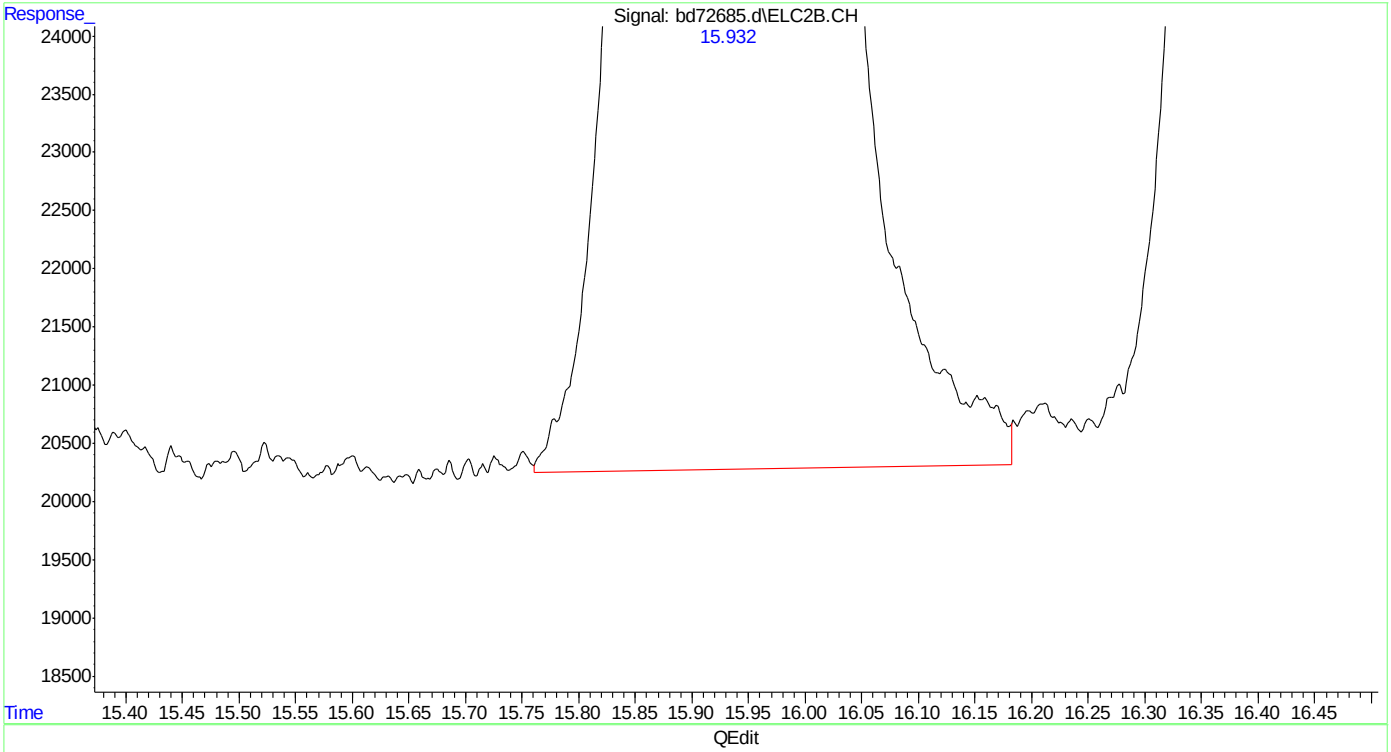
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
15.932min 9.782 ppb m
response 4628504

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:12 2016

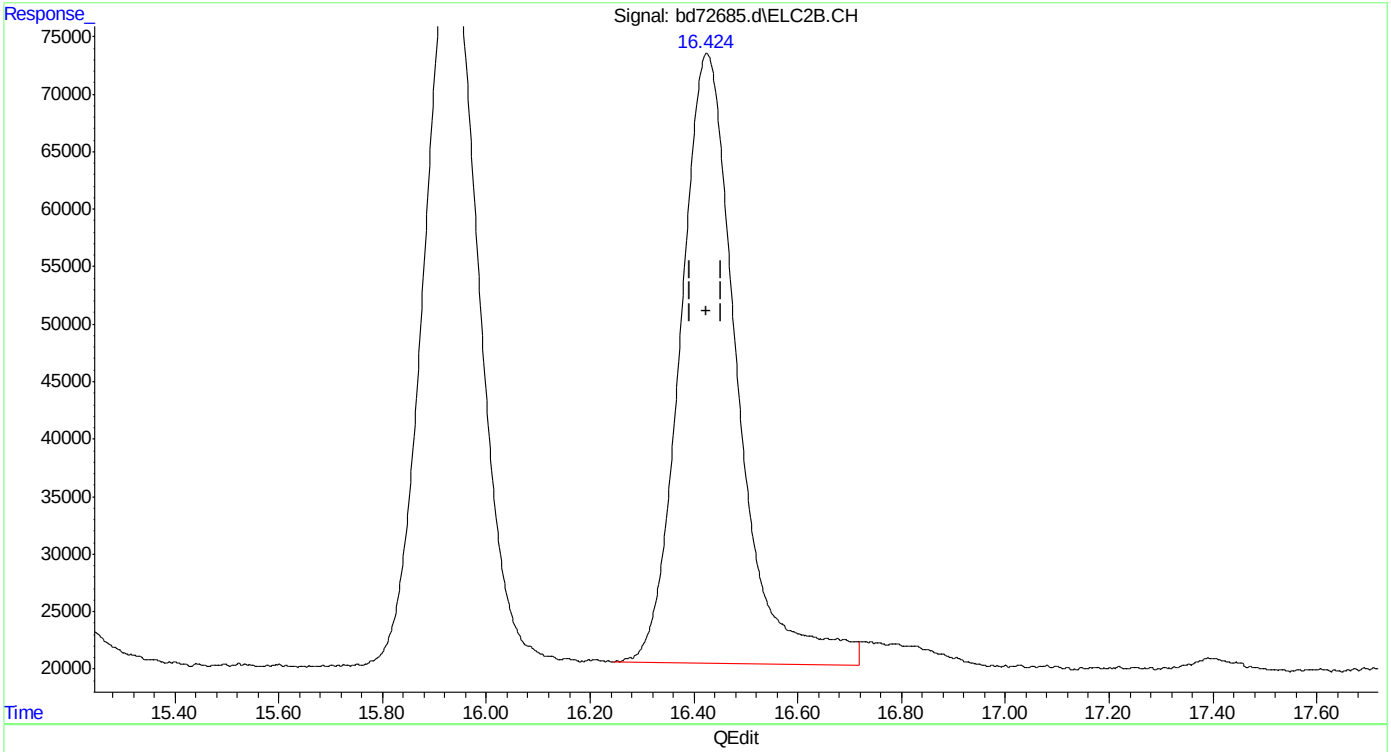
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
16.425min 11.598 ppb
response 4046516

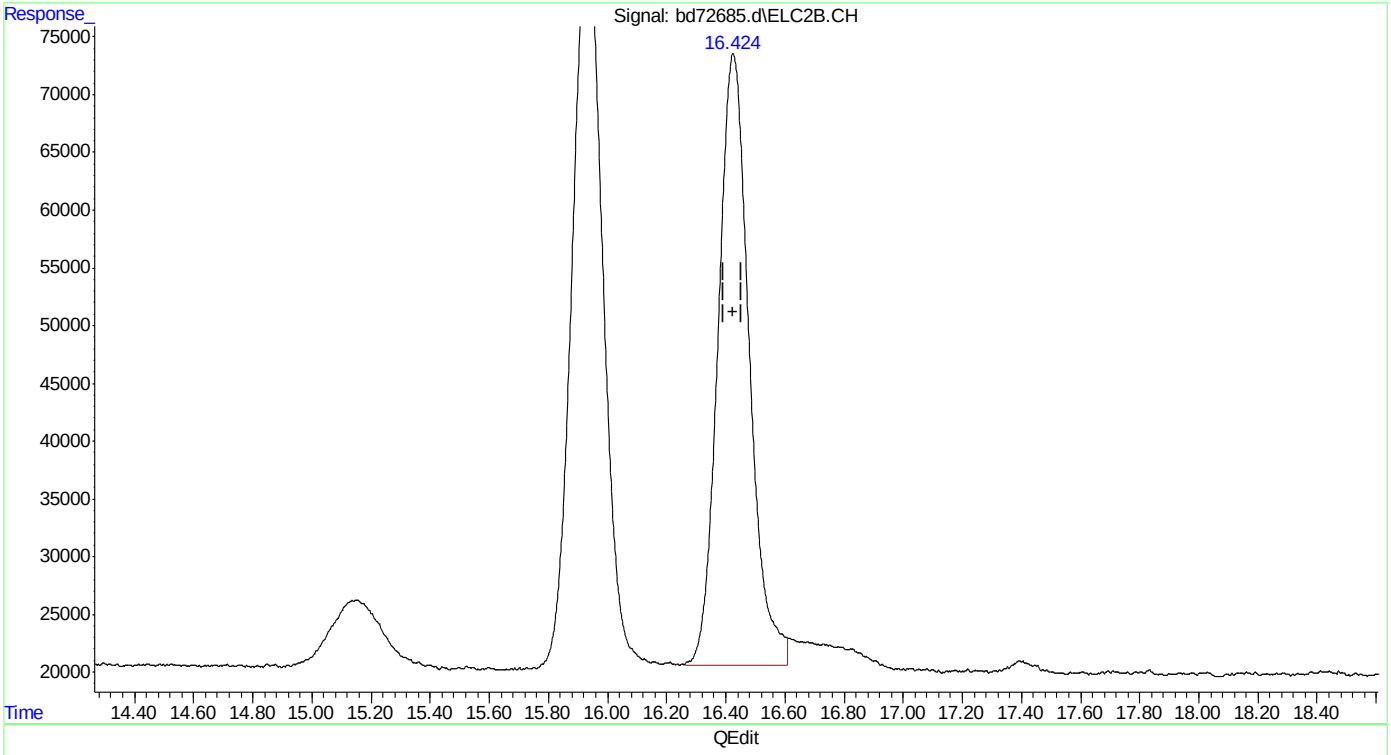
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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)
16.424min 11.091 ppb m
response 3869749

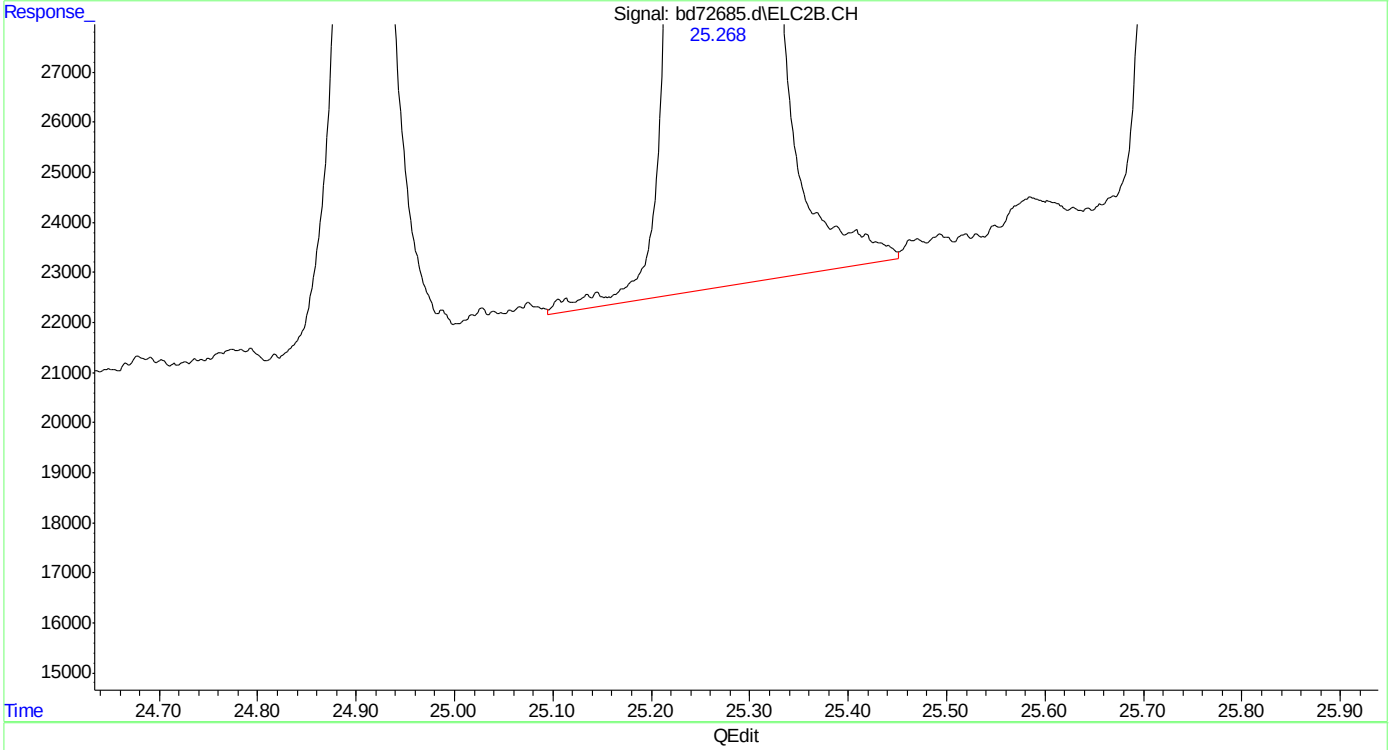
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.227 ppb
response 6637163

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:49 2016 Page: 1

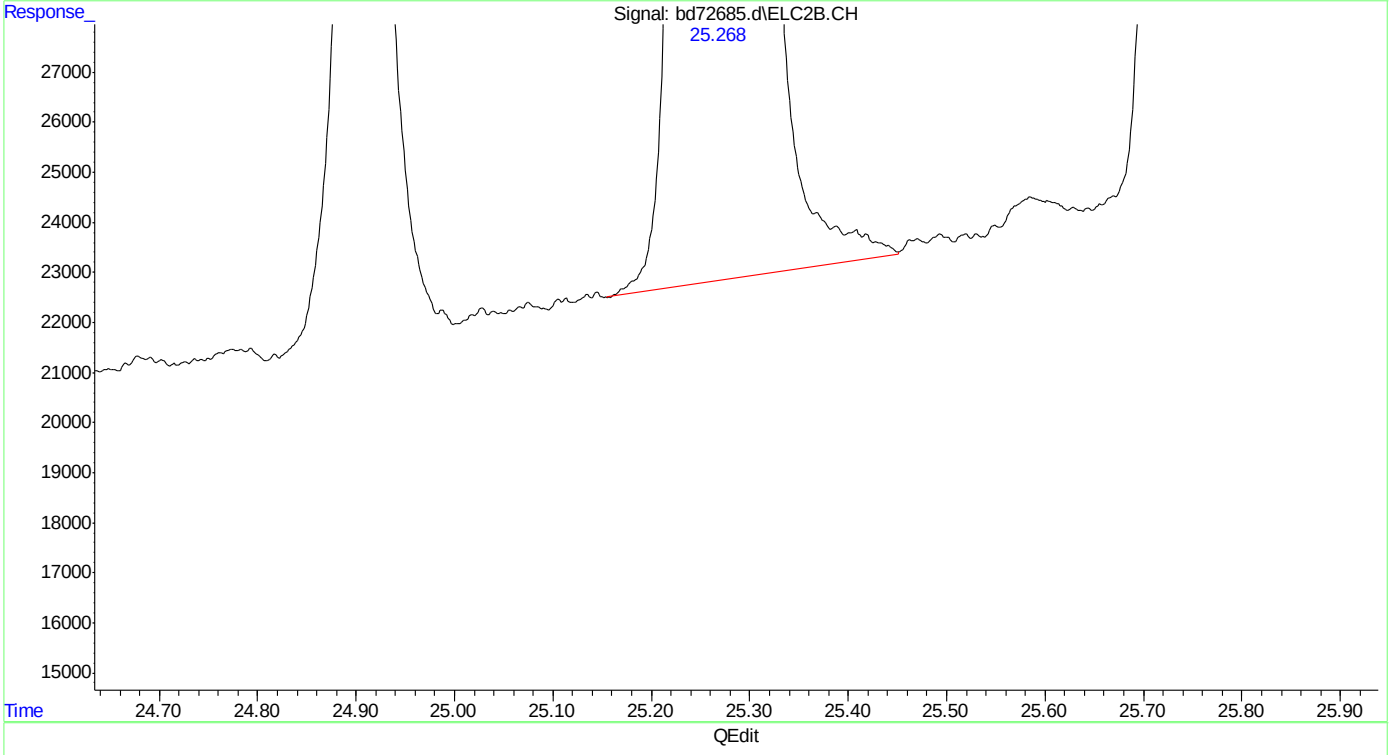
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.179 ppb m
response 6606232

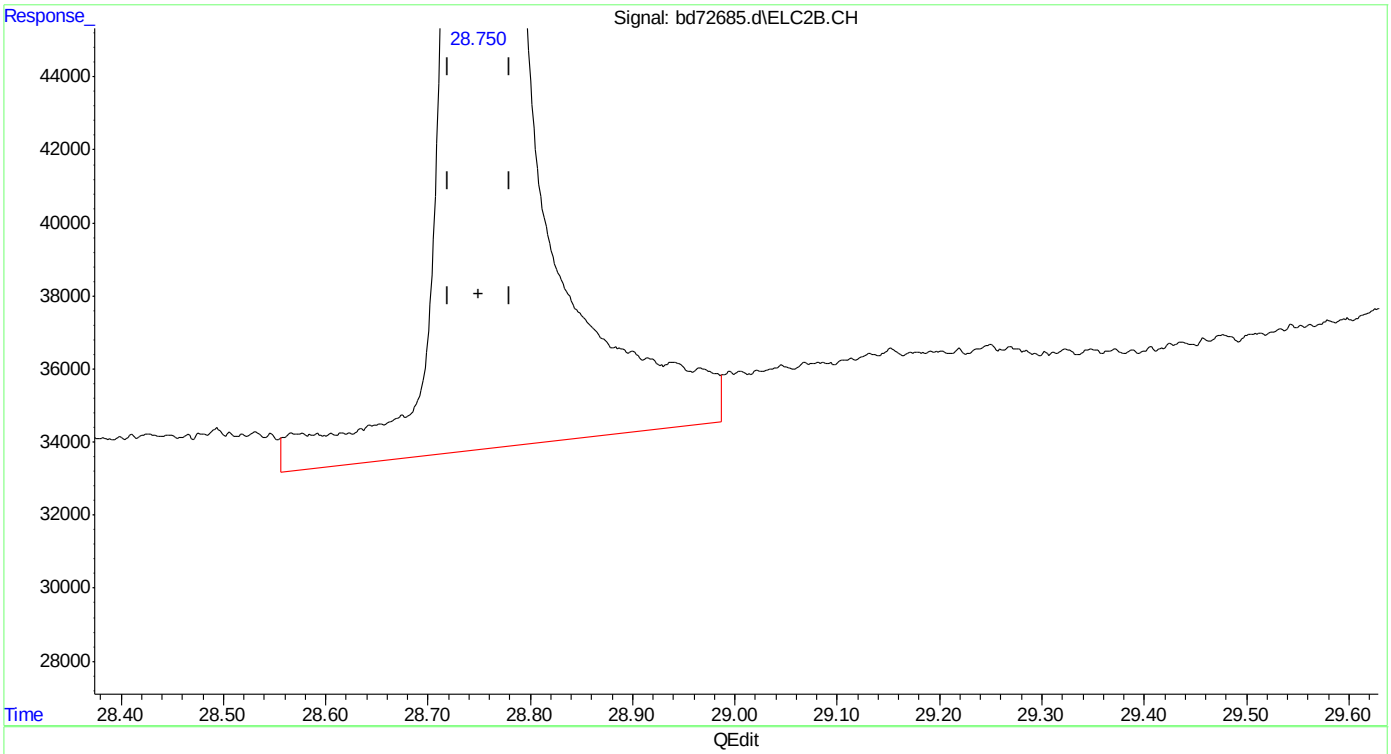
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:55 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
28.751min 9.263 ppb
response 3113386

(+) = Expected Retention Time

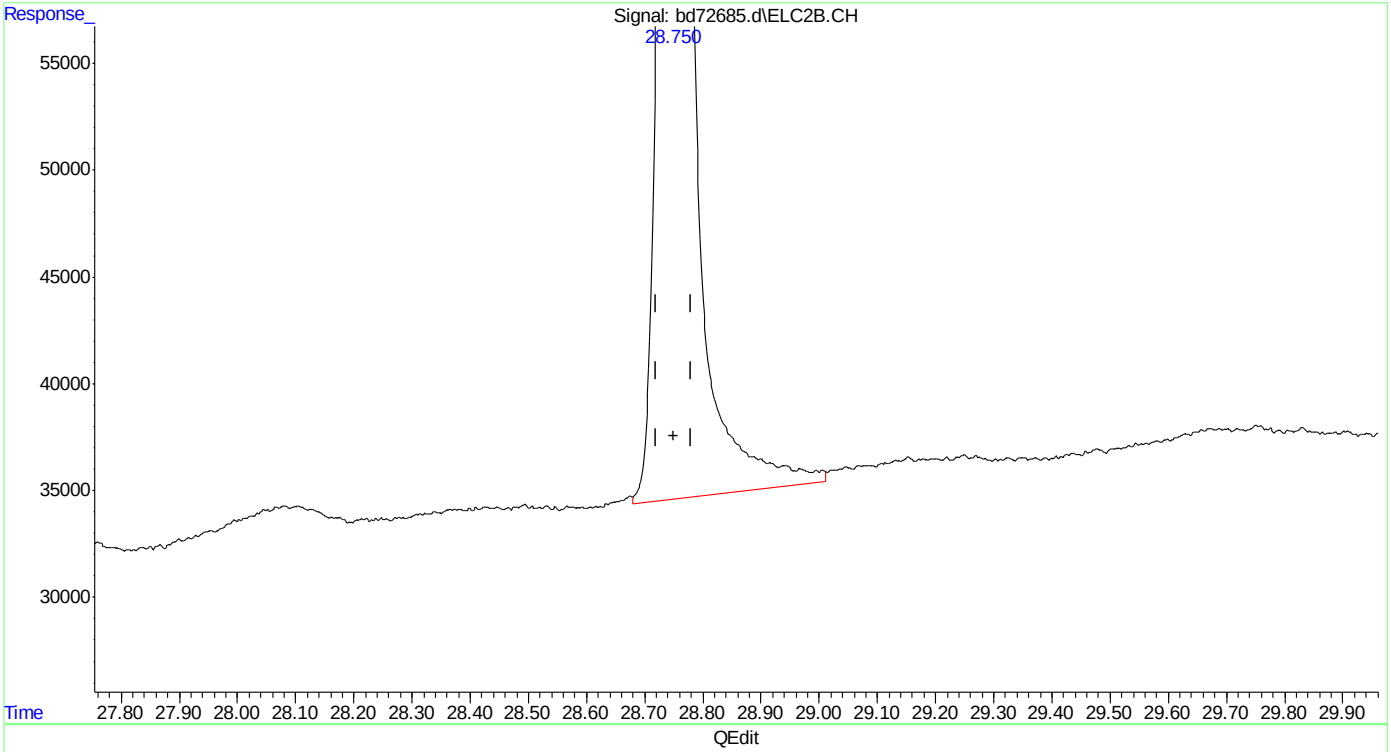
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 11:29:24 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:28:13 2016
Response via : Initial 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
28.750min 8.644 ppb m
response 2905228

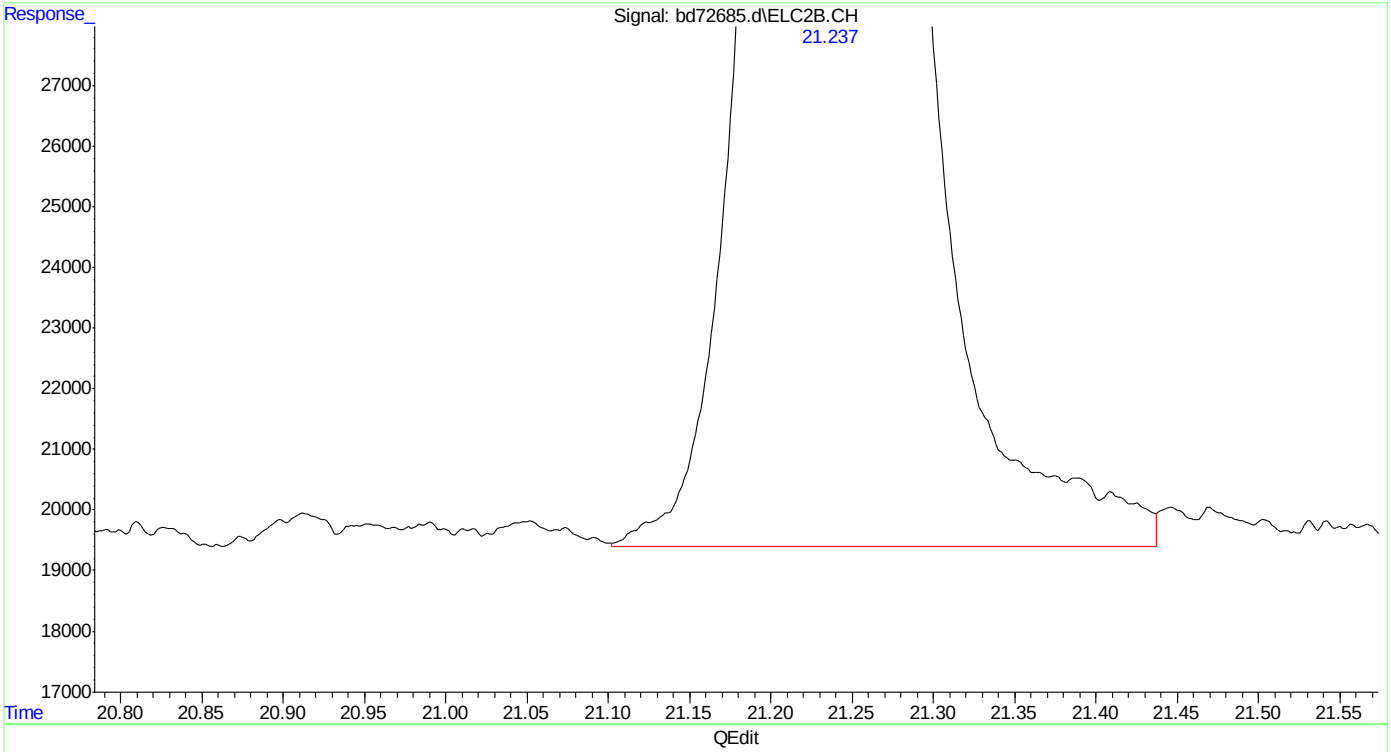
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:33:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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)
21.238min 10.735 ppb
response 2212042

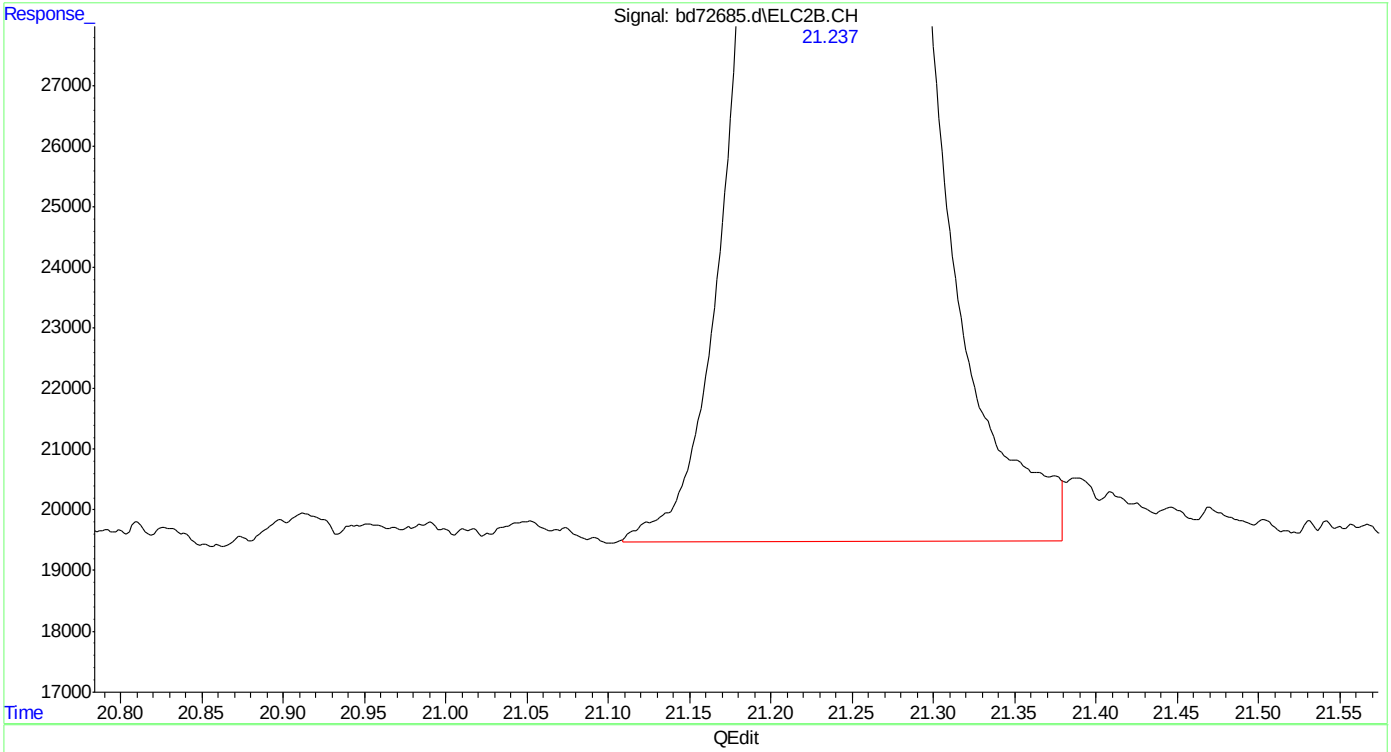
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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)
21.237min 10.531 ppb m
response 2170174

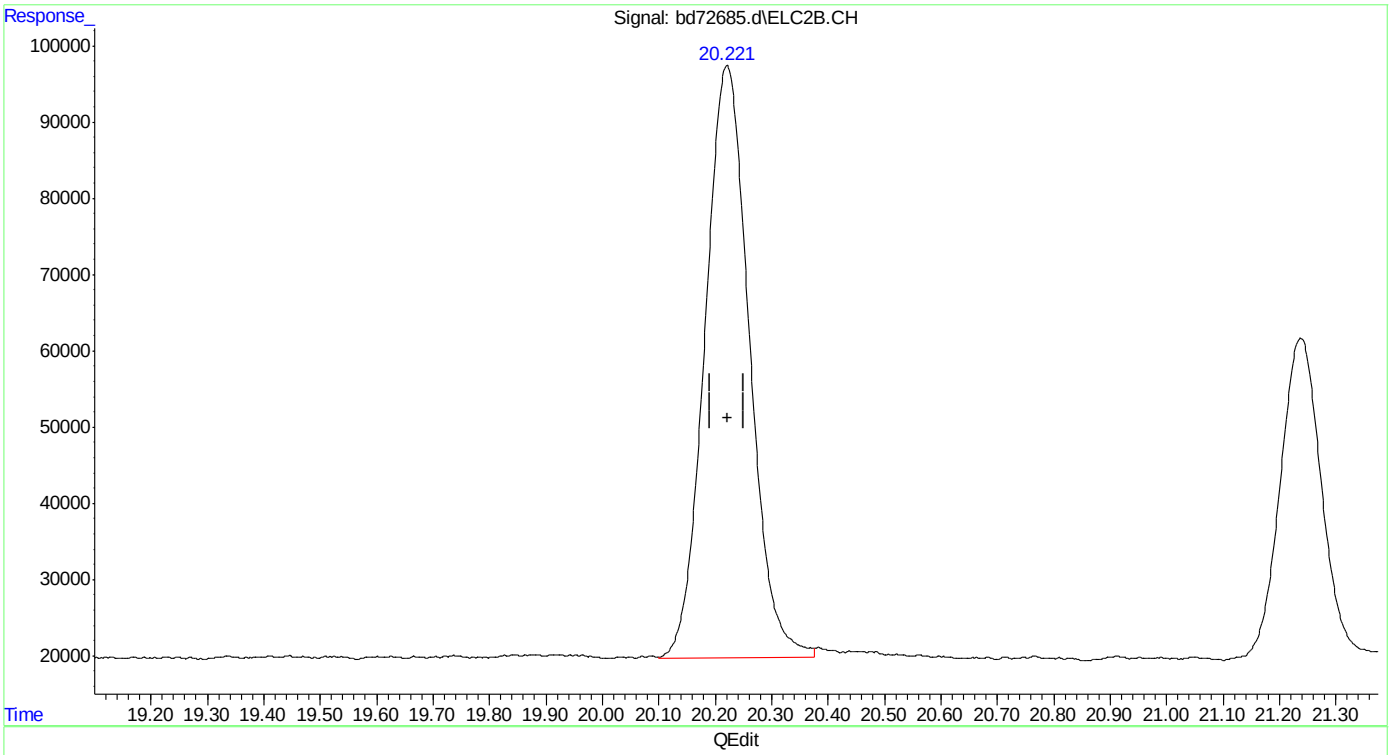
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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
20.221min 9.801 ppb m
response 4236945

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:20 2016

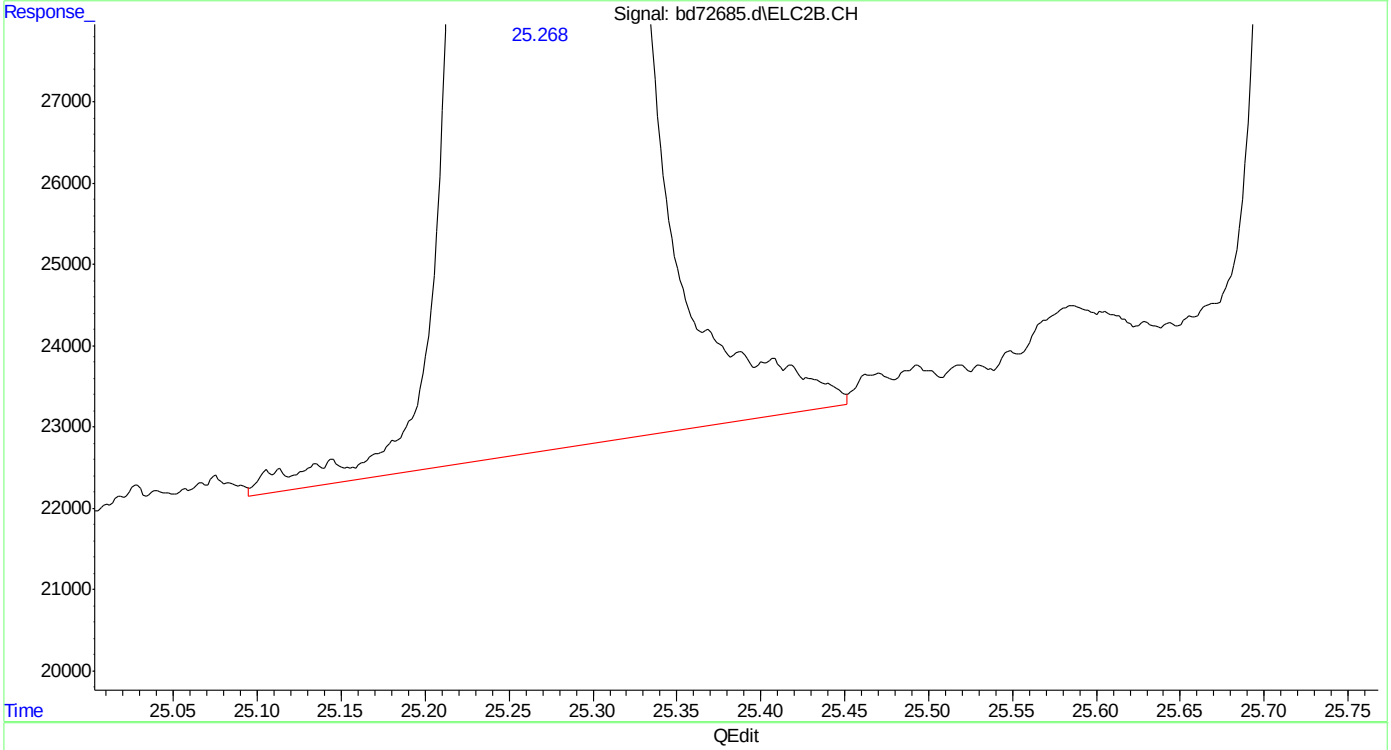
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.269min 10.123 ppb
response 6637163

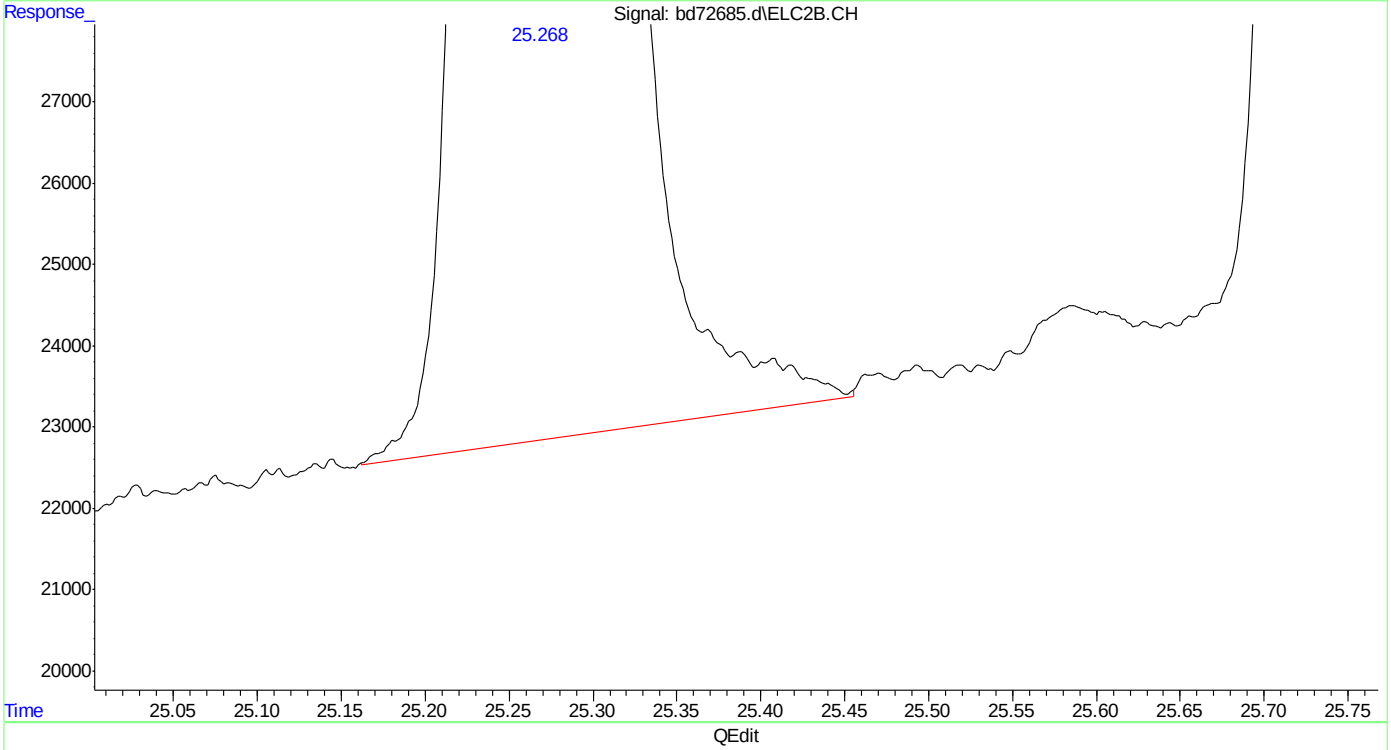
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
25.268min 10.076 ppb m
response 6605929

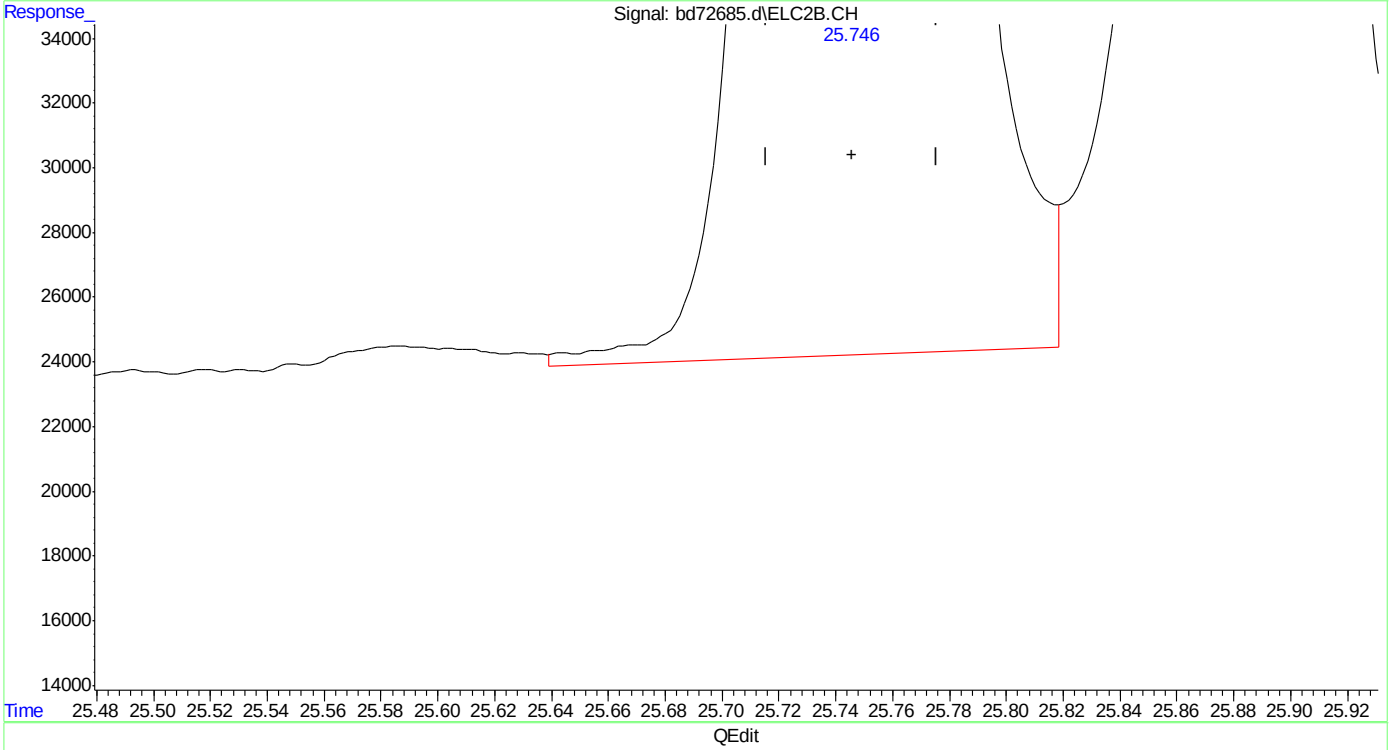
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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
25.747min 9.849 ppb
response 4534824

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:39 2016

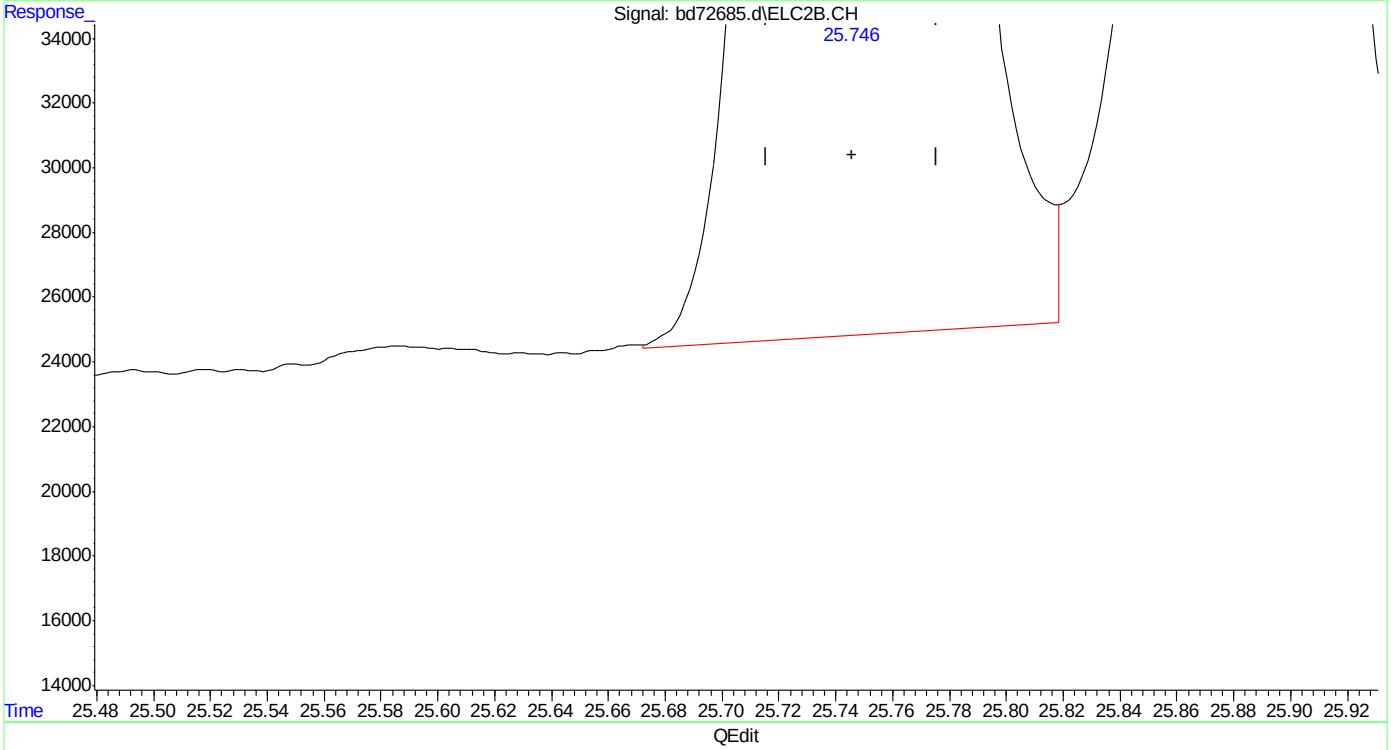
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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
25.746min 9.727 ppb m
response 4478298

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:46 2016

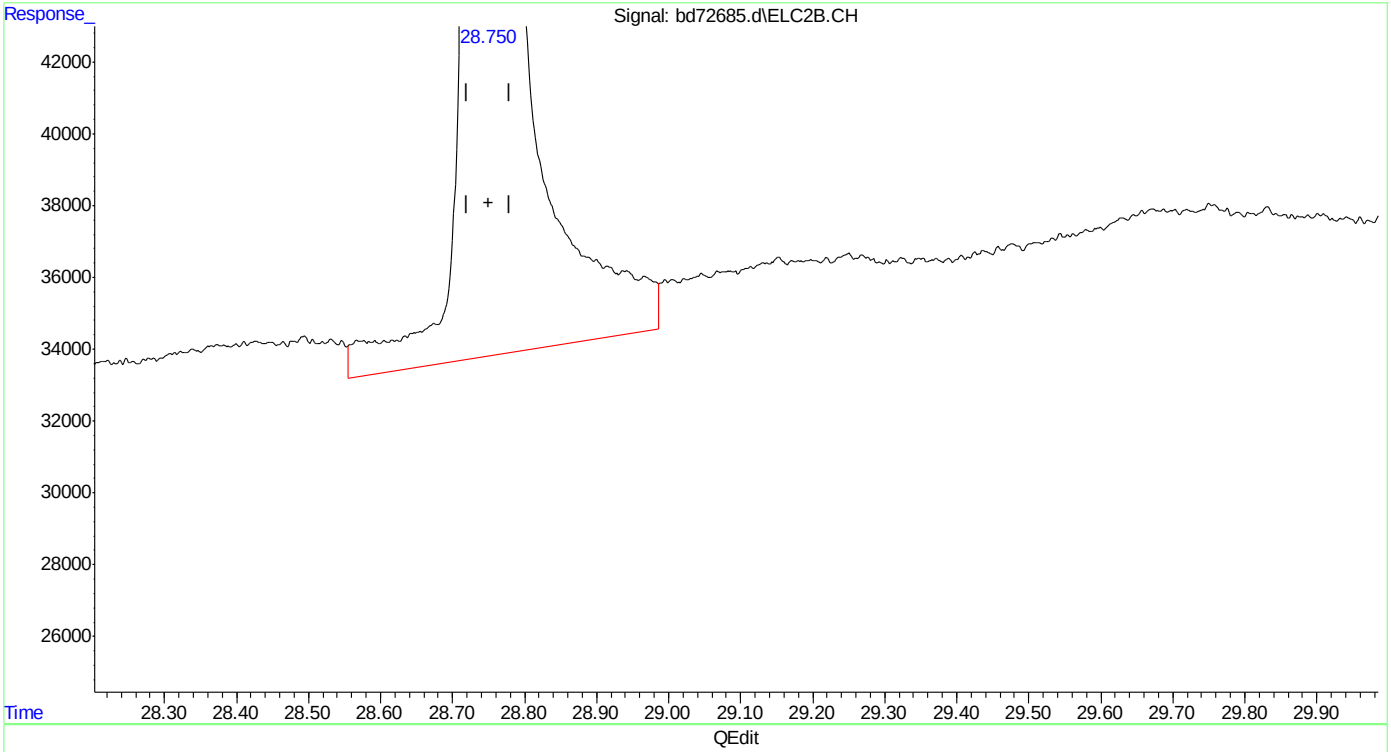
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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
28.751min 10.162 ppb
response 3113386

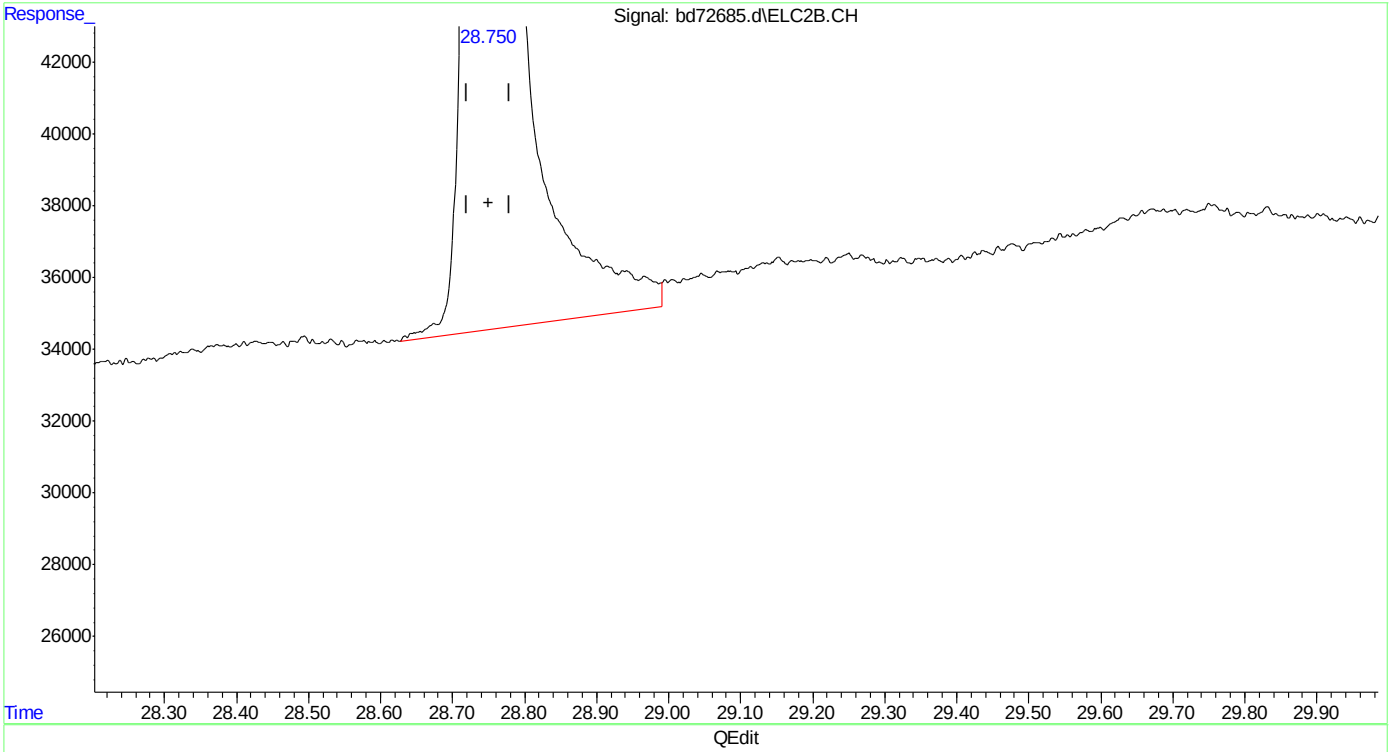
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72685.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 10:44:19
Operator : tonyf
Sample : ic3752-10
Misc : gc25978,gbd3572,,,,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: Feb 19 12:02:13 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial 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
28.750min 9.536 ppb m
response 2921622

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:58 2016

SGS ACCUTEST MC45799

BD72686.D

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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	16.422	3688118	5.021 ppb	m
Spiked Amount 50.000		Recovery =	10.04%	
9) s 2,3,4-trifluorotoluene	21.237	2891402	5.093 ppb	m
Spiked Amount 50.000		Recovery =	10.19%	
25) s fluorobenzene #2	16.427	1839983	5.187 ppb	
Spiked Amount 50.000		Recovery =	10.37%	
27) s 2,3,4-trifluorotoluen...	21.239	1093855	5.317 ppb	
Spiked Amount 50.000		Recovery =	10.63%	
Target Compounds				
1) h rt5.5-7	7.470	2723524	4.815 ppb	m
2) h rt7/10	9.920	3084292	4.809 ppb	m
3) mtbe	10.703f	1367206	4.694 ppb	m
4) h rt10/13	15.200	3432971	4.660 ppb	m
5) benzene	15.928	3586407	4.622 ppb	m
8) toluene	20.220	3670681	4.710 ppb	m
11) h rt20/25	22.840	4228618	5.237 ppb	m
13) ethylbenzene	23.172	3725793	4.742 ppb	
14) m,p-xylene	23.307	8126886	9.936 ppb	
15) o-xylene	24.029	3958698	4.801 ppb	
16) h decane	24.930	4869338	5.664 ppb	m
17) t 1,3,5-trimethylbenzene	25.270	4911450	5.095 ppb	
18) 1,2,4-trimethylbenzene	25.747	4259354	4.888 ppb	m
19) h butylcyclohexane	25.908	4968205	5.418 ppb	m
20) naphthalene	28.751	1655353	3.869 ppb	m
23) mtbe #2	10.684	768191	4.929 ppb	m
24) benzene #2	15.932	2284991	4.901 ppb	m
26) toluene #2	20.221	2057654	4.798 ppb	
28) ethylbenzene #2	23.171	1919162	4.902 ppb	
29) m,p-xylene #2	23.307	4695443	9.846 ppb	
30) o-xylene #2	24.029	2037337	4.986 ppb	
31) t 1,3,5-trimethylbenzen...	25.270	3360107	5.125 ppb	
32) 1,2,4-trimethylbenzen...	25.747	2257211	4.900 ppb	m
33) naphthalene #2	28.752	1234487	4.022 ppb	
34) h c9-c10 arom as 1,2,4-tmb	25.777	2258039	4.914 ppb	m

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

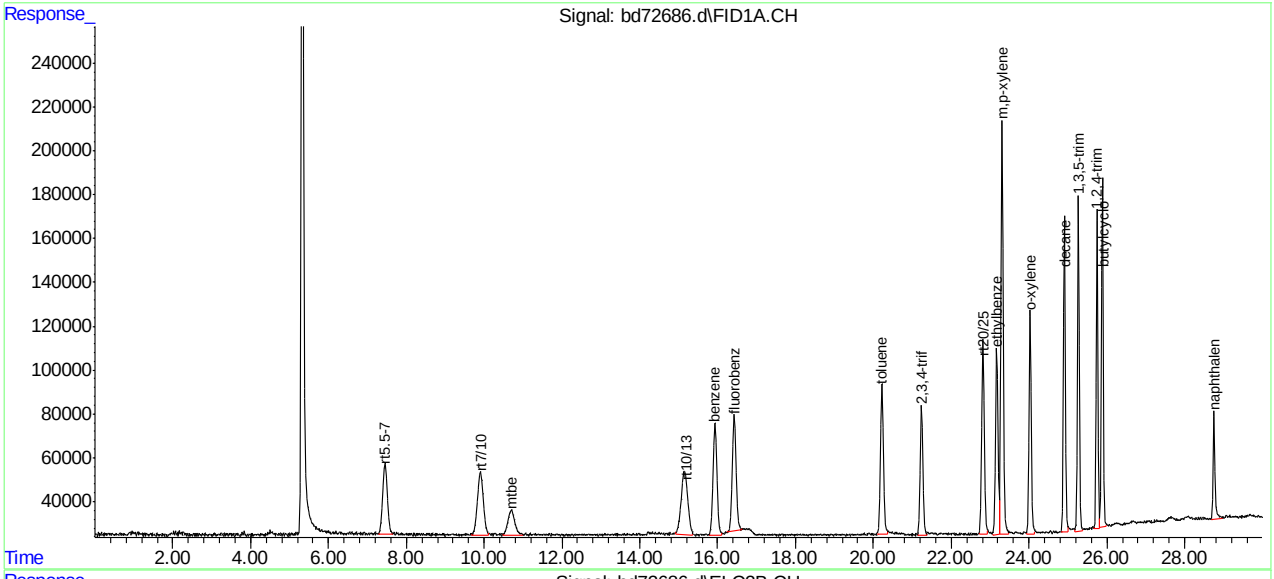
SGS ACCUTEST MC45799

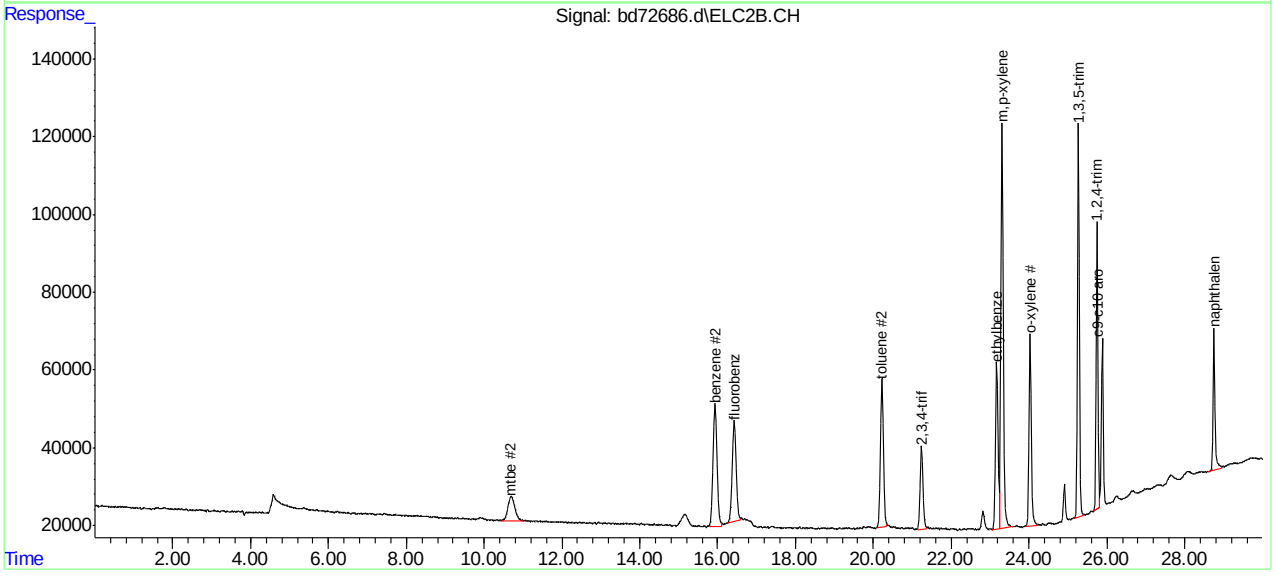
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3572-5 (Sig #1); ic3752-5 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

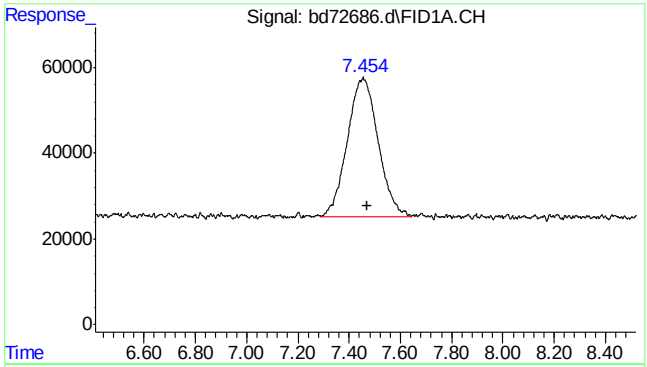
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



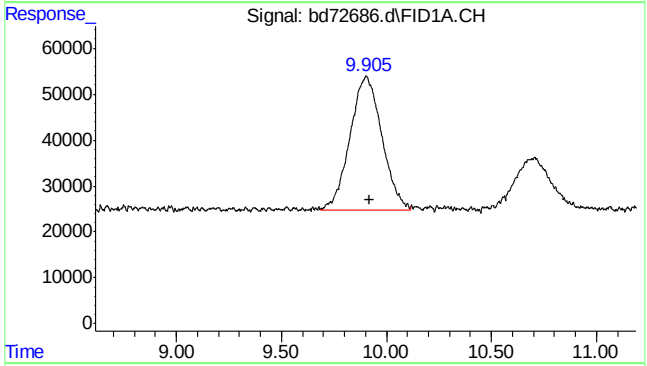


SGS ACCUTEST MC45799



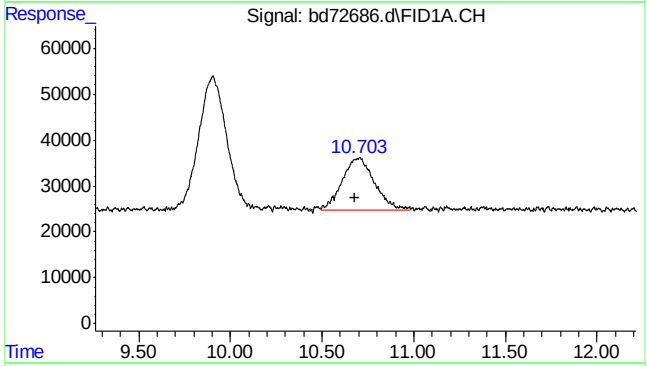
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2723524
Conc: 4.82 ppb m



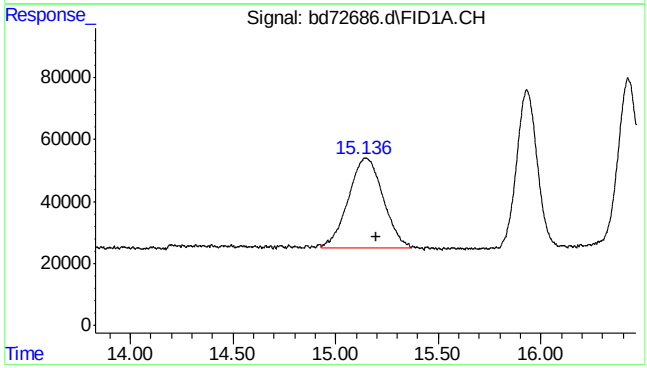
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3084292
Conc: 4.81 ppb m



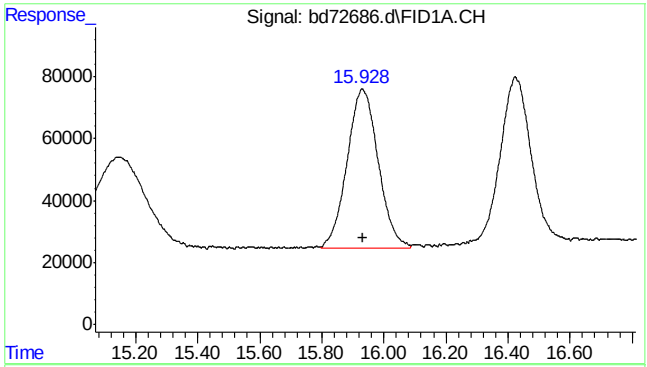
#3 mtbe

R.T.: 10.703 min
Delta R.T.: 0.020 min
Response: 1367206
Conc: 4.69 ppb m



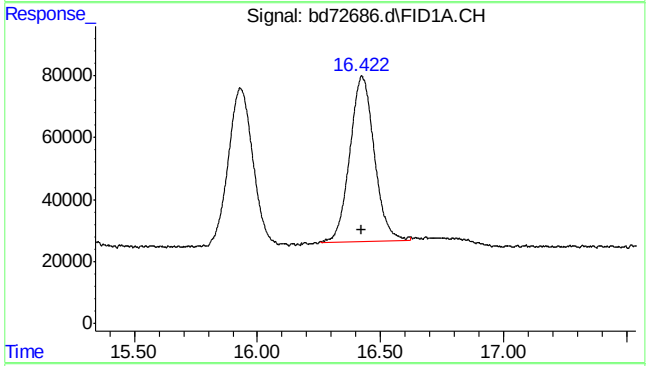
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3432971
Conc: 4.66 ppb m



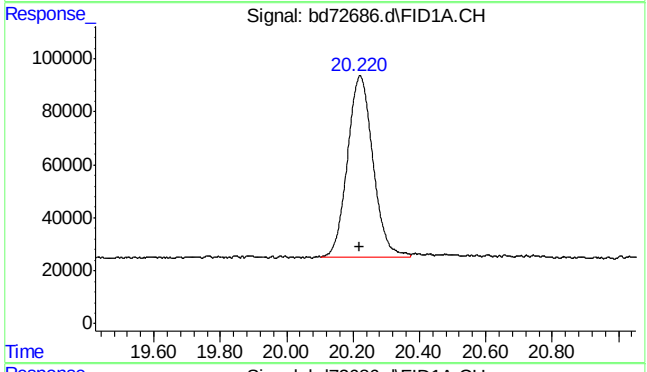
#5 benzene

R.T.: 15.928 min
Delta R.T.: -0.005 min
Response: 3586407
Conc: 4.62 ppb m



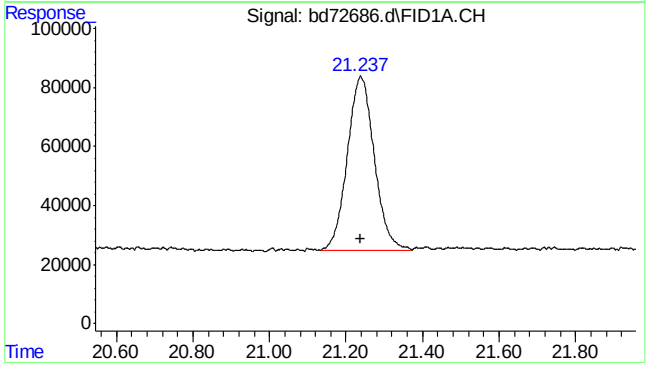
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 3688118
Conc: 5.02 ppb m



#8 toluene

R.T.: 20.220 min
Delta R.T.: 0.000 min
Response: 3670681
Conc: 4.71 ppb m



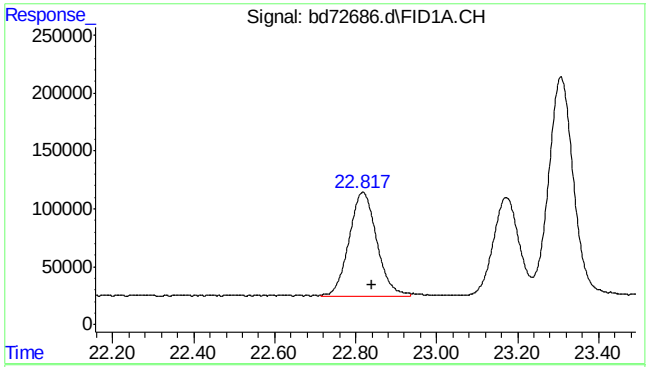
#9 2,3,4-trifluorotoluene

R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 2891402
Conc: 5.09 ppb m

7.5.14

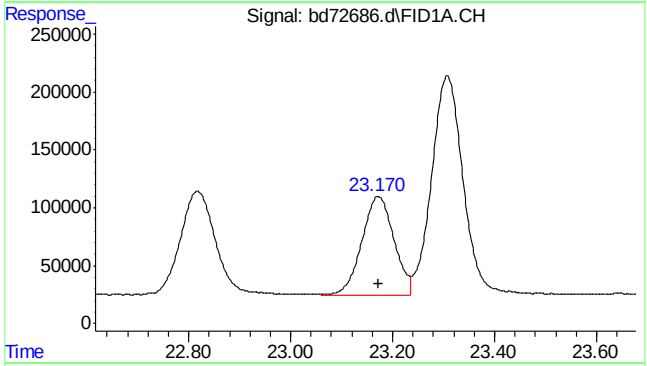
7

SGS ACCUTEST MC45799



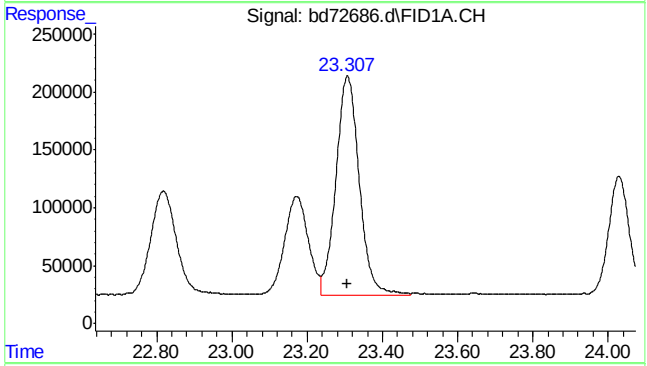
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 4228618
Conc: 5.24 ppb m



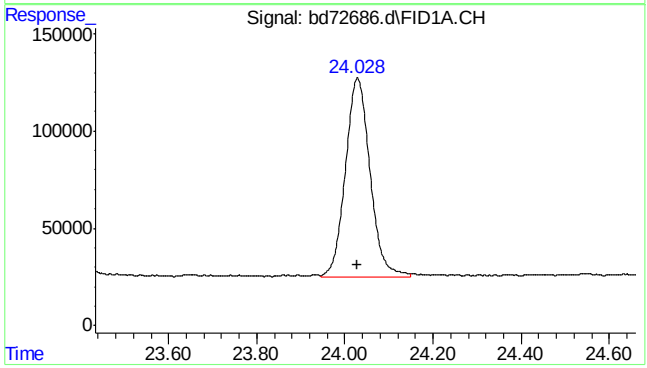
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3725793
Conc: 4.74 ppb



#14 m,p-xylene

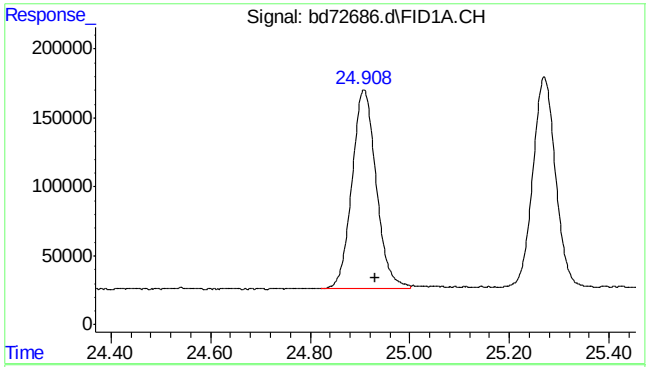
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 8126886
Conc: 9.94 ppb



#15 o-xylene

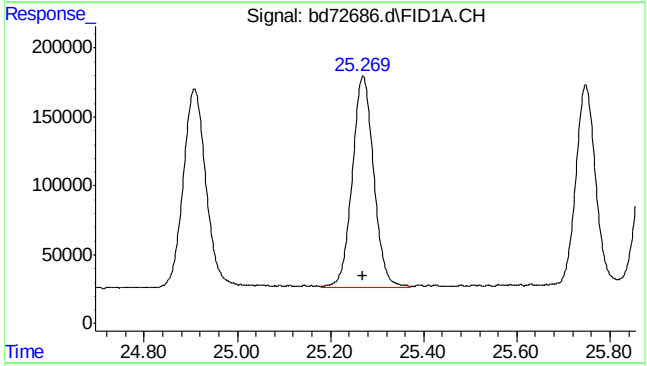
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 3958698
Conc: 4.80 ppb

SGS ACCUTEST MC45799



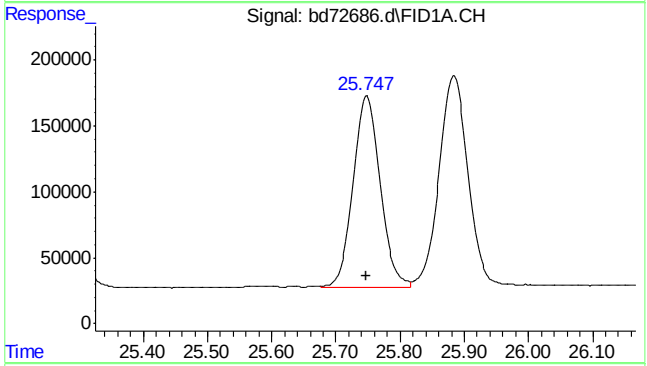
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 4869338
Conc: 5.66 ppb m



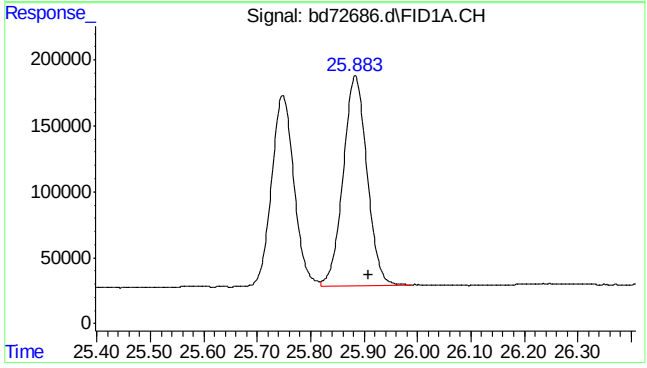
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.000 min
Response: 4911450
Conc: 5.10 ppb



#18 1,2,4-trimethylbenzene

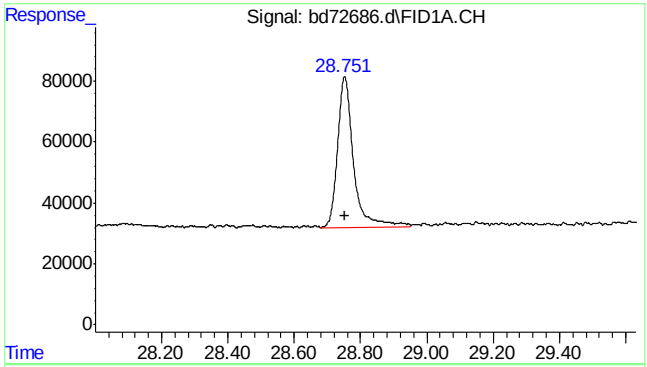
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 4259354
Conc: 4.89 ppb m



#19 butylcyclohexane

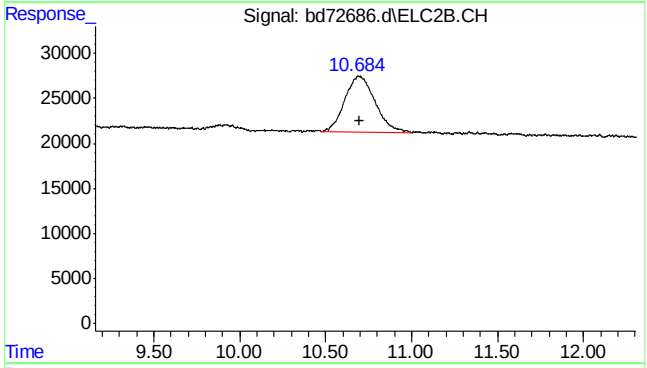
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 4968205
Conc: 5.42 ppb m

SGS ACCUTEST MC45799



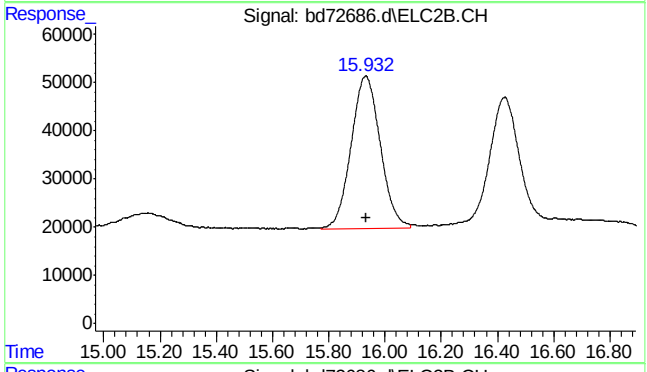
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 1655353
Conc: 3.87 ppb m



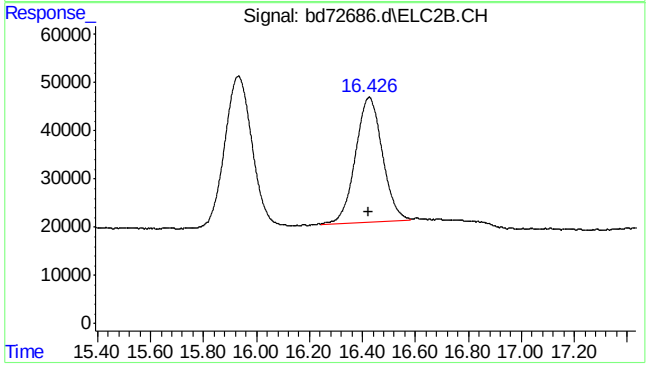
#23 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.011 min
Response: 768191
Conc: 4.93 ppb m



#24 benzene #2

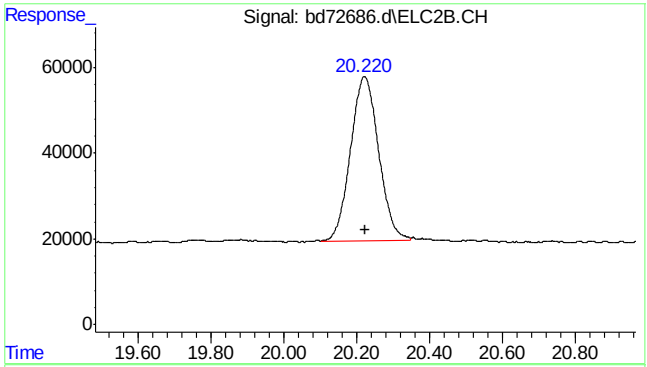
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 2284991
Conc: 4.90 ppb m



#25 fluorobenzene #2

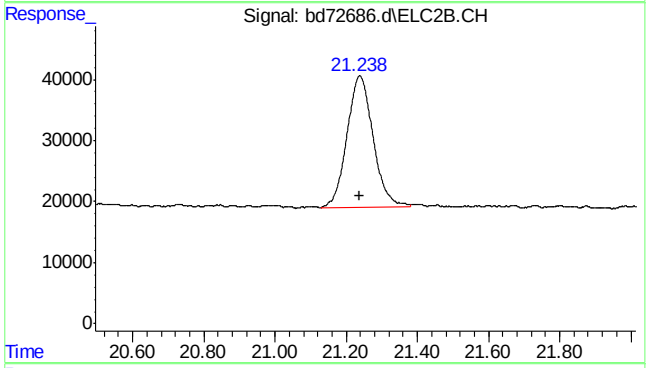
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 1839983
Conc: 5.19 ppb

SGS ACCUTEST MC45799



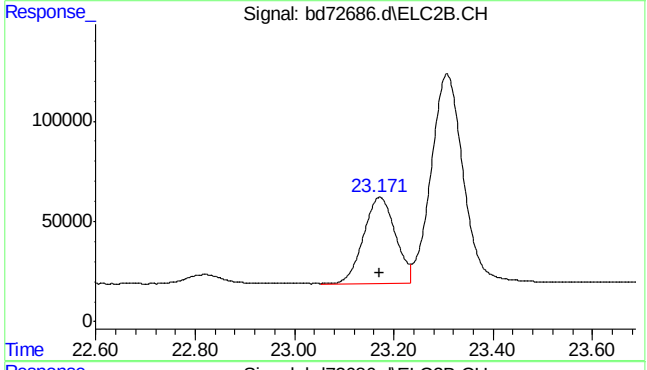
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 2057654
Conc: 4.80 ppb



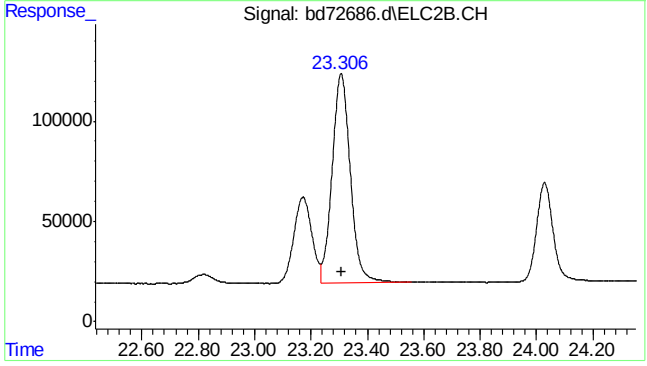
#27 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 1093855
Conc: 5.32 ppb



#28 ethylbenzene #2

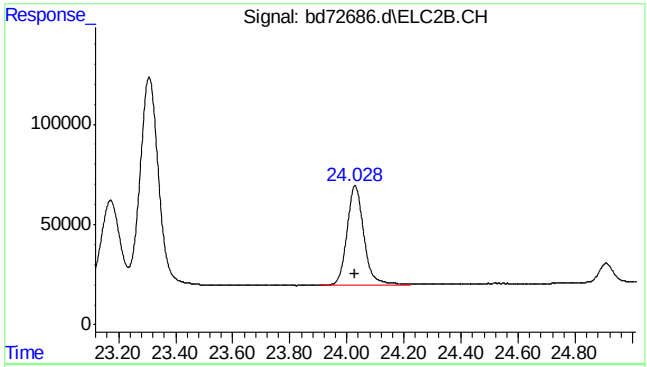
R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 1919162
Conc: 4.90 ppb



#29 m,p-xylene #2

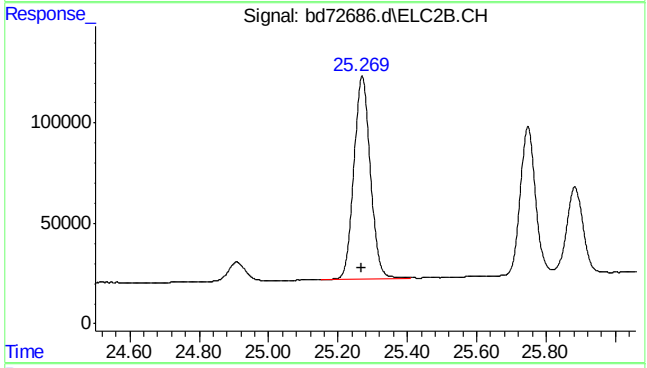
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 4695443
Conc: 9.85 ppb

SGS ACCUTEST MC45799



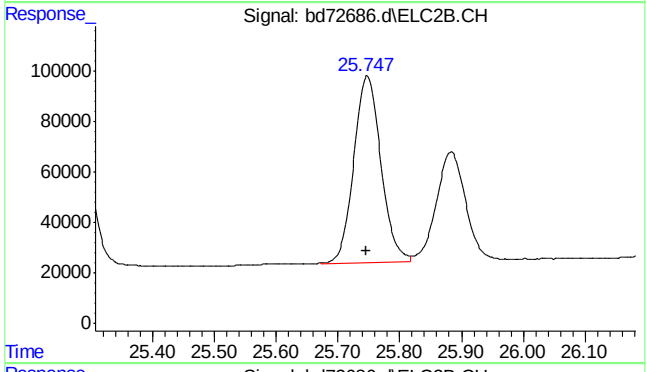
#30 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 2037337
Conc: 4.99 ppb



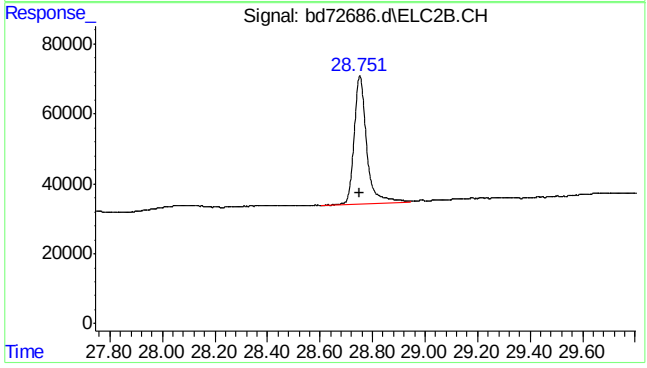
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 3360107
Conc: 5.13 ppb



#32 1,2,4-trimethylbenzene #2

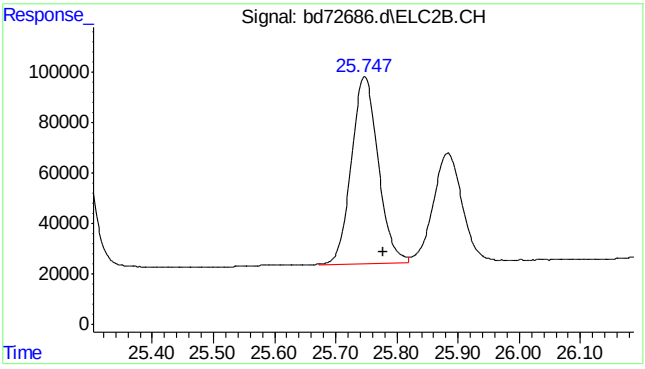
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 2257211
Conc: 4.90 ppb m



#33 naphthalene #2

R.T.: 28.752 min
Delta R.T.: 0.002 min
Response: 1234487
Conc: 4.02 ppb

SGS ACCUTEST MC45799



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	2258039
Conc:	4.91 ppb m

7.5.14

7

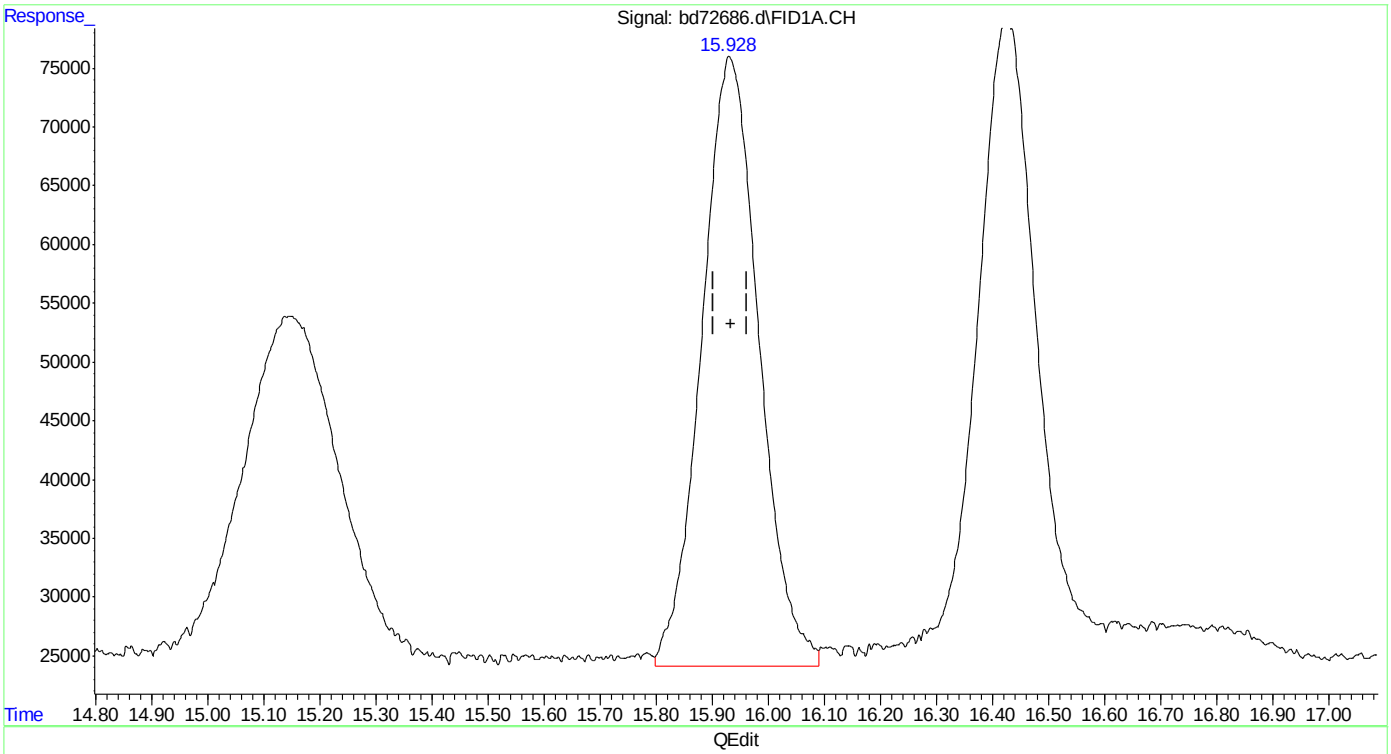
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
15.930min 4.498 ppb
response 3683528

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:33 2016

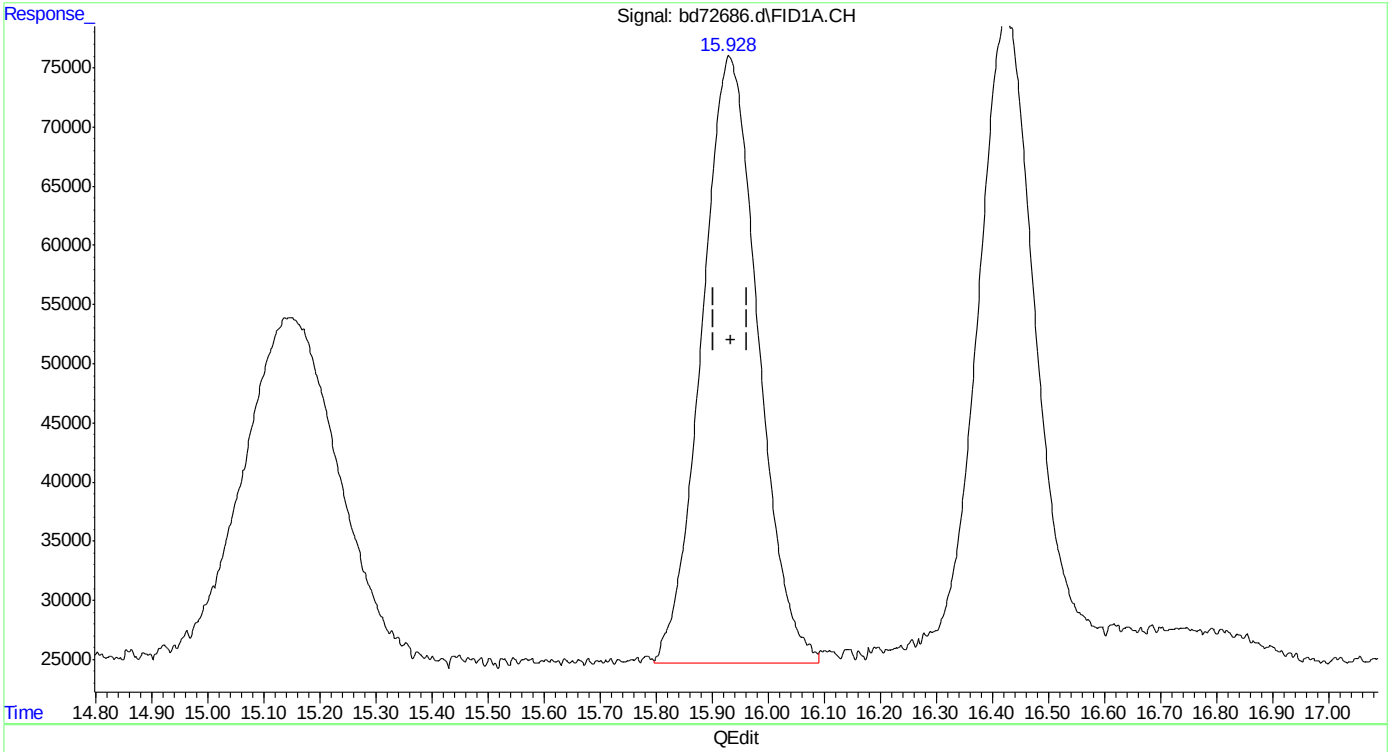
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
15.928min 4.369 ppb m
response 3578099

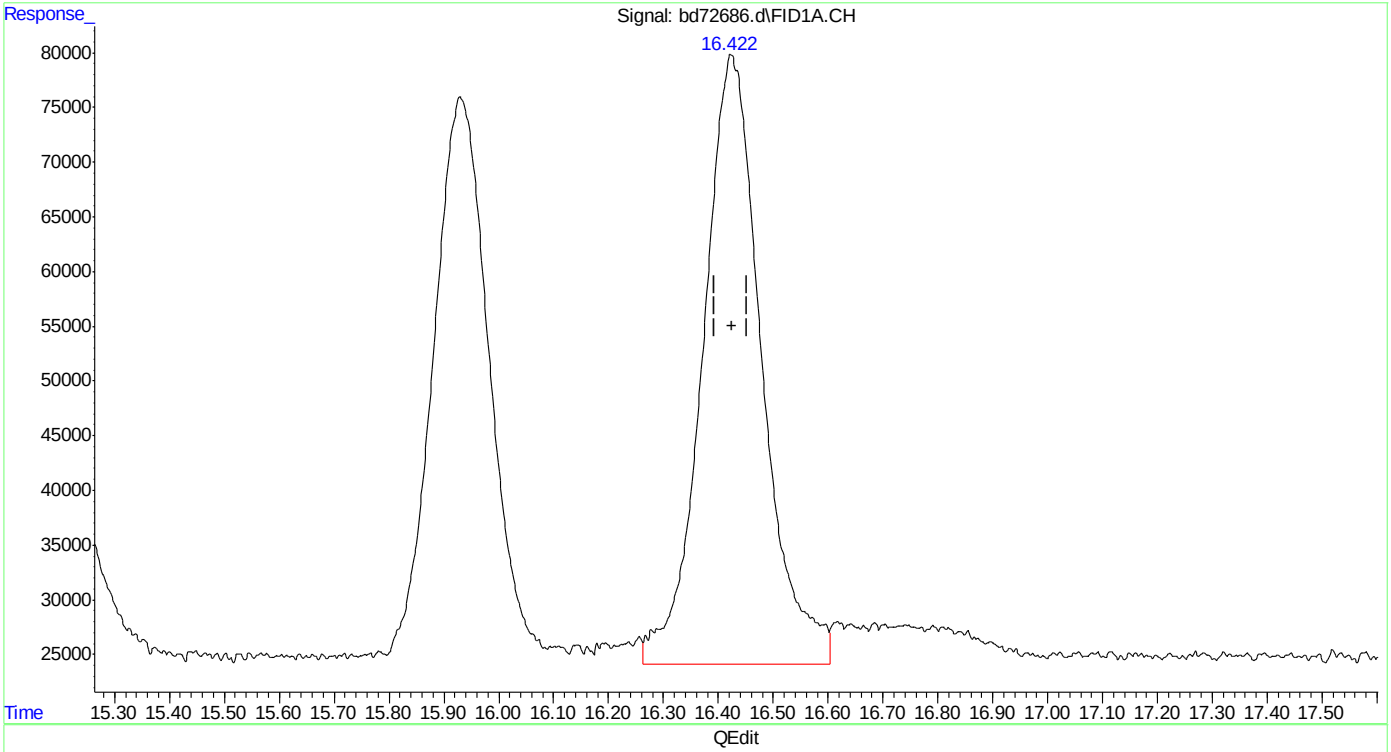
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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)
16.423min 5.686 ppb
response 4152408

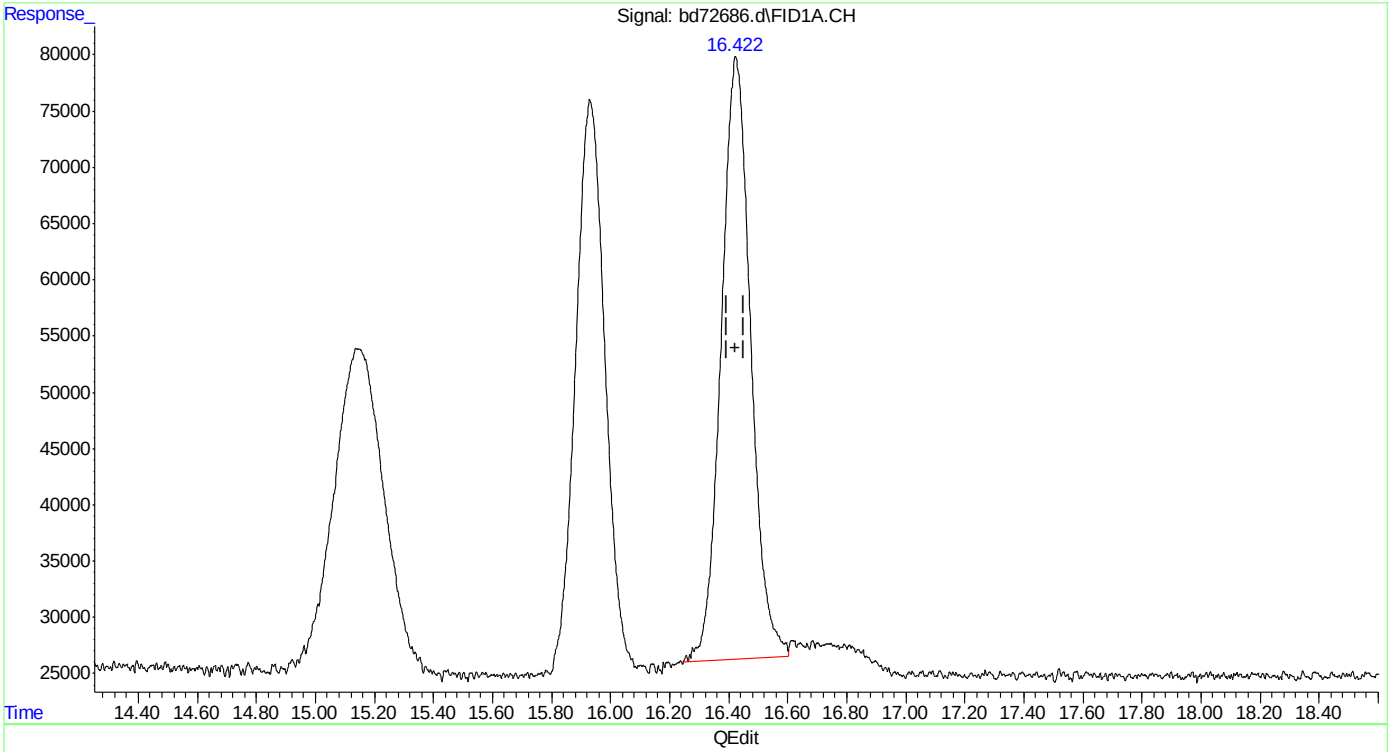
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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)
16.422min 5.089 ppb m
response 3716381

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:58 2016

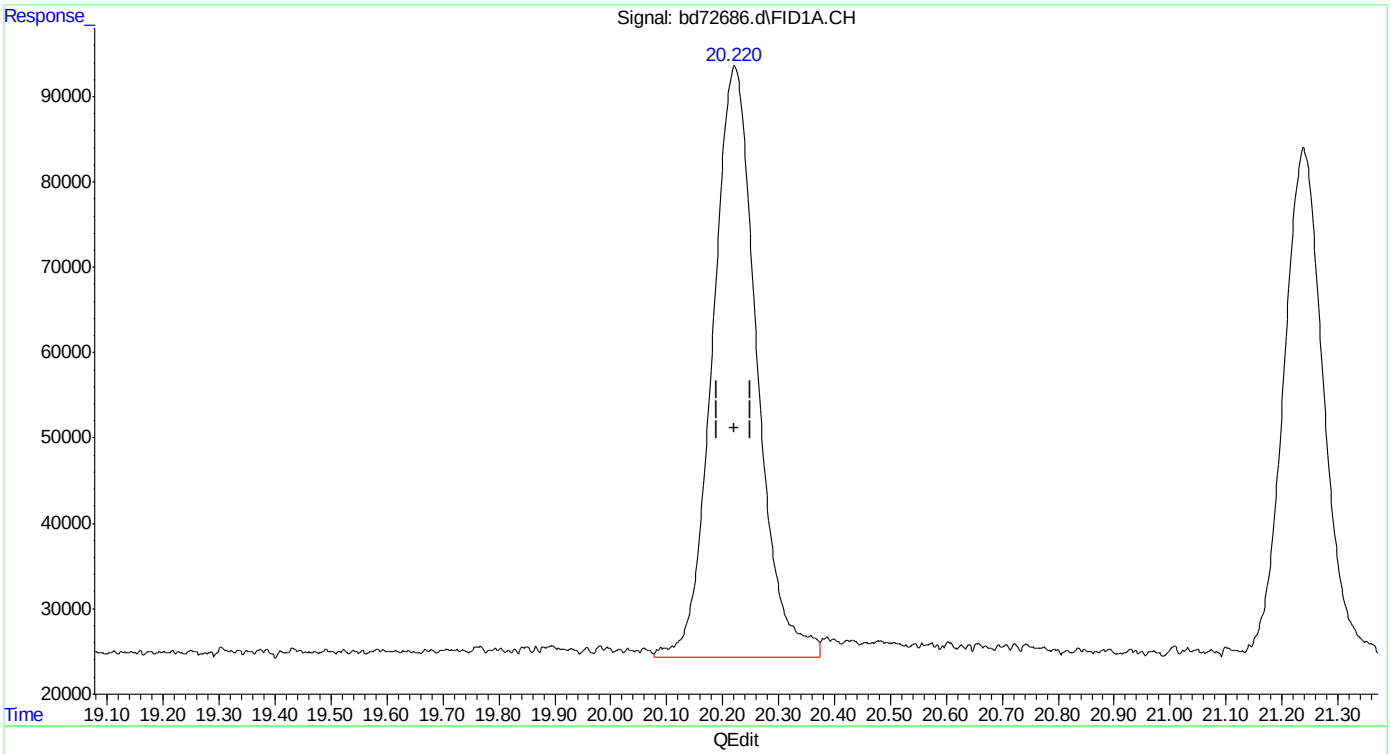
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
20.222min 4.739 ppb
response 3795317

(+) = Expected Retention Time

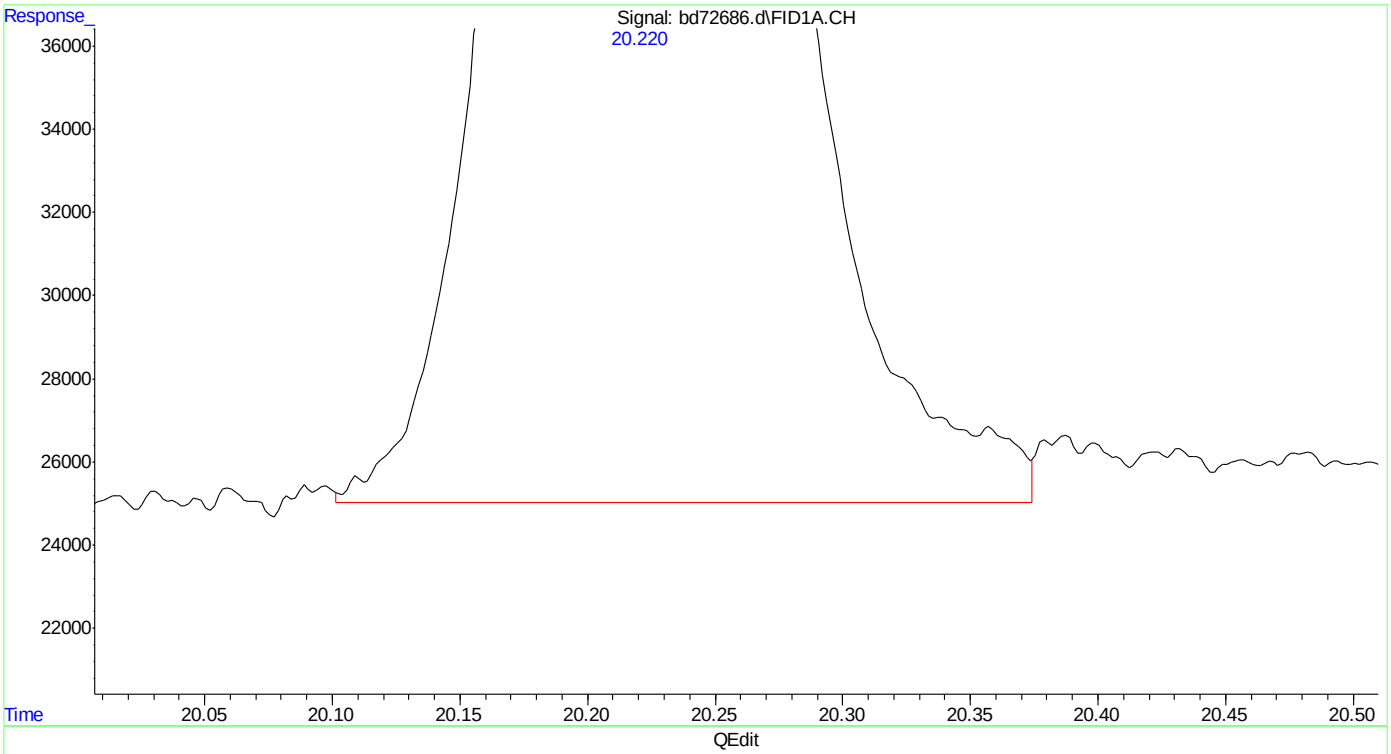
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
20.220min 4.588 ppb m
response 3674356

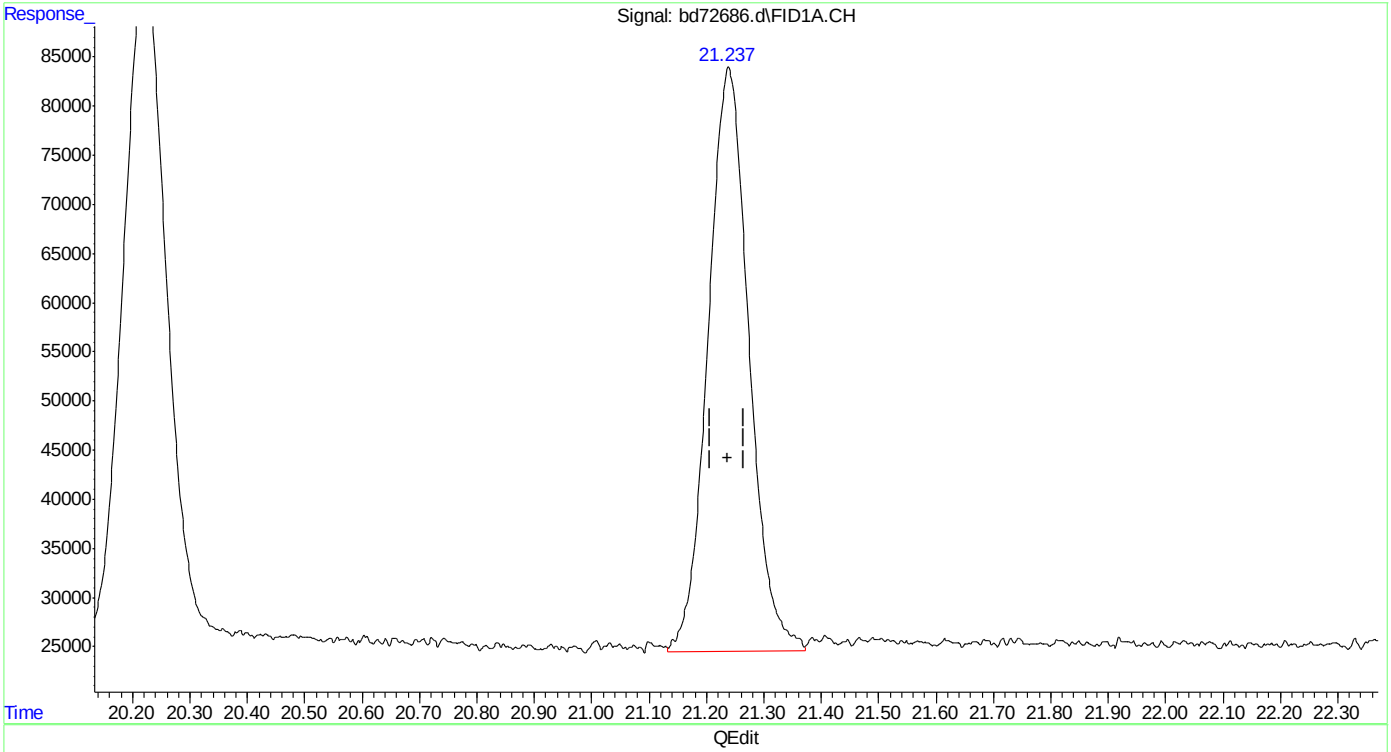
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:09 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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)
21.239min 6.315 ppb
response 2942188

(+) = Expected Retention Time

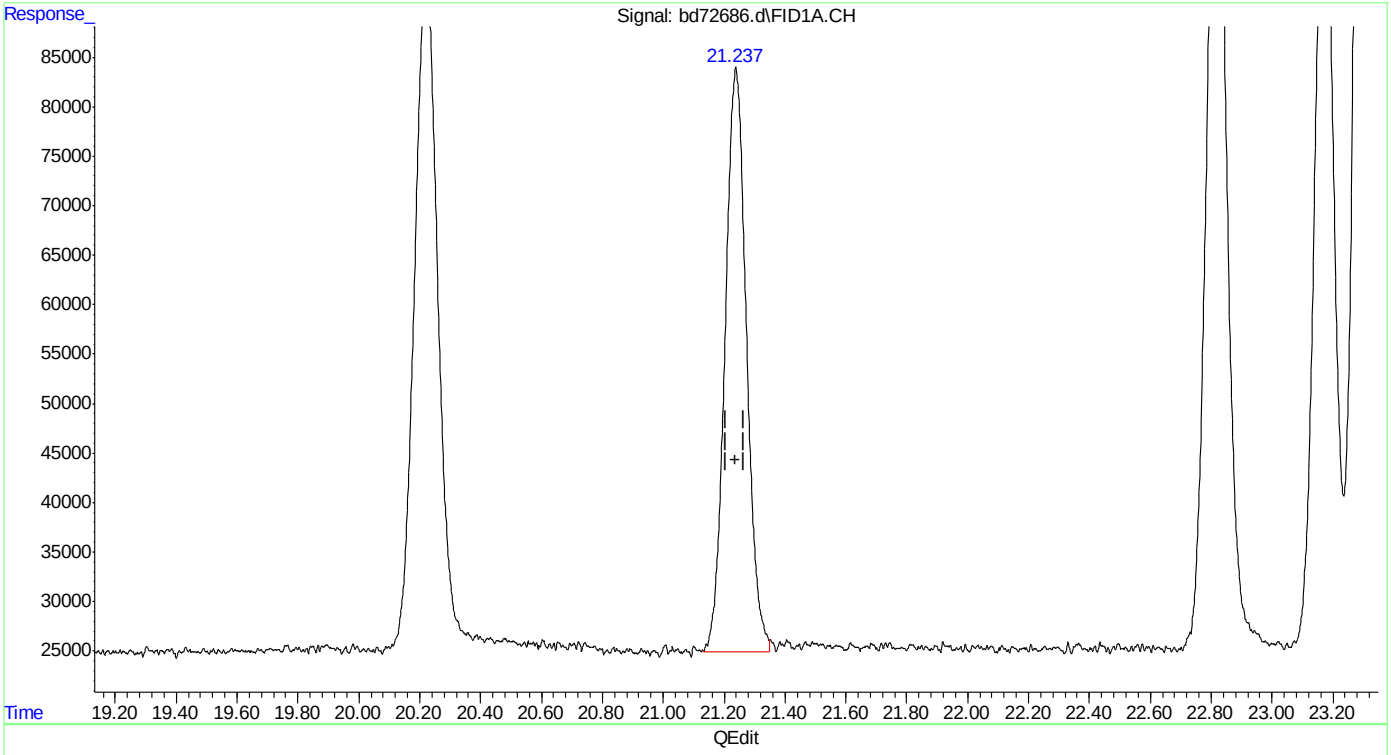
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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)
21.237min 6.165 ppb m
response 2872335

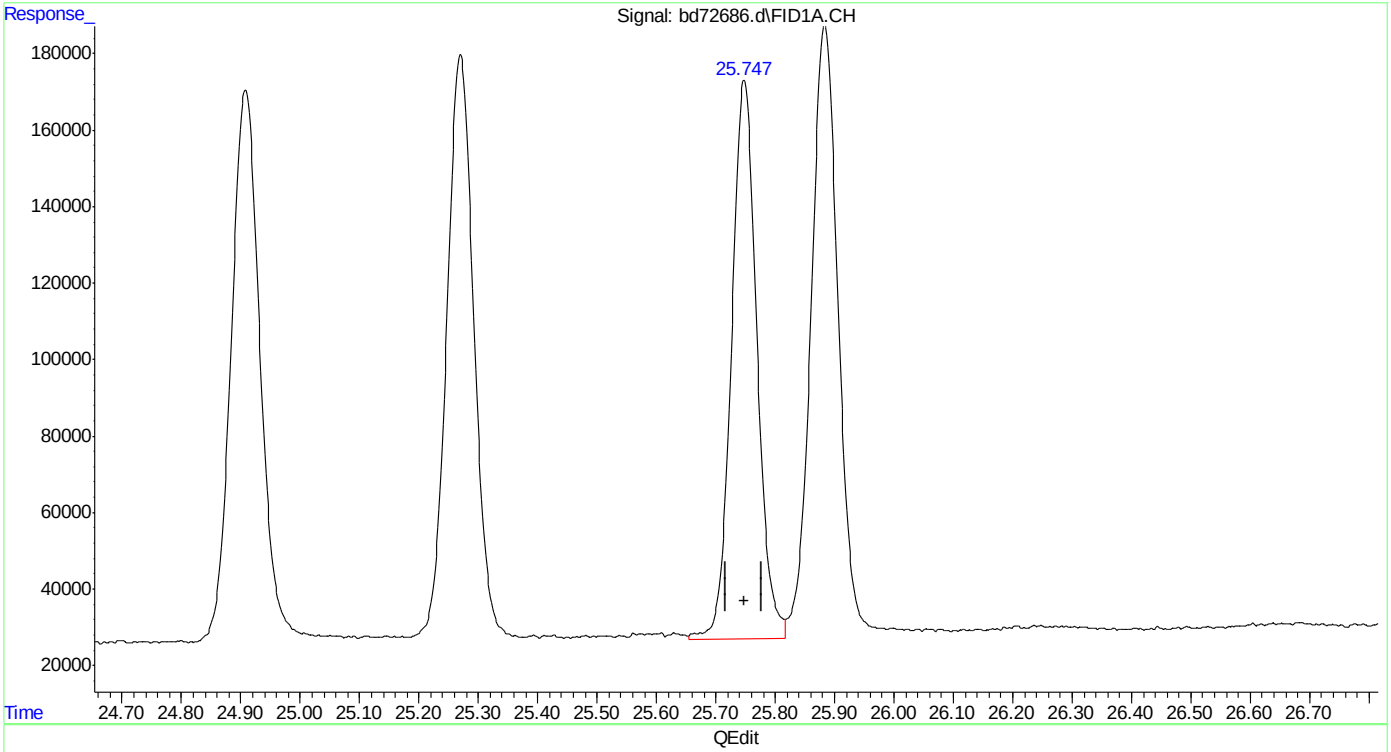
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
25.748min 4.934 ppb
response 4343408

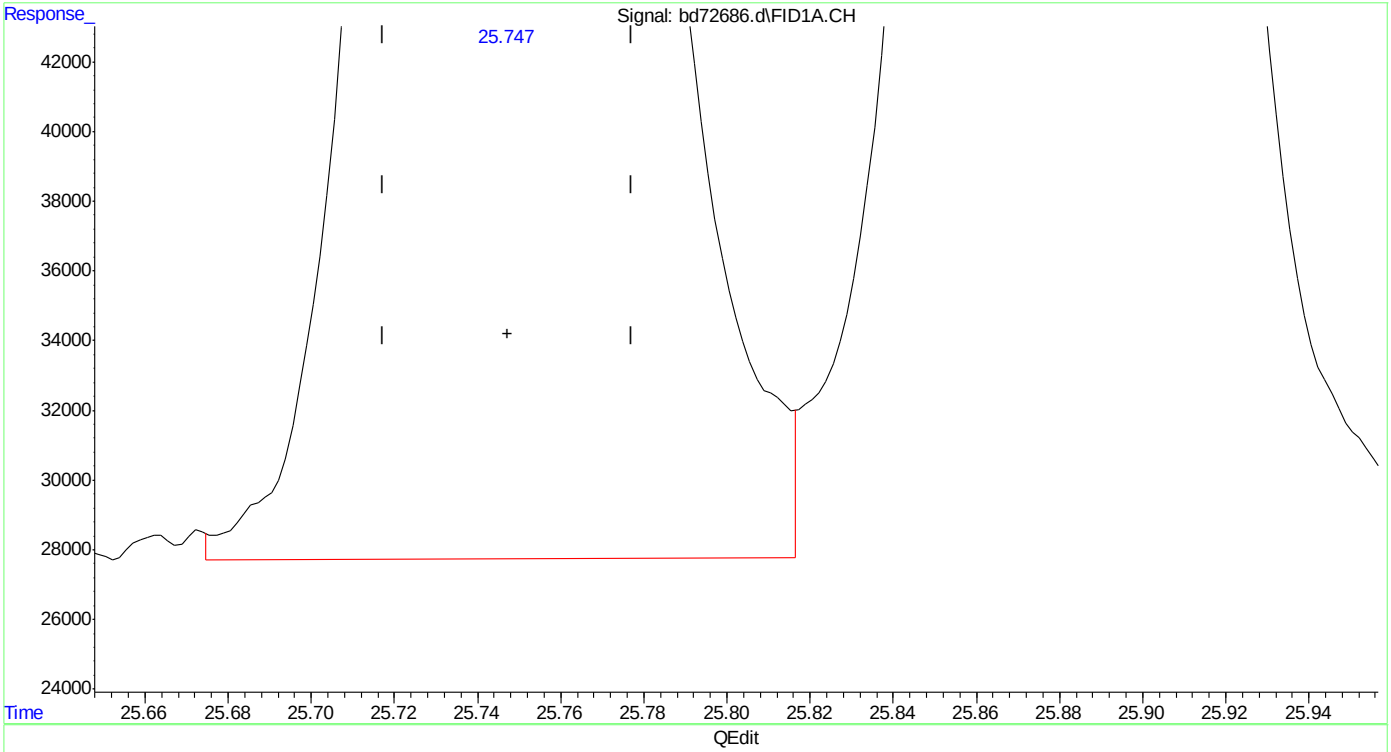
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
25.747min 4.849 ppb m
response 4268140

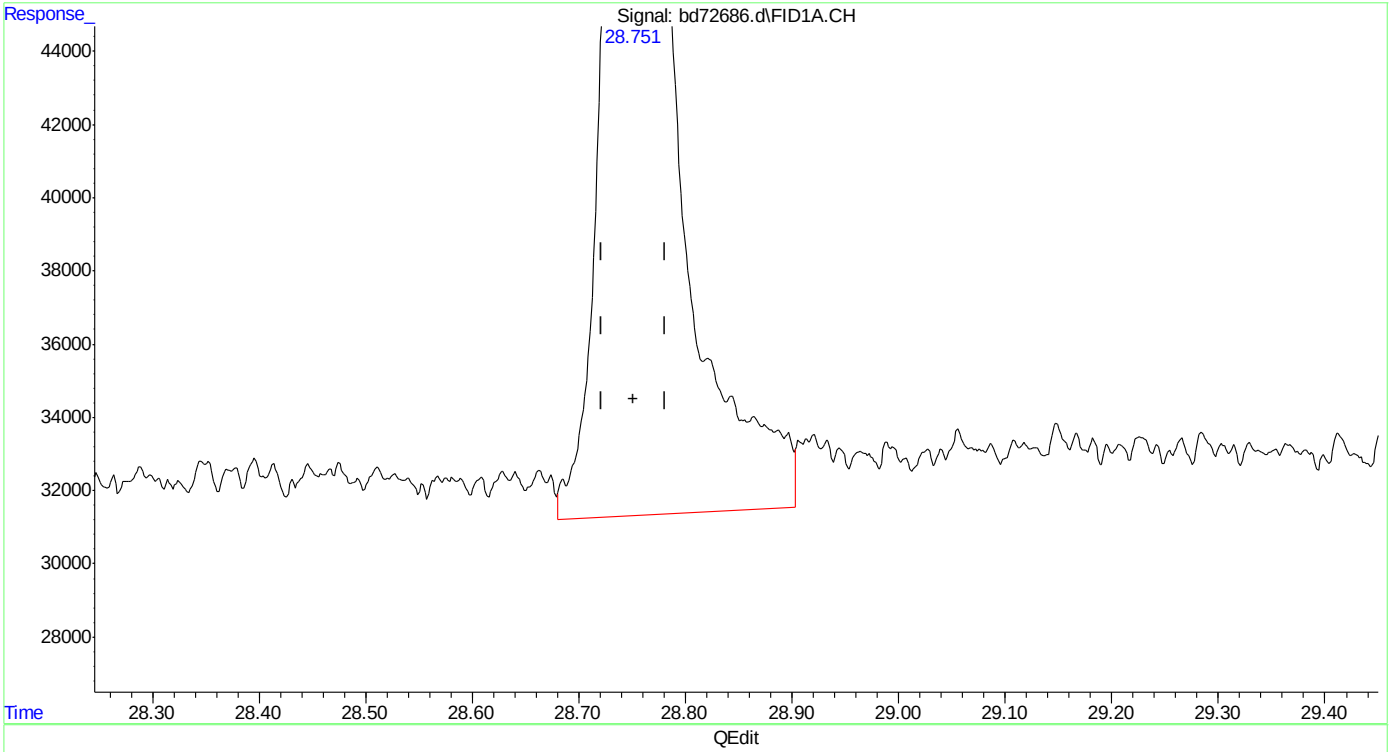
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
28.752min 3.551 ppb
response 1699084

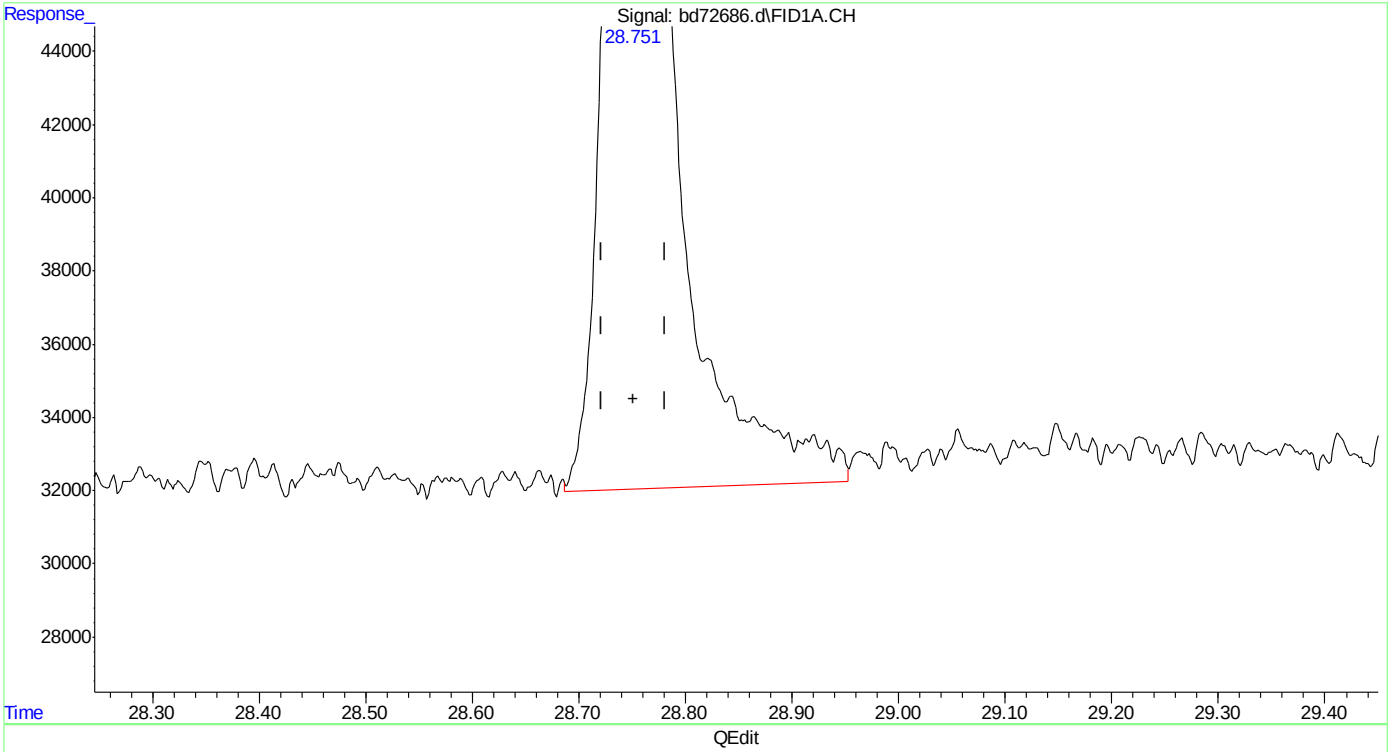
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
28.751min 3.412 ppb m
response 1632452

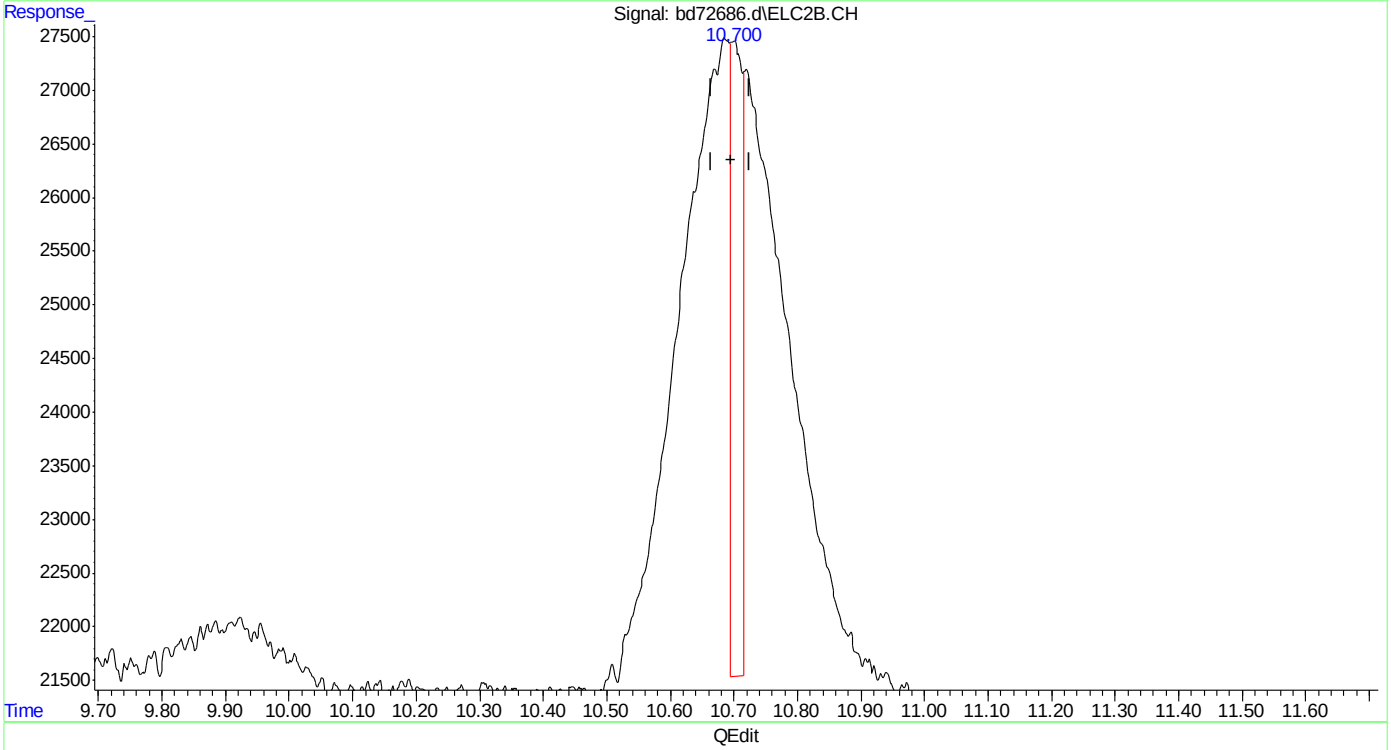
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
10.700min 0.472 ppb
response 74623

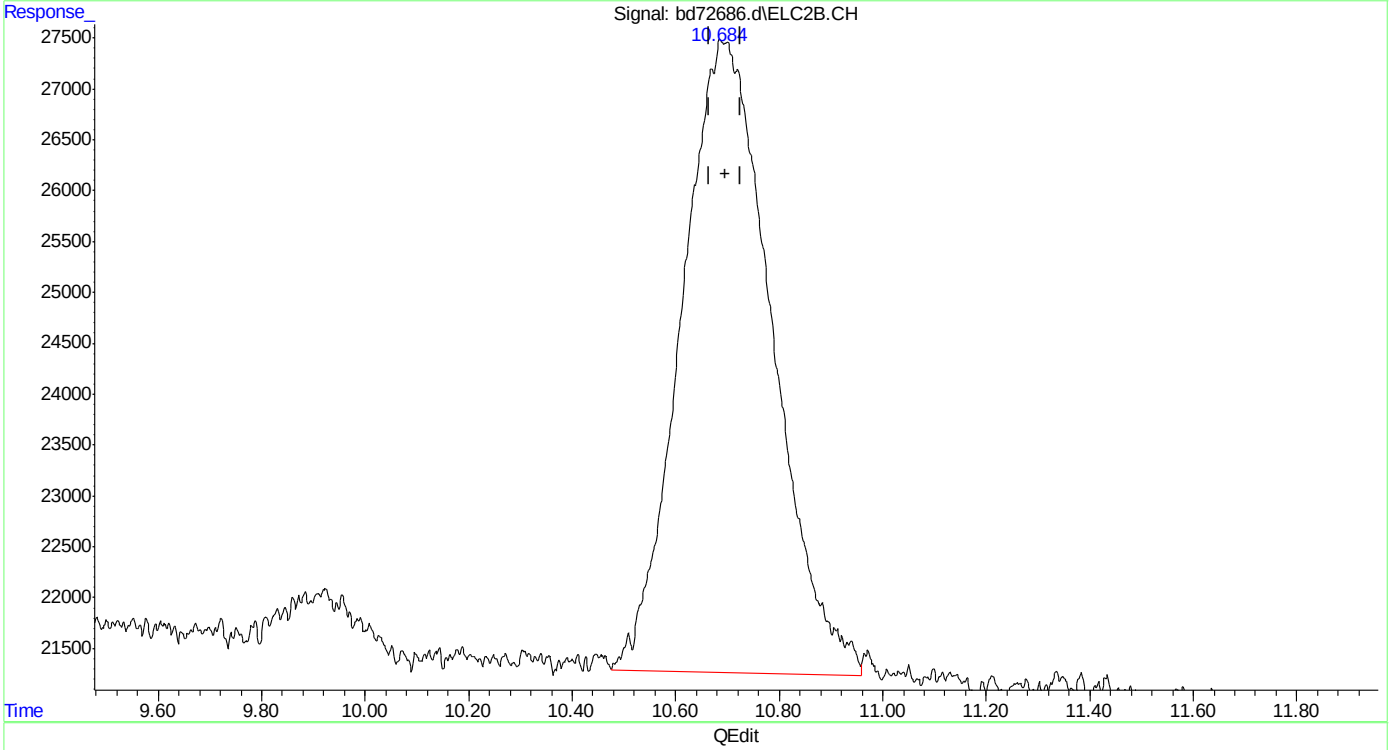
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
10.684min 4.779 ppb m
response 756337

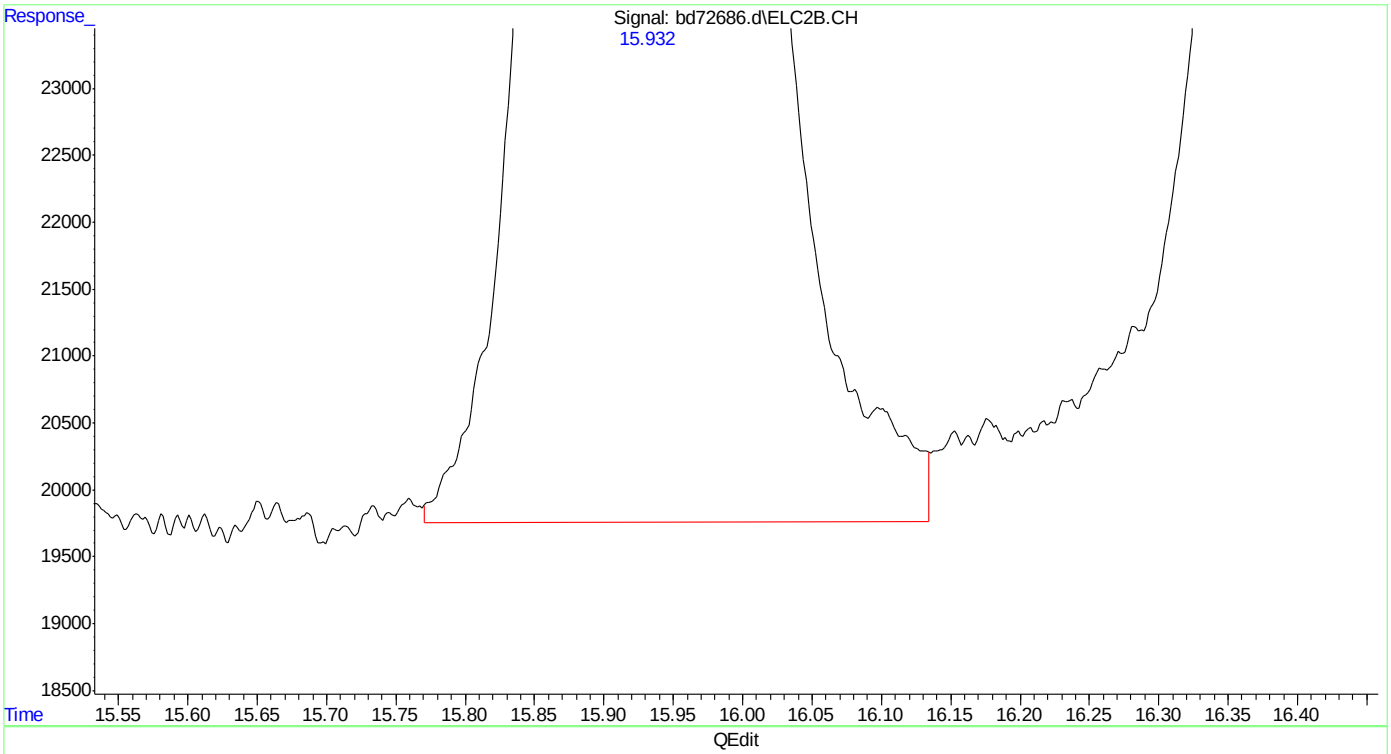
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
15.932min 4.863 ppb m
response 2298025

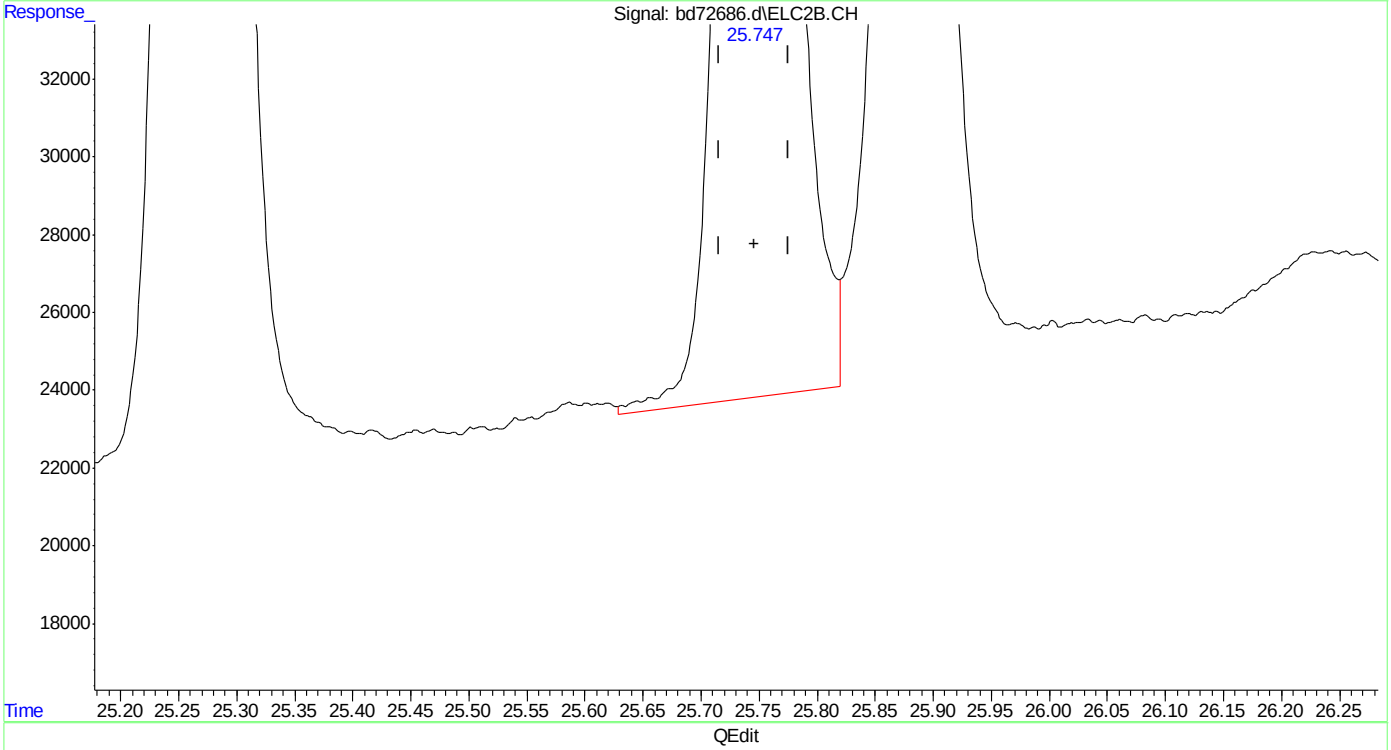
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
25.747min 4.982 ppb
response 2305795

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:42 2016

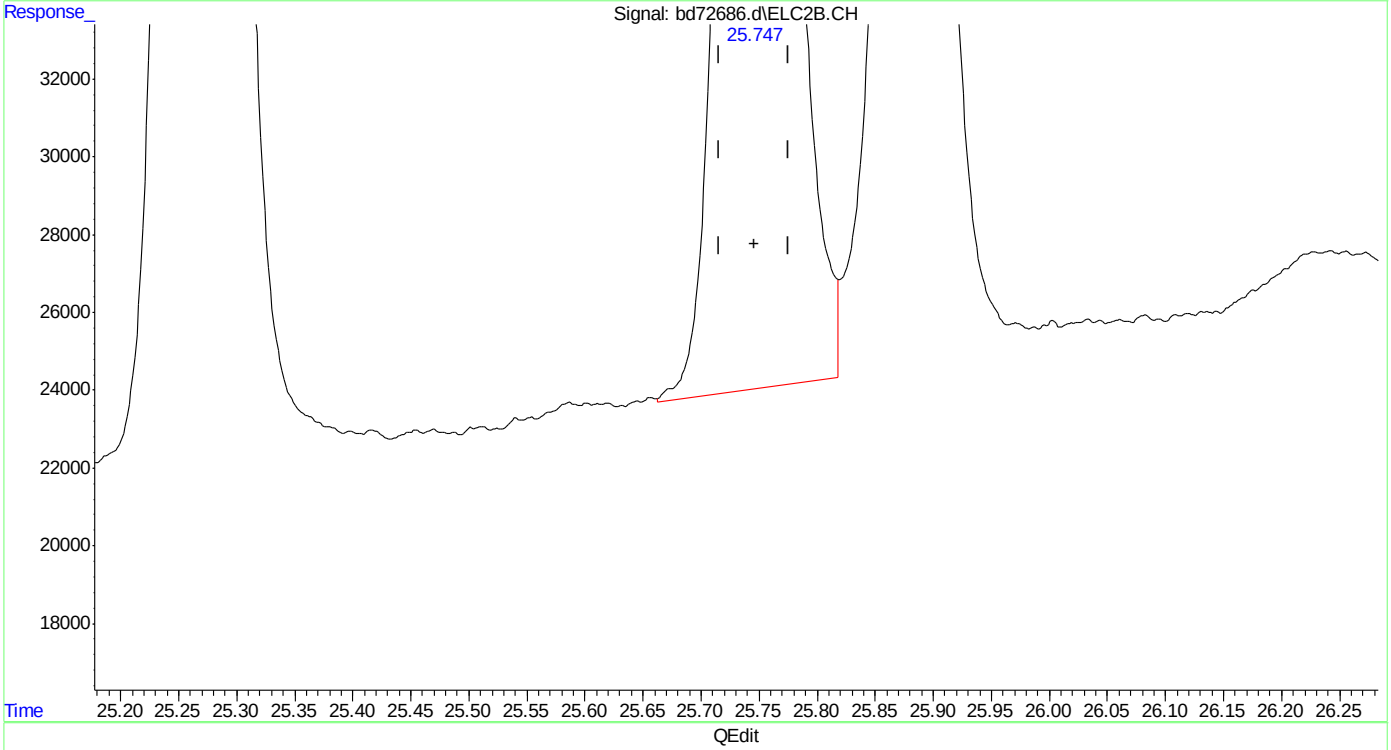
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 11:51:48 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 11:34:18 2016
Response via : Initial 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
25.747min 4.922 ppb m
response 2277872

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:55:49 2016

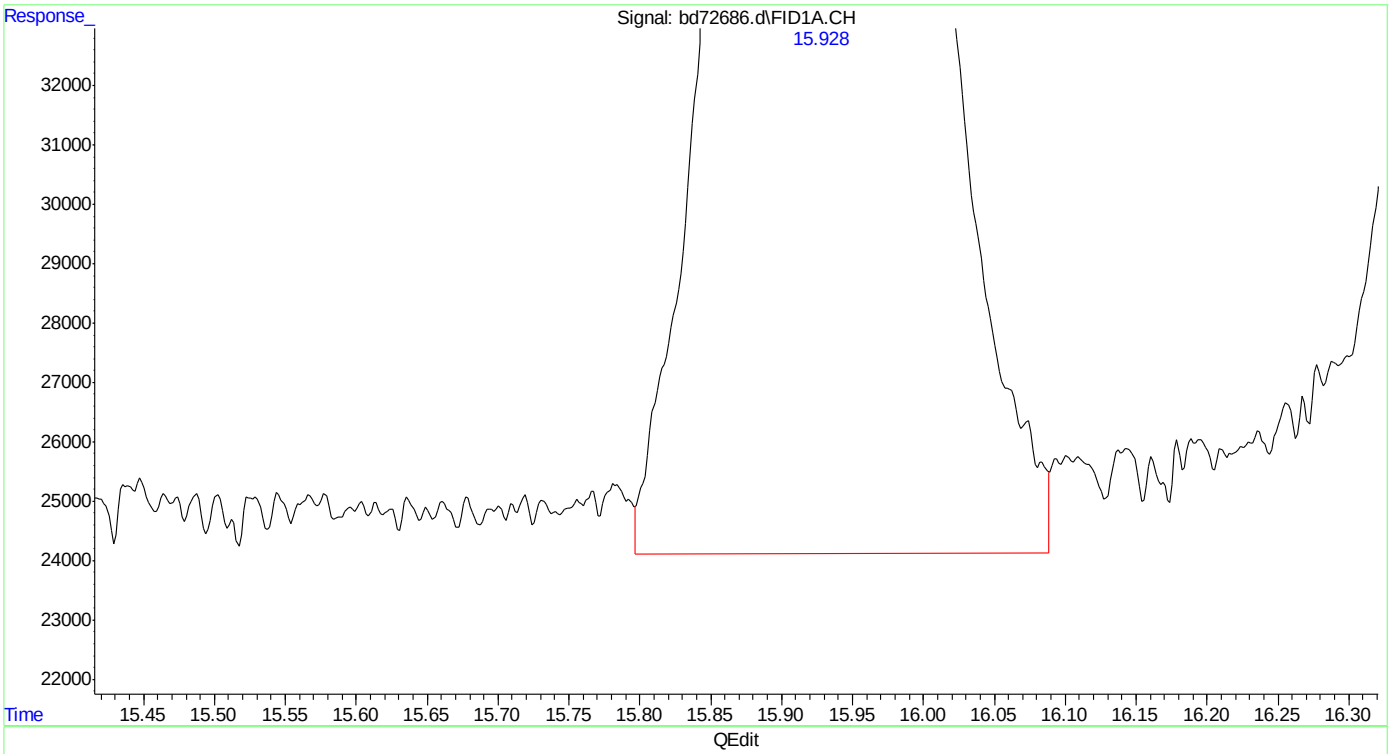
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
15.930min 4.747 ppb
response 3683528

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:29 2016

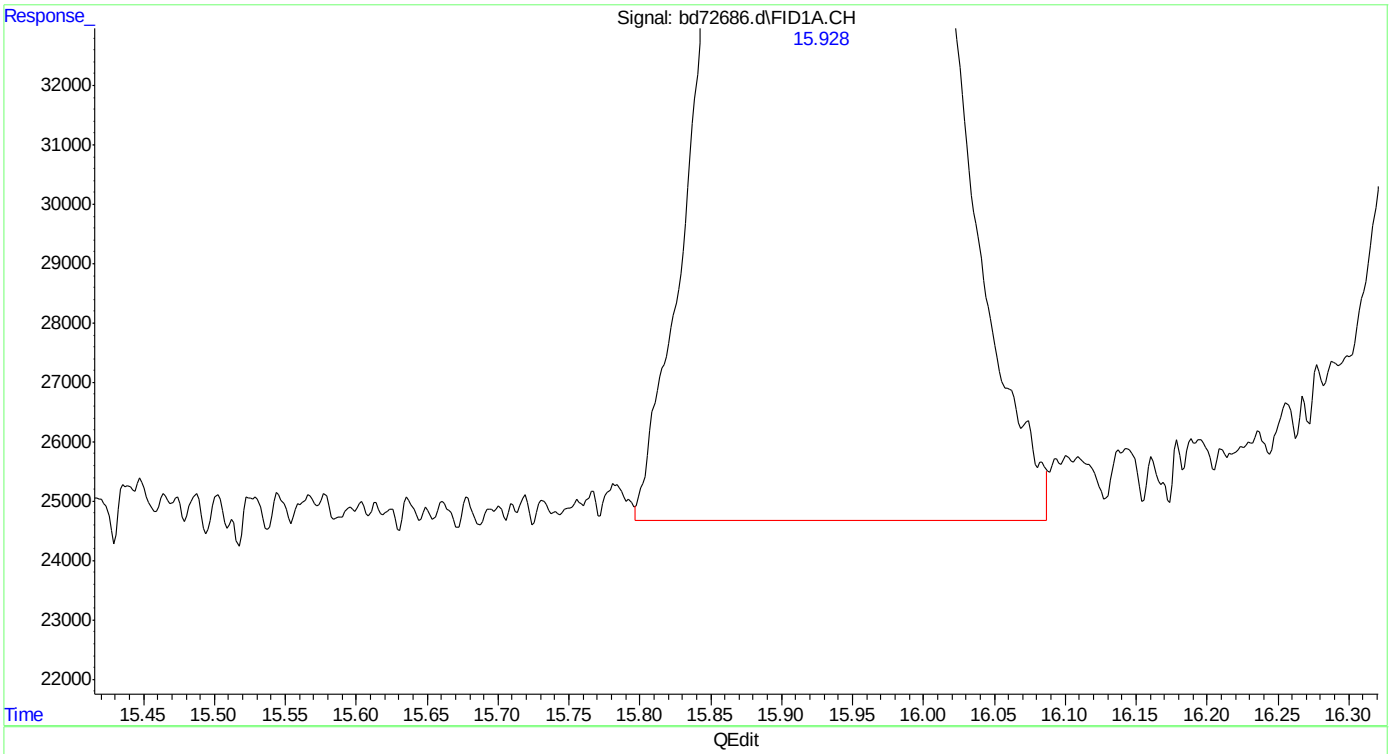
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
15.928min 4.622 ppb m
response 3586407

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:34 2016

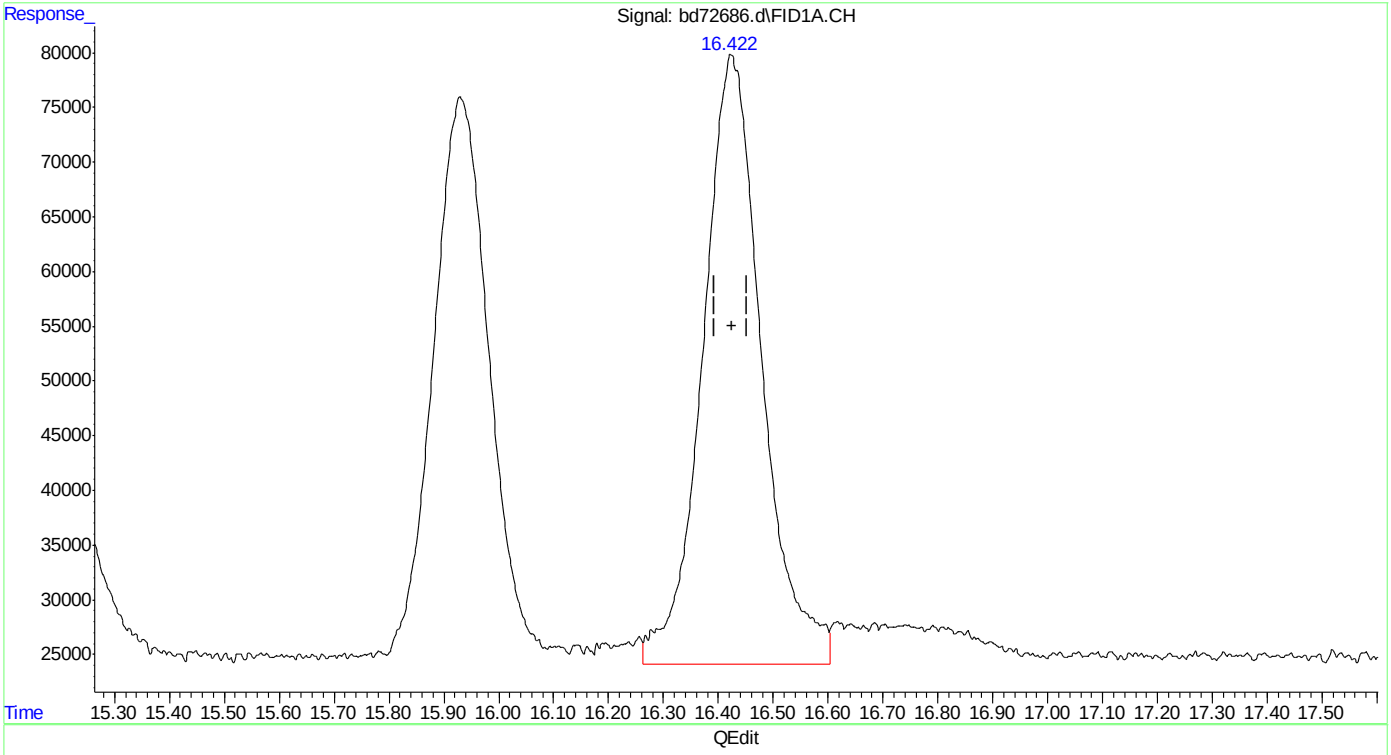
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
16.423min 5.653 ppb
response 4152408

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:37 2016 Page: 1

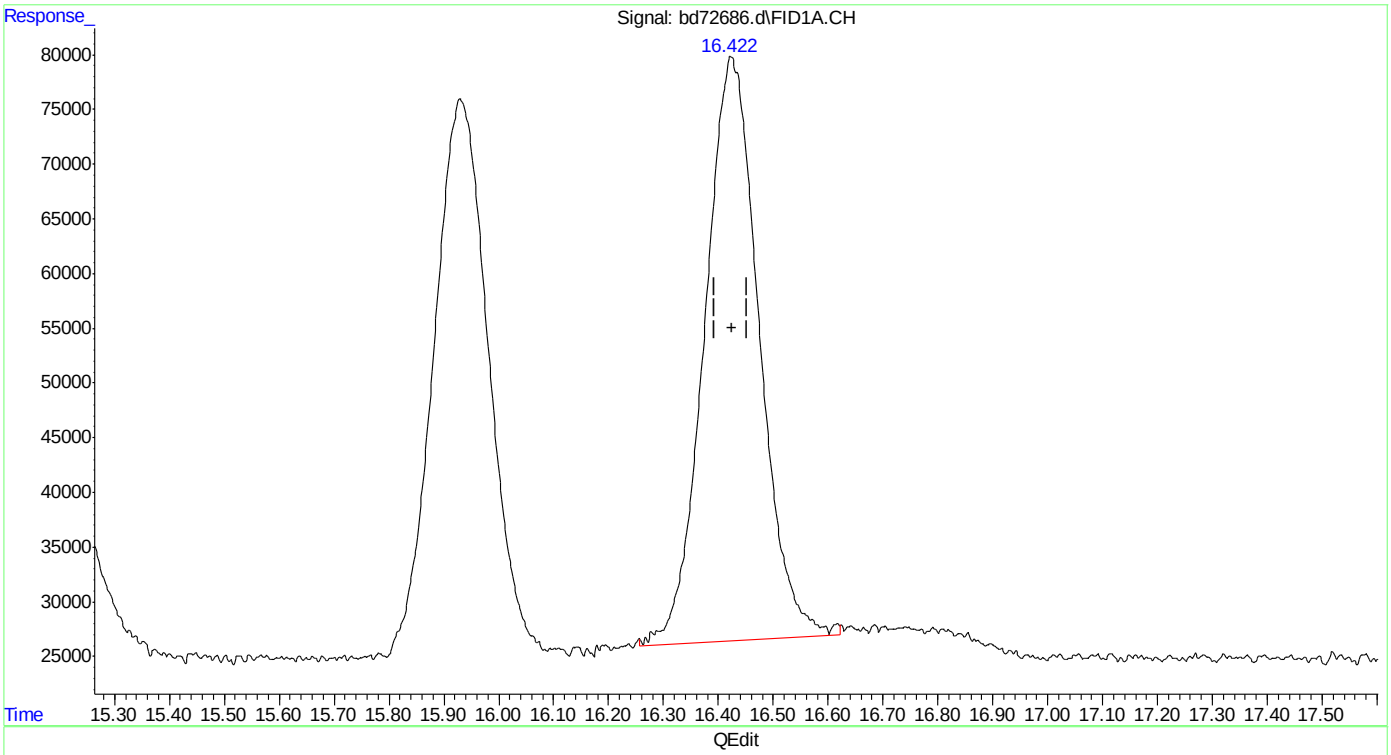
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
16.422min 5.021 ppb m
response 3688118

(+) = Expected Retention Time

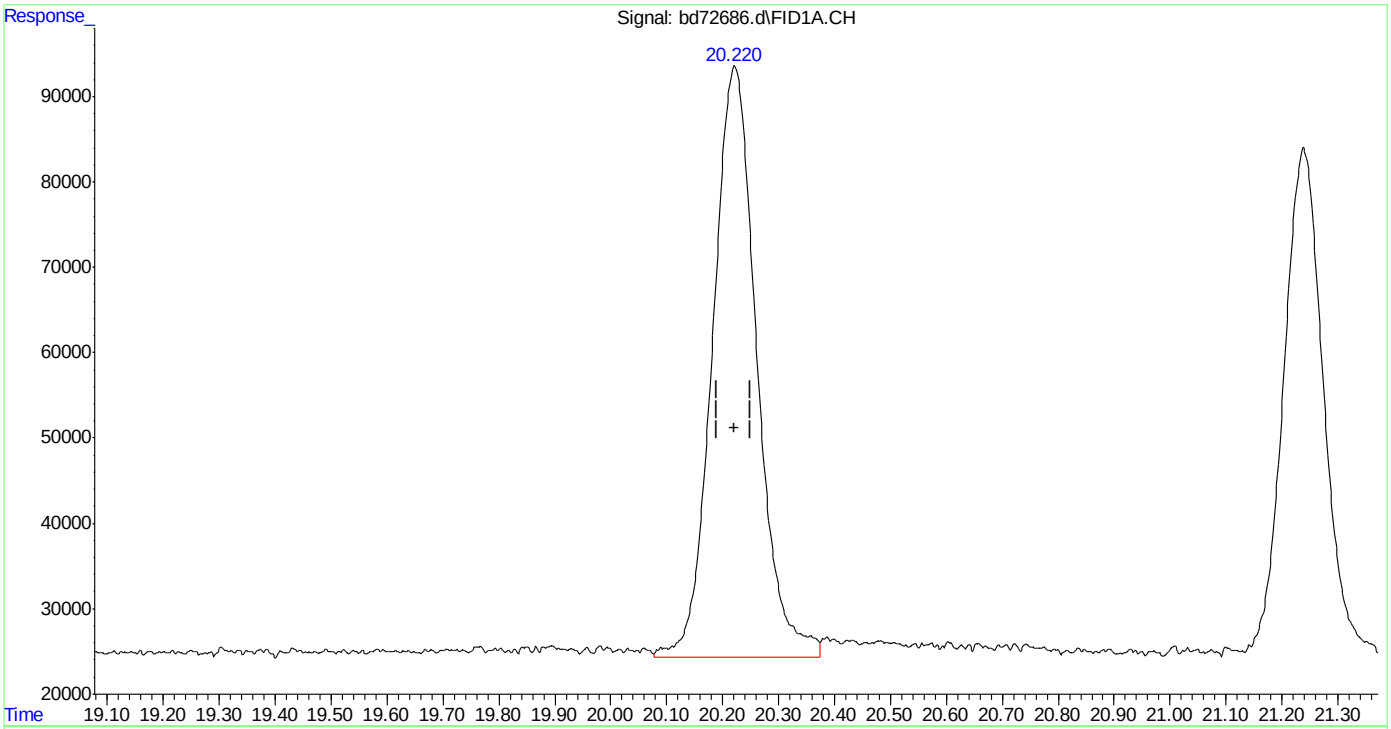
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
20.222min 4.870 ppb
response 3795317

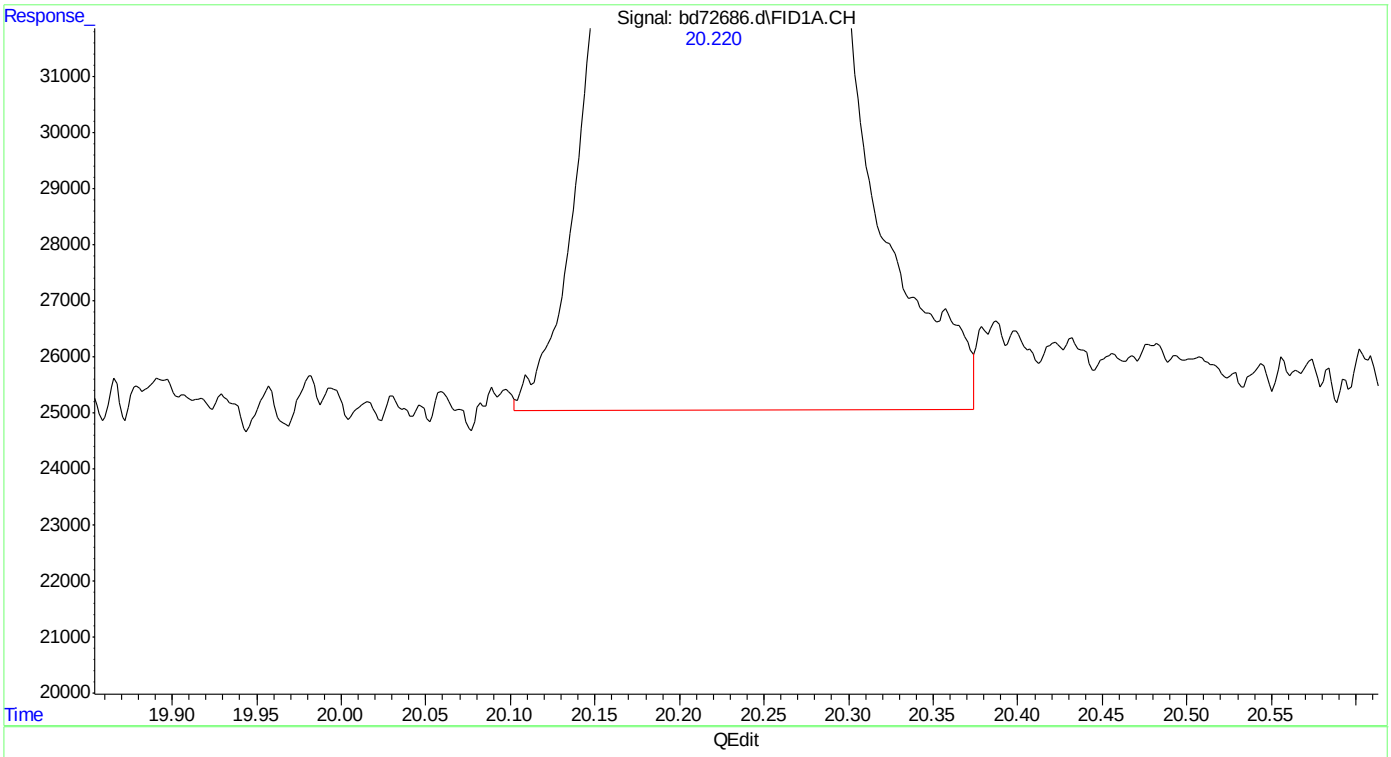
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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

20.220min 4.710 ppb m

response 3670681

(+) = Expected Retention Time

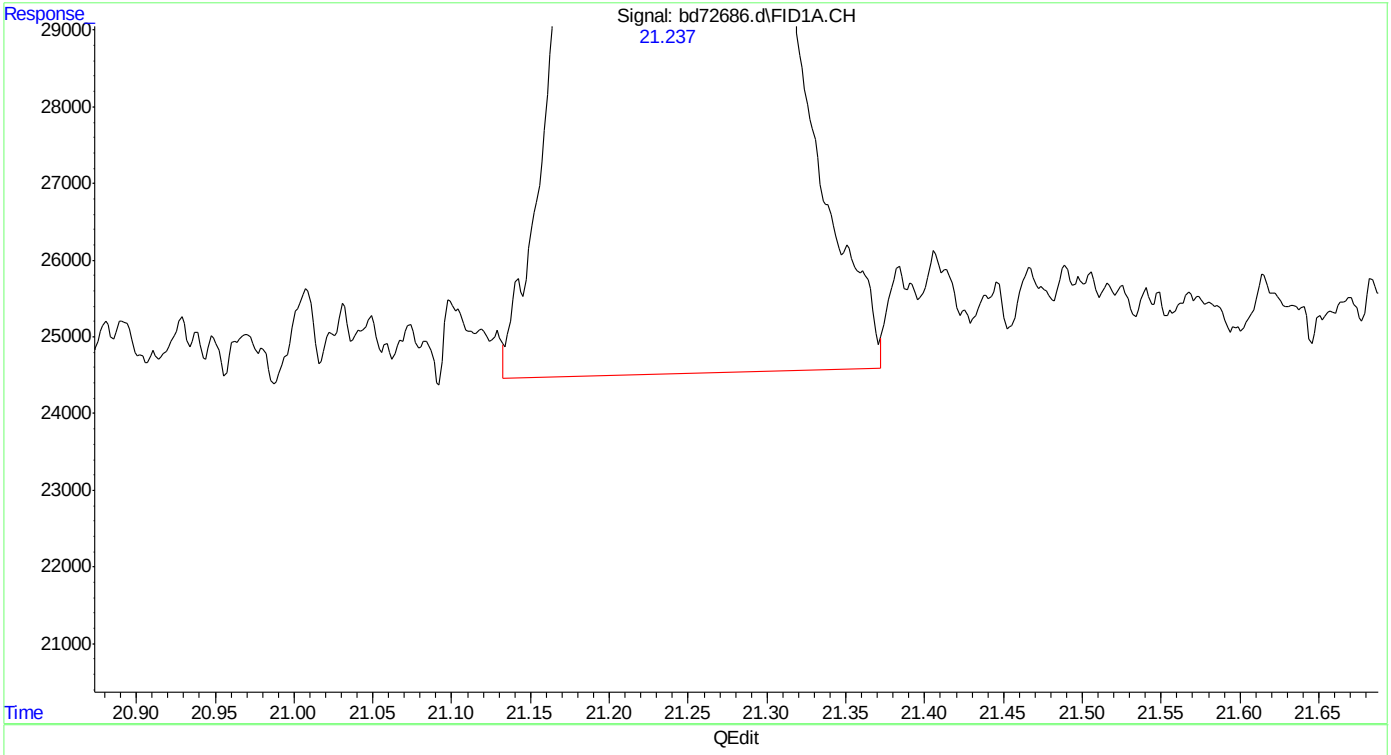
bd160219master.M Fri Feb 19 12:06:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
21.239min 5.183 ppb
response 2942188

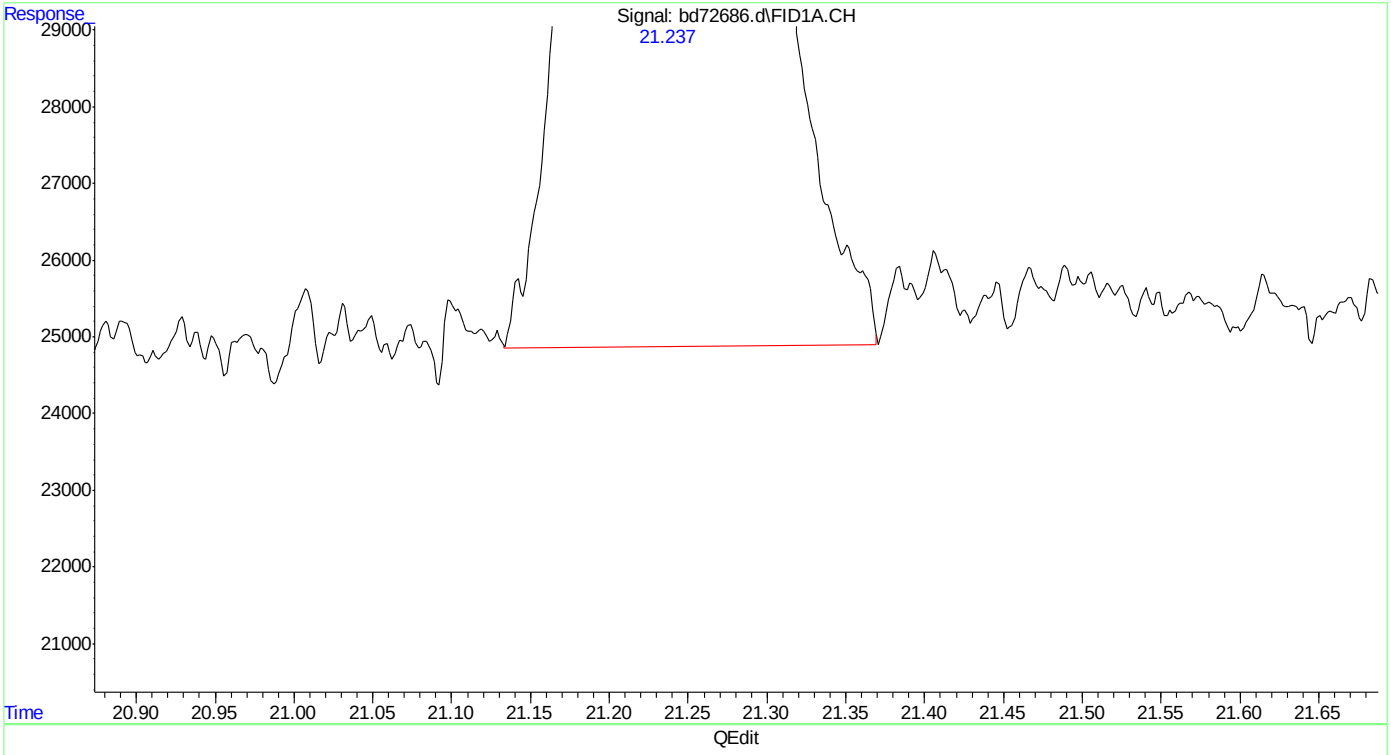
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
21.237min 5.093 ppb m
response 2891402

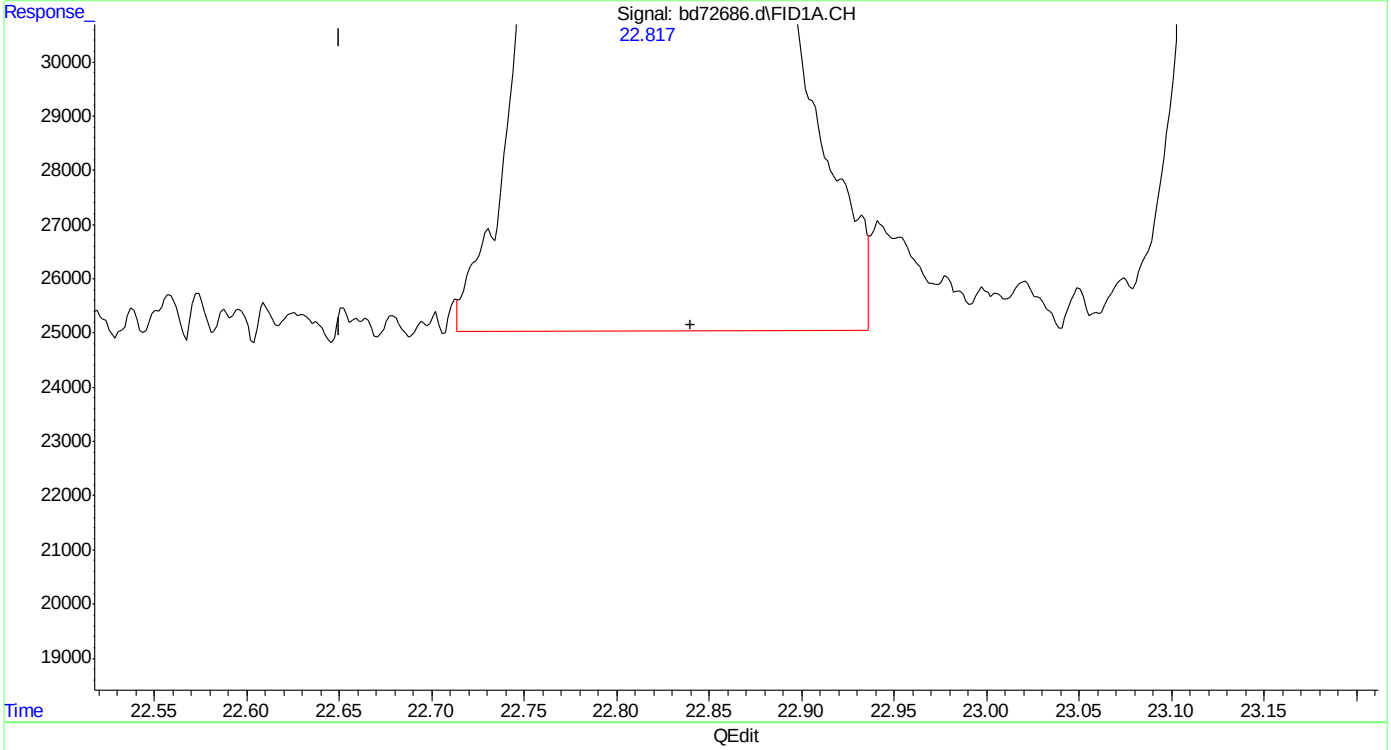
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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) rt20/25 (h)
22.840min 5.237 ppb m
response 4228618

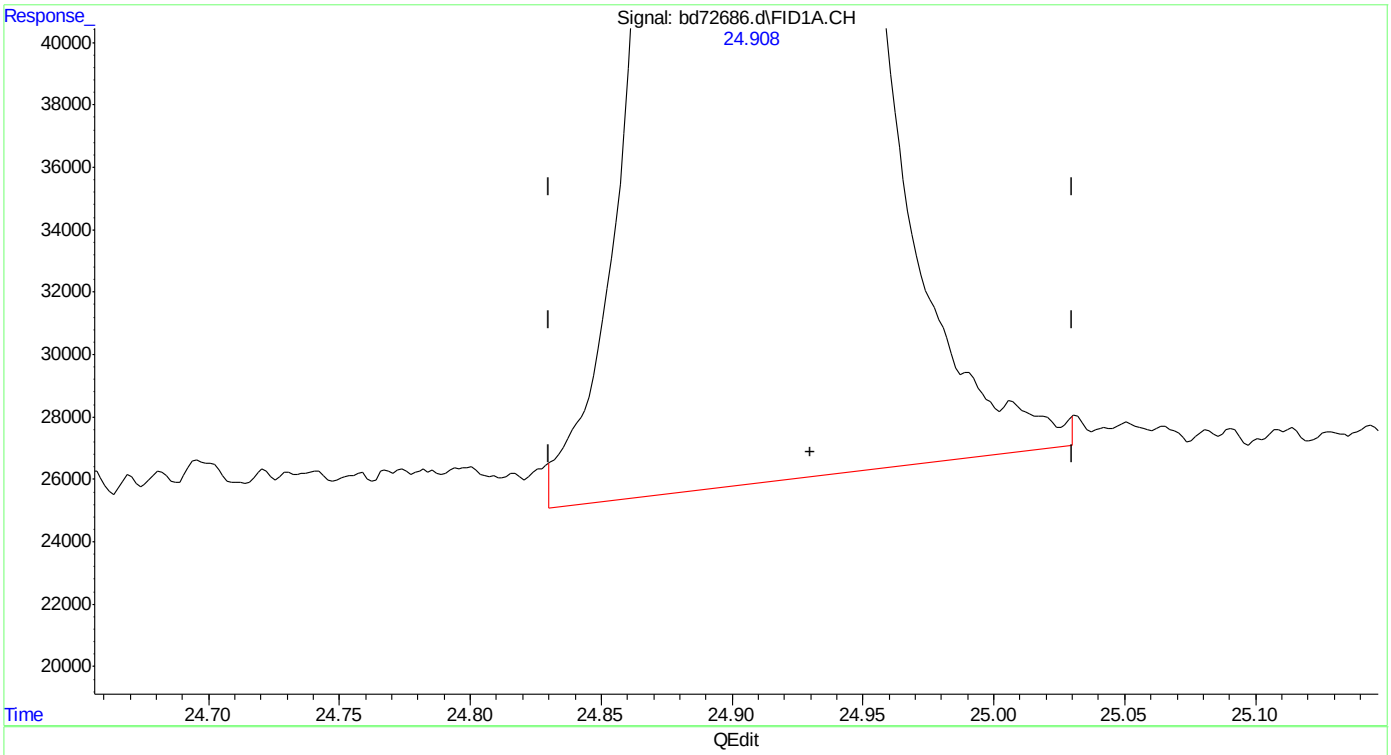
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
24.930min 5.719 ppb
response 4916883

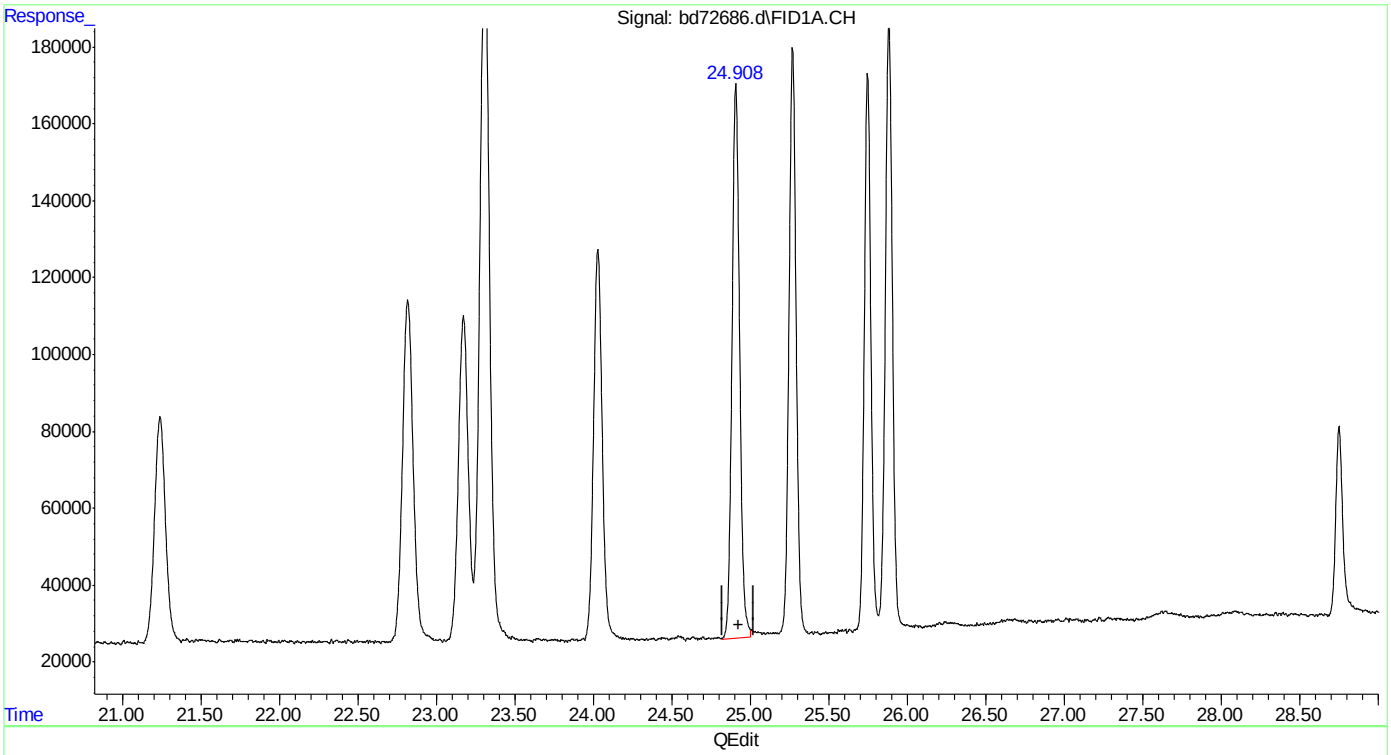
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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)
24.930min 5.664 ppb m
response 4869338

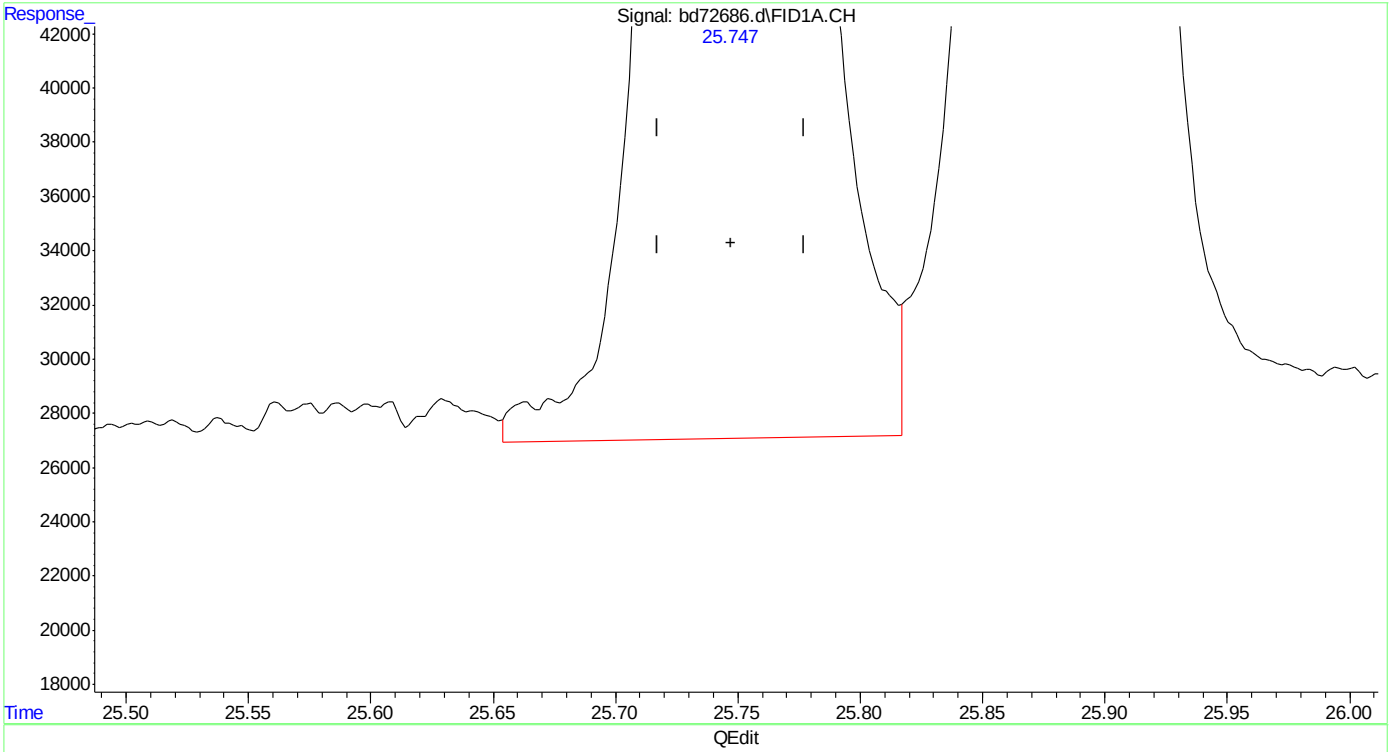
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
25.748min 4.985 ppb
response 4343408

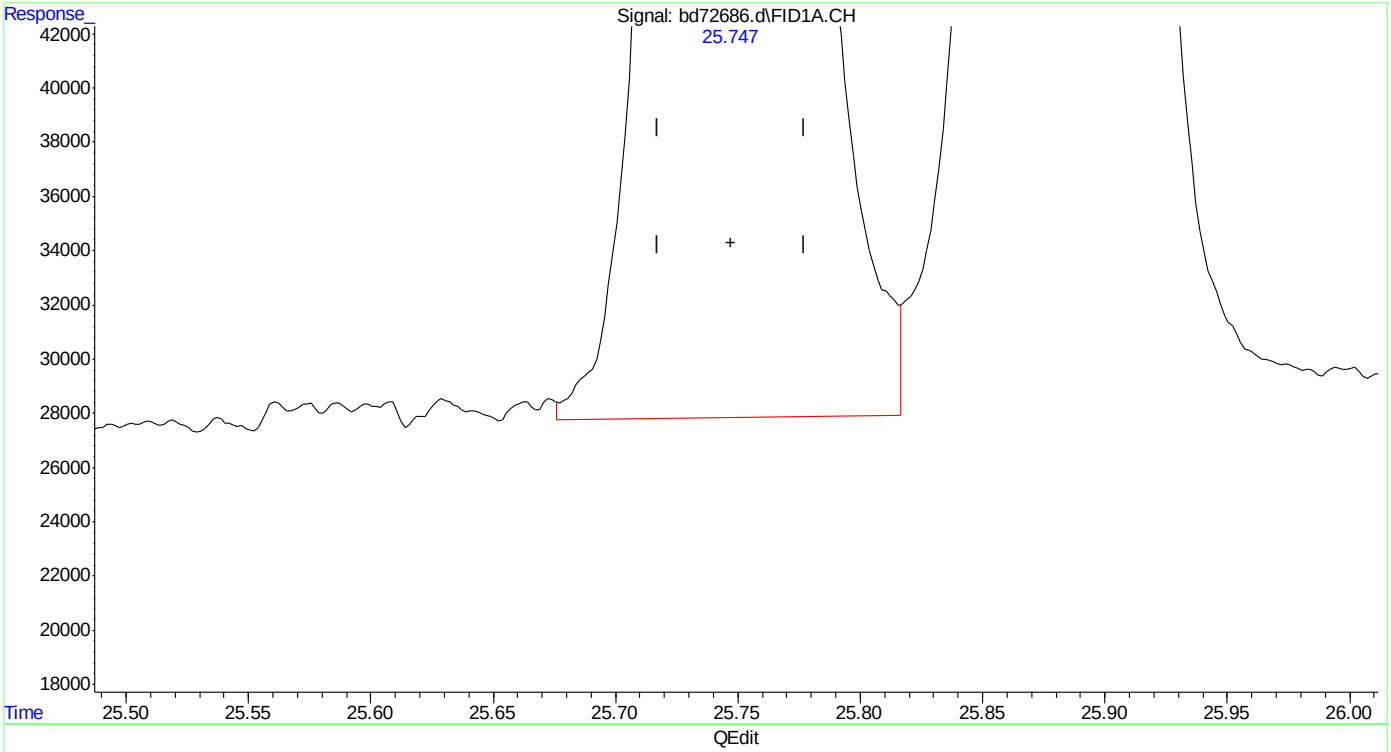
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
25.747min 4.888 ppb m
response 4259354

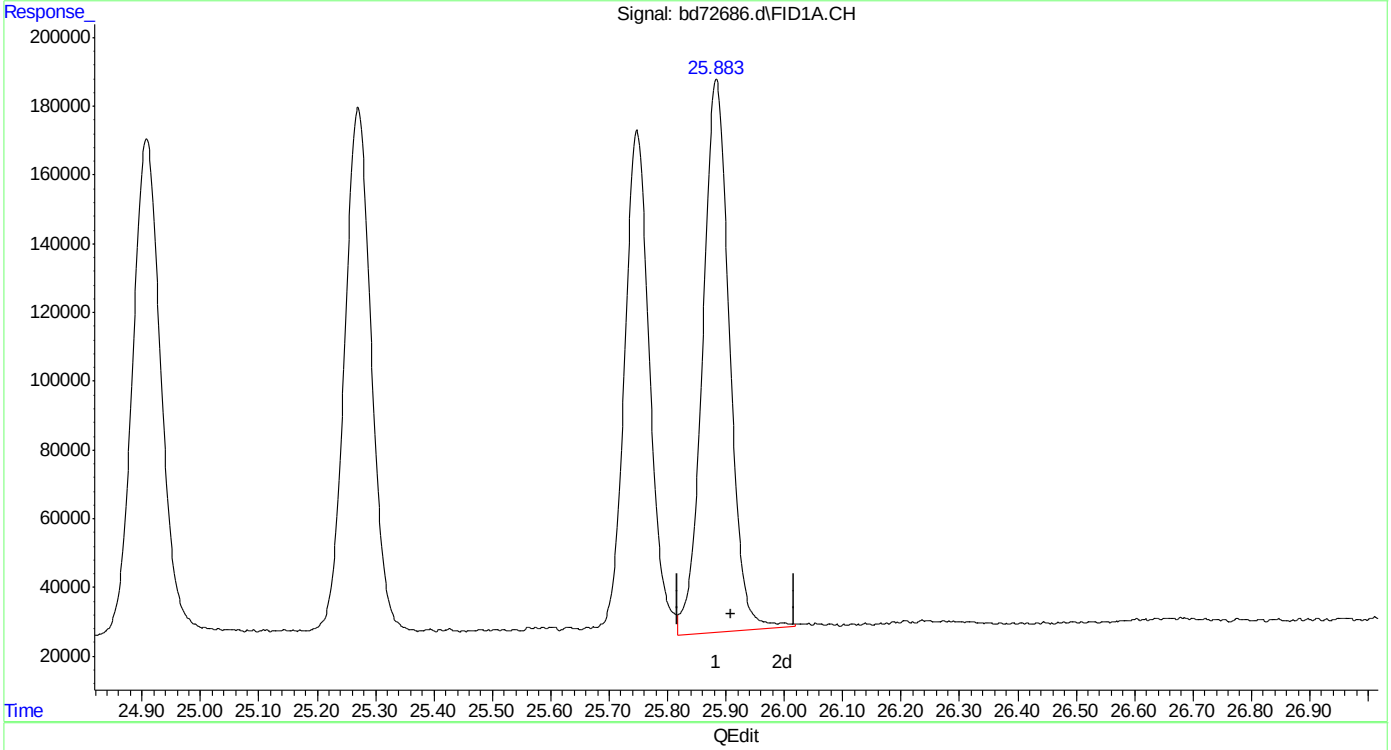
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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) butylcyclohexane (h)
25.908min 5.606 ppb m
response 5140578

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:08 2016

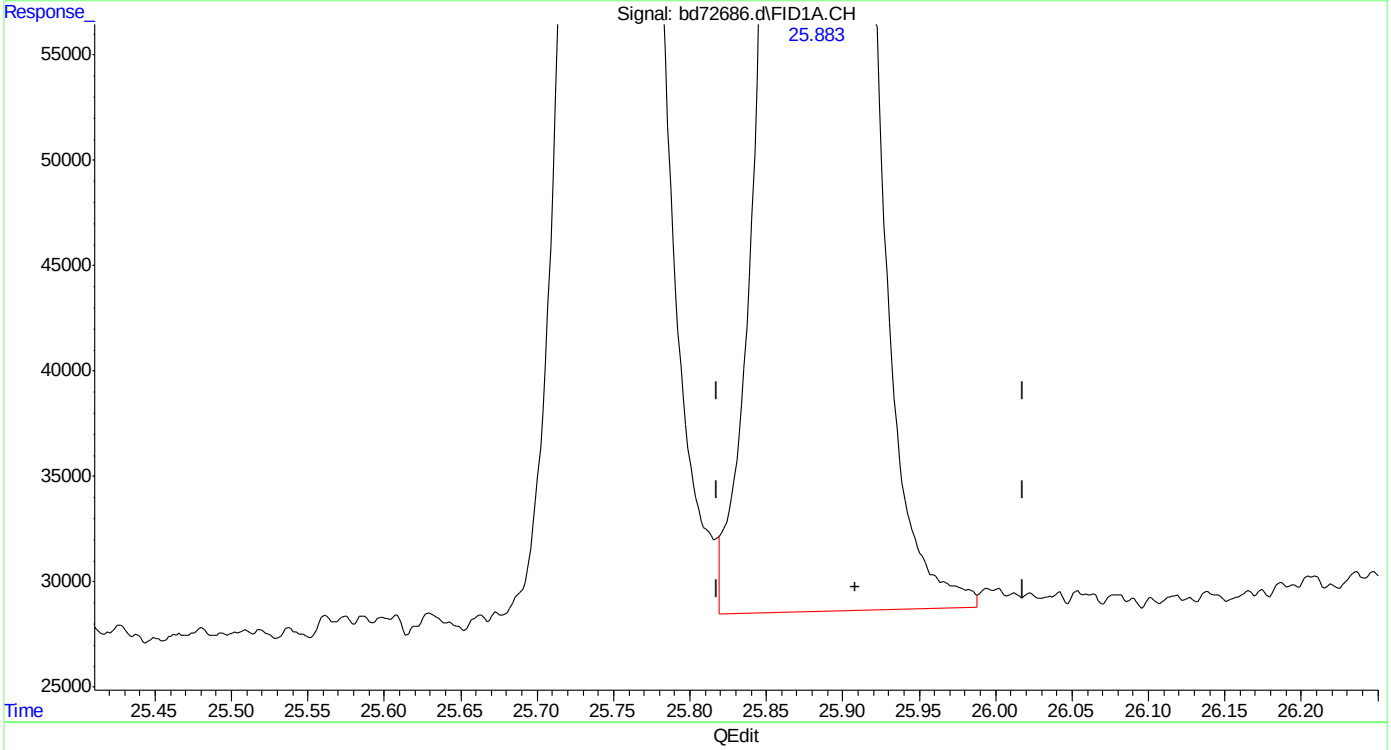
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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) butylcyclohexane (h)
25.908min 5.418 ppb m
response 4968205

(+) = Expected Retention Time

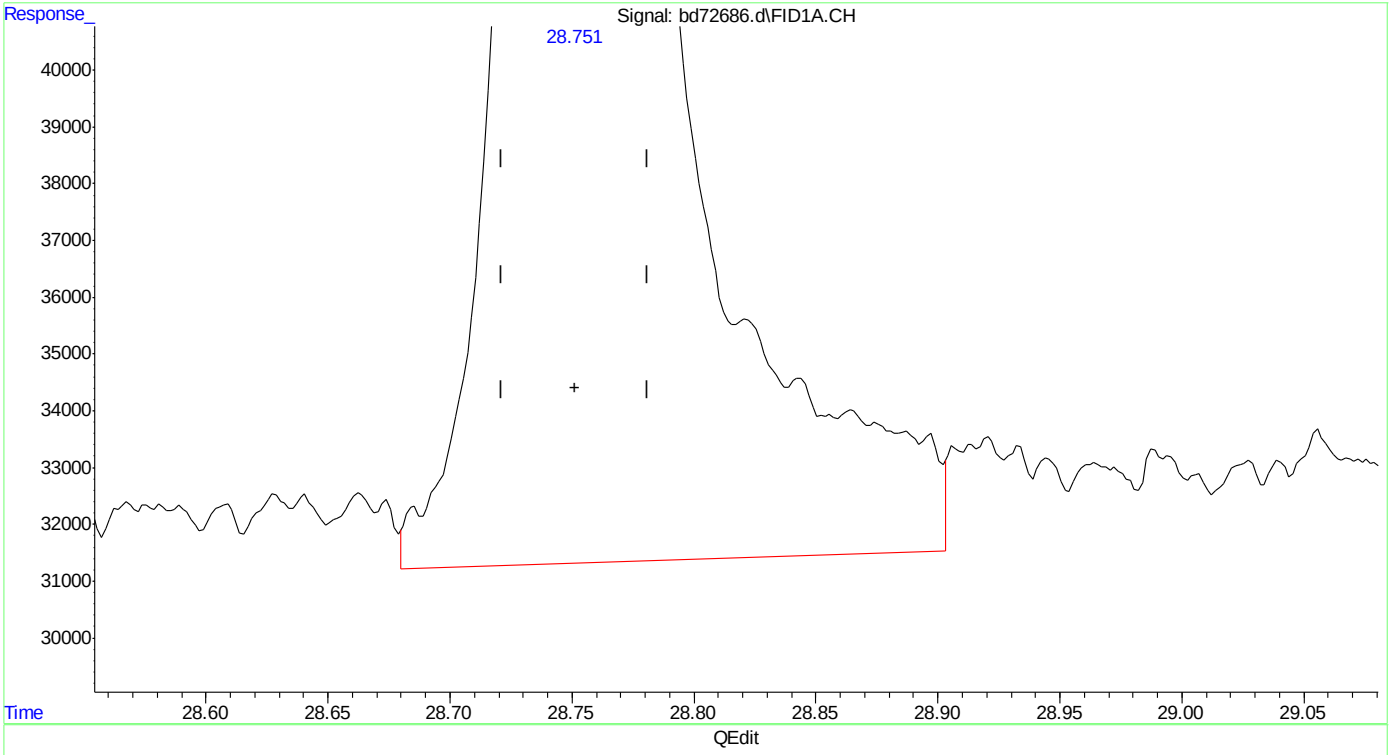
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
28.752min 3.971 ppb
response 1699084

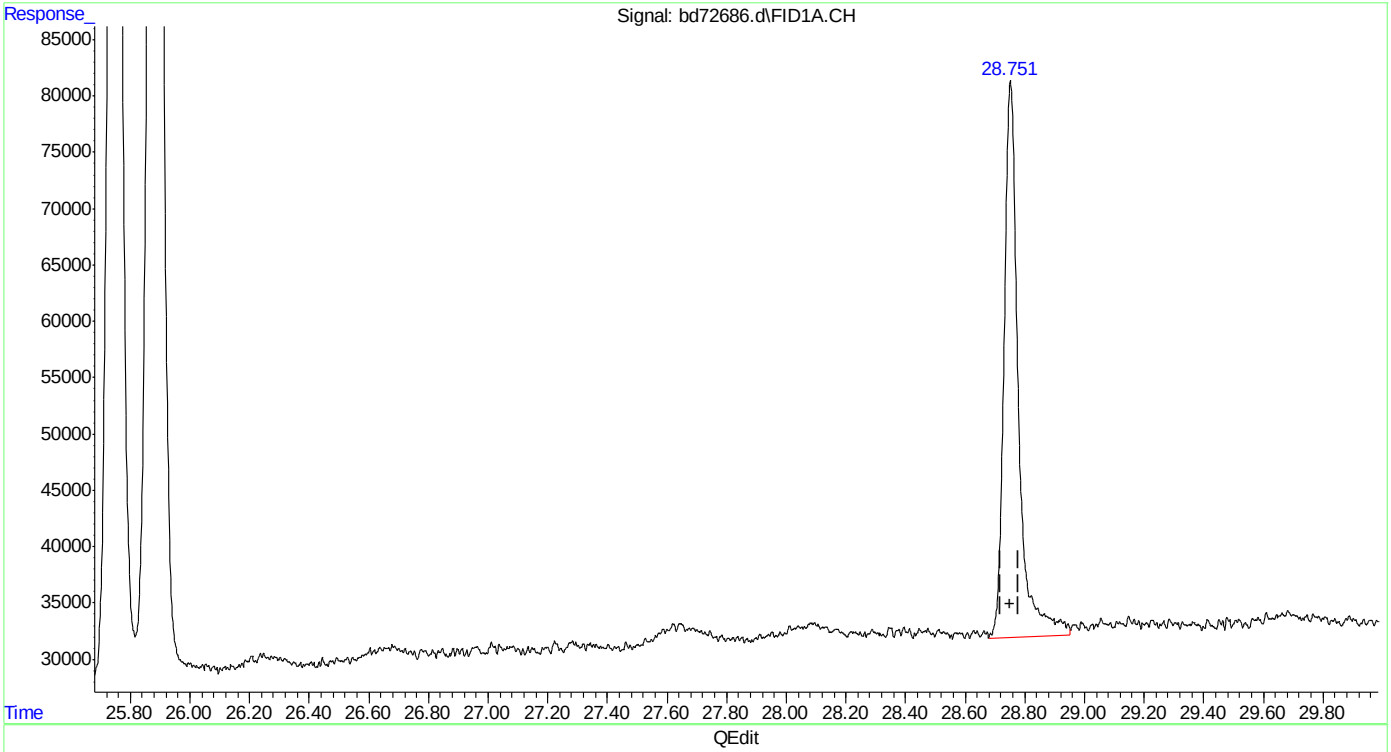
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
28.751min 3.869 ppb m
response 1655353

(+) = Expected Retention Time

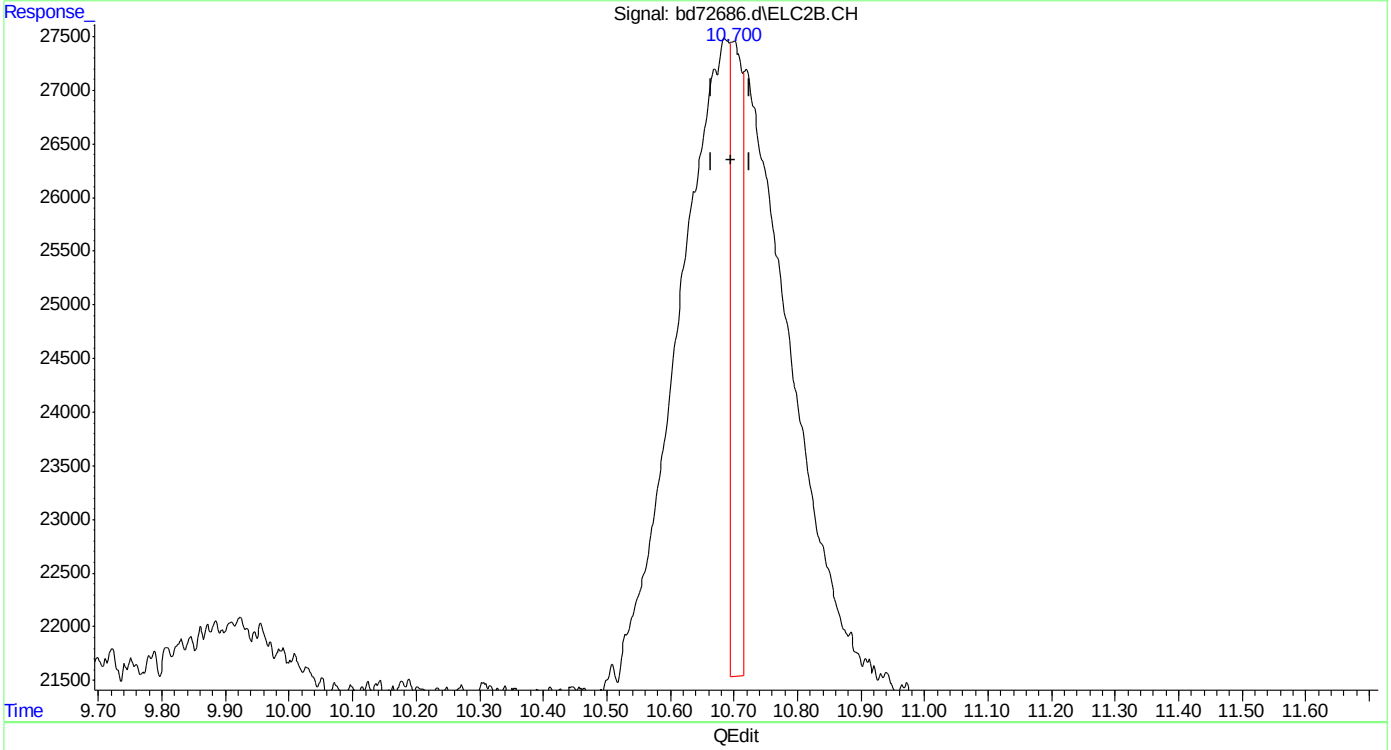
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
10.700min 0.479 ppb
response 74623

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:43 2016

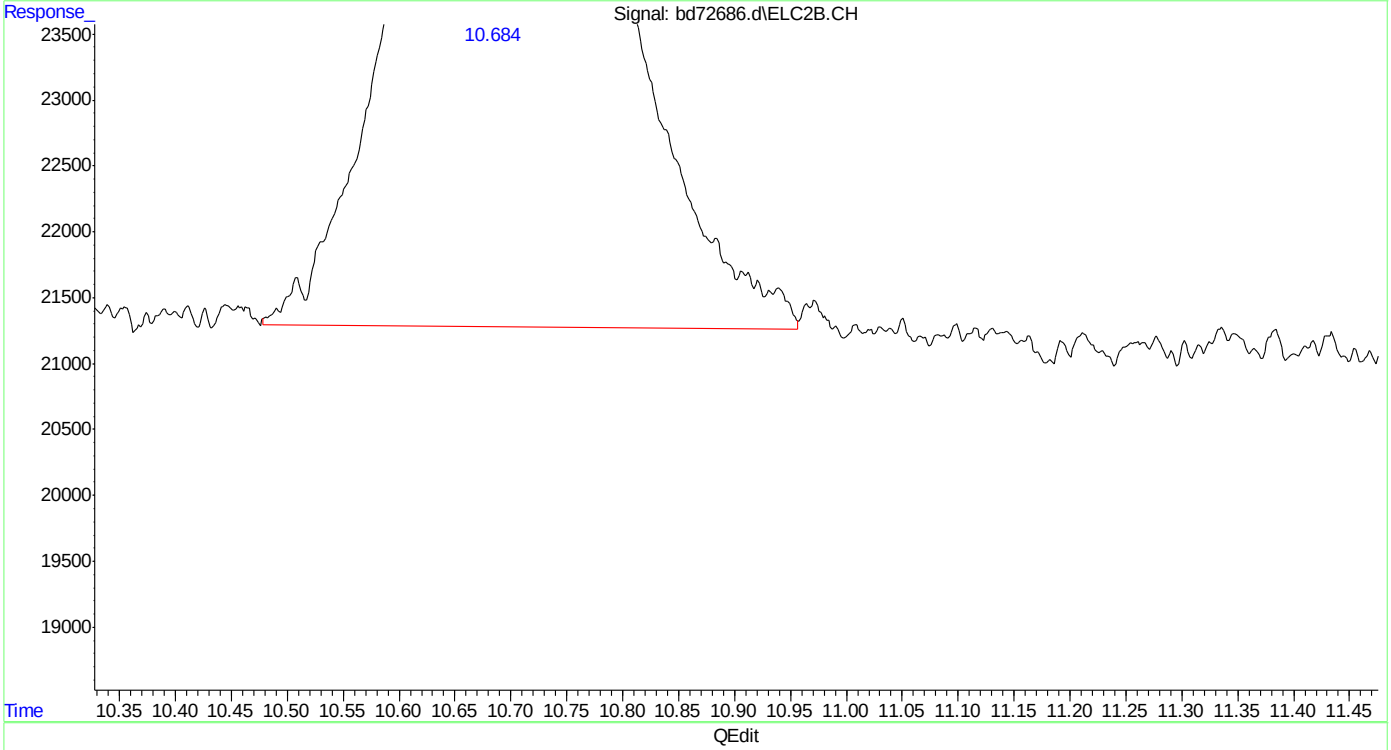
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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

10.684min 4.817 ppb m

response 750779

(+) = Expected Retention Time

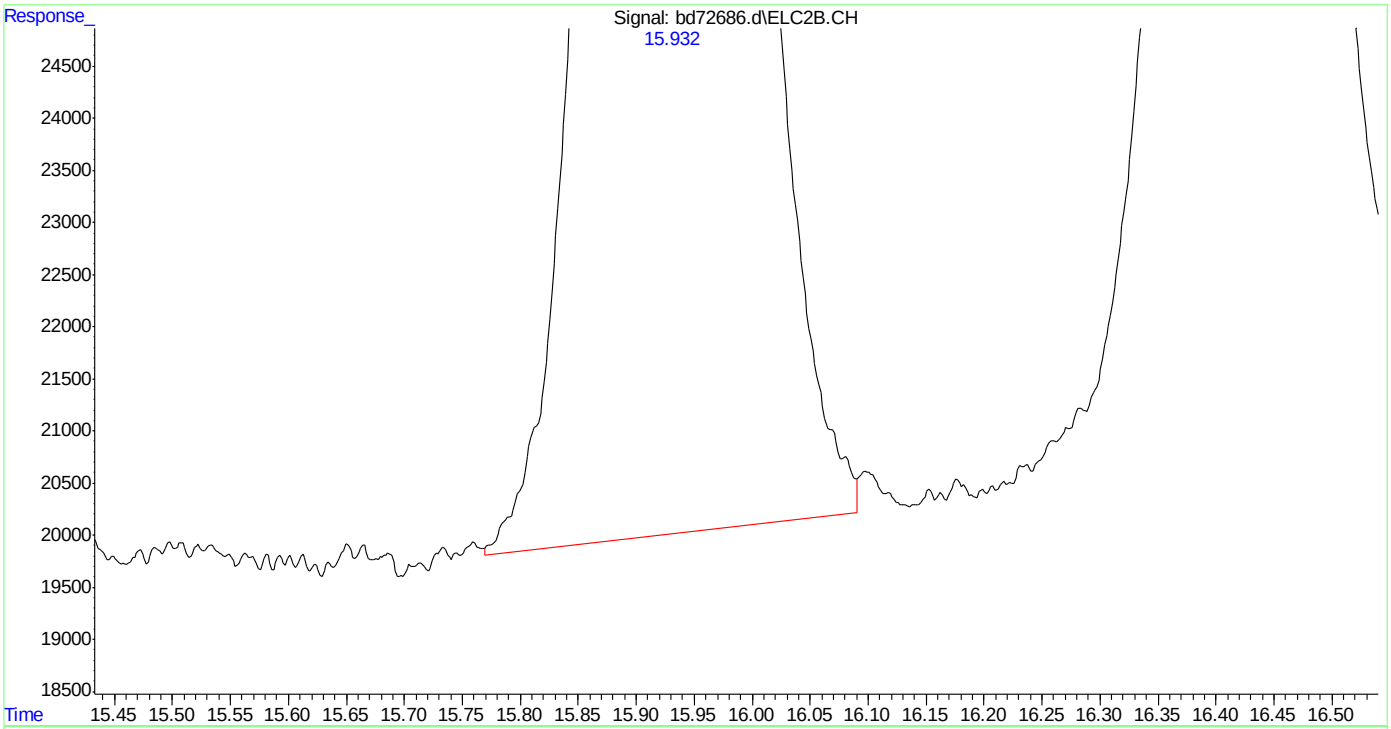
bd160219master.M Fri Feb 19 12:08:58 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:21:33
Operator  : tonyf
Sample    : ic3752-5
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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

15.932min 4.786 ppb

response 2231303

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:09:05 2016

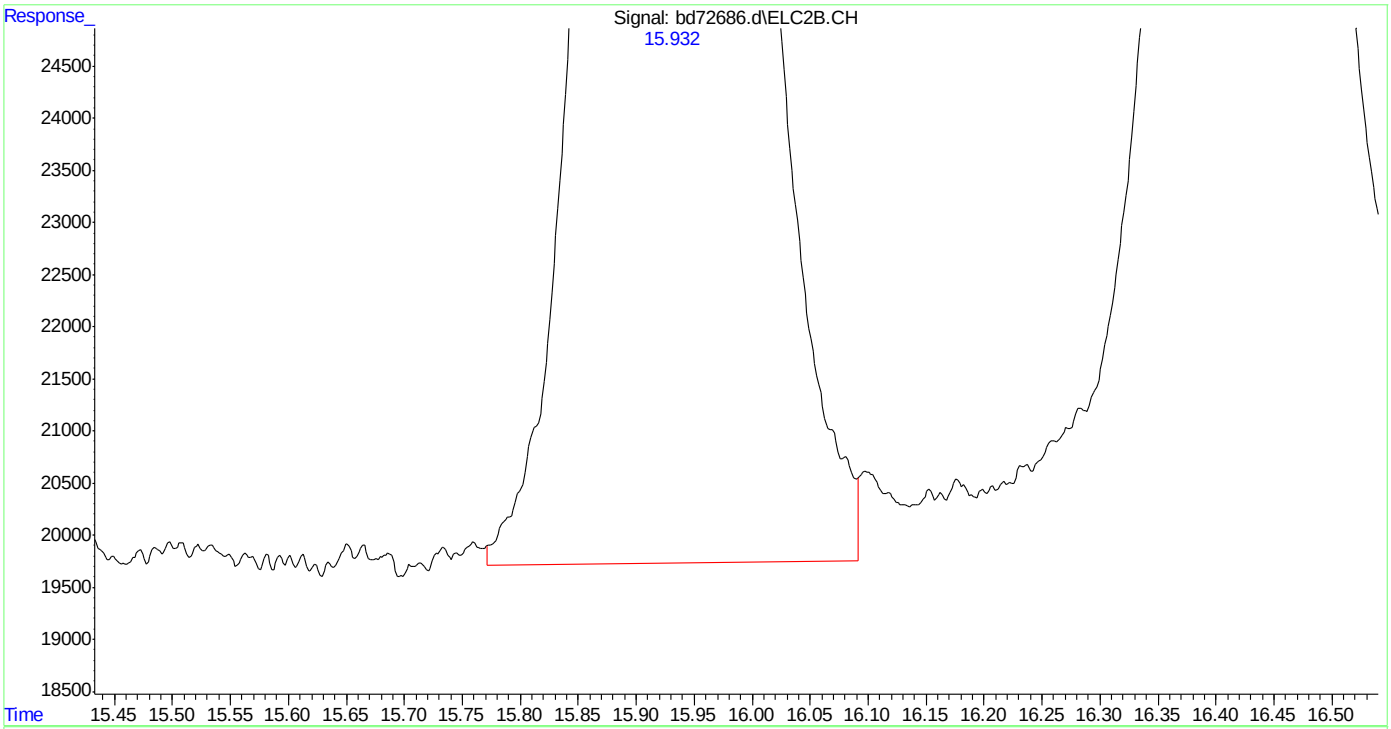
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
15.932min 4.901 ppb m
response 2284991

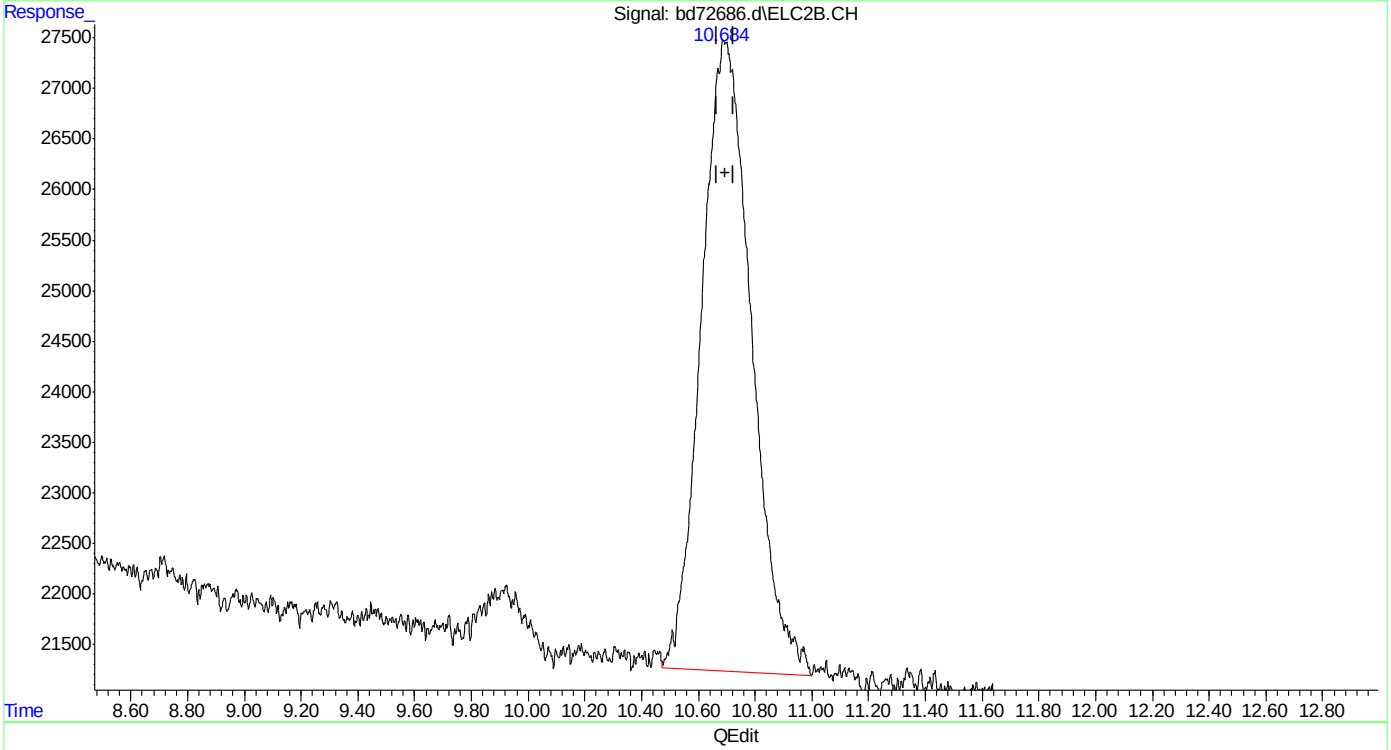
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:14 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
10.684min 4.929 ppb m
response 768191

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:27 2016 Page: 1

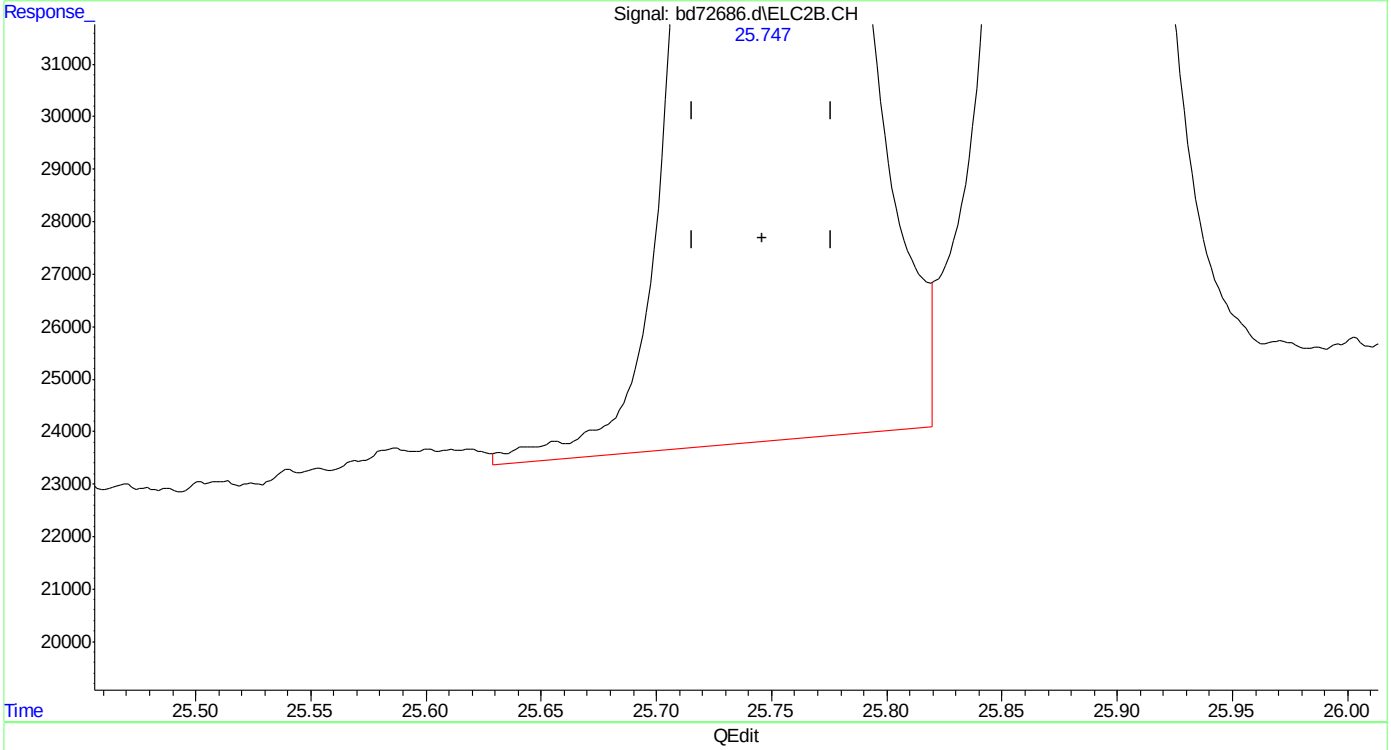
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
25.747min 5.006 ppb
response 2305795

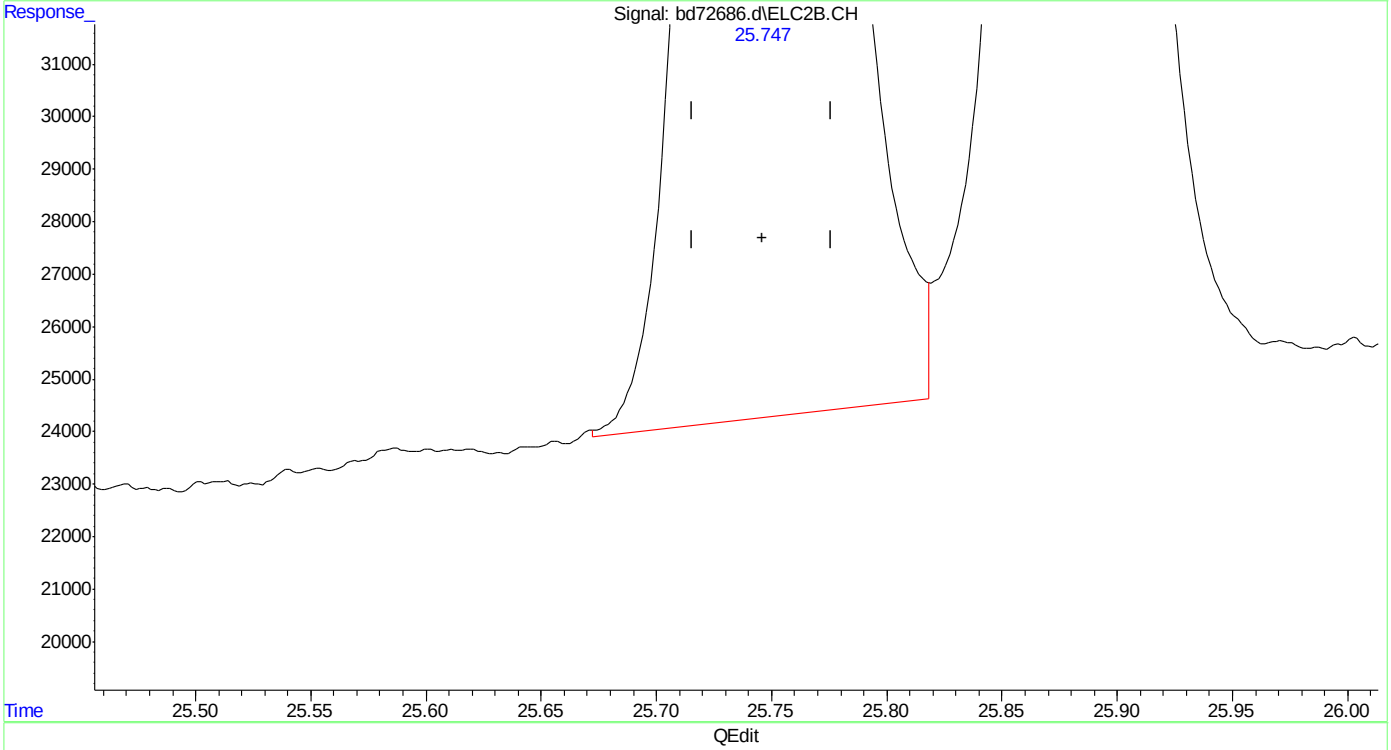
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72686.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:21:33
Operator : tonyf
Sample : ic3752-5
Misc : gc25978,gbd3572,,,,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: Feb 19 12:05:52 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial 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
25.747min 4.900 ppb m
response 2257211

(+) = Expected Retention Time

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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	16.422	1412065	1.927	ppb	m
Spiked Amount 50.000		Recovery =	3.85%		
9) s 2,3,4-trifluorotoluene	21.238	1015129	1.784	ppb	m
Spiked Amount 50.000		Recovery =	3.57%		
25) s fluorobenzene #2	16.427	710788	2.004	ppb	m
Spiked Amount 50.000		Recovery =	4.01%		
27) s 2,3,4-trifluorotoluen...	21.241	375383	1.825	ppb	
Spiked Amount 50.000		Recovery =	3.65%		
Target Compounds					
1) h rt5.5-7	7.470	1181221	2.090	ppb	m
2) h rt7/10	9.920	1423940	2.215	ppb	m
3) mtbe	10.690	573857	1.980	ppb	m
4) h rt10/13	15.200	1543987	2.195	ppb	m
5) benzene	15.935	1508329	1.942	ppb	m
8) toluene	20.223	1483744	1.905	ppb	m
11) h rt20/25	22.840	2002361	2.479	ppb	m
13) ethylbenzene	23.173	1597064	2.033	ppb	
14) m,p-xylene	23.310	3360397	4.108	ppb	
15) o-xylene	24.031	1696702	2.058	ppb	
16) h decane	24.930	2500365	2.905	ppb	m
17) t 1,3,5-trimethylbenzene	25.270	1822082	1.890	ppb	m
18) 1,2,4-trimethylbenzene	25.749	1811882	2.081	ppb	m
19) h butylcyclohexane	25.908	2416889	2.641	ppb	m
20) naphthalene	28.755	633669	1.476	ppb	m
23) mtbe #2	10.705	319987	2.043	ppb	m
24) benzene #2	15.931	943892	2.028	ppb	
26) toluene #2	20.223	898559	2.095	ppb	
28) ethylbenzene #2	23.174	826337	2.111	ppb	
29) m,p-xylene #2	23.309	2027328	4.251	ppb	
30) o-xylene #2	24.028	873175	2.137	ppb	m
31) t 1,3,5-trimethylbenzen...	25.271	1355890	2.068	ppb	
32) 1,2,4-trimethylbenzen...	25.748	998600	2.174	ppb	m
33) naphthalene #2	28.753	472807	1.541	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	993959	2.162	ppb	m

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

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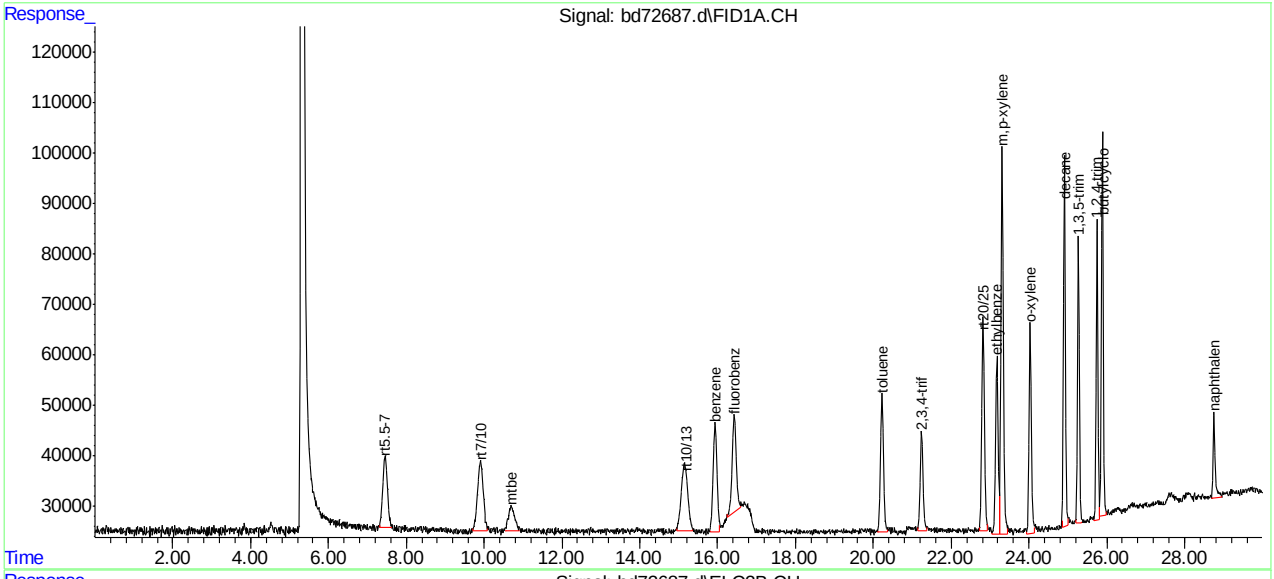
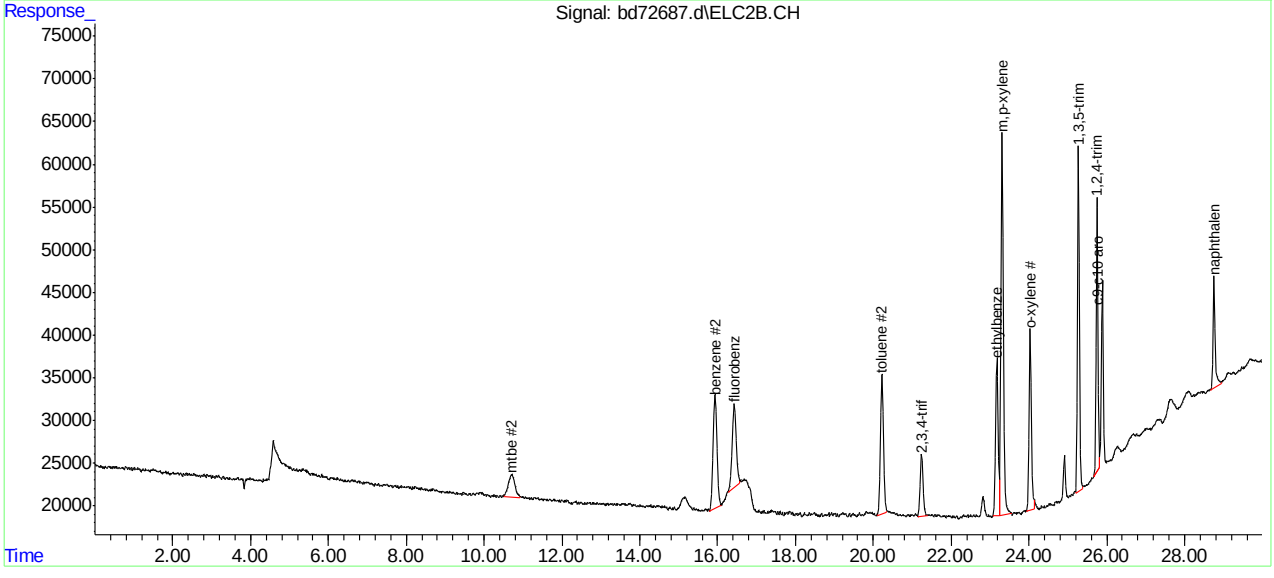
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

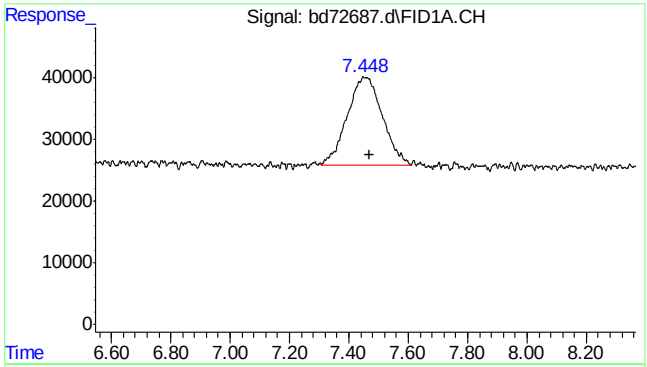
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:49:46 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



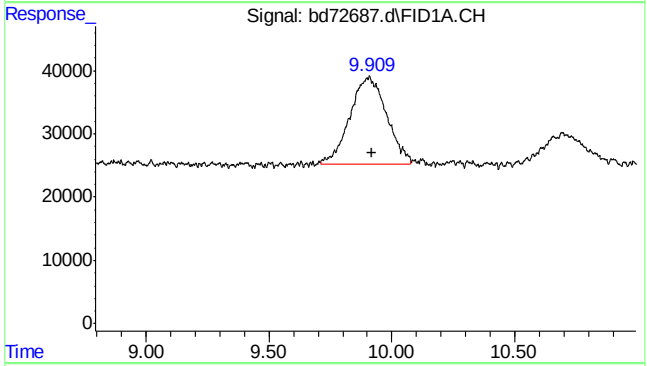


SGS ACCUTEST MC45799



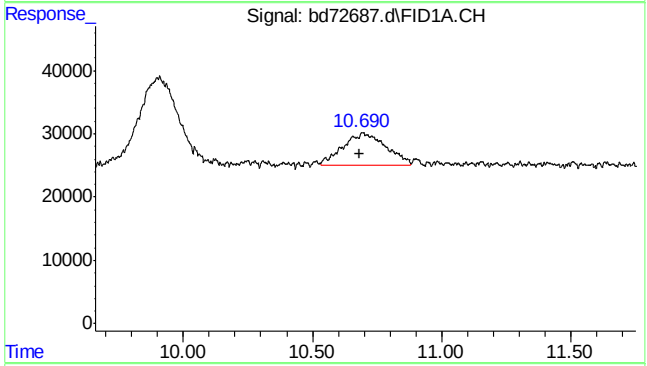
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1181221
Conc: 2.09 ppb m



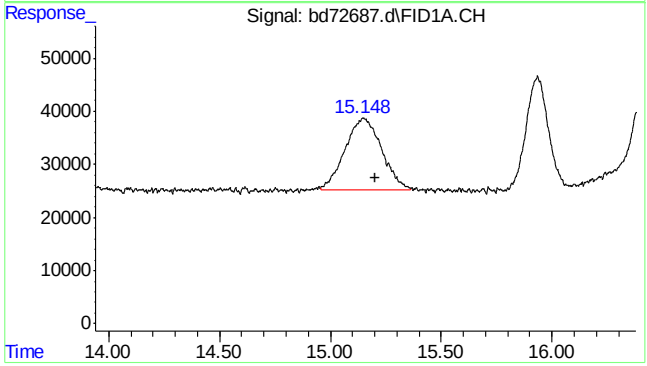
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1423940
Conc: 2.22 ppb m



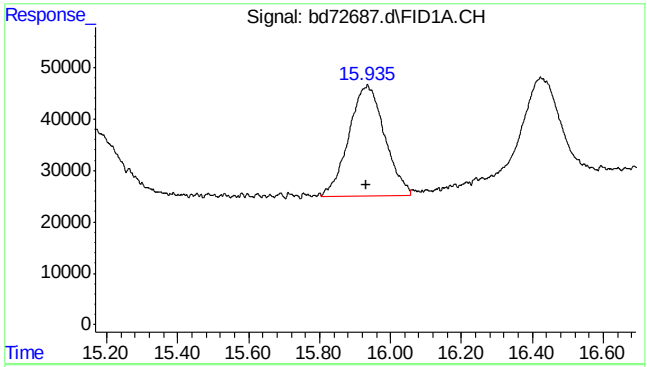
#3 mtbe

R.T.: 10.690 min
Delta R.T.: 0.007 min
Response: 573857
Conc: 1.98 ppb m



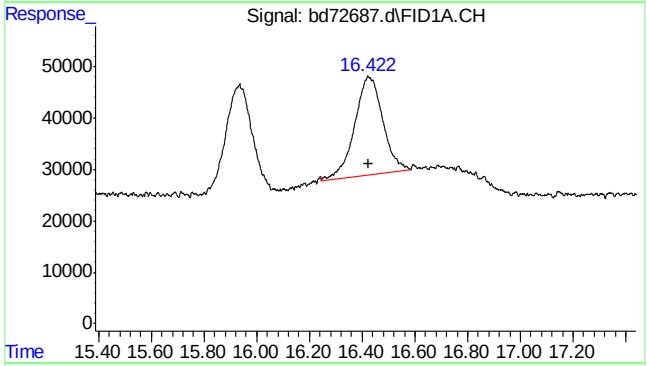
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1543987
Conc: 2.19 ppb m



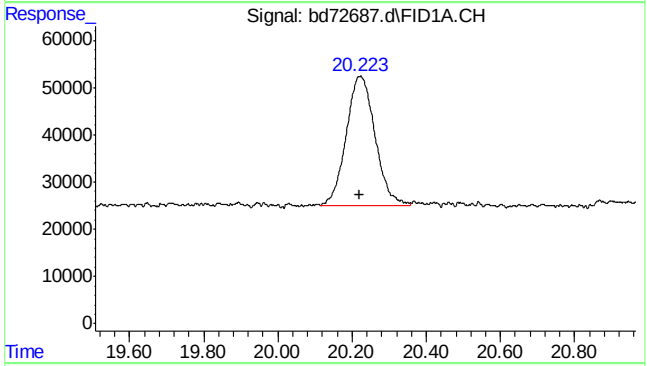
#5 benzene

R.T.: 15.935 min
Delta R.T.: 0.002 min
Response: 1508329
Conc: 1.94 ppb m



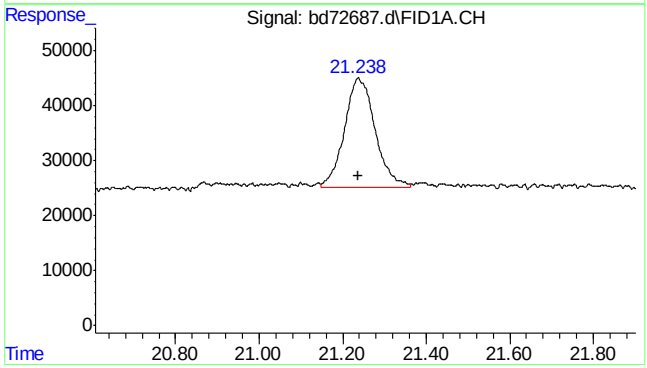
#6 fluorobenzene

R.T.: 16.422 min
Delta R.T.: -0.002 min
Response: 1412065
Conc: 1.93 ppb m



#8 toluene

R.T.: 20.223 min
Delta R.T.: 0.003 min
Response: 1483744
Conc: 1.90 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 1015129
Conc: 1.78 ppb m

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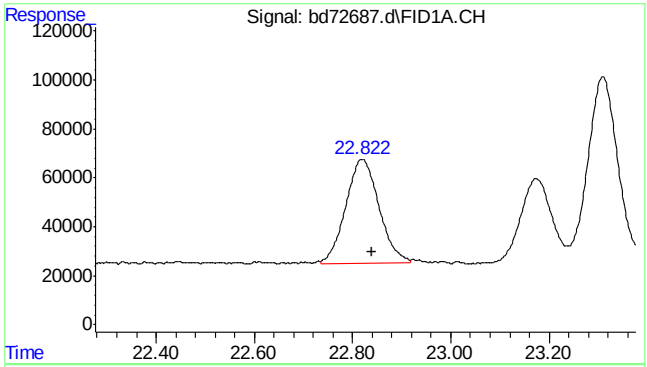
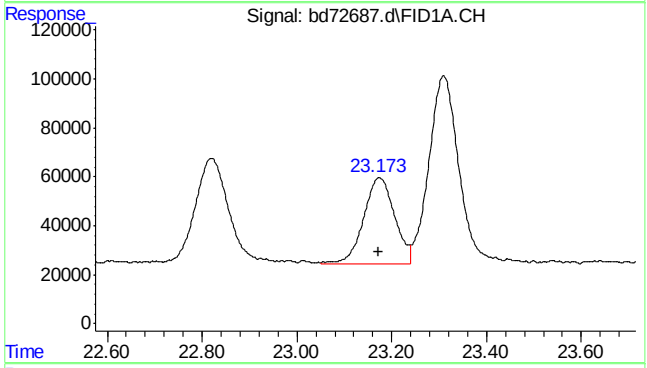


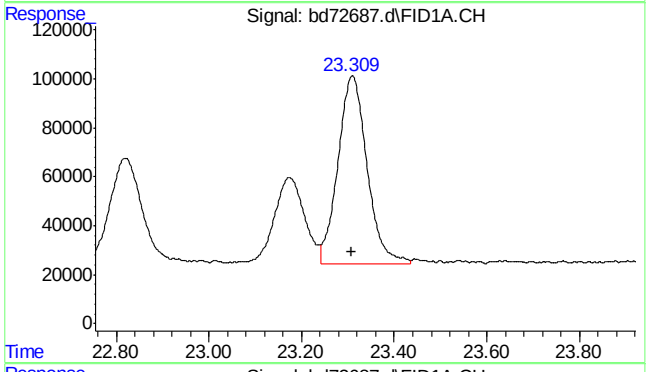
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2002361
Conc: 2.48 ppb m



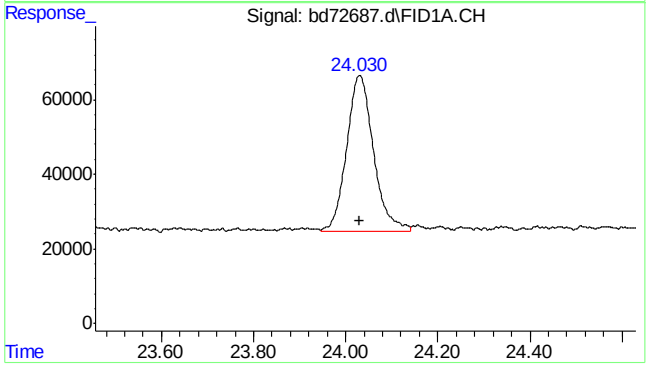
#13 ethylbenzene

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 1597064
Conc: 2.03 ppb



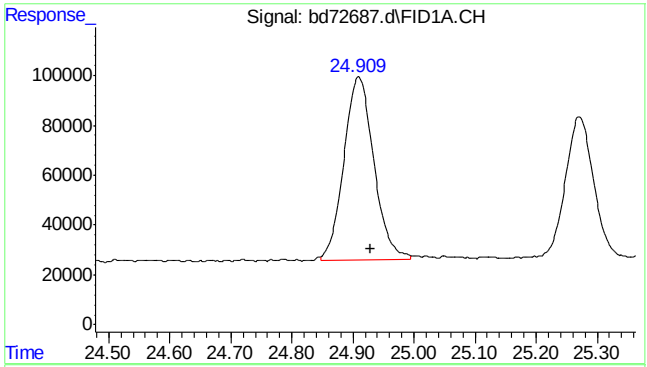
#14 m,p-xylene

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 3360397
Conc: 4.11 ppb



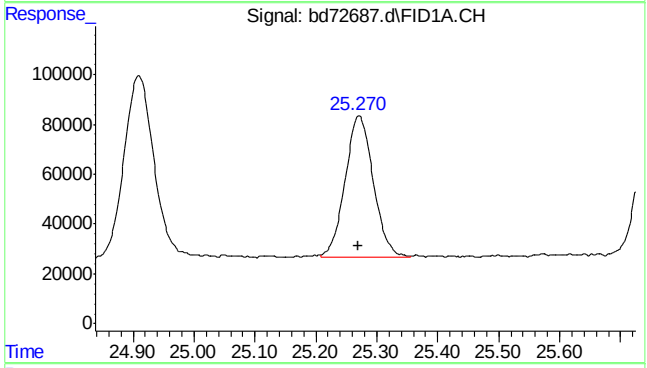
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 1696702
Conc: 2.06 ppb



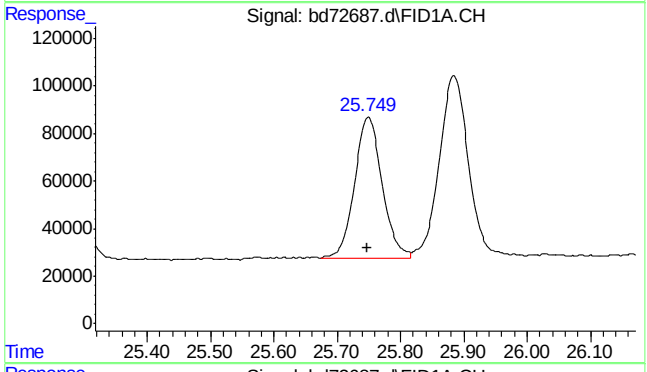
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 2500365
Conc: 2.91 ppb m



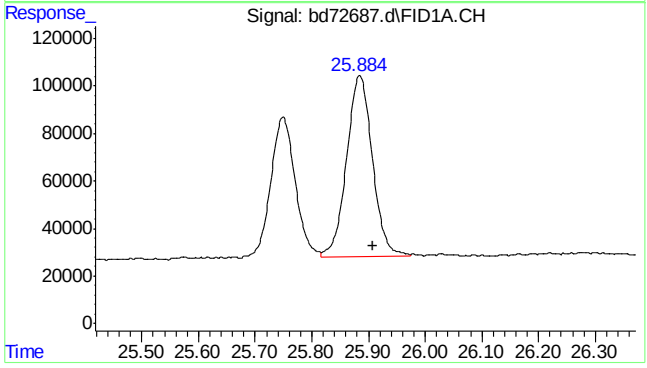
#17 1,3,5-trimethylbenzene

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 1822082
Conc: 1.89 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.749 min
Delta R.T.: 0.002 min
Response: 1811882
Conc: 2.08 ppb m



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 2416889
Conc: 2.64 ppb m

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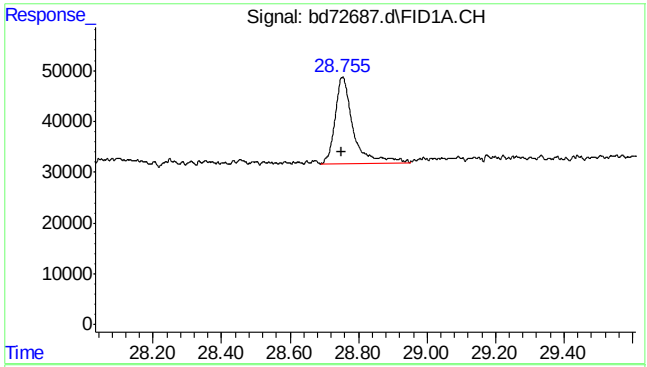
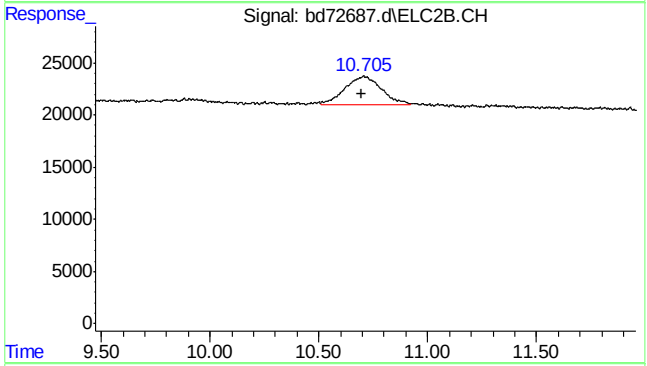


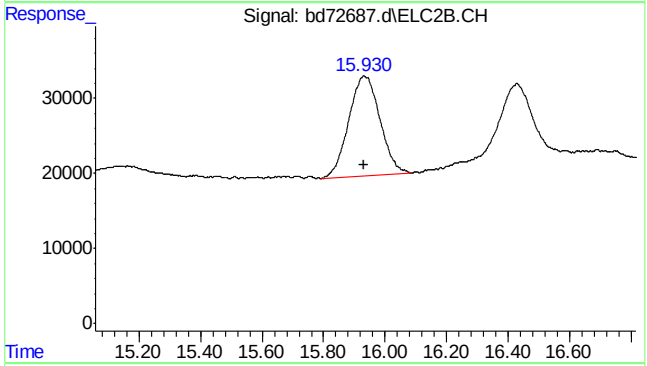
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 633669
Conc: 1.48 ppb m



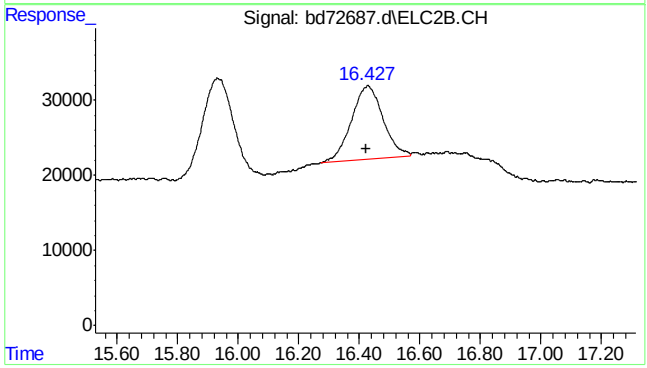
#23 mtbe #2

R.T.: 10.705 min
Delta R.T.: 0.009 min
Response: 319987
Conc: 2.04 ppb m



#24 benzene #2

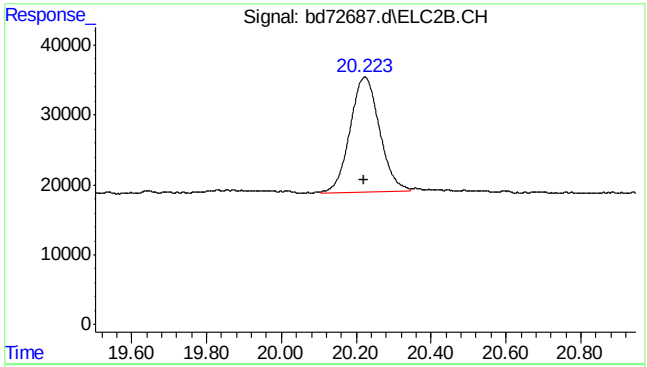
R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 943892
Conc: 2.03 ppb



#25 fluorobenzene #2

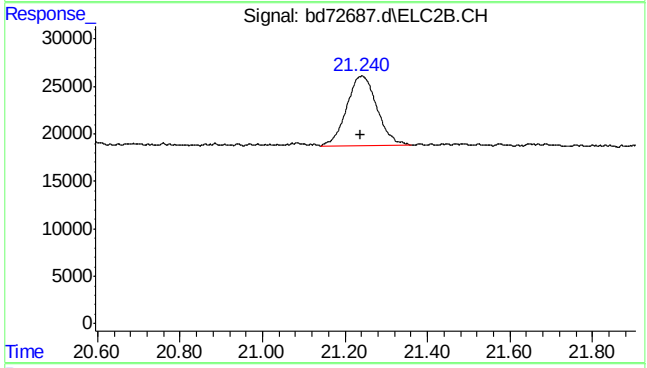
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 710788
Conc: 2.00 ppb m

SGS ACCUTEST MC45799



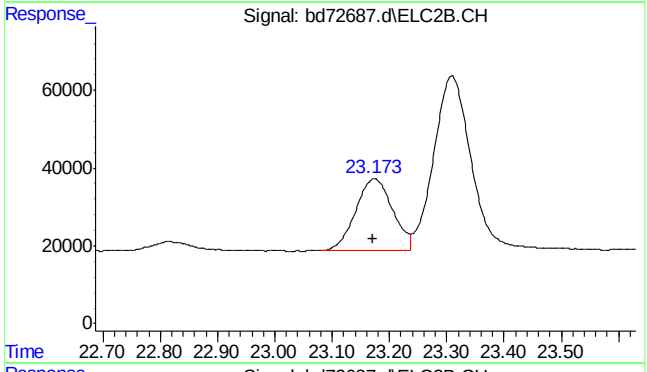
#26 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 898559
Conc: 2.10 ppb



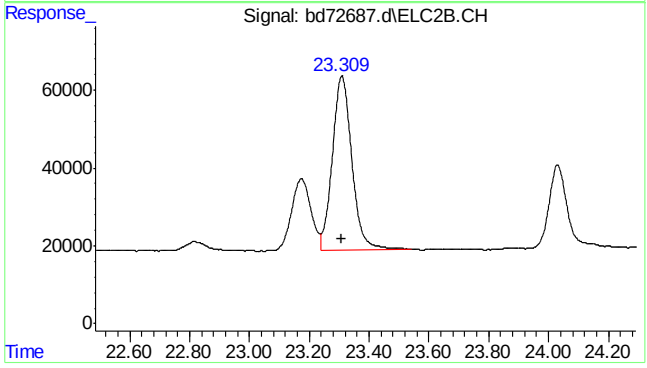
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 375383
Conc: 1.82 ppb



#28 ethylbenzene #2

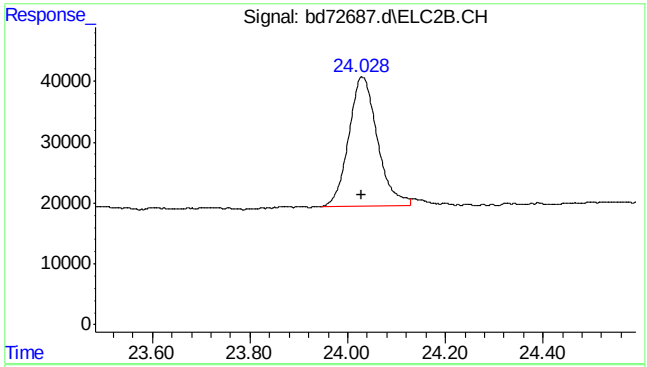
R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 826337
Conc: 2.11 ppb



#29 m,p-xylene #2

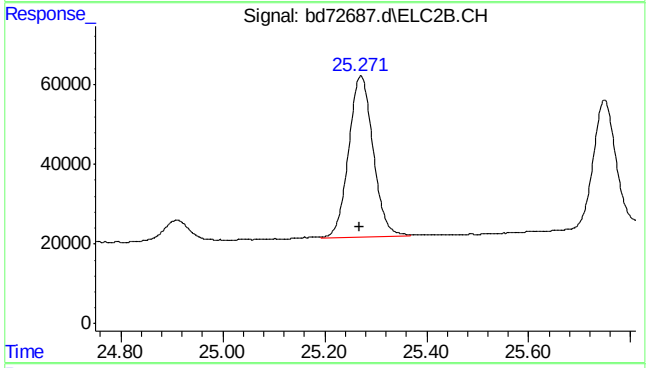
R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 2027328
Conc: 4.25 ppb

SGS ACCUTEST MC45799



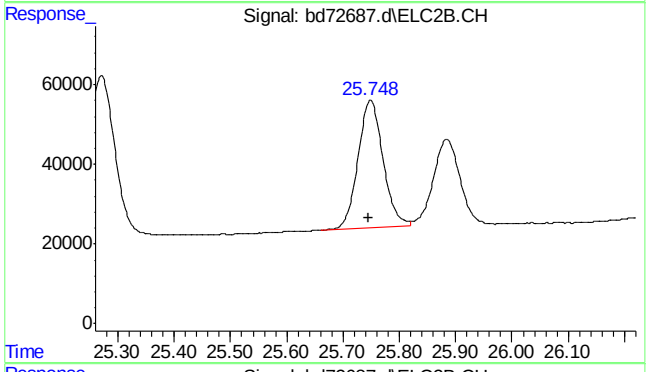
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 873175
Conc: 2.14 ppb m



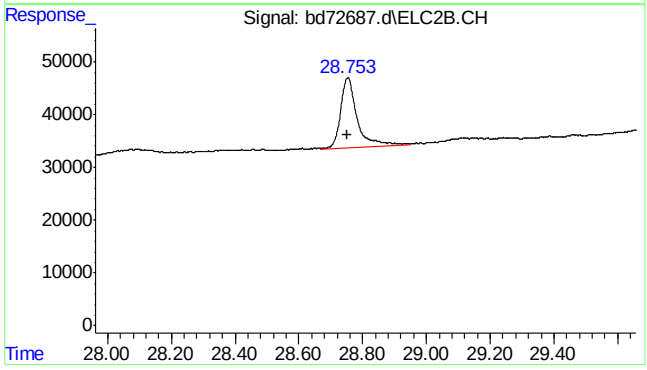
#31 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 1355890
Conc: 2.07 ppb



#32 1,2,4-trimethylbenzene #2

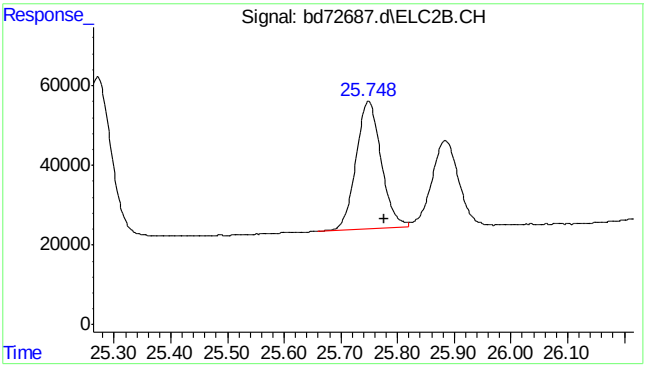
R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 998600
Conc: 2.17 ppb m



#33 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 472807
Conc: 1.54 ppb m

SGS ACCUTEST MC45799



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

R.T.:	25.777 min
Delta R.T.:	0.000 min
Response:	993959
Conc:	2.16 ppb m

7.5.15

7

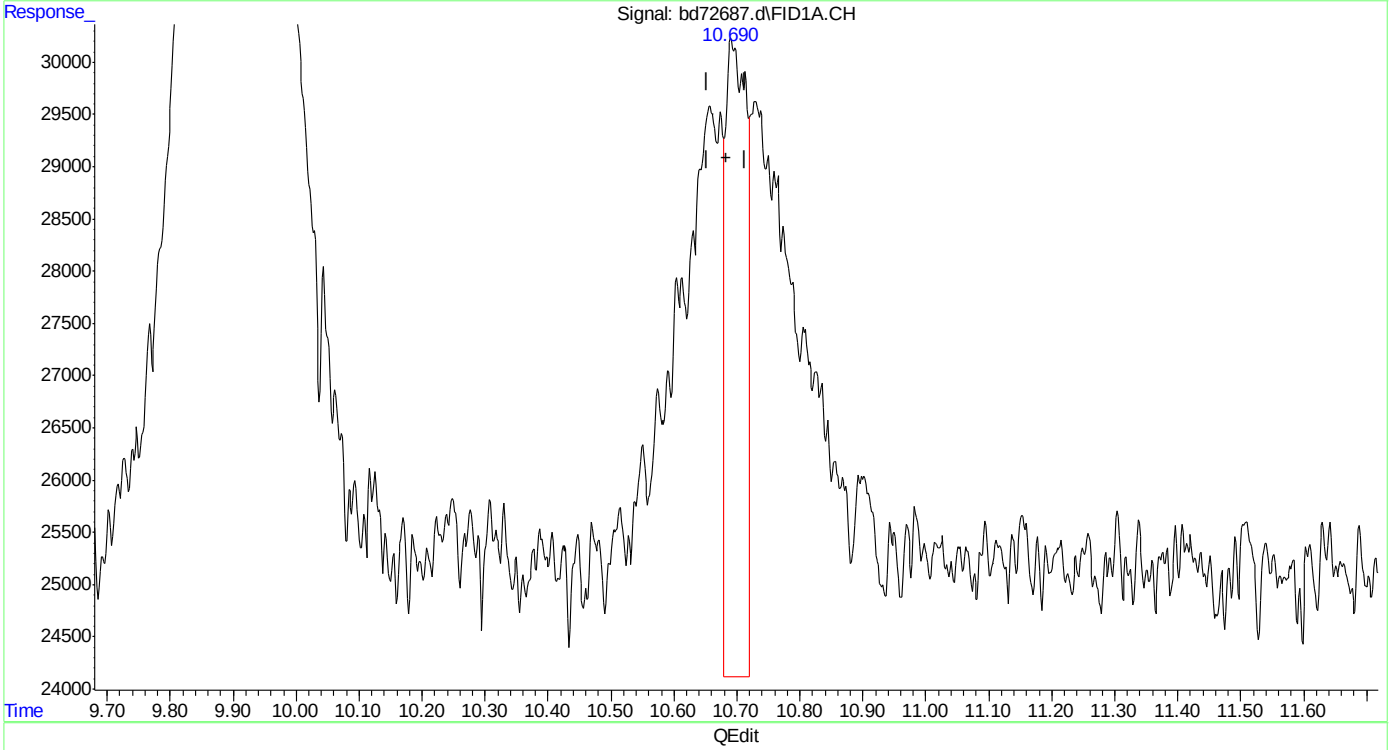
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(3) mtbe
10.692min 0.480 ppb
response 139132

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:08 2016

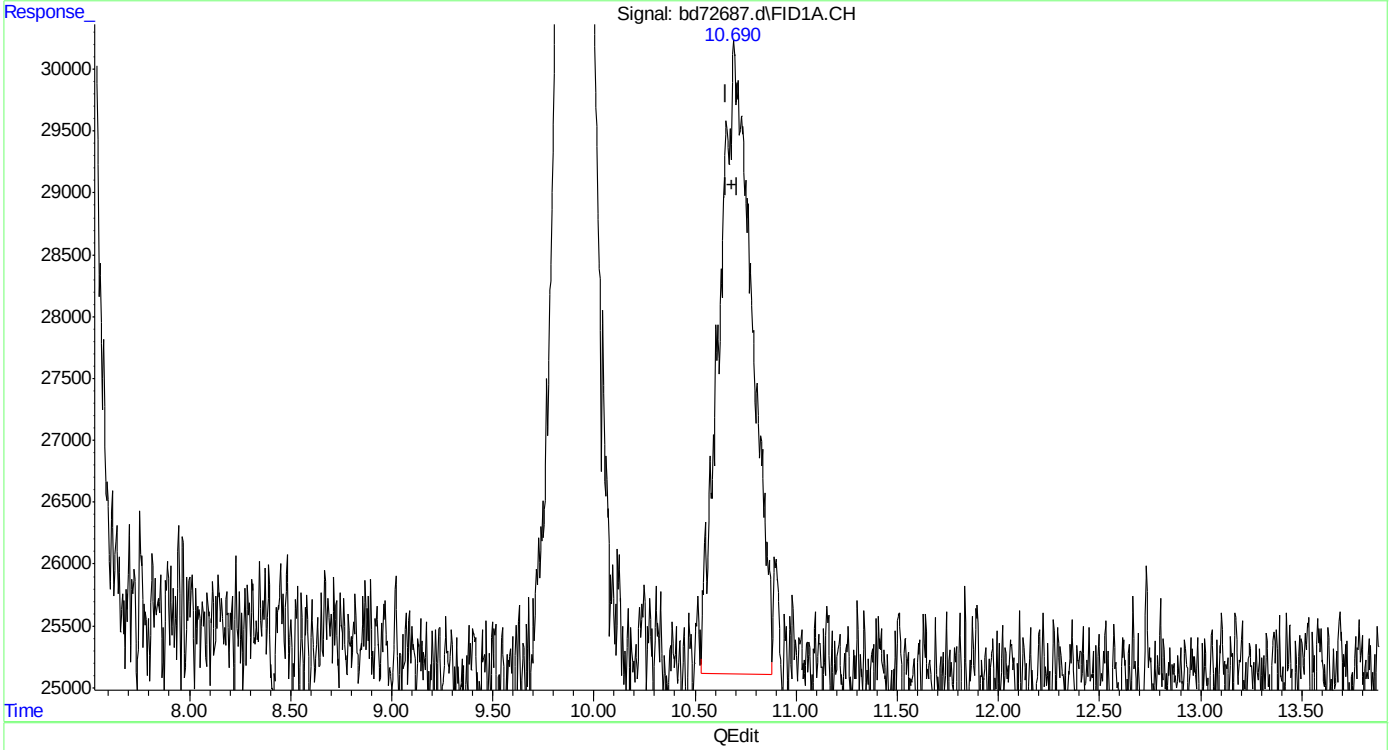
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(3) mtbe
10.690min 1.980 ppb m
response 573857

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :
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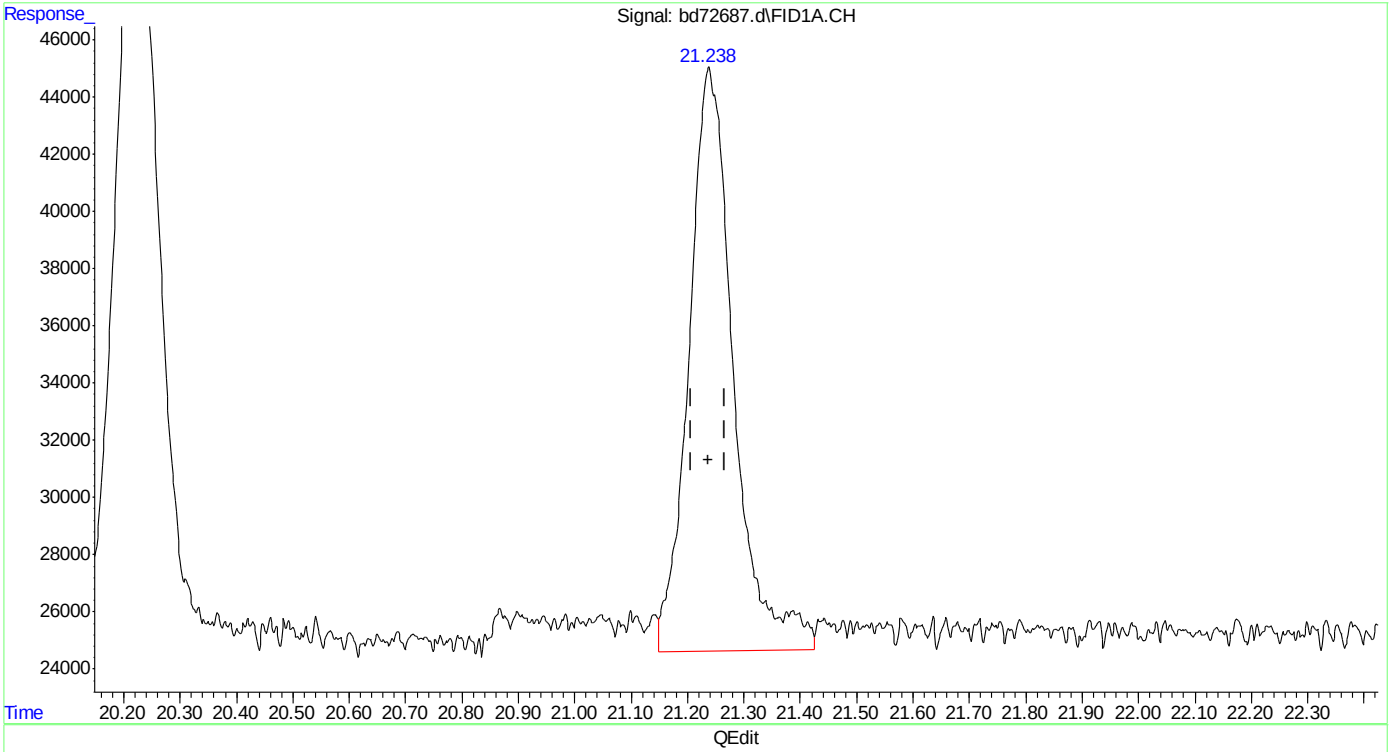


(9) 2,3,4-trifluorotoluene (s)

21.238min 1.972 ppb

response 1122116

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:43:28 2016

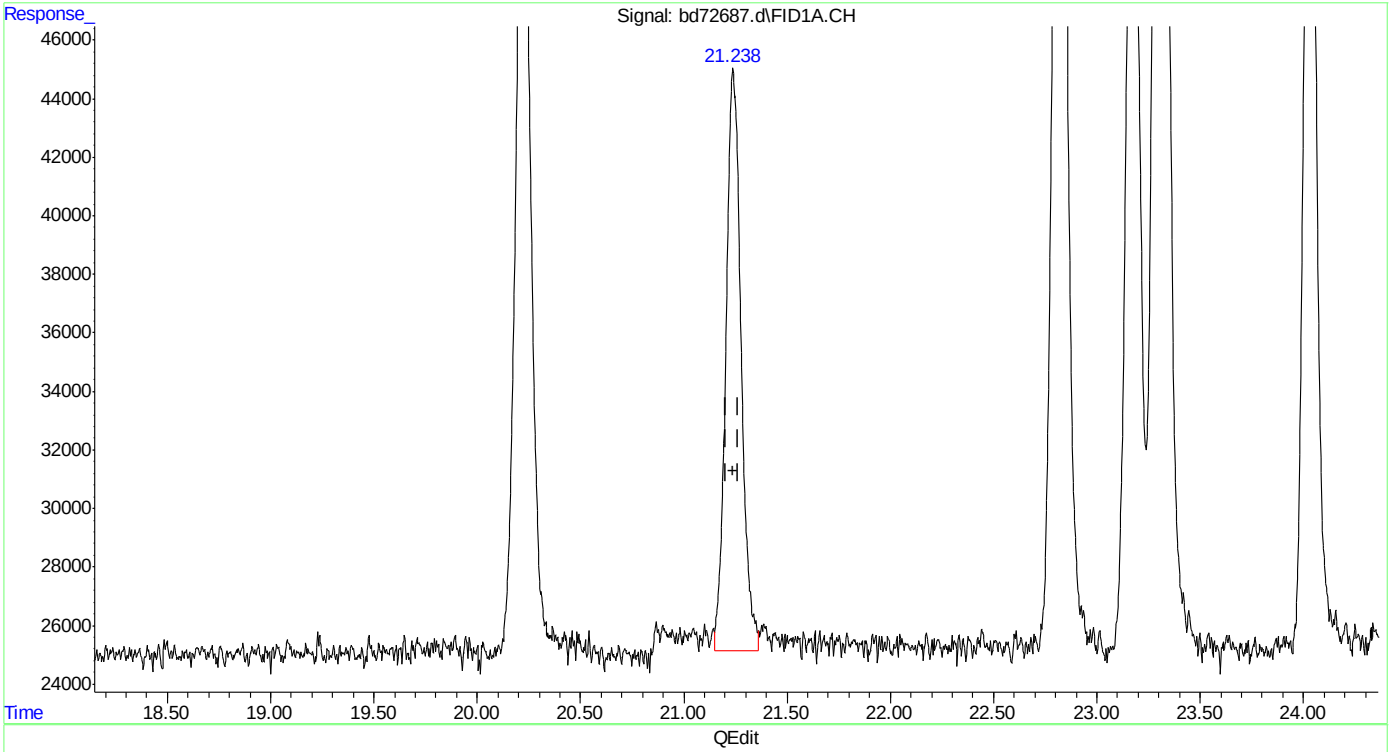
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(9) 2,3,4-trifluorotoluene (s)
21.238min 1.784 ppb m
response 1015129

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:43:45 2016 Page: 1

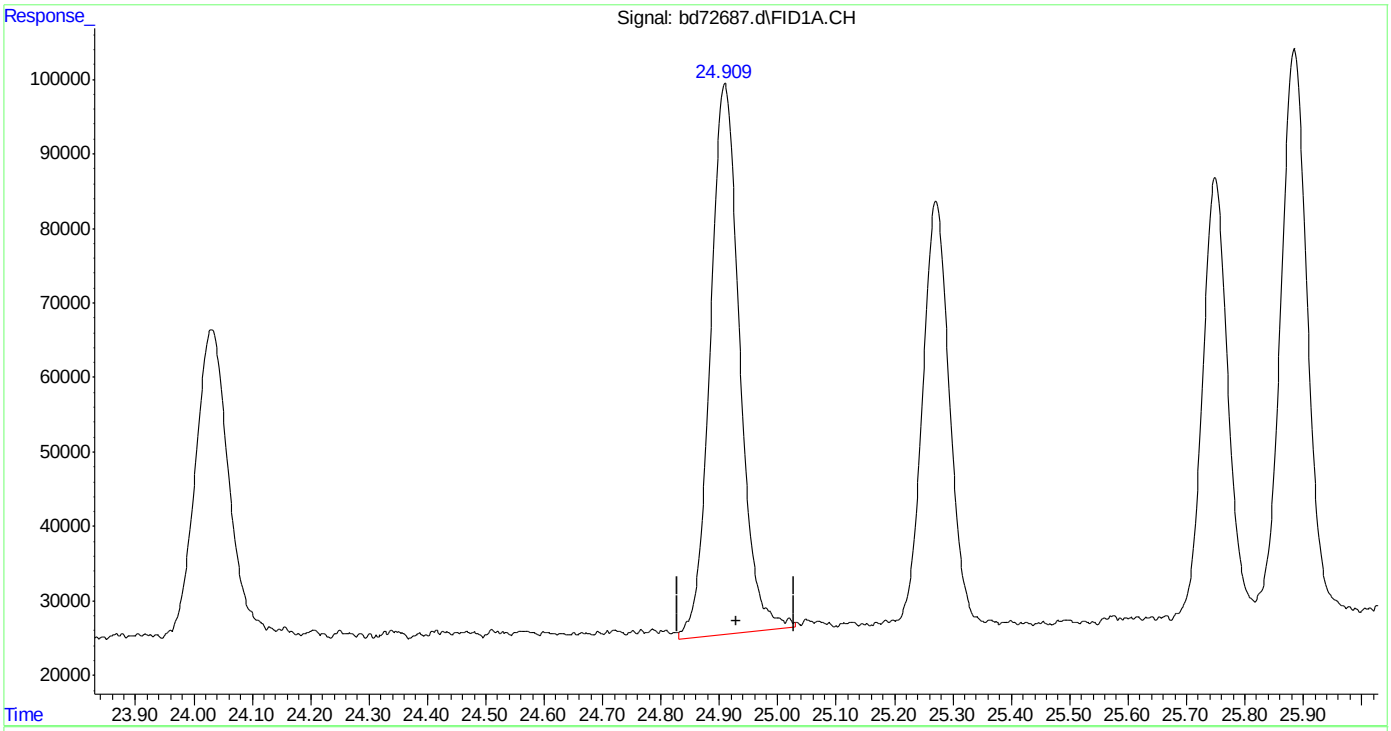
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(16) decane (h)
24.930min 3.013 ppb
response 2593178

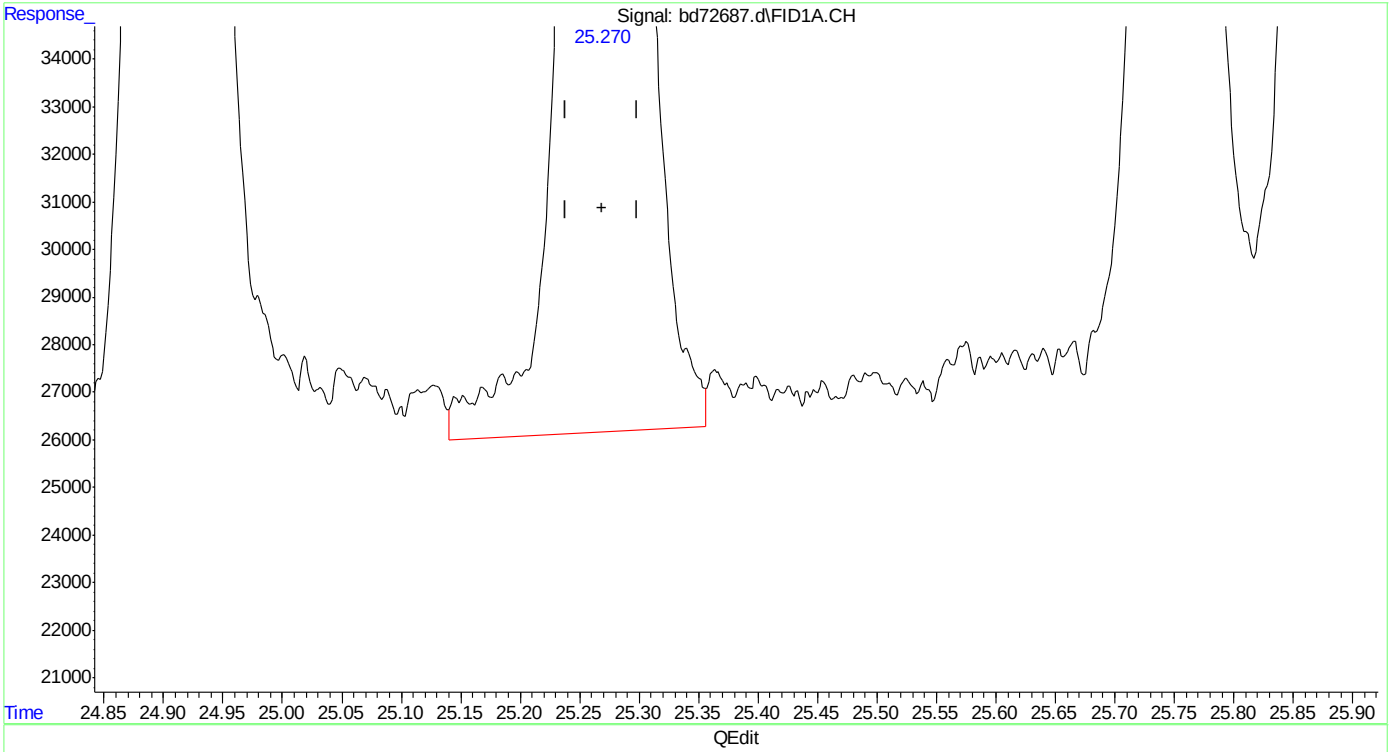
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(17) 1,3,5-trimethylbenzene (t)
25.271min 1.986 ppb
response 1914176

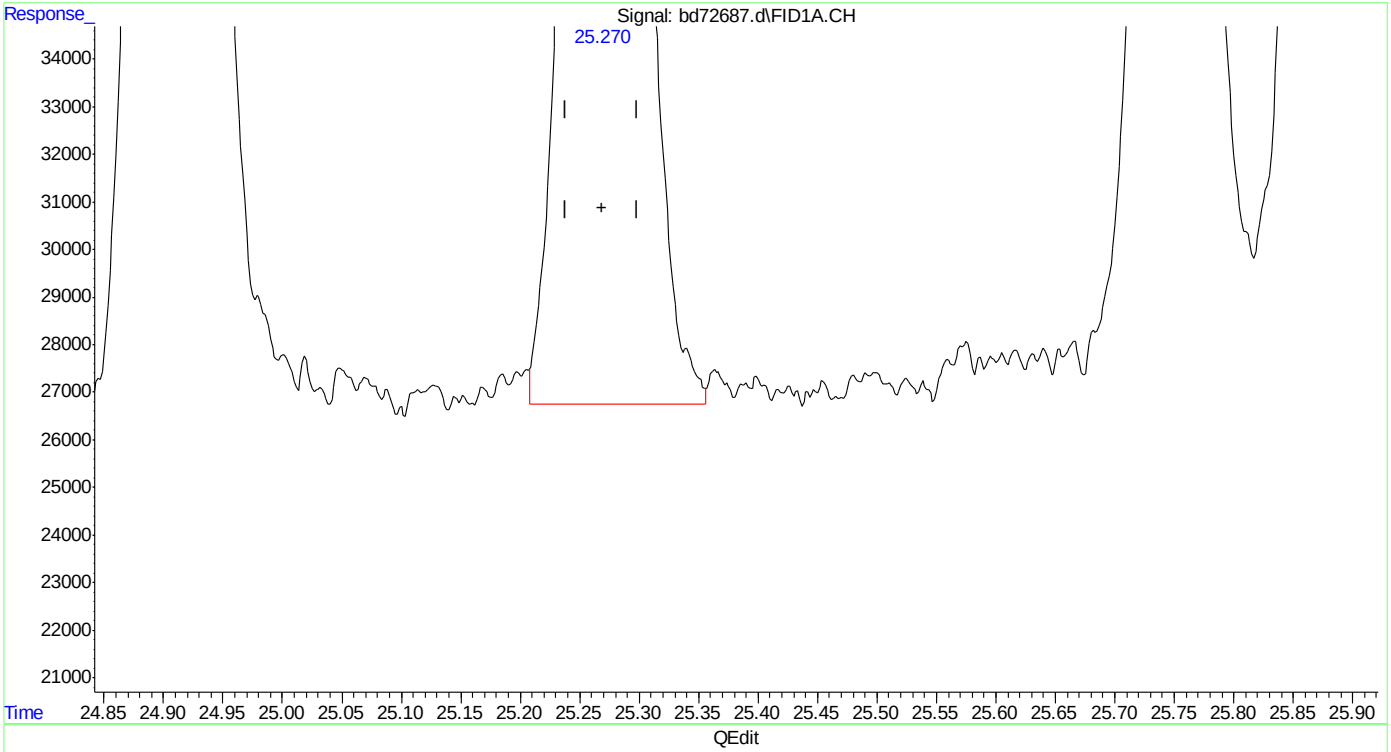
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(17) 1,3,5-trimethylbenzene (t)
25.270min 1.890 ppb m
response 1822082

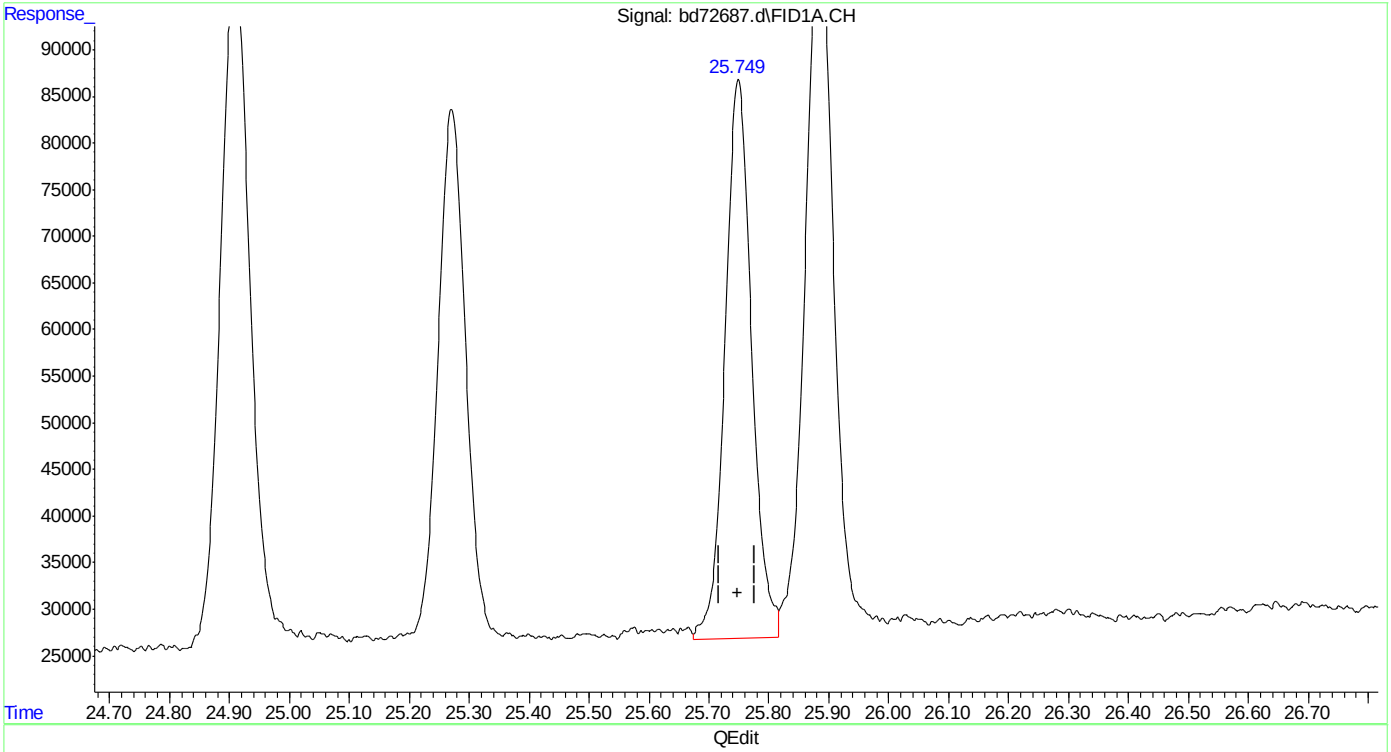
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(18) 1,2,4-trimethylbenzene
25.749min 2.134 ppb
response 1858310

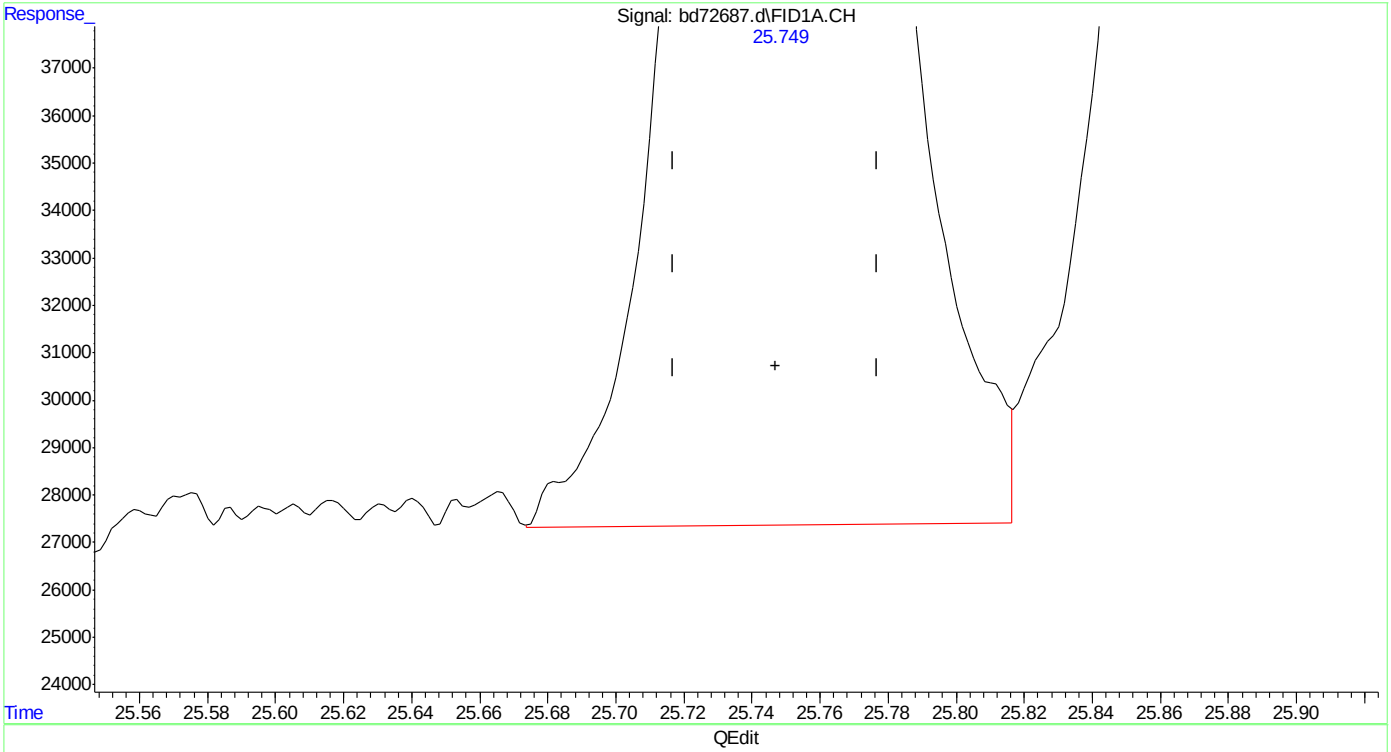
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(18) 1,2,4-trimethylbenzene
25.749min 2.081 ppb m
response 1811882

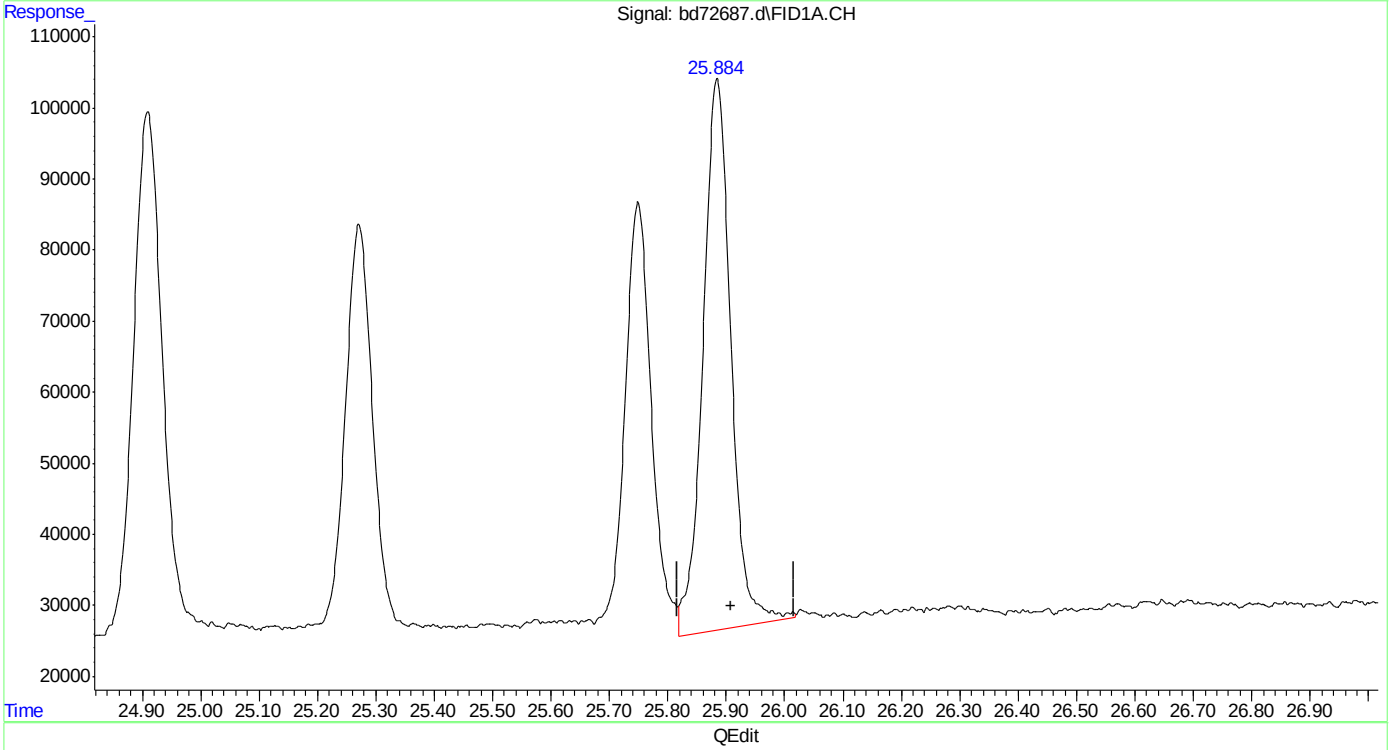
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:36 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(19) butylcyclohexane (h)
25.908min 2.819 ppb
response 2579118

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:40 2016

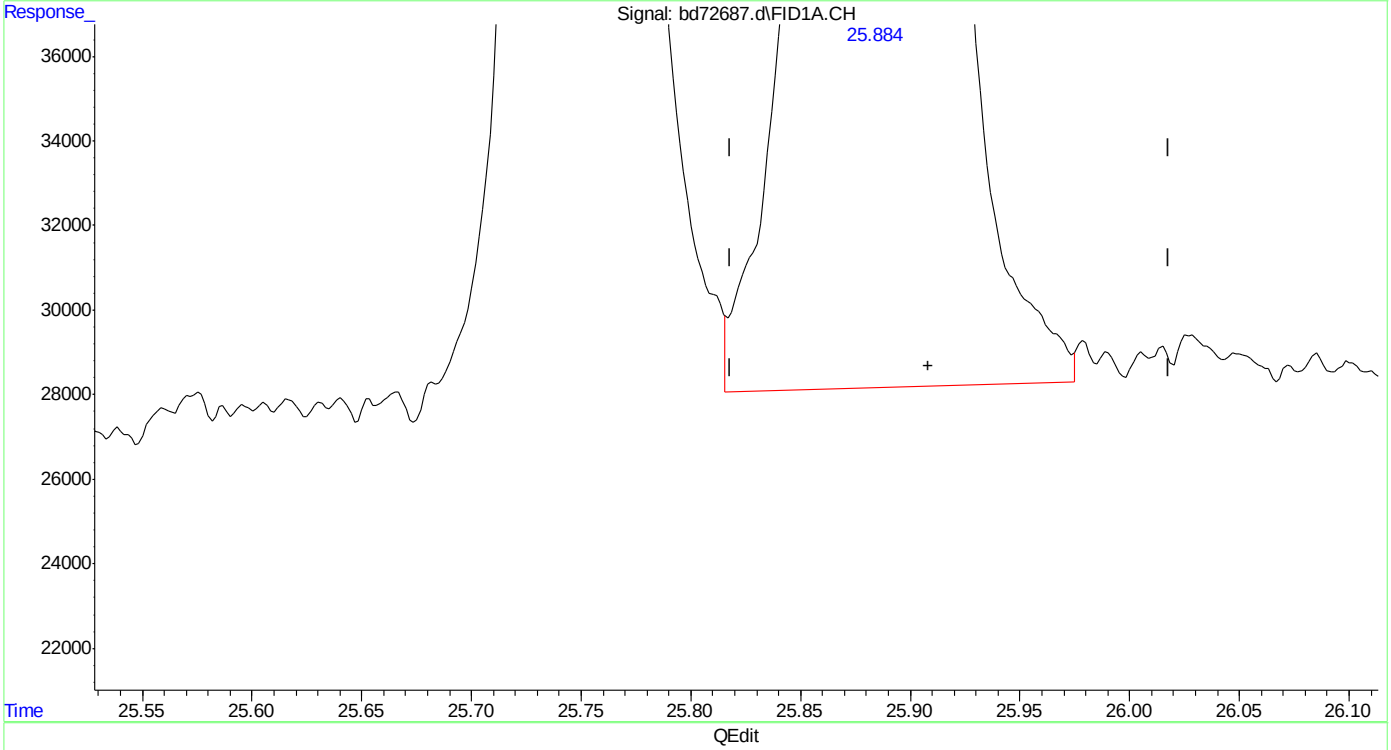
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(19) butylcyclohexane (h)
25.908min 2.641 ppb m
response 2416889

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:47 2016

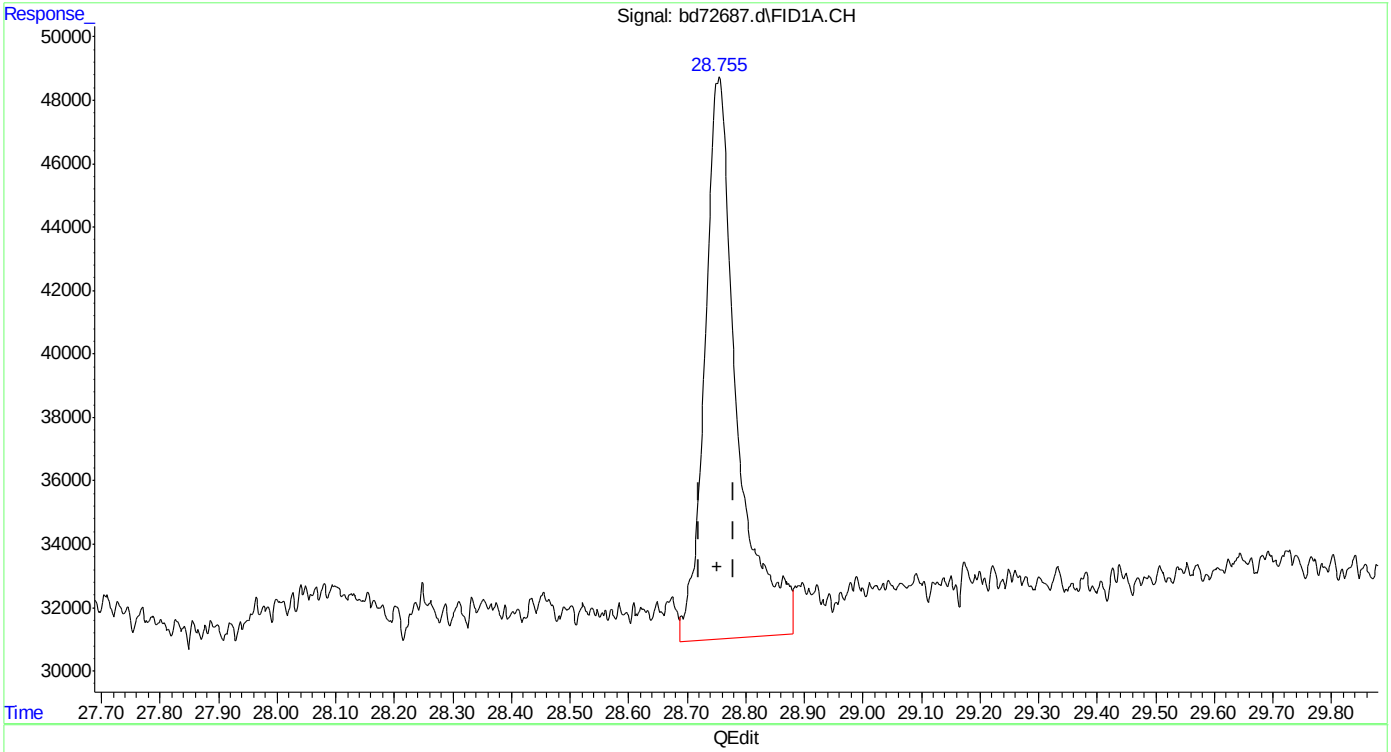
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(20) naphthalene
28.754min 1.572 ppb
response 674834

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:50 2016

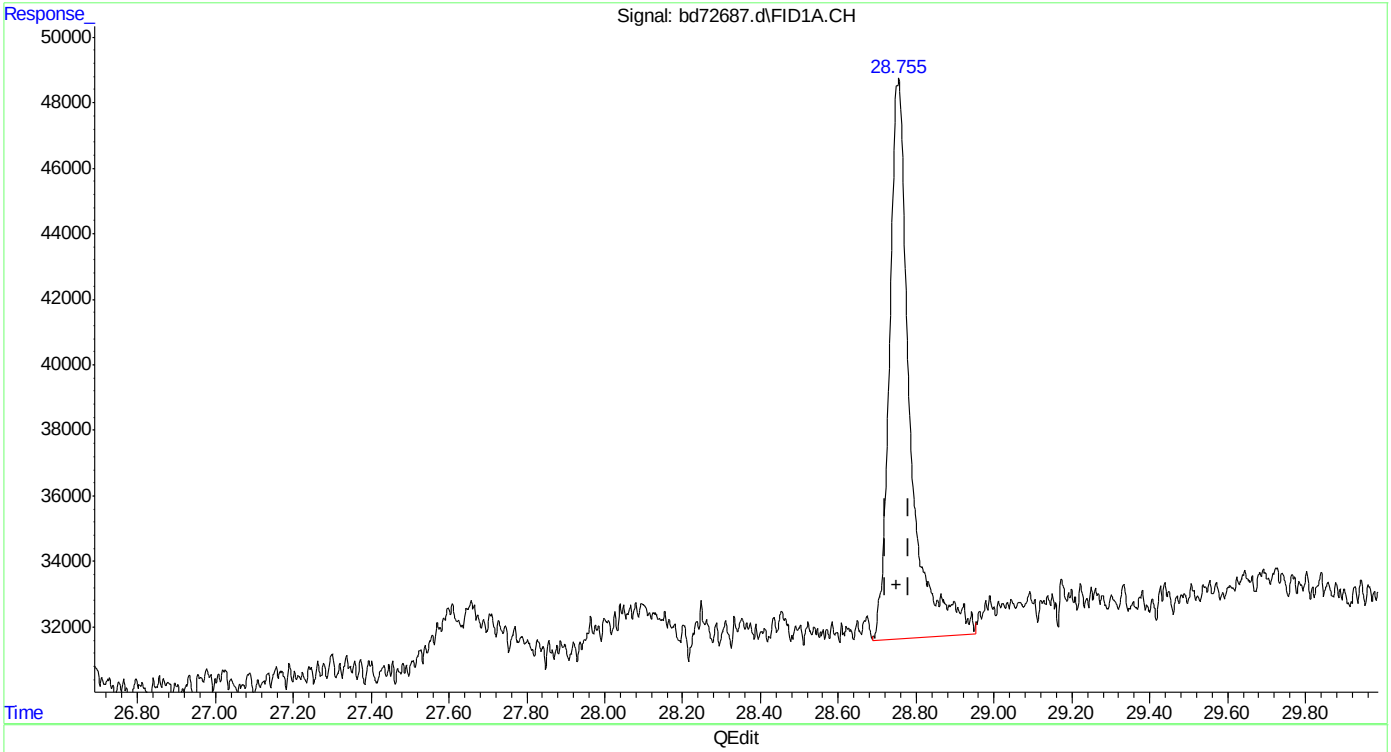
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(20) naphthalene
28.755min 1.476 ppb m
response 633669

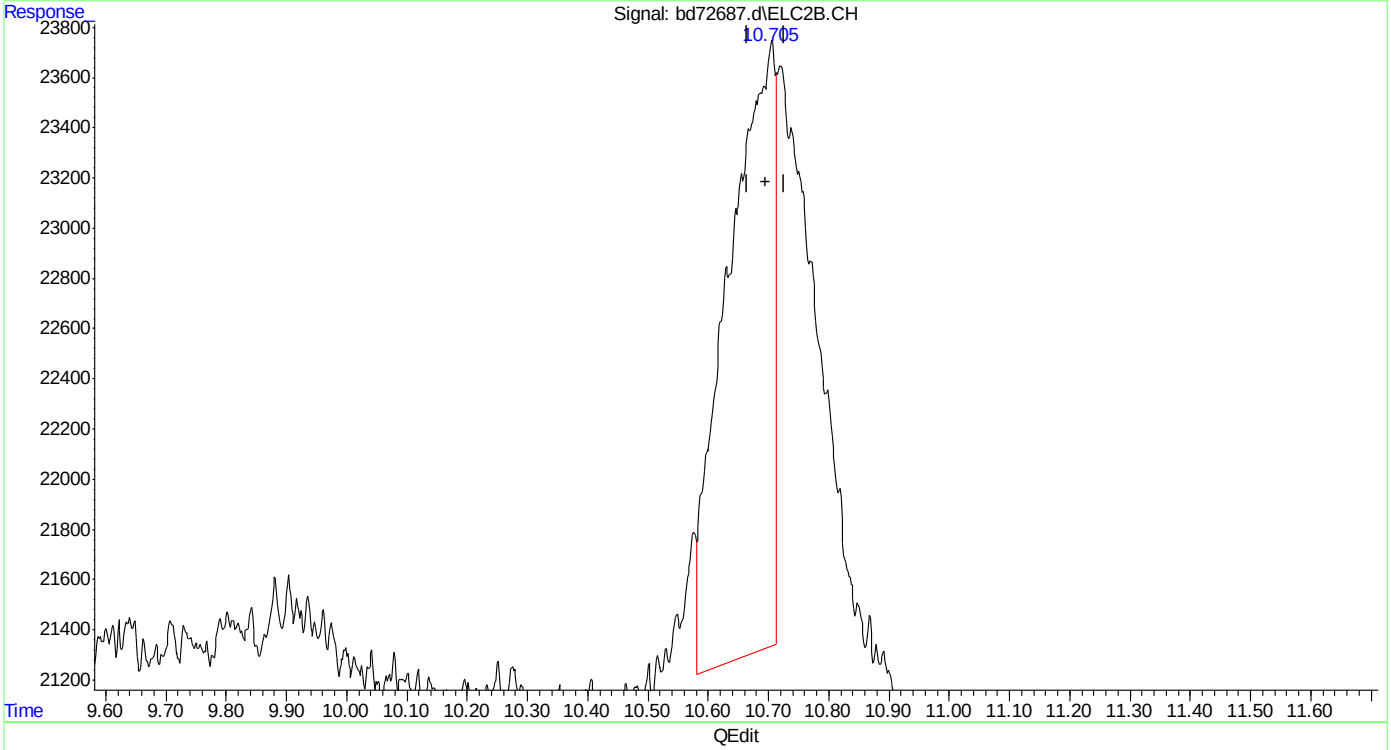
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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
10.706min 0.834 ppb
response 130605

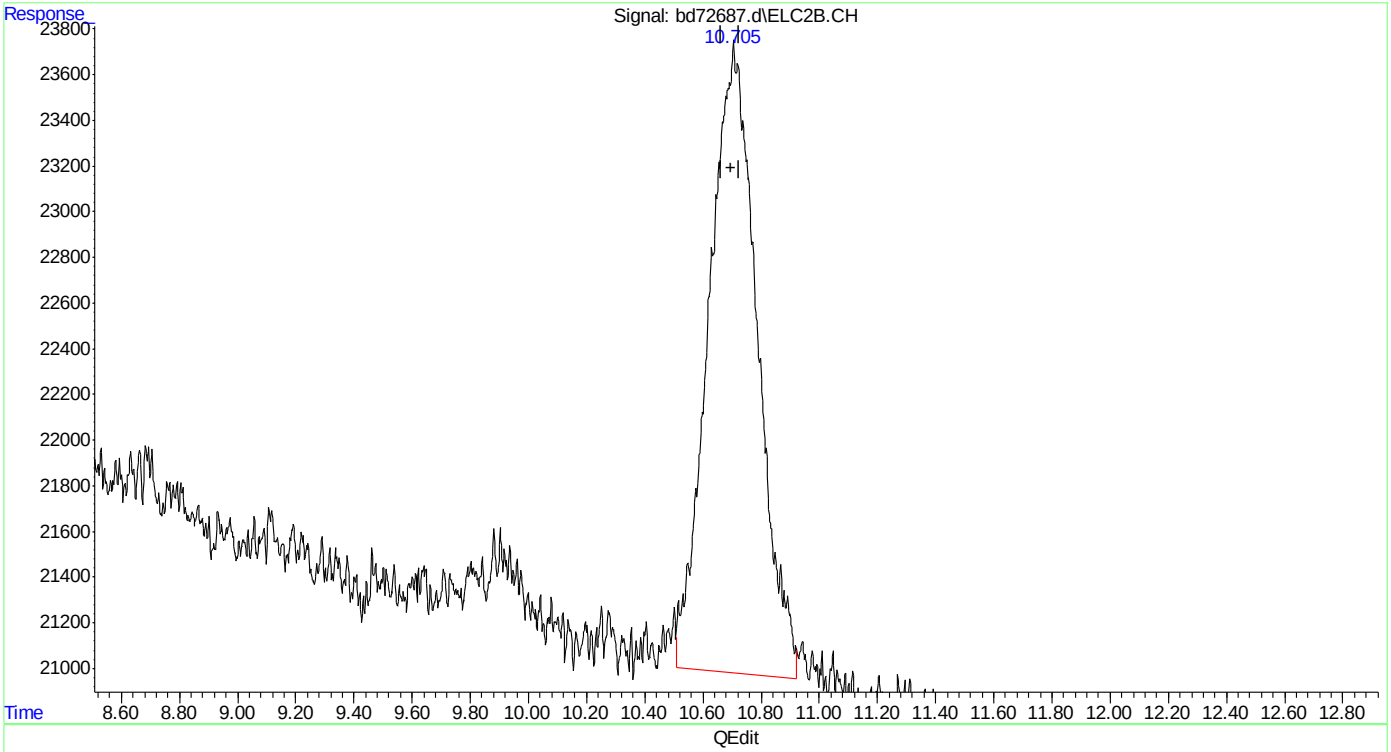
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:04 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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
10.705min 2.043 ppb m
response 319987

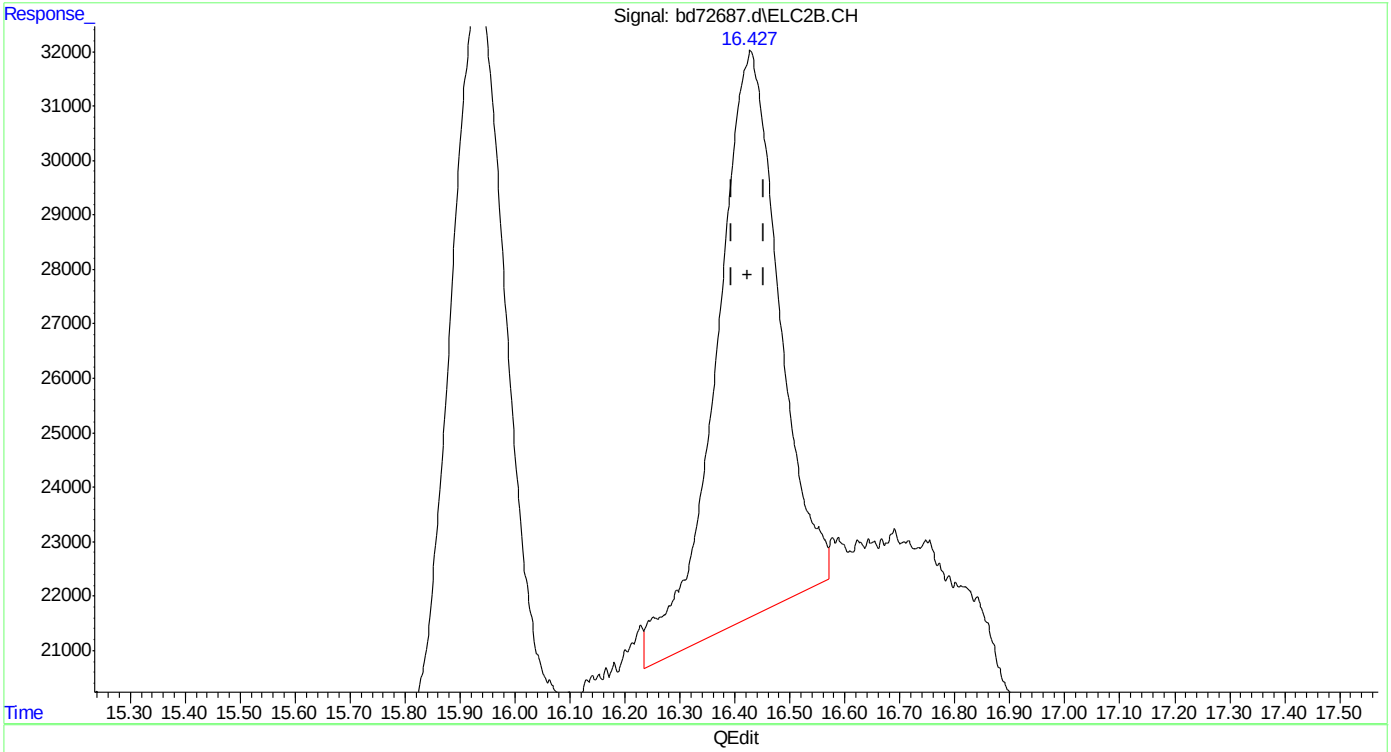
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(25) fluorobenzene #2 (s)
16.429min 2.332 ppb
response 827119

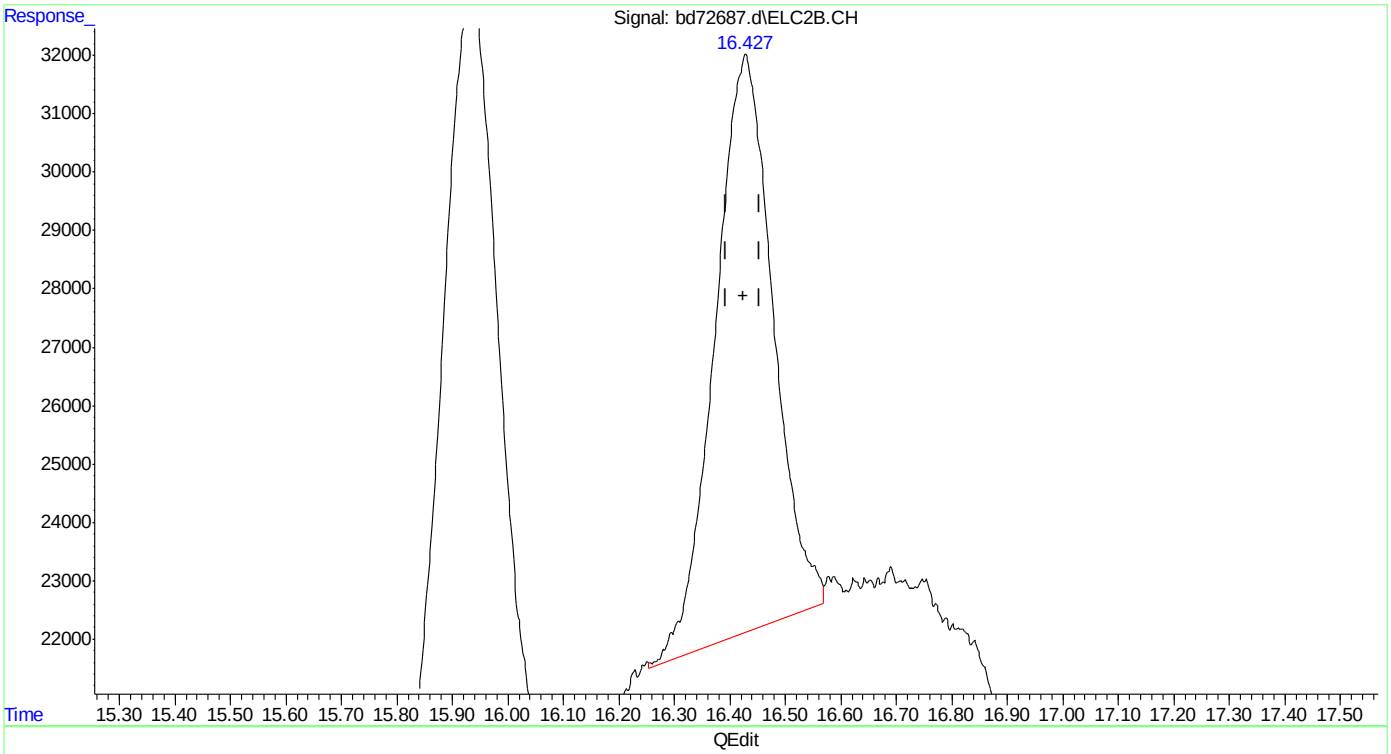
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:22 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :
```



(25) fluorobenzene #2 (s)

16.427min 2.036 ppb m

response 722326

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:45:32 2016

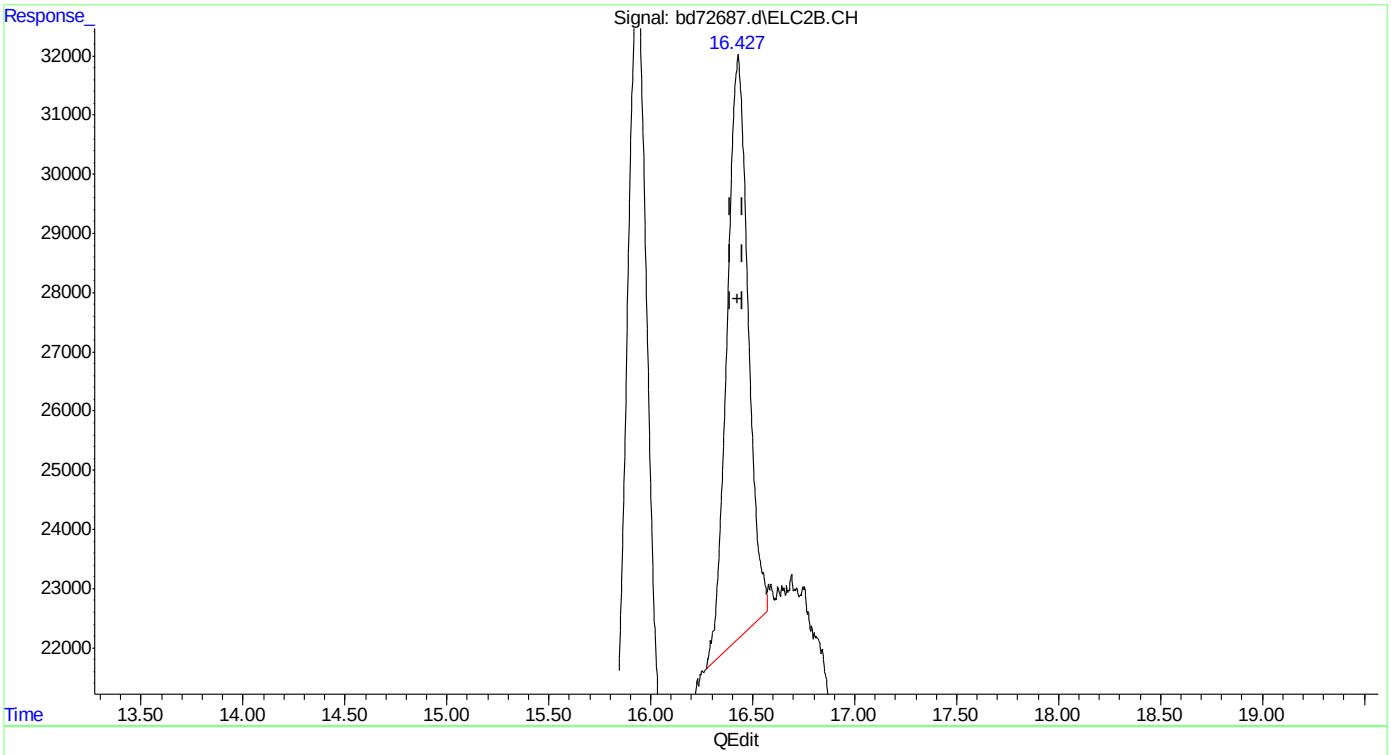
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(25) fluorobenzene #2 (s)
16.427min 2.004 ppb m
response 710788

(+) = Expected Retention Time

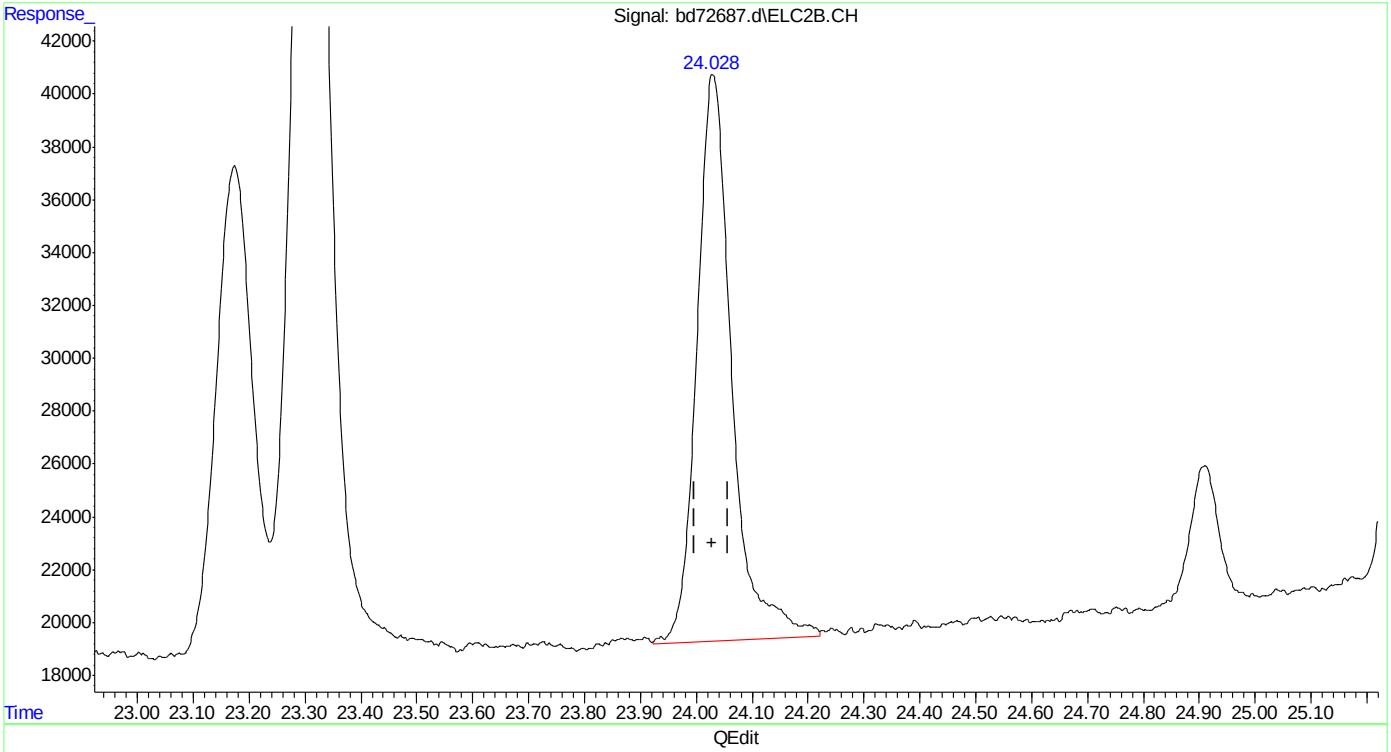
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(30) o-xylene #2
24.030min 2.277 ppb
response 930231

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:57 2016 Page: 1

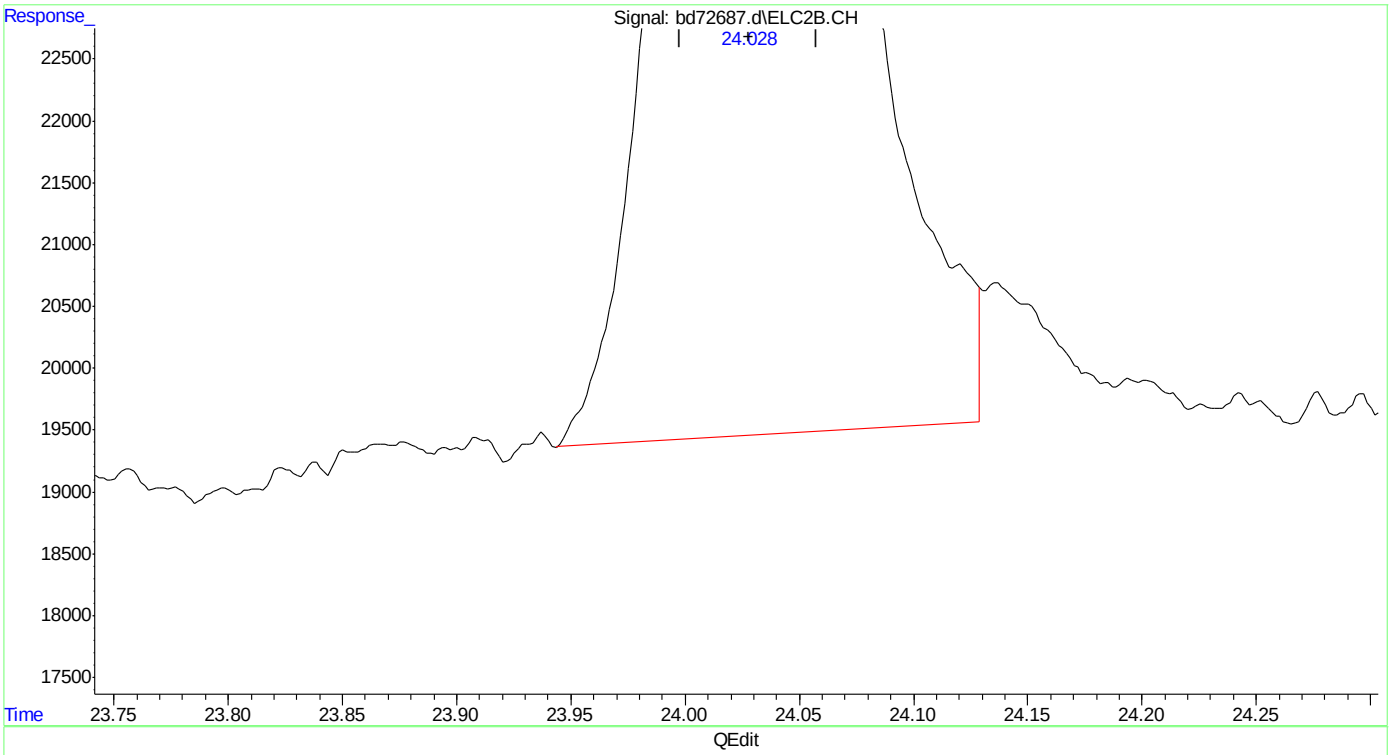
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :
```



(30) o-xylene #2

24.028min 2.137 ppb m

response 873175

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:46:05 2016

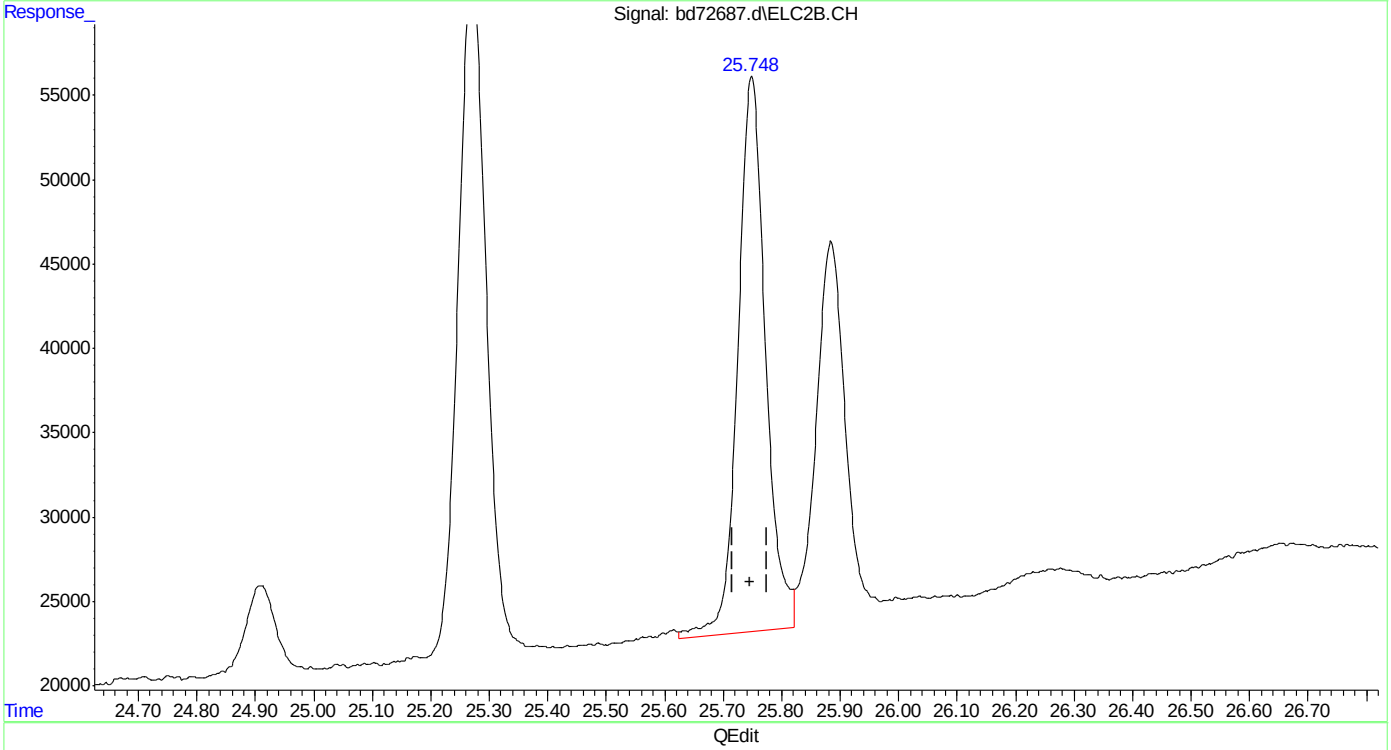
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(32) 1,2,4-trimethylbenzene #2
25.749min 2.350 ppb
response 1079346

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:10 2016

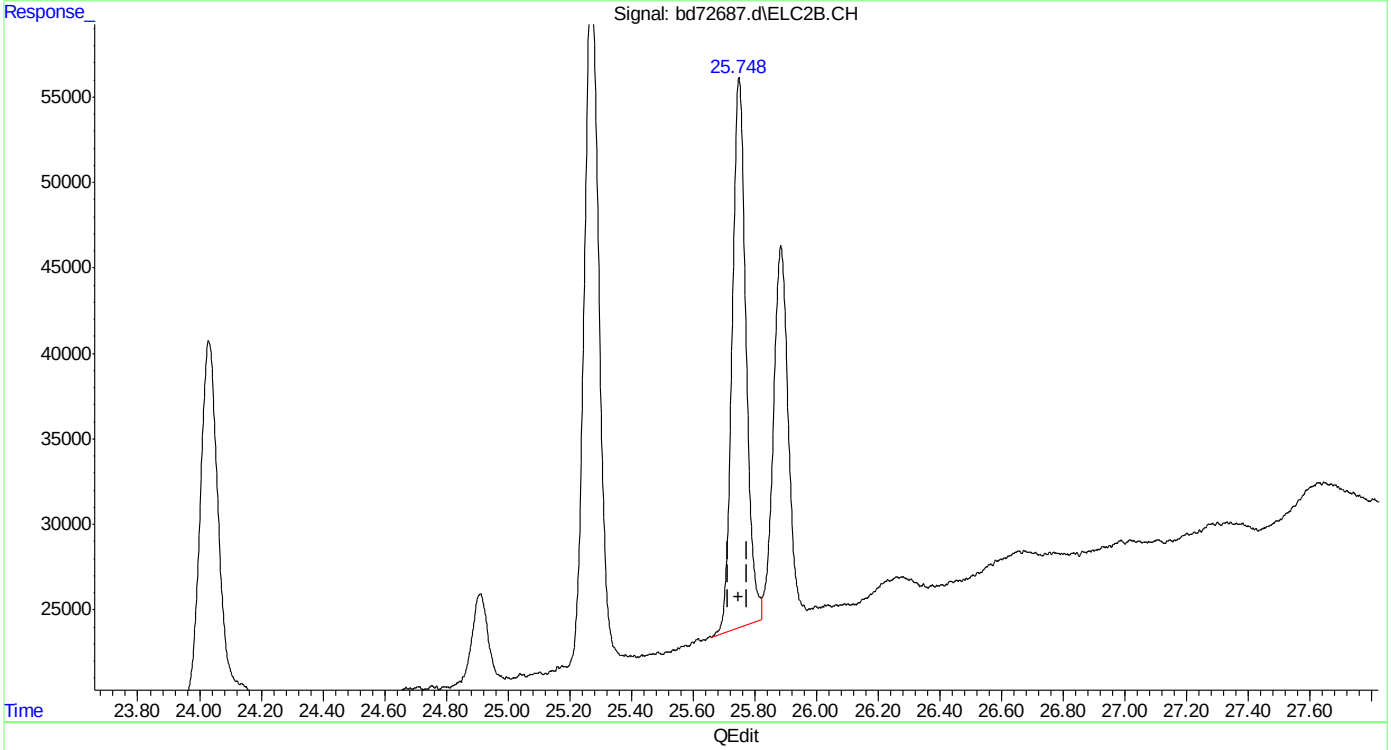
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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 :



(32) 1,2,4-trimethylbenzene #2
25.748min 2.174 ppb m
response 998600

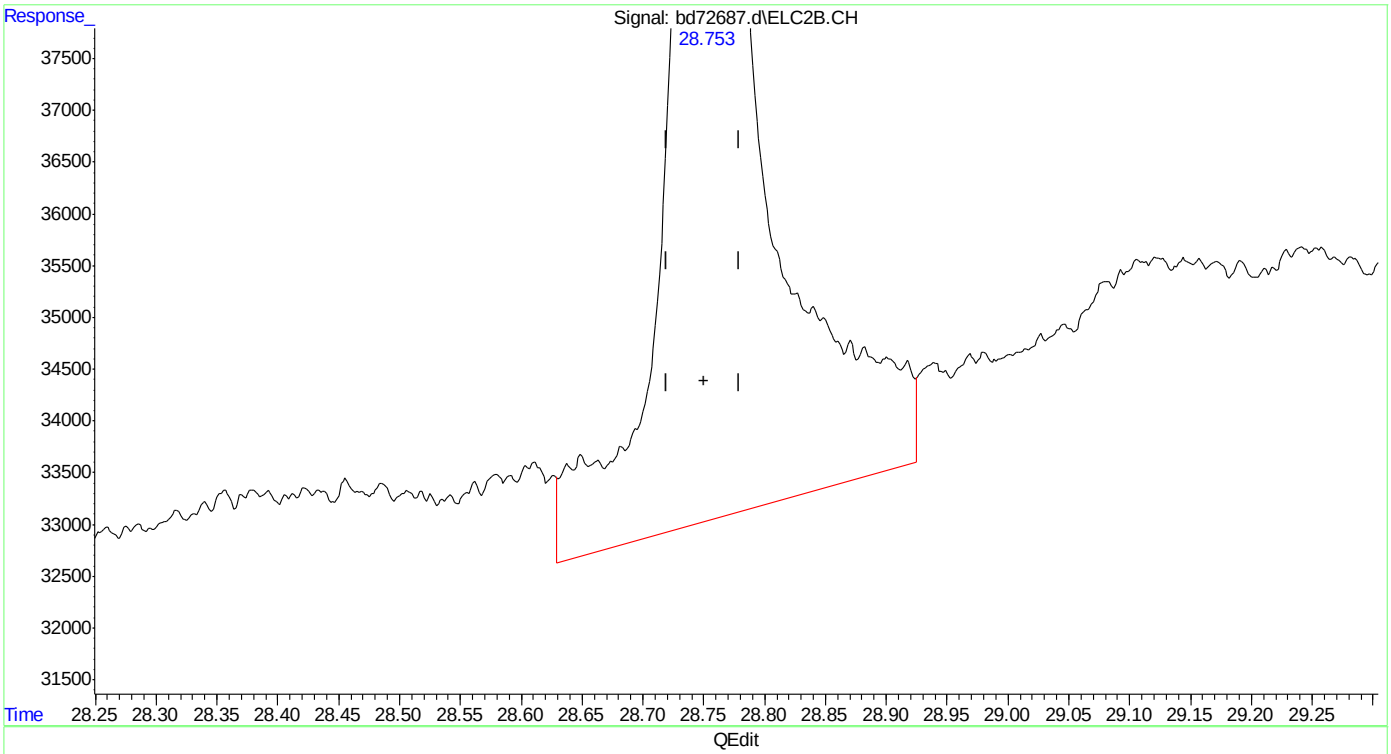
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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
28.753min 1.968 ppb
response 603924

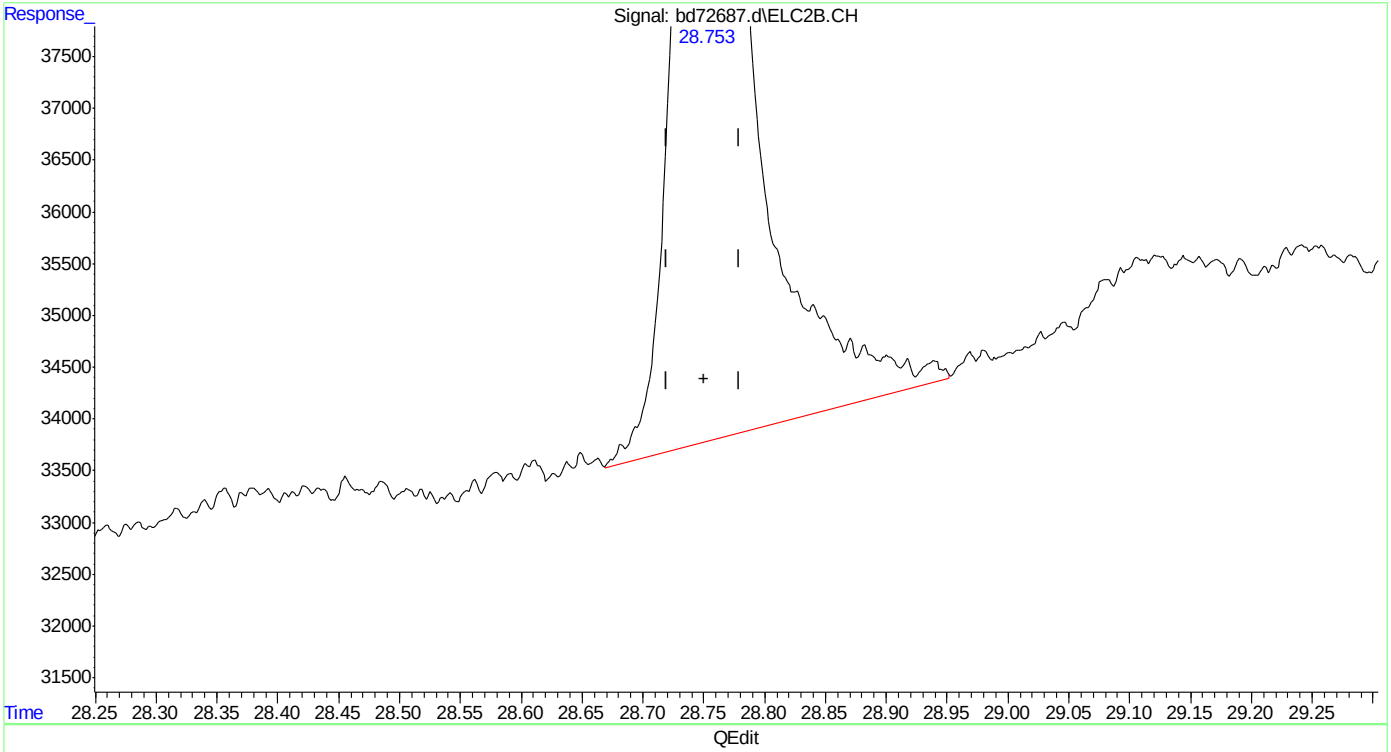
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3752-2
Misc : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:16:19 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
28.753min 1.541 ppb m
response 472807

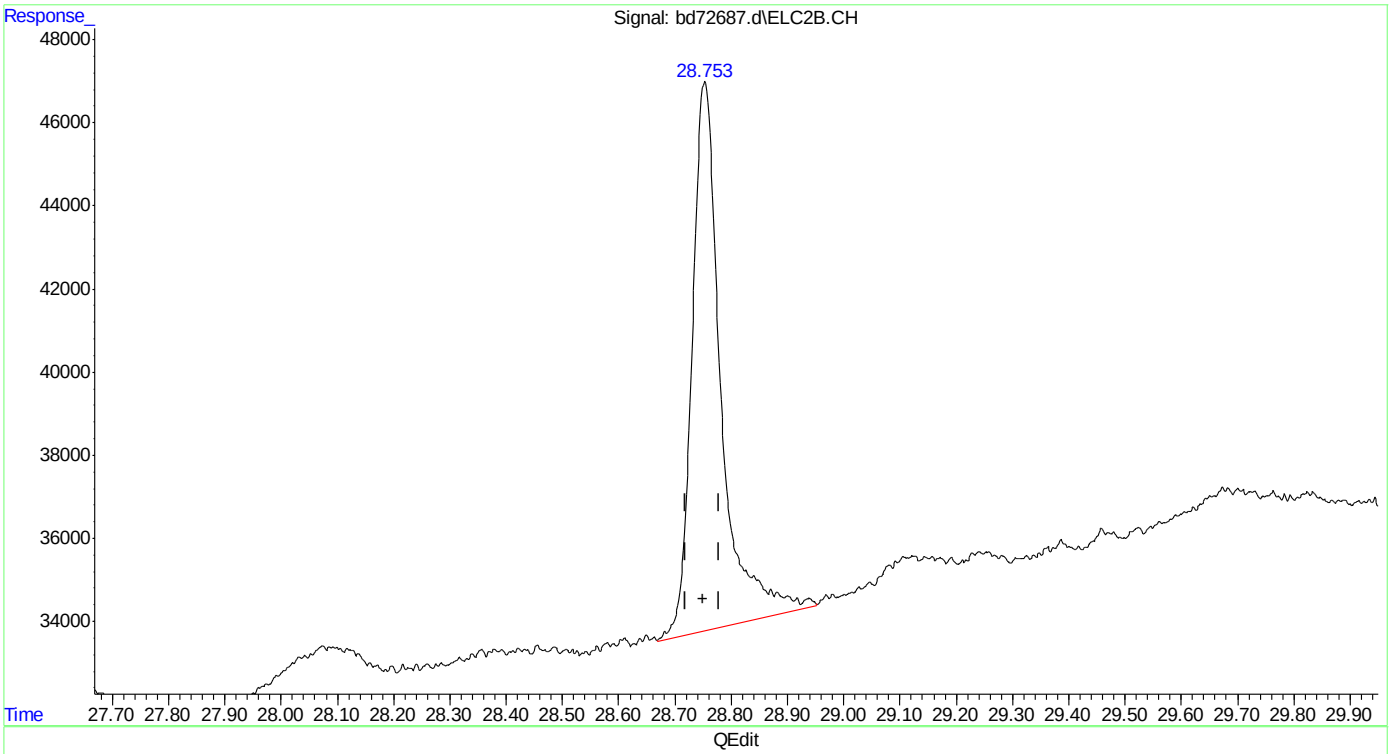
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 11:58:46
Operator  : tonyf
Sample    : ic3752-2
Misc      : gc25978,gbd3572,,,,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: Feb 19 12:41:26 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:16:19 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

28.753min 1.541 ppb m

response 472807

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 12:47:10 2016

SGS ACCUTEST MC45799

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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	16.417	690853	0.952 ppb	m
Spiked Amount 50.000		Recovery =	1.90%	
9) s 2,3,4-trifluorotoluene	21.238	520707	0.941 ppb	m
Spiked Amount 50.000		Recovery =	1.88%	
25) s fluorobenzene #2	16.428	373315	1.052 ppb	m
Spiked Amount 50.000		Recovery =	2.10%	
27) s 2,3,4-trifluorotoluen...	21.241	206659	1.027 ppb	m
Spiked Amount 50.000		Recovery =	2.05%	
Target Compounds				
1) h rt5.5-7	7.470	578714	1.013 ppb	m
2) h rt7/10	9.920	702081	1.064 ppb	m
3) mtbe	10.722f	270383	0.935 ppb	m
4) h rt10/13	15.200	721543	1.001 ppb	m
5) benzene	15.930	747683	0.970 ppb	m
8) toluene	20.219	761168	0.989 ppb	m
11) h rt20/25	22.840	1149887	1.343 ppb	m
13) ethylbenzene	23.175	793136	1.005 ppb	
14) m,p-xylene	23.311	1723067	2.092 ppb	
15) o-xylene	24.031	920010	1.108 ppb	
16) h decane	24.930	1632465	1.704 ppb	m
17) t 1,3,5-trimethylbenzene	25.273	946024	0.995 ppb	m
18) 1,2,4-trimethylbenzene	25.750	938216	1.067 ppb	m
19) h butylcyclohexane	25.908	1408346	1.425 ppb	m
20) naphthalene	28.755	268939	0.670 ppb	m
23) mtbe #2	10.682	146572	0.931 ppb	m
24) benzene #2	15.926	496928	1.064 ppb	m
26) toluene #2	20.226	470661	1.085 ppb	m
28) ethylbenzene #2	23.173	413616	1.042 ppb	
29) m,p-xylene #2	23.310	1007780	2.081 ppb	
30) o-xylene #2	24.033	483692	1.164 ppb	m
31) t 1,3,5-trimethylbenzen...	25.273	712865	1.078 ppb	
32) 1,2,4-trimethylbenzen...	25.749	530966	1.131 ppb	m
33) naphthalene #2	28.755	204485	0.707 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	25.777	530521	1.131 ppb	m

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

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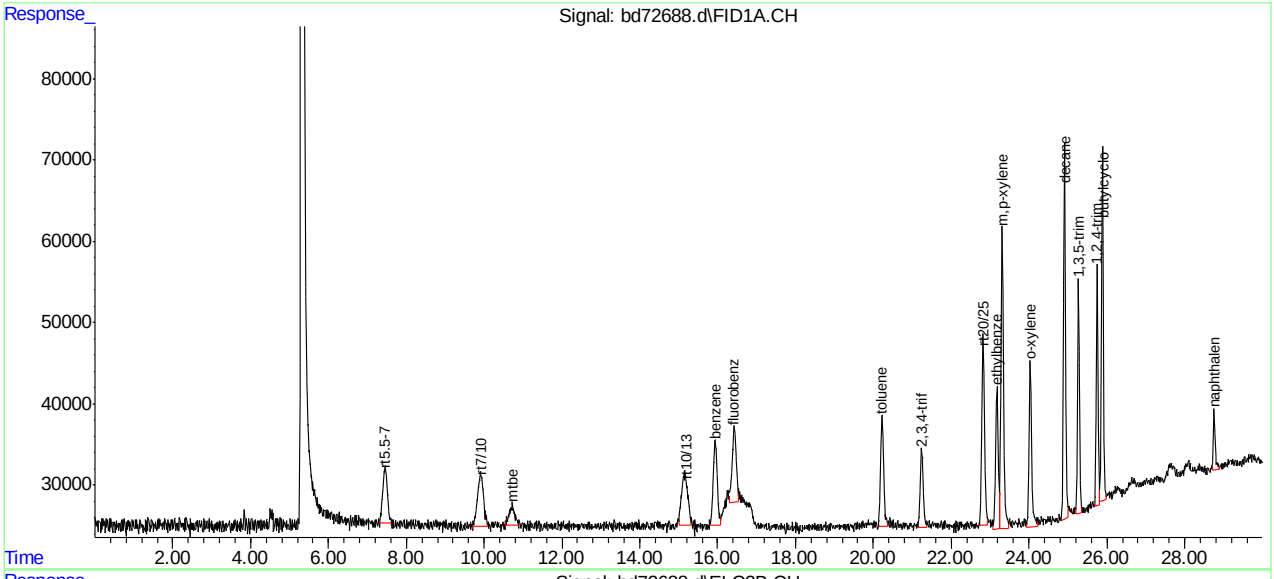
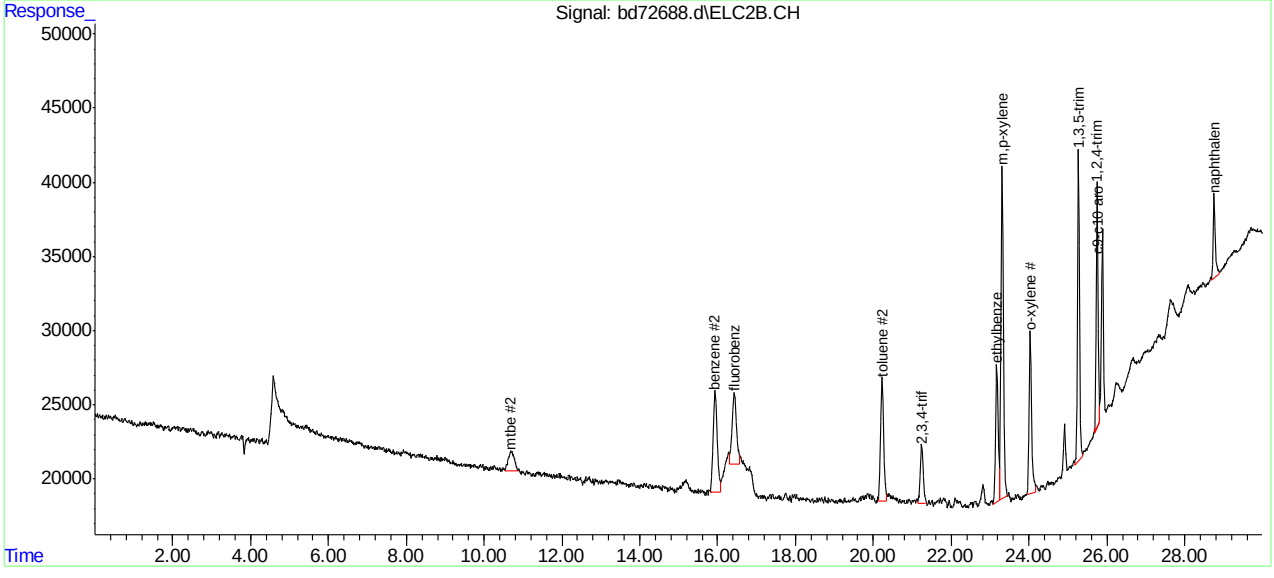
Quantitation Report (QT Reviewed)

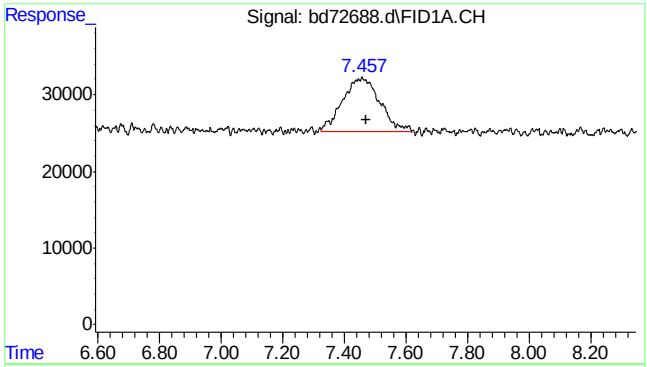
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:13:58 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

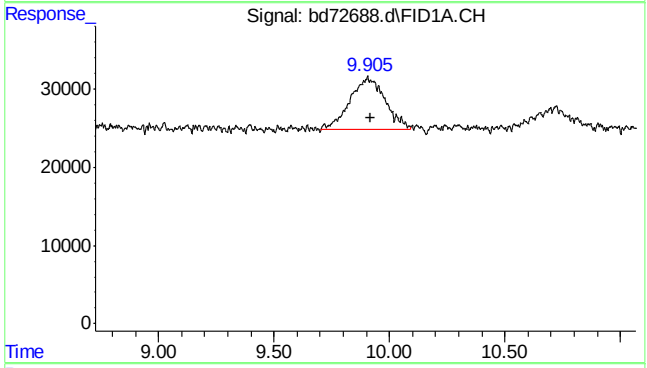






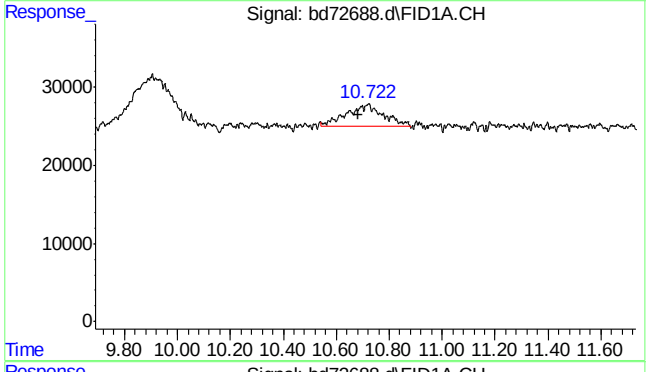
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 578714
Conc: 1.01 ppb m



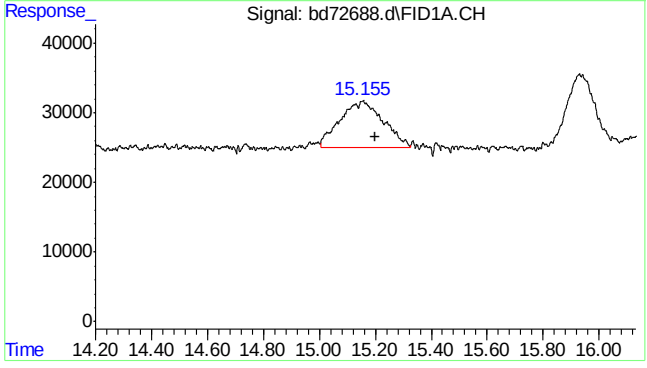
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 702081
Conc: 1.06 ppb m



#3 mtbe

R.T.: 10.722 min
Delta R.T.: 0.039 min
Response: 270383
Conc: 0.94 ppb m



#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 721543
Conc: 1.00 ppb m

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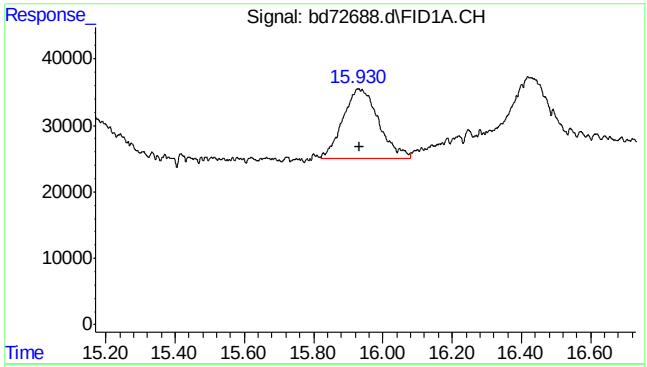
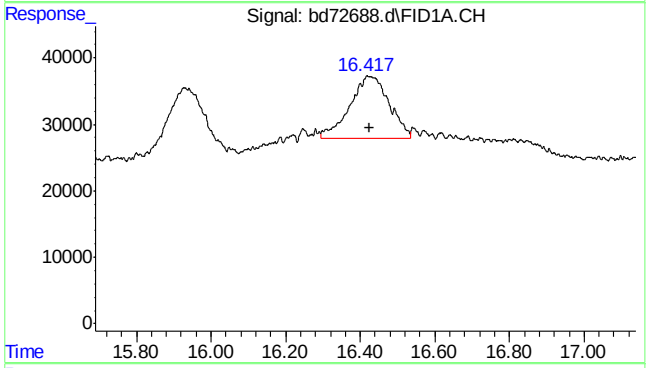


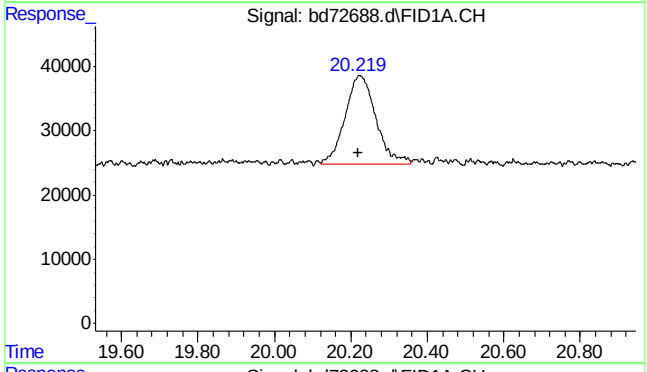
#5 benzene

R.T.: 15.930 min
Delta R.T.: -0.003 min
Response: 747683
Conc: 0.97 ppb m



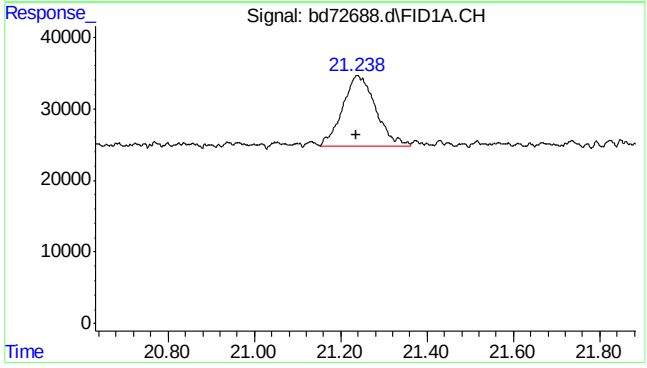
#6 fluorobenzene

R.T.: 16.417 min
Delta R.T.: -0.007 min
Response: 690853
Conc: 0.95 ppb m



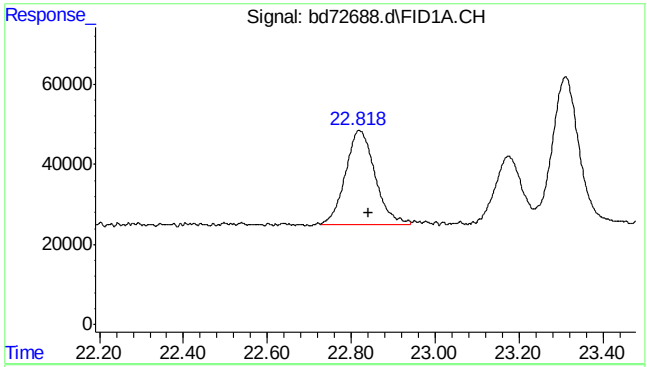
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 761168
Conc: 0.99 ppb m



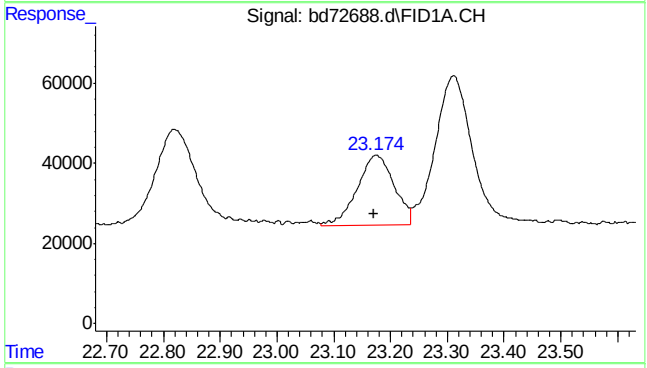
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 520707
Conc: 0.94 ppb m



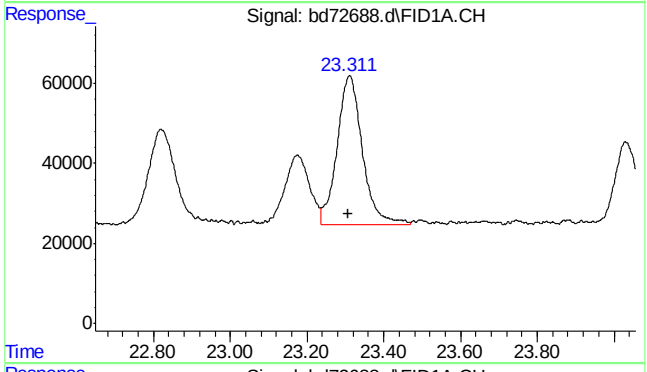
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 1149887
Conc: 1.34 ppb m



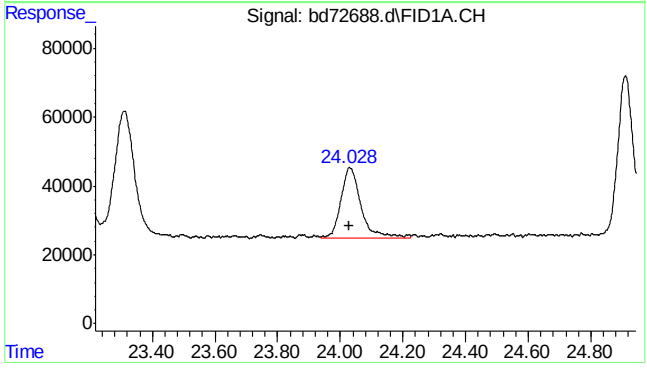
#13 ethylbenzene

R.T.: 23.175 min
Delta R.T.: 0.003 min
Response: 793136
Conc: 1.01 ppb



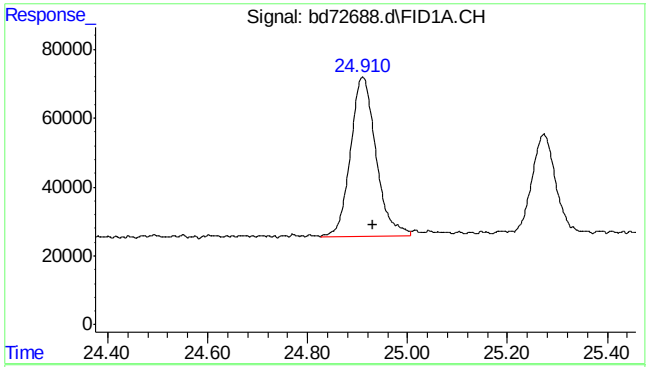
#14 m,p-xylene

R.T.: 23.311 min
Delta R.T.: 0.004 min
Response: 1723067
Conc: 2.09 ppb



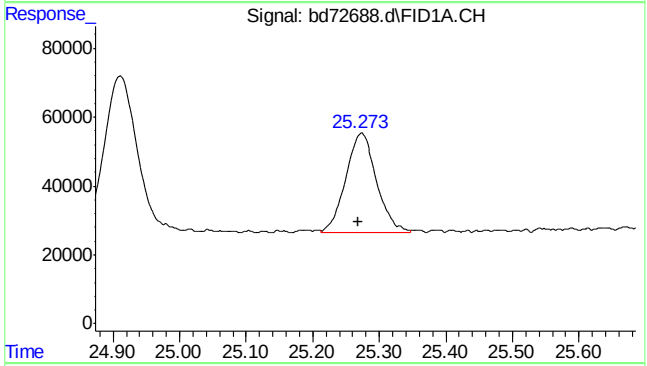
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 920010
Conc: 1.11 ppb



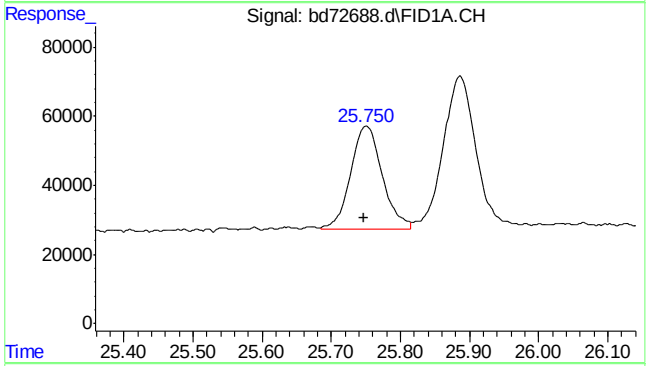
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1632465
Conc: 1.70 ppb m



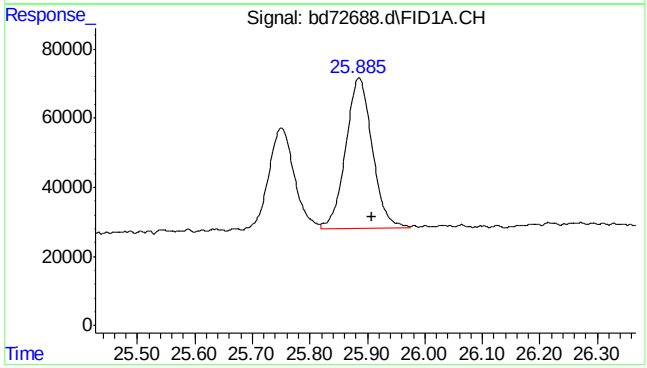
#17 1,3,5-trimethylbenzene

R.T.: 25.273 min
Delta R.T.: 0.004 min
Response: 946024
Conc: 1.00 ppb m



#18 1,2,4-trimethylbenzene

R.T.: 25.750 min
Delta R.T.: 0.003 min
Response: 938216
Conc: 1.07 ppb m



#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1408346
Conc: 1.42 ppb m

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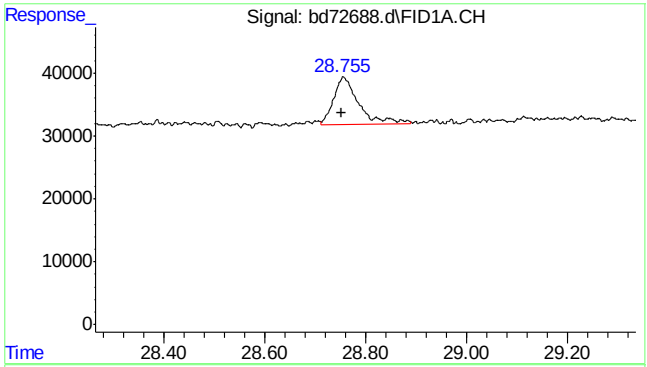
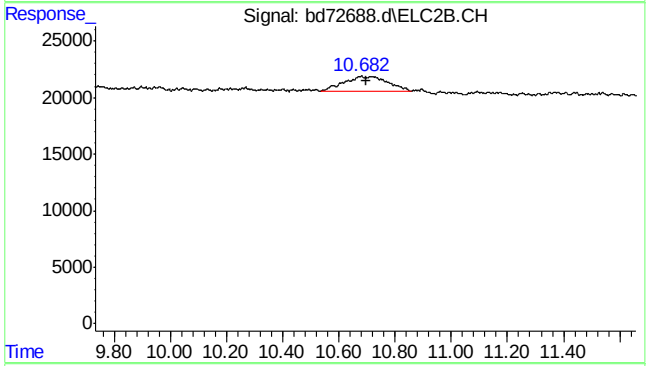


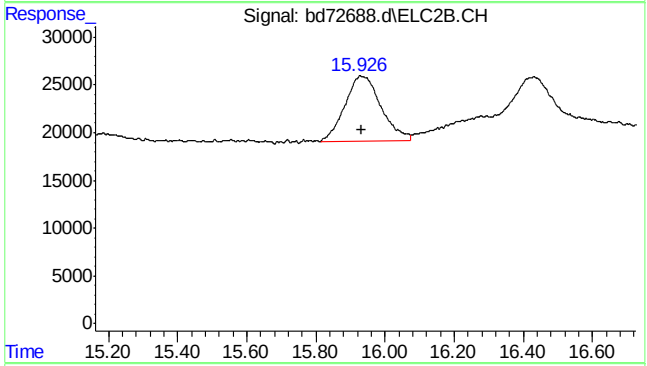
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 268939
Conc: 0.67 ppb m



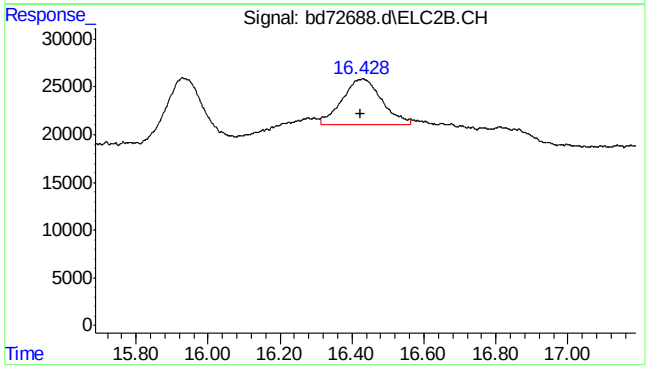
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 146572
Conc: 0.93 ppb m



#24 benzene #2

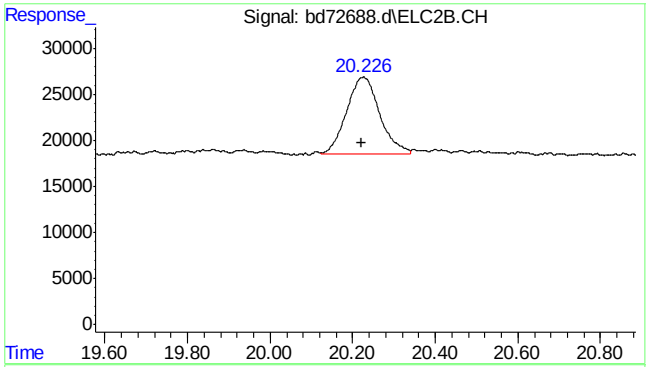
R.T.: 15.926 min
Delta R.T.: -0.006 min
Response: 496928
Conc: 1.06 ppb m



#25 fluorobenzene #2

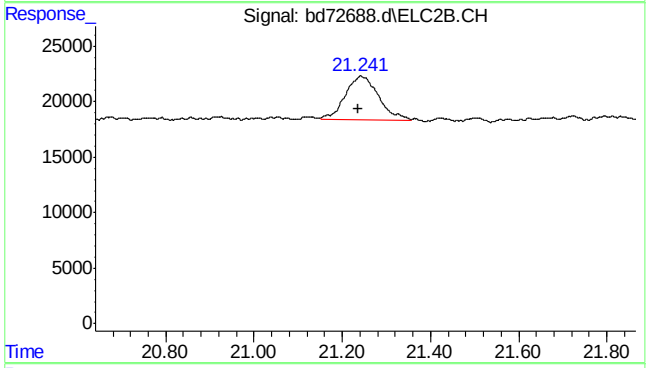
R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 373315
Conc: 1.05 ppb m

SGS ACCUTEST MC45799



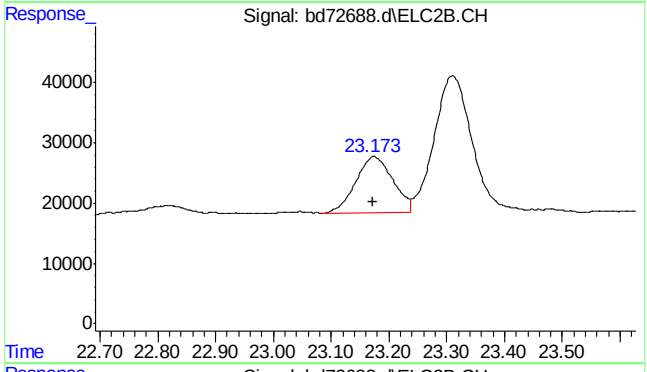
#26 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 470661
Conc: 1.08 ppb m



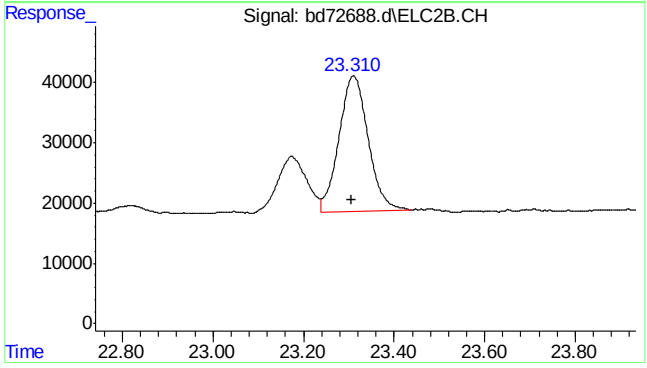
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 206659
Conc: 1.03 ppb m



#28 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 413616
Conc: 1.04 ppb



#29 m,p-xylene #2

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 1007780
Conc: 2.08 ppb

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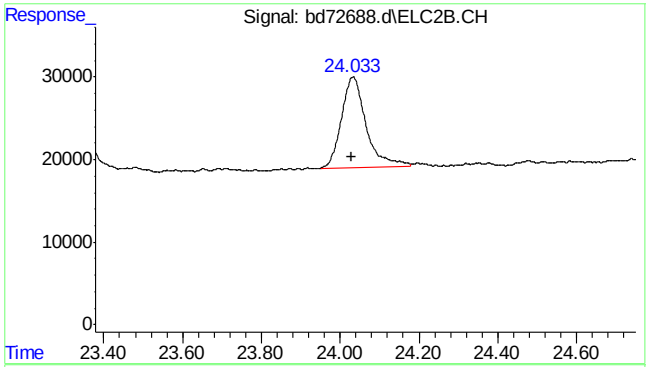
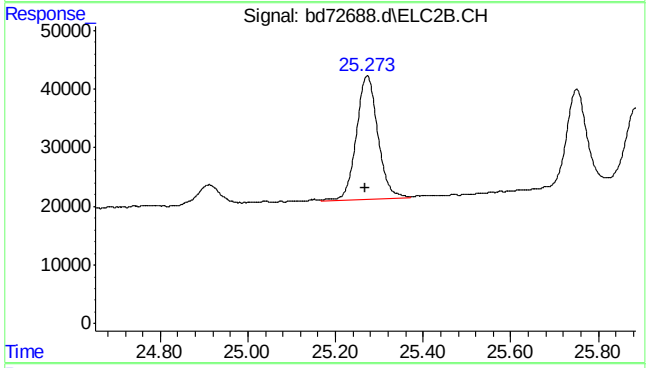


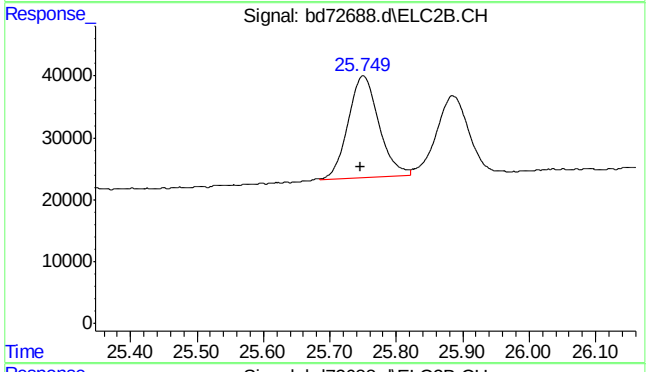
#30 o-xylene #2

R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 483692
Conc: 1.16 ppb m



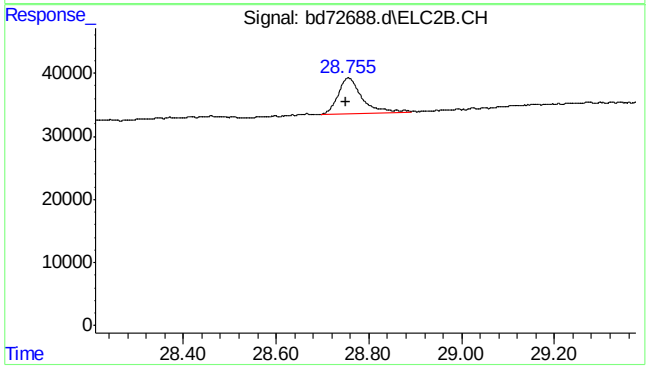
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 712865
Conc: 1.08 ppb



#32 1,2,4-trimethylbenzene #2

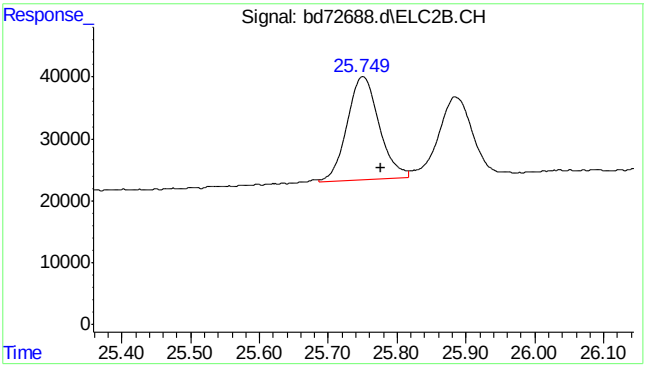
R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 530966
Conc: 1.13 ppb m



#33 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 204485
Conc: 0.71 ppb m

SGS ACCUTEST MC45799




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

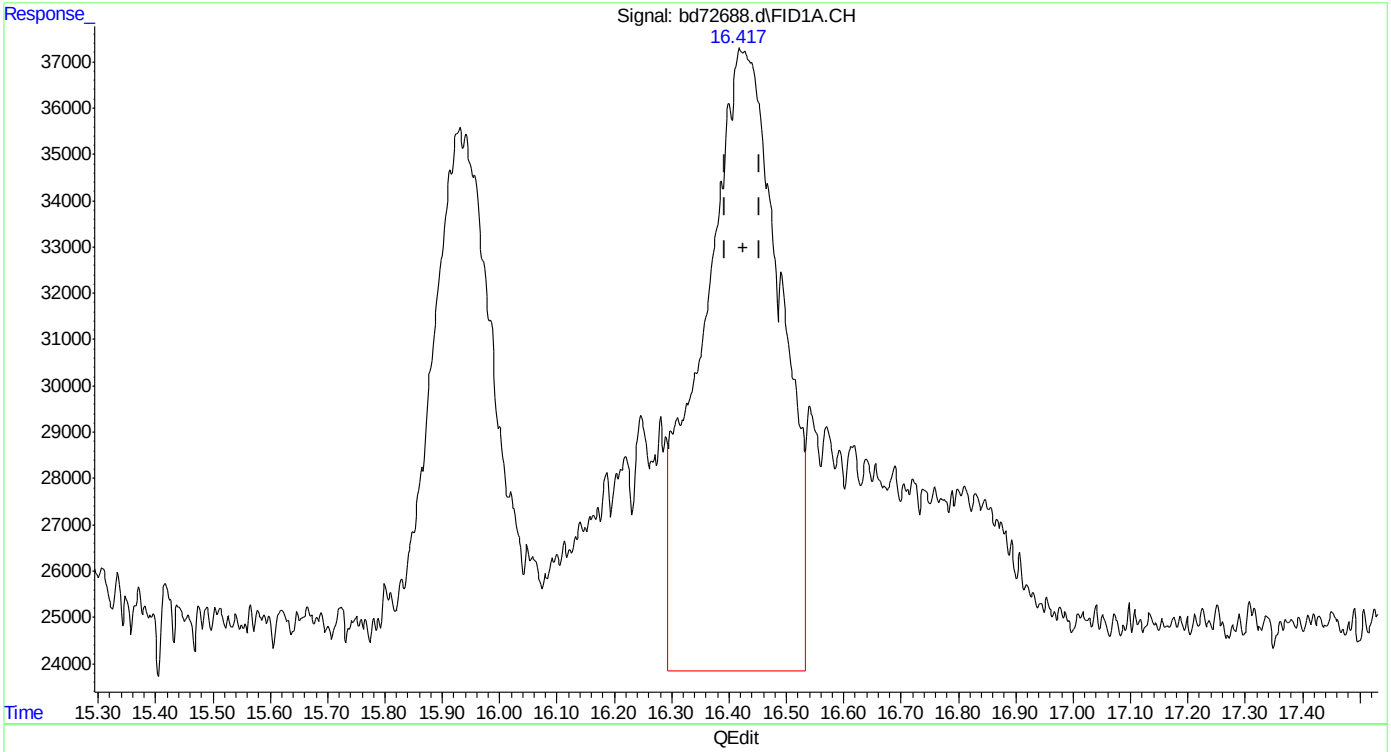
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:    530521
      Conc:   1.13 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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)
16.420min 1.751 ppb
response 1271087

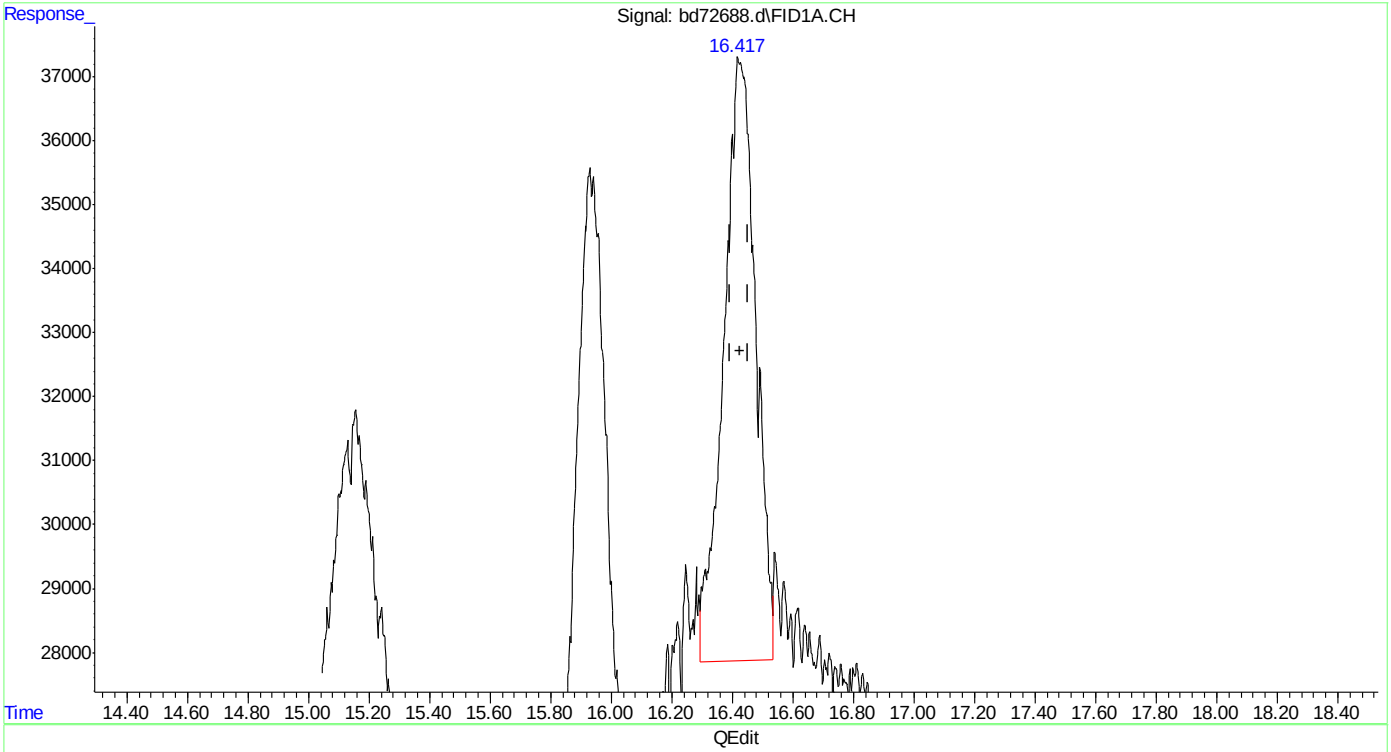
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:09:18 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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)
16.417min 0.952 ppb m
response 690853

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:09:43 2016

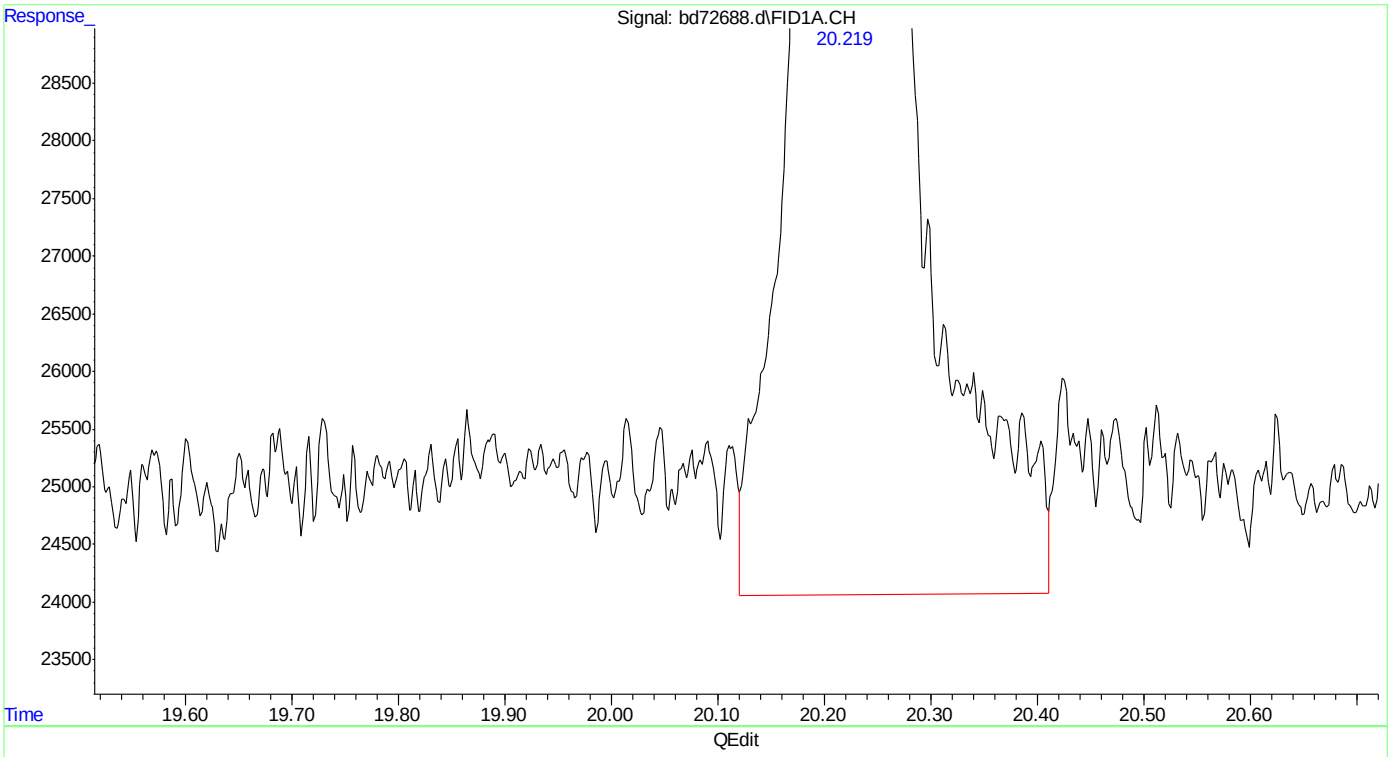
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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

20.223min 1.198 ppb

response 921774

(+) = Expected Retention Time

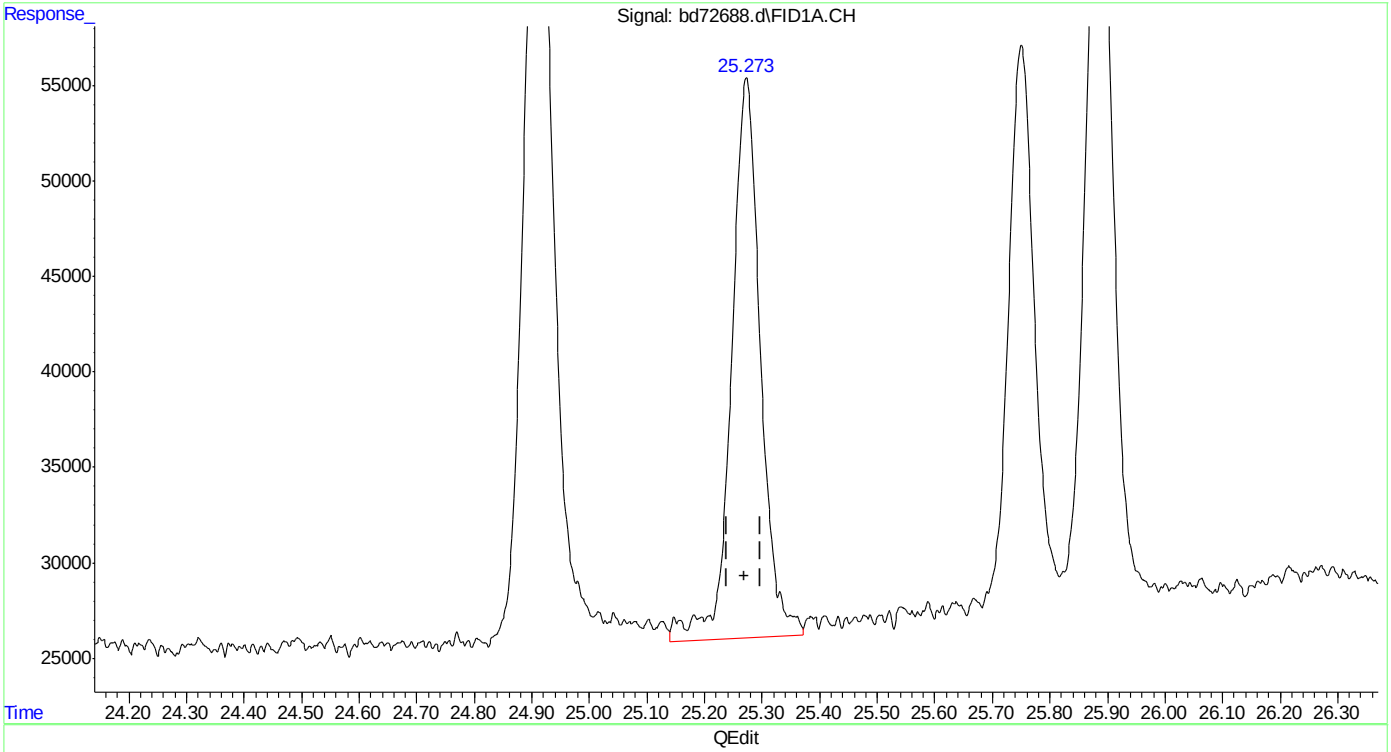
bd160219master.M Fri Feb 19 13:09:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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) 1,3,5-trimethylbenzene (t)
25.273min 1.083 ppb
response 1029688

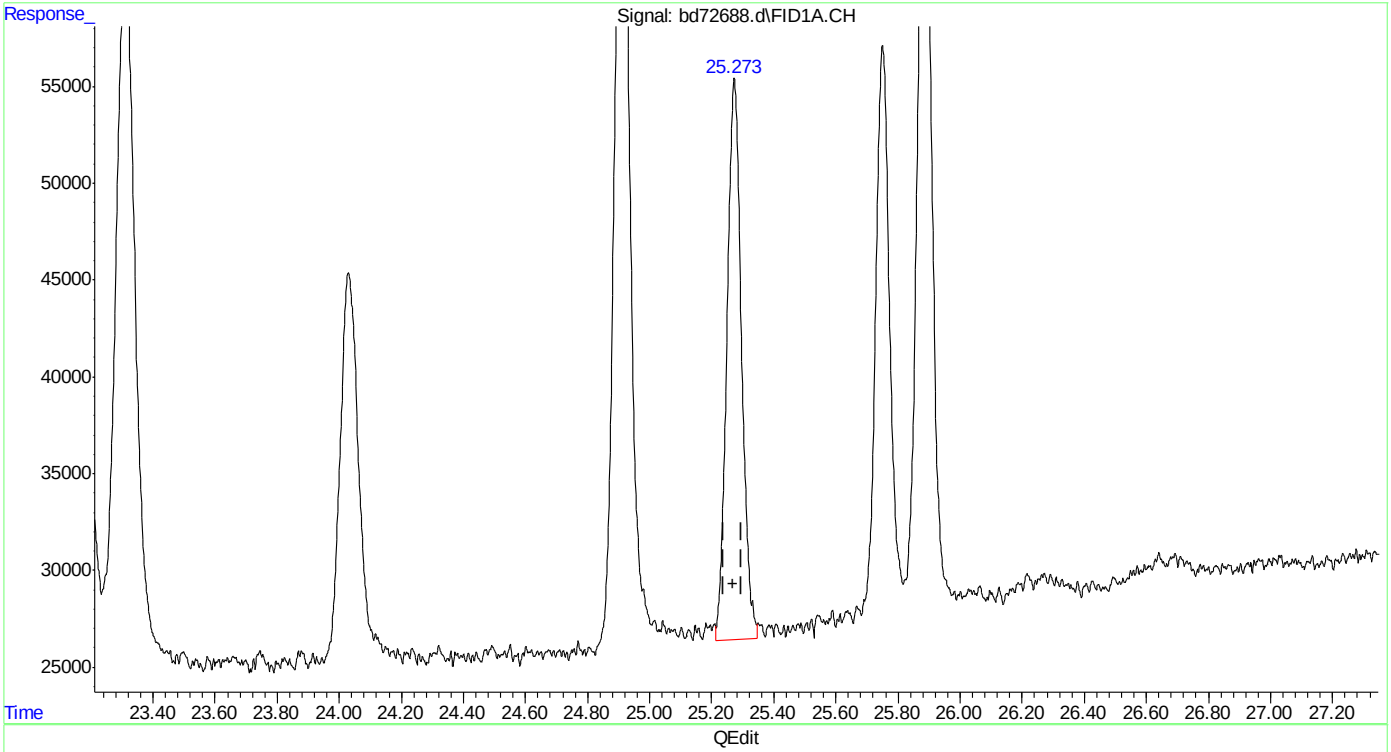
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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) 1,3,5-trimethylbenzene (t)
25.273min 0.995 ppb m
response 946024

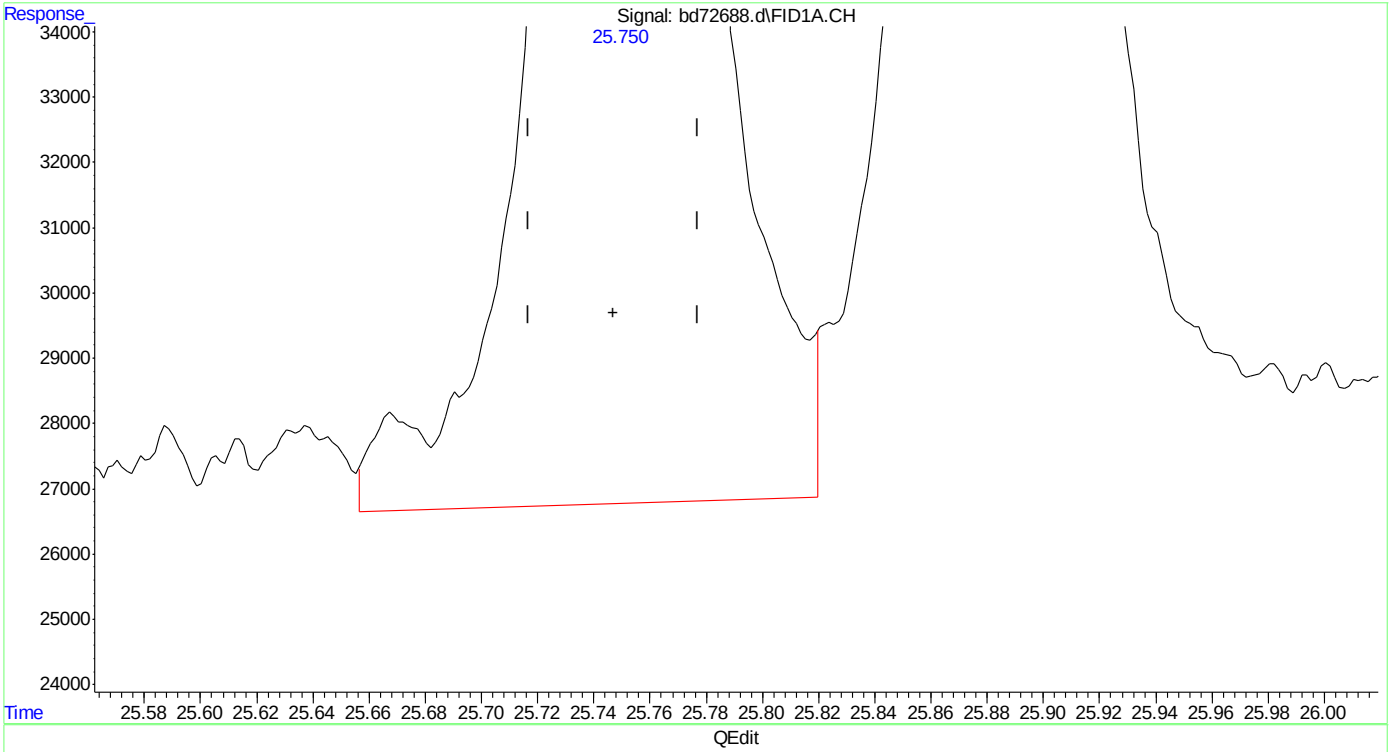
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
25.751min 1.156 ppb
response 1016771

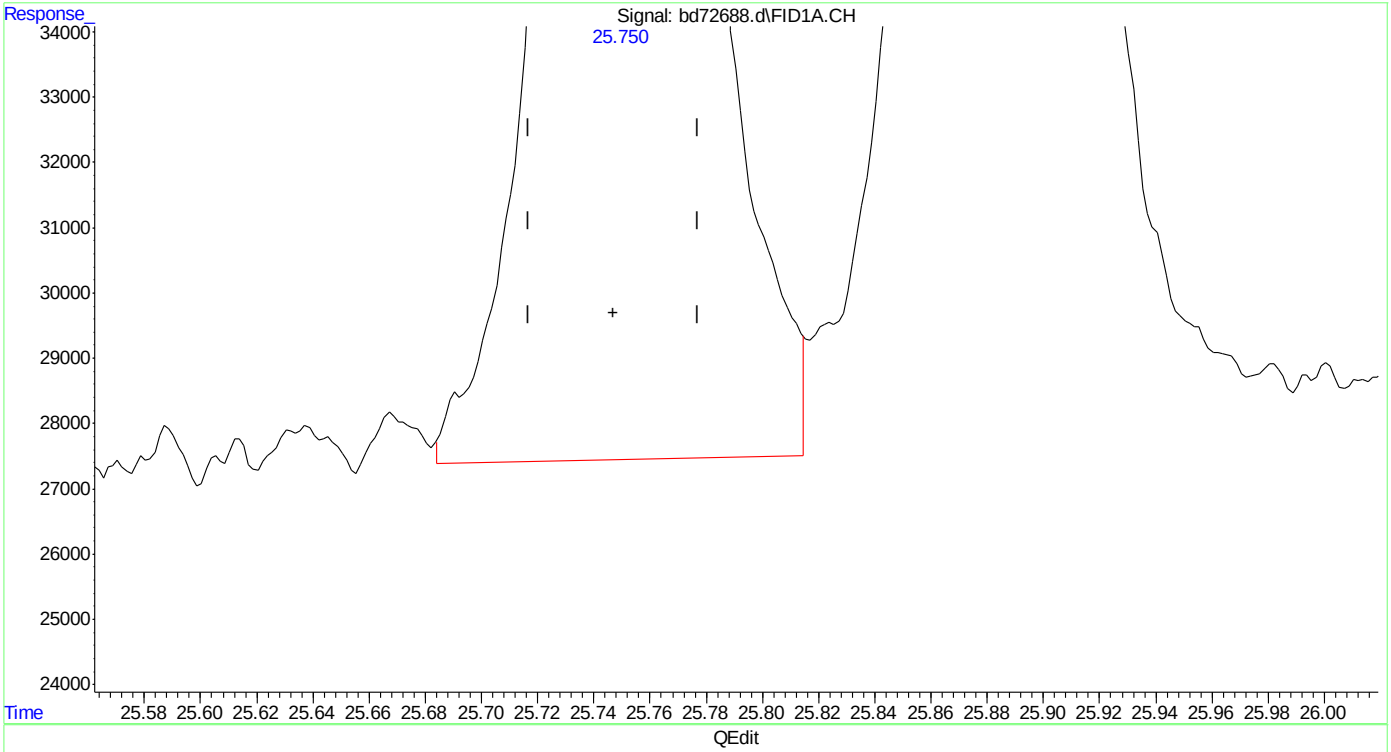
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
25.750min 1.067 ppb m
response 938216

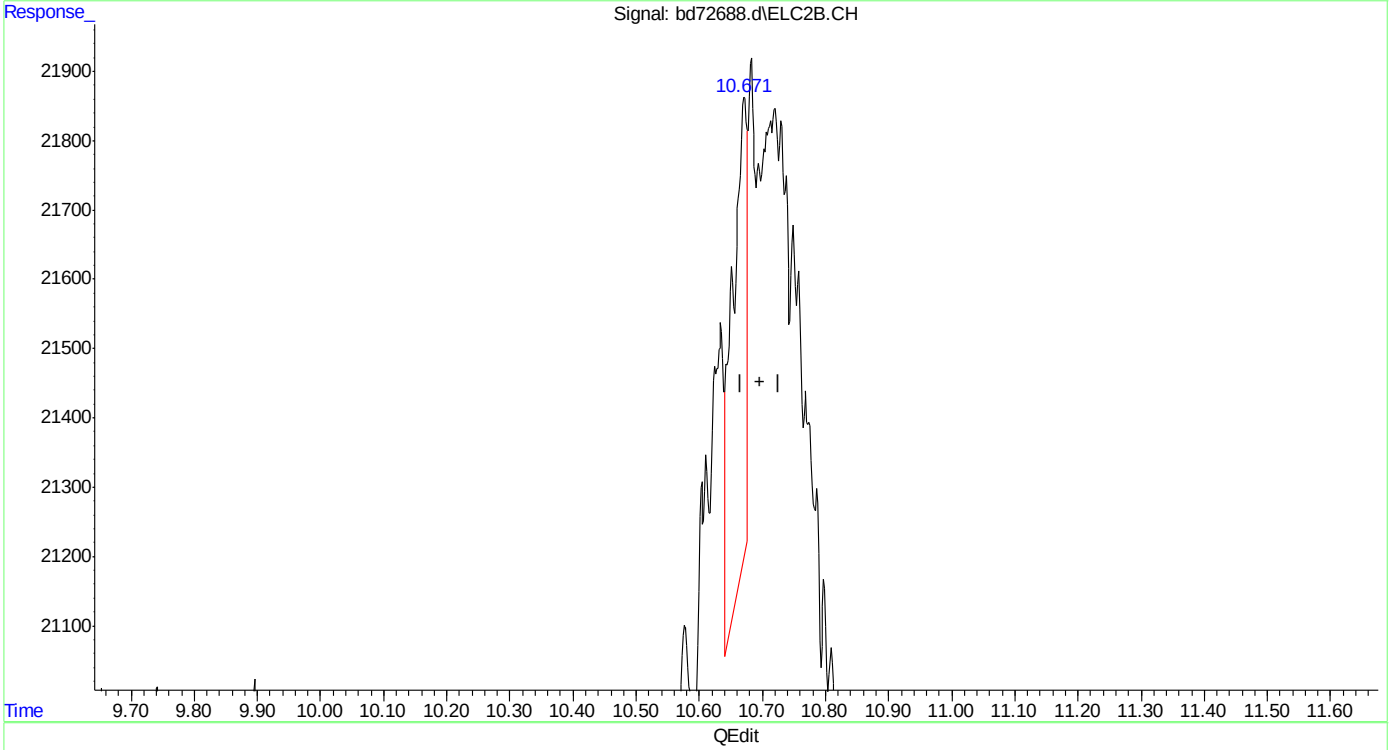
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:59 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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

10.672min 0.071 ppb

response 11136

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:11:21 2016

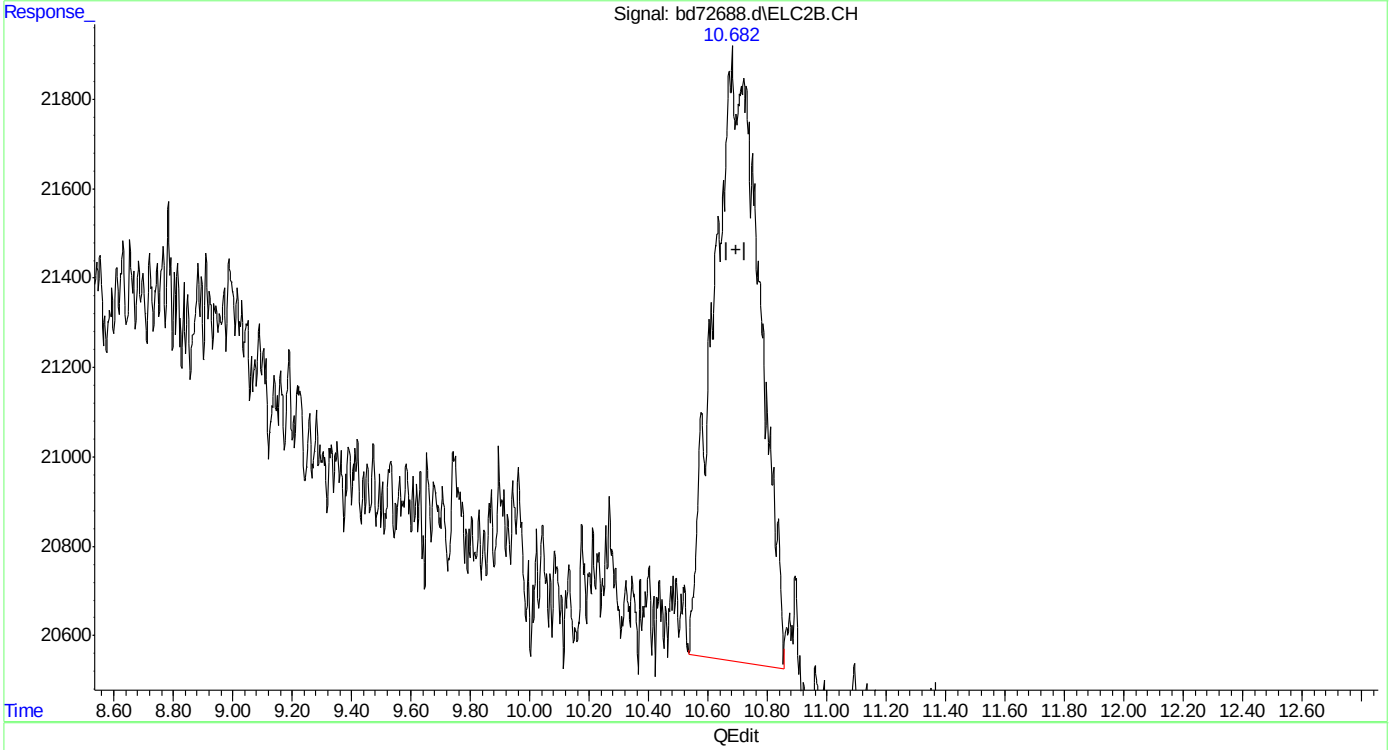
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
10.682min 0.931 ppb m
response 146572

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:11:34 2016

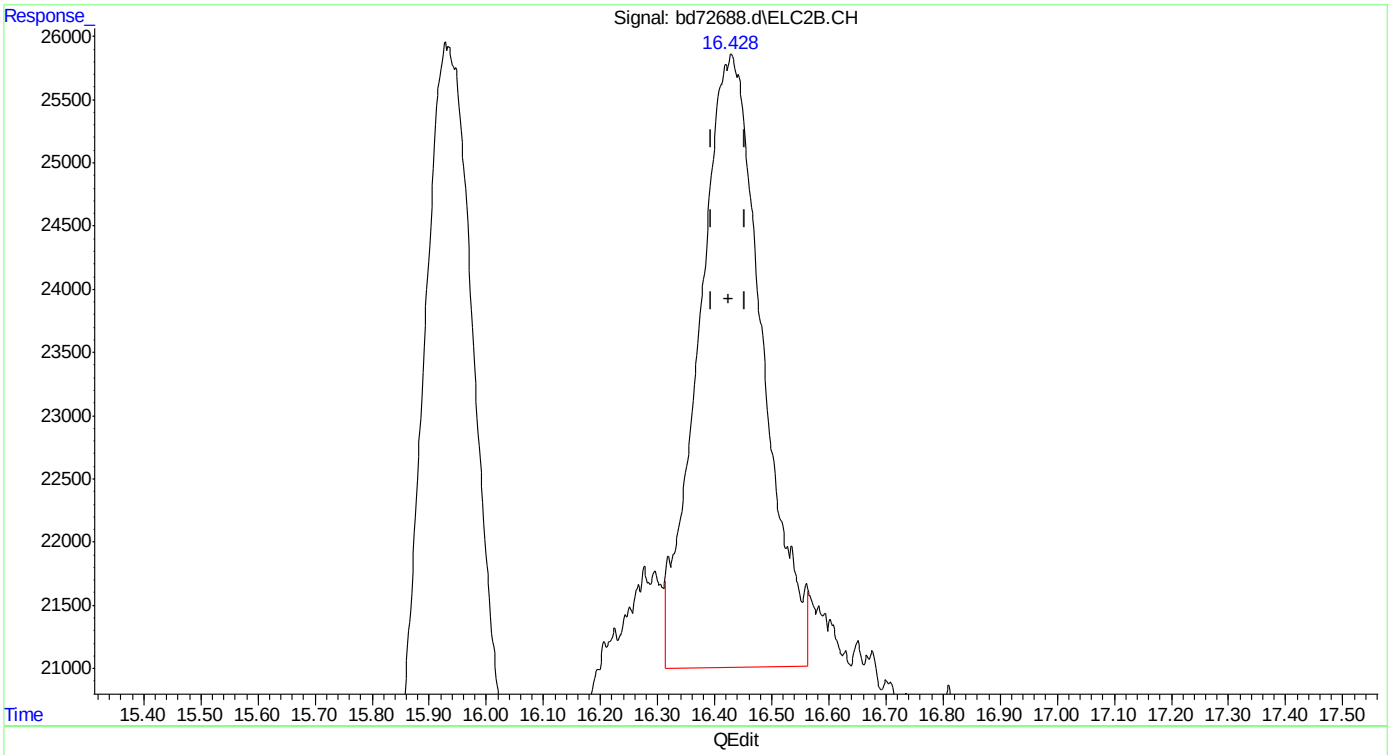
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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)
16.428min 1.052 ppb m
response 373315

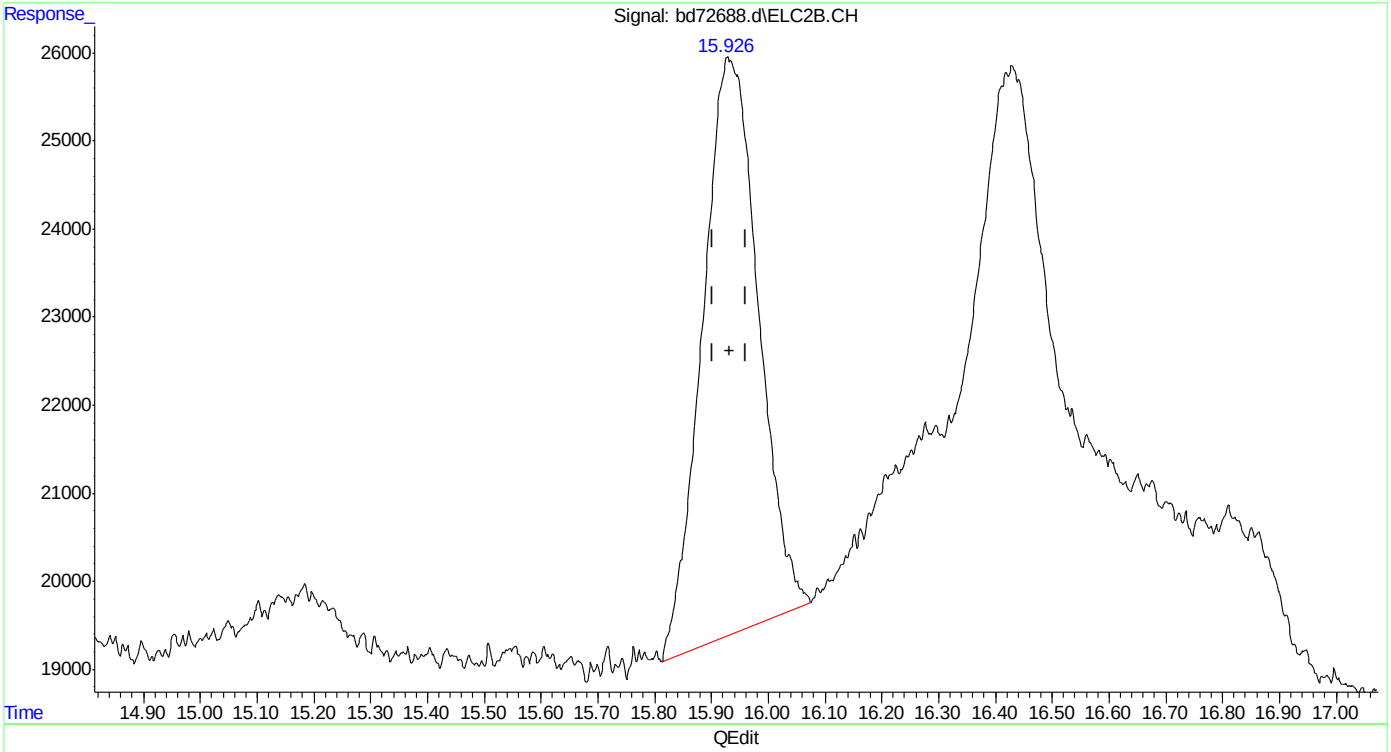
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:03 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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

15.928min 0.962 ppb

response 449314

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:07 2016

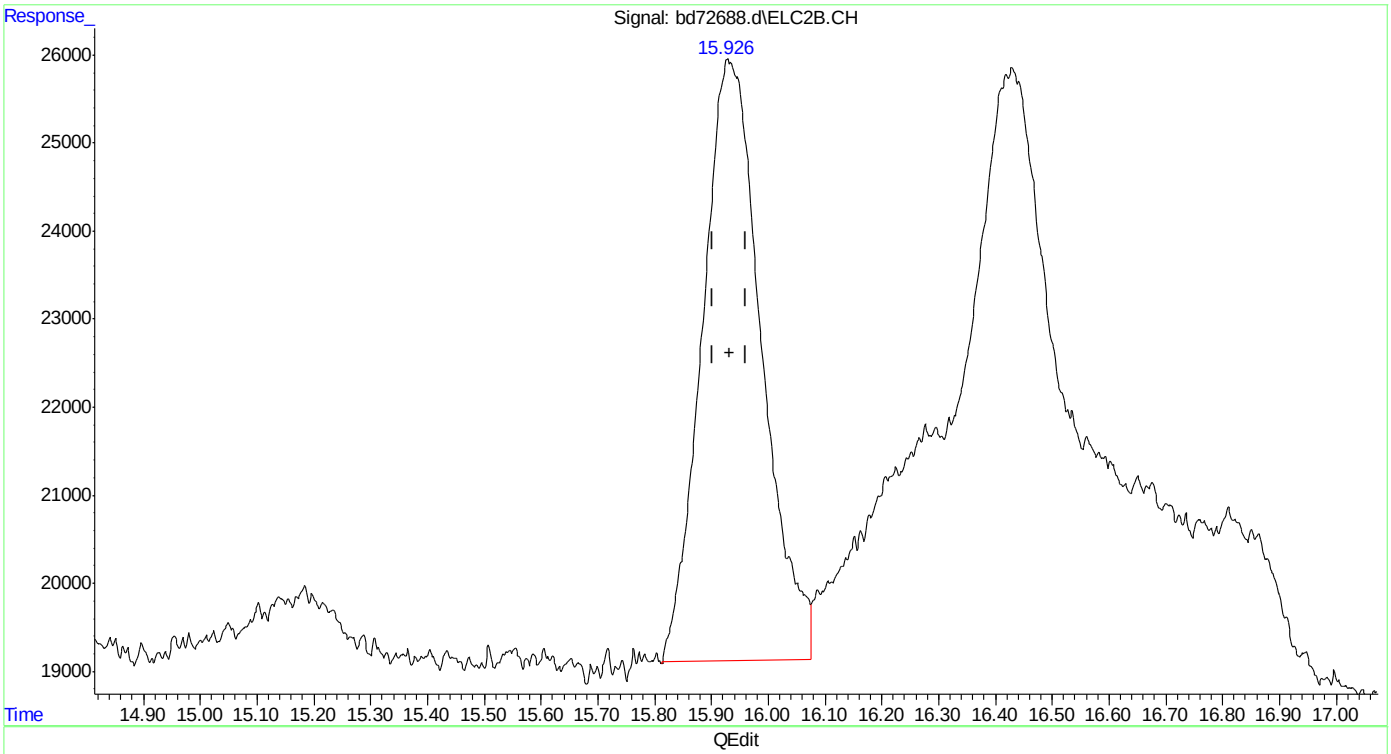
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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

15.926min 1.064 ppb m

response 496928

(+) = Expected Retention Time

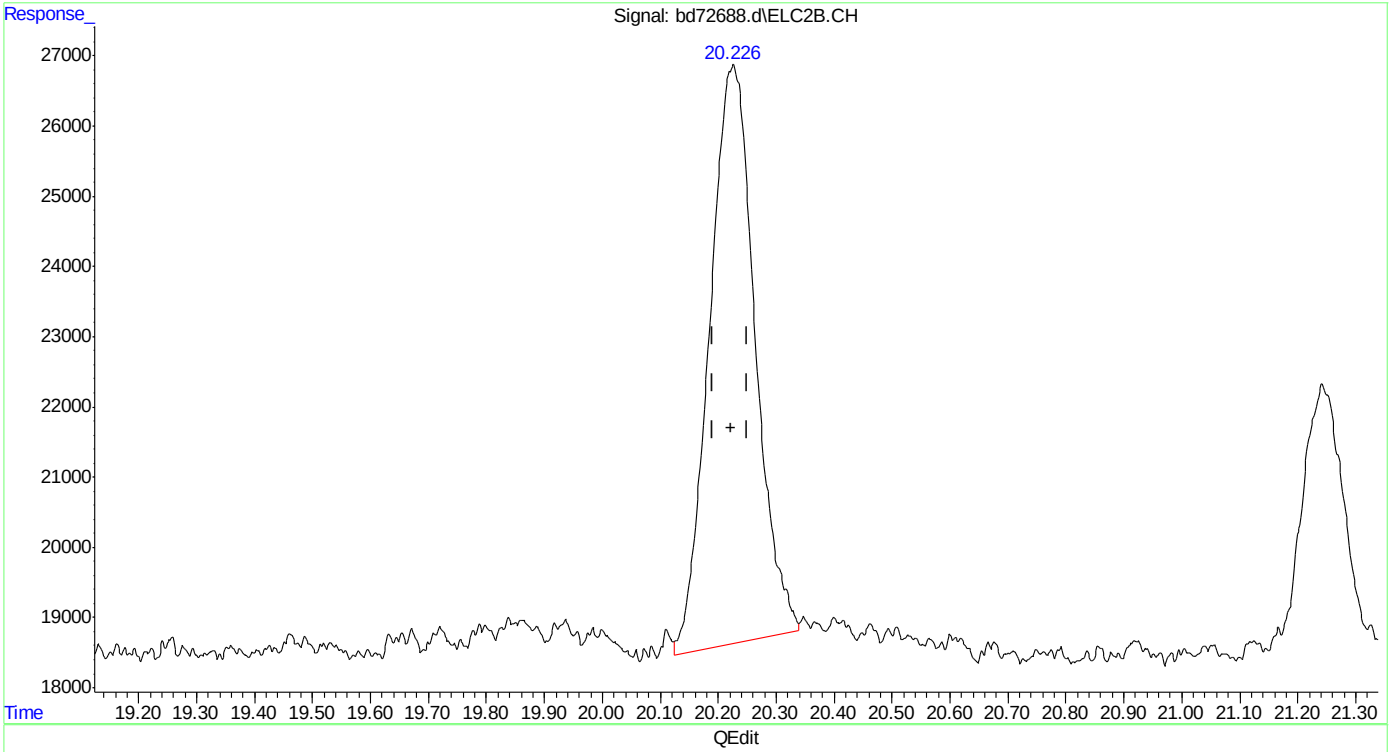
bd160219master.M Fri Feb 19 13:12:12 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 12:36:17
Operator  : tonyf
Sample    : ic3752-1
Misc      : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title  : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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

20.227min 1.036 ppb

response 449679

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 13:12:16 2016

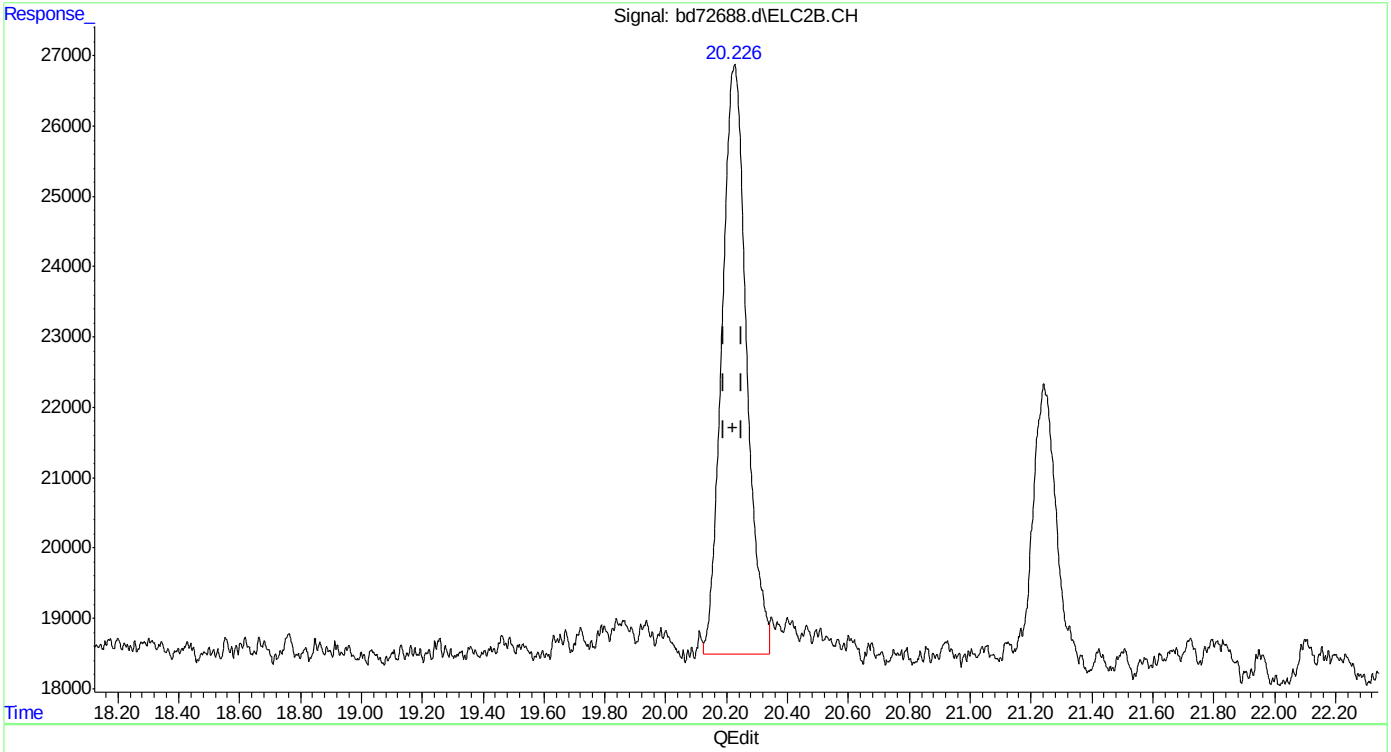
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
20.226min 1.085 ppb m
response 470661

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:23 2016

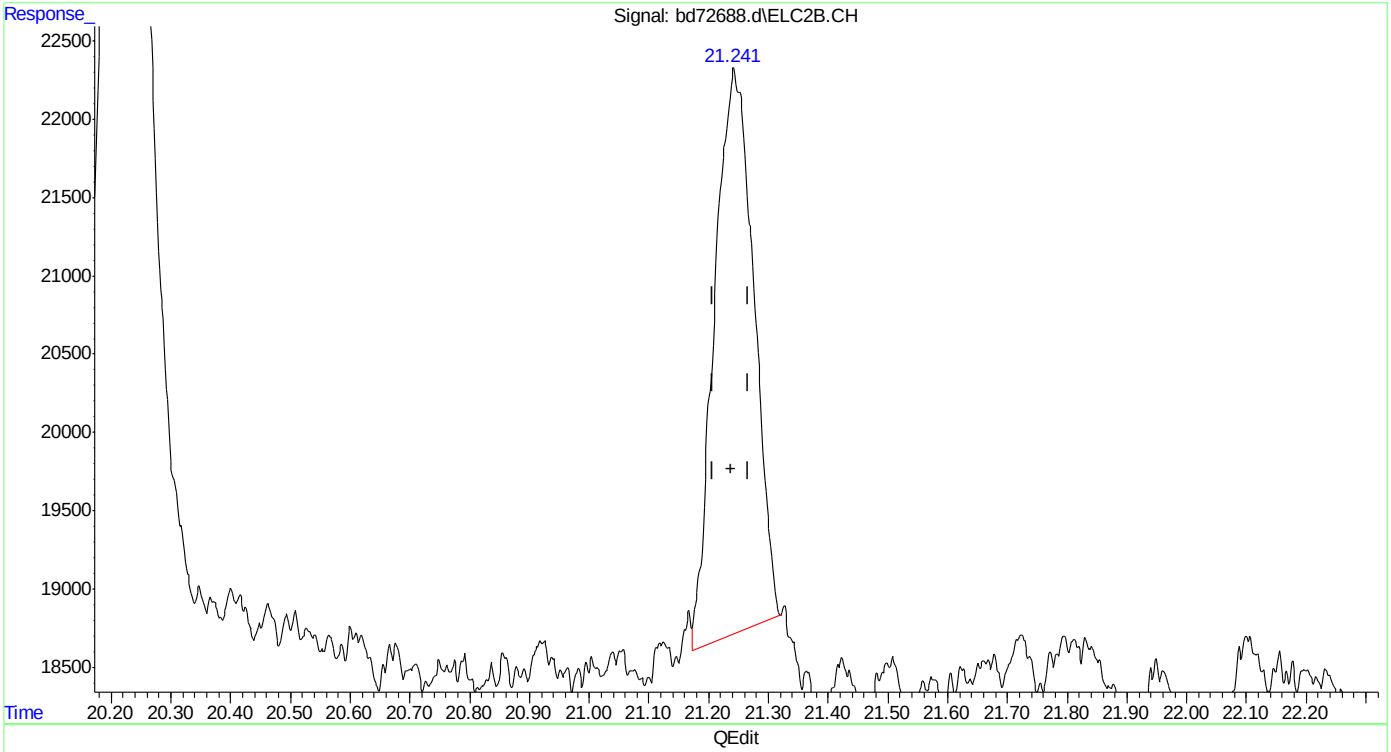
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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)
21.242min 0.818 ppb
response 164602

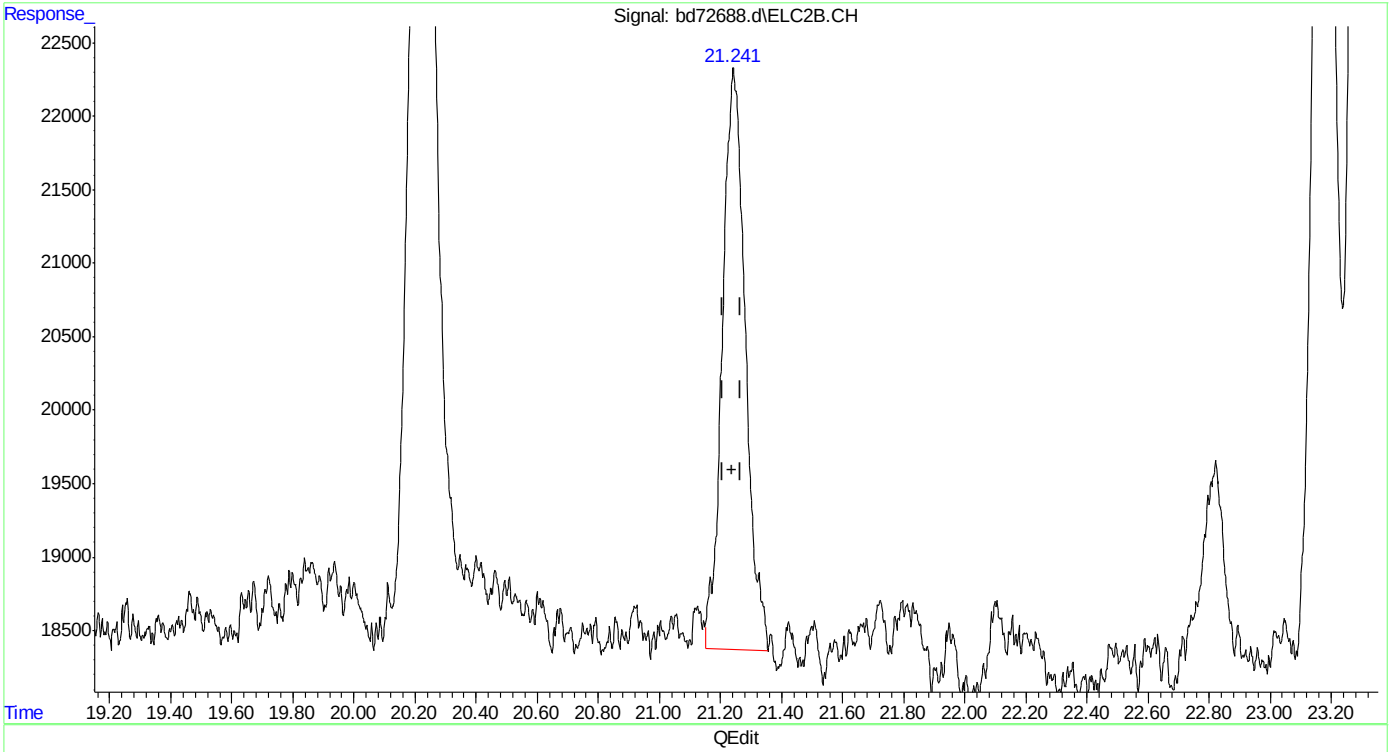
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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)
21.241min 1.027 ppb m
response 206659

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
24.033min 1.195 ppb
response 496813

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:48 2016

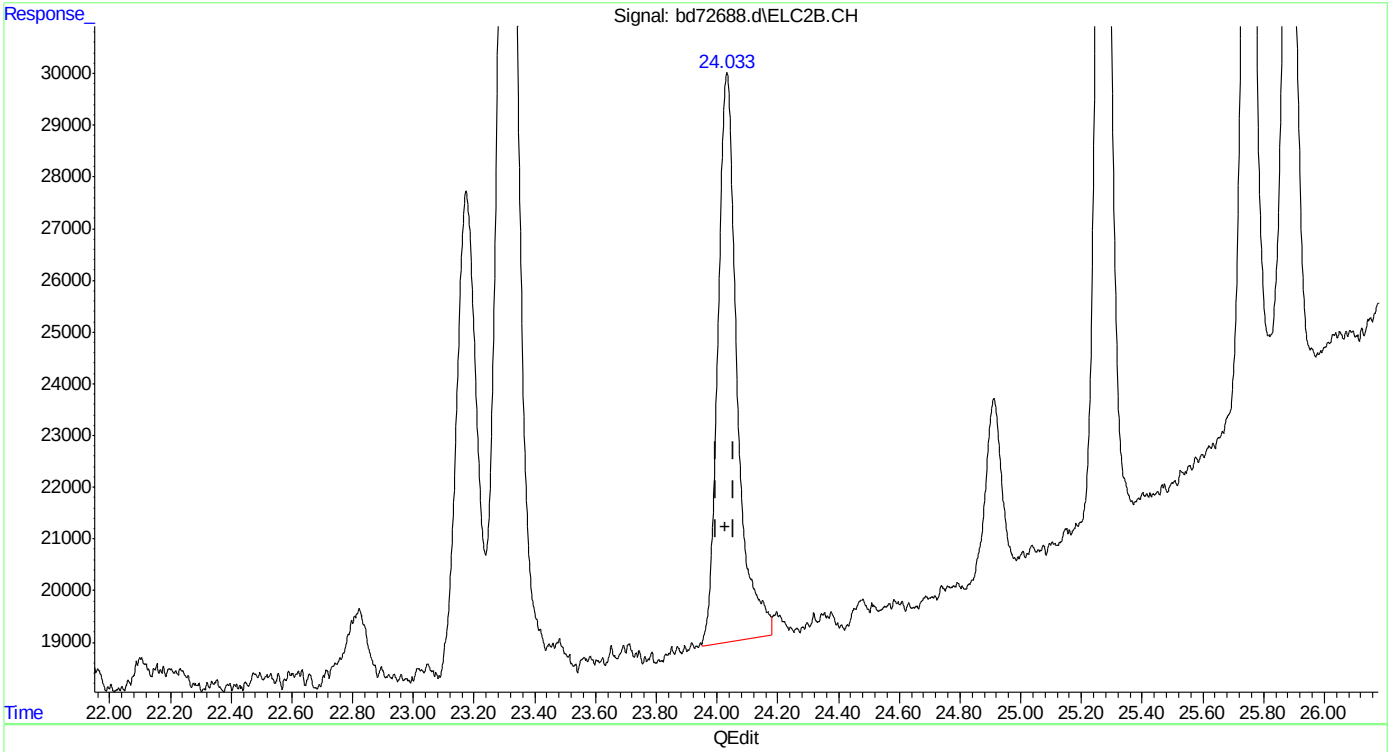
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
24.033min 1.164 ppb m
response 483692

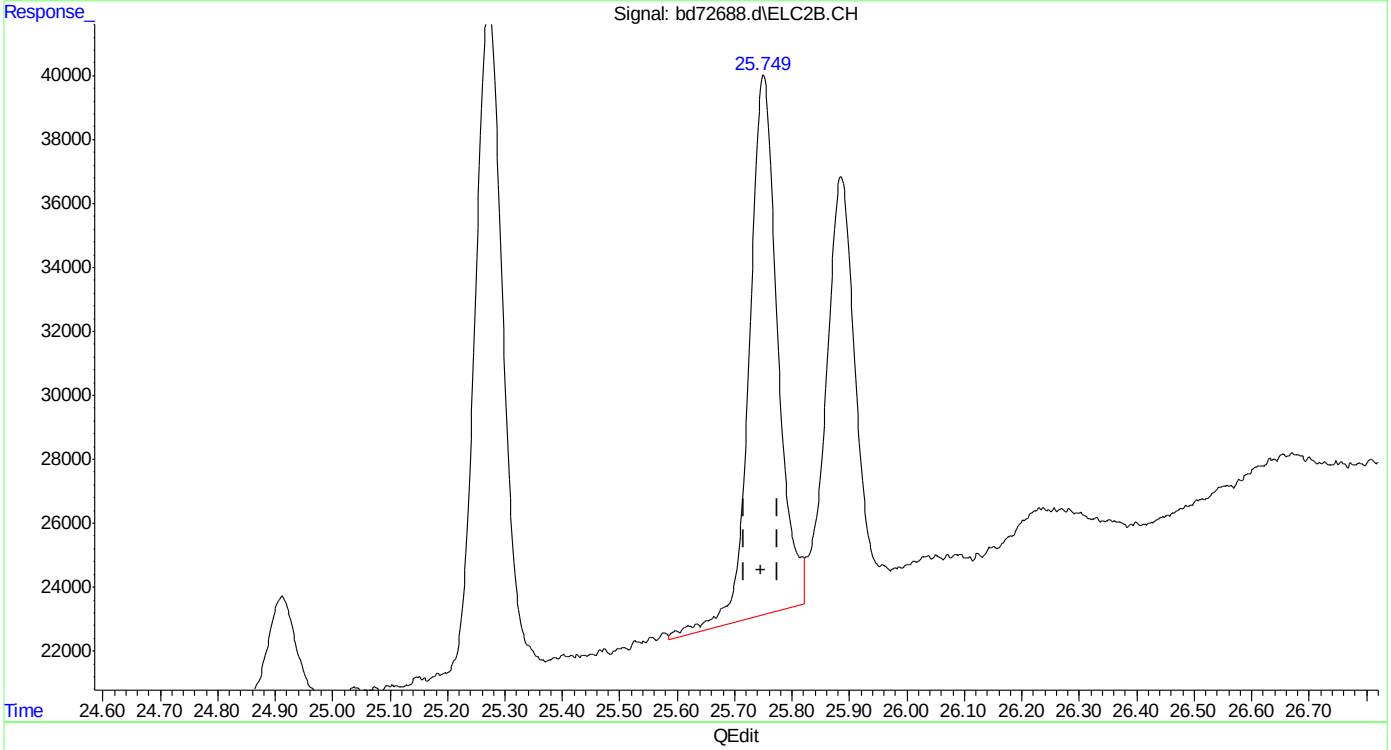
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:00 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
25.751min 1.232 ppb
response 578336

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:05 2016

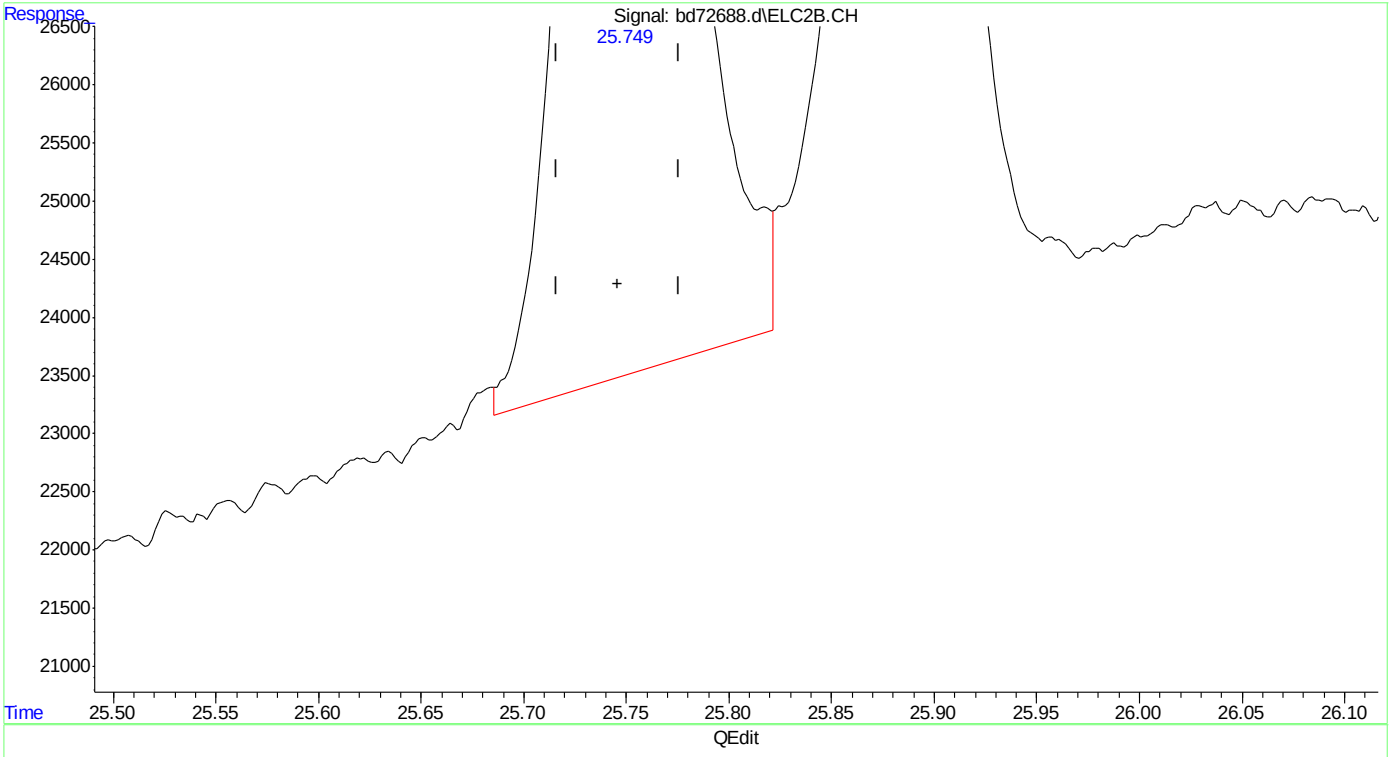
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
25.749min 1.131 ppb m
response 530966

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
28.756min 0.790 ppb
response 228505

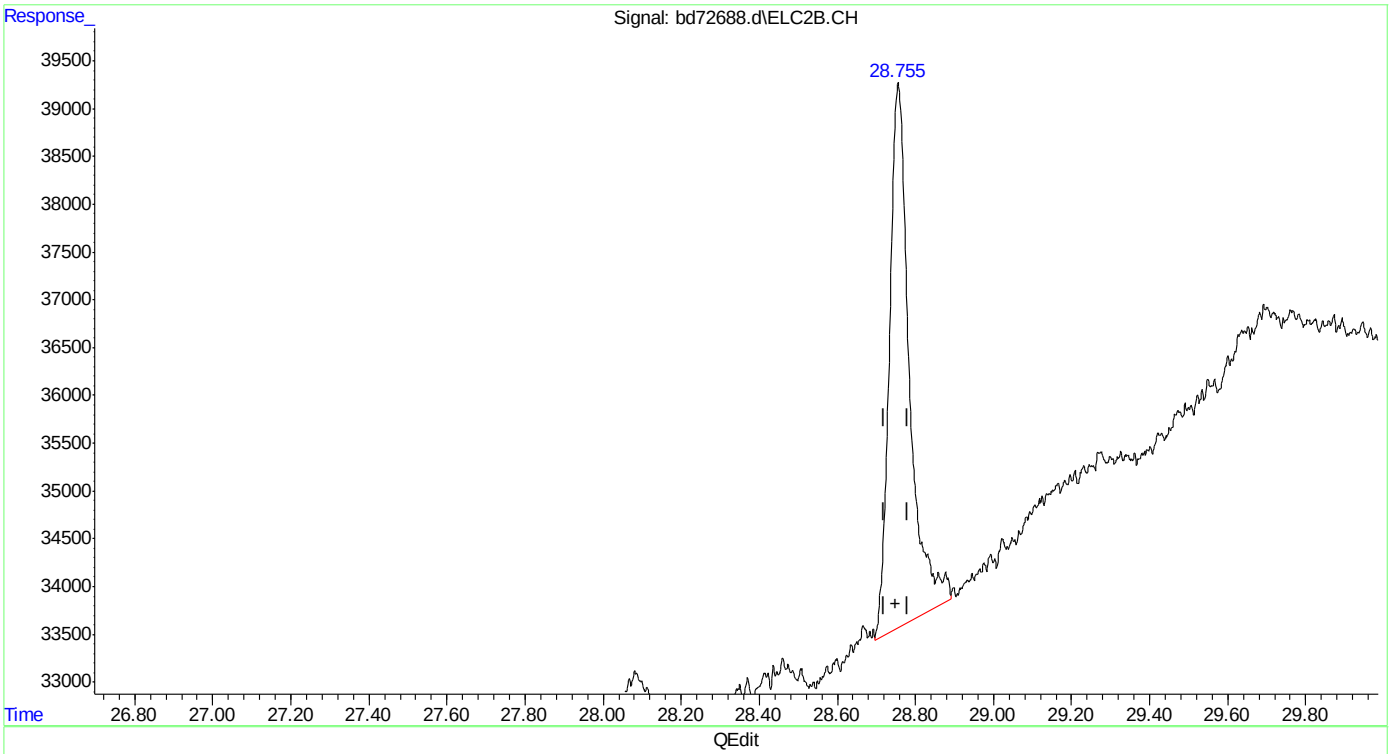
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:07:10 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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
28.755min 0.707 ppb m
response 204485

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:37 2016

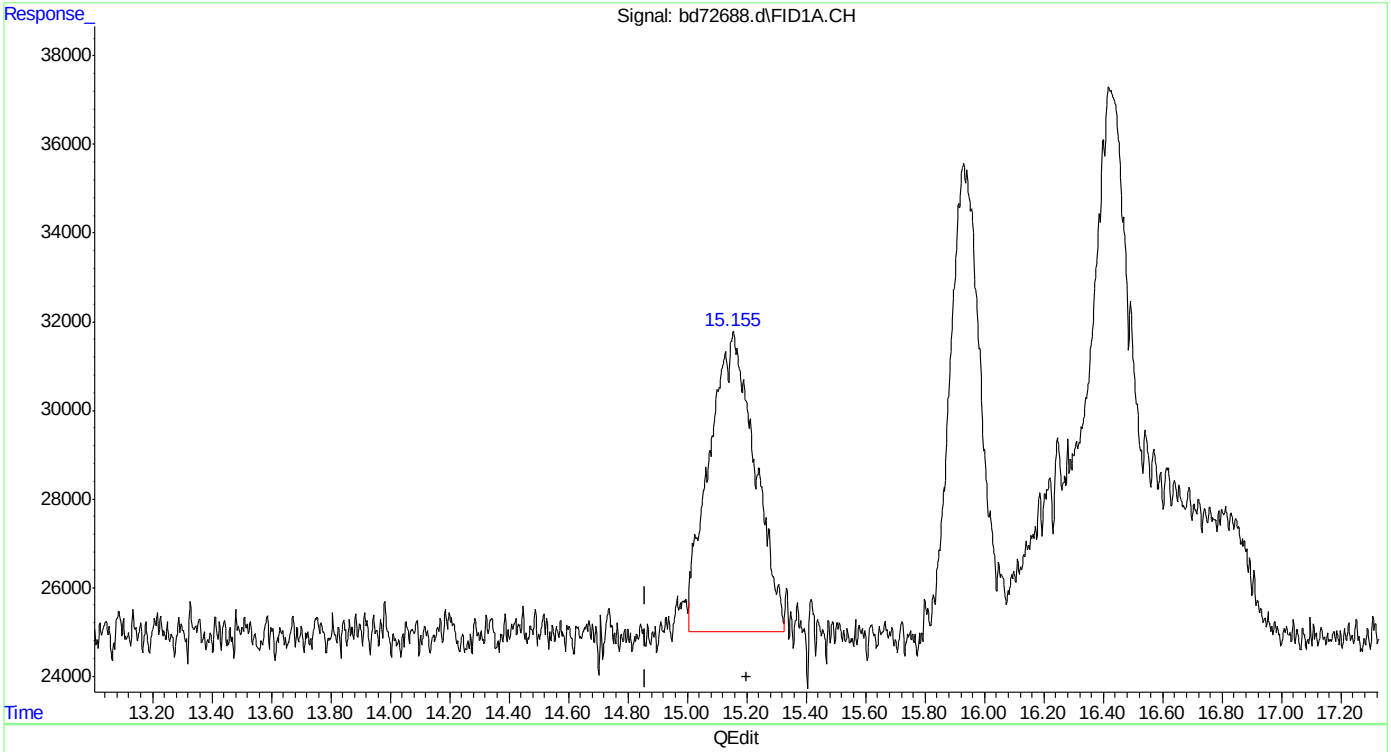
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3752-1
Misc : gc25978,gbd3572,,,,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: Feb 19 13:13:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:50:03 2016
Response via : Initial 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) rt10/13 (h)
15.200min 1.001 ppb m
response 721543

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:14:04 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/23/16 16:08

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.425	35571927	52.281 ppb	m
Spiked Amount 50.000		Recovery	= 104.56%	
6) s 2,3,4-trifluorotoluene	21.239	28429901	54.567 ppb	
Spiked Amount 50.000		Recovery	= 109.13%	
16) s fluorobenzene #2	16.426	15798777	46.569 ppb	
Spiked Amount 50.000		Recovery	= 93.14%	
18) s 2,3,4-trifluorotoluen...	21.238	9231850	46.896 ppb	
Spiked Amount 50.000		Recovery	= 93.79%	
Target Compounds				
1) h rt5.5-7	7.470	32771312	53.136 ppb	m
2) h rt7/10	9.920	37519205	60.834 ppb	m
3) h rt10/13	15.200	36582580	59.315 ppb	m
8) h rt20/25	22.840	38978420	48.709 ppb	m
10) h decane	24.930	37220553	46.513 ppb	
11) h butylcyclohexane	25.908	41168976	51.447 ppb	
14) mtbe #2	10.683	8283695	53.752 ppb	m
15) benzene #2	15.932	24916343	51.522 ppb	
17) toluene #2	20.222	23146349	51.127 ppb	
19) ethylbenzene #2	23.173	20751208	50.002 ppb	
20) m,p-xylene #2	23.309	49993765	100.300 ppb	
21) o-xylene #2	24.030	21057643	48.432 ppb	
22) t 1,3,5-trimethylbenzen...	25.271	32008982	47.701 ppb	
23) 1,2,4-trimethylbenzen...	25.748	24040884	48.876 ppb	
24) naphthalene #2	28.751	19947215	55.260 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	23978907	48.772 ppb	m

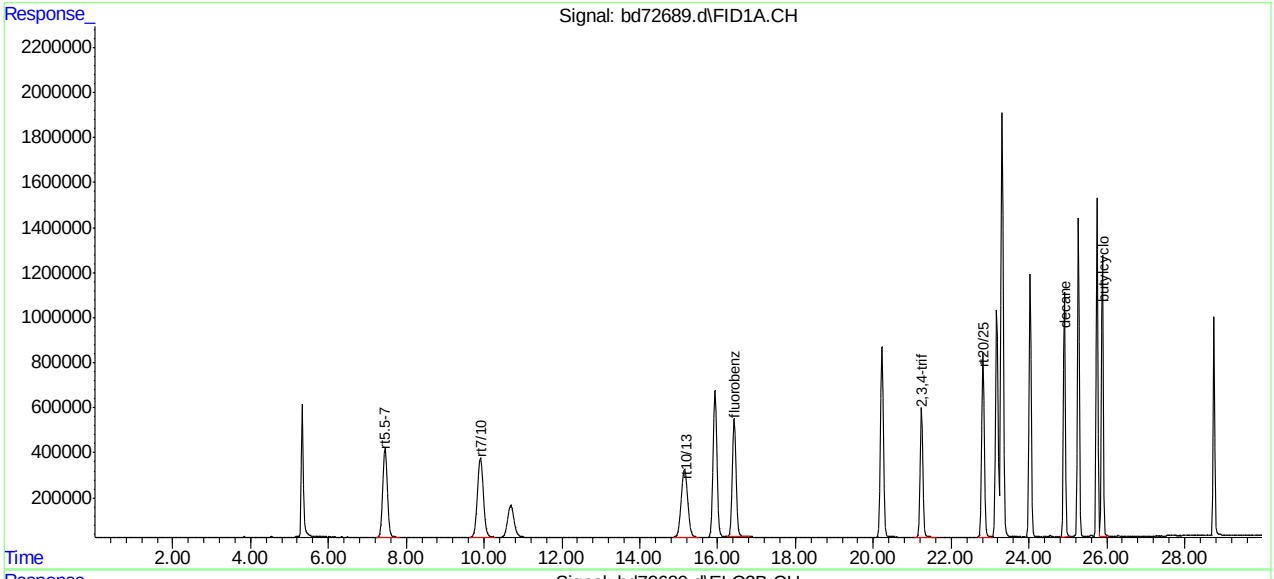
(f)=RT Delta > 1/2 Window (m)=manual int.

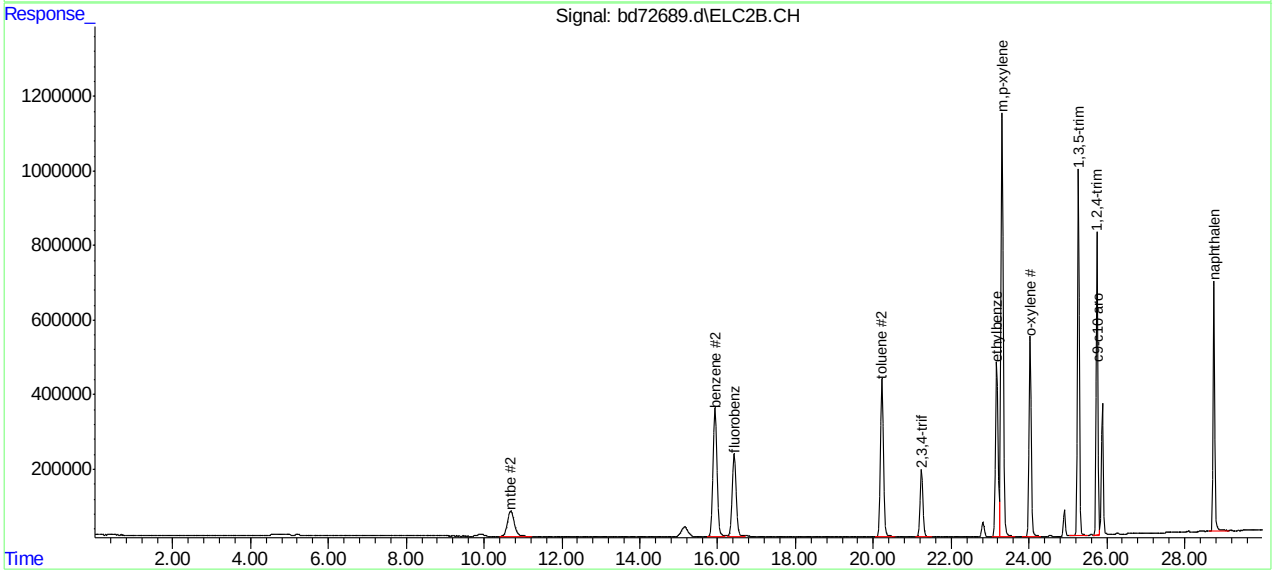
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3572-50 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25978,gbd3572,,,,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: Feb 19 13:52:11 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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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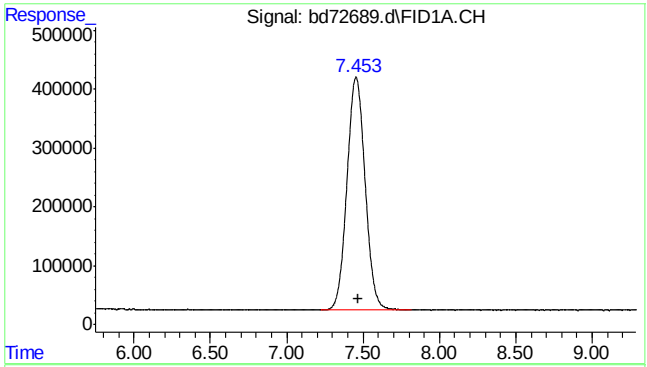
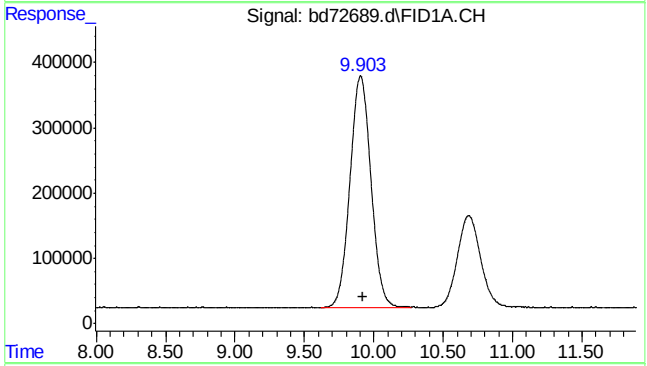


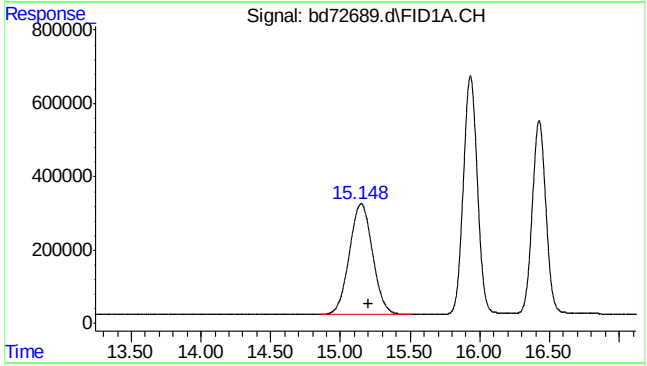
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 32771312
Conc: 53.14 ppb m



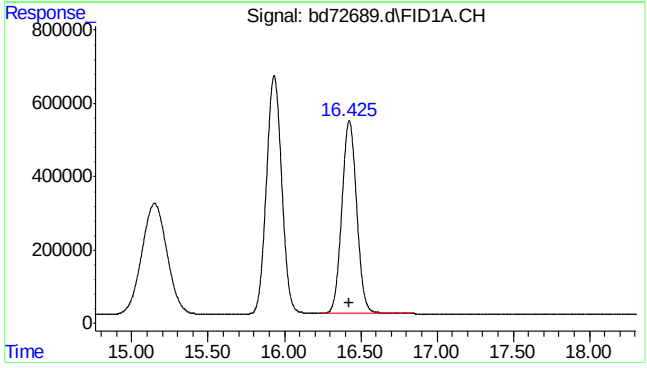
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 37519205
Conc: 60.83 ppb m



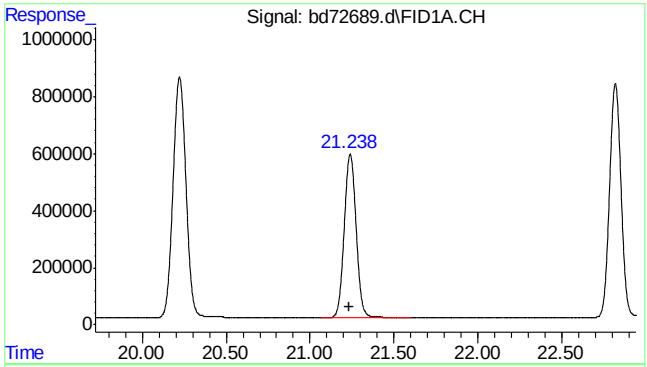
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 36582580
Conc: 59.32 ppb m



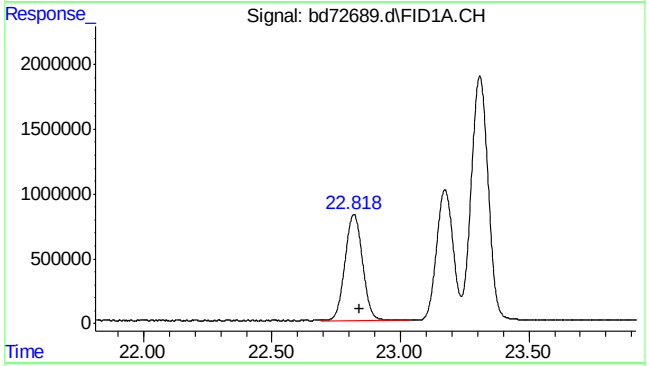
#4 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 35571927
Conc: 52.28 ppb m



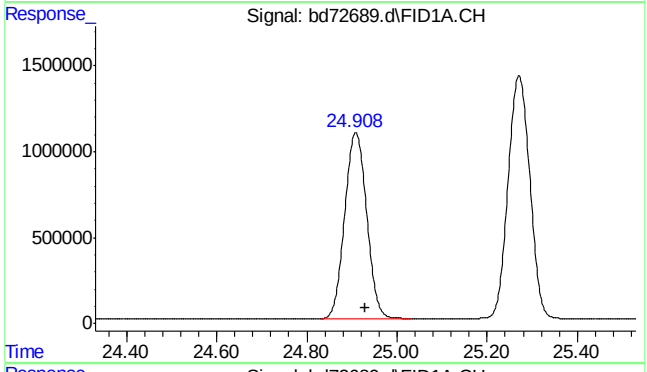
#6 2,3,4-trifluorotoluene

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 28429901
Conc: 54.57 ppb



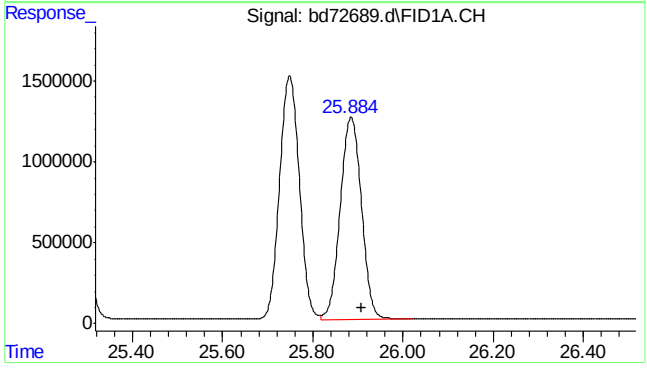
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38978420
Conc: 48.71 ppb m



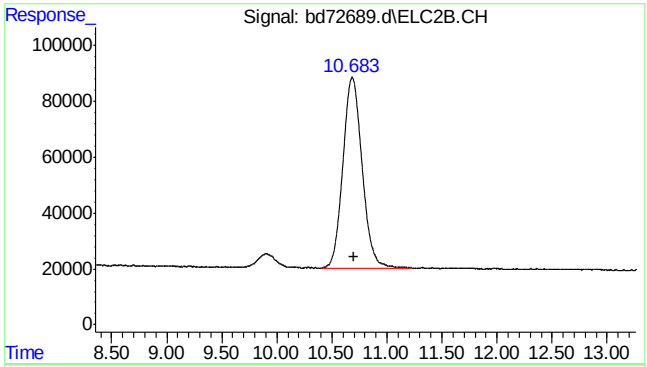
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37220553
Conc: 46.51 ppb



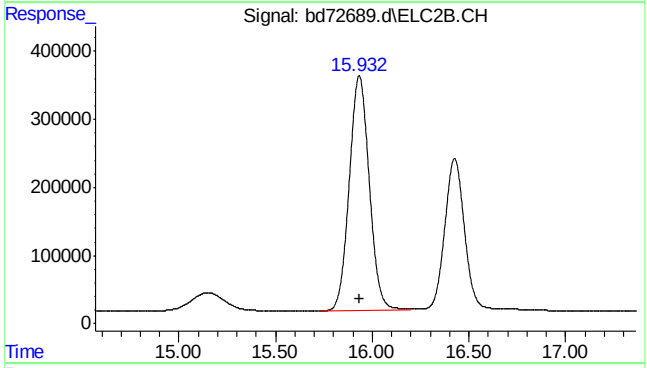
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41168976
Conc: 51.45 ppb



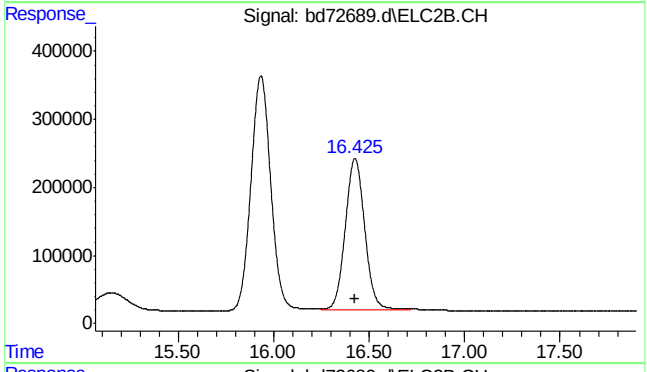
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8283695
Conc: 53.75 ppb m



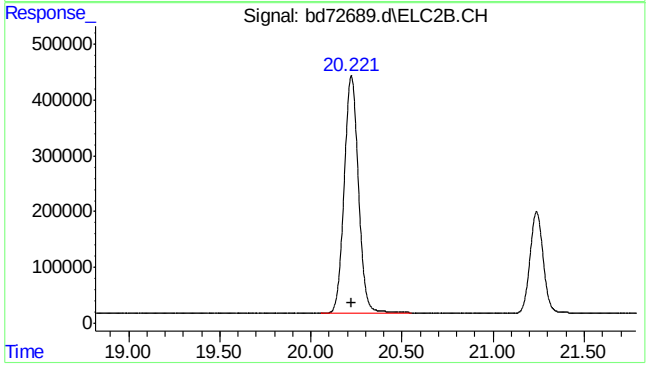
#15 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24916343
Conc: 51.52 ppb



#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15798777
Conc: 46.57 ppb



#17 toluene #2

R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 23146349
Conc: 51.13 ppb

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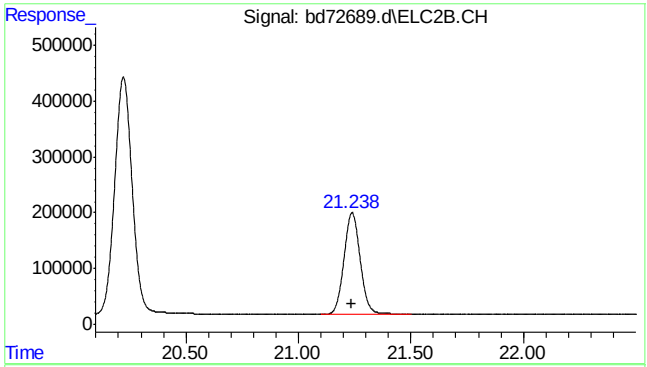
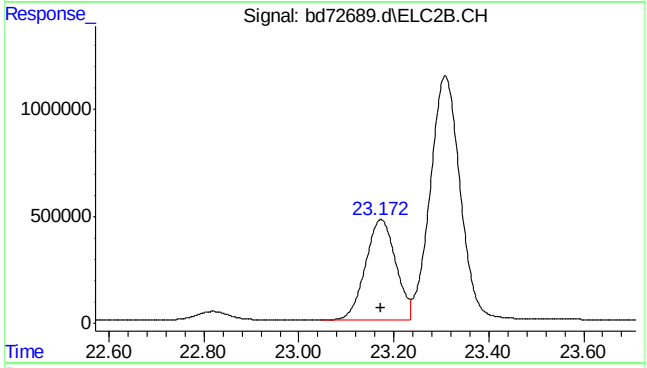


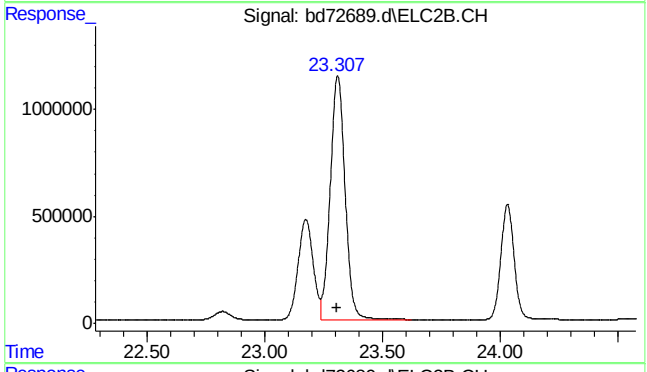
#18 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.002 min
Response: 9231850
Conc: 46.90 ppb



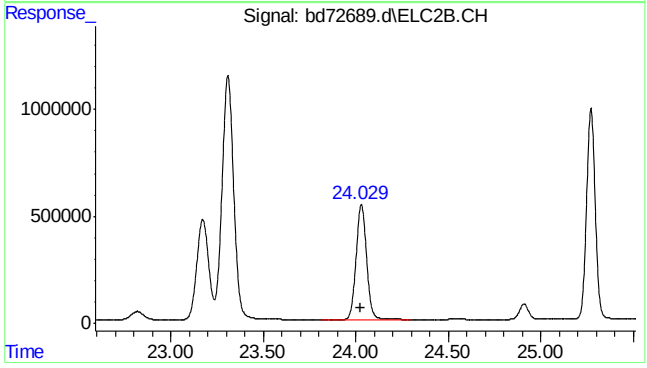
#19 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.000 min
Response: 20751208
Conc: 50.00 ppb



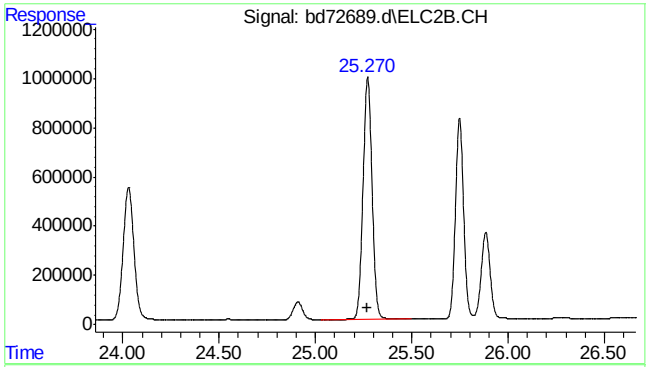
#20 m,p-xylene #2

R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 49993765
Conc: 100.30 ppb



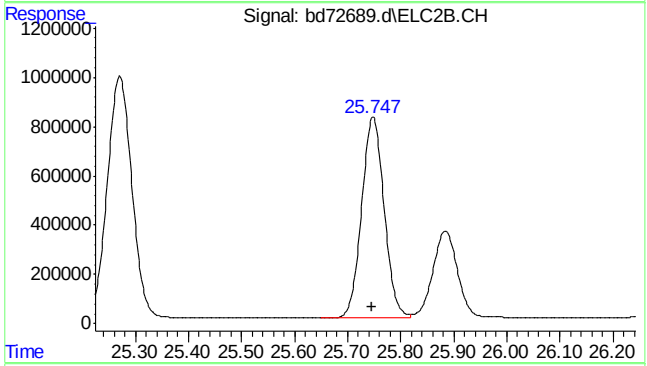
#21 o-xylene #2

R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 21057643
Conc: 48.43 ppb



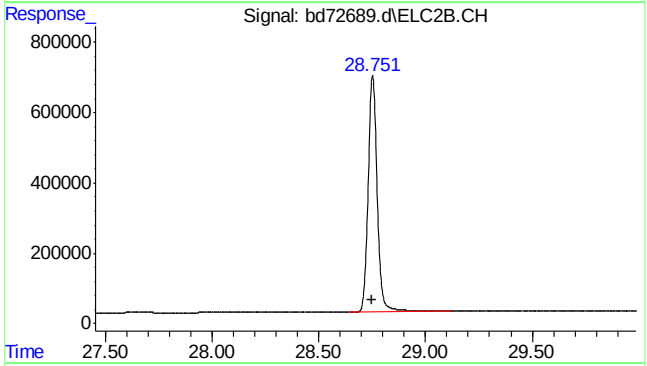
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 32008982
Conc: 47.70 ppb



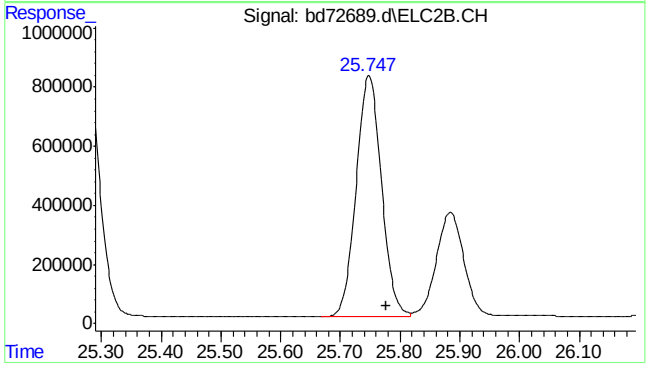
#23 1,2,4-trimethylbenzene #2

R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 24040884
Conc: 48.88 ppb



#24 naphthalene #2

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 19947215
Conc: 55.26 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23978907
Conc: 48.77 ppb m

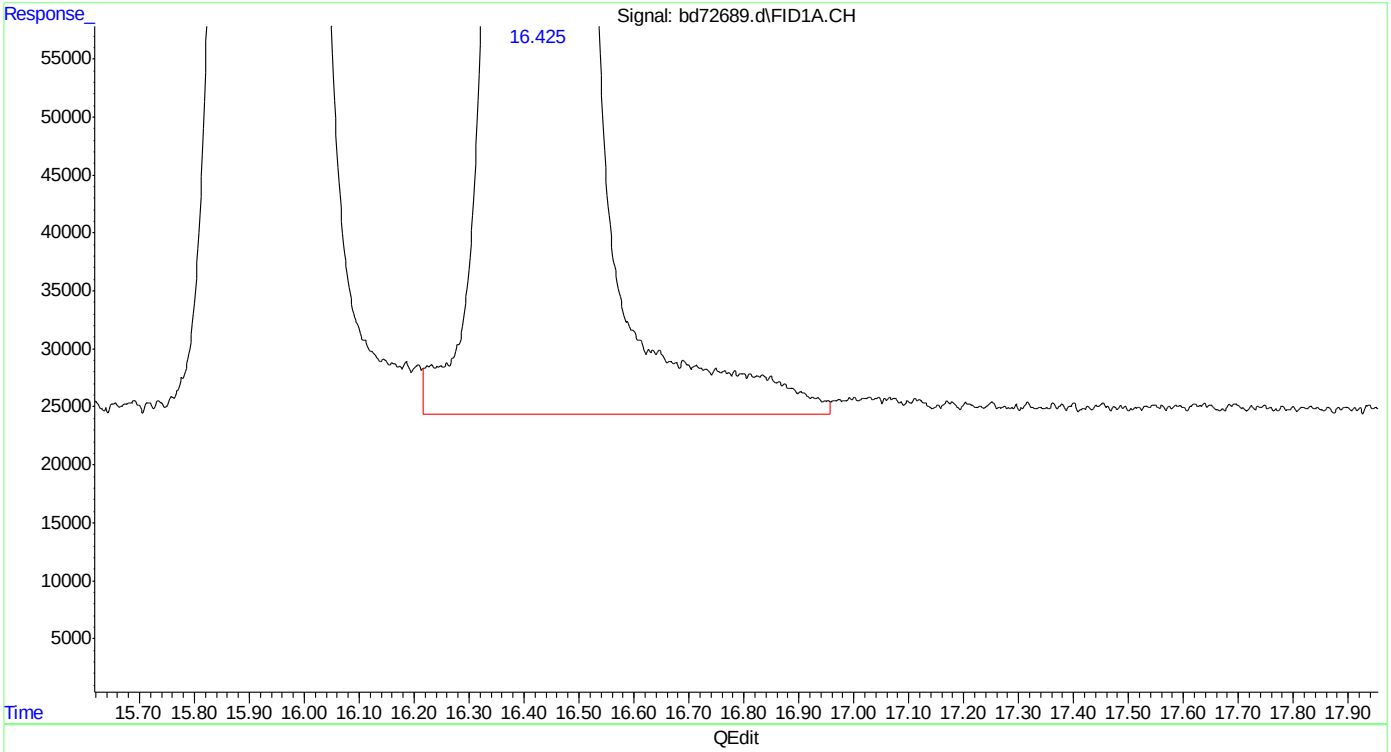
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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)
16.426min 54.445 ppb
response 37044915

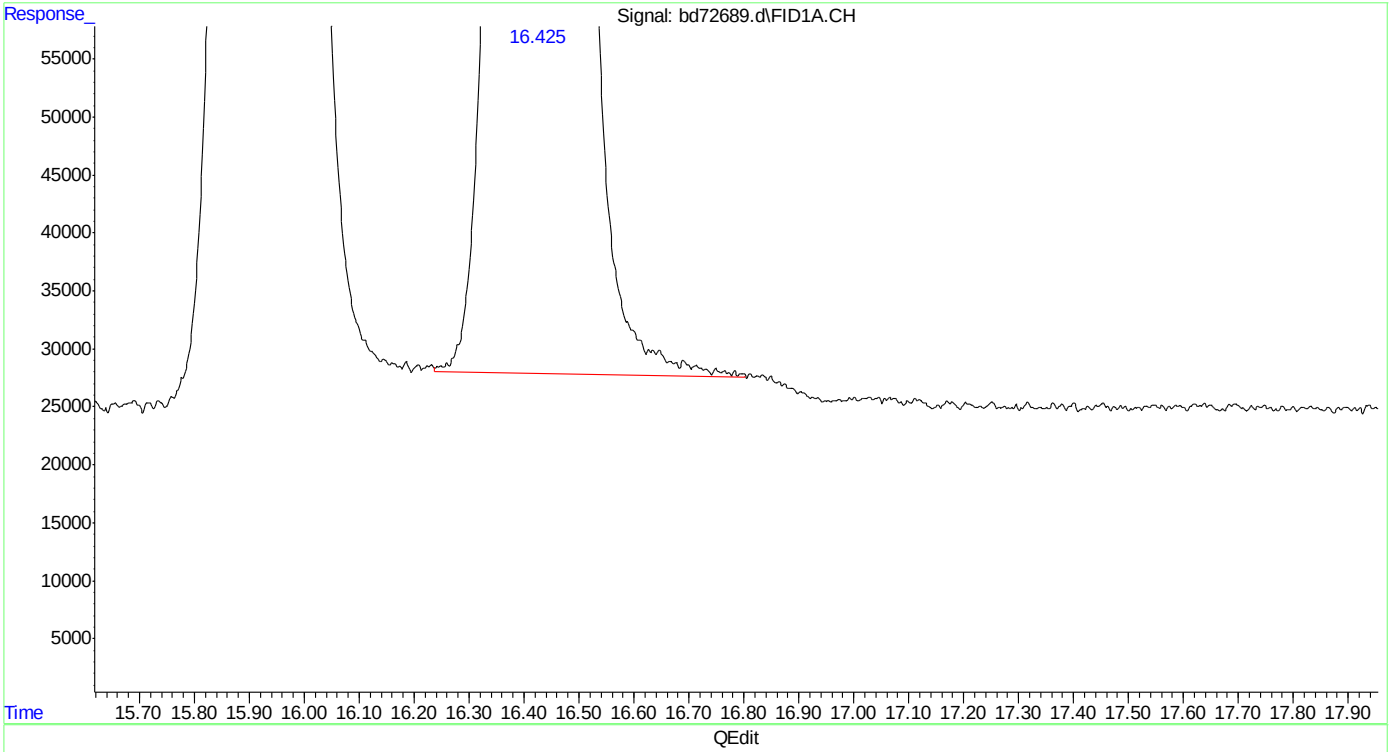
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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)
16.425min 52.341 ppb m
response 35613038

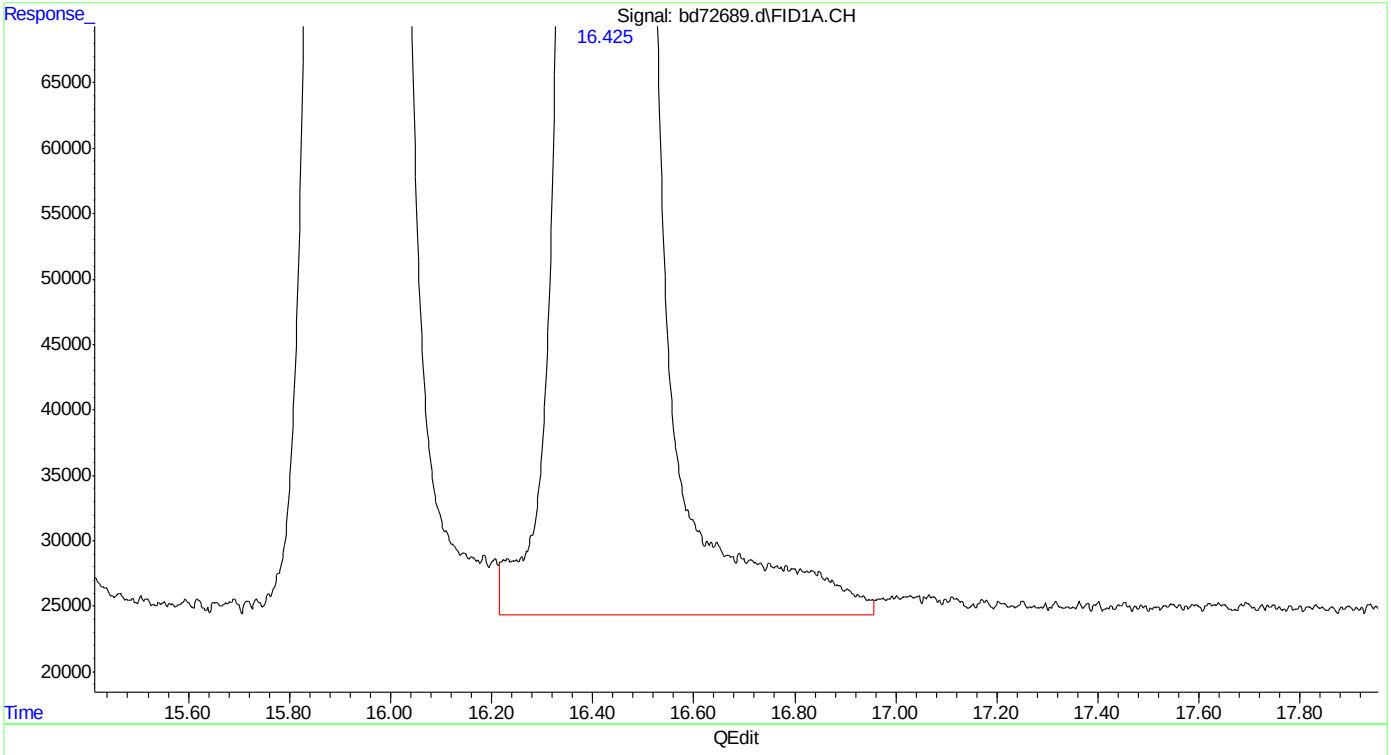
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:30 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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)
16.426min 54.445 ppb
response 37044915

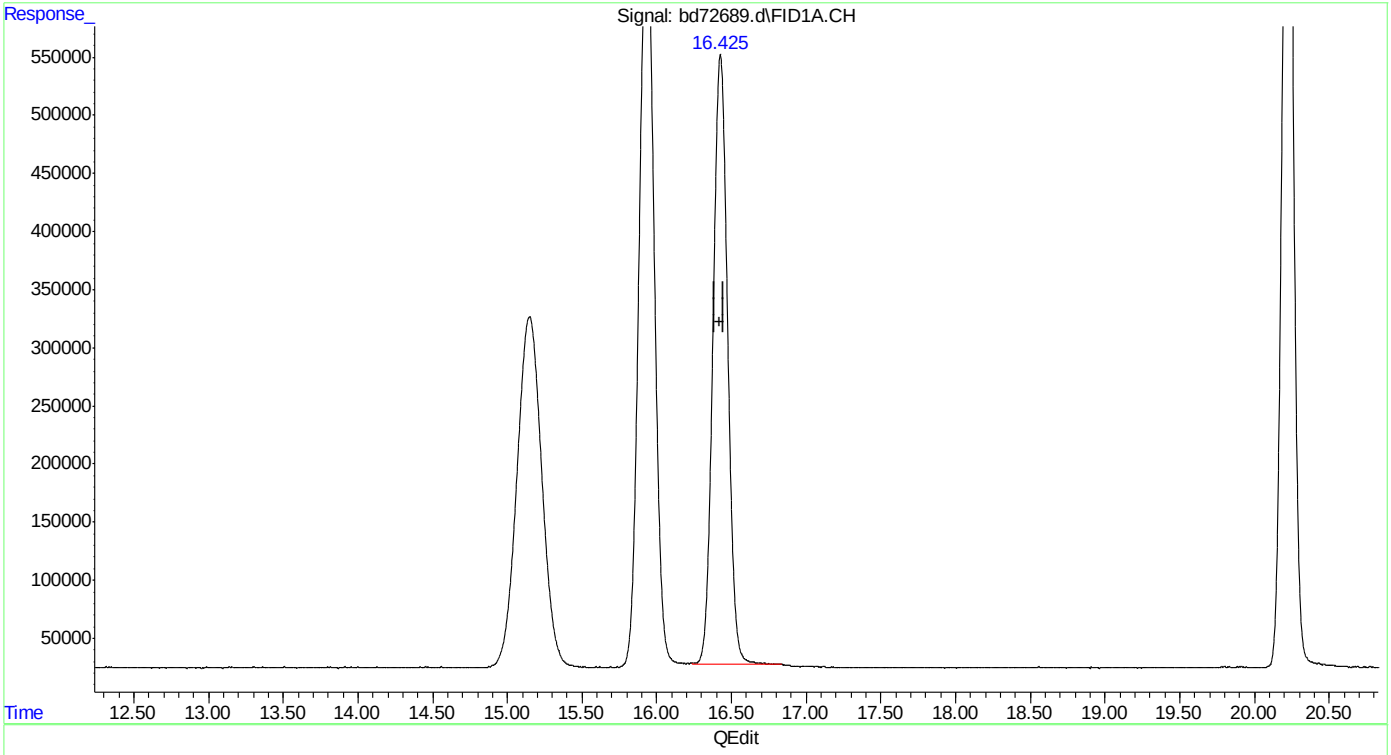
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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)
16.425min 52.281 ppb m
response 35571927

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:36 2016

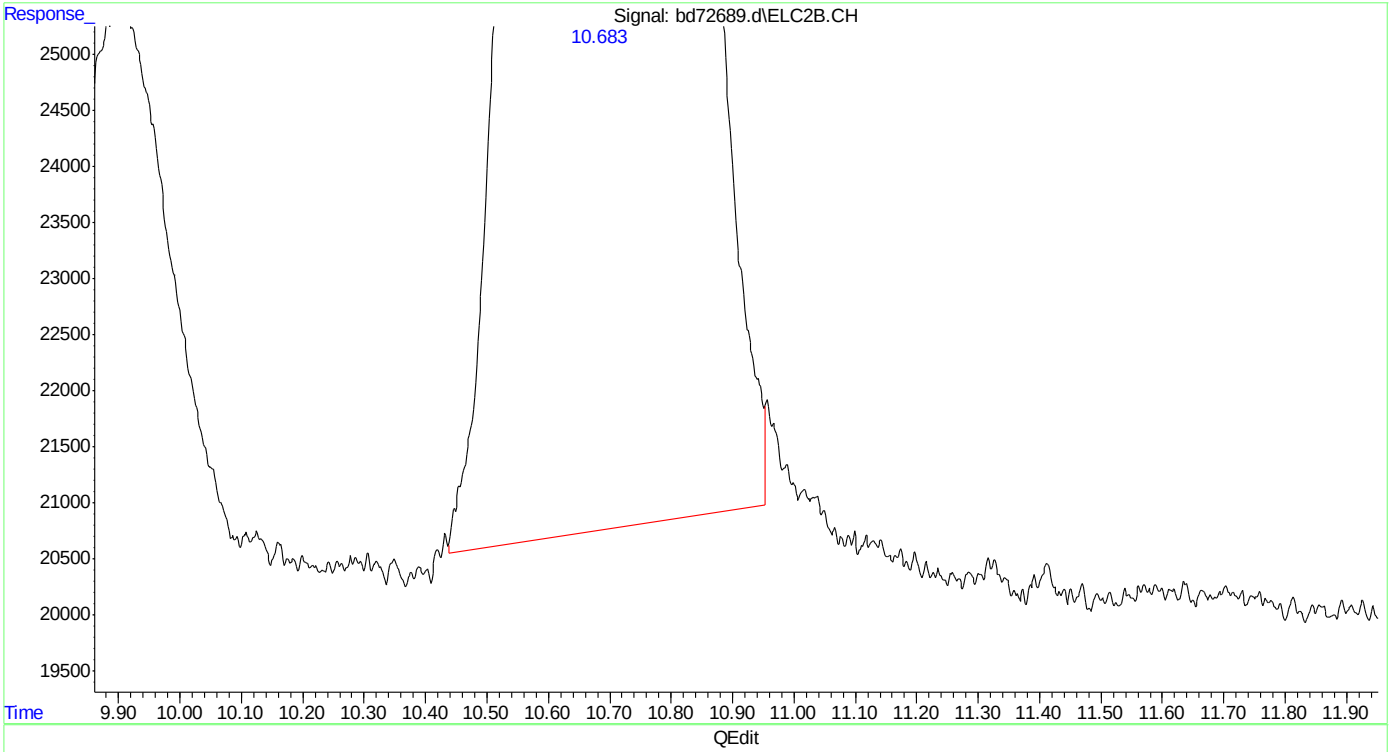
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.684min 52.354 ppb
response 8068180

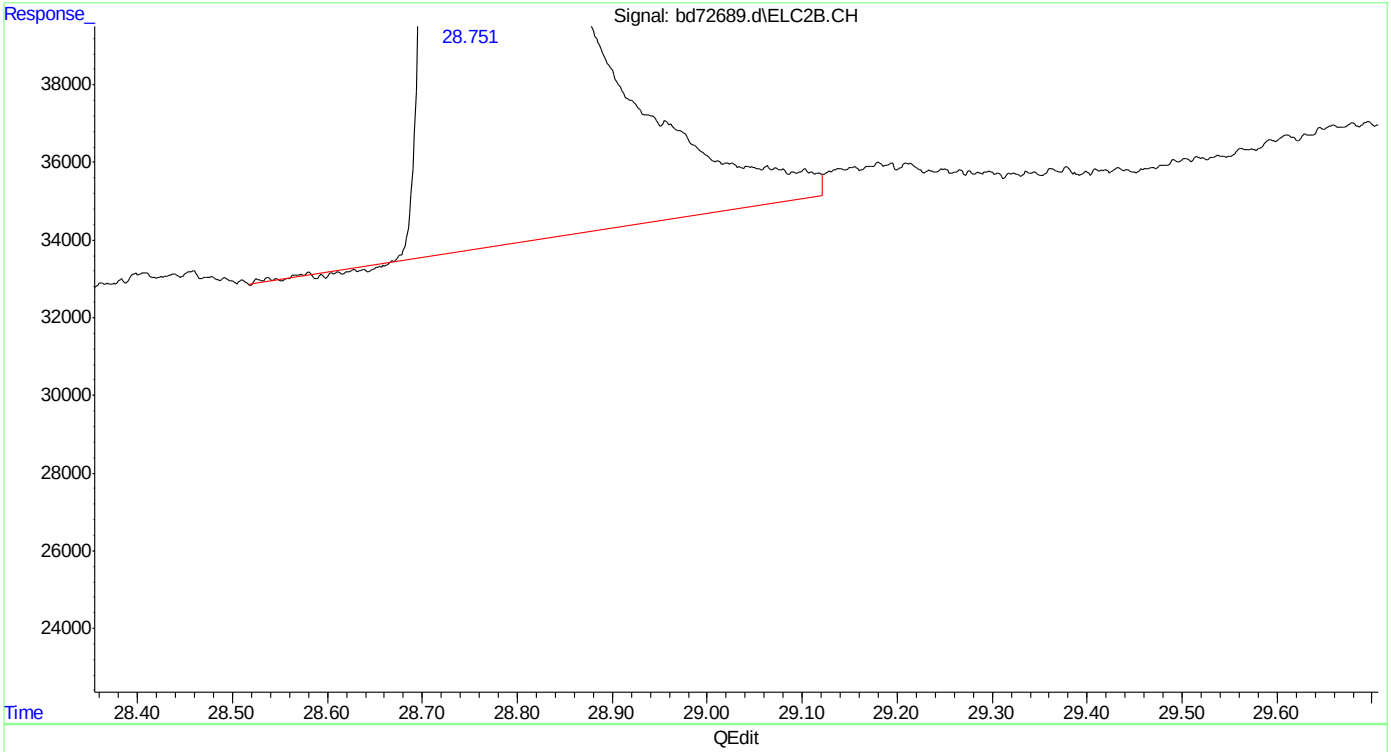
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.752min 55.237 ppb
response 19938925

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:02 2016

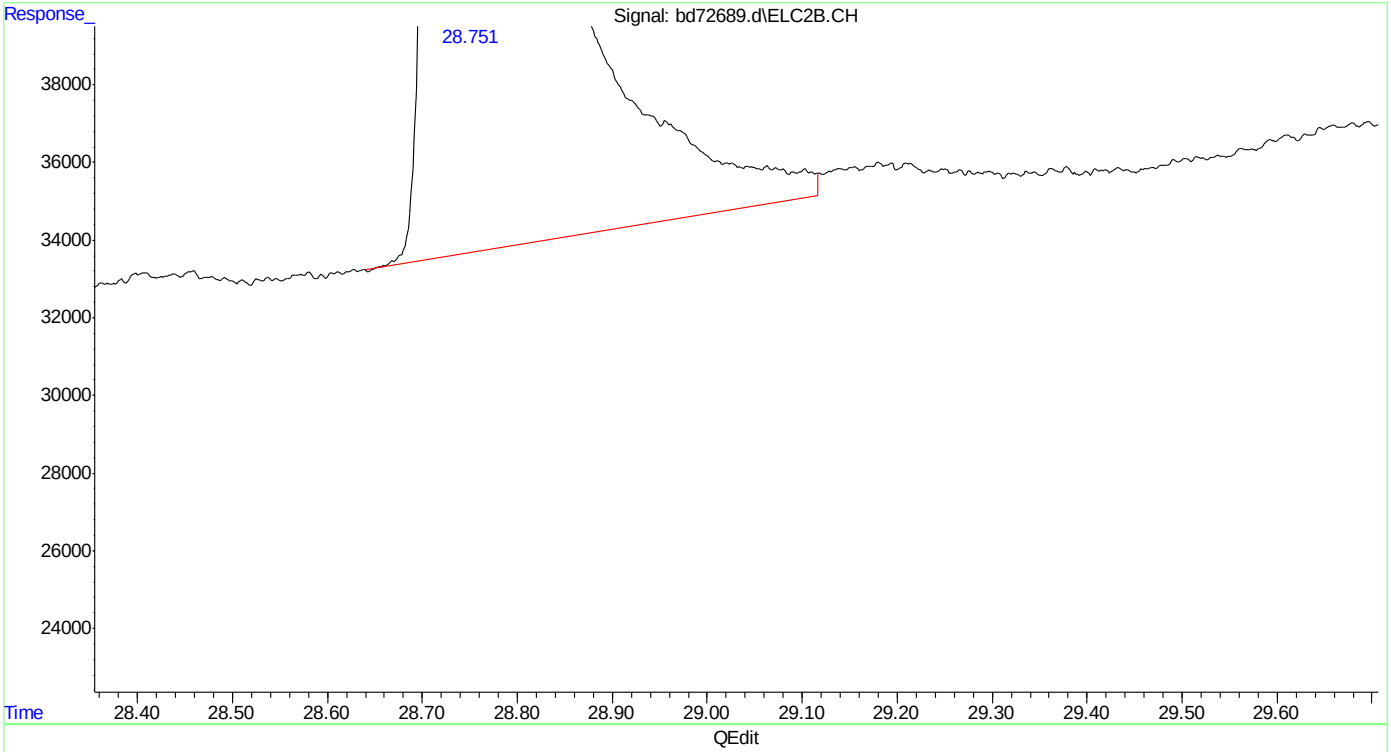
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3752-50
Misc : gc25978,gbd3572,,,,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: Feb 19 13:49:41 2016
Quant Method : C:\msdchem\1\methods\bd160219vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.751min 55.260 ppb m
response 19947215

(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:07 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
03/14/16 16:56

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3577-650 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25994,gbd3577,,,,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: Feb 22 16:00:06 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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					
1) s fluorobenzene	16.425f	36356527	53.946	ppb	m
Spiked Amount 50.000		Recovery = 107.89%			
2) s 2,3,4-trifluorotoluene	21.239f	28429901	54.322	ppb	
Spiked Amount 50.000		Recovery = 108.64%			
Target Compounds					
3) h rt20/25	22.830	532163681	703.683	ppb	m

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

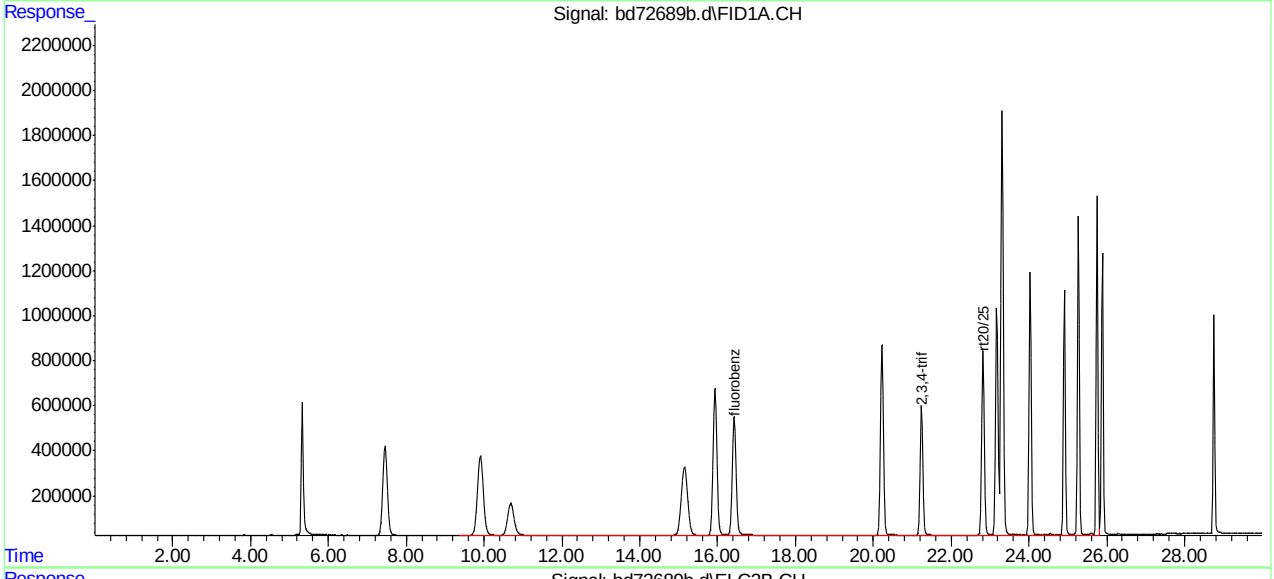
SGS ACCUTEST MC45799

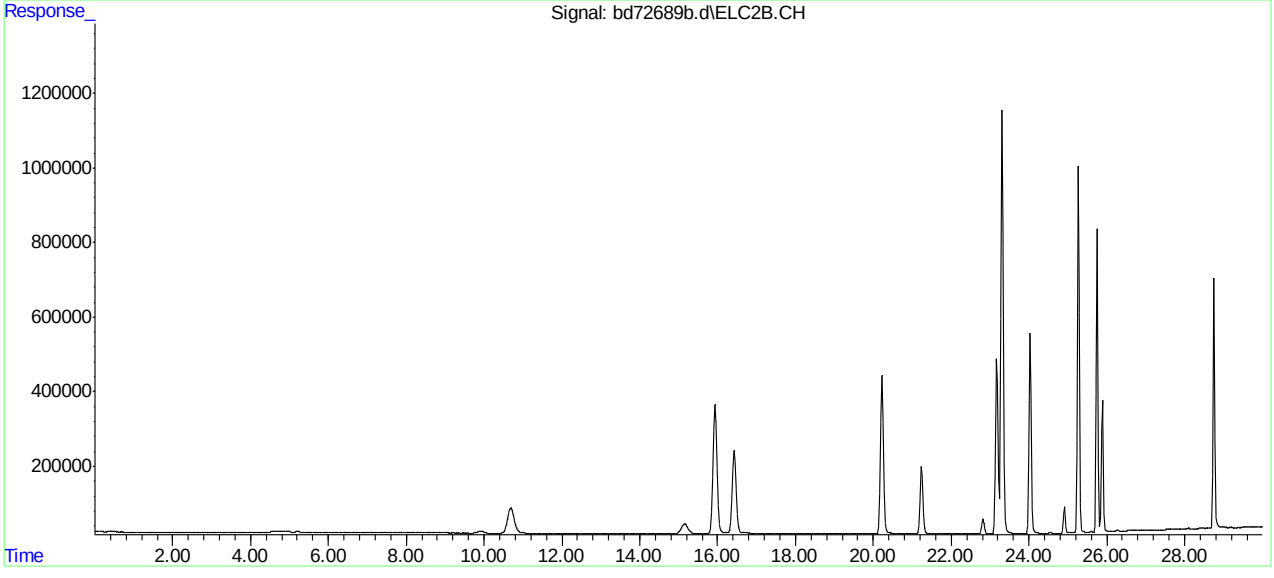
Quantitation Report (QT Reviewed)

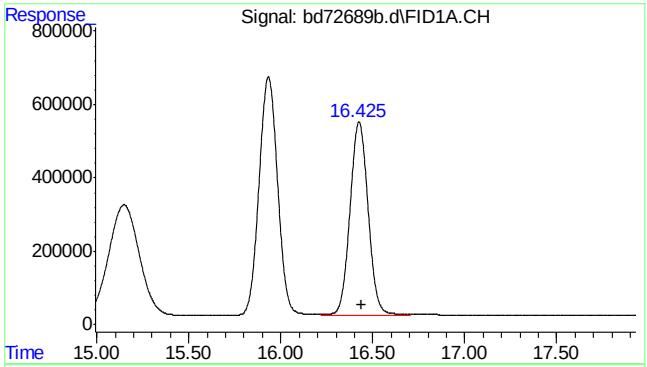
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689b.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 13:13:33
Operator : tonyf
Sample : icv3577-650 (Sig #1); icv3752-50 (Sig #2)
Misc : gc25994,gbd3577,,,,5,1
ALS Vial : 10 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 22 16:00:06 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

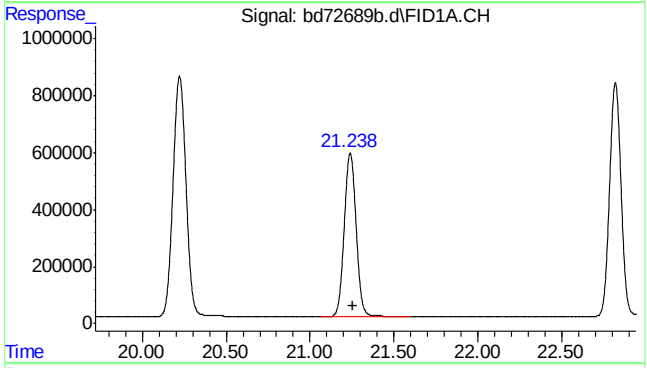






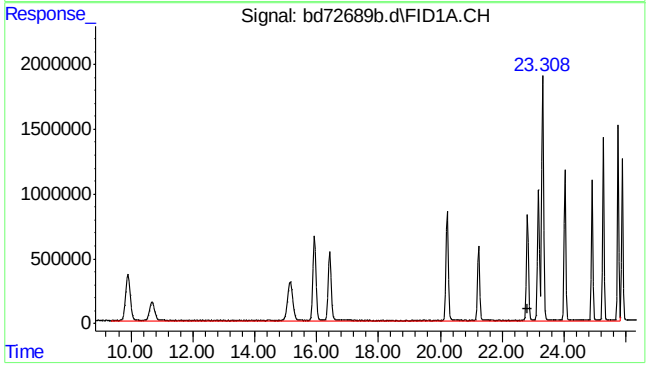
#1 fluorobenzene

```
      R.T.:   16.425 min
Delta R.T.:   -0.018 min
  Response:  36356527
      Conc:  53.95 ppb m
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.239 min
Delta R.T.:   -0.015 min
  Response:  28429901
      Conc:  54.32 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 532163681
      Conc: 703.68 ppb m
```

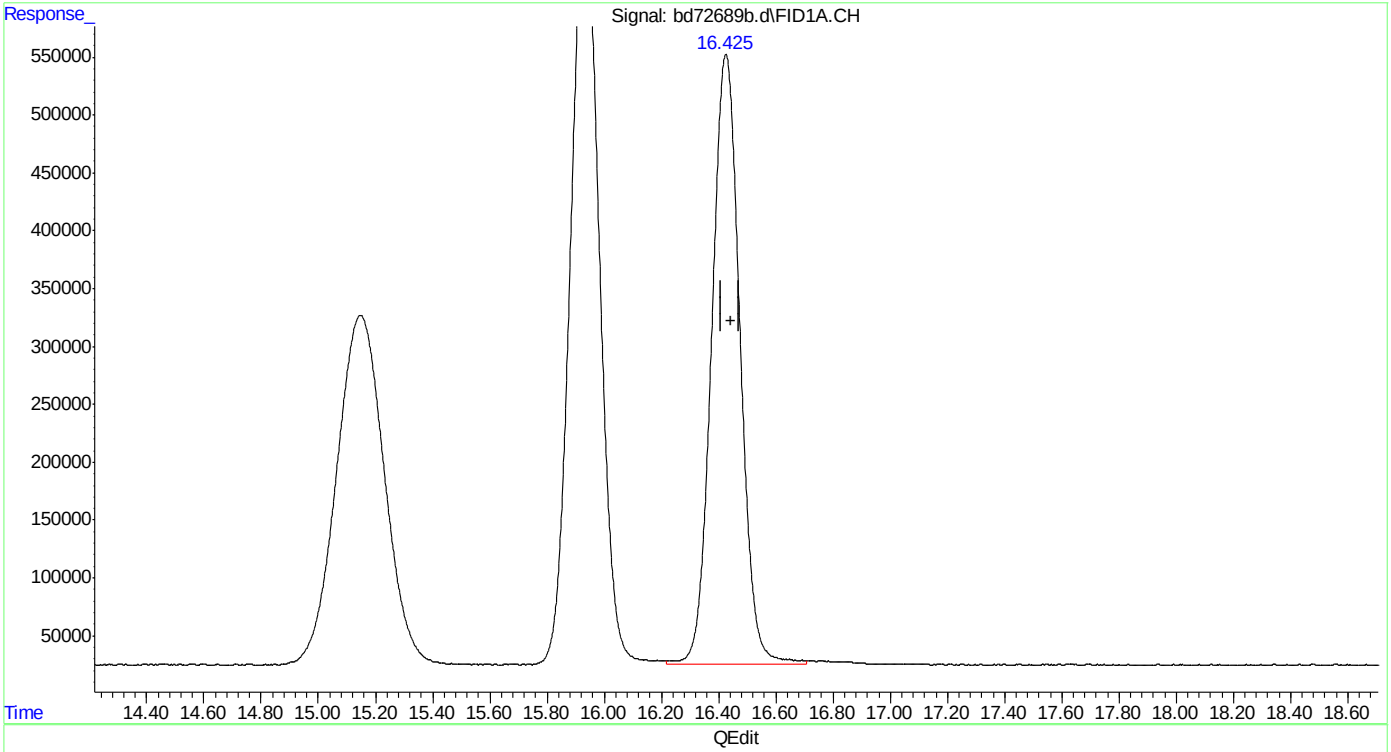

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72689b.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 19-Feb-16, 13:13:33
Operator  : tonyf
Sample    : icv3577-650 (Sig #1); icv3752-50 (Sig #2)
Misc      : gc25994,gbd3577,,,,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: Feb 22 15:59:25 2016
Quant Method : C:\msdchem\1\methods\bd160219v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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) fluorobenzene (s)

16.425min 53.946 ppb m

response 36356527

(+) = Expected Retention Time

bd160219v8015gro.M Mon Feb 22 15:59:37 2016

SGS ACCUTEST MC45799

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 08:53:46
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:29:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.425	39698814	58.346 ppb	
Spiked Amount 50.000		Recovery	= 116.69%	
6) s 2,3,4-trifluorotoluene	21.243	30870511	59.252 ppb	
Spiked Amount 50.000		Recovery	= 118.50%	
16) s fluorobenzene #2	16.425	15843605	46.701 ppb	
Spiked Amount 50.000		Recovery	= 93.40%	
18) s 2,3,4-trifluorotoluen...	21.243	9077434	46.112 ppb	
Spiked Amount 50.000		Recovery	= 92.22%	
Target Compounds				
1) h rt5.5-7	7.470	31661307	51.336 ppb	m
2) h rt7/10	9.920	37078790	60.120 ppb	m
3) h rt10/13	15.200	32926237	53.387 ppb	m
8) h rt20/25	22.840	39230999	49.025 ppb	m
10) h decane	24.930	41304759	51.617 ppb	
11) h butylcyclohexane	25.908	46574892	58.202 ppb	
14) mtbe #2	10.683	8061441	52.310 ppb	m
15) benzene #2	15.932	24393983	50.442 ppb	
17) toluene #2	20.225	22632593	49.993 ppb	
19) ethylbenzene #2	23.179	20237817	48.764 ppb	
20) m,p-xylene #2	23.314	49285694	98.879 ppb	
21) o-xylene #2	24.036	20850337	47.955 ppb	
22) t 1,3,5-trimethylbenzen...	25.278	29925224	44.596 ppb	
23) 1,2,4-trimethylbenzen...	25.756	23356709	47.485 ppb	
24) naphthalene #2	28.764	19015332	52.705 ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.777	23370727	47.535 ppb	m

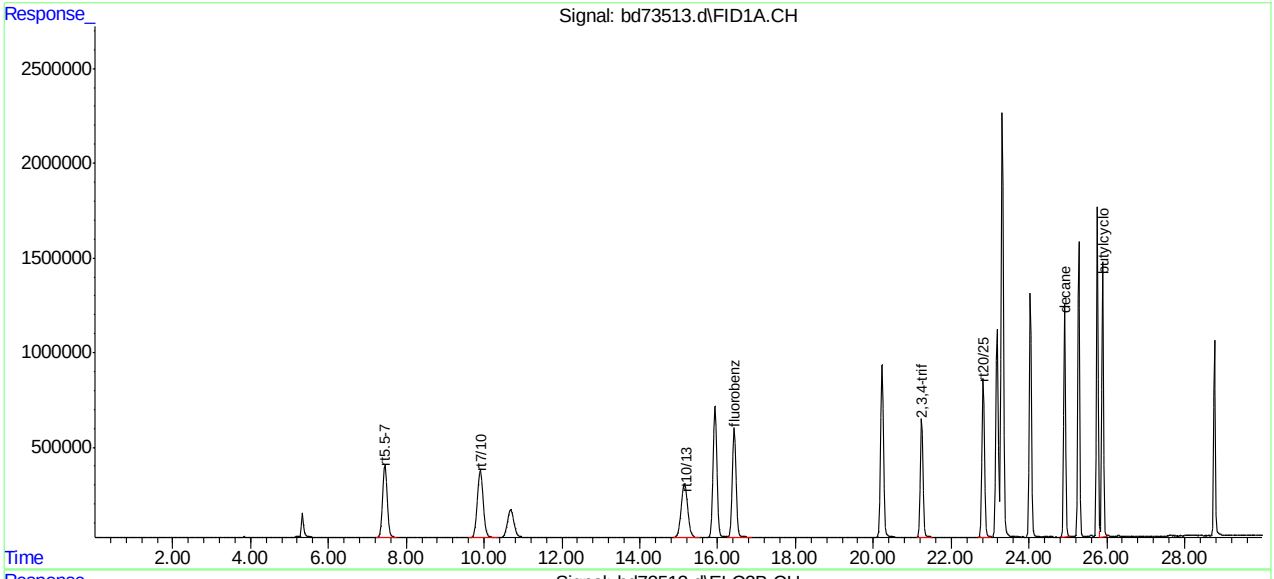
(f)=RT Delta > 1/2 Window (m)=manual int.

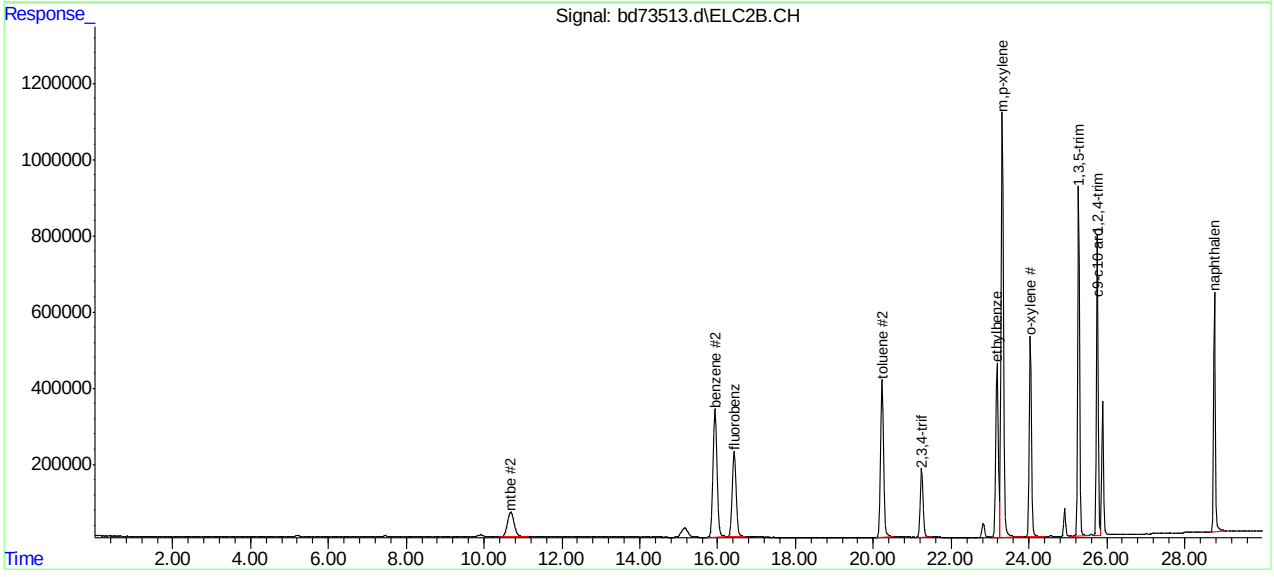
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 08:53:46
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

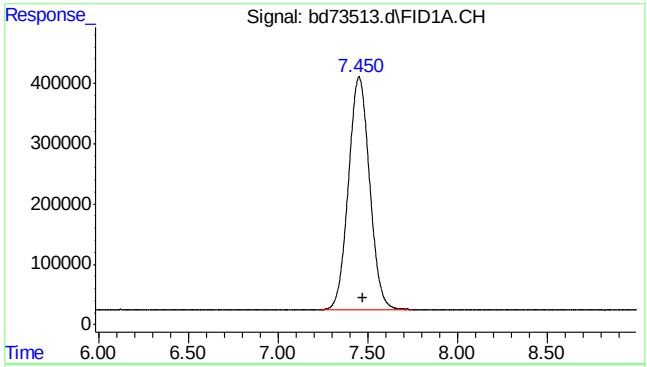
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:29:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



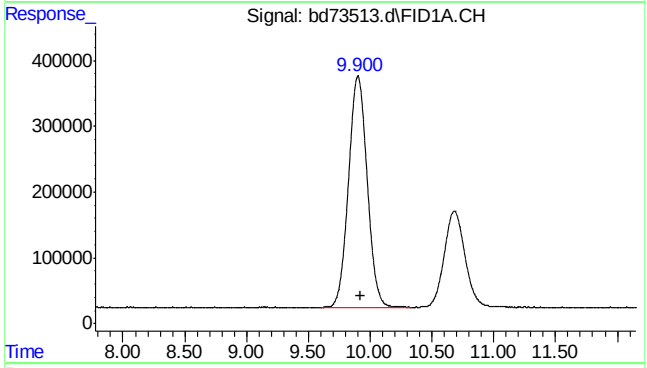


SGS ACCUTEST MC45799



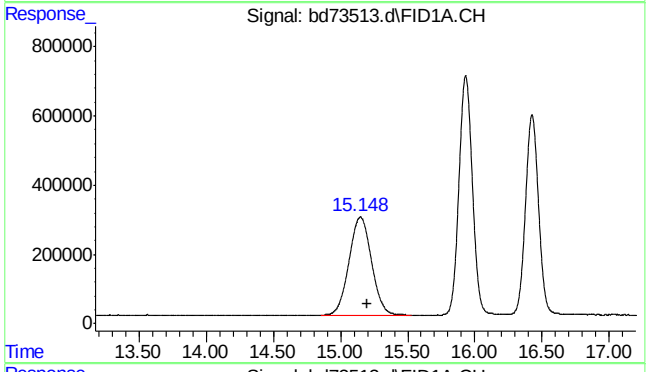
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 31661307
Conc: 51.34 ppb m



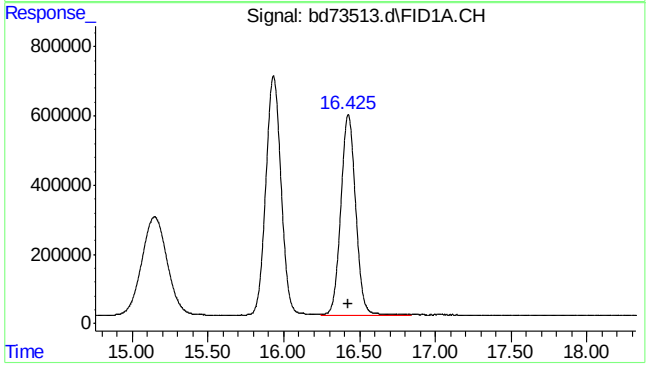
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 37078790
Conc: 60.12 ppb m



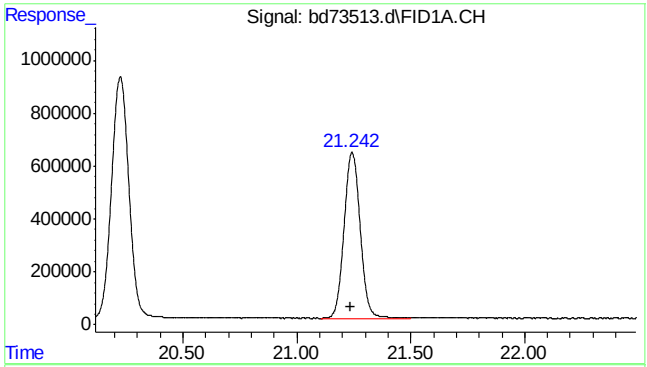
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 32926237
Conc: 53.39 ppb m



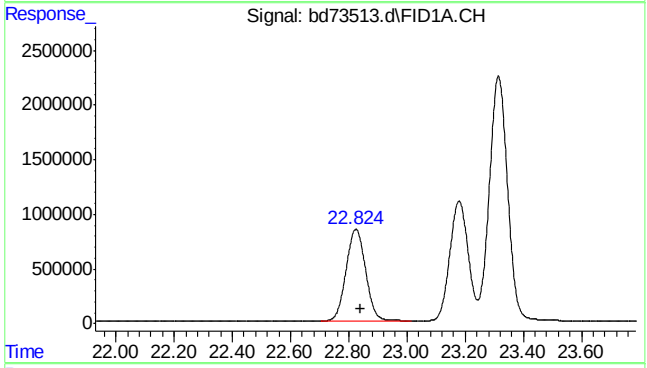
#4 fluorobenzene

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 39698814
Conc: 58.35 ppb



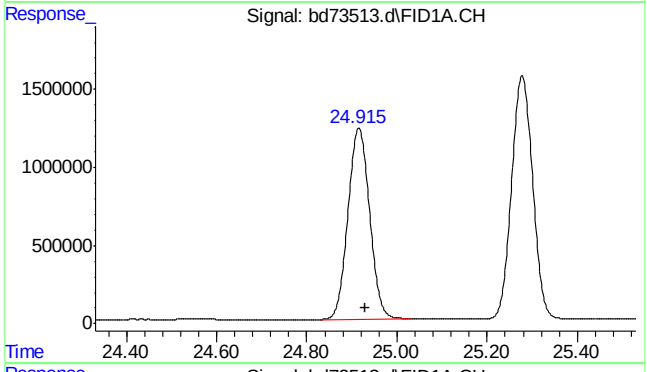
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 30870511
Conc: 59.25 ppb



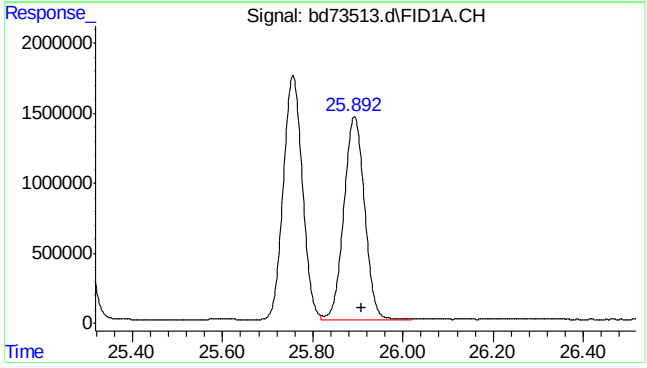
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 39230999
Conc: 49.03 ppb m



#10 decane

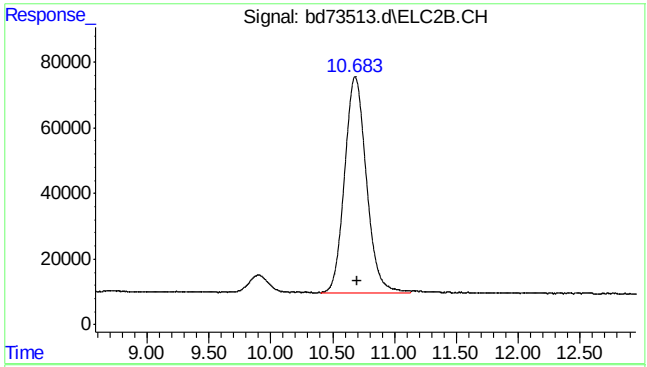
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 41304759
Conc: 51.62 ppb



#11 butylcyclohexane

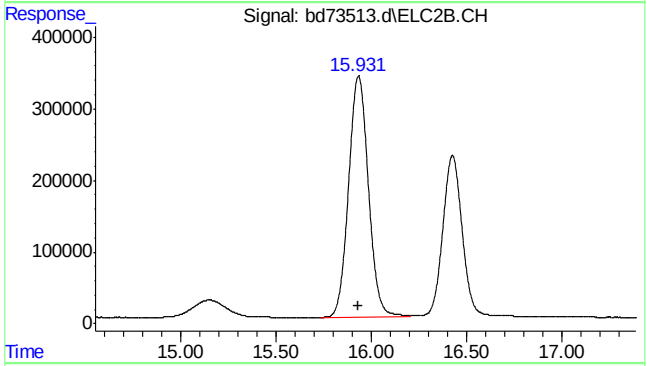
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 46574892
Conc: 58.20 ppb

SGS ACCUTEST MC45799



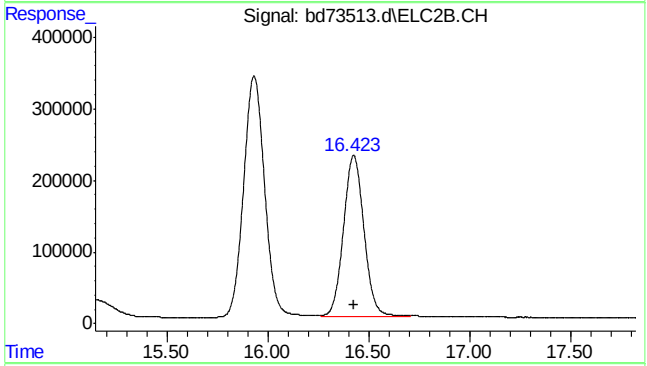
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8061441
Conc: 52.31 ppb m



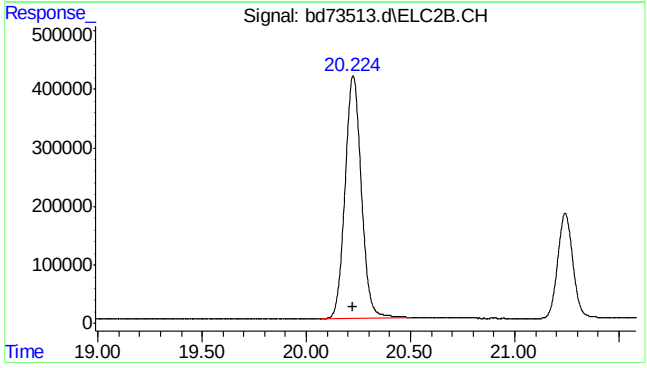
#15 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24393983
Conc: 50.44 ppb



#16 fluorobenzene #2

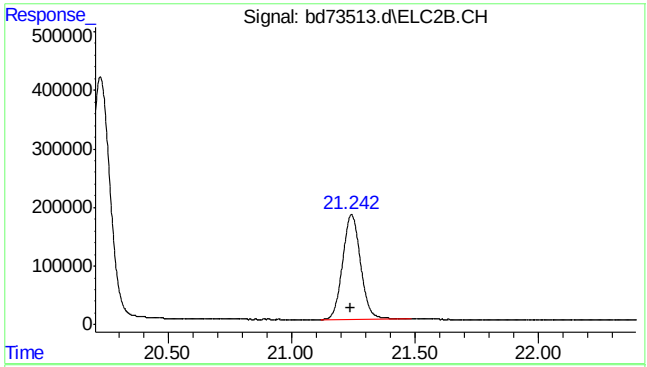
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15843605
Conc: 46.70 ppb



#17 toluene #2

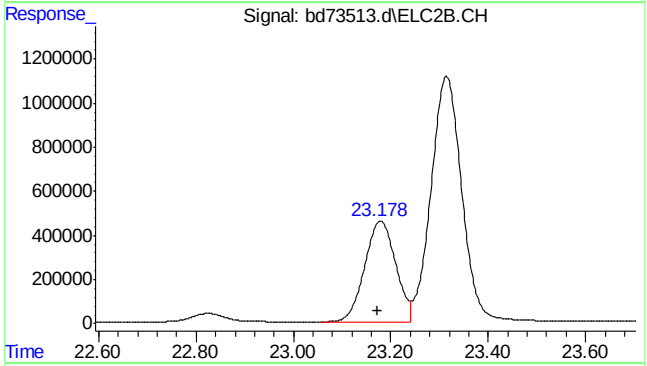
R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 22632593
Conc: 49.99 ppb

SGS ACCUTEST MC45799



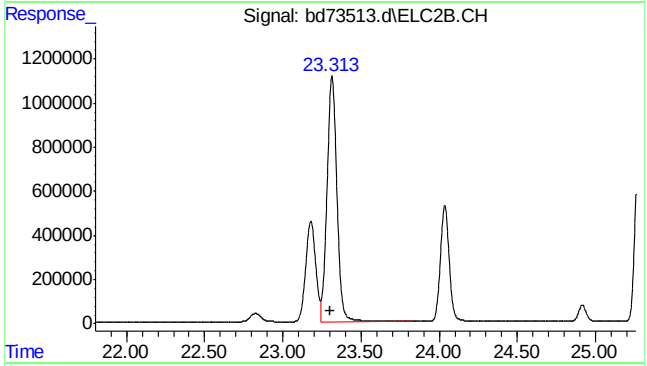
#18 2,3,4-trifluorotoluene #2

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 9077434
Conc: 46.11 ppb



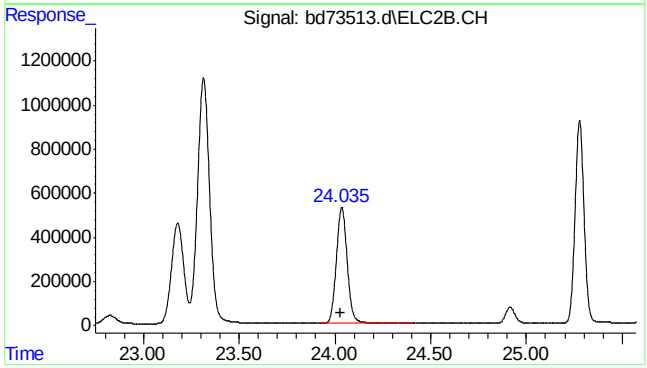
#19 ethylbenzene #2

R.T.: 23.179 min
Delta R.T.: 0.007 min
Response: 20237817
Conc: 48.76 ppb



#20 m,p-xylene #2

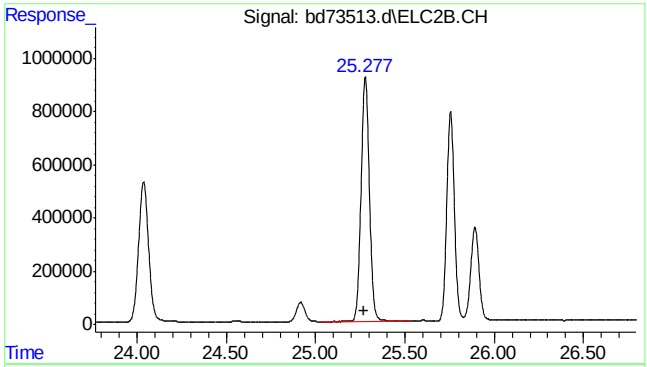
R.T.: 23.314 min
Delta R.T.: 0.007 min
Response: 49285694
Conc: 98.88 ppb



#21 o-xylene #2

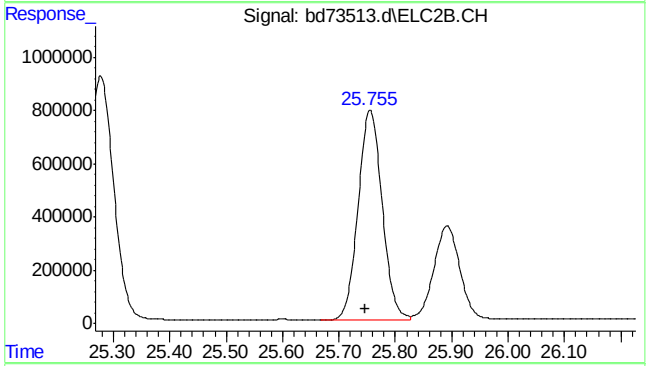
R.T.: 24.036 min
Delta R.T.: 0.008 min
Response: 20850337
Conc: 47.96 ppb

SGS ACCUTEST MC45799



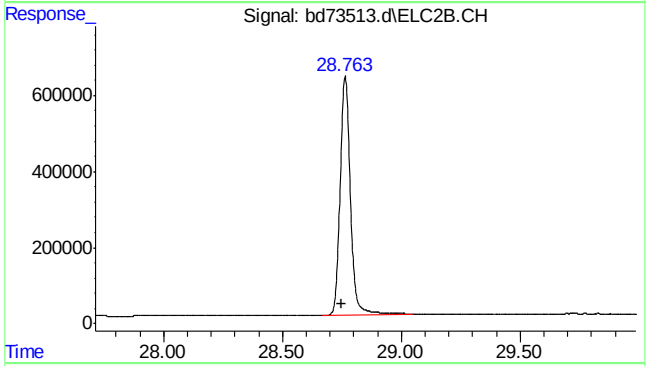
#22 1,3,5-trimethylbenzene #2

R.T.: 25.278 min
Delta R.T.: 0.010 min
Response: 29925224
Conc: 44.60 ppb



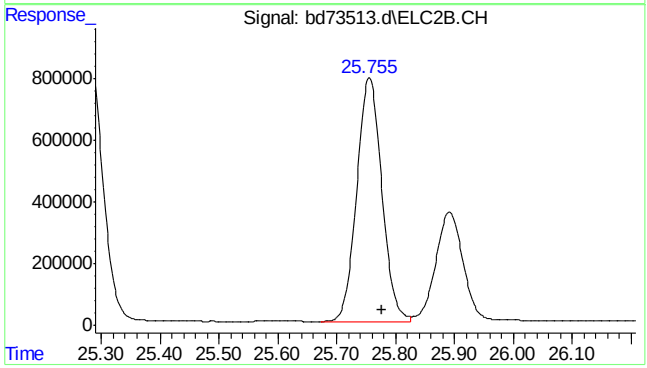
#23 1,2,4-trimethylbenzene #2

R.T.: 25.756 min
Delta R.T.: 0.010 min
Response: 23356709
Conc: 47.48 ppb



#24 naphthalene #2

R.T.: 28.764 min
Delta R.T.: 0.014 min
Response: 19015332
Conc: 52.70 ppb



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 23370727
Conc: 47.54 ppb m

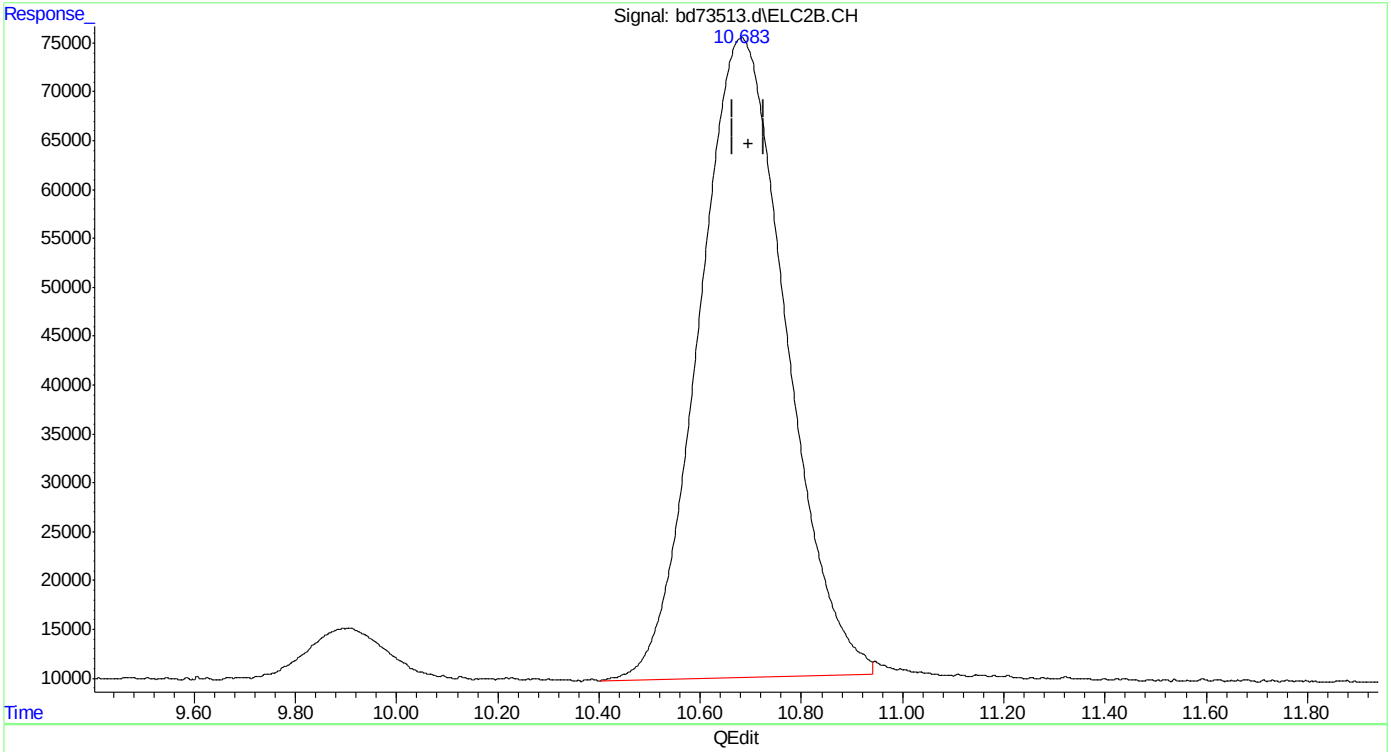
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 08:53:46
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:28:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.683min 50.790 ppb

response 7827092

(+) = Expected Retention Time

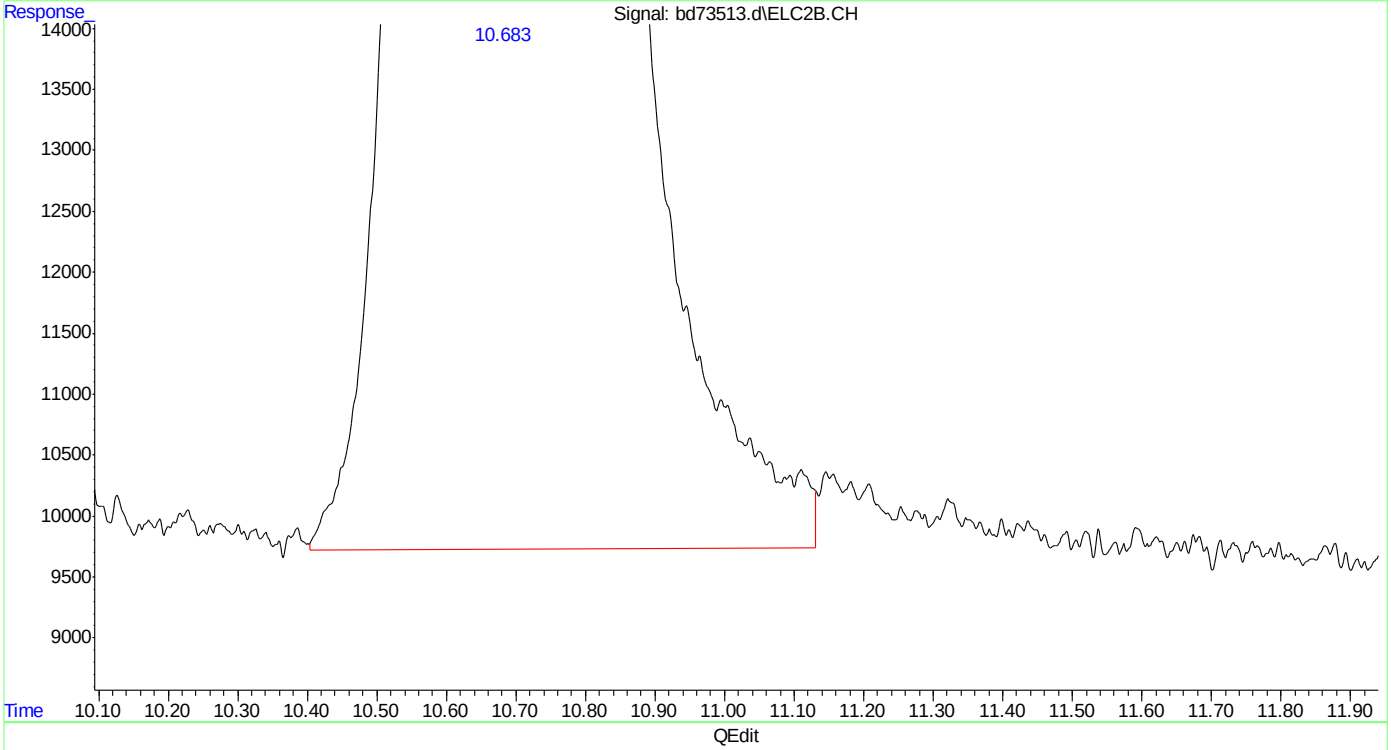
bd160509vph.M Mon May 09 09:28:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 08:53:46
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:28:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
10.683min 52.310 ppb m
response 8061441

(+) = Expected Retention Time
bd160509vph.M Mon May 09 09:28:50 2016

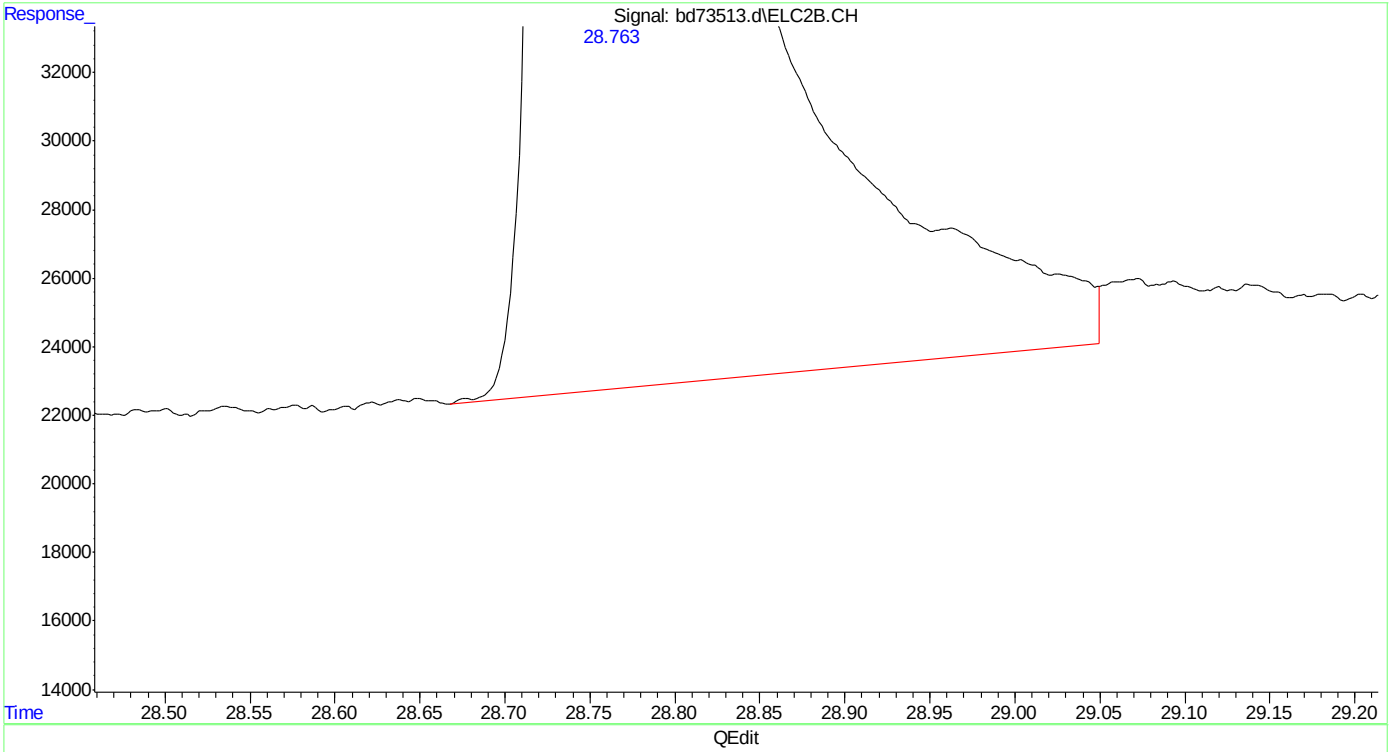
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 08:53:46
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:28:08 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

28.764min 52.705 ppb

response 19015332

(+) = Expected Retention Time

bd160509vph.M Mon May 09 09:29:02 2016

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 08:53:46
Operator  : tonyf
Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26222,gbd3633,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:30:06 2016
Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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
 1) s   fluorobenzene              16.425f      39698814   58.906 ppb
Spiked Amount     50.000                      Recovery   =  117.81%
 2) s   2,3,4-trifluorotoluene     21.243       30870511   58.985 ppb
Spiked Amount     50.000                      Recovery   =  117.97%

 Target Compounds
 3) h   rt20/25                    22.830      569721245  753.346 ppb  m
 ---------------------------------------------------------------------------

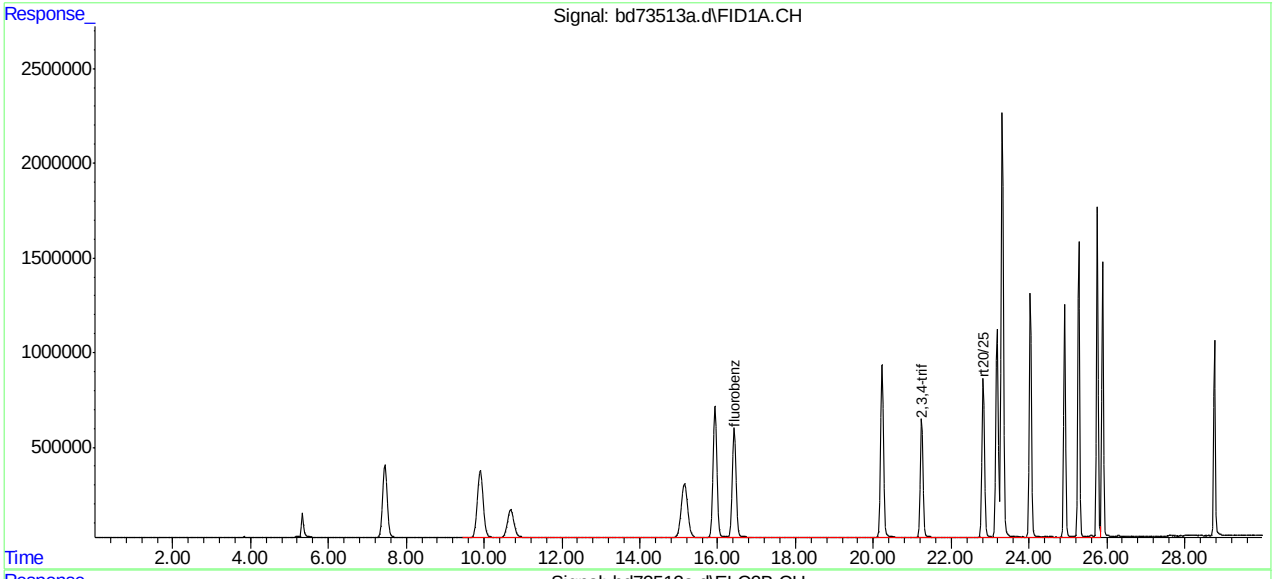
(f)=RT Delta > 1/2 Window                                (m)=manual int.
```

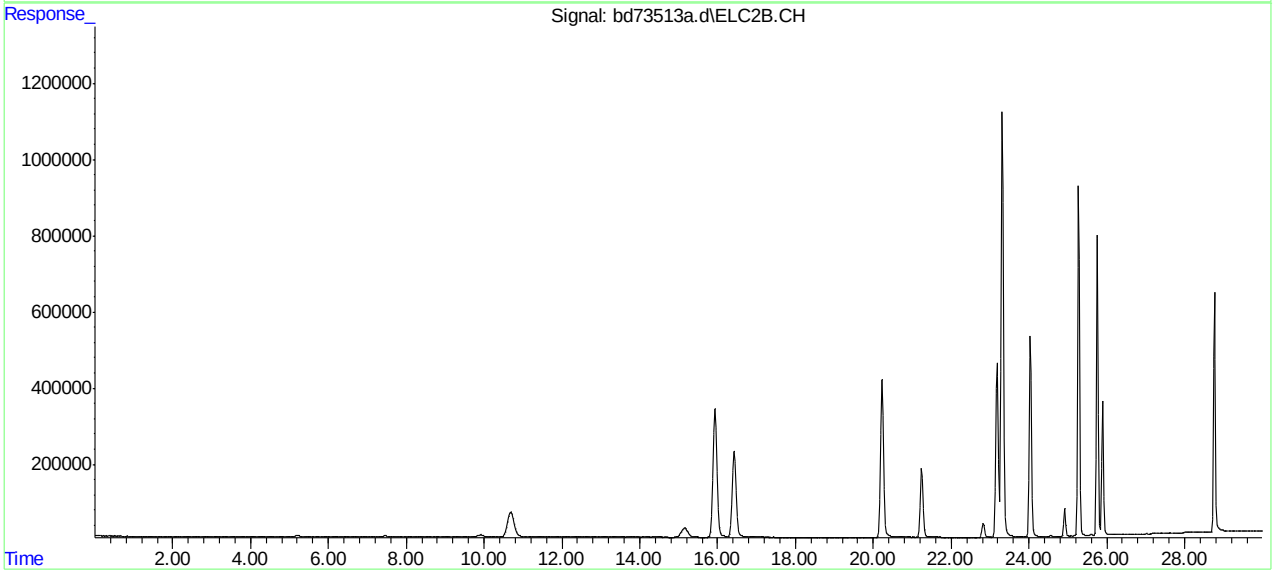
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73513a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 08:53:46
Operator  : tonyf
Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26222,gbd3633,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

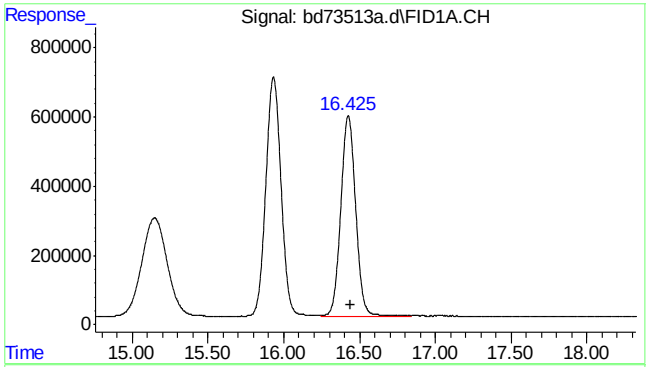
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 09:30:06 2016
Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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



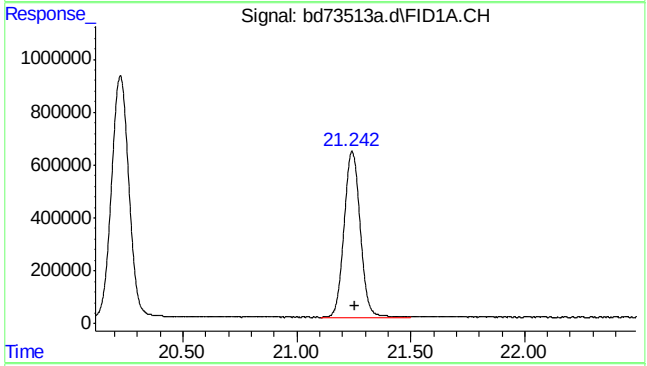


SGS ACCUTEST MC45799



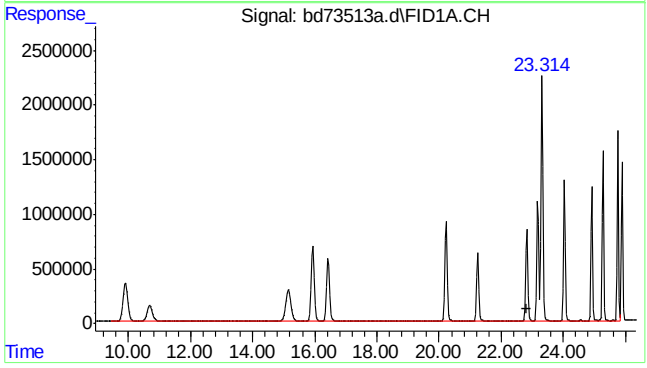
#1 fluorobenzene

```
      R.T.:   16.425 min
Delta R.T.:   -0.018 min
  Response:  39698814
      Conc:  58.91 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.243 min
Delta R.T.:   -0.011 min
  Response:  30870511
      Conc:  58.99 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 569721245
      Conc: 753.35 ppb m
```


SGS ACCUTEST MC45799

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
05/10/16 11:26

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:44:55
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,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: May 09 15:23:43 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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	16.427	34947113	51.362 ppb	
Spiked Amount 50.000		Recovery	= 102.72%	
6) s 2,3,4-trifluorotoluene	21.242	26798512	51.436 ppb	
Spiked Amount 50.000		Recovery	= 102.87%	
16) s fluorobenzene #2	16.427	14322925	42.219 ppb	
Spiked Amount 50.000		Recovery	= 84.44%	
18) s 2,3,4-trifluorotoluen...	21.242	8173440	41.520 ppb	
Spiked Amount 50.000		Recovery	= 83.04%	
Target Compounds				
1) h rt5.5-7	7.470	27452217	44.511 ppb	m
2) h rt7/10	9.920	32241821	52.277 ppb	m
3) h rt10/13	15.200	29466231	47.777 ppb	m
8) h rt20/25	22.840	33106749	41.372 ppb	m
10) h decane	24.930	31863724	39.819 ppb	
11) h butylcyclohexane	25.908	36704412	45.868 ppb	
14) mtbe #2	10.683	7460371	48.410 ppb	m
15) benzene #2	15.934	21847727	45.177 ppb	
17) toluene #2	20.225	20540745	45.372 ppb	
19) ethylbenzene #2	23.177	18169522	43.781 ppb	
20) m,p-xylene #2	23.313	43837821	87.950 ppb	
21) o-xylene #2	24.035	18556004	42.679 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	26646705	39.710 ppb	
23) 1,2,4-trimethylbenzen...	25.754	20879256	42.448 ppb	
24) naphthalene #2	28.760	18861908	52.284 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	20842877	42.394 ppb	m

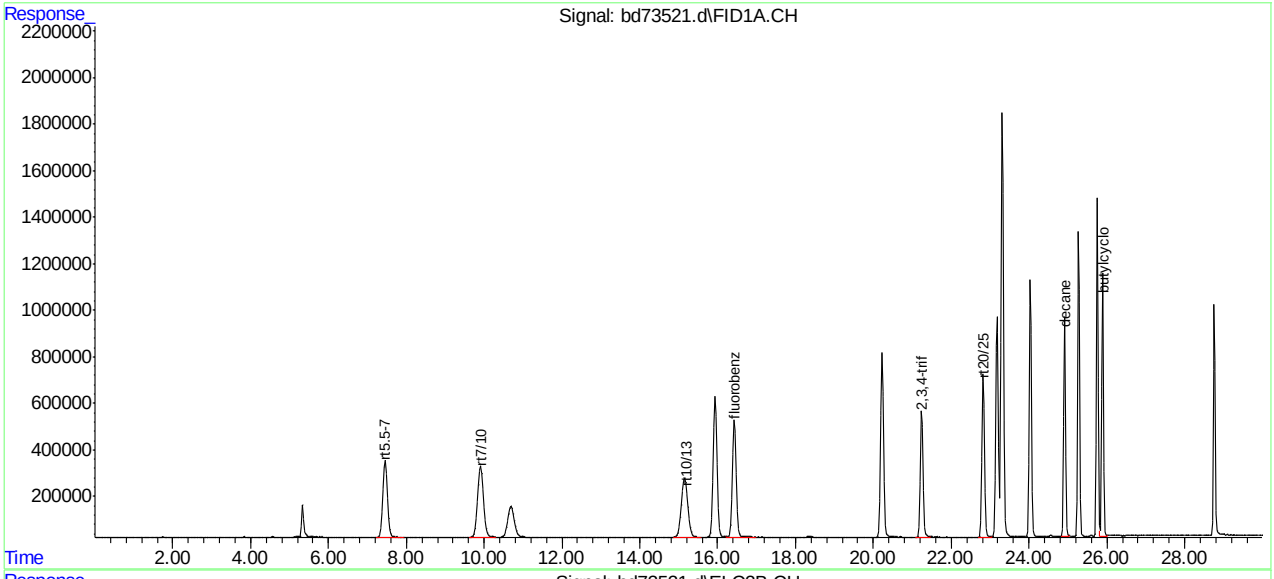
(f)=RT Delta > 1/2 Window (m)=manual int.

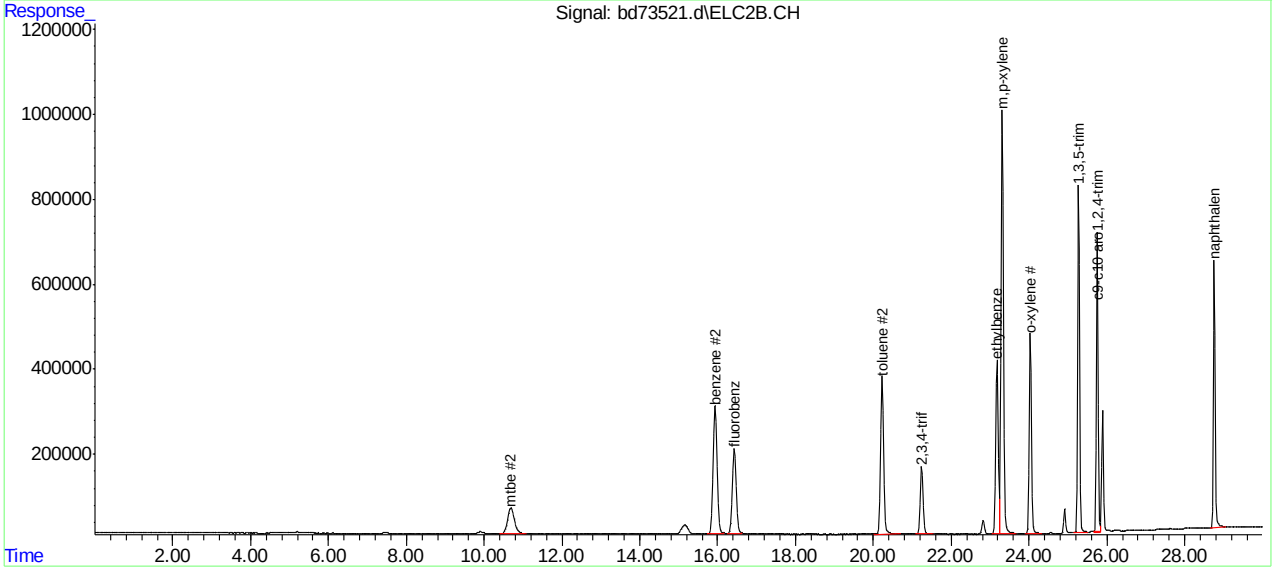
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:44:55
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

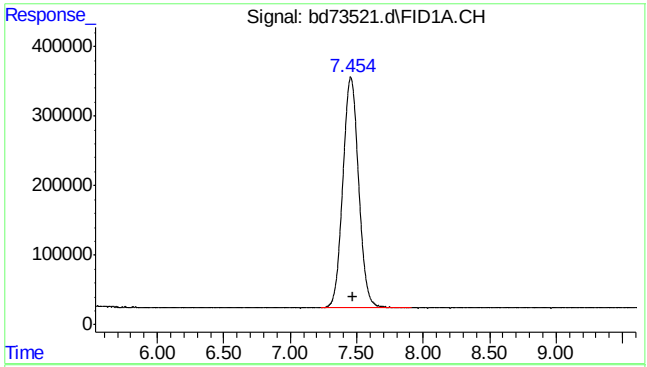
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: May 09 15:23:43 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



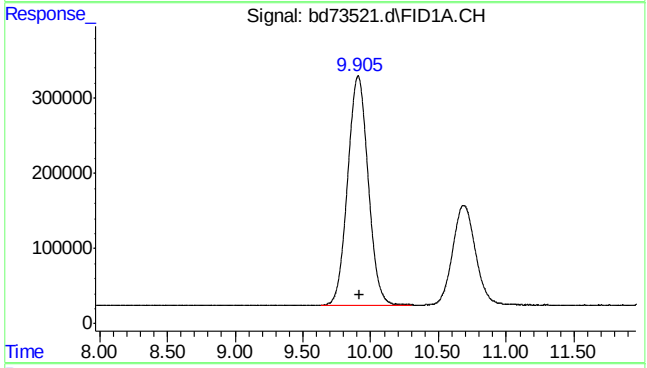


SGS ACCUTEST MC45799



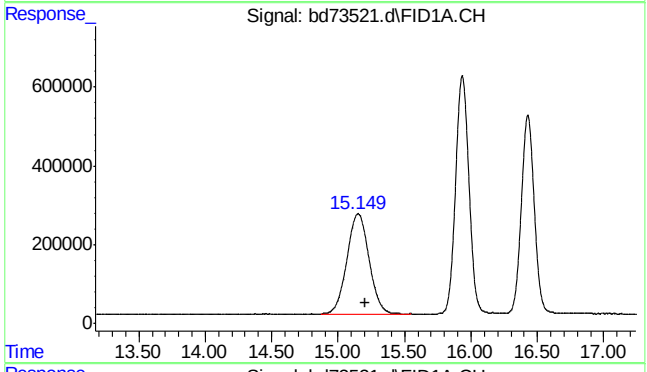
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27452217
Conc: 44.51 ppb m



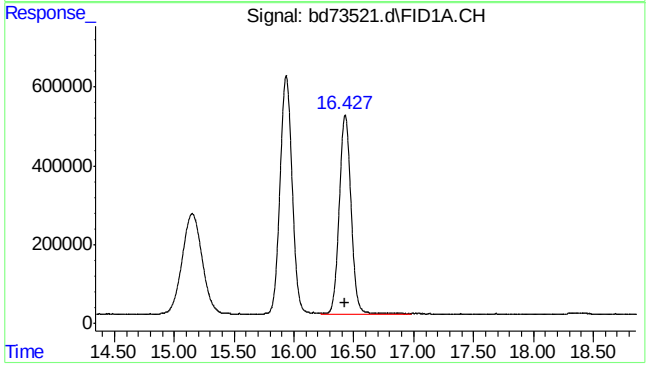
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 32241821
Conc: 52.28 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 29466231
Conc: 47.78 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 34947113
Conc: 51.36 ppb

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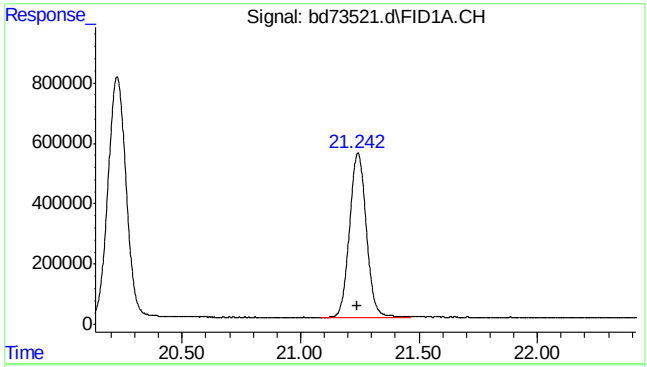
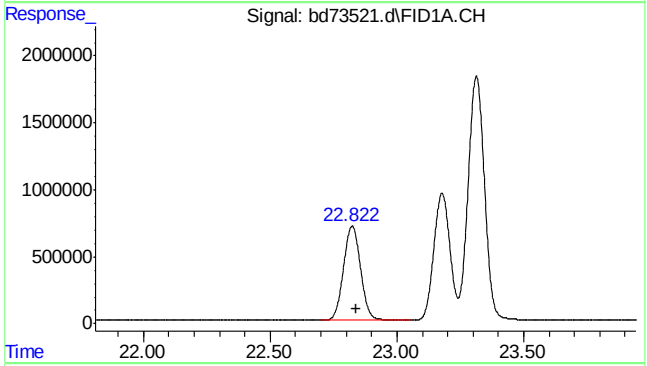


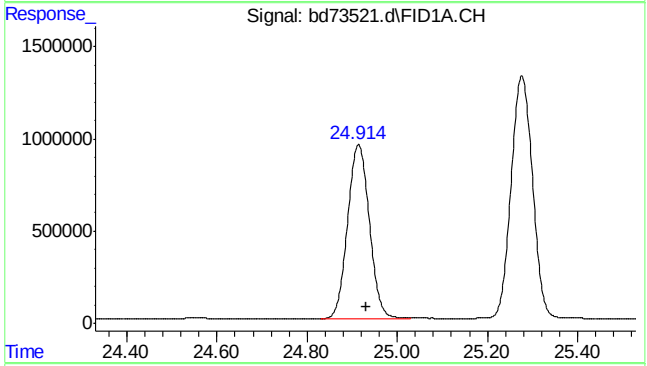
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26798512
Conc: 51.44 ppb



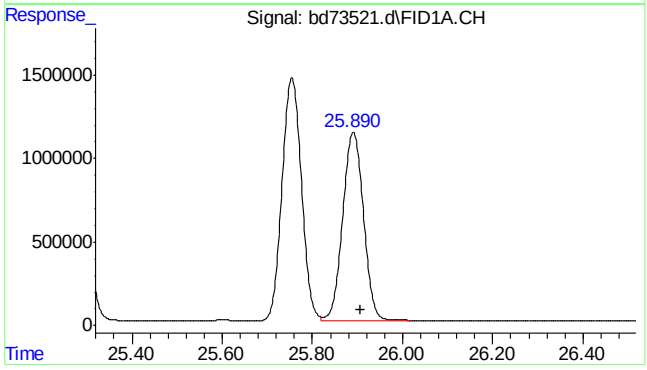
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 33106749
Conc: 41.37 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 31863724
Conc: 39.82 ppb



#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 36704412
Conc: 45.87 ppb

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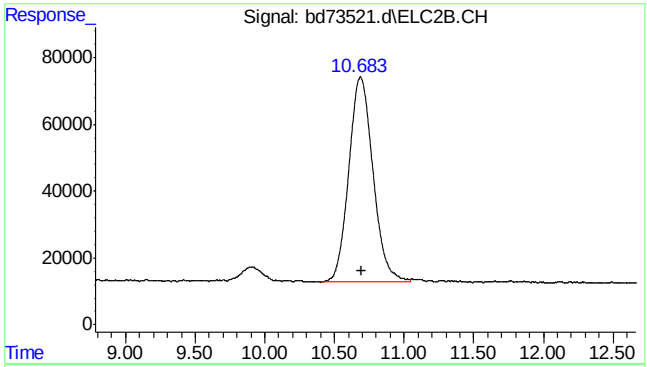
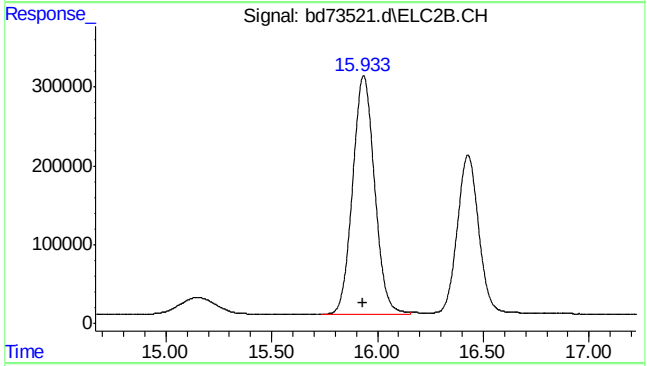


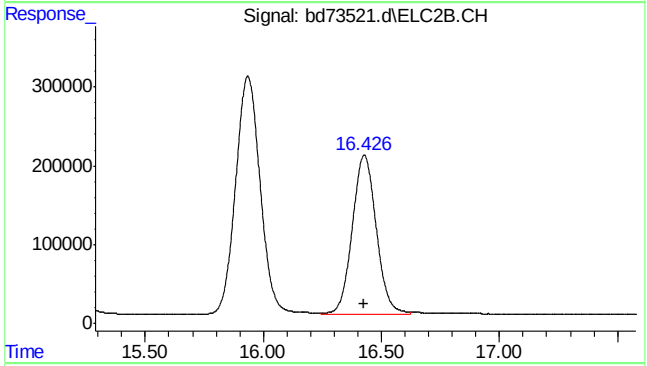
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 7460371
Conc: 48.41 ppb m



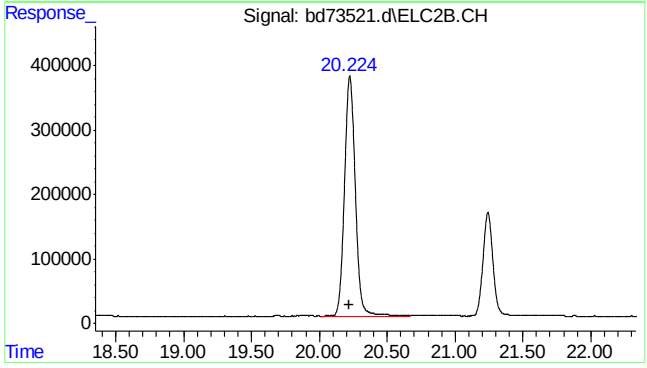
#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 21847727
Conc: 45.18 ppb



#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14322925
Conc: 42.22 ppb



#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 20540745
Conc: 45.37 ppb

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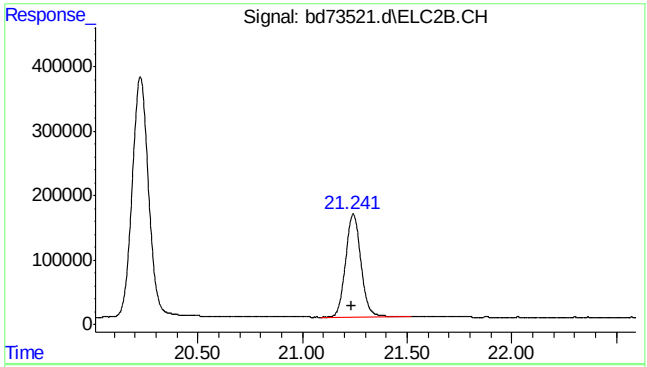
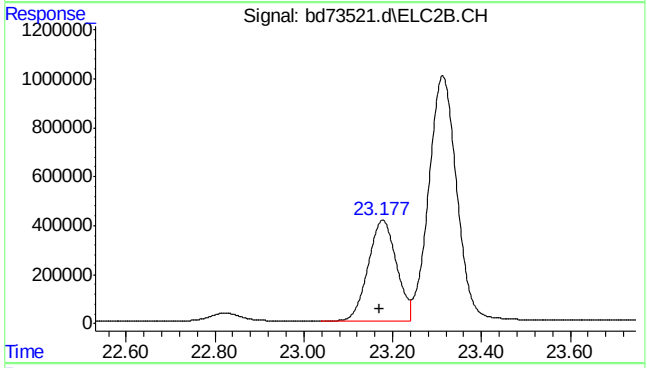


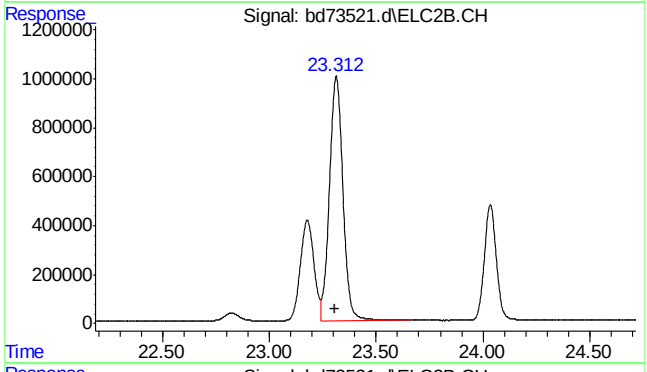
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8173440
Conc: 41.52 ppb



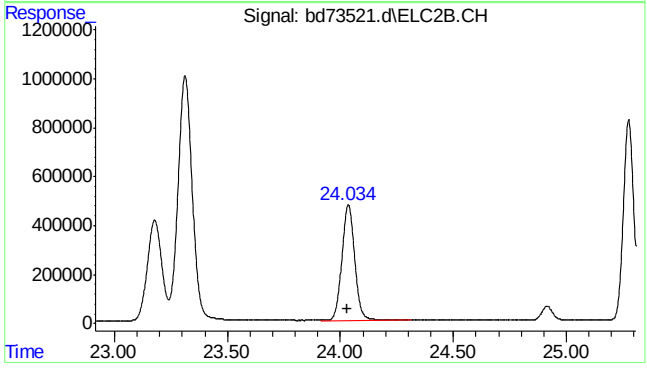
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18169522
Conc: 43.78 ppb



#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 43837821
Conc: 87.95 ppb



#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 18556004
Conc: 42.68 ppb

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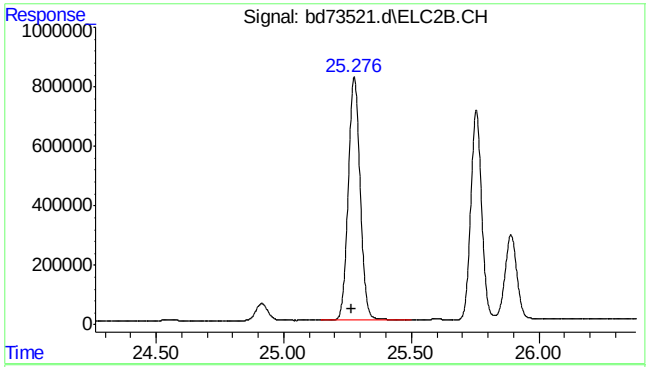
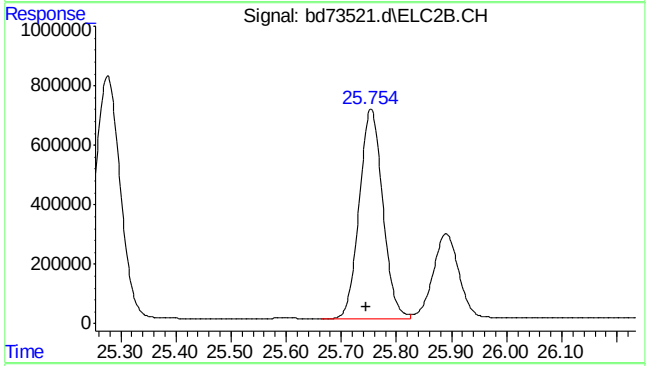


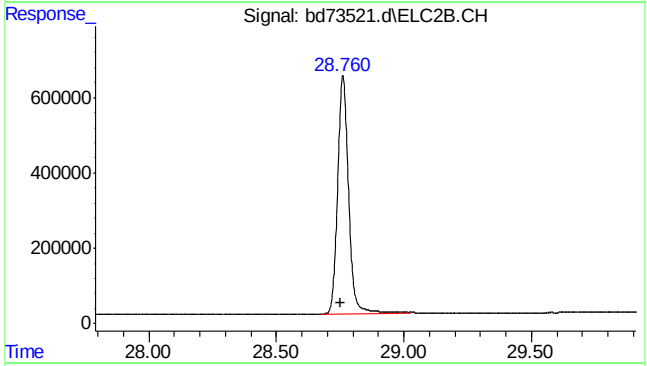
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 26646705
Conc: 39.71 ppb



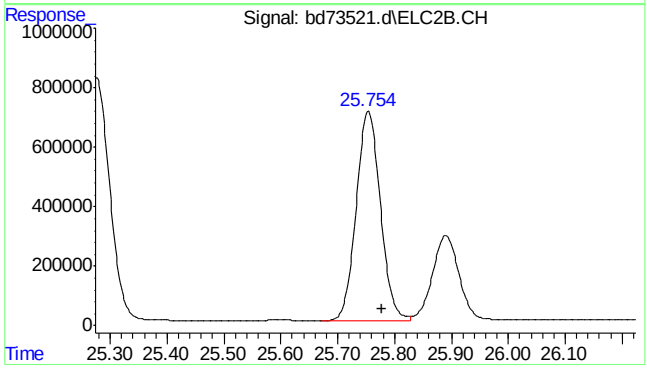
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 20879256
Conc: 42.45 ppb



#24 naphthalene #2

R.T.: 28.760 min
Delta R.T.: 0.010 min
Response: 18861908
Conc: 52.28 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 20842877
Conc: 42.39 ppb m

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:44:55
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,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: May 09 15:22:44 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.684min 47.403 ppb

response 7305149

(+) = Expected Retention Time

bd160509vph.M Mon May 09 15:23:18 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:44:55
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26221,gbd3632,,,,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: May 09 15:22:44 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title  : vph  nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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

10.683min 48.410 ppb m

response 7460371

(+) = Expected Retention Time

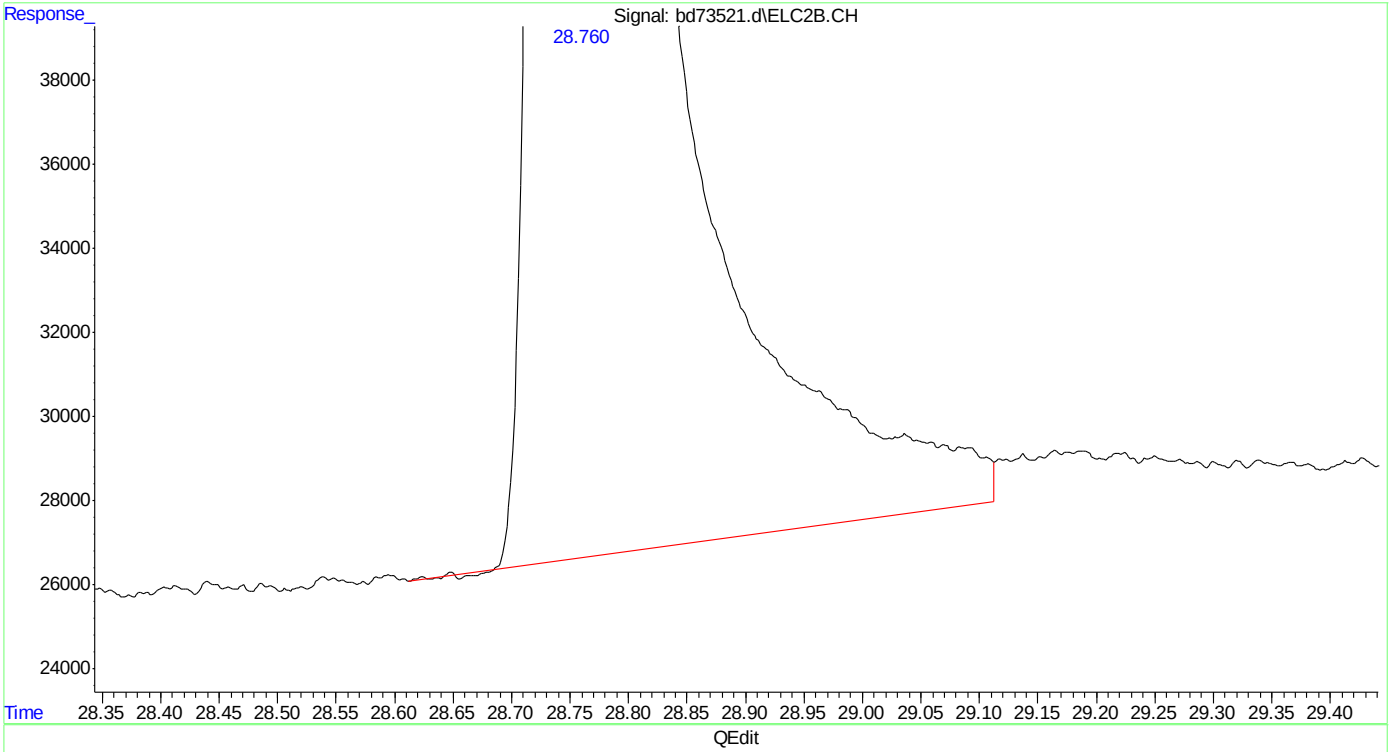
bd160509vph.M Mon May 09 15:23:24 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:44:55
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,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: May 09 15:22:44 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.761min 52.560 ppb
response 18962570

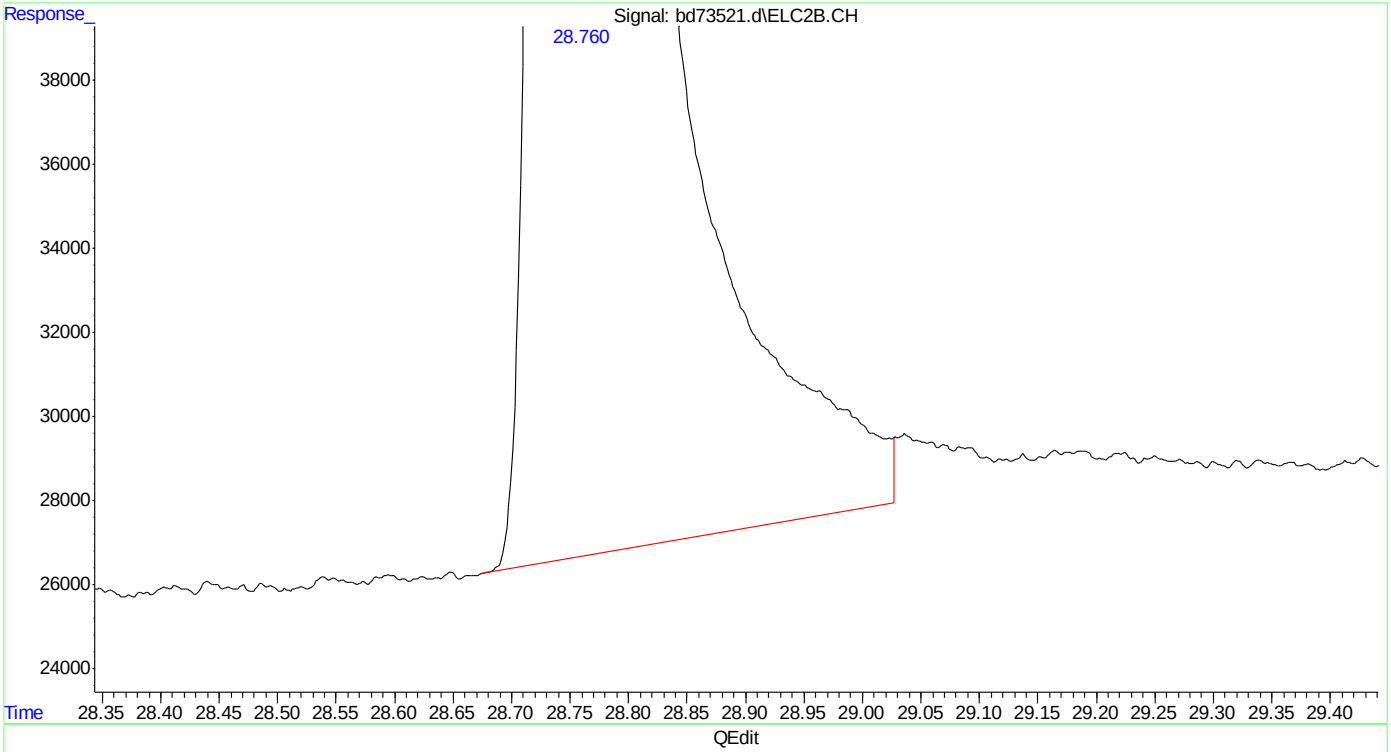
(+) = Expected Retention Time
bd160509vph.M Mon May 09 15:23:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 09-May-16, 14:44:55
Operator : tonyf
Sample : cc3572-50
Misc : gc26221,gbd3632,,,,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: May 09 15:22:44 2016
Quant Method : C:\msdchem\1\methods\bd160509vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial 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
28.760min 52.284 ppb m
response 18861908

(+) = Expected Retention Time
bd160509vph.M Mon May 09 15:23:38 2016

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Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:44:55
Operator  : tonyf
Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26222,gbd3633,,,,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: May 09 15:22:02 2016
Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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
 1) s   fluorobenzene              16.427f      34947113   51.855 ppb
Spiked Amount     50.000                      Recovery   =  103.71%
 2) s   2,3,4-trifluorotoluene     21.242       26798512   51.205 ppb
Spiked Amount     50.000                      Recovery   =  102.41%

 Target Compounds
 3) h   rt20/25                    22.830      490481207  648.566 ppb  m
 ---------------------------------------------------------------------------

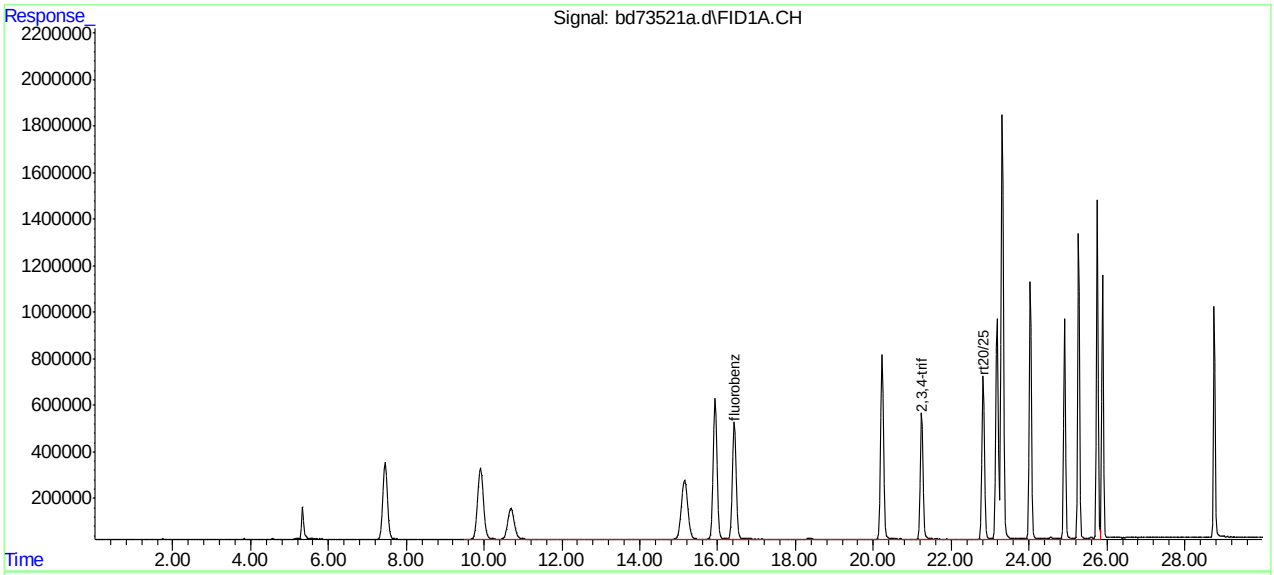
(f)=RT Delta > 1/2 Window                                (m)=manual int.
```

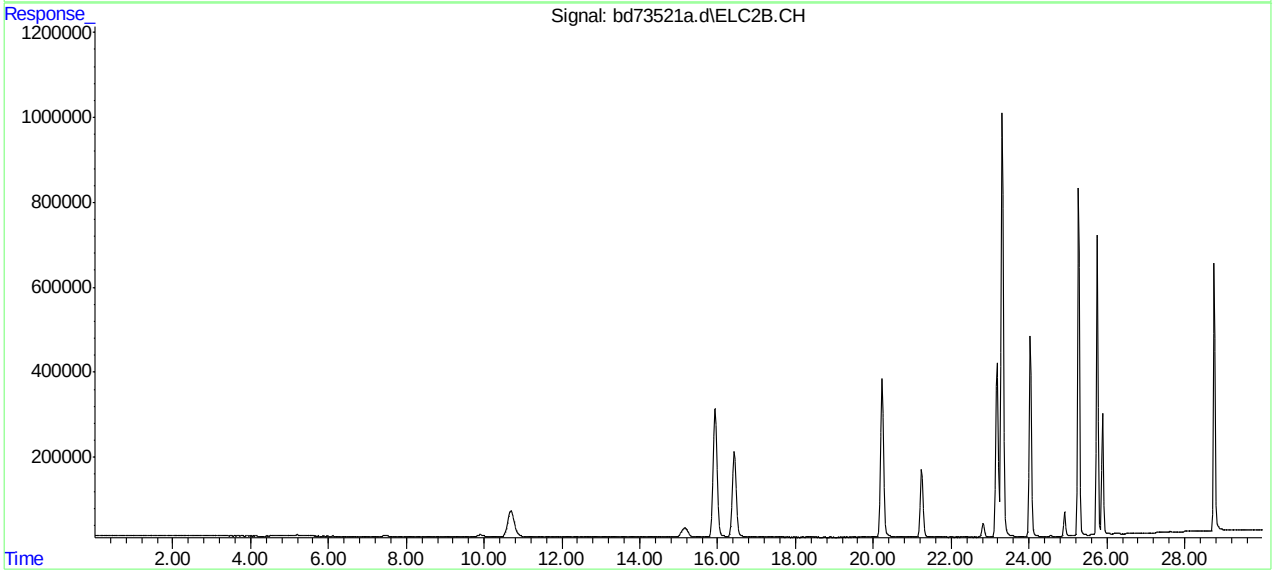
Quantitation Report (QT Reviewed)

```
Data Path : C:\msdchem\1\data\BD160509\
Data File : bd73521a.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 09-May-16, 14:44:55
Operator  : tonyf
Sample    : cc3577-650 (Sig #1); cc3572-50 (Sig #2)
Misc      : gc26222,gbd3633,,,,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: May 09 15:22:02 2016
Quant Method : C:\msdchem\1\methods\bd160509v8015gro.M
Quant Title  : v8015gro
QLast Update : Mon Feb 22 15:58:57 2016
Response via : Initial 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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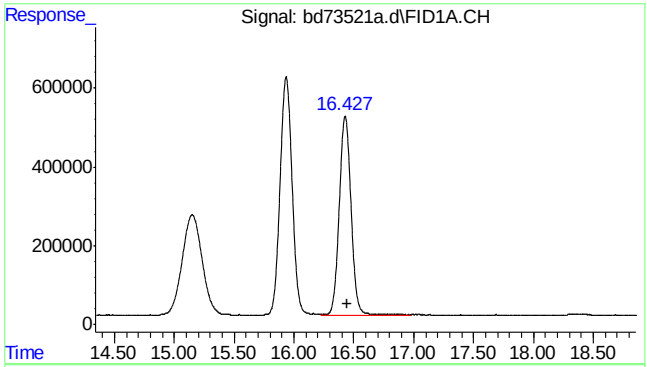
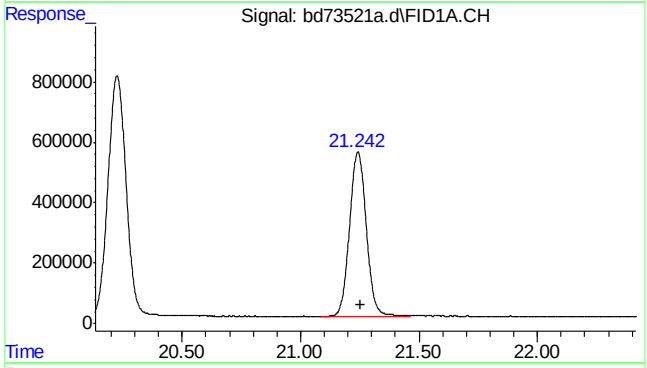


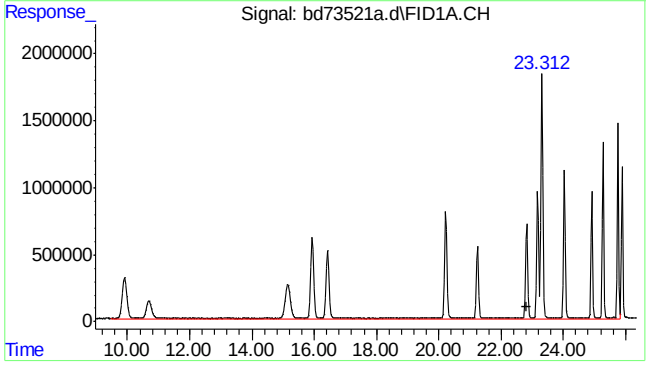
#1 fluorobenzene

```
      R.T.:   16.427 min
Delta R.T.:   -0.016 min
  Response:  34947113
      Conc:  51.86 ppb
```



#2 2,3,4-trifluorotoluene

```
      R.T.:   21.242 min
Delta R.T.:   -0.012 min
  Response:  26798512
      Conc:  51.20 ppb
```



#3 rt20/25

```
      R.T.:   22.830 min
Delta R.T.:    0.000 min
  Response: 490481207
      Conc: 648.57 ppb m
```


SGS ACCUTEST MC45799

ACCUTEST LABORATORIES

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 2/19/16 Analyst Signature: aef

Standards Data

Lot #	Description	Conc
Vmaph Mix	qc 25978 gbd	~~3559~~ 3572
~~Mix~~		
Vmaph Soil	qc 25991 gbd	3573
Btxm Mix	qc 25992 gbd	3574
qv16299	2ND Source std 50 ug/ml	3/3/16

Standards Data

Lot #	Description	Conc
qv16289	cc/bsp 250 ug/ml	3/5/16
qv16290	Sum	
qv16296	std 50/50 ug/ml	3/3/16
qv16297	5.0/5.0	
qv16298	1.0/1.0	

Column: mtx 502.2
Method: BD VPH1
GC Seq. File: BD 160219.5
Method Files:
BD 160219 in-stea
~~qc~~ BD160219VPH cc 3572-50
AB Seq. File: 1-1 2-3 1-1 2-11

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 12-12

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
bd 73,680	ic 3572-1000	N/A	qc 25978	Vmaph	1	W	100 ml qv16	296/5 ml FJ	N/A	N/A	50/50 ug/ml std
81	-500				2		50 ul				
82	-250				3		25 ul				
83	-100				4		10 ul				
84	icc 3572-50				5		5 ul				
85	ic 3572-10				6		10 ul qv16	297 / 5 ml FJ			5.0/5.0 std ug/ml
86	-5				7		5 ul				
87	-2				8		10 ul qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ul				
89	icv 3572-50				10		5 ul qv	16299		OK	2nd source 50 ug/ml std
90 *	cc 3572-50	N/A			1	W	1 ml qv	16289			curve ck
91	mb				2	W	1 ml qv	16290		N/A	Naphthalene
92	bsp	not needed 2/22/16			3		1 ml qv	16289			linear regression
93	bsl				4						inverse conc.
94	clean				2	W	5 ml				
95	A mb AQ				3	W					
96	E mb soil		btxm	VPH	4	S					
97	E 0.25 soil		mc17863-25		5						
98	E 0.50 soil		mc17863-55	mc11152-55	6						
99	A 0.50 AQ		mc17863-55	mc11152-25	7	W					
73,700	A 1.0 AQ		mc17865-85	mc11152-55	8						
01	E 1.0 soil		mc17863-85	mc11152-85	9	S	mc11151-85				
02	2.0 AQ			mc11152-85	10	W					
03	5.0 soil			mc11151-11	11	S					
04	cc 3572-50				12	W	1 ml qv16289				
*	do not	Report	sample	Not	purged	Air	in	lines	low		2/19/16
	see	bsp/bsl									

GC001-06 Date: 1/02/15 Dilution Solvent:_____ Lot Number:_____ pH Paper Lot:_____ Review:_____

MTX = Matrix: Designate W for water, S for 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. ~~AQ~~ * V8021btxm ~~AQ~~ Soil 2/22/16 qc 25993 gbd 3576 E Filts

Blank V8015 std qc gbd 3577
Blank V8015 std ma qc gbd 3578

7

SGS ACCUTEST MC45799

original curve 2/19/16 by

Response Factor Report GCBD

Method : C:\msdchem\1\met...bd160219master.M (ChemStation Integrator)
Title : vph - master
Last Update : Fri Feb 19 13:31:10 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680.d 2 =bd72681.d 4 =bd72683.d 3 =bd72682.d
5 =bd72684.d 9 =bd72688.d 6 =bd72685.d 8 =bd72687.d
7 =bd72686.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	RSD
1) rt5.5-7	5.718	5.014	6.498	5.963	6.029	5.787	5.478	5.906	5.447	5.760 E5	7.30
2) rt7/10	6.647	6.047	7.432	6.929	6.962	7.021	6.152	7.120	6.169	6.720 E5	7.34
3) mtbe	2.674	2.989	3.380	3.364	3.092	2.704	2.869	2.869	2.734	2.964 E5	9.03
4) rt10/13	3.269	4.053	6.762	5.601	6.677	7.215	7.561	7.720	6.866	6.192 E5	25.37
5) benzene	8.815	7.384	8.777	7.659	8.597	7.477	7.527	7.542	7.173	7.883 E5	8.26
6) fluorobenzene	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
7) rt13/16										0.000 -	1.00
8) toluene	8.615	7.875	8.442	7.428	8.551	7.612	7.479	7.419	7.341	7.862 E5	6.74
9) 2,3,4-trifluorotoluene	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
10) rt16/20										0.000 -	1.00
11) rt20/25	0.696	0.693	0.743	0.632	0.773	1.150	0.805	1.001	0.846	0.816 E6	20.19
12) rt25/29										0.000 -	1.00
13) ethylbenzene	8.533	8.304	8.155	7.600	8.471	7.931	7.649	7.985	7.452	8.009 E5	4.86
14) m,p-xylene	7.197	8.375	7.640	8.658	8.081	8.615	8.330	8.401	8.127	8.158 E5	

7.6.1

7

SGS ACCUTEST MC45799

5.80
15) o-xylene
8.138 8.186 8.215 8.022 8.687 9.200 8.135 8.484 7.917 8.331 E5
4.81
16) decane
0.406 0.657 0.683 0.642 0.759 1.632 0.849 1.250 0.974 0.873 E6
42.44
17) 1,3,5-trimethylbenzene
8.561 9.214 8.415 9.149 9.127 9.460 9.967 9.110 9.823 9.203 E5
5.55
18) 1,2,4-trimethylbenzene
7.932 8.932 8.133 9.100 8.864 9.382 8.741 9.059 8.519 8.740 E5
5.38
19) butylcyclohexane
0.624 0.730 0.737 0.751 0.825 1.408 0.926 1.208 0.994 0.911 E6
28.01
20) naphthalene
4.261 4.719 5.335 4.986 5.458 2.689 4.112 3.168 3.311 4.227 E5
23.51
21) 2,5-dibromotoluene
0.000 -
1.00

Signal #2

23) mtbe #2
1.368 1.460 1.667 1.610 1.593 1.466 1.570 1.600 1.536 1.541 E5
6.07
24) benzene #2
4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570 4.836 E5
3.90
25) fluorobenzene #2
3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680 3.393 E5
9.43
26) toluene #2
4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115 4.527 E5
4.86
27) 2,3,4-trifluorotoluene #2
1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188 1.969 E5
6.99
28) ethylbenzene #2
4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838 4.150 E5
5.12
29) m,p-xylene #2
5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695 4.984 E5
3.61
30) o-xylene #2
4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075 4.348 E5
5.78
31) 1,3,5-trimethylbenzene #2
6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720 6.710 E5
3.14
32) 1,2,4-trimethylbenzene #2
5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514 4.919 E5
5.66
33) naphthalene #2
3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469 3.230 E5

2/19/16

7.6.1

7

SGS ACCUTEST MC45799

```
24.83
 34)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 35)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          bd160219master.M        Fri Feb 19 13:54:22 2016
```

not deleted 1.0ppb from stds ranges only
naphthalene using linear regression, inverse concentration

2/19/16
aj

VPH curve

in use

2/19/16

Response Factor Report GCBD

Method : C:\msdchem\1\methods\bd160219vph.M (ChemStation Integrator)
Title : vph - master
Last Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration

Calibration Files
1 =bd72680.d 2 =bd72681.d 4 =bd72683.d 3 =bd72682.d
5 =bd72684.d 9 =bd72688.d 6 =bd72685.d 8 =bd72687.d
7 =bd72686.d =

Compound	1	2	4	3	5	9	6	8	7	Avg	% RSD
1) rt5.5-7											
	6.167				6.167					6.167 E5	0.00
2) rt7/10											
	6.167				6.167					6.167 E5	0.00
3) rt10/13											
	6.167				6.167					6.167 E5	0.00
4) fluorobenzene											
	6.573	5.605	7.008	6.100	6.815	6.909	7.790	7.060	7.376	6.804 E5	9.59
5) rt13/16											
										0.000 -	1.00
6) 2,3,4-trifluorotoluene											
	5.065	4.479	5.493	4.501	5.394	5.207	5.892	5.076	5.783	5.210 E5	9.56
7) rt16/20											
										0.000 -	1.00
8) rt20/25											
	8.002				8.002					8.002 E5	0.00
9) rt25/29											
										0.000 -	1.00
10) decane											
	8.002				8.002					8.002 E5	0.00
11) butylcyclohexane											
	8.002				8.002					8.002 E5	0.00
12) 2,5-dibromotoluene											
										0.000 -	1.00
Signal #2											
14) mtbe #2											
	1.368	1.460	1.667	1.610	1.593	1.466	1.570	1.600	1.536	1.541 E5	

7.6.1

7

```
6.07
 15)  benzene #2
            4.861 4.876 5.056 5.081 4.822 4.969 4.569 4.719 4.570   4.836 E5
3.90
 16)  fluorobenzene #2
            3.079 3.091 3.220 3.214 3.077 3.733 3.886 3.554 3.680   3.393 E5
9.43
 17)  toluene #2
            4.626 4.588 4.711 4.756 4.512 4.707 4.237 4.493 4.115   4.527 E5
4.86
 18)  2,3,4-trifluorotoluene #2
            1.932 1.869 1.891 1.909 1.814 2.067 2.170 1.877 2.188   1.969 E5
6.99
 19)  ethylbenzene #2
            4.459 4.298 4.247 4.336 4.065 4.136 3.841 4.132 3.838   4.150 E5
5.12
 20)  m,p-xylene #2
            5.131 5.050 5.113 5.152 4.929 5.039 4.682 5.068 4.695   4.984 E5
3.61
 21)  o-xylene #2
            4.551 4.406 4.313 4.400 4.169 4.837 4.014 4.366 4.075   4.348 E5
5.78
 22)  1,3,5-trimethylbenzene #2
            6.721 6.794 6.567 6.734 6.343 7.129 6.606 6.779 6.720   6.710 E5
3.14
 23)  1,2,4-trimethylbenzene #2
            5.032 5.133 4.940 5.083 4.785 5.310 4.478 4.993 4.514   4.919 E5
5.66
 24)  naphthalene #2
            3.386 3.828 4.165 4.078 3.817 2.045 2.922 2.364 2.469   3.230 E5
24.83
            ----- Linear regression -----  Coefficient =  0.9932
                Response Ratio = -203870.32475 + 364658.28656 *A

 25)  c9-c10 arom as 1,2,4-tmb
            5.032 5.131 4.938 5.082 4.785 5.305 4.490 4.970 4.516   4.917 E5
5.57
 26)  2,5-dibromotoluene #2
                                                                    0.000   -
1.00
-----------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

        bd160219vph.M        Fri Feb 19 13:41:18 2016
```

2/19/16
ag

7.6.1

7

SGS ACCUTEST MC45799

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571776990	250696304	64982591	149066038	30143416	578714	5478380	1181221	2723524
rt7/10	664691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460558	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140036220	33383300	721543	7560791	1543987	3432971
benzene	881456634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423859	185707723	42756685	761168	7478514	1483744	3670681
rt20/25	696465027	346681859	74314298	156091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434854	920010	8134654	1696702	3958698
decane	406144732	328410851	68348944	160400652	37965661	1632465	8499226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707488	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623652608	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	426083724	235968786	53350849	124639753	27290467	268939	4112144	633669	1855353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	2002338	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	3	30	6	15
RF	521133	503800	689763	616440	655563	667446	639690	691525	616052

	Avg RF	Area 1000	Area 50
	622379	622379185	31118959
% RSD	**10.95**		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	4190698	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	3	30	6	15
RF	575484	693247	721361	674916	785918	1396899	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	866521	866520858	43326043
%RSD	**30.19**		

deleted 1st from ranges 2/19/16 cy

JFH 070804 Analyst/Date:____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

Operator tonyf
Date Acquired #VALUE!
Instrument Name GCBD

	bd72680.d	bd72681.d	bd72683.d	bd72682.d	bd72684.d	bd72688.d	bd72685.d	bd72687.d	bd72686.d
	1000	500	100	250	50	1	10	2	5
rt5.5-7	571775990	250696304	64982591	149066038	30143416	578714	5478380	1181221	2723524
rt7-10	684691568	302369528	74322538	173228736	34807733	702081	6151519	1423940	3084292
mtbe	267375479	149463905	33800413	84104242	15460556	270393	2869302	573857	1367206
rt10/13	326932608	202634743	67623819	140035220	33383300	721543	7560791	1543987	3432971
benzene	881455634	369202764	87774837	191470179	42982873	747683	7526601	1508329	3586407
toluene	861485080	393743577	84423850	185707723	42766685	761168	7478514	1483744	3670681
rt20/25	696455027	346681859	74314298	158091359	38654222	1149887	8045975	2002361	4228618
ethylbenzene	853280690	415193330	81550653	190000309	42355999	793136	7648937	1597064	3725793
m,p-xylene	1439377364	837537821	152799260	432876904	80812232	1723067	16659616	3360397	8126886
o-xylene	813797703	409323205	82145326	200540345	43434654	920010	8134654	1696702	3958696
decane	406144732	328410851	68348944	160400652	37965661	1632465	8489226	2500365	4869338
1,3,5-trimethylbenzene	856076033	460707486	84145233	228714832	45635368	946024	9966676	1822082	4911450
1,2,4-trimethylbenzene	793214434	446599621	81329260	227512016	44319474	938216	8741165	1811882	4259354
butylcyclohexane	623852508	364778065	73745152	187694750	41267880	1408346	9260257	2416889	4968205
naphthalene	428083724	235968786	53350849	124639753	27290467	268939	4112144	633569	1655353

MAVPH pentane, methylpentane,isooctane

Total area	1563400166	755700575	206928947	462329993	98334449	19190690	4149148	9240787
Total mass	3000	1500	300	750	150	30	6	15
RF	521133	503800	689763	616440	655563	639690	691525	616052

	Avg RF	Area 1000	Area 50
	616746	616745844	30837292
% RSD	**11.44**		

*** = 2 x conc

Nonane, butylcyclohexane, decane

Total area	1726452266	1039870775	216408394	506186760	117887763	25795459	6919614	14066162
Total mass	3000	1500	300	750	150	30	6	15
RF	575484	693247	721361	674916	785918	859849	1153269	937744

	Avg RF	Area 1000	Area 50
	800224	800223563	40011178
%RSD	**22.71**		

JFH 070604 Analyst/Date:_____

Edit 2-methylpentane, isooctane, mtbe,bz, tulene, ethylbenzene to 1000.
ZM April 13,2005

2/19/16
ajs

Data File Name	bd72689.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**icv3752-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	32771312	C5 - C8 area	CF	CF		
rt7/10	37519205	106873097	712487	616746	**-15.52**	
rt10/13	36582580					
rt20/25	38978420					
decane	37220553	C9-C12 area				
butylcyclohexane	41168976	117367949	782453	800224	**2.22**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/19/16 aid

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

Data File Name	bd72690.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**mb**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	22840406	C5 - C8 area	CF	CF		
rt7/10	26439866	74923968	499493	616746	**19.01**	
rt10/13	25643696					
rt20/25	26471005					
decane	25392634	C9-C12 area				
butylcyclohexane	29032373	80896011	539307	800224	**32.61**	*

D n/a

OT not pulled

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date:_____ 2/22/16 aff

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

Data File Name	bd72704.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	28273329	C5 - C8 area	CF	CF		
rt7/10	34200726	93802094	625347	616746	**-1.39**	
rt10/13	31328040					
rt20/25	34167846					
decane	32560735	C9-C12 area				
butylcyclohexane	37006510	103735091	691567	800224	**13.58**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 2/22/16 ay

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

7.6.1

7

ACCUTEST LABORATORIES

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 2/19/16 Analyst Signature: [illegible]

Standards Data

Lot #	Description	Conc
Vmaph Mix	qc 25978 gbd	~~3552~~ 3572
*		
Vmaph Soil	25991 gbd	3573
Btxm Mix	25992 gbd	3574
qv16299	2nd Source std	50 ug/ml 3/3/16

Standards Data

Lot #	Description	Conc
qv16289	cc/hex 350 ug/ml	3/3/16
qv16290	Stan	
qv16296	std 50/50 ug/ml	3/3/16
qv16297	5.0/5.0	
qv16298	1.0/1.0	

Column: mtx 562-2
Method: BD VPH1
GC Seq. File: BD 160219.S
Method Files:
BD 160219 instrument
BD160219VPH cc 3572-50
AS Seq. File: 1-1 2-3 1-1 2-11

Date of ICAL: 2-19-16 ICAL Verified: Seq. Verification: 12-12

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
bd 73,680	ic ~~3752~~ 3572-1000	N/A	qc 25978	Vmaph	1	W	100 ul qv16	296/5	5 mL FJ N/A	N/A	50/50 ug/ml std
81	-560				2		50 ul				
82	-250				3		25 ul				
83	-100				4		10 ul				
84	icc ~~3752~~ 3572-50				5		5 ul				
85	ic ~~3752~~ 3572-10				6		10 ul qv16	297	5 mL FJ		5.0/5.0 std ug/ml
86	-5				7		5 ul				
87	-2				8		10 ul qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ul				
89	icv ~~3752~~ 3572-50				10		5 ul qv	16299		OK	2nd Source 50 ug/ml std
90 *	cc 3572-50	N/A			1	W	1 ul qv	16289			column ok
91	mb				2	W	1 ul qv	16290		N/A	Naphthalene
92	bsp	not needed 2/22/16			3		1 ul qv	16289			linear regression
93	bsb				4						inverse curve.
94	clean				2	W	5 ml				
95	mb AQ				3	W					
96	mb Soil		btxm	VPH	4	S					
97	0.25 Soil		mc17863-25J		5						
98	0.50 Soil		mc17863-55J	mc11152-55	6						
99	0.50 AQ		mc17863-55J	mc11152-25J	7	W					
73,710	1.0 AQ		mc17865-85J	mc11152-55J	8						
01	1.0 Soil		mc17863-85J	mc11152-85J	9	S	mc11152-85J				
02	2.0 AQ			mc11152-85J	10	W					
03	5.0 Soil			mc11151-11J	11	S					
04	cc 3572-50				12	W	1 ul qv16289				
*	do not	Report	samples	not	primed	air	in	lines	low		2/19/16
	see	bsp/bsb									

GC001-06 Date: 1/02/15 Dilution Solvent: Lot Number: pH Paper Lot: 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.

** V8021 btxm ~~AQ~~ Soil 2/22/16 qc 25993 gbd 3576 E Files

B file V8015 gto qc 25994 gbd 3577 B files cc 3577-650

O file V8015 gto ME qc gbd 3578

7.6.2 7

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5-9-16

Analyst Signature: [illegible] / DJF

Column: mtx 502.3

Standards Data

Test	Workgroup	Batch
Vmaiph Aeo	qc 26221	gbd 3632
VBOISgro Soil	qc 26222	gbd 3633 A filter

Standards Data

Lot #	Description	Expiration
qv16369	cc/bsp 250ug/ml	5/28/16
qv16370	Sem ↓	↓
qv16379	cc/bsp ↓	6/4/16

Method: BDVPH1

GC Seq. File: BD160509.S

Method Files:

BD160509VPH cc3572-50

BD160509VBOISgro cc3577-650

AS Seq. File: 1-1, 2-2, 3-4, 4-6, 6-8, 9-10, 11-13

Date of ICAL: 2-9-16 ICAL Verified: _____ Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
bd 73,513	A Cencal 50	N/A	qc26221	Vmaiph	1	W	1ml qv16379	N/A	N/A	
14	A mb	↓	10g	10ml	2	S	1ml qv16370	to 5ml of	1ml/50ml F	review for 5
15	A bsp	↓	↓	↓	3	↓	1ml qv16379	↓	N/A	
16	A bsd	↓	↓	↓	4	↓	↓	↓	↓	
5/9/16 17	mc 45799-2	1	10g wet	10ml	5	W	5ml		<2	
18A	-1	1			6					1,4 dioxane not VPH at 18.317 not integrated
19	-1ms	1			6		+1ml qv16379			
20	-1msd	2			7					
21	A Cencal 50	N/A	qc26222	VPH + gro	8		1ml qv16379		N/A	
22	mc 45763-1	1	4.587g	10ml VBOISgro	9	S	5ml of 1ml/50ml F			
23	-3	1	3.625g		10					
24	-3ms	1			11		+1ml qv16379			
25	-3msd	1			12					
26	Cencal 650	N/A			13	W	1ml qv16379			

DJF 5/10/16

GC001-07 Date: 4/27/16 Dilution Solvent: _____ Lot Number: _____ pH Paper Lot: Hydrion 216315 Exp. 6/15/18

Review: _____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *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, mg/m3 for air.

5

7.6.3

7

Data File Name	bd73513.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	31661307	C5 - C8 area	CF	CF		
rt7/10	37078790	101666335	677776	616746	**-9.90**	
rt10/13	32926237					
rt20/25	39230999					
decane	41304759	C9-C12 area				
butylcyclohexane	46574892	127110650	847404	800224	**-5.90**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/9/16 aef

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

Data File Name	bd73521.d
Operator	tonyf
Date Acquired	#VALUE!
Sample Name	**cc3572-50**
Sample Multiplier	1

Name FID	Target Response		Continuing CF	Initial CF	Percent Difference	Out of Criteria
rt5.5-7	27452217	C5 - C8 area	CF	CF		
rt7/10	32241821	89160269	594402	616746	**3.62**	
rt10/13	29466231					
rt20/25	33106749					
decane	31863724	C9-C12 area				
butylcyclohexane	36704412	101674884	677833	800224	**15.29**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 5/9/16 g

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

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 5-9-16 Analyst Signature: [illegible] / DJF

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
Vmaph Alle	qc 26221	gbd 3632
VE015gro Soil	qc 26222	gbd 3633 A fulles

Standards Data

Lot #	Description	Expiration
qu16369	cc/bsp 250ug/ml	5/28/16
qu16370	3mn ↓	↓
qu16379	cc/bsp ↓	6/4/16

Method: BDVPH1

GC Seq. File: BD160509.S

Method Files:

BD160509VPH cc3572-50

BD160509VE015gro cc3577-650

AS Seq. File: 1-1, 2-2, 3-4, 4-6, 6-8, 9-10, 11-13

Date of ICAL: 2-9-16 ICAL Verified: _____ Seq. Verification: DJF

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
bd 73,513	A Cencel 50	N/a	qc26221	Vmaph	1	W	1ml qu16379	N/A	N/a	
14	A mb	↓	10g	10ml	2	S	1ml qu16370	to 5ml of	1ml/5ml DI	review for J
15	A bsp	↓	↓	↓	3	↓	1ml qu16379	N/A	N/a	
16	A bsd	↓	↓	↓	4	↓	↓	↓	↓	
5/9/16 17	mb 45799-2	1	10g wet	10ml	5	W	5ml		<2	
18A	-1	1			6	↓	↓			1,4 dioxane not VPH AT 18.317 not integrated
19	-1ms	1	↓	↓	6	↓	+1ml qu16379		↓	↓
20	-1msD	2	↓	↓	7	↓	↓		↓	↓
21	A Cencel 50	N/a	qc26222	VPH + gro	8	↓	1ml qu16379		N/a	
22	mc 45783-1	1	4.587g	10ml VE015gro	9	S	5ml of 1ml/50ml DI		↓	
23	-3	1	3.625g	↓	10	↓	↓		↓	
24	-3ms	1	↓	↓	11	↓	+1ml qu16379		↓	
25	-3msD	1	↓	↓	12	↓	↓		↓	
26	Cencel 650	N/A	↓	↓	13	W	1ml qu16379		↓	

DJF 5/10/16

GC001-07 Date: 4/27/16 Dilution Solvent: _____ Lot Number: _____ pH Paper Lot: Hydrion 216315 Exp. 6/15/18

Review: _____

MTX = Matrix: Designate W for water, S for soil, O for oil, A for air. *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, mg/m3 for air.

5

7.6.4

7

ACCUTEST

Methanol Prep Log

Vial #:	Sample ID:	Initial Tare Wt (g)	Total Wt (g)	Sample Wt (g)	Comments:
020116-3:20910	MC45783-1.1	36.76	41.347	4.587 g	10 ml
040714-3:53676	MC45783-3.1	36.94	40.565	3.625 g	↓

Analyst: ee 1/ Date: 5/9/16

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: MC45799
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
OP47446-MB	DE14080.D	1	05/13/16	TA	05/11/16	OP47446	GDE790

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

MC45799-1A, MC45799-2A

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	97%	40-140%
321-60-8	2-Fluorobiphenyl	97%	40-140%
3386-33-2	1-Chlorooctadecane	94%	40-140%
580-13-2	2-Bromonaphthalene	89%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45799
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
OP47446-BS	DE14078.D	1	05/13/16	TA	05/11/16	OP47446	GDE790
OP47446-BSD	DE14079.D	1	05/13/16	TA	05/11/16	OP47446	GDE790

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

MC45799-1A, MC45799-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	842	105	820	103	3	40-140/25
	C9-C18 Aliphatics	300	221	74	229	76	4	40-140/25
	C19-C36 Aliphatics	400	344	86	369	92	7	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	89%	96%	40-140%
321-60-8	2-Fluorobiphenyl	91%	88%	40-140%
3386-33-2	1-Chlorooctadecane	77%	82%	40-140%
580-13-2	2-Bromonaphthalene	86%	85%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47446-BS	2-Methylnaphthalene	37.3	0.18	0.5%	5.0
OP47446-BS	Naphthalene	36.6	0.27	0.7%	5.0
OP47446-BSD	2-Methylnaphthalene	36.9	0.14	0.4%	5.0
OP47446-BSD	Naphthalene	36.5	0.18	0.5%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45799
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]
MC45799-1A	DE14081.D	79	89	45	91
MC45799-2A	DE14082.D	82	86	65	81
OP47446-BS	DE14078.D	89	91	77	86
OP47446-BSD	DE14079.D	96	88	82	85
OP47446-MB	DE14080.D	97	97	94	89

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

GC Surrogate Retention Time Summary

Job Number: MC45799
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE790-CC735	**Injection Date:**	05/13/16
Lab File ID:	DE14077.D	**Injection Time:**	09:43
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.87	6.60	11.23	7.33

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47446-BS	DE14078.D	05/13/16	10:11	9.87	6.60	11.23	7.33
OP47446-BSD	DE14079.D	05/13/16	10:39	9.87	6.60	11.22	7.33
OP47446-MB	DE14080.D	05/13/16	11:07	9.87	6.61	11.23	7.33
MC45799-1A	DE14081.D	05/13/16	11:39	9.87	6.61	11.23	7.33
MC45799-2A	DE14082.D	05/13/16	12:08	9.87	6.61	11.22	7.33
ZZZZZZ	DE14083.D	05/13/16	12:36	9.87	6.61	11.22	7.33
ZZZZZZ	DE14084.D	05/13/16	13:04	9.87	6.61	11.23	7.33
ZZZZZZ	DE14085.D	05/13/16	13:32	9.87	6.61	11.23	7.33
ZZZZZZ	DE14086.D	05/13/16	14:00	9.87	6.61	11.23	7.34
GDE790-ECC735	DE14087.D	05/13/16	14:28	9.88	6.61	11.23	7.34

Surrogate Compounds

S1 = o-Terphenyl
S2 = 2-Fluorobiphenyl
S3 = 1-Chlorooctadecane
S4 = 2-Bromonaphthalene

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

Initial Calibration Summary

Job Number: MC45799
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: MC45799
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: MC45799
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: MC45799
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

8.5.2

8

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GDE790-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14077.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 13 May 2016   9:43 am
Operator  : thomasa
Sample    : cc735-50,gde790
Misc      : op47446,gde790,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	91.455 E3	11.3	86	0.00
3		2-methylnaphthalene	102.482	90.544 E3	11.6	86	0.00
4	s	2-fluorobiphenyl	92.230	82.559 E3	10.5	87	0.00
5		acenaphthylene	100.602	90.437 E3	10.1	87	0.00
6	s	2-bromonaphthalene	62.755	55.777 E3	11.1	86	0.00
7		acenaphthene	103.376	94.566 E3	8.5	88	0.00
8		fluorene	101.567	91.935 E3	9.5	88	0.00
9		phenanthrene	101.763	92.078 E3	9.5	88	0.00
10		anthracene	97.008	88.360 E3	8.9	89	0.00
11	s	o-terphenyl	102.427	92.371 E3	9.8	88	0.00
12		fluoranthene	99.941	91.266 E3	8.7	90	0.00
13		pyrene	101.462	93.799 E3	7.6	92	0.00
14		benzo(a)anthracene	96.675	90.508 E3	6.4	93	0.00
15		chrysene	97.341	90.345 E3	7.2	91	0.00
16		benzo(B)fluoranthene	99.002	100.023 E3	-1.0	100	0.00
17		benzo(k)fluoranthene	94.503	85.680 E3	9.3	87	0.00
18		benzo(a)pyrene	92.435	89.092 E3	3.6	94	0.00
19		indeno(1,2,3-cd)pyrene	94.658	93.816 E3	0.9	97	0.00
20		dibenzo(ah)anthracene	91.399	89.029 E3	2.6	95	0.00
21		benzo(ghi)perylene	92.123	90.161 E3	2.1	96	0.00
Signal #2							
25	h	c-9	73.872	73.771 E3	0.1	0#	0.00
26	h	c-10	73.872	74.925 E3	-1.4	0#	0.00
27		naphthalene #2	79.872	80.095 E3	-0.3	105	0.00
28		c-12	73.872	74.716 E3	-1.1	0#	0.00
29		2-methylnaphthalene #2	80.566	80.189 E3	0.5	105	0.00
30		c-14	73.872	74.416 E3	-0.7	0#	0.00
31		c-16	73.872	73.964 E3	-0.1	0#	0.00

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GDE790-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14077.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	74.254	E3	-0.5	0#	0.00
33		c-19	66.806	73.642	E3	-10.2	0#	0.00
34		c-20	66.806	72.241	E3	-8.1	0#	0.00
35	s	1-chlorooctadecane	56.575	58.110	E3	-2.7	108	0.00
36		c-22	66.806	71.941	E3	-7.7	0#	0.00
37		c-24	66.806	67.415	E3	-0.9	0#	0.00
38		c-26	66.806	71.781	E3	-7.4	0#	0.00
39		c-28	66.806	69.491	E3	-4.0	0#	0.00
40	h	c-30	66.806	69.429	E3	-3.9	0#	0.00
41	h	c-36	66.806	61.938	E3	7.3	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
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

EPH160513W.M Fri May 13 14:48:59 2016

8.5.3

8

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GDE790-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14087.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14087.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 13 May 2016   2:28 pm
Operator  : thomasa
Sample    : ecc735-50,gde790
Misc      : op47446,gde790,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 14:52:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	125.264 E3	-21.5	117	0.00
3		2-methylnaphthalene	102.482	123.656 E3	-20.7	117	0.00
4	s	2-fluorobiphenyl	92.230	112.213 E3	-21.7	118	0.00
5		acenaphthylene	100.602	122.972 E3	-22.2	118	0.00
6	s	2-bromonaphthalene	62.755	75.825 E3	-20.8	117	0.00
7		acenaphthene	103.376	127.538 E3	-23.4	119	0.00
8		fluorene	101.567	123.835 E3	-21.9	118	0.00
9		phenanthrene	101.763	122.686 E3	-20.6	117	0.00
10		anthracene	97.008	118.063 E3	-21.7	119	0.00
11	s	o-terphenyl	102.427	122.850 E3	-19.9	117	0.00
12		fluoranthene	99.941	119.126 E3	-19.2	117	0.00
13		pyrene	101.462	122.052 E3	-20.3	119	0.00
14		benzo(a)anthracene	96.675	114.241 E3	-18.2	117	0.00
15		chrysene	97.341	114.332 E3	-17.5	115	0.00
16		benzo(B)fluoranthene	99.002	115.282 E3	-16.4	116	0.00
17		benzo(k)fluoranthene	94.503	113.554 E3	-20.2	115	0.00
18		benzo(a)pyrene	92.435	108.740 E3	-17.6	115	0.00
19		indeno(1,2,3-cd)pyrene	94.658	111.311 E3	-17.6	115	0.00
20		dibenzo(ah)anthracene	91.399	106.385 E3	-16.4	114	0.00
21		benzo(ghi)perylene	92.123	107.636 E3	-16.8	114	0.00
Signal #2							
25	h	c-9	73.872	81.988 E3	-11.0	0#	0.00
26	h	c-10	73.872	83.237 E3	-12.7	0#	0.00
27		naphthalene #2	79.872	88.693 E3	-11.0	117	0.00
28		c-12	73.872	82.791 E3	-12.1	0#	0.00
29		2-methylnaphthalene #2	80.566	88.729 E3	-10.1	117	0.00
30		c-14	73.872	82.268 E3	-11.4	0#	0.00
31		c-16	73.872	81.315 E3	-10.1	0#	0.00

Continuing Calibration Summary

Job Number: MC45799 **Sample:** GDE790-ECC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14087.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	81.172	E3	-9.9	0#	0.00
33		c-19	66.806	80.404	E3	-20.4	0#	0.00
34		c-20	66.806	78.790	E3	-17.9	0#	0.00
35	s	1-chlorooctadecane	56.575	63.438	E3	-12.1	118	0.00
36		c-22	66.806	78.050	E3	-16.8	0#	0.00
37		c-24	66.806	72.629	E3	-8.7	0#	0.00
38		c-26	66.806	76.837	E3	-15.0	0#	0.00
39		c-28	66.806	73.861	E3	-10.6	0#	0.00
40	h	c-30	66.806	73.387	E3	-9.9	0#	0.00
41	h	c-36	66.806	65.510	E3	1.9	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.20#
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

EPH160513W.M Fri May 13 14:52:45 2016

8.5.4

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14081.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 11:39 am
Operator : thomasa
Sample : mc45799-1a,op47446
Misc : op47446,gde790,900,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 12:23:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.607	1649606	17.886 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 89.43%#		
6) s 2-bromonaphthalene	7.333	1137120	18.120 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 90.60%#		
11) s o-terphenyl	9.872	1621815	15.834 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 79.17%#		
35) s 1-chlorooctadecane	11.225	514379	9.092 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 45.46%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	3131881	31.891 µg/mlm
25) h c-9	2.648	1216186	16.463 µg/mlm
41) h c-36	17.008	1152734	17.255 µg/mlm

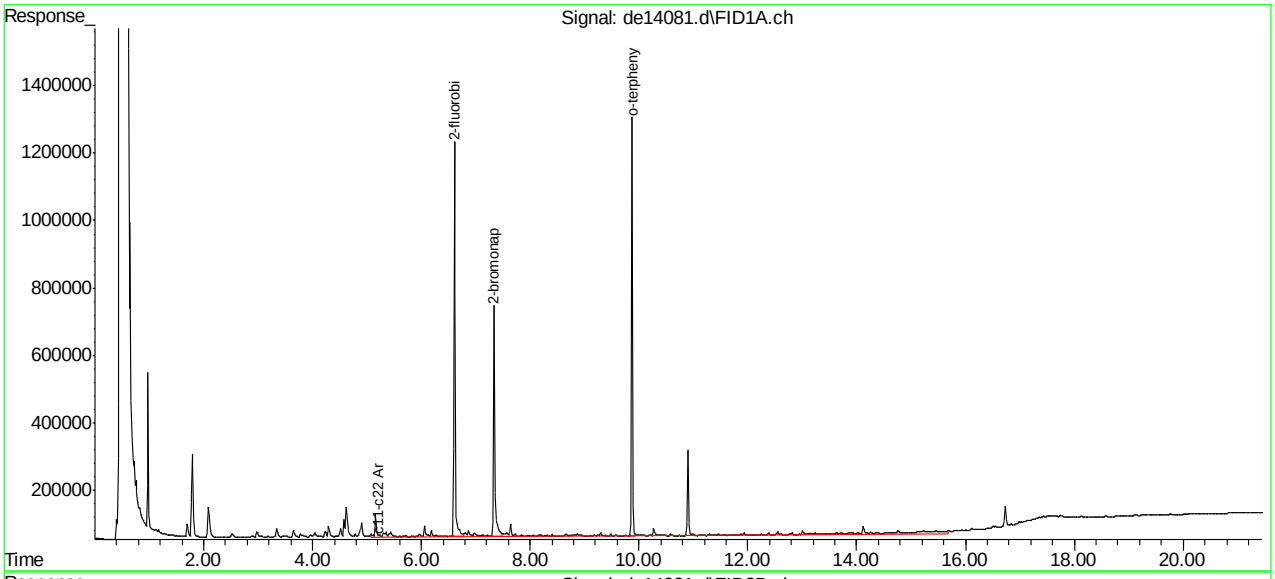
(f)=RT Delta > 1/2 Window (m)=manual int.

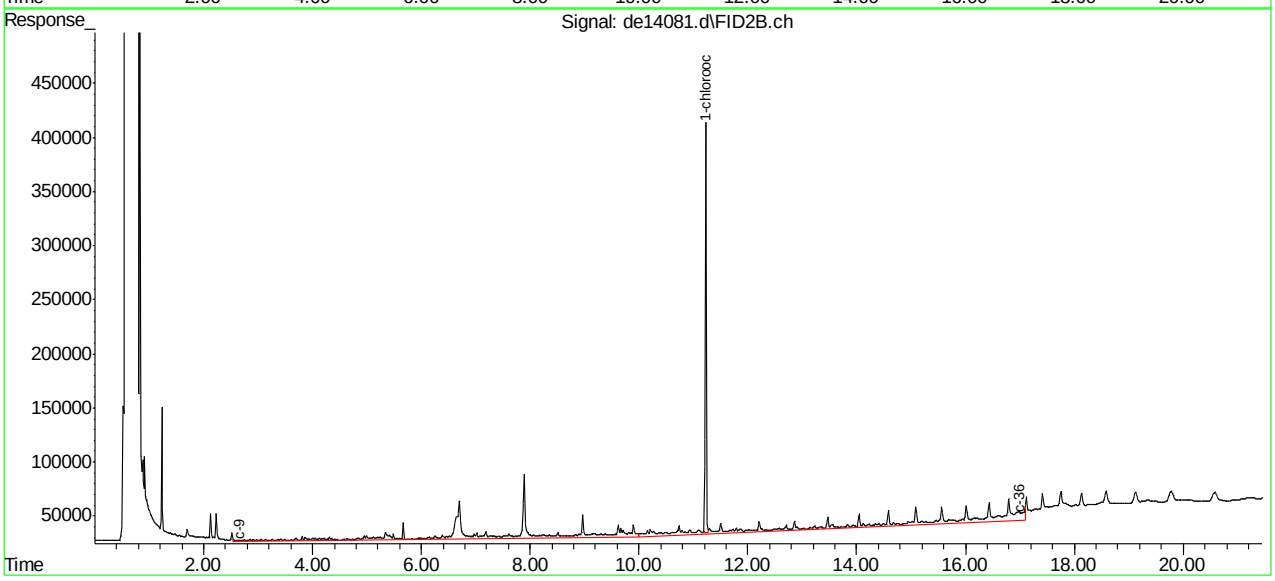
Quantitation Report (QT Reviewed)

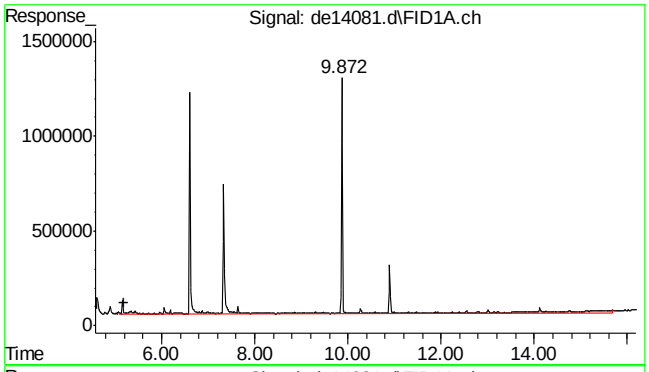
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14081.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 11:39 am
Operator : thomasa
Sample : mc45799-1a,op47446
Misc : op47446,gde790,900,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 12:23:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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

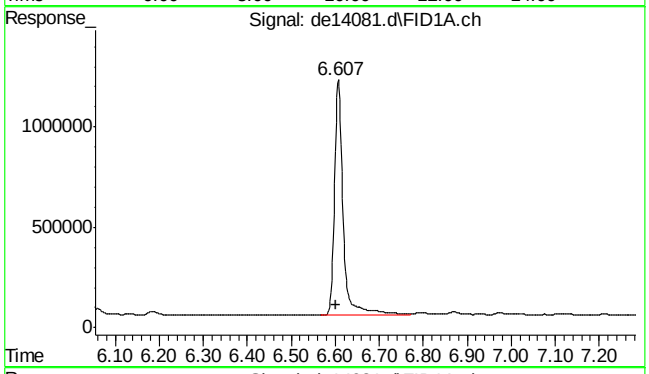






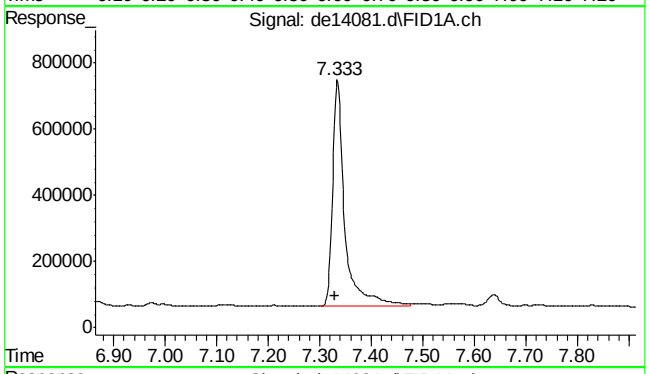
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 3131881
Conc: 31.89 µg/ml m



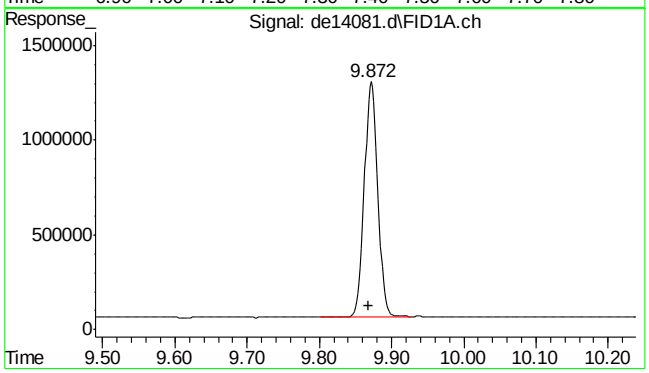
#4 2-fluorobiphenyl

R.T.: 6.607 min
Delta R.T.: 0.005 min
Response: 1649606
Conc: 17.89 µg/ml



#6 2-bromonaphthalene

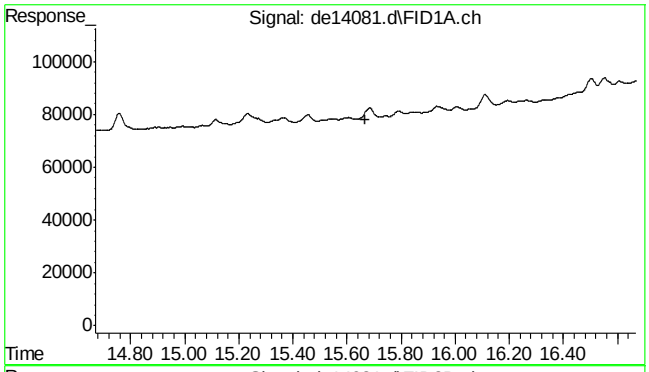
R.T.: 7.333 min
Delta R.T.: 0.005 min
Response: 1137120
Conc: 18.12 µg/ml



#11 o-terphenyl

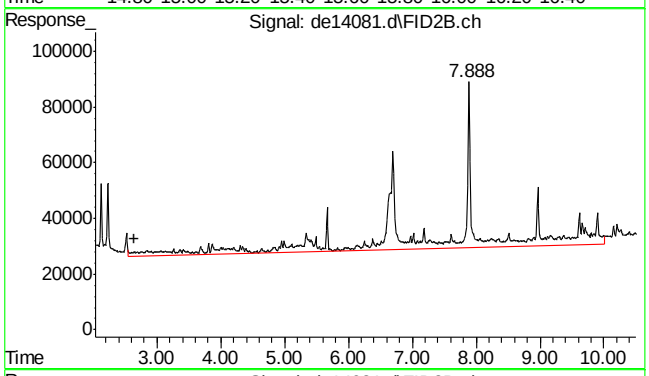
R.T.: 9.872 min
Delta R.T.: 0.003 min
Response: 1621815
Conc: 15.83 µg/ml

SGS ACCUTEST MC45799



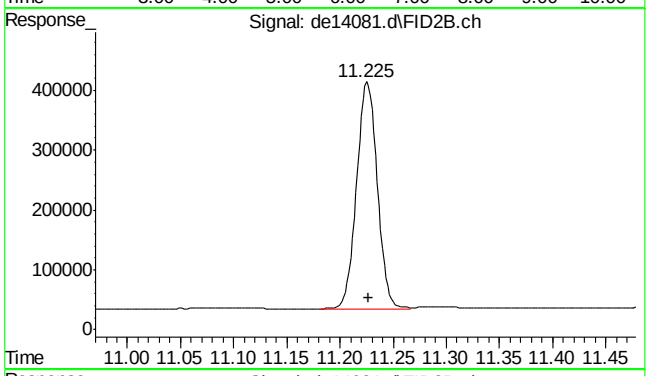
#22 bht

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



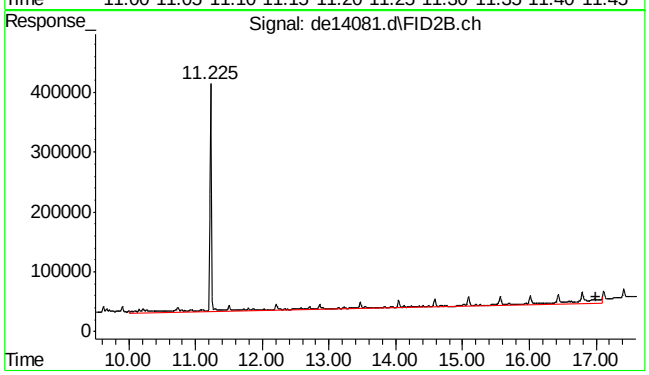
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1216186
Conc: 16.46 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 514379
Conc: 9.09 µg/ml



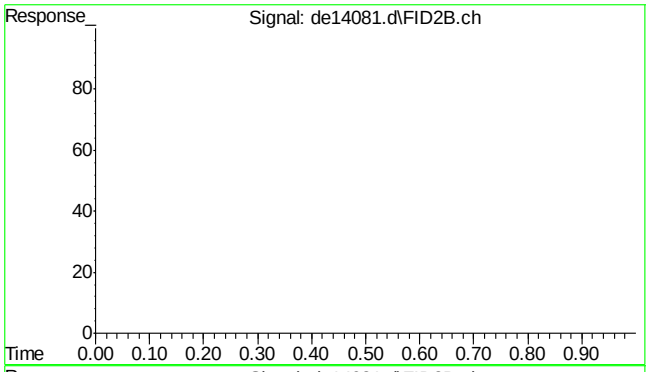
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1152734
Conc: 17.25 µg/ml m

9.1.1

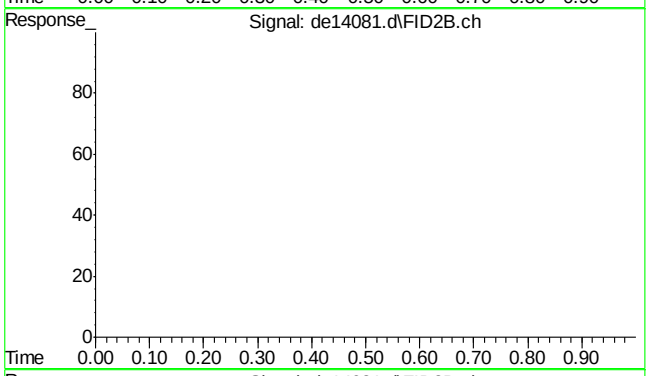
9

SGS ACCUTEST MC45799



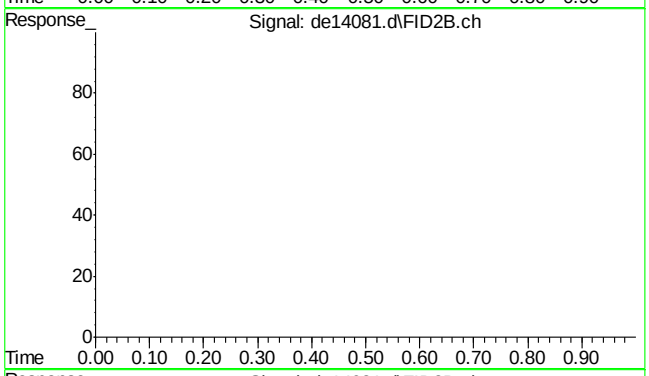
#42 bht

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



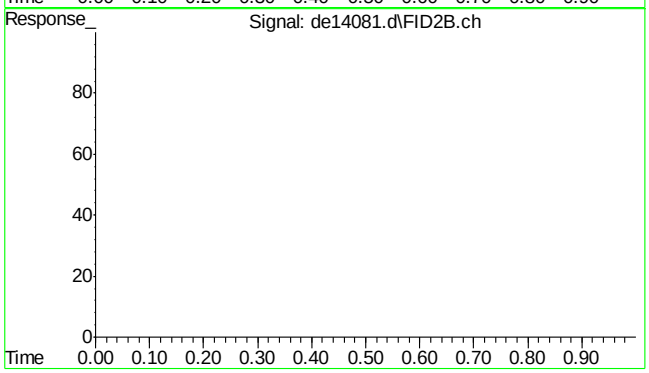
#43 bht

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\DE160513EPH\
Data File : de14082.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 12:08 pm
Operator : thomasa
Sample : mc45799-2a,op47446
Misc : op47446,gde790,920,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 13:33:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.605	1587367	17.211 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	86.05%#
6) s 2-bromonaphthalene	7.332	1017606	16.216 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.08%#
11) s o-terphenyl	9.870	1680980	16.412 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	82.06%#
35) s 1-chlorooctadecane	11.223	730911	12.919 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	64.59%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2798635	28.498 µg/mlm
25) h c-9	2.648	1099073	14.878 µg/mlm
41) h c-36	17.008	980833	14.682 µg/mlm

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

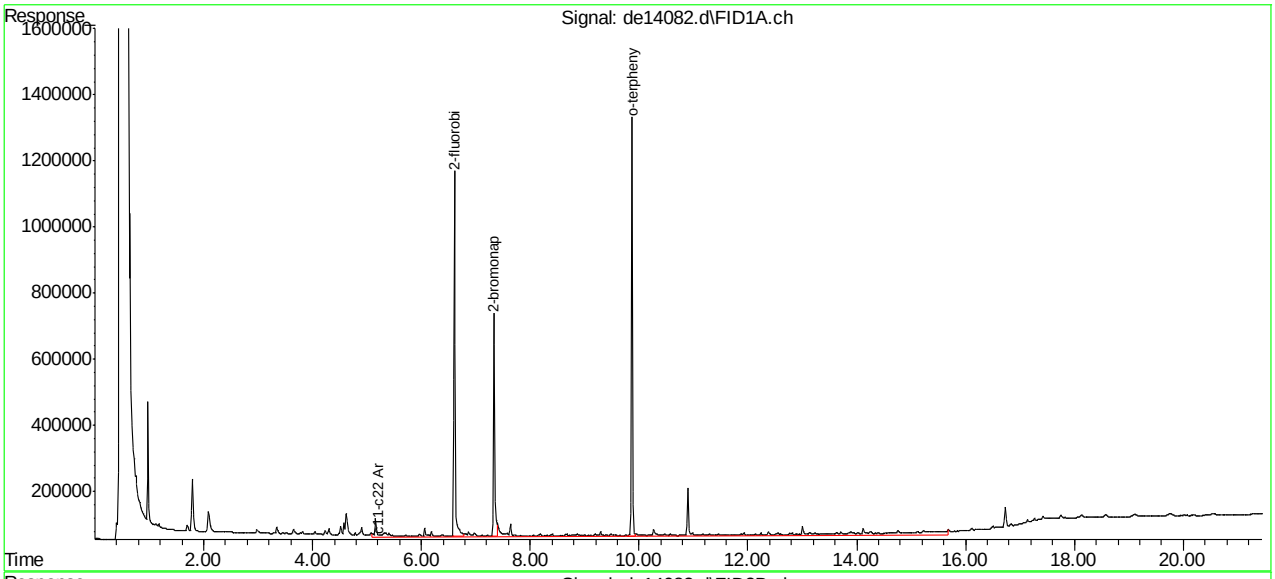
SGS ACCUTEST MC45799

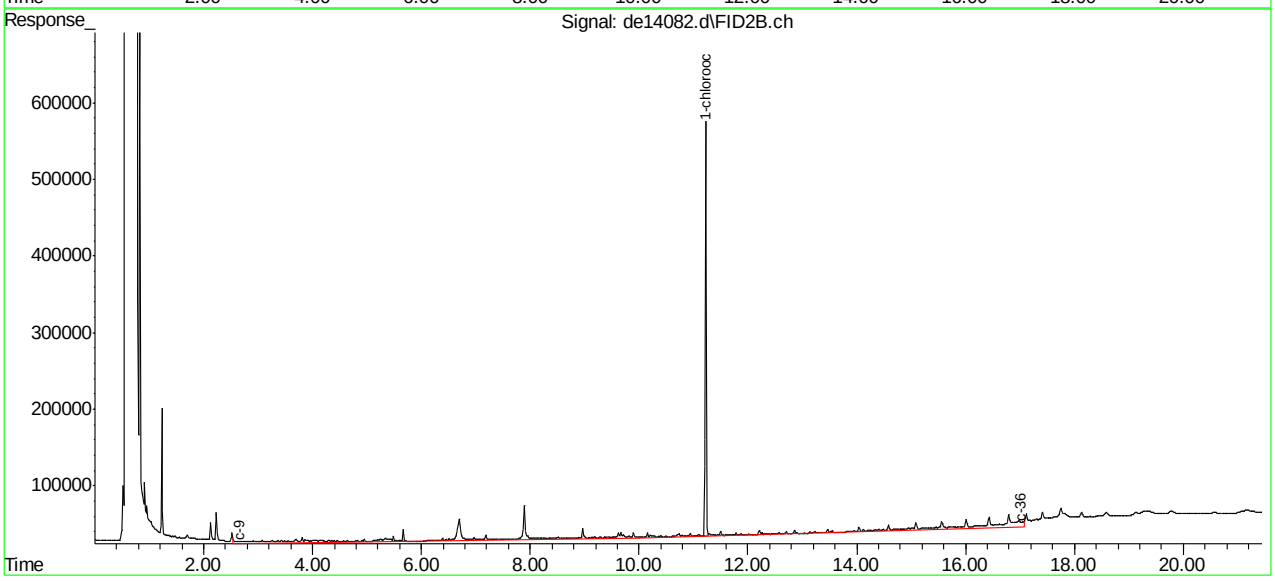
Quantitation Report (QT Reviewed)

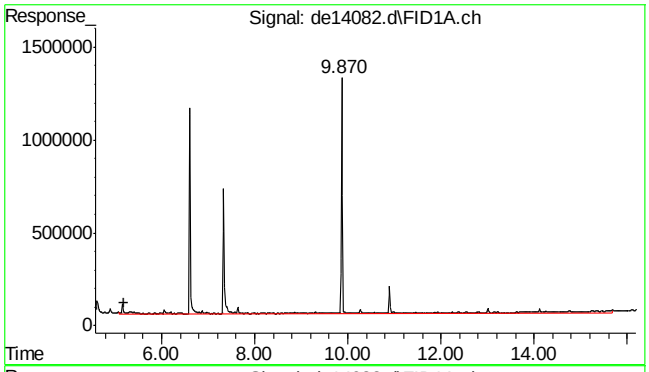
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14082.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 12:08 pm
Operator : thomasa
Sample : mc45799-2a,op47446
Misc : op47446,gde790,920,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 13:33:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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

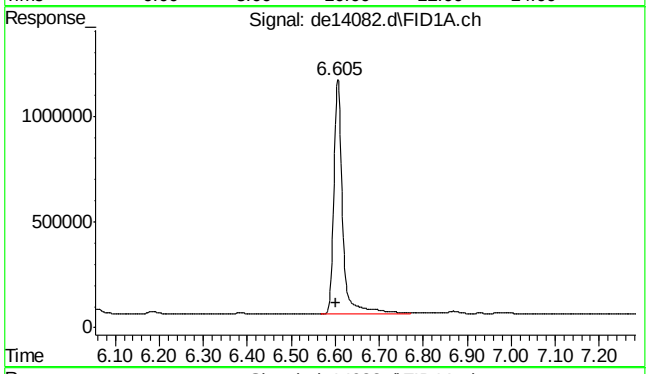






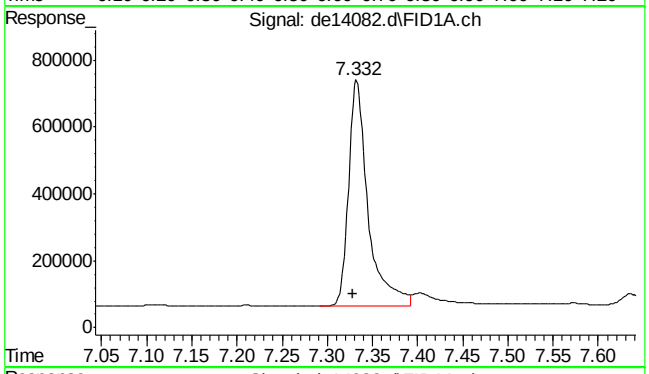
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2798635
Conc: 28.50 µg/ml m



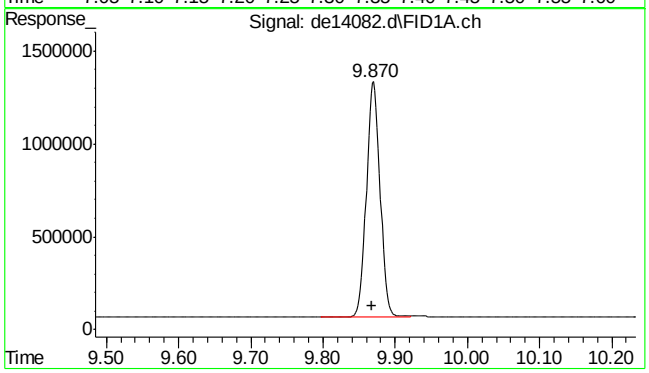
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.003 min
Response: 1587367
Conc: 17.21 µg/ml



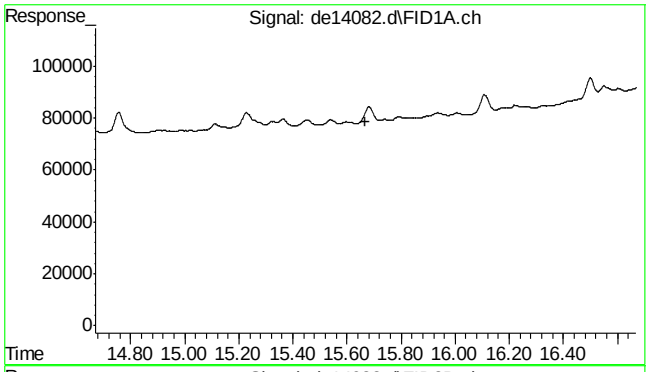
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.003 min
Response: 1017606
Conc: 16.22 µg/ml



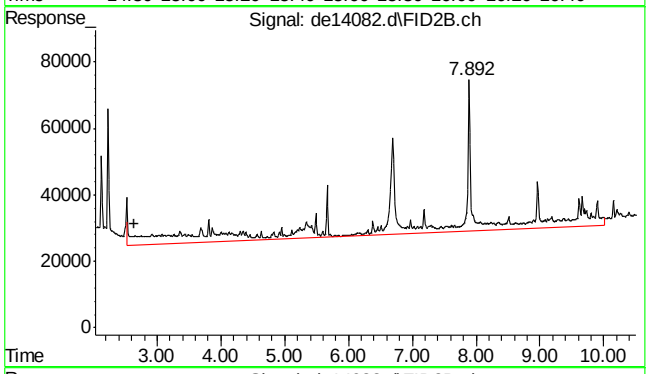
#11 o-terphenyl

R.T.: 9.870 min
Delta R.T.: 0.002 min
Response: 1680980
Conc: 16.41 µg/ml



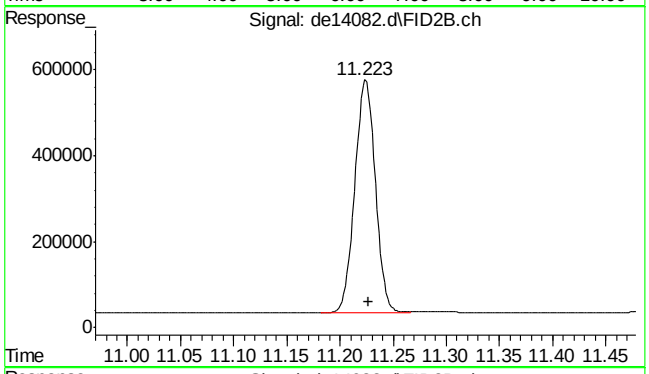
#22 bht

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



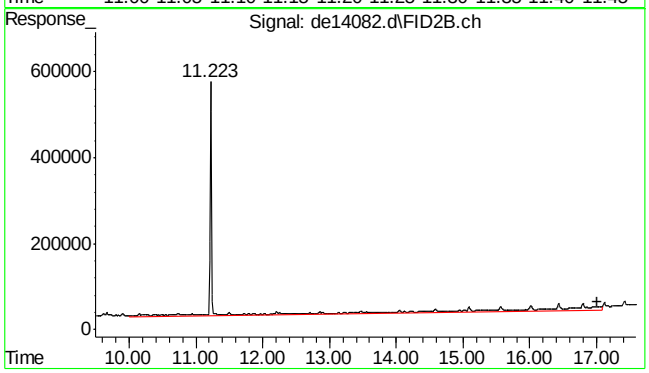
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1099073
Conc: 14.88 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 730911
Conc: 12.92 µg/ml



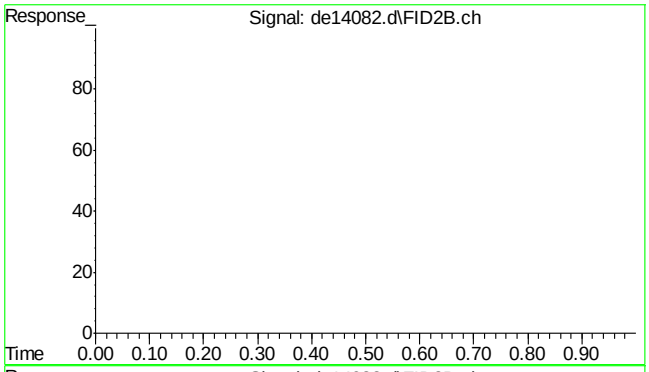
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 980833
Conc: 14.68 µg/ml m

9.1.2

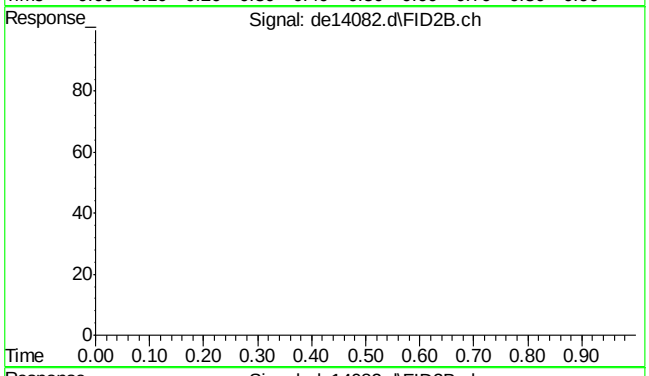
9

SGS ACCUTEST MC45799



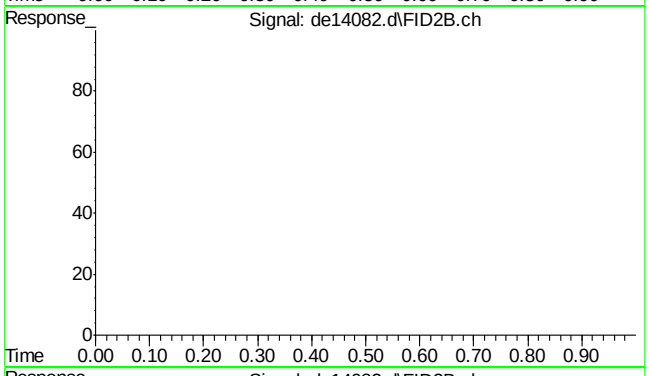
#42 bht

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



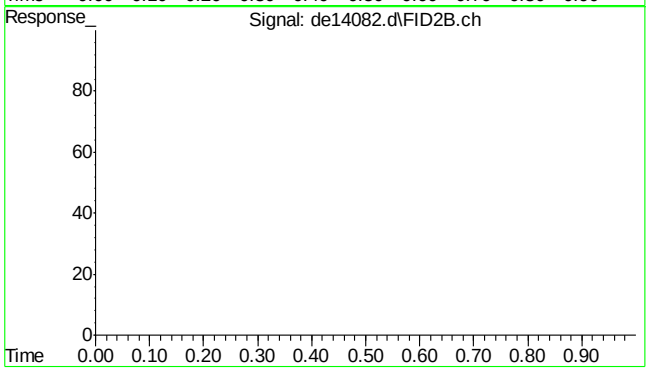
#43 bht

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\DE160513EPH\
Data File : de14080.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 11:07 am
Operator : thomasa
Sample : op47446-mb
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:55:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.605	1788884	19.396 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 96.98%#		
6) s 2-bromonaphthalene	7.332	1122889	17.893 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 89.47%#		
11) s o-terphenyl	9.868	1986695	19.396 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 96.98%#		
35) s 1-chlorooctadecane	11.225	1061422	18.761 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 93.80%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	2843201	28.952 µg/mlm
25) h c-9	2.648	1223056	16.556 µg/mlm
41) h c-36	17.008	914357	13.687 µg/mlm

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

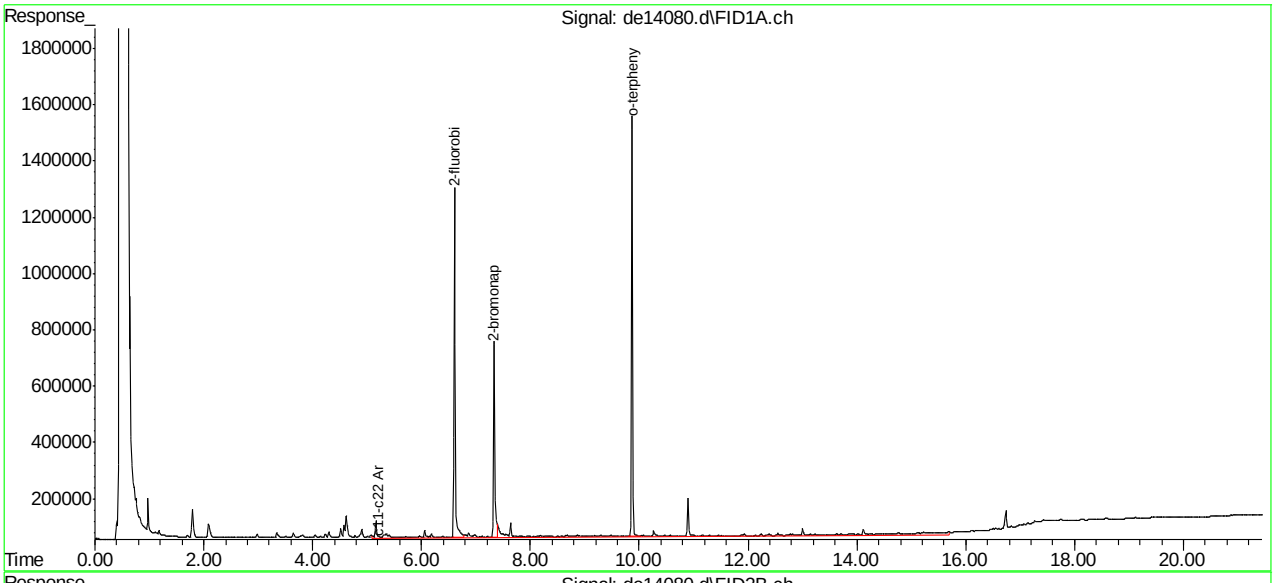
SGS ACCUTEST MC45799

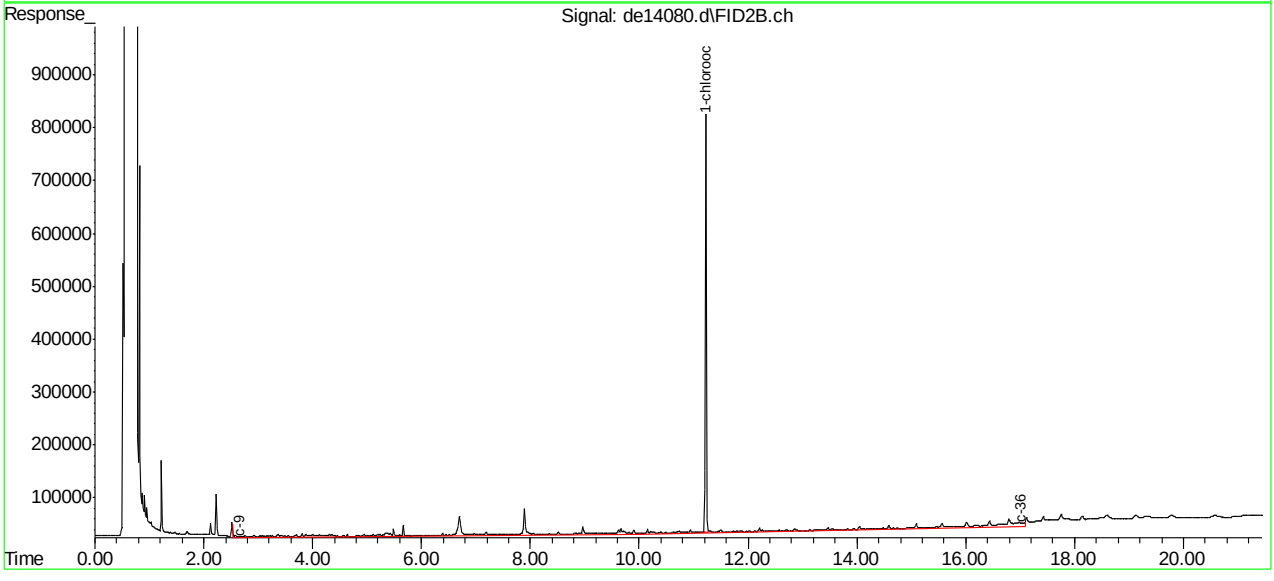
Quantitation Report (QT Reviewed)

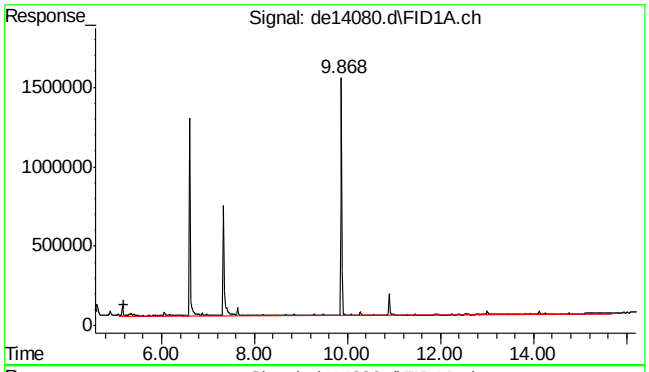
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14080.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 11:07 am
Operator : thomasa
Sample : op47446-mb
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:55:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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

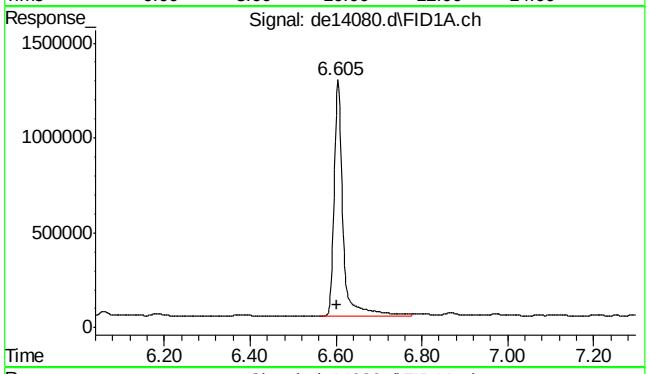






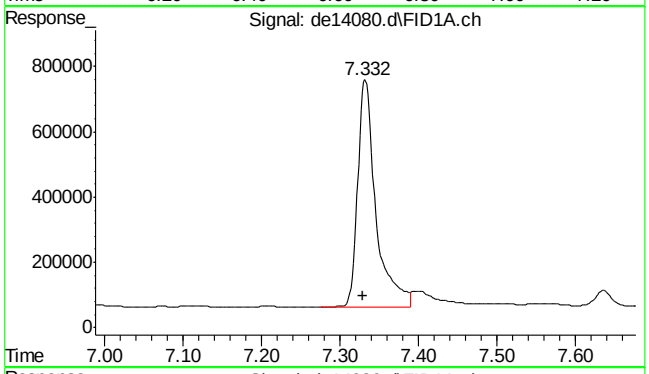
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 2843201
Conc: 28.95 µg/ml m



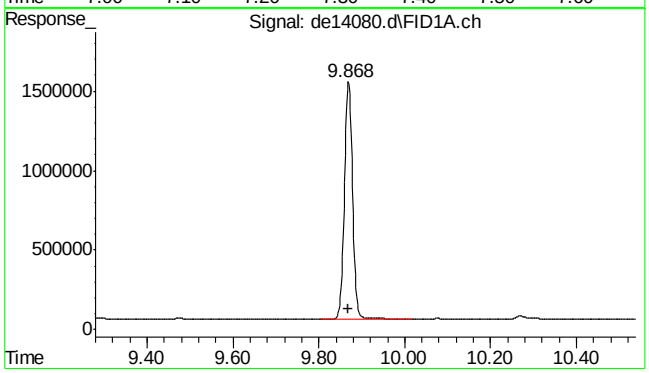
#4 2-fluorobiphenyl

R.T.: 6.605 min
Delta R.T.: 0.003 min
Response: 1788884
Conc: 19.40 µg/ml



#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.003 min
Response: 1122889
Conc: 17.89 µg/ml



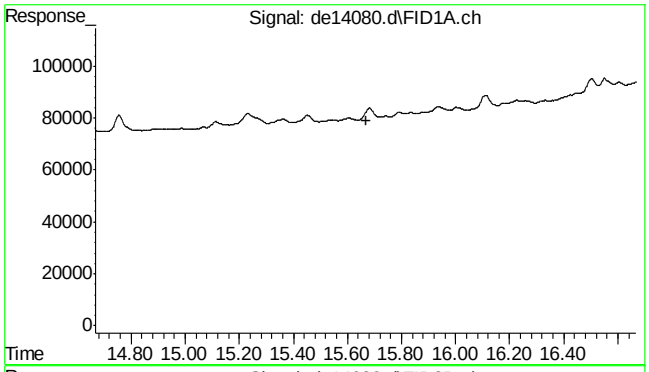
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: 0.000 min
Response: 1986695
Conc: 19.40 µg/ml

9.2.1

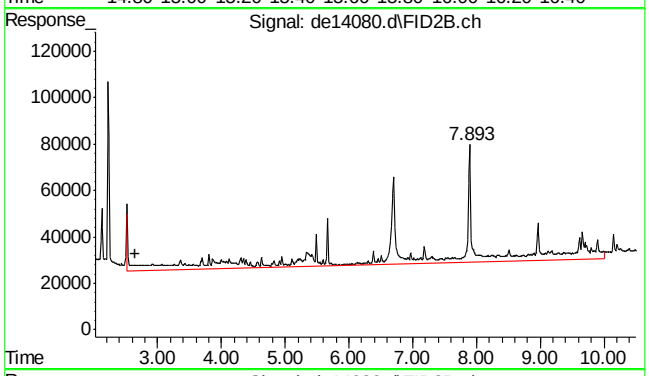
9

SGS ACCUTEST MC45799



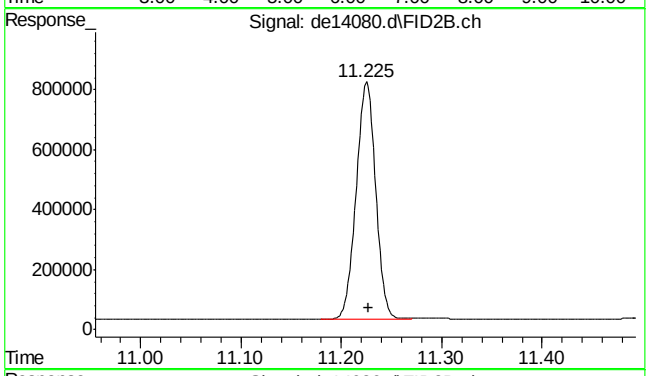
#22 bht

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



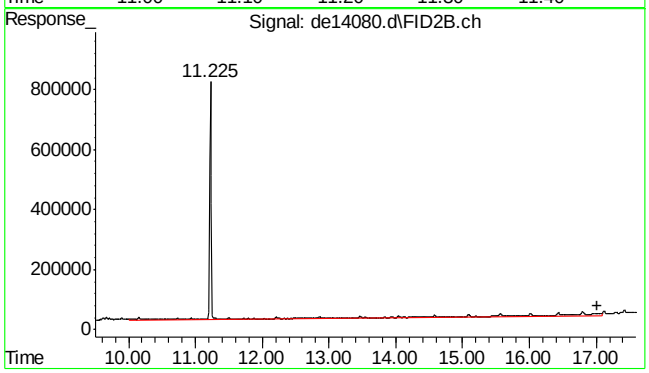
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1223056
Conc: 16.56 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 1061422
Conc: 18.76 µg/ml



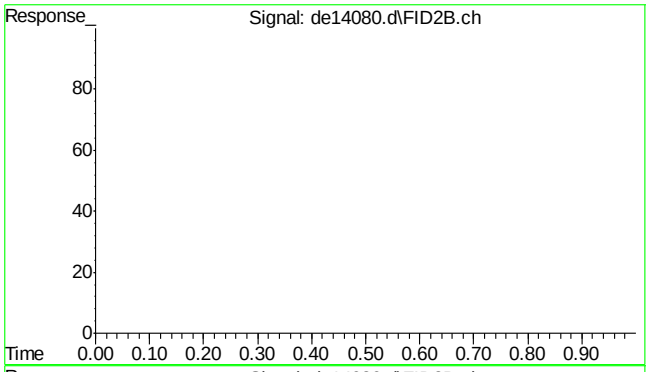
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 914357
Conc: 13.69 µg/ml m

9.2.1

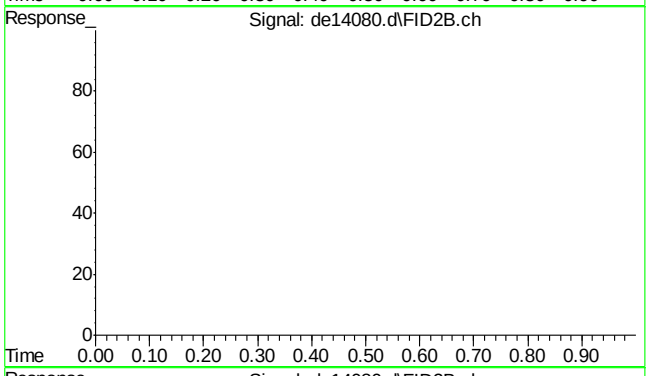
9

SGS ACCUTEST MC45799



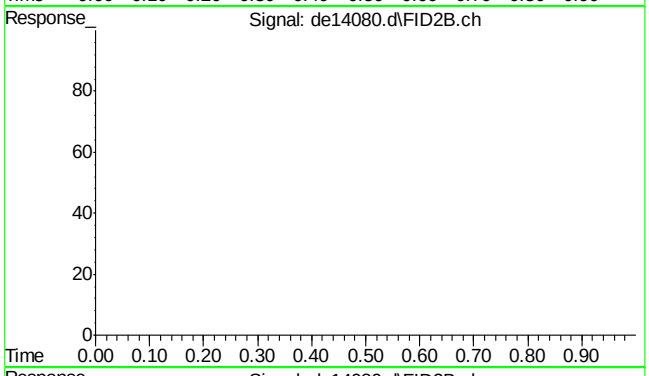
#42 bht

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



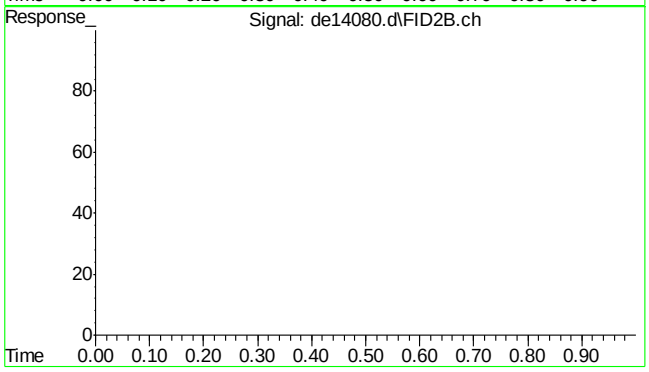
#43 bht

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 MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14078.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:11 am
Operator : thomasa
Sample : op47446-bs
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:56:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.603	1678487	18.199 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 91.00%#
6) s	2-bromonaphthalene	7.330	1080647	17.220 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 86.10%#
11) s	o-terphenyl	9.868	1831565	17.882 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 89.41%#
35) s	1-chlorooctadecane	11.225	866684	15.319 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 76.59%#
	Target Compounds			
1) h	c11-c22 Aromatics (Un...	5.203	41341543	420.973 µg/mlm
2)	naphthalene	5.150	1886506	18.291 µg/ml
3)	2-methylnaphthalene	6.050	1911700	18.654 µg/ml
5)	acenaphthylene	7.162	1898302	18.869 µg/ml
7)	acenaphthene	7.403	2092555	20.242 µg/ml
8)	fluorene	8.047	2021621	19.904 µg/ml
9)	phenanthrene	9.227	2054881	20.193 µg/ml
10)	anthracene	9.285	2213250	22.815 µg/ml
12)	fluoranthene	10.732	2232185	22.335 µg/ml
13)	pyrene	10.988	2251890	22.194 µg/ml
14)	benzo(a)anthracene	12.552	2267824	23.458 µg/ml
15)	chrysene	12.598	2271438	23.335 µg/ml
16)	benzo(B)fluoranthene	13.847	2343275	23.669 µg/ml
17)	benzo(k)fluoranthene	13.875	2160570	22.863 µg/ml
18)	benzo(a)pyrene	14.183	2203383	23.837 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.322	2235384	23.615 µg/ml
20)	dibenzo(ah)anthracene	15.363	2162719	23.662 µg/ml
21)	benzo(ghi)perylene	15.543	2217464	24.071 µg/ml
25) h	c-9	2.648	1133643	15.346 µg/mlm
26) h	c-10	3.815	1304107	17.654 µg/ml
27)	naphthalene #2	5.488	10910	0.137 µg/ml
28)	c-12	5.665	1389009	18.803 µg/ml
29)	2-methylnaphthalene #2	6.383	7125	0.088 µg/ml
30)	c-14	7.182	1402233	18.982 µg/ml
31)	c-16	8.512	1425756	19.300 µg/ml
32)	c-18	9.705	1501138	20.321 µg/ml
33)	c-19	10.260	1523374	22.803 µg/ml
34)	c-20	10.792	1533945	22.961 µg/ml
36)	c-22	11.787	1550201	23.204 µg/ml
37)	c-24	12.703	1535101	22.978 µg/ml

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14078.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:11 am
Operator : thomasa
Sample : op47446-bs
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:56:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	1503263	22.502	µg/ml
39)		c-28	14.348	1466955	21.958	µg/ml
40)	h	c-30	15.098	1401952	20.985	µg/ml
41)	h	c-36	17.008	967669	14.485	µg/mlm

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

9.3.1

9

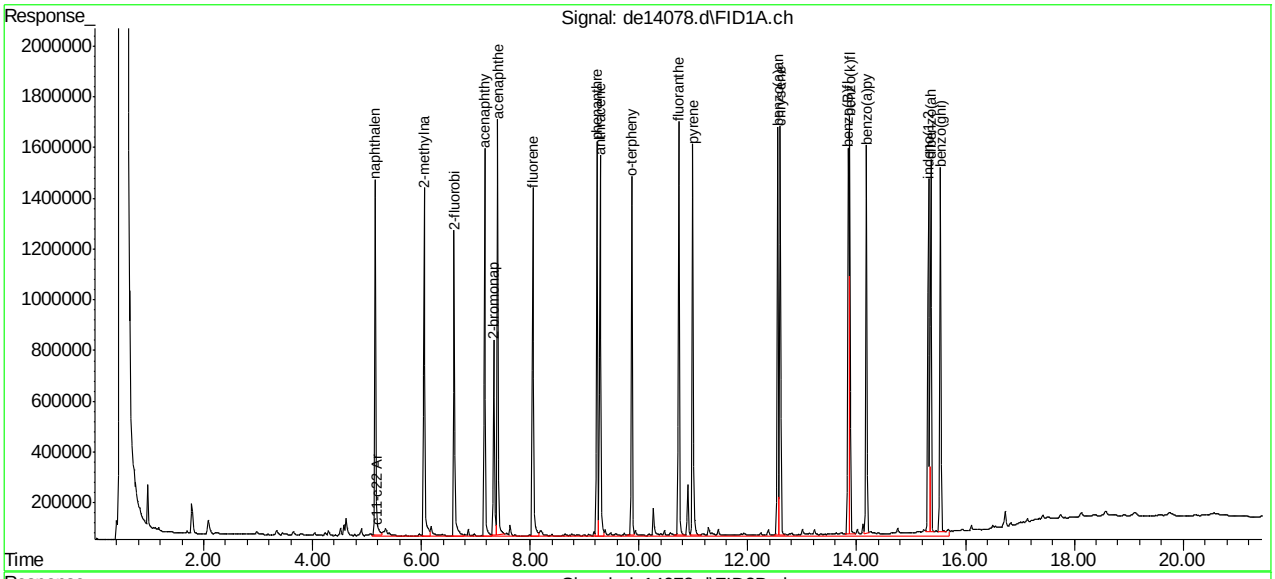
SGS ACCUTEST MC45799

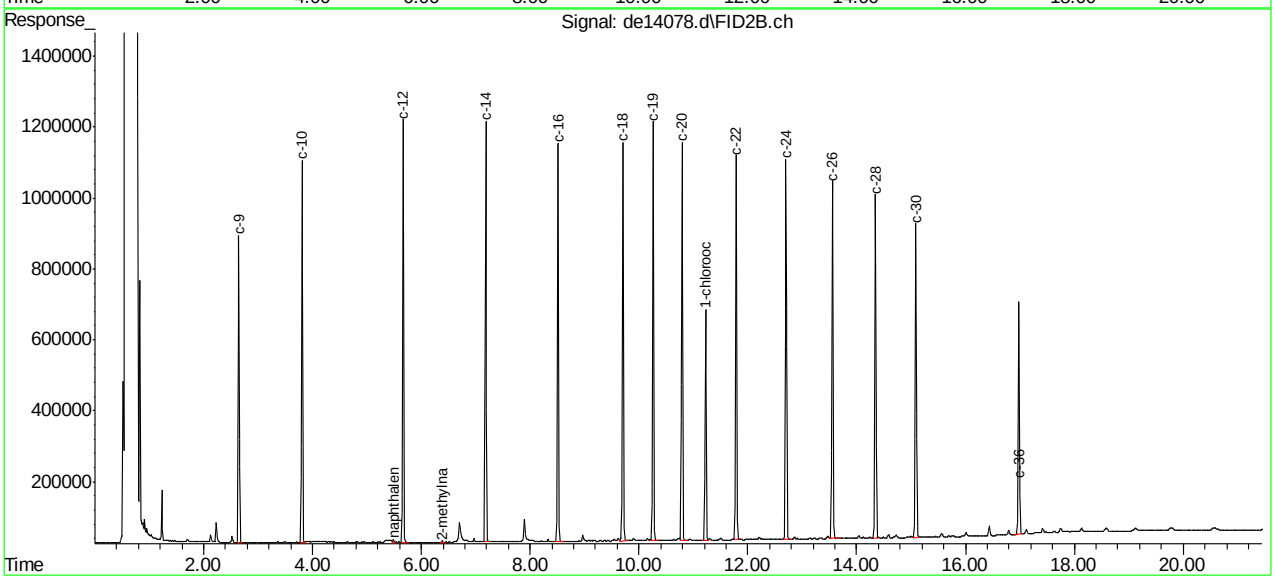
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14078.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:11 am
Operator : thomasa
Sample : op47446-bs
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

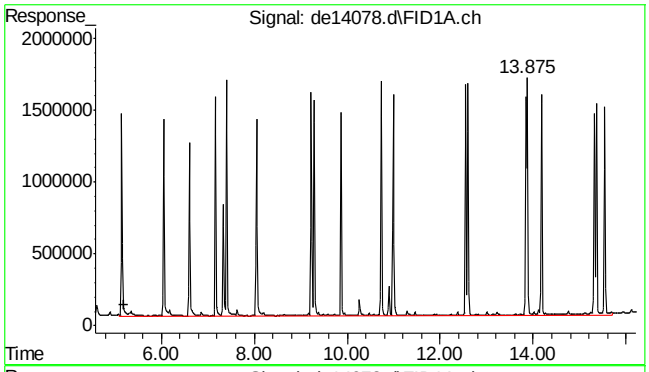
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:56:13 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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



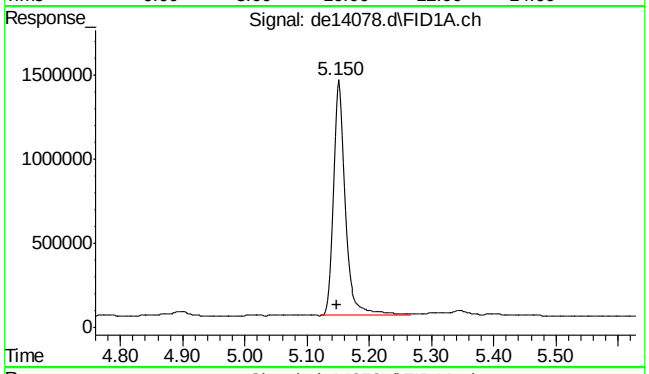


EPH160513W.M Fri May 13 14:49:18 2016 Page: 3



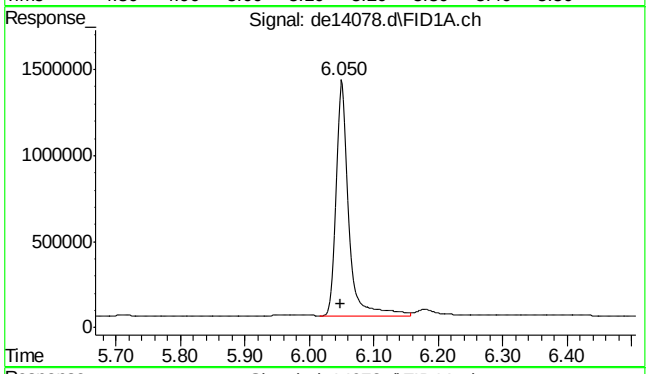
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 41341543
Conc: 420.97 µg/ml m



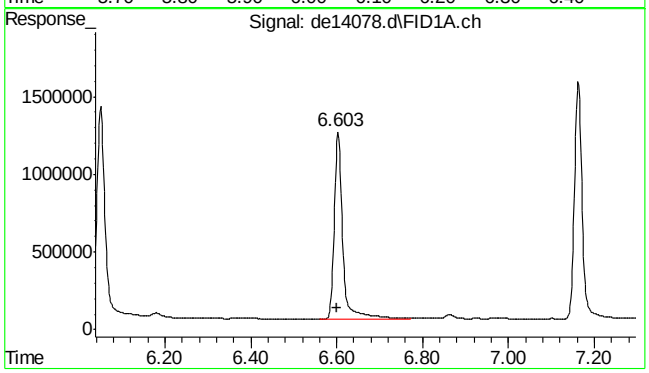
#2 naphthalene

R.T.: 5.150 min
Delta R.T.: 0.002 min
Response: 1886506
Conc: 18.29 µg/ml



#3 2-methylnaphthalene

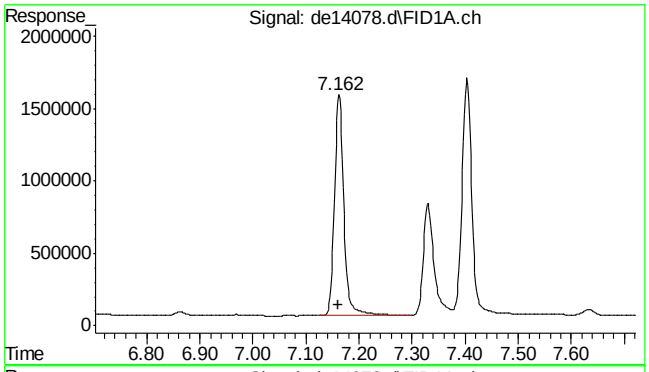
R.T.: 6.050 min
Delta R.T.: 0.002 min
Response: 1911700
Conc: 18.65 µg/ml



#4 2-fluorobiphenyl

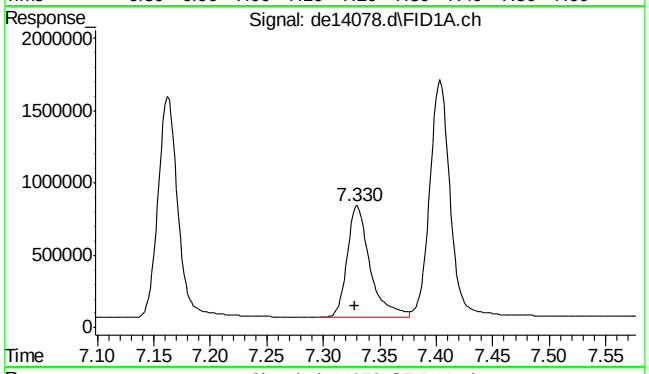
R.T.: 6.603 min
Delta R.T.: 0.002 min
Response: 1678487
Conc: 18.20 µg/ml

SGS ACCUTEST MC45799



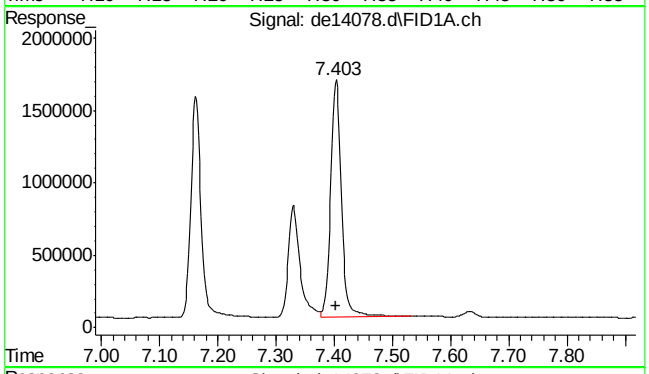
#5 acenaphthylene

R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 1898302
Conc: 18.87 µg/ml



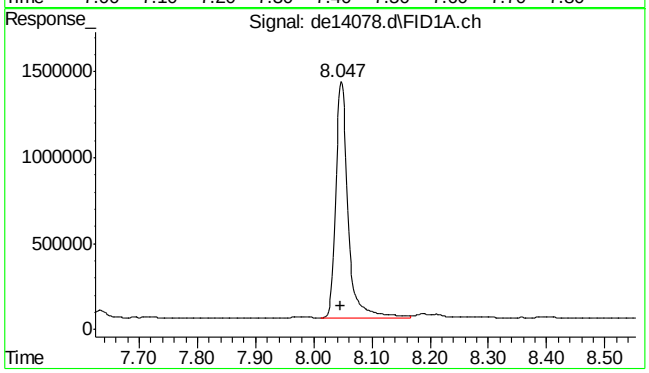
#6 2-bromonaphthalene

R.T.: 7.330 min
Delta R.T.: 0.002 min
Response: 1080647
Conc: 17.22 µg/ml



#7 acenaphthene

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 2092555
Conc: 20.24 µg/ml



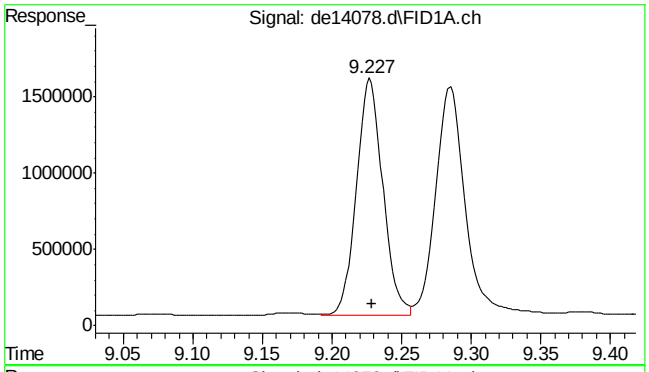
#8 fluorene

R.T.: 8.047 min
Delta R.T.: 0.000 min
Response: 2021621
Conc: 19.90 µg/ml

9.3.1

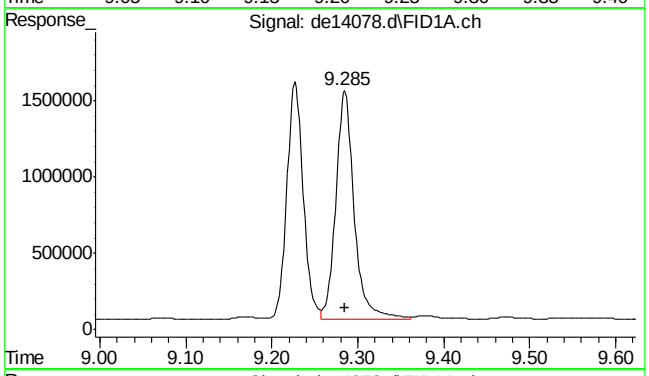
9

SGS ACCUTEST MC45799



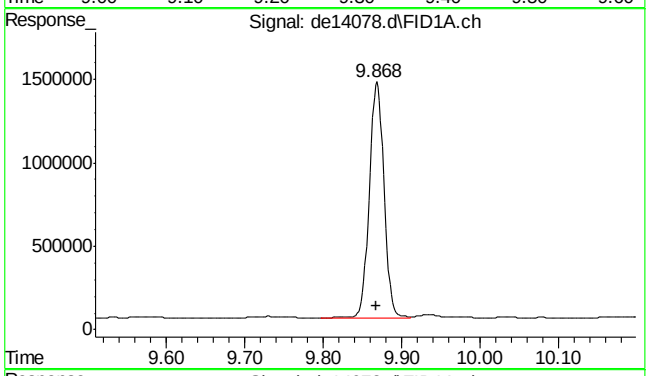
#9 phenanthrene

R.T.: 9.227 min
Delta R.T.: -0.002 min
Response: 2054881
Conc: 20.19 µg/ml



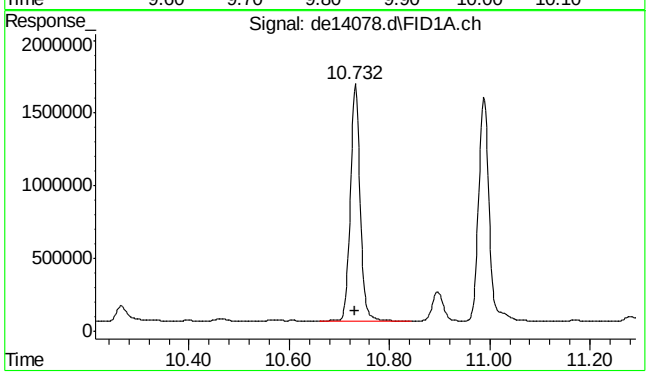
#10 anthracene

R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 2213250
Conc: 22.82 µg/ml



#11 o-terphenyl

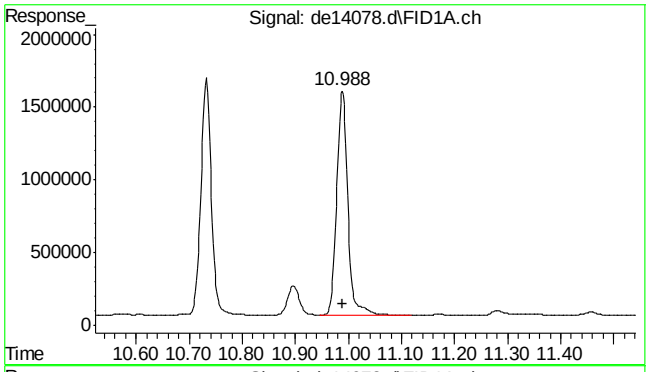
R.T.: 9.868 min
Delta R.T.: 0.000 min
Response: 1831565
Conc: 17.88 µg/ml



#12 fluoranthene

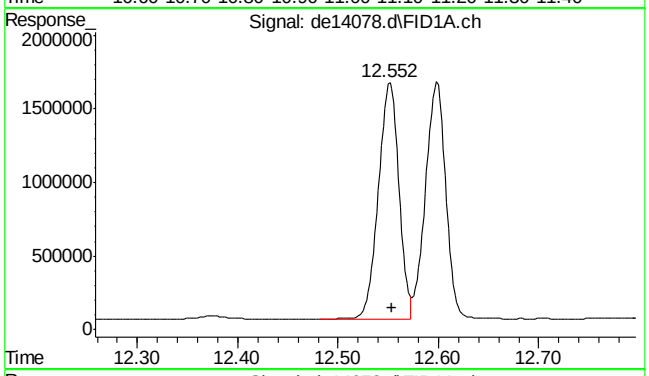
R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 2232185
Conc: 22.34 µg/ml

SGS ACCUTEST MC45799



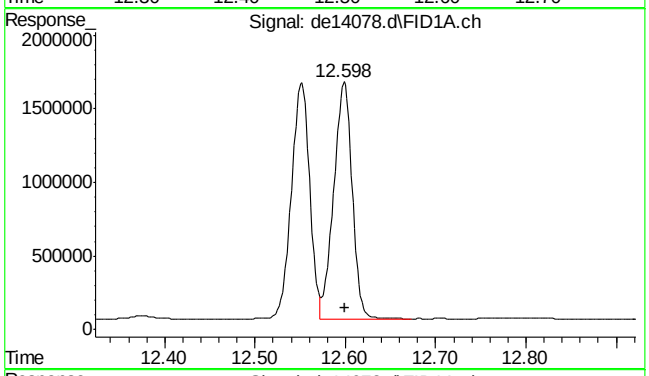
#13 pyrene

R.T.: 10.988 min
Delta R.T.: 0.000 min
Response: 2251890
Conc: 22.19 µg/ml



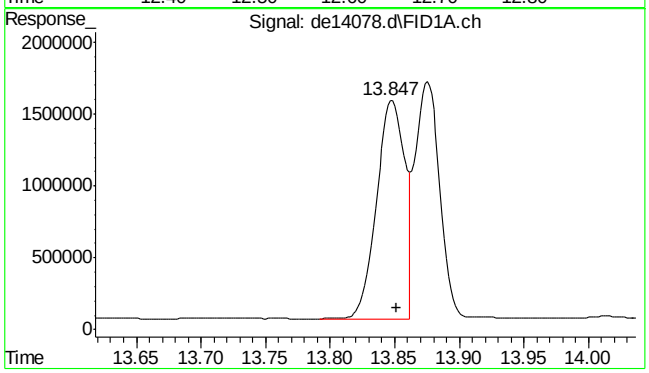
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: -0.002 min
Response: 2267824
Conc: 23.46 µg/ml



#15 chrysene

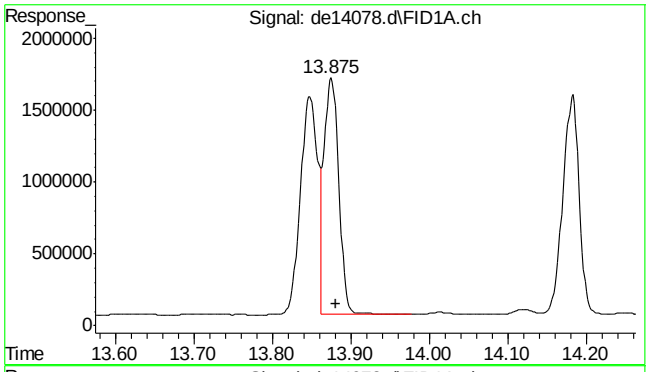
R.T.: 12.598 min
Delta R.T.: -0.002 min
Response: 2271438
Conc: 23.33 µg/ml



#16 benzo(B)fluoranthene

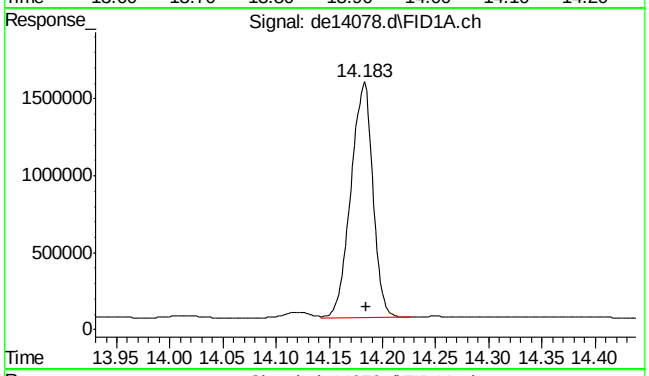
R.T.: 13.847 min
Delta R.T.: -0.005 min
Response: 2343275
Conc: 23.67 µg/ml

SGS ACCUTEST MC45799



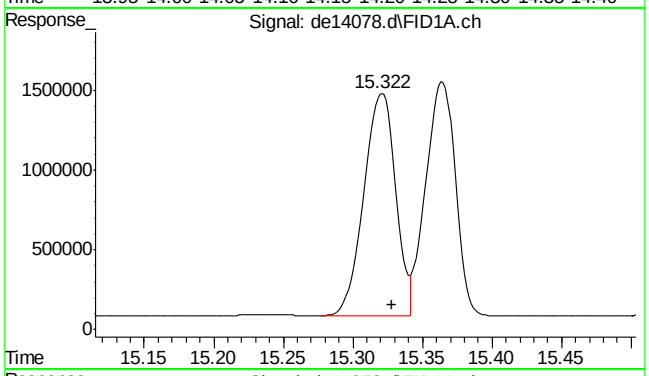
#17 benzo(k)fluoranthene

R.T.: 13.875 min
Delta R.T.: -0.007 min
Response: 2160570
Conc: 22.86 µg/ml



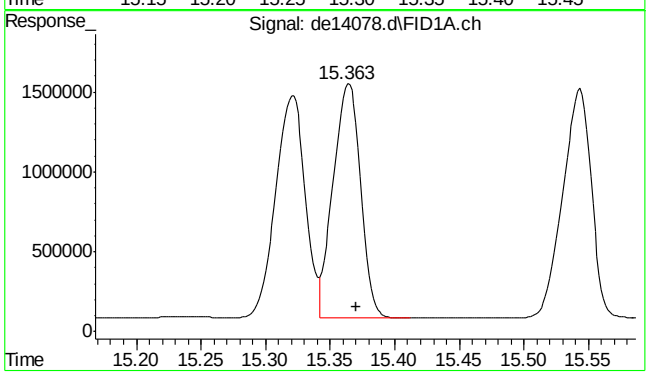
#18 benzo(a)pyrene

R.T.: 14.183 min
Delta R.T.: -0.002 min
Response: 2203383
Conc: 23.84 µg/ml



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

R.T.: 15.322 min
Delta R.T.: -0.007 min
Response: 2235384
Conc: 23.62 µg/ml



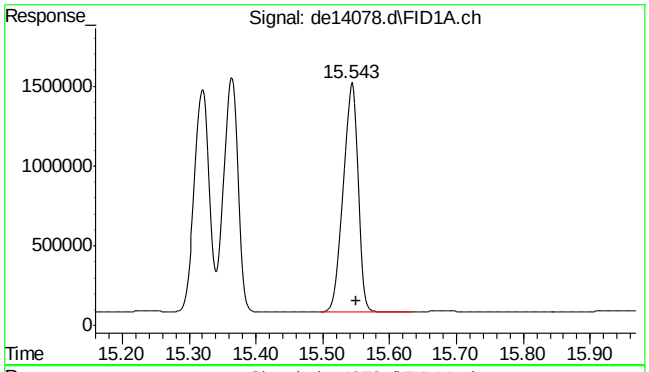
#20 dibenzo(ah)anthracene

R.T.: 15.363 min
Delta R.T.: -0.007 min
Response: 2162719
Conc: 23.66 µg/ml

9.3.1

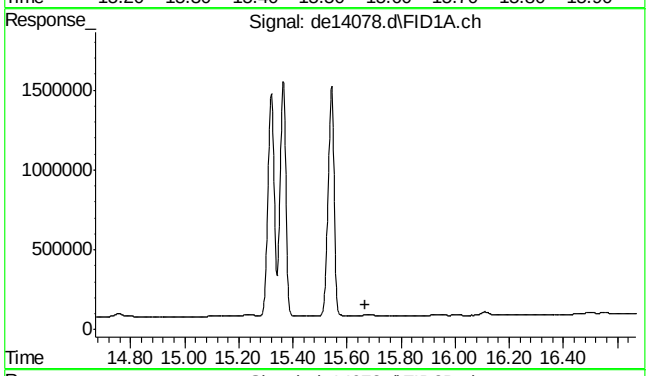
9

SGS ACCUTEST MC45799



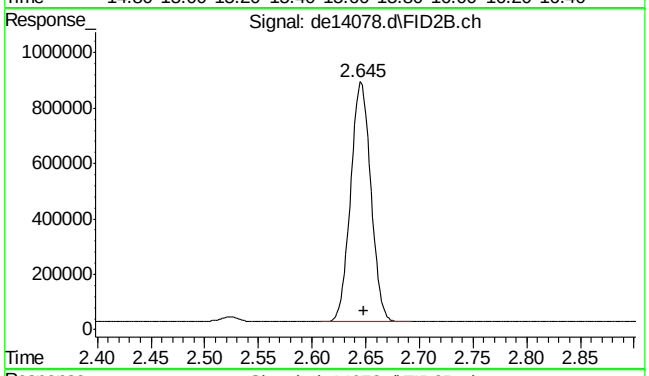
#21 benzo(ghi)perylene

R.T.: 15.543 min
Delta R.T.: -0.007 min
Response: 2217464
Conc: 24.07 µg/ml



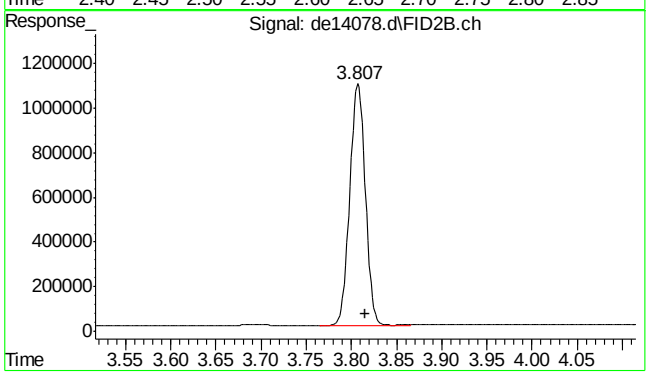
#22 bht

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



#25 c-9

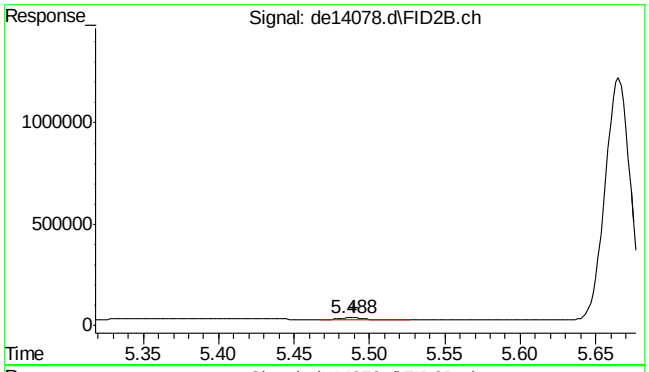
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 1133643
Conc: 15.35 µg/ml m



#26 c-10

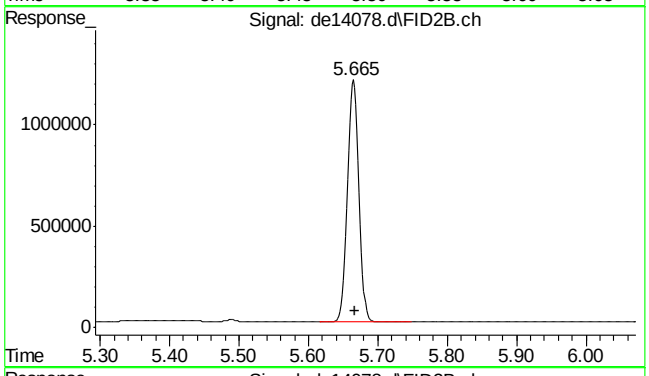
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1304107
Conc: 17.65 µg/ml

SGS ACCUTEST MC45799



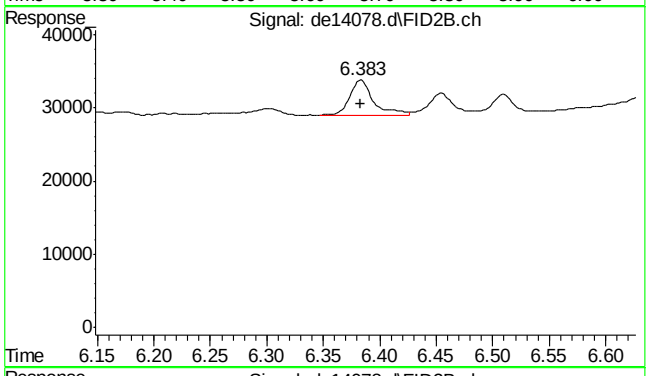
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 10910
Conc: 0.14 µg/ml



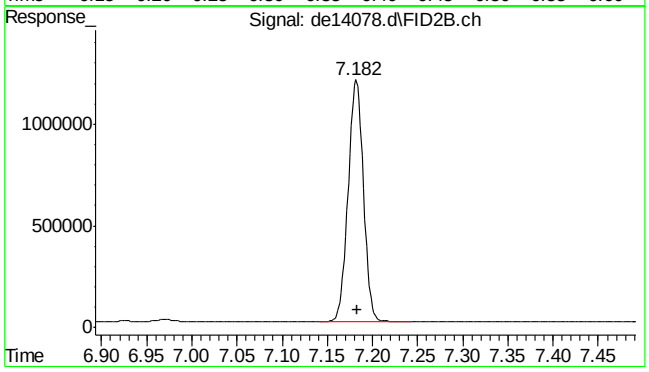
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.002 min
Response: 1389009
Conc: 18.80 µg/ml



#29 2-methylnaphthalene #2

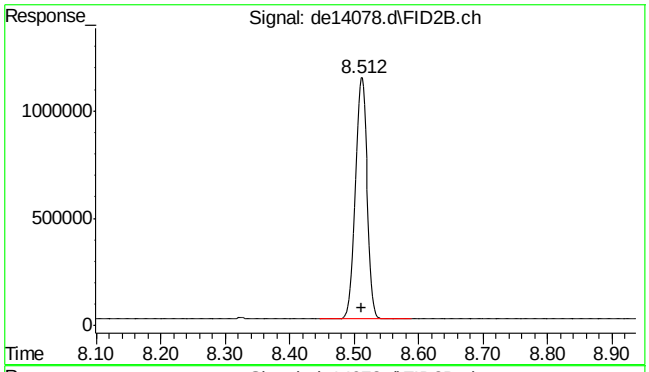
R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 7125
Conc: 0.09 µg/ml



#30 c-14

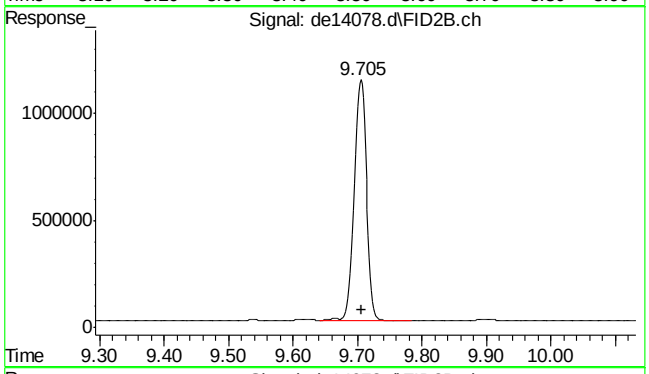
R.T.: 7.182 min
Delta R.T.: -0.002 min
Response: 1402233
Conc: 18.98 µg/ml

SGS ACCUTEST MC45799



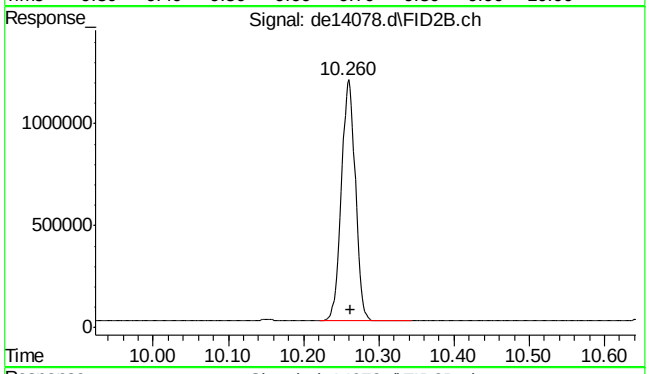
#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 1425756
Conc: 19.30 µg/ml



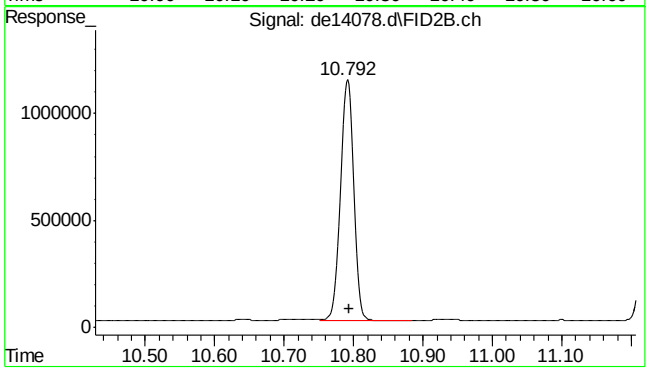
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 1501138
Conc: 20.32 µg/ml



#33 c-19

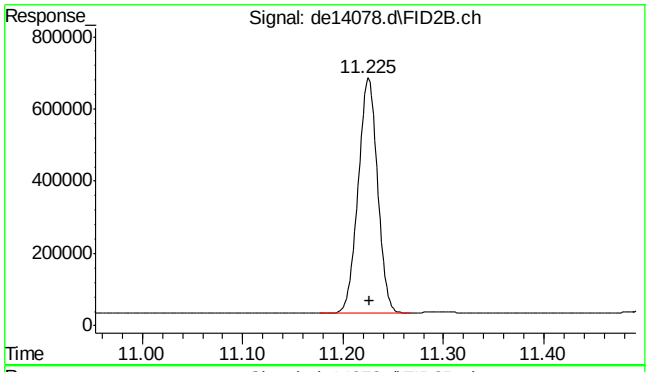
R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 1523374
Conc: 22.80 µg/ml



#34 c-20

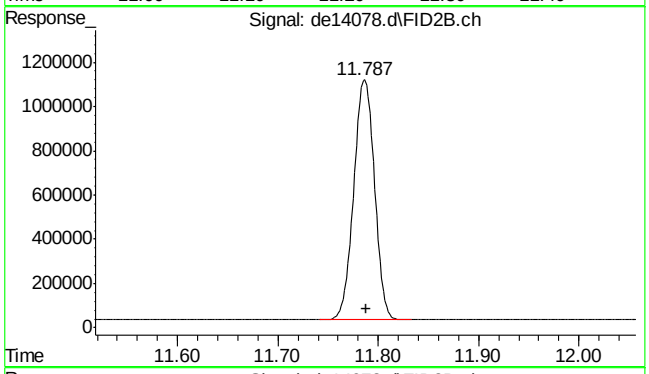
R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1533945
Conc: 22.96 µg/ml

SGS ACCUTEST MC45799



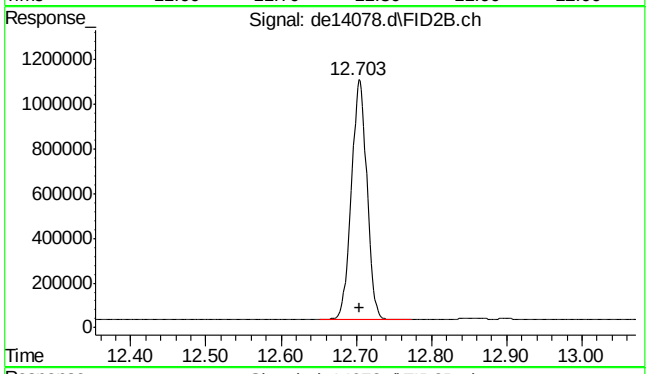
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.002 min
Response: 866684
Conc: 15.32 µg/ml



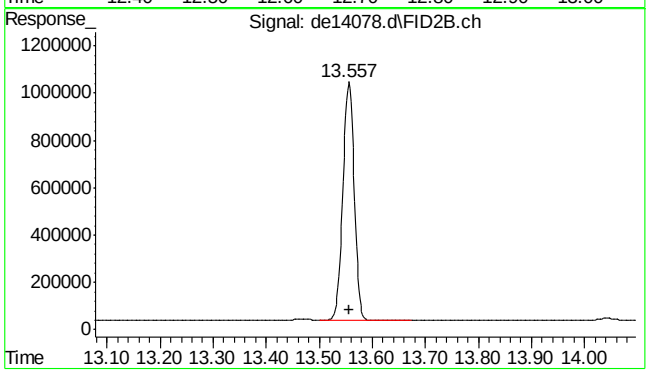
#36 c-22

R.T.: 11.787 min
Delta R.T.: -0.002 min
Response: 1550201
Conc: 23.20 µg/ml



#37 c-24

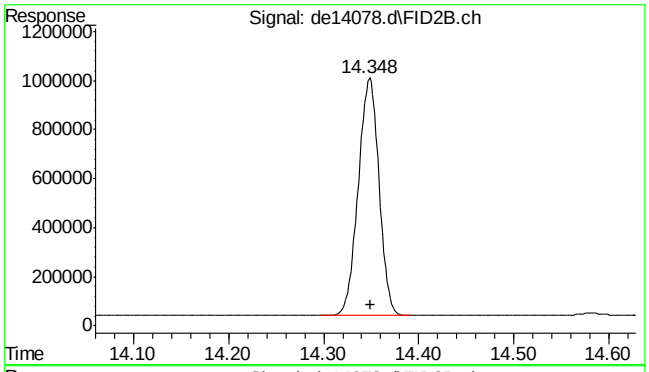
R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1535101
Conc: 22.98 µg/ml



#38 c-26

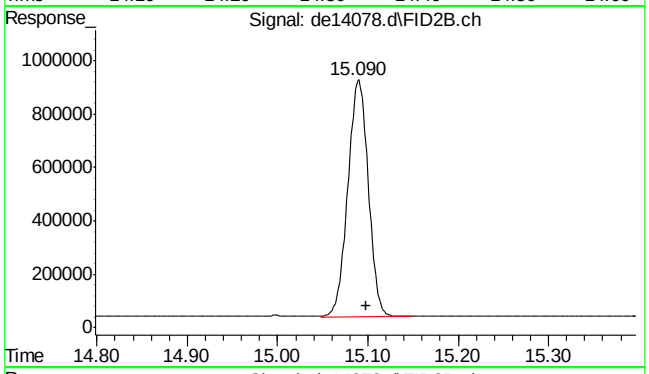
R.T.: 13.557 min
Delta R.T.: 0.000 min
Response: 1503263
Conc: 22.50 µg/ml

SGS ACCUTEST MC45799



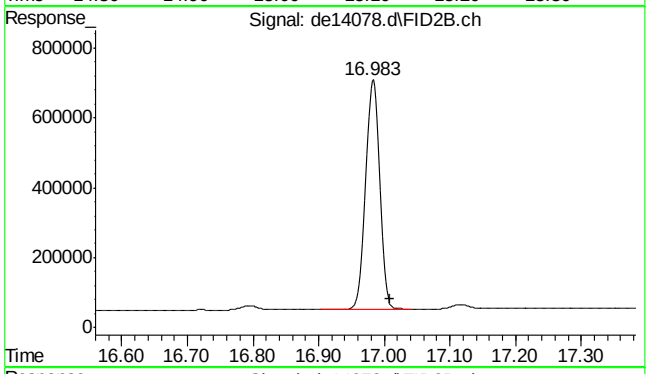
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.002 min
Response: 1466955
Conc: 21.96 µg/ml



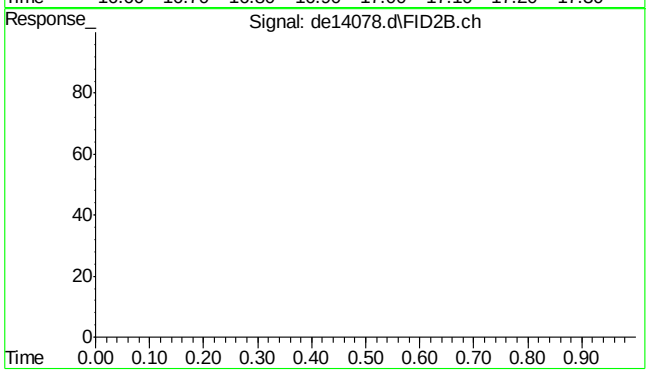
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1401952
Conc: 20.99 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 967669
Conc: 14.48 µg/ml m



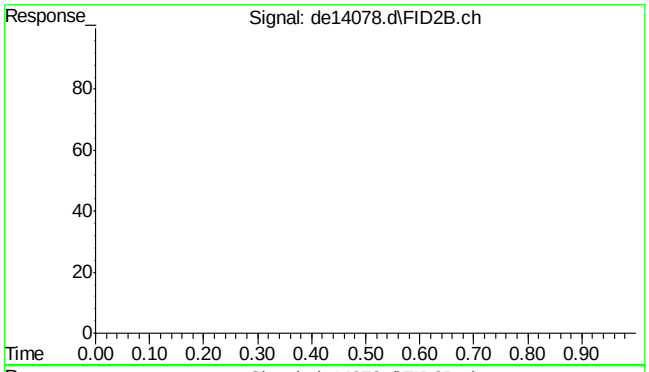
#42 bht

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

9.3.1

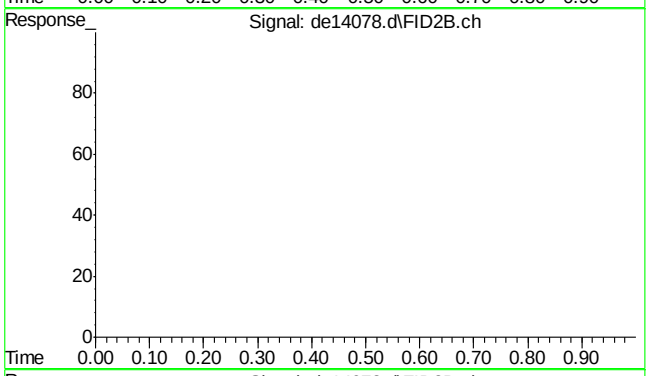
9

SGS ACCUTEST MC45799



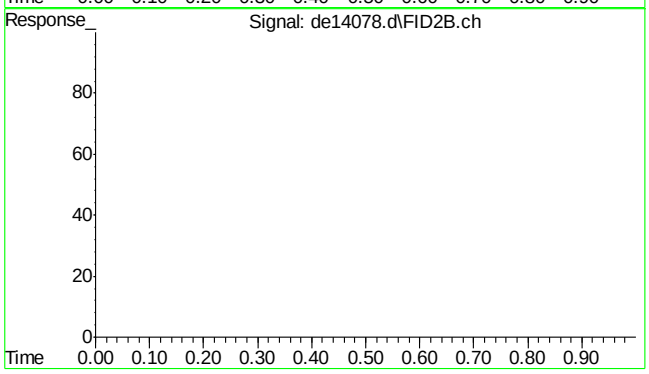
#43 bht

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 MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14079.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:39 am
Operator : thomasa
Sample : op47446-bsd
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:57:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.603	1614219	17.502 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.51%#	
6) s 2-bromonaphthalene	7.332	1063323	16.944 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 84.72%#	
11) s o-terphenyl	9.868	1968163	19.215 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 96.08%#	
35) s 1-chlorooctadecane	11.223	931945	16.473 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.36%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.203	40272130	410.084 µg/mlm
2) naphthalene	5.152	1880421	18.232 µg/ml
3) 2-methylnaphthalene	6.050	1891995	18.462 µg/ml
5) acenaphthylene	7.163	1893198	18.819 µg/ml
7) acenaphthene	7.403	2142691	20.727 µg/ml
8) fluorene	8.048	2027896	19.966 µg/ml
9) phenanthrene	9.228	2086341	20.502 µg/ml
10) anthracene	9.285	2220887	22.894 µg/ml
12) fluoranthene	10.732	2257875	22.592 µg/ml
13) pyrene	10.988	2274824	22.420 µg/ml
14) benzo(a)anthracene	12.552	2278809	23.572 µg/ml
15) chrysene	12.598	2284204	23.466 µg/ml
16) benzo(B)fluoranthene	13.847	2335345	23.589 µg/ml
17) benzo(k)fluoranthene	13.877	2209465	23.380 µg/ml
18) benzo(a)pyrene	14.182	2237039	24.201 µg/ml
19) indeno(1,2,3-cd)pyrene	15.322	2272496	24.007 µg/ml
20) dibenzo(ah)anthracene	15.365	2218099	24.268 µg/ml
21) benzo(ghi)perylene	15.542	2265397	24.591 µg/ml
25) h c-9	2.648	1138208	15.408 µg/mlm
26) h c-10	3.815	1324134	17.925 µg/ml
27) naphthalene #2	5.488	7175	0.090 µg/ml
28) c-12	5.665	1418752	19.206 µg/ml
29) 2-methylnaphthalene #2	6.382	5836	0.072 µg/ml
30) c-14	7.182	1443293	19.538 µg/ml
31) c-16	8.510	1508757	20.424 µg/ml
32) c-18	9.705	1630826	22.076 µg/ml
33) c-19	10.260	1657958	24.817 µg/ml
34) c-20	10.790	1678169	25.120 µg/ml
36) c-22	11.785	1711251	25.615 µg/ml
37) c-24	12.703	1703072	25.493 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14079.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:39 am
Operator : thomasa
Sample : op47446-bsd
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:57:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	13.555	1668666	24.978	µg/ml
39)		c-28	14.348	1632960	24.443	µg/ml
40)	h	c-30	15.098	1518656	22.732	µg/ml
41)	h	c-36	17.008	766074	11.467	µg/mlm

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

9.3.2

9

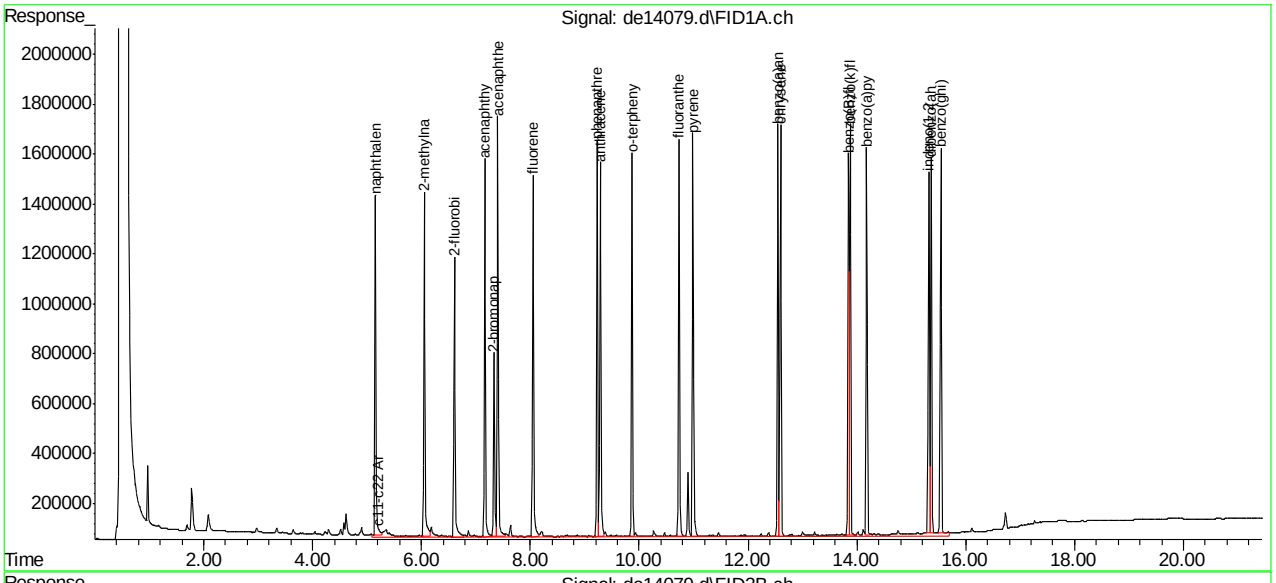
SGS ACCUTEST MC45799

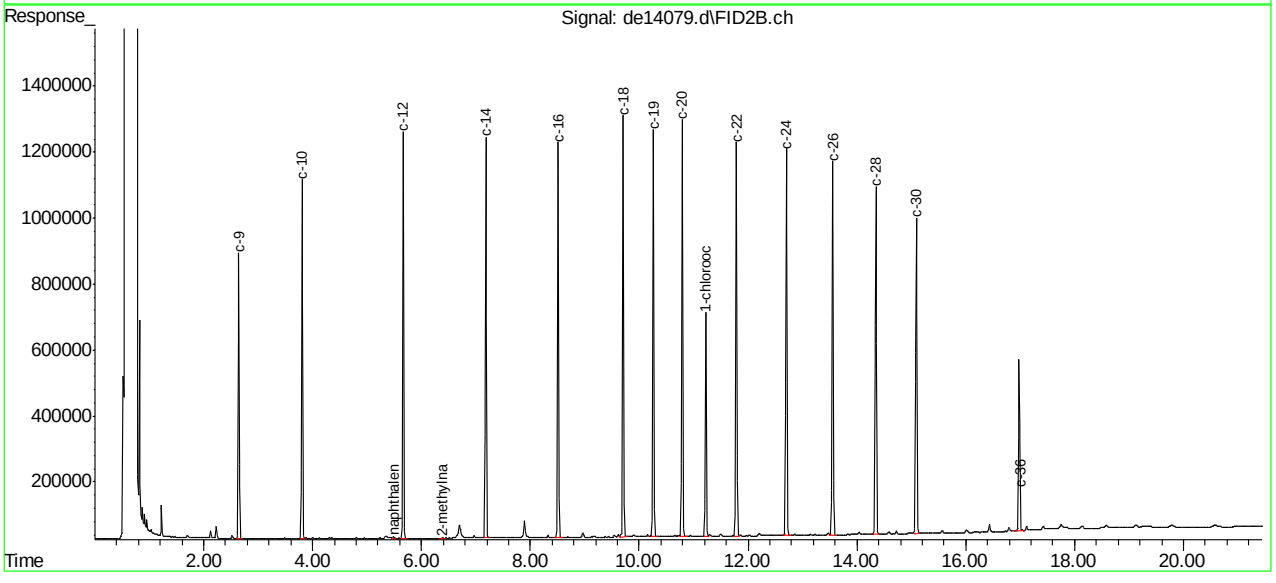
Quantitation Report (QT Reviewed)

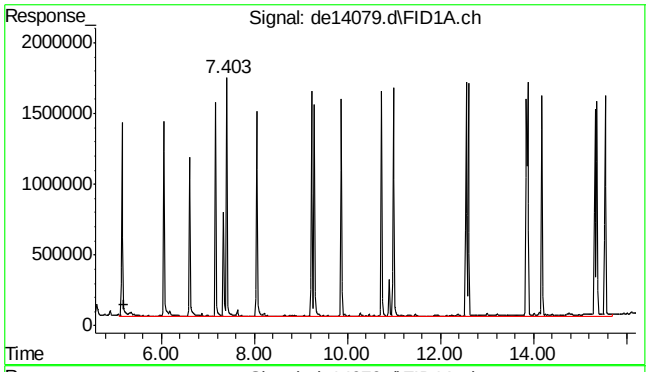
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14079.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 10:39 am
Operator : thomasa
Sample : op47446-bsd
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 11:57:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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

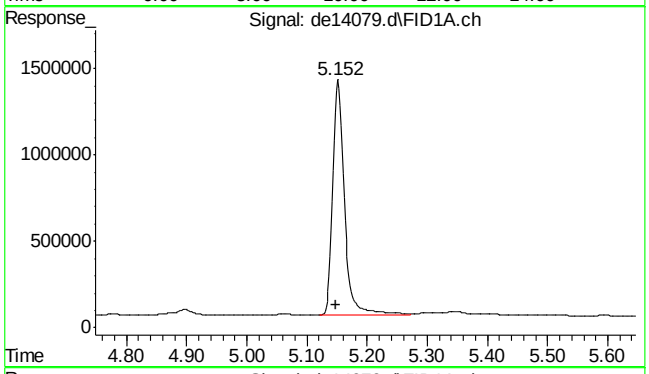






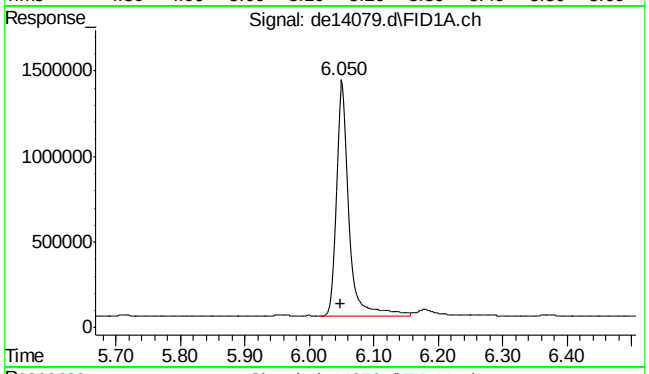
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.203 min
Delta R.T.: 0.000 min
Response: 40272130
Conc: 410.08 µg/ml m



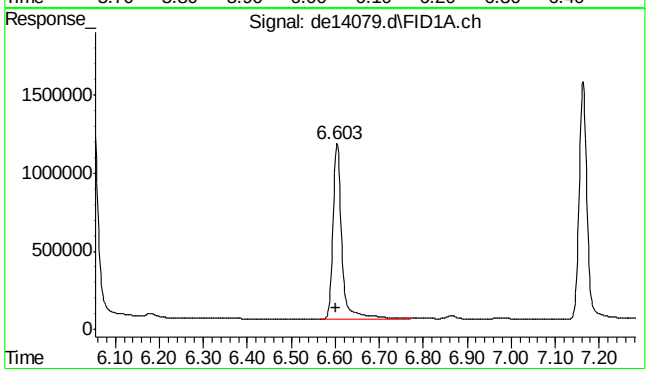
#2 naphthalene

R.T.: 5.152 min
Delta R.T.: 0.003 min
Response: 1880421
Conc: 18.23 µg/ml



#3 2-methylnaphthalene

R.T.: 6.050 min
Delta R.T.: 0.002 min
Response: 1891995
Conc: 18.46 µg/ml



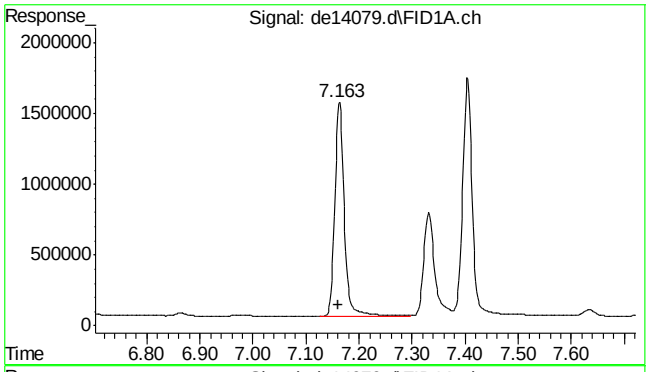
#4 2-fluorobiphenyl

R.T.: 6.603 min
Delta R.T.: 0.002 min
Response: 1614219
Conc: 17.50 µg/ml

9.3.2

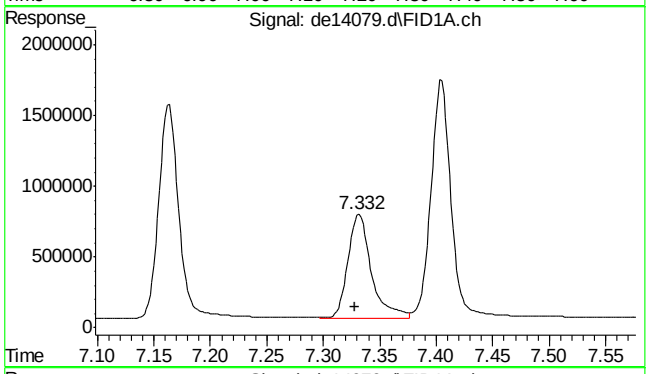
9

SGS ACCUTEST MC45799



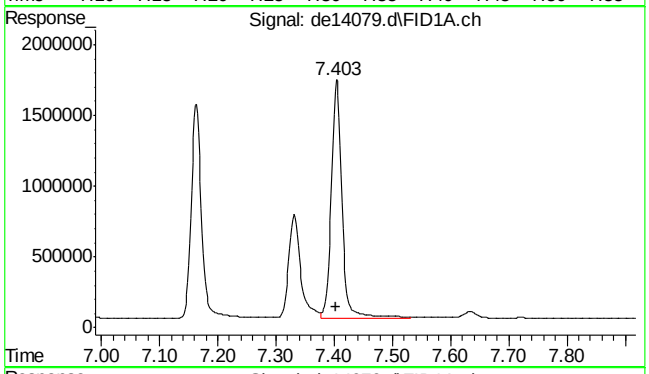
#5 acenaphthylene

R.T.: 7.163 min
Delta R.T.: 0.002 min
Response: 1893198
Conc: 18.82 µg/ml



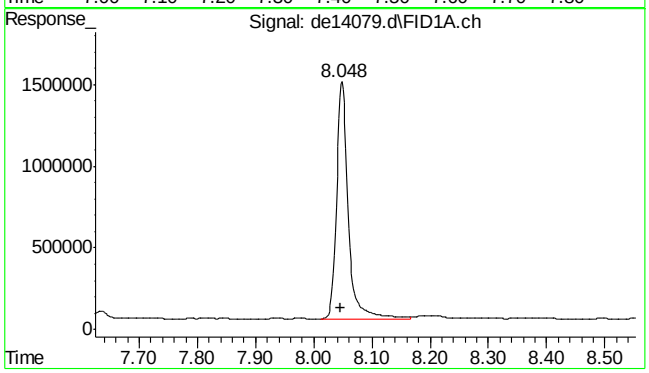
#6 2-bromonaphthalene

R.T.: 7.332 min
Delta R.T.: 0.003 min
Response: 1063323
Conc: 16.94 µg/ml



#7 acenaphthene

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 2142691
Conc: 20.73 µg/ml



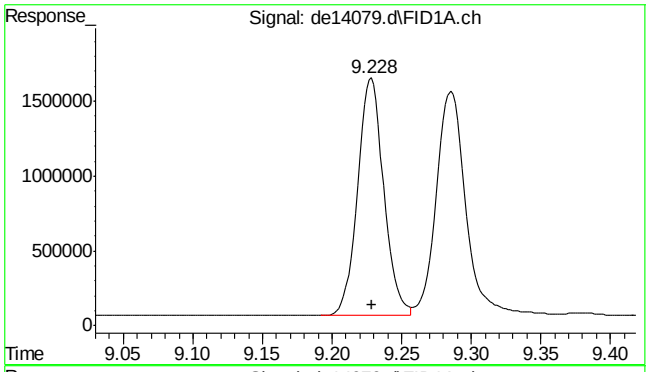
#8 fluorene

R.T.: 8.048 min
Delta R.T.: 0.002 min
Response: 2027896
Conc: 19.97 µg/ml

9.3.2

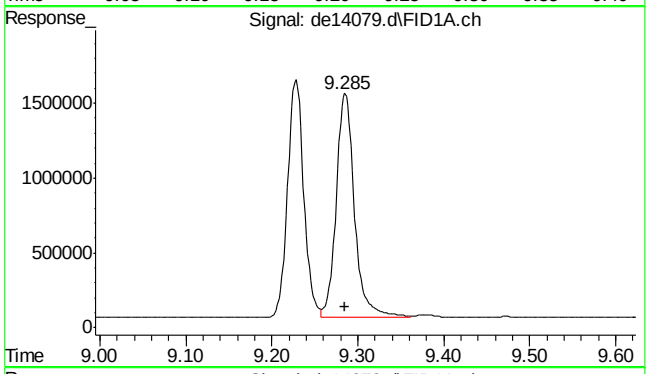
9

SGS ACCUTEST MC45799



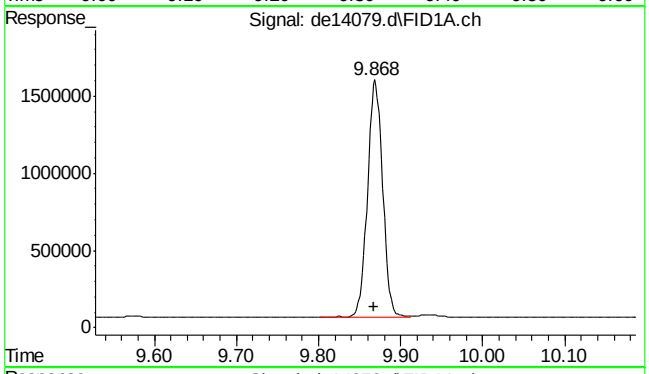
#9 phenanthrene

R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 2086341
Conc: 20.50 µg/ml



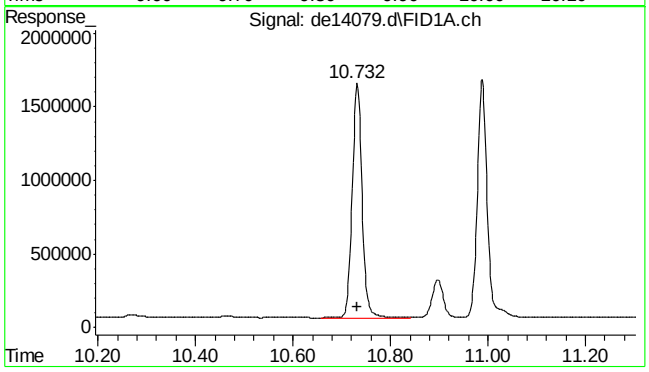
#10 anthracene

R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 2220887
Conc: 22.89 µg/ml



#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: 0.000 min
Response: 1968163
Conc: 19.22 µg/ml



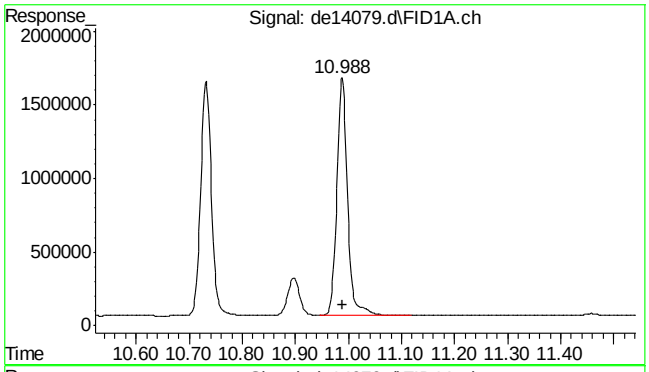
#12 fluoranthene

R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 2257875
Conc: 22.59 µg/ml

9.3.2

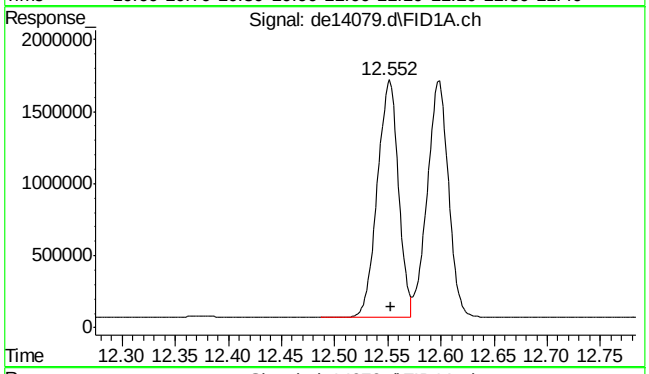
9

SGS ACCUTEST MC45799



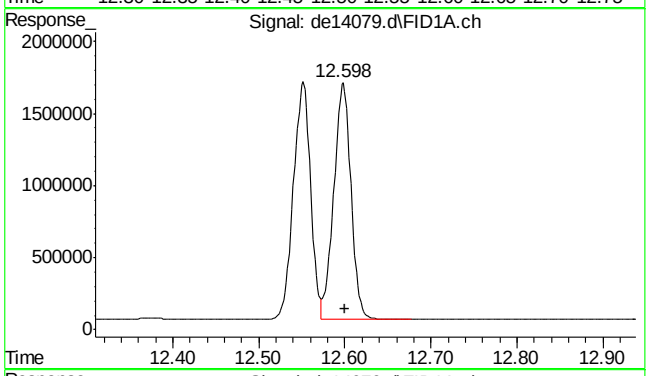
#13 pyrene

R.T.: 10.988 min
Delta R.T.: 0.000 min
Response: 2274824
Conc: 22.42 µg/ml



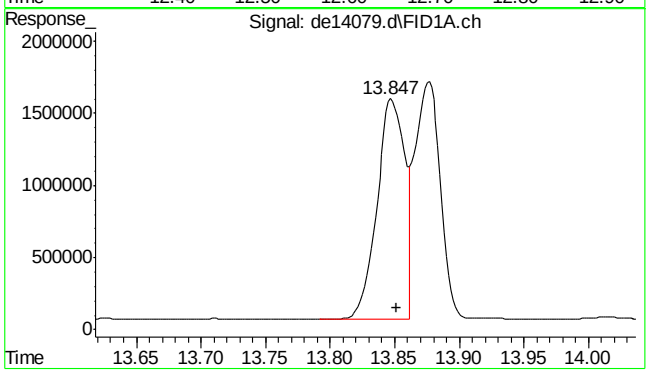
#14 benzo(a)anthracene

R.T.: 12.552 min
Delta R.T.: -0.002 min
Response: 2278809
Conc: 23.57 µg/ml



#15 chrysene

R.T.: 12.598 min
Delta R.T.: -0.002 min
Response: 2284204
Conc: 23.47 µg/ml



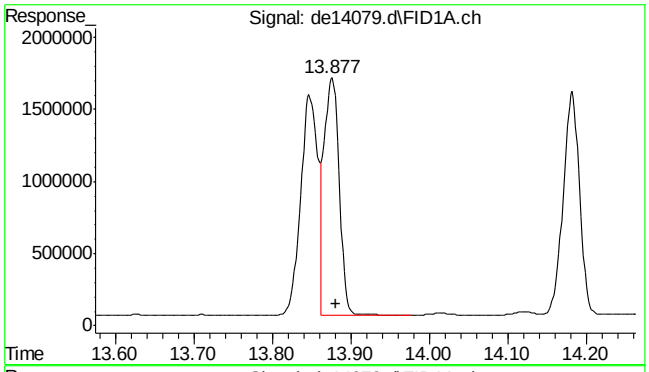
#16 benzo(B)fluoranthene

R.T.: 13.847 min
Delta R.T.: -0.005 min
Response: 2335345
Conc: 23.59 µg/ml

9.3.2

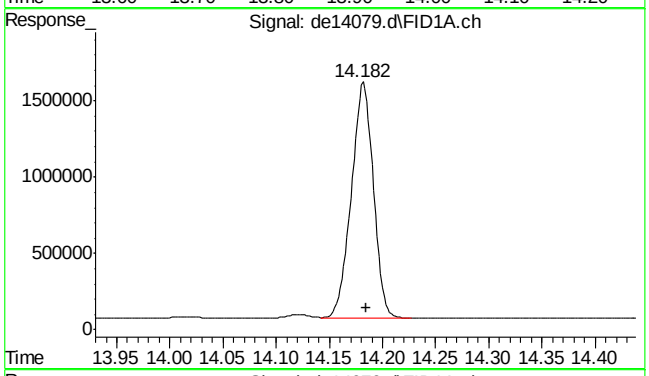
9

SGS ACCUTEST MC45799



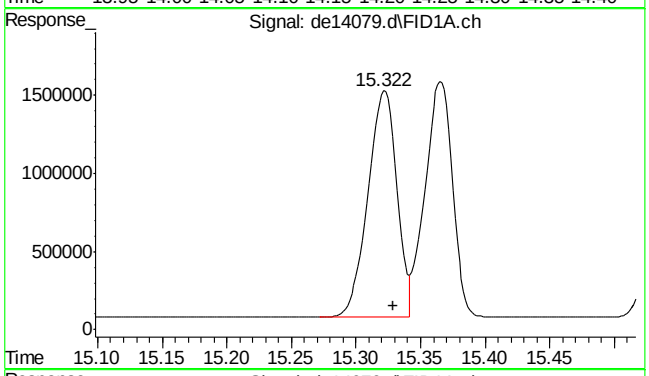
#17 benzo(k)fluoranthene

R.T.: 13.877 min
Delta R.T.: -0.005 min
Response: 2209465
Conc: 23.38 µg/ml



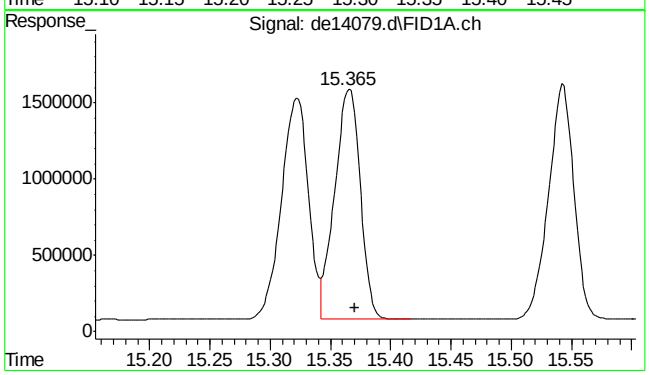
#18 benzo(a)pyrene

R.T.: 14.182 min
Delta R.T.: -0.003 min
Response: 2237039
Conc: 24.20 µg/ml



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

R.T.: 15.322 min
Delta R.T.: -0.007 min
Response: 2272496
Conc: 24.01 µg/ml



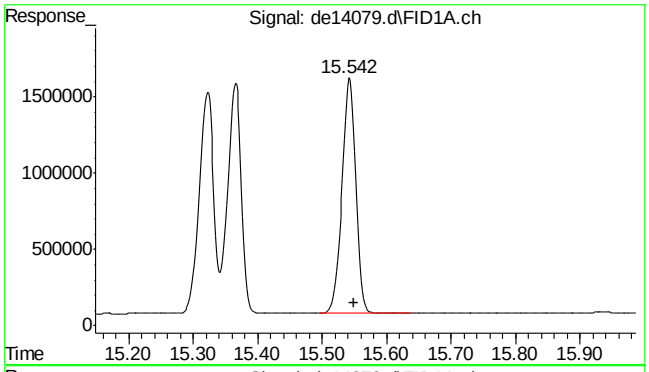
#20 dibenzo(ah)anthracene

R.T.: 15.365 min
Delta R.T.: -0.005 min
Response: 2218099
Conc: 24.27 µg/ml

9.3.2

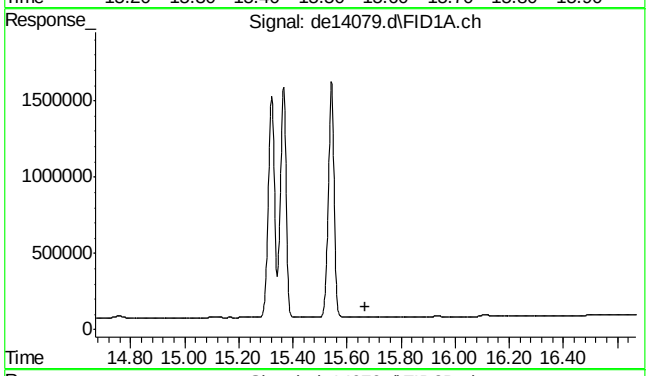
9

SGS ACCUTEST MC45799



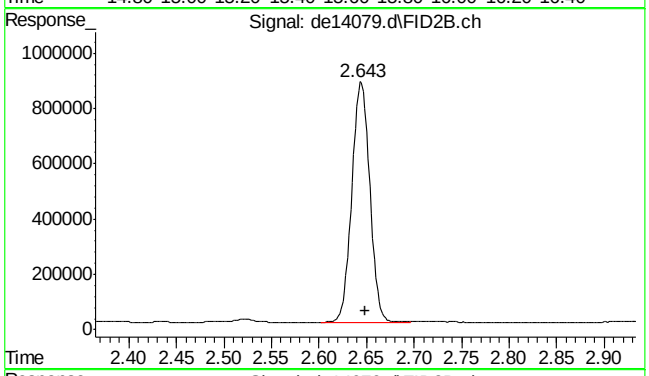
#21 benzo(ghi)perylene

R.T.: 15.542 min
Delta R.T.: -0.008 min
Response: 2265397
Conc: 24.59 µg/ml



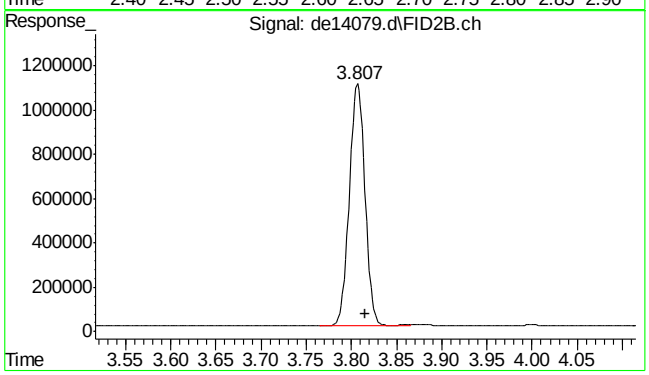
#22 bht

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: 1138208
Conc: 15.41 µg/ml m



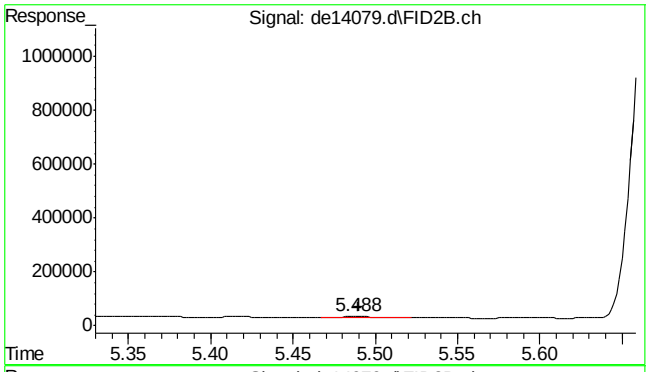
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 1324134
Conc: 17.92 µg/ml

9.3.2

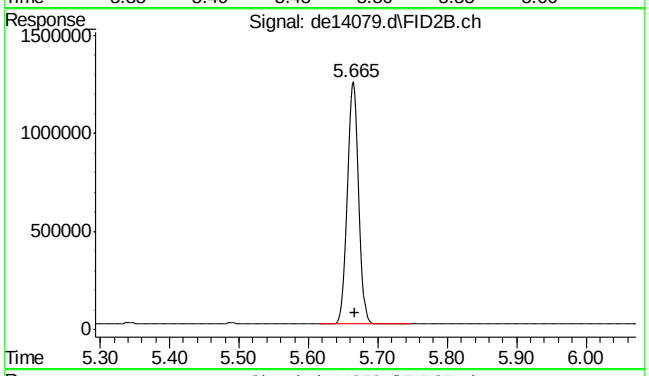
9

SGS ACCUTEST MC45799



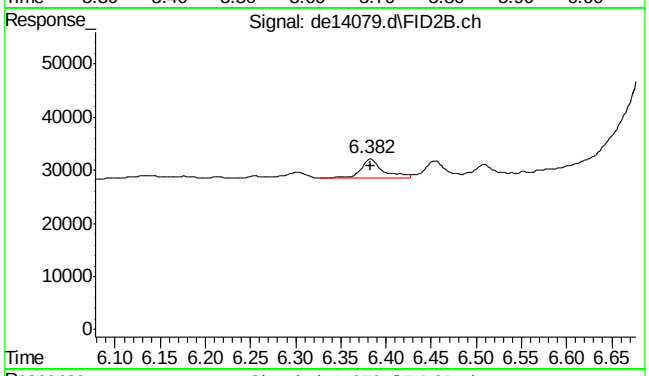
#27 naphthalene #2

R.T.: 5.488 min
Delta R.T.: -0.002 min
Response: 7175
Conc: 0.09 µg/ml



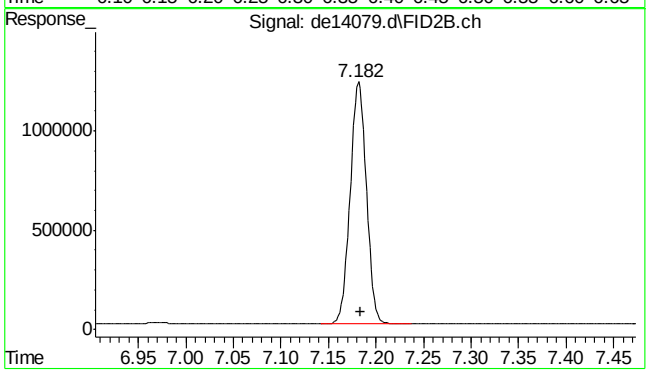
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.002 min
Response: 1418752
Conc: 19.21 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.382 min
Delta R.T.: -0.002 min
Response: 5836
Conc: 0.07 µg/ml



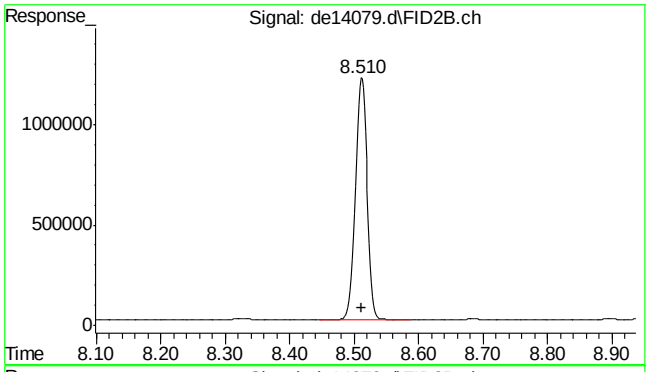
#30 c-14

R.T.: 7.182 min
Delta R.T.: -0.002 min
Response: 1443293
Conc: 19.54 µg/ml

9.3.2

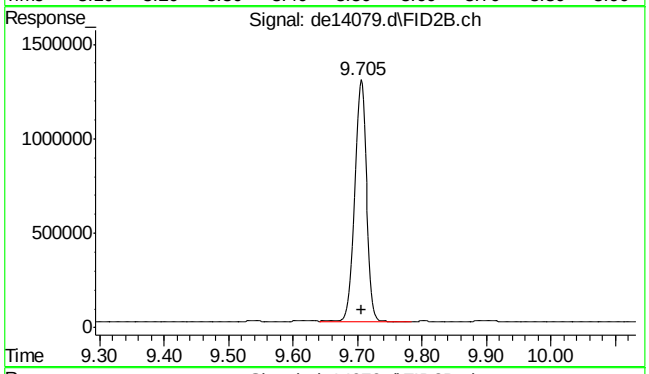
9

SGS ACCUTEST MC45799



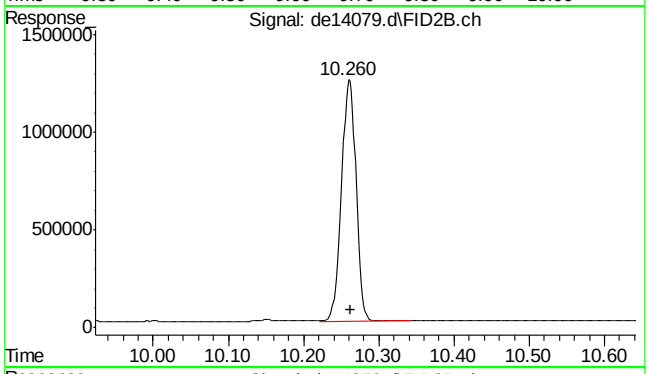
#31 c-16

R.T.: 8.510 min
Delta R.T.: -0.002 min
Response: 1508757
Conc: 20.42 µg/ml



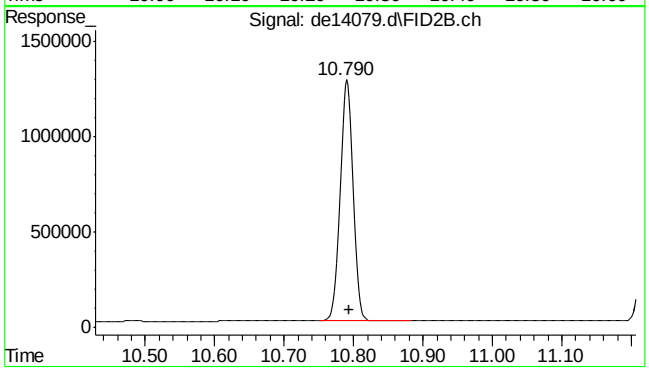
#32 c-18

R.T.: 9.705 min
Delta R.T.: -0.002 min
Response: 1630826
Conc: 22.08 µg/ml



#33 c-19

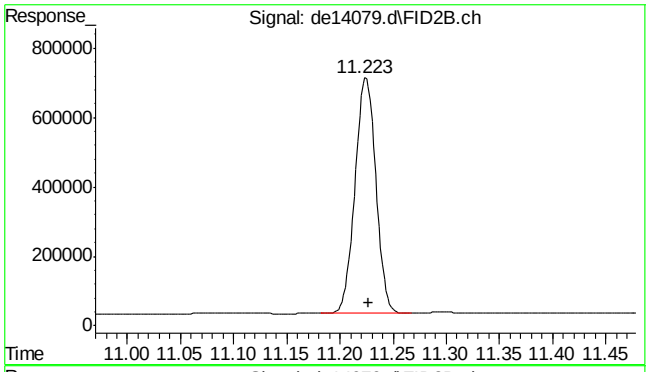
R.T.: 10.260 min
Delta R.T.: -0.002 min
Response: 1657958
Conc: 24.82 µg/ml



#34 c-20

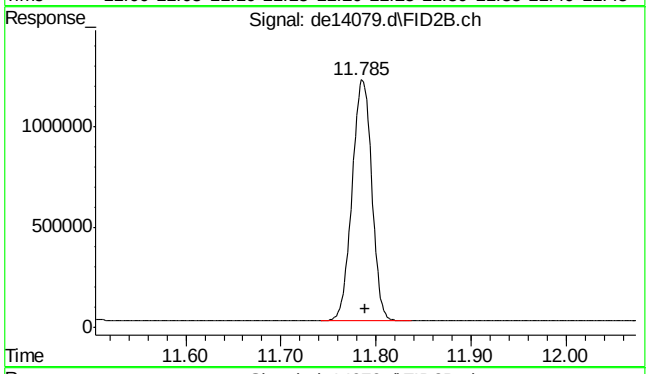
R.T.: 10.790 min
Delta R.T.: -0.003 min
Response: 1678169
Conc: 25.12 µg/ml

SGS ACCUTEST MC45799



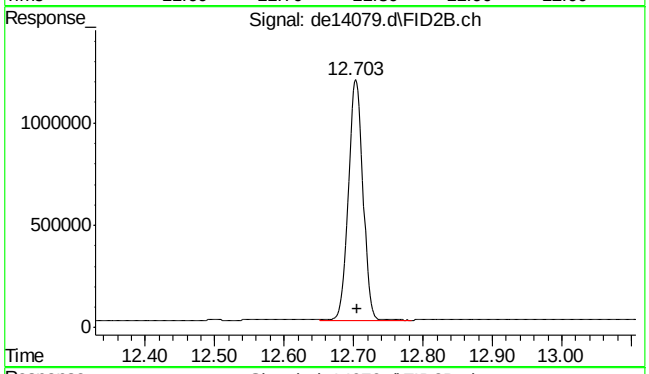
#35 1-chlorooctadecane

R.T.: 11.223 min
Delta R.T.: -0.003 min
Response: 931945
Conc: 16.47 µg/ml



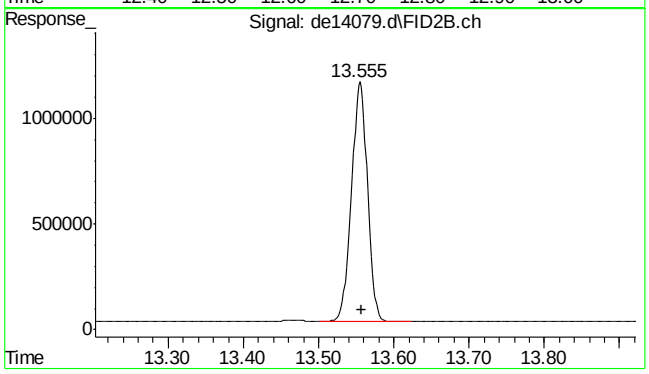
#36 c-22

R.T.: 11.785 min
Delta R.T.: -0.003 min
Response: 1711251
Conc: 25.62 µg/ml



#37 c-24

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 1703072
Conc: 25.49 µg/ml



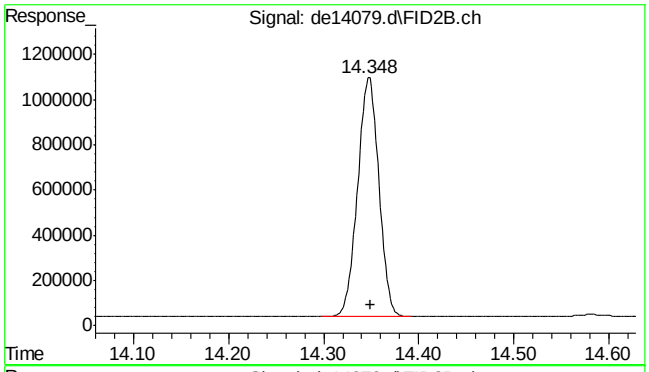
#38 c-26

R.T.: 13.555 min
Delta R.T.: -0.002 min
Response: 1668666
Conc: 24.98 µg/ml

9.3.2

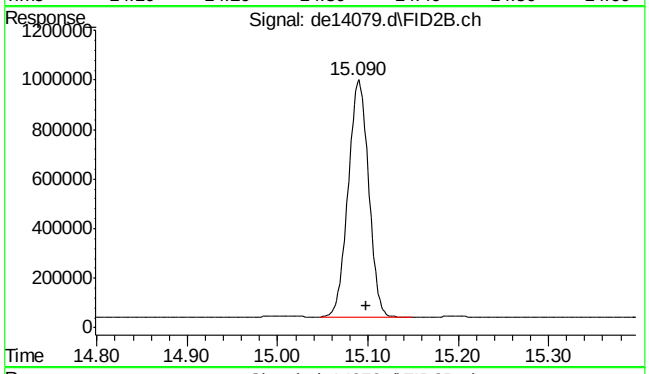
9

SGS ACCUTEST MC45799



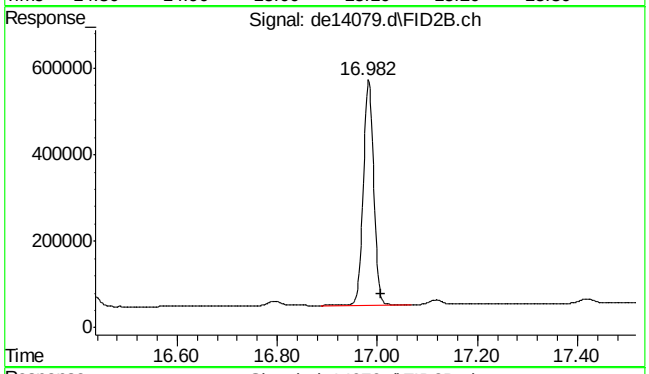
#39 c-28

R.T.: 14.348 min
Delta R.T.: -0.002 min
Response: 1632960
Conc: 24.44 µg/ml



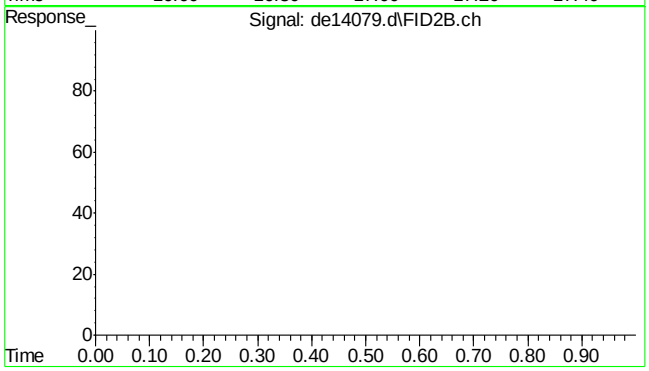
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1518656
Conc: 22.73 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 766074
Conc: 11.47 µg/ml m



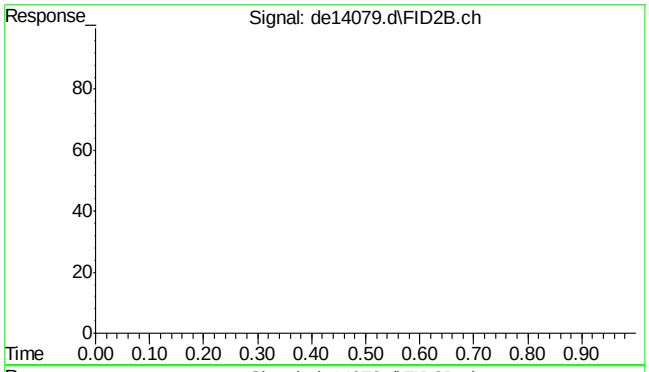
#42 bht

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

9.3.2

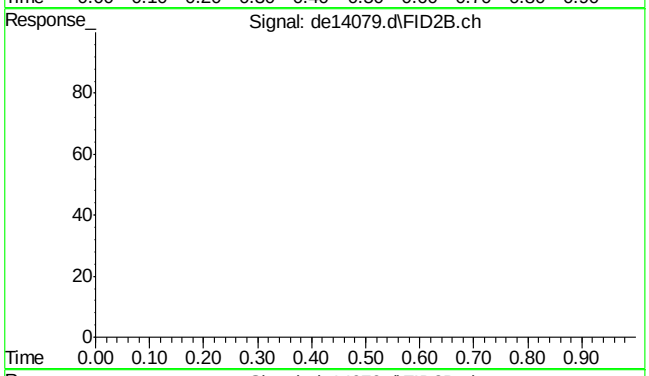
9

SGS ACCUTEST MC45799



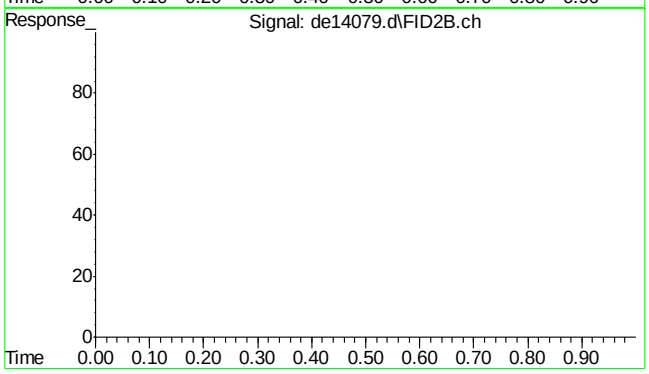
#43 bht

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 MC45799

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

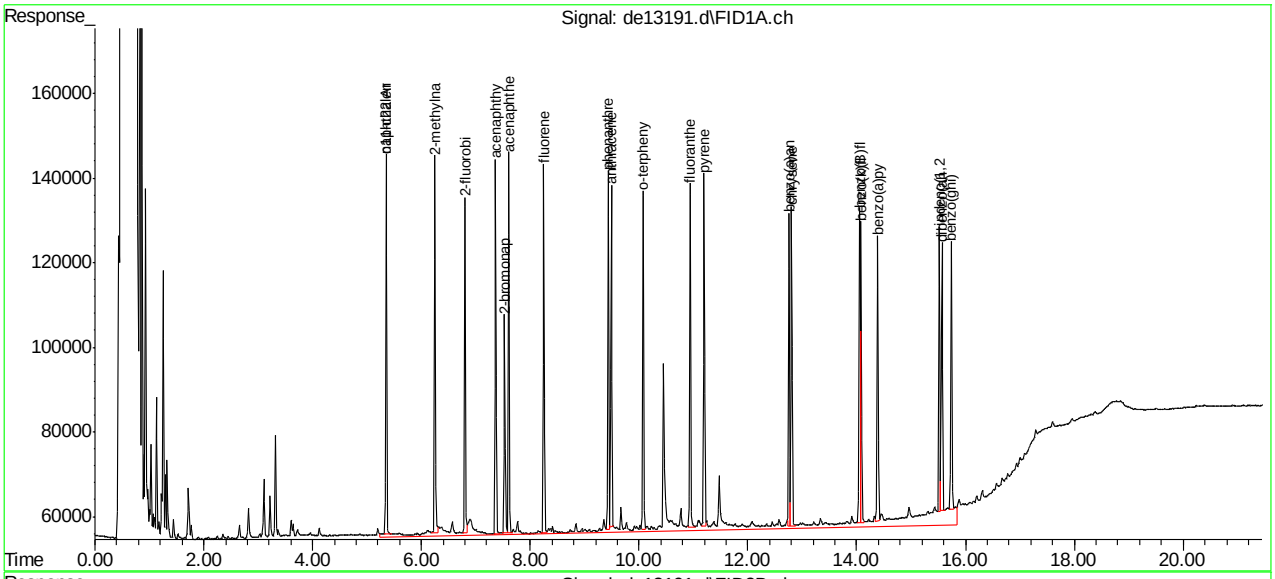
(f)=RT Delta > 1/2 Window (m)=manual int.

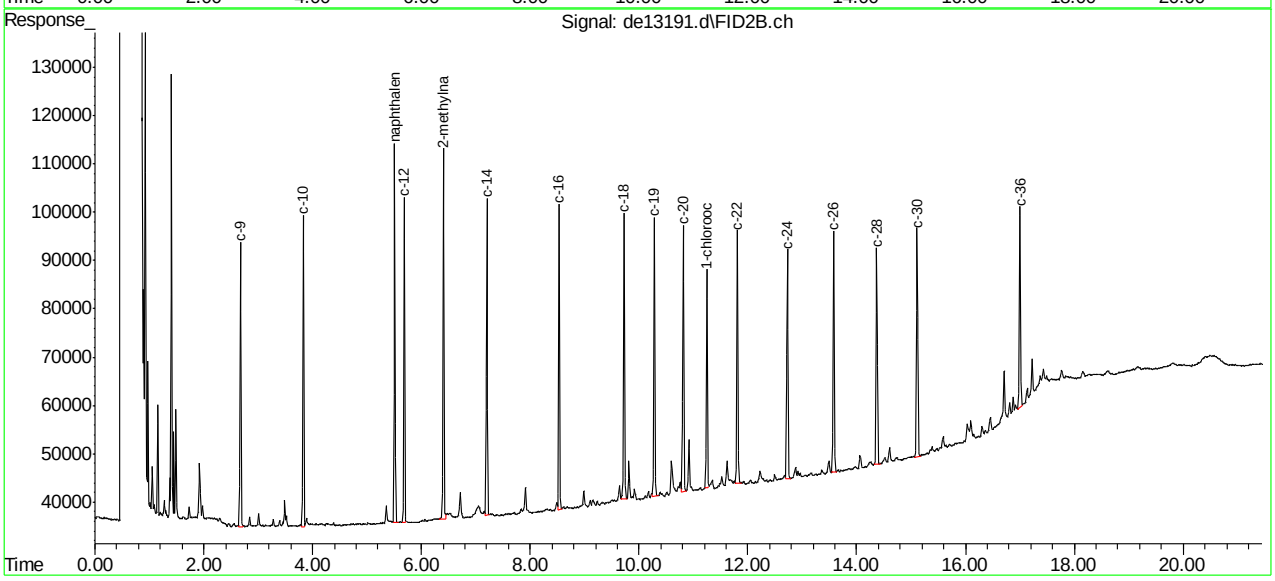
Quantitation Report (QT Reviewed)

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

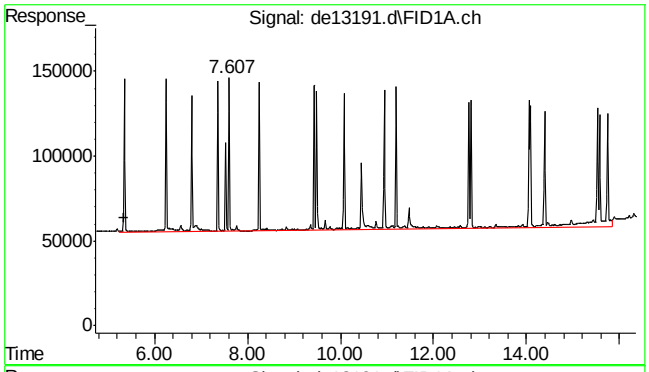
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



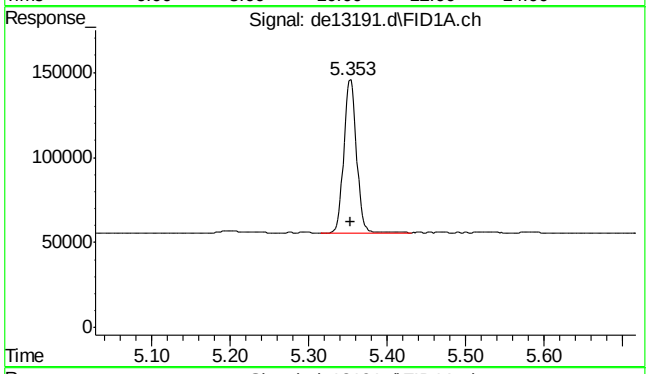


SGS ACCUTEST MC45799



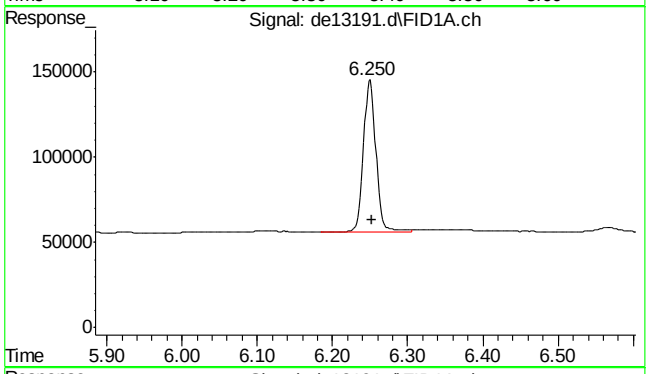
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



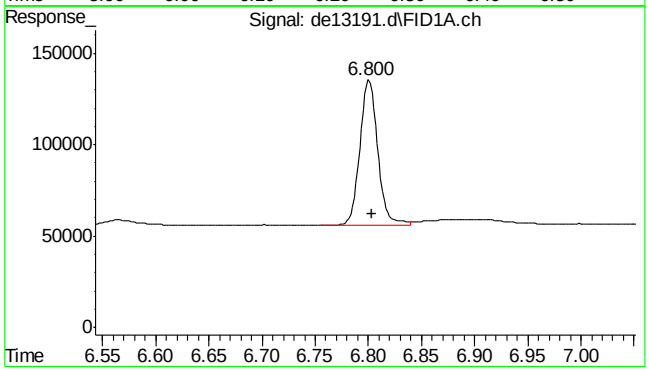
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



#3 2-methylnaphthalene

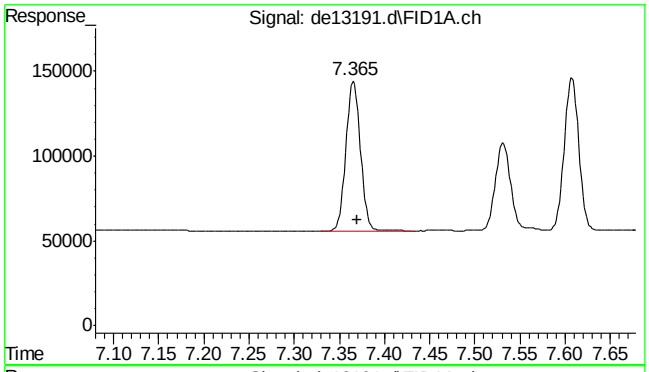
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



#4 2-fluorobiphenyl

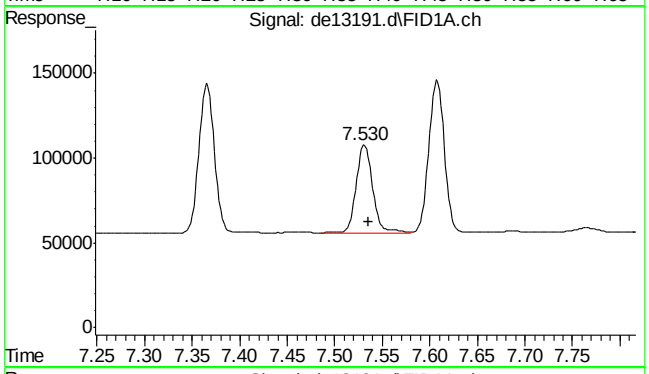
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

SGS ACCUTEST MC45799



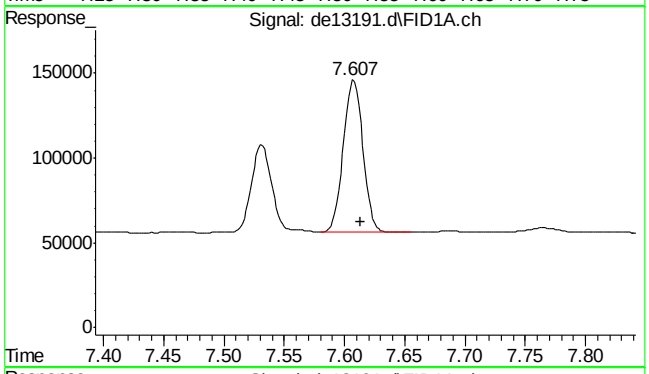
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



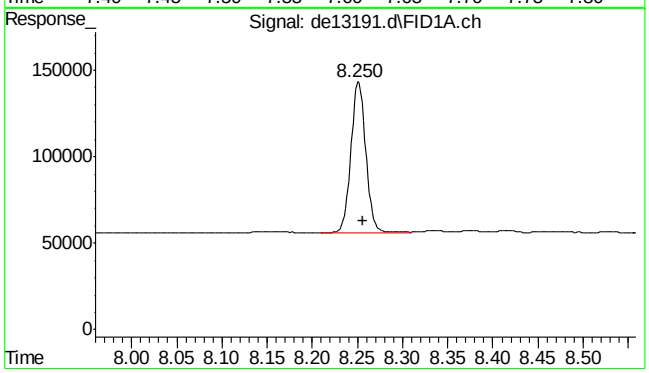
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

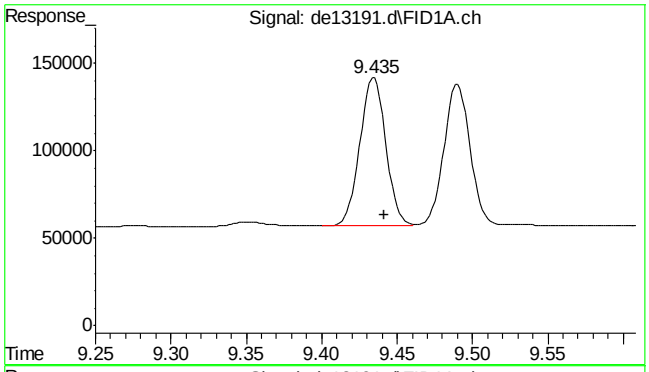
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

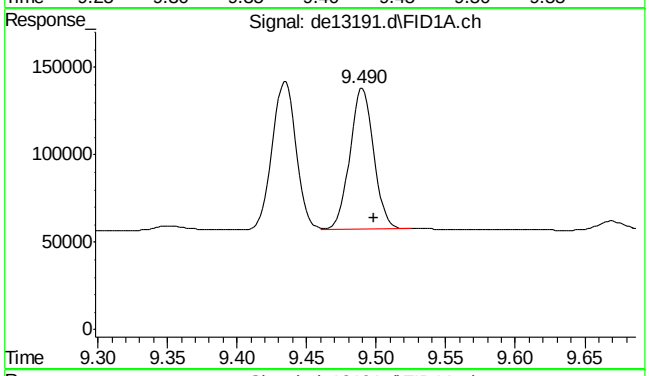
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45799



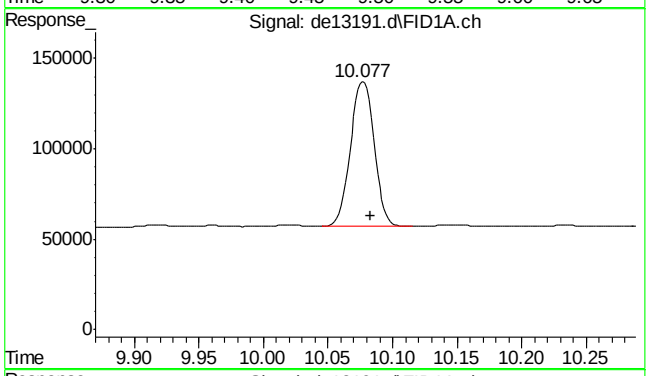
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



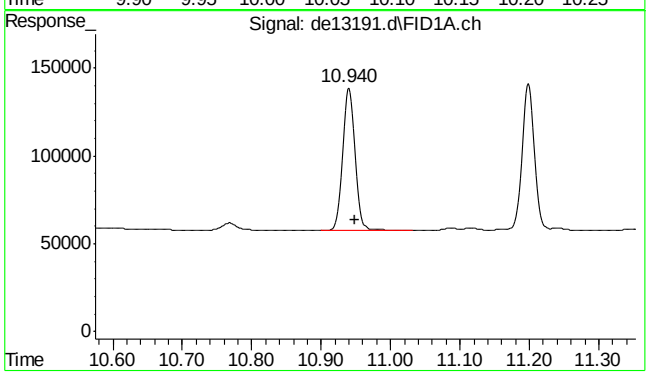
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



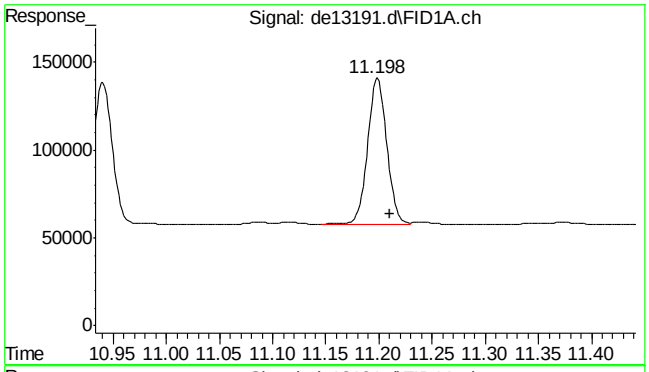
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.4.1

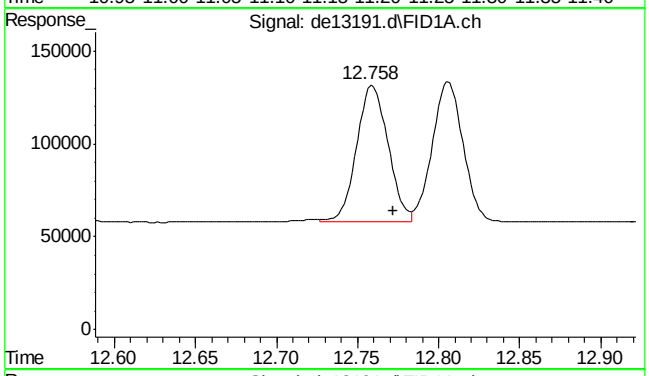
9

SGS ACCUTEST MC45799



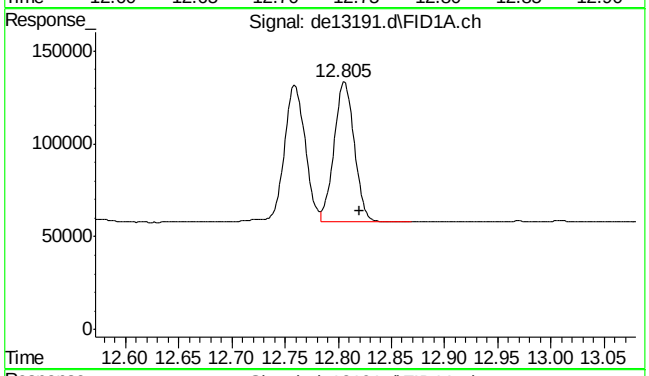
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



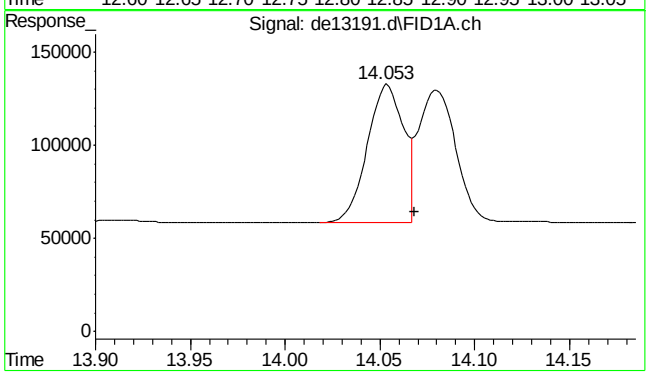
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

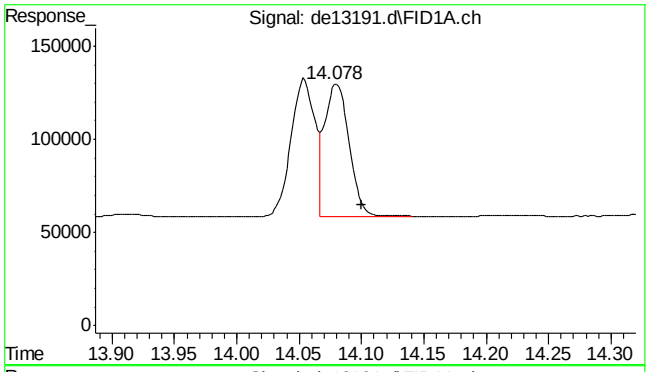
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

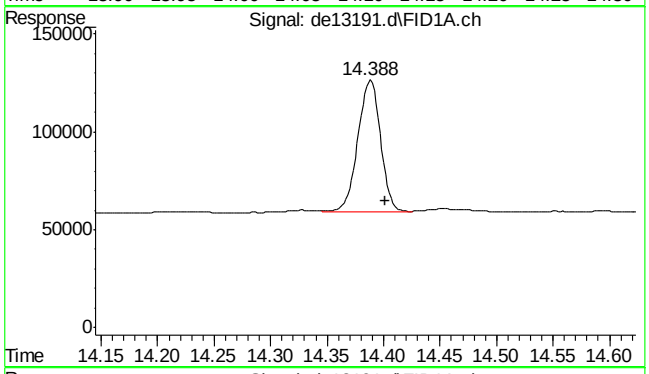
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45799



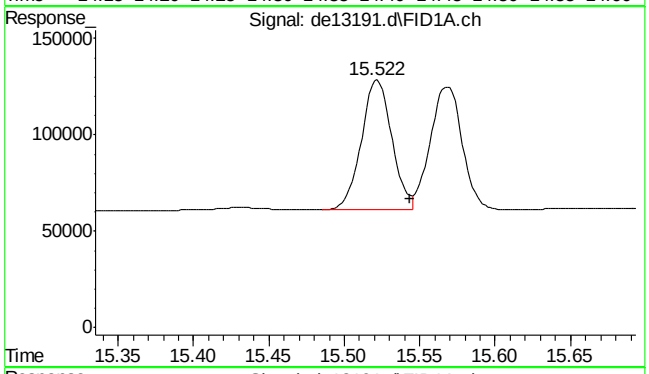
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



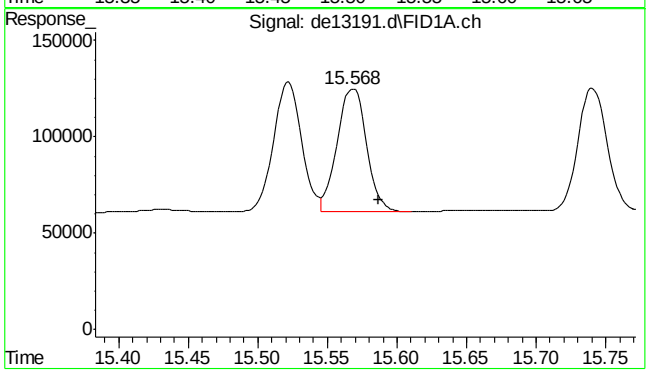
#18 benzo(a)pyrene

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

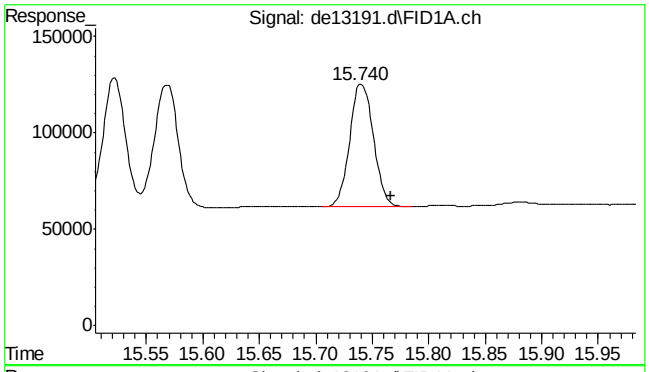
R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



#20 dibenzo(ah)anthracene

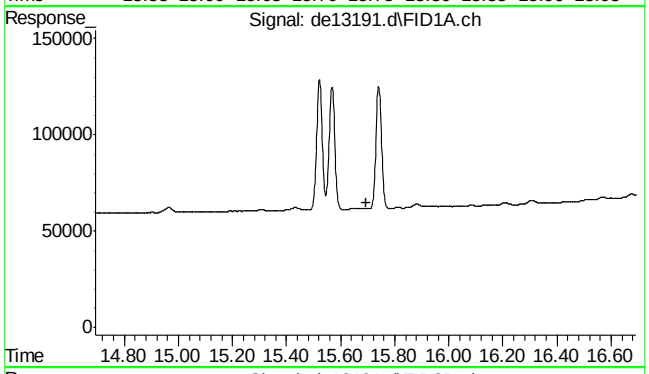
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml

SGS ACCUTEST MC45799



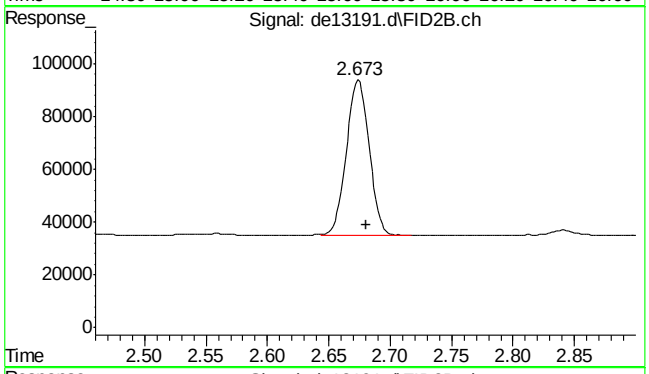
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



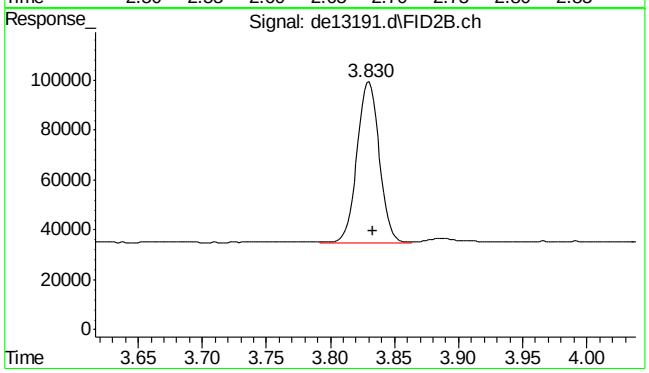
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

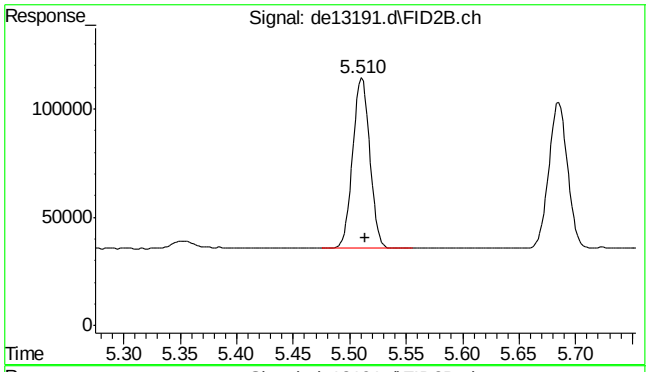
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



#26 c-10

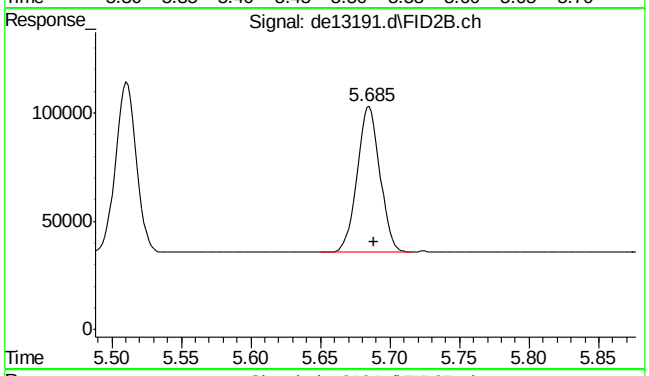
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m

SGS ACCUTEST MC45799



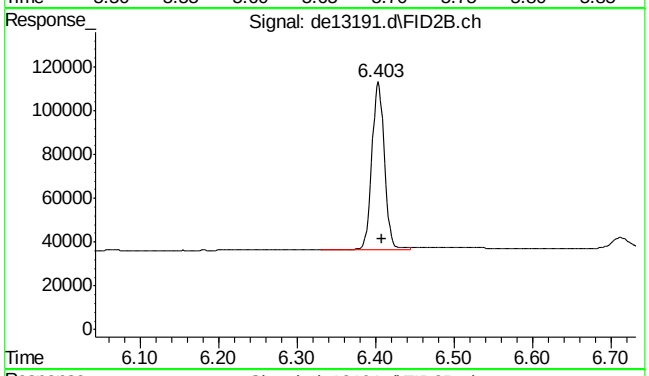
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



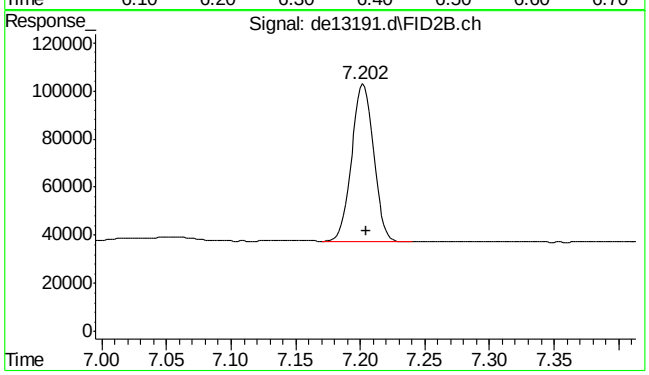
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

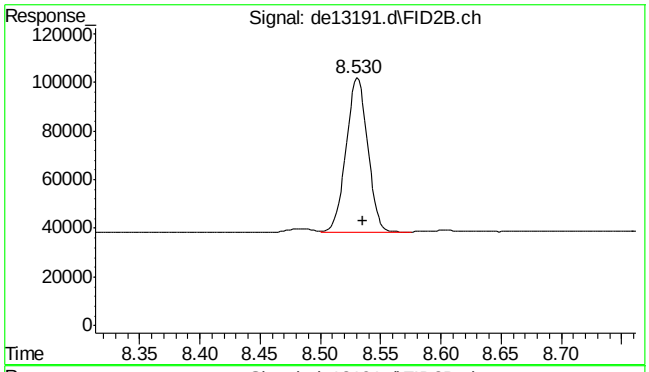
R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



#30 c-14

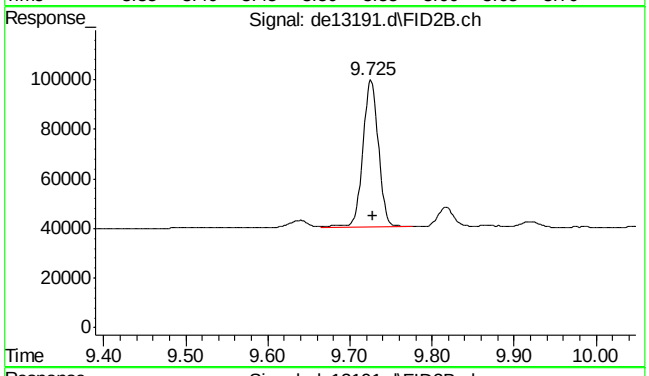
R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

SGS ACCUTEST MC45799



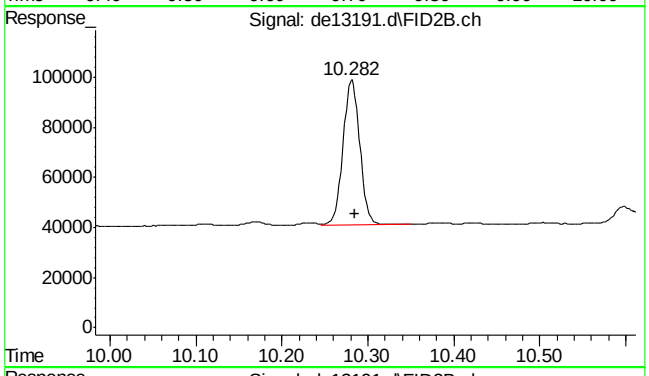
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



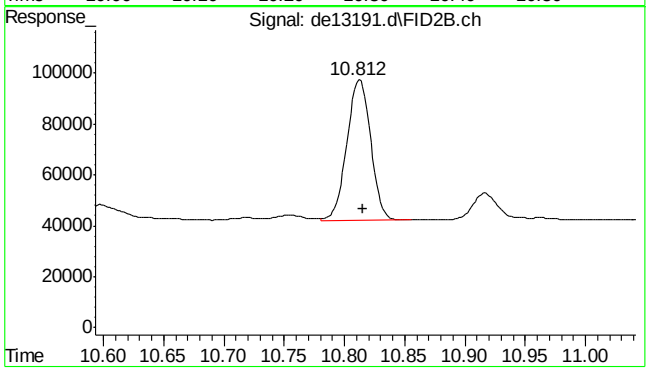
#32 c-18

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



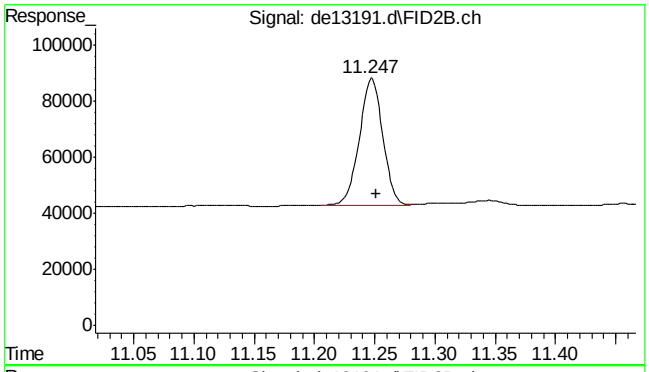
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.4.1

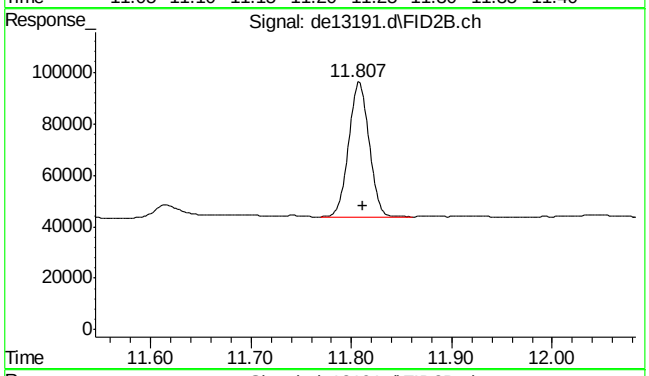
9

SGS ACCUTEST MC45799



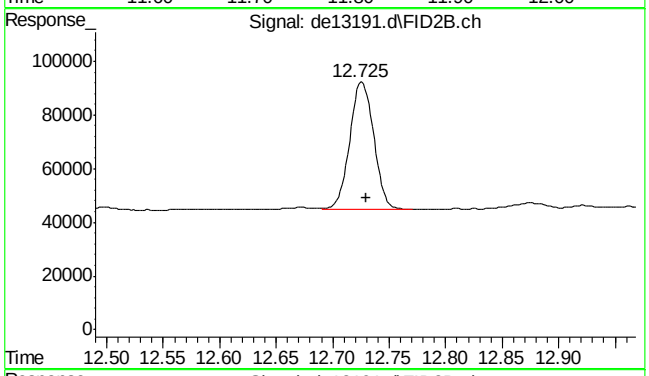
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



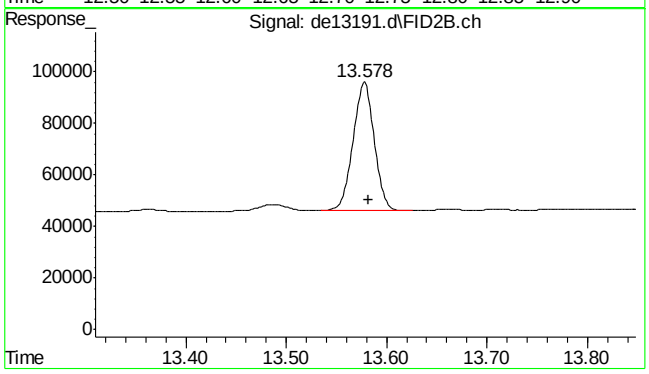
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

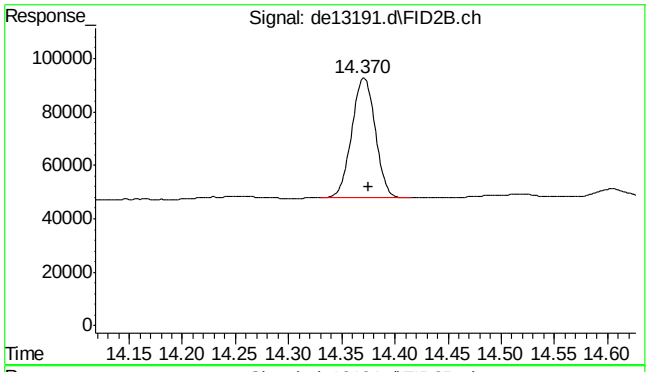
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



#38 c-26

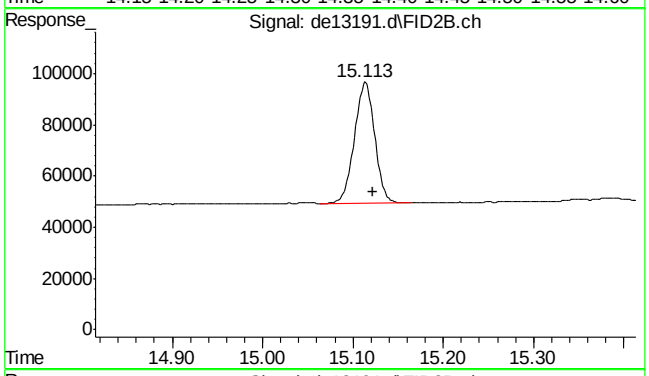
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

SGS ACCUTEST MC45799



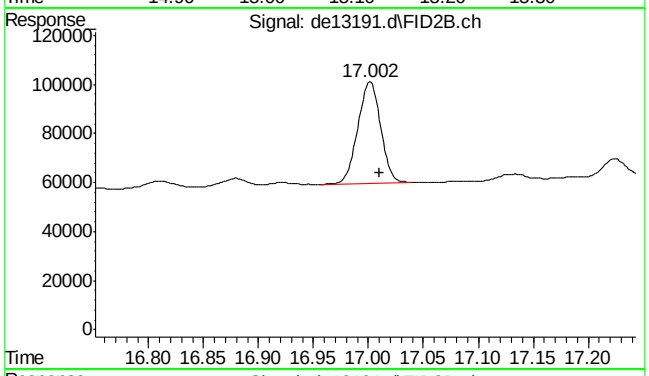
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



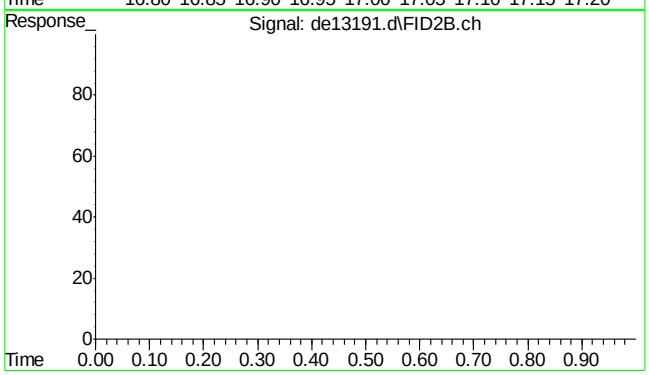
#40 c-30

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



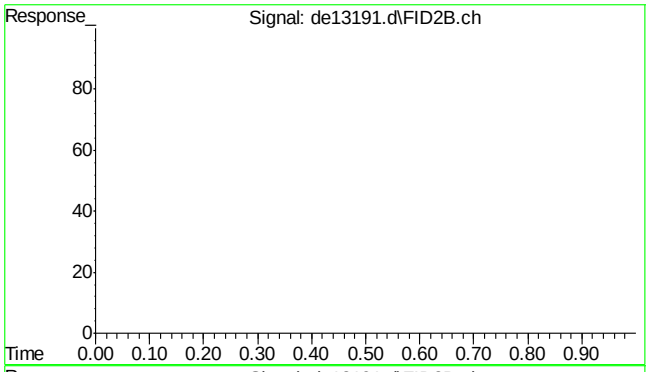
#42 bht

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

9.4.1

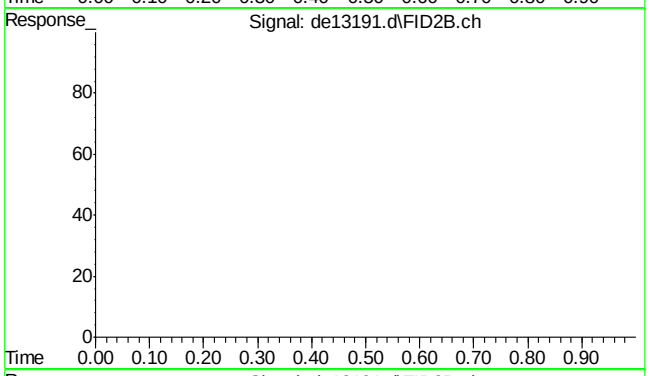
9

SGS ACCUTEST MC45799



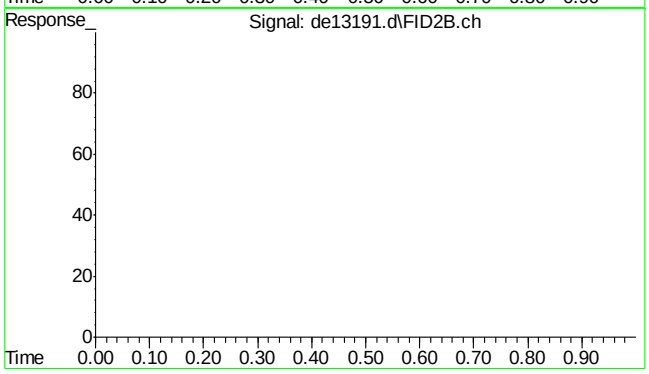
#43 bht

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.

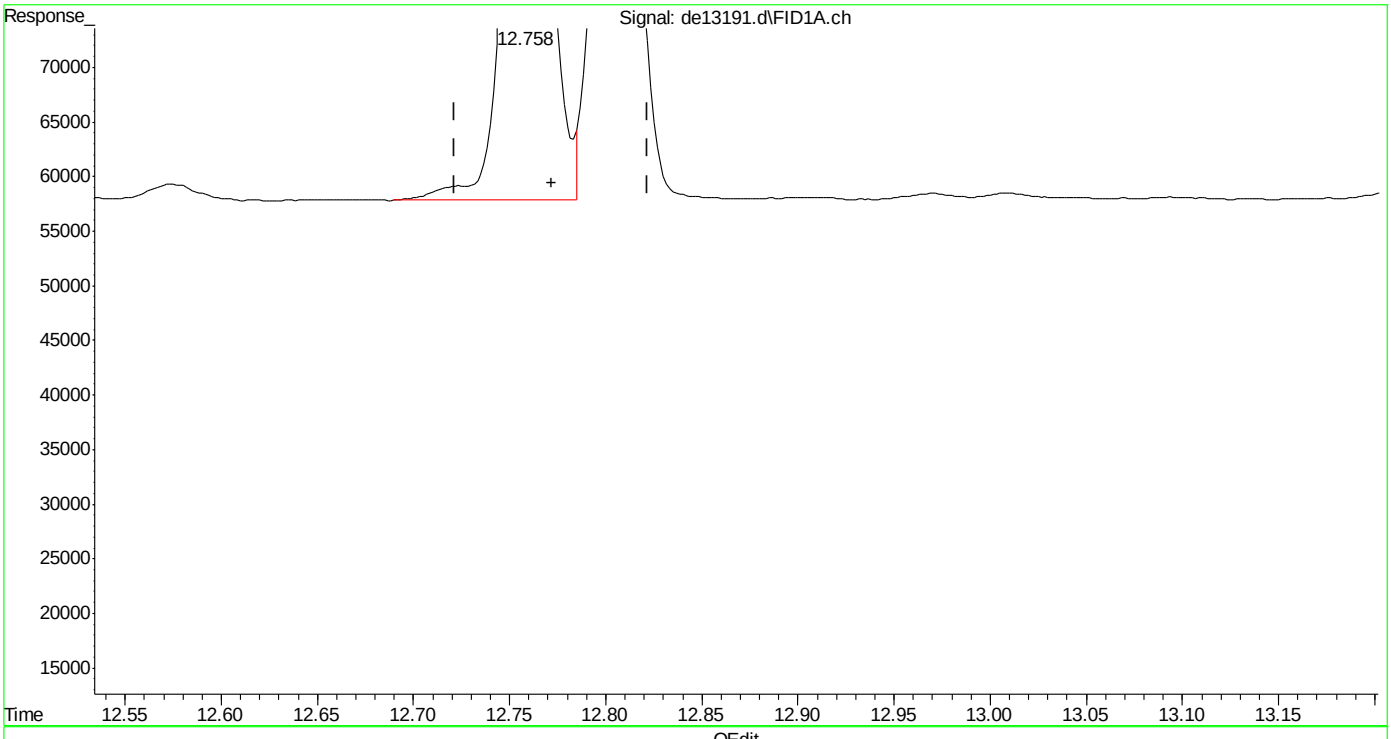
SGS ACCUTEST MC45799

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

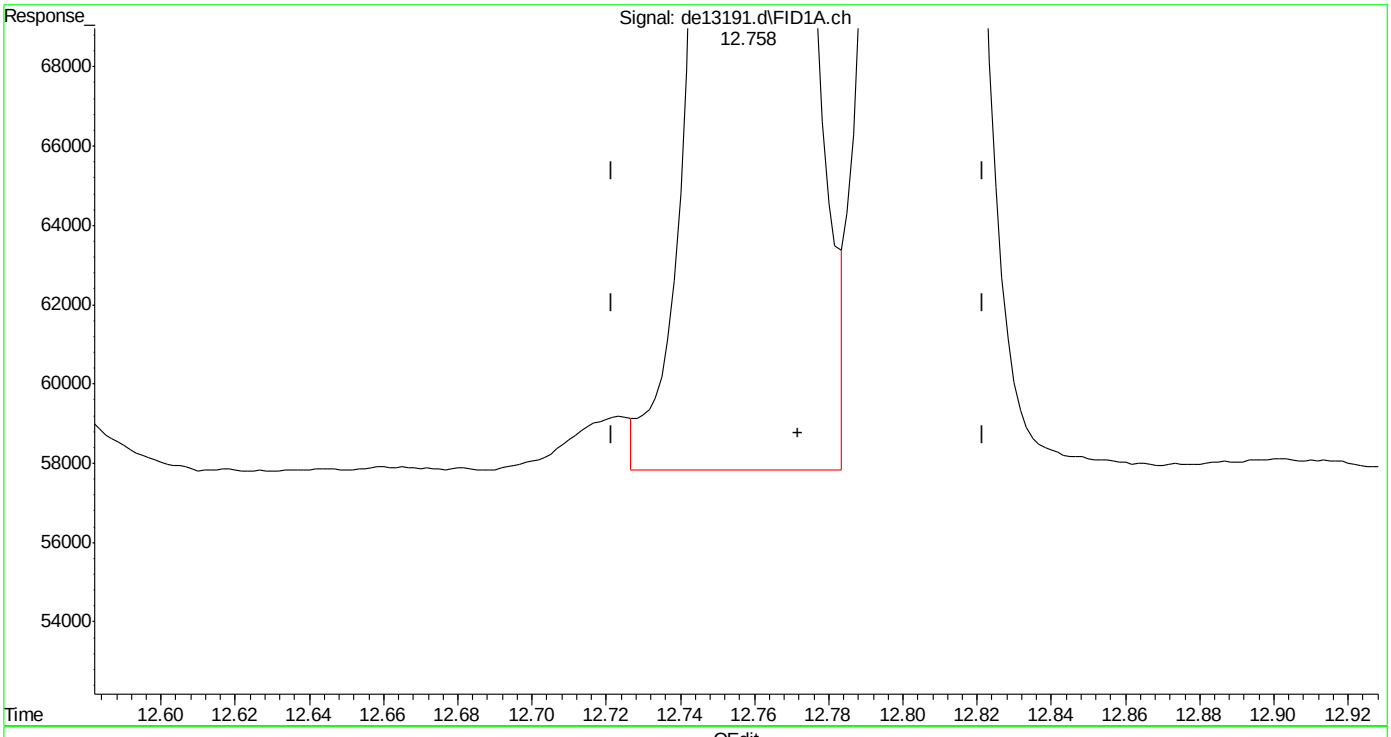
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:36:33 2016

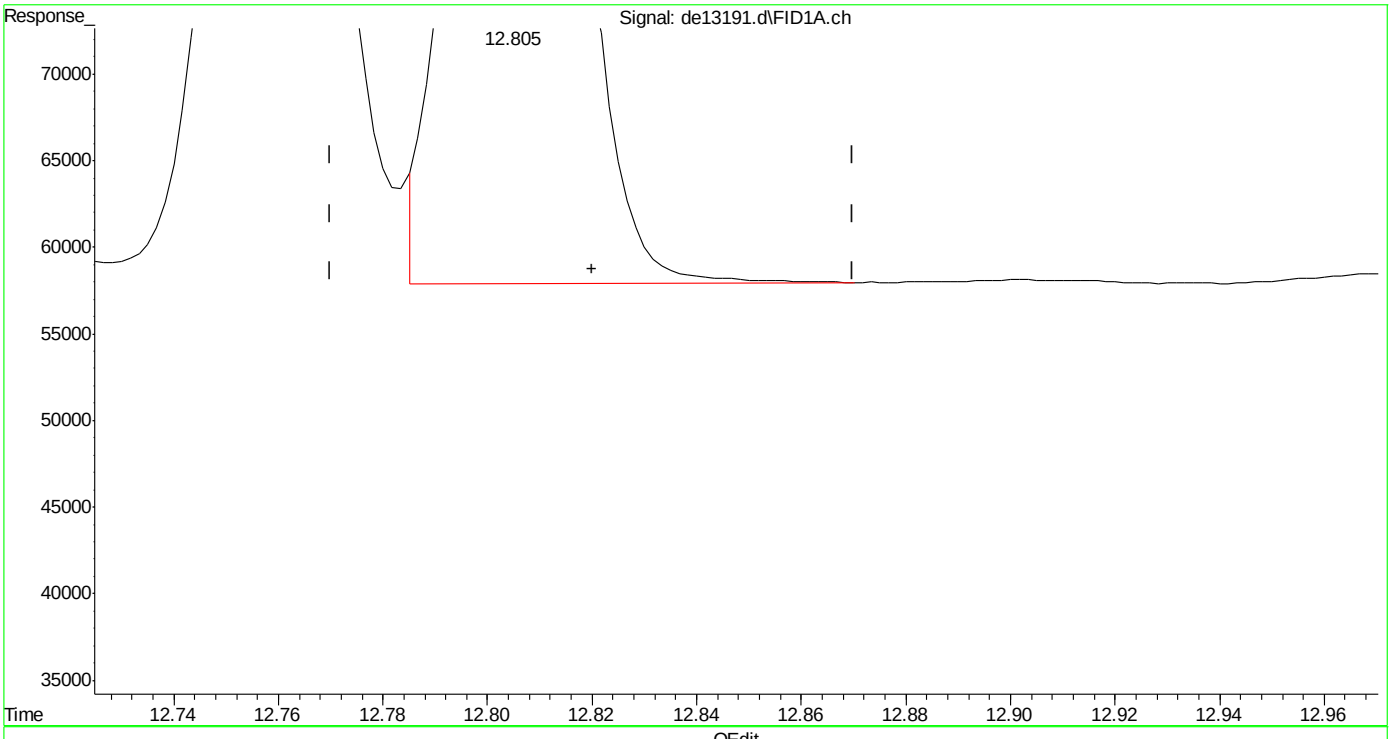
SGS ACCUTEST MC45799

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

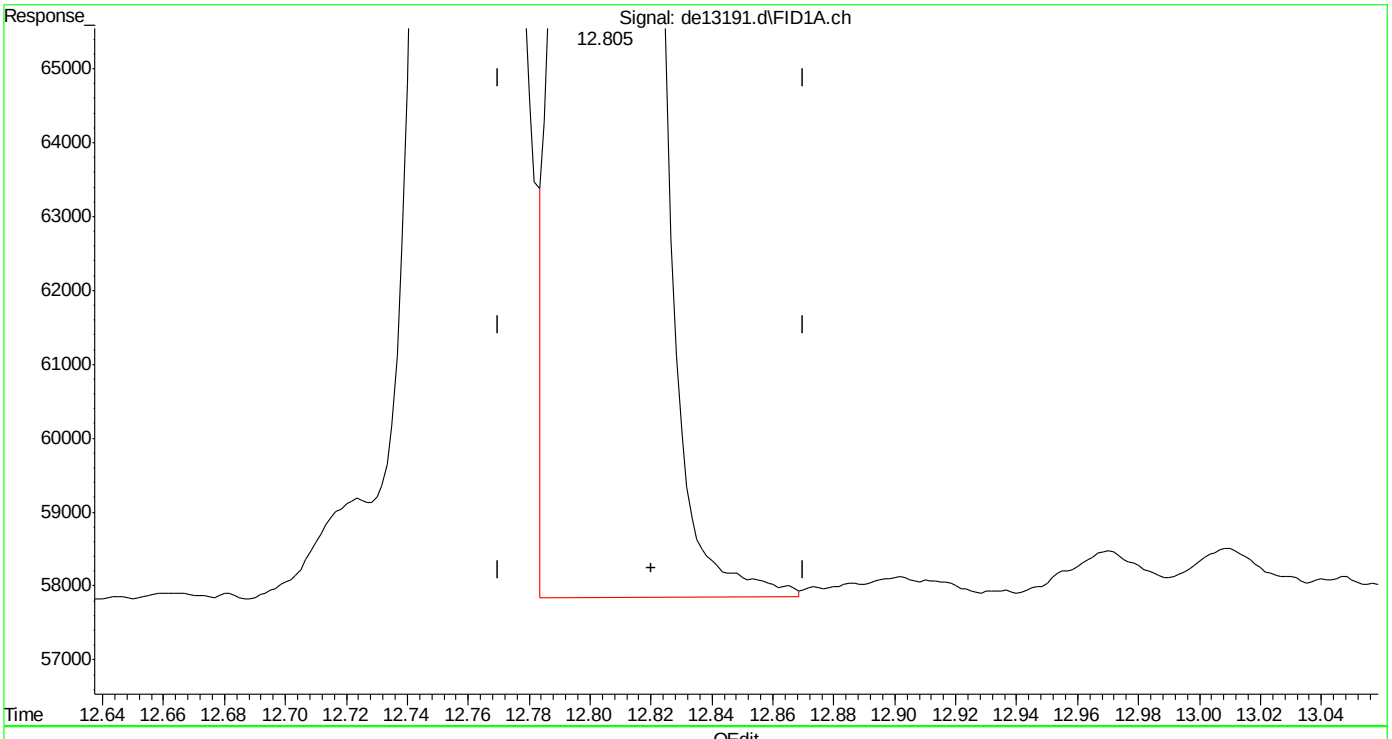
SGS ACCUTEST MC45799

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
EPH160204M.M Fri Feb 05 10:37:01 2016

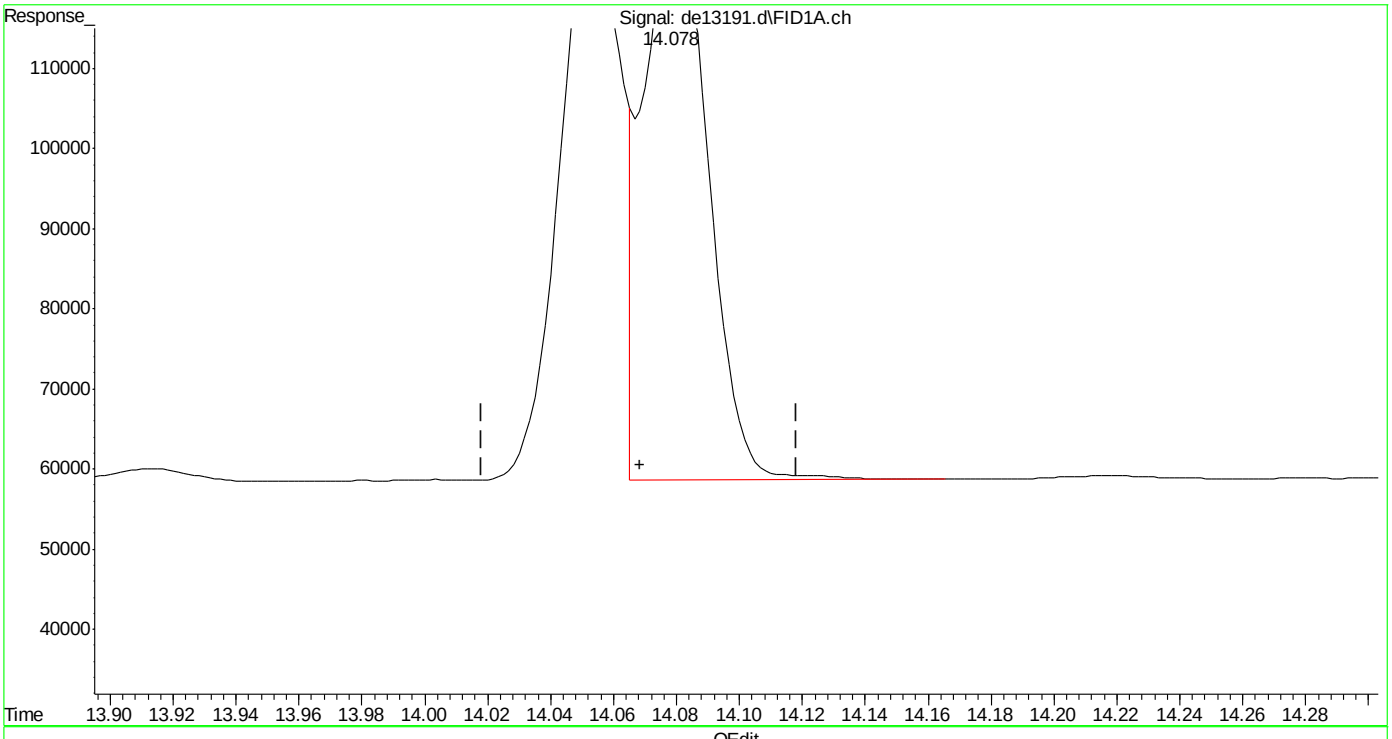
SGS ACCUTEST MC45799

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
EPH160204M.M Fri Feb 05 10:37:05 2016 Page: 1

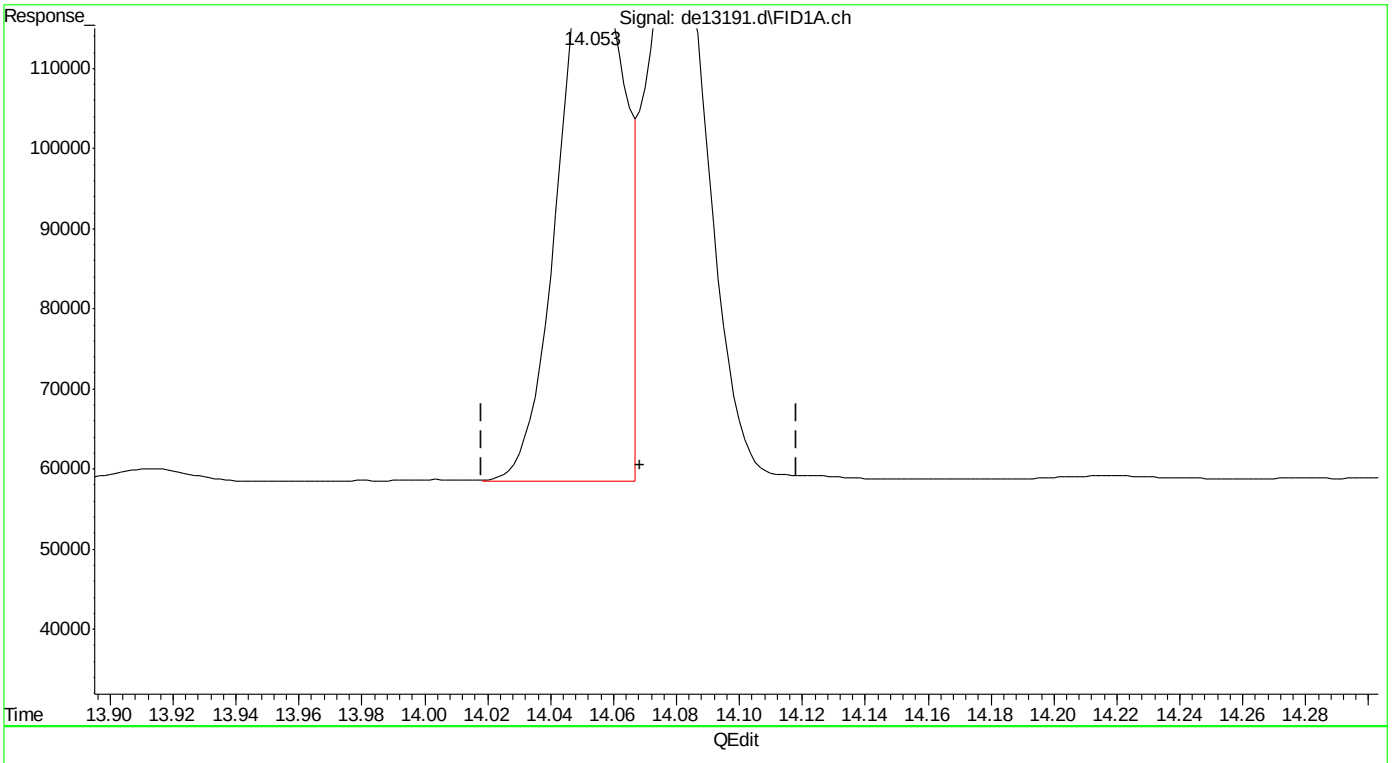
SGS ACCUTEST MC45799

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

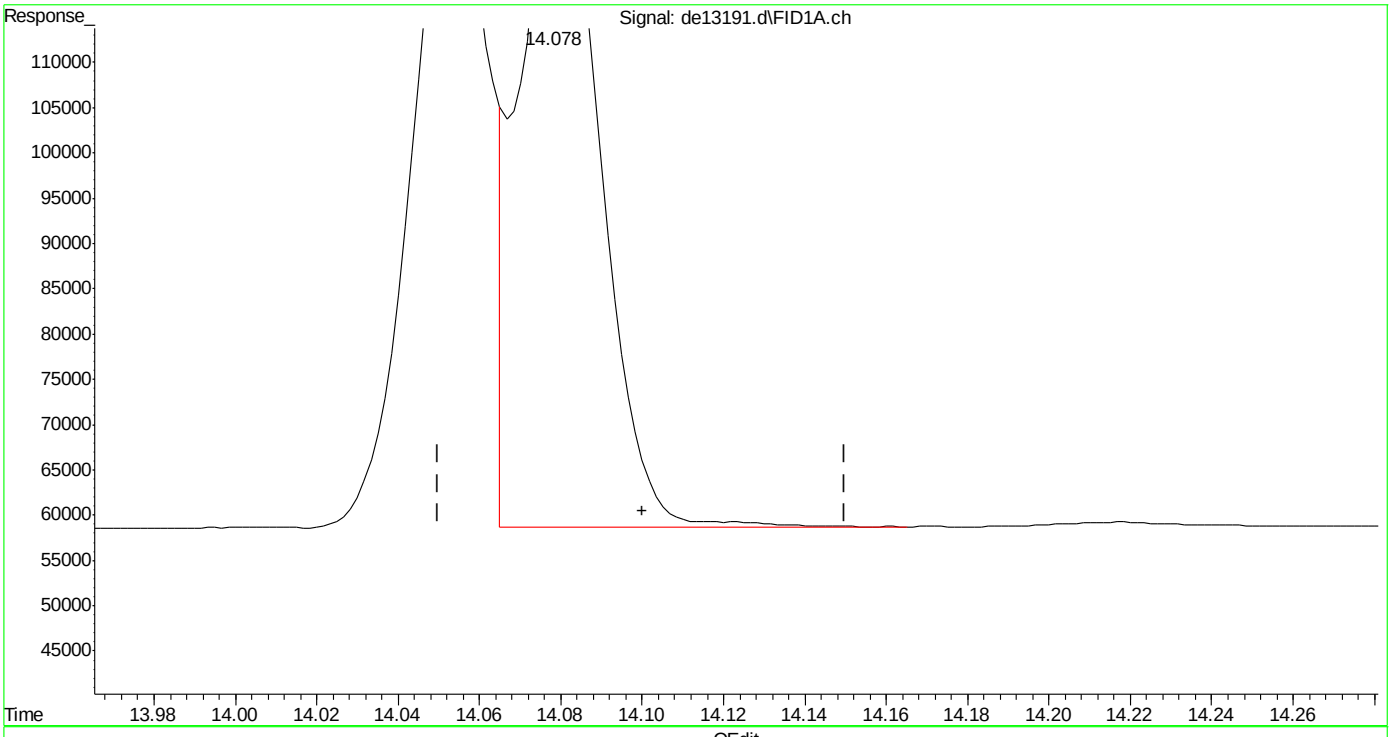
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:37:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.078min 1.024 µg/ml
response 100280

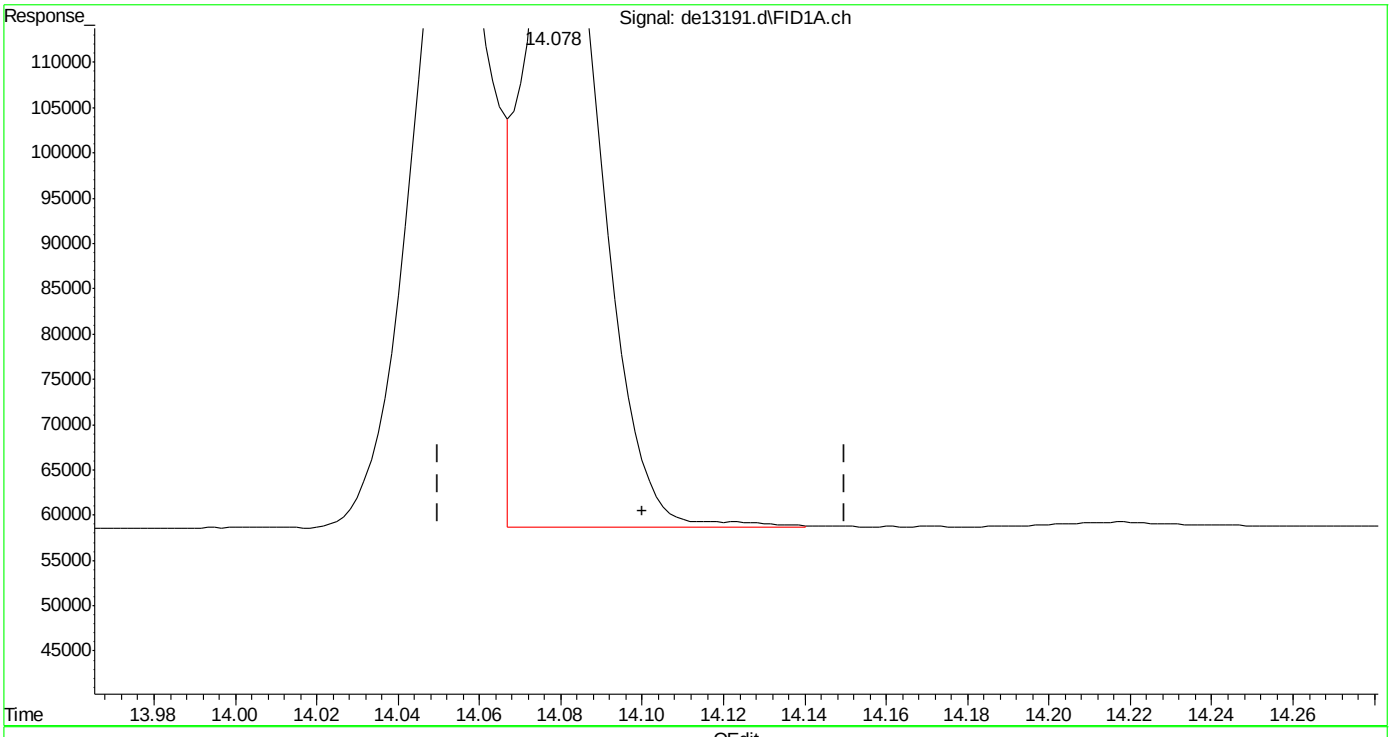
(+) = Expected Retention Time

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

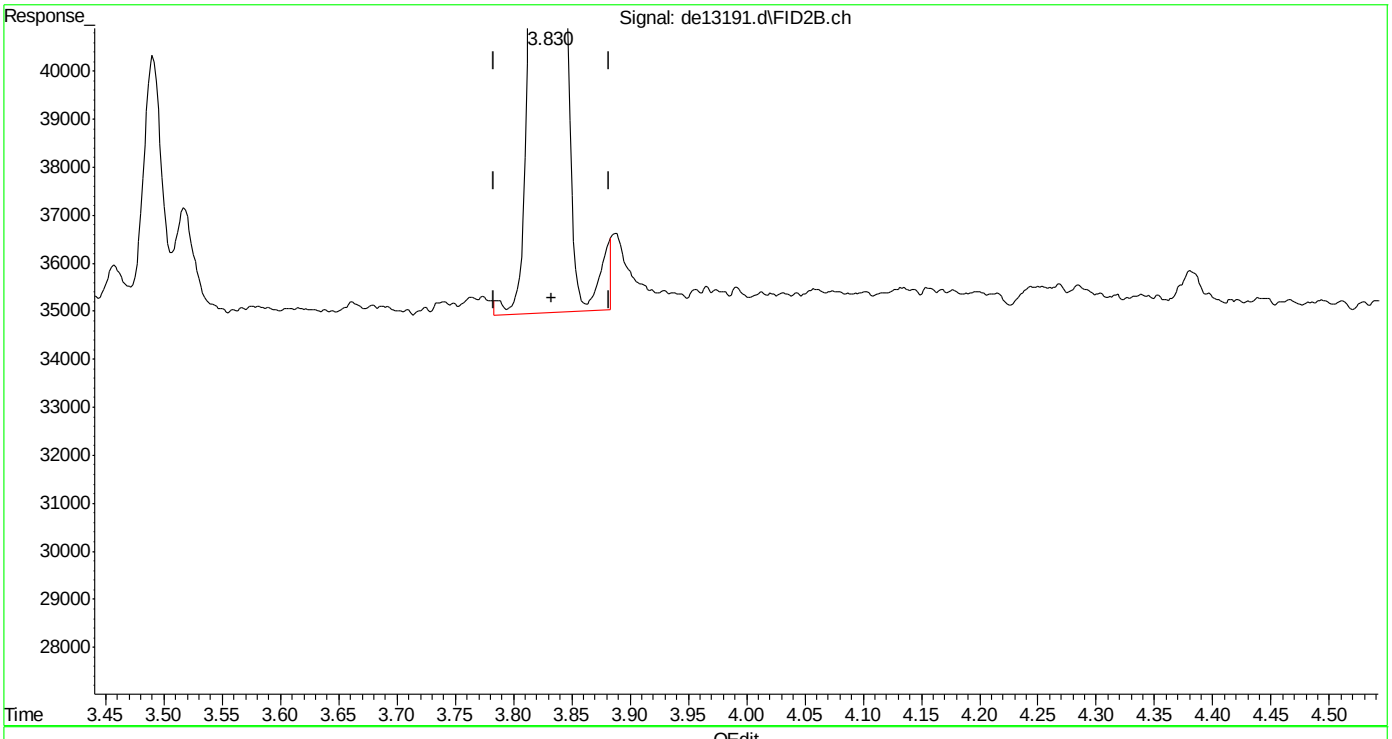
SGS ACCUTEST MC45799

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

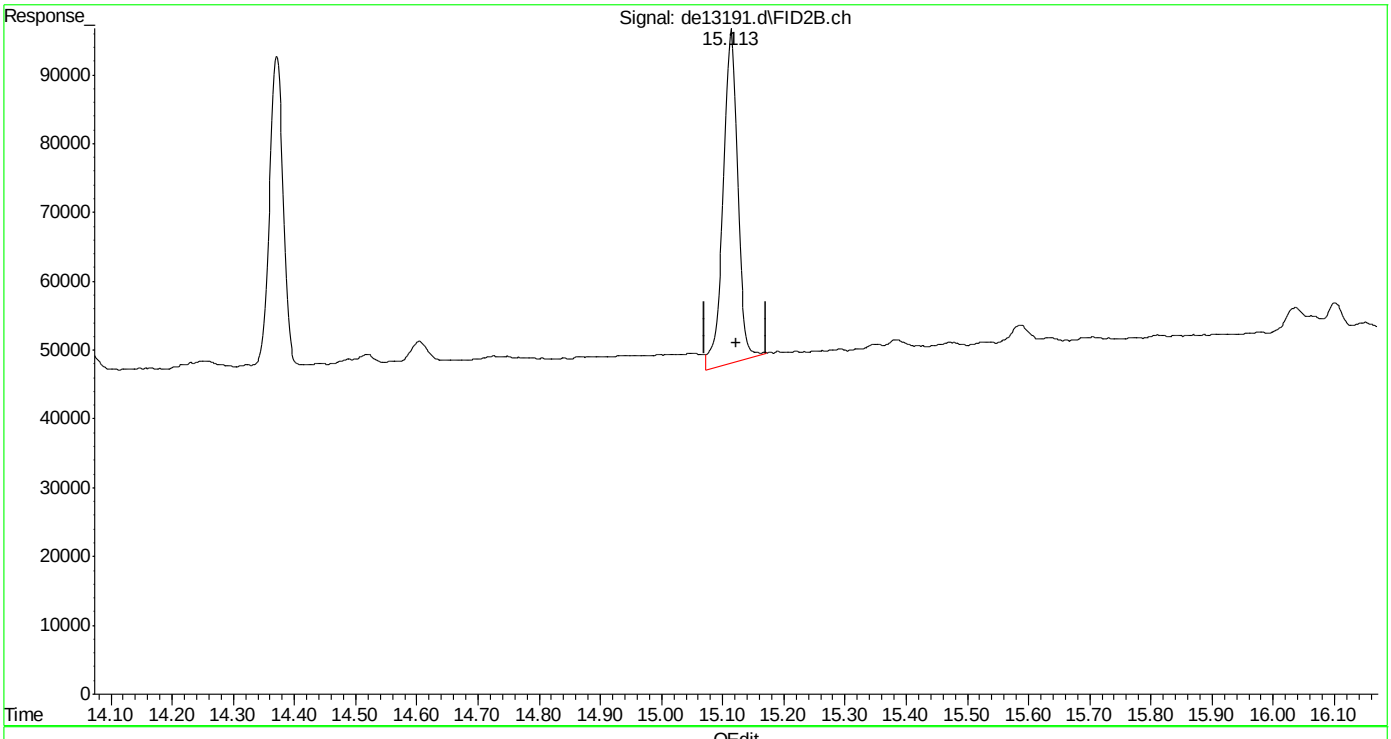
(+) = Expected Retention Time

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

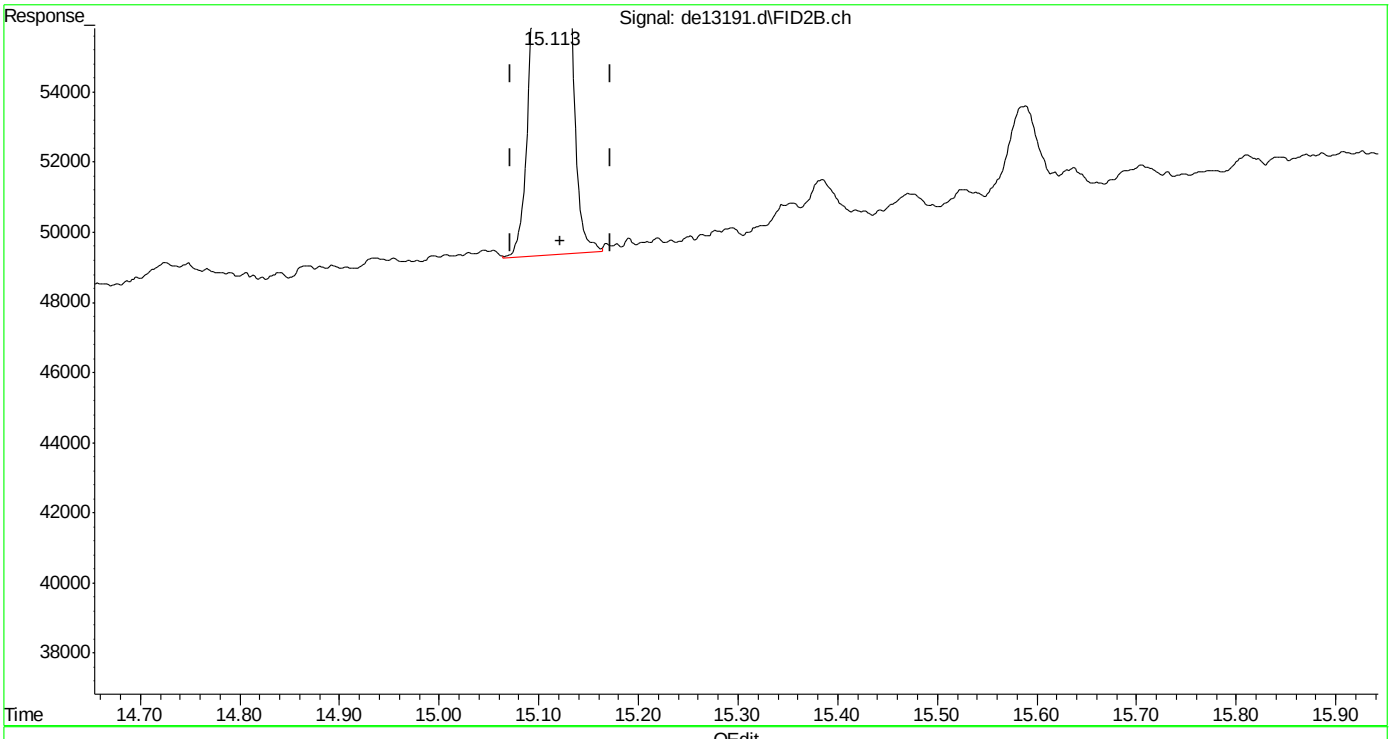
SGS ACCUTEST MC45799

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
EPH160204M.M Fri Feb 05 10:38:16 2016

SGS ACCUTEST MC45799

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

SGS ACCUTEST MC45799

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.

9.4.2

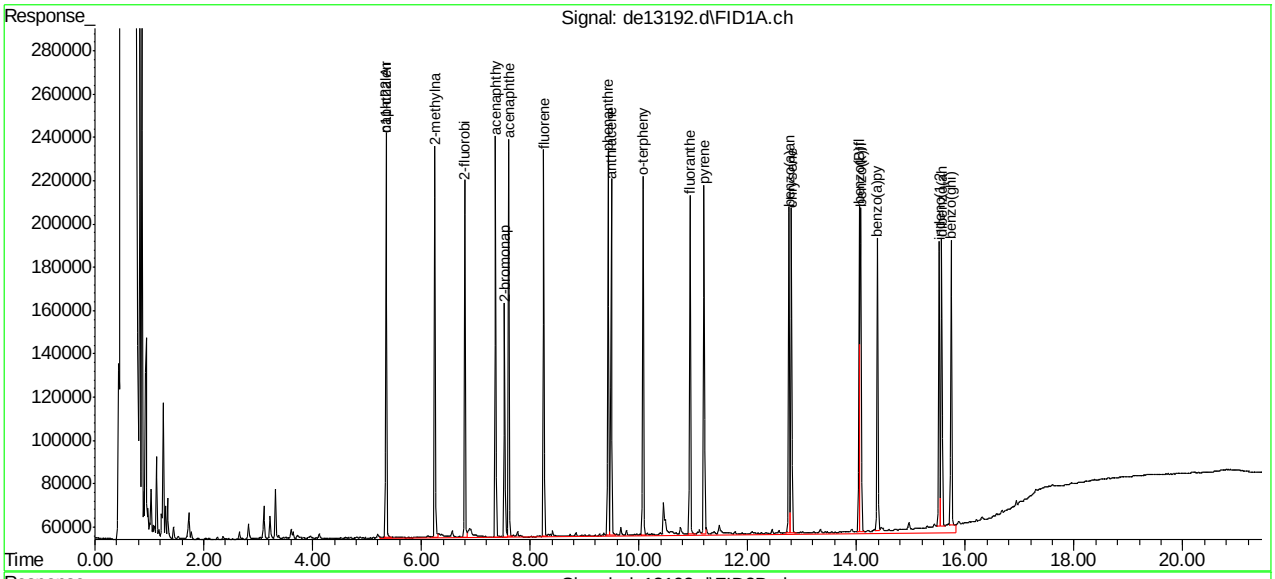
9

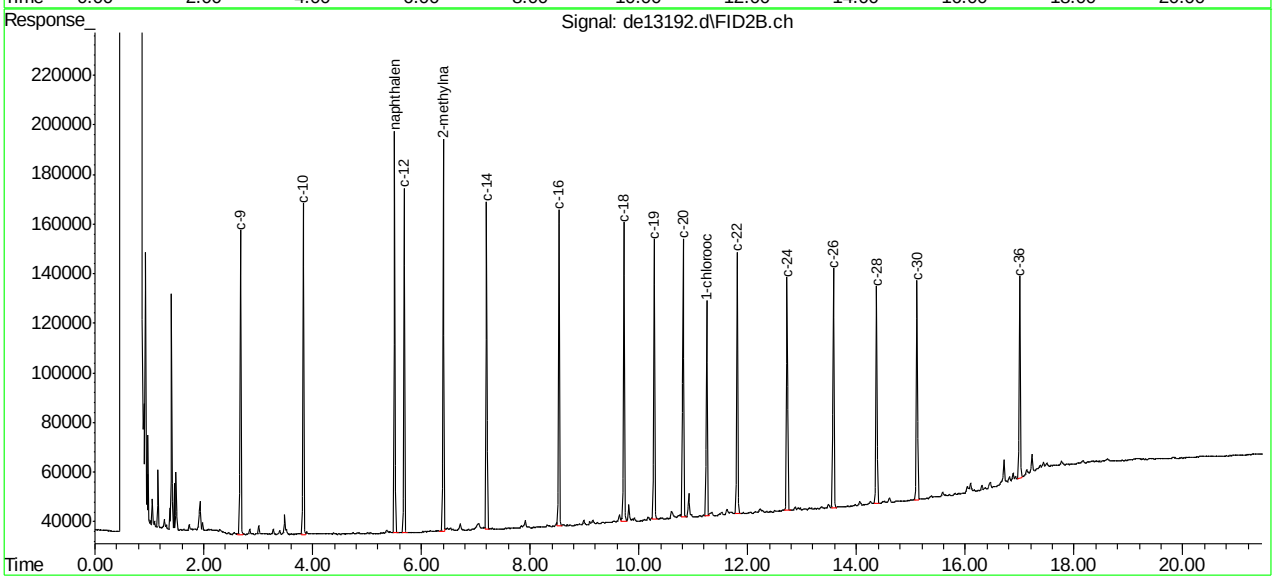
Quantitation Report (QT Reviewed)

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

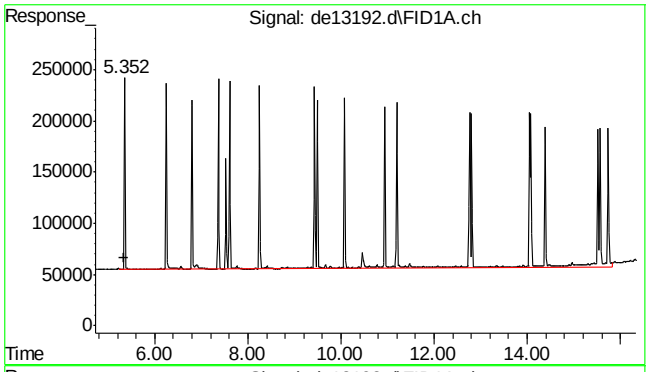
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



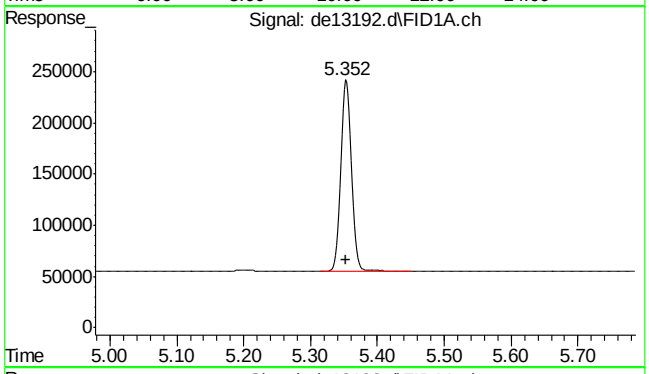


SGS ACCUTEST MC45799



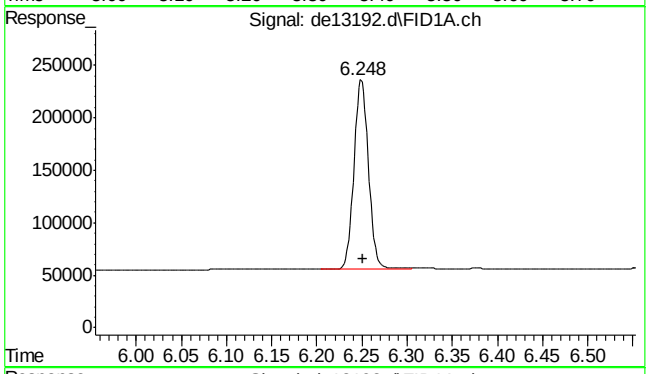
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



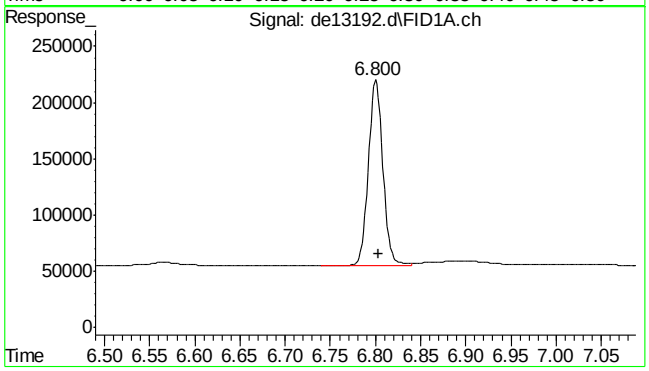
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

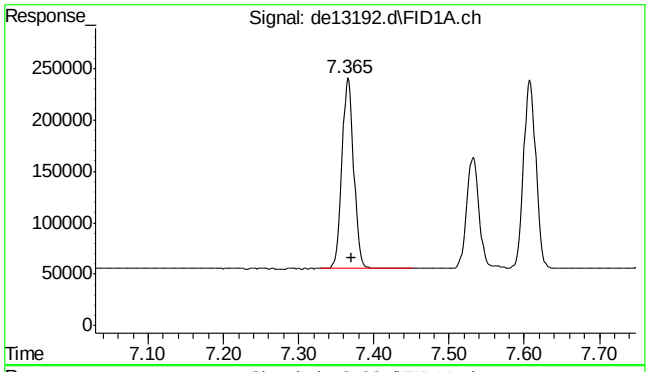
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

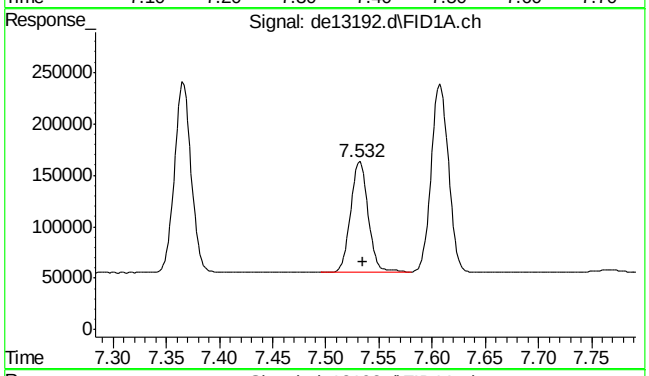
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45799



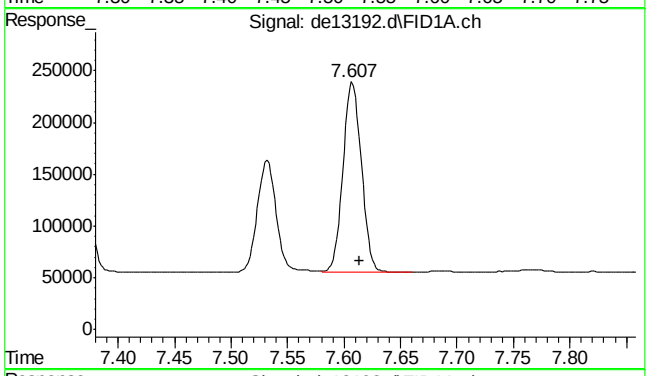
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



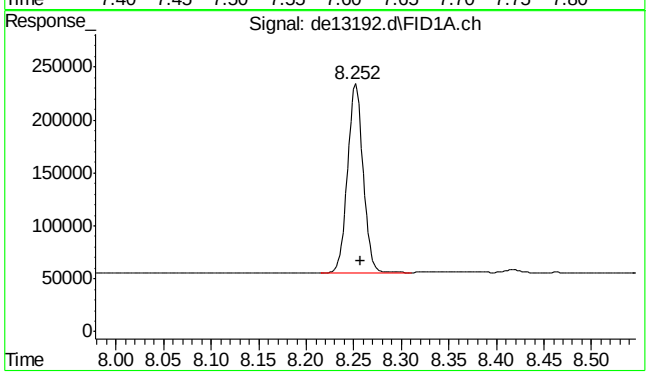
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



#7 acenaphthene

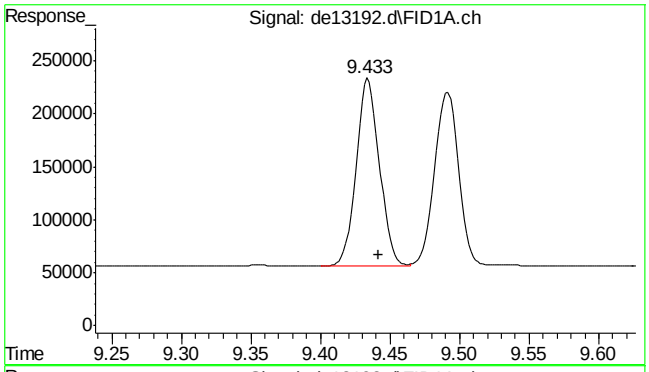
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



#8 fluorene

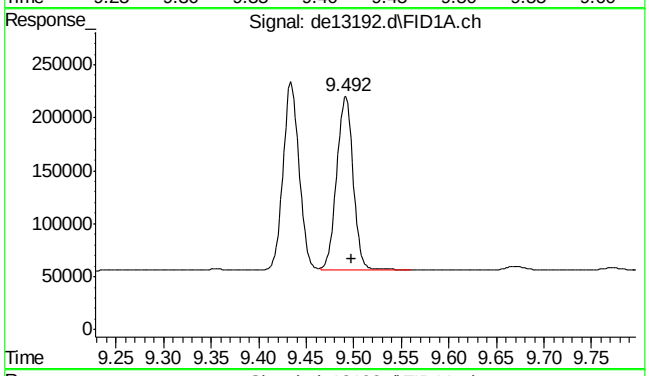
R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml

SGS ACCUTEST MC45799



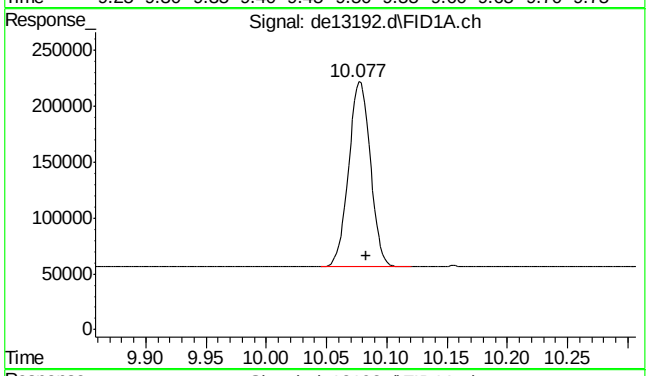
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



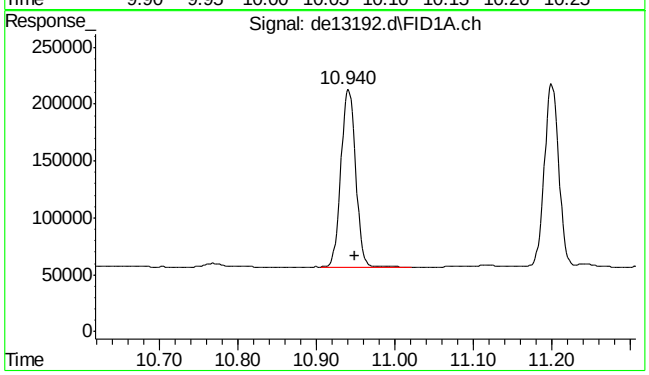
#10 anthracene

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



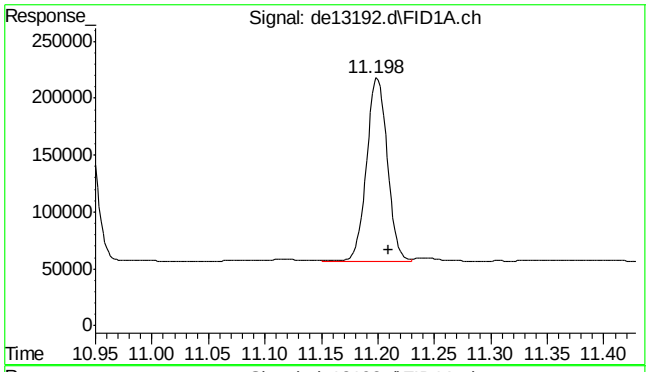
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.4.2

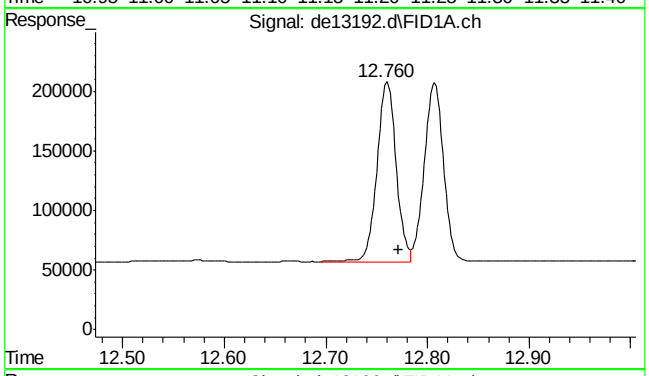
9

SGS ACCUTEST MC45799



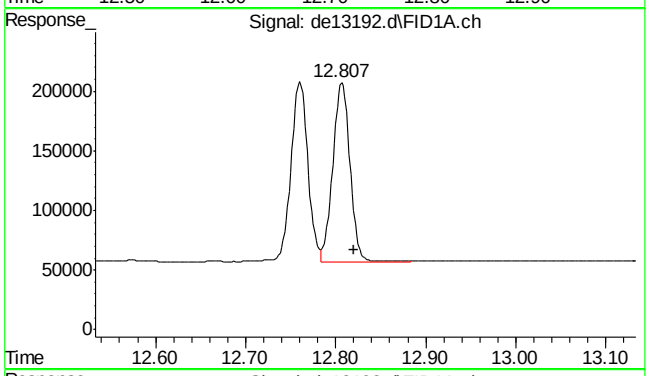
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



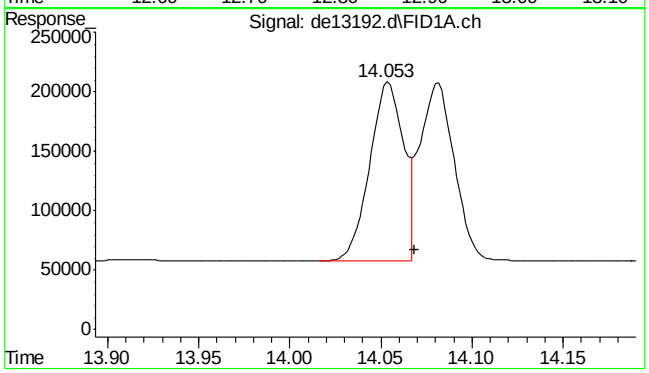
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

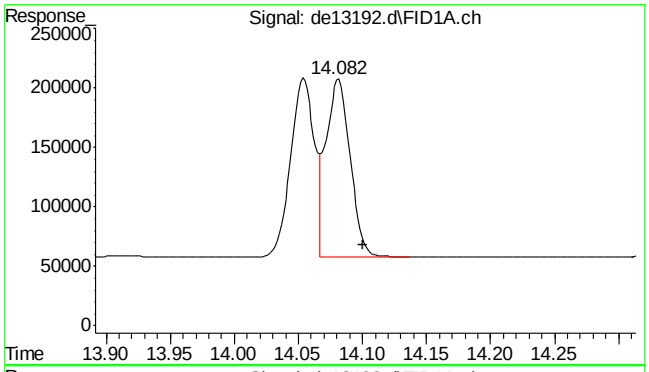
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

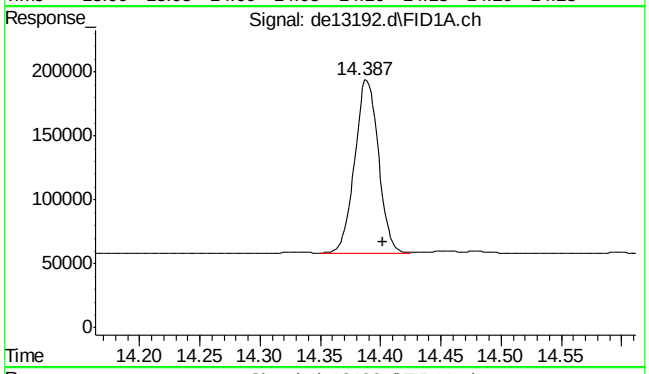
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

SGS ACCUTEST MC45799



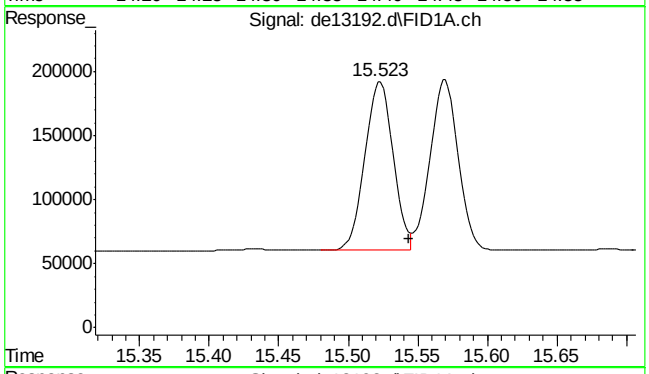
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



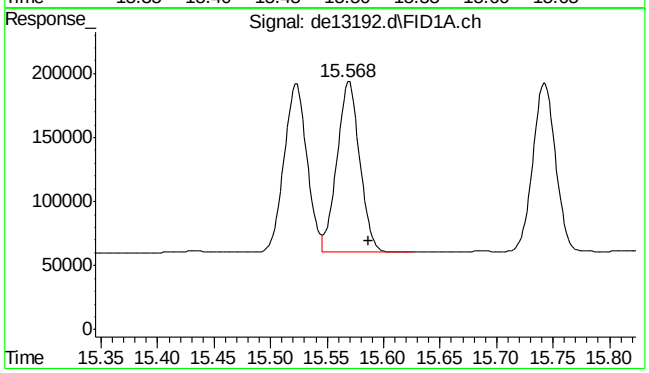
#18 benzo(a)pyrene

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

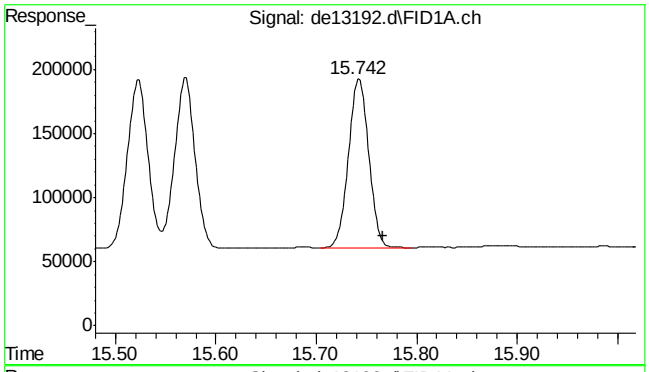
R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



#20 dibenzo(ah)anthracene

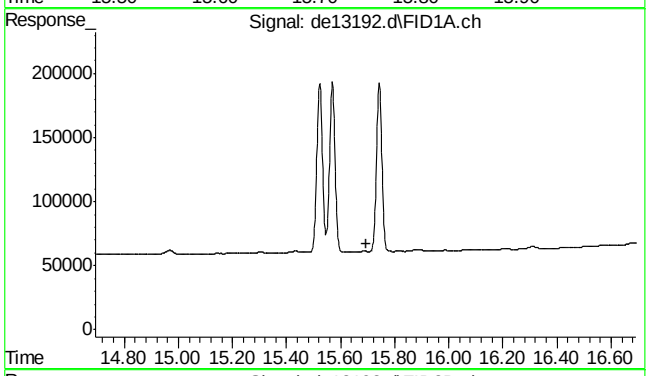
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml

SGS ACCUTEST MC45799



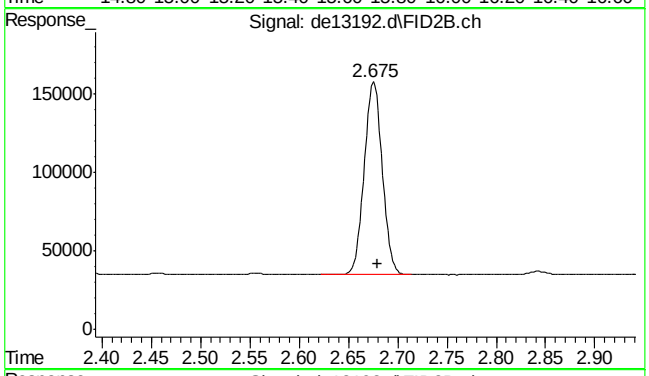
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



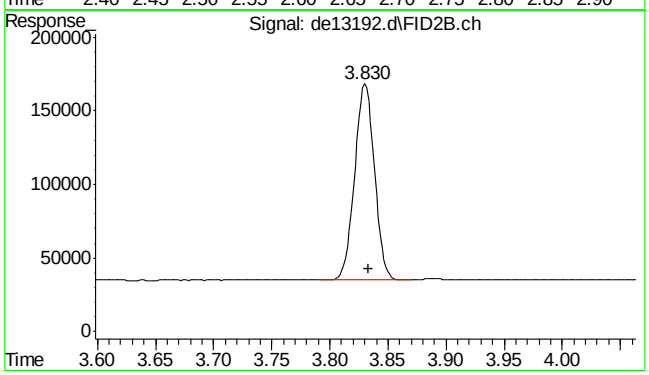
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

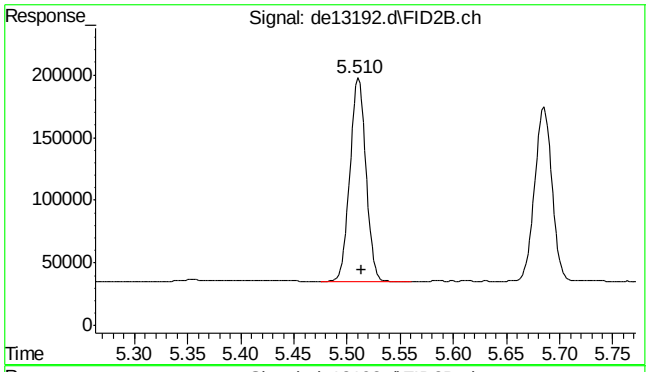
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



#26 c-10

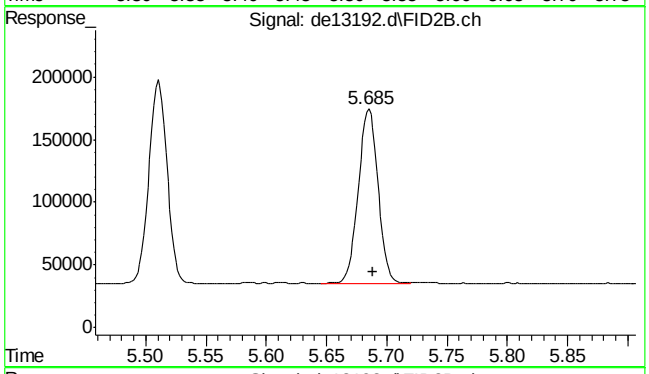
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m

SGS ACCUTEST MC45799



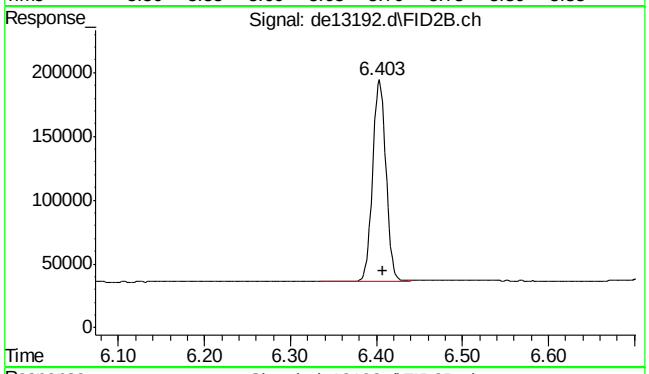
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



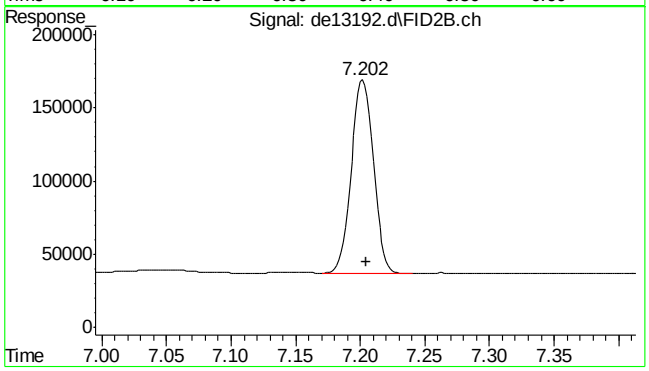
#28 c-12

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



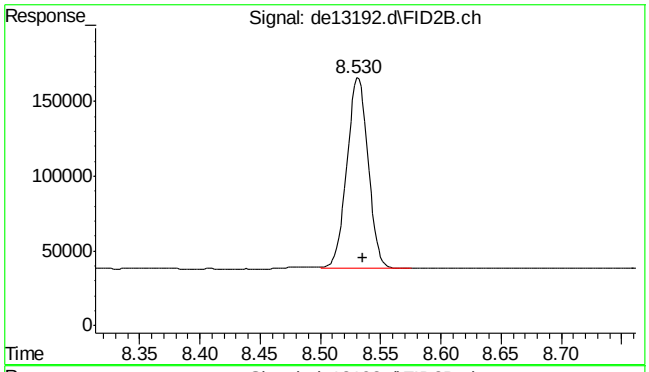
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.4.2

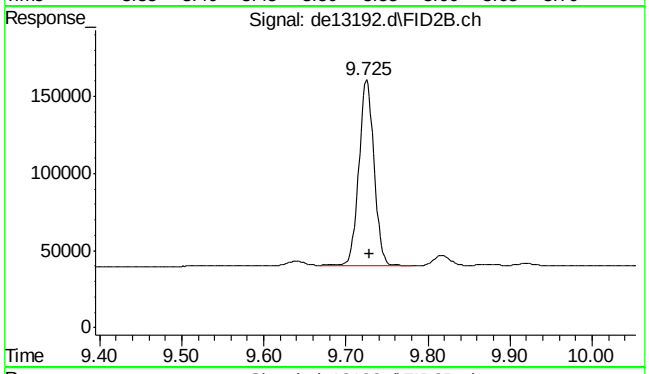
9

SGS ACCUTEST MC45799



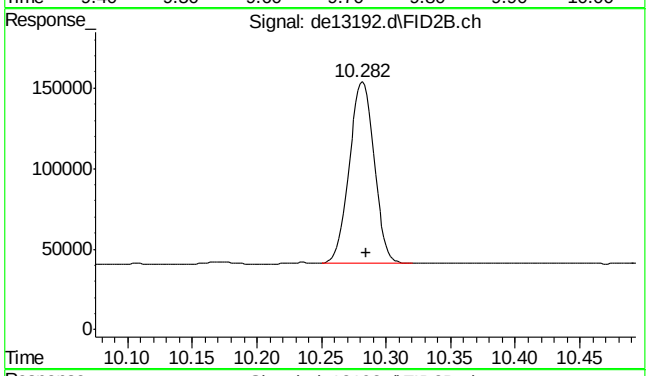
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



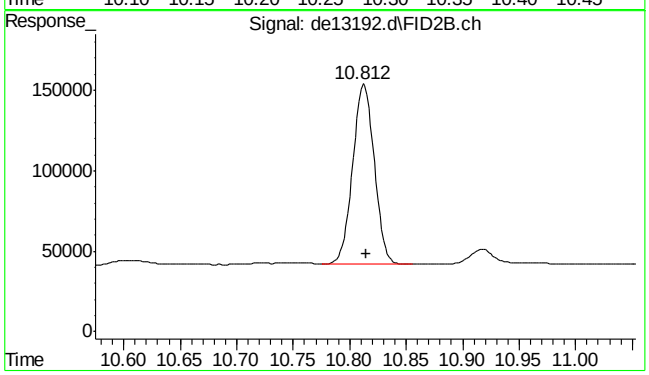
#32 c-18

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



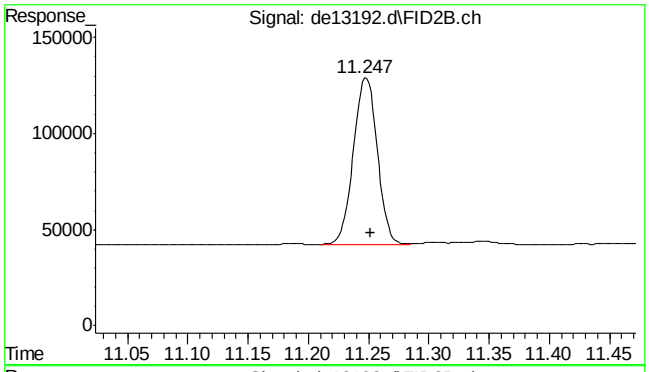
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

9.4.2

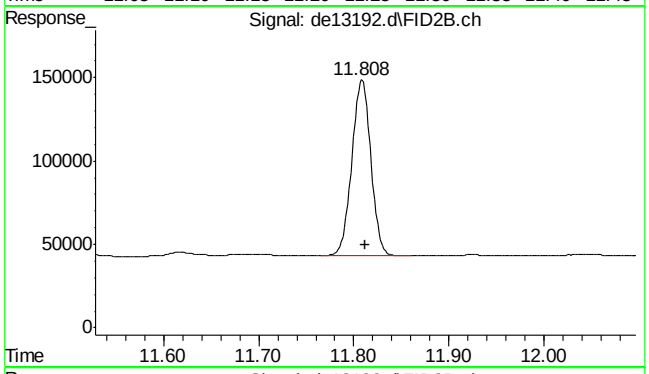
9

SGS ACCUTEST MC45799



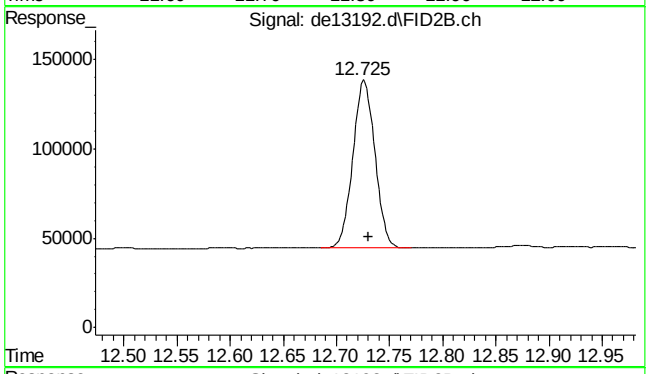
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



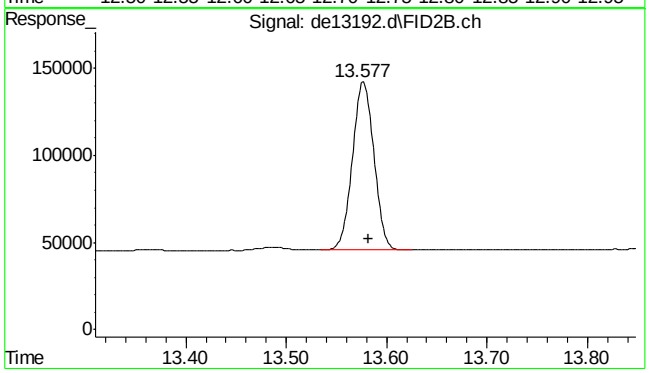
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

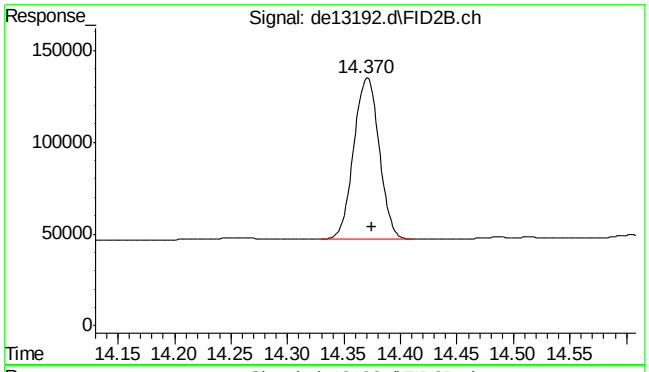
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

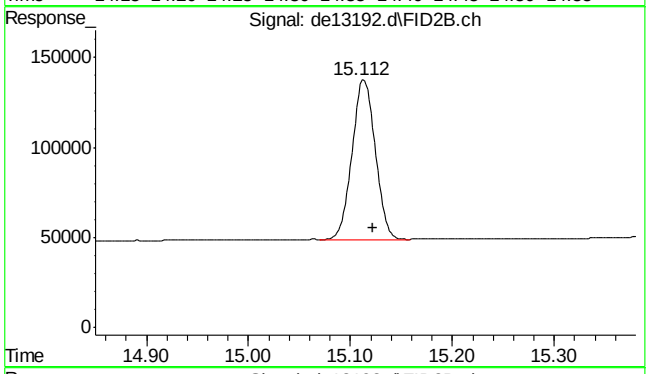
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45799



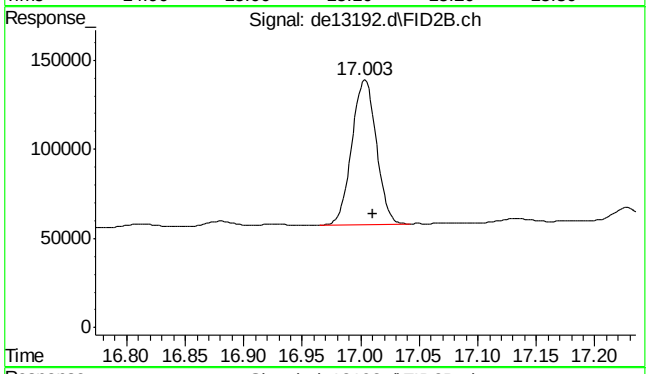
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



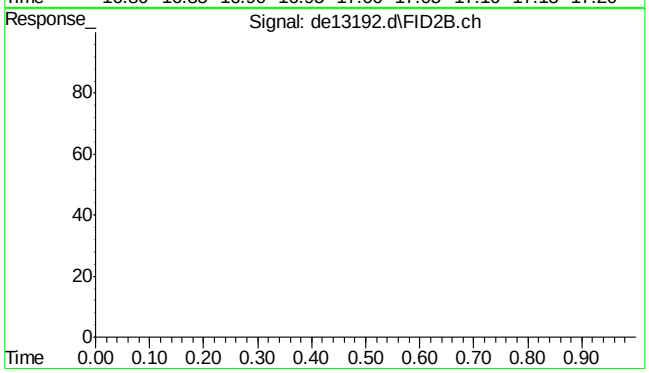
#40 c-30

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



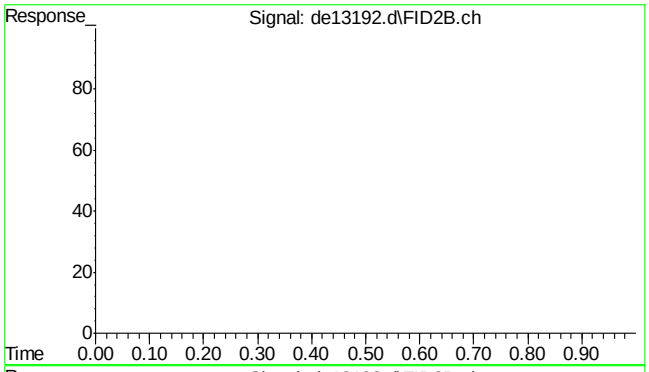
#42 bht

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

9.4.2

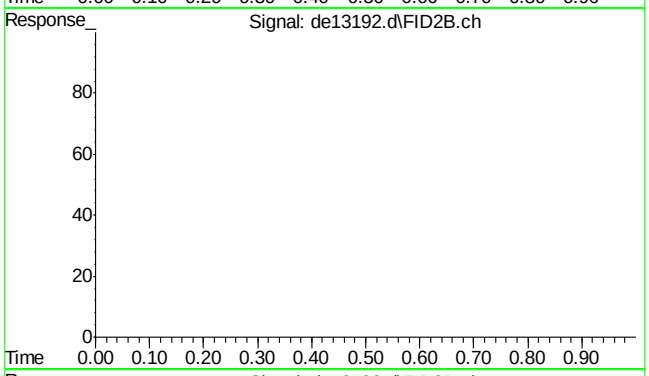
9

SGS ACCUTEST MC45799



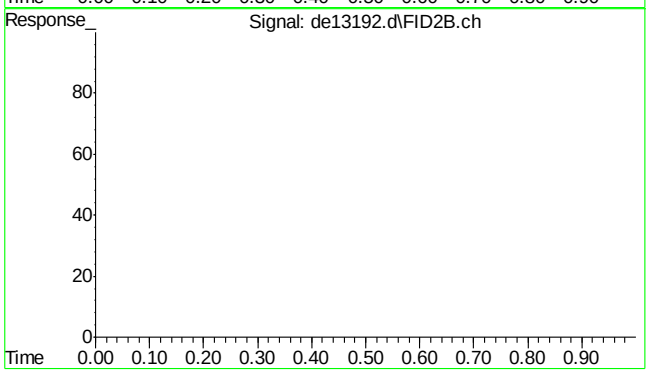
#43 bht

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.

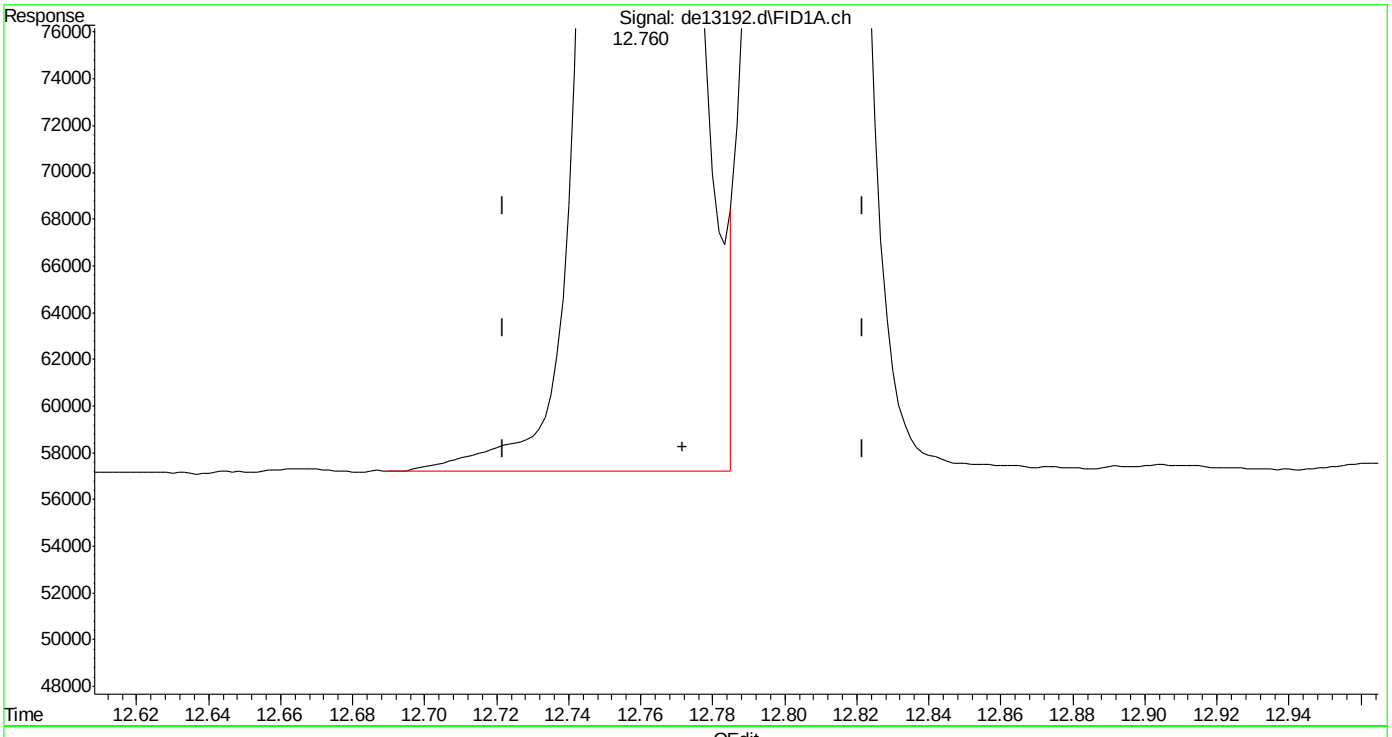
SGS ACCUTEST MC45799

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

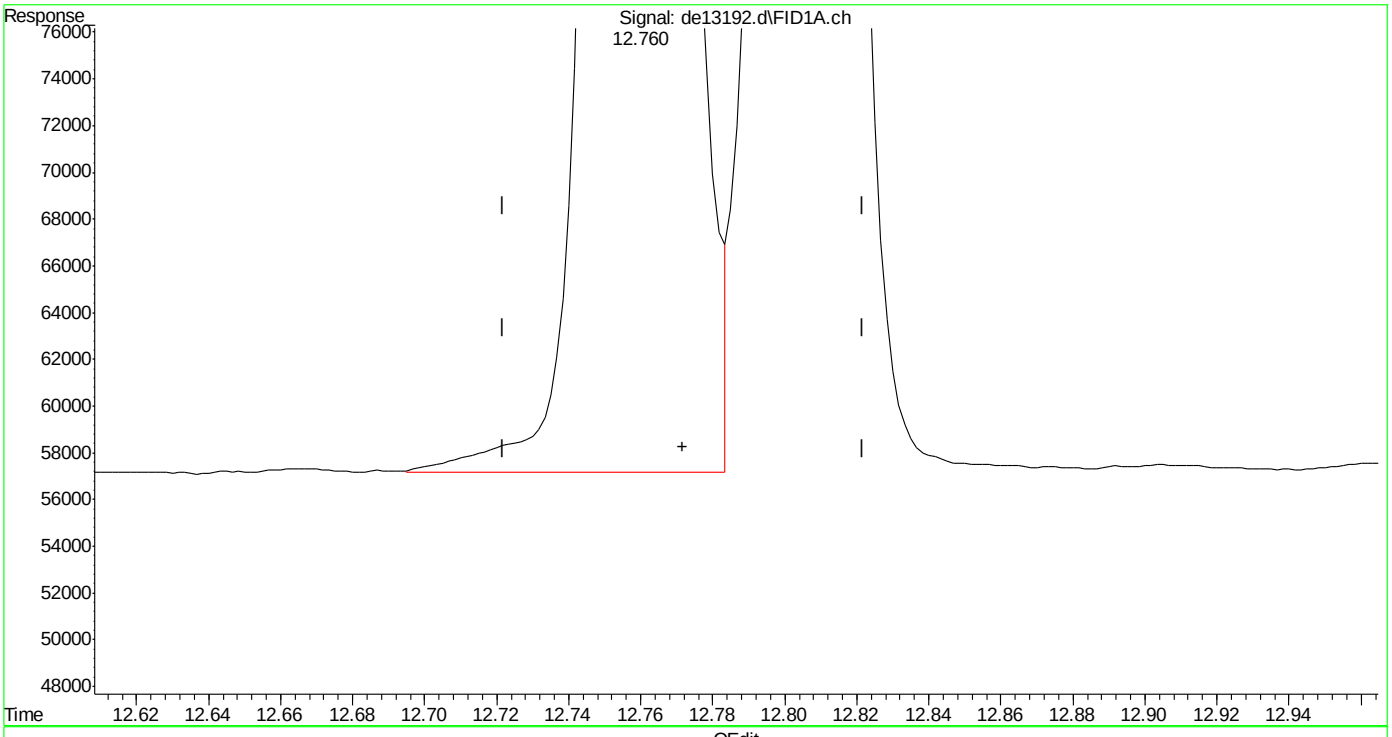
(+) = Expected Retention Time

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

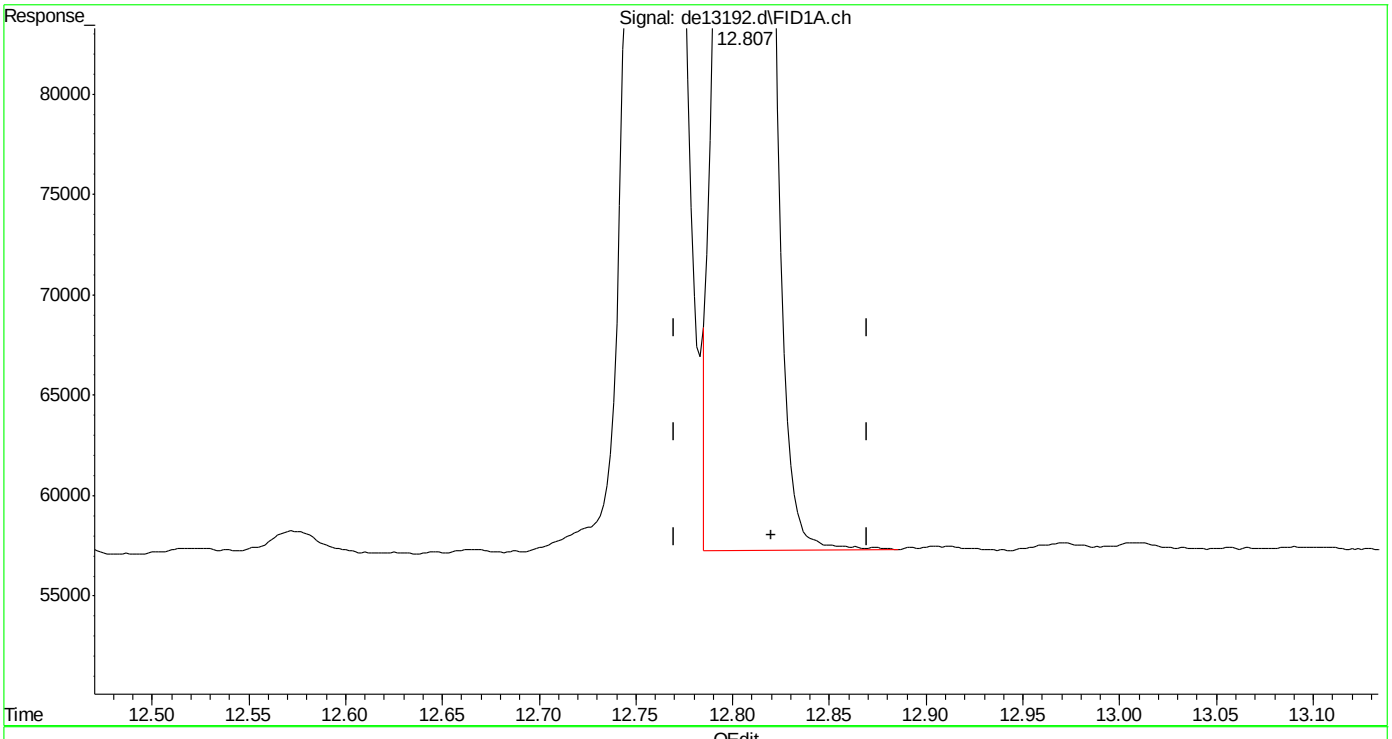
(+) = Expected Retention Time

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

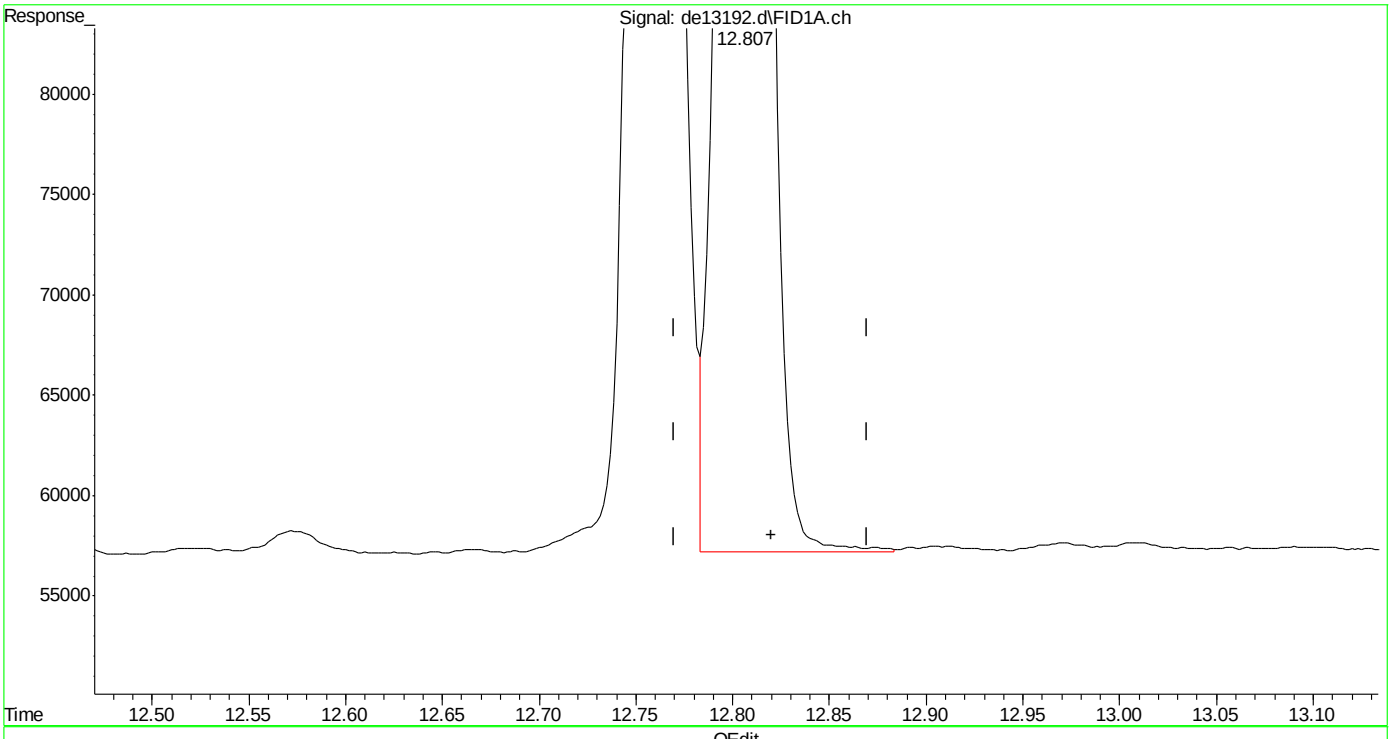
SGS ACCUTEST MC45799

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

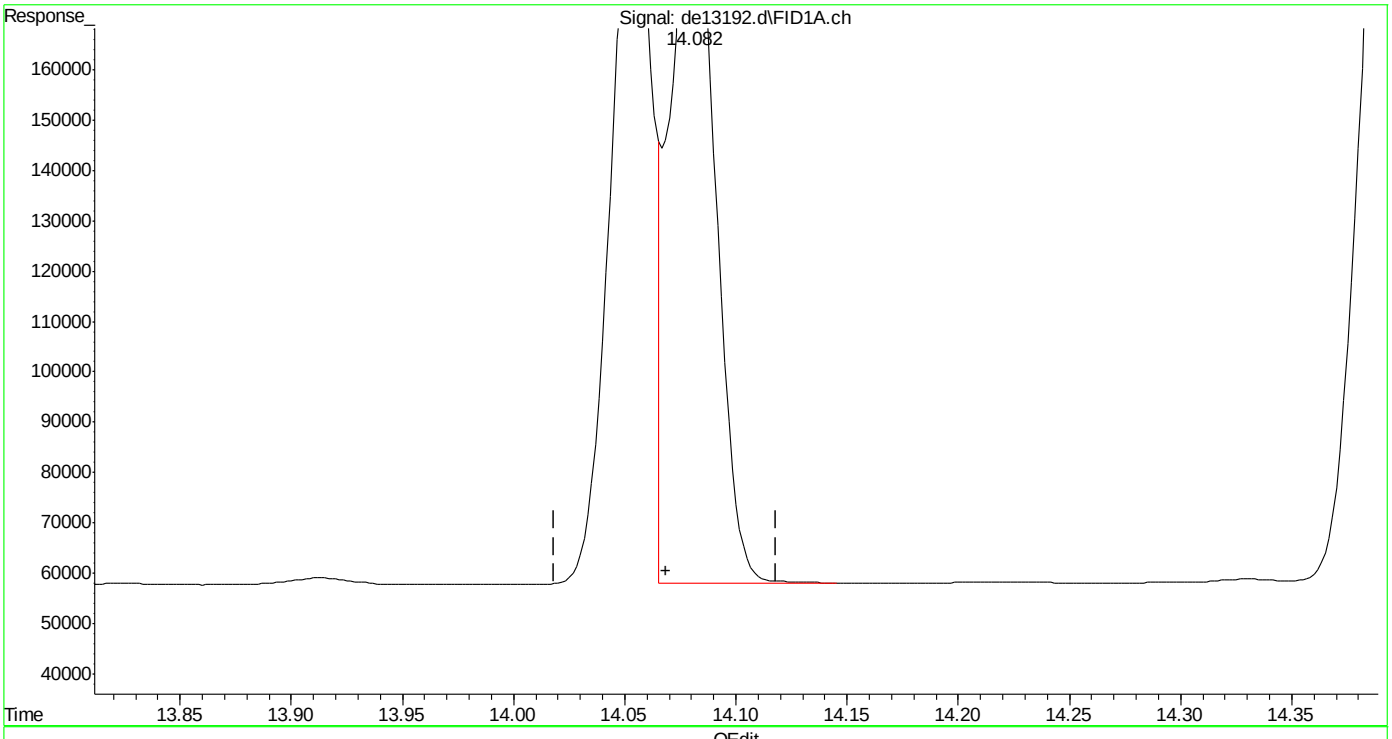
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:40:19 2016

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

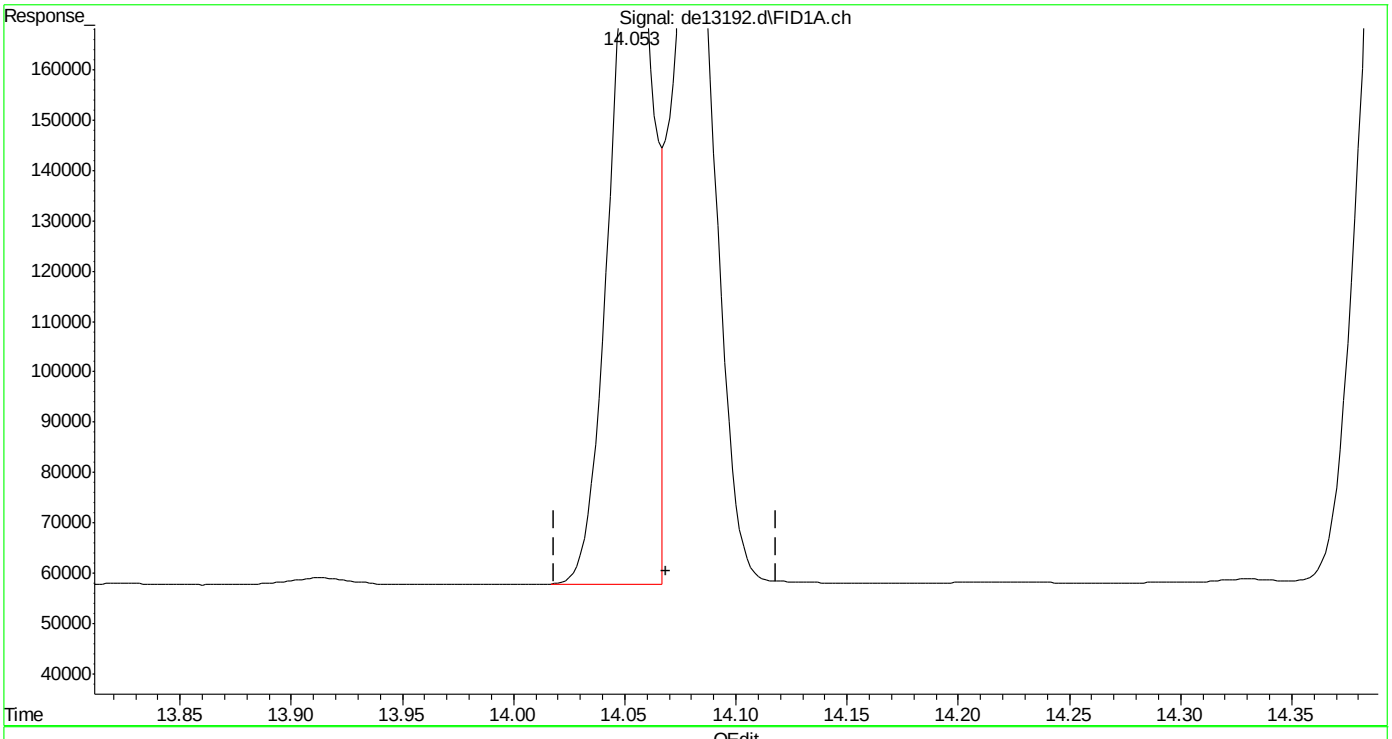
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

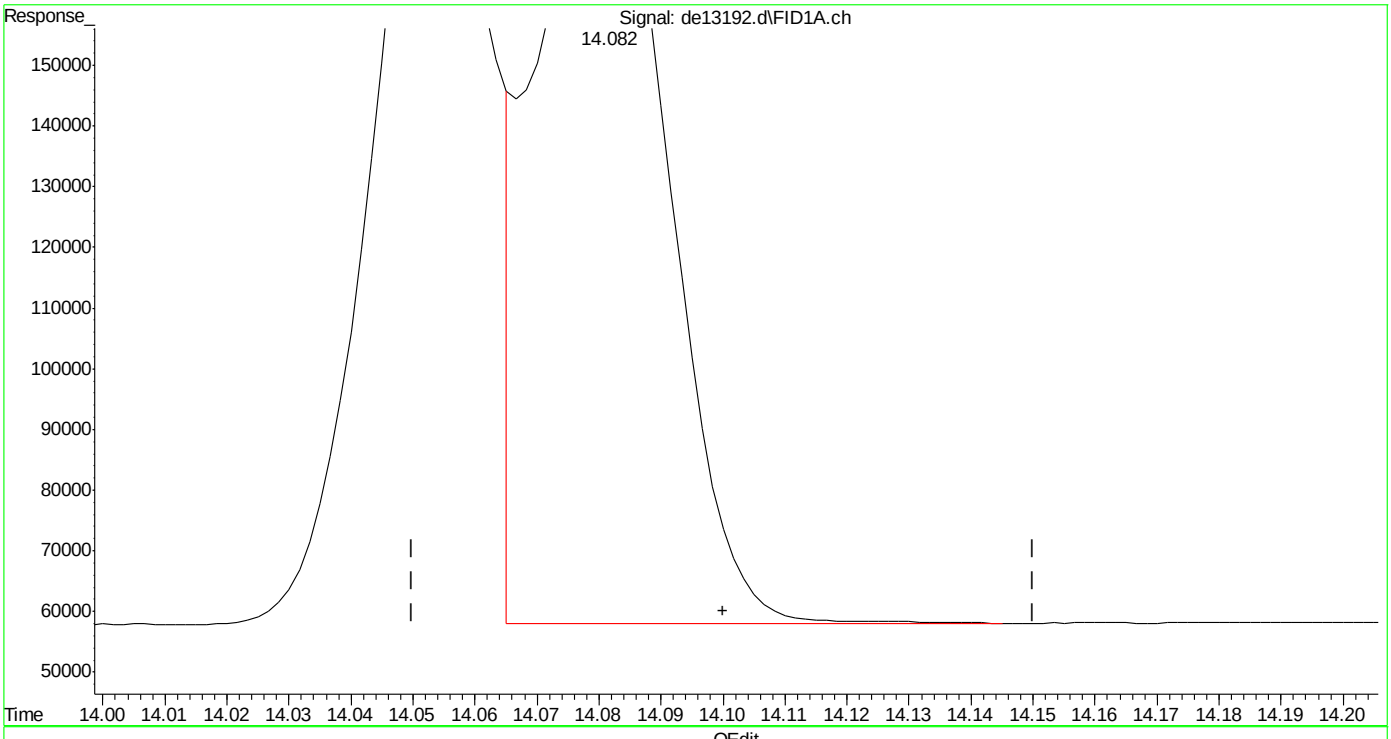
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.082min 2.077 µg/ml
response 202408

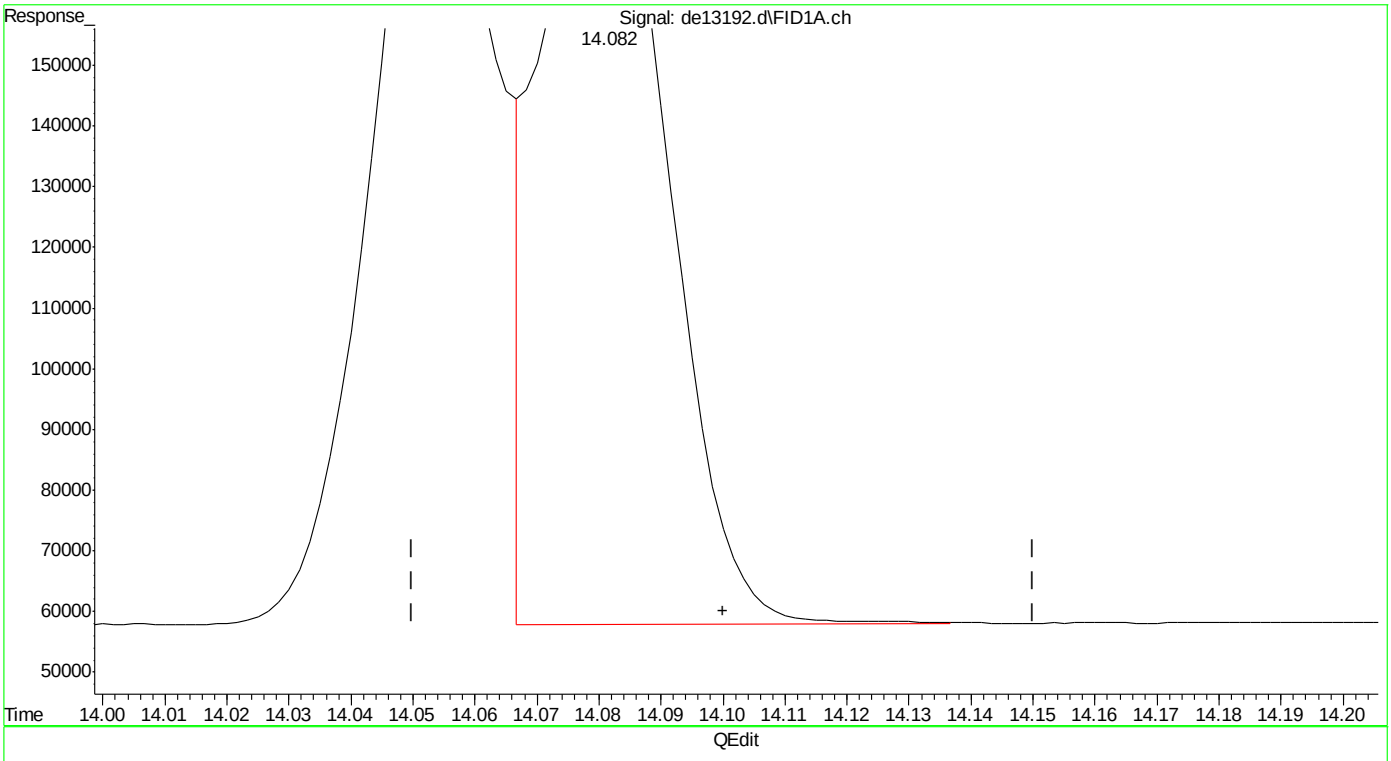
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.082min 1.989 µg/ml m
response 193855

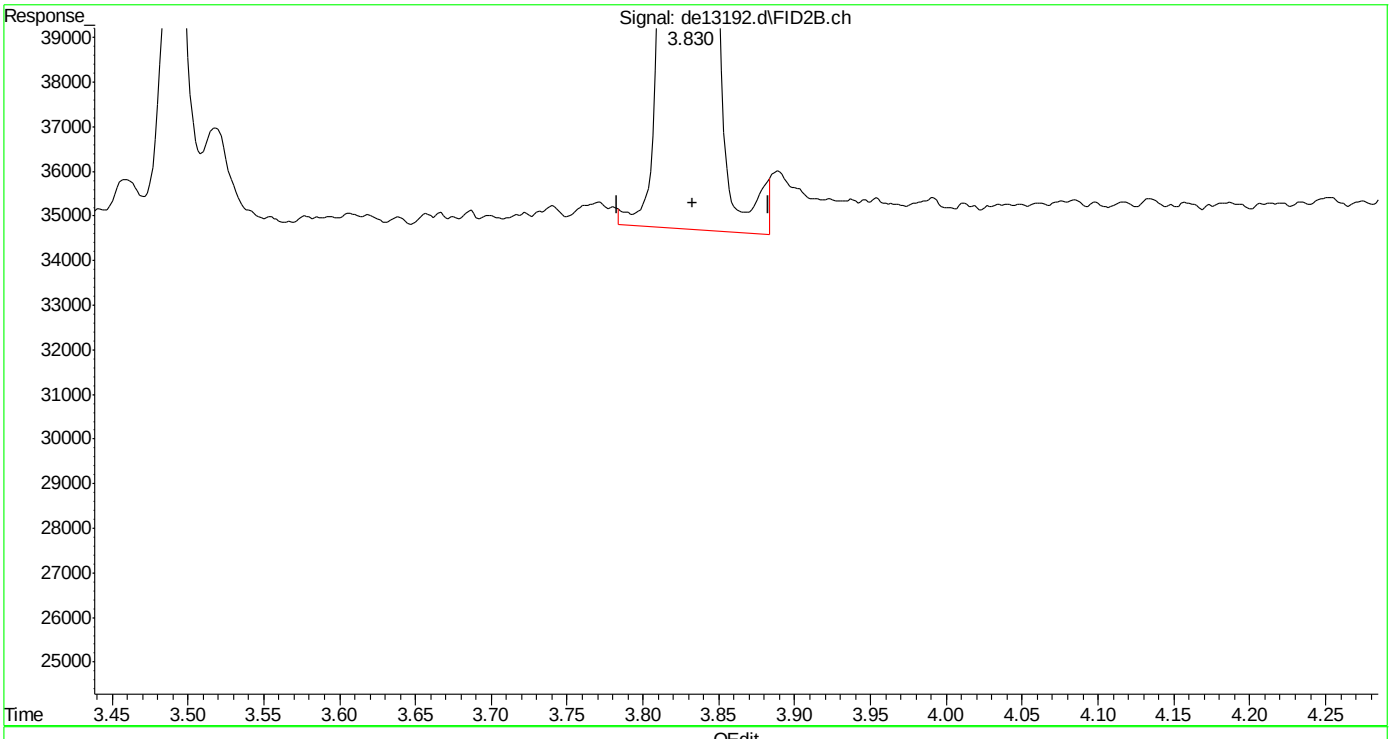
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(26) c-10 (h)
3.833min 2.166 µg/ml
response 160700

(+) = Expected Retention Time

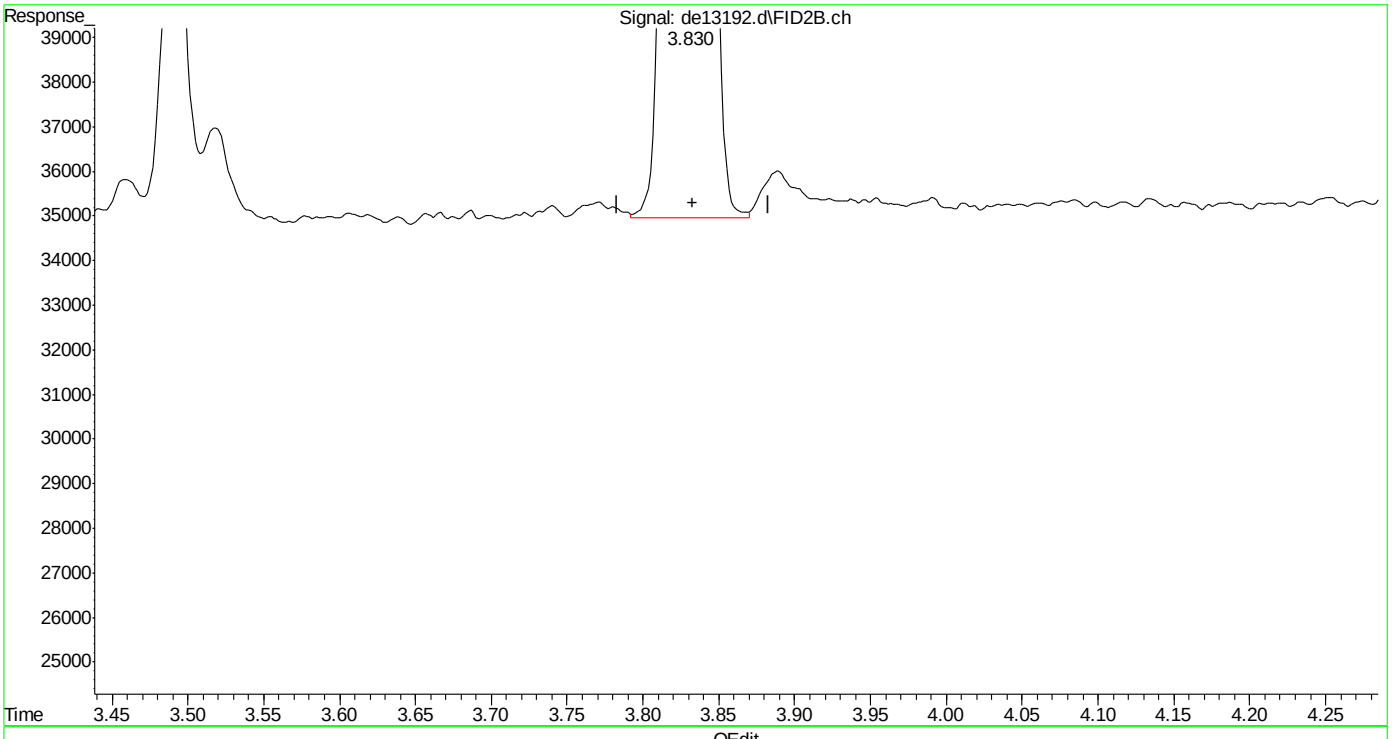
SGS ACCUTEST MC45799

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

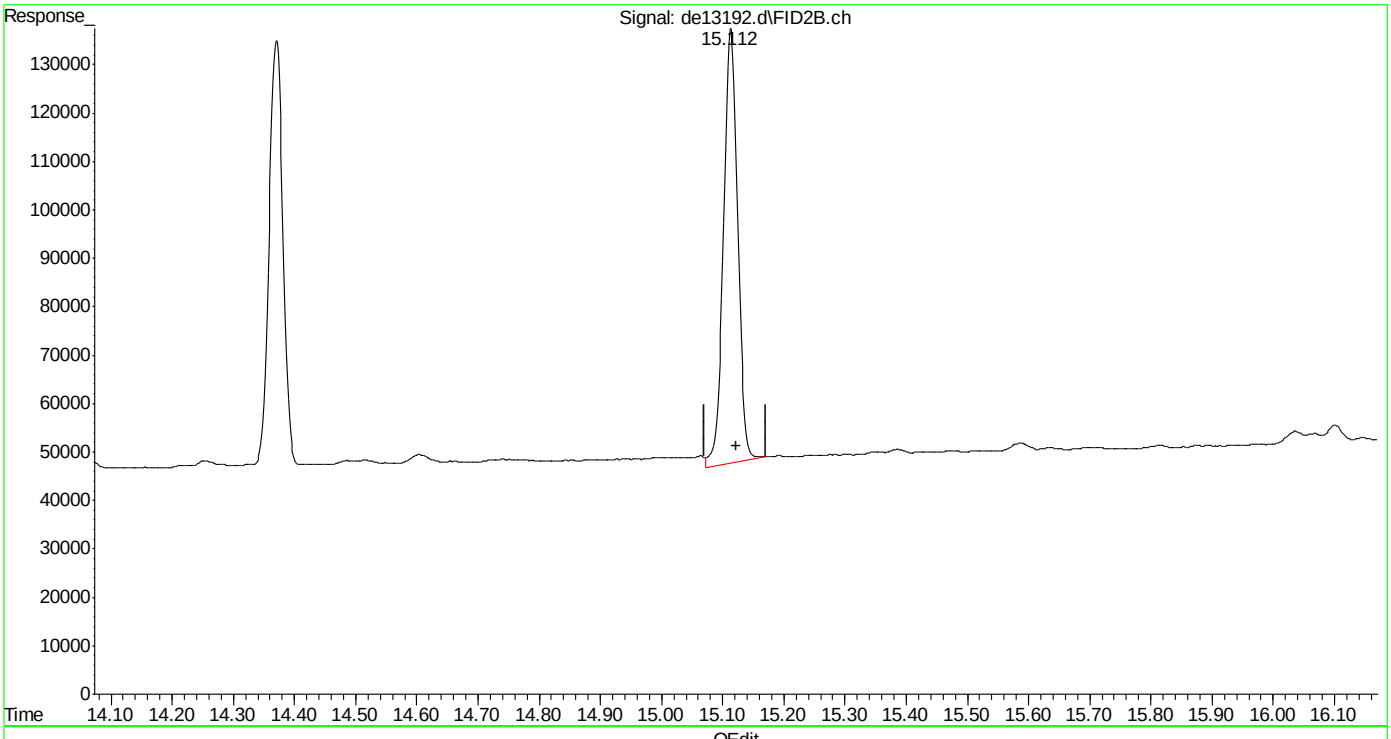
SGS ACCUTEST MC45799

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

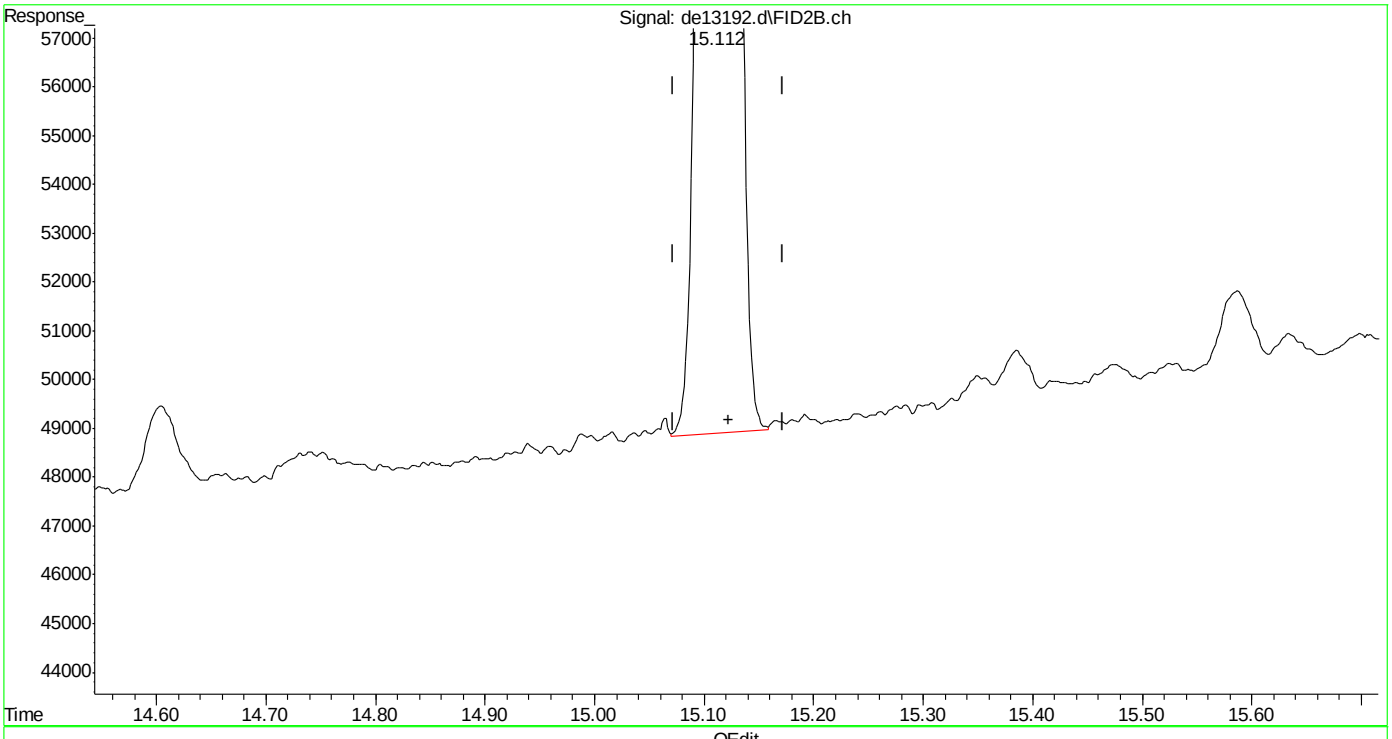
(+) = Expected Retention Time

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

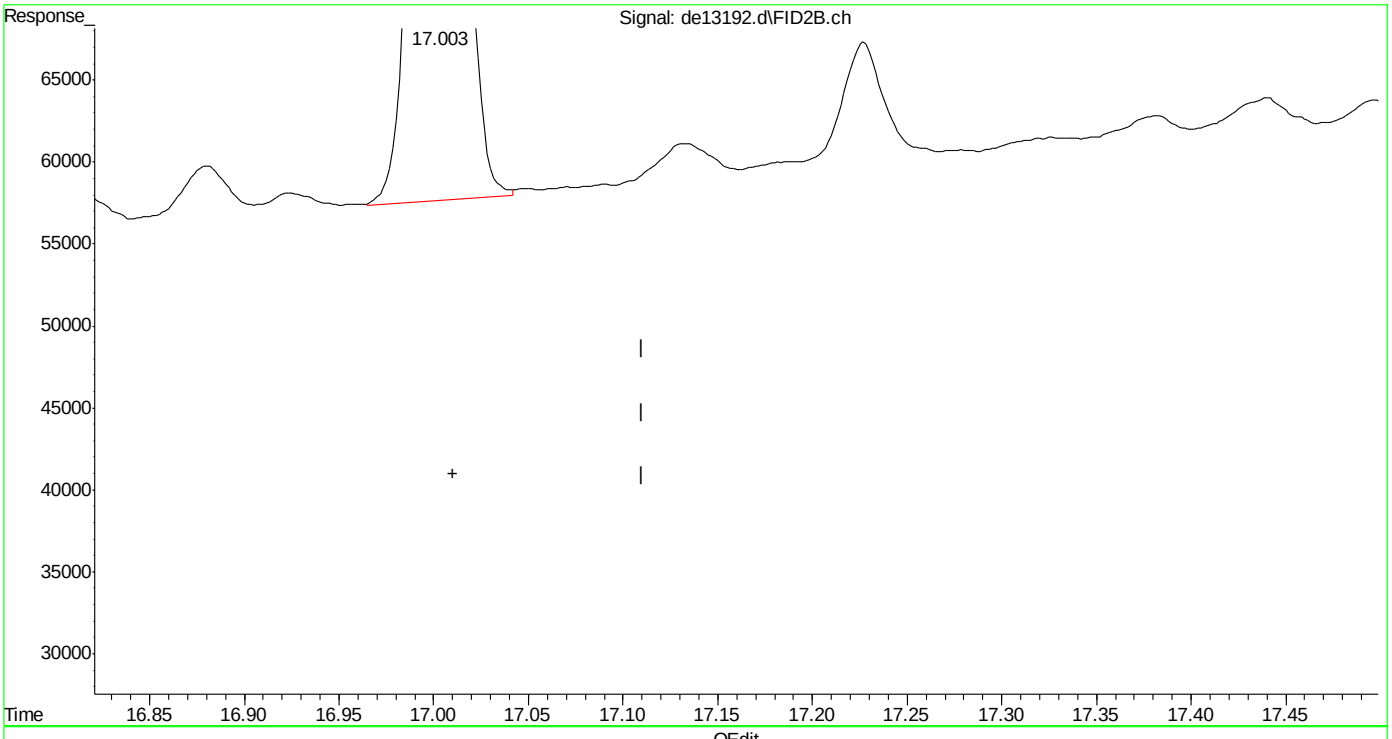
SGS ACCUTEST MC45799

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

EPH160204M.M Fri Feb 05 10:41:37 2016 Page: 1

SGS ACCUTEST MC45799

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.

9.4.3

9

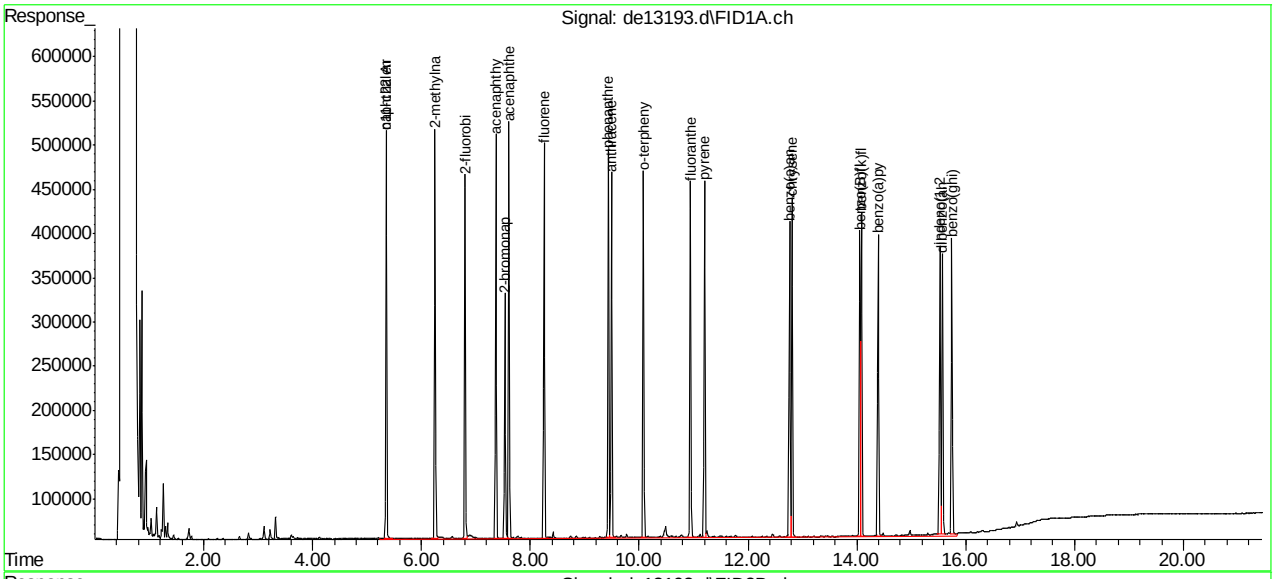
SGS ACCUTEST MC45799

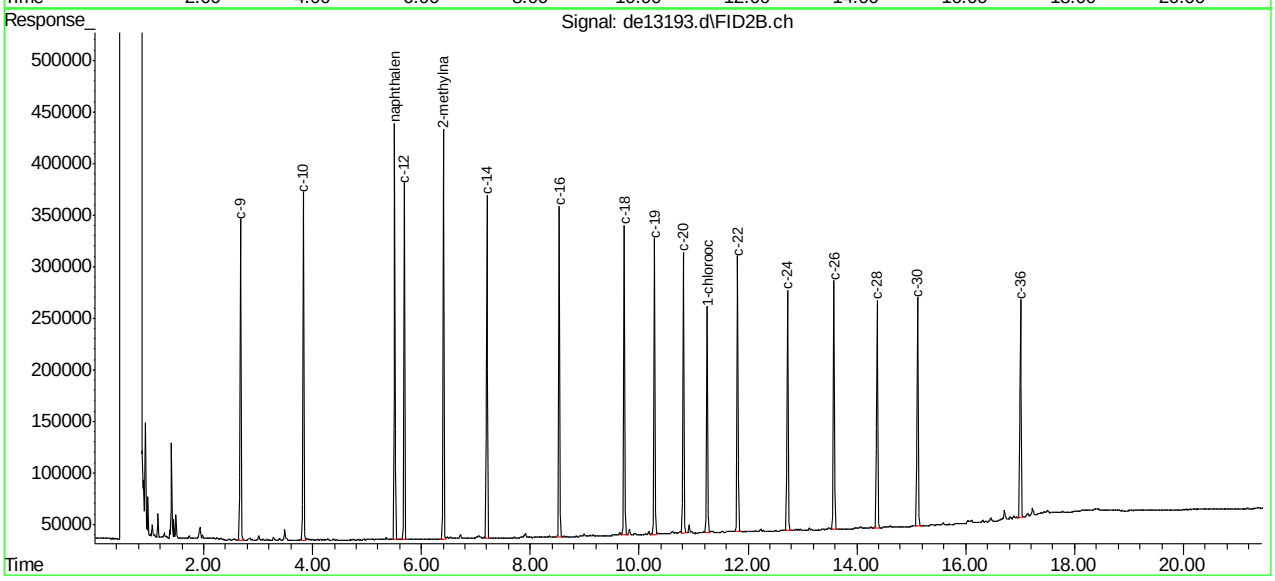
Quantitation Report (QT Reviewed)

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

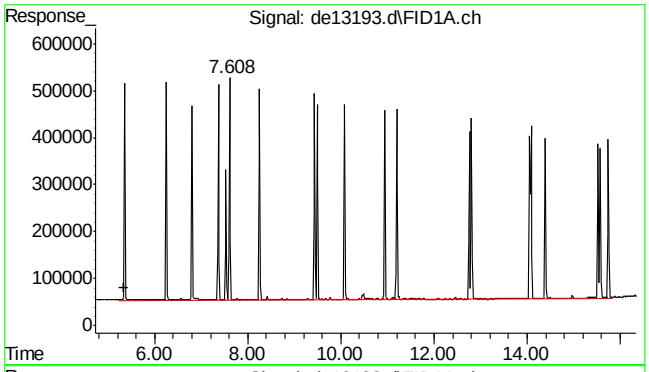
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



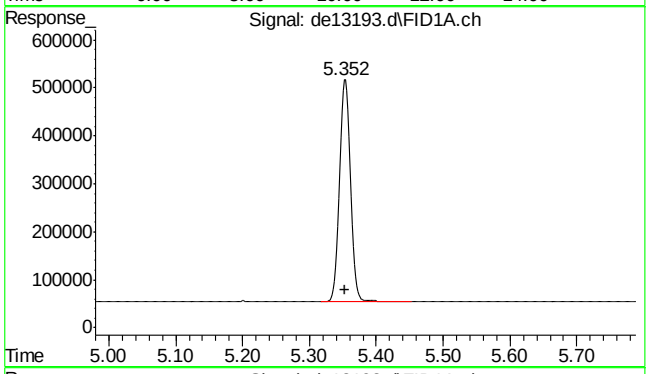


SGS ACCUTEST MC45799



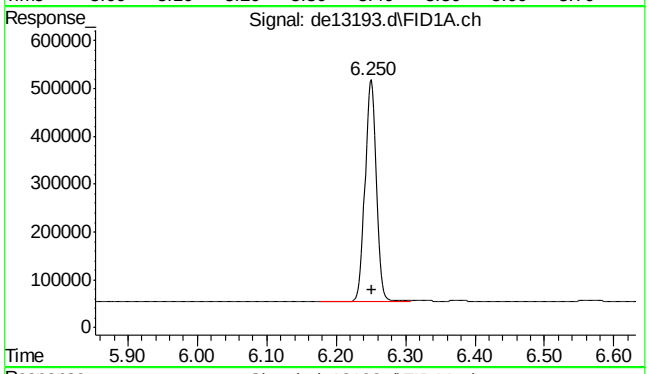
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



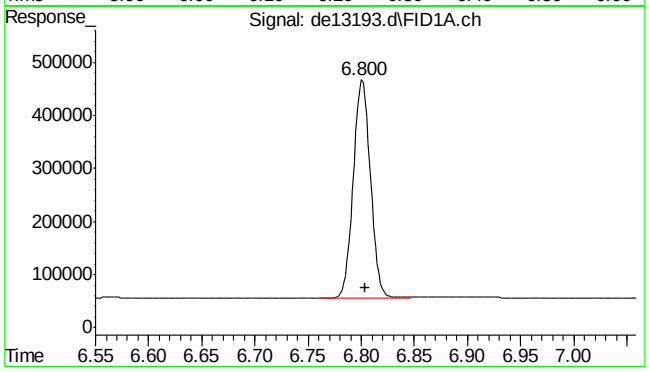
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



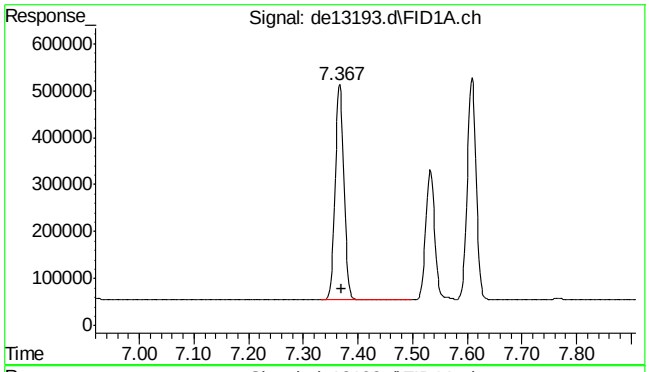
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

9.4.3

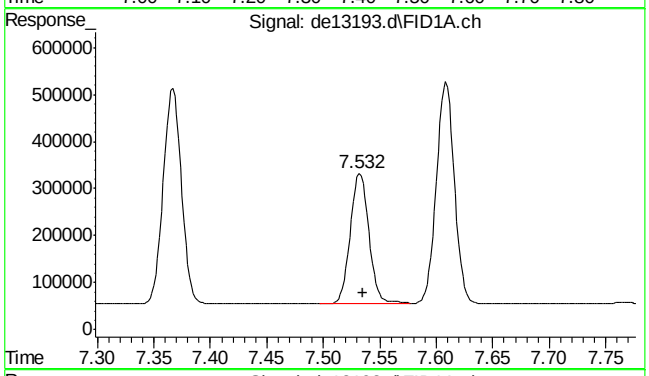
9

SGS ACCUTEST MC45799



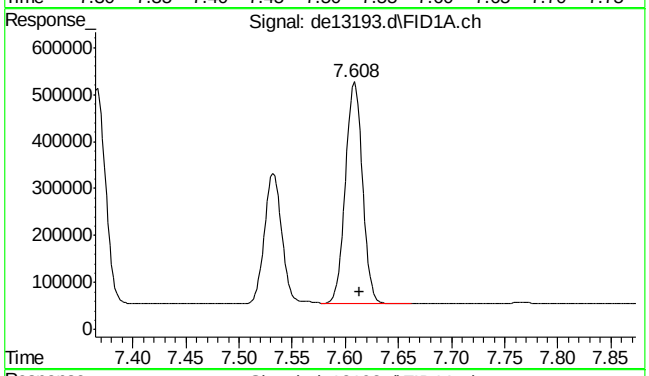
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



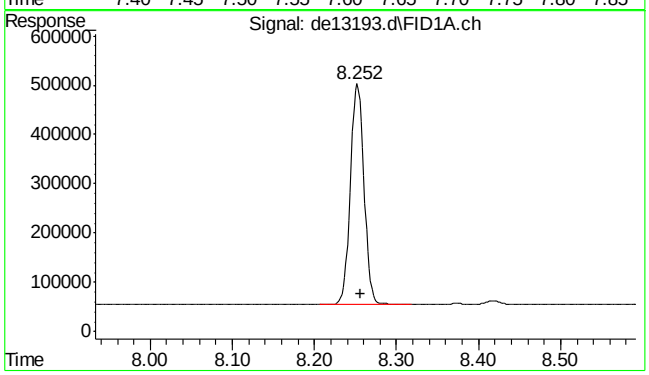
#6 2-bromonaphthalene

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



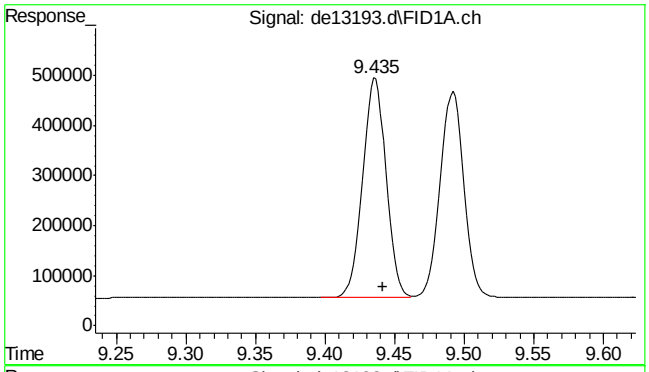
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.4.3

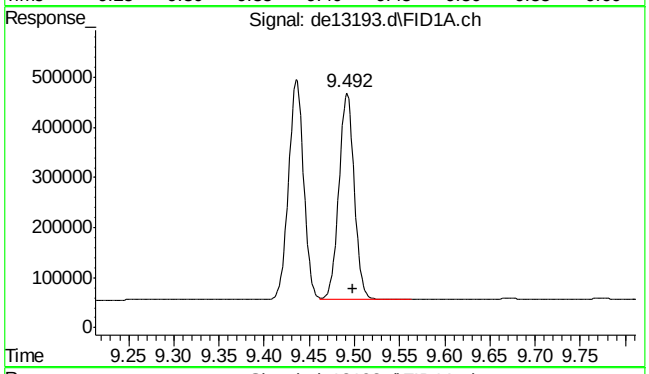
9

SGS ACCUTEST MC45799



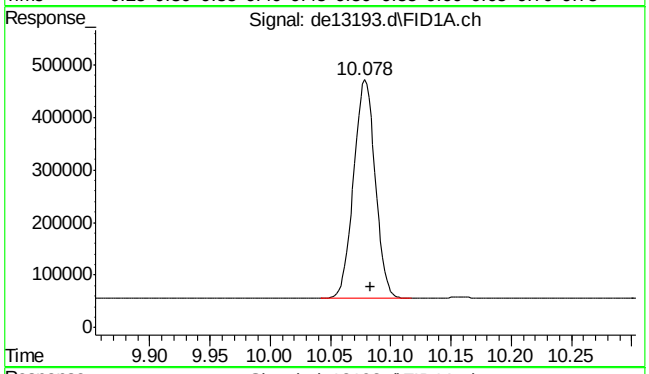
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



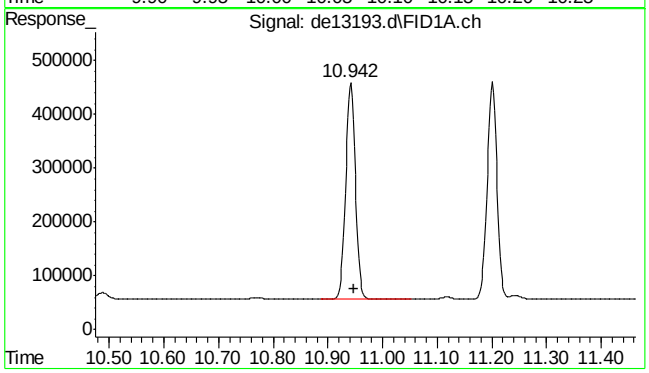
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



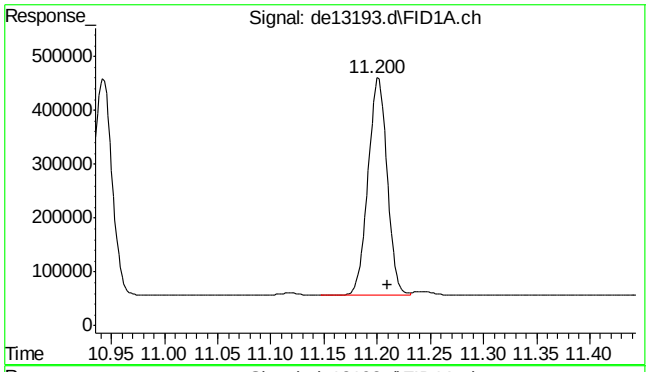
#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

9.4.3

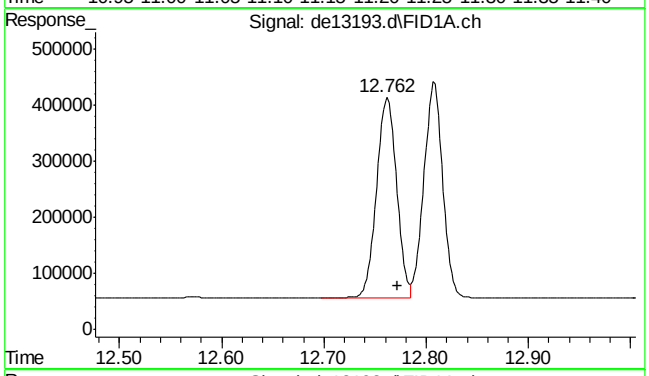
9

SGS ACCUTEST MC45799



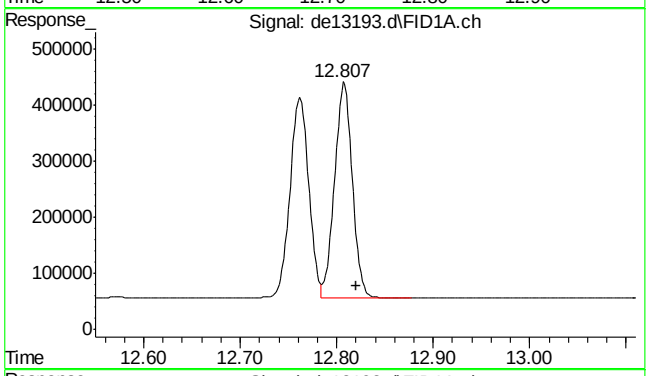
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



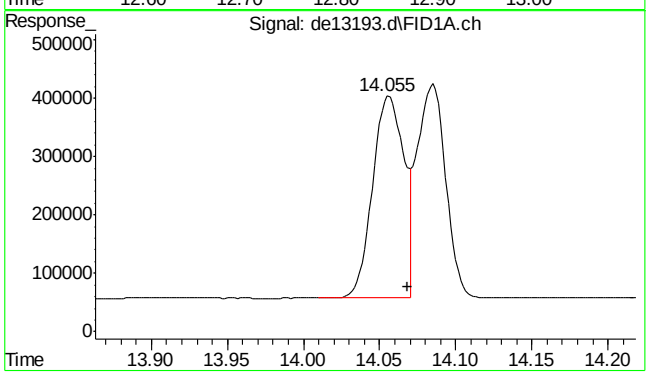
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

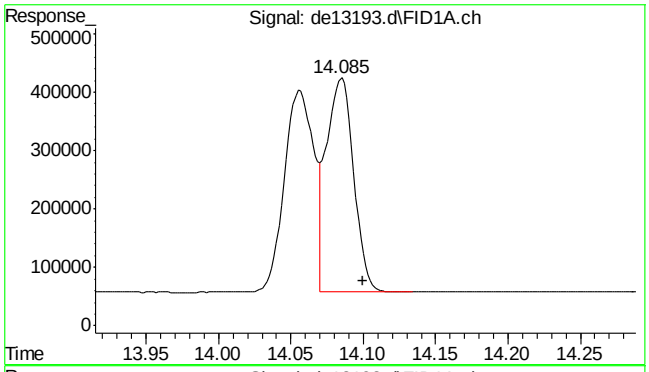
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

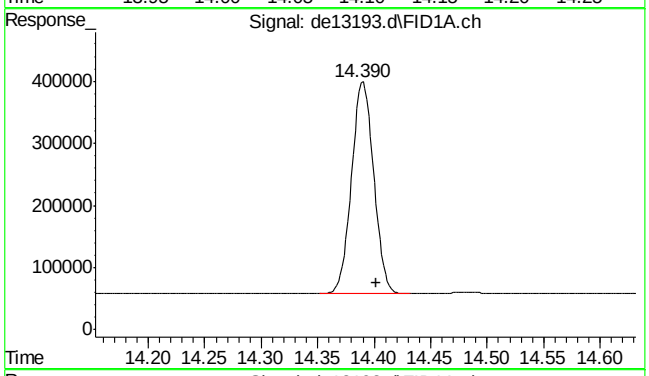
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45799



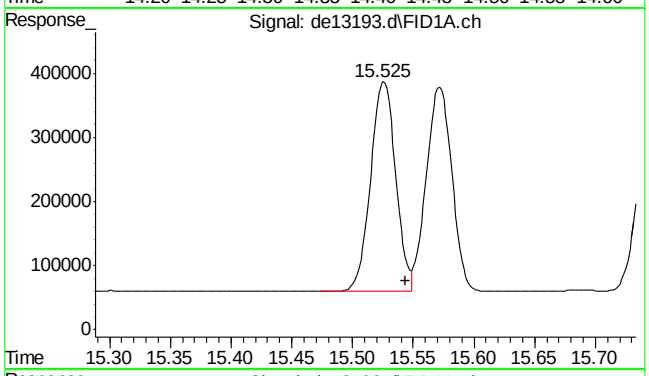
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



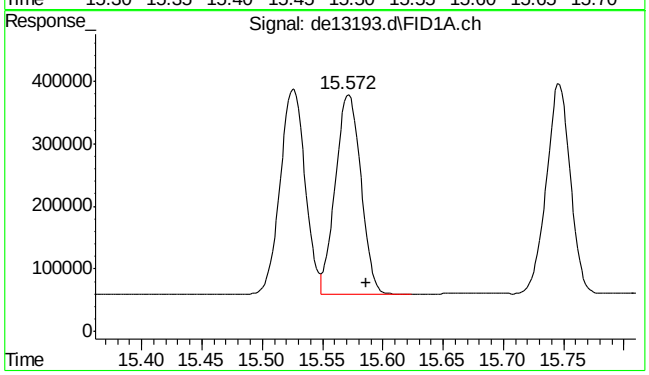
#18 benzo(a)pyrene

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



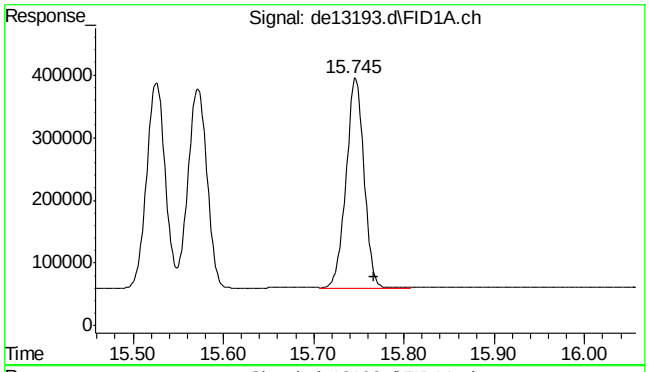
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.4.3

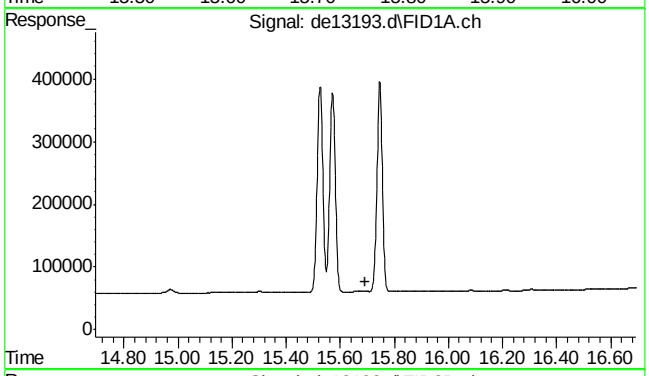
9

SGS ACCUTEST MC45799



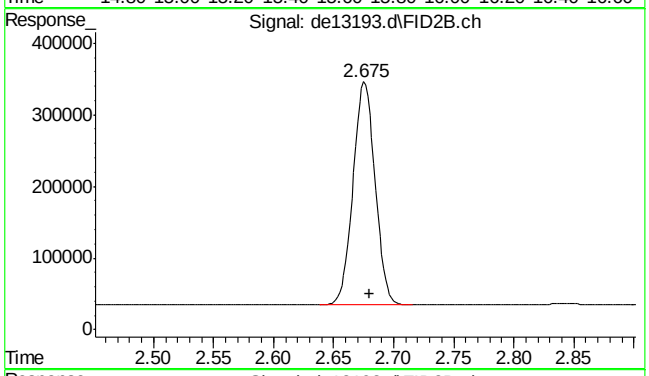
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



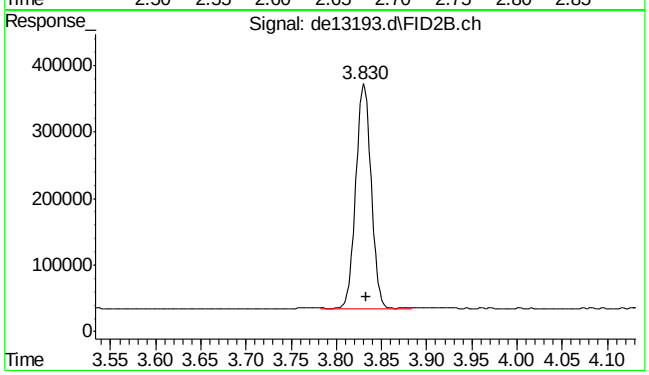
#22 bht

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



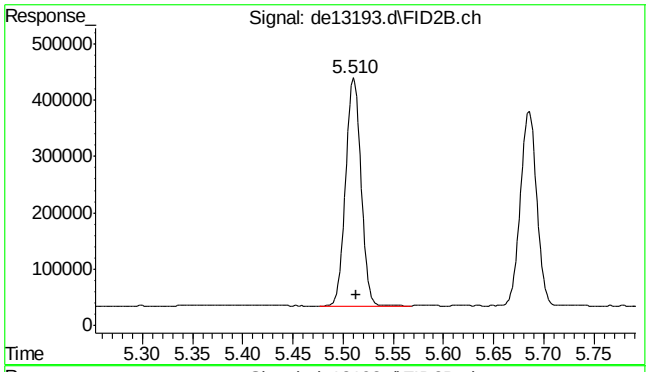
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.4.3

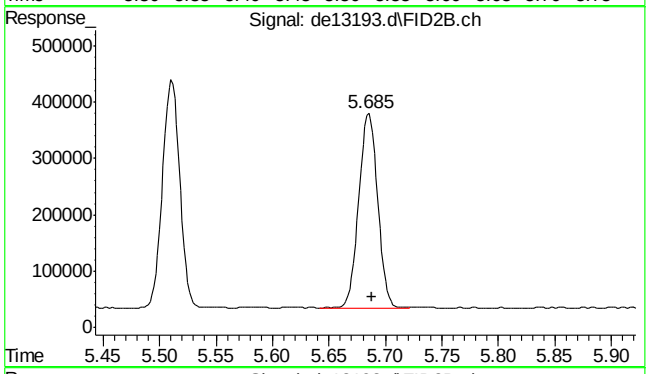
9

SGS ACCUTEST MC45799



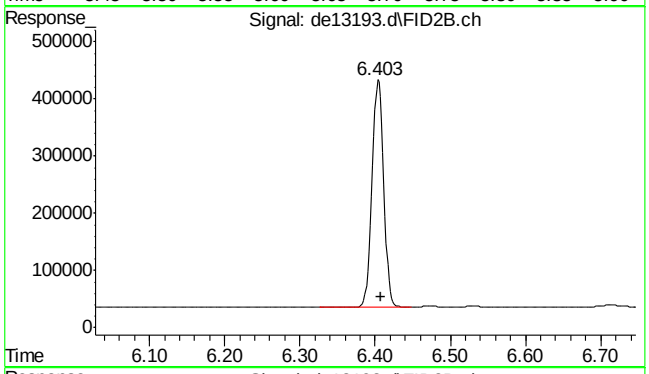
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



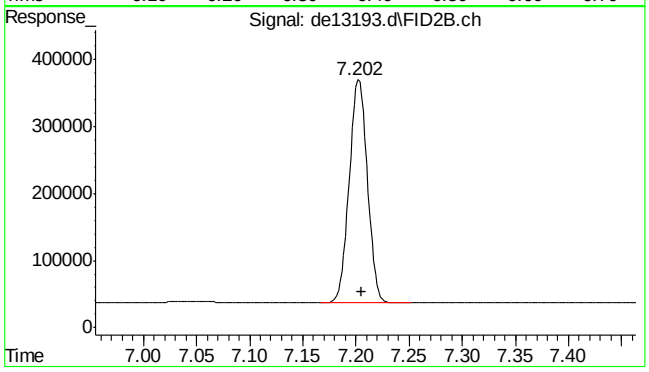
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

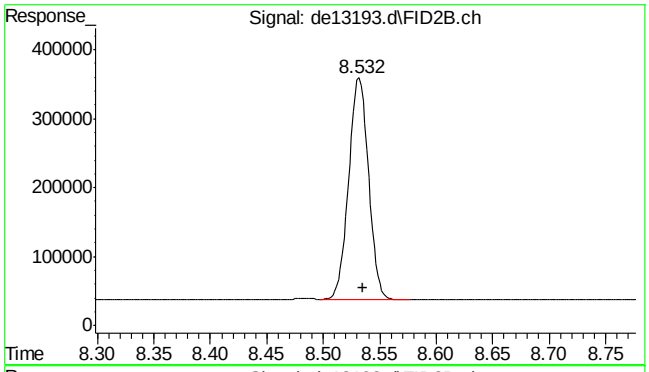
R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



#30 c-14

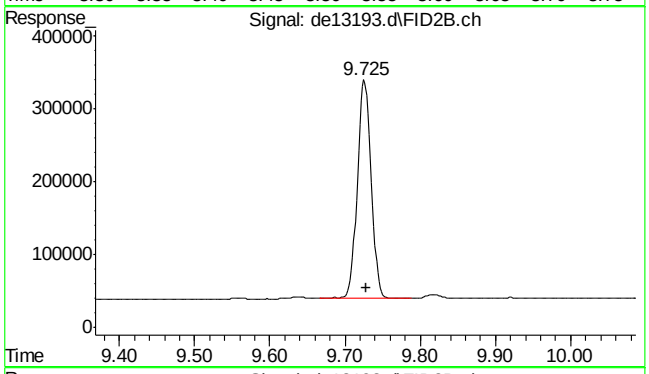
R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

SGS ACCUTEST MC45799



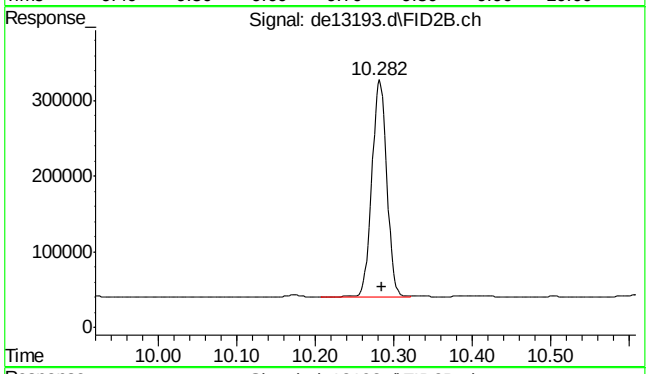
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



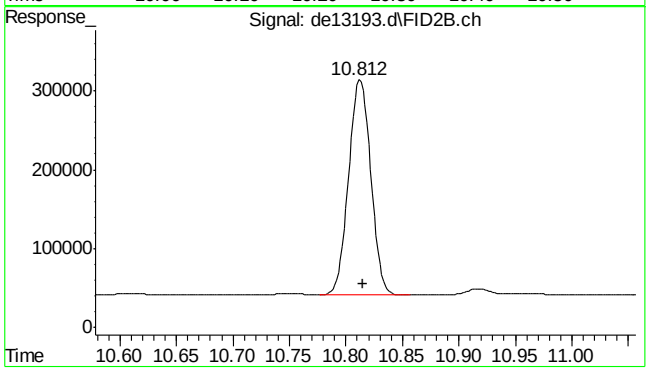
#32 c-18

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



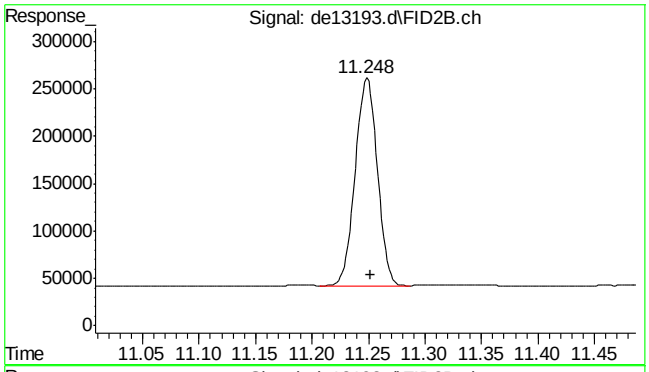
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.4.3

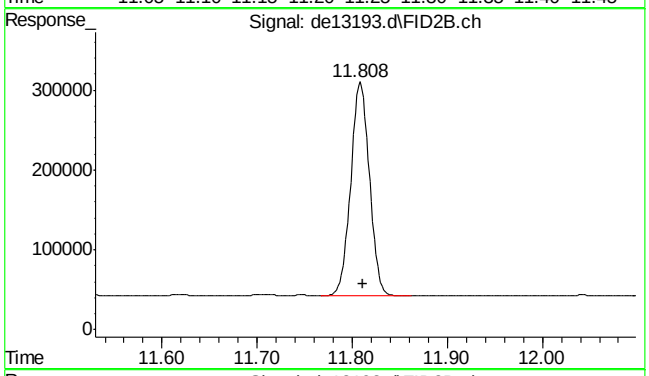
9

SGS ACCUTEST MC45799



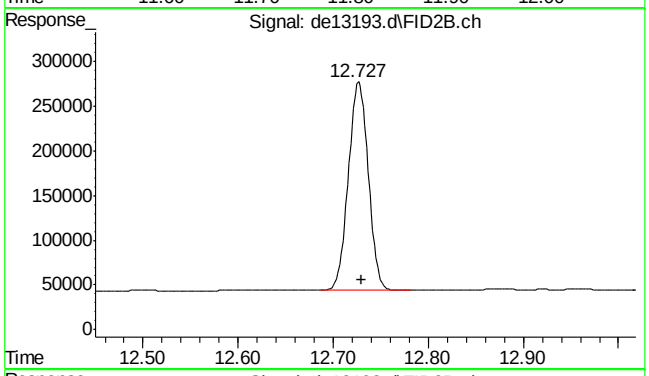
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



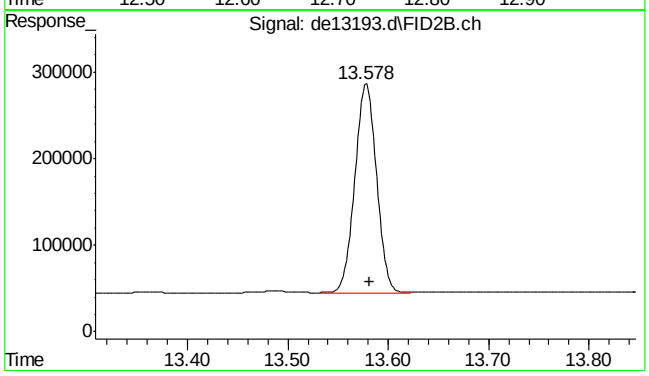
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



#37 c-24

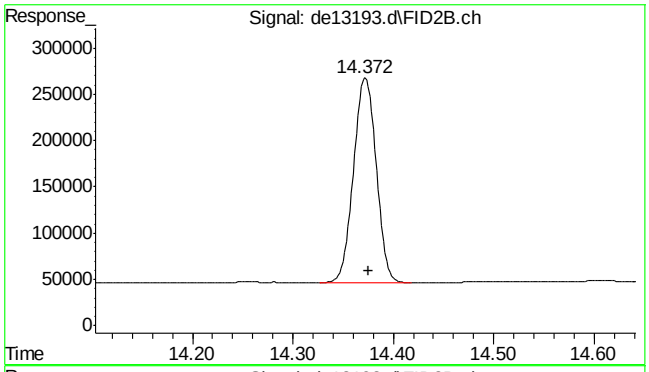
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



#38 c-26

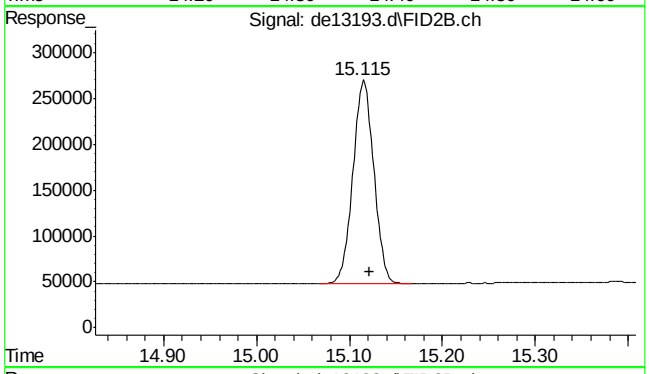
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

SGS ACCUTEST MC45799



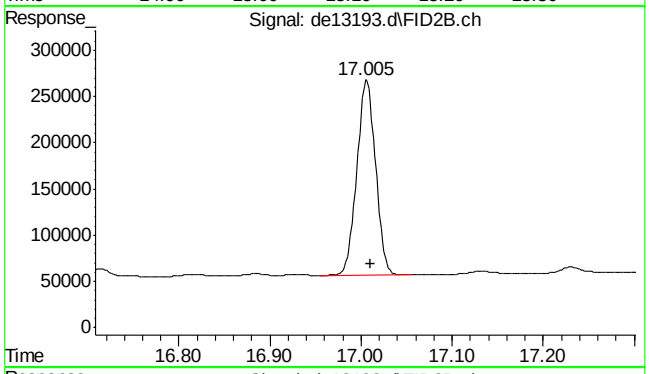
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



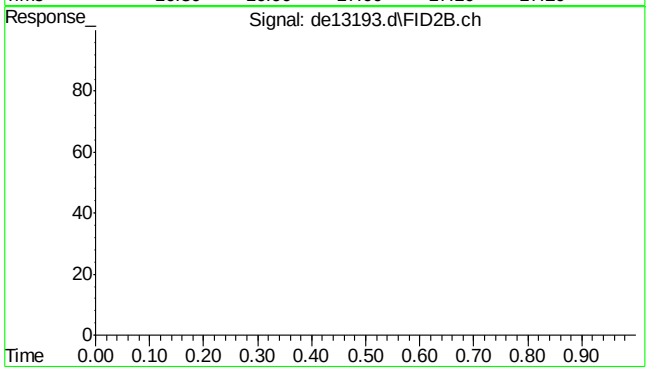
#40 c-30

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



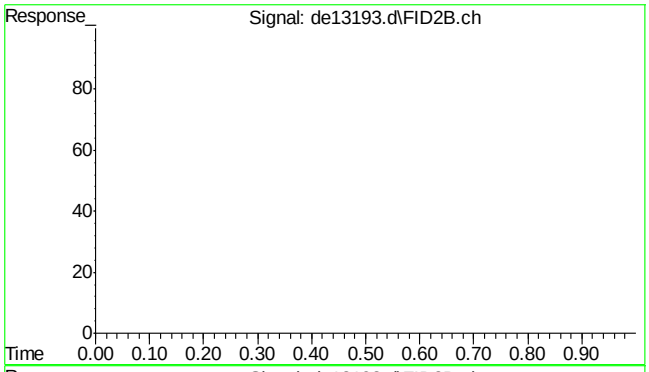
#42 bht

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

9.4.3

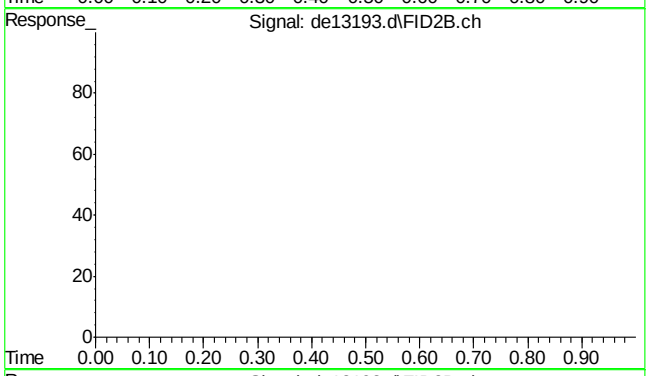
9

SGS ACCUTEST MC45799



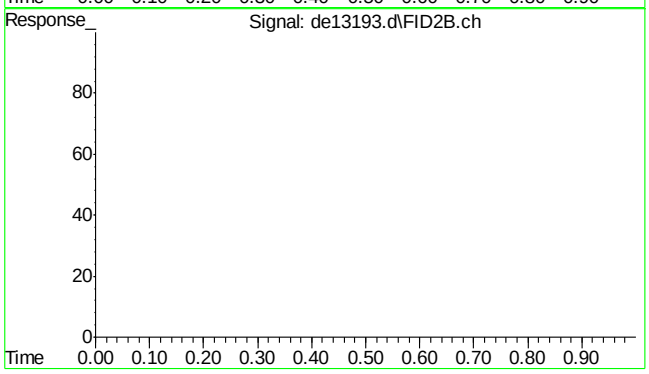
#43 bht

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.

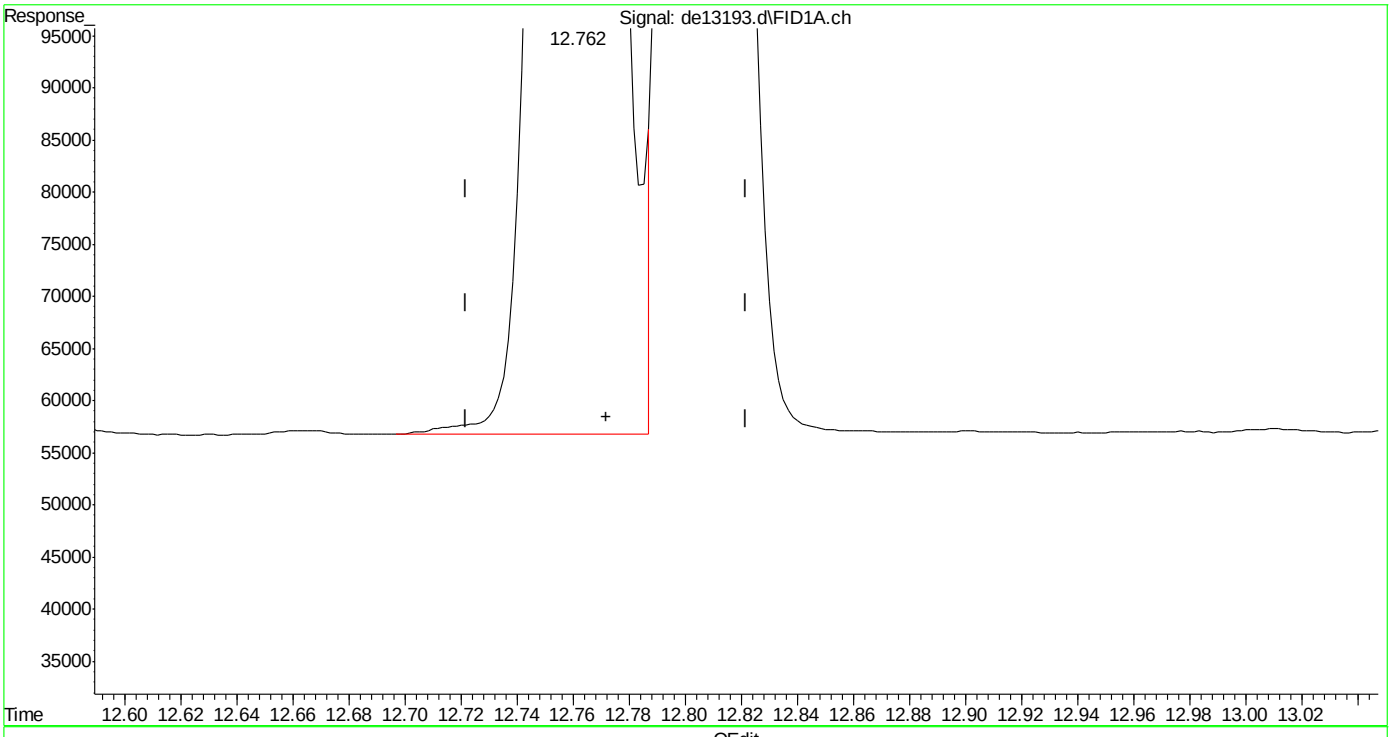
SGS ACCUTEST MC45799

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

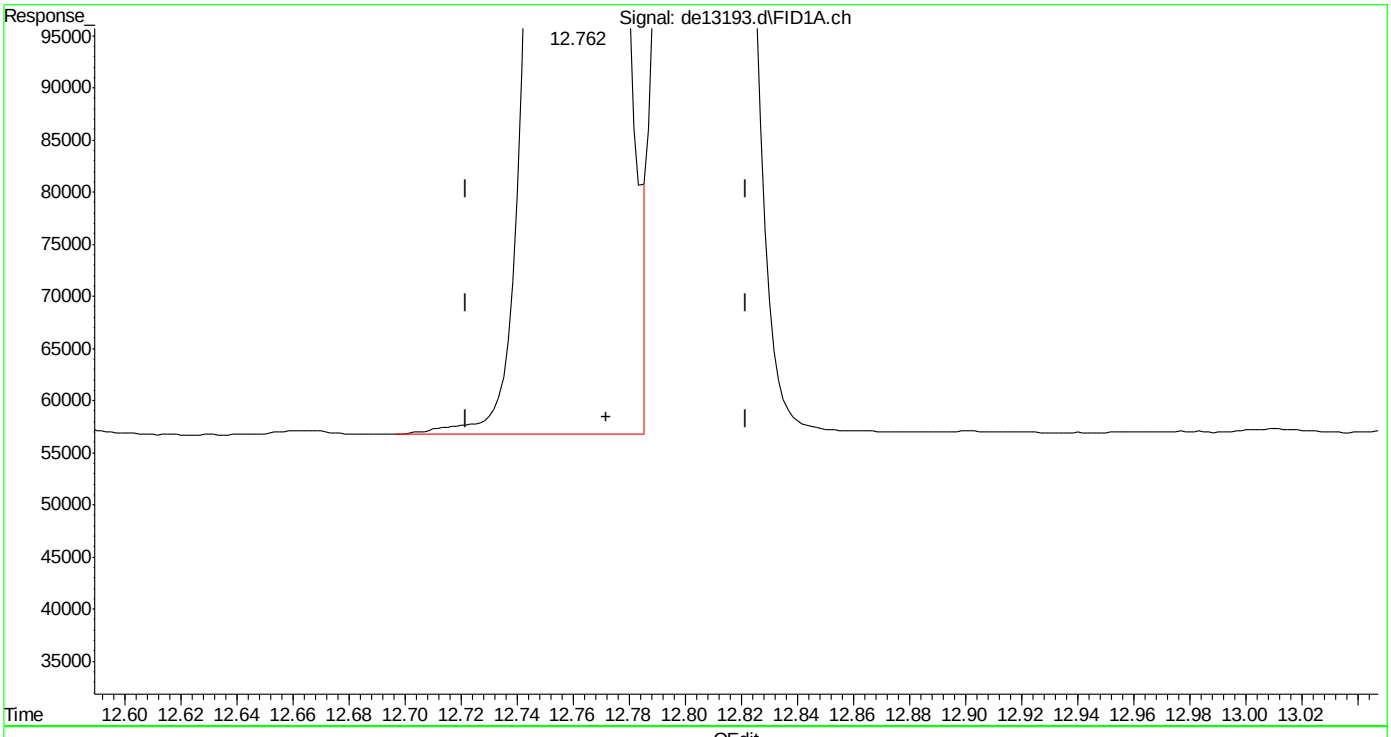
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:12 2016

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

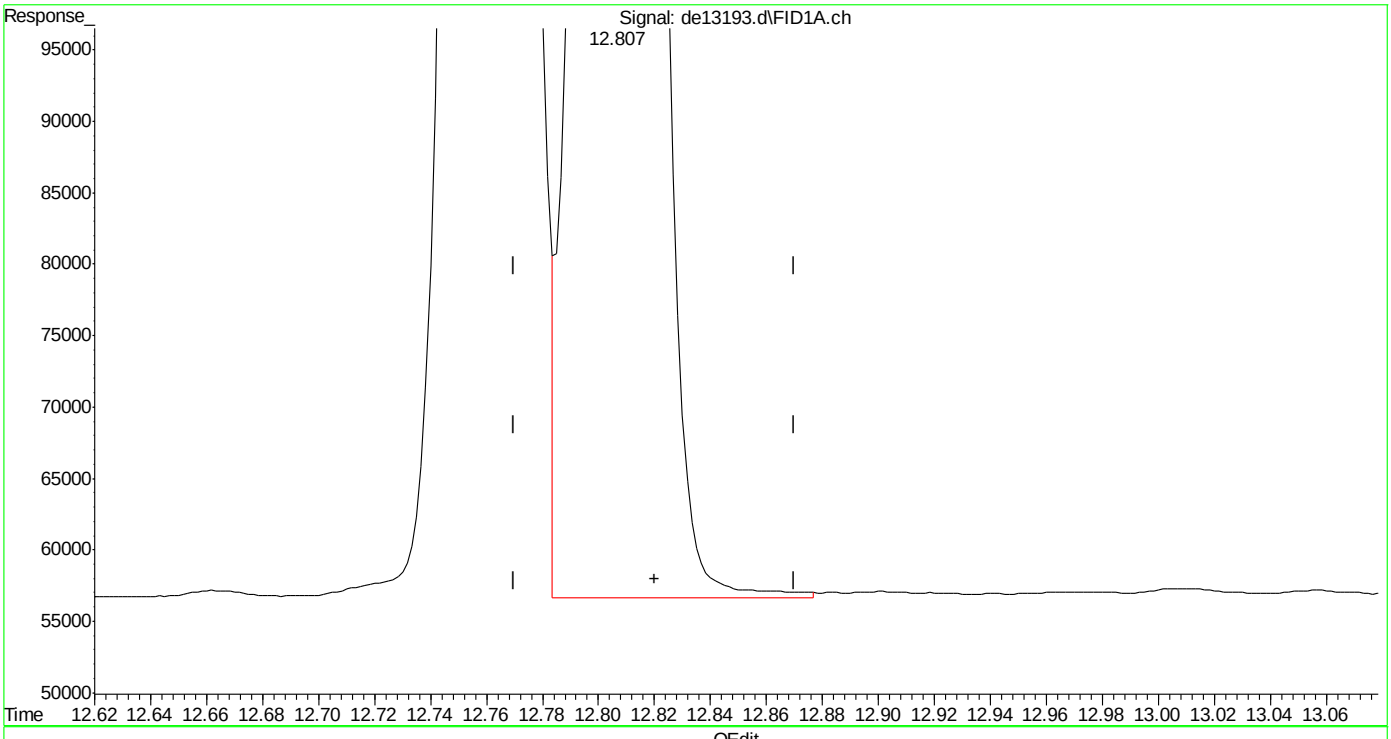
SGS ACCUTEST MC45799

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

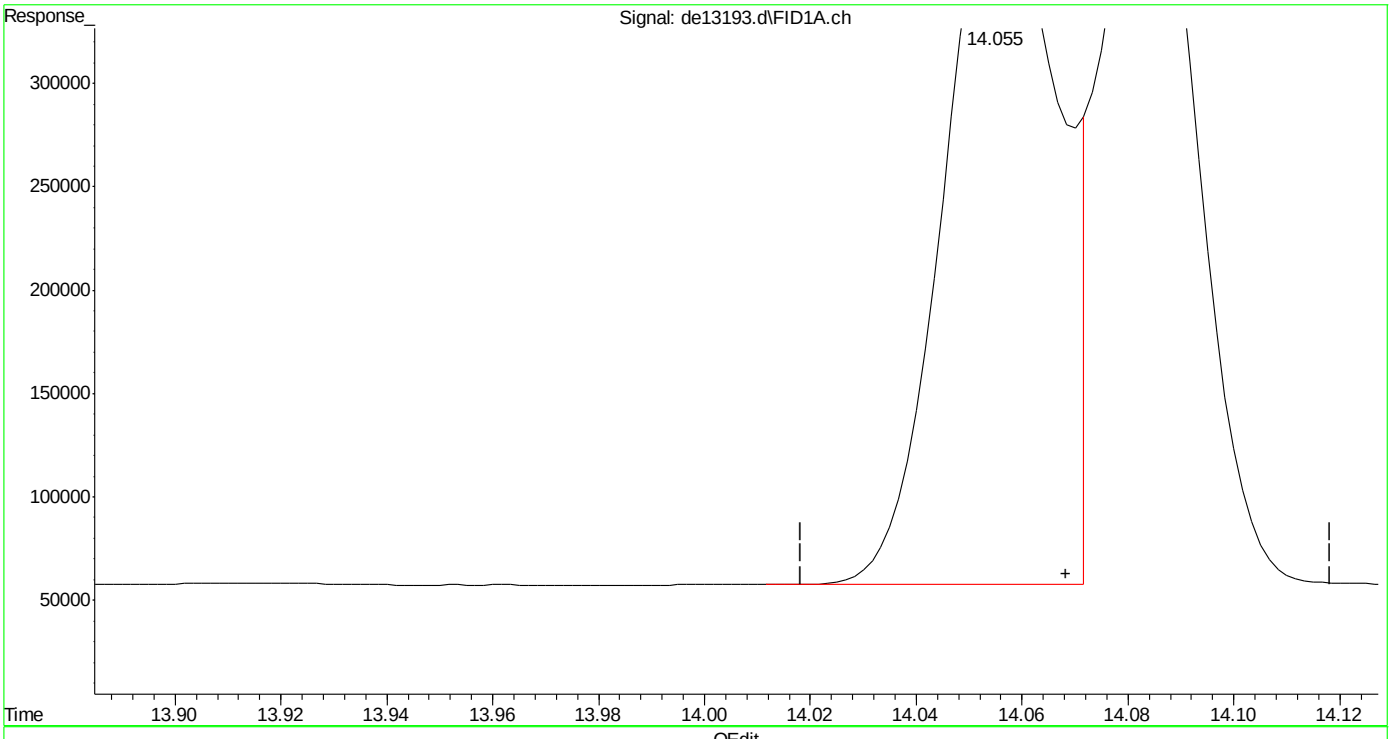
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:42:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.055min 5.155 µg/ml
response 522606

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:50 2016

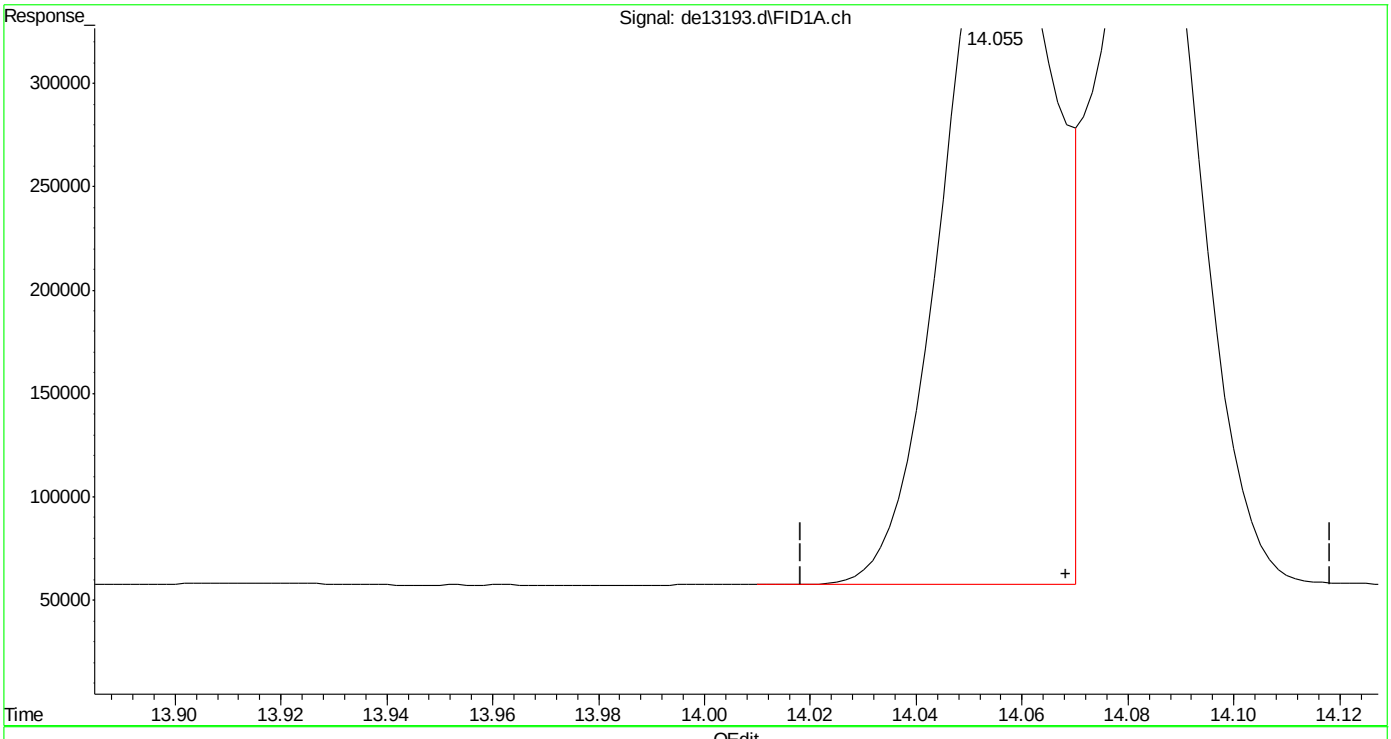
SGS ACCUTEST MC45799

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

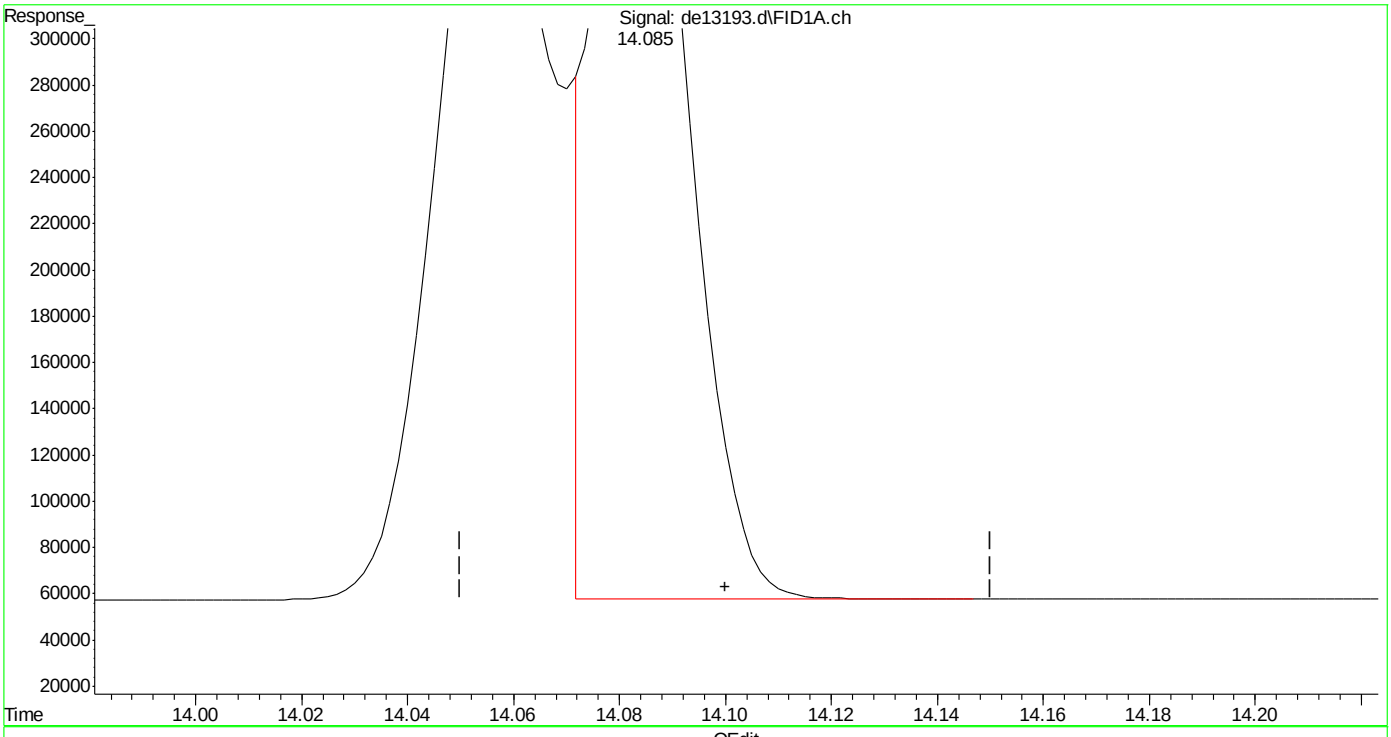
SGS ACCUTEST MC45799

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

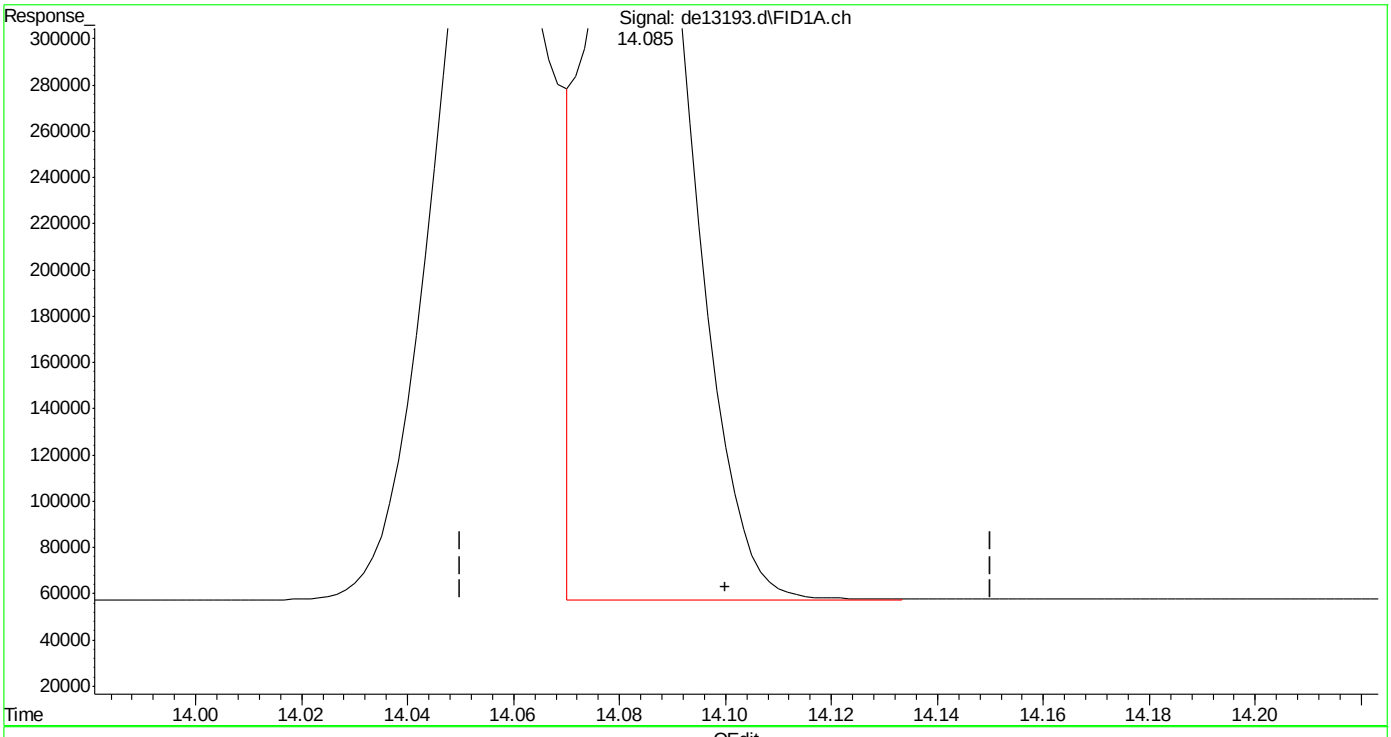
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:44:00 2016

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

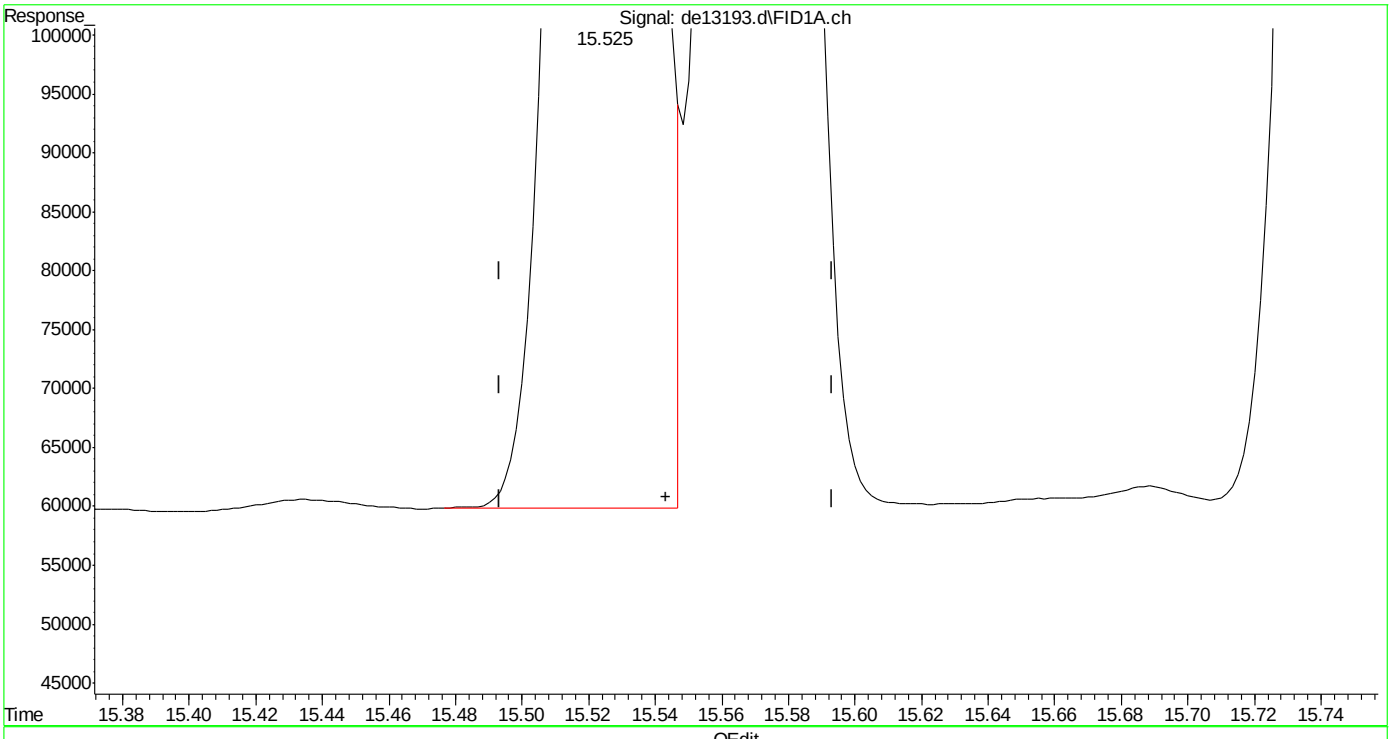
SGS ACCUTEST MC45799

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

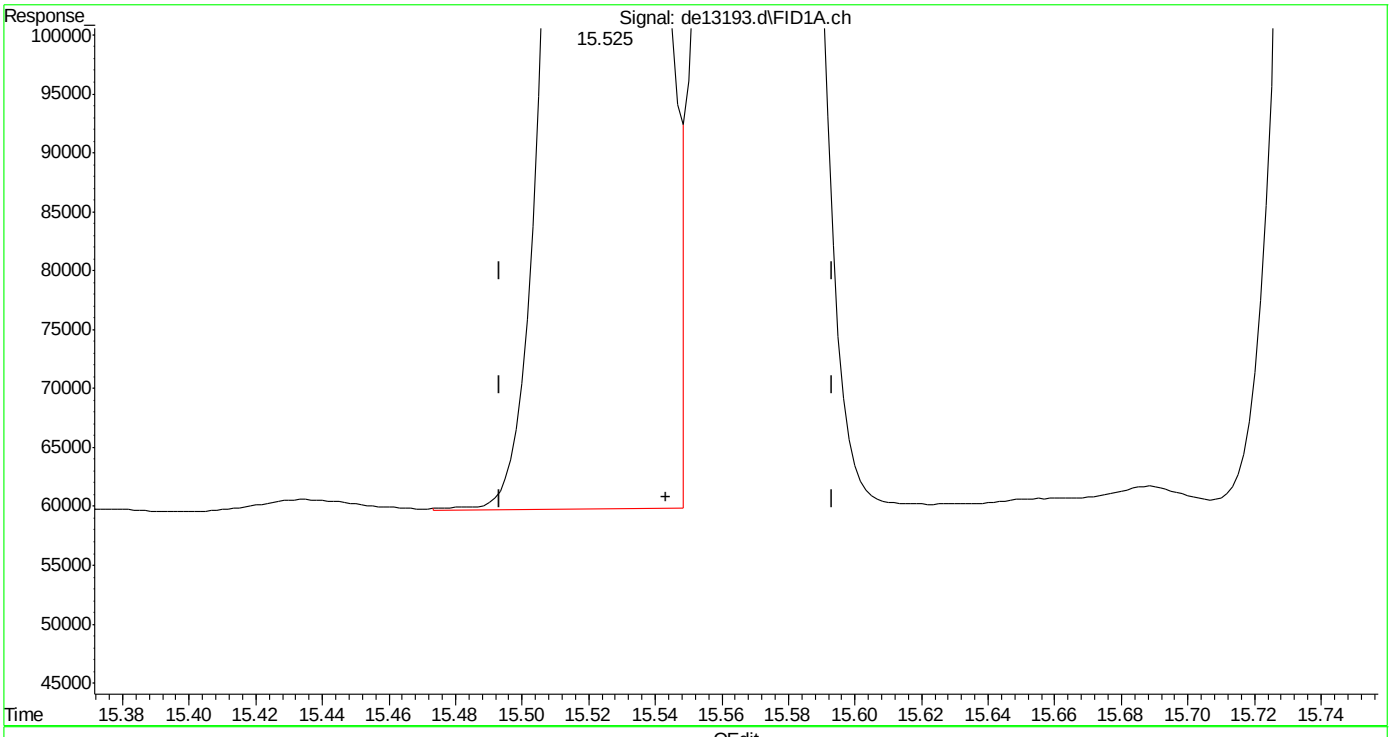
SGS ACCUTEST MC45799

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

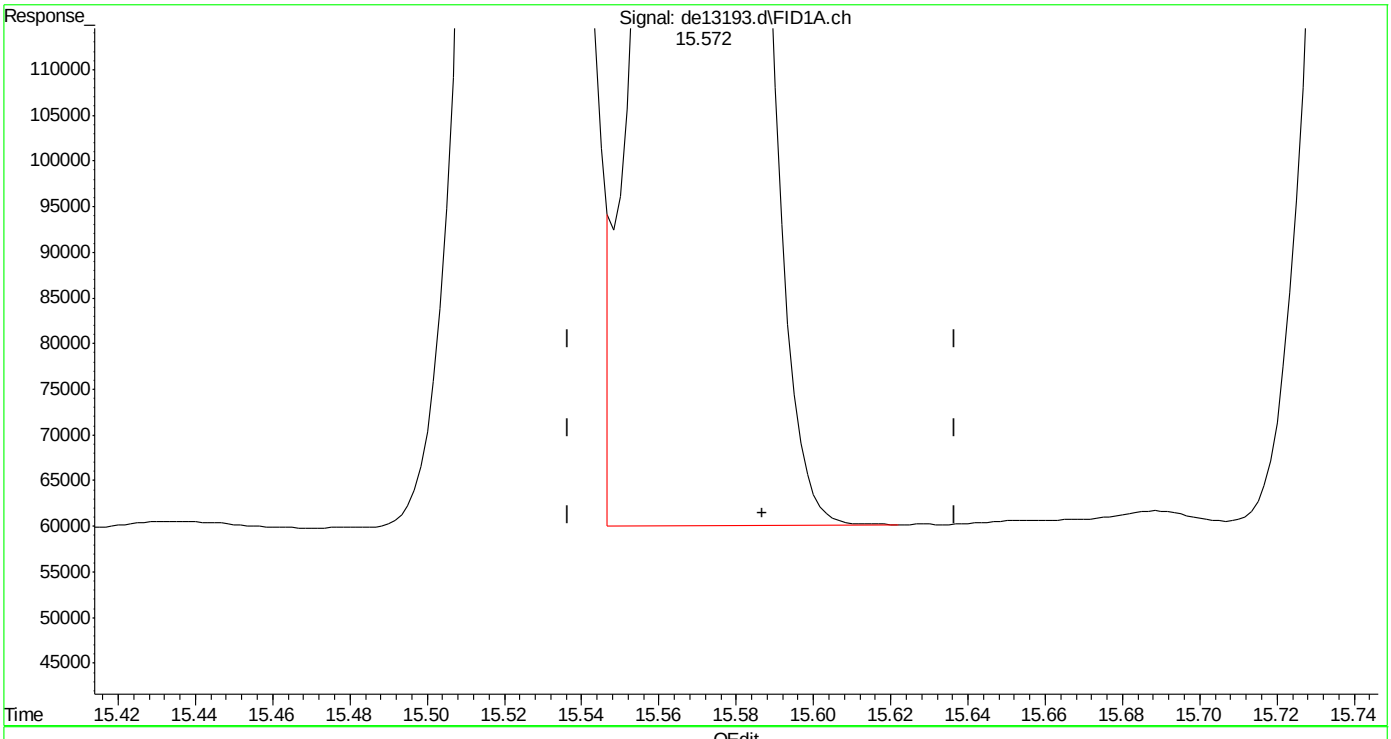
SGS ACCUTEST MC45799

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

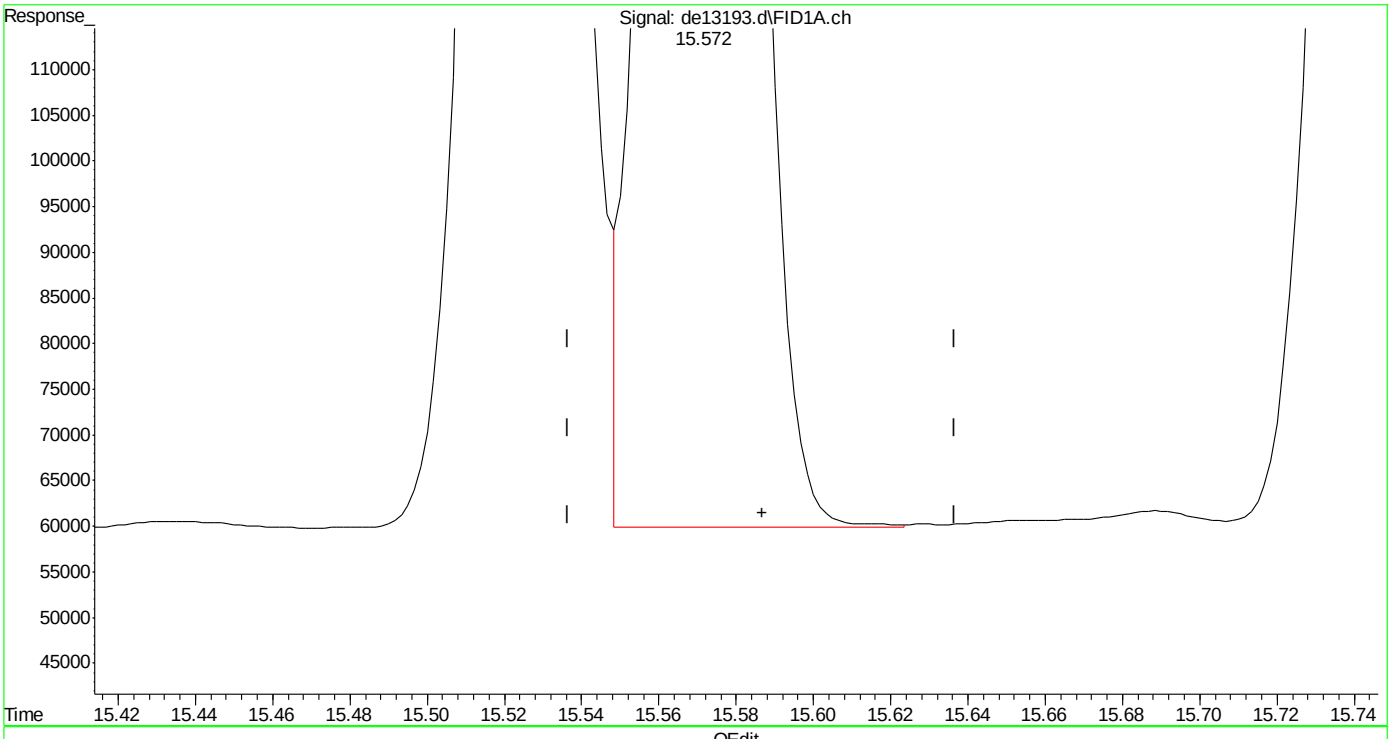
SGS ACCUTEST MC45799

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

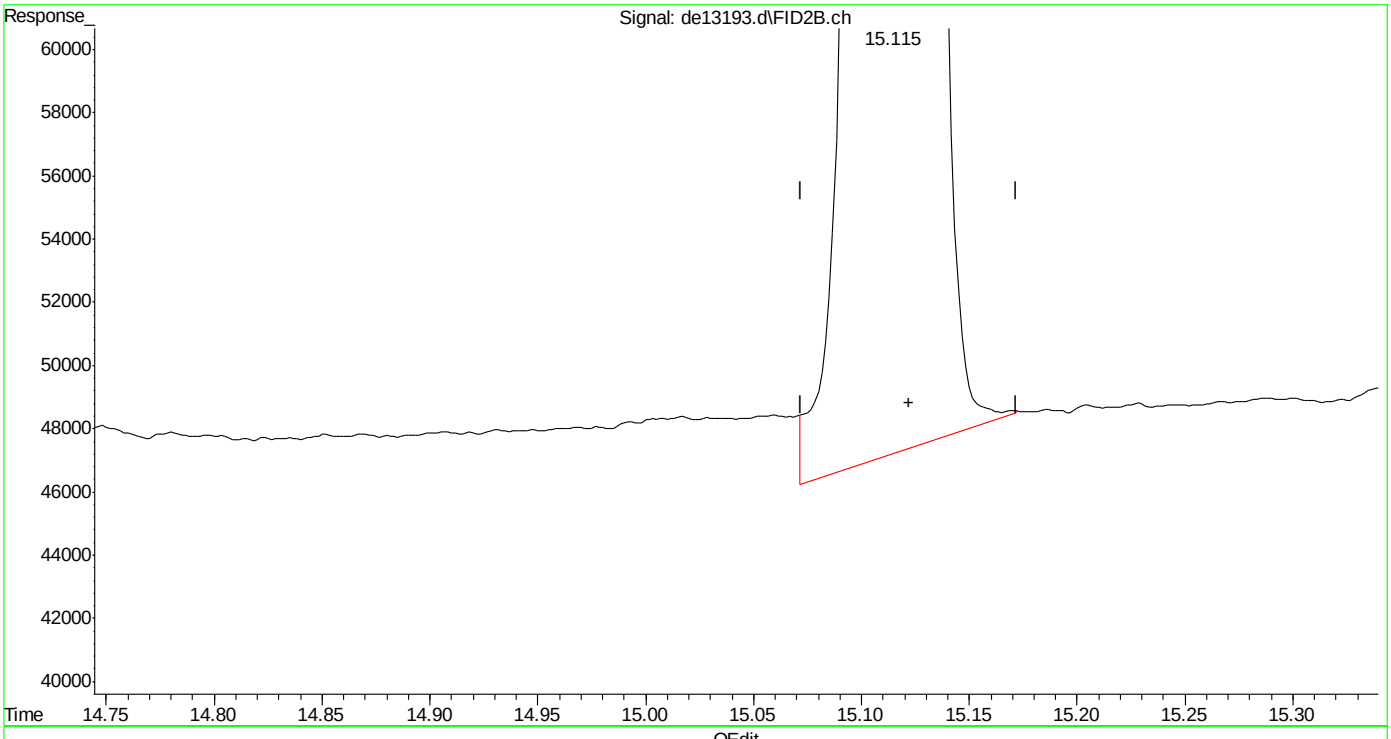
(+) = Expected Retention Time

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

SGS ACCUTEST MC45799

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

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.580	1435543	20.577	µg/ml
39)		c-28	14.373	1385739	20.519	µg/ml
40)	h	c-30	15.122	1377048	20.029	µg/mlm
41)	h	c-36	17.010	1222680	20.011	µg/mlm

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

9.4.4

9

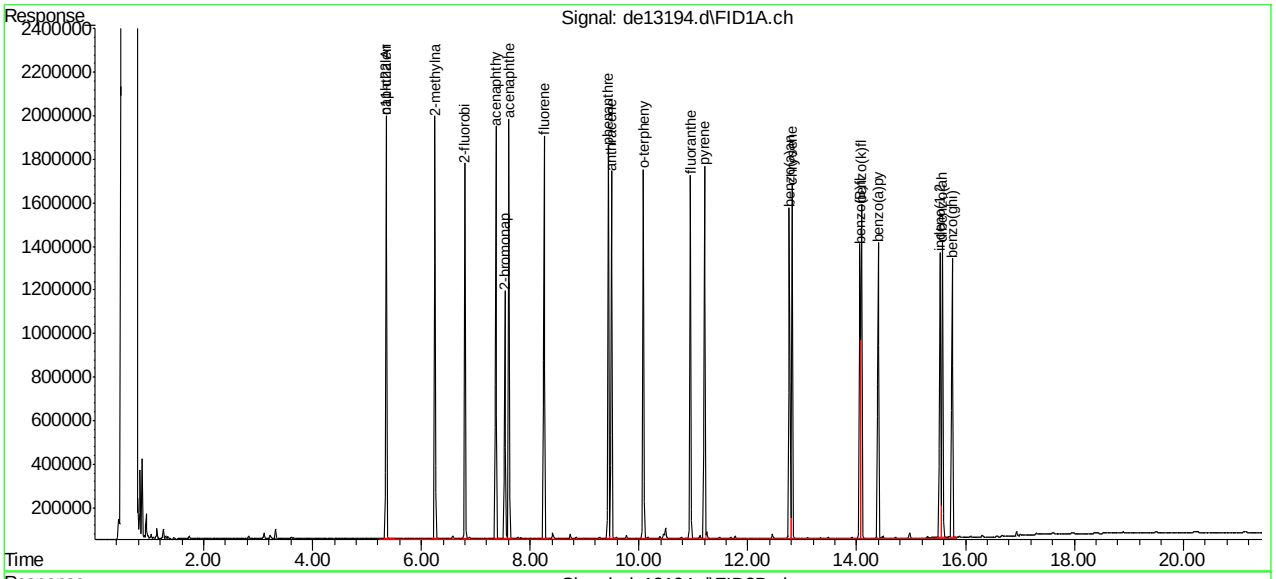
SGS ACCUTEST MC45799

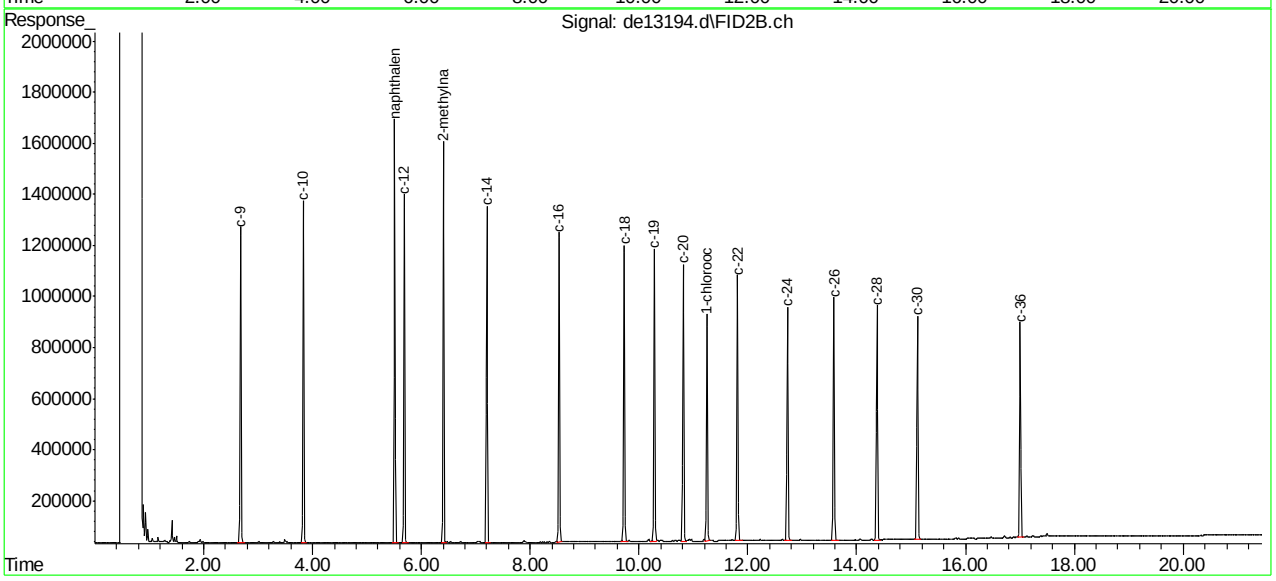
Quantitation Report (QT Reviewed)

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

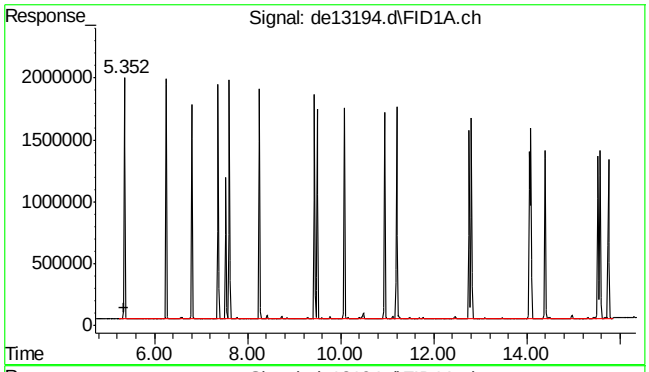
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



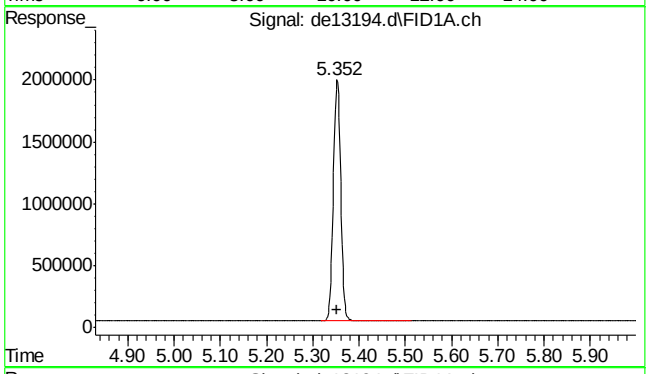


SGS ACCUTEST MC45799



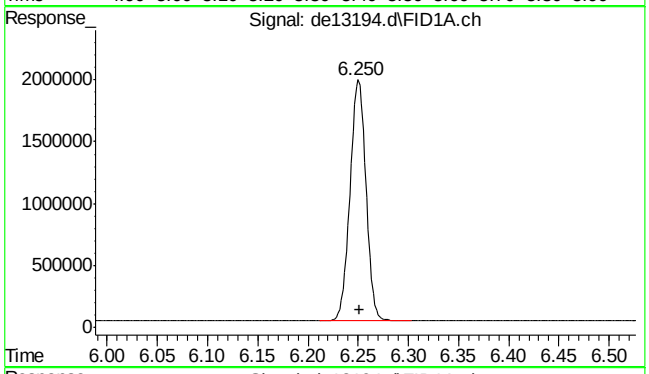
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



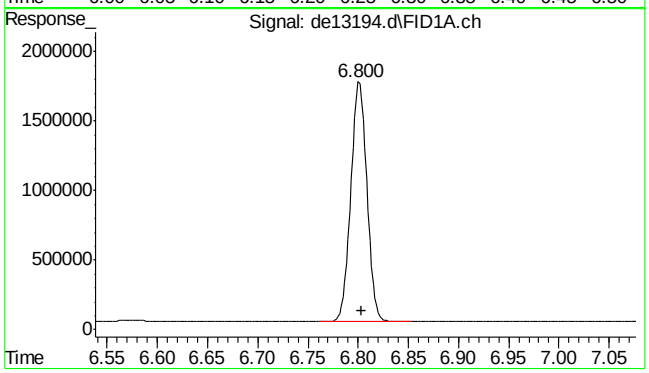
#2 naphthalene

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



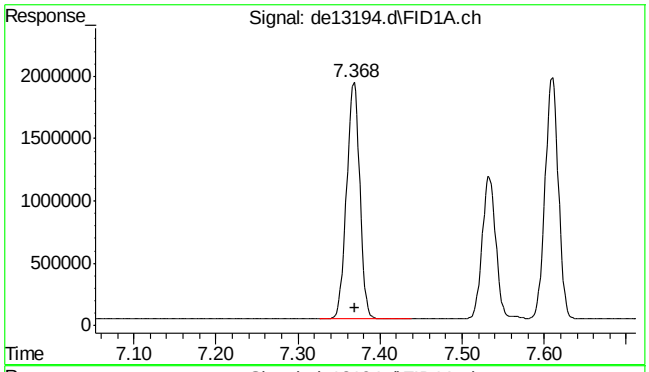
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml

9.4.4

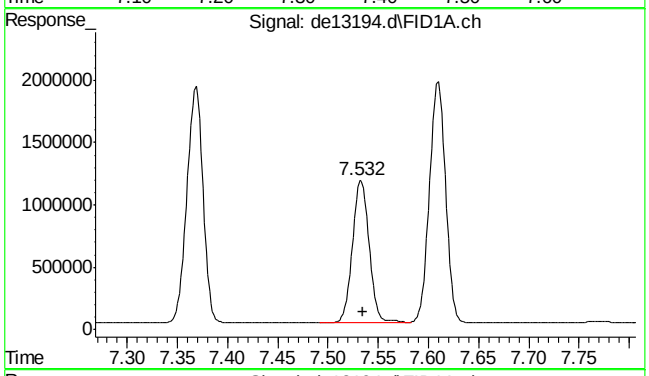
9

SGS ACCUTEST MC45799



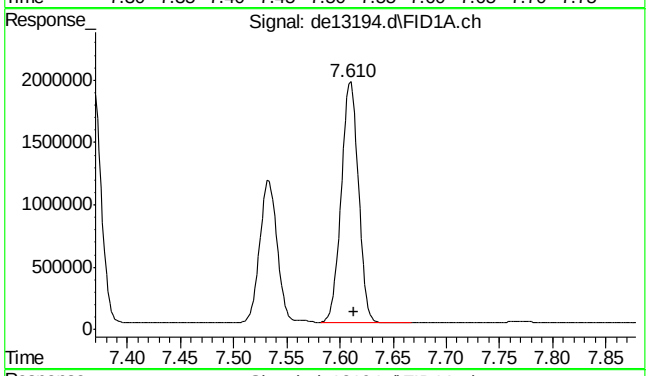
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



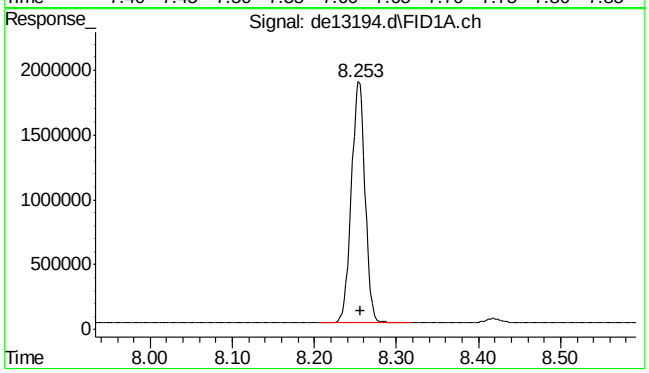
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



#7 acenaphthene

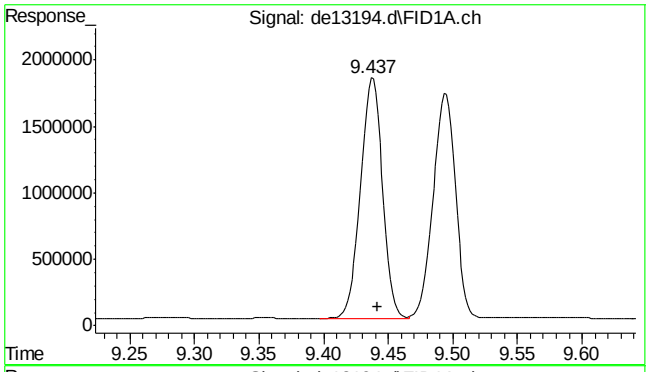
R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



#8 fluorene

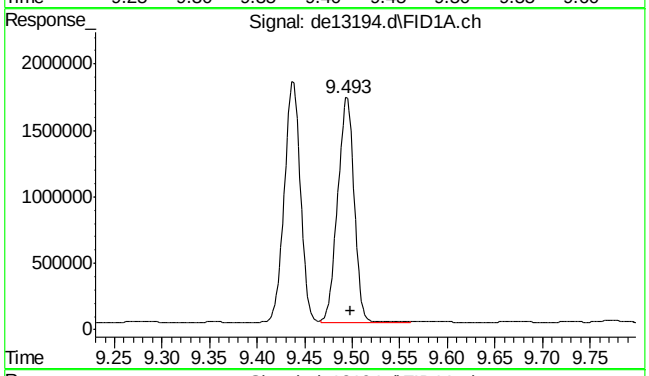
R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml

SGS ACCUTEST MC45799



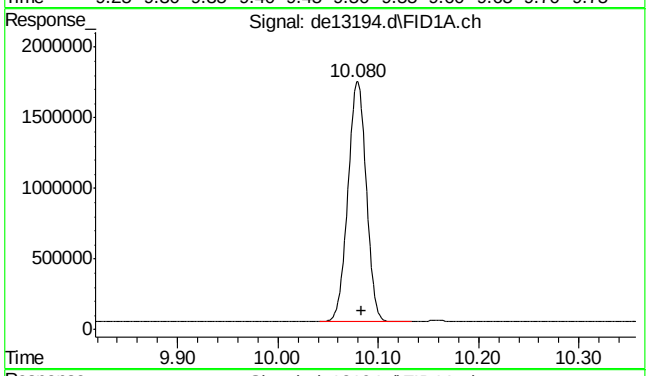
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



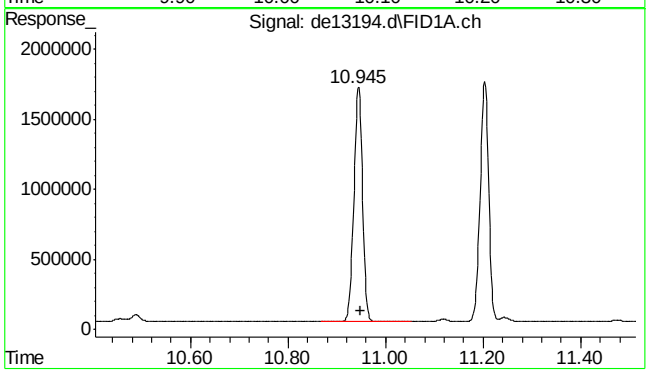
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

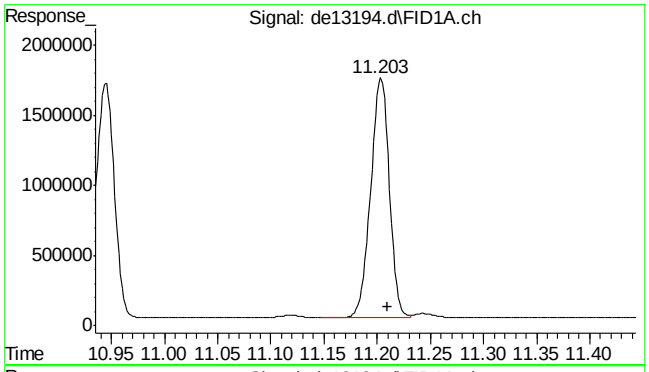
R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

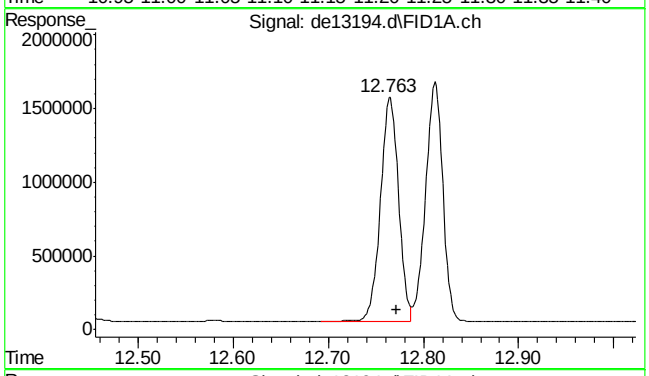
R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

SGS ACCUTEST MC45799



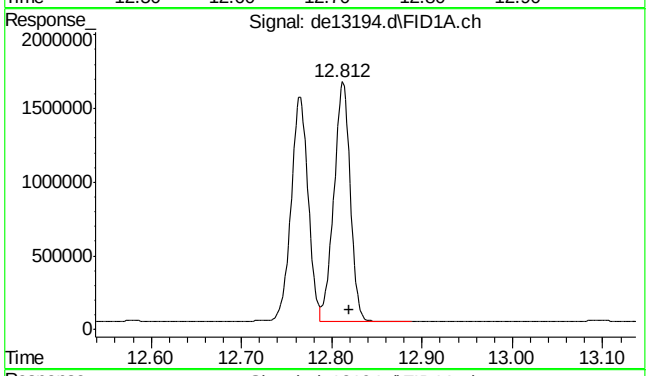
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



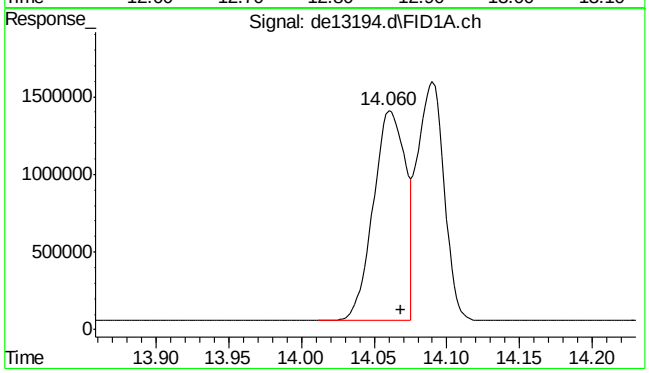
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



#15 chrysene

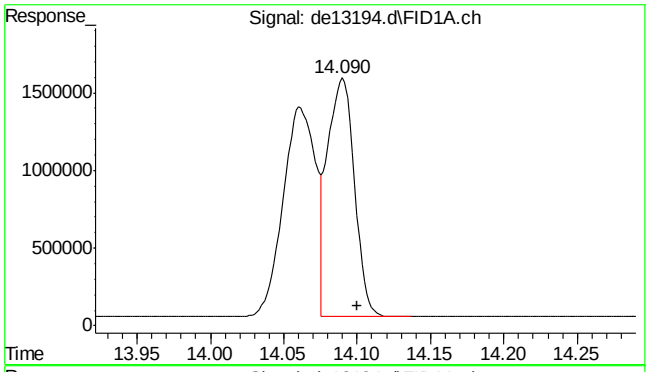
R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



#16 benzo(B)fluoranthene

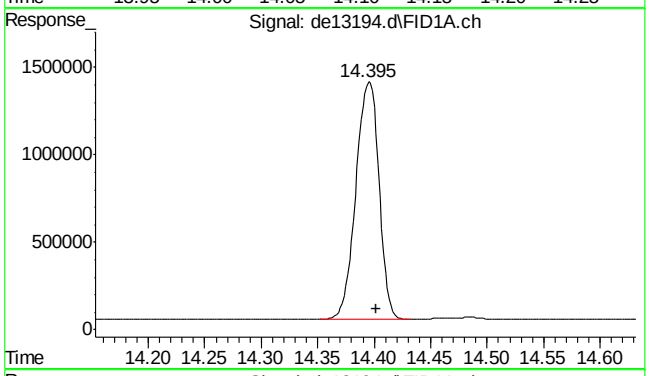
R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m

SGS ACCUTEST MC45799



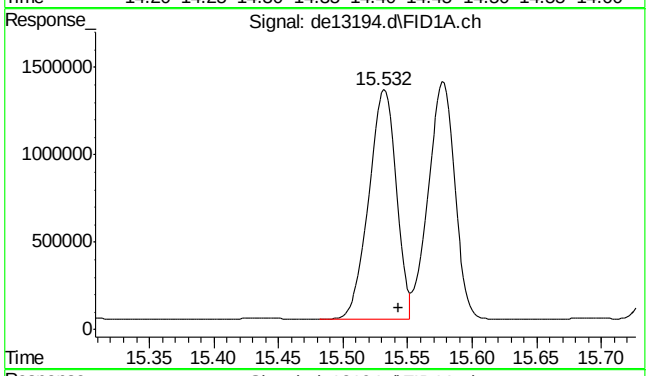
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



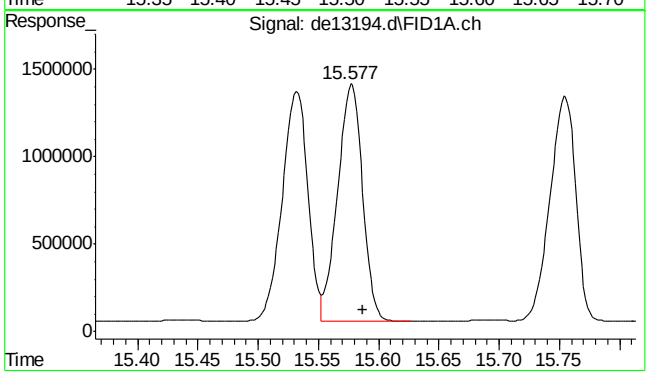
#18 benzo(a)pyrene

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

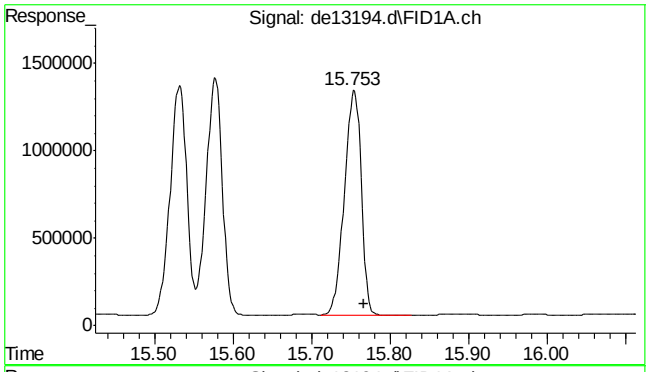
R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



#20 dibenzo(ah)anthracene

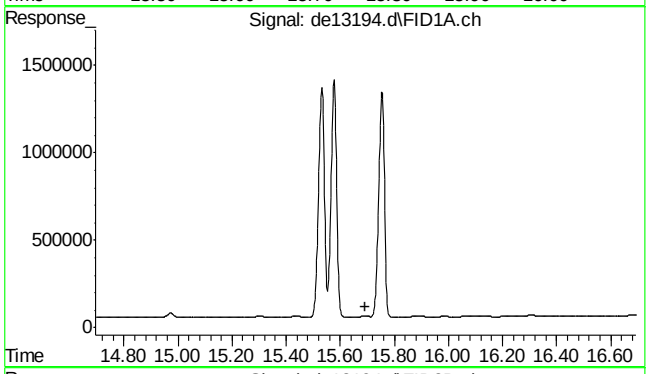
R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml

SGS ACCUTEST MC45799



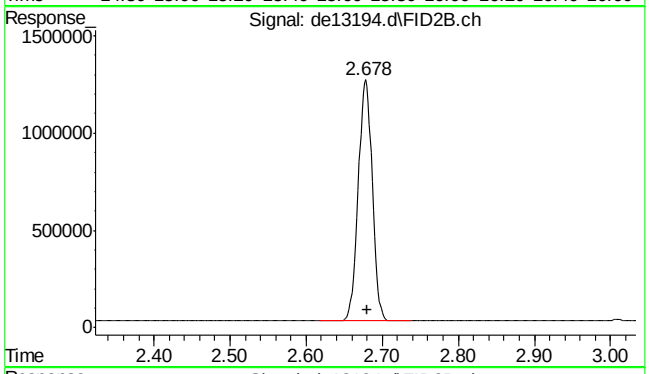
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



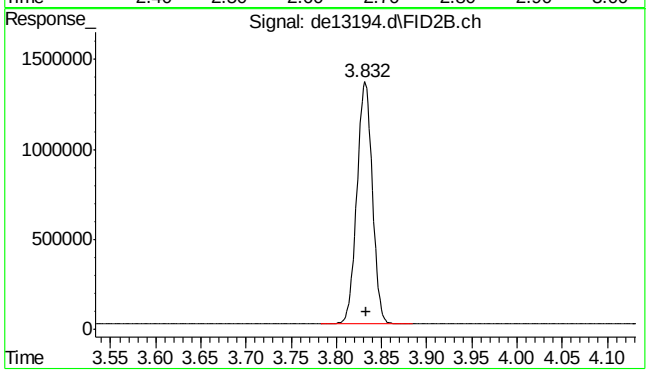
#22 bht

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



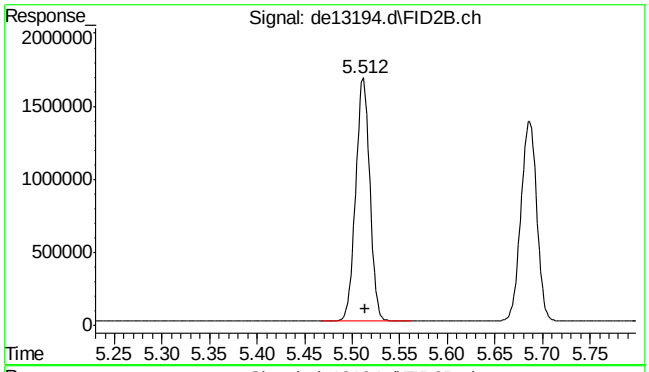
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

9.4.4

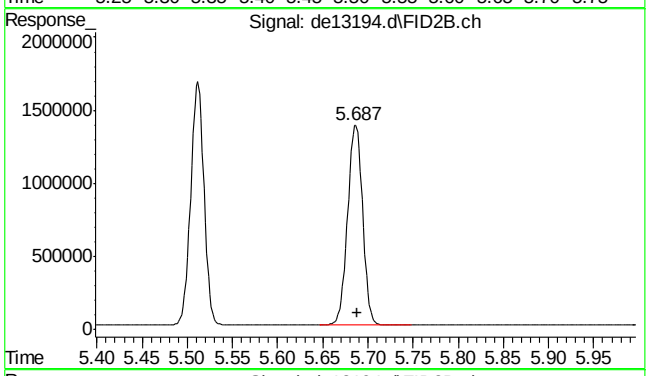
9

SGS ACCUTEST MC45799



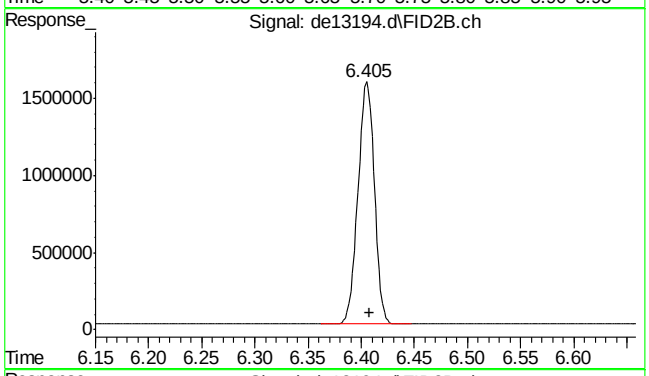
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



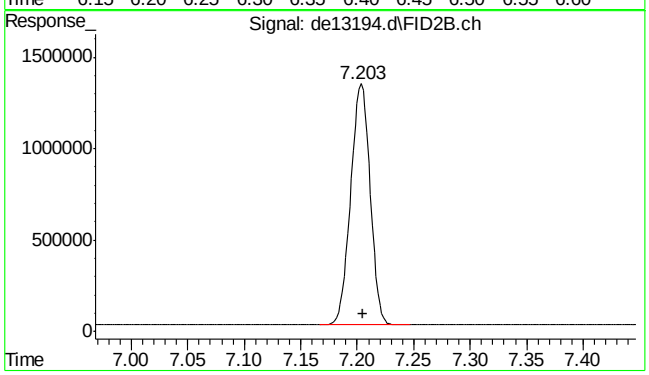
#28 c-12

R.T.: 5.687 min
Delta R.T.: -0.002 min
Response: 1581613
Conc: 20.81 µg/ml



#29 2-methylnaphthalene #2

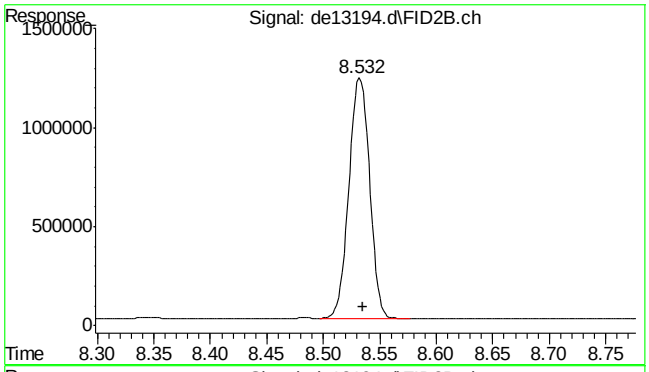
R.T.: 6.405 min
Delta R.T.: -0.003 min
Response: 1698114
Conc: 20.83 µg/ml



#30 c-14

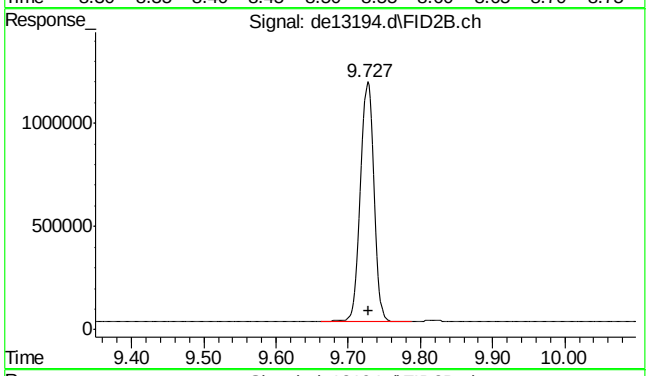
R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

SGS ACCUTEST MC45799



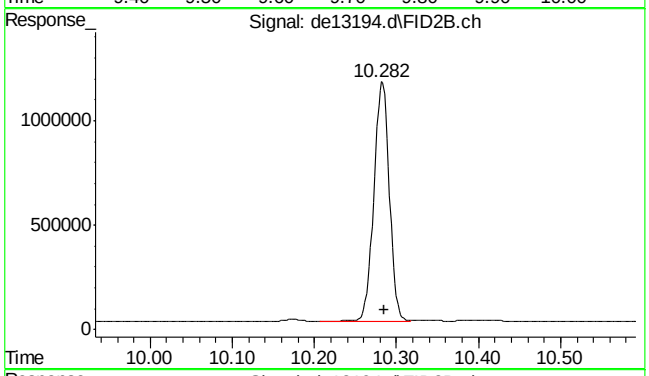
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



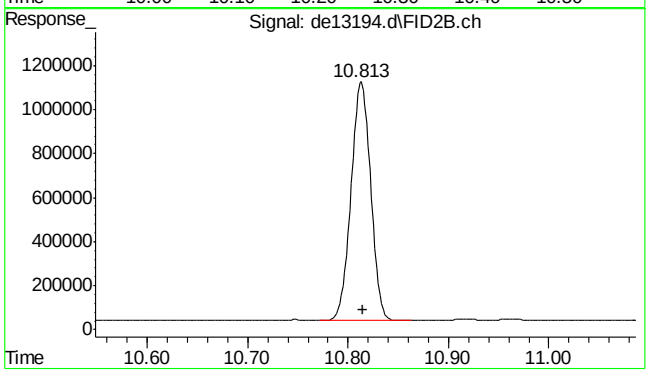
#32 c-18

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



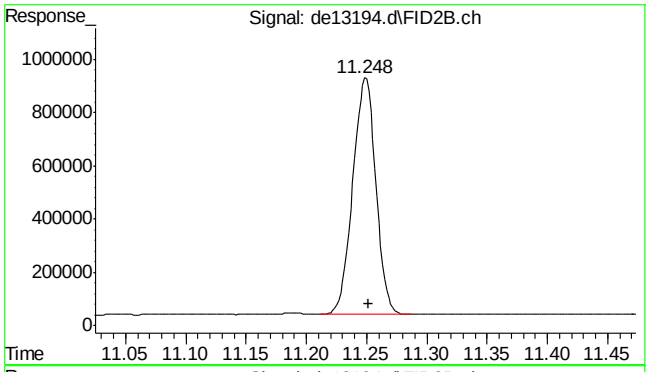
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

9.4.4

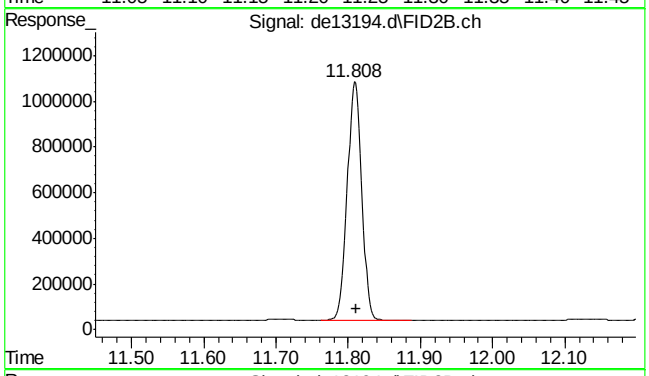
9

SGS ACCUTEST MC45799



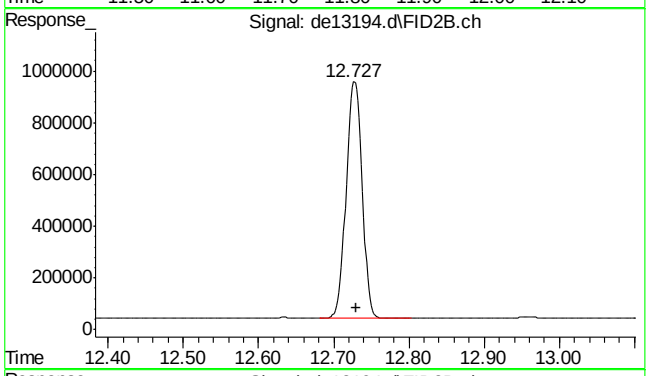
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



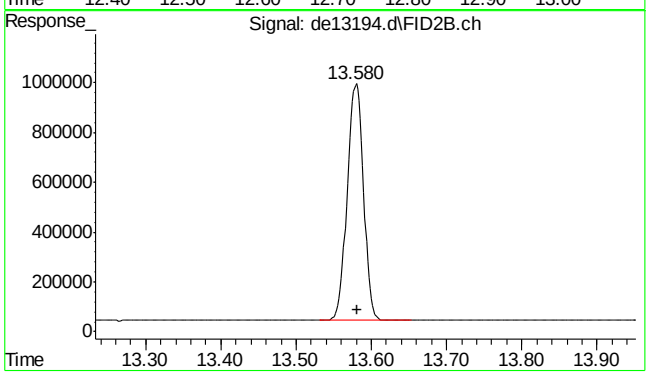
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



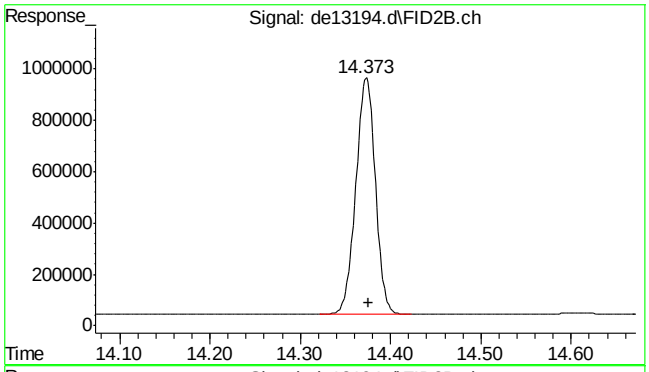
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

9.4.4

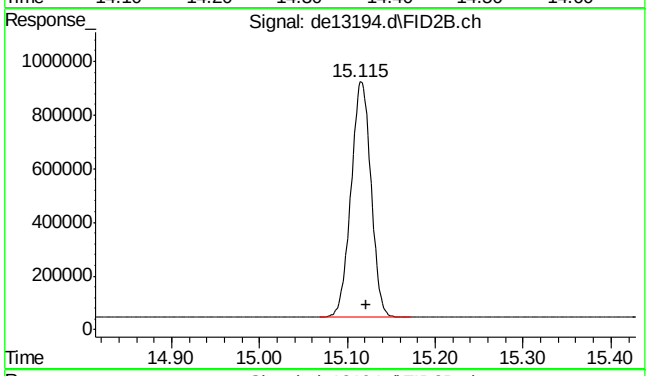
9

SGS ACCUTEST MC45799



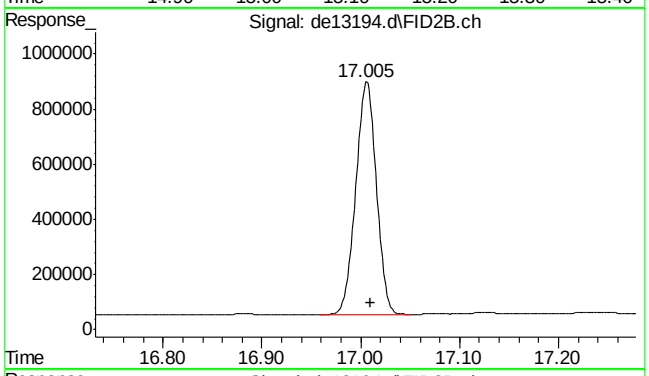
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



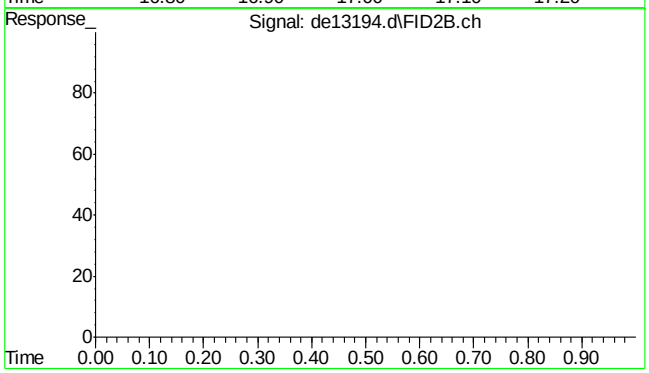
#40 c-30

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



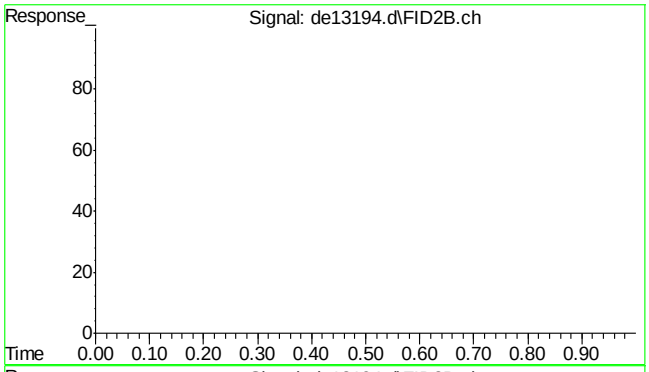
#42 bht

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

9.4.4

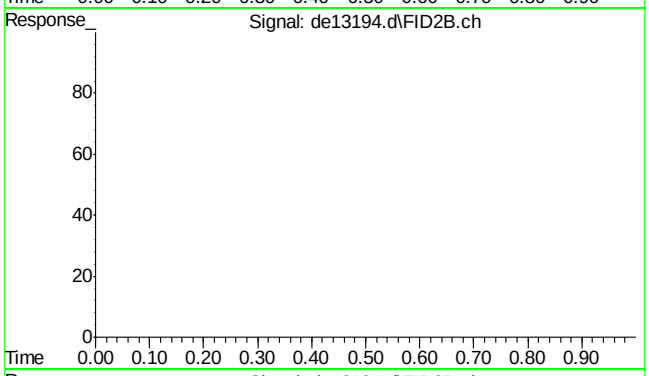
9

SGS ACCUTEST MC45799



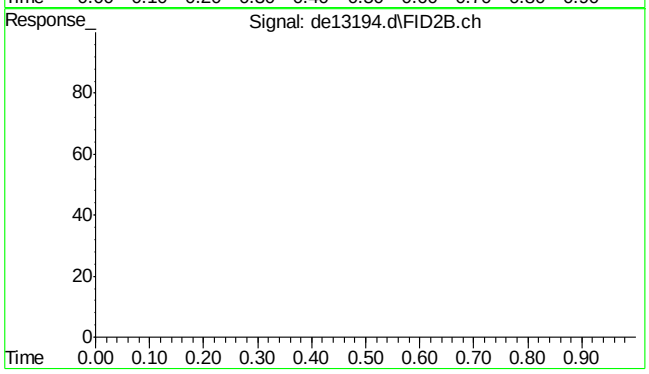
#43 bht

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.

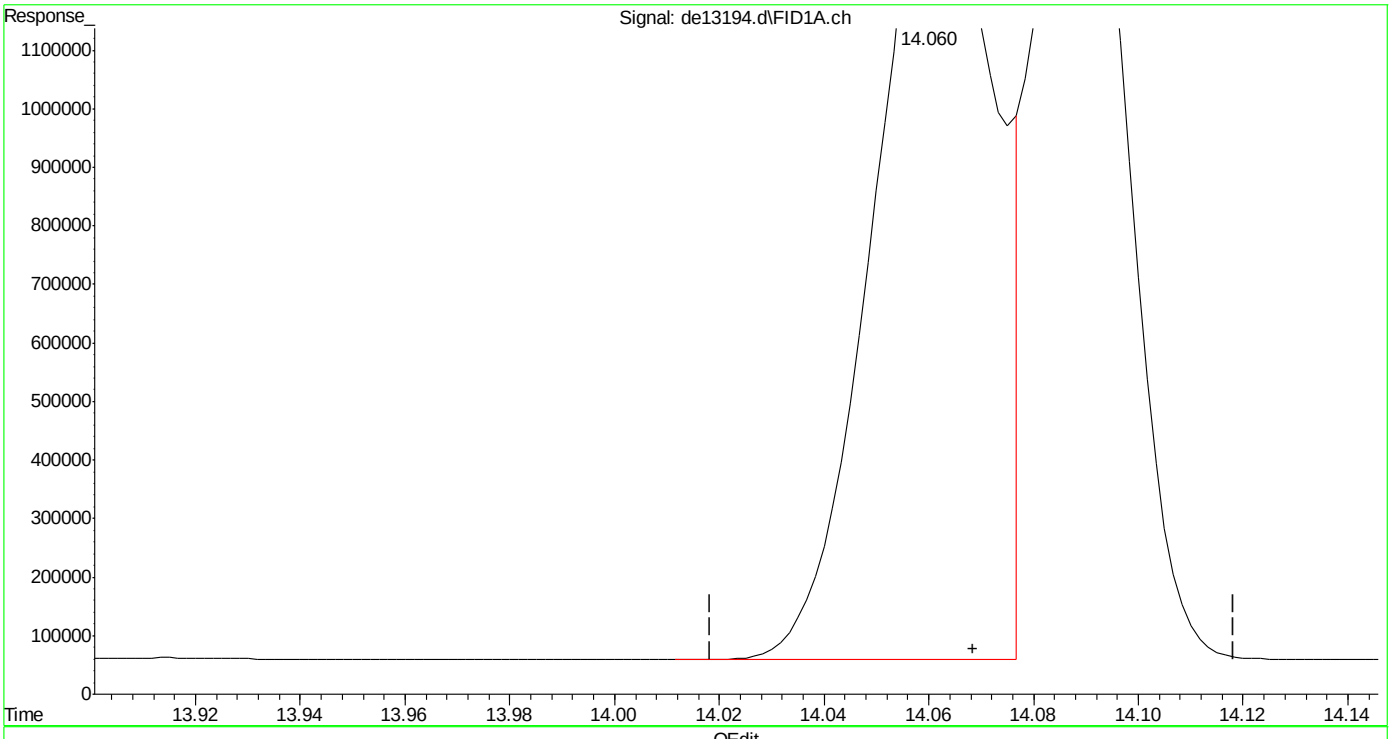
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.060min 21.786 µg/ml
response 2188193

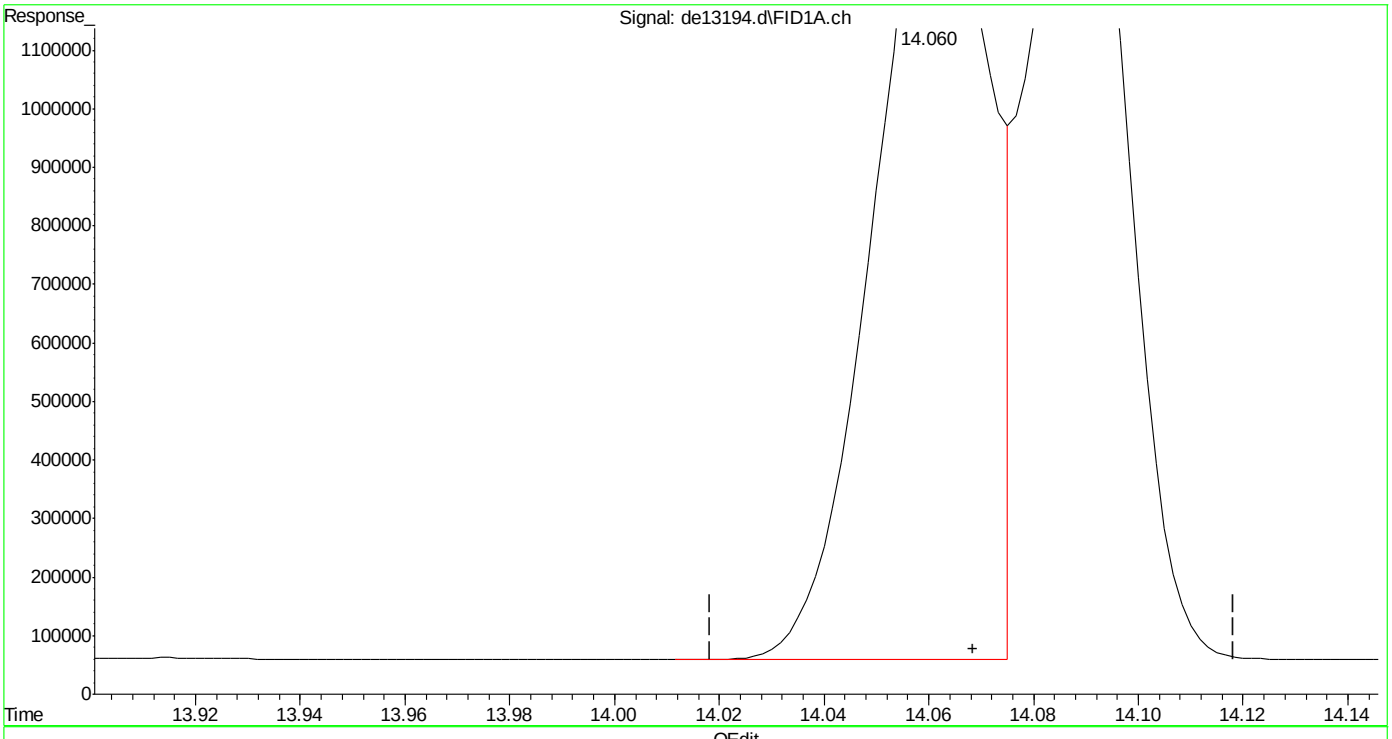
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.060min 20.856 µg/ml m
response 2094779

(+) = Expected Retention Time

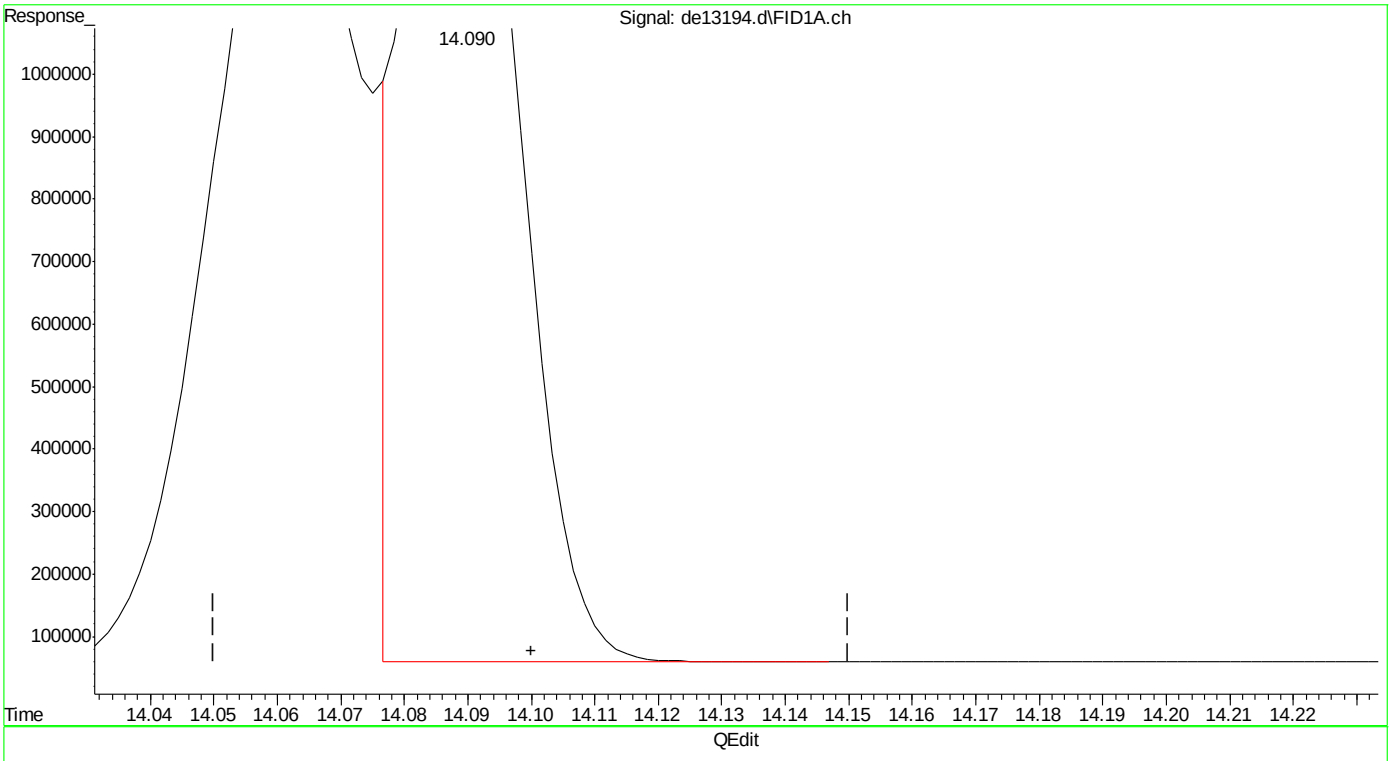
SGS ACCUTEST MC45799

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

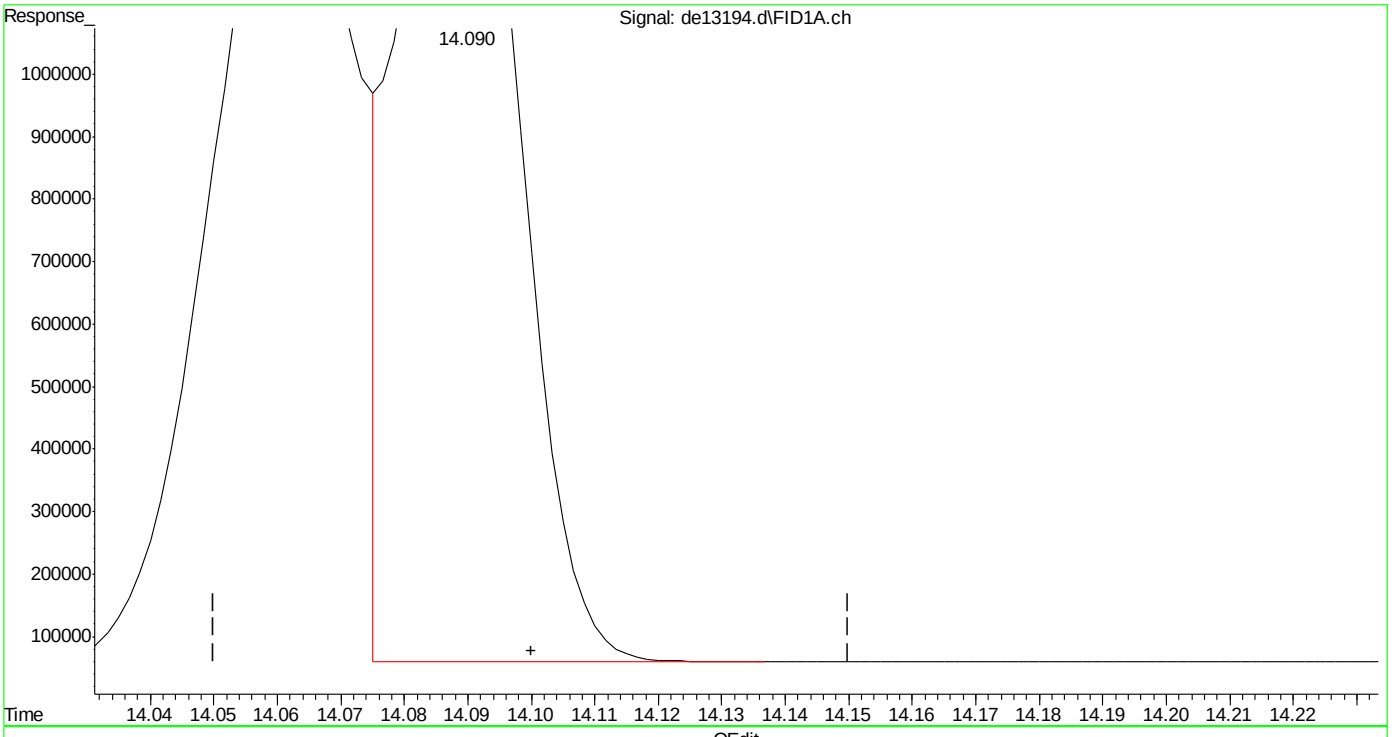
(+) = Expected Retention Time

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

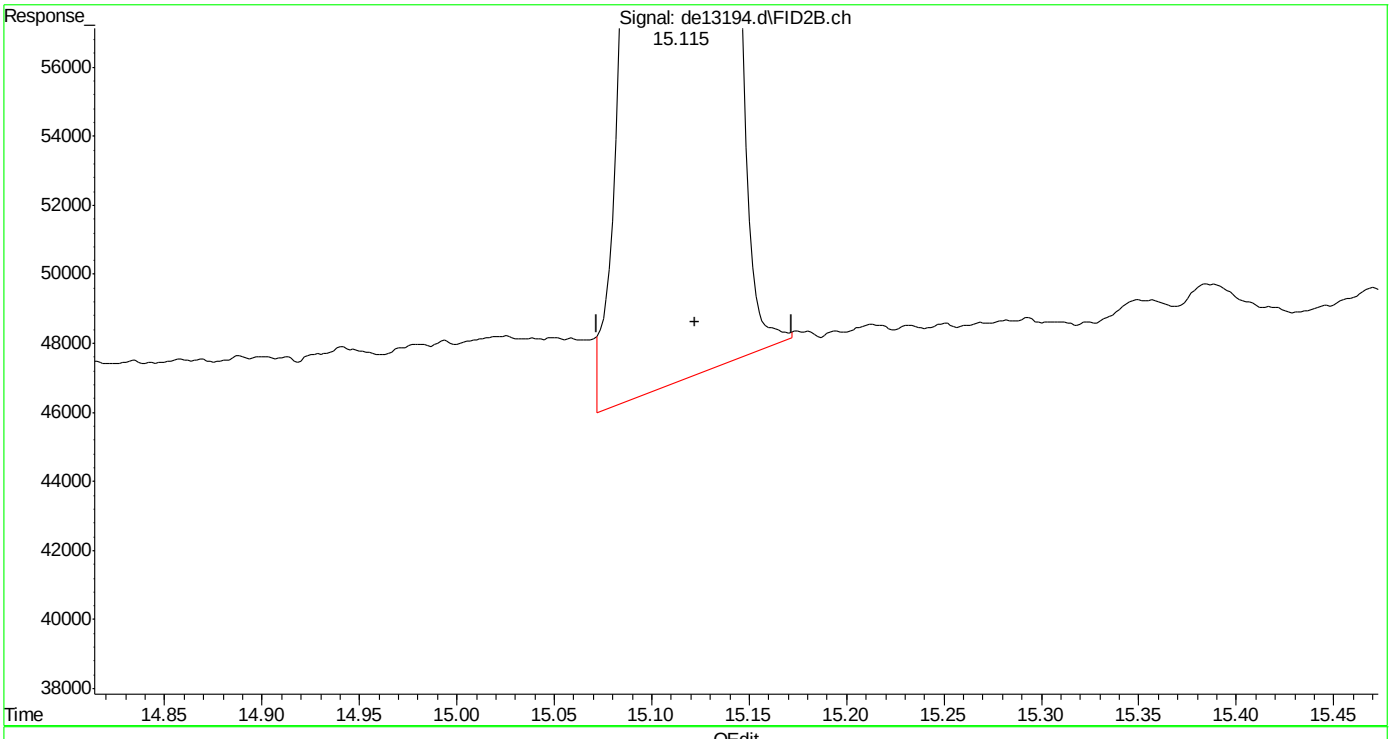
SGS ACCUTEST MC45799

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
EPH160204M.M Fri Feb 05 10:51:11 2016

SGS ACCUTEST MC45799

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

SGS ACCUTEST MC45799

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.

9.4.5

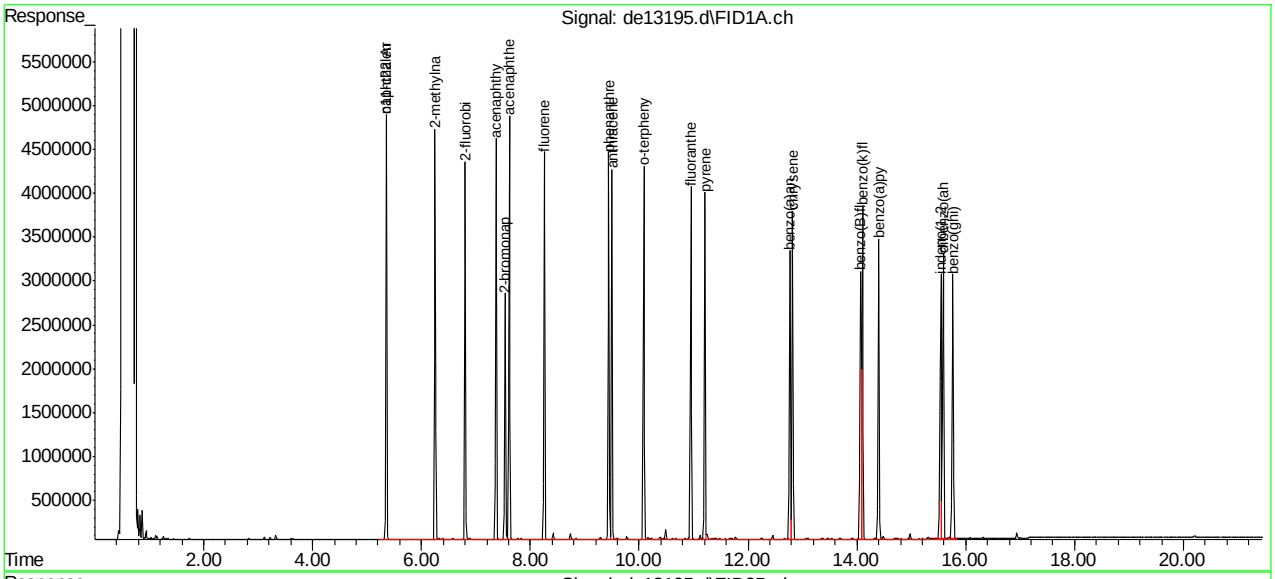
9

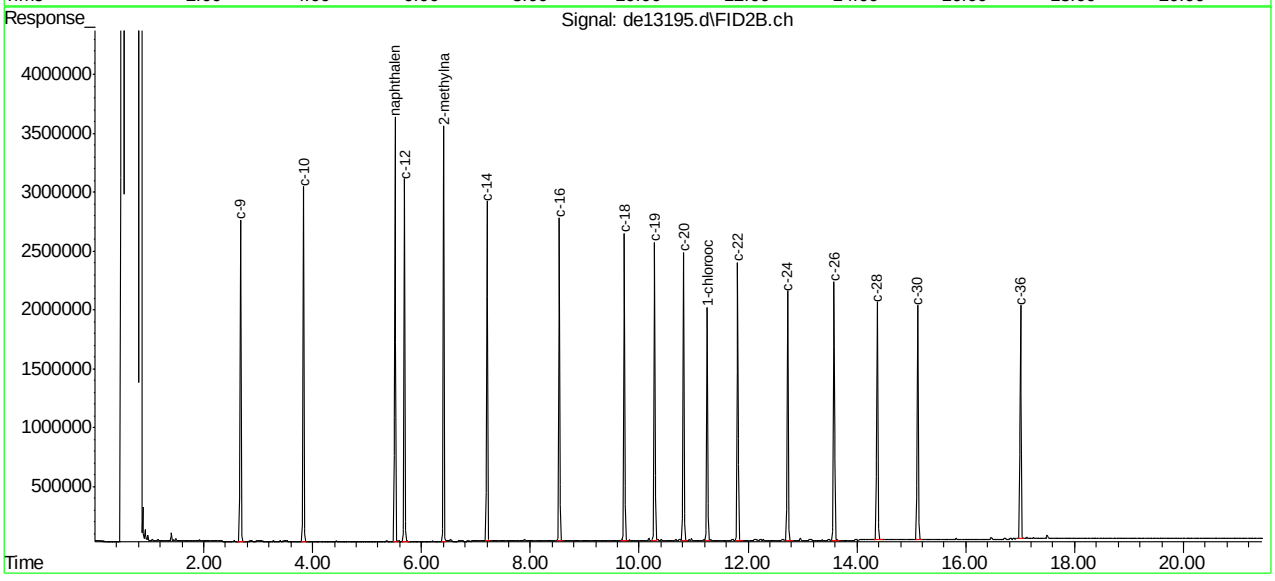
Quantitation Report (QT Reviewed)

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

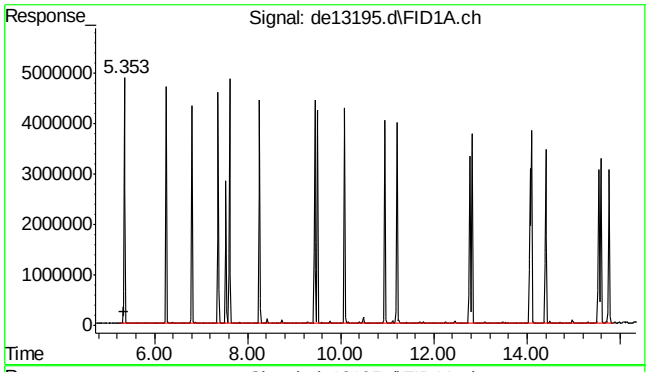
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



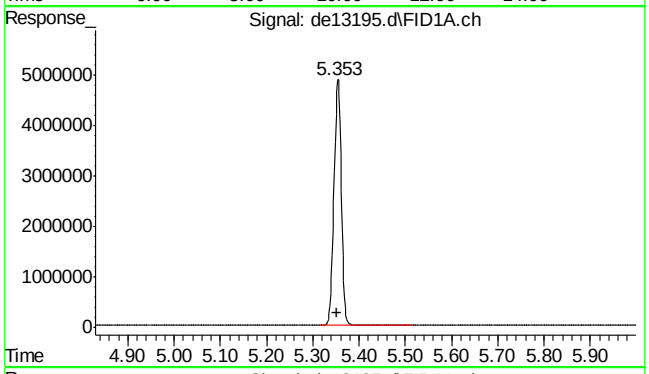


SGS ACCUTEST MC45799



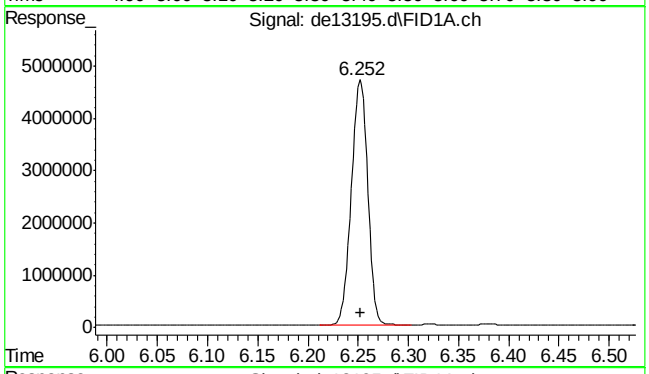
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



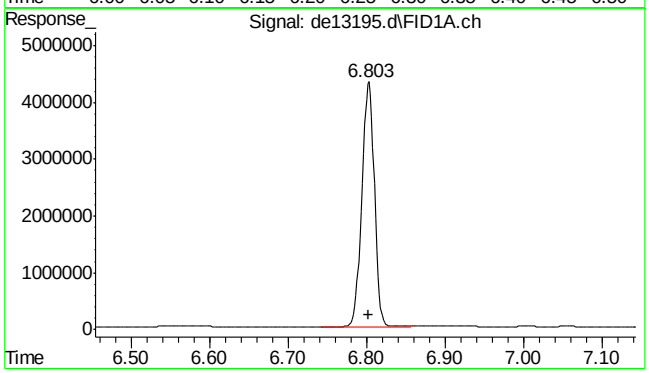
#2 naphthalene

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



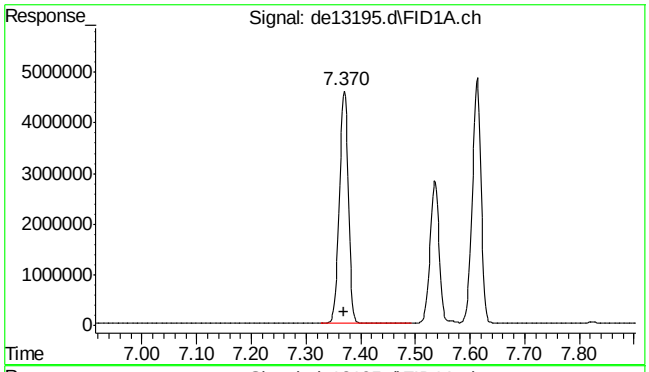
#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.4.5

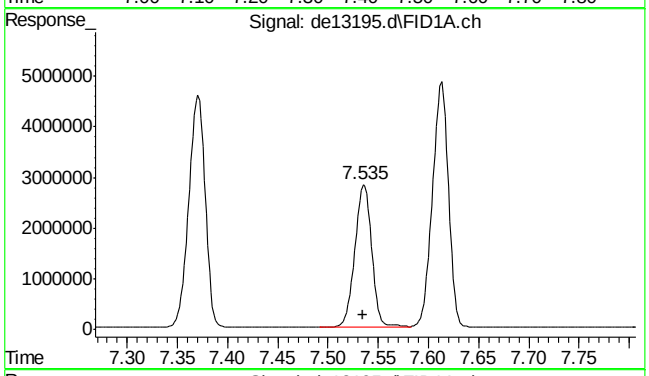
9

SGS ACCUTEST MC45799



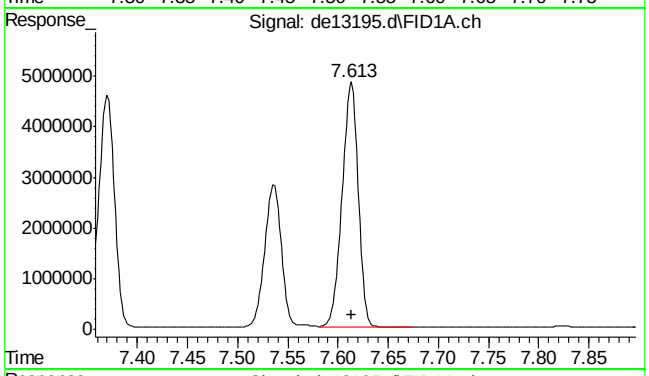
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



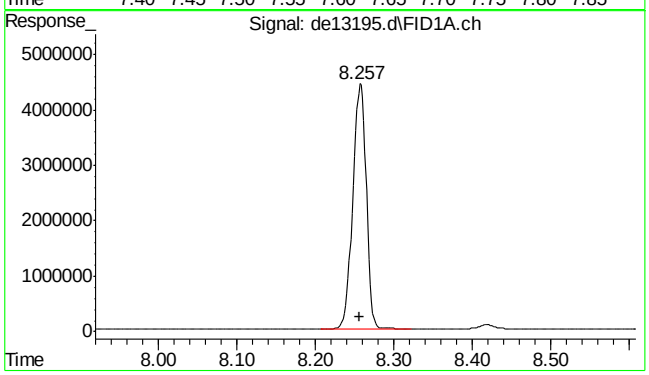
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

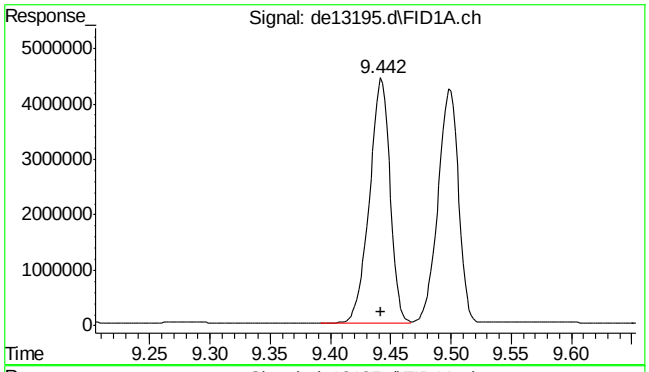
R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



#8 fluorene

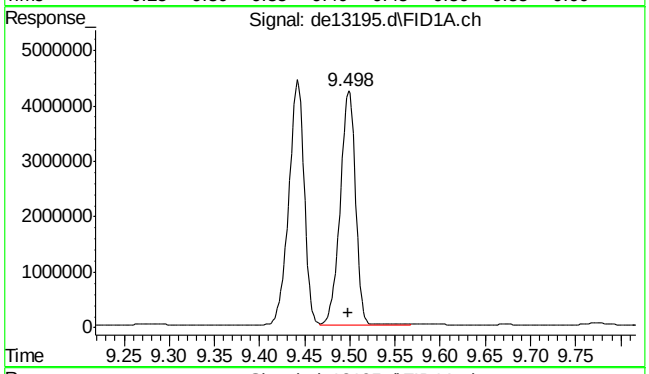
R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

SGS ACCUTEST MC45799



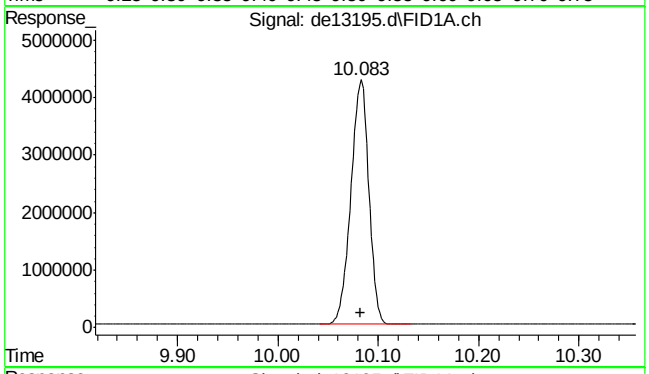
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



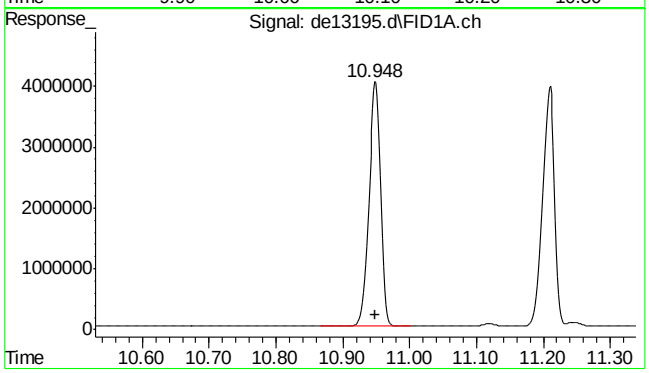
#10 anthracene

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



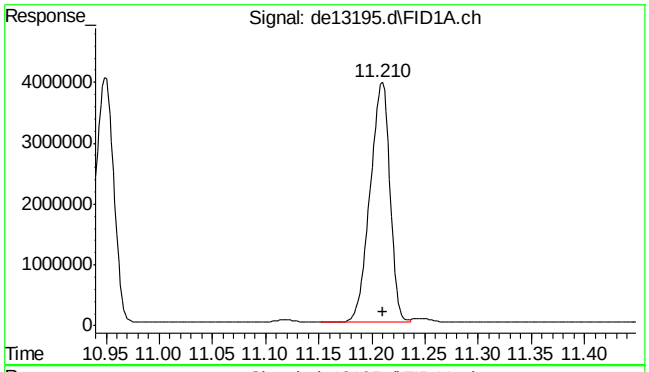
#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.4.5

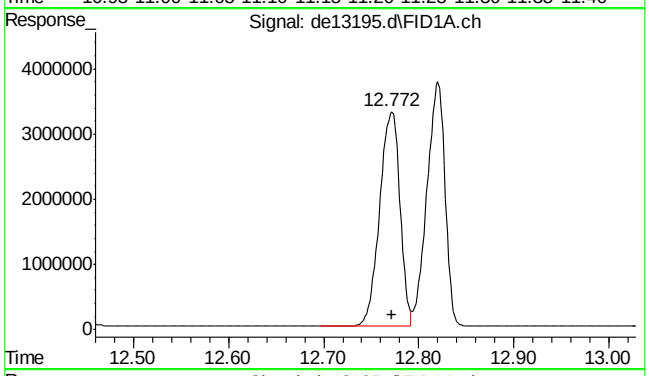
9

SGS ACCUTEST MC45799



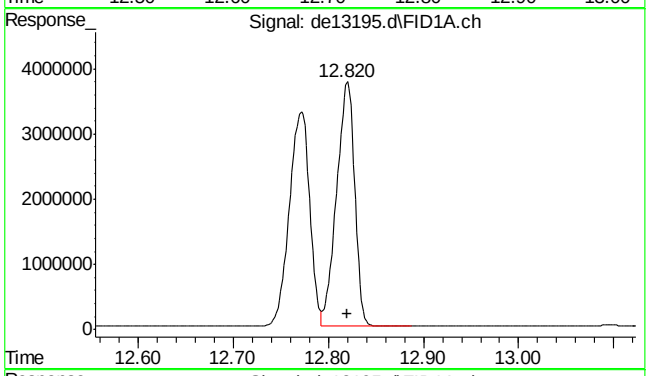
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



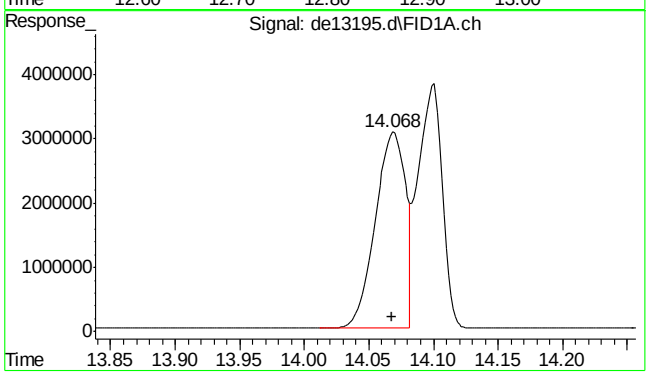
#14 benzo(a)anthracene

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



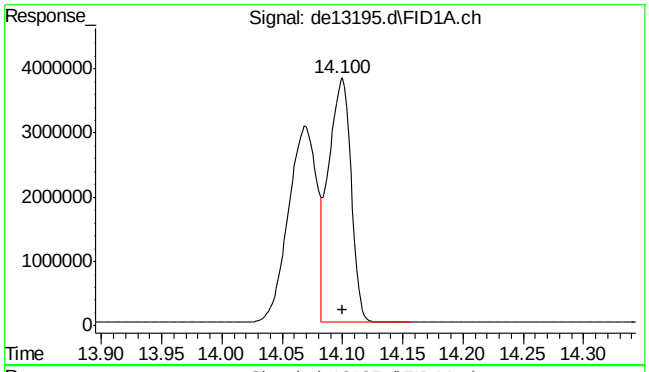
#16 benzo(B)fluoranthene

R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

9.4.5

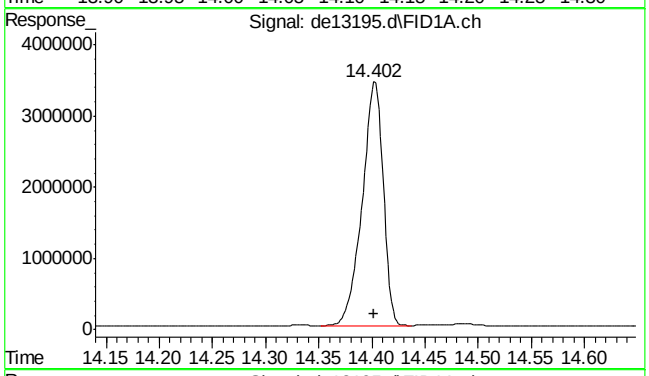
9

SGS ACCUTEST MC45799



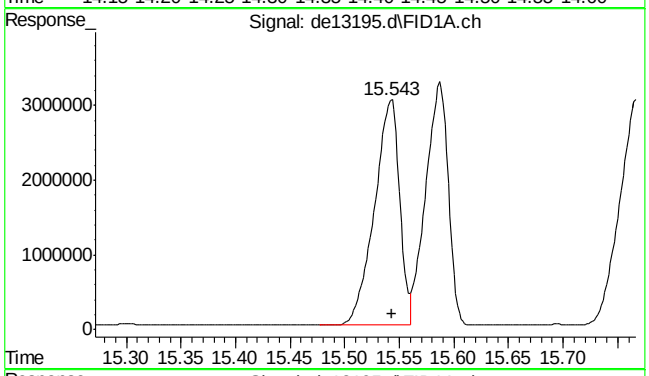
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



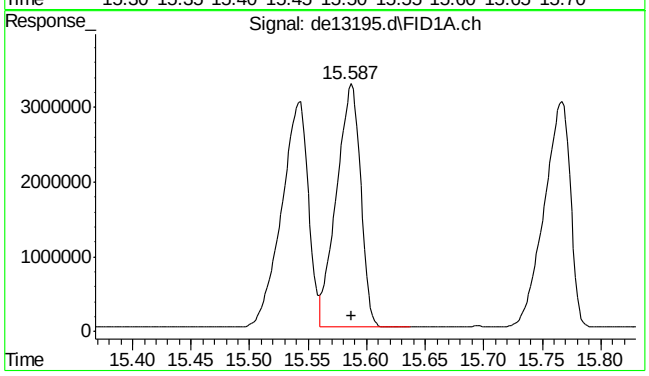
#18 benzo(a)pyrene

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



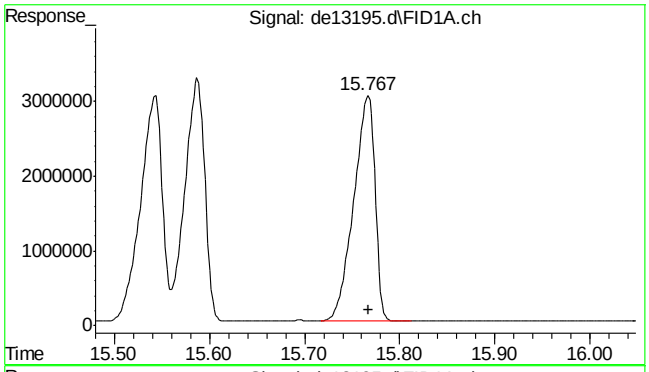
#20 dibenzo(ah)anthracene

R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

9.4.5

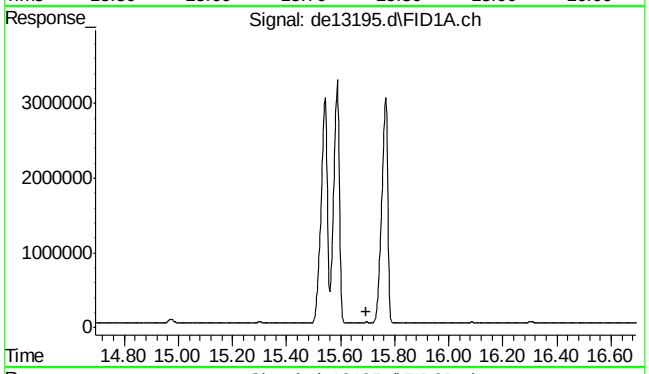
9

SGS ACCUTEST MC45799



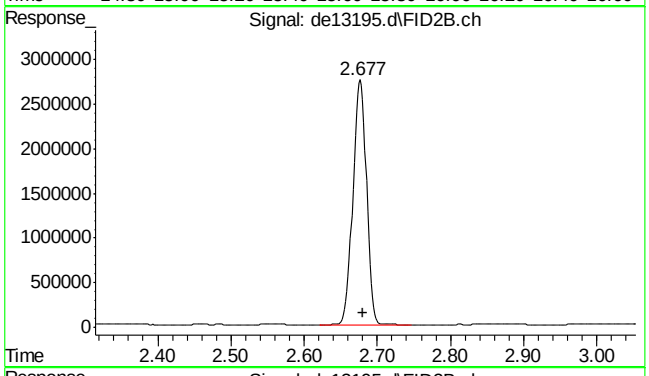
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



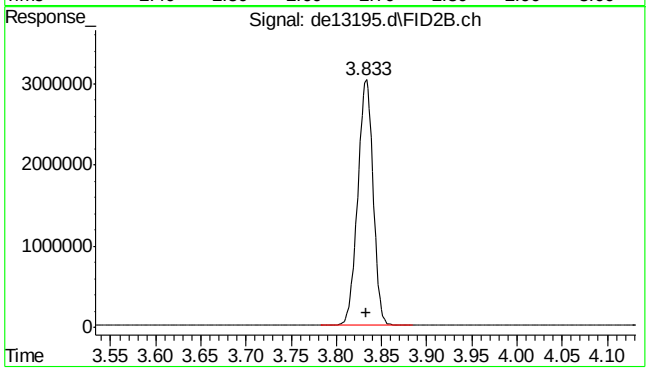
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

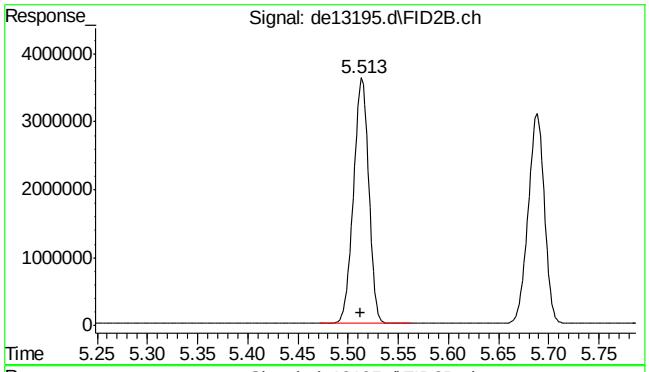
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

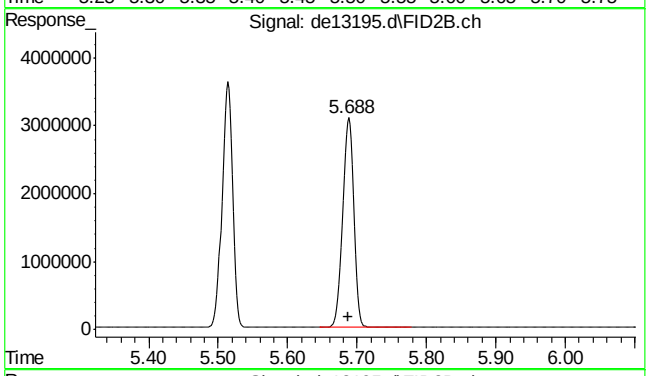
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

SGS ACCUTEST MC45799



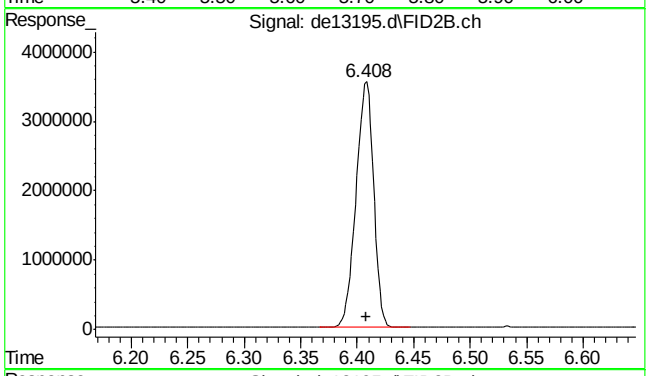
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



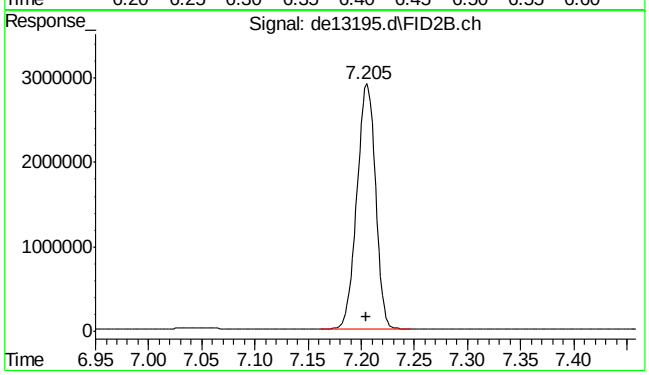
#28 c-12

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



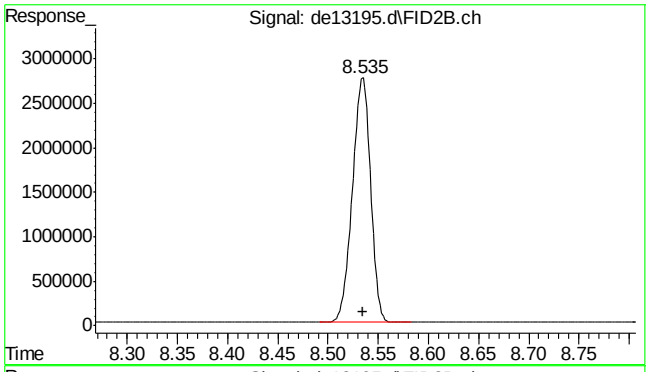
#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

9.4.5

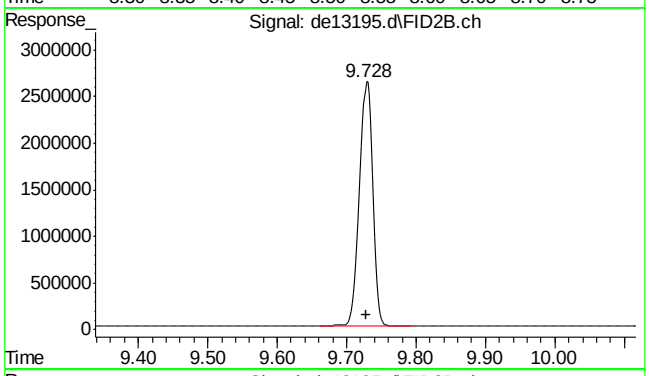
9

SGS ACCUTEST MC45799



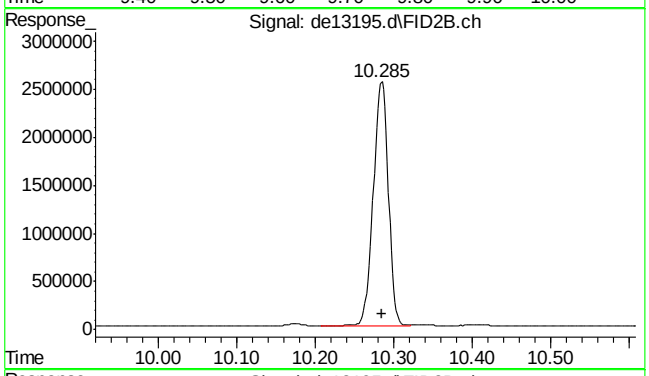
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



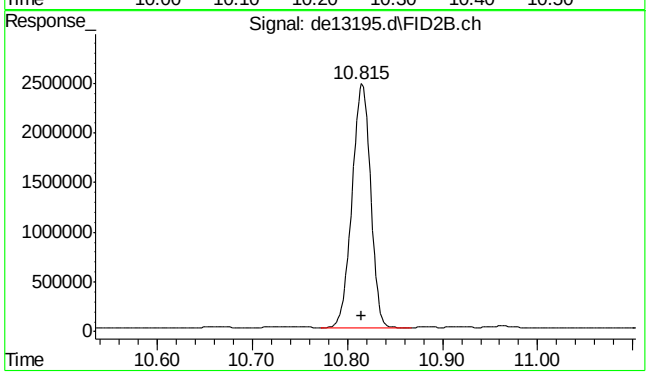
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

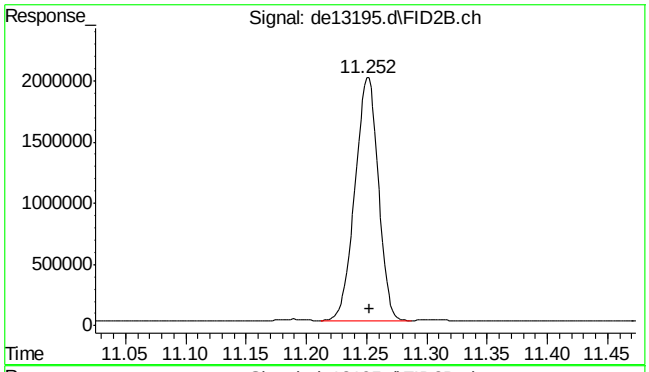
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

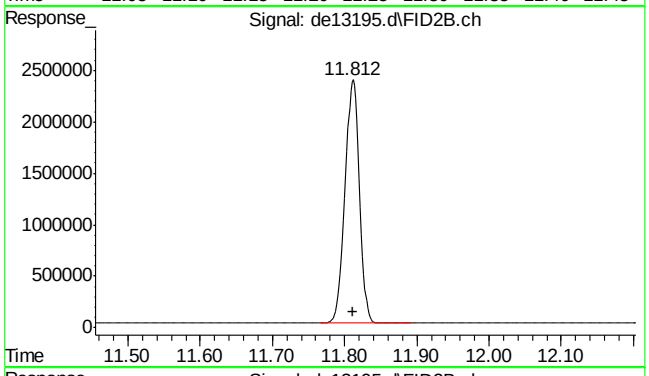
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45799



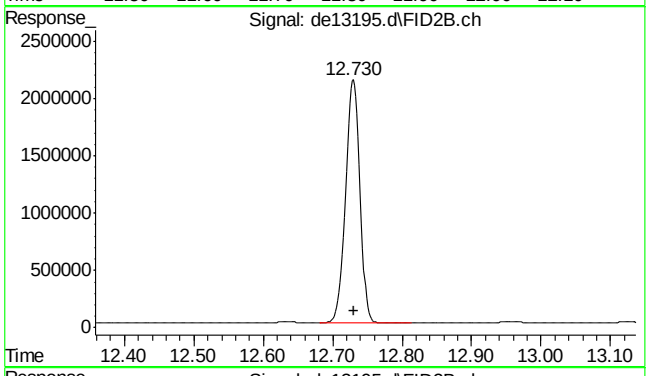
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



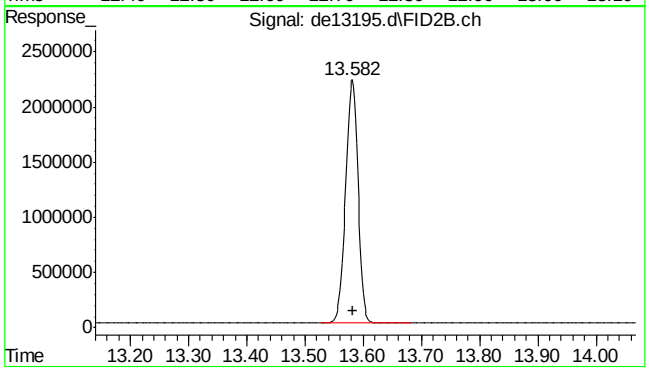
#36 c-22

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



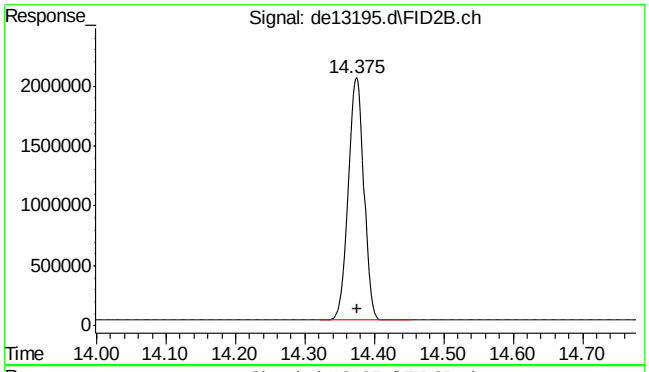
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml

9.4.5

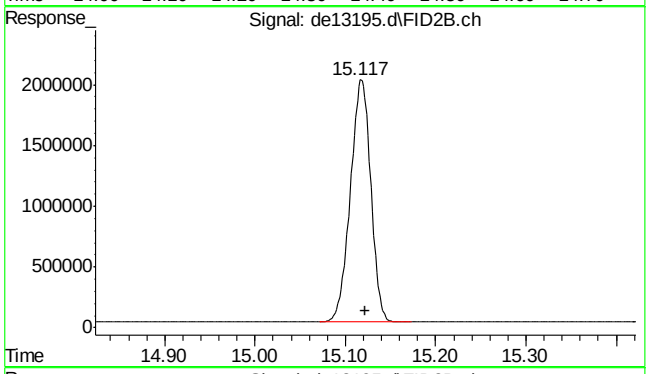
9

SGS ACCUTEST MC45799



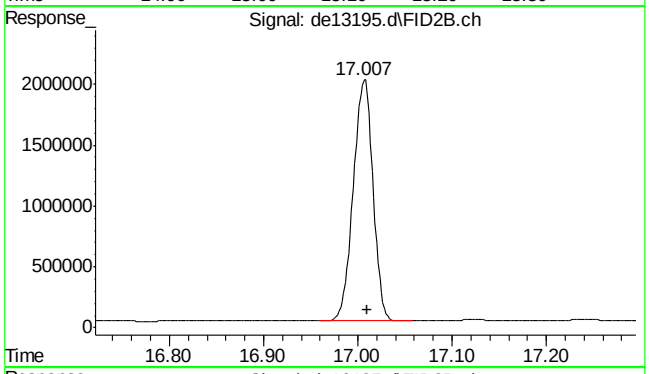
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



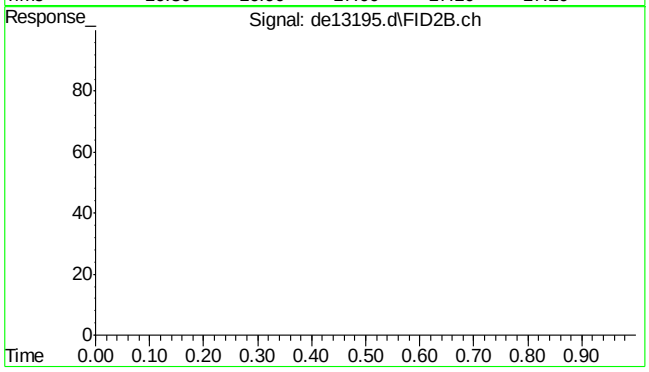
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

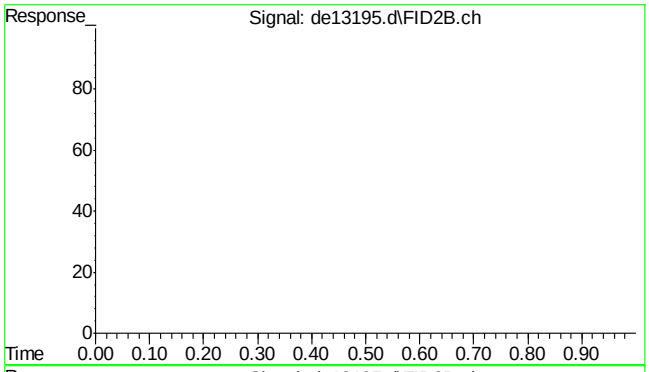
R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



#42 bht

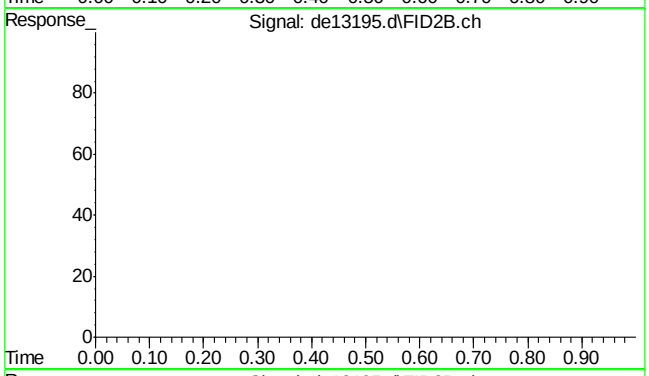
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45799



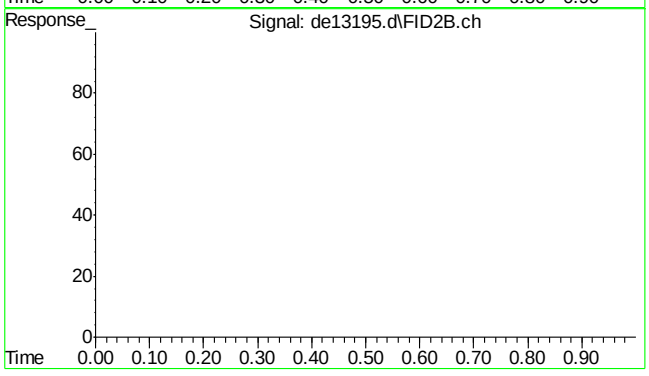
#43 bht

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

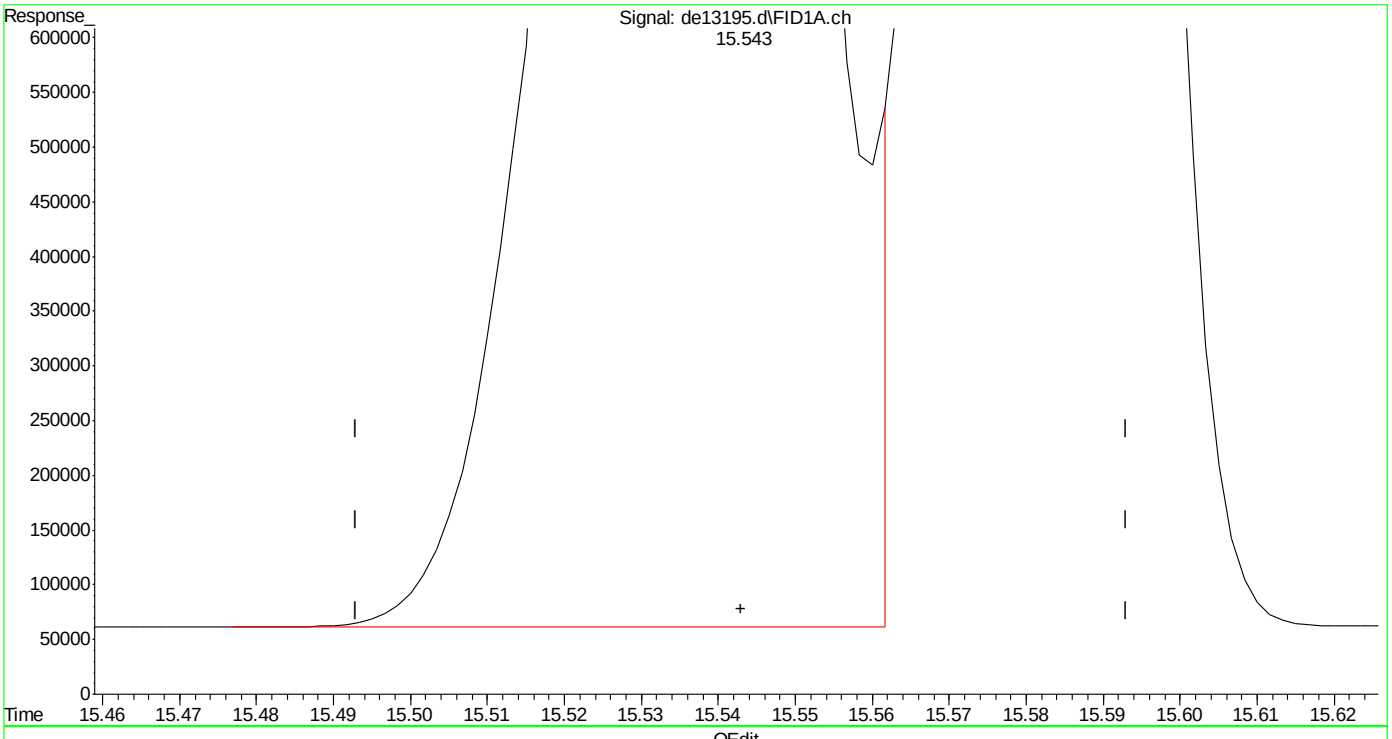
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

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

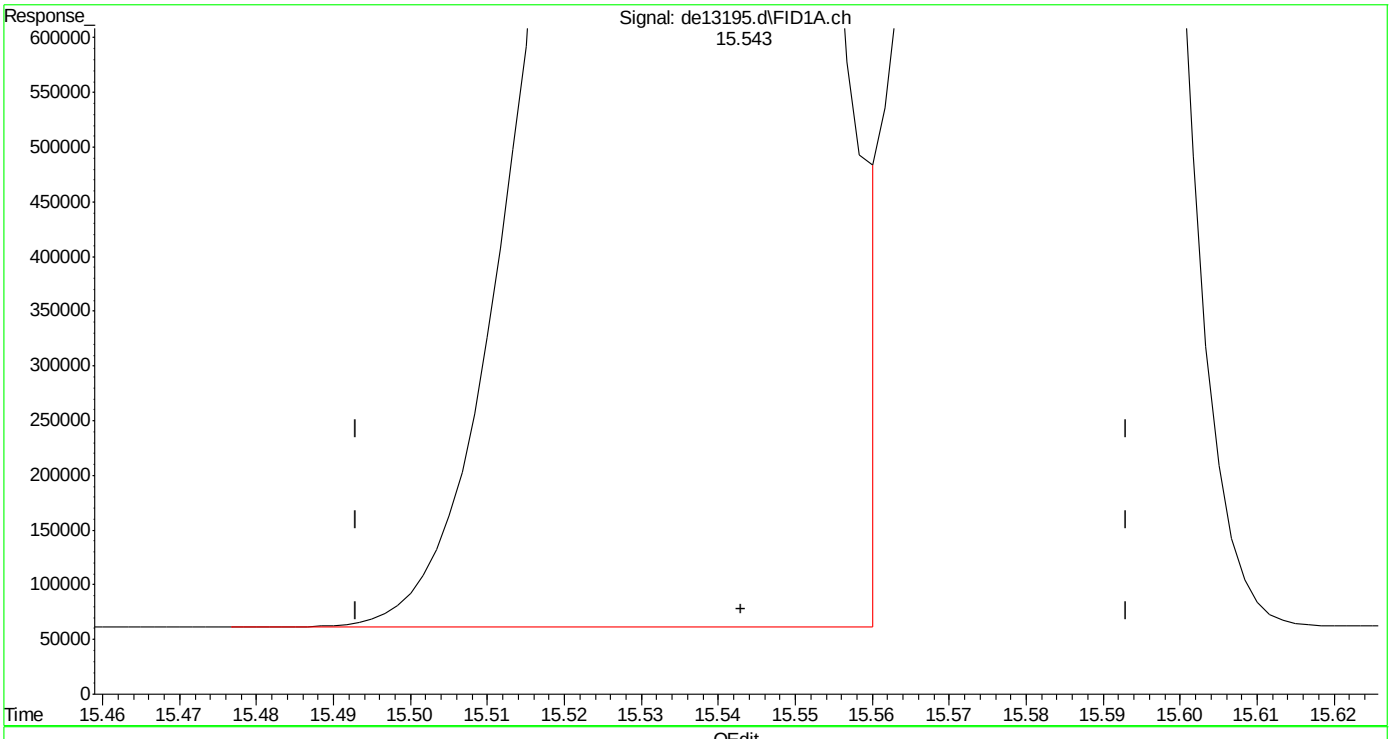
SGS ACCUTEST MC45799

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

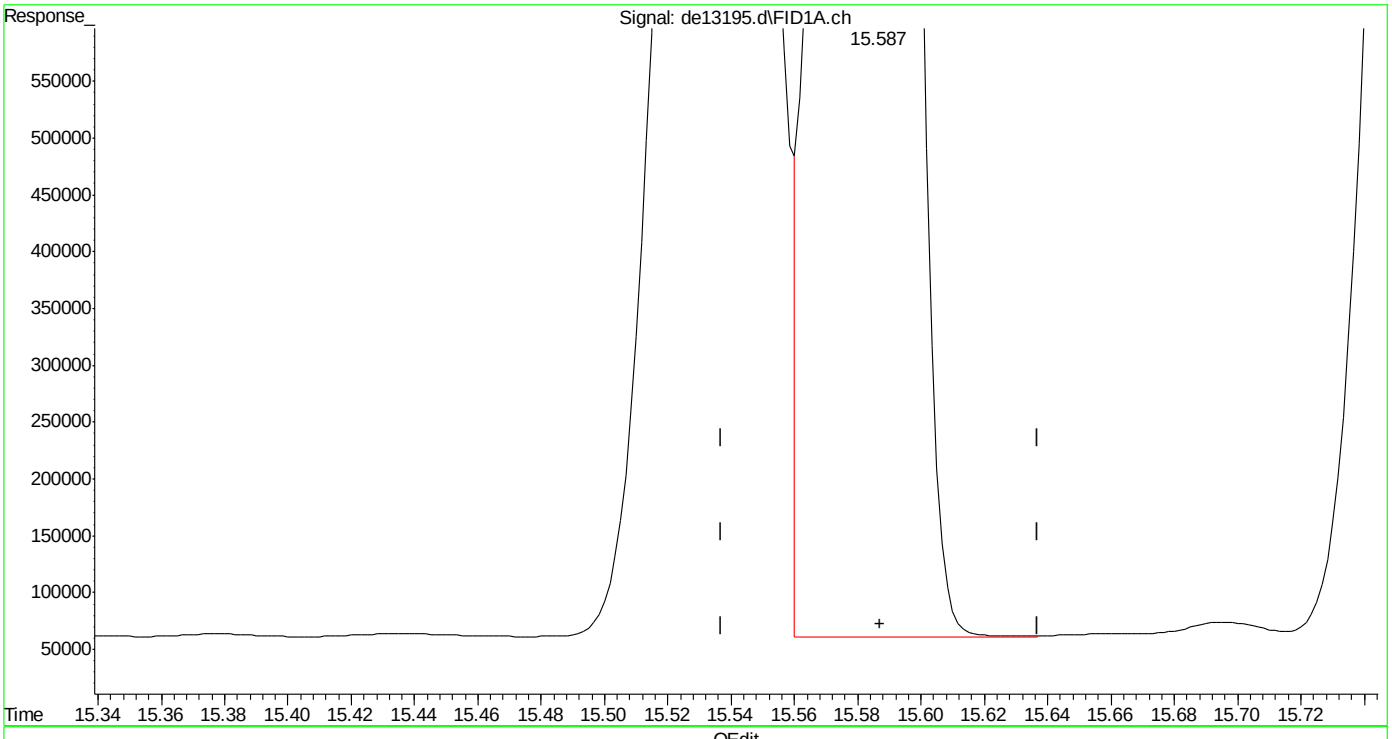
(+) = Expected Retention Time

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

SGS ACCUTEST MC45799

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.

9.4.6

9

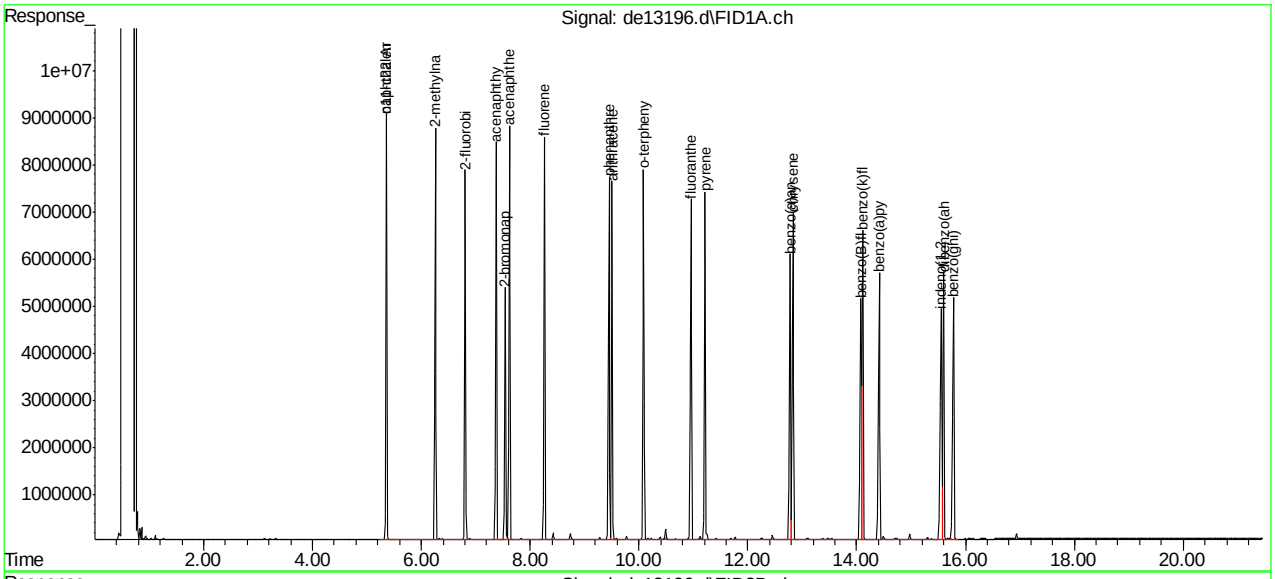
SGS ACCUTEST MC45799

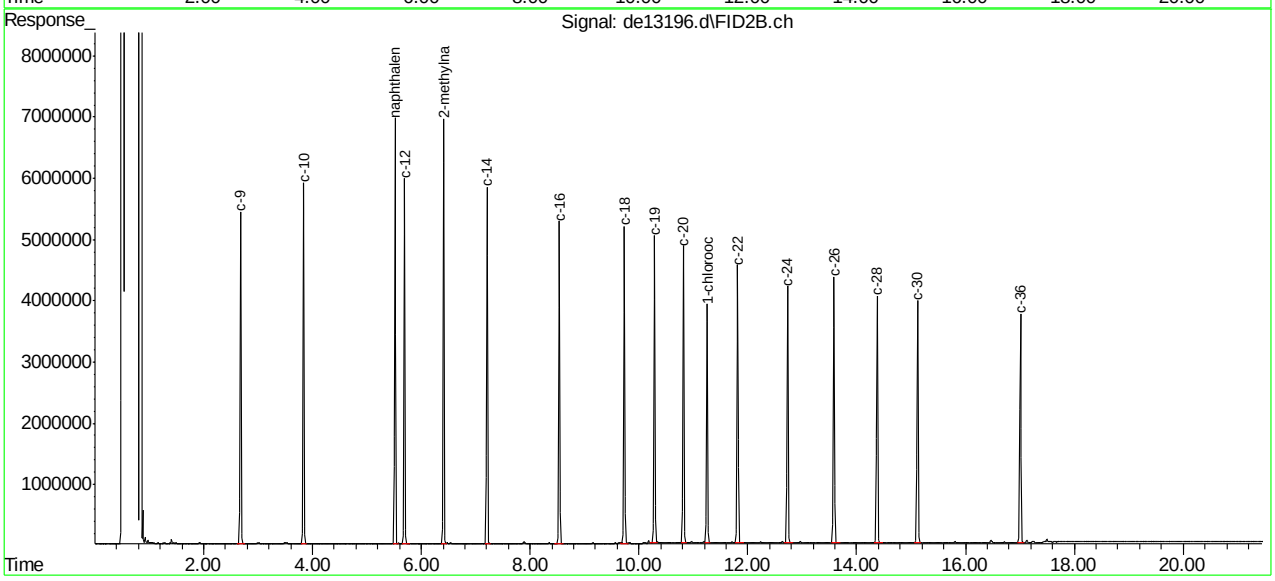
Quantitation Report (QT Reviewed)

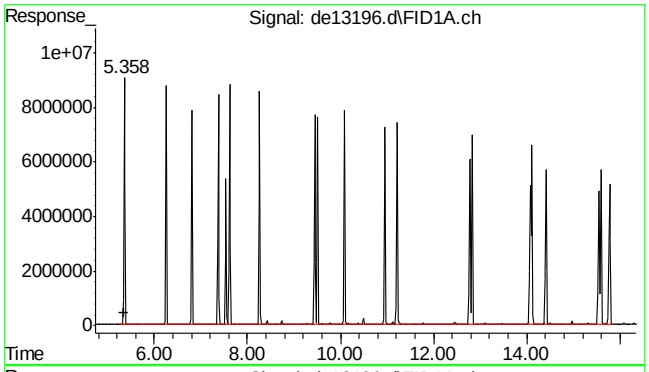
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

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 :

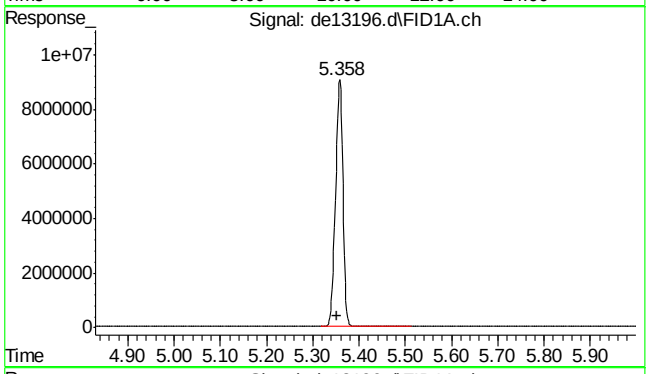






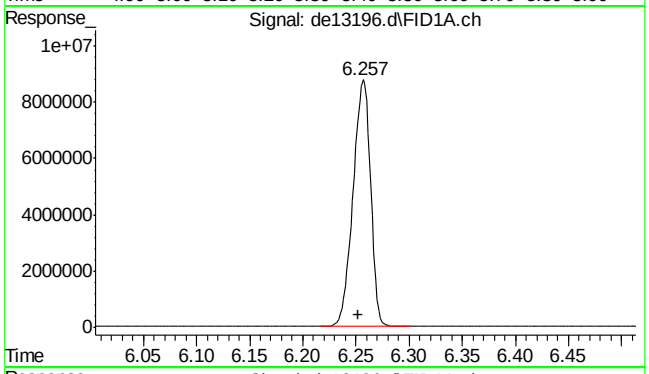
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



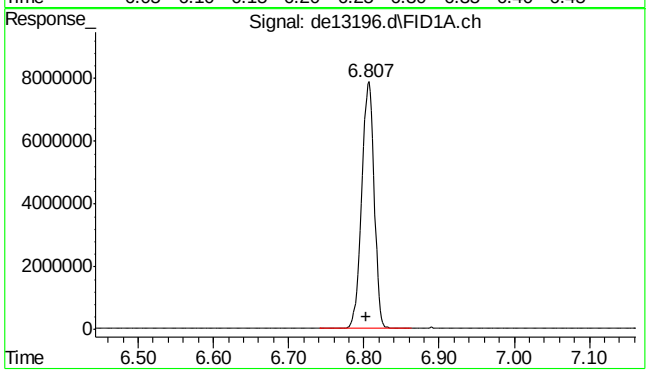
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

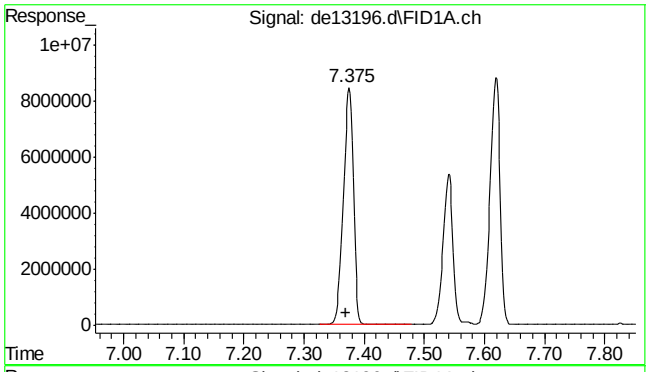
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

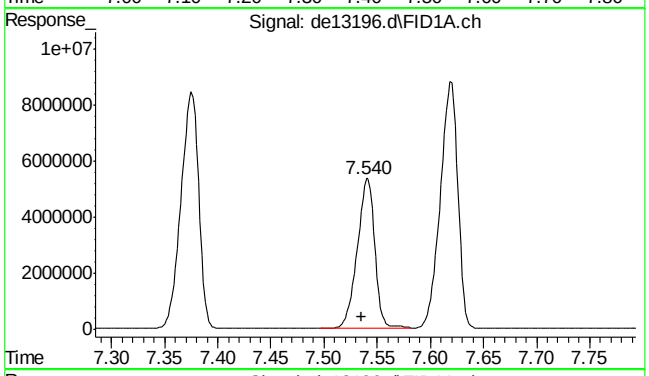
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45799



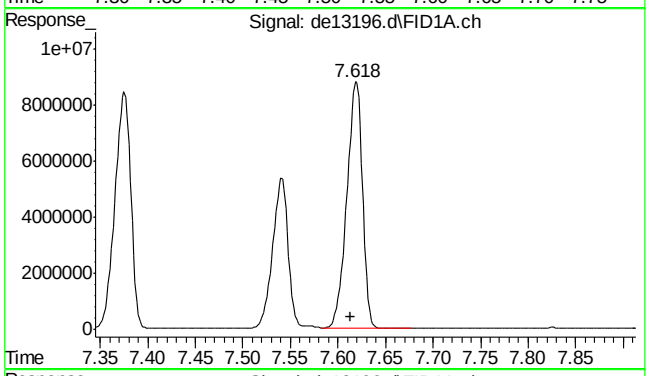
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



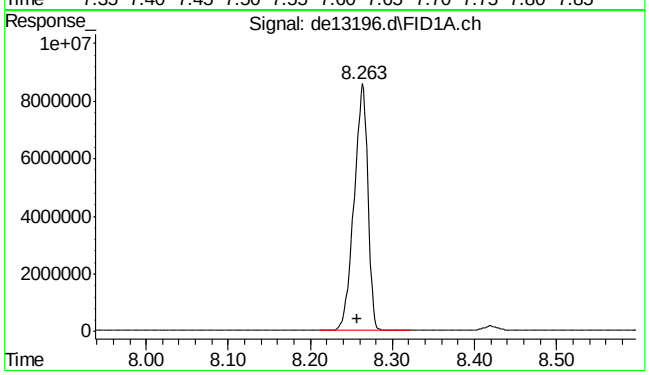
#6 2-bromonaphthalene

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

9.4.6

9

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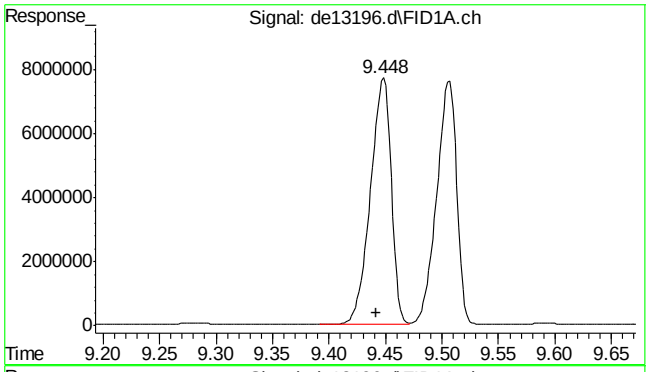
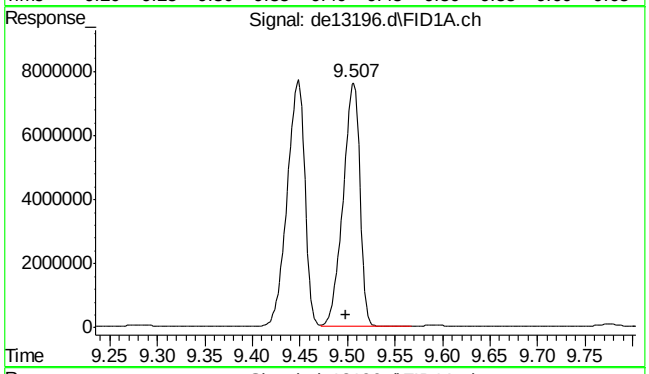


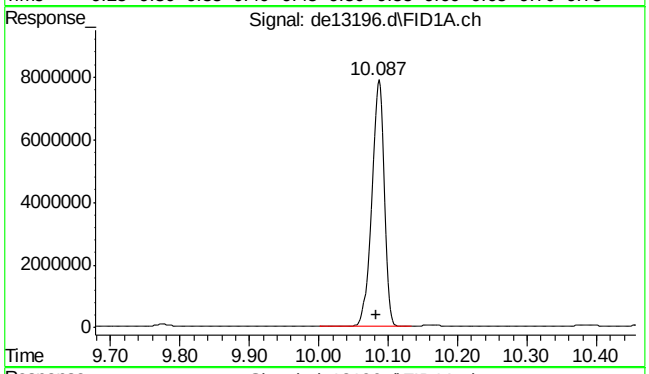
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



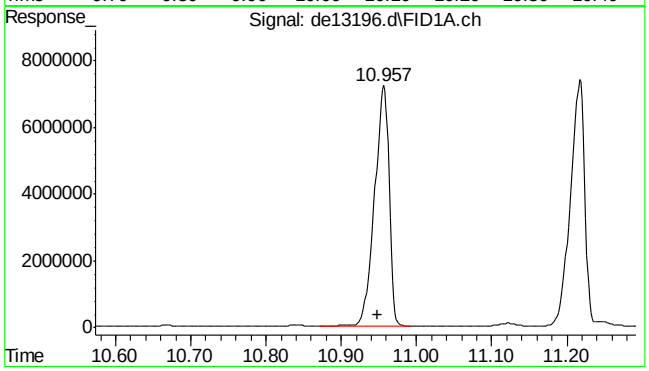
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

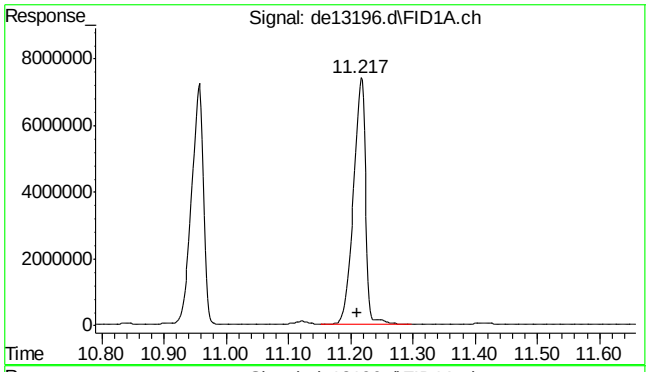
R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



#12 fluoranthene

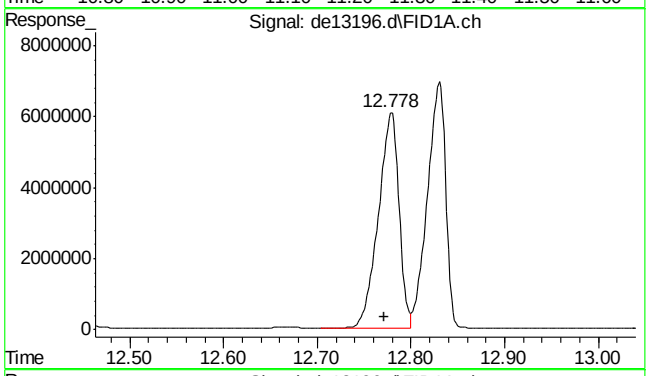
R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

SGS ACCUTEST MC45799



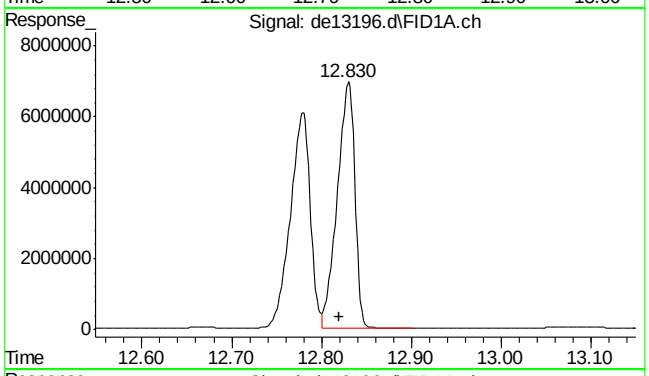
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



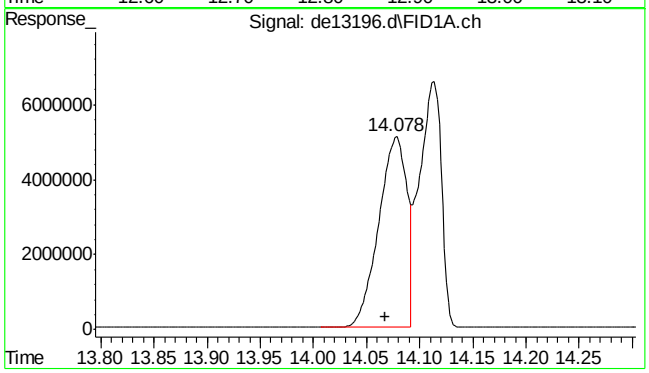
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

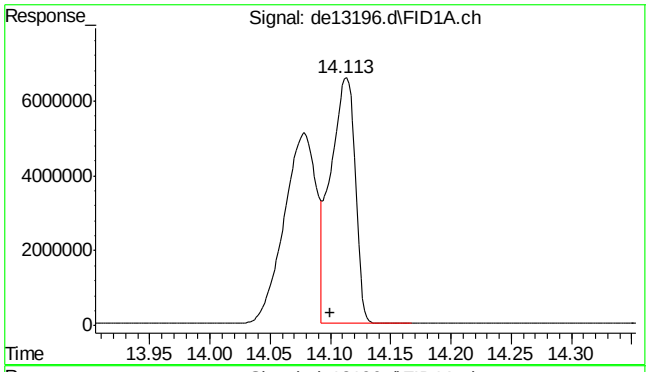
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

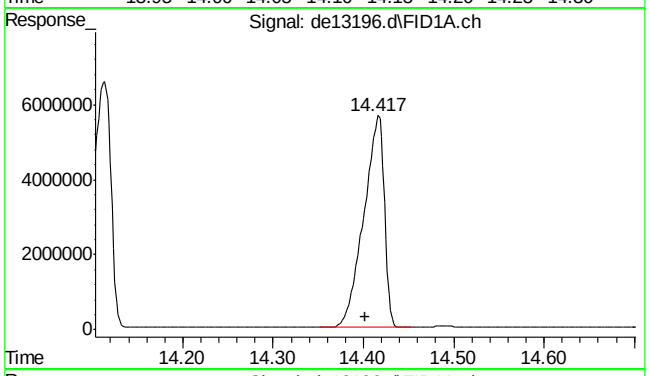
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45799



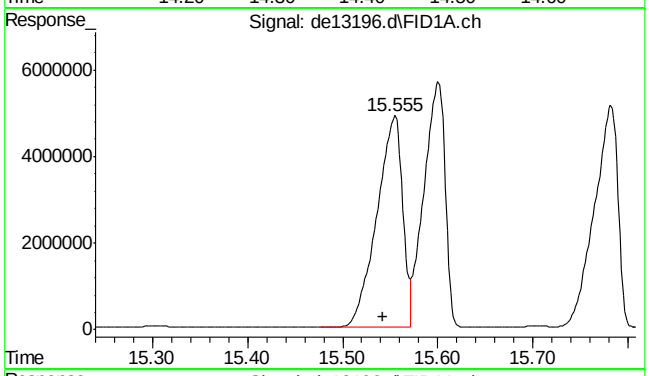
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



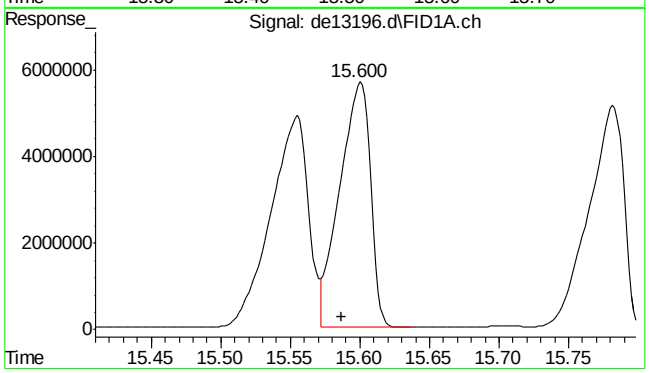
#18 benzo(a)pyrene

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



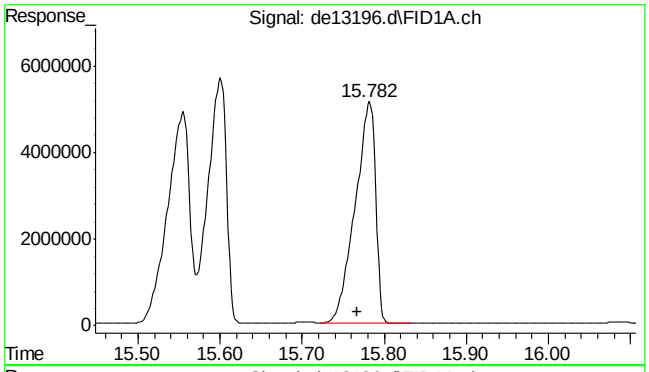
#20 dibenzo(ah)anthracene

R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

9.4.6

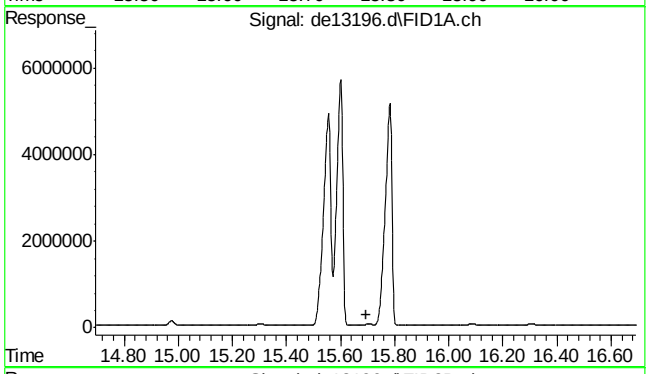
9

SGS ACCUTEST MC45799



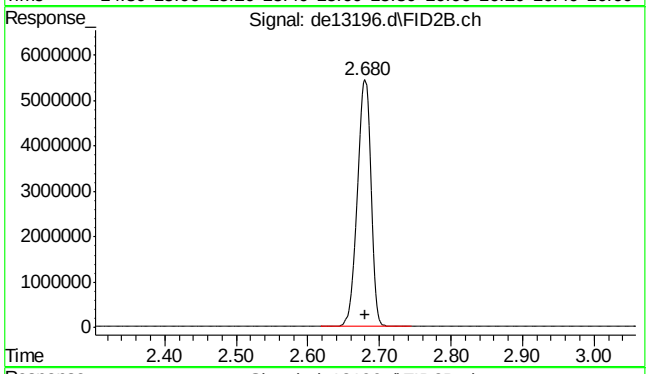
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



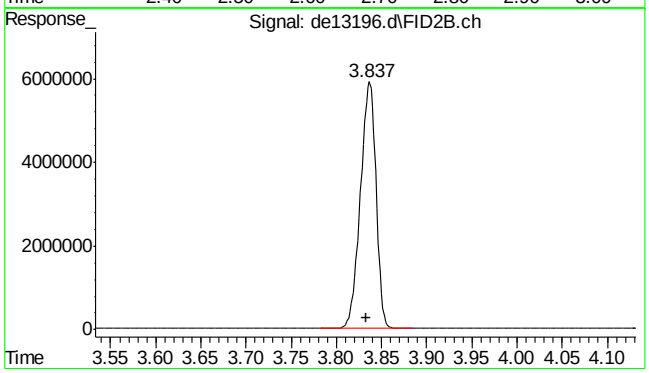
#22 bht

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



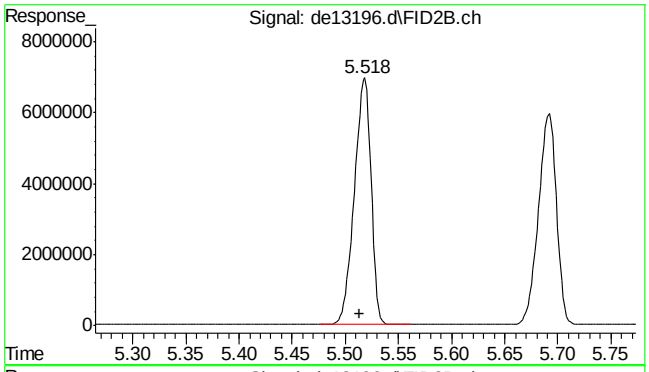
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

9.4.6

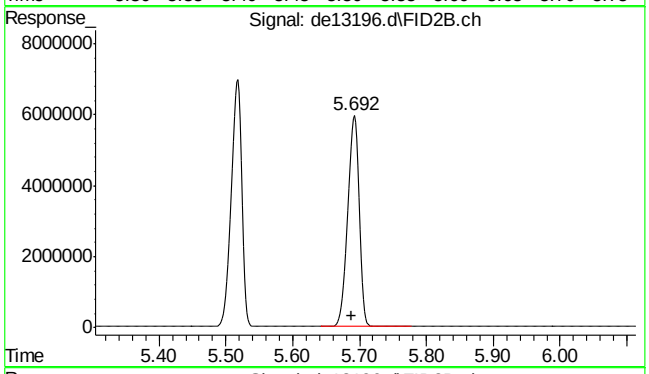
9

SGS ACCUTEST MC45799



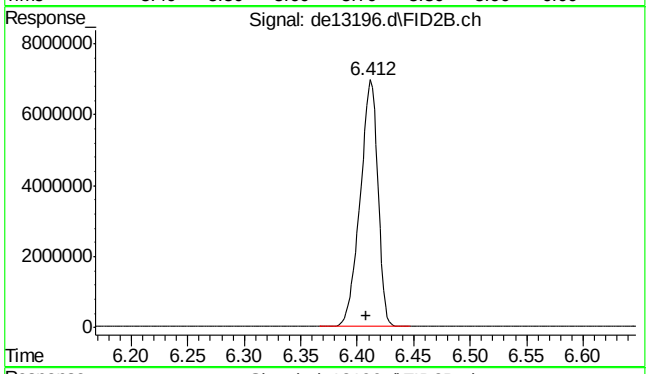
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



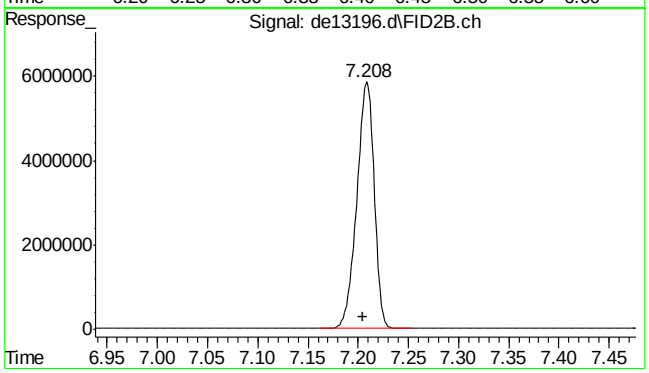
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



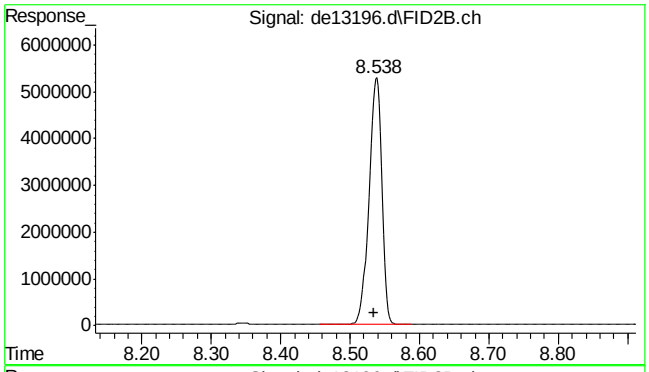
#29 2-methylnaphthalene #2

R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



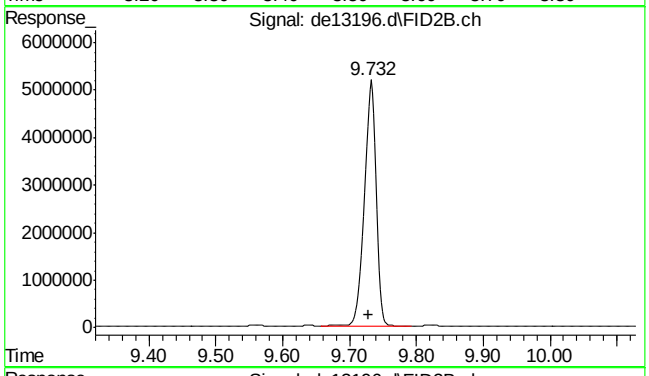
#30 c-14

R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml



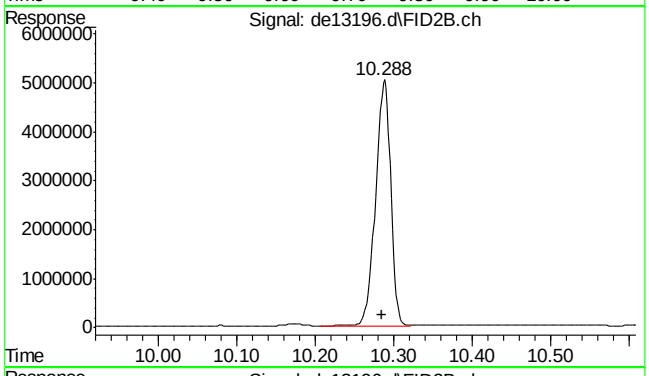
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



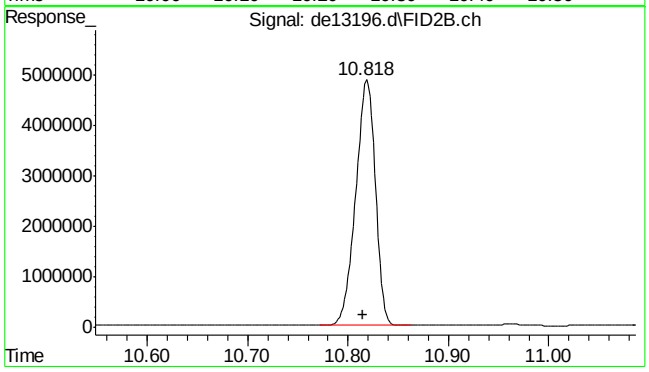
#32 c-18

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

9.4.6

9

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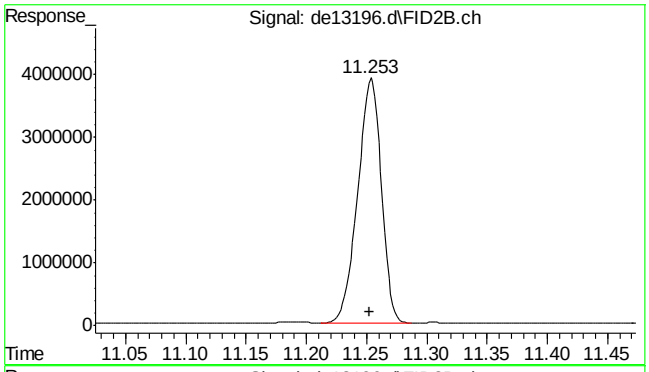
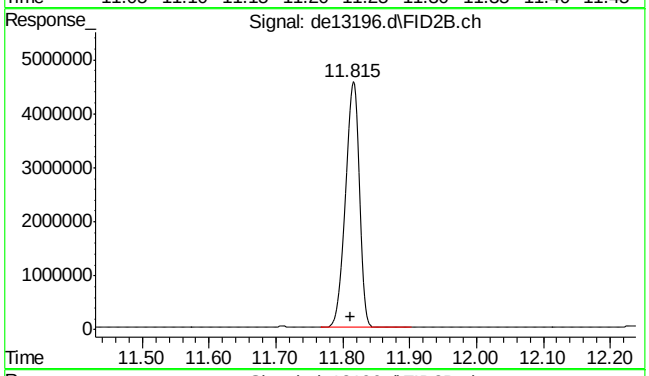


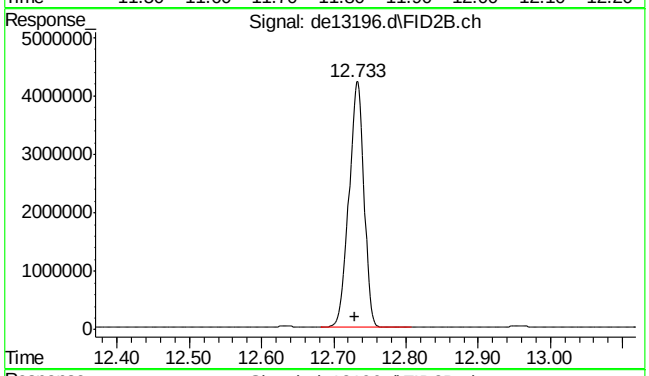
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



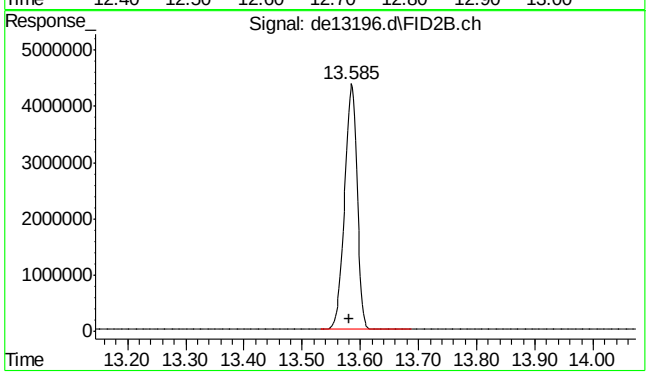
#36 c-22

R.T.: 11.815 min
Delta R.T.: 0.003 min
Response: 6550653
Conc: 92.52 µg/ml



#37 c-24

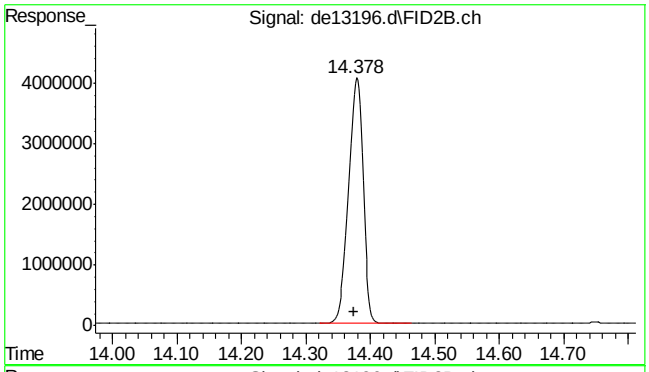
R.T.: 12.733 min
Delta R.T.: 0.003 min
Response: 6102937
Conc: 91.14 µg/ml



#38 c-26

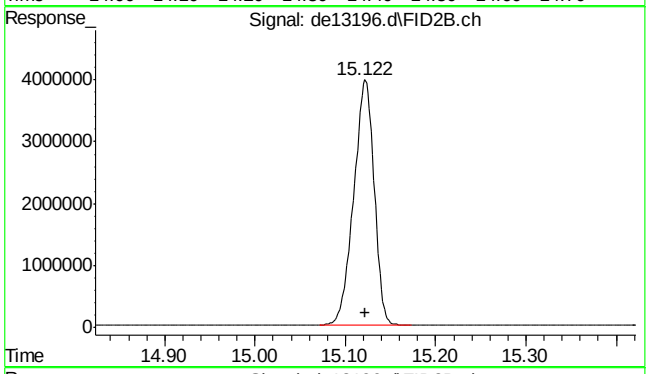
R.T.: 13.585 min
Delta R.T.: 0.003 min
Response: 6486501
Conc: 92.53 µg/ml

SGS ACCUTEST MC45799



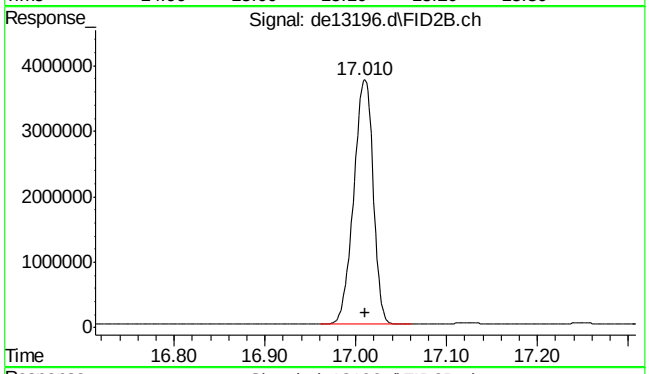
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



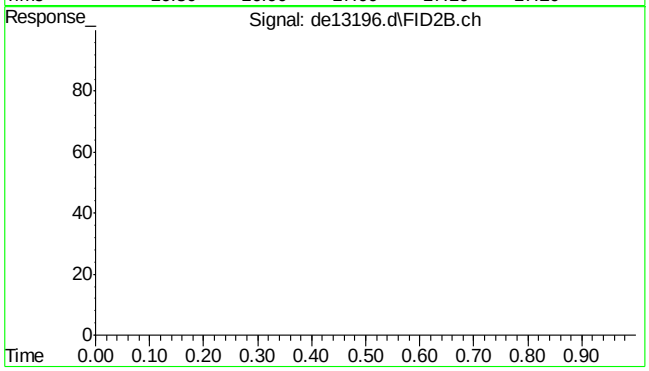
#40 c-30

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



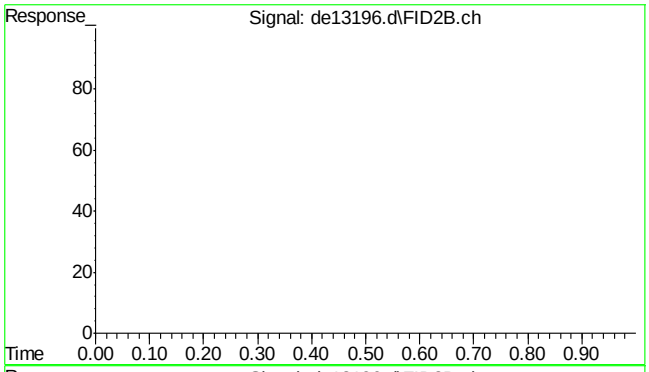
#42 bht

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

9.4.6

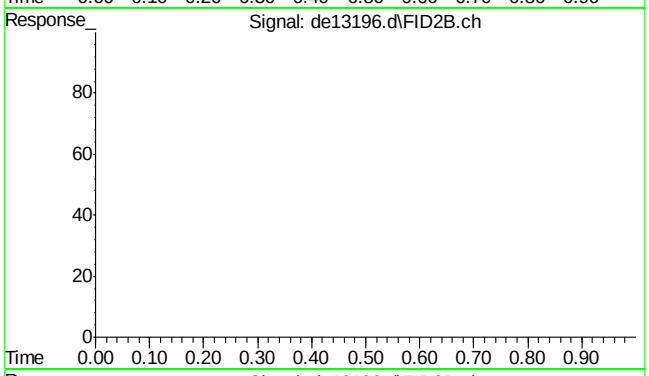
9

SGS ACCUTEST MC45799



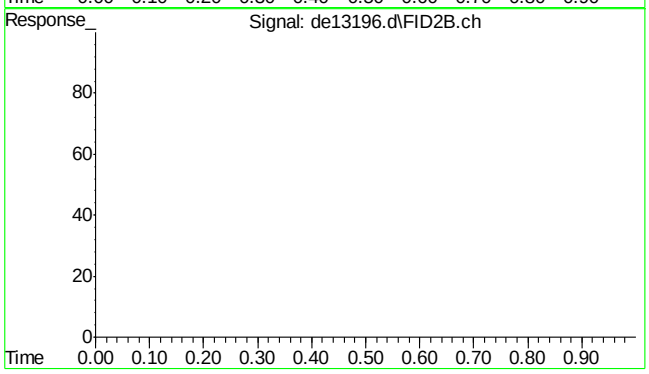
#43 bht

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



#44 bht

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



#45 bht

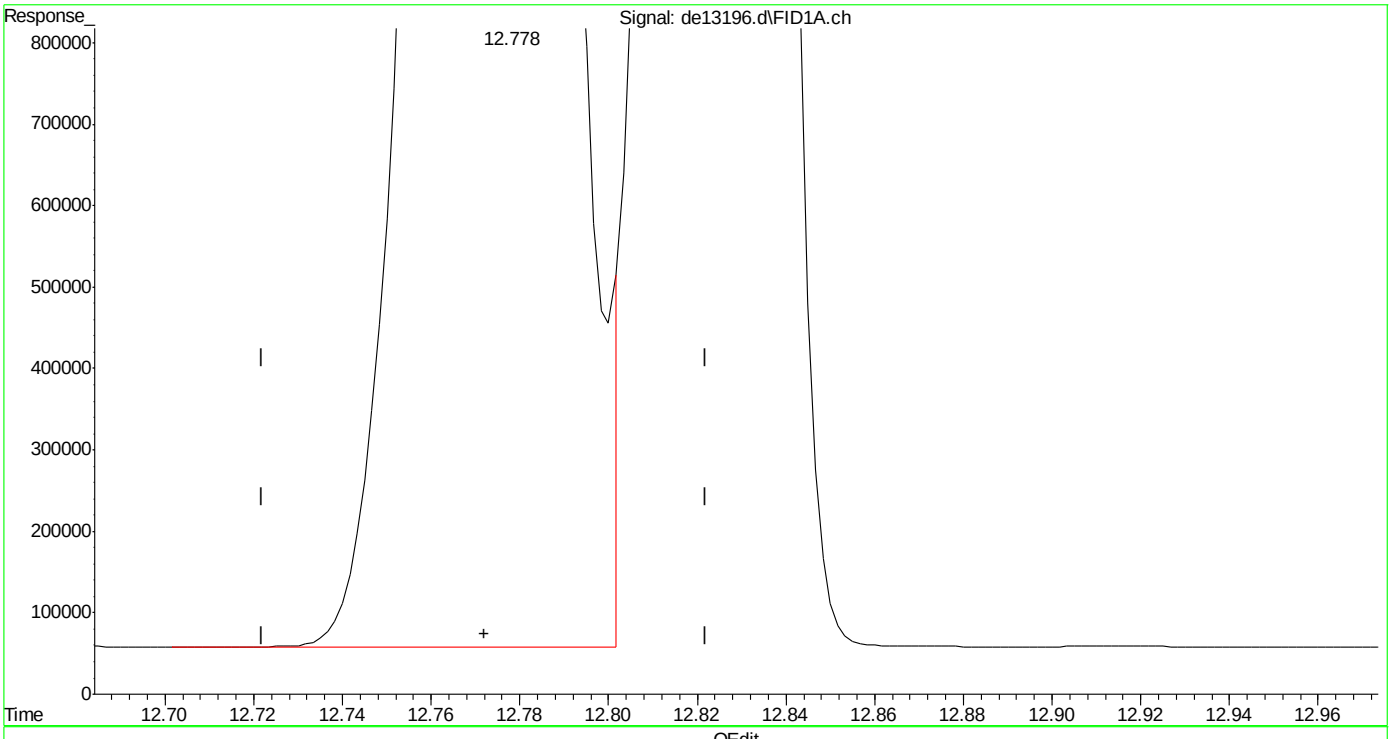
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 10:59:36 2016 Page: 1

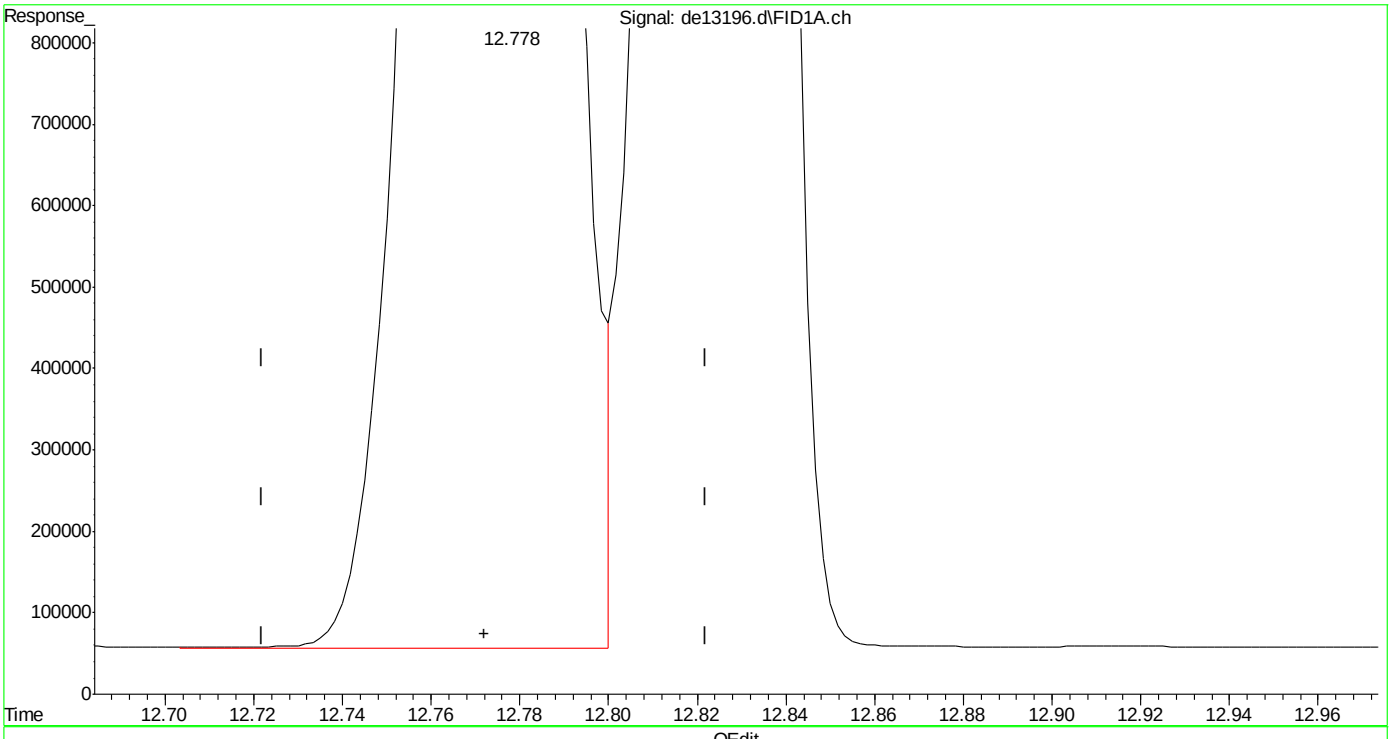
SGS ACCUTEST MC45799

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

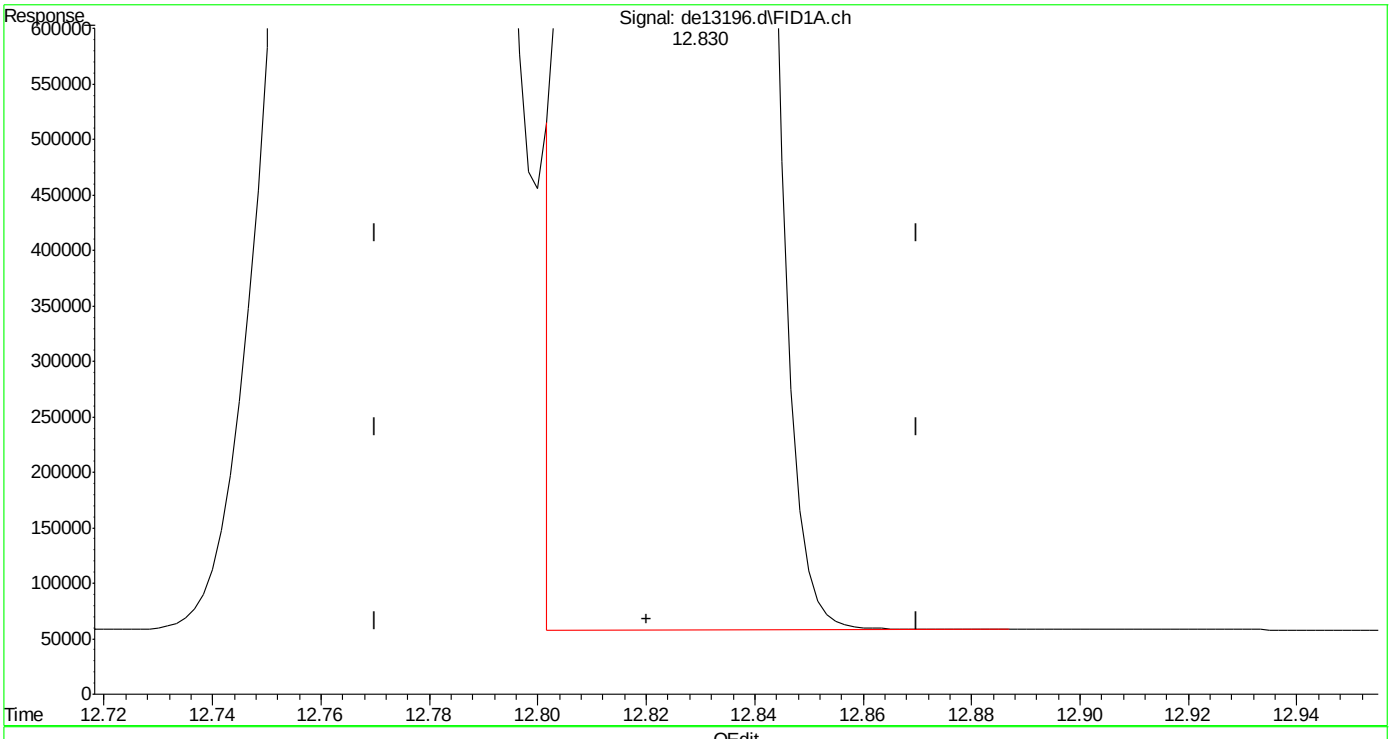
(+) = Expected Retention Time

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

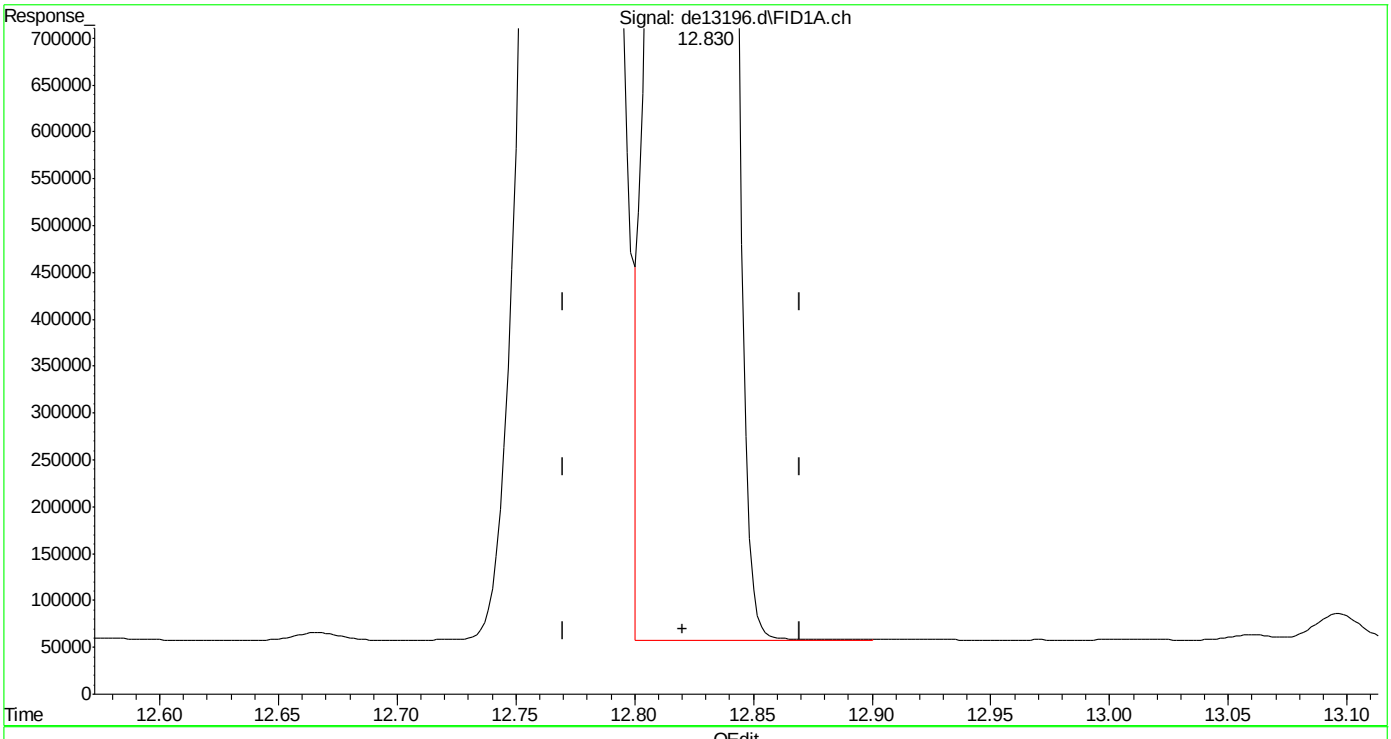
(+) = Expected Retention Time

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

SGS ACCUTEST MC45799

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

SGS ACCUTEST MC45799

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.

9.4.7

9

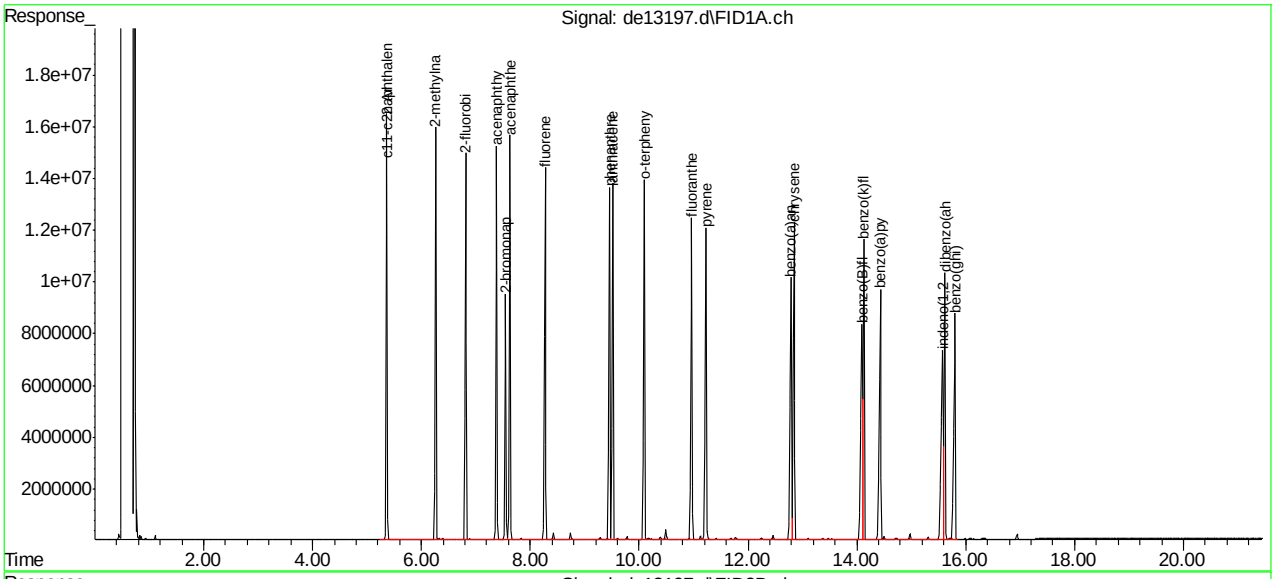
SGS ACCUTEST MC45799

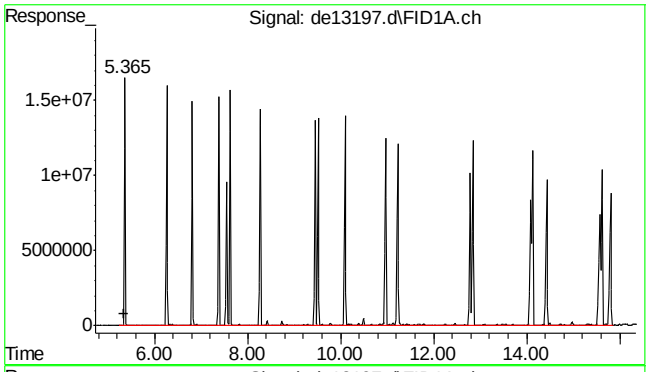
Quantitation Report (QT Reviewed)

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

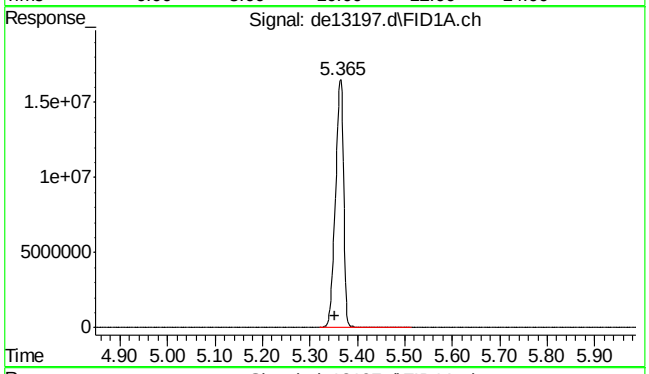
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





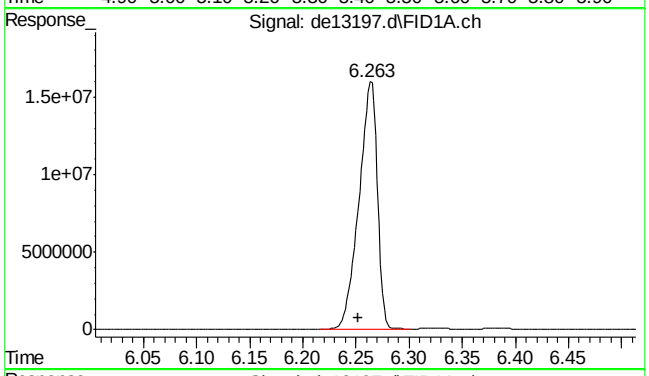
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



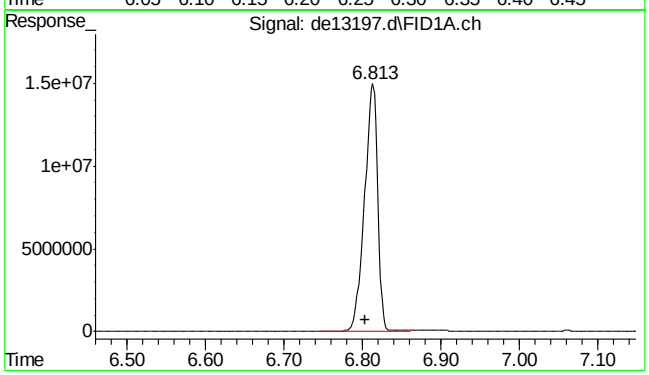
#2 naphthalene

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

9.4.7

9

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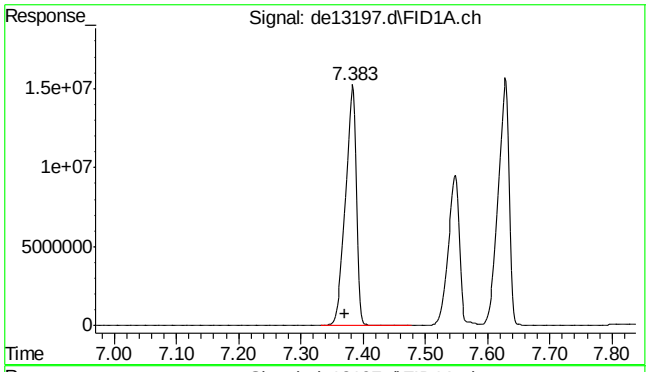
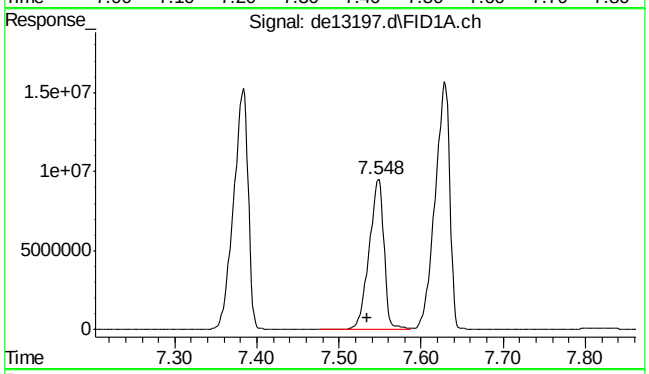


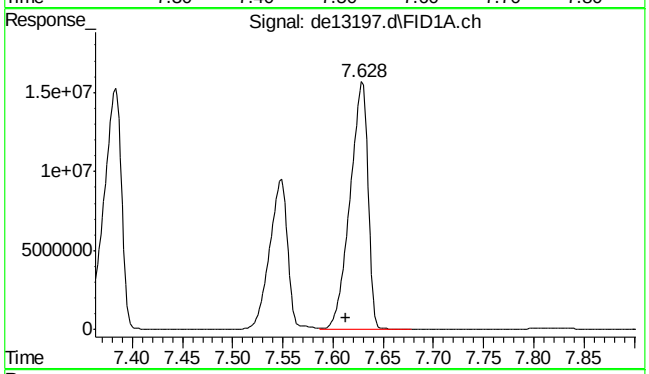
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



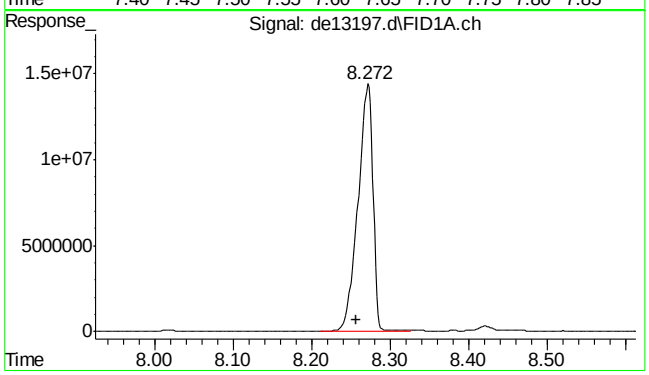
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

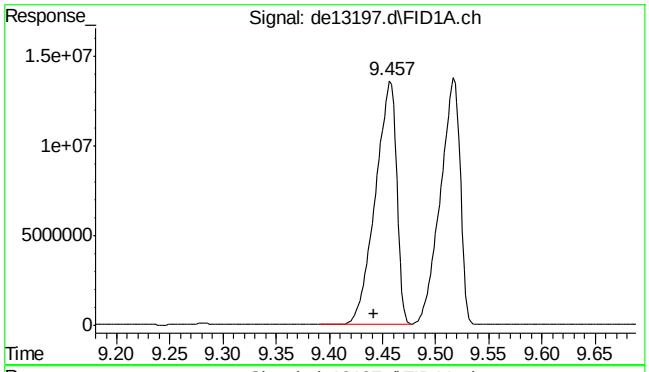
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

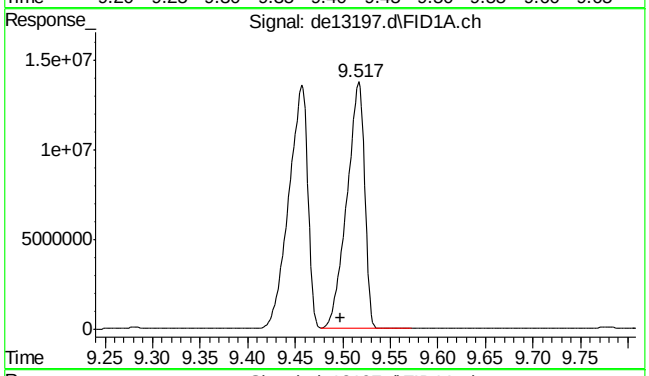
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC45799



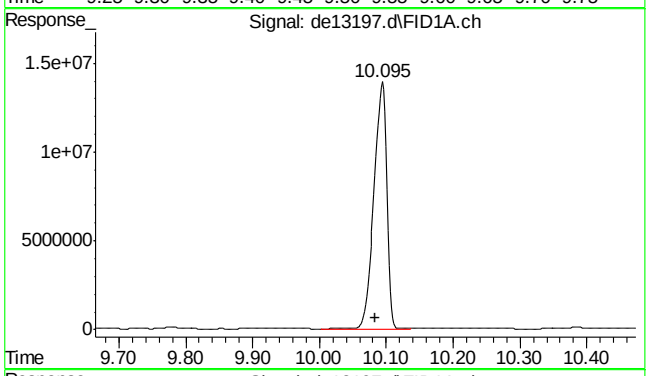
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



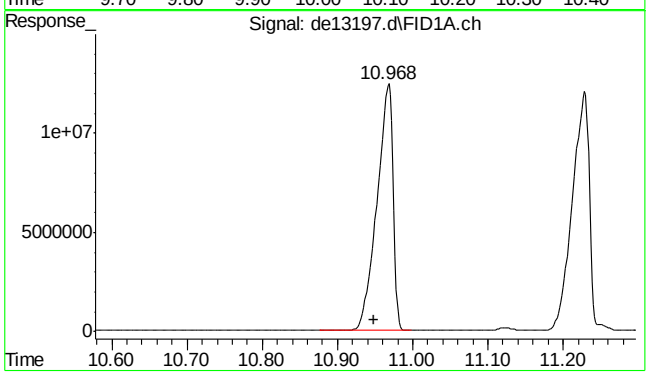
#10 anthracene

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



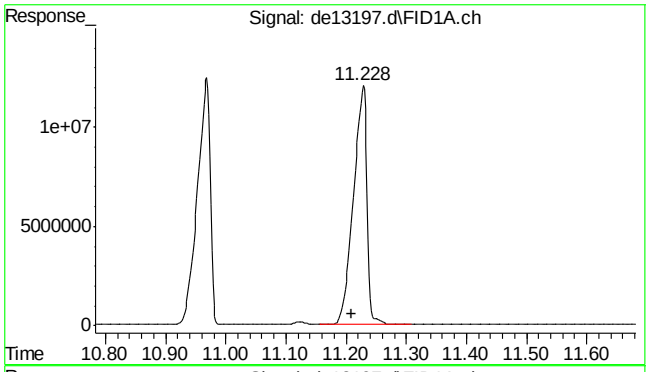
#12 fluoranthene

R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

9.4.7

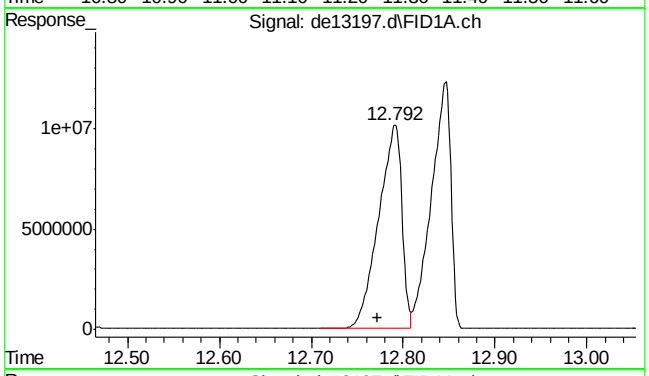
9

SGS ACCUTEST MC45799



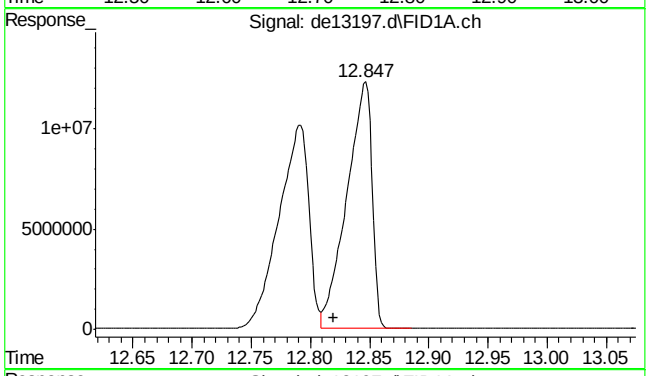
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



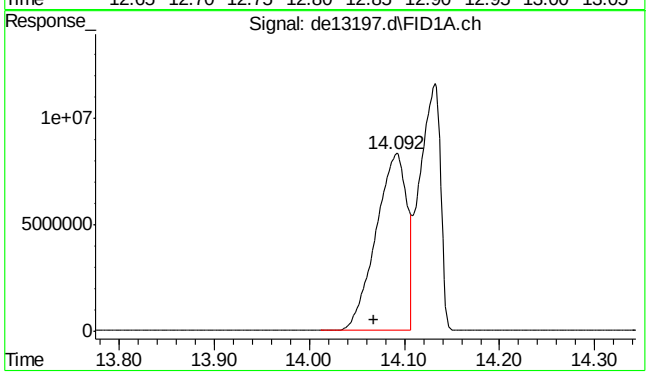
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



#15 chrysene

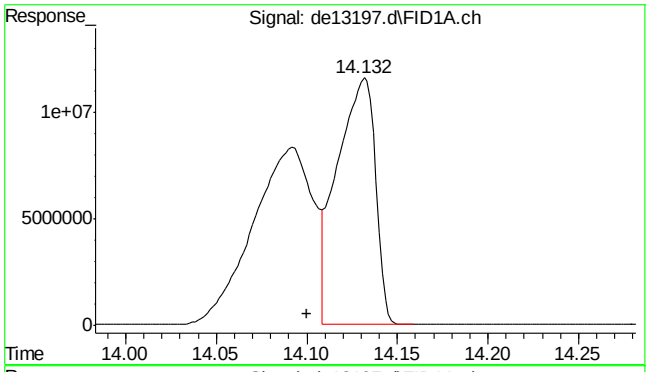
R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



#16 benzo(B)fluoranthene

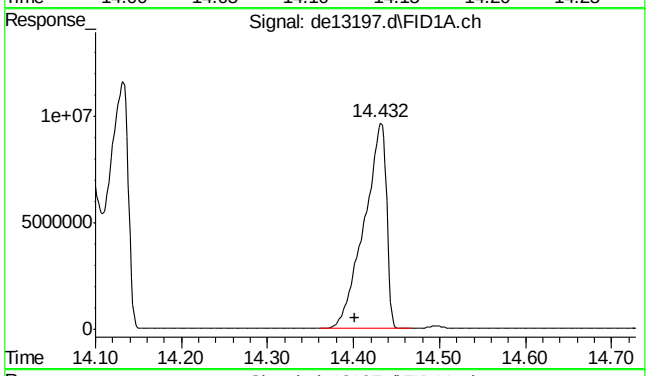
R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml

SGS ACCUTEST MC45799



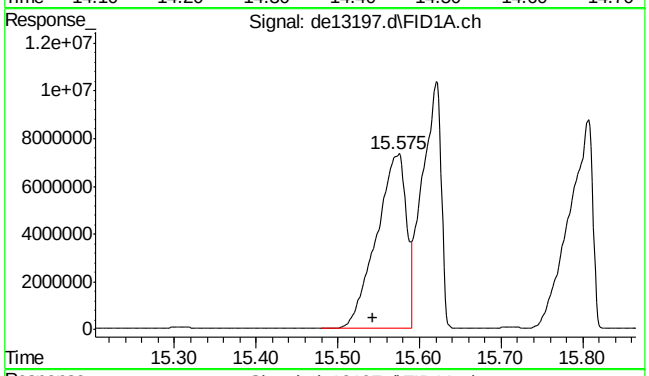
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



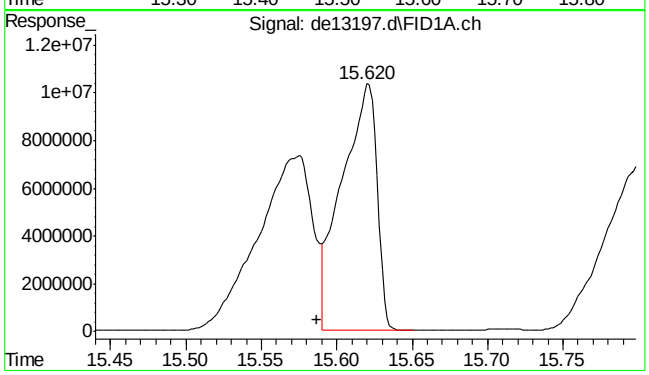
#18 benzo(a)pyrene

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



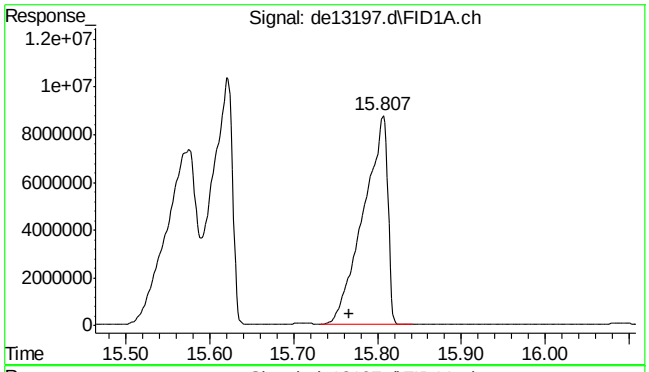
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.4.7

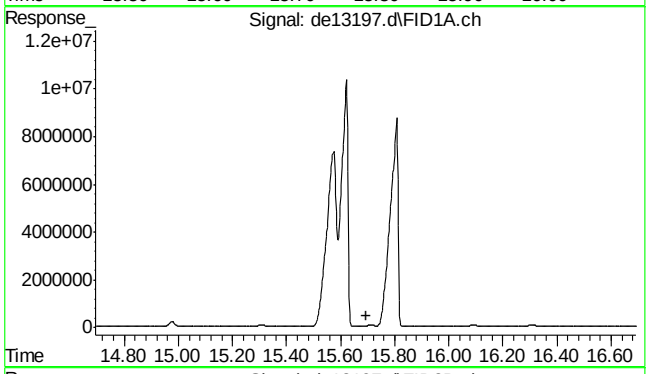
9

SGS ACCUTEST MC45799



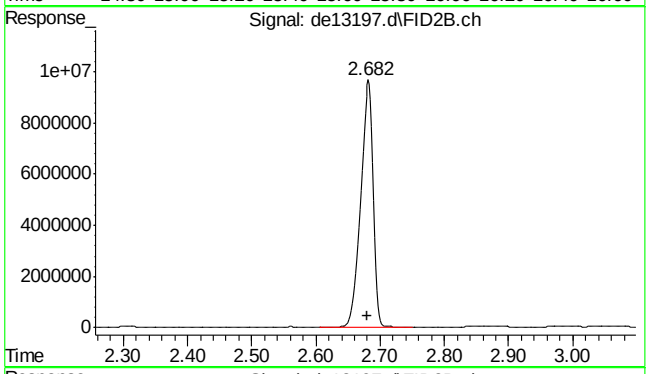
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



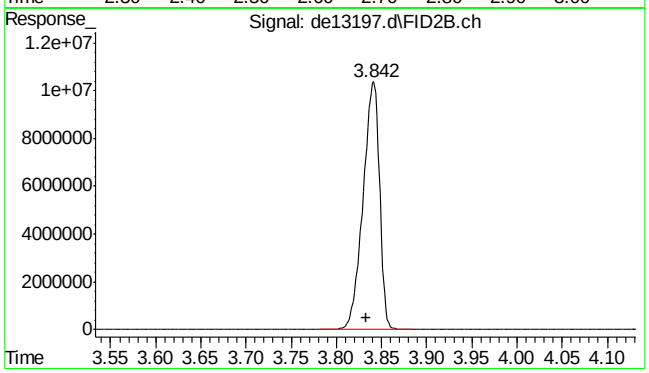
#22 bht

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



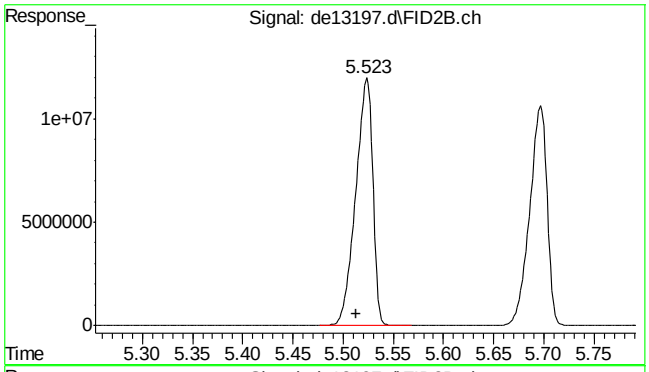
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.4.7

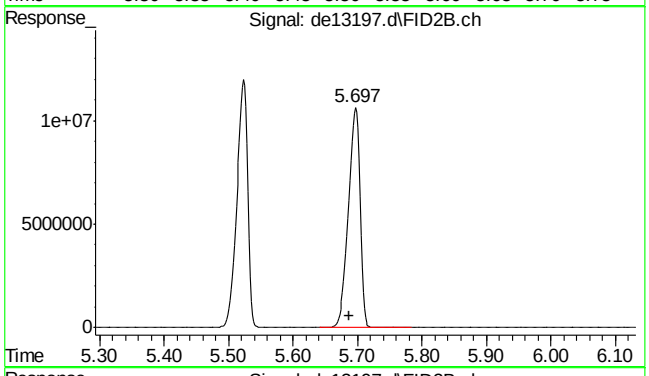
9

SGS ACCUTEST MC45799



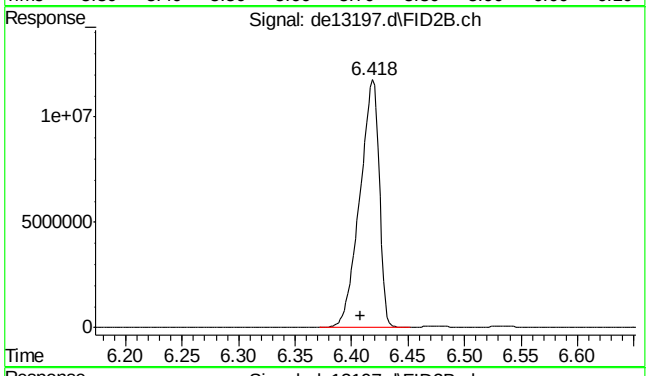
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



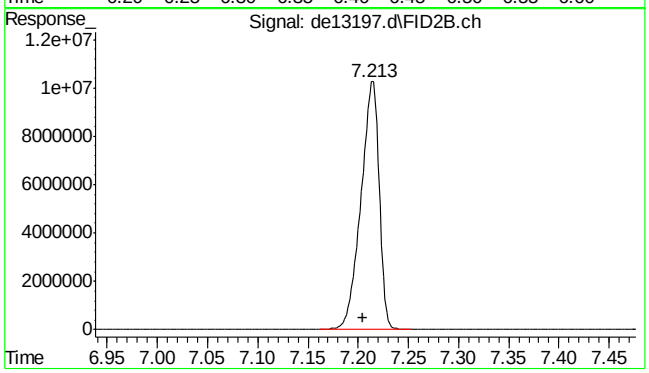
#28 c-12

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



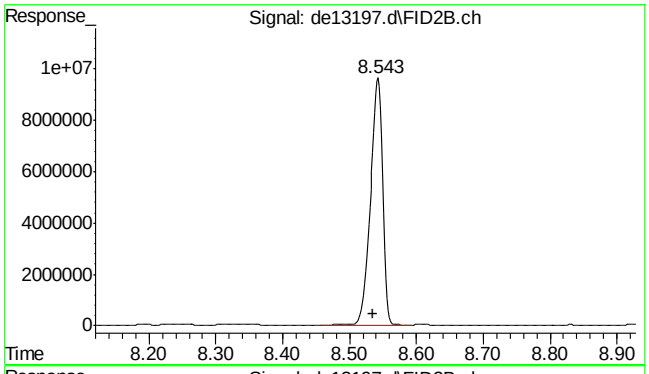
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.4.7

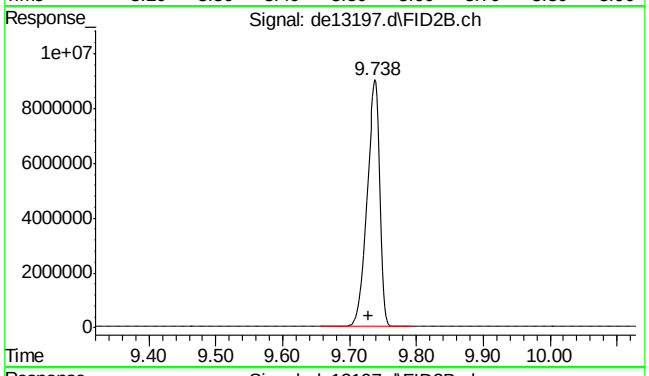
9

SGS ACCUTEST MC45799



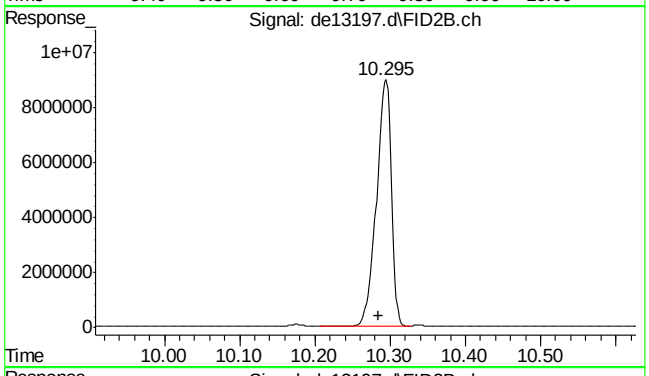
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



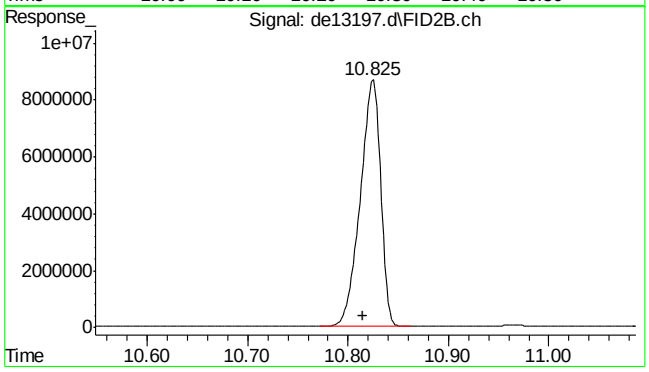
#32 c-18

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



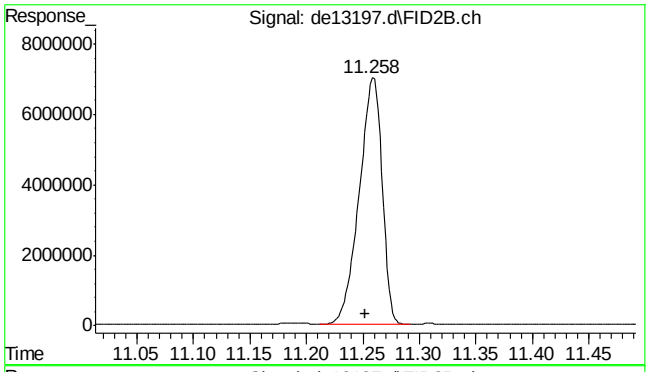
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.4.7

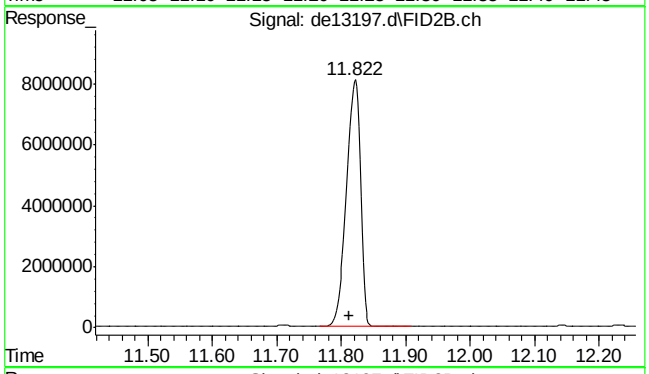
9

SGS ACCUTEST MC45799



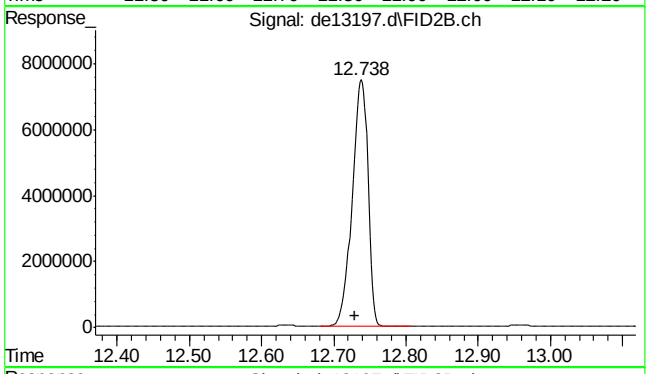
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



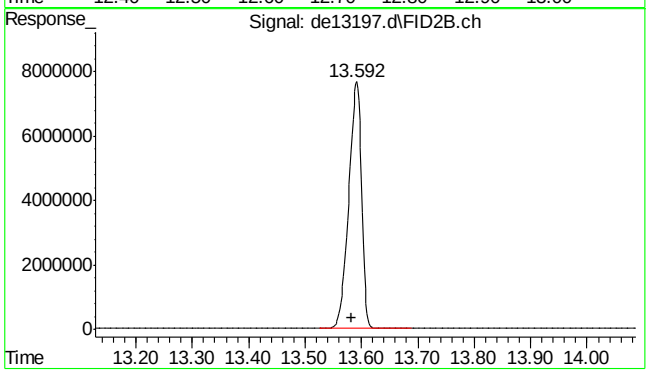
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

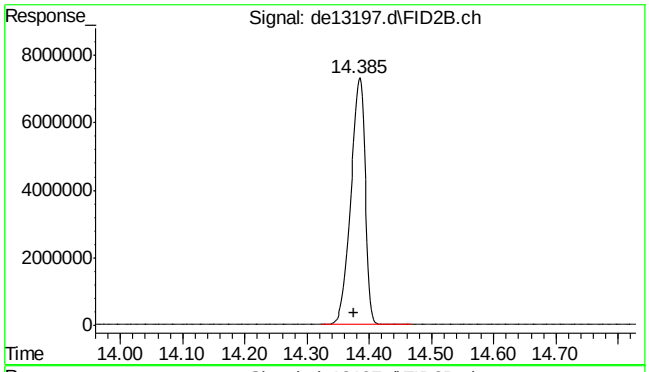
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

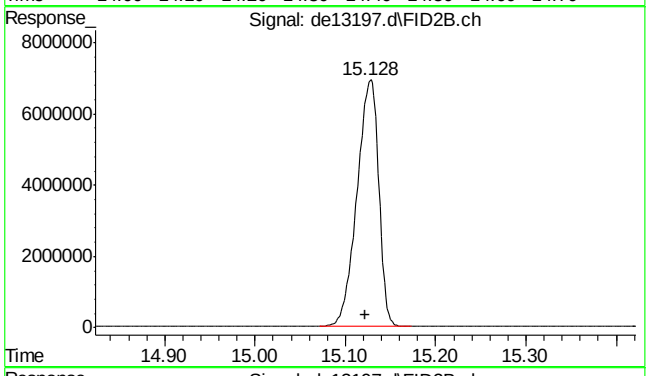
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC45799



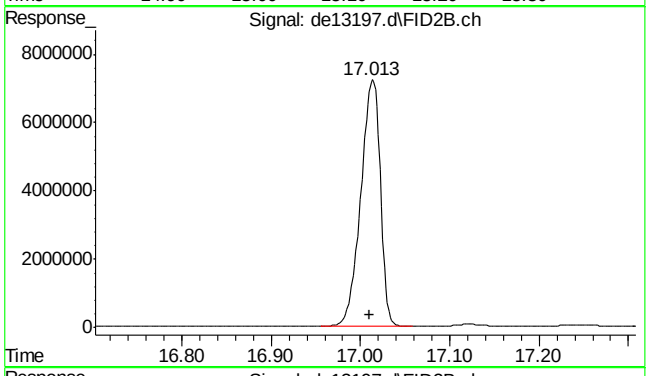
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



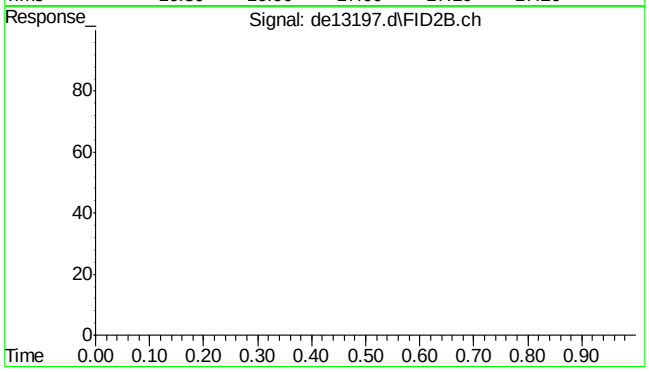
#40 c-30

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



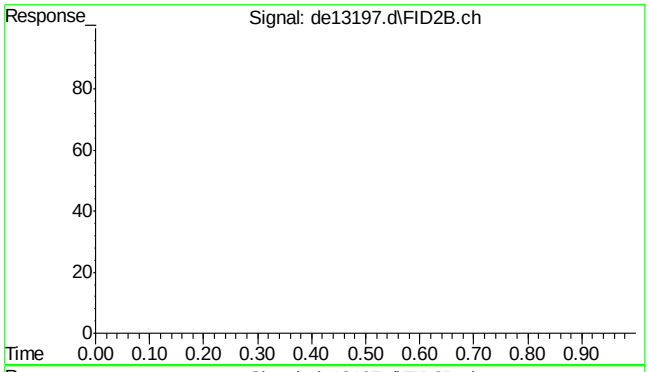
#42 bht

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

9.4.7

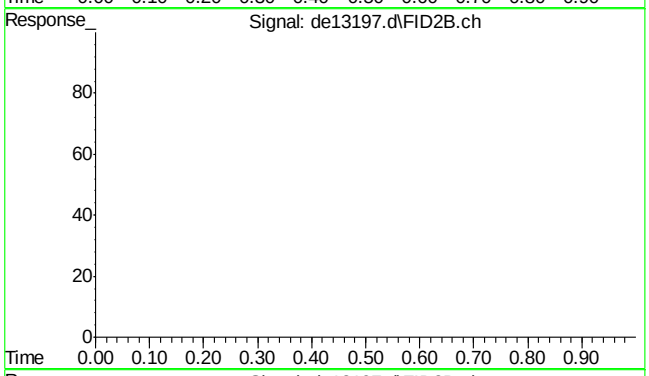
9

SGS ACCUTEST MC45799



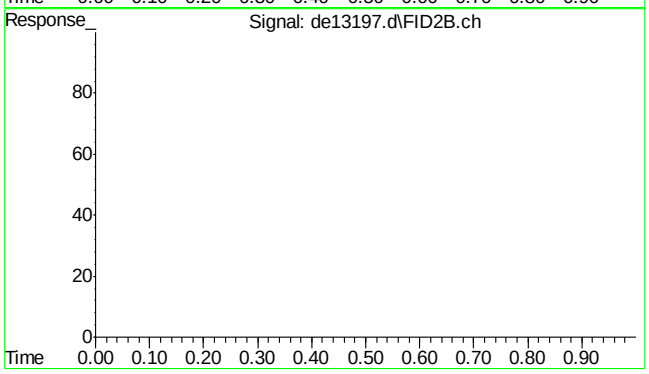
#43 bht

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.

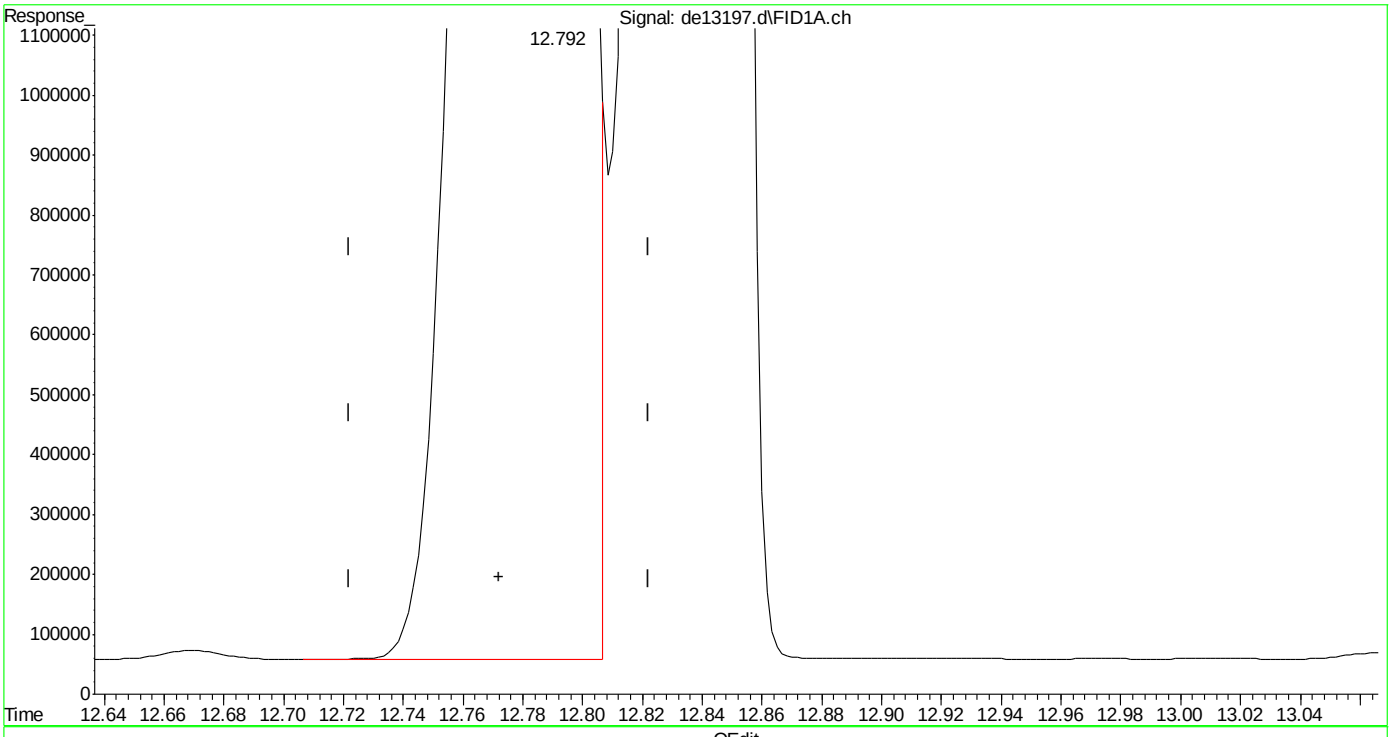
SGS ACCUTEST MC45799

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

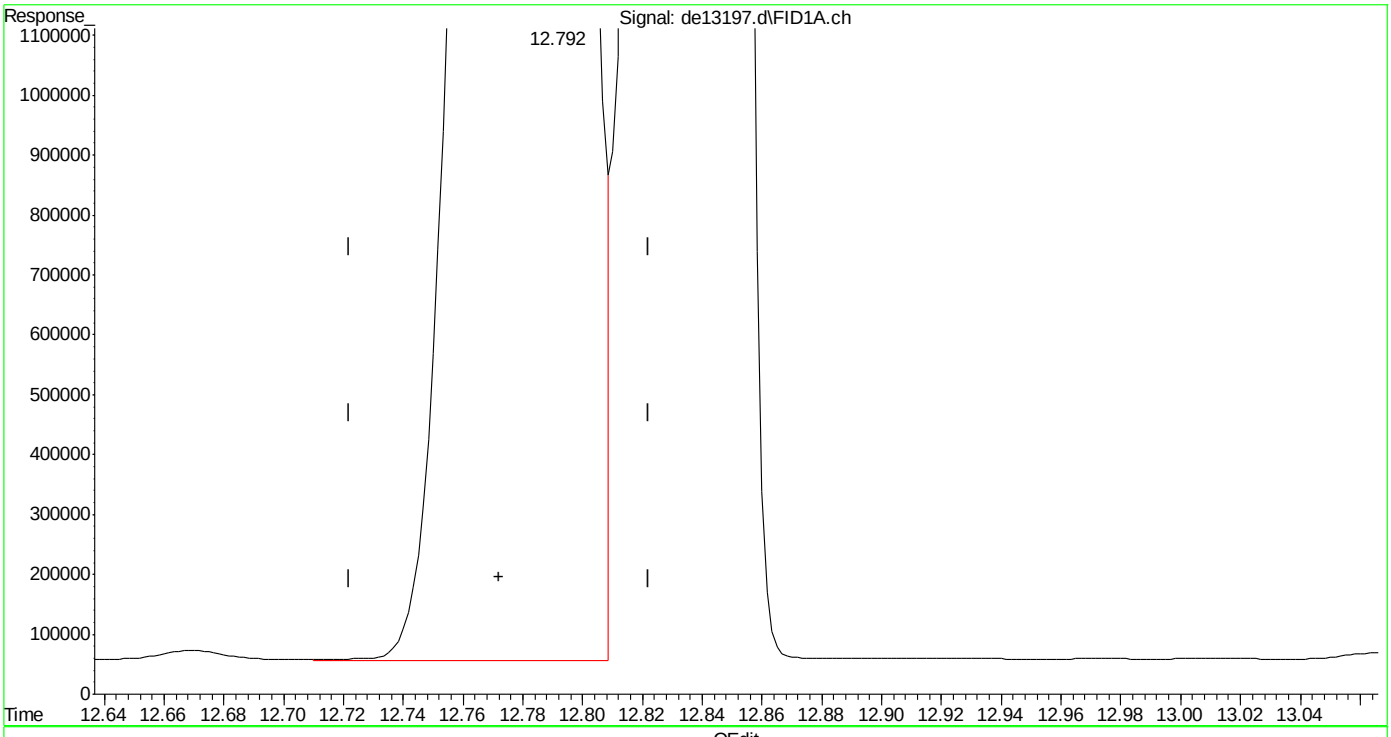
SGS ACCUTEST MC45799

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

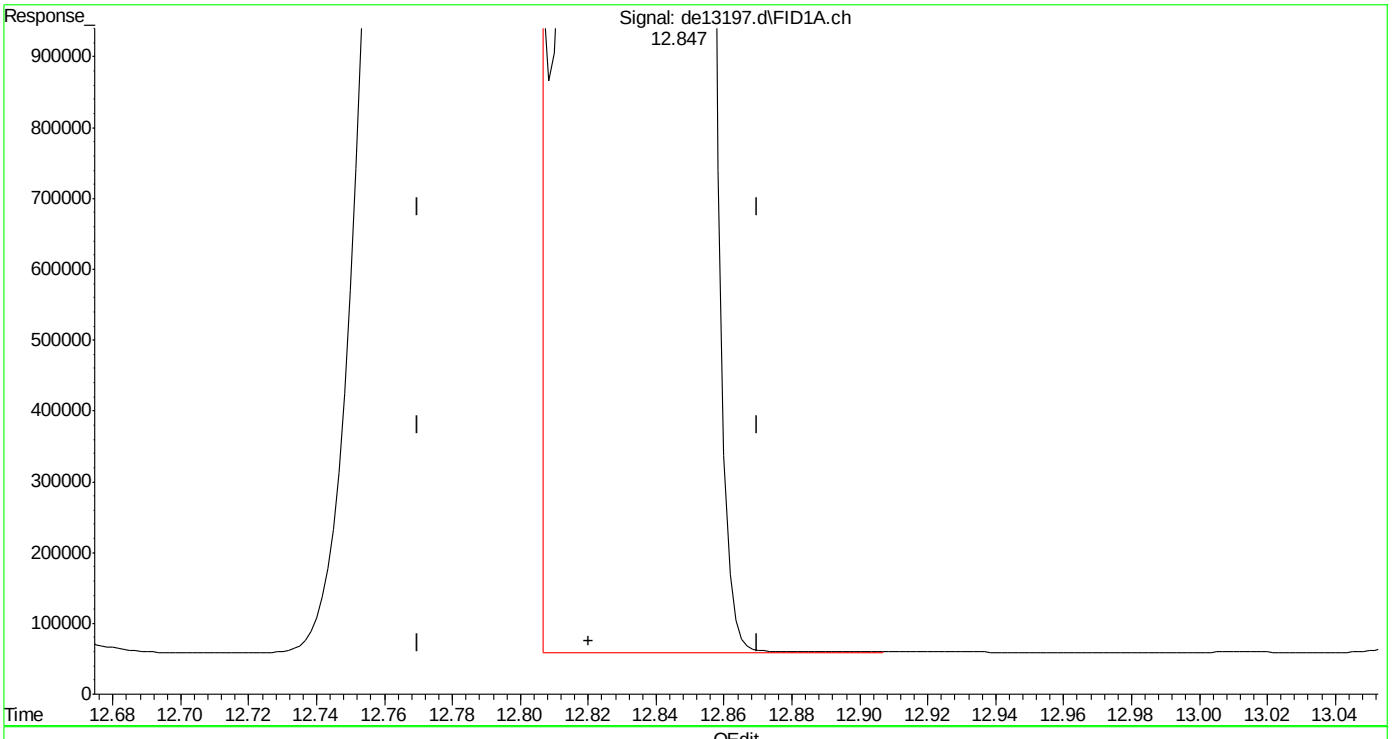
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

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

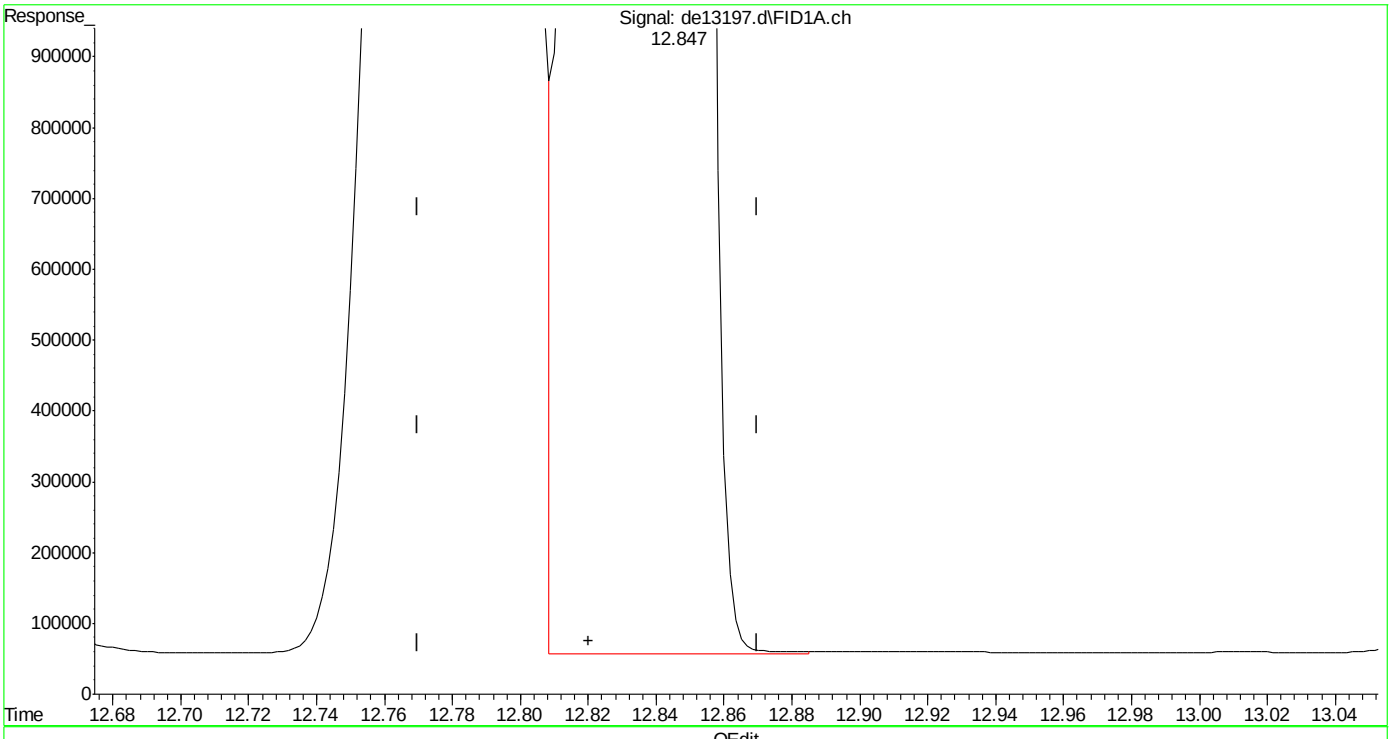
(+) = Expected Retention Time

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

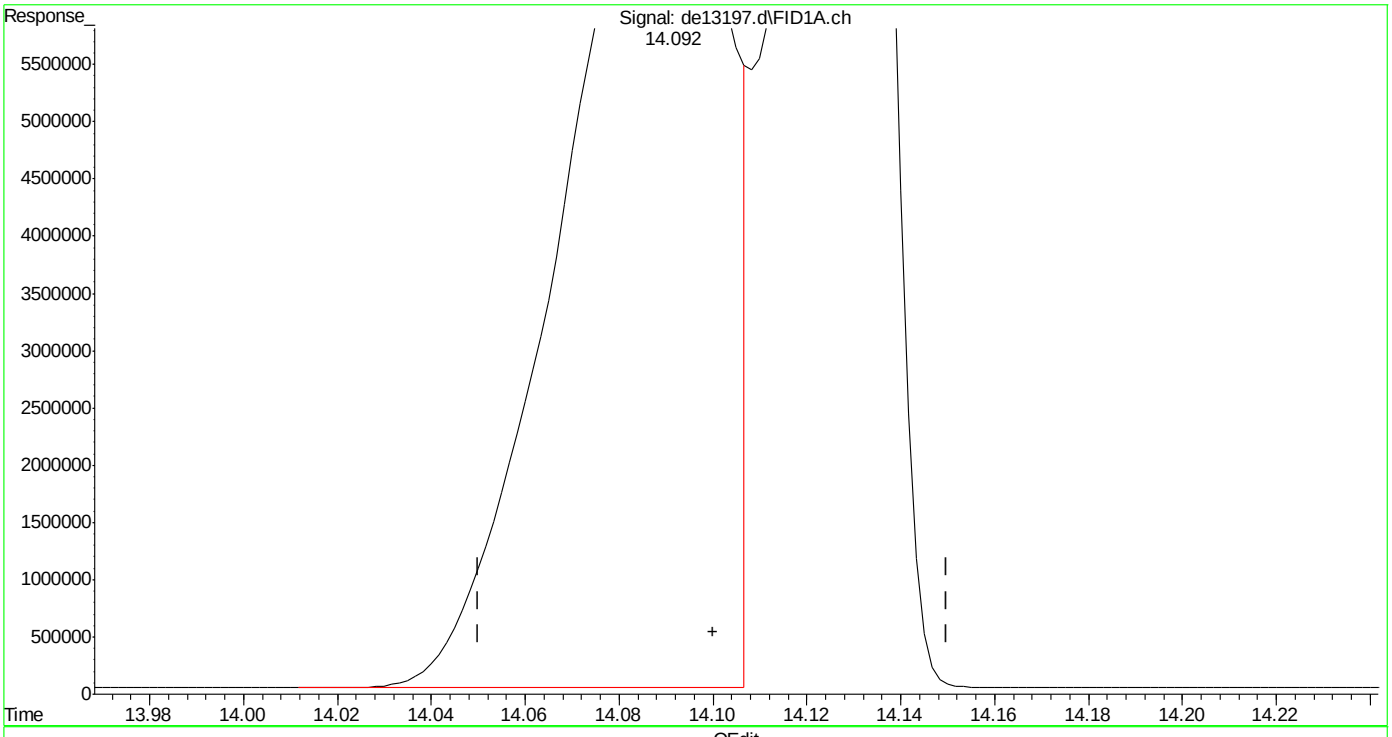
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:04:23 2016 Page: 1

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
14.092min 196.520 µg/ml
response 18893122

(+) = Expected Retention Time

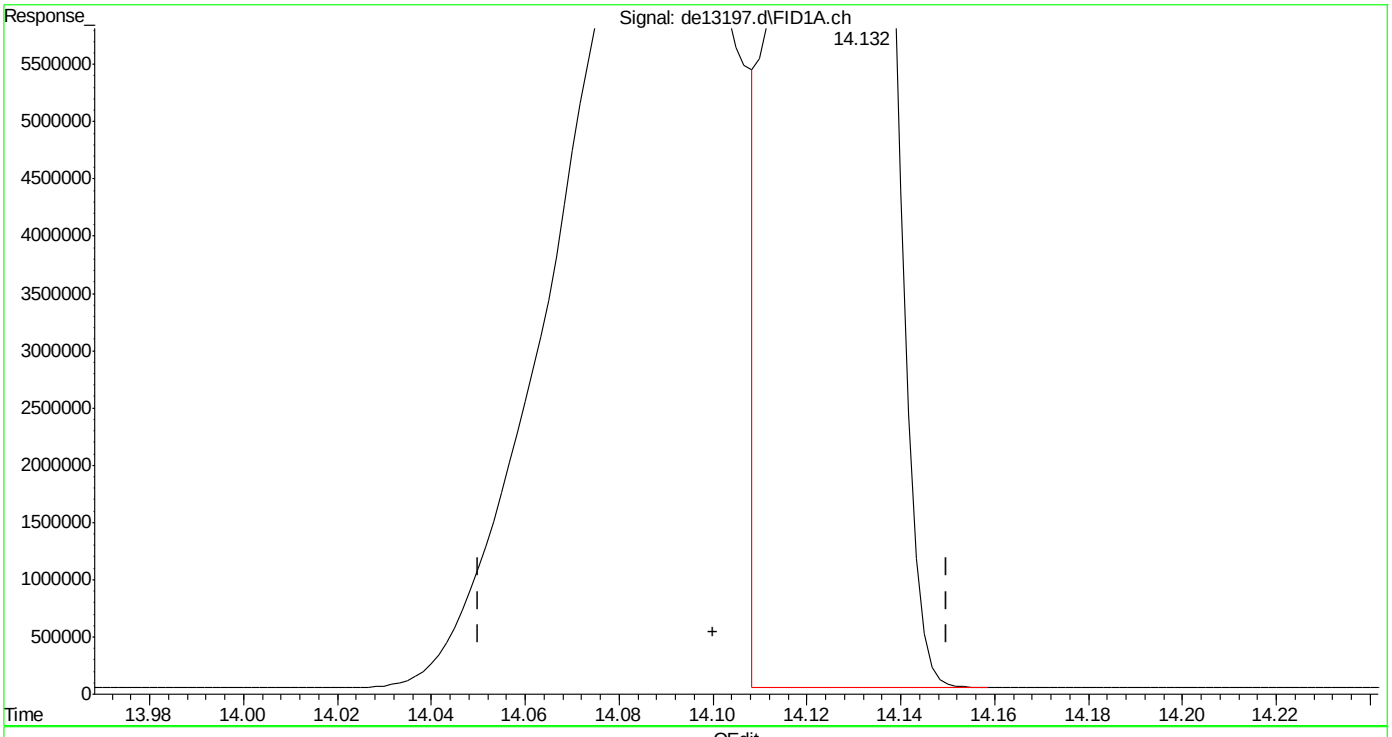
SGS ACCUTEST MC45799

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

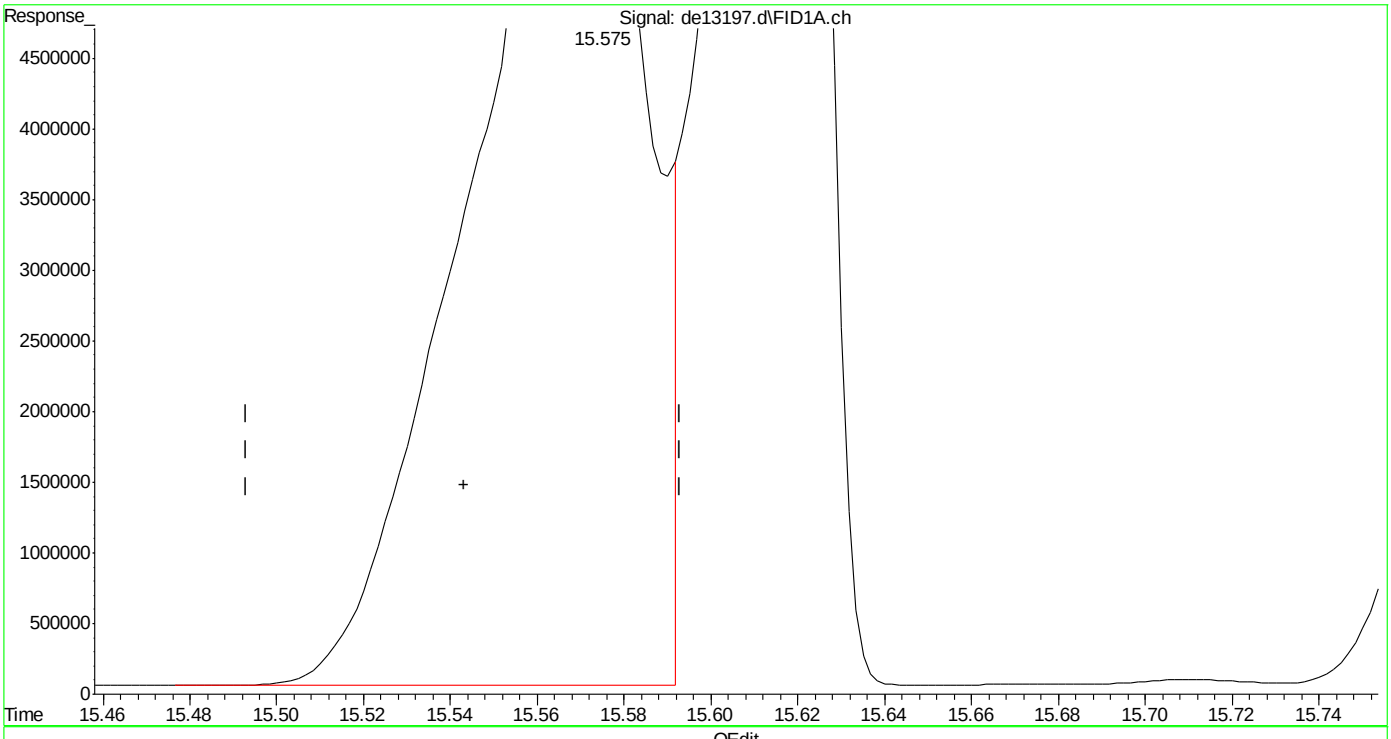
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.575min 197.907 µg/ml
response 19040403

(+) = Expected Retention Time

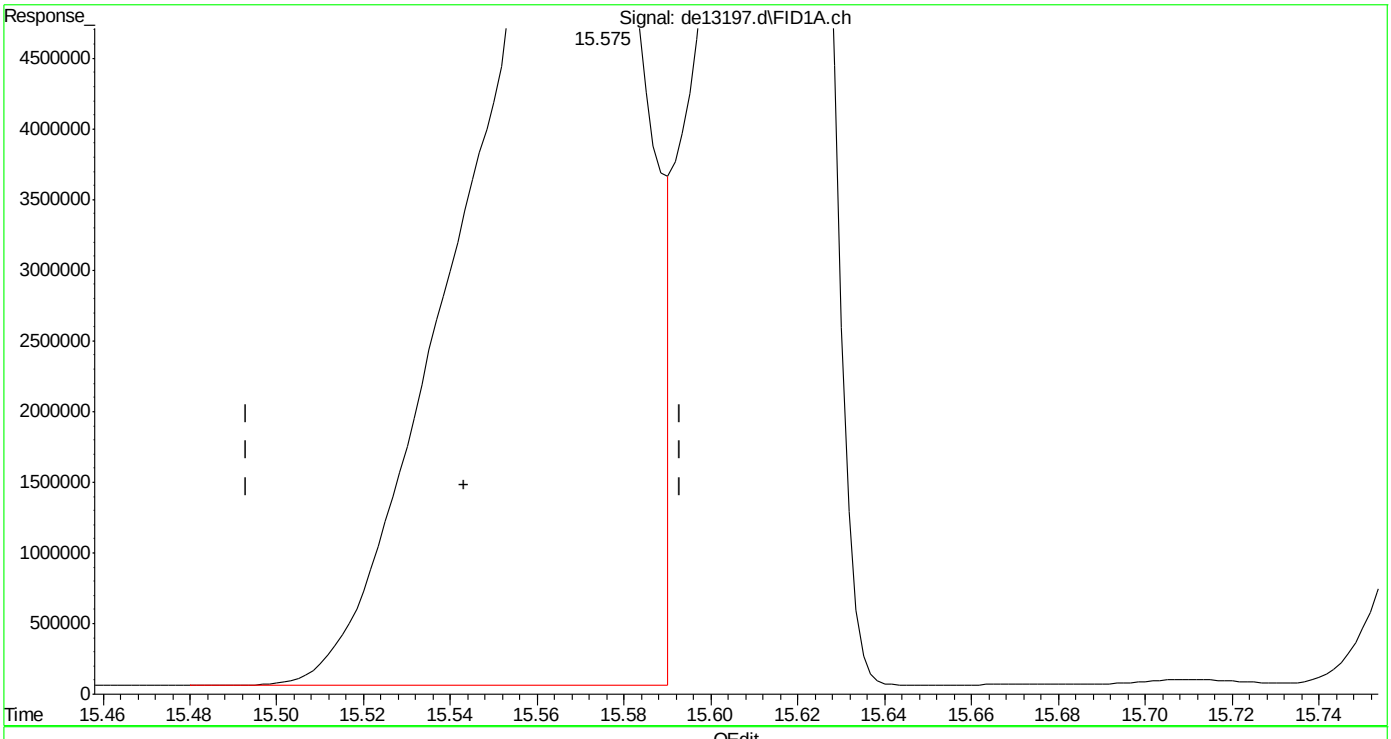
SGS ACCUTEST MC45799

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

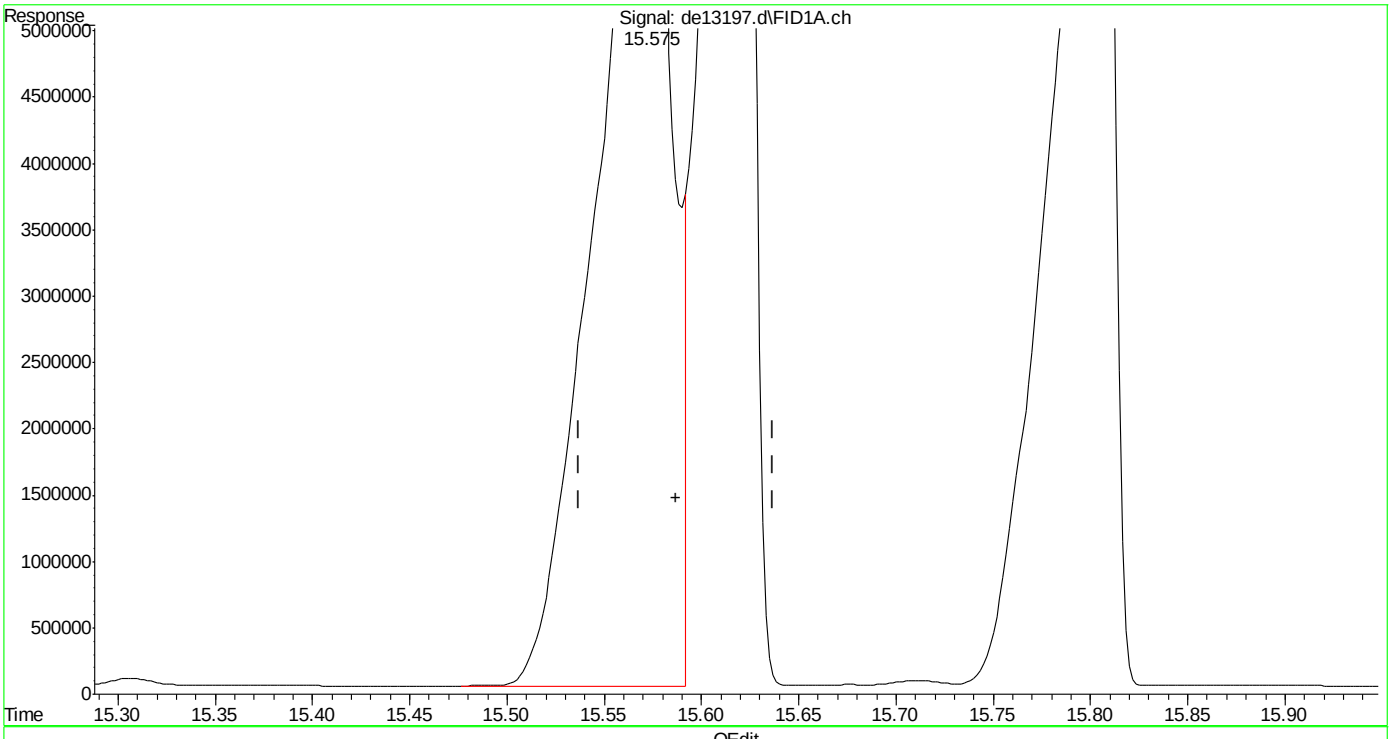
(+) = Expected Retention Time

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

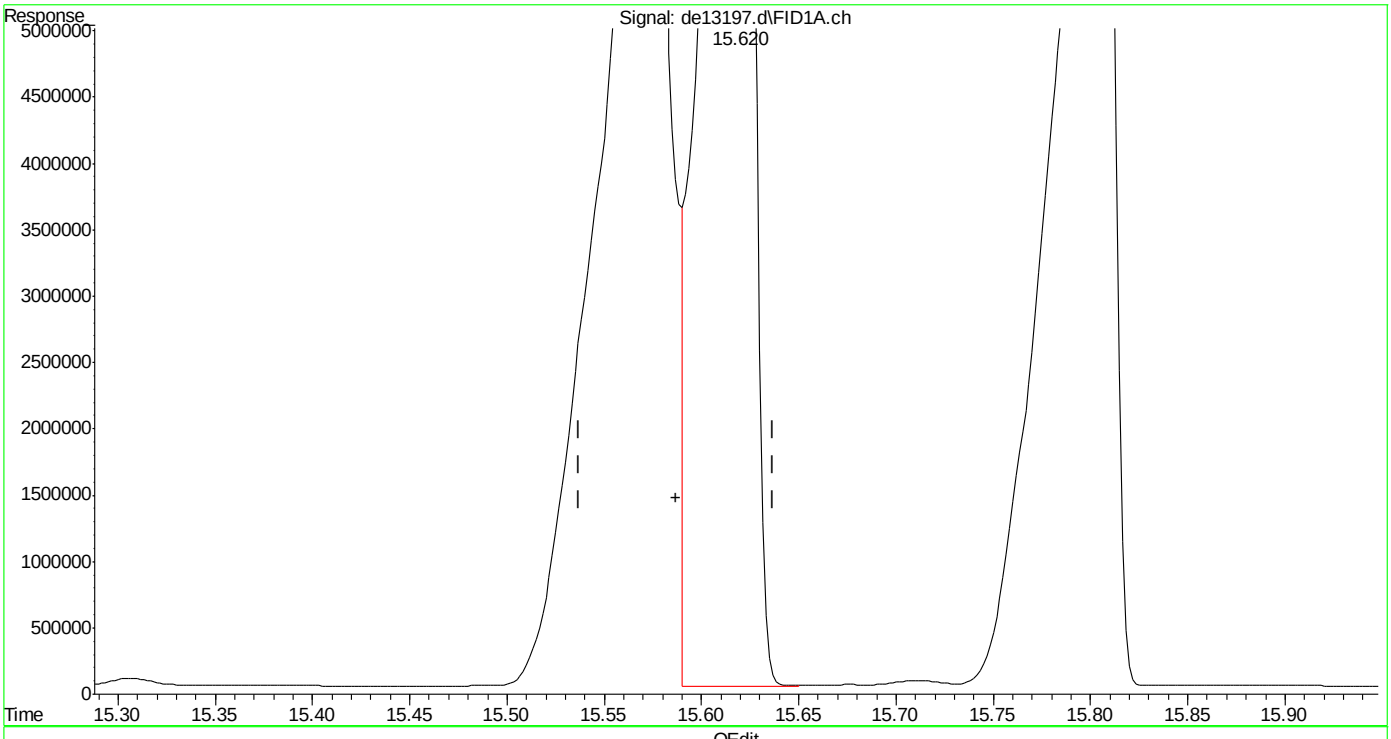
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.620min 180.145 µg/ml m
response 16610466

(+) = Expected Retention Time

EPH160204M.M Fri Feb 05 11:05:26 2016

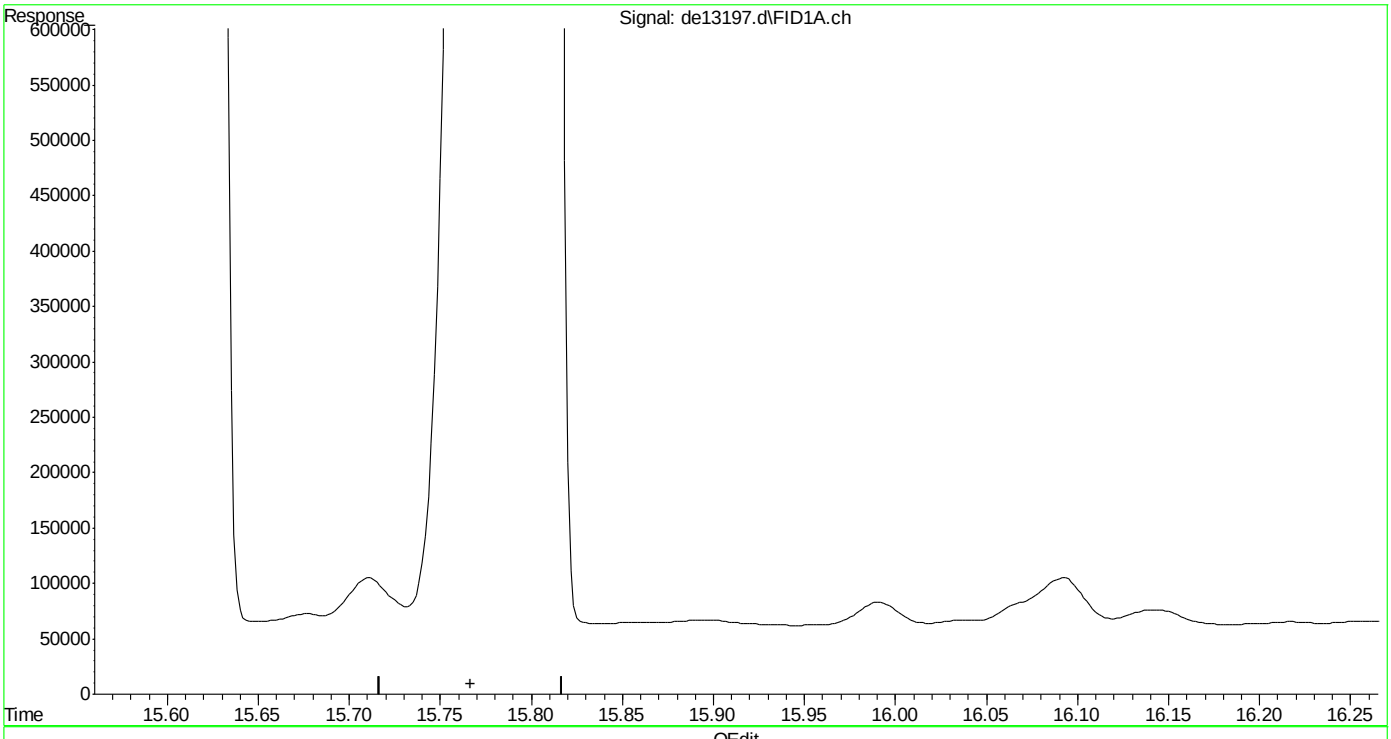
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(21) benzo(ghi)perylene
0.000min 0.000 µg/ml d
response 0

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:42 2016

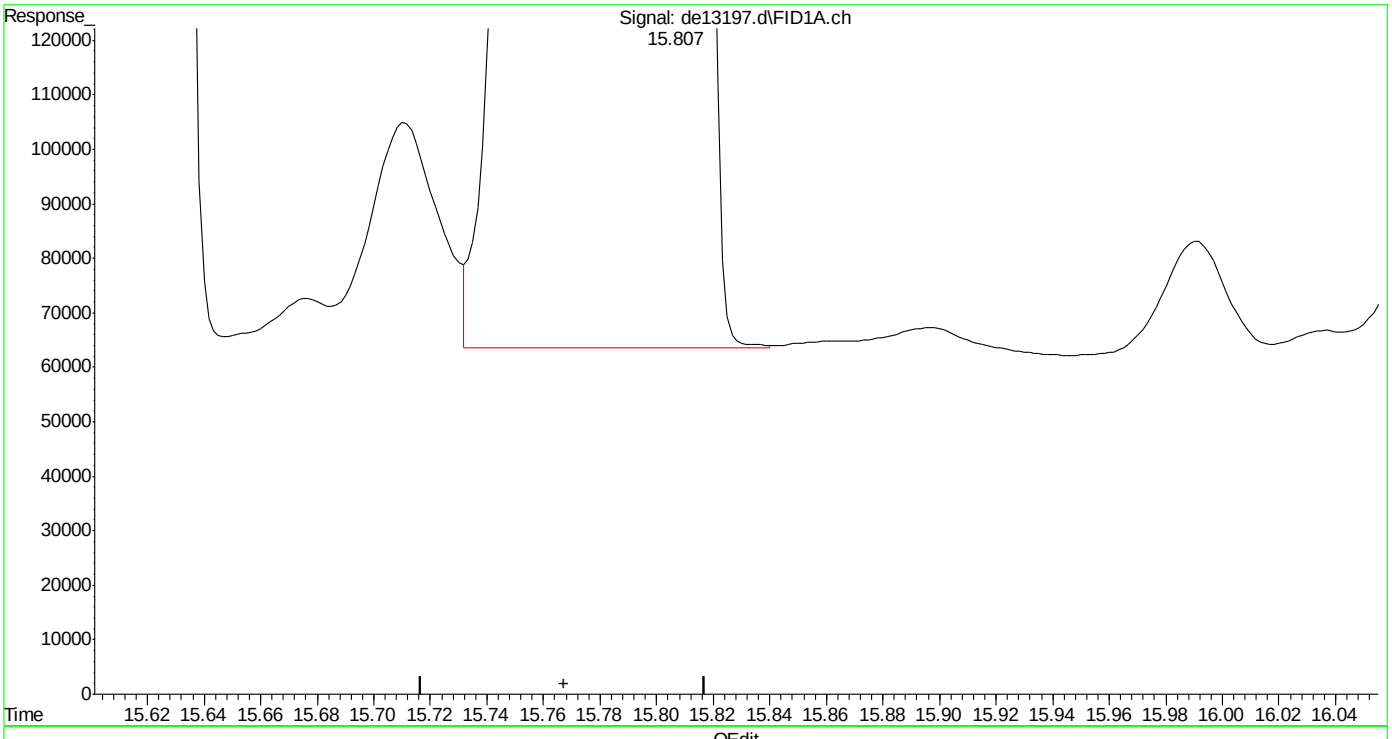
SGS ACCUTEST MC45799

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

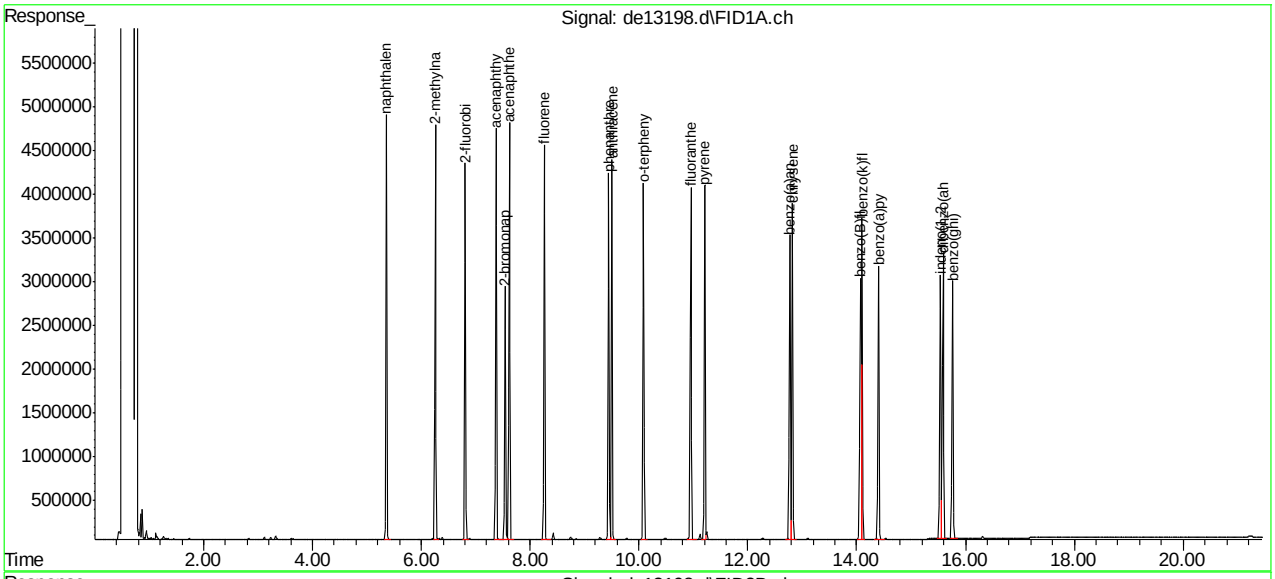
(f)=RT Delta > 1/2 Window (m)=manual int.

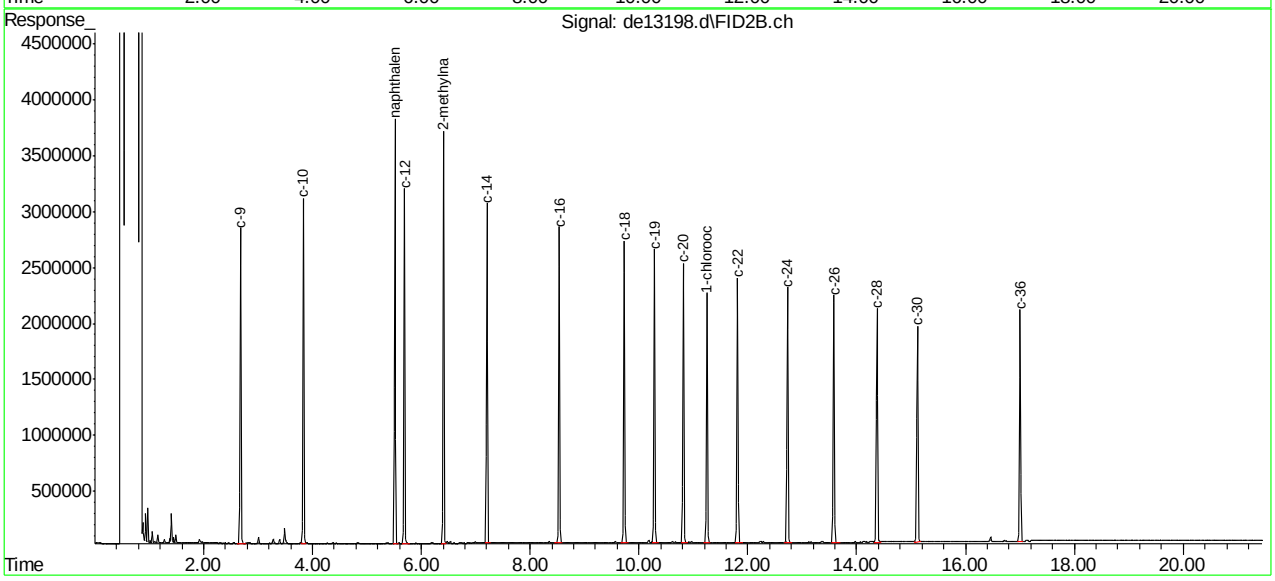
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

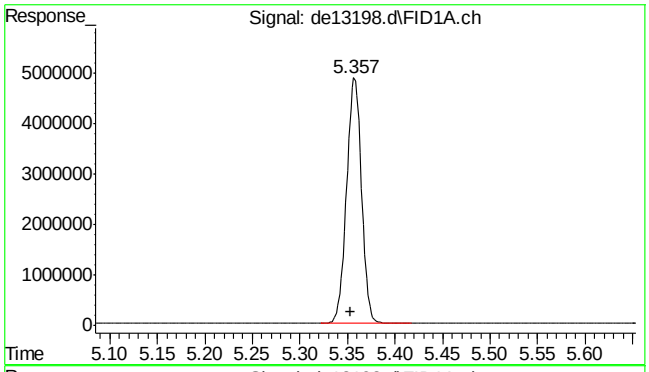
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





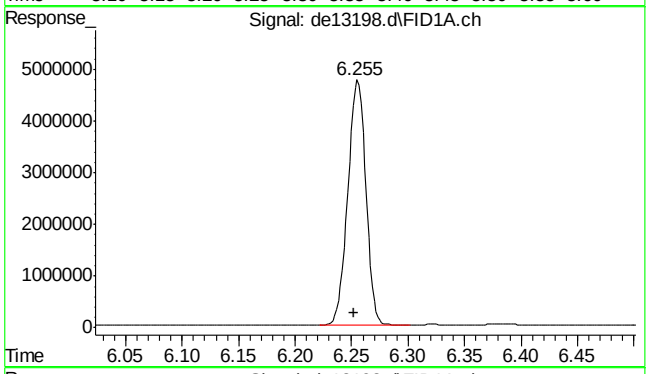
EPH160204W.M Fri Feb 05 14:30:14 2016 Page: 3

SGS ACCUTEST MC45799



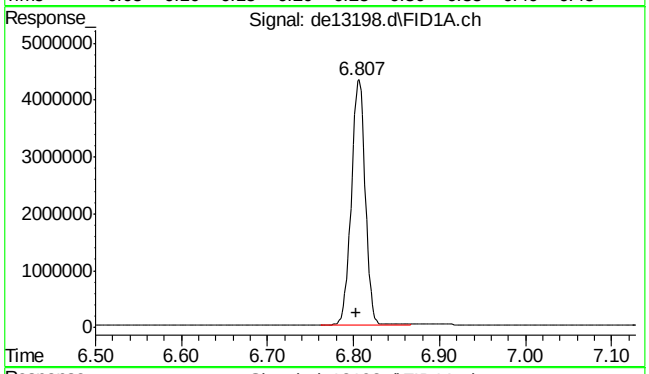
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



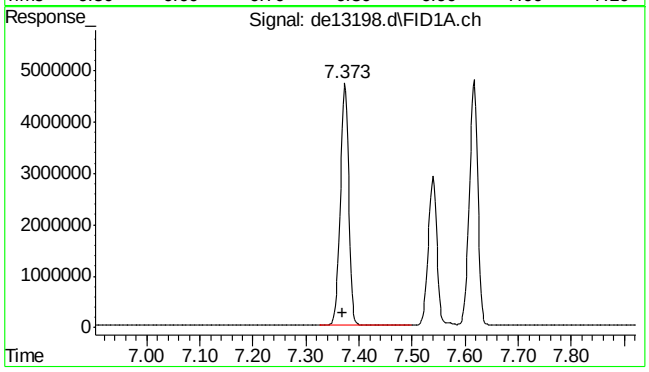
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

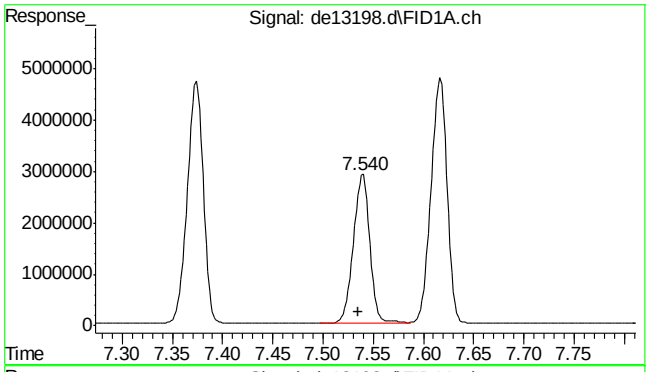
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



#5 acenaphthylene

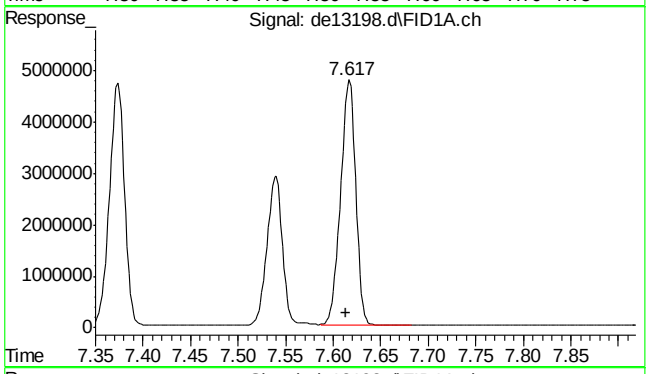
R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

SGS ACCUTEST MC45799



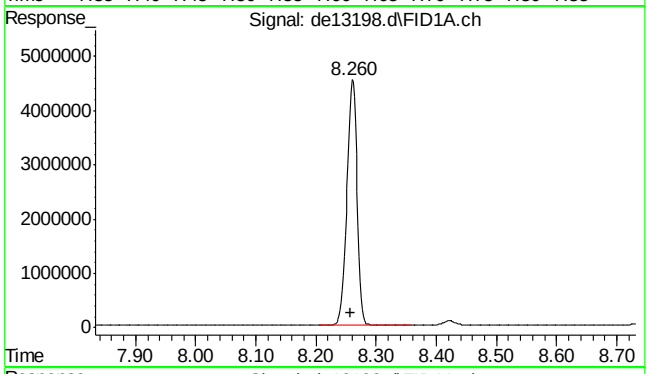
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



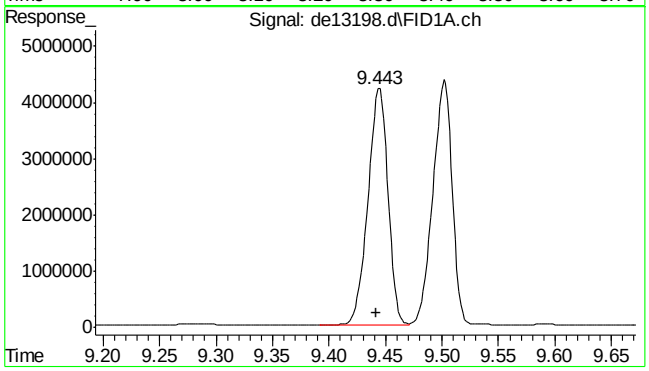
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

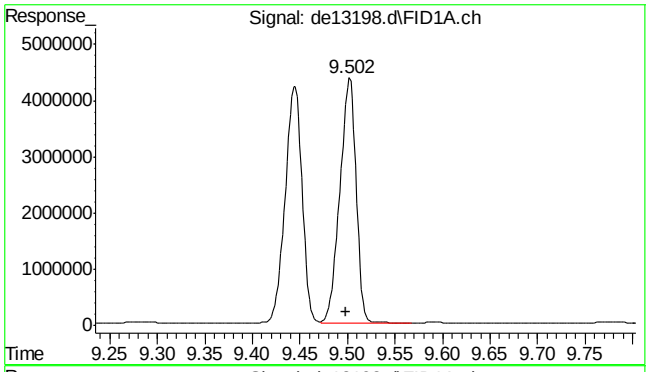
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

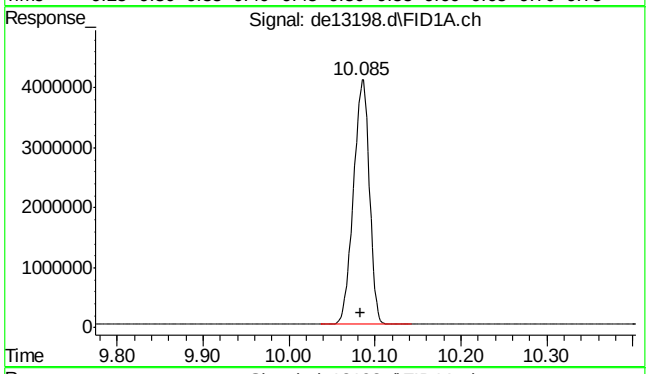
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45799



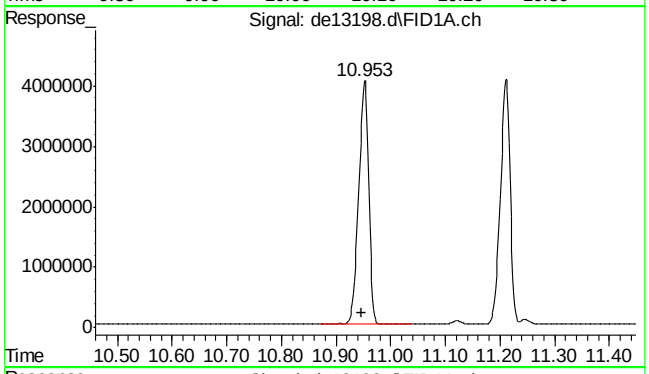
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



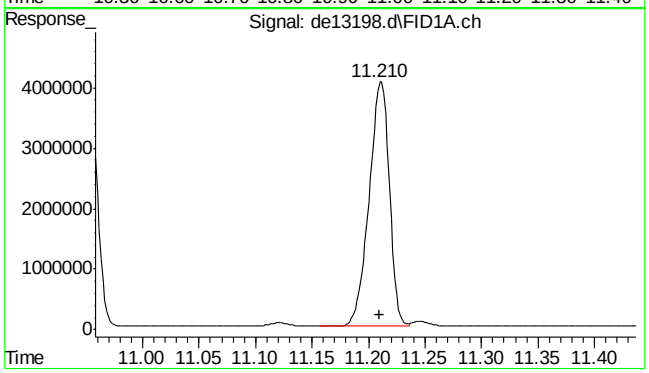
#11 o-terphenyl

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



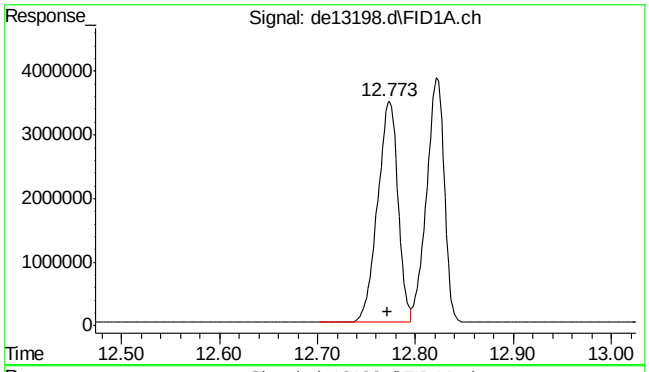
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.4.8

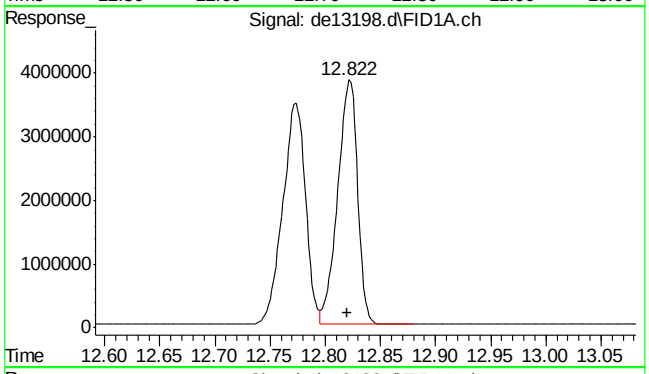
9

SGS ACCUTEST MC45799



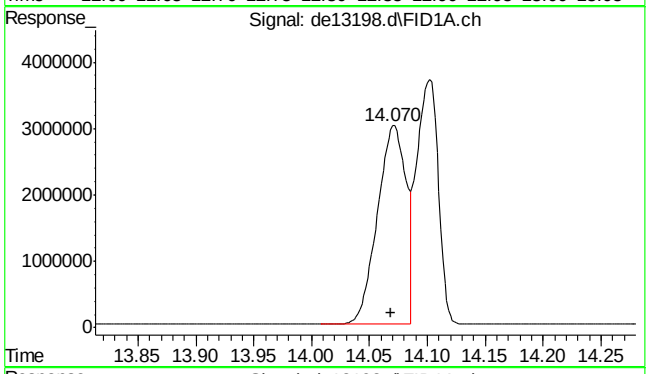
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



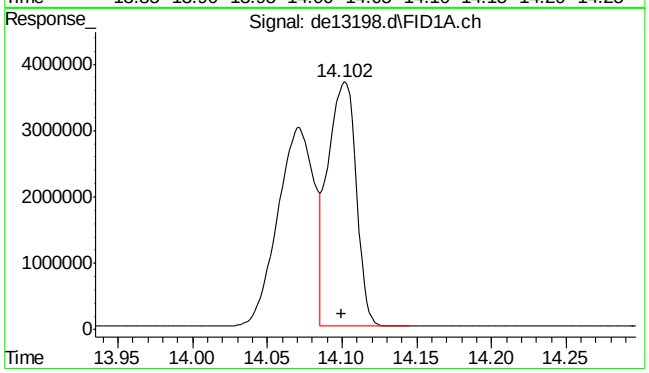
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

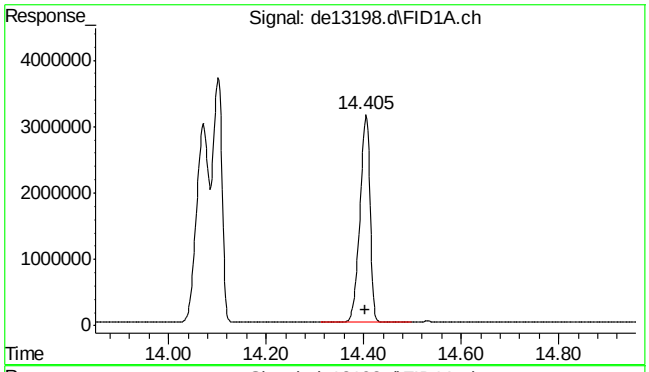
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

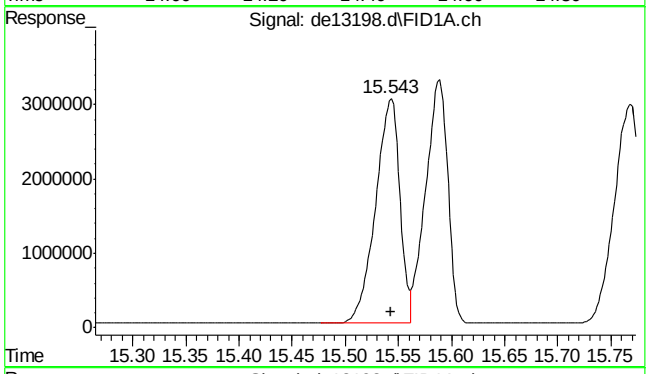
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45799



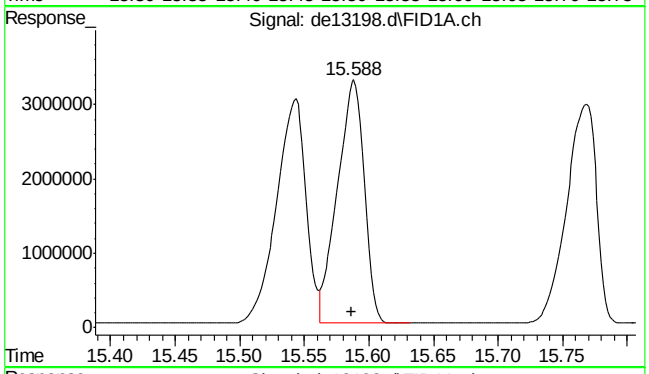
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



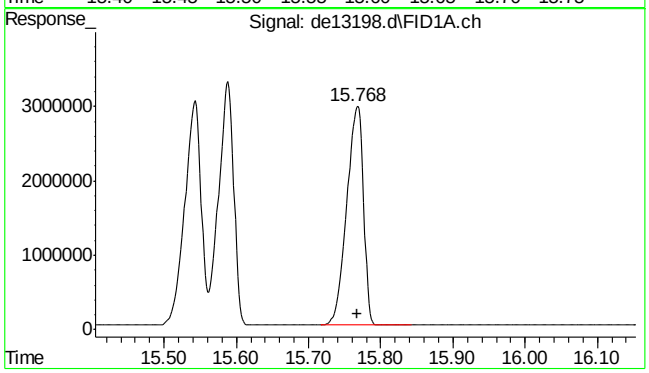
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

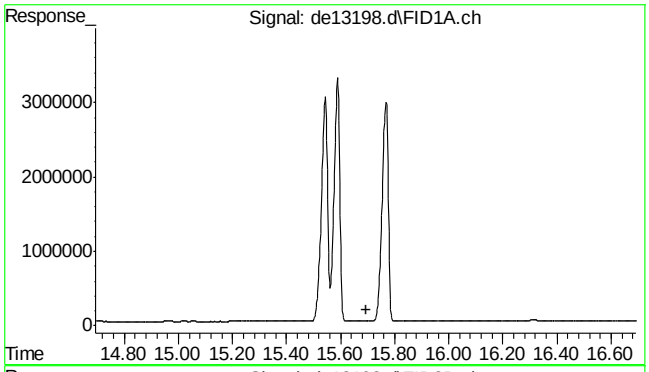
R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



#21 benzo(ghi)perylene

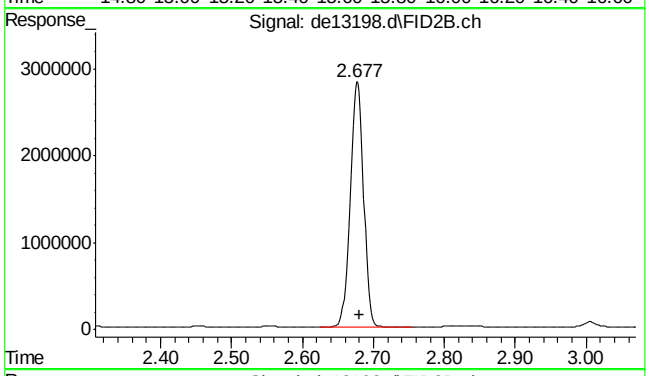
R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

SGS ACCUTEST MC45799



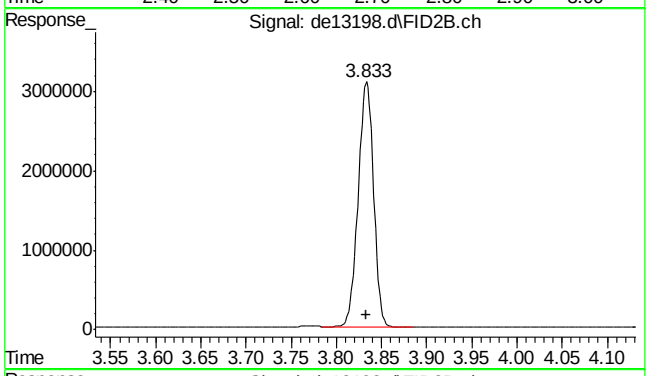
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



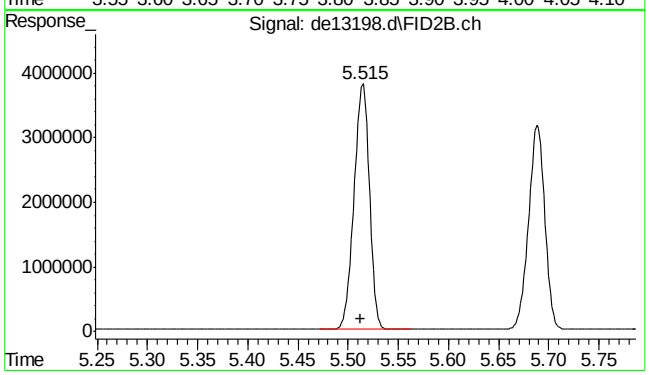
#25 c-9

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



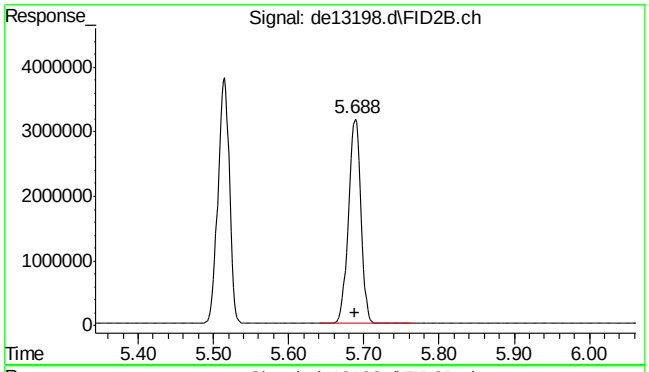
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.4.8

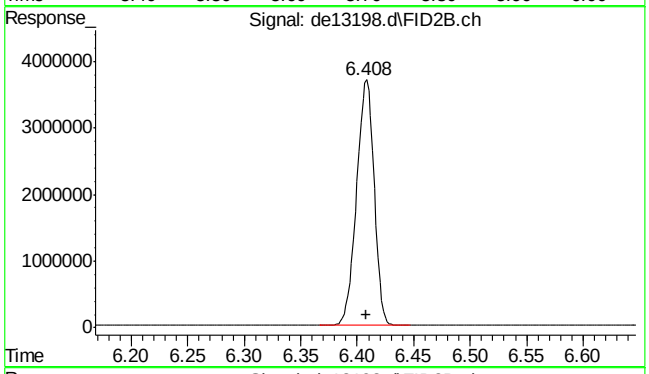
9

SGS ACCUTEST MC45799



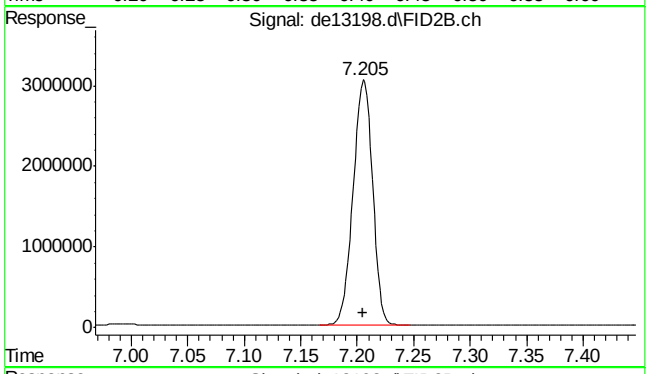
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



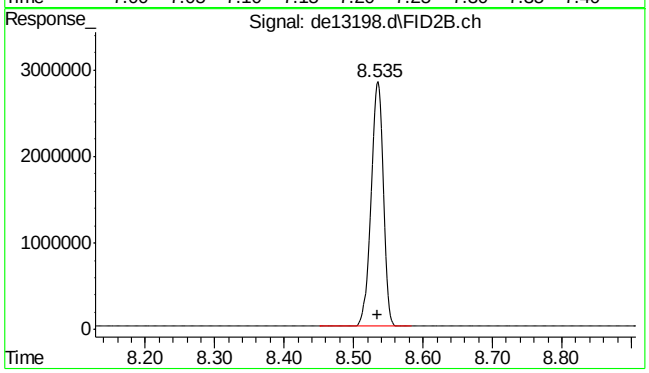
#29 2-methylnaphthalene #2

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



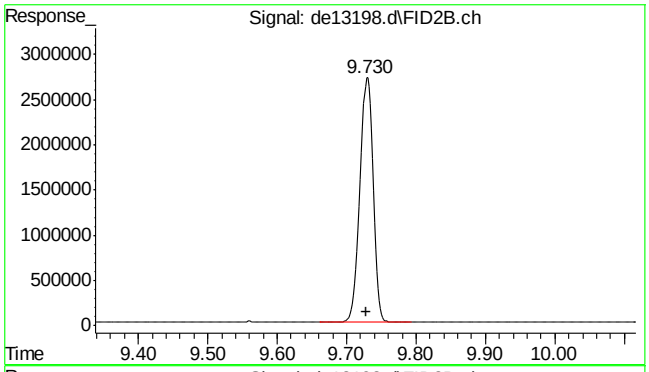
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

9.4.8

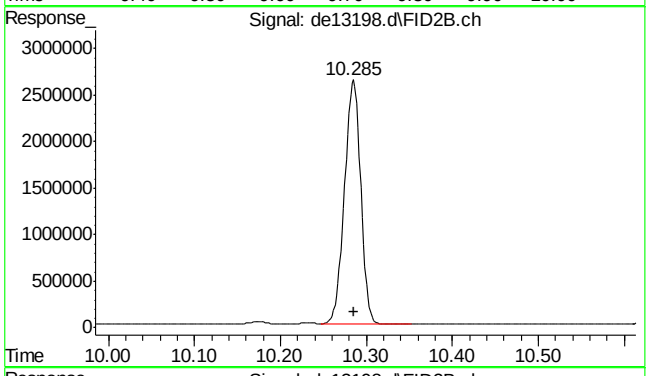
9

SGS ACCUTEST MC45799



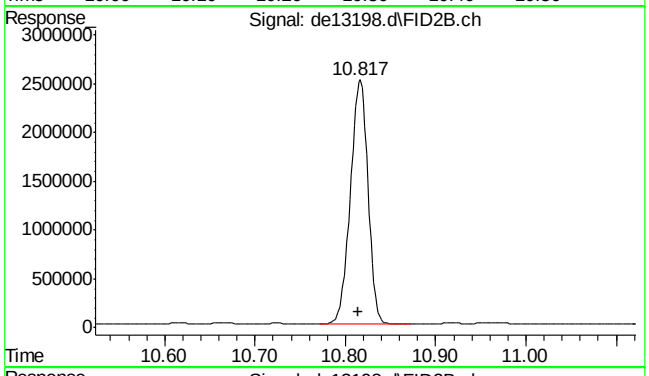
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



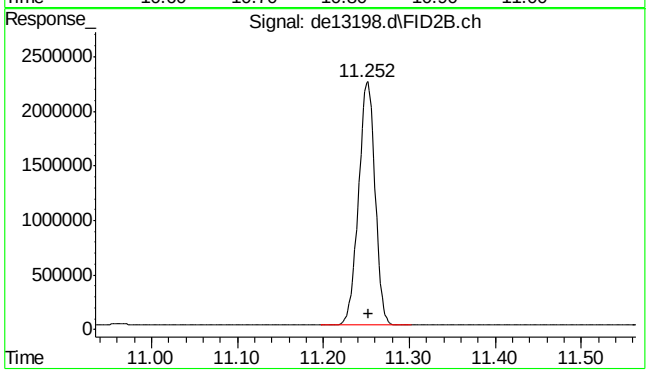
#33 c-19

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



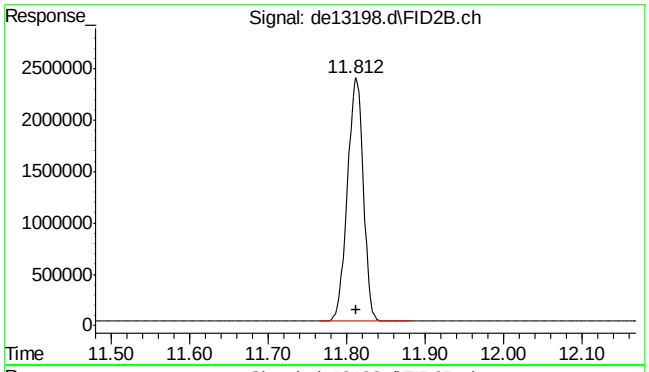
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.4.8

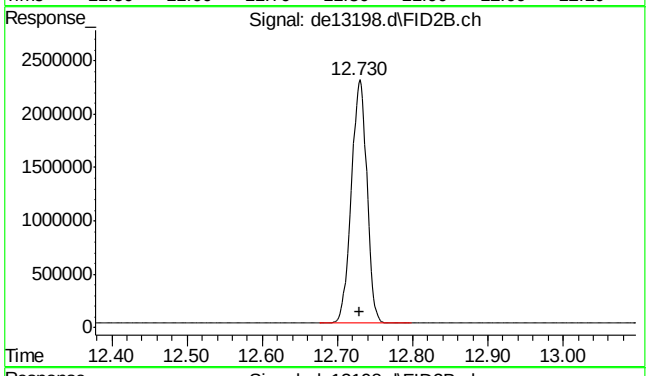
9

SGS ACCUTEST MC45799



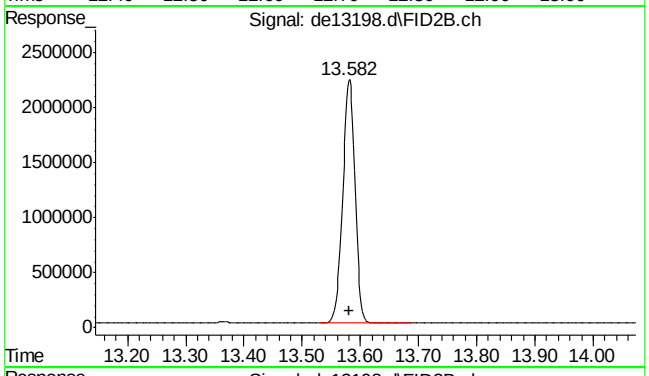
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



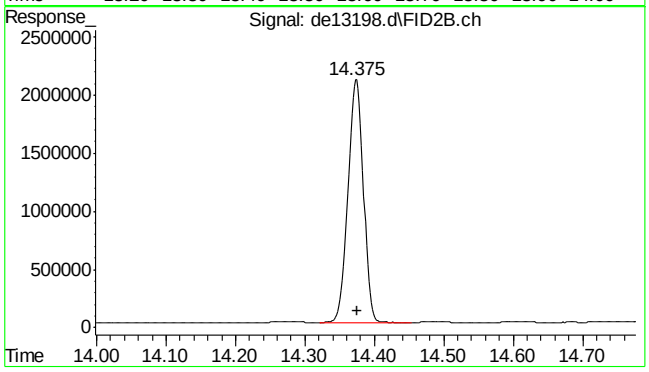
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



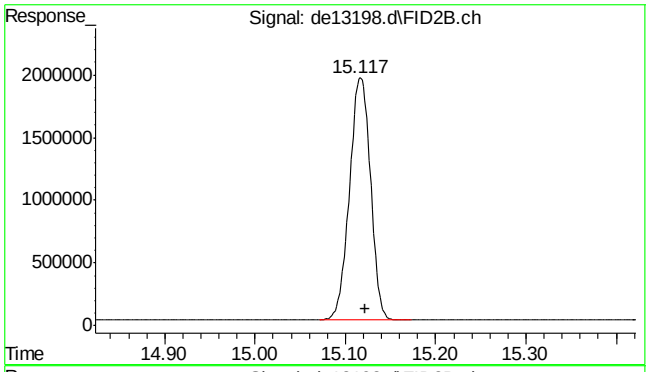
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



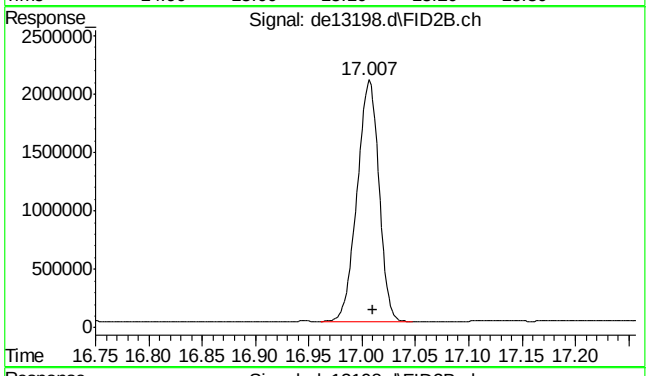
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml



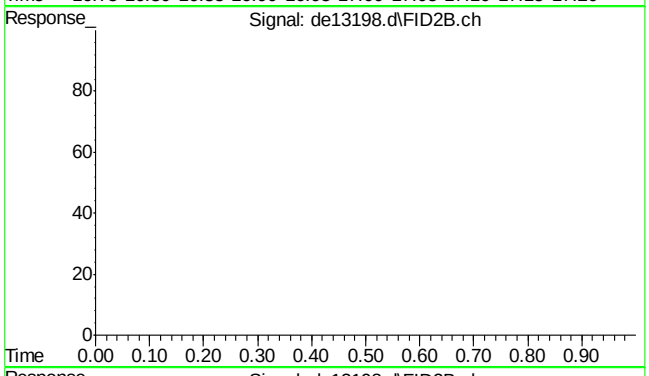
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



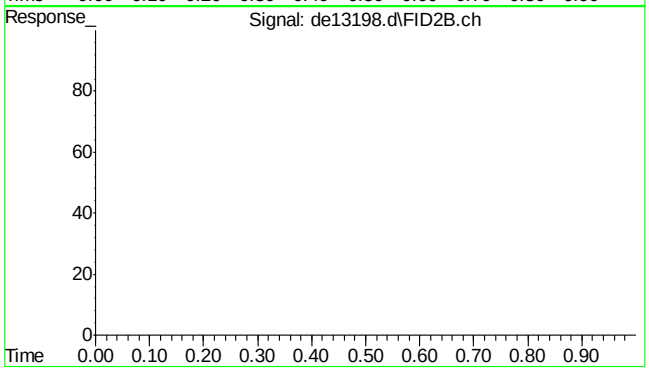
#41 c-36

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.

9.4.8

9

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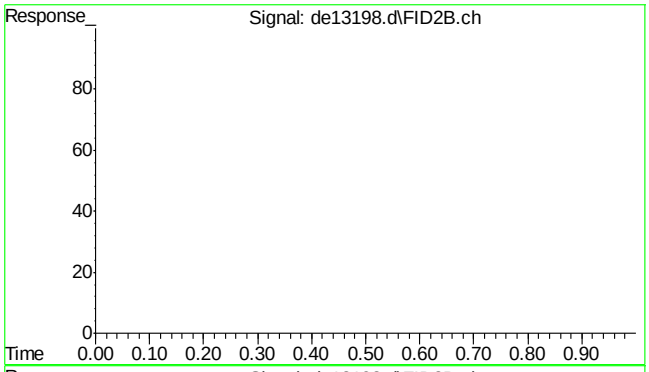
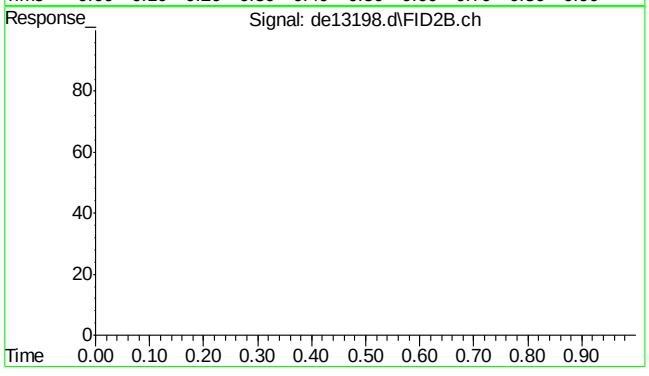


#44 bht

```
      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.
```

9.4.8

9

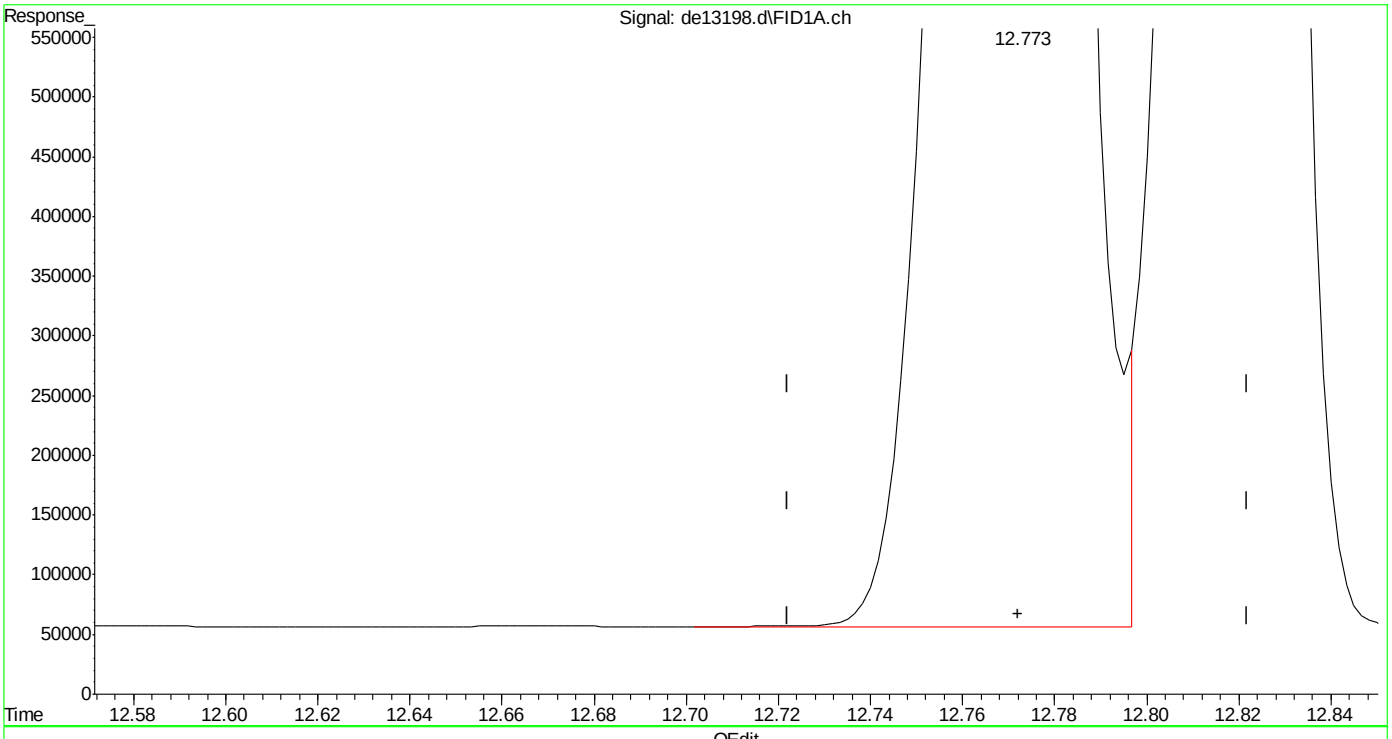
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.773min 52.075 µg/ml
response 5034310

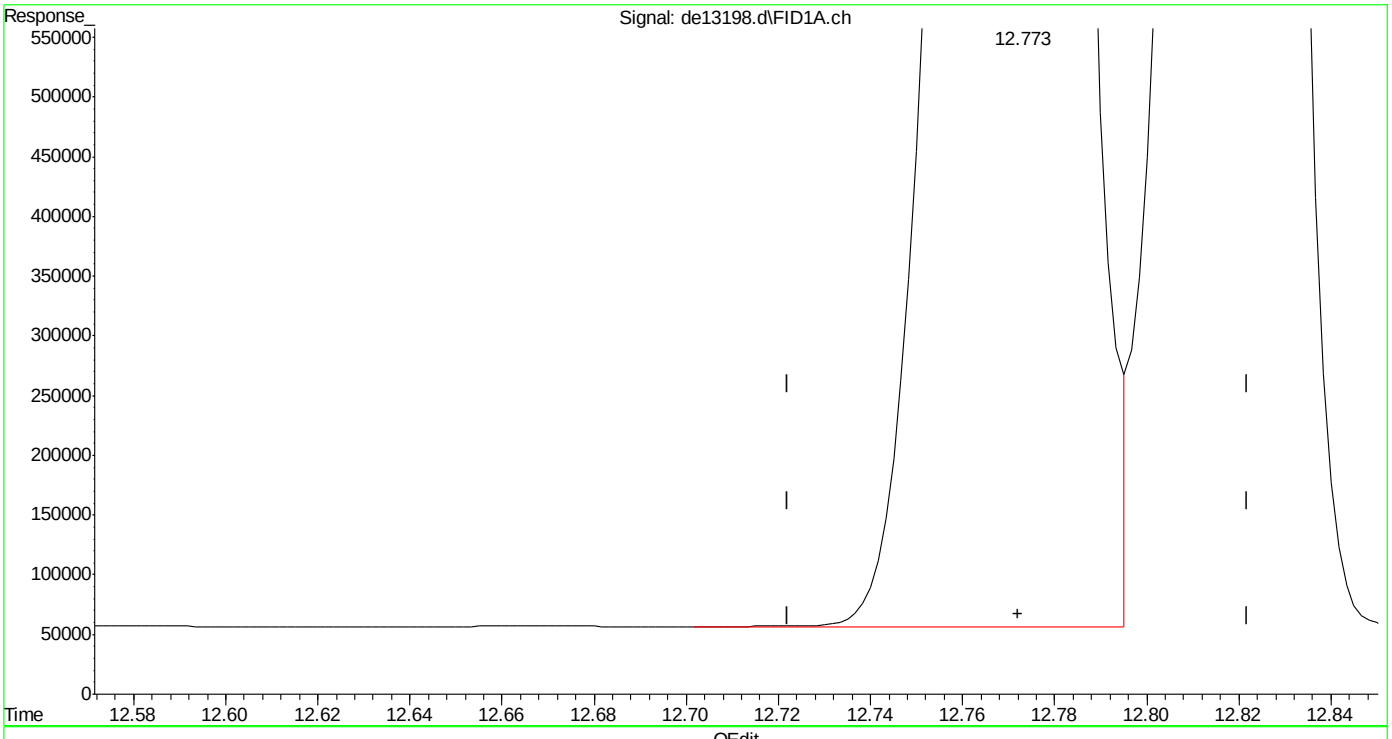
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.773min 51.829 µg/ml m
response 5010585

(+) = Expected Retention Time

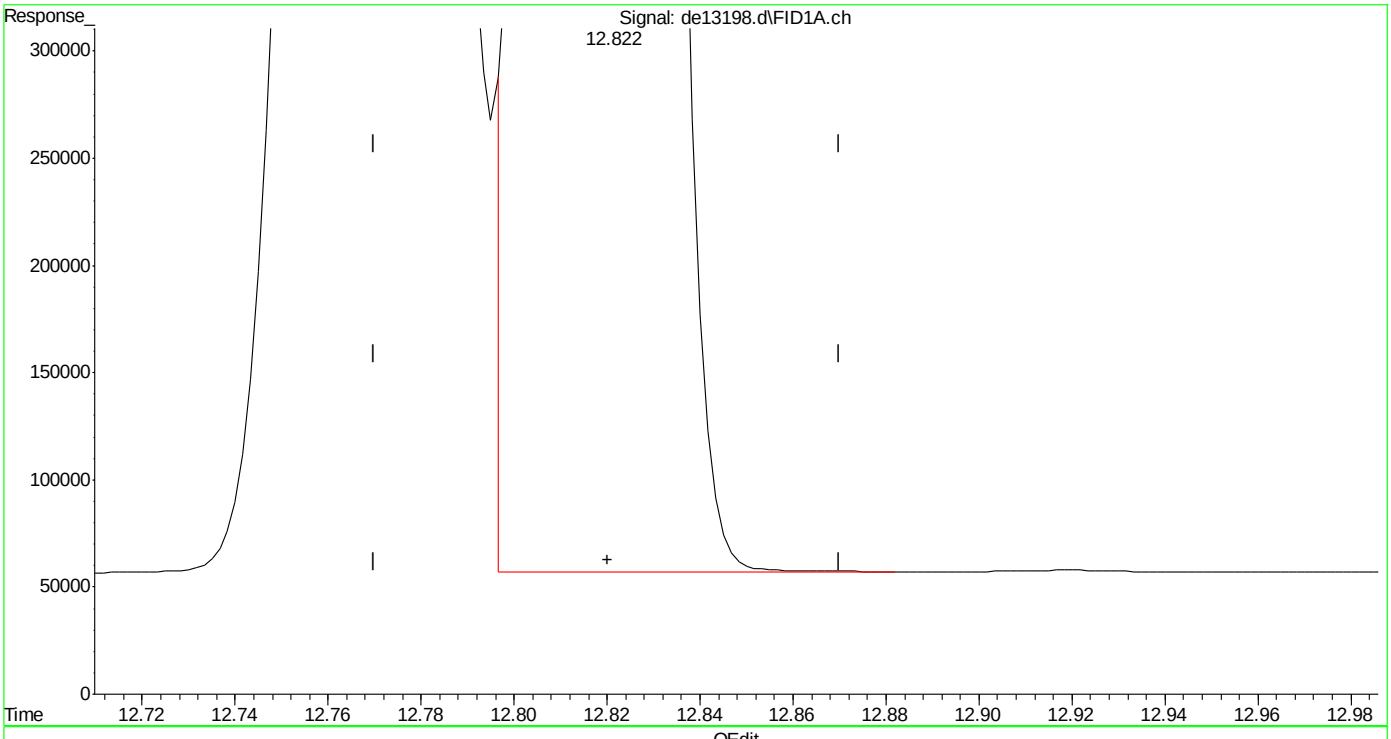
SGS ACCUTEST MC45799

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

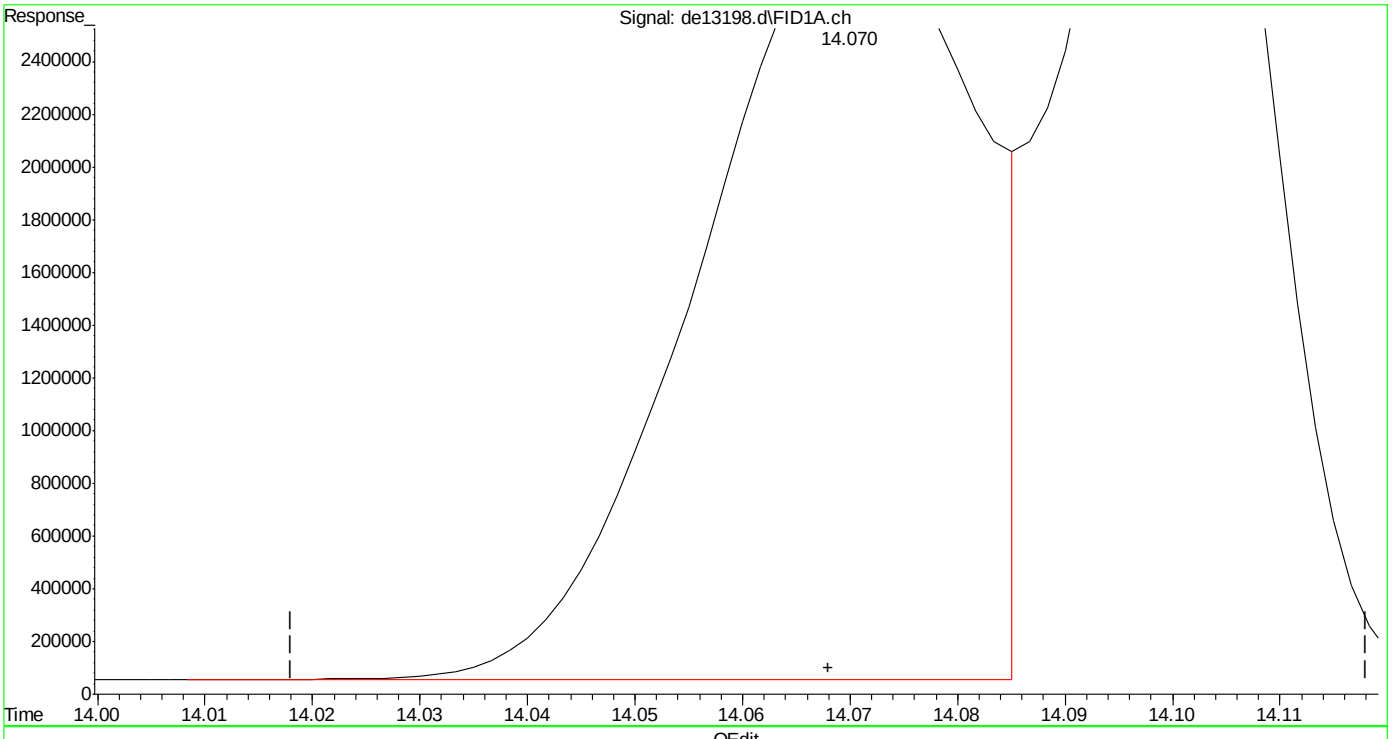
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.070min 51.778 µg/ml m
response 5126155

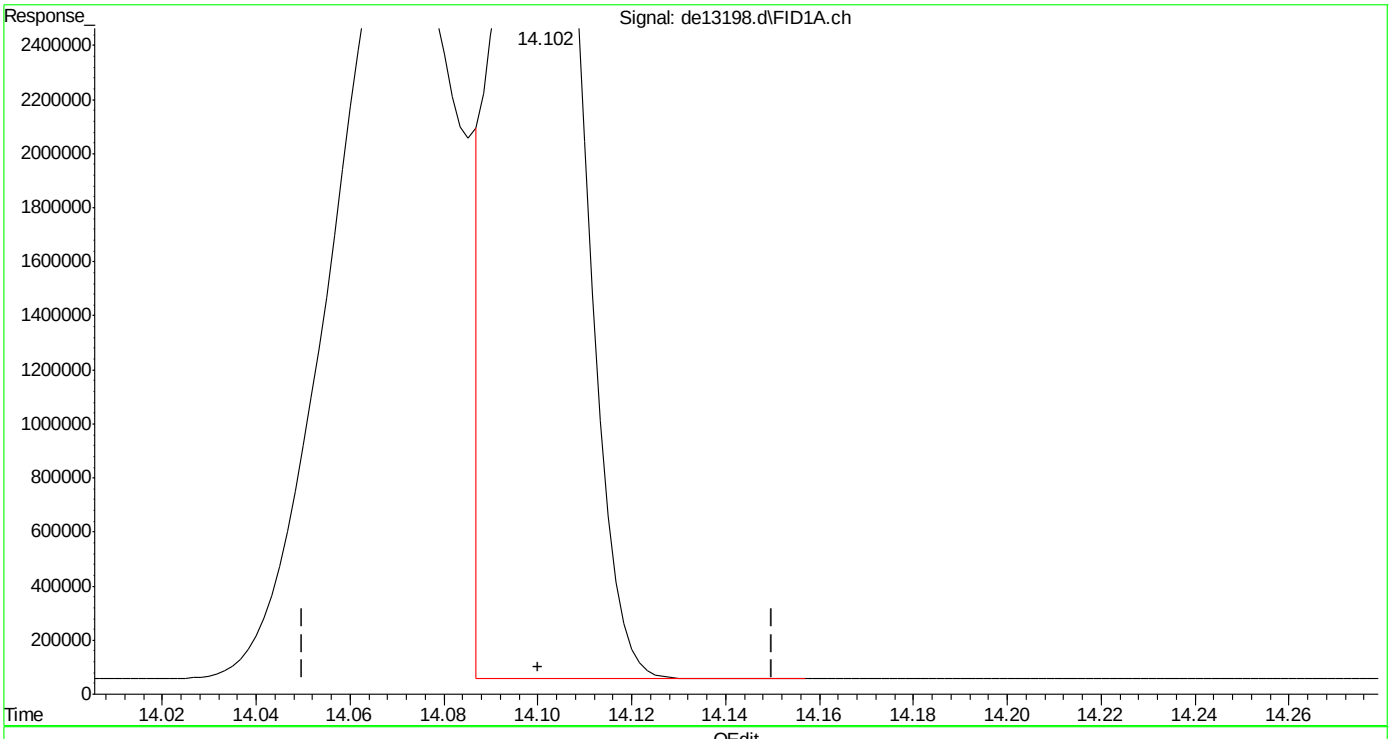
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.102min 48.745 µg/ml
response 4606556

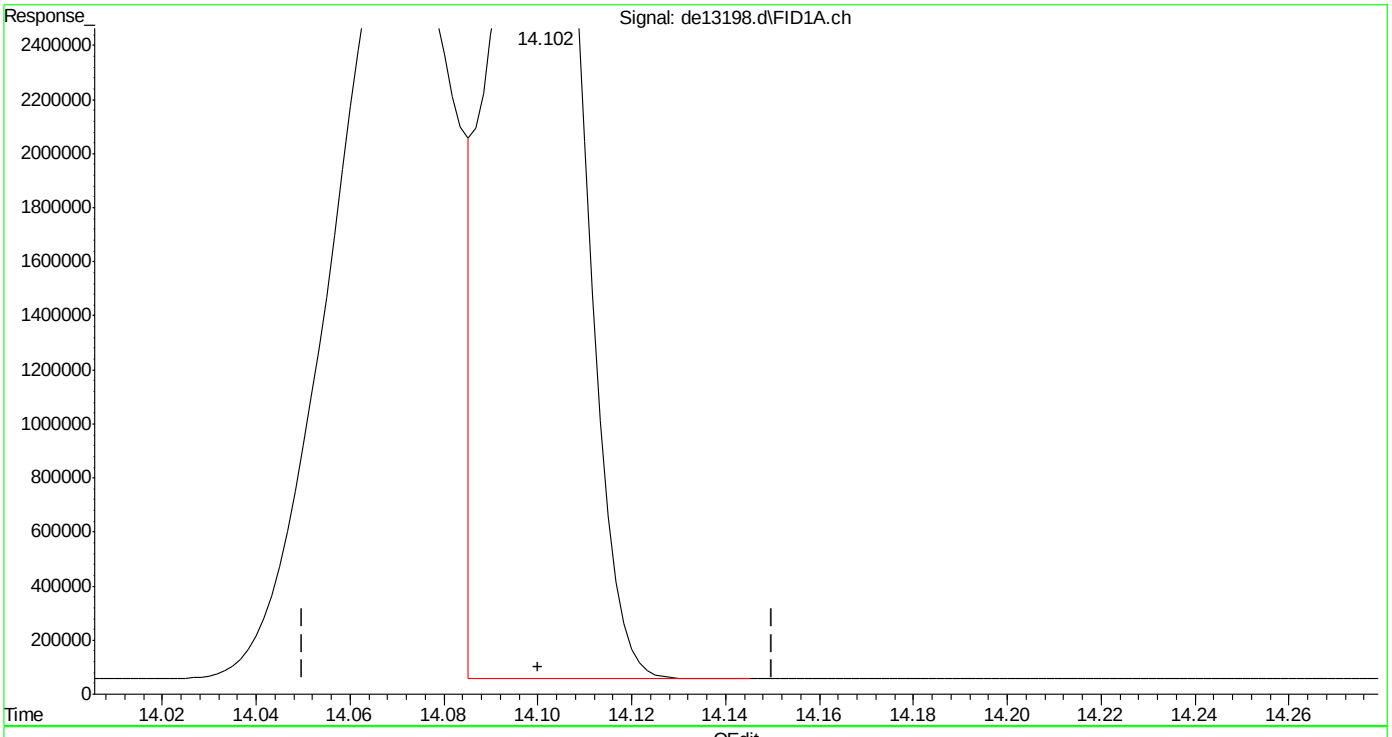
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  4 Feb 2016   7:21 pm
Operator  : thomasa
Sample    : icv735-50
Misc      : op46227,gde735,1000,,,2,,w
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene

14.102min 50.882 µg/ml m

response 4808431

(+) = Expected Retention Time

EPH160204W.M Fri Feb 05 11:47:06 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/13/16 16:24

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.602	4127974	44.757 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 223.79%#		
6) s 2-bromonaphthalene	7.328	2788855	44.440 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 222.20%#		
11) s o-terphenyl	9.868	4618553	45.091 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 225.46%#		
35) s 1-chlorooctadecane	11.227	2905486	51.356 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 256.78%#		
Target Compounds			
2) naphthalene	5.148	4572730	44.335 µg/ml
3) 2-methylnaphthalene	6.048	4527207	44.176 µg/ml
5) acenaphthylene	7.162	4521850	44.948 µg/ml
7) acenaphthene	7.403	4728324	45.739 µg/ml
8) fluorene	8.047	4596749	45.258 µg/ml
9) phenanthrene	9.228	4603878	45.241 µg/ml
10) anthracene	9.285	4418002	45.543 µg/ml
12) fluoranthene	10.732	4563290	45.660 µg/ml
13) pyrene	10.988	4689939	46.223 µg/ml
14) benzo(a)anthracene	12.553	4525398	46.810 µg/mlm
15) chrysene	12.600	4517264	46.407 µg/mlm
16) benzo(B)fluoranthene	13.852	5001142	50.515 µg/ml
17) benzo(k)fluoranthene	13.882	4284001	45.332 µg/ml
18) benzo(a)pyrene	14.185	4454608	48.192 µg/ml
19) indeno(1,2,3-cd)pyrene	15.328	4690803	49.555 µg/mlm
20) dibenzo(ah)anthracene	15.370	4451460	48.704 µg/mlm
21) benzo(ghi)perylene	15.550	4508035	48.935 µg/ml
25) h c-9	2.648	3688554	49.932 µg/mlm
26) h c-10	3.815	3746266	50.713 µg/ml
27) naphthalene #2	5.490	4004746	50.139 µg/ml
28) c-12	5.667	3735799	50.571 µg/ml
29) 2-methylnaphthalene #2	6.383	4009432	49.766 µg/ml
30) c-14	7.183	3720779	50.368 µg/ml
31) c-16	8.512	3698194	50.062 µg/ml
32) c-18	9.707	3712676	50.258 µg/ml
33) c-19	10.262	3682077	55.116 µg/ml
34) c-20	10.793	3612042	54.067 µg/ml
36) c-22	11.788	3597064	53.843 µg/ml
37) c-24	12.705	3370773	50.456 µg/ml
38) c-26	13.557	3589073	53.723 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	3474544	52.009 µg/ml
40) h	c-30	15.098	3471473	51.963 µg/ml
41) h	c-36	17.008	3096897	46.356 µg/mlm

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

9.4.9

9

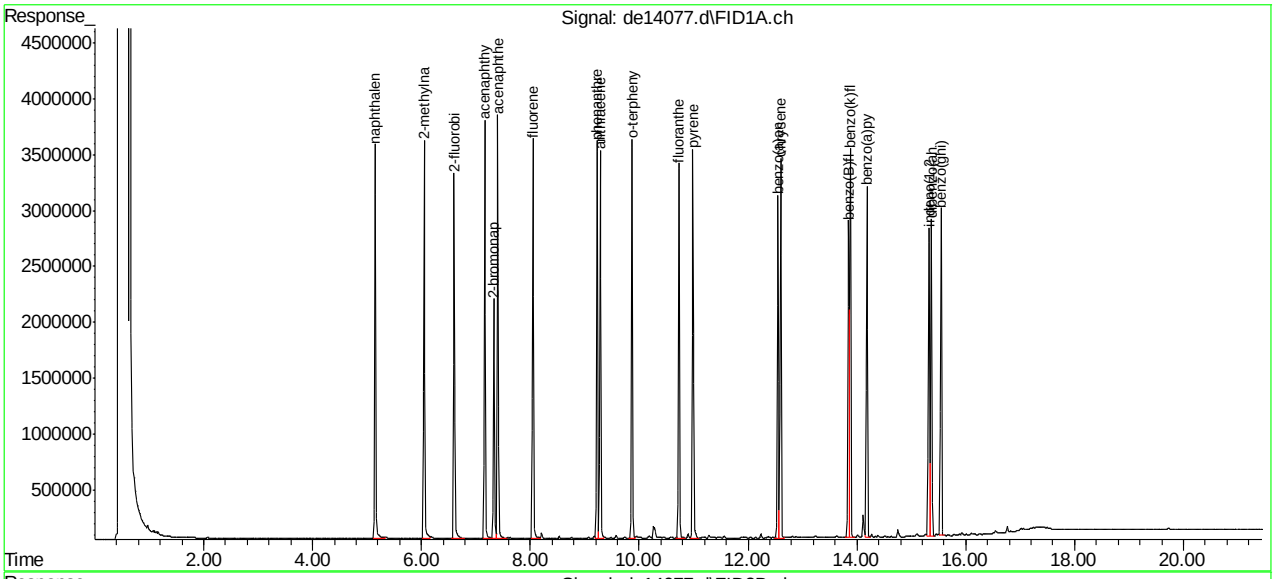
SGS ACCUTEST MC45799

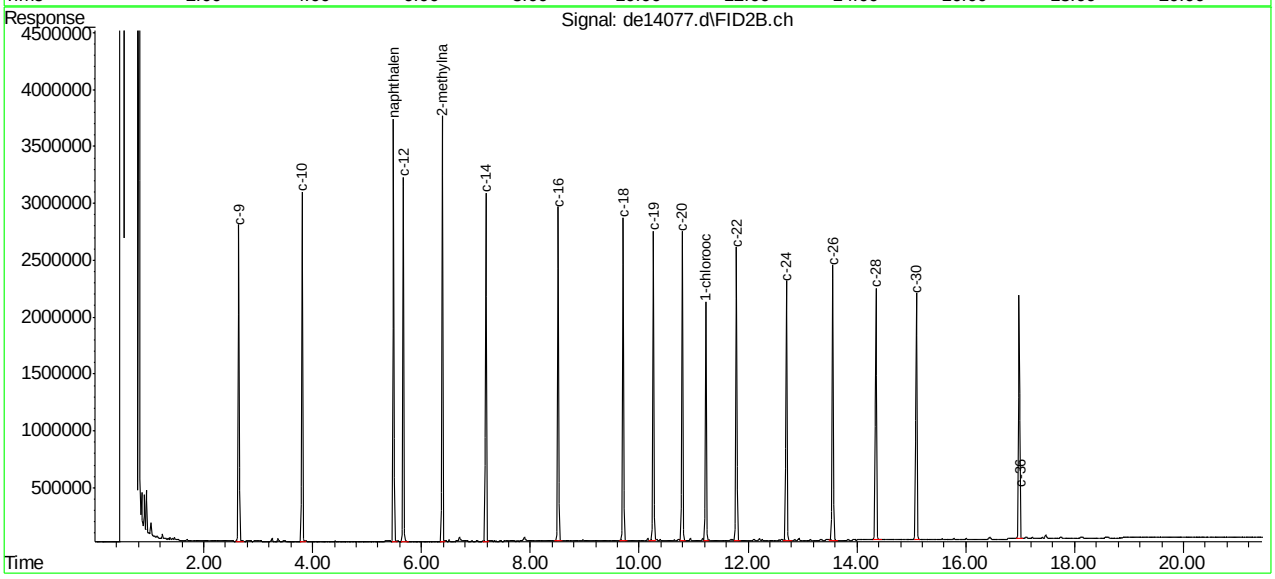
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:09:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

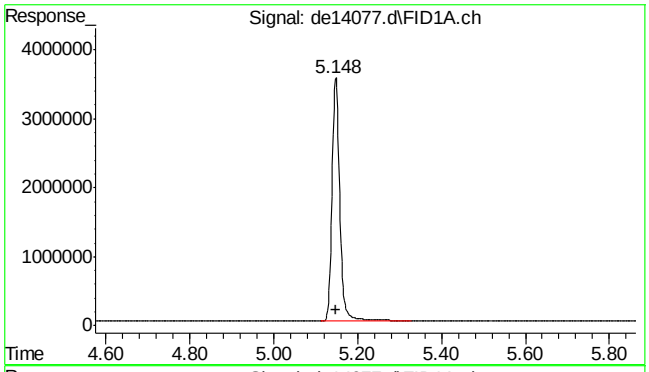
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :





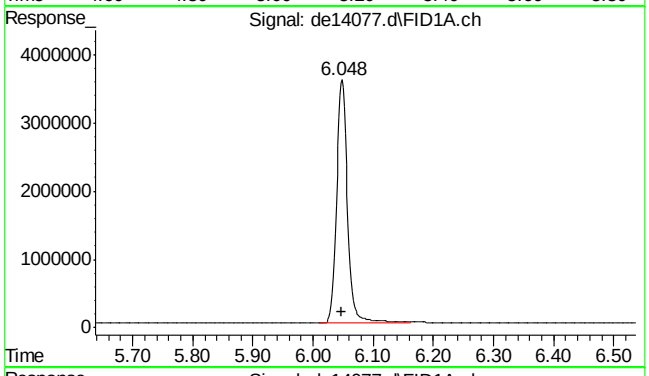
EPH160513W.M Fri May 13 14:49:07 2016 Page: 3

SGS ACCUTEST MC45799



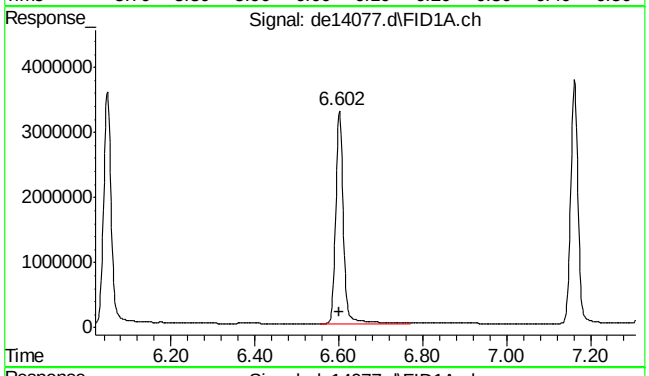
#2 naphthalene

R.T.: 5.148 min
Delta R.T.: 0.000 min
Response: 4572730
Conc: 44.34 µg/ml



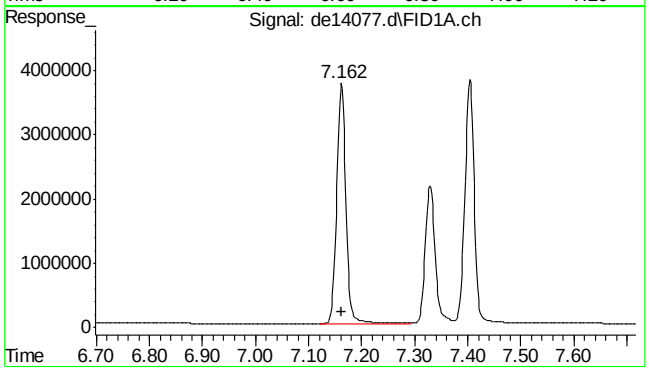
#3 2-methylnaphthalene

R.T.: 6.048 min
Delta R.T.: 0.000 min
Response: 4527207
Conc: 44.18 µg/ml



#4 2-fluorobiphenyl

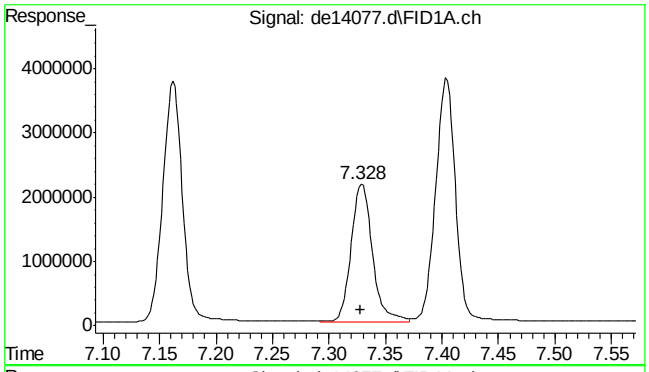
R.T.: 6.602 min
Delta R.T.: 0.000 min
Response: 4127974
Conc: 44.76 µg/ml



#5 acenaphthylene

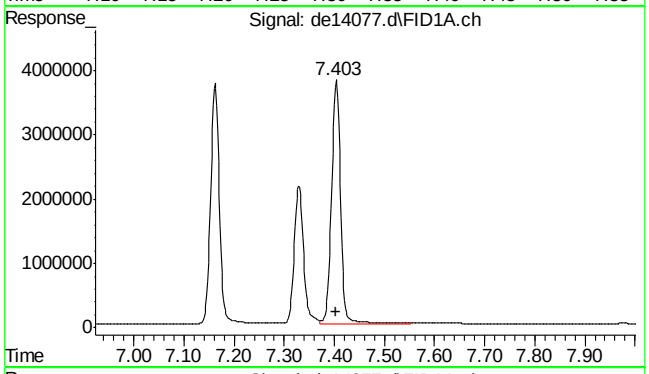
R.T.: 7.162 min
Delta R.T.: 0.000 min
Response: 4521850
Conc: 44.95 µg/ml

SGS ACCUTEST MC45799



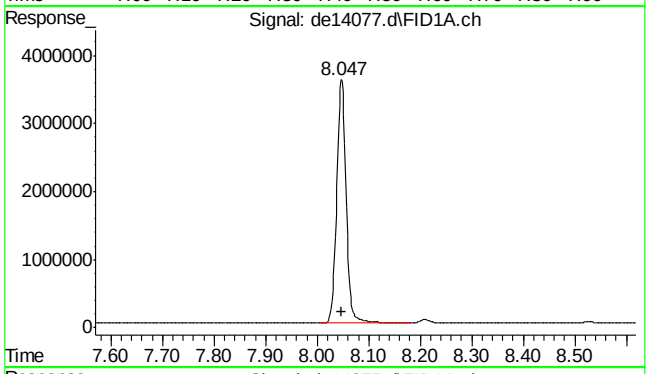
#6 2-bromonaphthalene

R.T.: 7.328 min
Delta R.T.: 0.000 min
Response: 2788855
Conc: 44.44 µg/ml



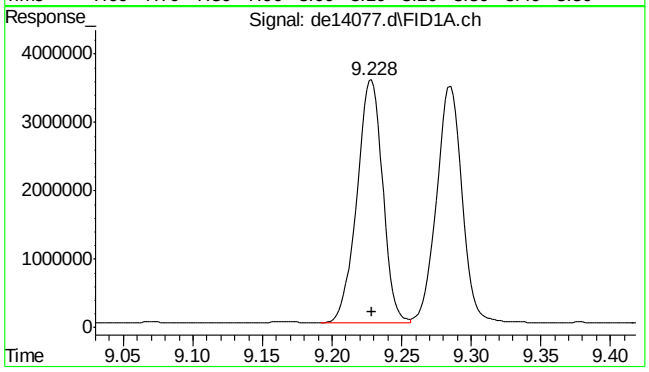
#7 acenaphthene

R.T.: 7.403 min
Delta R.T.: 0.000 min
Response: 4728324
Conc: 45.74 µg/ml



#8 fluorene

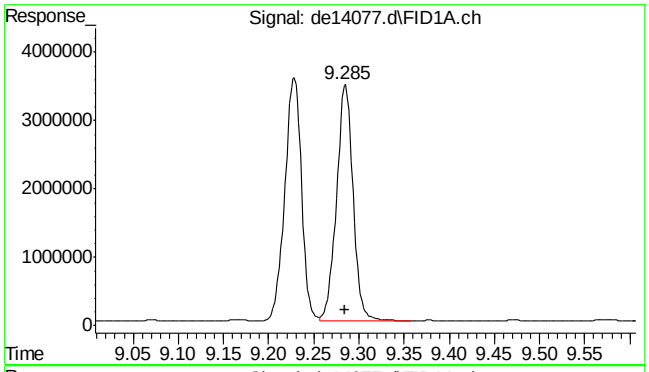
R.T.: 8.047 min
Delta R.T.: 0.000 min
Response: 4596749
Conc: 45.26 µg/ml



#9 phenanthrene

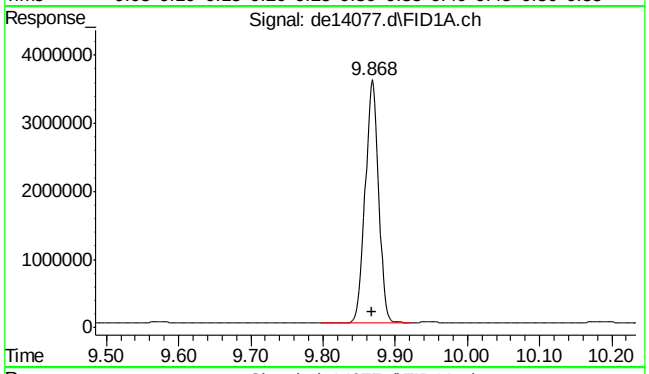
R.T.: 9.228 min
Delta R.T.: 0.000 min
Response: 4603878
Conc: 45.24 µg/ml

SGS ACCUTEST MC45799



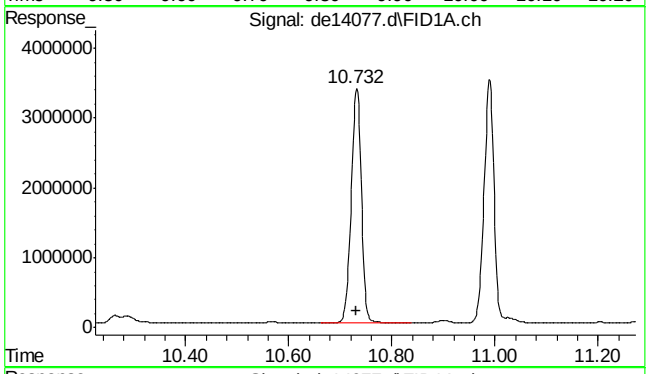
#10 anthracene

R.T.: 9.285 min
Delta R.T.: 0.000 min
Response: 4418002
Conc: 45.54 µg/ml



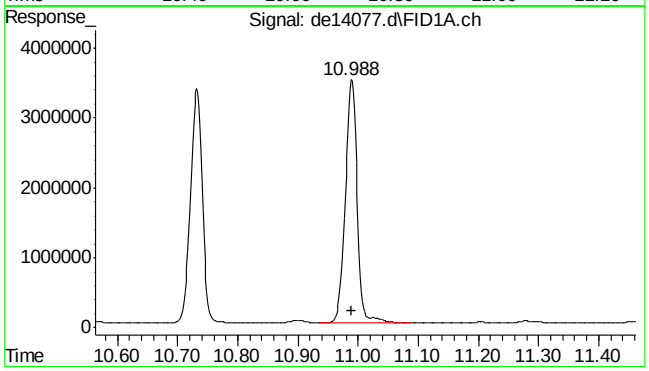
#11 o-terphenyl

R.T.: 9.868 min
Delta R.T.: 0.000 min
Response: 4618553
Conc: 45.09 µg/ml



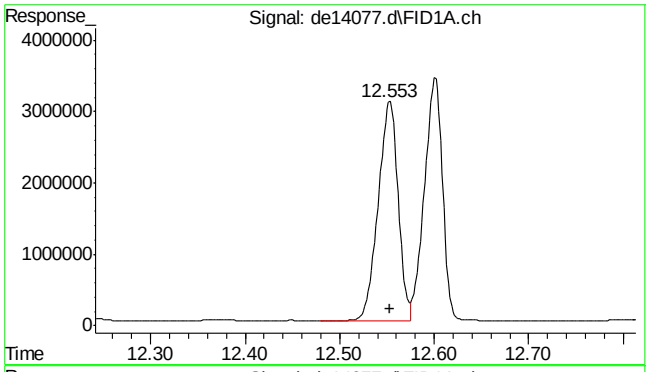
#12 fluoranthene

R.T.: 10.732 min
Delta R.T.: 0.000 min
Response: 4563290
Conc: 45.66 µg/ml



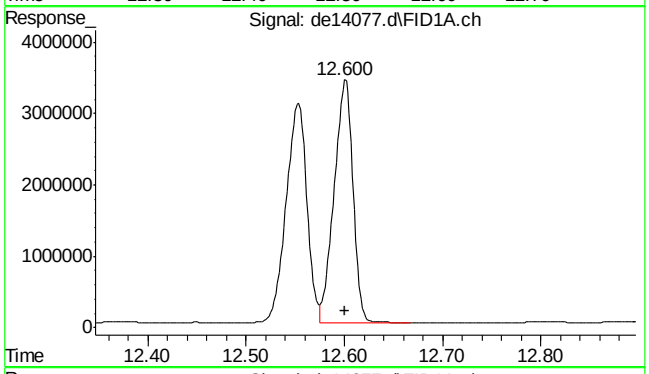
#13 pyrene

R.T.: 10.988 min
Delta R.T.: 0.000 min
Response: 4689939
Conc: 46.22 µg/ml



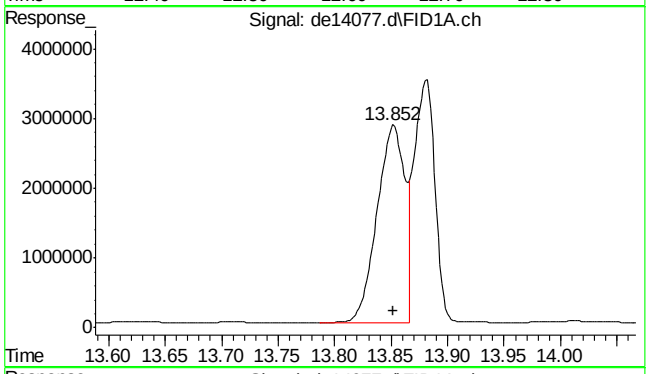
#14 benzo(a)anthracene

R.T.: 12.553 min
Delta R.T.: 0.000 min
Response: 4525398
Conc: 46.81 µg/ml m



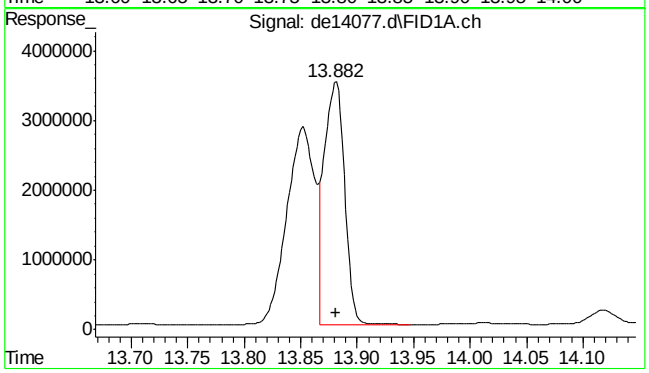
#15 chrysene

R.T.: 12.600 min
Delta R.T.: 0.000 min
Response: 4517264
Conc: 46.41 µg/ml m



#16 benzo(B)fluoranthene

R.T.: 13.852 min
Delta R.T.: 0.000 min
Response: 5001142
Conc: 50.52 µg/ml



#17 benzo(k)fluoranthene

R.T.: 13.882 min
Delta R.T.: 0.000 min
Response: 4284001
Conc: 45.33 µg/ml

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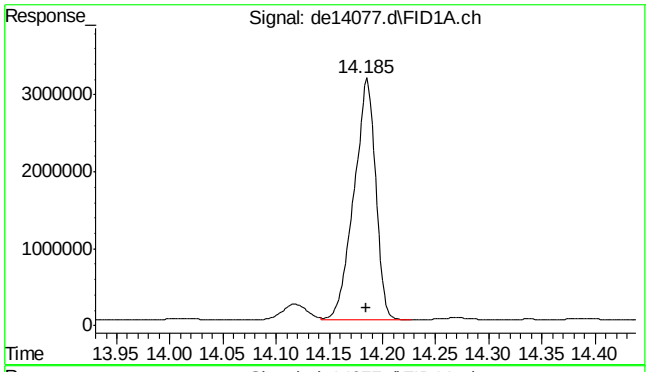
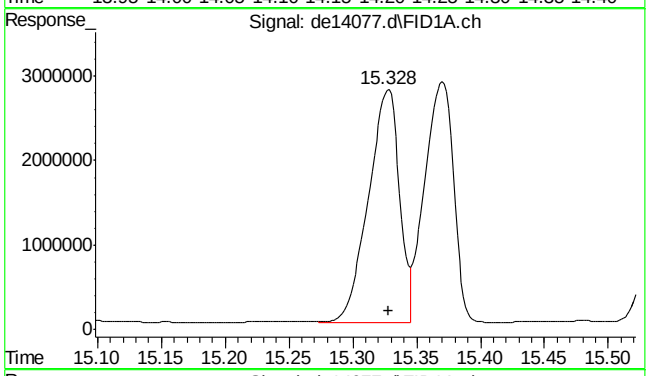


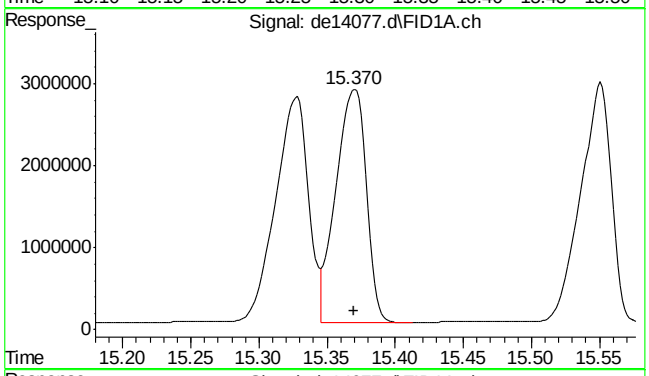
#18 benzo(a)pyrene

R.T.: 14.185 min
Delta R.T.: 0.000 min
Response: 4454608
Conc: 48.19 µg/ml



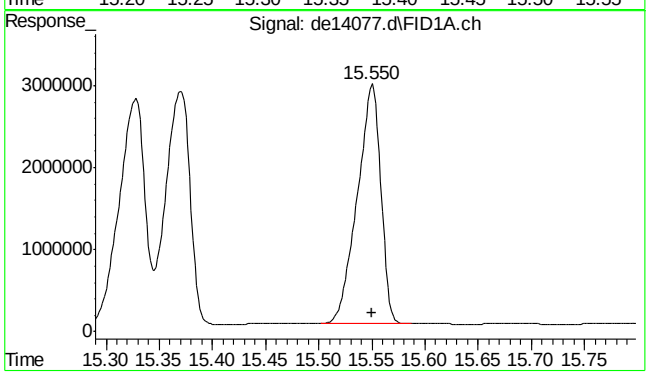
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.328 min
Delta R.T.: 0.000 min
Response: 4690803
Conc: 49.56 µg/ml m



#20 dibenzo(ah)anthracene

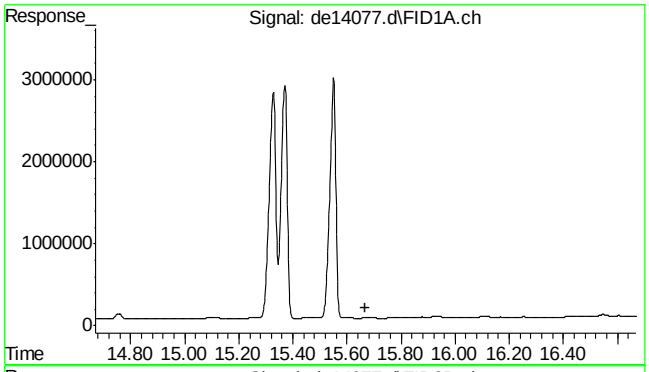
R.T.: 15.370 min
Delta R.T.: 0.000 min
Response: 4451460
Conc: 48.70 µg/ml m



#21 benzo(ghi)perylene

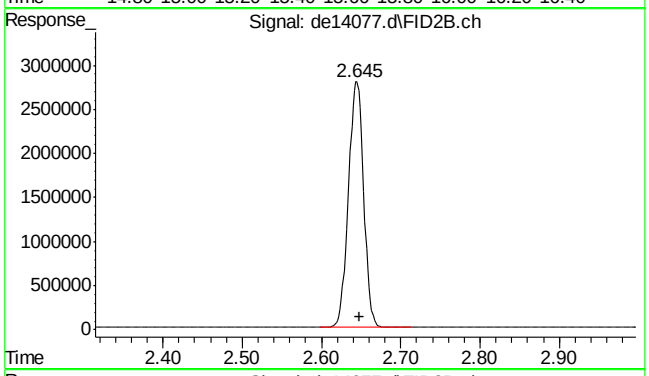
R.T.: 15.550 min
Delta R.T.: 0.000 min
Response: 4508035
Conc: 48.93 µg/ml

SGS ACCUTEST MC45799



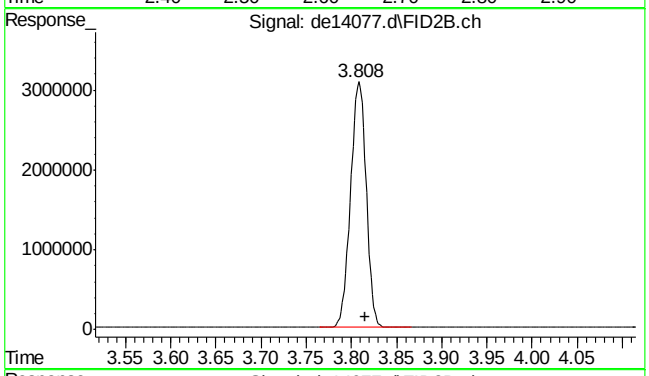
#22 bht

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



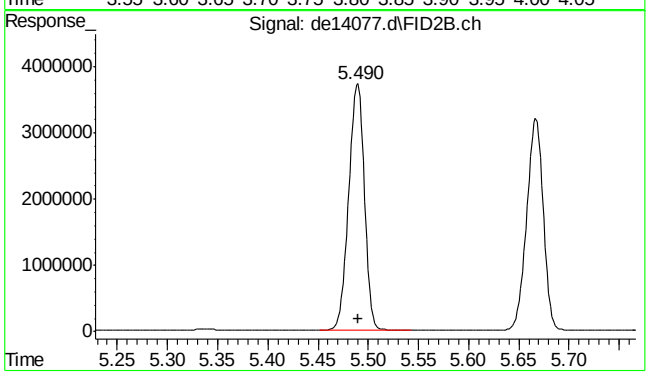
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3688554
Conc: 49.93 µg/ml m



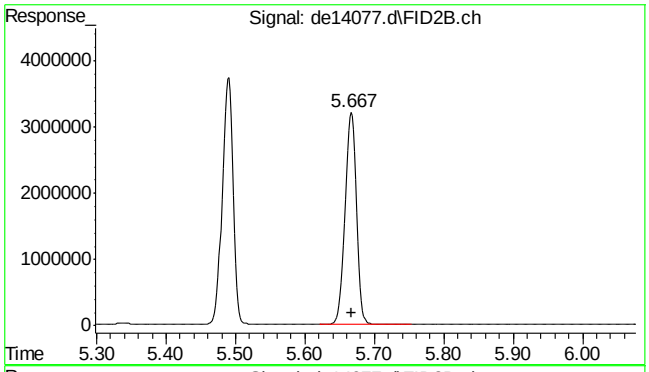
#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3746266
Conc: 50.71 µg/ml



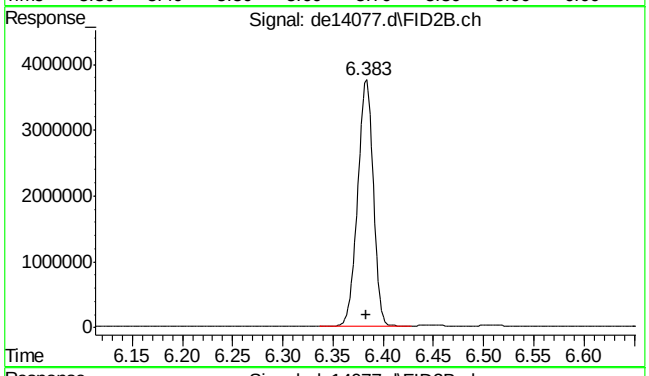
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4004746
Conc: 50.14 µg/ml



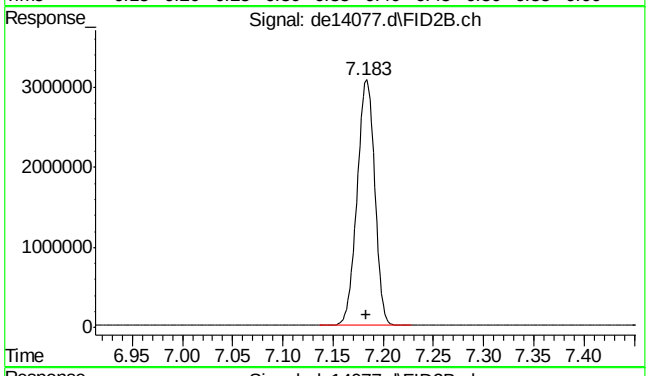
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 3735799
Conc: 50.57 µg/ml



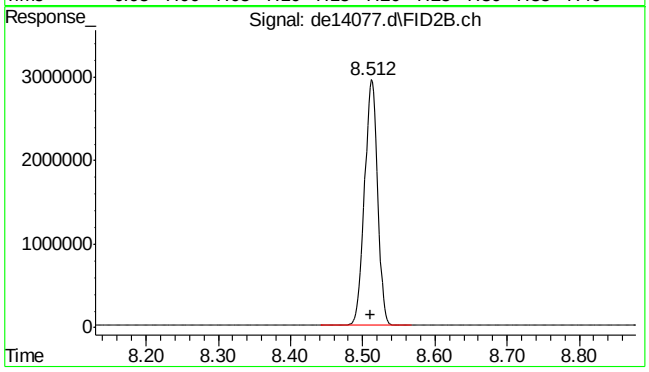
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4009432
Conc: 49.77 µg/ml



#30 c-14

R.T.: 7.183 min
Delta R.T.: 0.000 min
Response: 3720779
Conc: 50.37 µg/ml



#31 c-16

R.T.: 8.512 min
Delta R.T.: 0.000 min
Response: 3698194
Conc: 50.06 µg/ml

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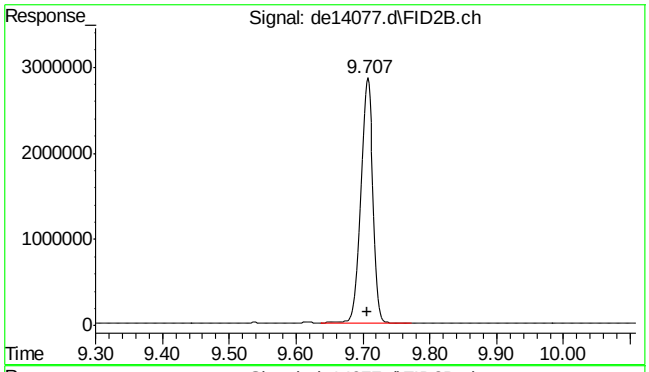
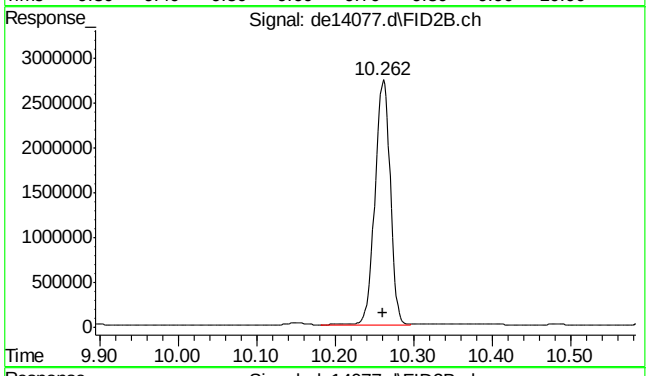


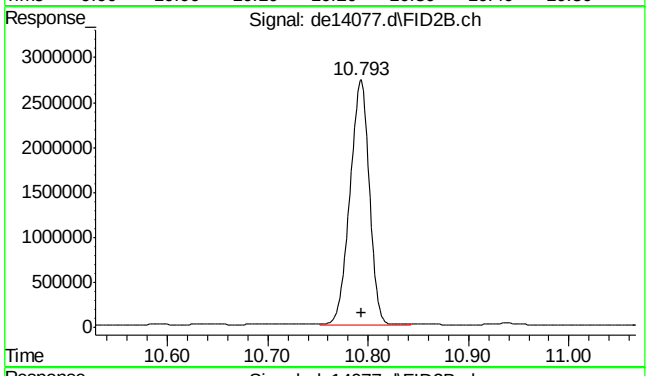
#32 c-18

R.T.: 9.707 min
Delta R.T.: 0.000 min
Response: 3712676
Conc: 50.26 µg/ml



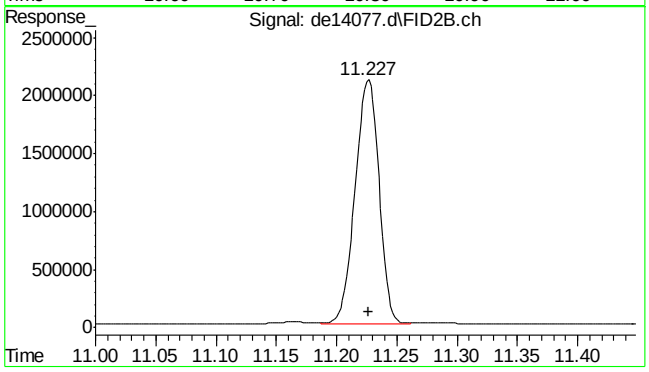
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 3682077
Conc: 55.12 µg/ml



#34 c-20

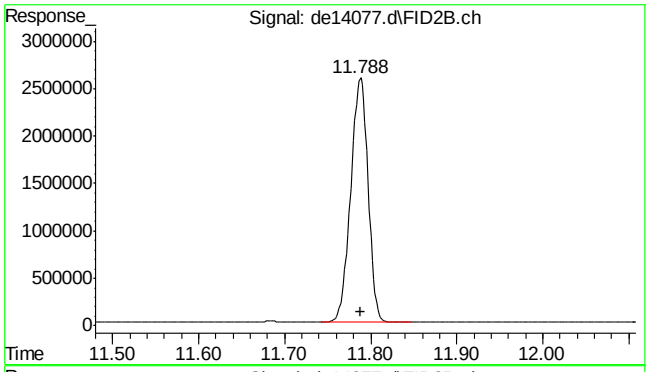
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3612042
Conc: 54.07 µg/ml



#35 1-chlorooctadecane

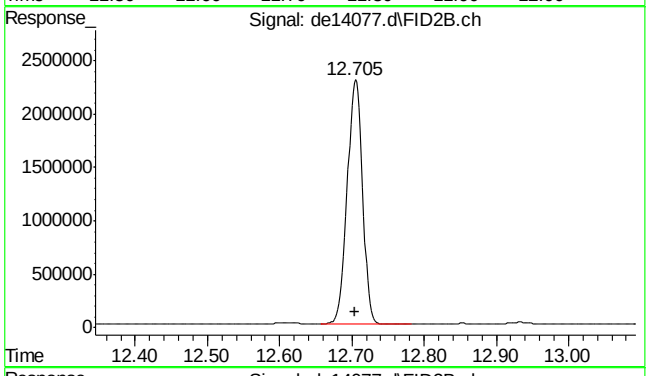
R.T.: 11.227 min
Delta R.T.: 0.000 min
Response: 2905486
Conc: 51.36 µg/ml

SGS ACCUTEST MC45799



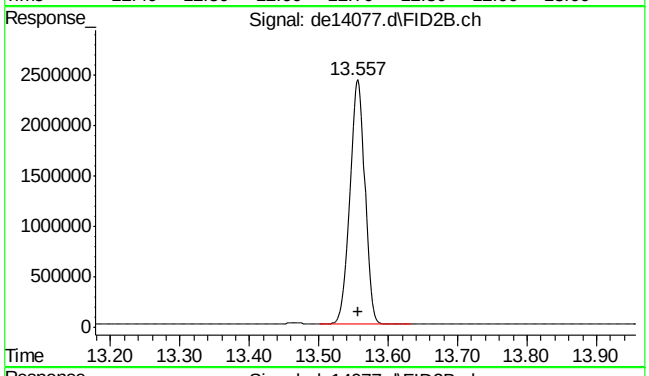
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3597064
Conc: 53.84 µg/ml



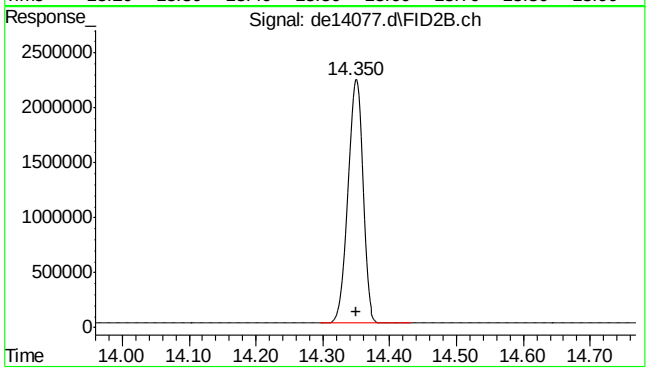
#37 c-24

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 3370773
Conc: 50.46 µg/ml



#38 c-26

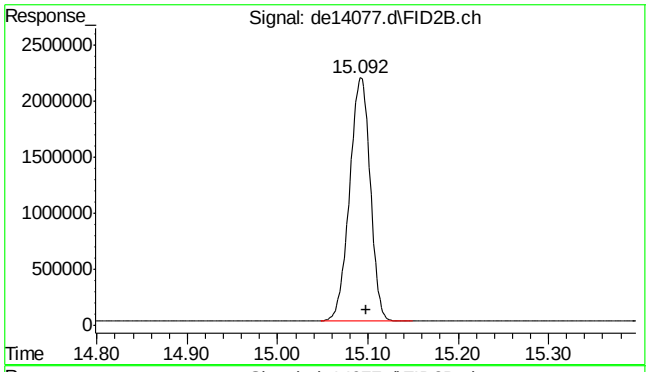
R.T.: 13.557 min
Delta R.T.: 0.000 min
Response: 3589073
Conc: 53.72 µg/ml



#39 c-28

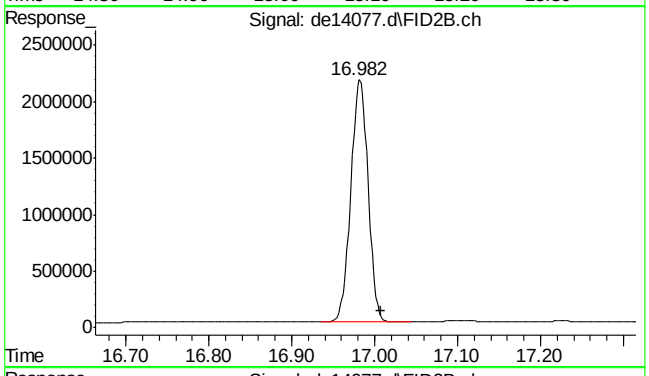
R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3474544
Conc: 52.01 µg/ml

SGS ACCUTEST MC45799



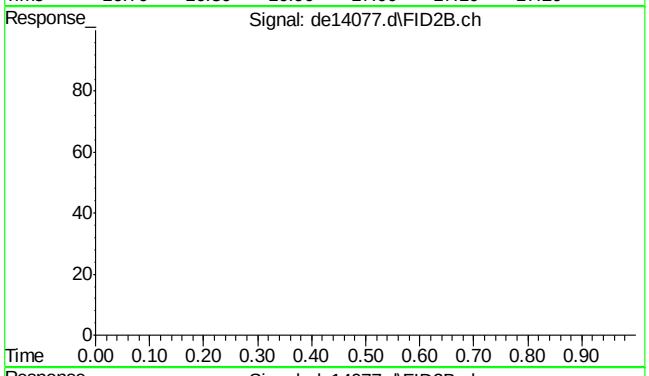
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3471473
Conc: 51.96 µg/ml



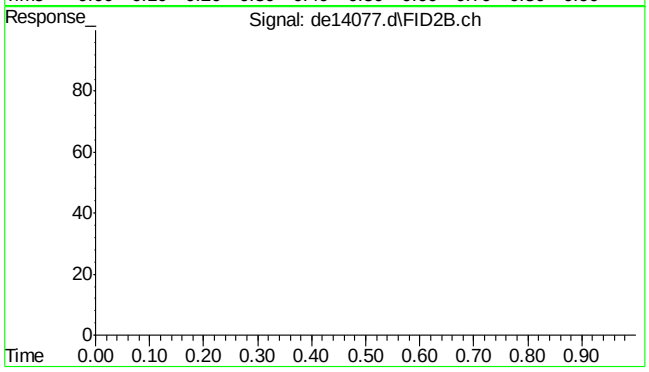
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3096897
Conc: 46.36 µg/ml m



#42 bht

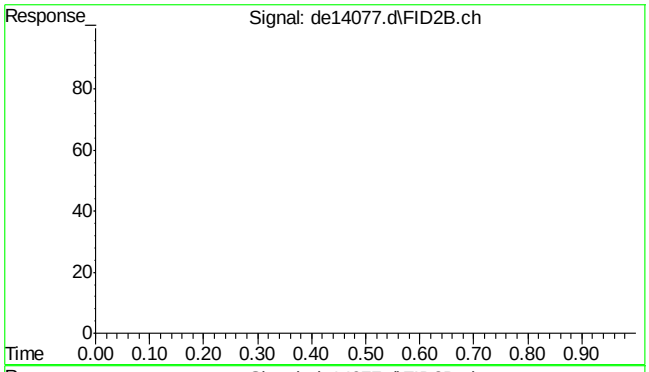
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

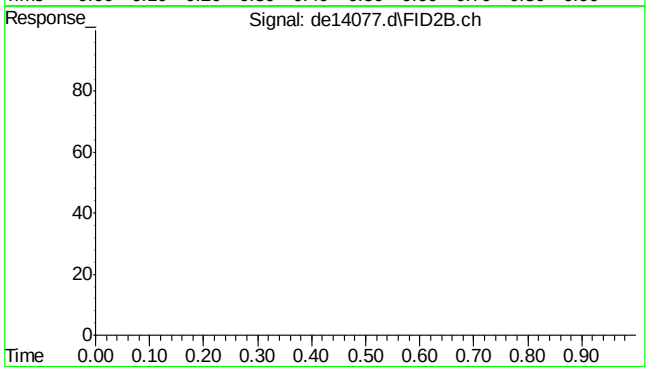
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45799



#44 bht

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



#45 bht

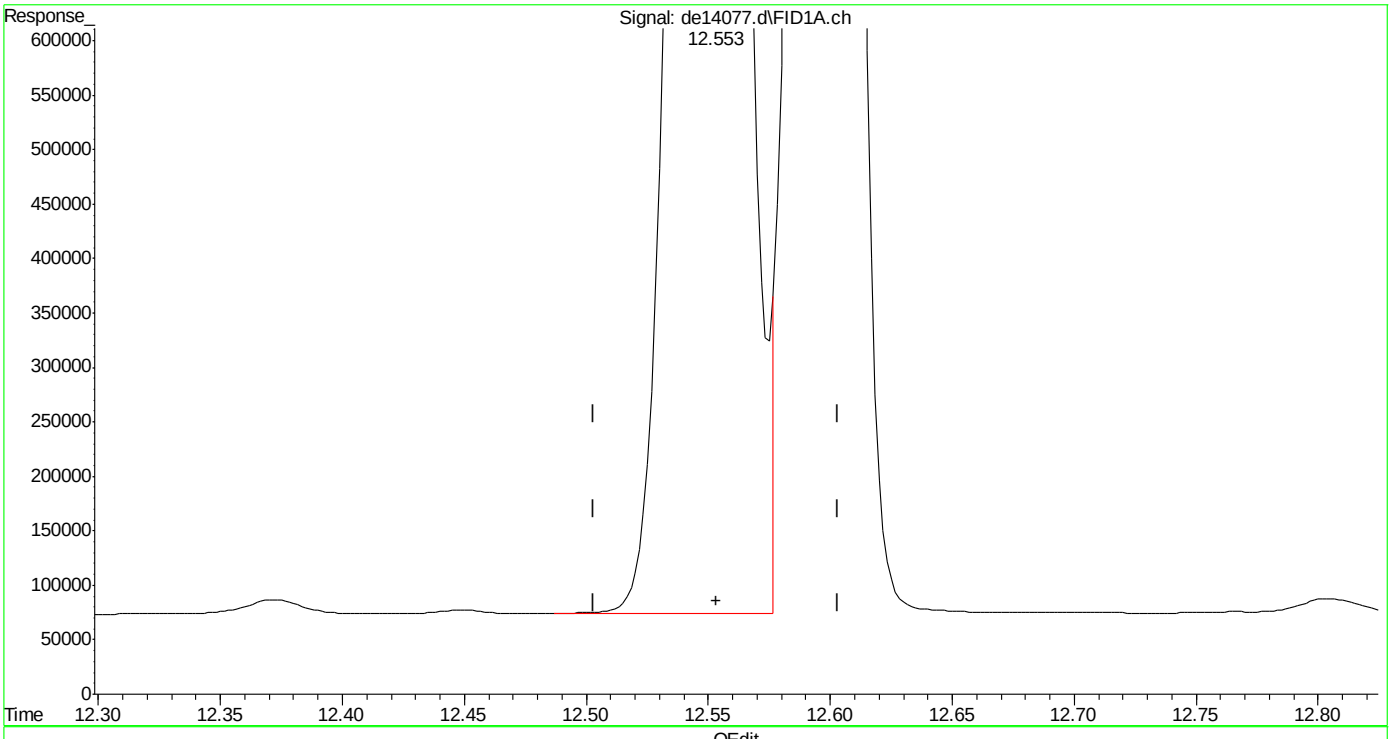
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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
12.553min 47.083 µg/ml
response 4551701

(+) = Expected Retention Time
EPH160513W.M Fri May 13 10:07:01 2016

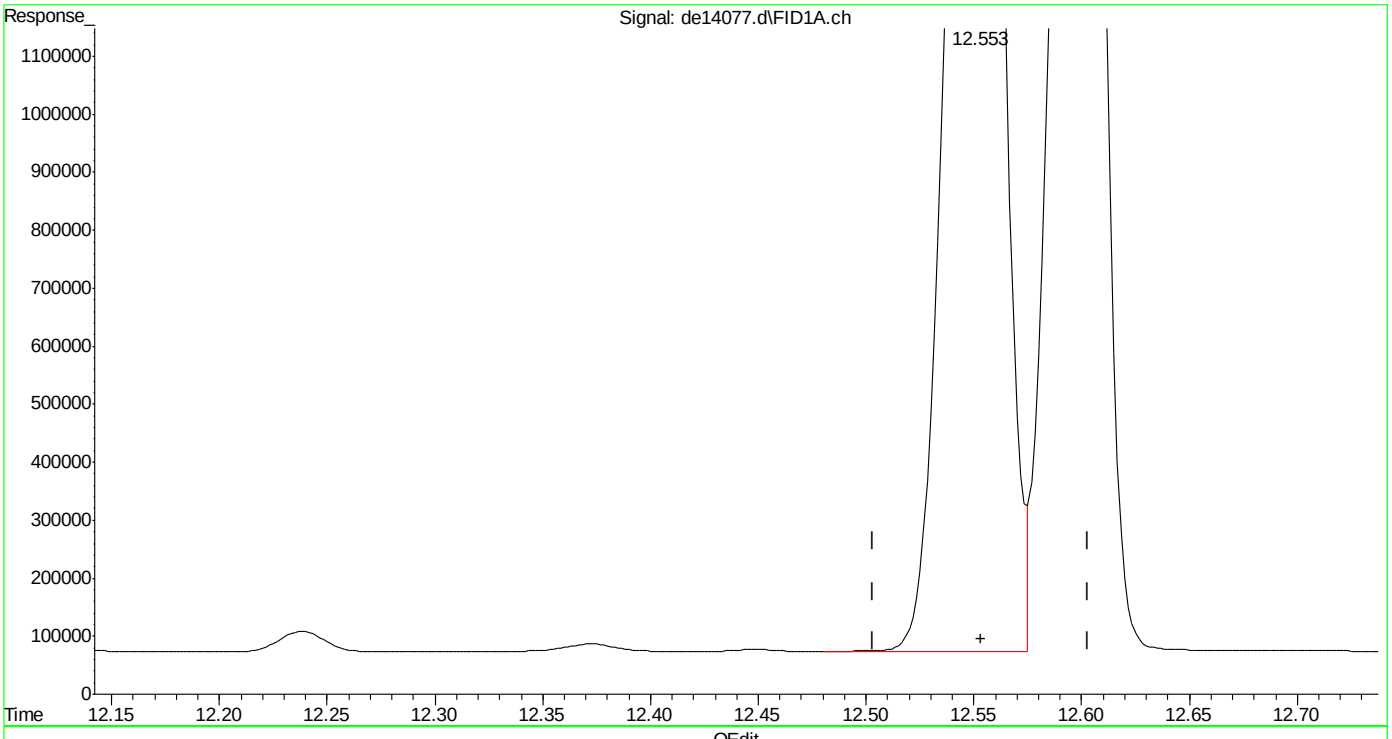
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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
12.553min 46.810 µg/ml m
response 4525398

(+) = Expected Retention Time
EPH160513W.M Fri May 13 10:07:14 2016

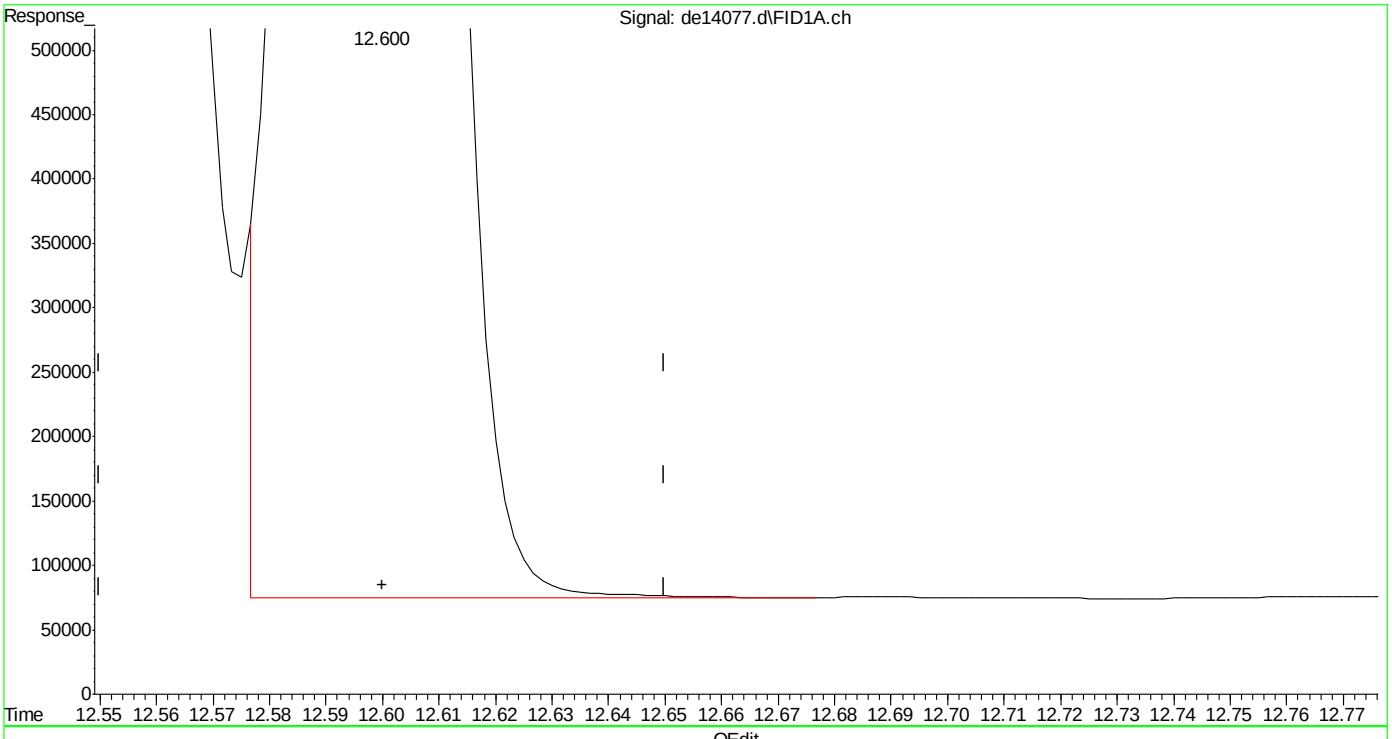
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.600min 46.043 µg/ml
response 4481902

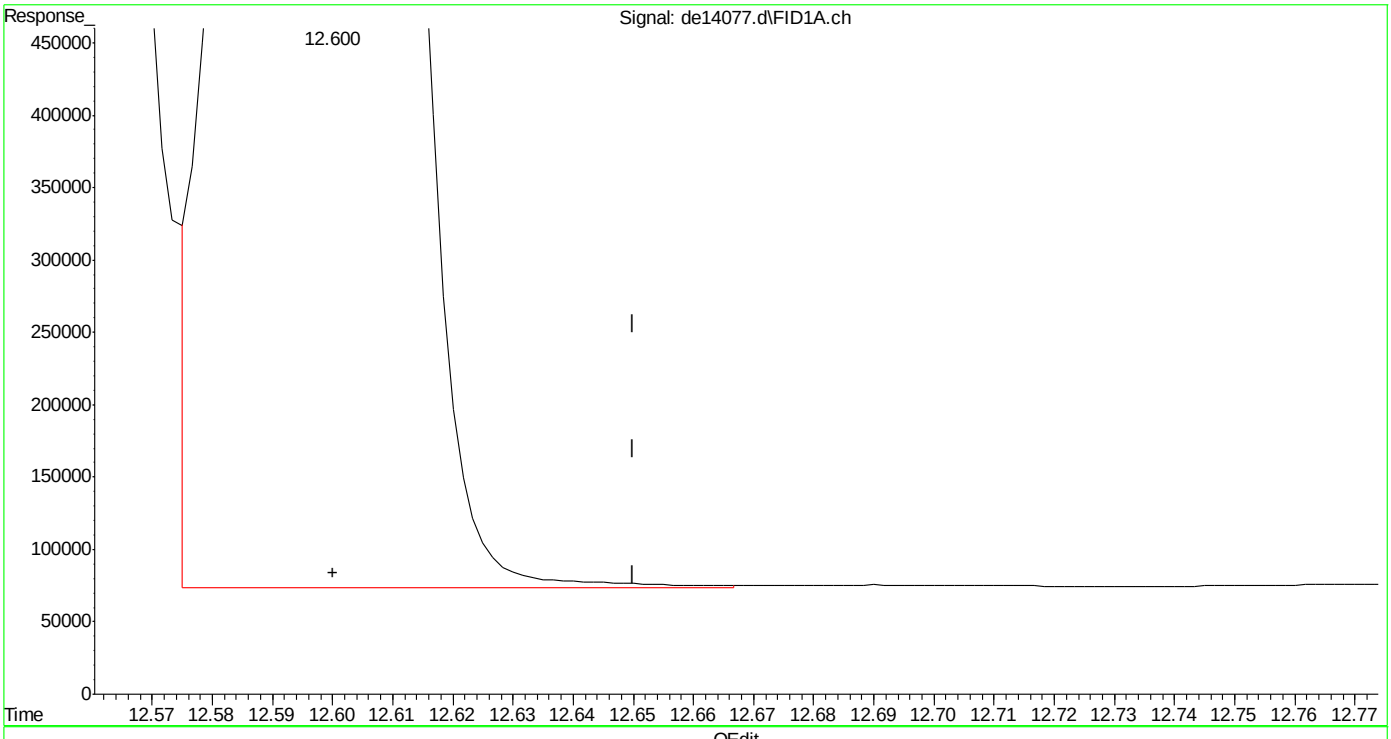
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.600min 46.407 µg/ml m
response 4517264

(+) = Expected Retention Time
EPH160513W.M Fri May 13 10:07:36 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

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Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 13 May 2016   9:43 am
Operator  : thomasa
Sample    : cc735-50,gde790
Misc      : op47446,gde790,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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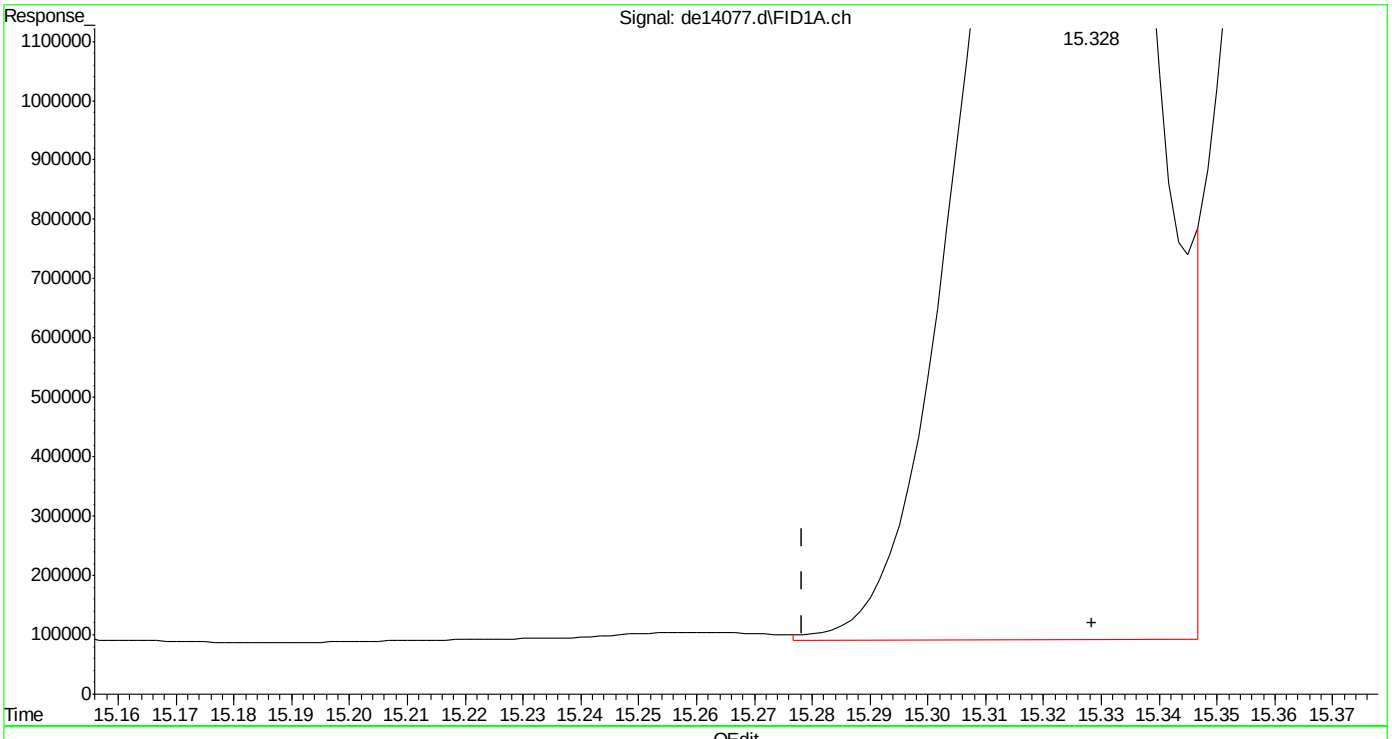



(19) indeno(1,2,3-cd)pyrene

15.328min 50.071 µg/ml

response 4739597

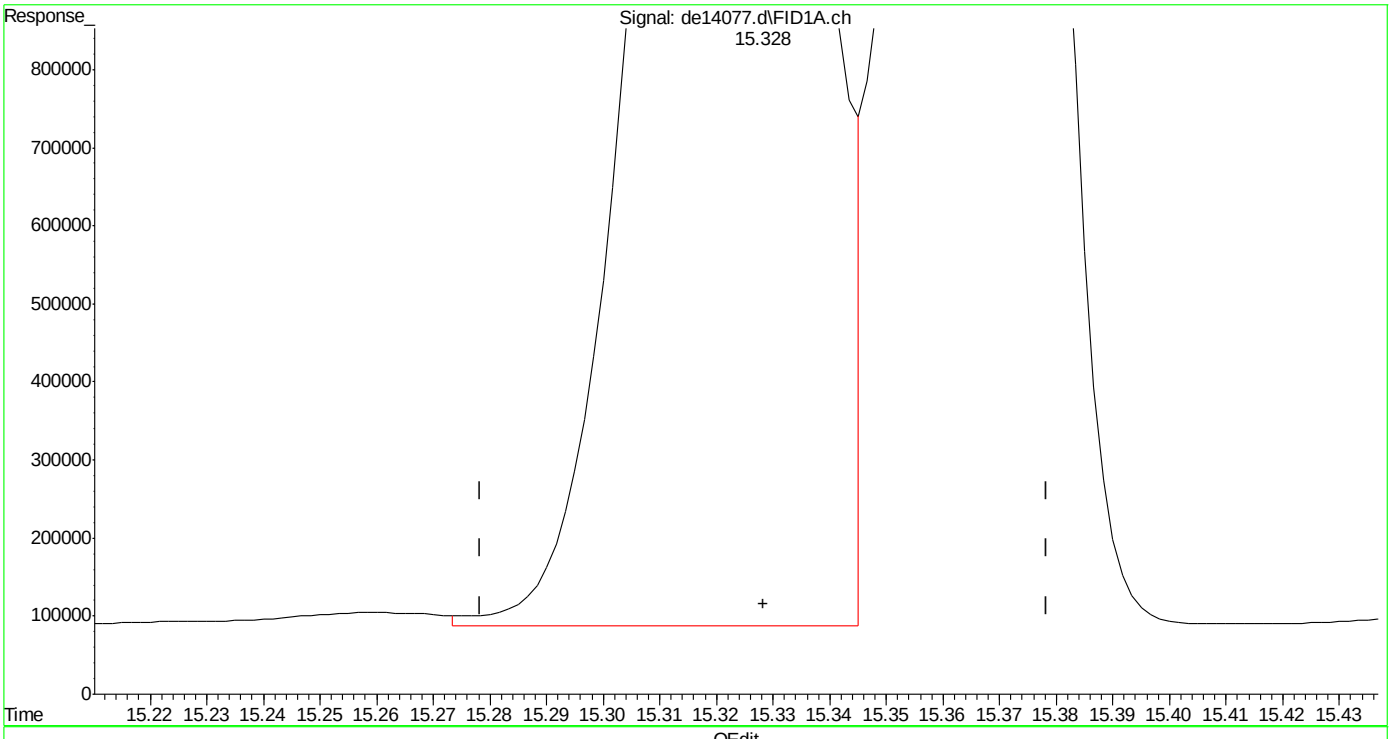
(+) = Expected Retention Time

EPH160513W.M Fri May 13 10:08:25 2016

SGS ACCUTEST MC45799

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 13 May 2016   9:43 am
Operator  : thomasa
Sample    : cc735-50,gde790
Misc      : op47446,gde790,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title  : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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

15.328min 49.555 µg/ml m

response 4690803

(+) = Expected Retention Time

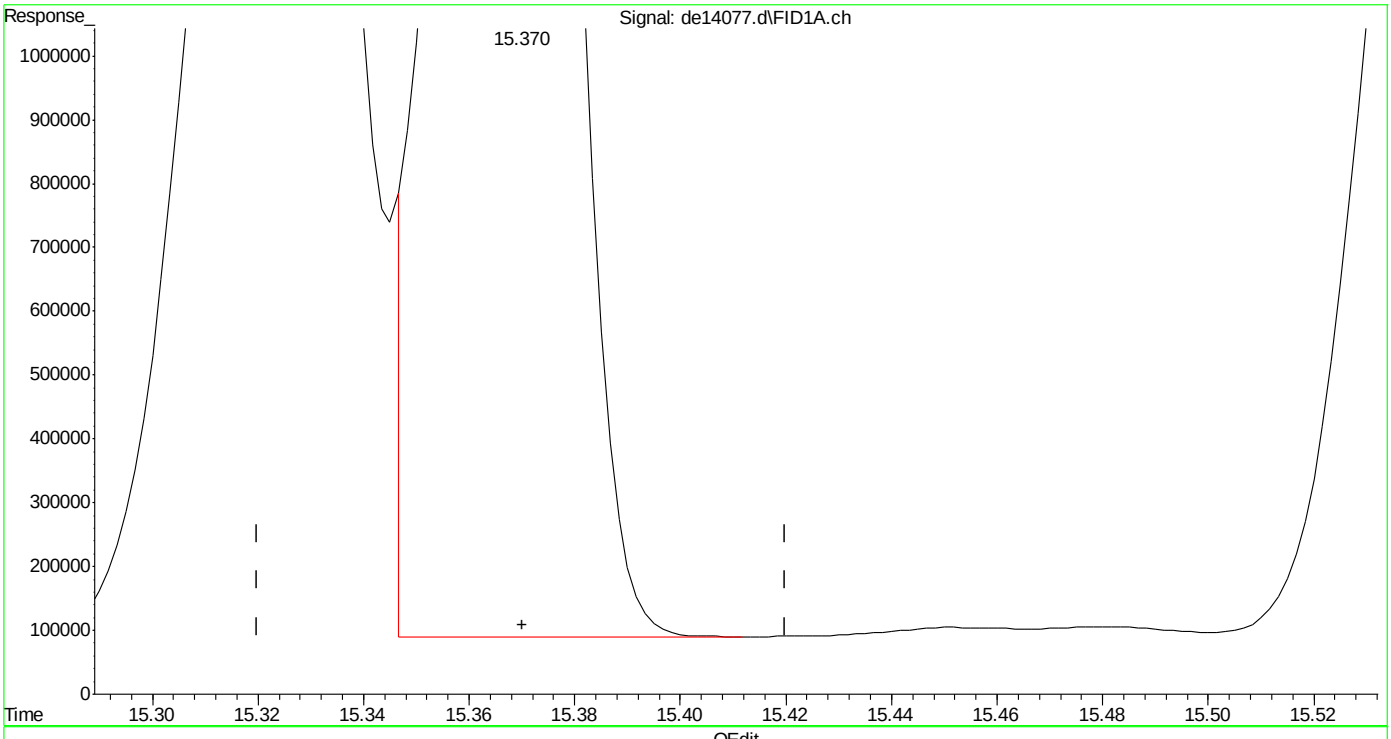
EPH160513W.M Fri May 13 10:08:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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
15.370min 47.897 µg/ml
response 4377747

(+) = Expected Retention Time
EPH160513W.M Fri May 13 10:08:39 2016

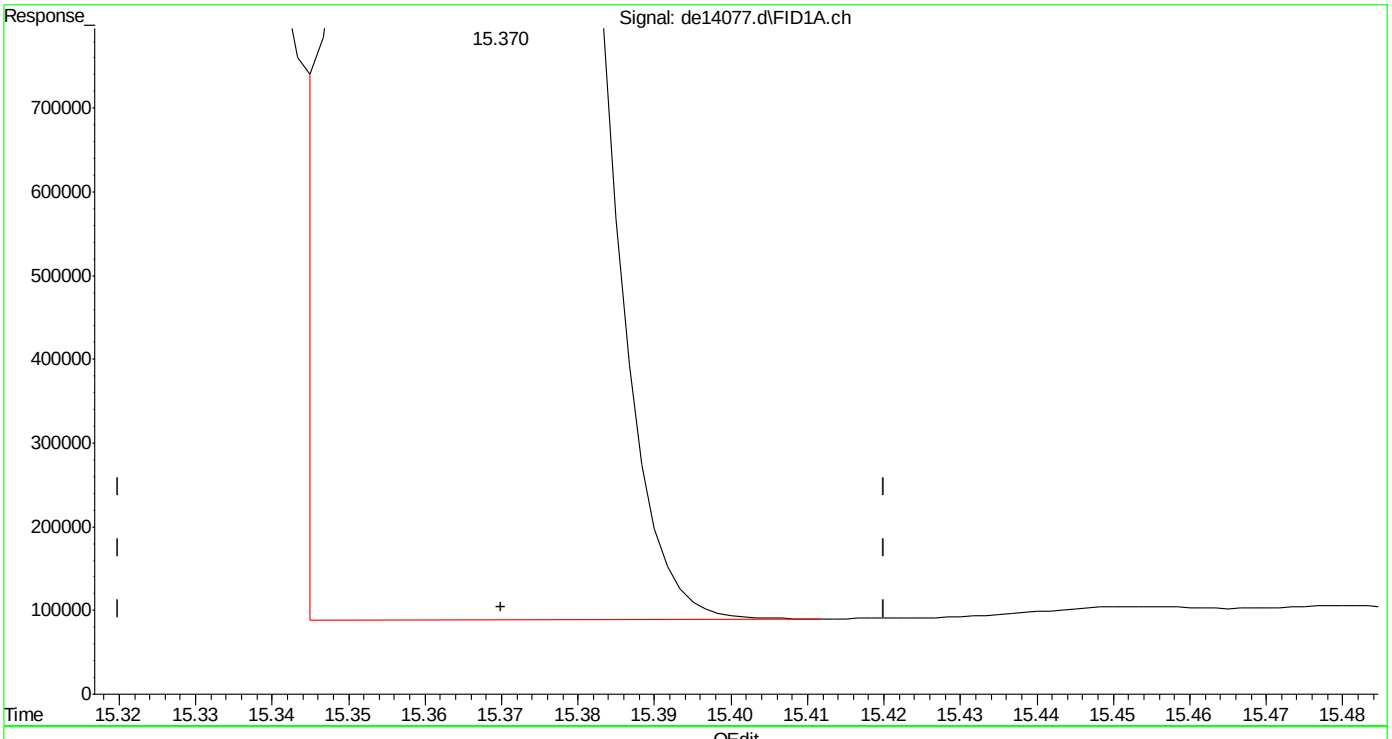
SGS ACCUTEST MC45799

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14077.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 9:43 am
Operator : thomasa
Sample : cc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 10:06:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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
15.370min 48.704 µg/ml m
response 4451460

(+) = Expected Retention Time
EPH160513W.M Fri May 13 10:08:52 2016

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14087.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 2:28 pm
Operator : thomasa
Sample : ecc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 14:52:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	6.608	5610630	60.833 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 304.16%#
6) s	2-bromonaphthalene	7.335	3791257	60.414 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 302.07%#
11) s	o-terphenyl	9.875	6142482	59.970 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 299.85%#
35) s	1-chlorooctadecane	11.228	3171896	56.065 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 280.32%#
	Target Compounds			
2)	naphthalene	5.153	6263211	60.725 µg/ml
3)	2-methylnaphthalene	6.055	6182788	60.330 µg/ml
5)	acenaphthylene	7.168	6148592	61.118 µg/ml
7)	acenaphthene	7.412	6376882	61.686 µg/ml
8)	fluorene	8.055	6191755	60.962 µg/ml
9)	phenanthrene	9.235	6134290	60.280 µg/ml
10)	anthracene	9.292	5903155	60.852 µg/ml
12)	fluoranthene	10.740	5956300	59.598 µg/ml
13)	pyrene	10.997	6102606	60.146 µg/ml
14)	benzo(a)anthracene	12.560	5712066	59.085 µg/ml
15)	chrysene	12.608	5716592	58.727 µg/ml
16)	benzo(B)fluoranthene	13.860	5764103	58.222 µg/ml
17)	benzo(k)fluoranthene	13.888	5677710	60.080 µg/ml
18)	benzo(a)pyrene	14.192	5436975	58.819 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.333	5565545	58.796 µg/ml
20)	dibenzo(ah)anthracene	15.377	5319243	58.198 µg/ml
21)	benzo(ghi)perylene	15.560	5381800	58.420 µg/ml
25) h	c-9	2.648	4099416	55.493 µg/mlm
26) h	c-10	3.815	4161873	56.339 µg/ml
27)	naphthalene #2	5.490	4434633	55.522 µg/ml
28)	c-12	5.667	4139546	56.037 µg/ml
29)	2-methylnaphthalene #2	6.383	4436445	55.066 µg/ml
30)	c-14	7.185	4113410	55.683 µg/ml
31)	c-16	8.513	4065762	55.038 µg/ml
32)	c-18	9.708	4058586	54.941 µg/ml
33)	c-19	10.262	4020214	60.177 µg/ml
34)	c-20	10.793	3939523	58.969 µg/ml
36)	c-22	11.788	3902477	58.415 µg/ml
37)	c-24	12.707	3631425	54.357 µg/ml
38)	c-26	13.557	3841838	57.507 µg/ml

SGS ACCUTEST MC45799

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14087.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 2:28 pm
Operator : thomasa
Sample : ecc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 14:52:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 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	3693070	55.280	µg/ml
40) h	c-30	15.098	3669333	54.925	µg/ml
41) h	c-36	17.008	3275520	49.030	µg/mlm

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

9.4.10

9

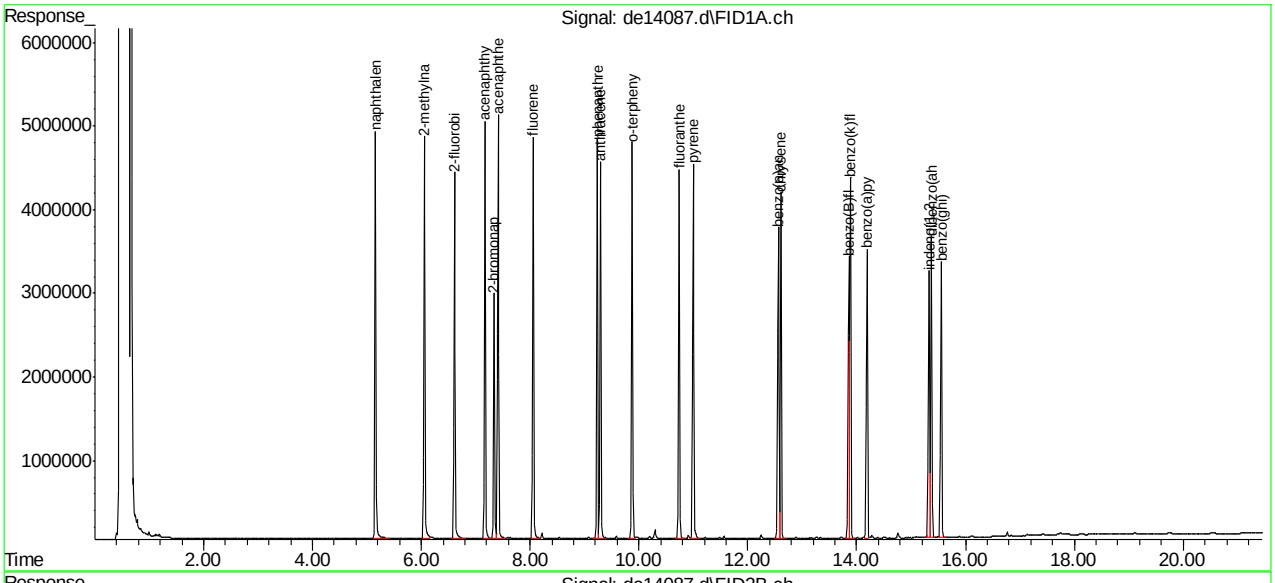
SGS ACCUTEST MC45799

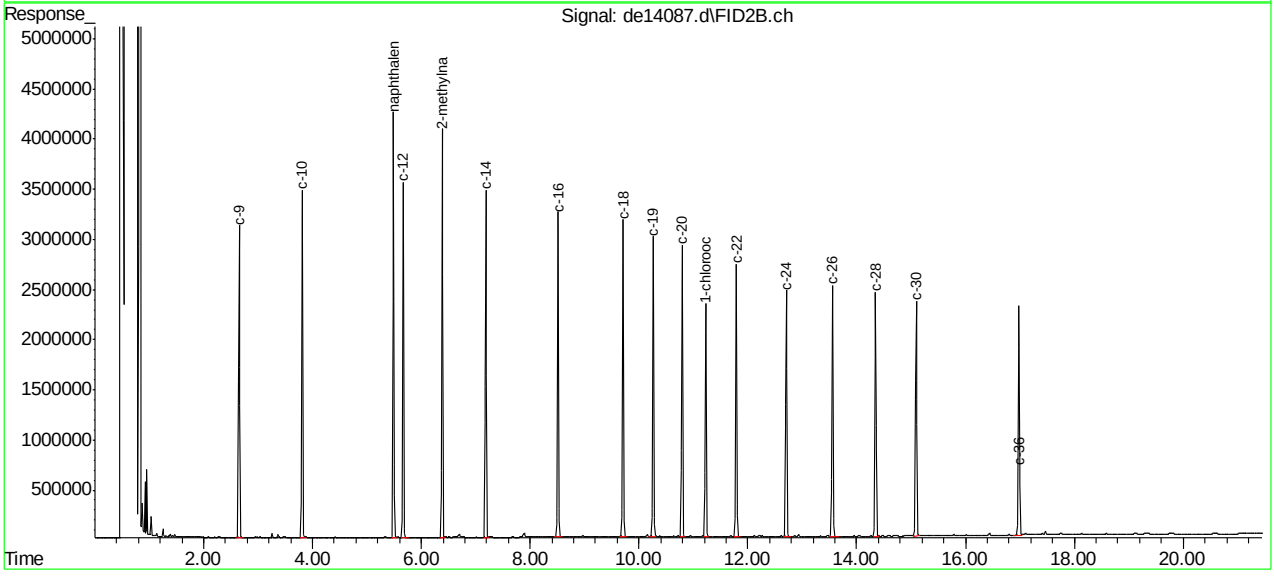
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160513EPH\
Data File : de14087.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 13 May 2016 2:28 pm
Operator : thomasa
Sample : ecc735-50,gde790
Misc : op47446,gde790,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

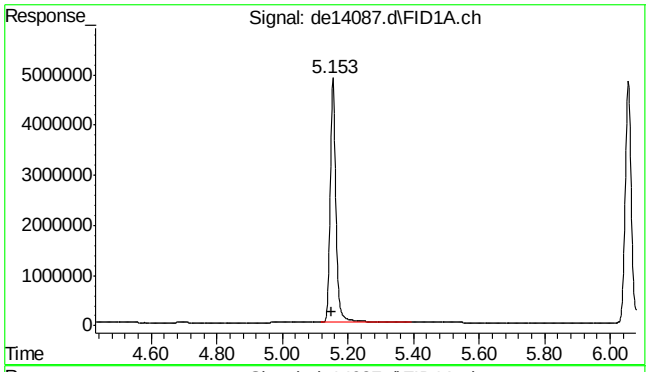
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 13 14:52:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160513W.M
Quant Title : BMAEPH-working method
QLast Update : Fri May 13 10:06:36 2016
Response via : Initial Calibration
Integrator: RTE

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



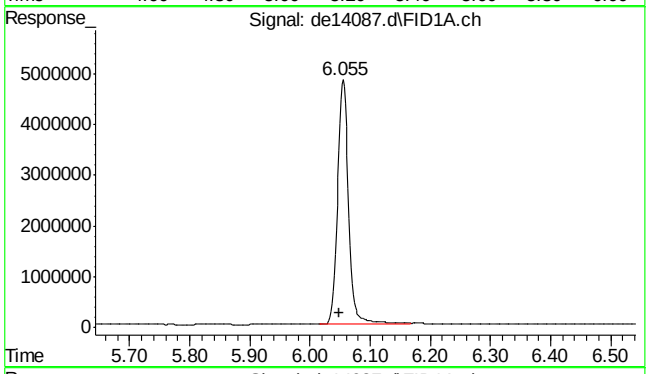


SGS ACCUTEST MC45799



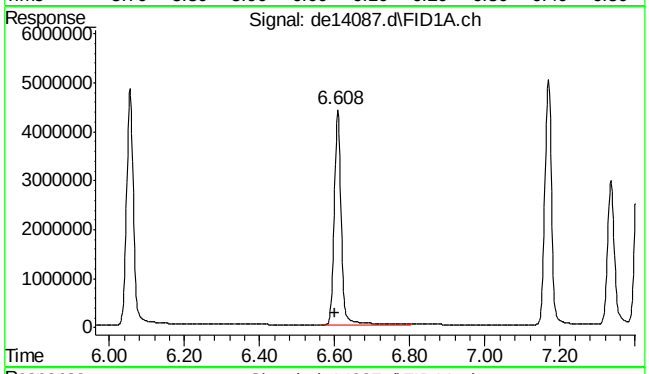
#2 naphthalene

R.T.: 5.153 min
Delta R.T.: 0.005 min
Response: 6263211
Conc: 60.73 µg/ml



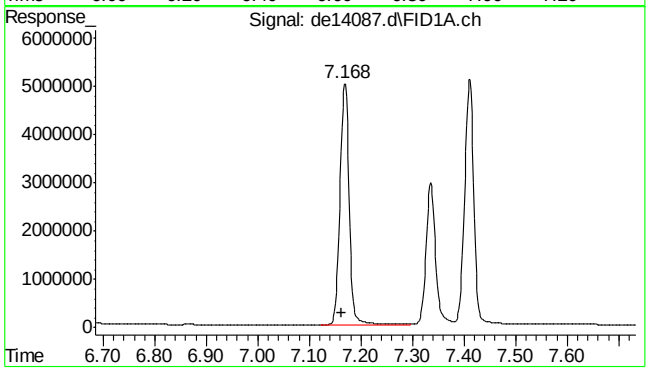
#3 2-methylnaphthalene

R.T.: 6.055 min
Delta R.T.: 0.007 min
Response: 6182788
Conc: 60.33 µg/ml



#4 2-fluorobiphenyl

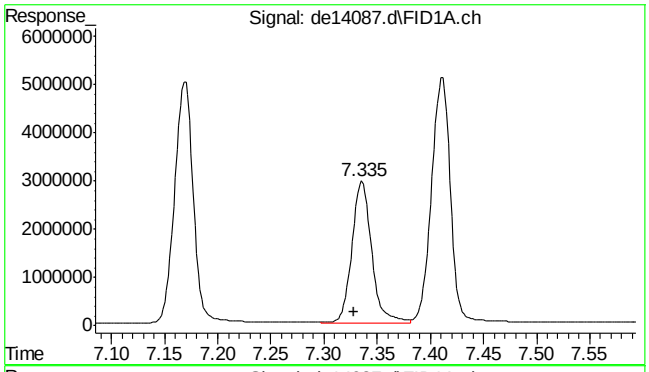
R.T.: 6.608 min
Delta R.T.: 0.007 min
Response: 5610630
Conc: 60.83 µg/ml



#5 acenaphthylene

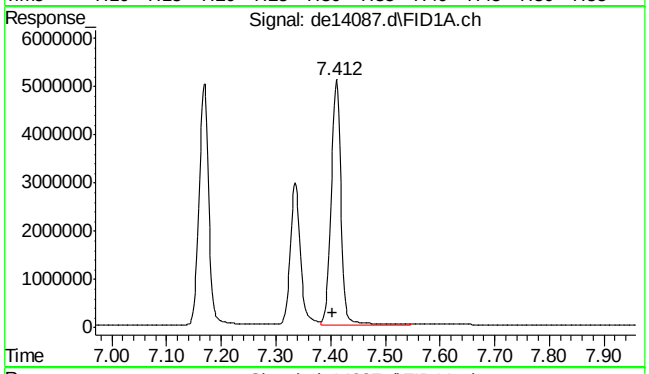
R.T.: 7.168 min
Delta R.T.: 0.007 min
Response: 6148592
Conc: 61.12 µg/ml

SGS ACCUTEST MC45799



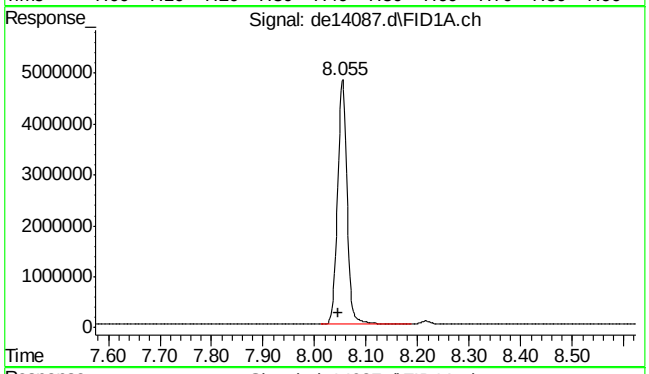
#6 2-bromonaphthalene

R.T.: 7.335 min
Delta R.T.: 0.007 min
Response: 3791257
Conc: 60.41 µg/ml



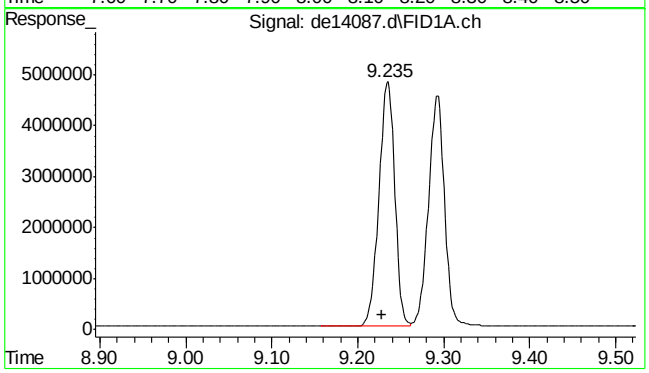
#7 acenaphthene

R.T.: 7.412 min
Delta R.T.: 0.008 min
Response: 6376882
Conc: 61.69 µg/ml



#8 fluorene

R.T.: 8.055 min
Delta R.T.: 0.008 min
Response: 6191755
Conc: 60.96 µg/ml



#9 phenanthrene

R.T.: 9.235 min
Delta R.T.: 0.007 min
Response: 6134290
Conc: 60.28 µg/ml

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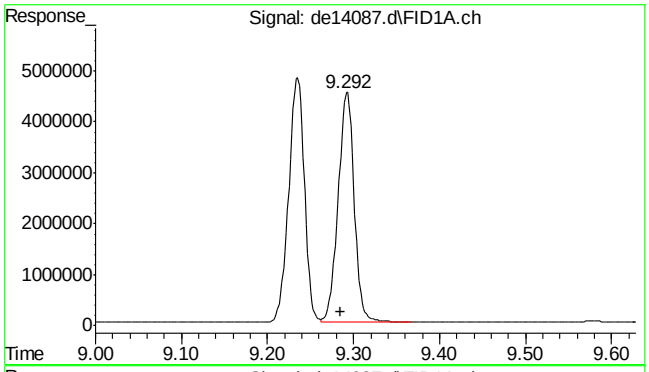
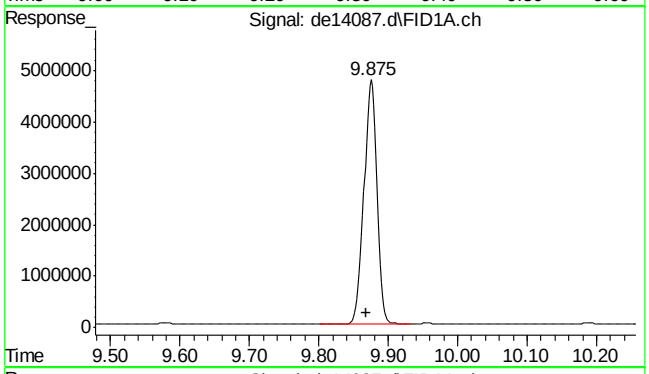


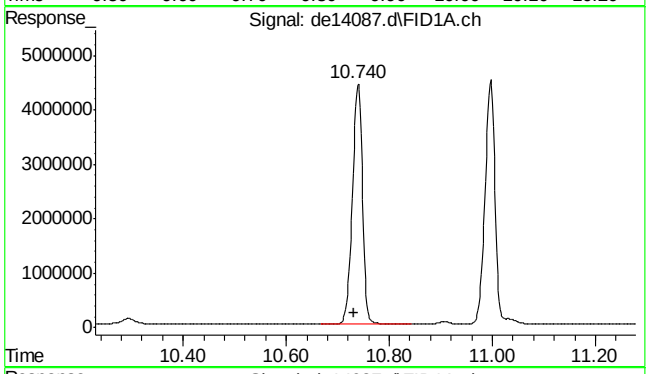
#10 anthracene

R.T.: 9.292 min
Delta R.T.: 0.007 min
Response: 5903155
Conc: 60.85 µg/ml



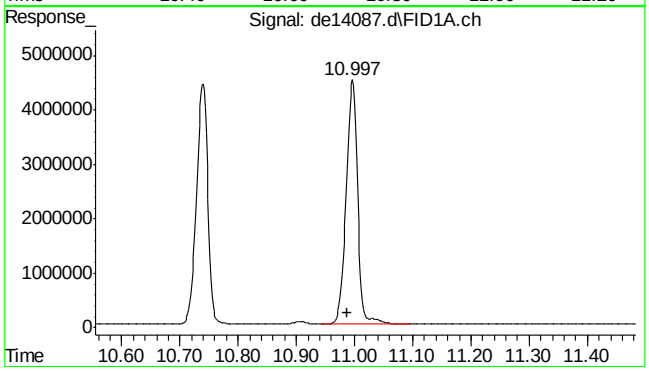
#11 o-terphenyl

R.T.: 9.875 min
Delta R.T.: 0.007 min
Response: 6142482
Conc: 59.97 µg/ml



#12 fluoranthene

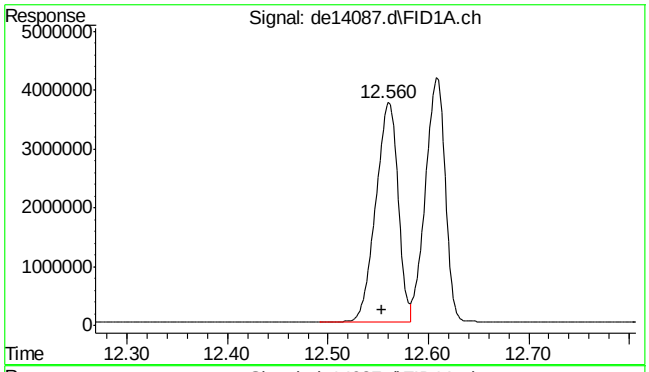
R.T.: 10.740 min
Delta R.T.: 0.008 min
Response: 5956300
Conc: 59.60 µg/ml



#13 pyrene

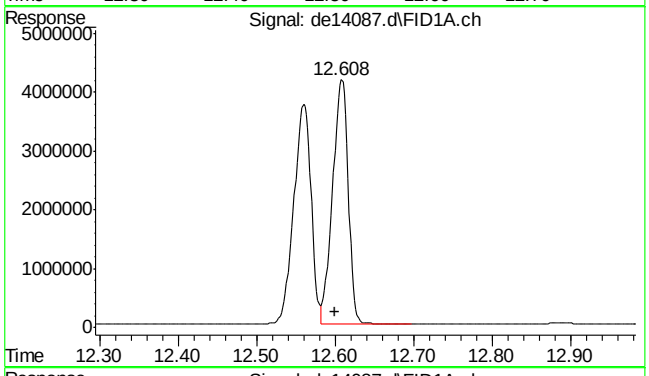
R.T.: 10.997 min
Delta R.T.: 0.008 min
Response: 6102606
Conc: 60.15 µg/ml

SGS ACCUTEST MC45799



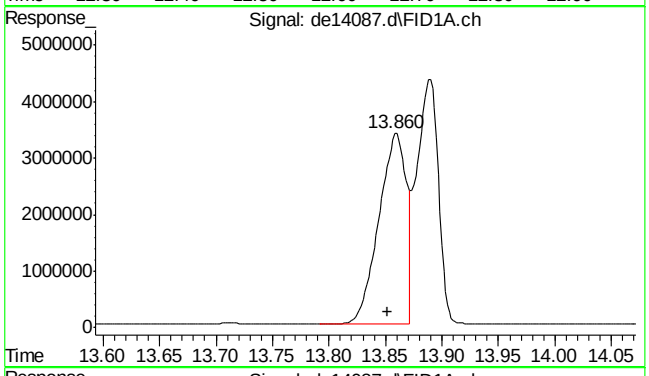
#14 benzo(a)anthracene

R.T.: 12.560 min
Delta R.T.: 0.007 min
Response: 5712066
Conc: 59.09 µg/ml



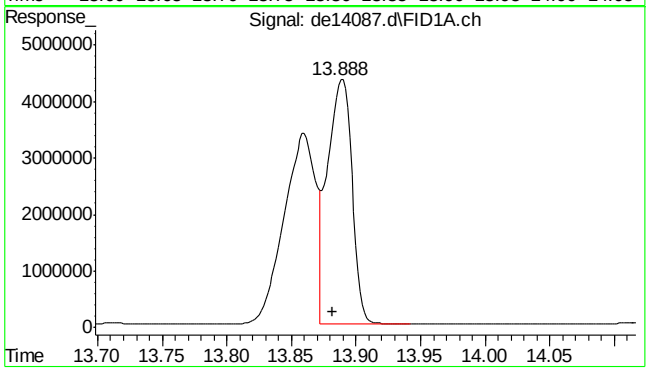
#15 chrysene

R.T.: 12.608 min
Delta R.T.: 0.008 min
Response: 5716592
Conc: 58.73 µg/ml



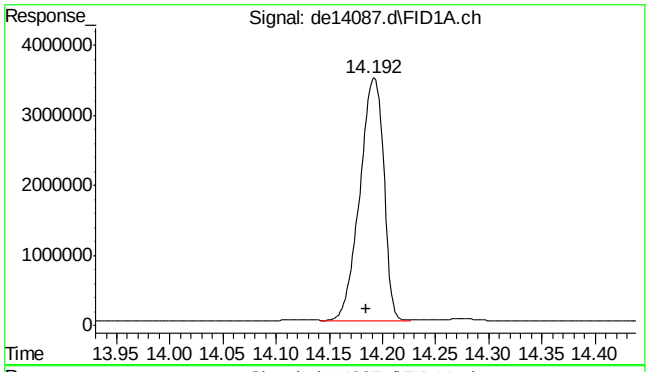
#16 benzo(B)fluoranthene

R.T.: 13.860 min
Delta R.T.: 0.008 min
Response: 5764103
Conc: 58.22 µg/ml



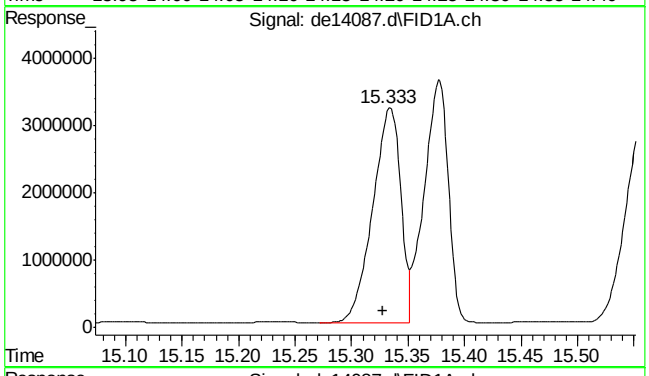
#17 benzo(k)fluoranthene

R.T.: 13.888 min
Delta R.T.: 0.007 min
Response: 5677710
Conc: 60.08 µg/ml



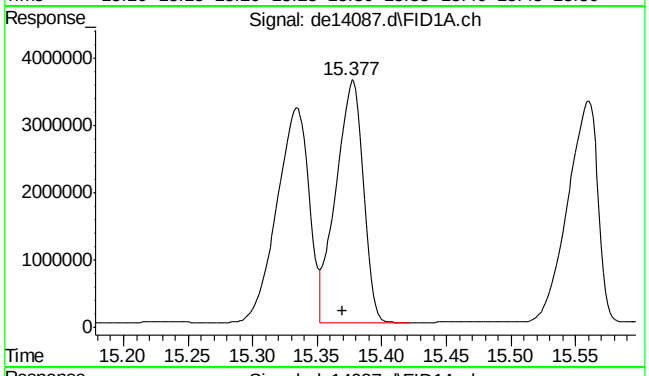
#18 benzo(a)pyrene

R.T.: 14.192 min
Delta R.T.: 0.007 min
Response: 5436975
Conc: 58.82 µg/ml



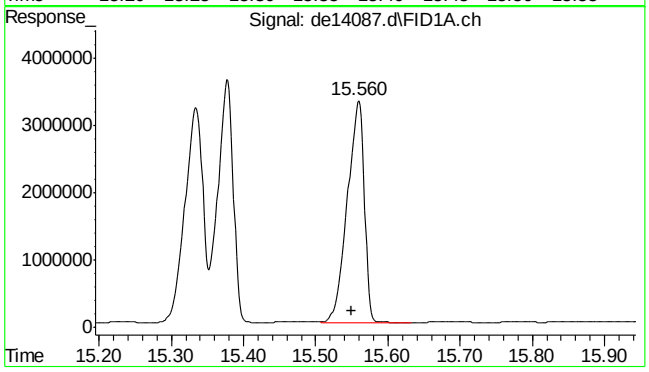
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.333 min
Delta R.T.: 0.005 min
Response: 5565545
Conc: 58.80 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.377 min
Delta R.T.: 0.007 min
Response: 5319243
Conc: 58.20 µg/ml



#21 benzo(ghi)perylene

R.T.: 15.560 min
Delta R.T.: 0.010 min
Response: 5381800
Conc: 58.42 µg/ml

9.4.10

9

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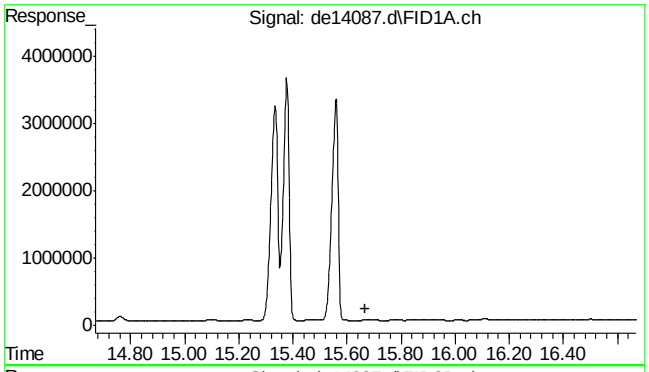
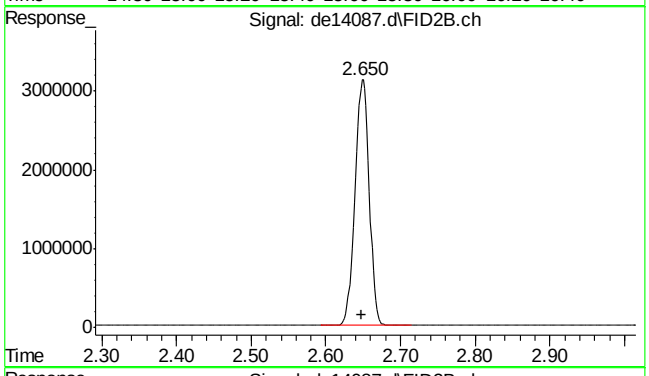


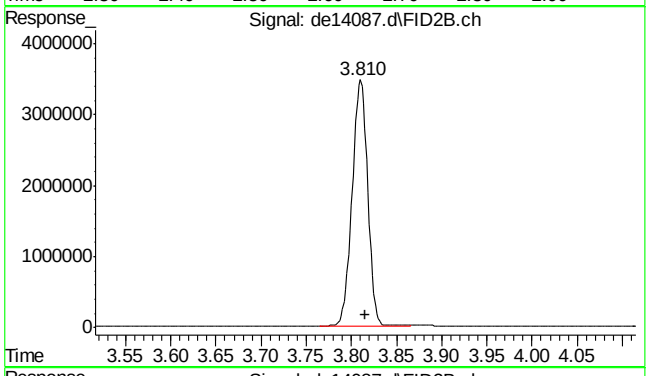
#22 bht

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



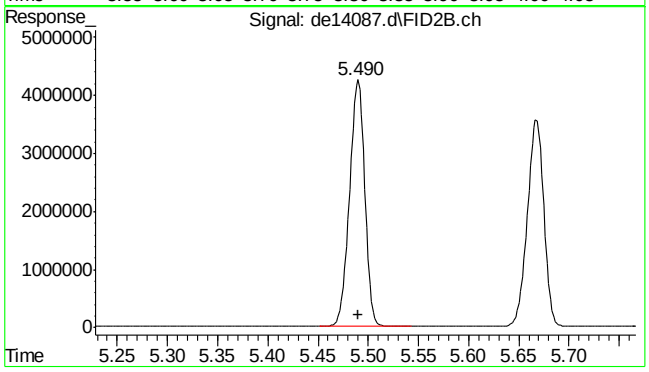
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4099416
Conc: 55.49 µg/ml m



#26 c-10

R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4161873
Conc: 56.34 µg/ml



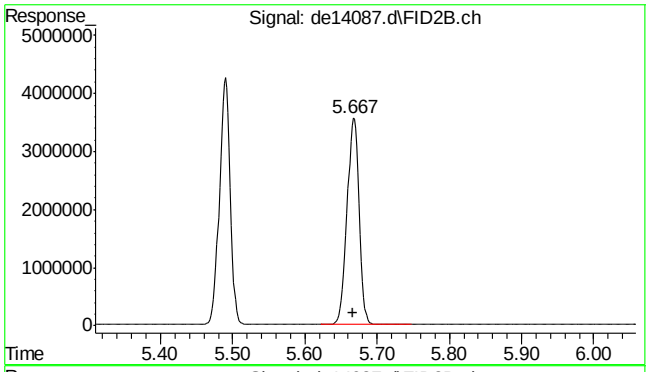
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.000 min
Response: 4434633
Conc: 55.52 µg/ml

9.4.10

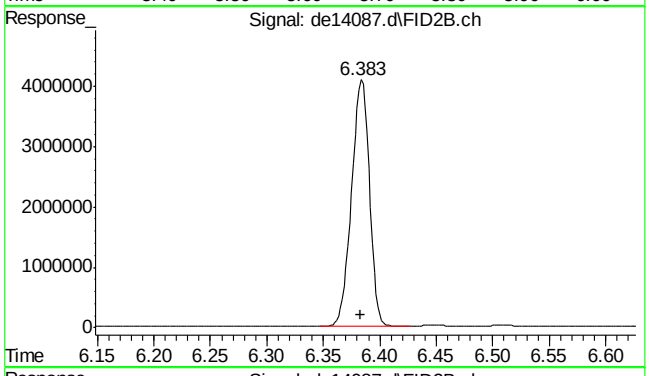
9

SGS ACCUTEST MC45799



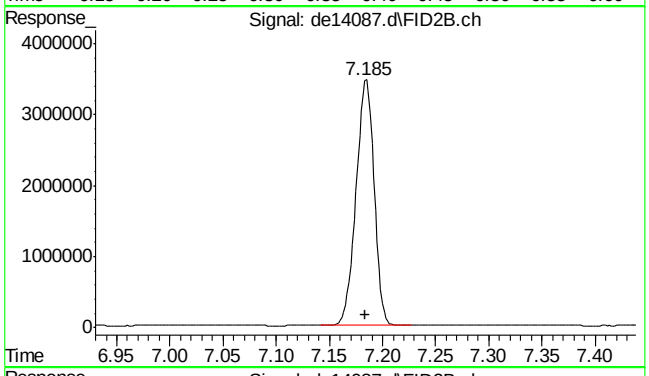
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.000 min
Response: 4139546
Conc: 56.04 µg/ml



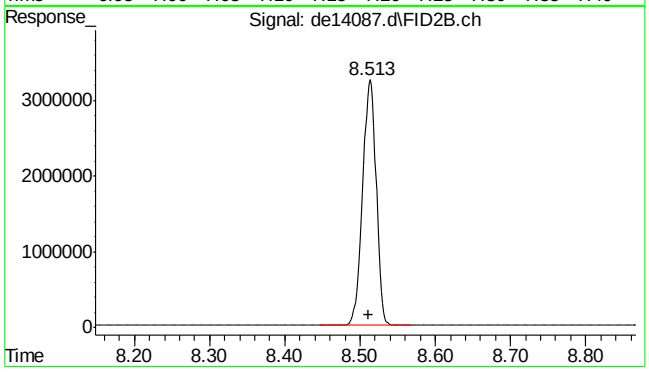
#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: 0.000 min
Response: 4436445
Conc: 55.07 µg/ml



#30 c-14

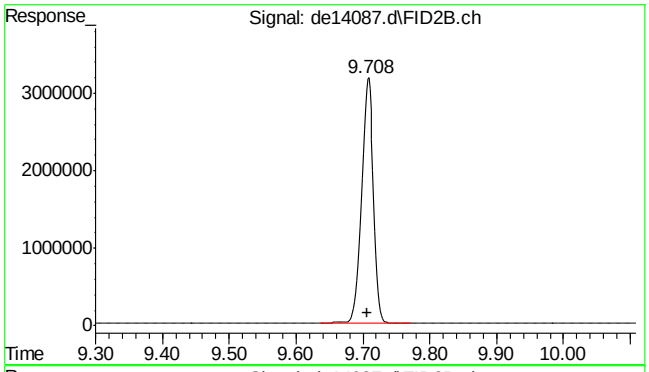
R.T.: 7.185 min
Delta R.T.: 0.002 min
Response: 4113410
Conc: 55.68 µg/ml



#31 c-16

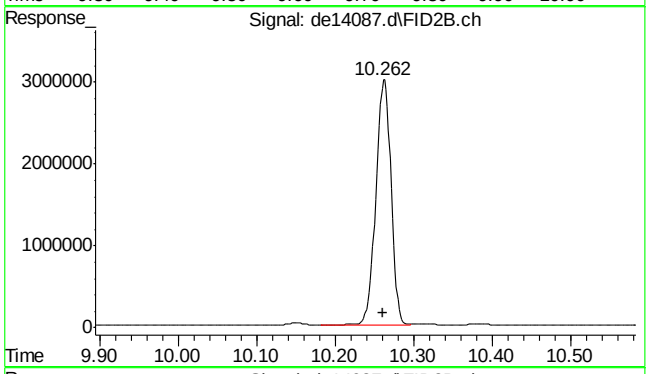
R.T.: 8.513 min
Delta R.T.: 0.002 min
Response: 4065762
Conc: 55.04 µg/ml

SGS ACCUTEST MC45799



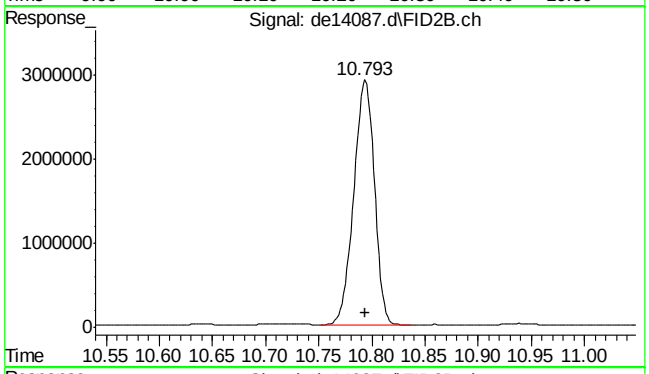
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.002 min
Response: 4058586
Conc: 54.94 µg/ml



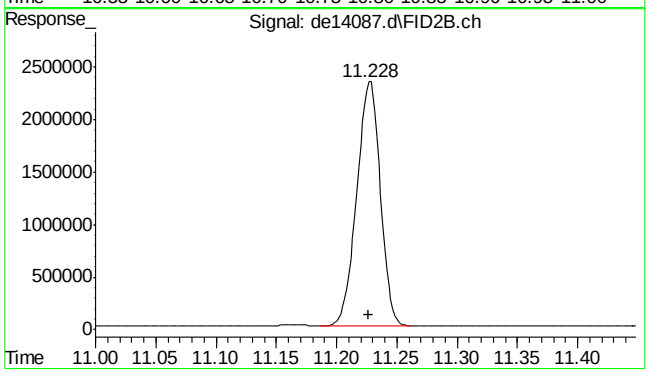
#33 c-19

R.T.: 10.262 min
Delta R.T.: 0.000 min
Response: 4020214
Conc: 60.18 µg/ml



#34 c-20

R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3939523
Conc: 58.97 µg/ml



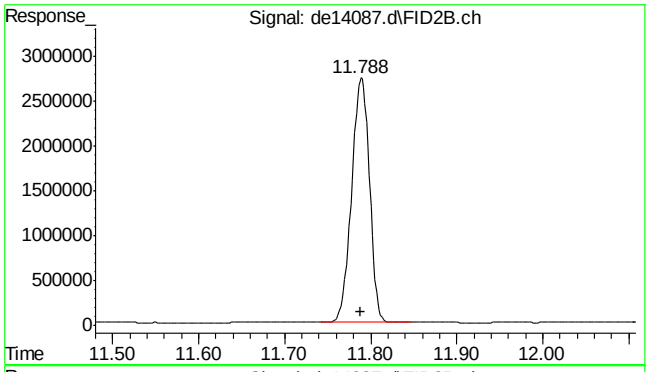
#35 1-chlorooctadecane

R.T.: 11.228 min
Delta R.T.: 0.002 min
Response: 3171896
Conc: 56.07 µg/ml

9.4.10

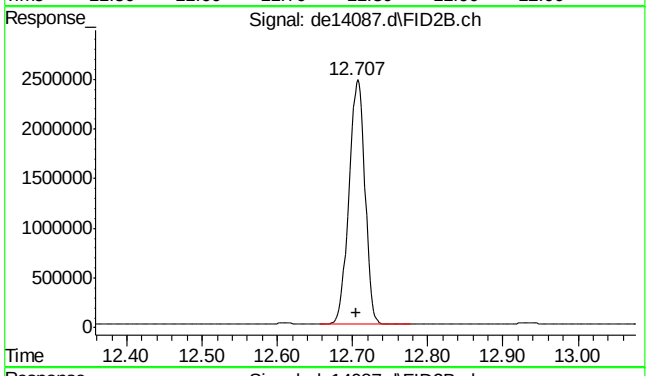
9

SGS ACCUTEST MC45799



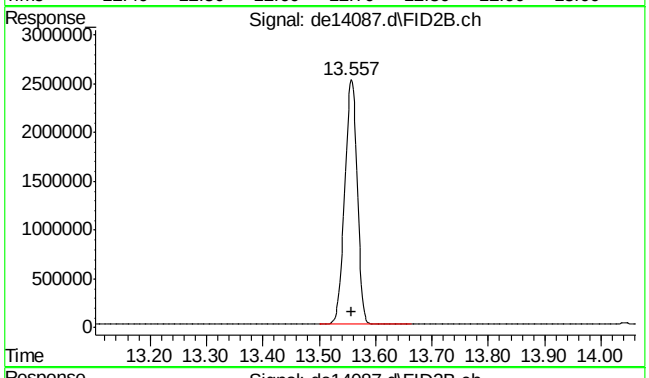
#36 c-22

R.T.: 11.788 min
Delta R.T.: 0.000 min
Response: 3902477
Conc: 58.41 µg/ml



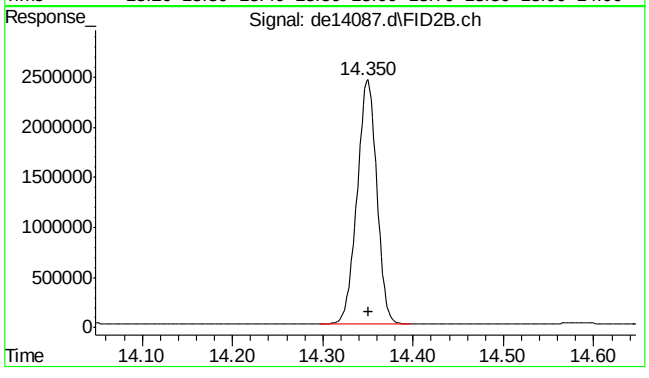
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.002 min
Response: 3631425
Conc: 54.36 µg/ml



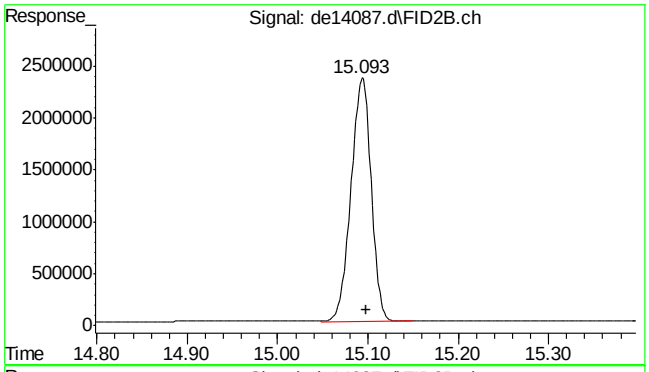
#38 c-26

R.T.: 13.557 min
Delta R.T.: 0.000 min
Response: 3841838
Conc: 57.51 µg/ml



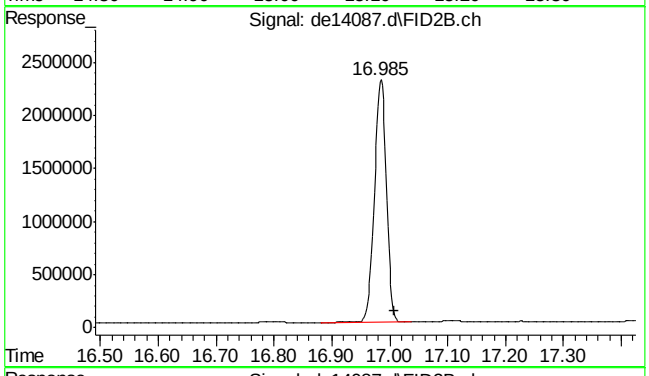
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3693070
Conc: 55.28 µg/ml



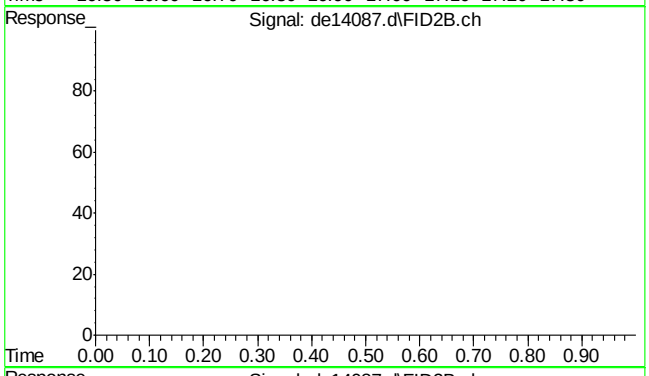
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3669333
Conc: 54.92 µg/ml



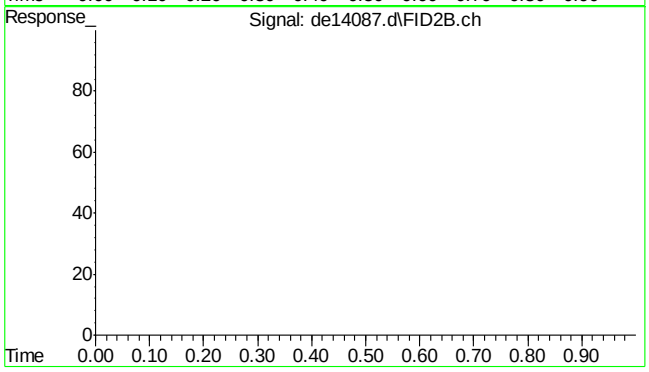
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3275520
Conc: 49.03 µg/ml m



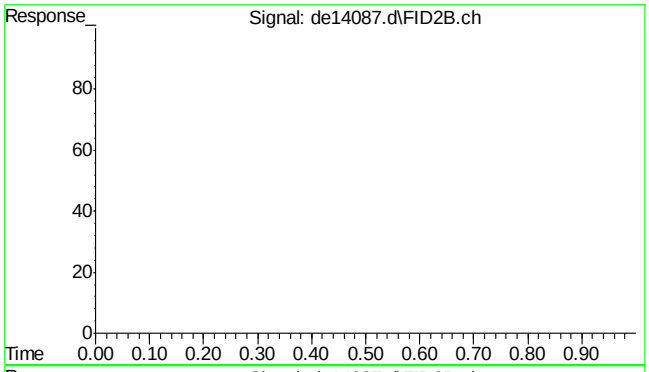
#42 bht

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



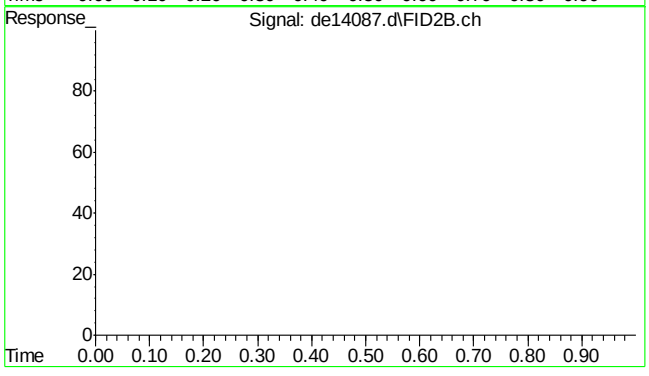
#43 bht

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.

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	
~~(1ml)~~ 1/2	DE13190	Primo	N/A	EPH	N/A	N/A	AI:	ARO
1/2	91	IC735-1					G518066	G518059
3/4	92	-2					65	58
5/6	93	-5					64	57
7/8	94	-20					63	56
9/10	95	ICC735-50					62	55
11/12	96	IC735-100					61	54
13/14	97	-200					60	53
15/16	DE 13198	ICV735-50					ICV=GOOD ARO G518052	AI: G518009

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

Review:

GC011-01
Date: 02/26/07

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de13198.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv735-50

Name	Amount	Response
c-9	49.68	3669865
c-10	49.84	3682081
c-12	49.07	3625160
c-14	48.80	3605226
c-16	47.90	3538485
c-18	47.31	3494684
c-19	51.26	3424371
c-20	50.76	3390870
c-22	49.93	3335369
c-24	49.04	3275936
c-26	48.67	3251556
c-28	47.96	3204302
c-30	47.06	3143578
c-36	43.91	2933493

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	72052	73872	**2.50**	**In Criteria**
C19-C36	64899	66806	**2.90**	**In Criteria**

c28/c20 Percentage: 94.50

1-chlorooctadecane	52.48	2968966
naphthalene #2	50.53	4035939
2-methylnaphthalene	49.08	3954192

BMAEPH - Aliphatic Calibration

Instrument Name GCDE
Operator thomasa

	de13197.d	de13196.d	de13195.d	de13194.d	de13193.d	de13192.d	de13191.d
	200	100	50	20	5	2	1
c-9	13093571	7080731	3541836	1587594	396890	157422	76082
c-10	13149397	7121293	3570776	1597831	401630	158649	77300
c-12	12963152	7047399	3545795	1581613	398273	157764	76748
c-14	12790598	6951061	3516096	1563771	396429	157636	77909
c-16	12583573	6811631	3450251	1537180	389860	156773	78733
c-18	12493898	6758324	3414559	1515877	383929	154646	77956
Total Mass	1200	600	300	120	30	12	6
Total Area	77074189	41770439	21039313	9383866	2367011	942890	464728
RF	64228	69617	70131	78199	78900	78574	77455
Average RF	73872						
% RSD	7.31	**<25%**					
C9 -C18	14774429	**Inserted into 200 ppm level**					
c-19	12406524	6704725	3383527	1500139	381074	151034	78108
c-20	12189358	6591283	3319667	1468089	369620	148378	75638
c-22	12115679	6550653	3288115	1451343	364434	146070	73192
c-24	11324691	6102937	3065680	1351453	339349	135579	69851
c-26	12045195	6486501	3260990	1435543	359561	142920	72850
c-28	11646376	6270223	3155644	1385739	345810	137233	69399
c-30	11593413	6235140	3152151	1377048	345750	139197	74594
c-36	10854654	5572797	2883025	1222680	300895	119416	60516
Total Mass	1600	800	400	160	40	16	8
Total Area	94175890	50514259	25508799	11192034	2806493	1119827	574148
RF	58860	63143	63772	69950	70162	69989	71769
Aerage RF	66806						
% RSD	6.73	**<25%**					
C19-C36	13361285	**Inserted into 200 ppm level**					

Operator thomasa
Instrument Na GCDE

BMAEPH - Aromatic Calibration

	de13197.d 200	de13196.d 100	de13195.d 50	de13194.d 20	de13193.d 5	de13192.d 2	de13191.d 1
naphthalene	19450620	10142634	5345223	2162719	522941	205575	100885
2-methylnaphthalene	19131536	9997868	5287222	2136209	518620	205018	102950
acenaphthylene	18686177	9776029	5189849	2106441	513706	202426	99947
acenaphthene	19311298	10095451	5354326	2170607	524765	207471	101818
fluorene	18917157	9889893	5242546	2130652	515691	204542	100695
phenanthrene	18899419	9875264	5223164	2129143	514273	207031	101800
anthracene	17945874	9378790	4970359	2038508	492058	199105	96242
fluoranthene	18457513	9629565	5079973	2077039	501463	203479	103521
pyrene	18932497	9876553	5123787	2089957	505877	206224	105548
benzo(a)anthracene	17872955	9324427	4883350	2002764	484563	197822	100487
chrysene	18069681	9386529	4951740	2022589	488834	197927	100279
benzo(B)fluoranthene	18893122	9460698	4980192	2094779	499942	197572	100827
benzo(k)fluoranthene	16859064	9345183	4922694	1953249	474469	193855	95833
benzo(a)pyrene	17319408	8964794	4724847	1927552	464216	184685	94743
indeno(1,2,3-cd)pyrene	18670540	9240715	4854725	1948257	472235	186820	94483
dibenzo(ah)anthracene	16610466	8726656	4685536	1933263	466623	185980	92785
benzo(ghi)perylene	17523714	8869696	4705124	1916075	463653	184915	93453
Total Mass (Targets)	3400	1700	850	340	85	34	17
Total Area (Targets)	311551041	161980745	85524657	34839803	8423929	3370447	1686296
RF	91633	95283	100617	102470	99105	99131	99194
Average RF	98205						

% RSD **3.41** **<25%**
C11-C22 Aromatics **19640926** **Insert into 200ppm level**

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: ~~5.10~~ 5.13.16

Analyst Signature: [illegible]

Standard Data

Lot #	Description	Conc
651806 2	Ab LCV	50 ug/ml
↓ 055	Ab CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: DE160513.S
Quantitation Methods: EPH160513W.m
Instrument Run Batches: GDE 790
Data Acquisition Methods: EPH DUAL W Inj. Vol: [illegible]
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
1/1/1/2	DE14077	CC735-50	N/A	MA EPH	N/A	N/A	CAL
1/2	78	OP47446-BS	OP47446		W		
3/4	79	-BSD					
5/6	80	-MB					
7/8	81	MC45799-1A					
9/10	82	-2A					
11/12	83	MC45816-1A					
13/14	84	-3A					
15/16	85	-4A					
17/18	86	-5A					
1/1/1/2	DE14087	CCC735-50	N/A		N/A		CAL

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:

7

9.5.2

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BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14077.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50,gde790

Name	Amount	Response
c-9	49.93	3688554
c-10	50.71	3746266
c-12	50.57	3735799
c-14	50.37	3720779
c-16	50.06	3698194
c-18	50.26	3712676
c-19	55.12	3682077
c-20	54.07	3612042
c-22	53.84	3597064
c-24	50.46	3370773
c-26	53.72	3589073
c-28	52.01	3474544
c-30	51.96	3471473
c-36	46.36	3096897

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	74341	73872	**0.63**	**In Criteria**
C19-C36	69735	66806	**4.29**	**In Criteria**

c28/c20 Percentage: 96.19

1-chlorooctadecane	51.36	2905486
naphthalene #2	50.14	4004746
2-methylnaphthalene	49.77	4009432

9.5.2

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14087.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc735-50,gde790

Name	Amount	Response
c-9	55.49	4099416
c-10	56.34	4161873
c-12	56.04	4139546
c-14	55.68	4113410
c-16	55.04	4065762
c-18	54.94	4058586
c-19	60.18	4020214
c-20	58.97	3939523
c-22	58.41	3902477
c-24	54.36	3631425
c-26	57.51	3841838
c-28	55.28	3693070
c-30	54.92	3669333
c-36	49.03	3275520

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	82129	73872	**10.59**	**In Criteria**
C19-C36	74934	66806	**11.47**	**In Criteria**

c28/c20 Percentage: 93.74

1-chlorooctadecane	56.07	3171896
naphthalene #2	55.52	4434633
2-methylnaphthalene	55.07	4436445

SGS ACCUTEST MC45799

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47446-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		18.29	50	73.16	
2-methylnaphthalene		18.65	50	74.62	
2-fluorobiphenyl	s	18.20	40	90.99	
acenaphthylene		18.87	50	75.48	
2-bromonaphthalene	s	17.22	40	86.10	
acenaphthene		20.24	50	80.97	
fluorene		19.90	50	79.62	
phenanthrene		20.19	50	80.77	
anthracene		22.82	50	91.26	
o-terphenyl	s	17.88	40	89.41	
fluoranthene		22.34	50	89.34	
pyrene		22.19	50	88.78	
benzo(a)anthracene		23.46	50	93.83	
chrysene		23.33	50	93.34	
benzo(B)fluoranthene		23.67	50	94.68	
benzo(k)fluoranthene		22.86	50	91.45	
benzo(a)pyrene		23.84	50	95.35	
indeno(1,2,3-cd)pyrene		23.62	50	94.46	
dibenzo(ah)anthracene		23.66	50	94.65	
benzo(ghi)perylene		24.07	50	96.28	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.35	50	61.38	
c-10		17.65	50	70.61	
c-12		18.80	50	75.21	
c-14		18.98	50	75.93	
c-16		19.30	50	77.20	
c-18		20.32	50	81.28	
c-19		22.80	50	91.21	
c-20		22.96	50	91.84	
1-chlorooctadecane	s	15.32	40	76.60	
c-22		23.20	50	92.82	
c-24		22.98	50	91.91	
c-26		22.50	50	90.01	
c-28		21.96	50	87.83	
c-30		20.99	50	83.94	
c-36		14.48	50	57.94	

Recovery C9-C18
73.60

Recovery C19-C36
85.94

naphthalene #2	0.14	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.09	0.74	0.47

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47446-bsd

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		18.23	50	72.93	
2-methylnaphthalene		18.46	50	73.85	
2-fluorobiphenyl	s	17.50	40	87.51	
acenaphthylene		18.82	50	75.28	
2-bromonaphthalene	s	16.94	40	84.72	
acenaphthene		20.73	50	82.91	
fluorene		19.97	50	79.86	
phenanthrene		20.50	50	82.01	
anthracene		22.89	50	91.58	
o-terphenyl	s	19.22	40	96.08	
fluoranthene		22.59	50	90.37	
pyrene		22.42	50	89.68	
benzo(a)anthracene		23.57	50	94.29	
chrysene		23.47	50	93.86	
benzo(B)fluoranthene		23.59	50	94.36	
benzo(k)fluoranthene		23.38	50	93.52	
benzo(a)pyrene		24.20	50	96.80	
indeno(1,2,3-cd)pyrene		24.01	50	96.03	
dibenzo(ah)anthracene		24.27	50	97.07	
benzo(ghi)perylene		24.59	50	98.36	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.41	50	61.63	
c-10		17.92	50	71.70	
c-12		19.21	50	76.82	
c-14		19.54	50	78.15	
c-16		20.42	50	81.70	
c-18		22.08	50	88.31	
c-19		24.82	50	99.27	
c-20		25.12	50	100.48	
1-chlorooctadecane	s	16.47	40	82.36	
c-22		25.62	50	102.46	
c-24		25.49	50	101.97	
c-26		24.98	50	99.91	
c-28		24.44	50	97.77	
c-30		22.73	50	90.93	
c-36		11.47	50	45.87	

Recovery C9-C18
76.38

Recovery C19-C36
92.33

naphthalene #2	0.09	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	0.49	0.39

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# _____ Equipment ID Used _____

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
BPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
BPH	7483	2000	20
FPAL	P07661	40	1mL

Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
OP47446 MB	NA	2	NA	DI H_2O	1000	2.0	
BS	↓	↓	↓	↓	↓	↓	
BSD	↓	↓	↓	↓	↓	↓	
MS							
MSD							
1 MC45799-1	5	2	NA	GW	900	2.0	
2 ↓ -2	5	↓	↓	WEB	920	↓	
3 MC45860-1	1			GW	880		
4 ↓ -3	2			↓	890		
5 ↓ -4	2				1000		
6 ↓ -5	1				980		
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							

Comments:

Witness Initials: IC

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47446	INITIALS	DATE	TIME
Extracted by:	FT IC	5/11/16	21:15
Spike Witness:	IC	5/11/16	21:15
Concentrated by:	PA	5/12/16	
Fractionated by:		Volume (ml):	12.5
Received by:		5/13/16	10:00

Tray # V-18

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	93032	75/80	
NEVAP (32-38 °C)	07005	38/40	
Chiller	32	13	
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	162641	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	3062895	Restek
SILICA GEL		
SODIUM SULFATE	D019	FISHER
FILTER PAPER		
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
Filtered by:	Init./Date:	

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16