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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: MC45580

Sampling Dates: 04/26/16 - 04/27/16

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: 726

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

H. (Brad) Madadian
Lab Director

Client Service contact: Robert Soll 508-481-6200

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

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Sample Summary

Anderson Mulholland and Assoc.

Job No: MC45580

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC45580-1	04/26/16	13:35	TT	04/28/16	AQ	Ground Water	RA17-GWD
MC45580-1A	04/26/16	13:35	TT	04/28/16	AQ	Ground Water	RA17-GWD
MC45580-2	04/27/16	11:30	TT	04/28/16	AQ	Ground Water	RA17-GWS
MC45580-2A	04/27/16	11:30	TT	04/28/16	AQ	Ground Water	RA17-GWS

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No:**	MC45580
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	5/3/2016 2:46:02 PM

2 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 04/26/2016 and 04/27/2016 and were received at SGS Accutest New England on 04/28/2016 properly preserved, at 1 Deg. C and intact. These Samples received a job number of MC45580. 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:** GBD3627

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45580-2MS, MC45580-2MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47292

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC45611-2AMS, MC45611-2AMSD were used as the QC samples indicated.

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(MC45580).

Summary of Hits

Job Number: MC45580
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 04/26/16 thru 04/27/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC45580-1	**RA17-GWD**					
No hits reported in this sample.						
MC45580-1A	**RA17-GWD**					
C11-C22 Aromatics (Unadj.)		81.8 J	110	80	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		81.8 J	110	80	ug/l	MADEP EPH REV 1.1
MC45580-2	**RA17-GWS**					
No hits reported in this sample.						
MC45580-2A	**RA17-GWS**					
C11-C22 Aromatics (Unadj.)		87.3 J	110	80	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		87.3 J	110	80	ug/l	MADEP EPH REV 1.1

Sample Results

Report of Analysis

SGS Accutest

Report of Analysis

Client Sample ID:	RA17-GWD		
Lab Sample ID:	MC45580-1	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	BD73471.D	1	04/28/16	AF	n/a	n/a	GBD3627
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	85%		70-130%
	2,3,4-Trifluorotoluene	98%		70-130%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	RA17-GWD		
Lab Sample ID:	MC45580-1A	**Date Sampled:**	04/26/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	DE14006.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	81.8	110	80	ug/l	J
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	81.8	110	80	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	77%		40-140%
321-60-8	2-Fluorobiphenyl	86%		40-140%
3386-33-2	1-Chlorooctadecane	45%		40-140%
580-13-2	2-Bromonaphthalene	88%		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:	RA17-GWS		
Lab Sample ID:	MC45580-2	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	BD73472.D	1	04/28/16	AF	n/a	n/a	GBD3627
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	86%		70-130%
	2,3,4-Trifluorotoluene	102%		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:	RA17-GWS		
Lab Sample ID:	MC45580-2A	**Date Sampled:**	04/27/16
Matrix:	AQ - Ground Water	**Date Received:**	04/28/16
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	DE14007.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
Run #2							

	Initial Volume	Final Volume
Run #1	880 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	87.3	110	80	ug/l	J
	C9-C18 Aliphatics	ND	110	80	ug/l	
	C19-C36 Aliphatics	ND	110	80	ug/l	
	C11-C22 Aromatics	87.3	110	80	ug/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	66%		40-140%
321-60-8	2-Fluorobiphenyl	93%		40-140%
3386-33-2	1-Chlorooctadecane	51%		40-140%
580-13-2	2-Bromonaphthalene	95%		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

PAGE 1 OF 1

SGS Accutest Quote # 802591276676

Bottle Order Control # MC45580

SGS Accutest Job # Get from NJ

Client / Reporting Information

Company Name: Anderson Mulholland Assoc. Inc
Street Address: 2700 Westchester
City: Purchase State: NY Zip:
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)

VMA VPH
BMA EPHR

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	VMA VPH	BMA EPHR	LAB USE ONLY
-1	RA17-GWD		4/26/16	1335	TT	GW	5	5									X	X	
-2	RA17-GWS		4/27/16	1130	TT	GW	5	5									X	X	
																			16C
																			21I

Turnaround Time (Business days)

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

Emergency & Rush T/A data available VIA Lablink

Approved By (SGS Accutest PM): / Date:

RUSH!

Data Deliverable Information

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

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

Comments / Special Instructions

INITIAL ASESSMENT
LABEL VERIFICATION

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	4/27/16 1500	1 Fed EX	2 FX	4-28-16	2
3		3	4		4
5		5			

Relinquished by Sampler: 1
Relinquished by: 5
Custody Seal # 634 [ ] Intact [ ] Not intact
Preserved where applicable [ ]
On Ice [x]
Cooler Temp. 1.8

MC45580: Chain of Custody
Page 1 of 3

Date: 4/11/2016 12:19:09 PM
CSR: matthews
Control #: MS-4/11/2016-2943

Delivery and Pick Up Request

THIS FORM MUST BE RETURNED WITH COOLER 4MC45580

Client: Anderson, Mulholland & Associates

Requested By: Terry Taylor **Project:** BMS: Building 5 Area

Delivery Mode: Accutest to Ship **Shipping Mode:** FED-X 2nd Day

Date and Time to: Ship **Date:** 4/14/2016 **Time:** any

Earliest Date: **Earliest Time:**

Deliver bottle order to: AMAI c/o Squibb Manufacturing, Inc.

Address: State Road, No. 3 KM 77.5

City: Humacao **State:** PR **Zipcode:** 00791

Delv Contact: Dave Linstrand **Phone:** 787-656-4924

Deliverable Package: NJ Full **TAT:** 1 & 14 (in Days)

Include with the order: ☑ Extra Labels ☑ COC's

Special Instructions:
for receipt by 4/18/16.
Include international FedEx return labels including PPQ form 550.
Please send 10 additional FedEx shipping labels.

1. Prepared / Relinquished By:	1. Date / Time	1. Received By
2. Relinquished By:	2. Date / Time	2. Received By

# of Samples	Matrix	Analyses Requested	Special Kits Requested
12	SO	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	Low Level Encore
12	SO	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
12	SO	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
14	AQ	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
14	AQ	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
14	AQ	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP],	
5	FB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	FB	BMAEPH [BMAEPHR FOR SHIPMENT DIRECT TO NE - SEND IN SEPARATE COOLER],	
5	FB	D8015LMA, SVOC [AB8270TCL20; MNAP; SIM 14DIOX; SIM NAP], P8081PESTTCL,	
5	TB	VO [FOR SHIPMENT DIRECT TO FL - SEND IN SEPERATE COOLER],	
5	SO	P8081PESTTCL,	

MC45580: Chain of Custody
Page 2 of 3

SGS Accutest Sample Receipt Summary

Job Number: MC45580 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 4/28/2016 9:30:00 AM **Delivery Method:** FedEx **Airbill #'s:** 8025 9127 6676

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

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

MC45580: Chain of Custody
Page 3 of 3

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC45580

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC45580-1	Collected: 26-APR-16 13:35 By: TT		Received: 28-APR-16 By: NT			
RA17-GWD						
MC45580-1	MADEP VPH REV 1.1	28-APR-16 14:39	AF			VMAVPHR
MC45580-2	Collected: 27-APR-16 11:30 By: TT		Received: 28-APR-16 By: NT			
RA17-GWS						
MC45580-2	MADEP VPH REV 1.1	28-APR-16 15:18	AF			VMAVPHR
MC45580-1A	Collected: 26-APR-16 13:35 By: TT		Received: 28-APR-16 By: NT			
RA17-GWD						
MC45580-1A	MADEP EPH REV 1.1	02-MAY-16 13:42	TA	29-APR-16	IC	BMAEPHR
MC45580-2A	Collected: 27-APR-16 11:30 By: TT		Received: 28-APR-16 By: NT			
RA17-GWS						
MC45580-2A	MADEP EPH REV 1.1	02-MAY-16 14:09	TA	29-APR-16	IC	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC45580
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 04/28/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC45580-1.1	VOC Ref #2	Anthony Franciosa	04/28/16 11:25	Retrieve from Storage
MC45580-1.1	Anthony Franciosa	GCBD	04/28/16 11:25	Load on Instrument
MC45580-1.1	GCBD	Anthony Franciosa	04/29/16 07:06	Unload from Instrument
MC45580-1.1	Anthony Franciosa	VOC Ref #2	04/29/16 07:06	Return to Storage
MC45580-1.5	Walk In Ref #22	Ilir Capi	04/29/16 22:41	Retrieve from Storage
MC45580-2.2	VOC Ref #2	Anthony Franciosa	04/28/16 11:25	Retrieve from Storage
MC45580-2.2	Anthony Franciosa	GCBD	04/28/16 11:25	Load on Instrument
MC45580-2.2	GCBD	Anthony Franciosa	04/29/16 07:06	Unload from Instrument
MC45580-2.2	Anthony Franciosa	VOC Ref #2	04/29/16 07:06	Return to Storage
MC45580-2.3	VOC Ref #2	Anthony Franciosa	04/28/16 11:25	Retrieve from Storage
MC45580-2.3	Anthony Franciosa	GCBD	04/28/16 11:25	Load on Instrument
MC45580-2.3	GCBD	Anthony Franciosa	04/29/16 07:06	Unload from Instrument
MC45580-2.3	Anthony Franciosa	VOC Ref #2	04/29/16 07:06	Return to Storage
MC45580-2.4	Walk In Ref #22	Ilir Capi	04/29/16 22:41	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: MC45580
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
GBD3627-MB	BD73468.D	1	04/28/16	AF	n/a	n/a	GBD3627

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

MC45580-1, MC45580-2

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	87%	70-130%
	2,3,4-Trifluorotoluene	103%	70-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45580
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
GBD3627-BSP	BD73469.D	1	04/28/16	AF	n/a	n/a	GBD3627
GBD3627-BSD	BD73470.D	1	04/28/16	AF	n/a	n/a	GBD3627

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

MC45580-1, MC45580-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	139	93	139	93	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	117	78	121	81	3	70-130/25
	C9- C10 Aromatics (Unadj.)	50	44.2	88	44.1	88	0	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	88%	87%	70-130%
	2,3,4-Trifluorotoluene	105%	102%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45580
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
MC45580-2MS	BD73473.D	1	04/28/16	AF	n/a	n/a	GBD3627
MC45580-2MSD	BD73474.D	1	04/28/16	AF	n/a	n/a	GBD3627
MC45580-2	BD73472.D	1	04/28/16	AF	n/a	n/a	GBD3627

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

MC45580-1, MC45580-2

CAS No.	Compound	MC45580-2 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	316	91	350	305	87	4	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		400	432	108	400	422	105	2	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	137	91	150	136	91	1	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45580-2	Limits
	2,3,4-Trifluorotoluene	87%	85%	86%	70-130%
	2,3,4-Trifluorotoluene	104%	100%	102%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC45580
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]
MC45580-1	BD73471.D	85	98
MC45580-2	BD73472.D	86	102
GBD3627-BSD	BD73470.D	87	102
GBD3627-BSP	BD73469.D	88	105
GBD3627-MB	BD73468.D	87	103
MC45580-2MS	BD73473.D	87	104
MC45580-2MSD	BD73474.D	85	100

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: MC45580
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GBD3627-CC3572	**Injection Date:**	04/28/16
Lab File ID:	BD73467.D	**Injection Time:**	12:02
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
GBD3627-MB	BD73468.D	04/28/16	12:41	21.24	21.24
GBD3627-BSP	BD73469.D	04/28/16	13:20	21.24	21.24
GBD3627-BSD	BD73470.D	04/28/16	13:59	21.24	21.24
MC45580-1	BD73471.D	04/28/16	14:39	21.24	21.24
MC45580-2	BD73472.D	04/28/16	15:18	21.24	21.24
MC45580-2MS	BD73473.D	04/28/16	15:58	21.24	21.24
MC45580-2MSD	BD73474.D	04/28/16	16:38	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: MC45580
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: MC45580
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
```

Initial Calibration Verification

Job Number: MC45580
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: MC45580
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: MC45580 **Sample:** GBD3627-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73467.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26190,gbd3627,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:50:15 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	516.709 E3	16.2	84	0.00
2	h	rt7/10	616.746	628.249 E3	-1.9	102	0.00
3	h	rt10/13	616.746	529.689 E3	14.1	86	0.00
4	s	fluorobenzene	680.404	663.374 E3	2.5	97	0.00
6	s	2,3,4-trifluorotoluene	521.007	536.927 E3	-3.1	100	0.00
8	h	rt20/25	800.224	609.644 E3	23.8	76	0.00
10	h	decane	800.224	578.403 E3	27.7#	72#	0.00
11	h	butylcyclohexane	800.224	670.785 E3	16.2	84	0.00
Signal #2							
14		mtbe #2	154.108	150.375 E3	2.4	94	-0.02
15		benzene #2	483.603	456.186 E3	5.7	95	0.00
16	s	fluorobenzene #2	339.253	282.622 E3	16.7	92	0.00
17		toluene #2	452.718	423.803 E3	6.4	94	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	169.659 E3	13.8	94	0.00
19		ethylbenzene #2	415.011	376.989 E3	9.2	93	0.00
20		m,p-xylene #2	498.443	457.060 E3	8.3	93	0.00
21		o-xylene #2	434.786	386.817 E3	11.0	93	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	549.875 E3	18.1	87	0.00
23		1,2,4-trimethylbenzene #2	491.876	431.833 E3	12.2	90	0.00
24		naphthalene #2	323.046	368.038 E3	-13.9	96	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	432.084 E3	12.1	90	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: MC45580
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3627-CC3572
Lab FileID: BD73467.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

bd160428vph.M Fri Apr 29 06:49:53 2016
```

Continuing Calibration Summary

Job Number: MC45580 **Sample:** GBD3627-CC3572
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** BD73475.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 17:18:23
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26190,gbd3627,,,,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: Apr 29 06:43:43 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	519.589 E3	15.8	84	0.00
2	h	rt7/10	616.746	614.334 E3	0.4	100	0.00
3	h	rt10/13	616.746	563.682 E3	8.6	91	0.00
4	s	fluorobenzene	680.404	650.343 E3	4.4	95	0.00
6	s	2,3,4-trifluorotoluene	521.007	523.481 E3	-0.5	97	0.00
8	h	rt20/25	800.224	648.429 E3	19.0	81	0.00
10	h	decane	800.224	616.564 E3	23.0	77	0.00
11	h	butylcyclohexane	800.224	692.592 E3	13.5	87	0.00
Signal #2							
14		mtbe #2	154.108	156.021 E3	-1.2	98	-0.01
15		benzene #2	483.603	456.372 E3	5.6	95	0.00
16	s	fluorobenzene #2	339.253	286.362 E3	15.6	93	0.00
17		toluene #2	452.718	425.757 E3	6.0	94	0.00
18	s	2,3,4-trifluorotoluene #2	196.856	170.238 E3	13.5	94	0.00
19		ethylbenzene #2	415.011	379.216 E3	8.6	93	0.00
20		m,p-xylene #2	498.443	459.793 E3	7.8	93	0.00
21		o-xylene #2	434.786	388.121 E3	10.7	93	0.00
22	t	1,3,5-trimethylbenzene #2	671.032	547.214 E3	18.5	86	0.00
23		1,2,4-trimethylbenzene #2	491.876	430.307 E3	12.5	90	0.00
24		naphthalene #2	323.046	402.932 E3	-24.7	106	0.00
25	h	c9-c10 arom as 1,2,4-tmb	491.650	429.172 E3	12.7	90	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: MC45580
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GBD3627-CC3572
Lab FileID: BD73475.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

bd160428vph.M Fri Apr 29 06:49:44 2016
```

GC Volatiles

Raw Data

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:45:22 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	32067407	47.130	ppb	
Spiked Amount 50.000		Recovery =	94.26%		
6) s 2,3,4-trifluorotoluene	21.242	25609971	49.155	ppb	
Spiked Amount 50.000		Recovery =	98.31%		
16) s fluorobenzene #2	16.427	13845713	40.812	ppb	
Spiked Amount 50.000		Recovery =	81.62%		
18) s 2,3,4-trifluorotoluen...	21.242	8353497	42.435	ppb	
Spiked Amount 50.000		Recovery =	84.87%		
Target Compounds					
1) h rt5.5-7	7.470	386419	0.627	ppb	m
2) h rt7/10	9.920	391018	0.634	ppb	m
3) h rt10/13	15.200	2372691	3.847	ppb	m
8) h rt20/25	22.840	10139927	12.671	ppb	
24) naphthalene #2	28.766f	147288	0.963	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11578008	23.549	ppb	

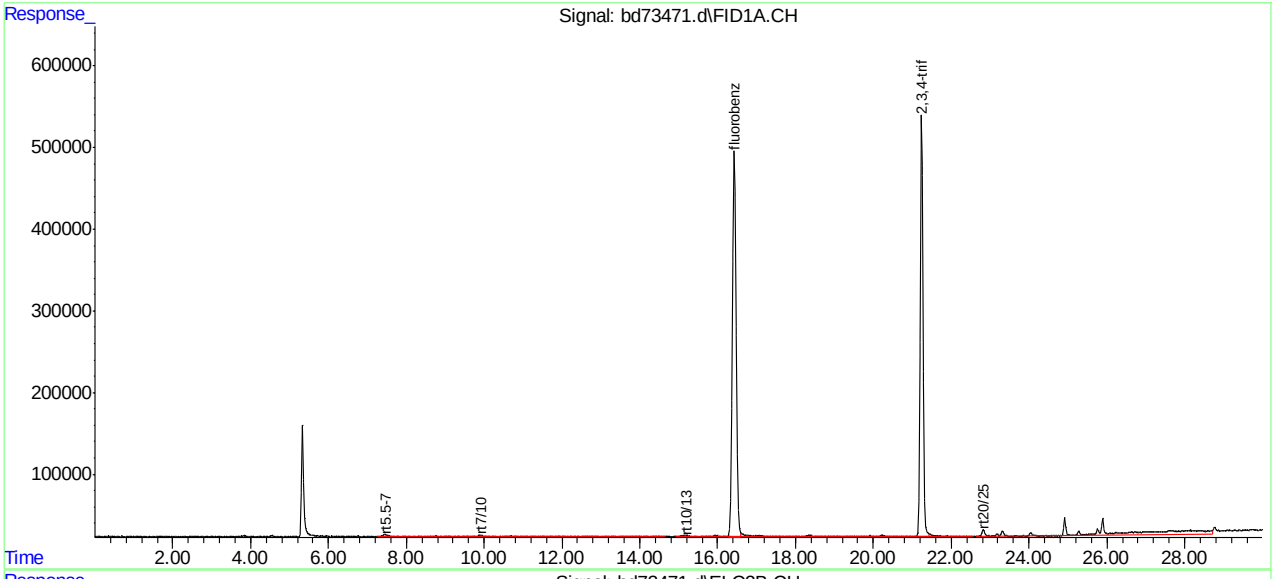
(f)=RT Delta > 1/2 Window (m)=manual int.

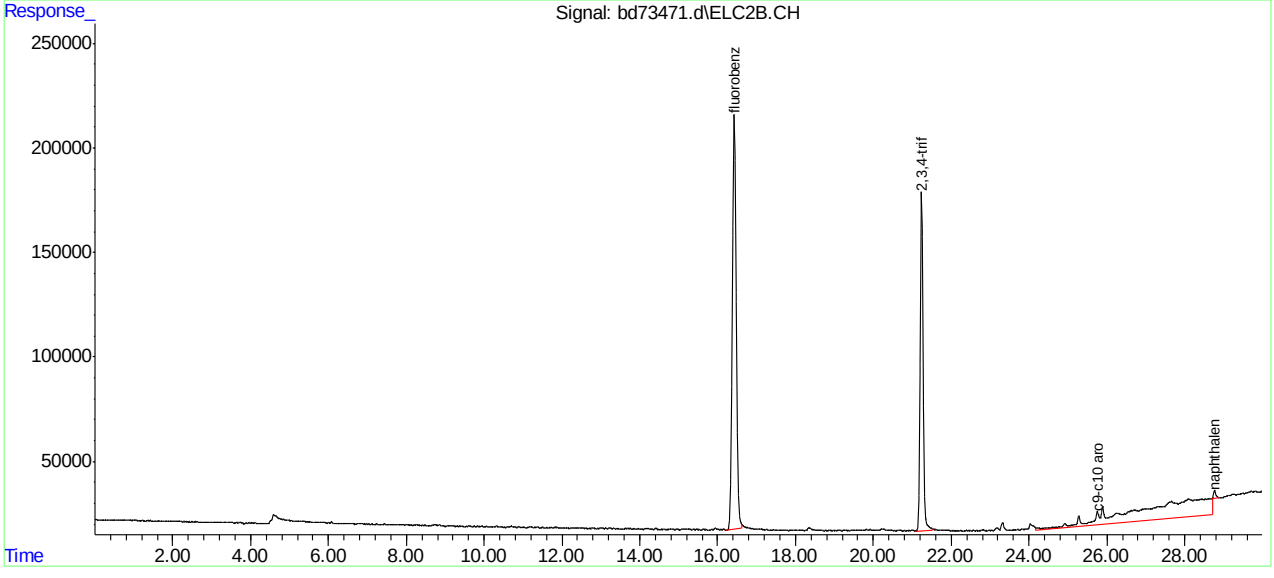
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

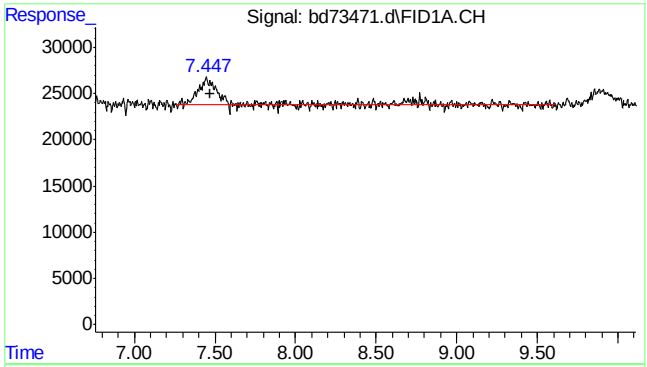
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 06:45:22 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



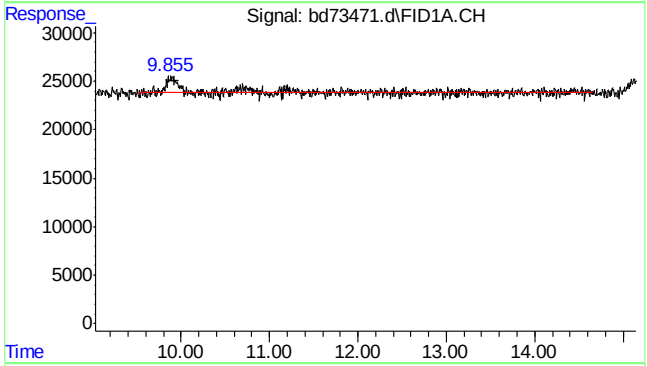


SGS ACCUTEST MC45580



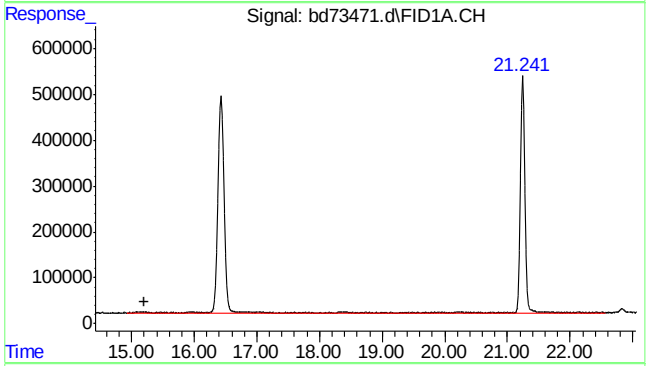
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 386419
Conc: 0.63 ppb m



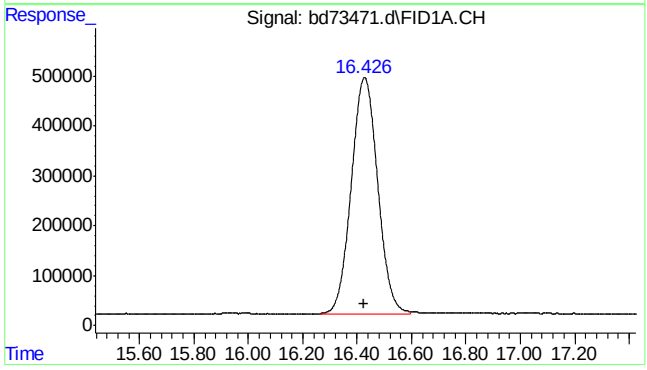
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 391018
Conc: 0.63 ppb m



#3 rt10/13

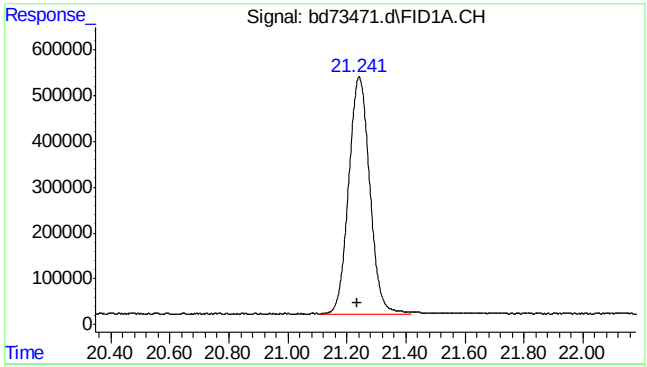
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 2372691
Conc: 3.85 ppb m



#4 fluorobenzene

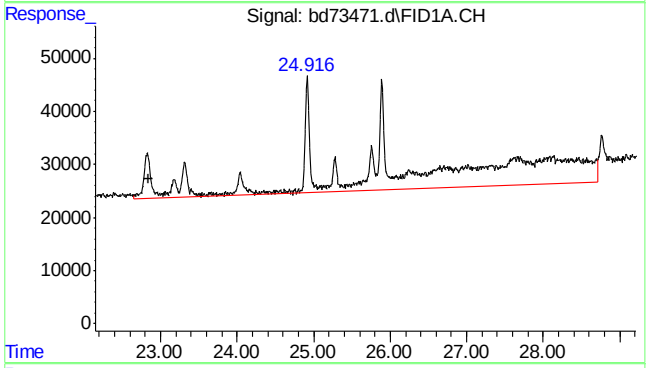
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 32067407
Conc: 47.13 ppb

SGS ACCUTEST MC45580



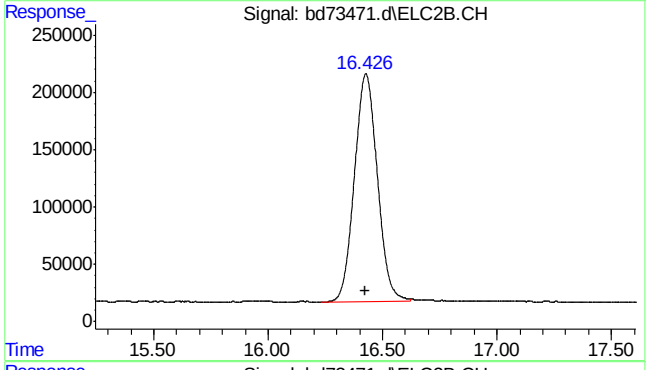
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 25609971
Conc: 49.15 ppb



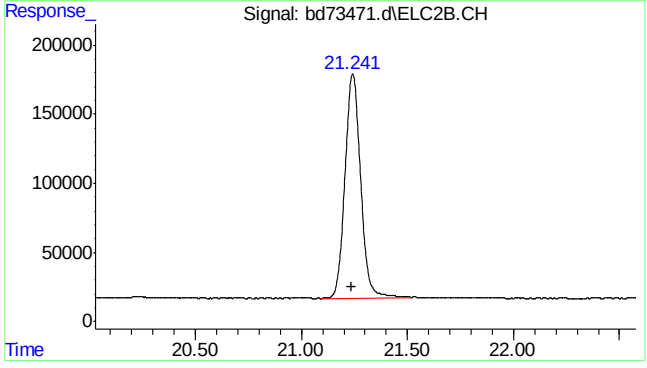
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 10139927
Conc: 12.67 ppb



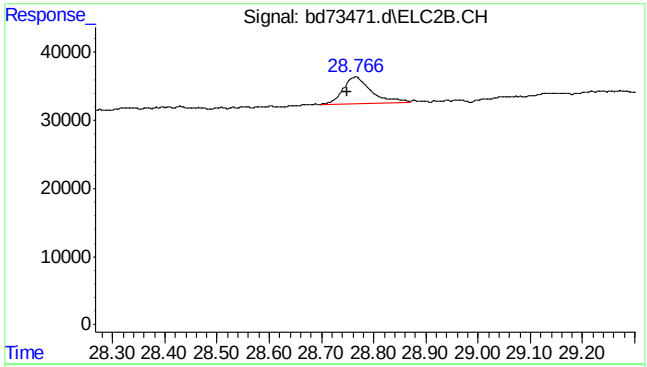
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 13845713
Conc: 40.81 ppb



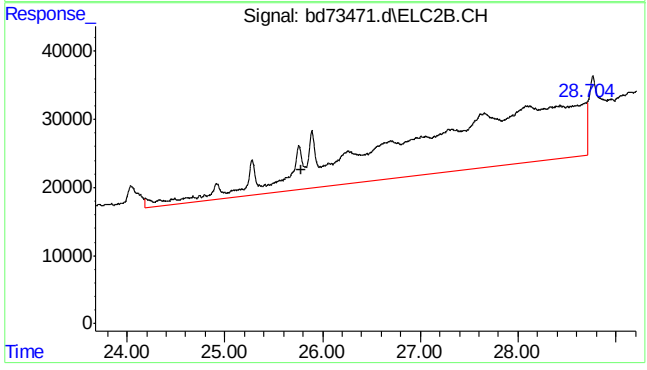
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8353497
Conc: 42.43 ppb



#24 naphthalene #2

R.T.: 28.766 min
Delta R.T.: 0.016 min
Response: 147288
Conc: 0.96 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11578008
Conc: 23.55 ppb

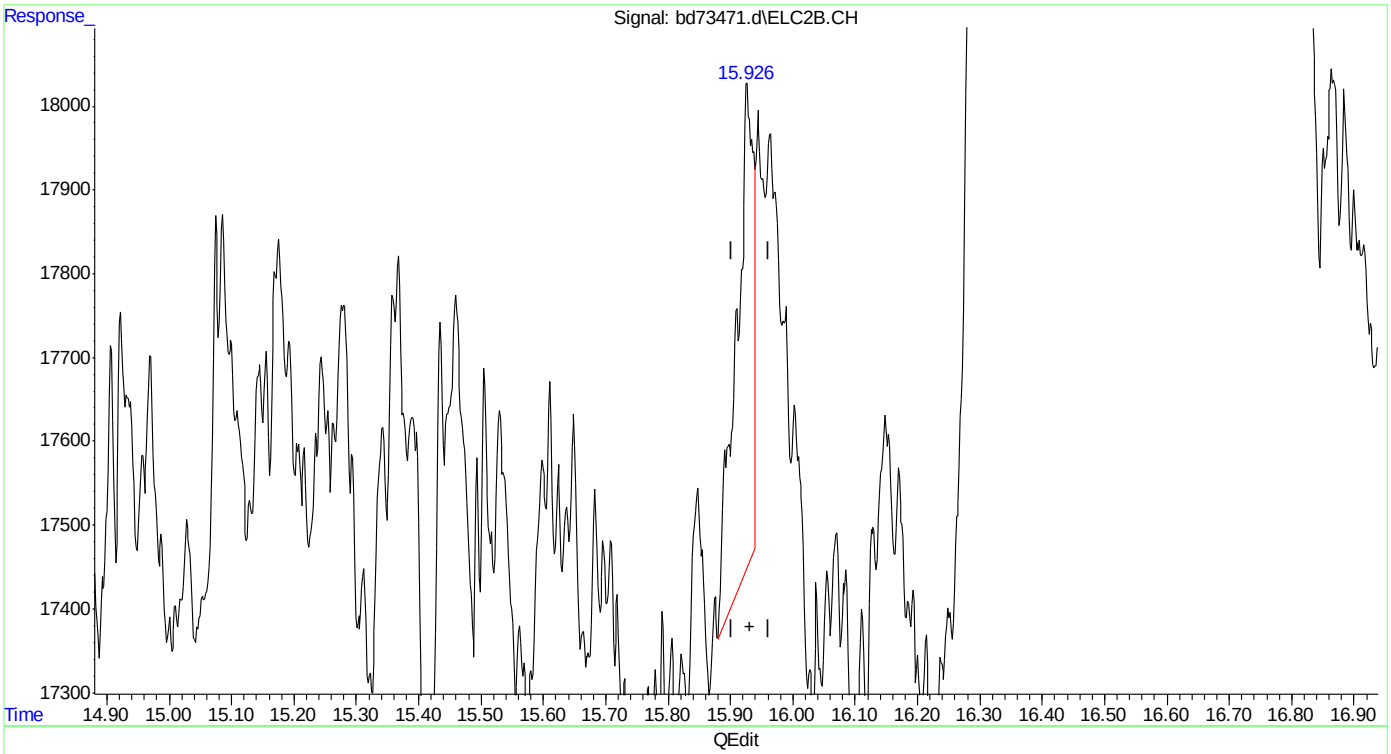
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.023 ppb
response 10934

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:44:51 2016

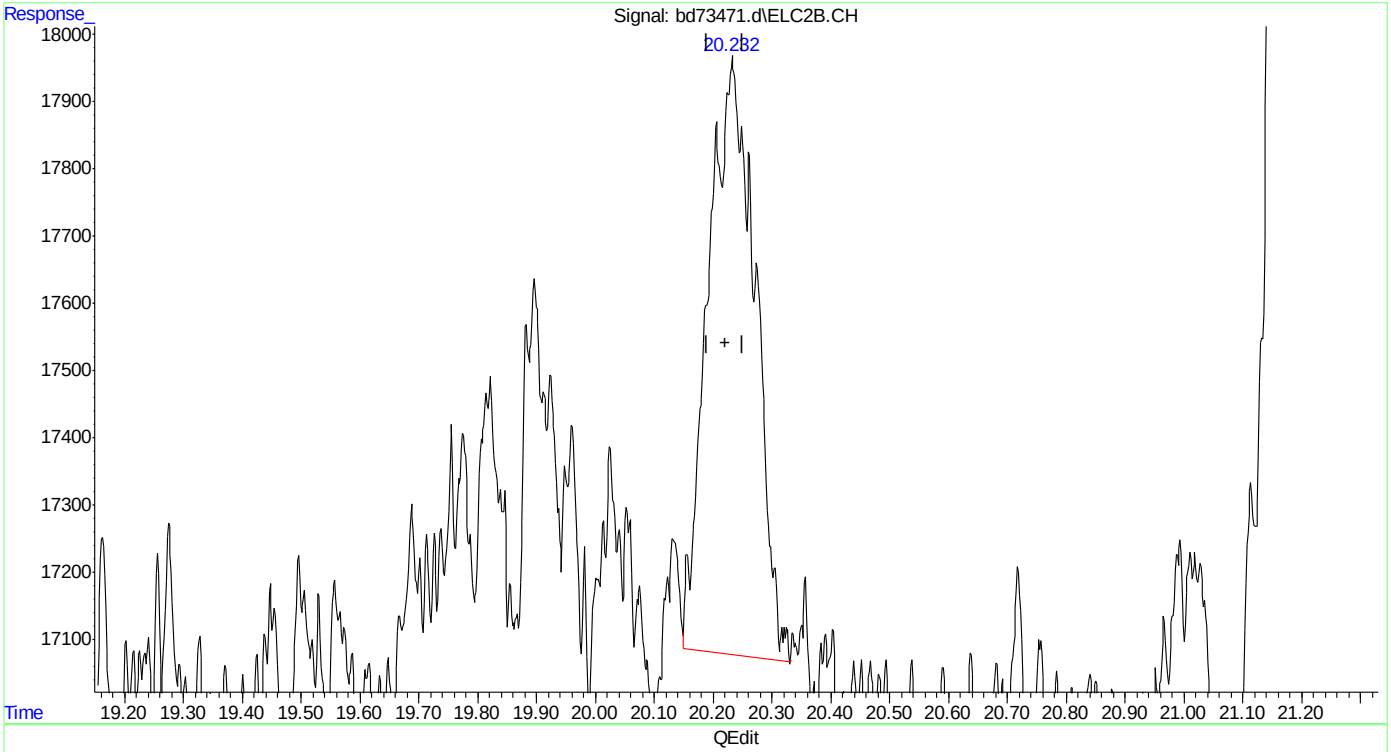
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.109 ppb
response 49276

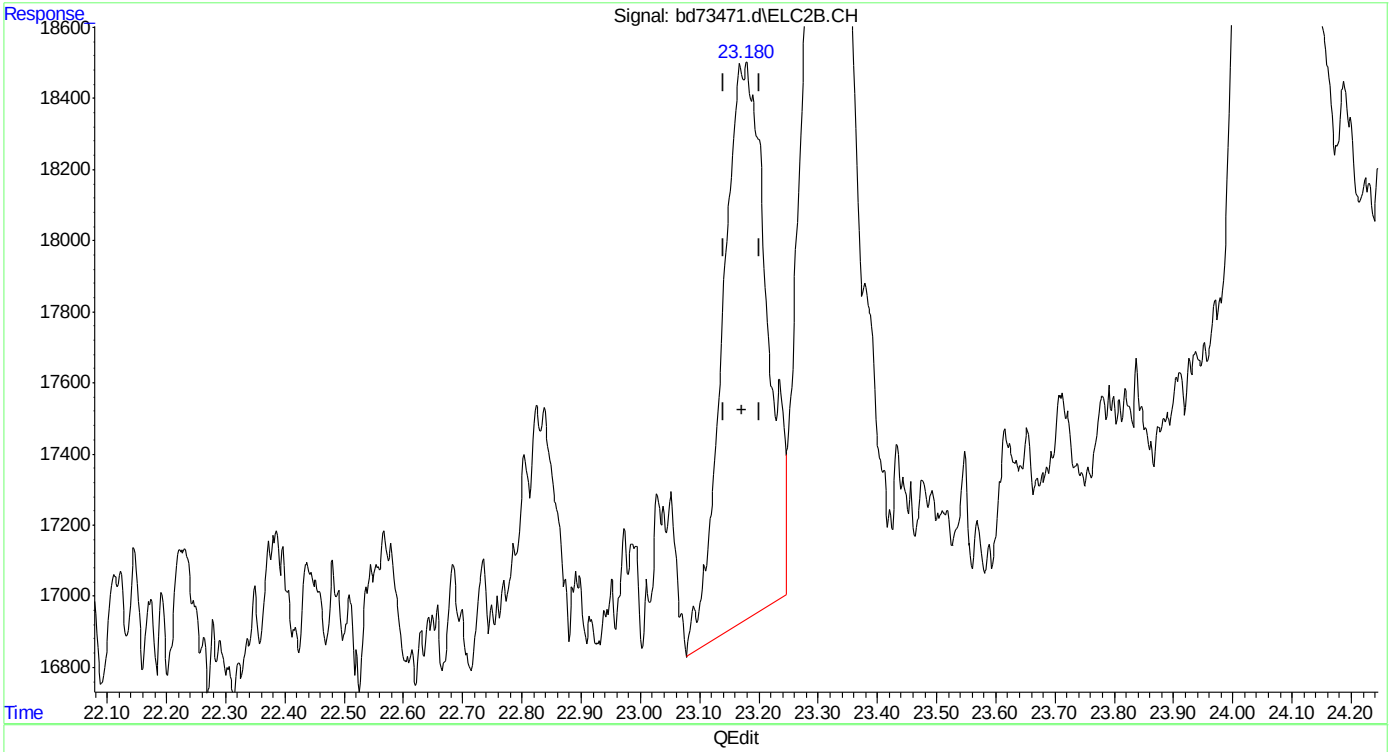
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:44:56 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
23.179min 0.196 ppb
response 81219

(+) = Expected Retention Time

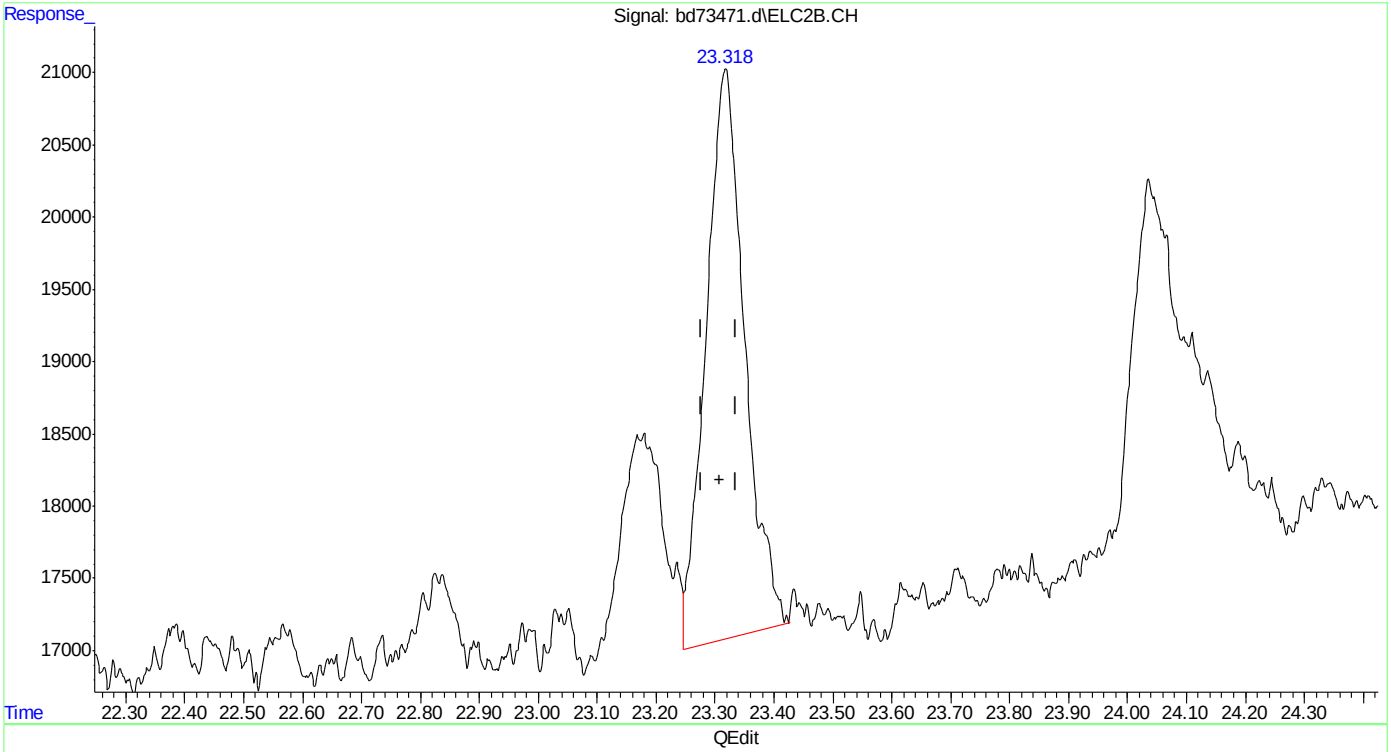
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.362 ppb
response 180394

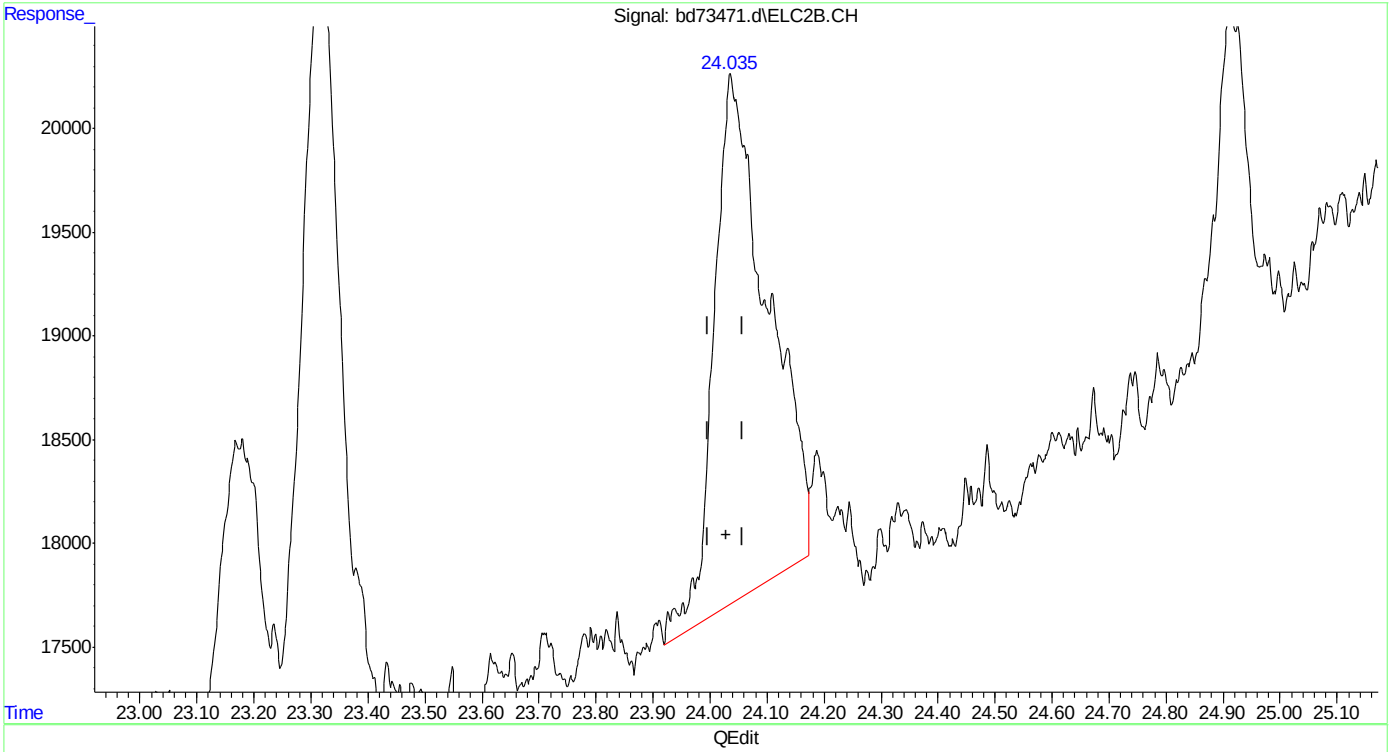
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
24.036min 0.381 ppb
response 165623

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:45:06 2016

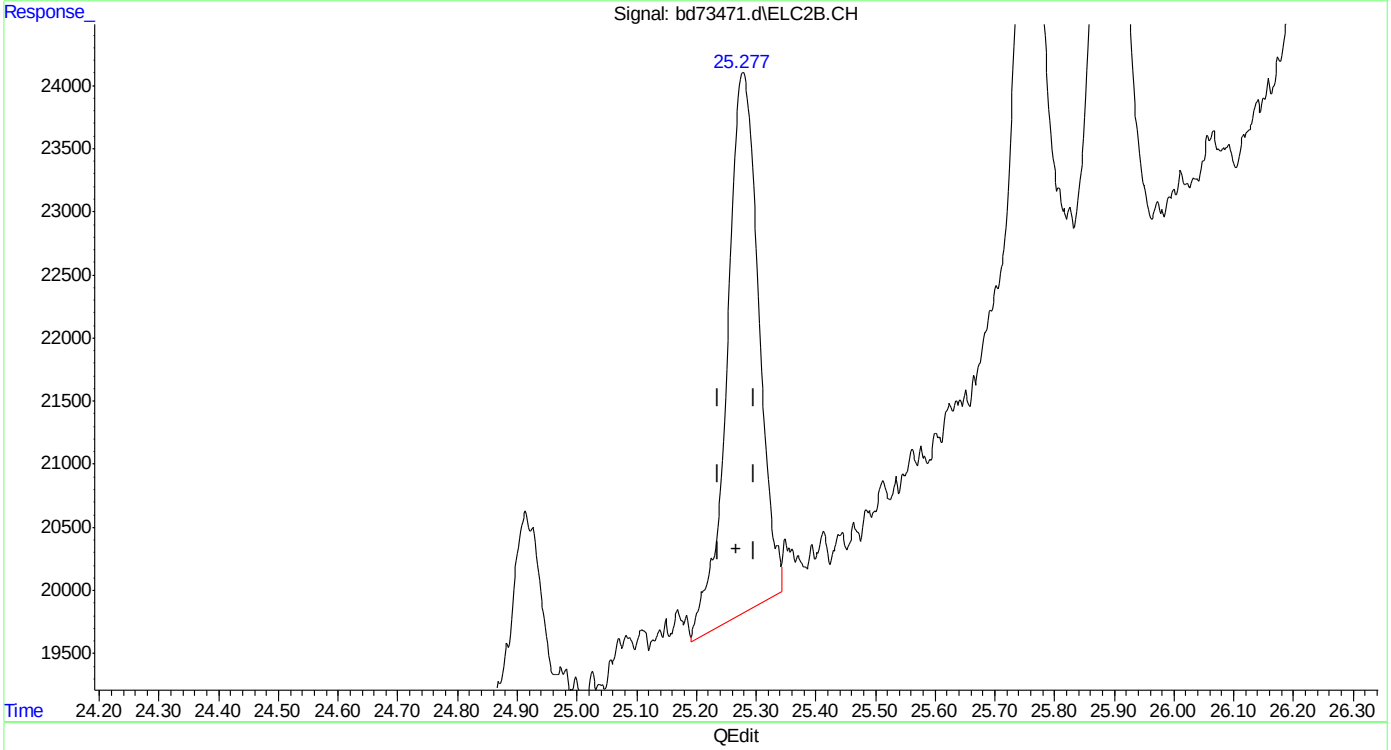
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :



(22) 1,3,5-trimethylbenzene #2 (t)
25.278min 0.233 ppb
response 156537

(+) = Expected Retention Time

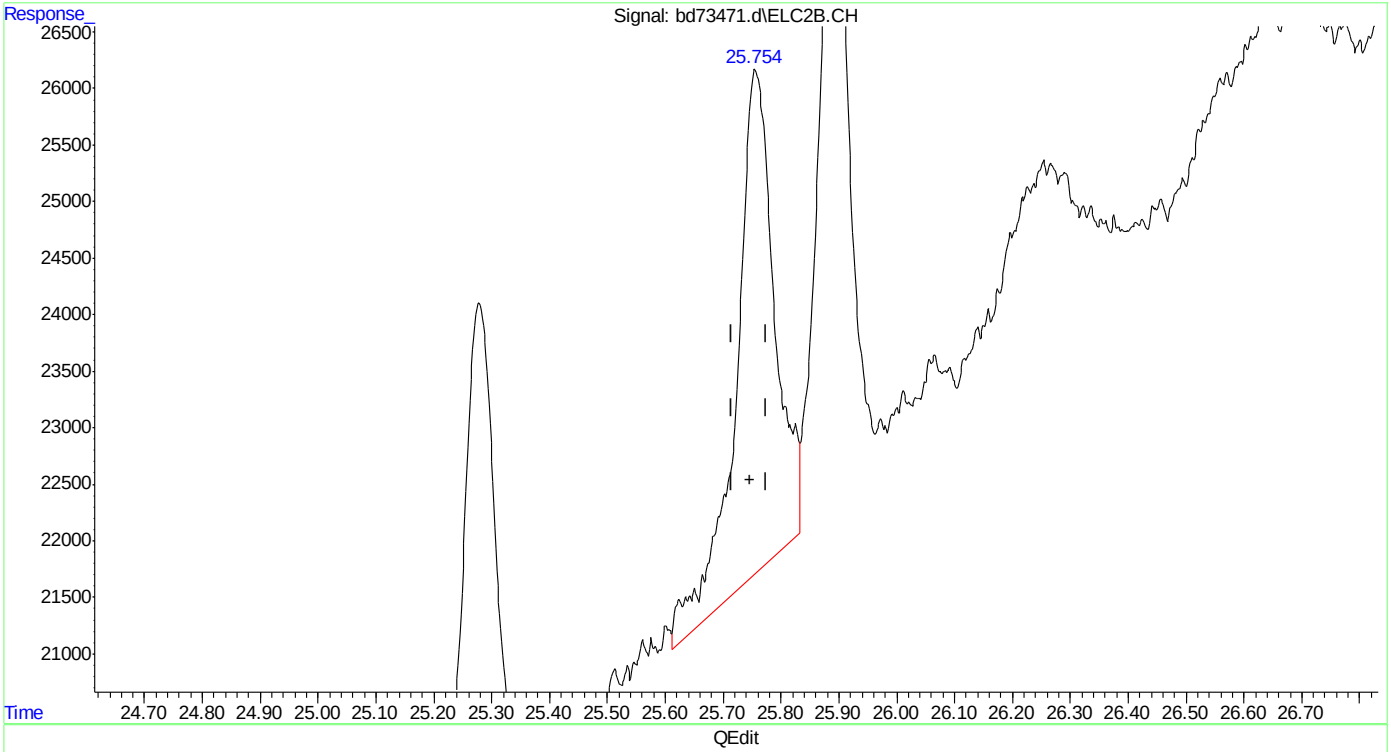
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
25.756min 0.421 ppb
response 206956

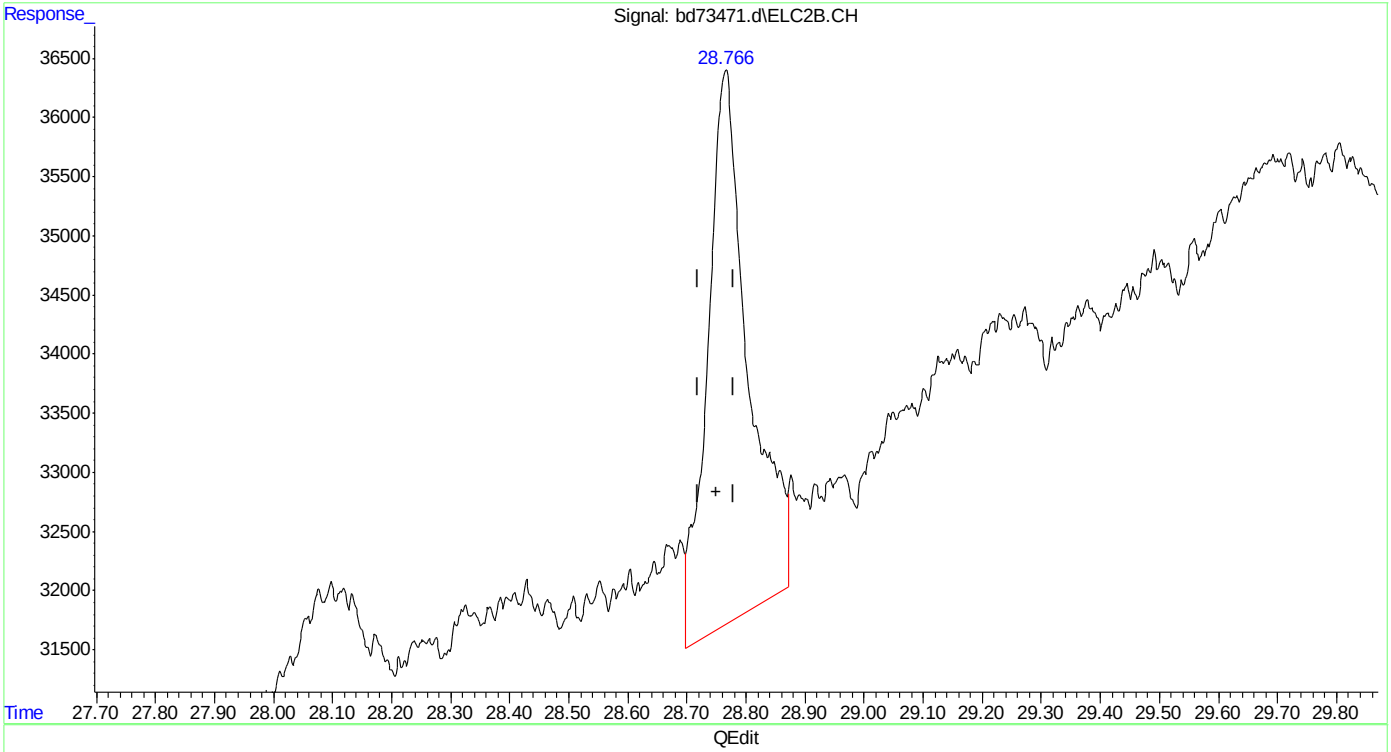
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:45:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 14:39:15
Operator : tonyf
Sample : mc45580-1,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 1.178 ppb
response 225756

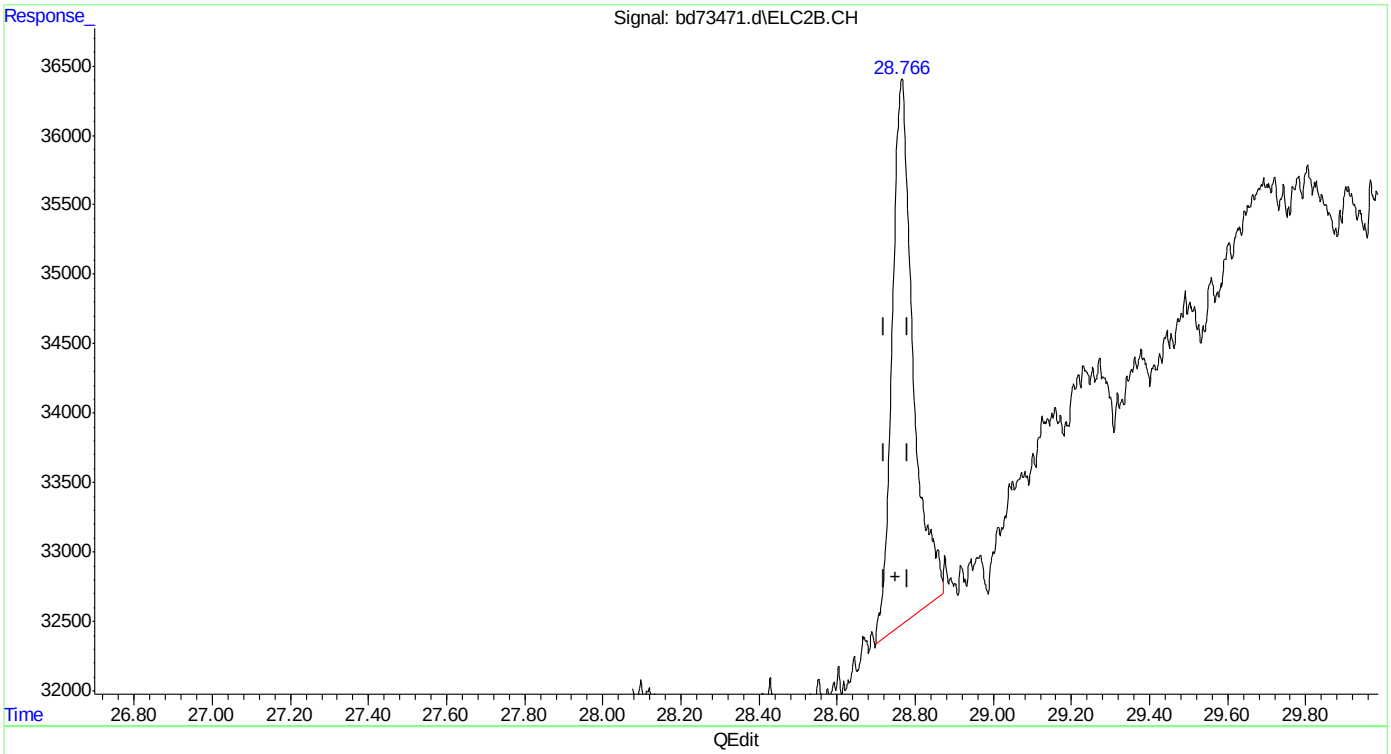
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:45:17 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73471.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 14:39:15
Operator  : tonyf
Sample    : mc45580-1,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 29 06:40:51 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.963 ppb m

response 147288

(+) = Expected Retention Time

bd160428vph.M Fri Apr 29 06:45:26 2016

SGS ACCUTEST MC45580

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:47:34 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	32994061	48.492 ppb
Spiked Amount 50.000		Recovery	= 96.98%
6) s 2,3,4-trifluorotoluene	21.243	26497919	50.859 ppb
Spiked Amount 50.000		Recovery	= 101.72%
16) s fluorobenzene #2	16.428	14138298	41.675 ppb
Spiked Amount 50.000		Recovery	= 83.35%
18) s 2,3,4-trifluorotoluen...	21.243	8444128	42.895 ppb
Spiked Amount 50.000		Recovery	= 85.79%
Target Compounds			
1) h rt5.5-7	7.470	597572	0.969 ppb m
2) h rt7/10	9.920	591519	0.959 ppb m
3) h rt10/13	15.200	1393015	2.259 ppb m
8) h rt20/25	22.840	8982510	11.225 ppb
24) naphthalene #2	28.771f	69121	0.749 ppb m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11383936	23.155 ppb

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

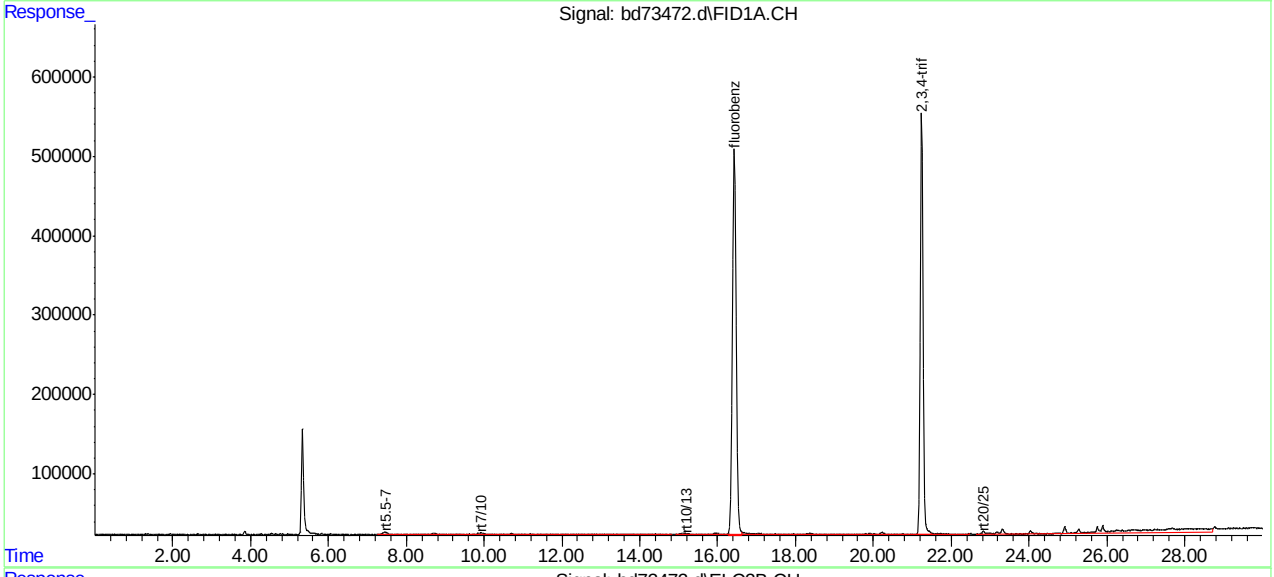
SGS ACCUTEST MC45580

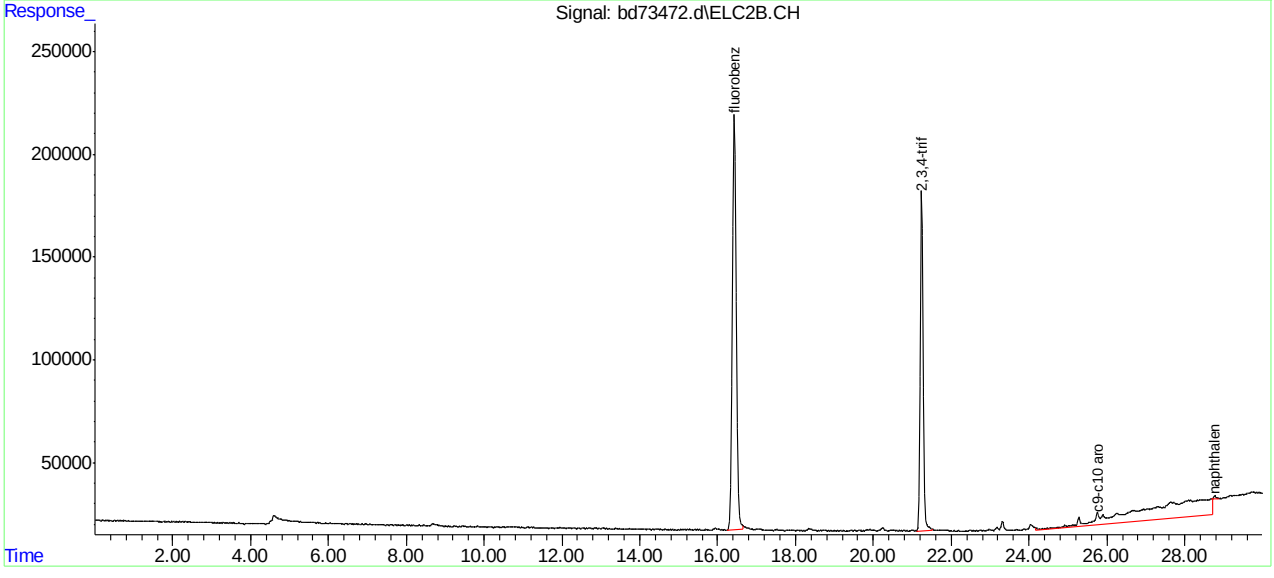
Quantitation Report (QT Reviewed)

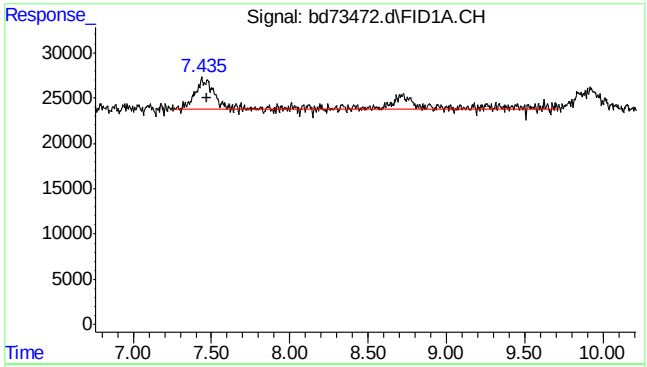
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 06:47:34 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :

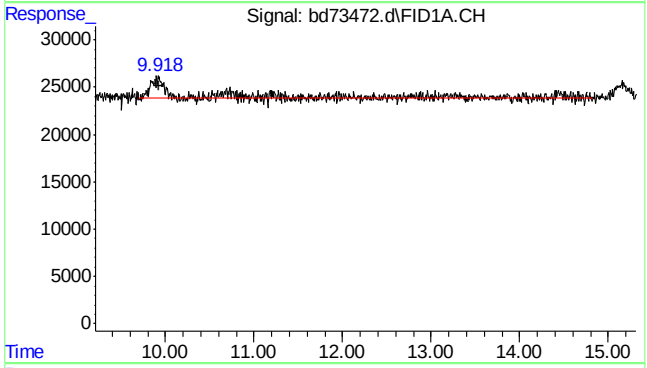






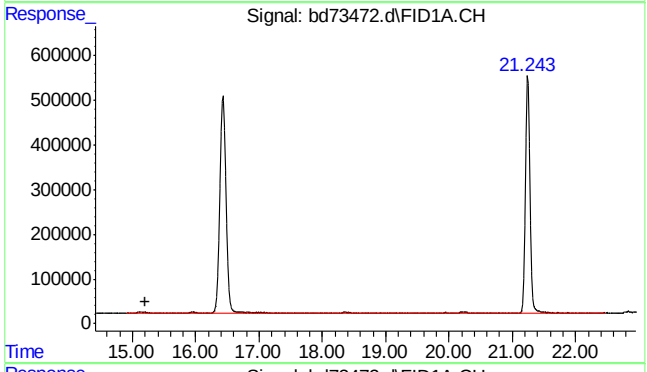
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 597572
Conc: 0.97 ppb m



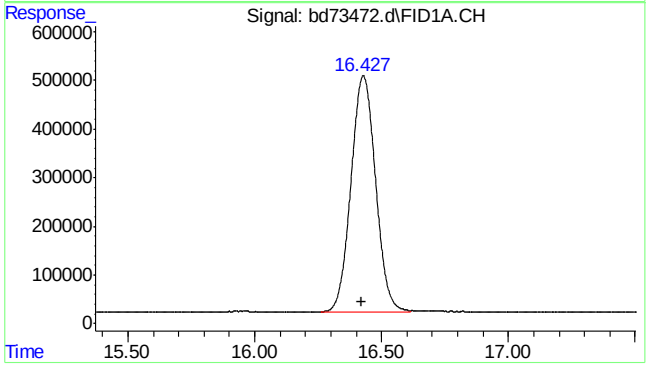
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 591519
Conc: 0.96 ppb m



#3 rt10/13

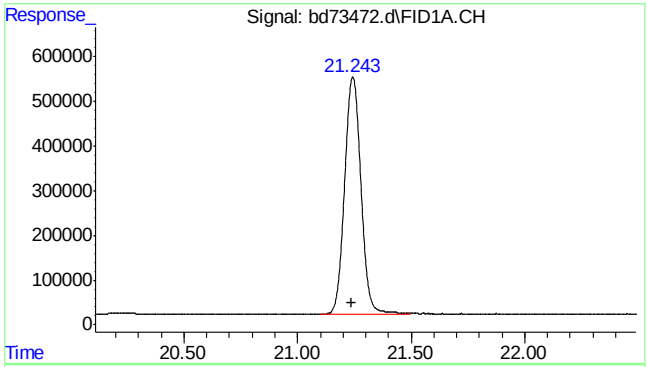
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1393015
Conc: 2.26 ppb m



#4 fluorobenzene

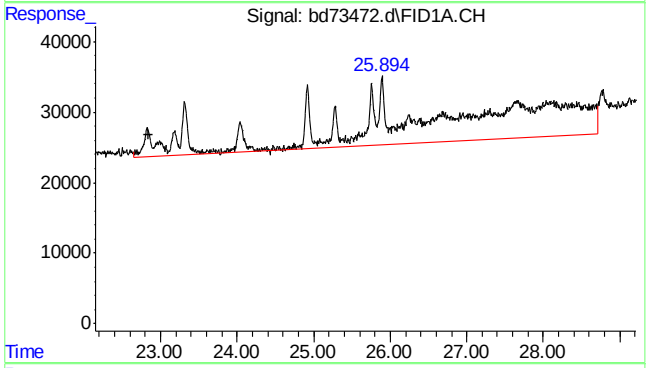
R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 32994061
Conc: 48.49 ppb

SGS ACCUTEST MC45580



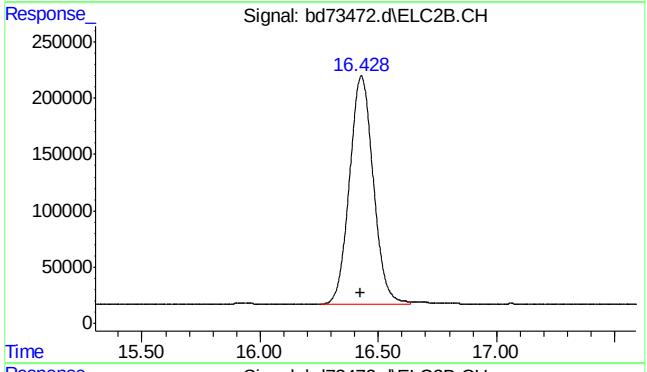
#6 2,3,4-trifluorotoluene

R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 26497919
Conc: 50.86 ppb



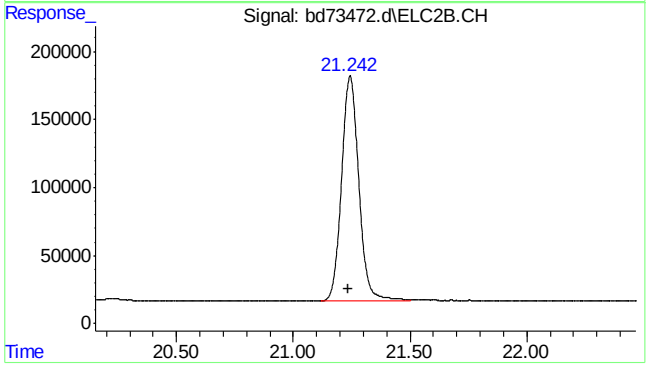
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 8982510
Conc: 11.23 ppb



#16 fluorobenzene #2

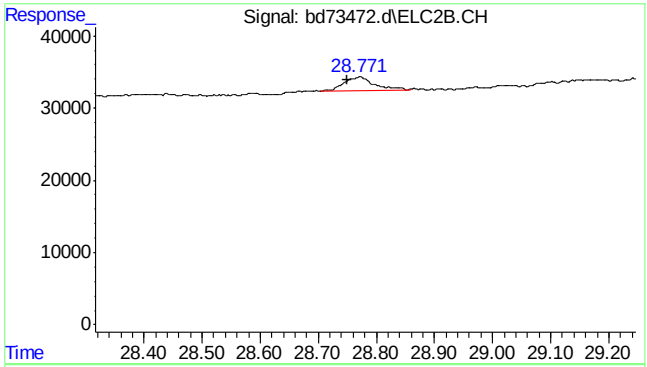
R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 14138298
Conc: 41.67 ppb



#18 2,3,4-trifluorotoluene #2

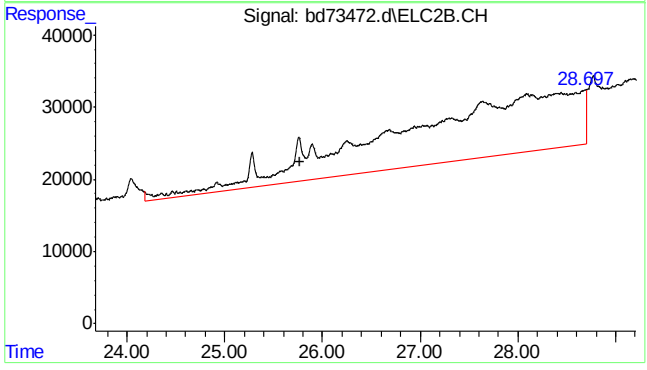
R.T.: 21.243 min
Delta R.T.: 0.006 min
Response: 8444128
Conc: 42.89 ppb

SGS ACCUTEST MC45580



#24 naphthalene #2

```
      R.T.:   28.771 min
Delta R.T.:    0.021 min
  Response:     69121
      Conc:   0.75 ppb m
```



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

```
      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response:  11383936
      Conc:  23.15 ppb
```

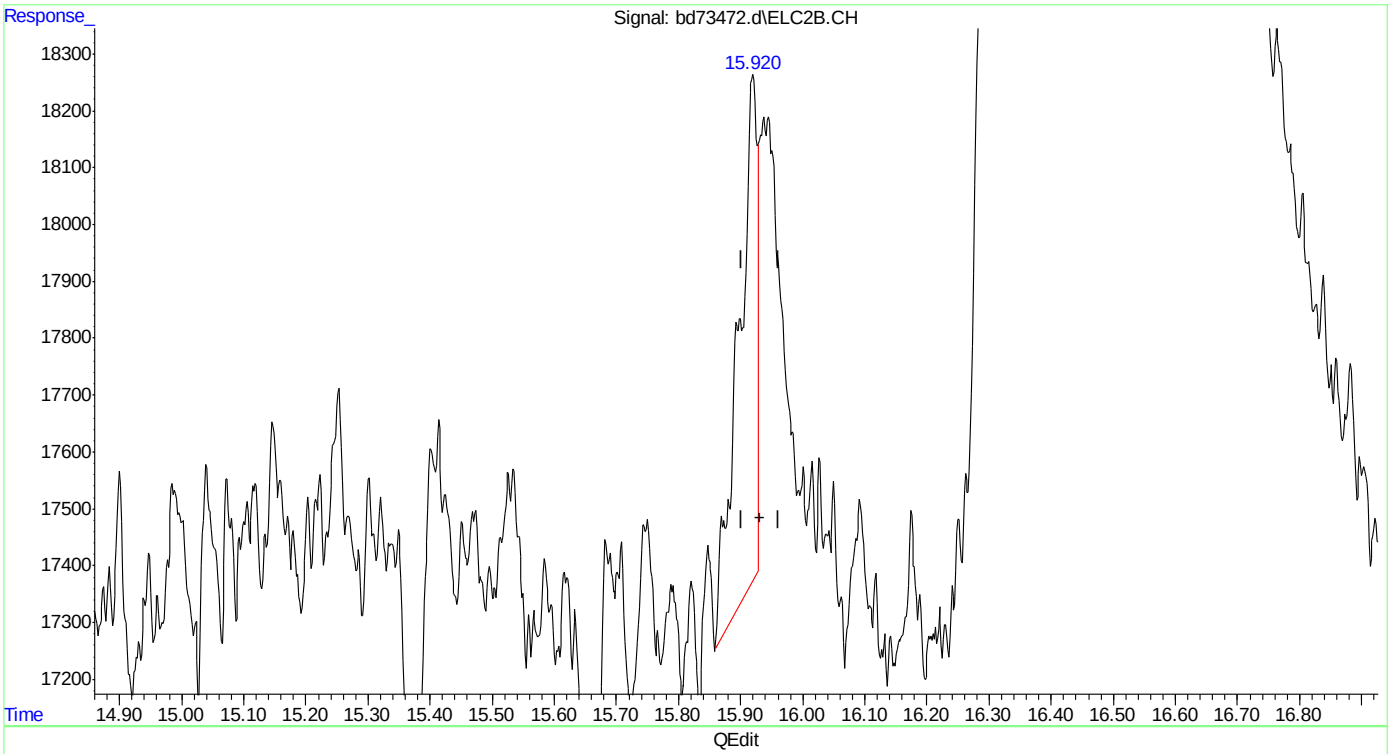

SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
15.920min 0.037 ppb
response 18082

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:47:03 2016

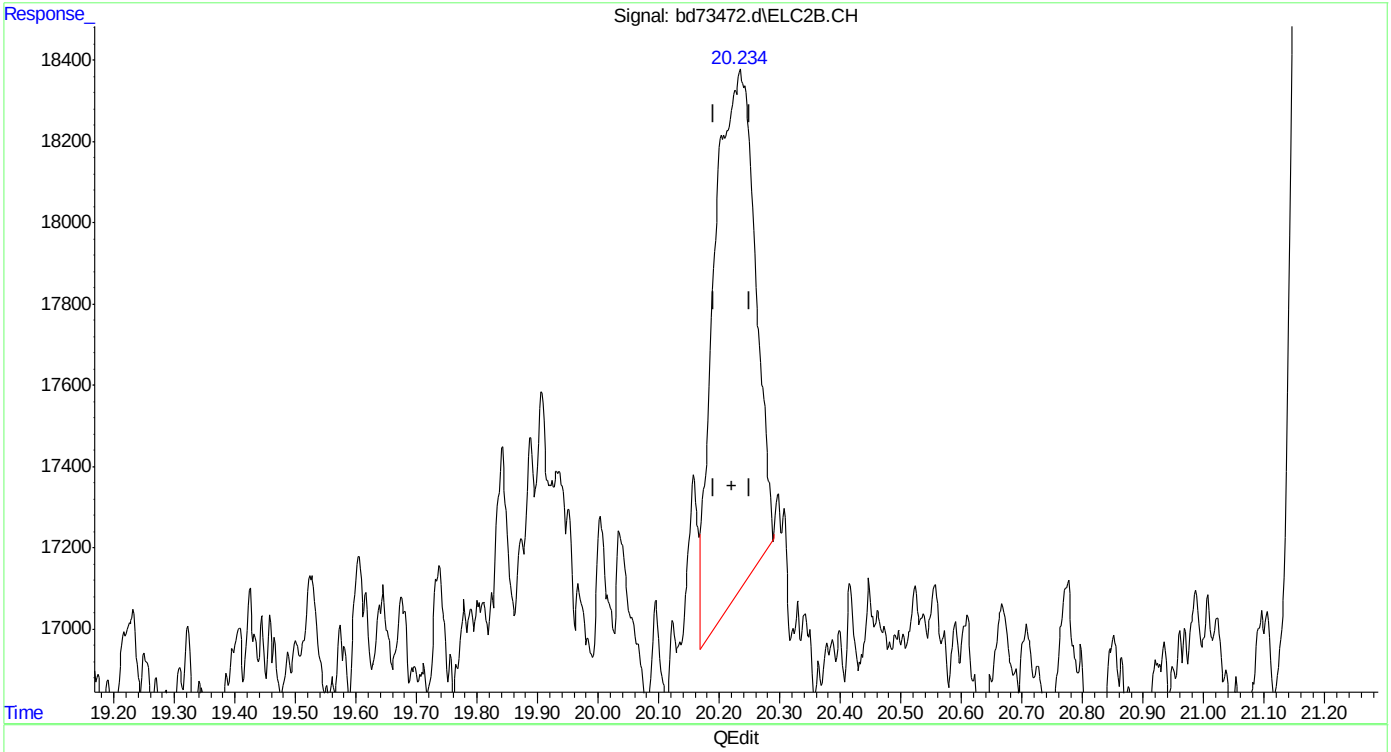
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
20.235min 0.133 ppb
response 60163

(+) = Expected Retention Time

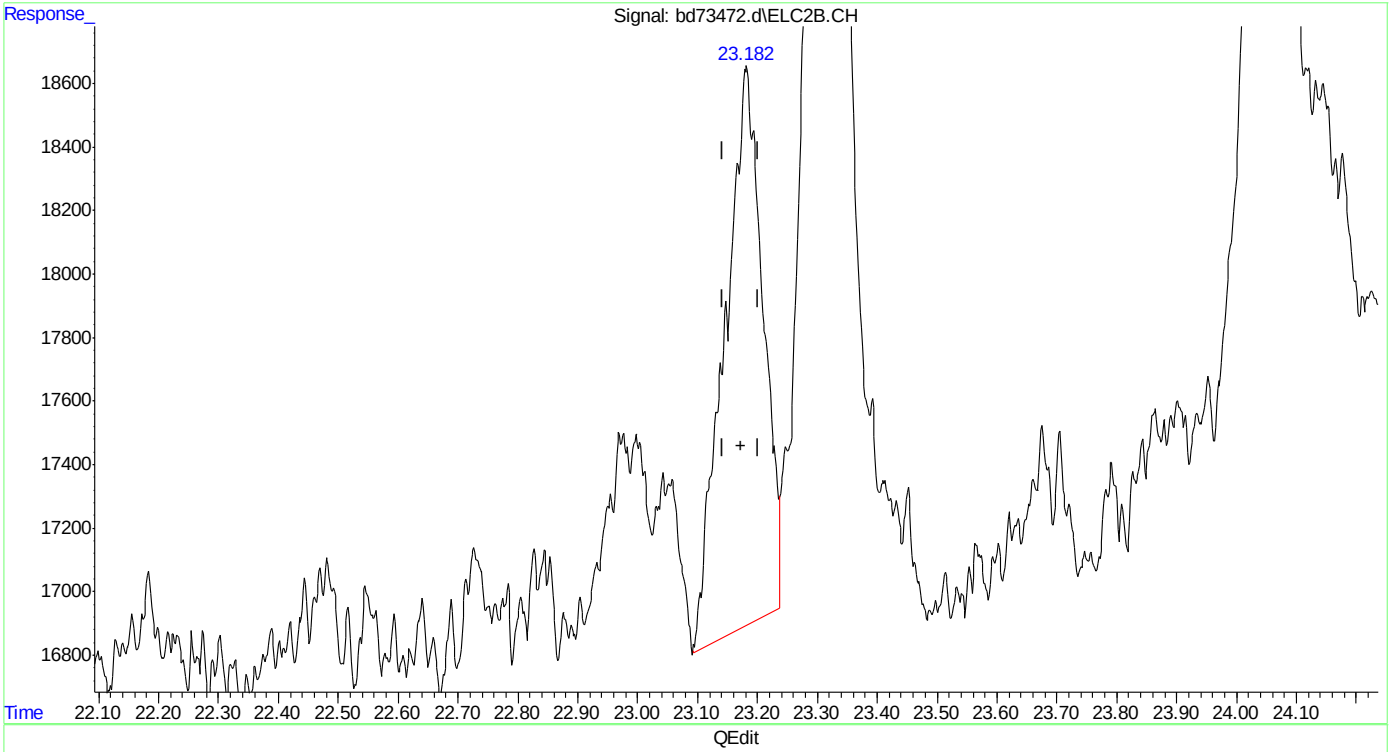
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.188 ppb
response 78192

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:47:11 2016

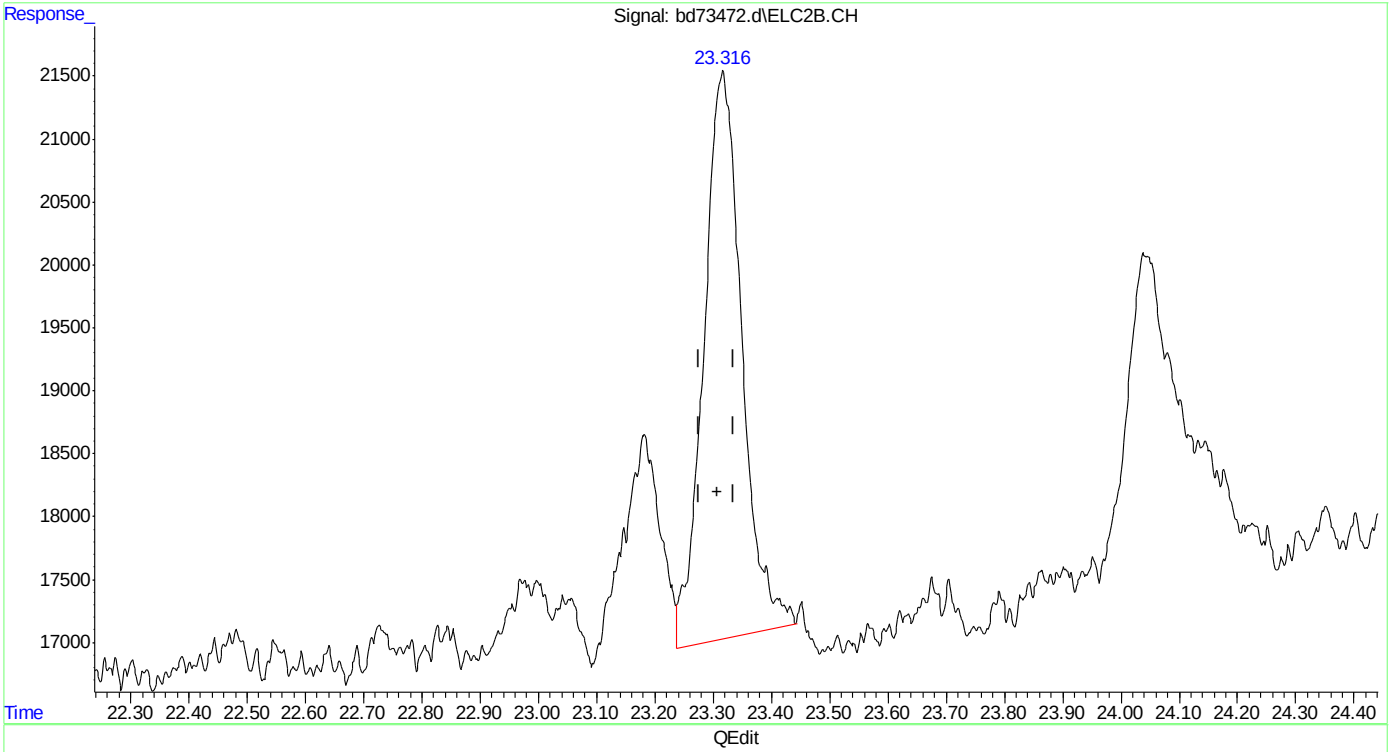
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
23.316min 0.411 ppb
response 204661

(+) = Expected Retention Time

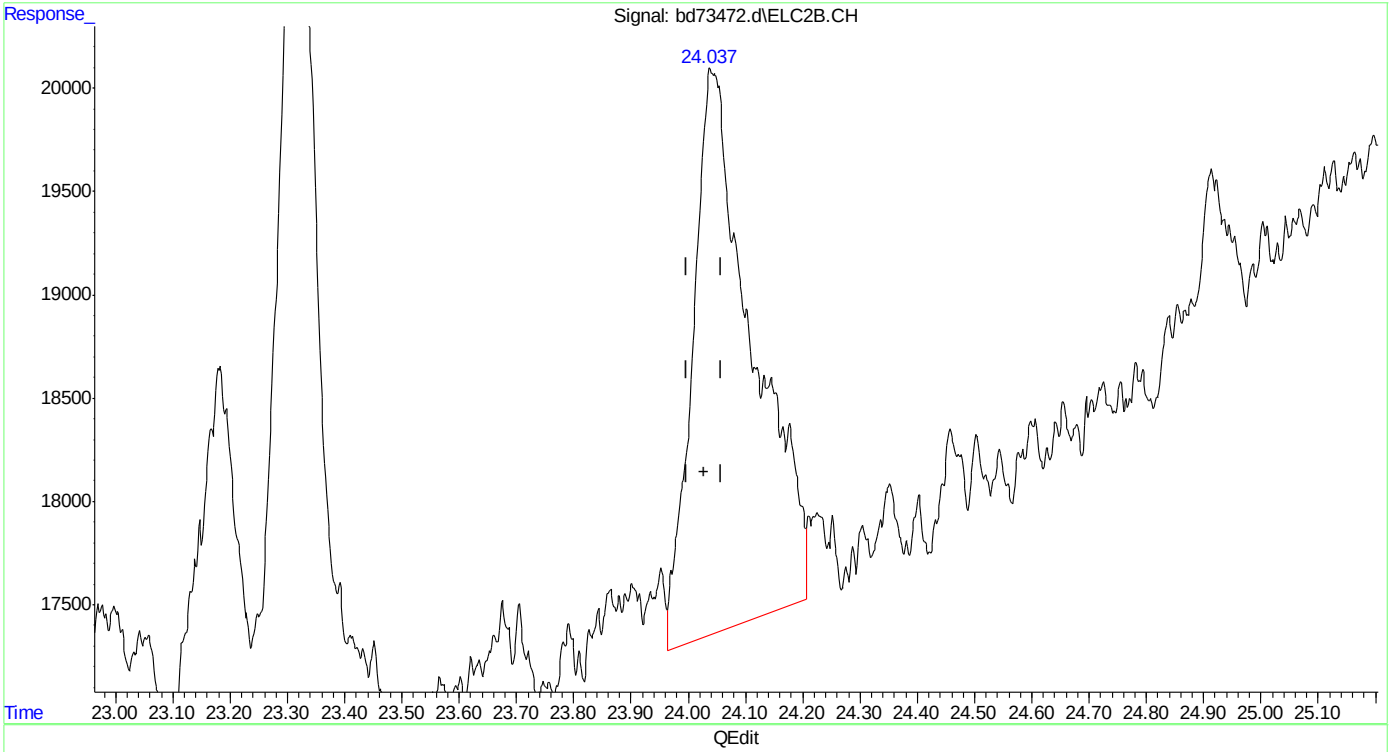
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.454 ppb
response 197427

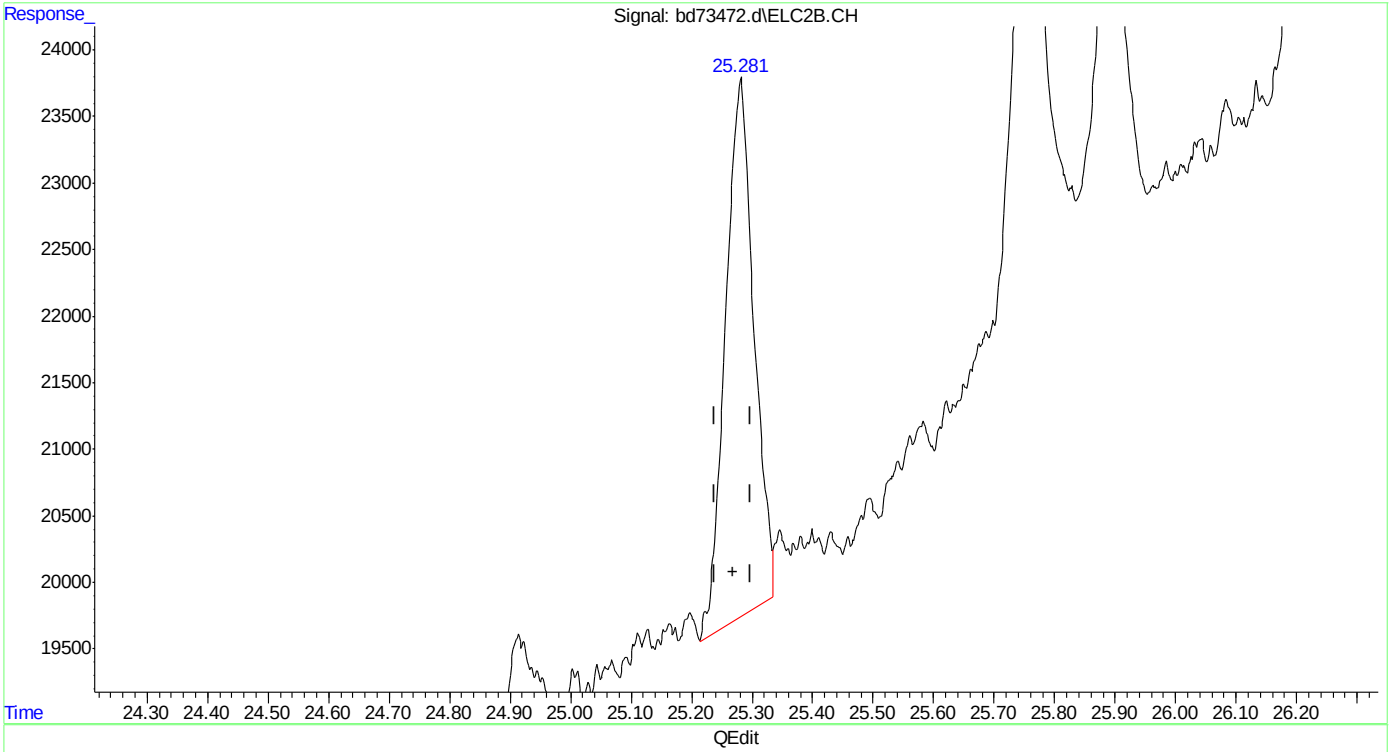
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:47:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :



(22) 1,3,5-trimethylbenzene #2 (t)
25.281min 0.196 ppb
response 131757

(+) = Expected Retention Time

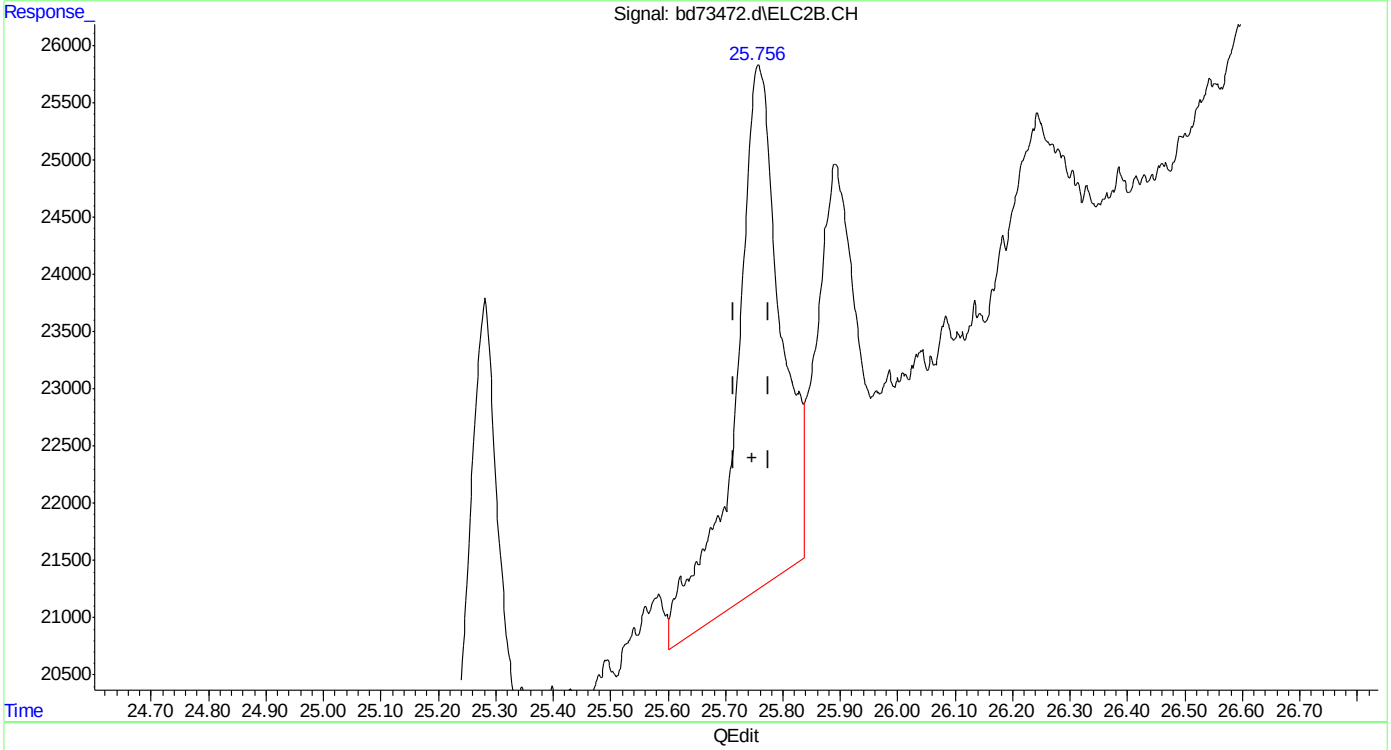
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.511 ppb
response 251209

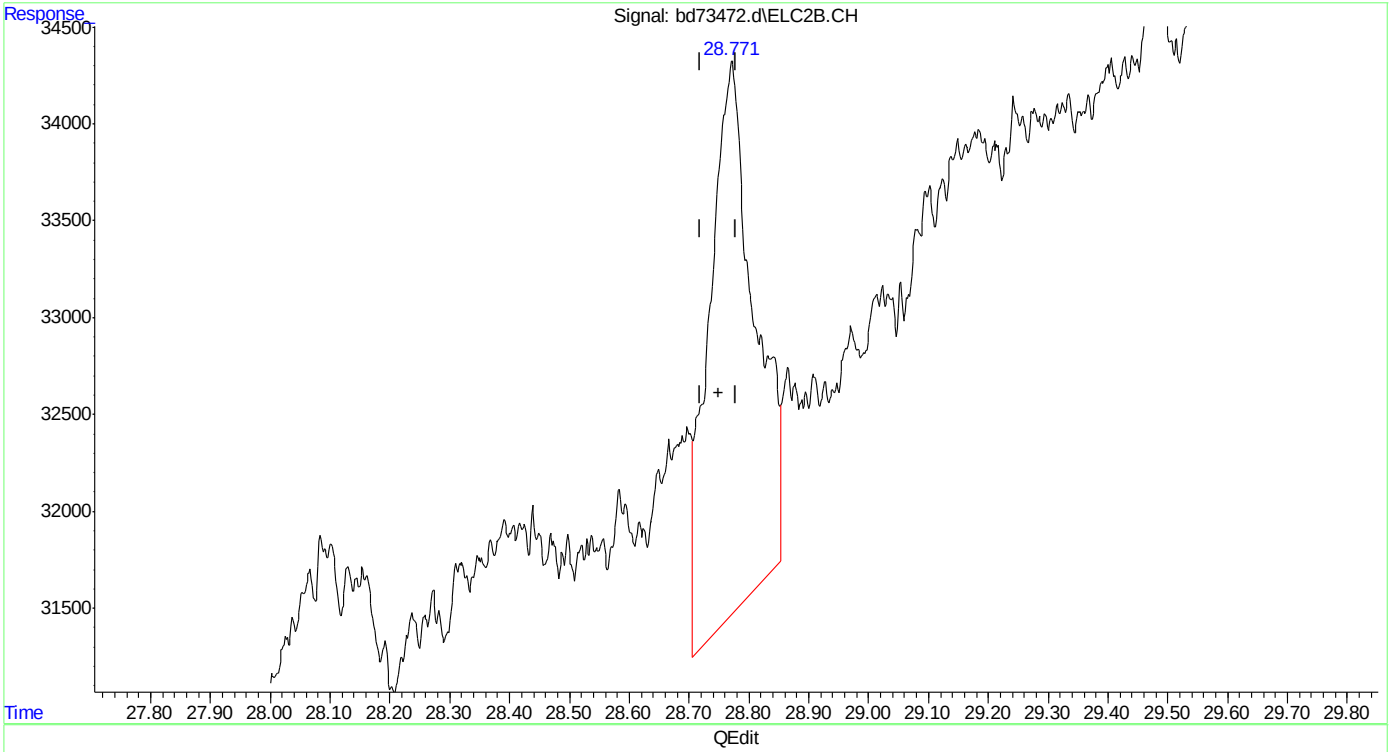
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.974 ppb
response 151288

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:47:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73472.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:18:58
Operator : tonyf
Sample : mc45580-2,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:40:56 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 0.749 ppb m
response 69121

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:47:36 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 13:46:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	33393819	49.079	ppb	
Spiked Amount 50.000		Recovery =	98.16%		
6) s 2,3,4-trifluorotoluene	21.242	26750559	51.344	ppb	
Spiked Amount 50.000		Recovery =	102.69%		
16) s fluorobenzene #2	16.426	14165803	41.756	ppb	
Spiked Amount 50.000		Recovery =	83.51%		
18) s 2,3,4-trifluorotoluen...	21.242	8528351	43.323	ppb	
Spiked Amount 50.000		Recovery =	86.65%		
Target Compounds					
1) h rt5.5-7	7.470	394048	0.639	ppb	m
2) h rt7/10	9.920	502578	0.815	ppb	m
3) h rt10/13	15.200	1128012	1.829	ppb	m
8) h rt20/25	22.840	9844522	12.302	ppb	
17) toluene #2	20.235	25391	0.056	ppb	
24) naphthalene #2	28.774f	110887	0.863	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	11315550	23.015	ppb	

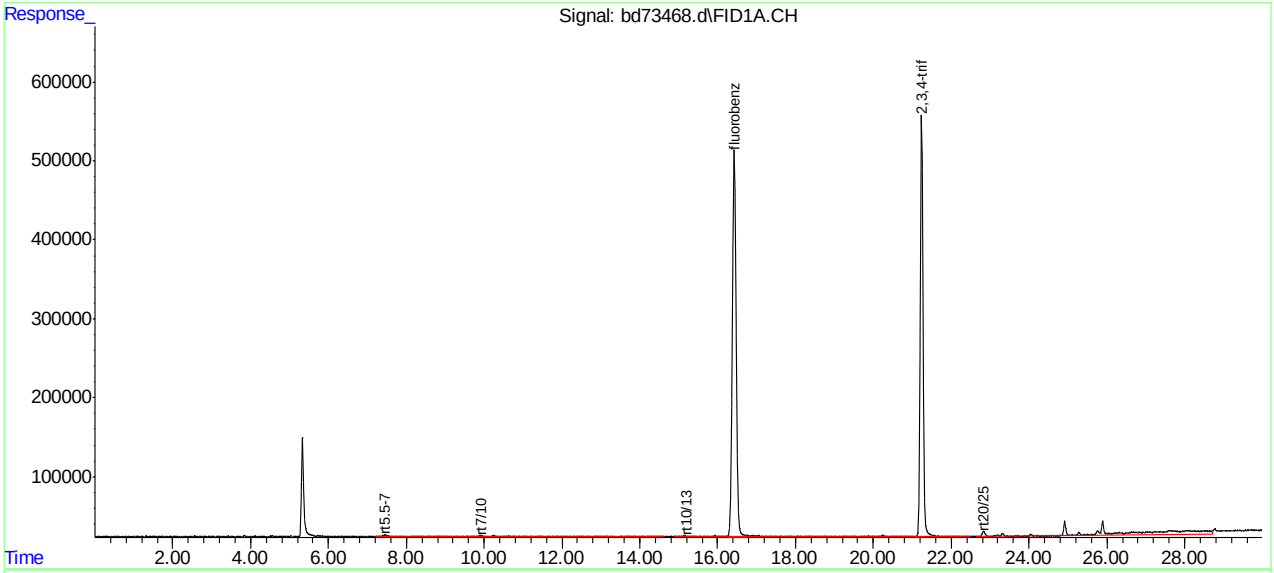
(f)=RT Delta > 1/2 Window (m)=manual int.

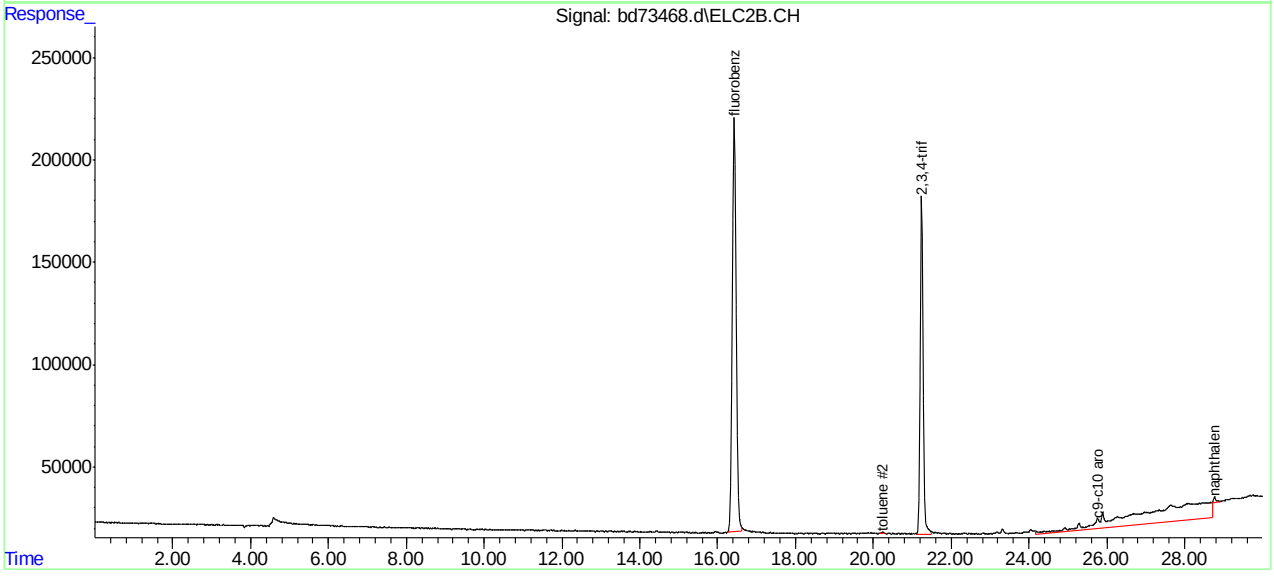
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

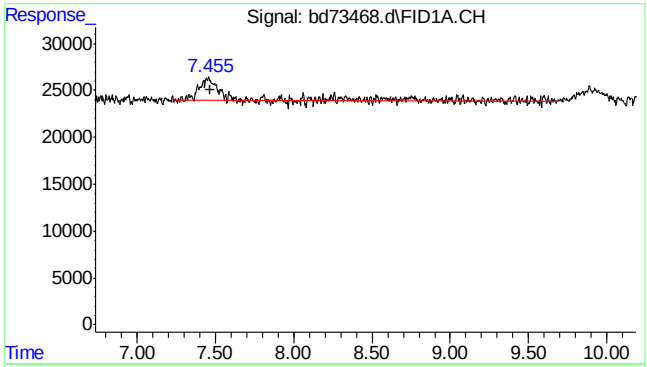
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 13:46:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



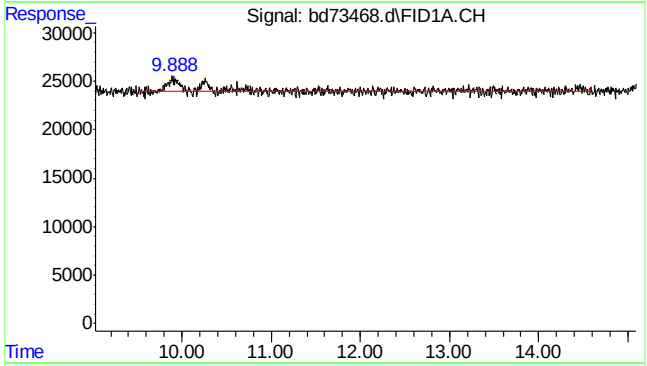


SGS ACCUTEST MC45580



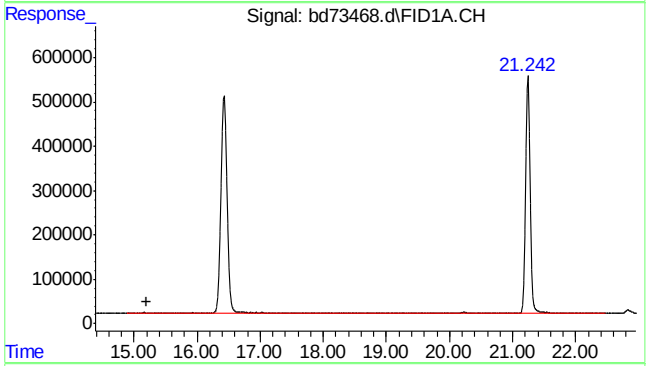
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 394048
Conc: 0.64 ppb m



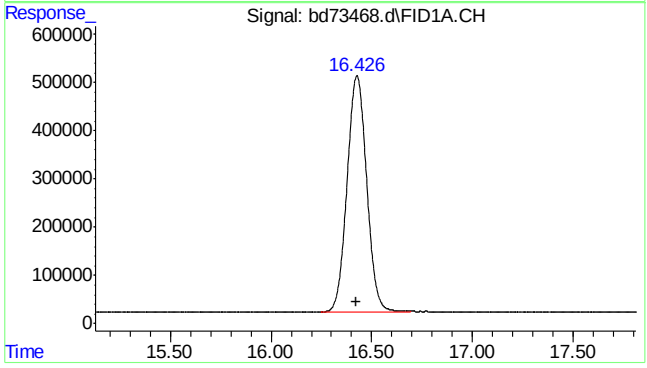
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 502578
Conc: 0.81 ppb m



#3 rt10/13

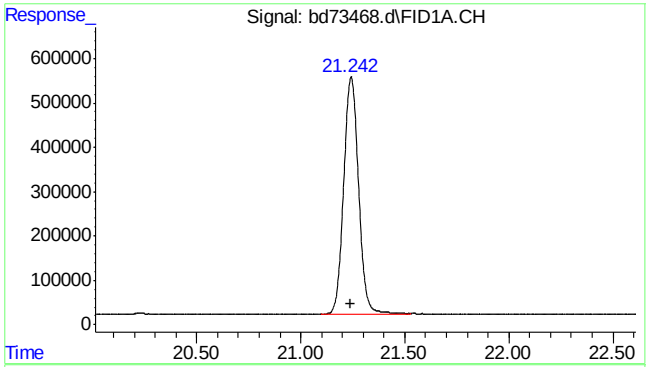
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1128012
Conc: 1.83 ppb m



#4 fluorobenzene

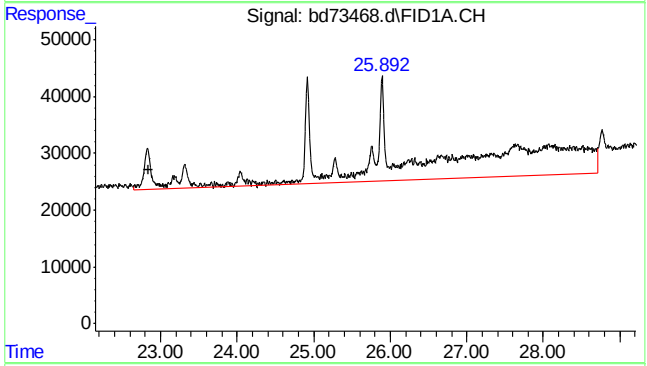
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33393819
Conc: 49.08 ppb

SGS ACCUTEST MC45580



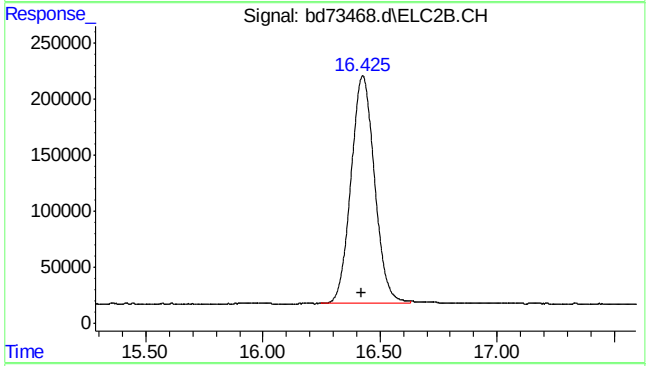
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26750559
Conc: 51.34 ppb



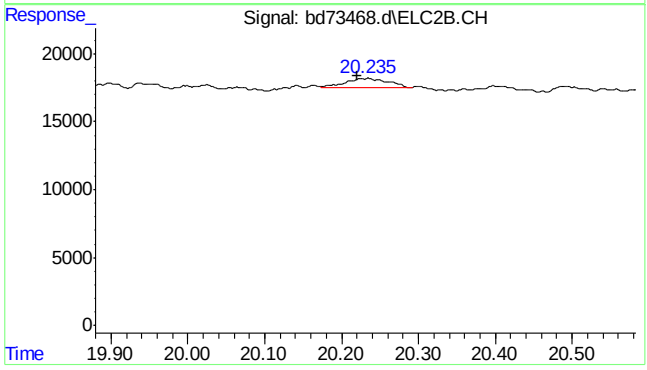
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 9844522
Conc: 12.30 ppb



#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 14165803
Conc: 41.76 ppb



#17 toluene #2

R.T.: 20.235 min
Delta R.T.: 0.014 min
Response: 25391
Conc: 0.06 ppb

7.2.1

7

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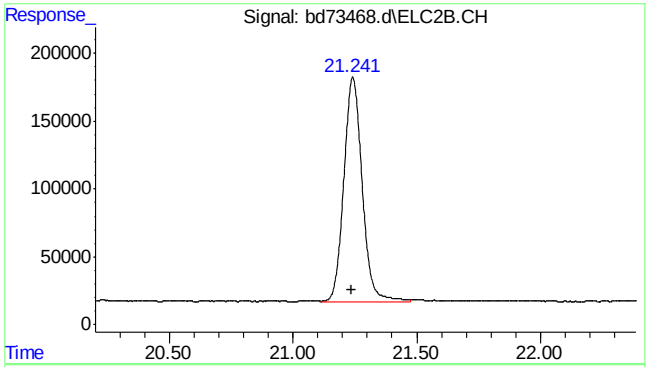
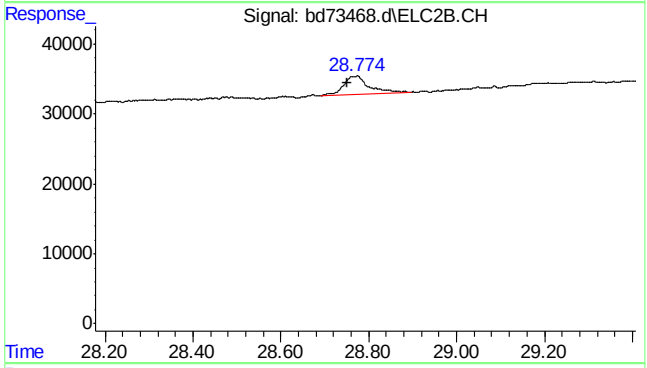


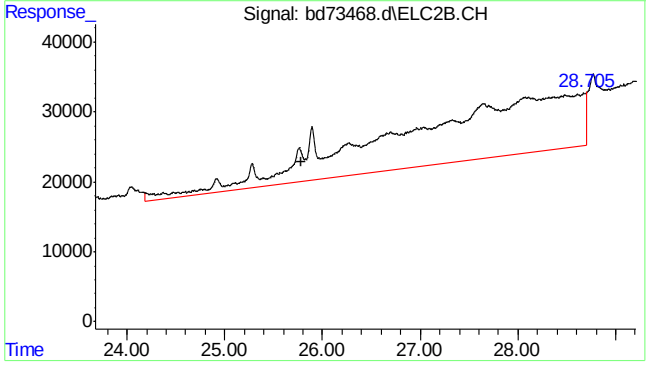
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8528351
Conc: 43.32 ppb



#24 naphthalene #2

R.T.: 28.774 min
Delta R.T.: 0.024 min
Response: 110887
Conc: 0.86 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 11315550
Conc: 23.02 ppb

7.2.1

7

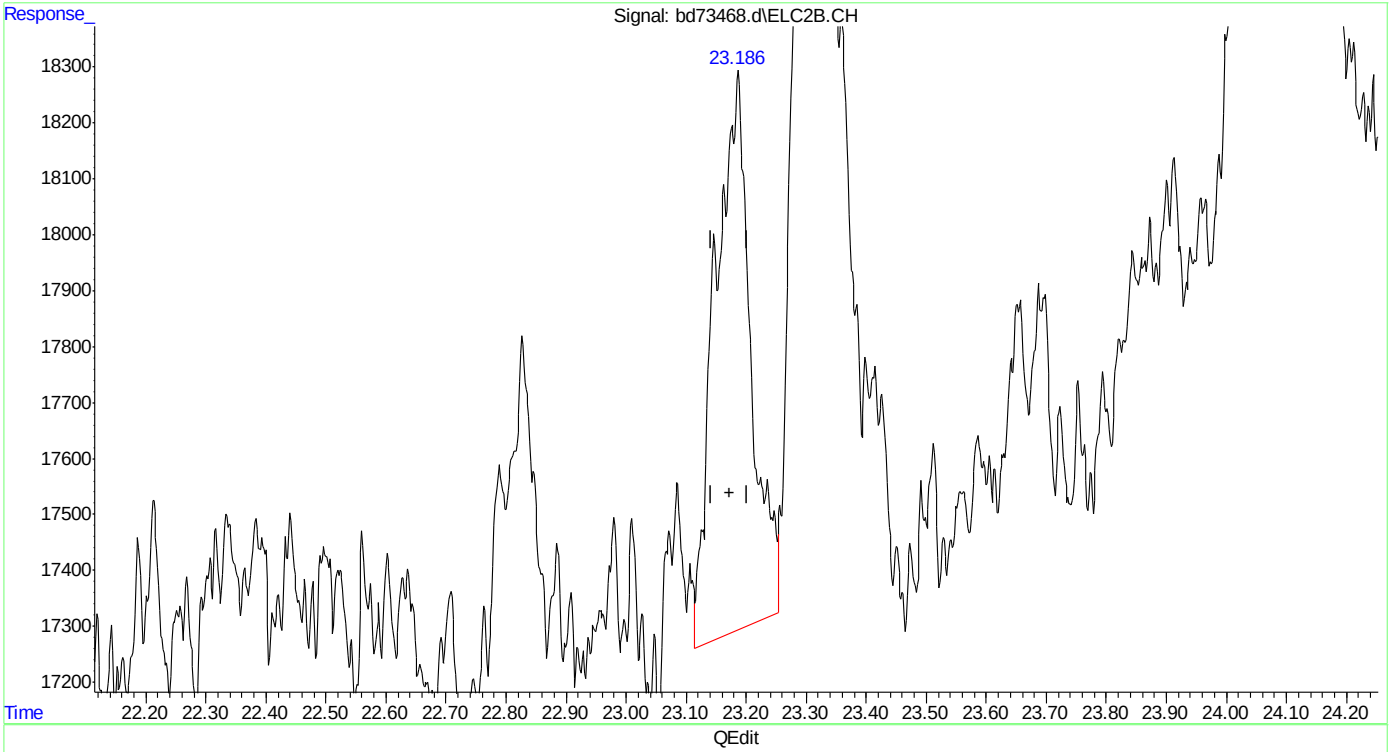
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
23.187min 0.100 ppb
response 41547

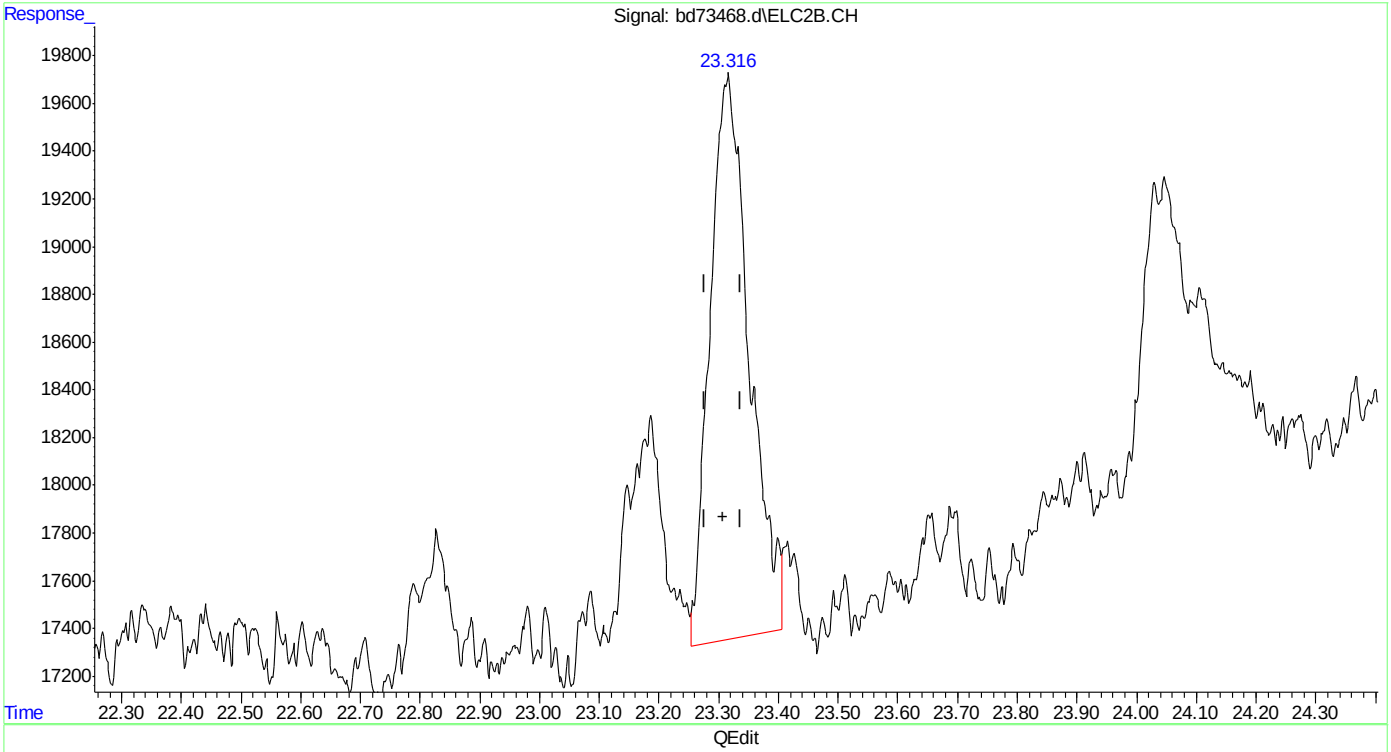
(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 13:46:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
23.316min 0.217 ppb
response 108176

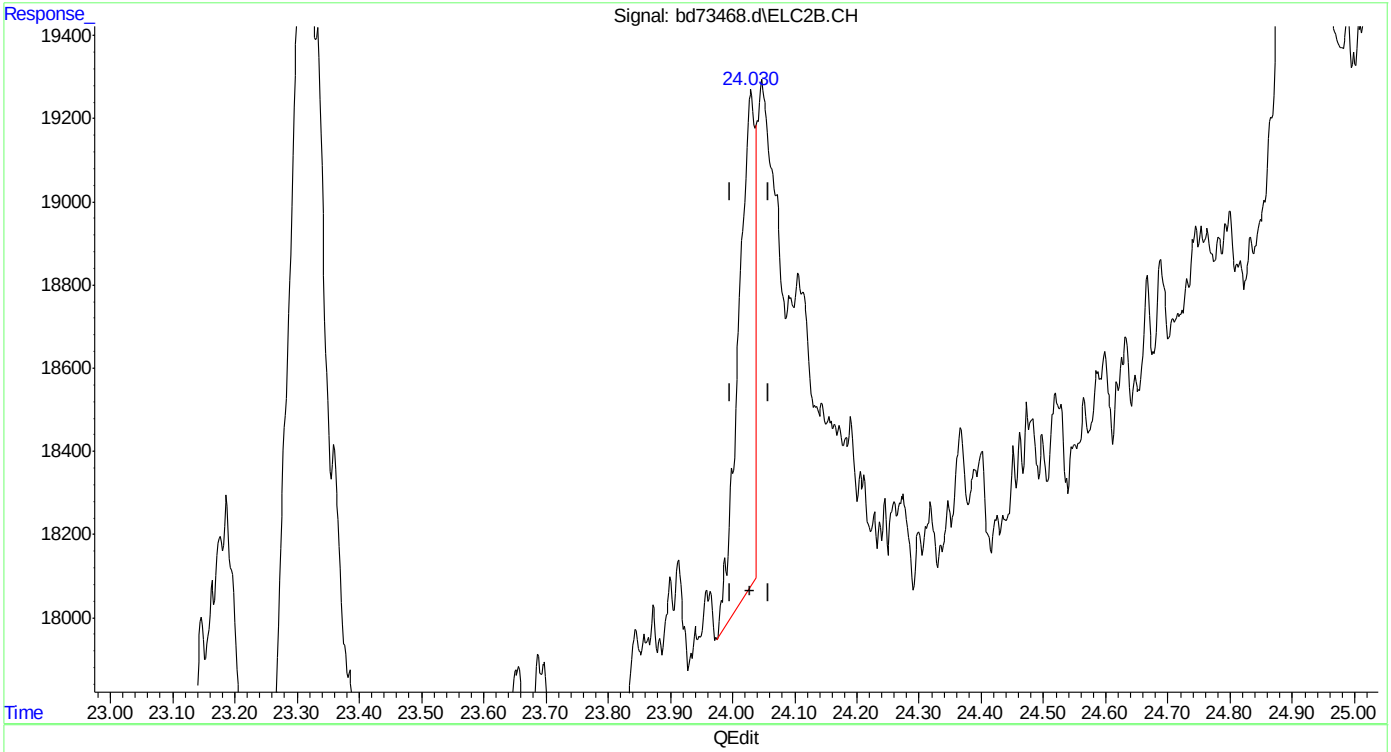
(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 13:46:39 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 12:41:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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

24.030min 0.050 ppb

response 21873

(+) = Expected Retention Time

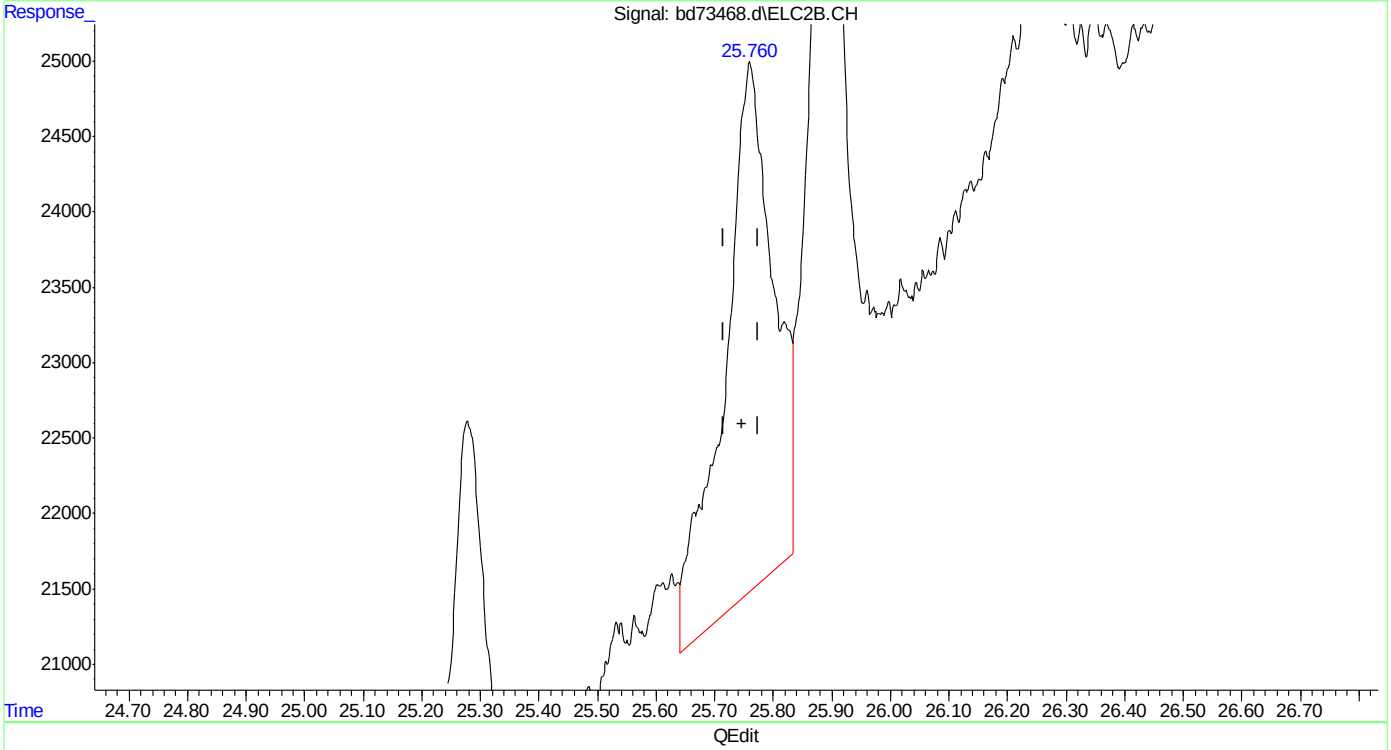
bd160428vph.M Thu Apr 28 13:46:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
25.760min 0.416 ppb
response 204644

(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 13:46:52 2016

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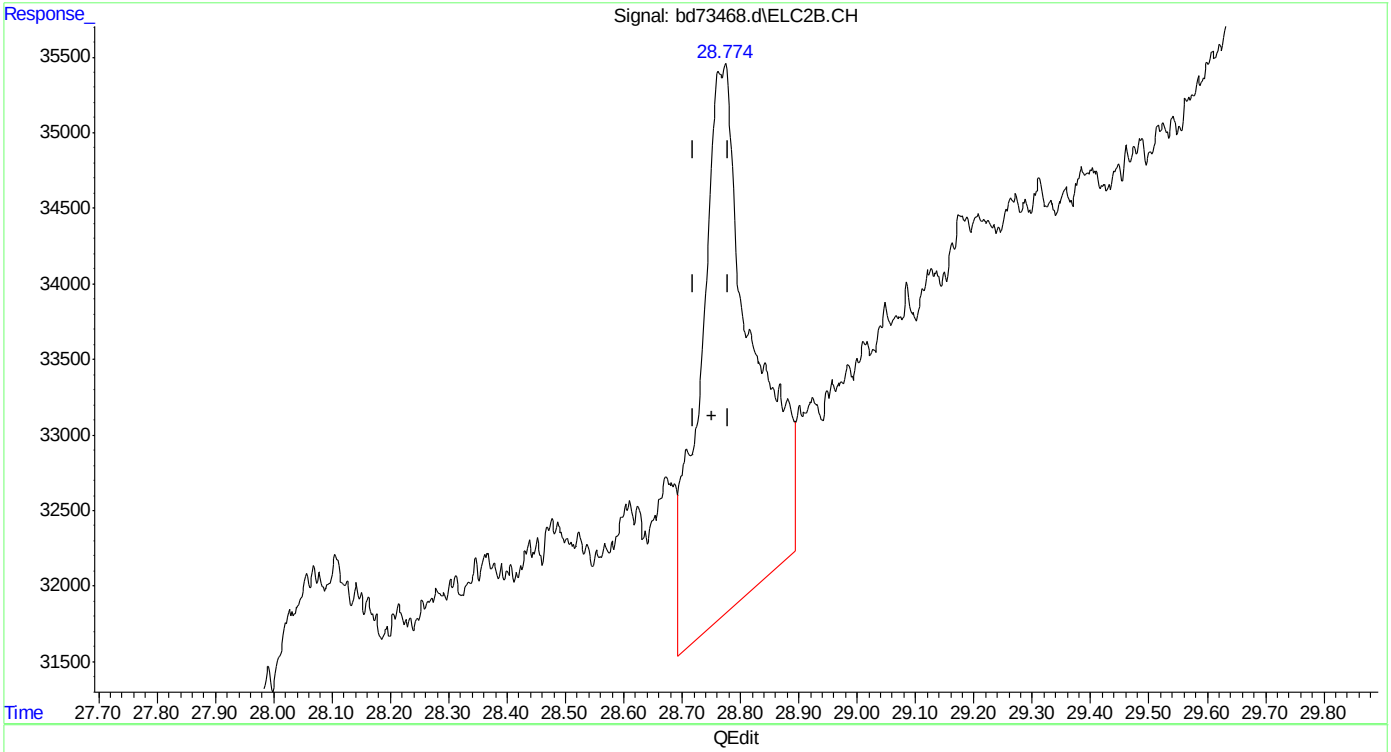
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:41:03
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
28.774min 1.177 ppb
response 225295

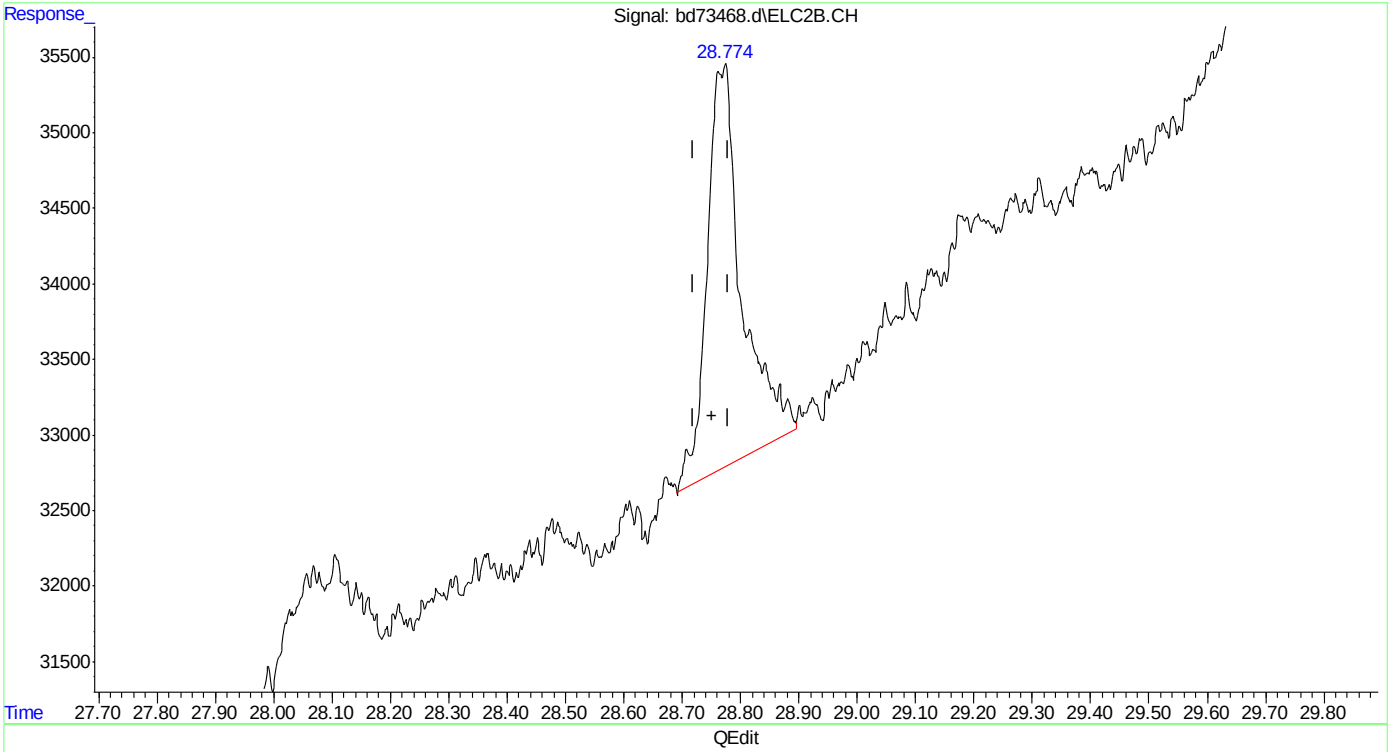
(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 13:46:56 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73468.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 12:41:03
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 13:45:58 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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

28.774min 0.863 ppb m

response 110887

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 13:47:03 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:20:03
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 14:04:26 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	33546597	49.304 ppb	
Spiked Amount 50.000		Recovery	= 98.61%	
6) s 2,3,4-trifluorotoluene	21.242	27344913	52.485 ppb	
Spiked Amount 50.000		Recovery	= 104.97%	
16) s fluorobenzene #2	16.427	14315420	42.197 ppb	
Spiked Amount 50.000		Recovery	= 84.39%	
18) s 2,3,4-trifluorotoluen...	21.242	8636521	43.872 ppb	
Spiked Amount 50.000		Recovery	= 87.74%	
Target Compounds				
1) h rt5.5-7	7.470	26600049	43.130 ppb	m
2) h rt7/10	9.920	32113587	52.069 ppb	m
3) h rt10/13	15.200	27127236	43.984 ppb	m
8) h rt20/25	22.840	31067458	38.823 ppb	m
10) h decane	24.930	29326073	36.647 ppb	
11) h butylcyclohexane	25.908	33281851	41.591 ppb	
14) mtbe #2	10.681f	7806322	50.655 ppb	m
15) benzene #2	15.933	23212309	47.999 ppb	
17) toluene #2	20.224	21657767	47.839 ppb	
19) ethylbenzene #2	23.177	19194738	46.251 ppb	
20) m,p-xylene #2	23.313	46531363	93.353 ppb	
21) o-xylene #2	24.034	19683022	45.271 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	27604824	41.138 ppb	
23) 1,2,4-trimethylbenzen...	25.753	21705953	44.129 ppb	
24) naphthalene #2	28.759	19444562	53.882 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21714482	44.167 ppb	m

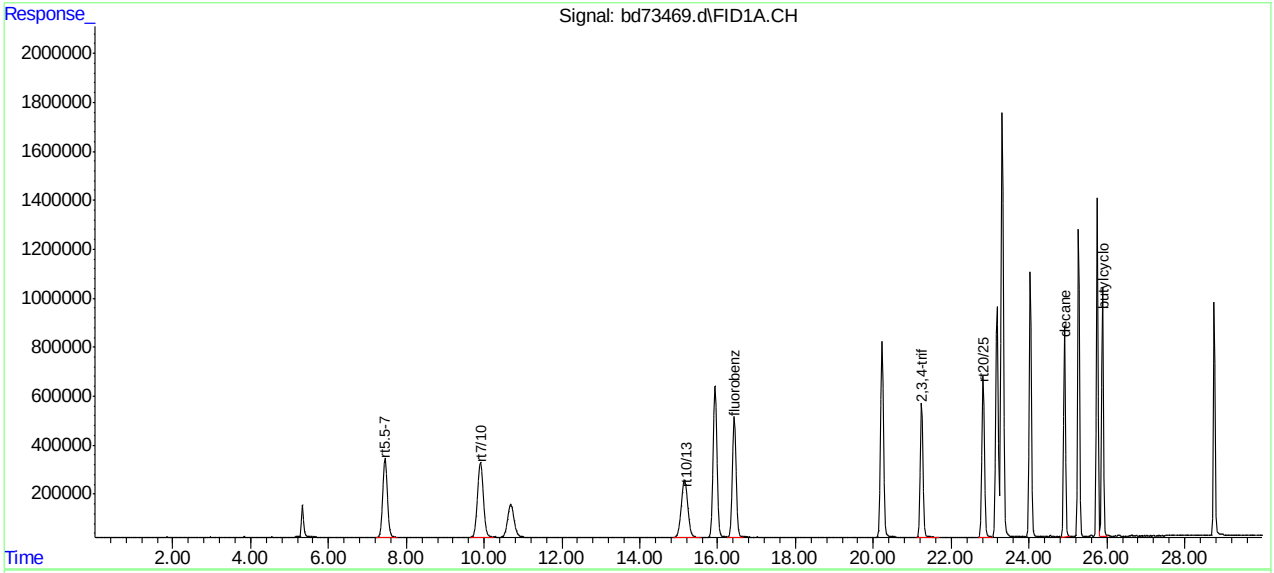
(f)=RT Delta > 1/2 Window (m)=manual int.

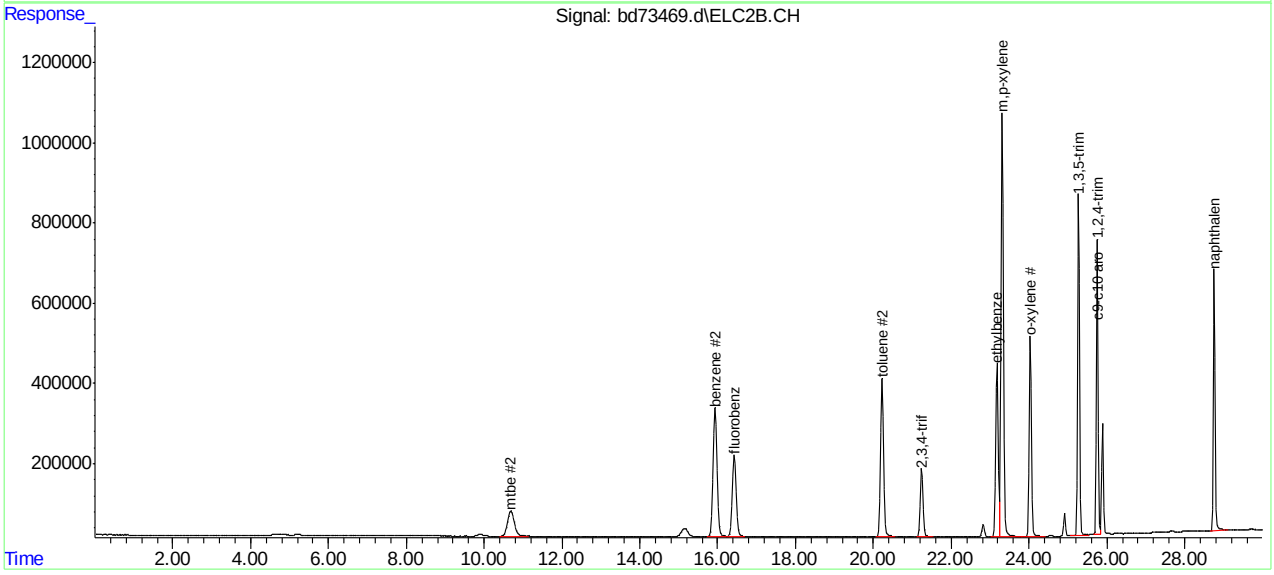
Quantitation Report (QT Reviewed)

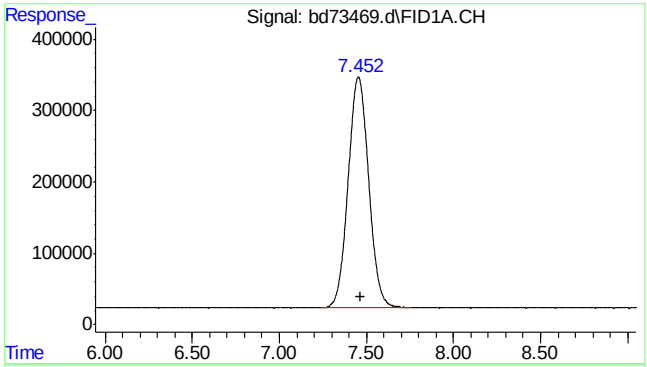
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:20:03
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 14:04:26 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :

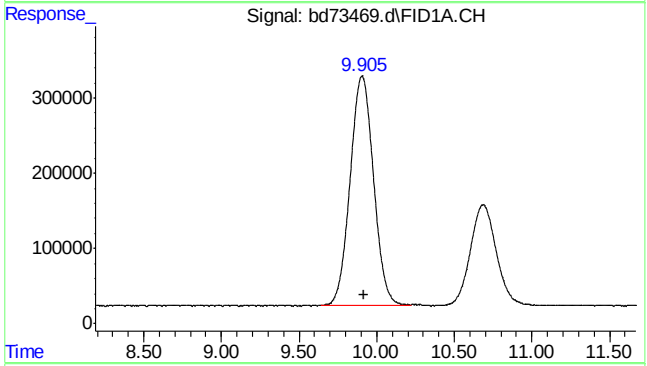






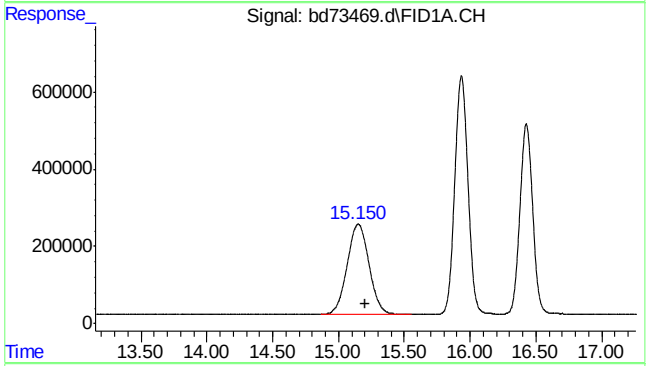
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26600049
Conc: 43.13 ppb m



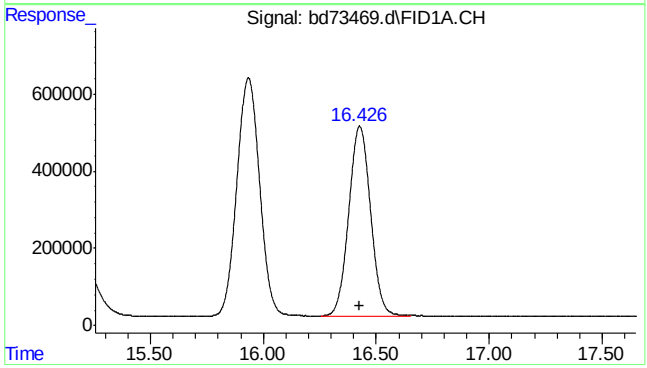
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 32113587
Conc: 52.07 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27127236
Conc: 43.98 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33546597
Conc: 49.30 ppb

7.3.1

7

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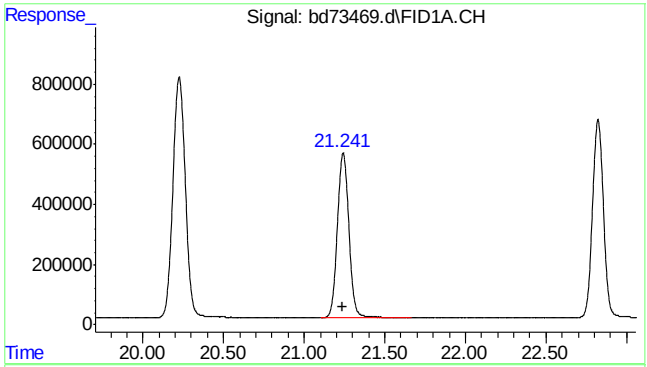
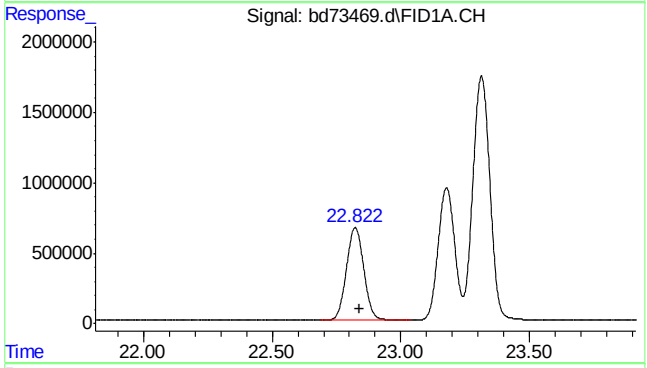


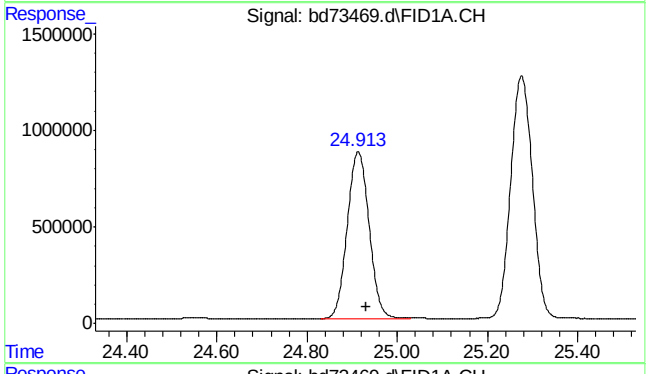
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 27344913
Conc: 52.48 ppb



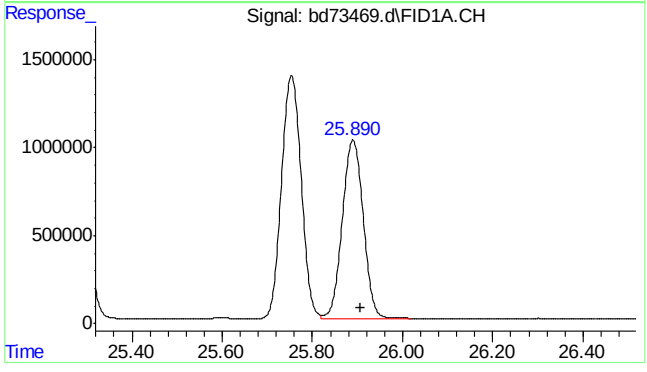
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 31067458
Conc: 38.82 ppb m



#10 decane

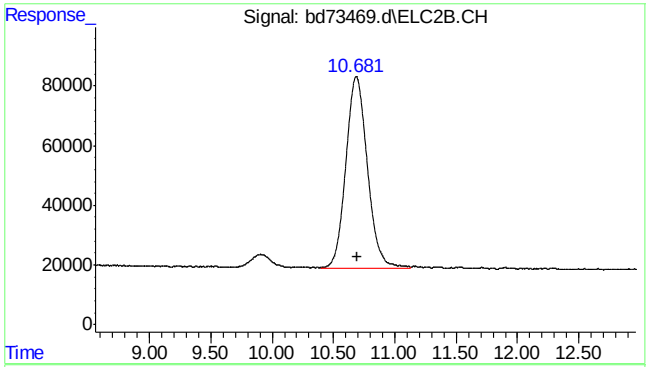
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 29326073
Conc: 36.65 ppb



#11 butylcyclohexane

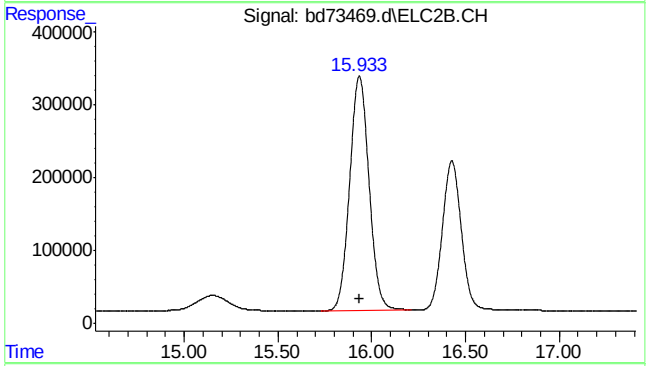
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 33281851
Conc: 41.59 ppb

SGS ACCUTEST MC45580



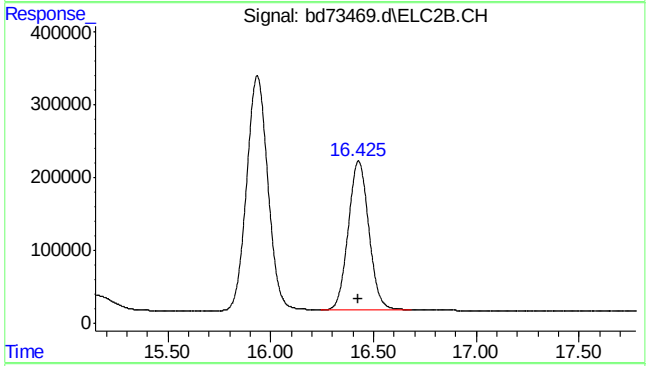
#14 mtbe #2

R.T.: 10.681 min
Delta R.T.: -0.015 min
Response: 7806322
Conc: 50.65 ppb m



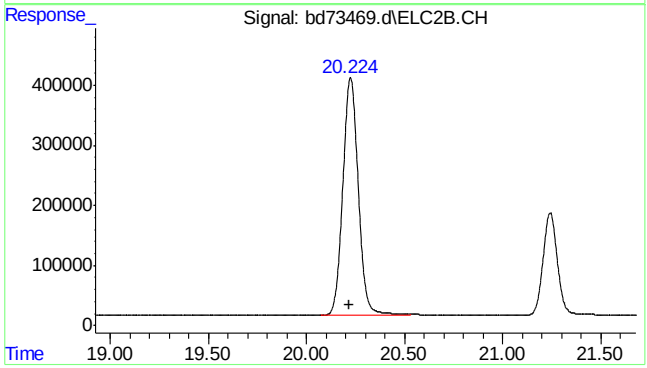
#15 benzene #2

R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 23212309
Conc: 48.00 ppb



#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14315420
Conc: 42.20 ppb



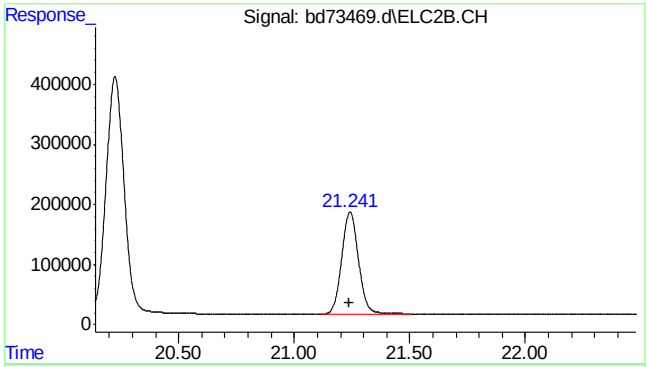
#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21657767
Conc: 47.84 ppb

7.3.1

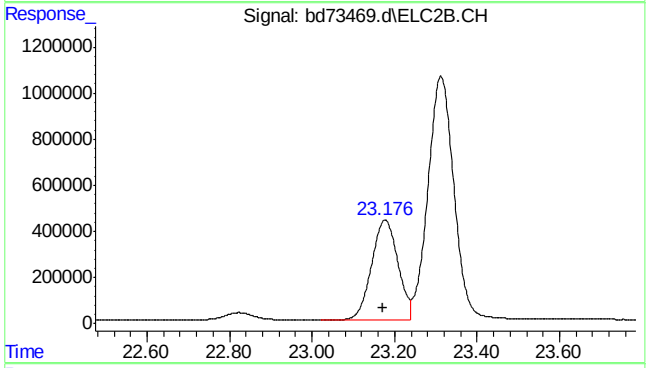
7

SGS ACCUTEST MC45580



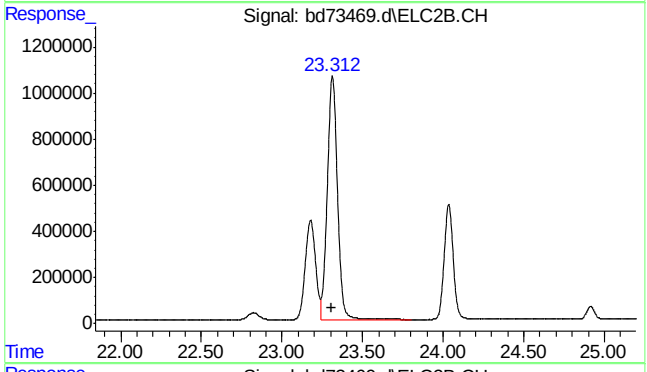
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8636521
Conc: 43.87 ppb



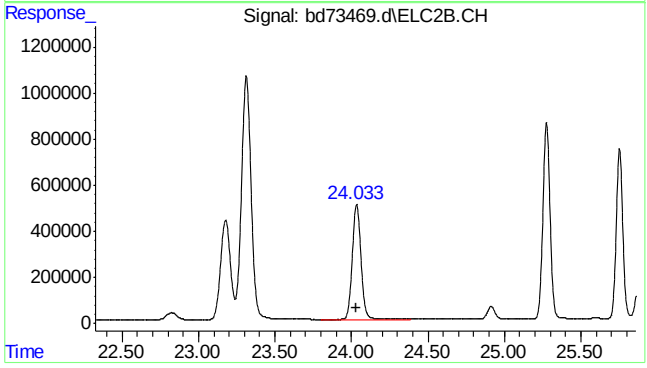
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 19194738
Conc: 46.25 ppb



#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 46531363
Conc: 93.35 ppb



#21 o-xylene #2

R.T.: 24.034 min
Delta R.T.: 0.006 min
Response: 19683022
Conc: 45.27 ppb

7.3.1

7

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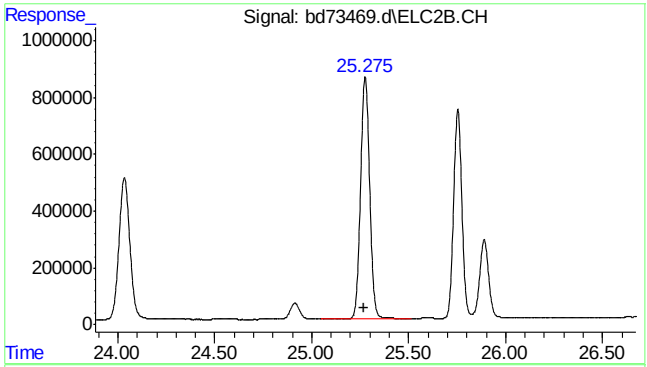
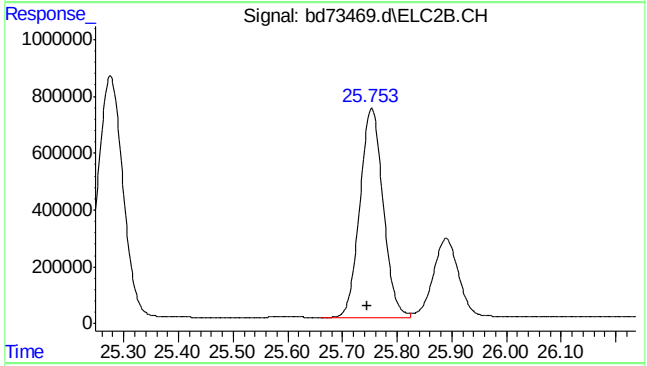


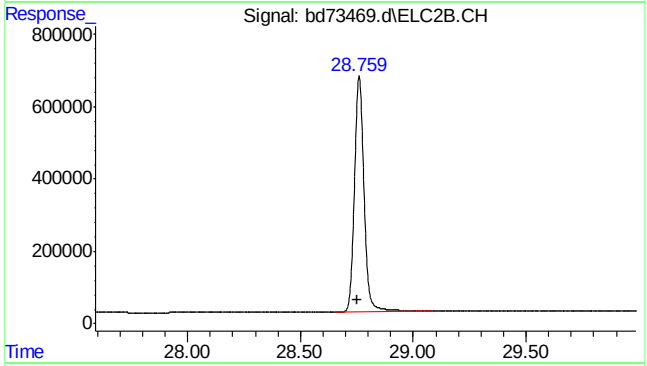
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 27604824
Conc: 41.14 ppb



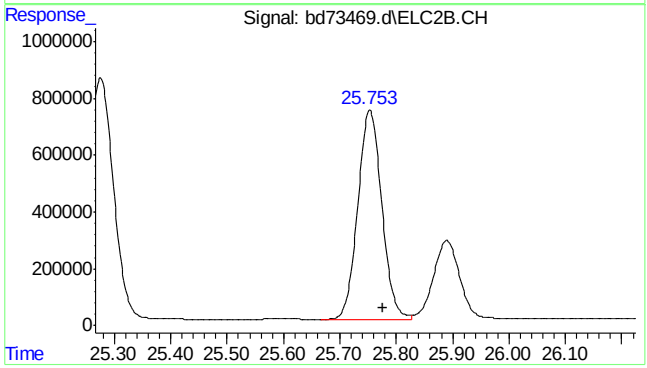
#23 1,2,4-trimethylbenzene #2

R.T.: 25.753 min
Delta R.T.: 0.007 min
Response: 21705953
Conc: 44.13 ppb



#24 naphthalene #2

R.T.: 28.759 min
Delta R.T.: 0.009 min
Response: 19444562
Conc: 53.88 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21714482
Conc: 44.17 ppb m

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Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:20:03
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 14:03:30 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 49.162 ppb
response 7576315

(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 14:04:02 2016

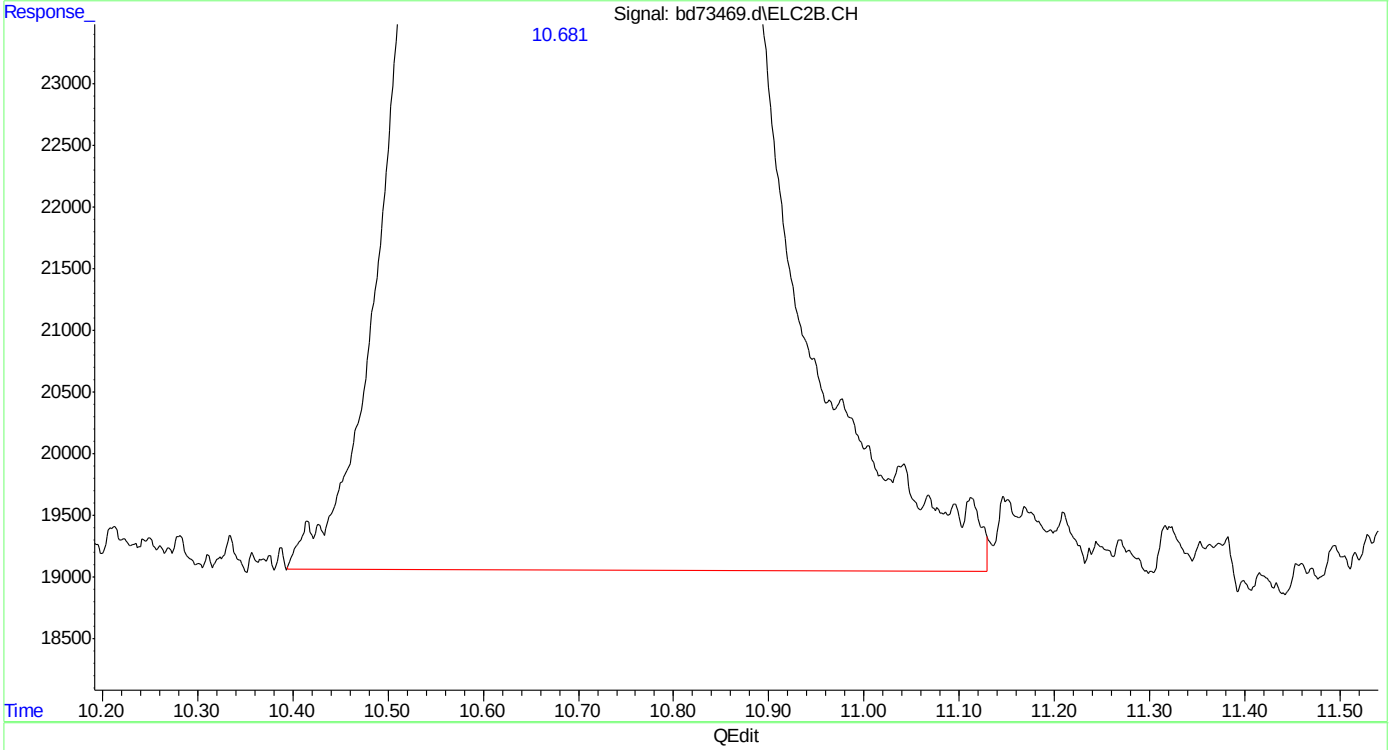
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 13:20:03
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 14:03:30 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 50.655 ppb m

response 7806322

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 14:04:07 2016

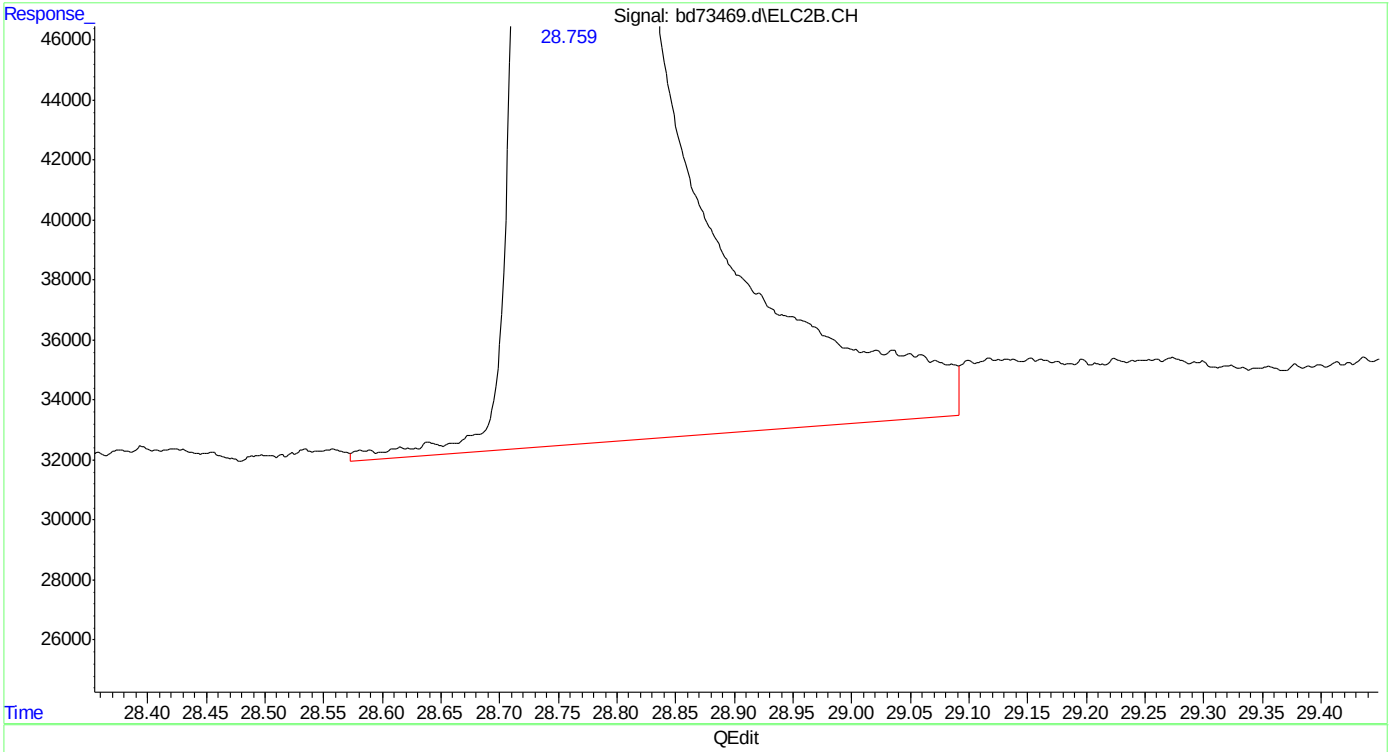
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:20:03
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 14:03:30 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 54.319 ppb
response 19604173

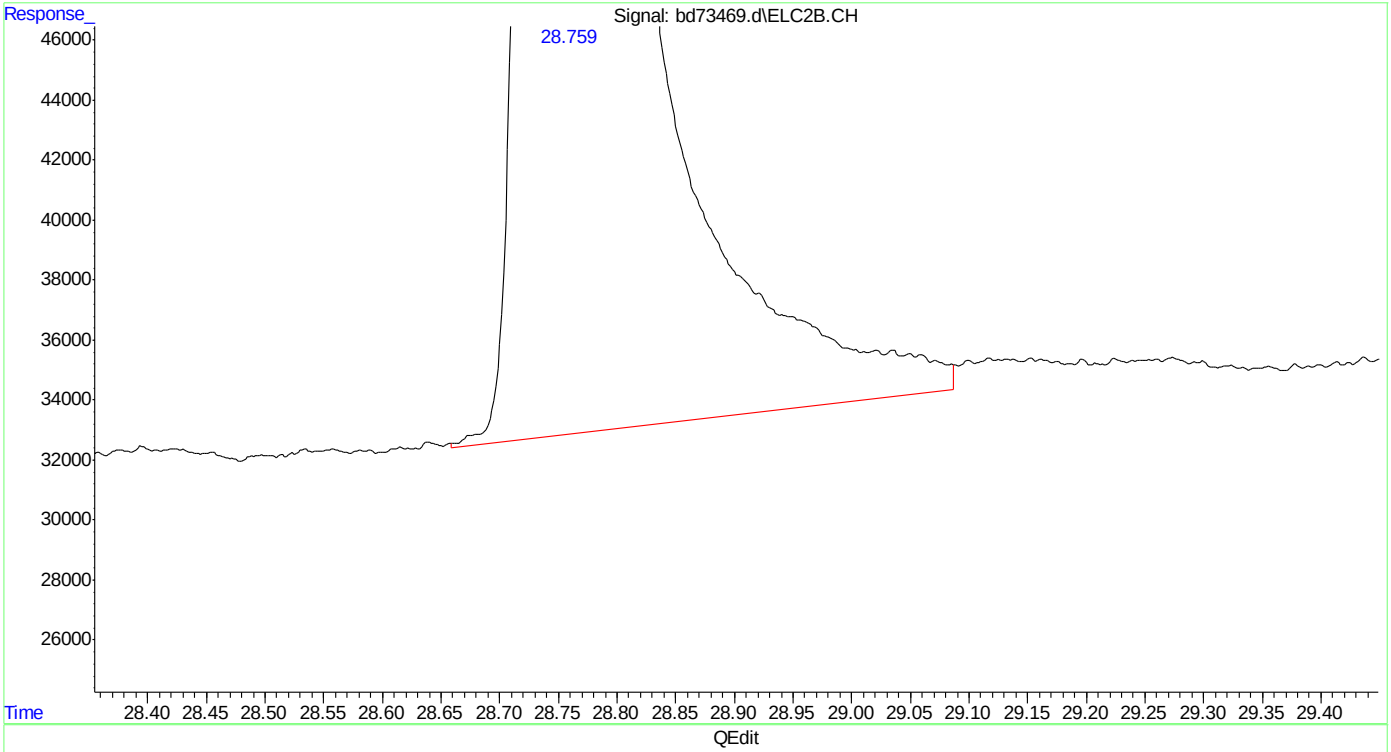
(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 14:04:16 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73469.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 13:20:03
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 14:03:30 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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

28.759min 53.882 ppb m

response 19444562

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 14:04:20 2016

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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:59:38
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 15:00:20 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	33031977	48.548	ppb	
Spiked Amount 50.000		Recovery =	97.10%		
6) s 2,3,4-trifluorotoluene	21.242	26644538	51.141	ppb	
Spiked Amount 50.000		Recovery =	102.28%		
16) s fluorobenzene #2	16.427	14454039	42.605	ppb	
Spiked Amount 50.000		Recovery =	85.21%		
18) s 2,3,4-trifluorotoluen...	21.242	8543579	43.400	ppb	
Spiked Amount 50.000		Recovery =	86.80%		
Target Compounds					
1) h rt5.5-7	7.470	26404147	42.812	ppb	m
2) h rt7/10	9.920	31538914	51.138	ppb	m
3) h rt10/13	15.200	27967646	45.347	ppb	m
8) h rt20/25	22.840	31891388	39.853	ppb	m
10) h decane	24.930	30272630	37.830	ppb	
11) h butylcyclohexane	25.908	34539558	43.162	ppb	
14) mtbe #2	10.687	7722728	50.112	ppb	m
15) benzene #2	15.935	23016875	47.595	ppb	
17) toluene #2	20.225	21333140	47.122	ppb	
19) ethylbenzene #2	23.177	19033762	45.863	ppb	
20) m,p-xylene #2	23.313	46121001	92.530	ppb	
21) o-xylene #2	24.035	19418288	44.662	ppb	
22) t 1,3,5-trimethylbenzen...	25.276	27715375	41.303	ppb	
23) 1,2,4-trimethylbenzen...	25.754	21730951	44.180	ppb	
24) naphthalene #2	28.760	19717328	54.630	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21676111	44.088	ppb	m

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

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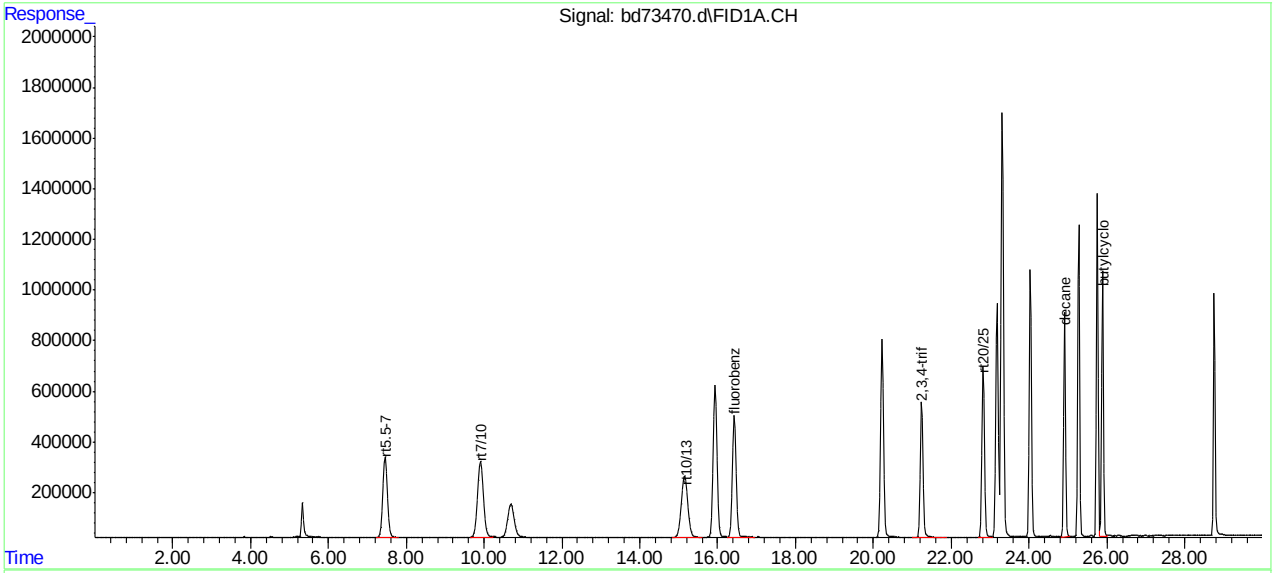
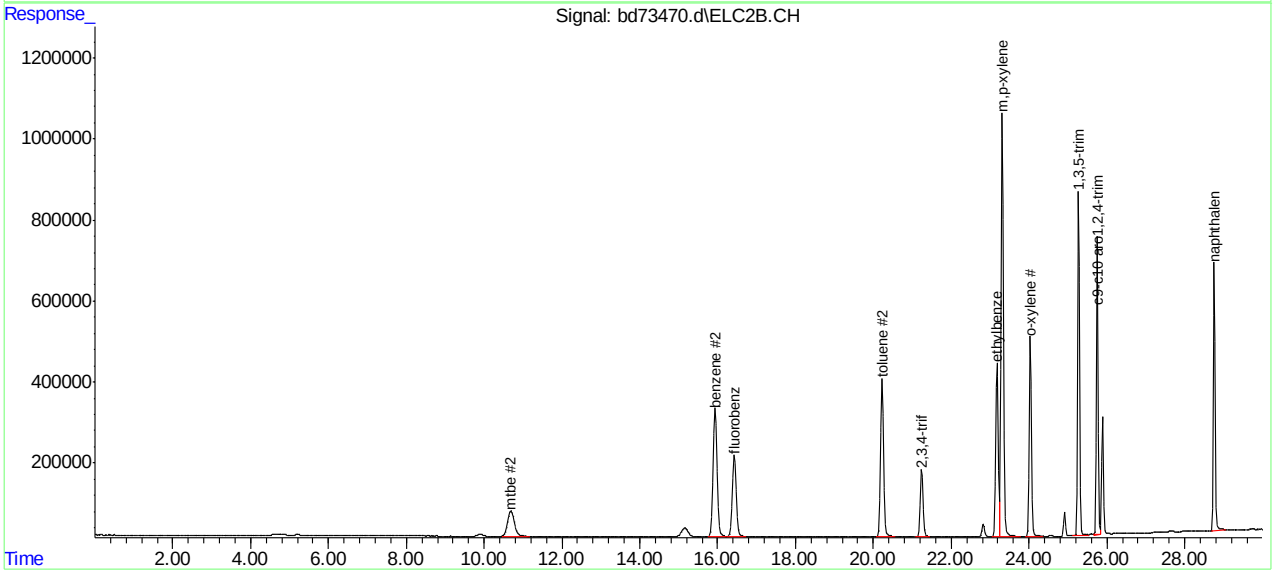
Quantitation Report (QT Reviewed)

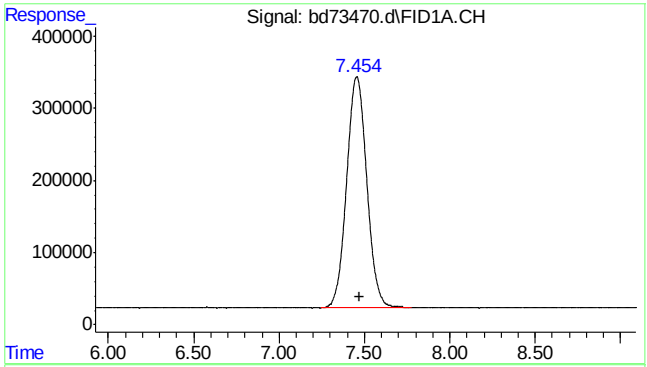
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:59:38
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 15:00:20 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :

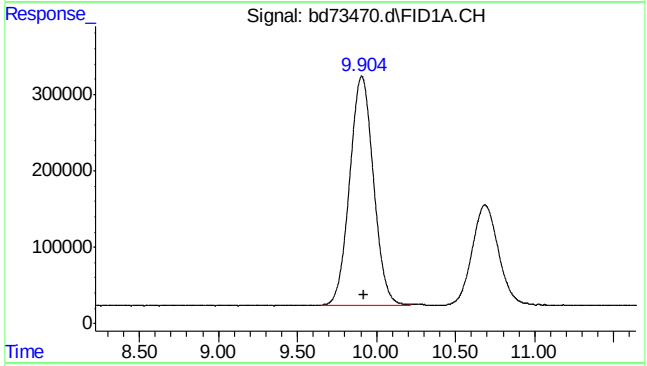






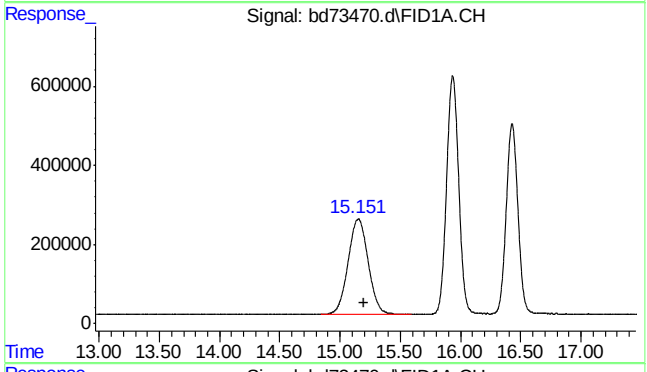
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26404147
Conc: 42.81 ppb m



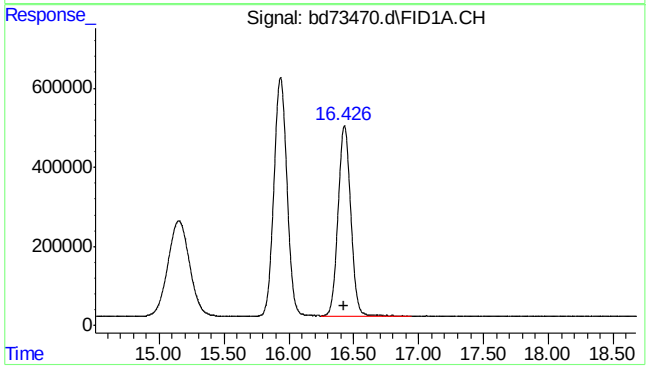
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31538914
Conc: 51.14 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 27967646
Conc: 45.35 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33031977
Conc: 48.55 ppb

7.3.2

7

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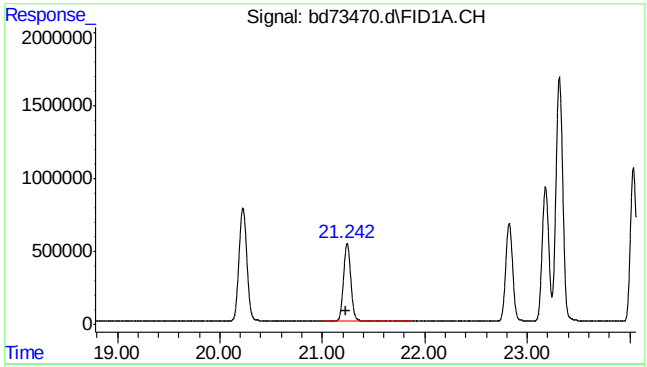
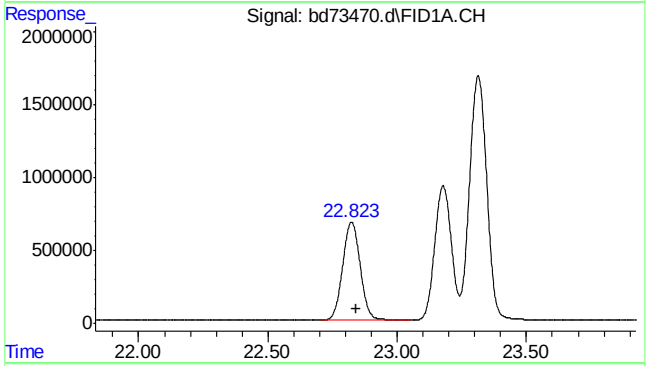


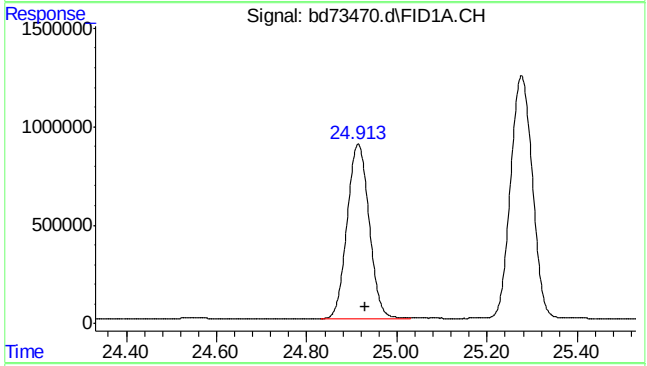
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26644538
Conc: 51.14 ppb



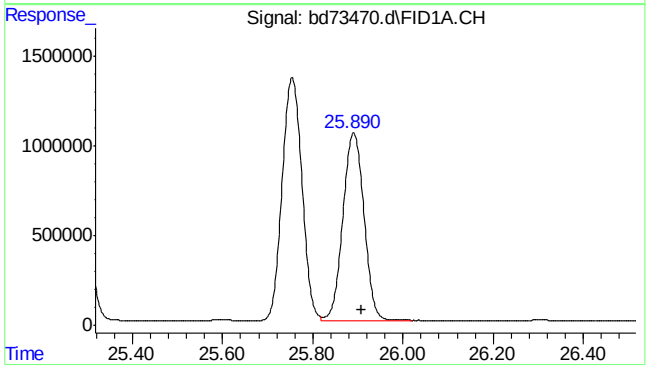
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 31891388
Conc: 39.85 ppb m



#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30272630
Conc: 37.83 ppb



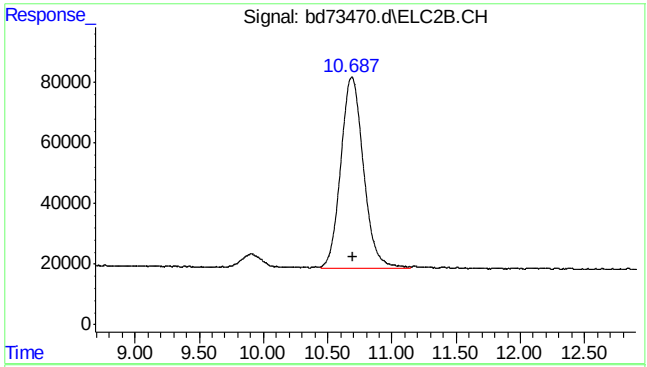
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34539558
Conc: 43.16 ppb

7.3.2

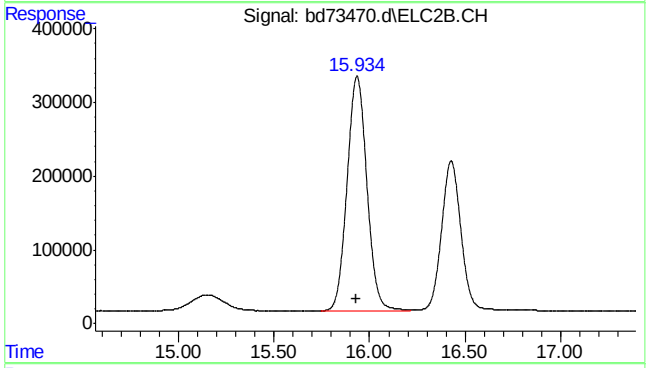
7

SGS ACCUTEST MC45580



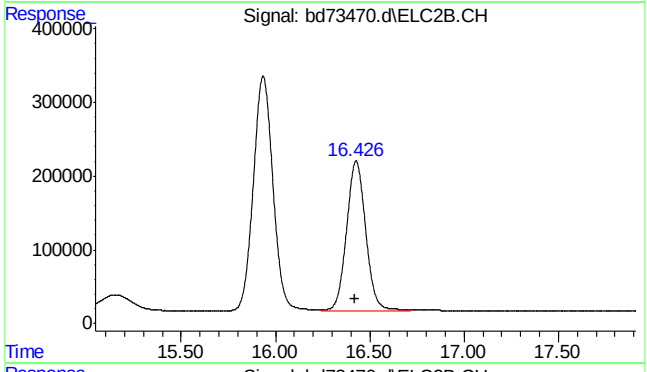
#14 mtbe #2

R.T.: 10.687 min
Delta R.T.: -0.009 min
Response: 7722728
Conc: 50.11 ppb m



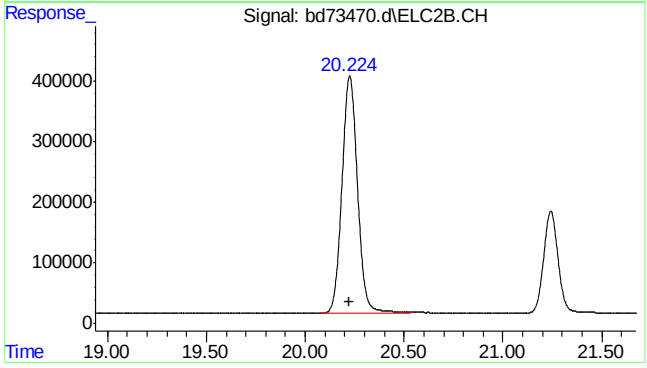
#15 benzene #2

R.T.: 15.935 min
Delta R.T.: 0.003 min
Response: 23016875
Conc: 47.59 ppb



#16 fluorobenzene #2

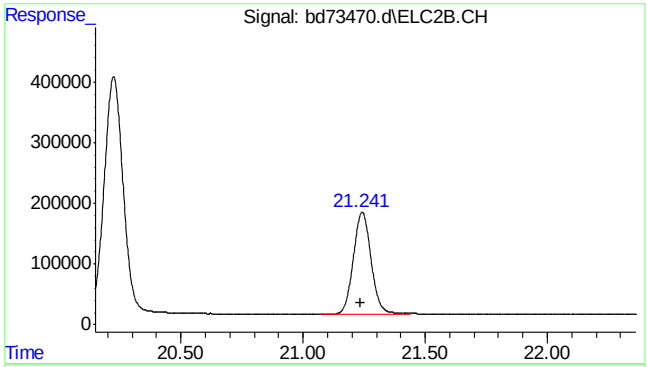
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14454039
Conc: 42.61 ppb



#17 toluene #2

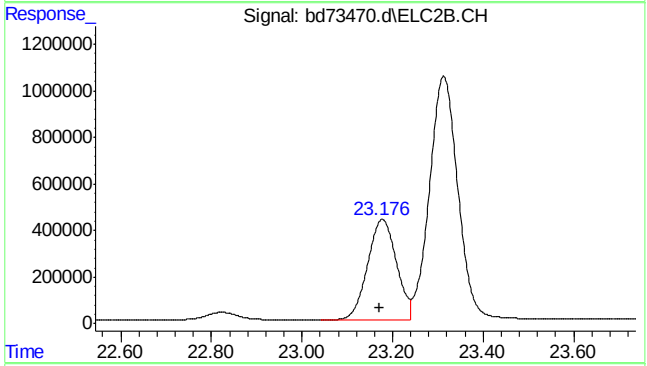
R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 21333140
Conc: 47.12 ppb

SGS ACCUTEST MC45580



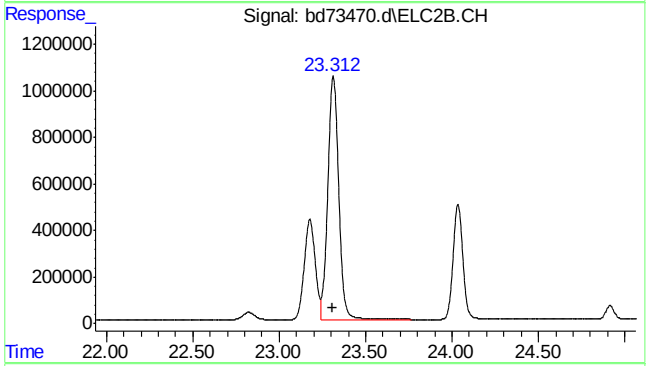
#18 2,3,4-trifluorotoluene #2

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8543579
Conc: 43.40 ppb



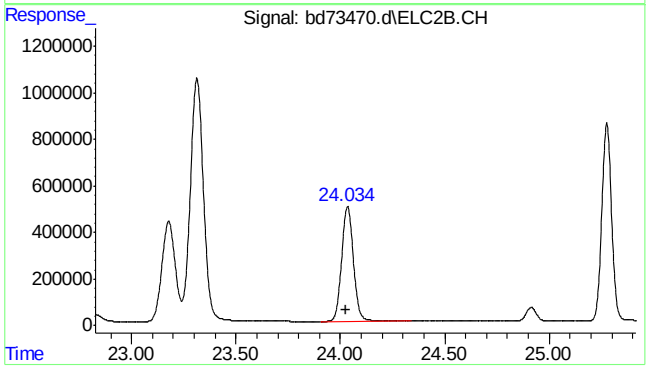
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 19033762
Conc: 45.86 ppb



#20 m,p-xylene #2

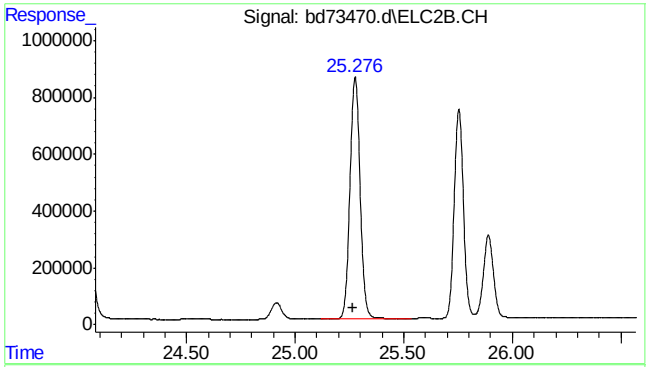
R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 46121001
Conc: 92.53 ppb



#21 o-xylene #2

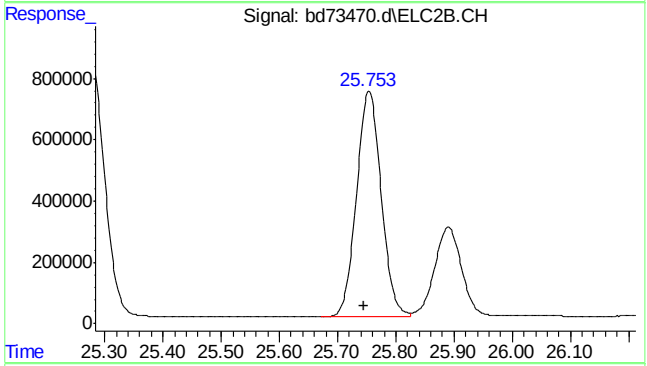
R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19418288
Conc: 44.66 ppb

SGS ACCUTEST MC45580



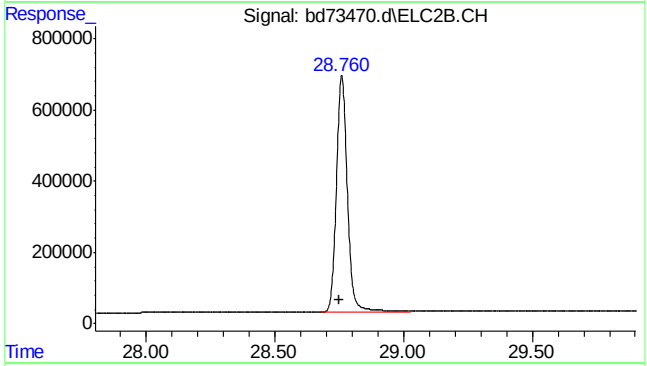
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 27715375
Conc: 41.30 ppb



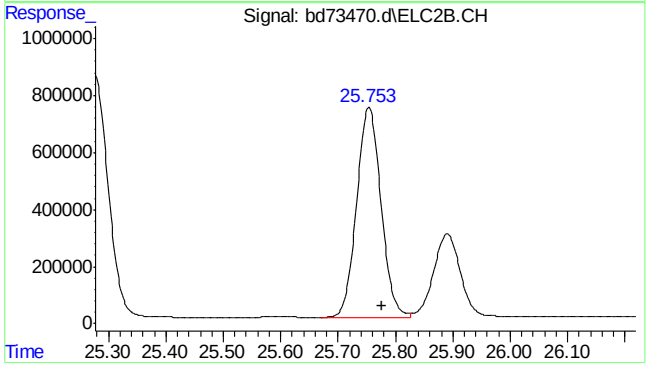
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21730951
Conc: 44.18 ppb



#24 naphthalene #2

R.T.: 28.760 min
Delta R.T.: 0.010 min
Response: 19717328
Conc: 54.63 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21676111
Conc: 44.09 ppb m

SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 13:59:38
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 28 14:59:25 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.688min 48.882 ppb
response 7533059

(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 14:59:58 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 13:59:38
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 14:59:25 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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

10.687min 50.112 ppb m

response 7722728

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 15:00:04 2016

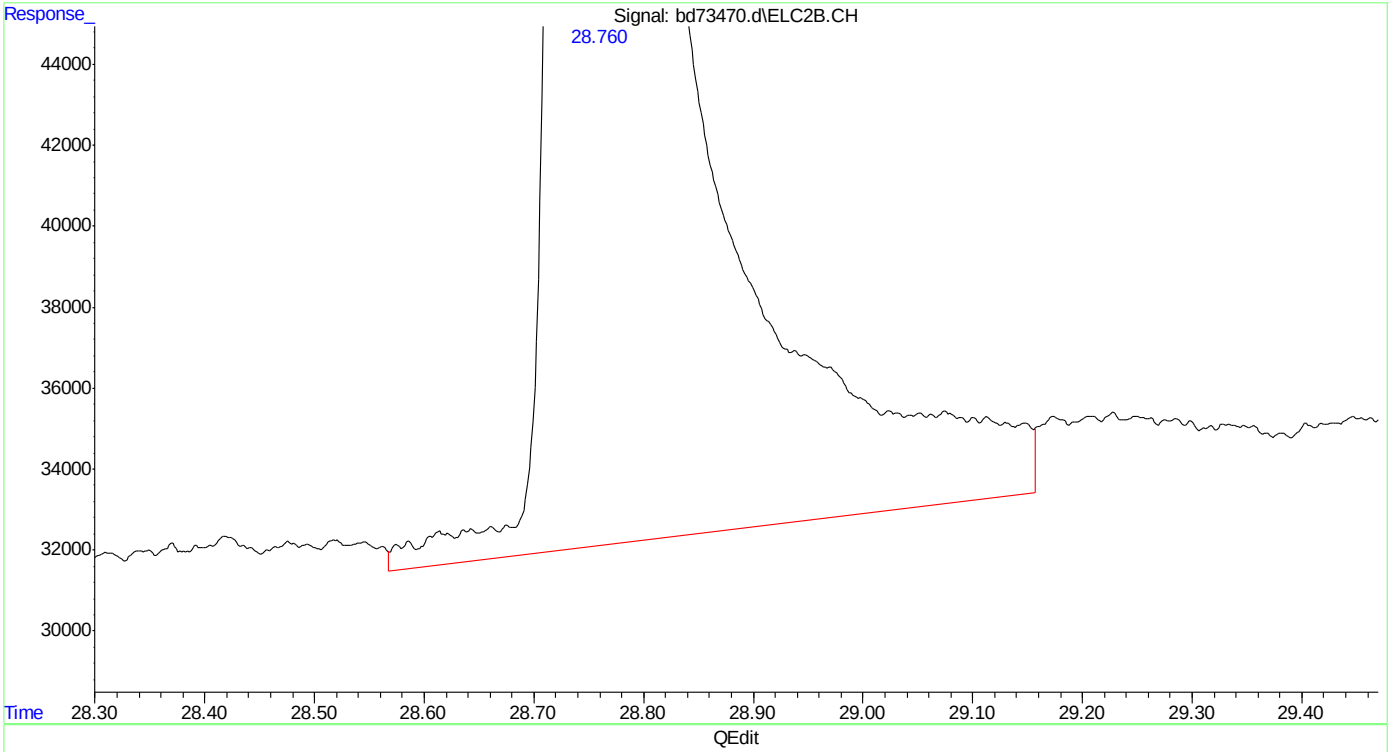
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 13:59:38
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 14:59:25 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 55.704 ppb

response 20109229

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 15:00:08 2016

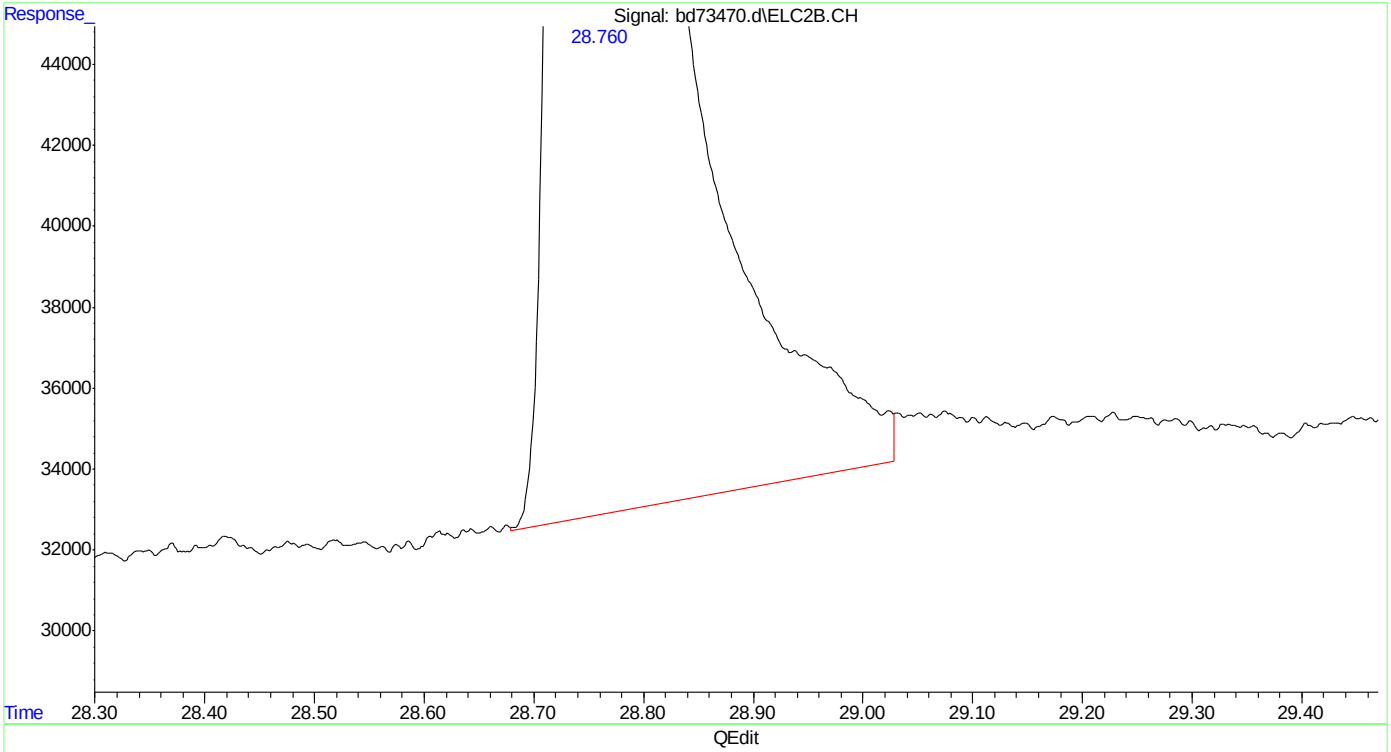
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73470.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 13:59:38
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 28 14:59:25 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 54.630 ppb m

response 19717328

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 15:00:16 2016

SGS ACCUTEST MC45580

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:58:36
Operator : tonyf
Sample : mc45580-2ms,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:48:34 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	33248428	48.866 ppb	
Spiked Amount 50.000		Recovery	= 97.73%	
6) s 2,3,4-trifluorotoluene	21.242	26986166	51.796 ppb	
Spiked Amount 50.000		Recovery	= 103.59%	
16) s fluorobenzene #2	16.426	14551425	42.893 ppb	
Spiked Amount 50.000		Recovery	= 85.79%	
18) s 2,3,4-trifluorotoluen...	21.242	8565840	43.513 ppb	
Spiked Amount 50.000		Recovery	= 87.03%	
Target Compounds				
1) h rt5.5-7	7.470	27145189	44.014 ppb	m
2) h rt7/10	9.920	48799552	79.124 ppb	m
3) h rt10/13	15.200	118758093	192.556 ppb	
8) h rt20/25	22.840	345561946	431.832 ppb	m
14) mtbe #2	10.686	7886567	51.175 ppb	m
15) benzene #2	15.933	23131727	47.832 ppb	
17) toluene #2	20.225	21370607	47.205 ppb	
19) ethylbenzene #2	23.177	18981771	45.738 ppb	
20) m,p-xylene #2	23.313	45865422	92.017 ppb	
21) o-xylene #2	24.035	19363731	44.536 ppb	
23) 1,2,4-trimethylbenzen...	25.754	21412749	43.533 ppb	
24) naphthalene #2	28.760	20303036	56.236 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	67543643	137.382 ppb	m

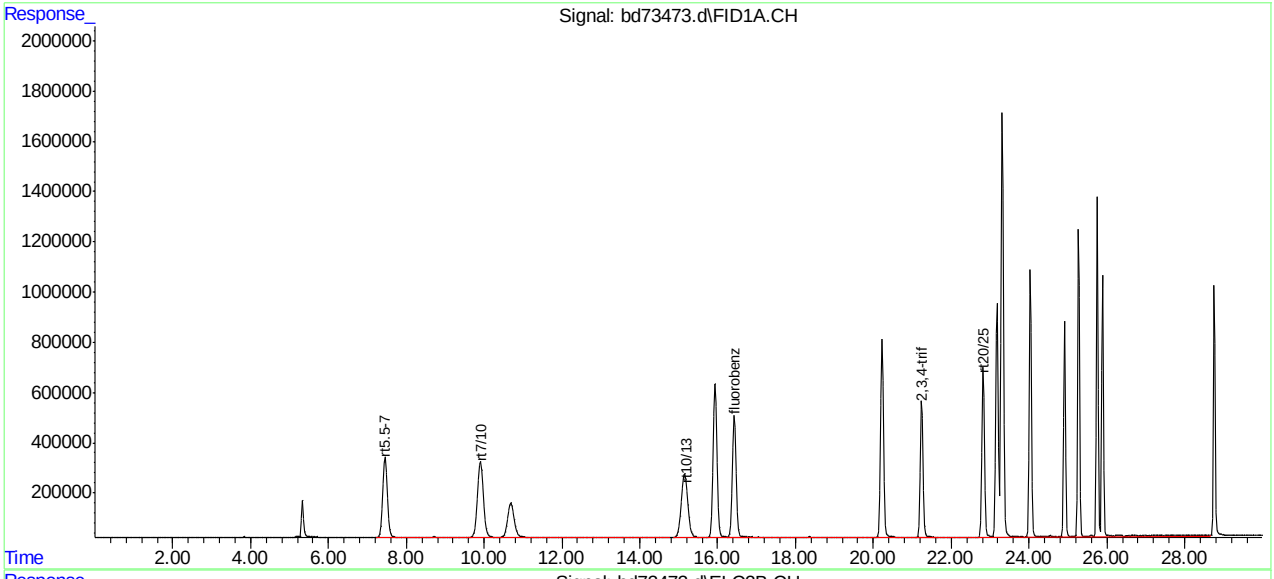
(f)=RT Delta > 1/2 Window (m)=manual int.

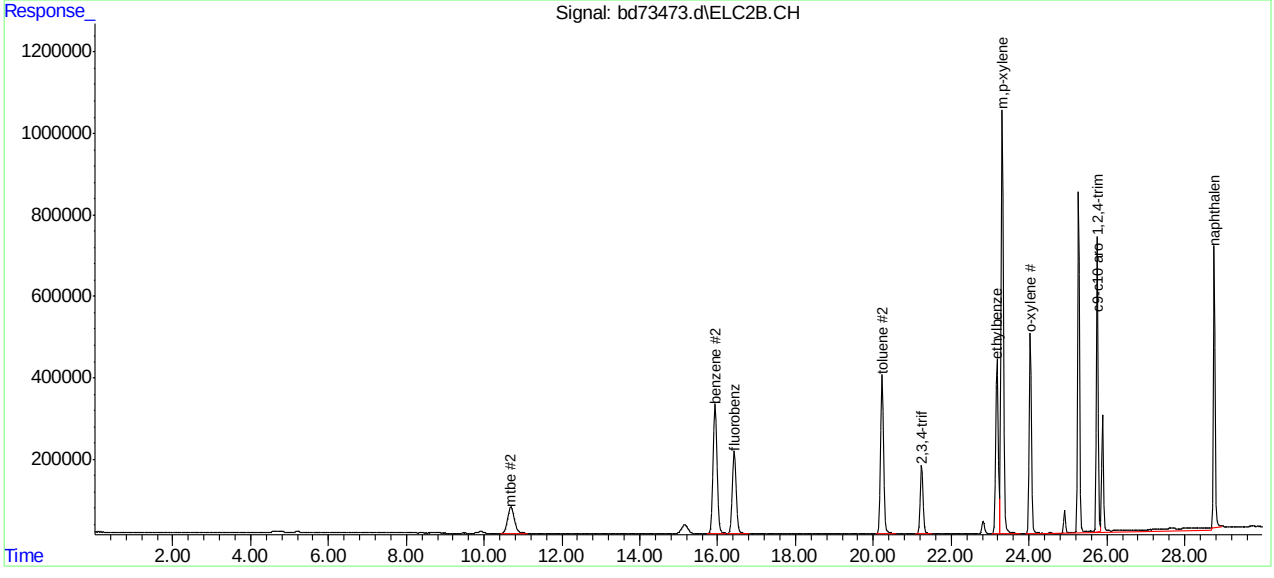
Quantitation Report (QT Reviewed)

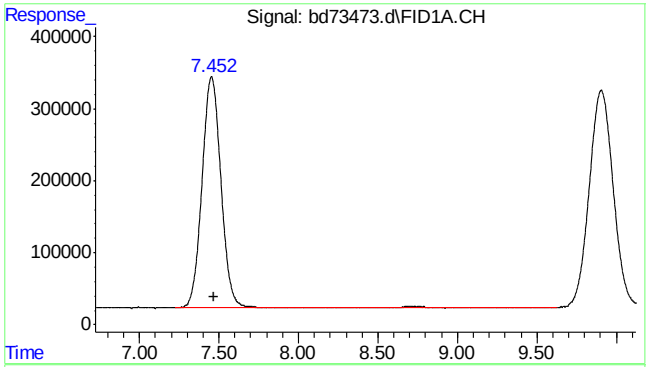
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:58:36
Operator : tonyf
Sample : mc45580-2ms,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 06:48:34 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :

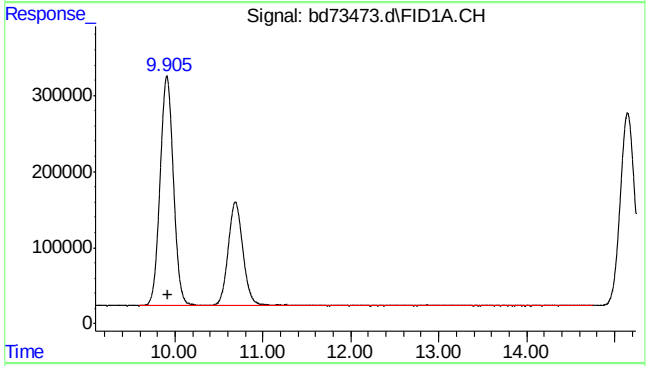






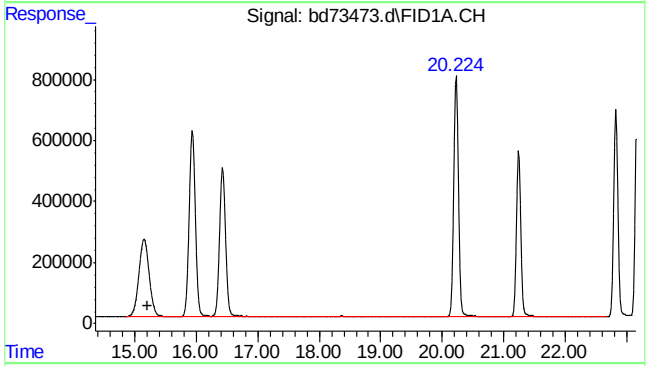
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 27145189
Conc: 44.01 ppb m



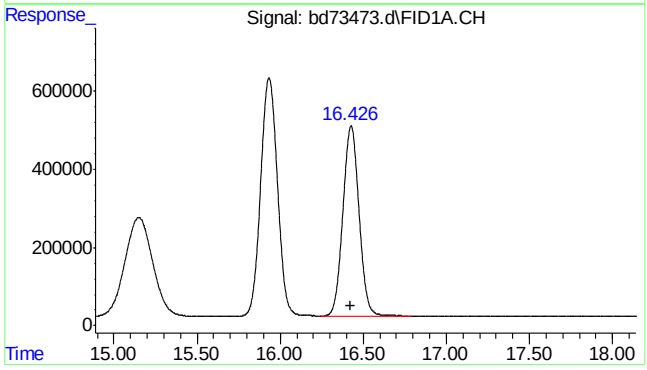
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 48799552
Conc: 79.12 ppb m



#3 rt10/13

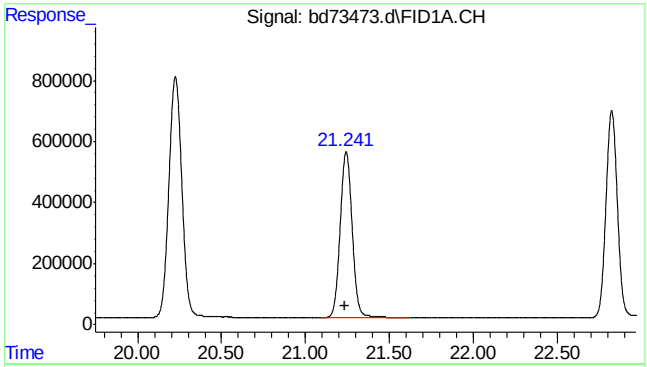
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 118758093
Conc: 192.56 ppb



#4 fluorobenzene

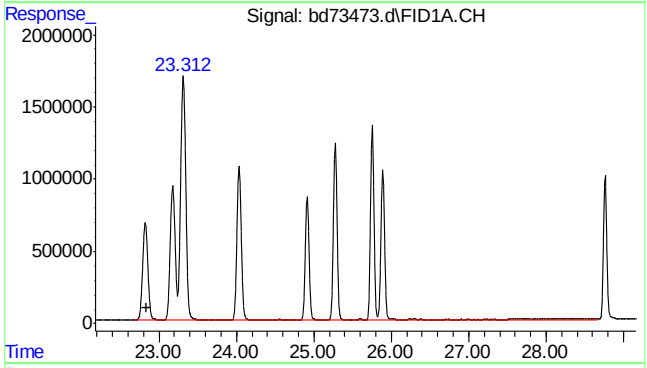
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 33248428
Conc: 48.87 ppb

SGS ACCUTEST MC45580



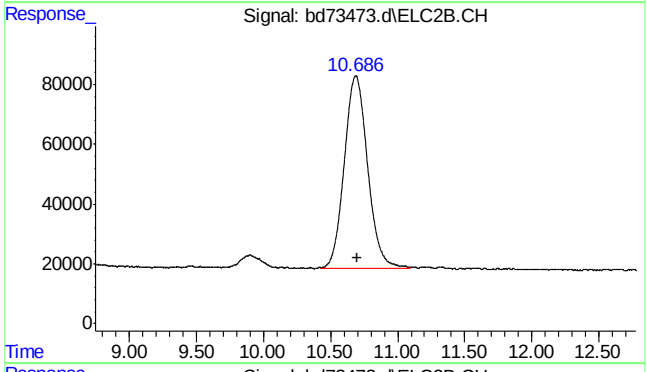
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26986166
Conc: 51.80 ppb



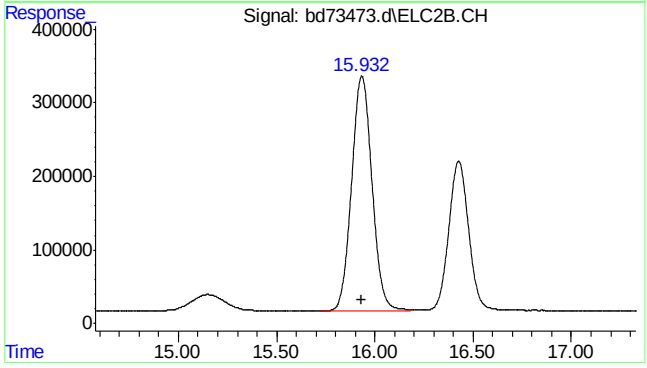
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 345561946
Conc: 431.83 ppb m



#14 mtbe #2

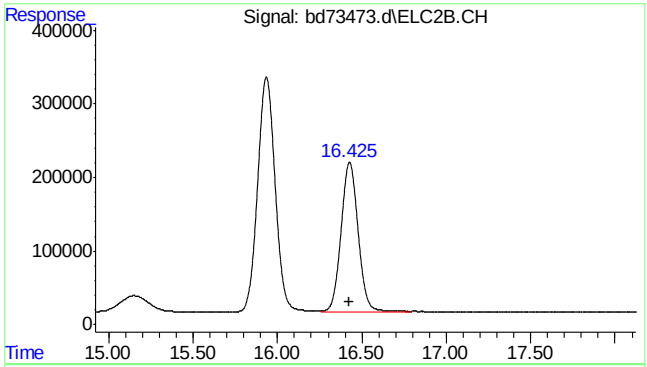
R.T.: 10.686 min
Delta R.T.: -0.010 min
Response: 7886567
Conc: 51.18 ppb m



#15 benzene #2

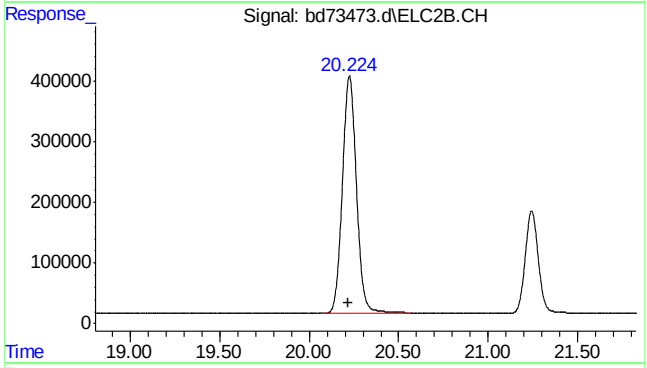
R.T.: 15.933 min
Delta R.T.: 0.000 min
Response: 23131727
Conc: 47.83 ppb

SGS ACCUTEST MC45580



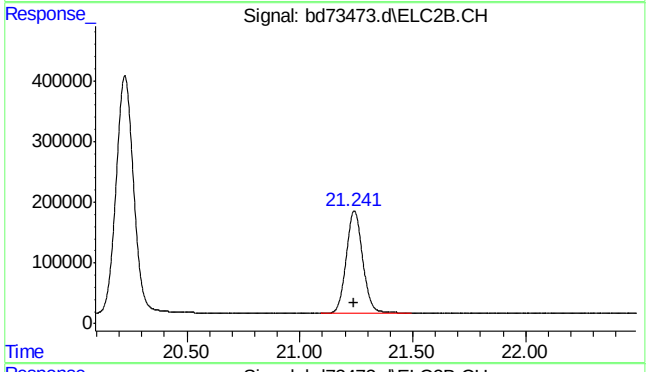
#16 fluorobenzene #2

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 14551425
Conc: 42.89 ppb



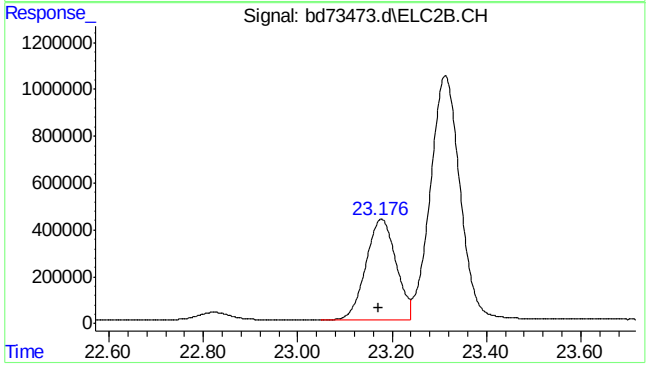
#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 21370607
Conc: 47.21 ppb



#18 2,3,4-trifluorotoluene #2

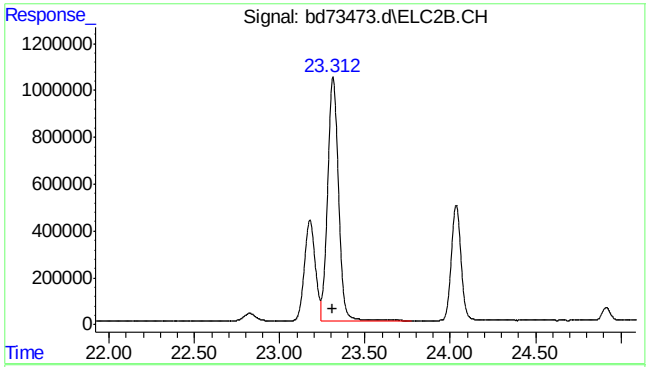
R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8565840
Conc: 43.51 ppb



#19 ethylbenzene #2

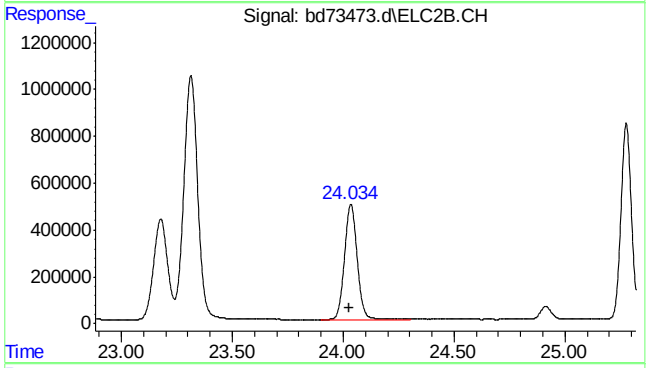
R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18981771
Conc: 45.74 ppb

SGS ACCUTEST MC45580



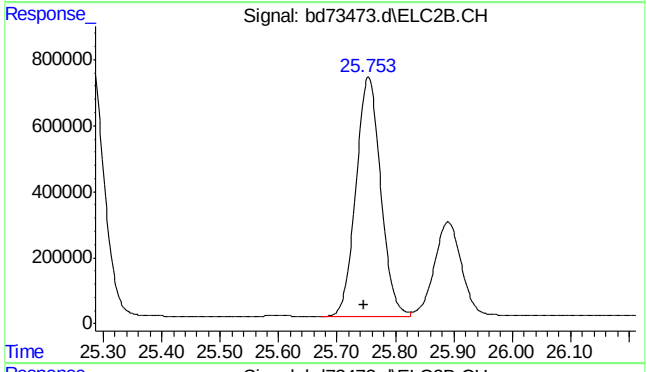
#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 45865422
Conc: 92.02 ppb



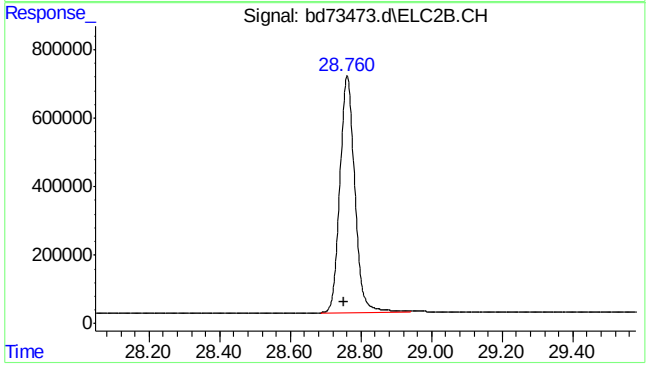
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 19363731
Conc: 44.54 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21412749
Conc: 43.53 ppb



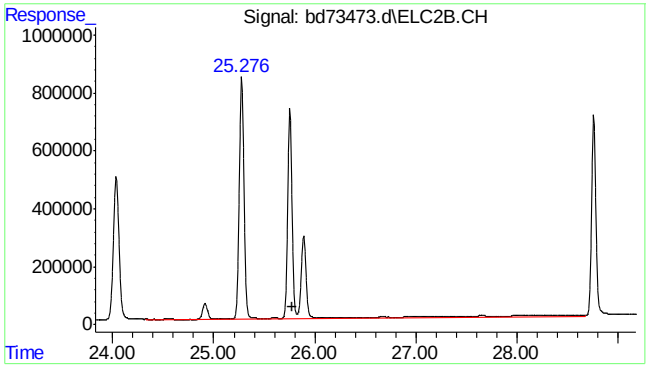
#24 naphthalene #2

R.T.: 28.760 min
Delta R.T.: 0.010 min
Response: 20303036
Conc: 56.24 ppb m

7.4.1

7

SGS ACCUTEST MC45580



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 67543643
Conc: 137.38 ppb m

SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:58:36
Operator : tonyf
Sample : mc45580-2ms,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:03 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.687min 49.954 ppb
response 7698361

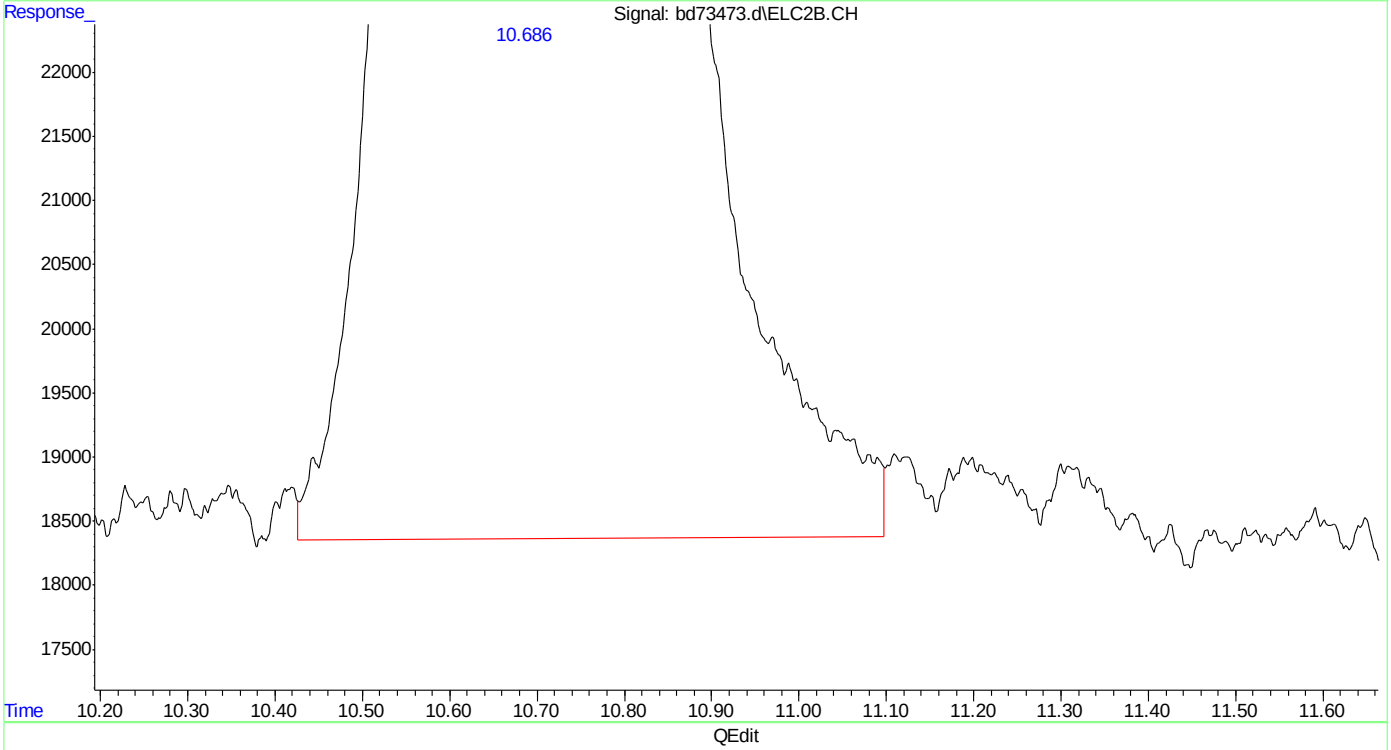
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:48:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 15:58:36
Operator : tonyf
Sample : mc45580-2ms,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:03 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.686min 51.175 ppb m
response 7886567

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:48:14 2016

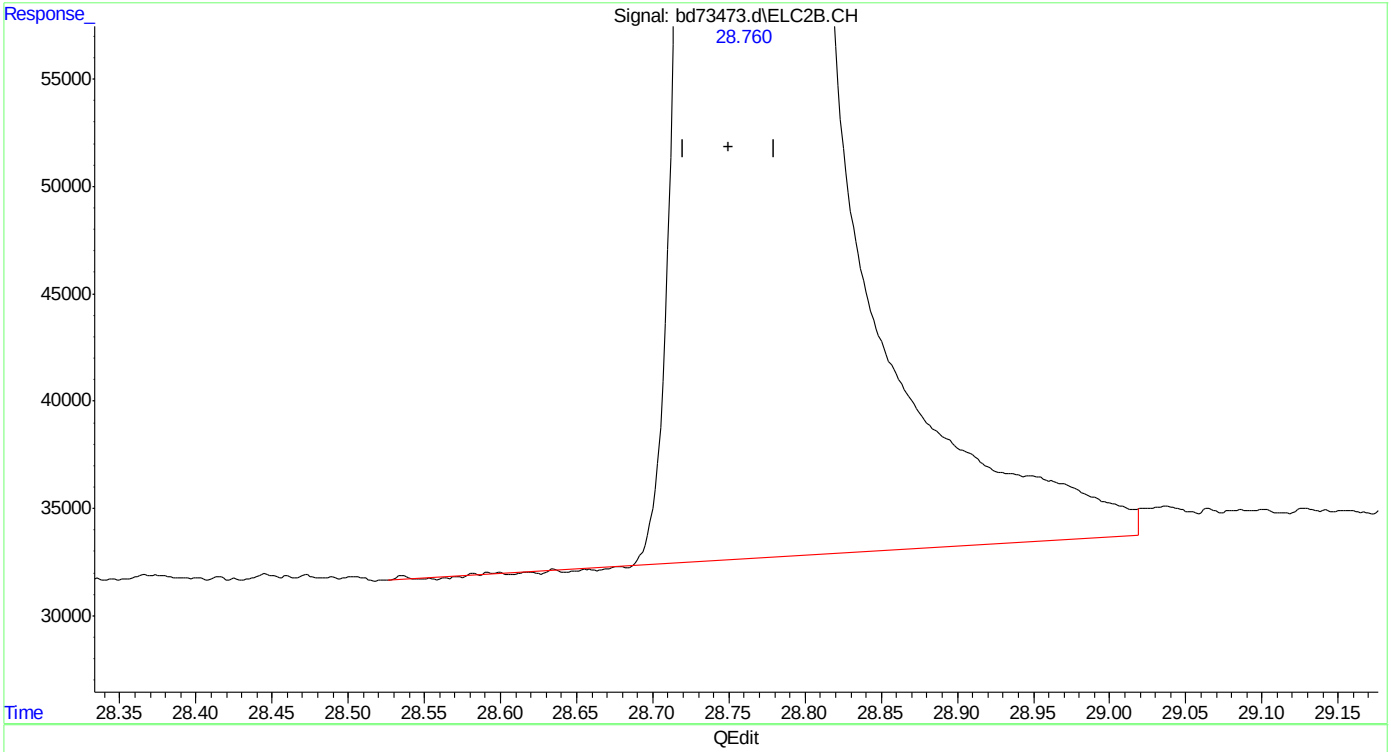
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 15:58:36
Operator  : tonyf
Sample    : mc45580-2ms,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 29 06:41:03 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 56.574 ppb

response 20426283

(+) = Expected Retention Time

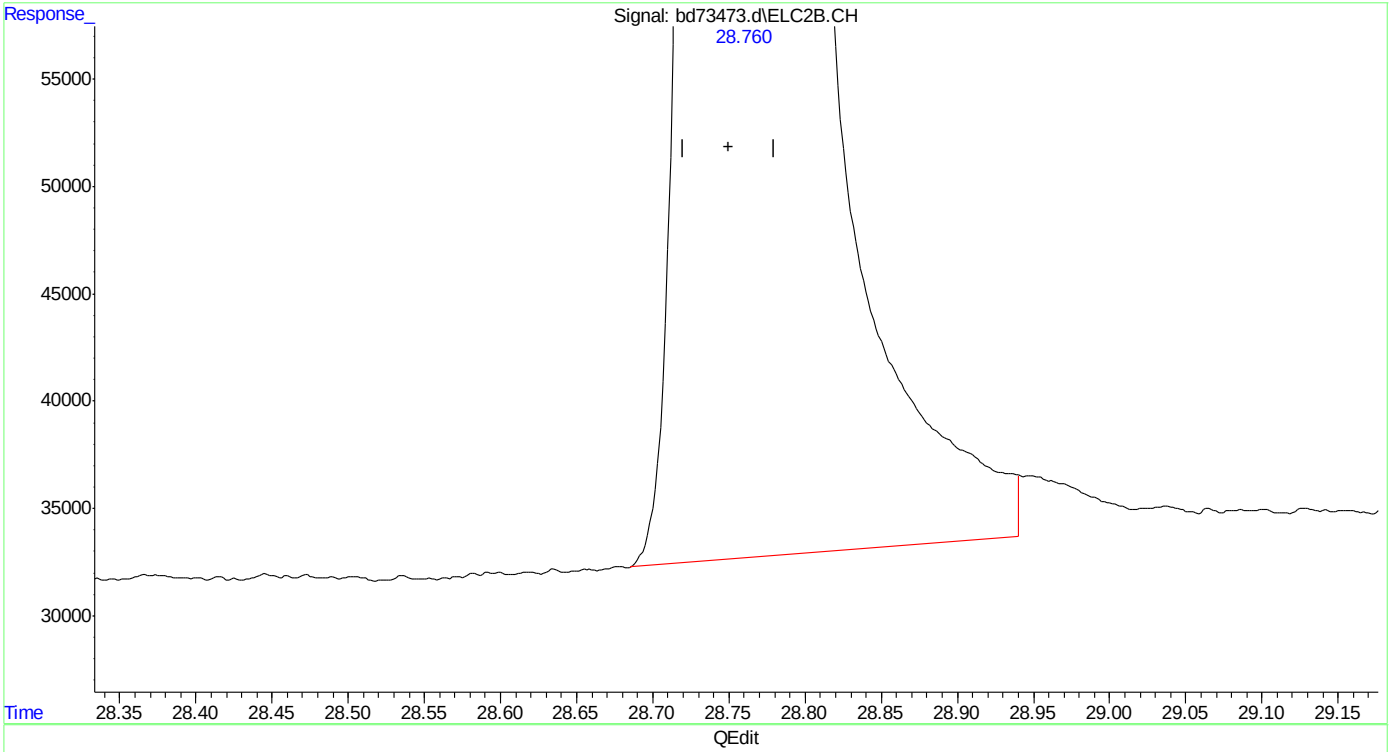
bd160428vph.M Fri Apr 29 06:48:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73473.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 15:58:36
Operator  : tonyf
Sample    : mc45580-2ms,w,vmavph,00
Misc      : gc26190,gbd3627,,,,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: Apr 29 06:41:03 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 56.236 ppb m

response 20303036

(+) = Expected Retention Time

bd160428vph.M Fri Apr 29 06:48:28 2016

SGS ACCUTEST MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73474.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 16:38:40
Operator : tonyf
Sample : mc45580-2msd,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:49:24 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	32296169	47.466	ppb	
Spiked Amount 50.000		Recovery = 94.93%			
6) s 2,3,4-trifluorotoluene	21.242	26130525	50.154	ppb	
Spiked Amount 50.000		Recovery = 100.31%			
16) s fluorobenzene #2	16.427	13869475	40.882	ppb	
Spiked Amount 50.000		Recovery = 81.76%			
18) s 2,3,4-trifluorotoluen...	21.242	8333261	42.332	ppb	
Spiked Amount 50.000		Recovery = 84.66%			
Target Compounds					
1) h rt5.5-7	7.470	26294606	42.634	ppb	m
2) h rt7/10	9.920	46970659	76.159	ppb	m
3) h rt10/13	15.200	114949274	186.380	ppb	
8) h rt20/25	22.840	338010516	422.395	ppb	m
14) mtbe #2	10.685	7696951	49.945	ppb	m
15) benzene #2	15.934	22501813	46.529	ppb	
17) toluene #2	20.225	20932247	46.237	ppb	
19) ethylbenzene #2	23.177	18594053	44.804	ppb	
20) m,p-xylene #2	23.313	44868628	90.018	ppb	
21) o-xylene #2	24.035	18957684	43.602	ppb	
23) 1,2,4-trimethylbenzen...	25.754	21106884	42.911	ppb	
24) naphthalene #2	28.760	20866271	57.781	ppb	
25) h c9-c10 arom as 1,2,4-tmb	25.777	66953179	136.181	ppb	m

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

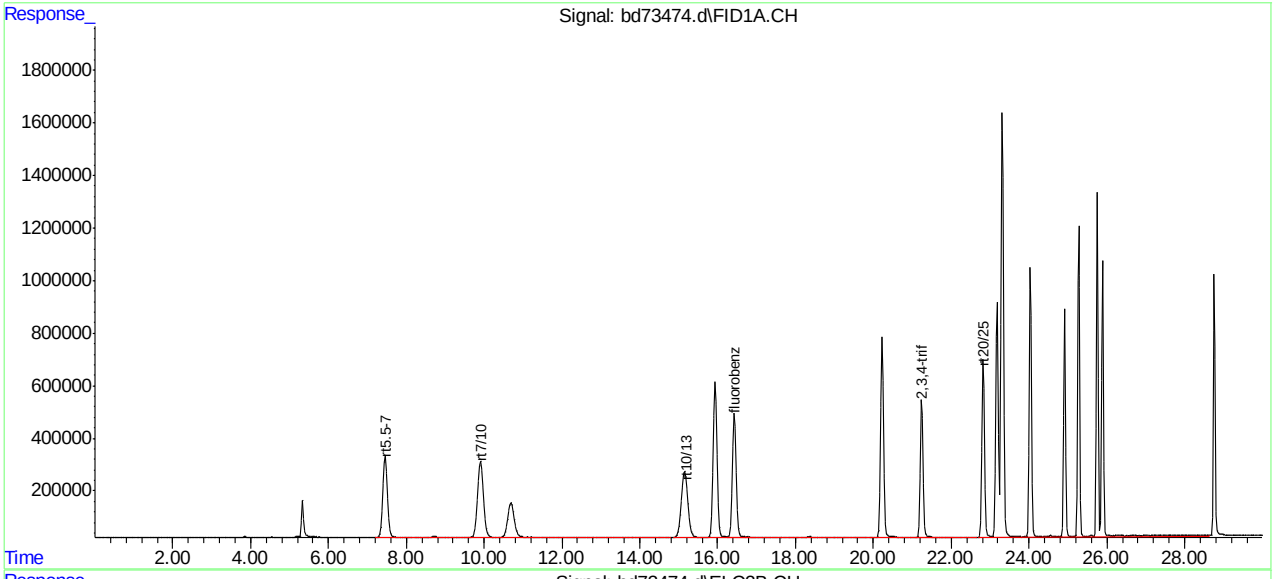
SGS ACCUTEST MC45580

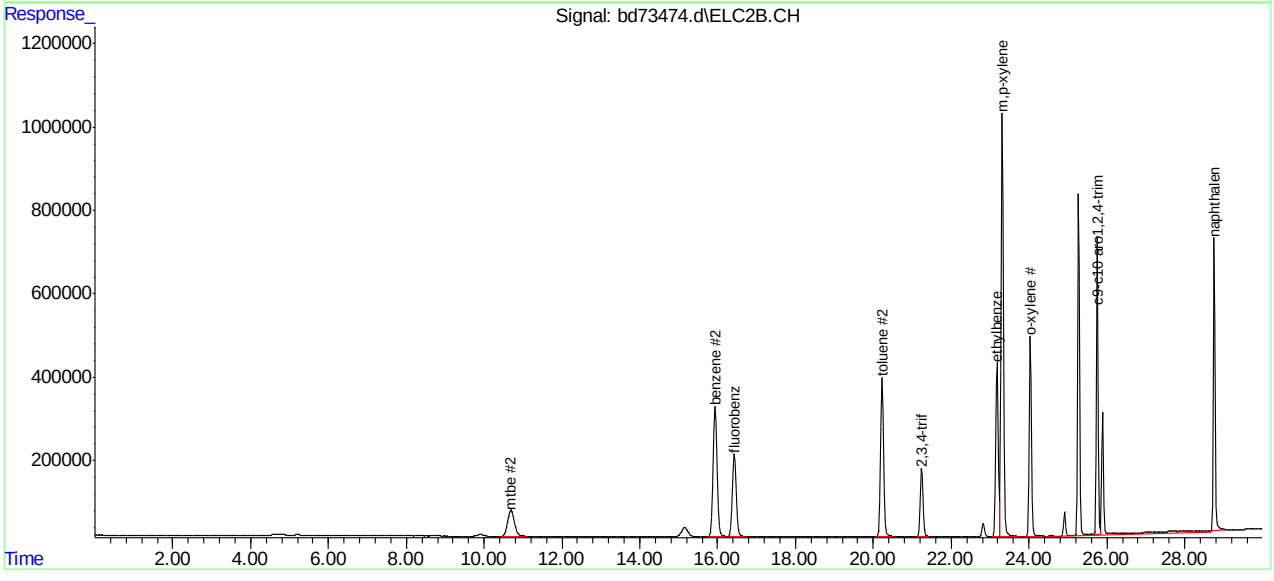
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73474.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 16:38:40
Operator : tonyf
Sample : mc45580-2msd,w,vmavph,00
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

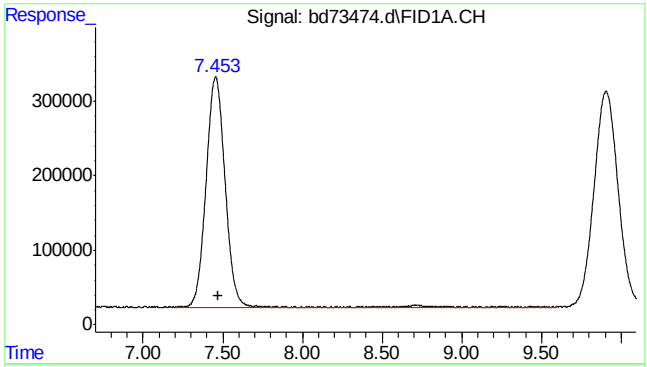
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 06:49:24 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.M
Quant Title : vph nap linear regression inverse
QLast Update : Fri Feb 19 13:40:08 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



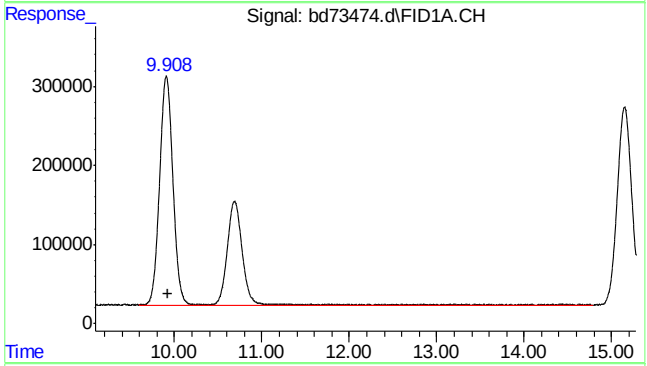


SGS ACCUTEST MC45580



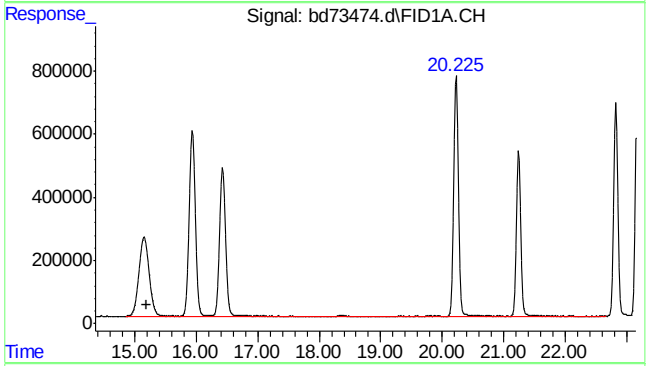
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 26294606
Conc: 42.63 ppb m



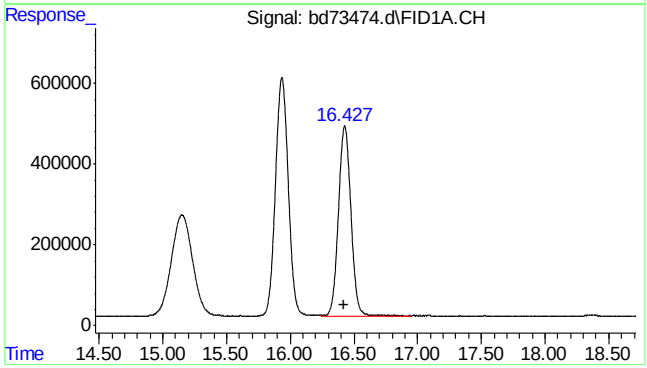
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 46970659
Conc: 76.16 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 114949274
Conc: 186.38 ppb



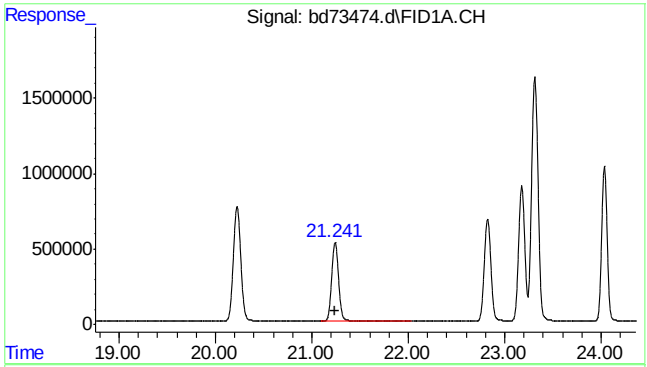
#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 32296169
Conc: 47.47 ppb

7.4.2

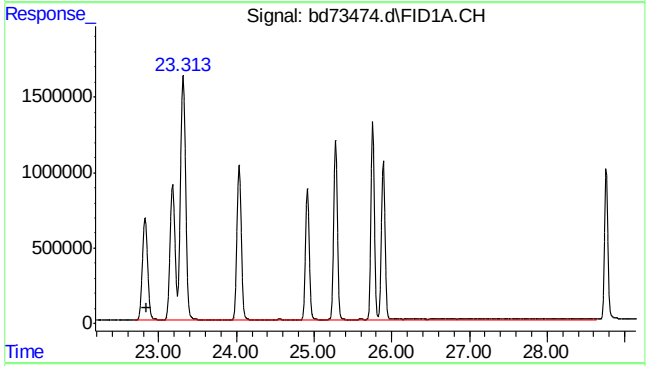
7

SGS ACCUTEST MC45580



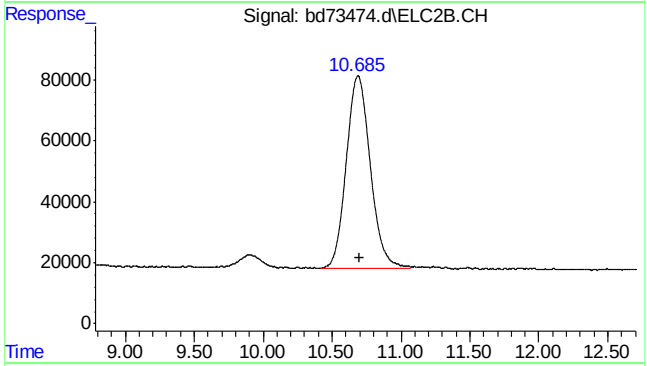
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26130525
Conc: 50.15 ppb



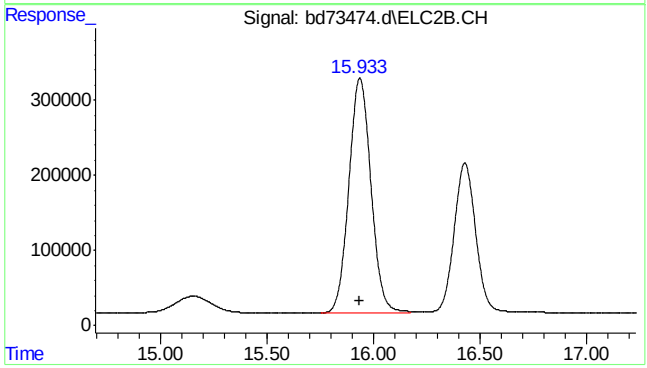
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 338010516
Conc: 422.40 ppb m



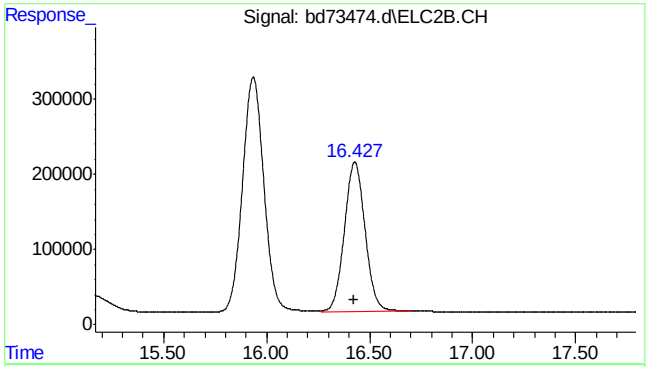
#14 mtbe #2

R.T.: 10.685 min
Delta R.T.: -0.011 min
Response: 7696951
Conc: 49.95 ppb m



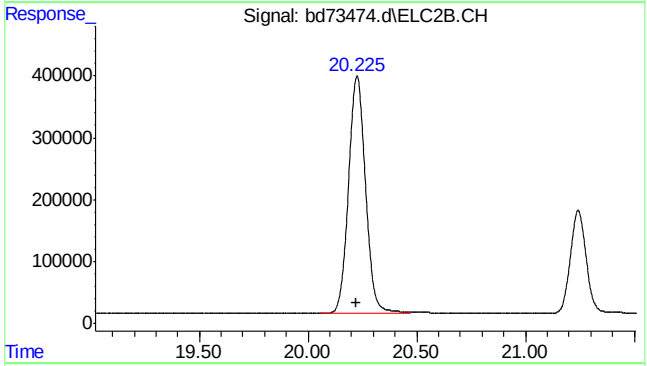
#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 22501813
Conc: 46.53 ppb



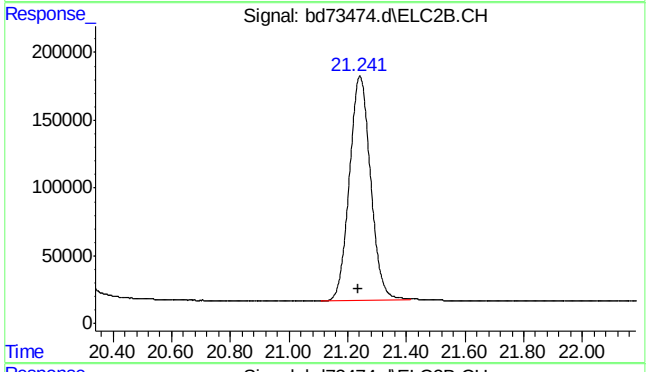
#16 fluorobenzene #2

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 13869475
Conc: 40.88 ppb



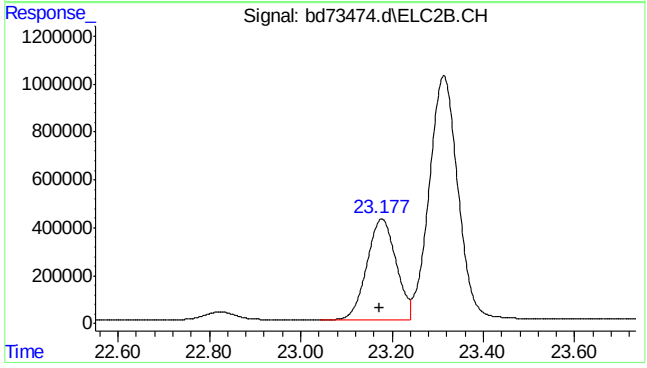
#17 toluene #2

R.T.: 20.225 min
Delta R.T.: 0.004 min
Response: 20932247
Conc: 46.24 ppb



#18 2,3,4-trifluorotoluene #2

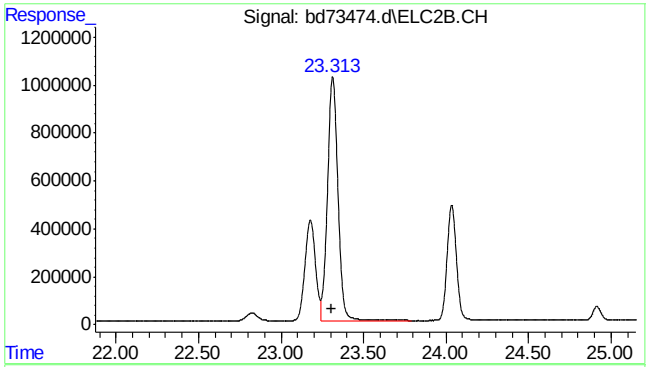
R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 8333261
Conc: 42.33 ppb



#19 ethylbenzene #2

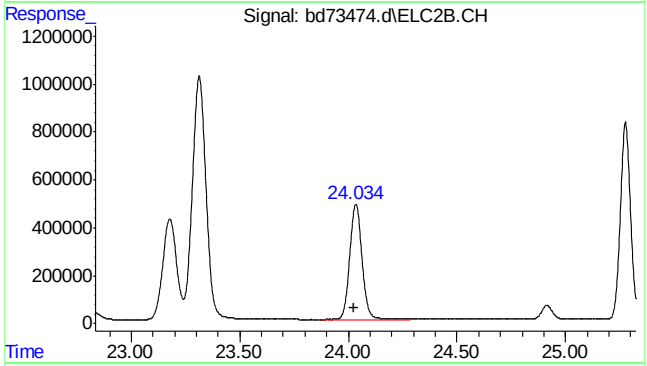
R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18594053
Conc: 44.80 ppb

SGS ACCUTEST MC45580



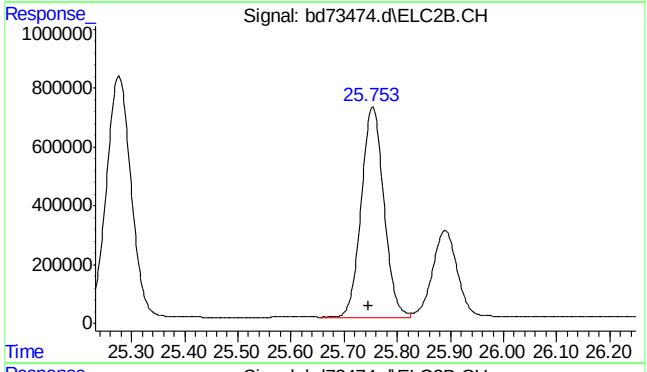
#20 m,p-xylene #2

R.T.: 23.313 min
Delta R.T.: 0.006 min
Response: 44868628
Conc: 90.02 ppb



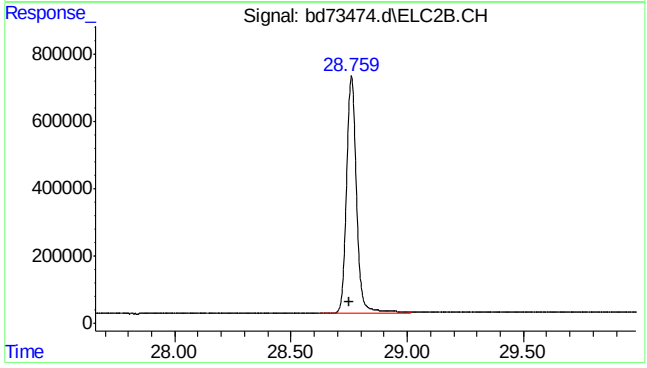
#21 o-xylene #2

R.T.: 24.035 min
Delta R.T.: 0.007 min
Response: 18957684
Conc: 43.60 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21106884
Conc: 42.91 ppb



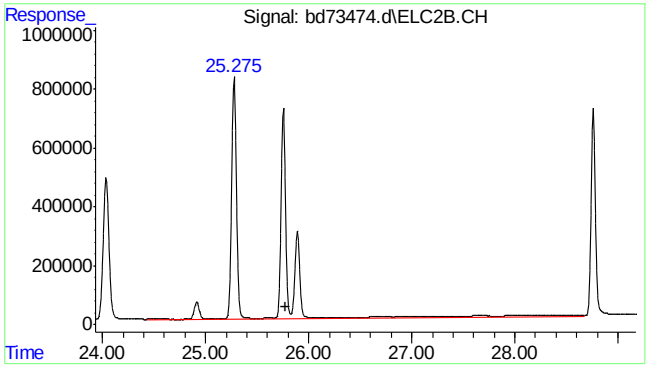
#24 naphthalene #2

R.T.: 28.760 min
Delta R.T.: 0.010 min
Response: 20866271
Conc: 57.78 ppb

7.4.2

7

SGS ACCUTEST MC45580



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 66953179
Conc: 136.18 ppb m

7.4.2

7

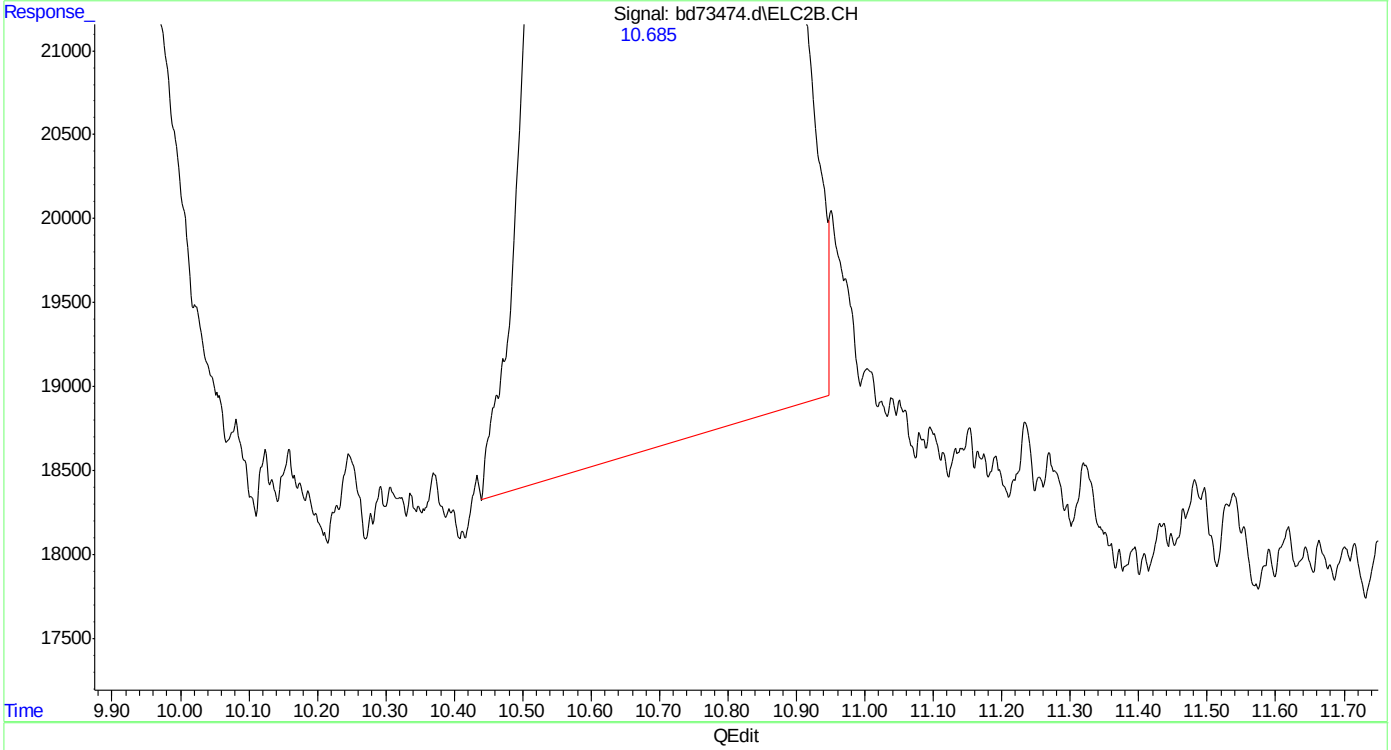
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73474.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 16:38:40
Operator : tonyf
Sample : mc45580-2msd,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:10 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.686min 48.321 ppb
response 7446625

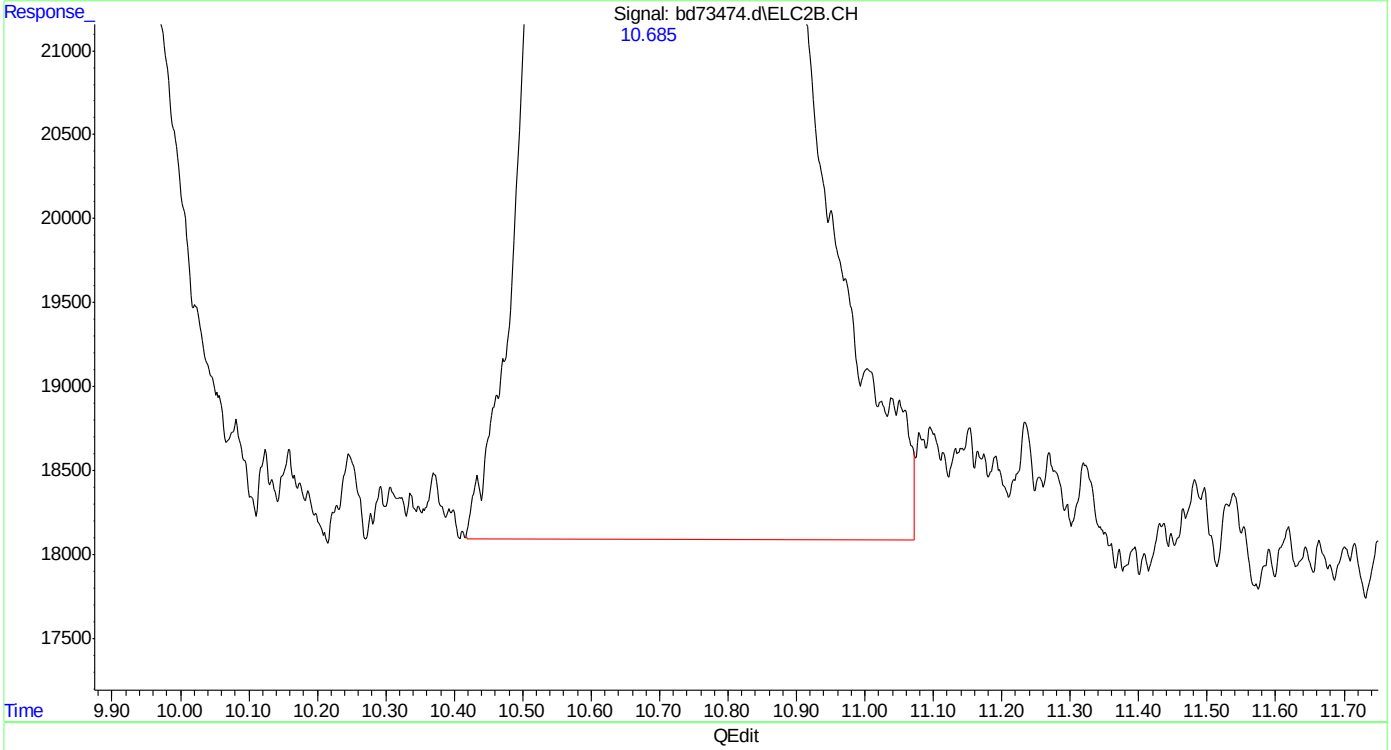
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:49:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73474.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 16:38:40
Operator : tonyf
Sample : mc45580-2msd,w,vmavph,00
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:10 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.685min 49.945 ppb m
response 7696951

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:49:12 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 : 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

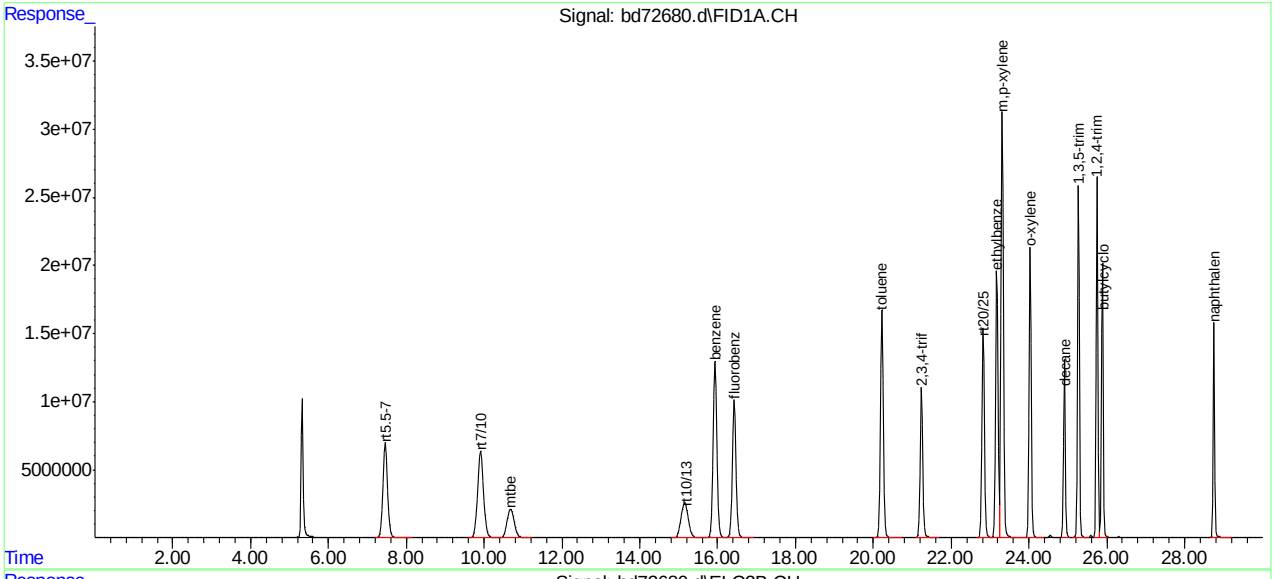
(f)=RT Delta > 1/2 Window (m)=manual int.

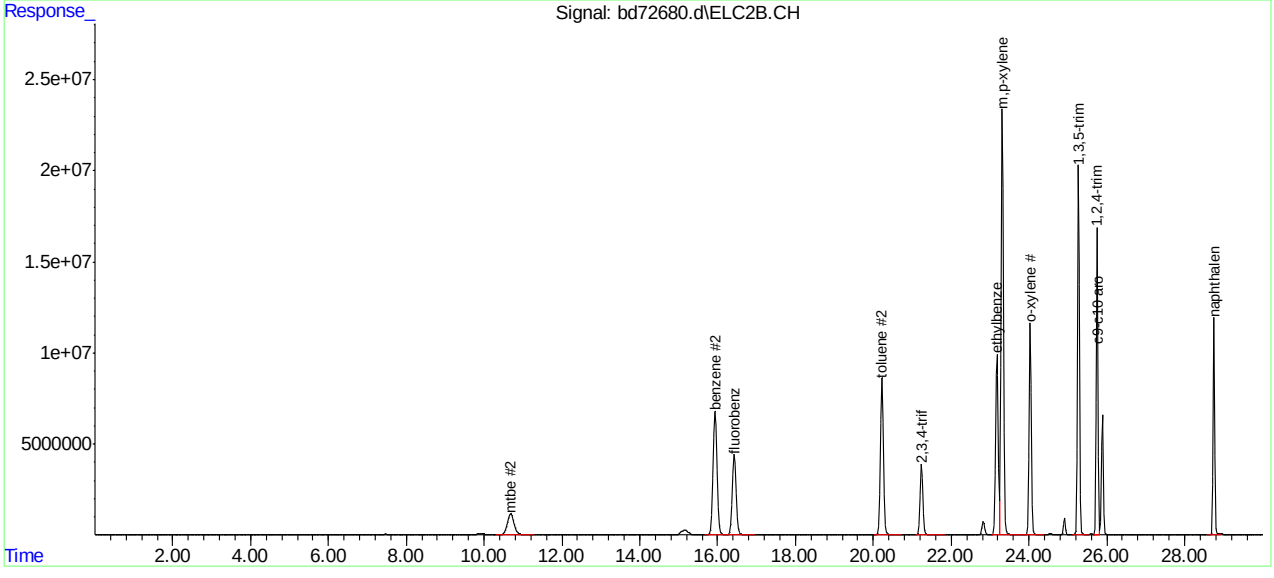
Quantitation Report (QT Reviewed)

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

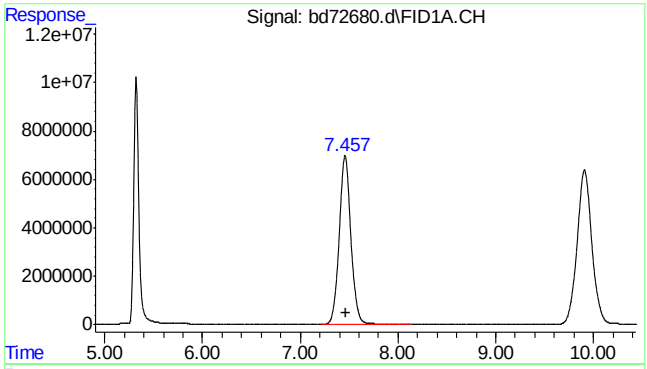
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:23:42 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:21:12 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



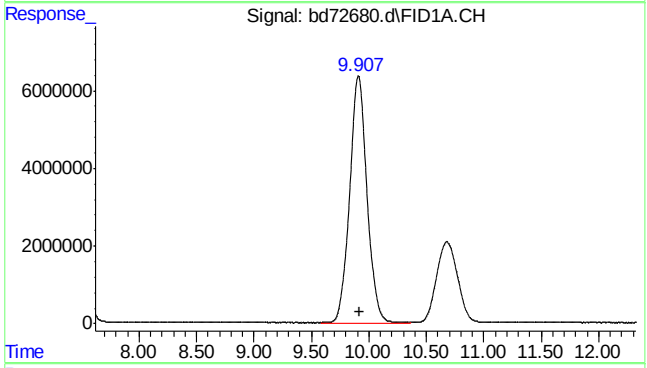


SGS ACCUTEST MC45580



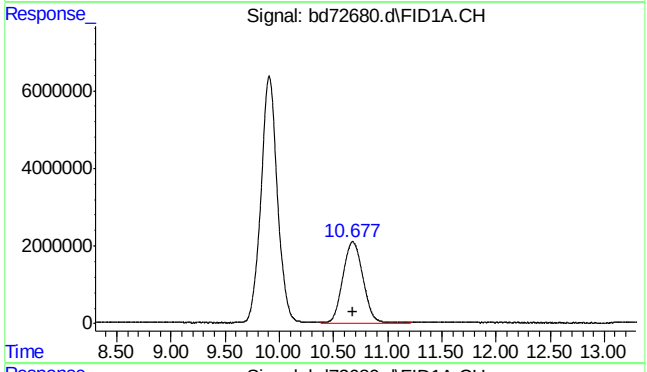
#1 rt5.5-7

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



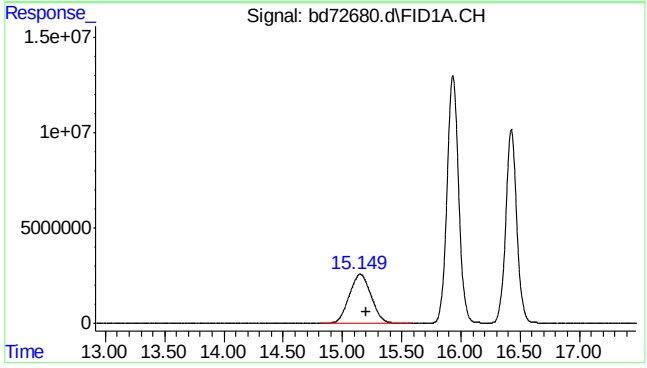
#2 rt7/10

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



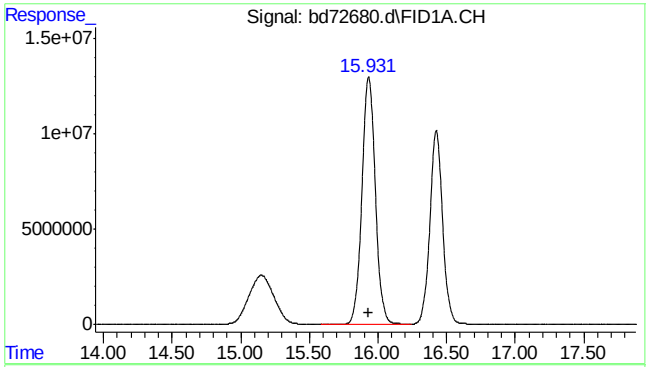
#3 mtbe

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



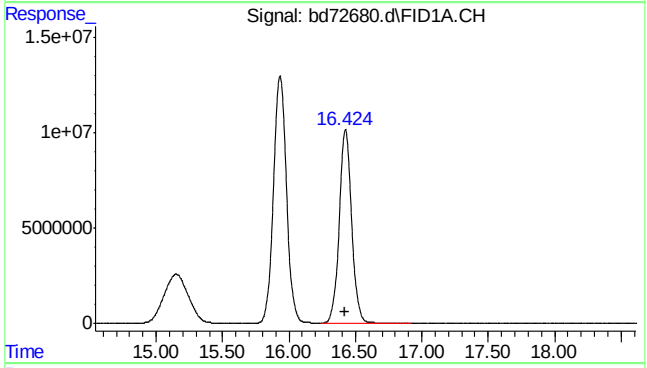
#4 rt10/13

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



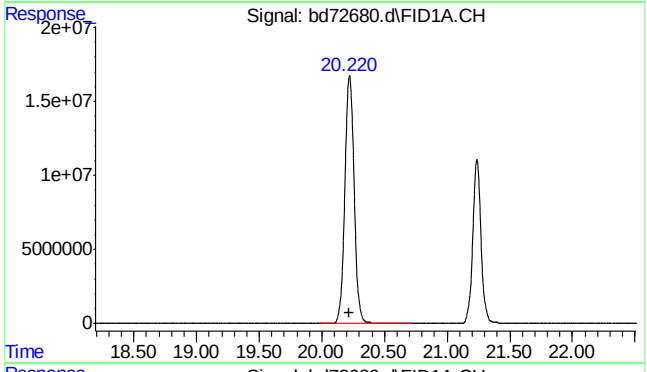
#5 benzene

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



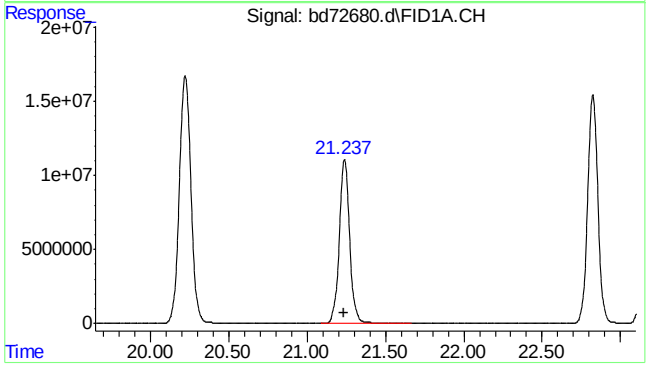
#6 fluorobenzene

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



#8 toluene

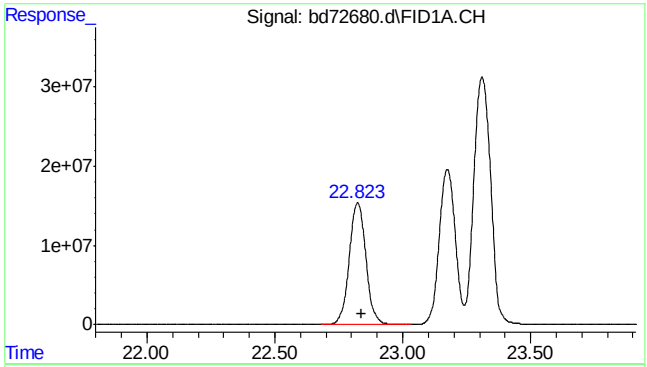
R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 861485080
Conc: 1108.96 ppb



#9 2,3,4-trifluorotoluene

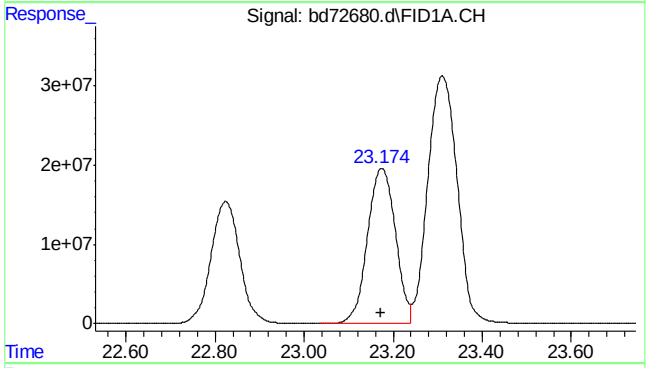
R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 506533597
Conc: 968.86 ppb

SGS ACCUTEST MC45580



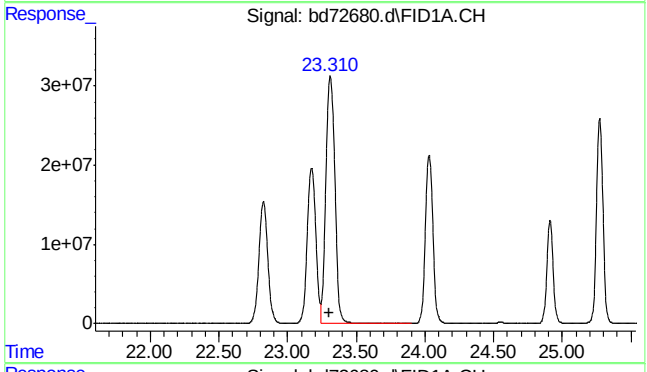
#11 rt20/25

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



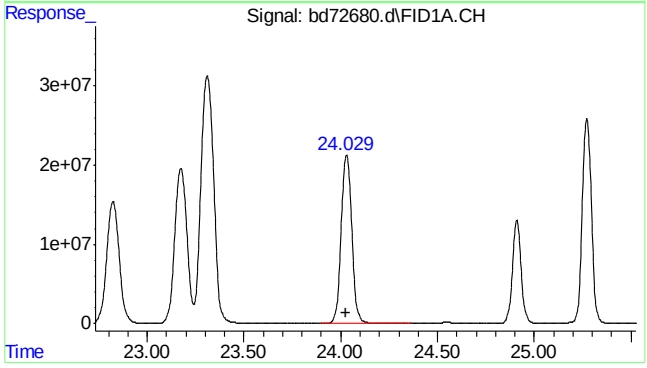
#13 ethylbenzene

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



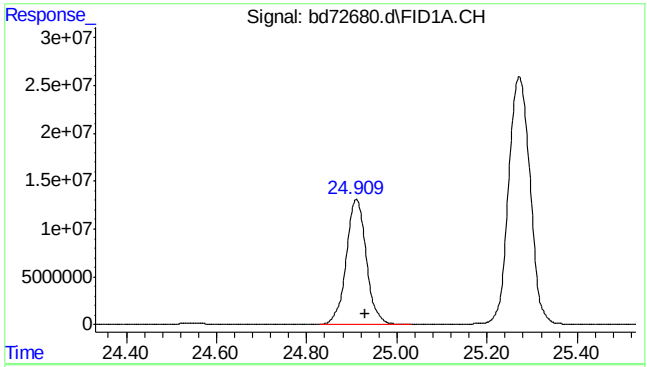
#14 m,p-xylene

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



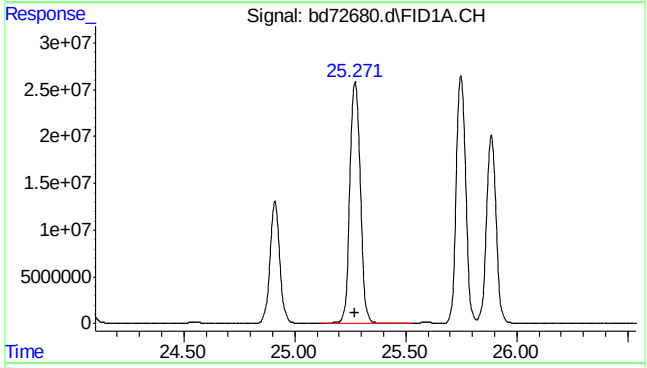
#15 o-xylene

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



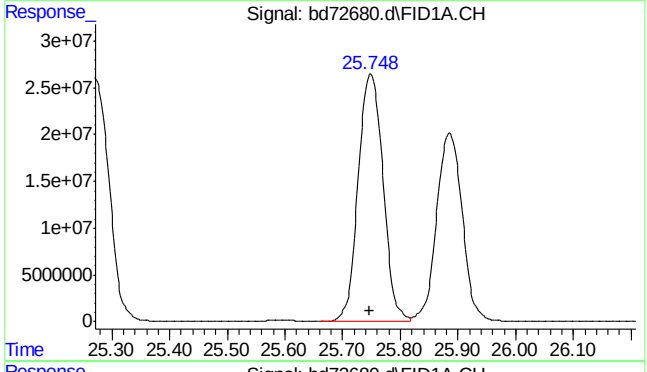
#16 decane

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



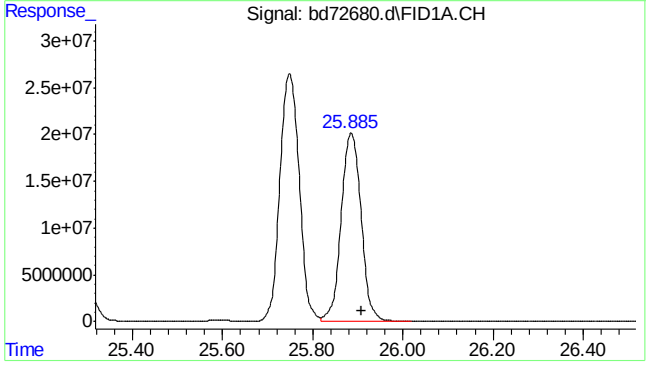
#17 1,3,5-trimethylbenzene

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

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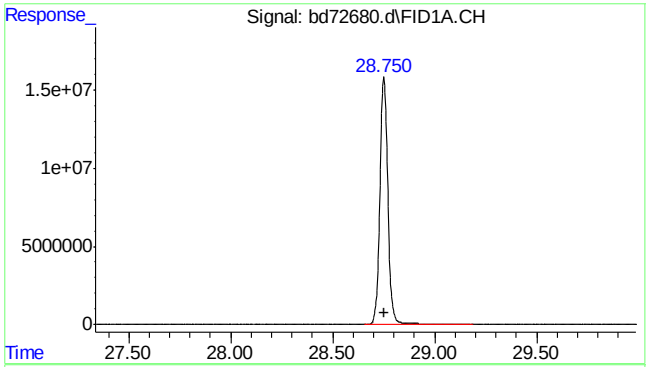
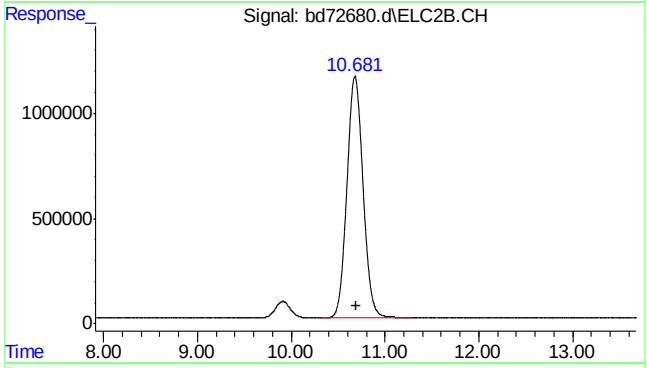


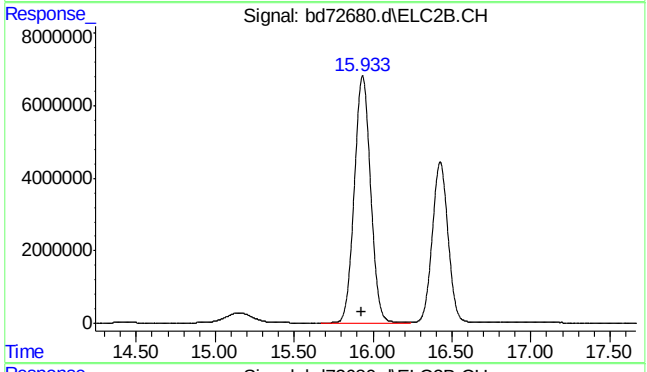
#20 naphthalene

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



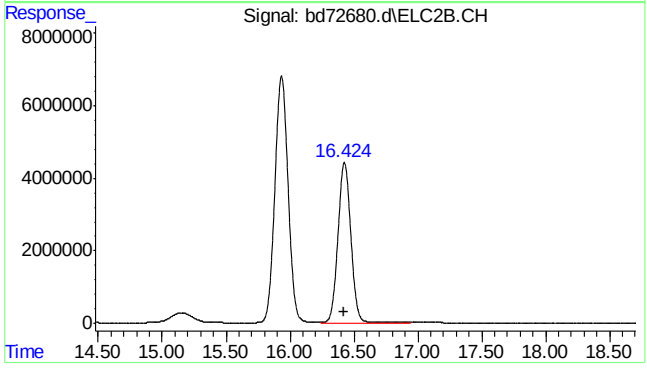
#23 mtbe #2

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



#24 benzene #2

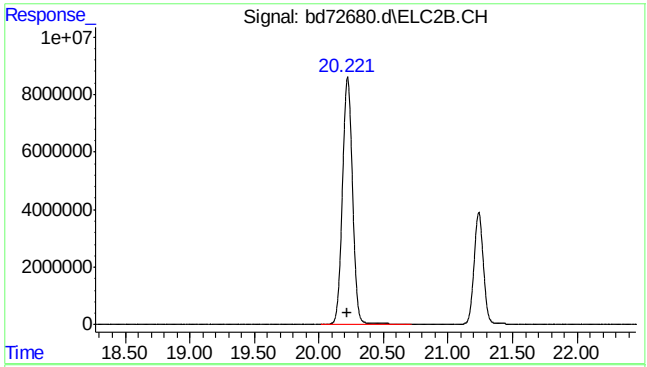
R.T.: 15.933 min
Delta R.T.: 0.001 min
Response: 486139863
Conc: 1005.90 ppb



#25 fluorobenzene #2

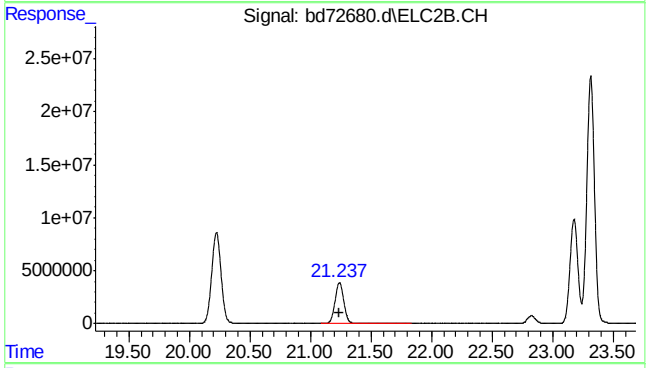
R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 307860163
Conc: 897.09 ppb

SGS ACCUTEST MC45580



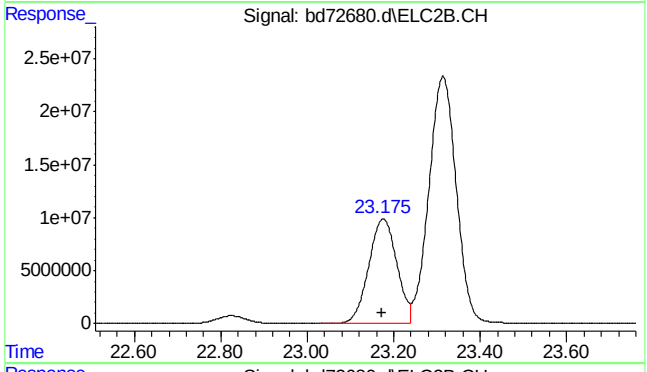
#26 toluene #2

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



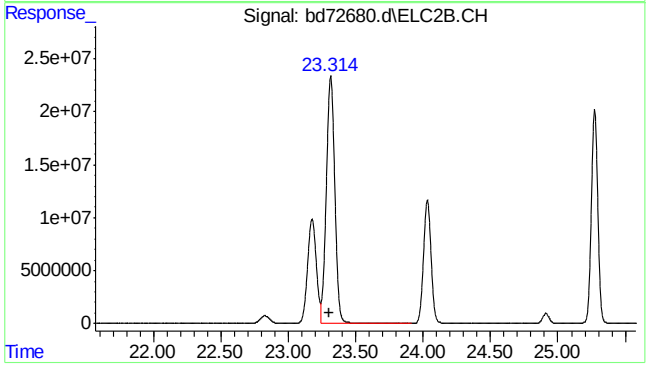
#27 2,3,4-trifluorotoluene #2

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



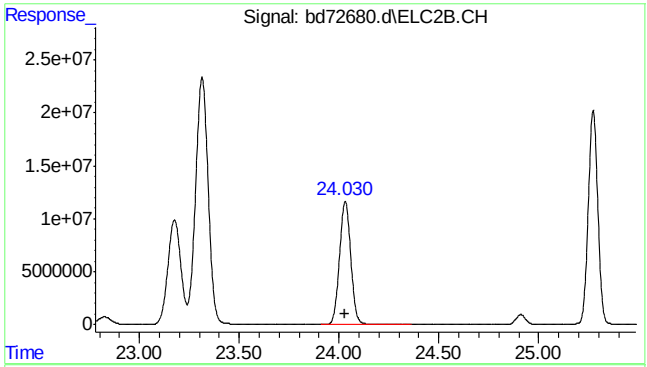
#28 ethylbenzene #2

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



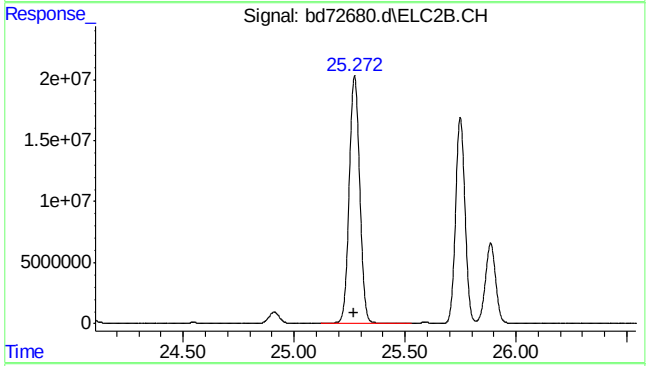
#29 m,p-xylene #2

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



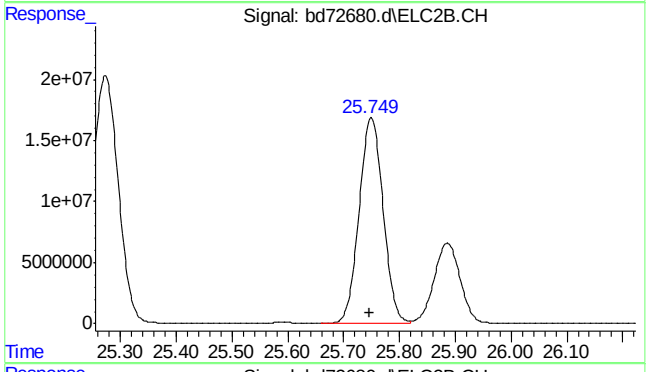
#30 o-xylene #2

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



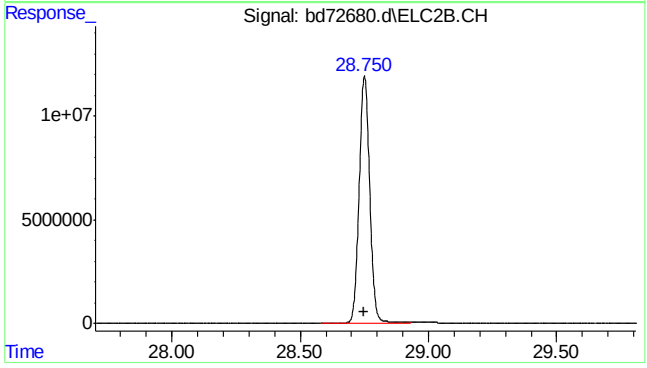
#31 1,3,5-trimethylbenzene #2

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

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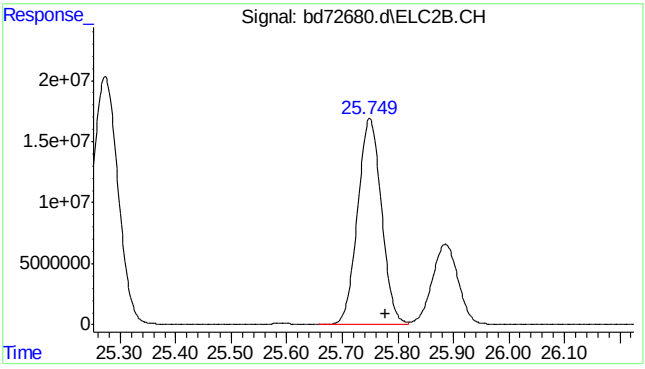



```
#34  c9-c10 arom as 1,2,4-tmb

      R.T.:   25.777 min
Delta R.T.:    0.000 min
  Response: 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

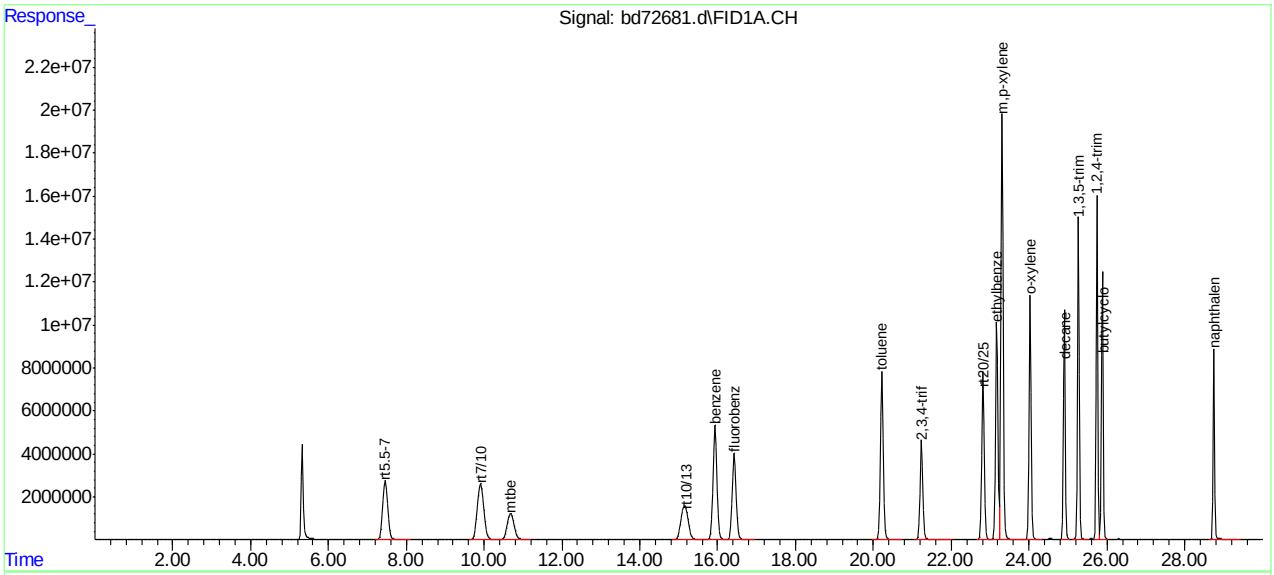
(f)=RT Delta > 1/2 Window (m)=manual int.

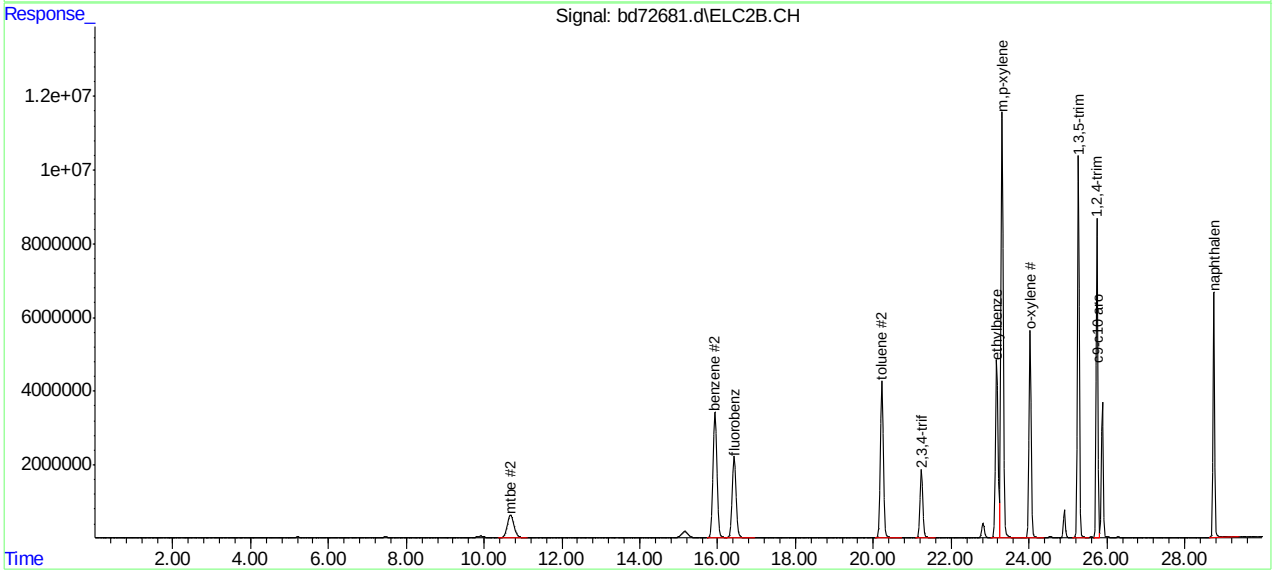
Quantitation Report (QT Reviewed)

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

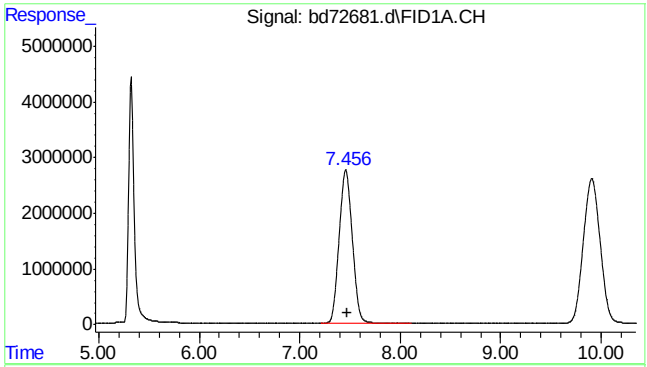
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:20:50 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:19:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



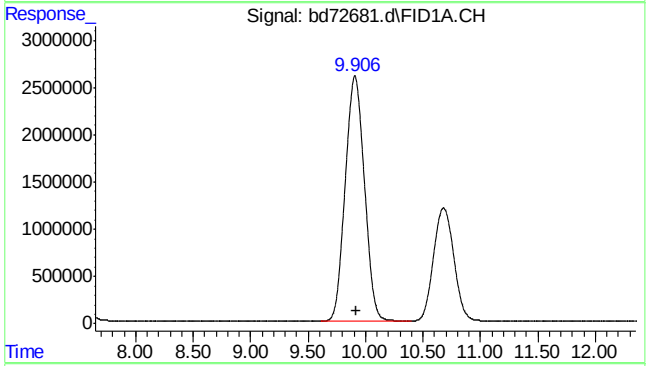


SGS ACCUTEST MC45580



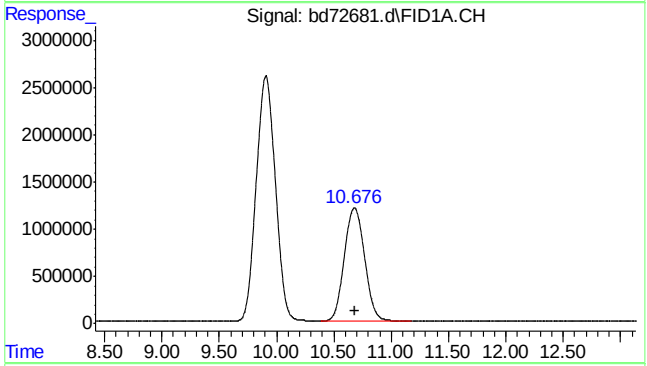
#1 rt5.5-7

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



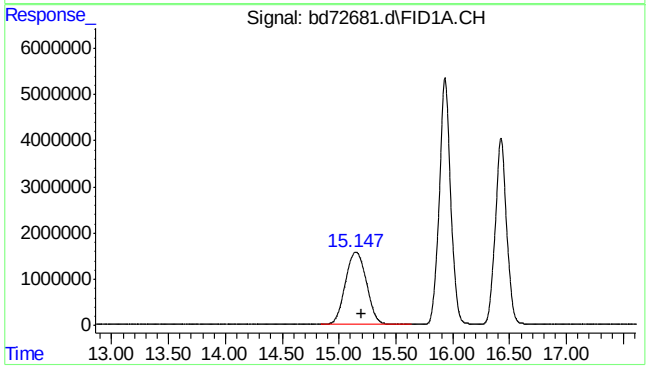
#2 rt7/10

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



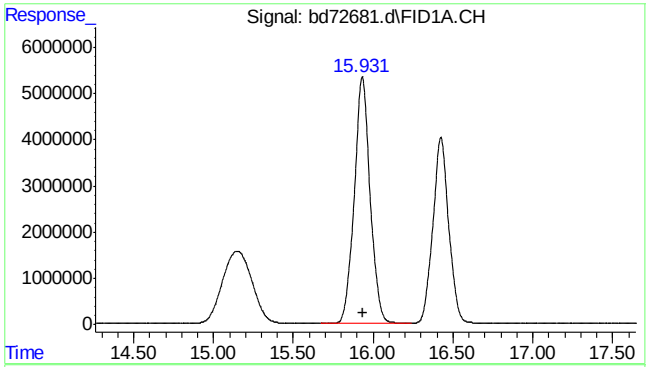
#3 mtbe

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



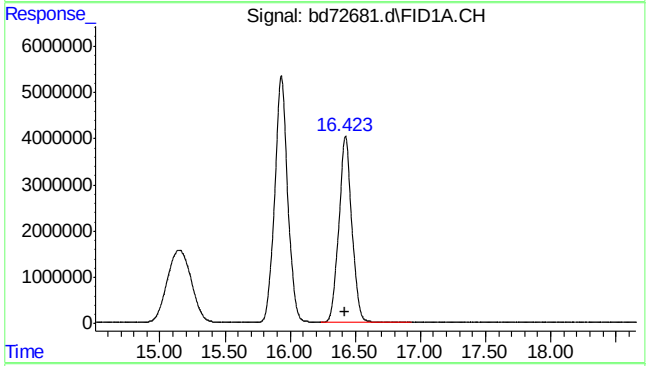
#4 rt10/13

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



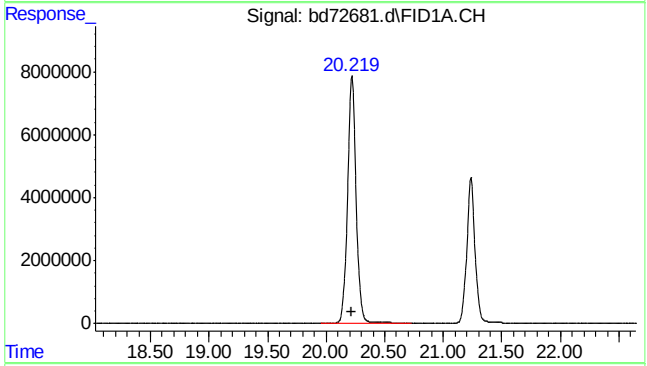
#5 benzene

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



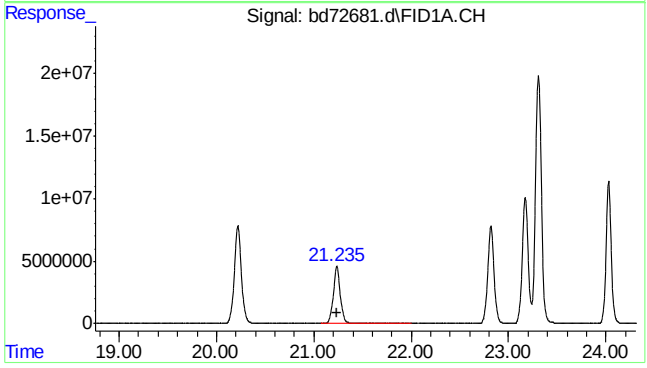
#6 fluorobenzene

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

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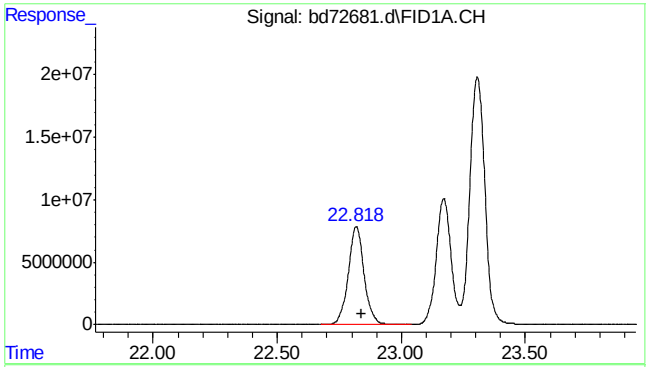
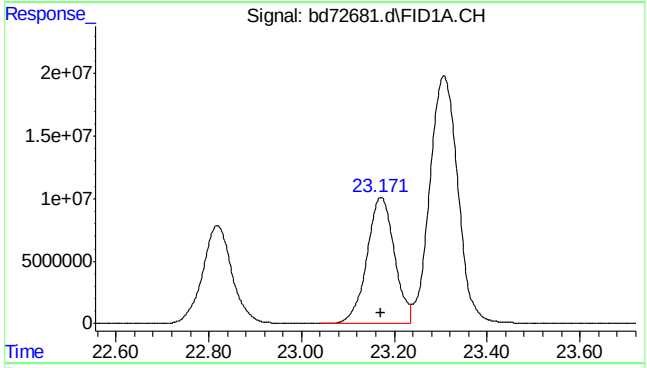


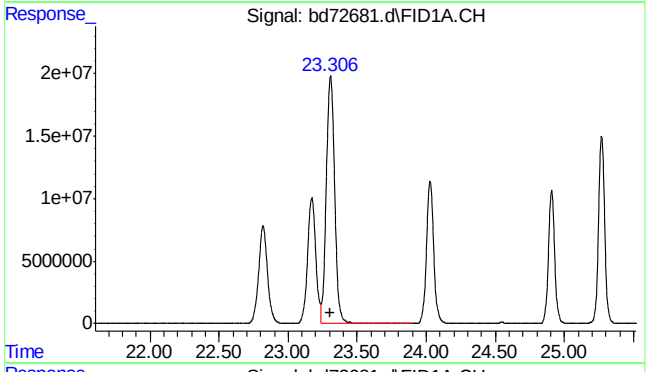
#11 rt20/25

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



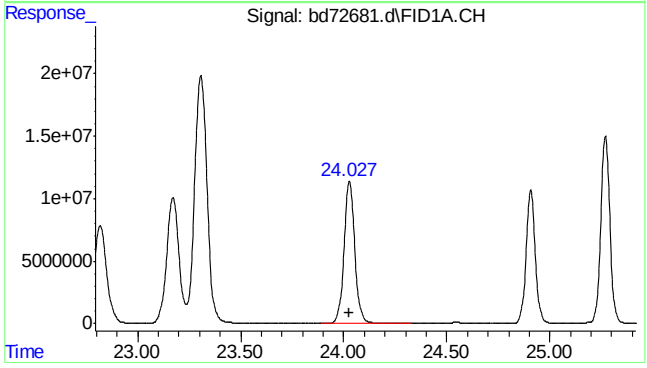
#13 ethylbenzene

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



#14 m,p-xylene

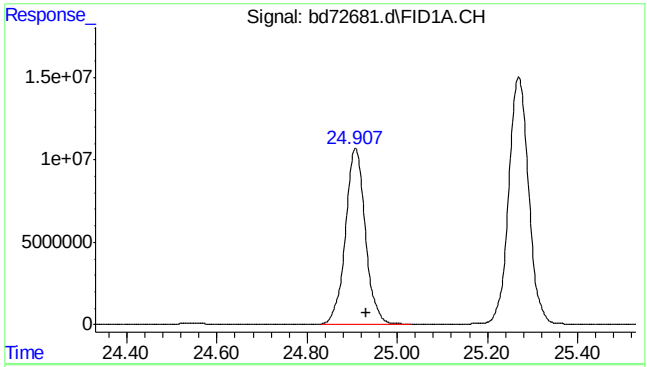
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 837537821
Conc: 1013.41 ppb



#15 o-xylene

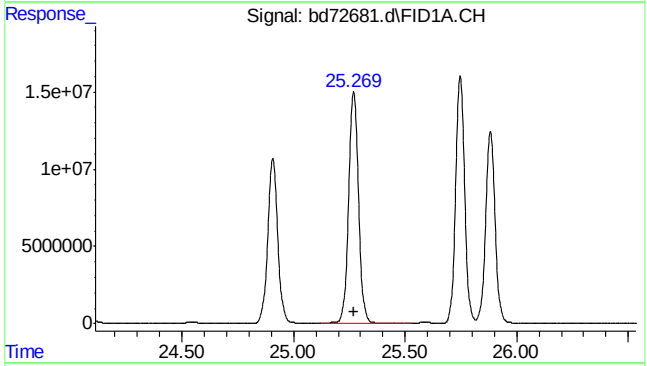
R.T.: 24.028 min
Delta R.T.: -0.001 min
Response: 409323205
Conc: 488.46 ppb

SGS ACCUTEST MC45580



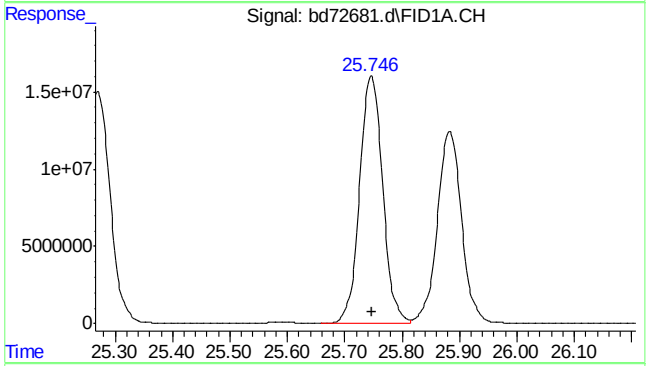
#16 decane

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



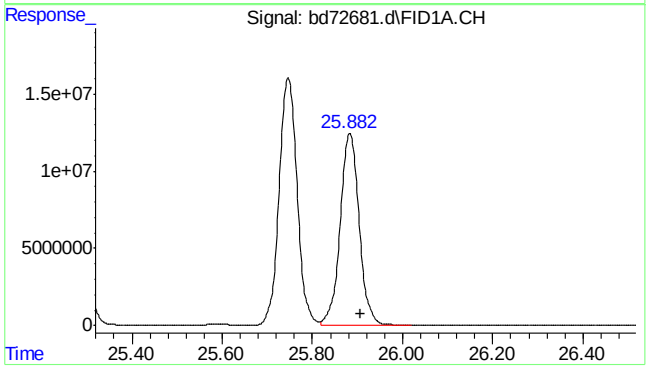
#17 1,3,5-trimethylbenzene

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



#18 1,2,4-trimethylbenzene

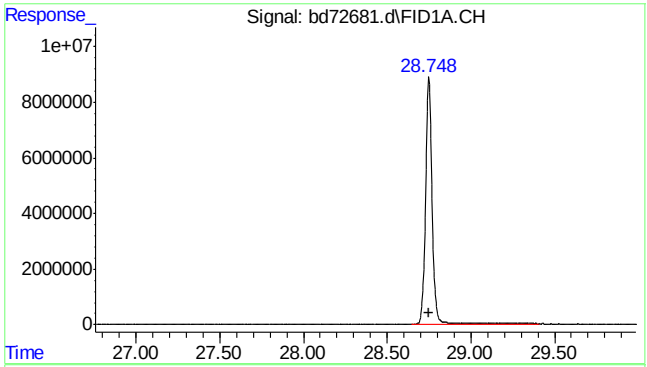
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 446599621
Conc: 505.87 ppb



#19 butylcyclohexane

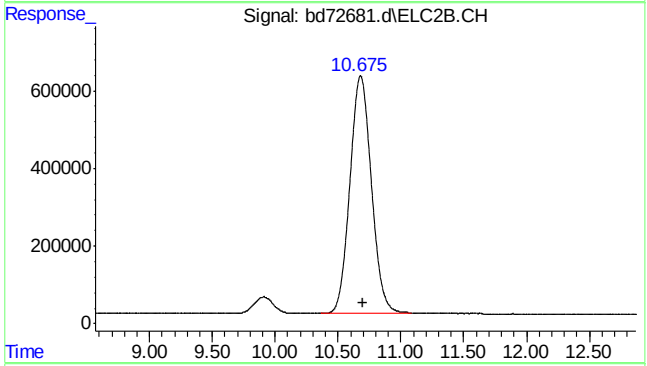
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 364778065
Conc: 372.76 ppb

SGS ACCUTEST MC45580



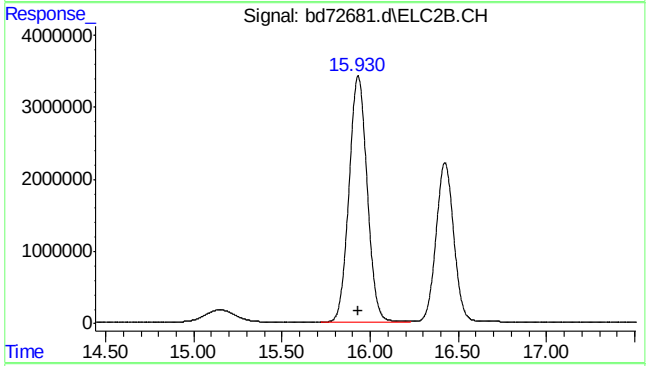
#20 naphthalene

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



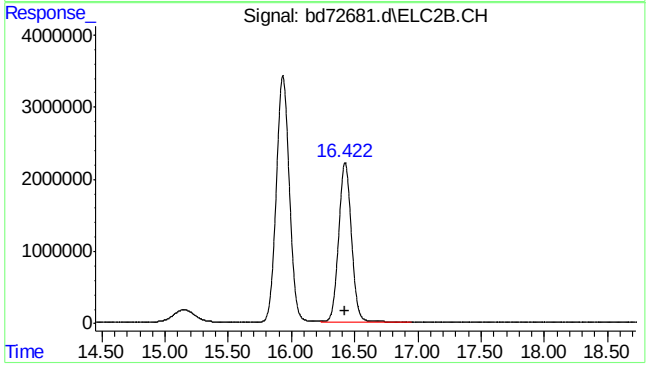
#23 mtbe #2

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



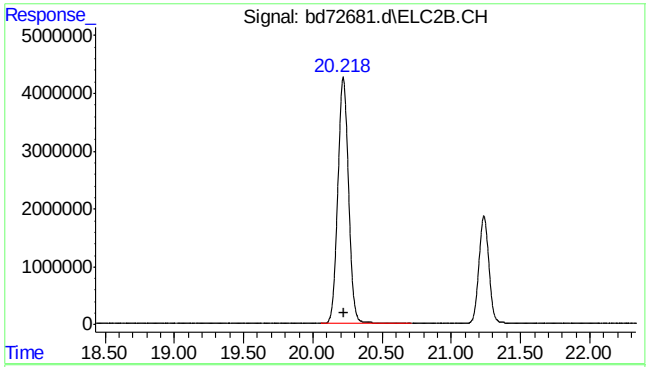
#24 benzene #2

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



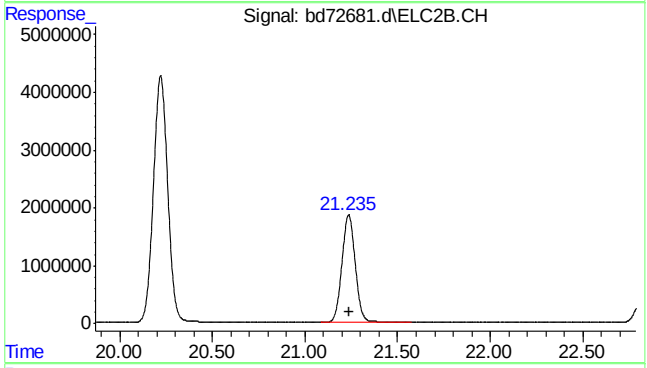
#25 fluorobenzene #2

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



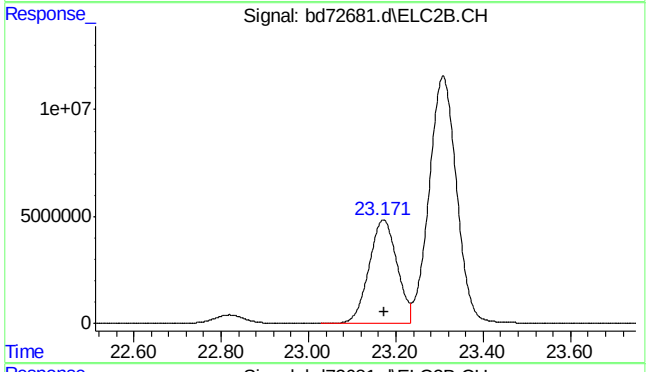
#26 toluene #2

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



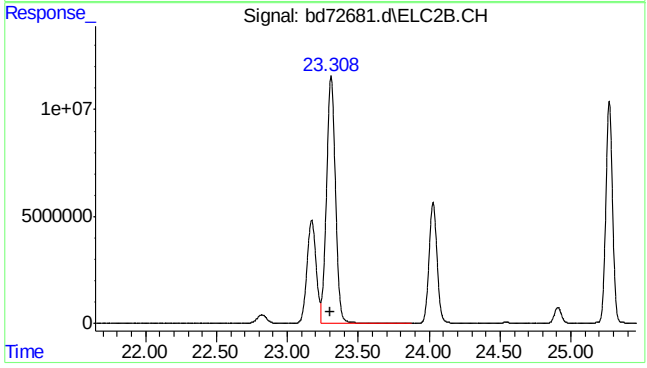
#27 2,3,4-trifluorotoluene #2

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



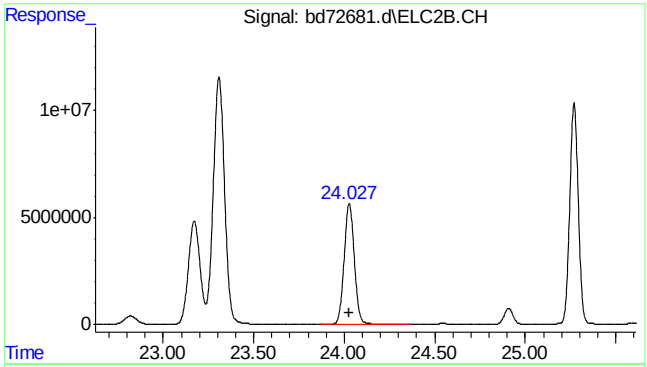
#28 ethylbenzene #2

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



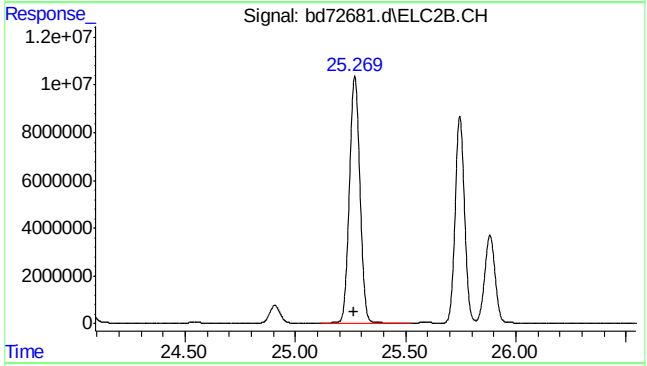
#29 m,p-xylene #2

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



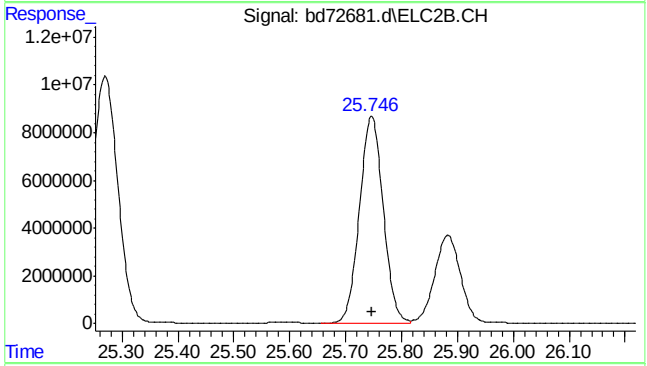
#30 o-xylene #2

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



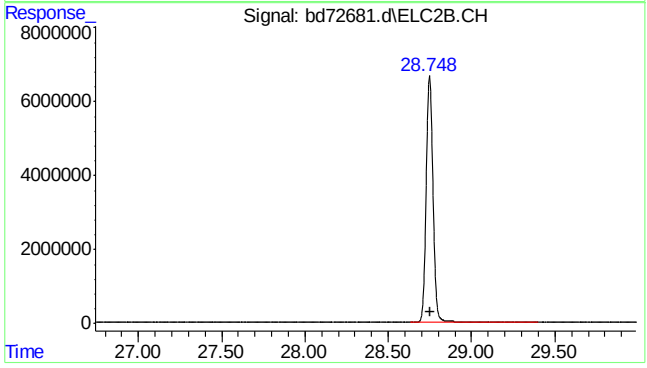
#31 1,3,5-trimethylbenzene #2

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

7.5.2

7

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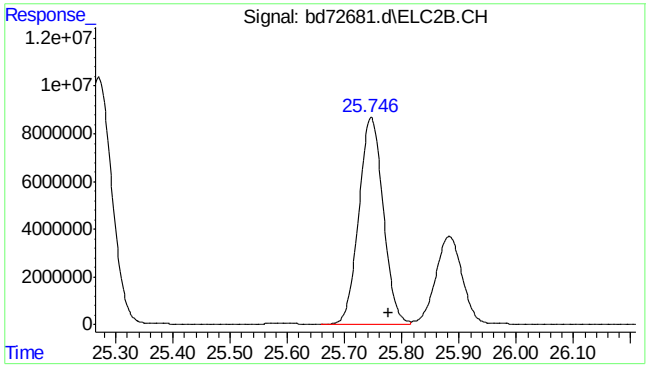



```
#34  c9-c10 arom as 1,2,4-tmb

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

7.5.2

7

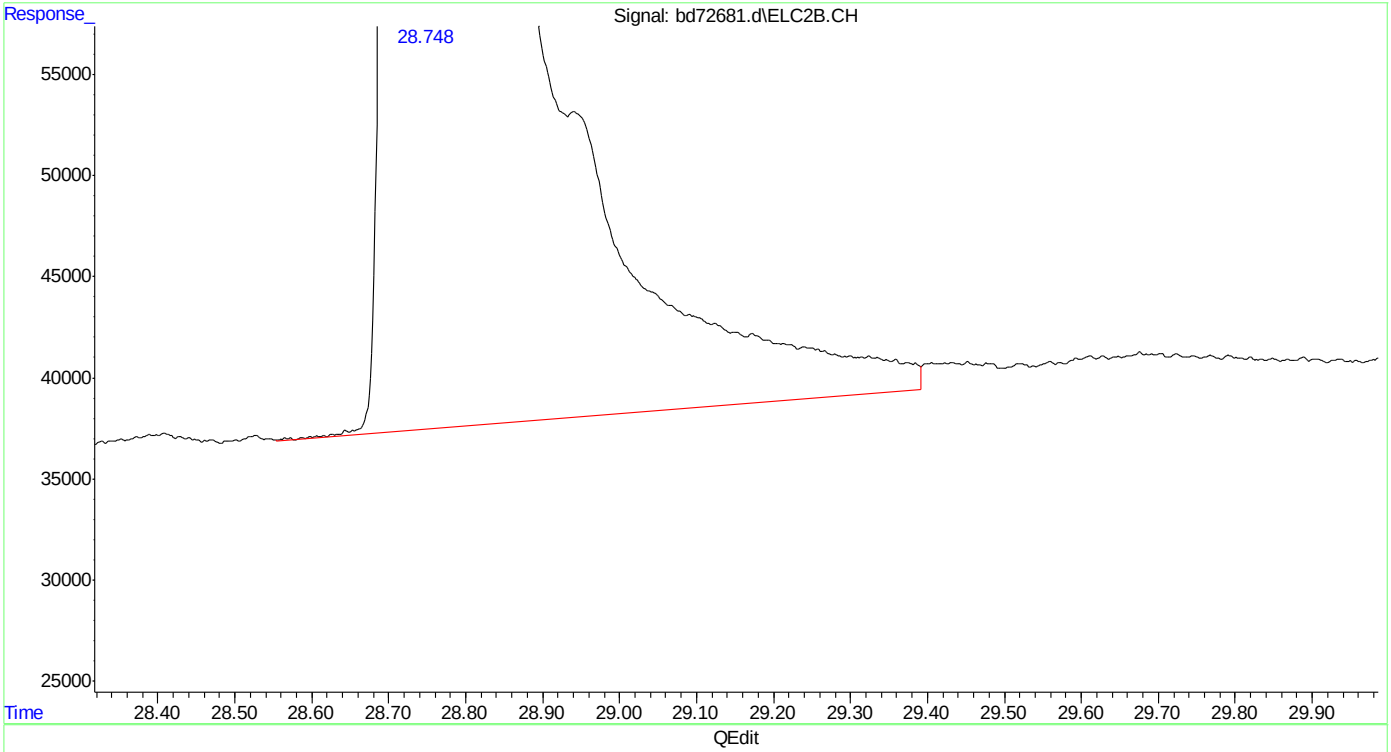
SGS ACCUTEST MC45580

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

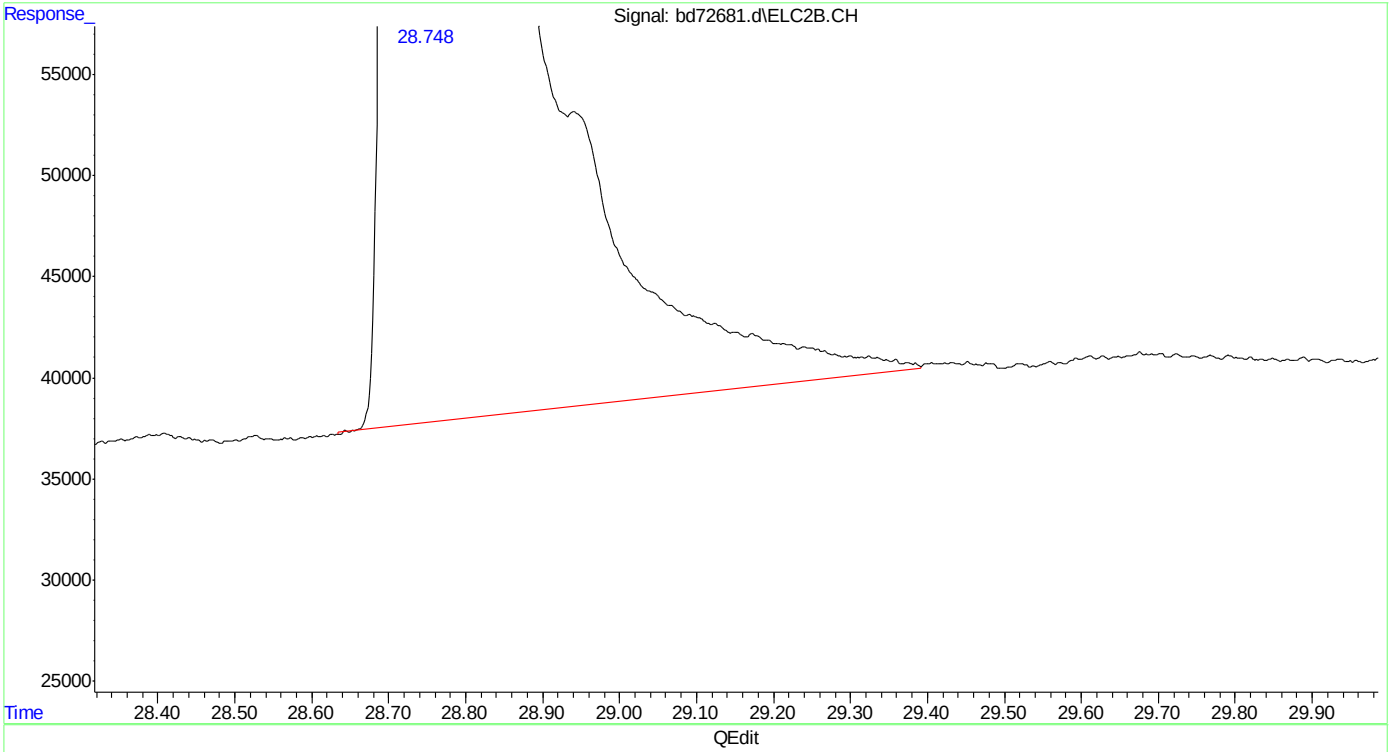
(+) = Expected Retention Time

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
bd160219master.M Fri Feb 19 13:20:32 2016 Page: 1

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.

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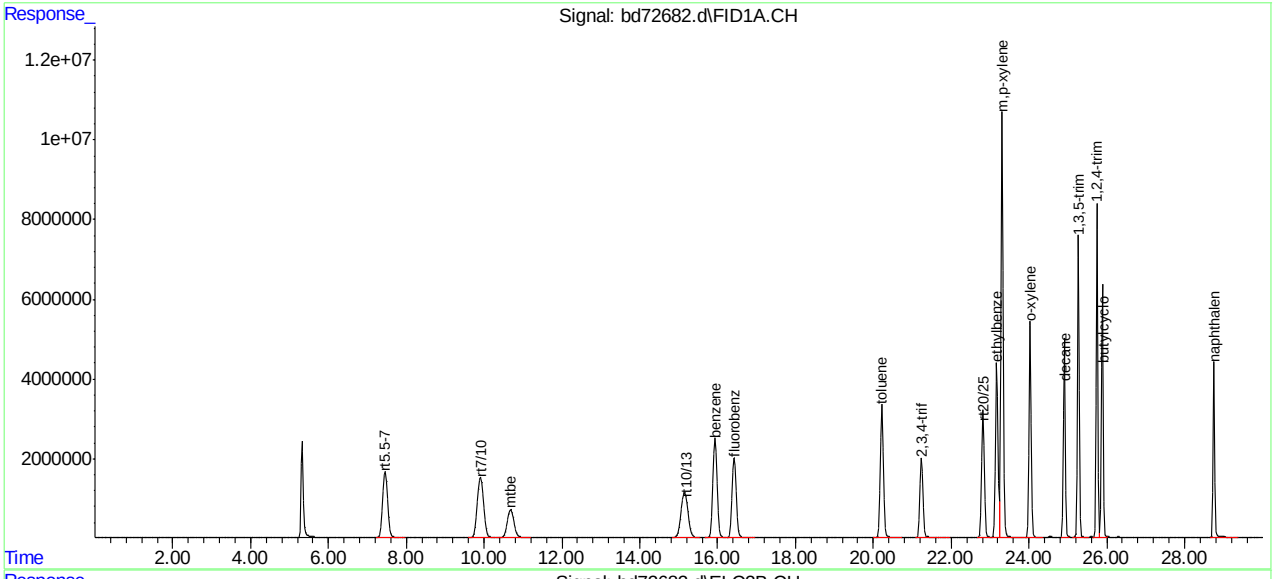
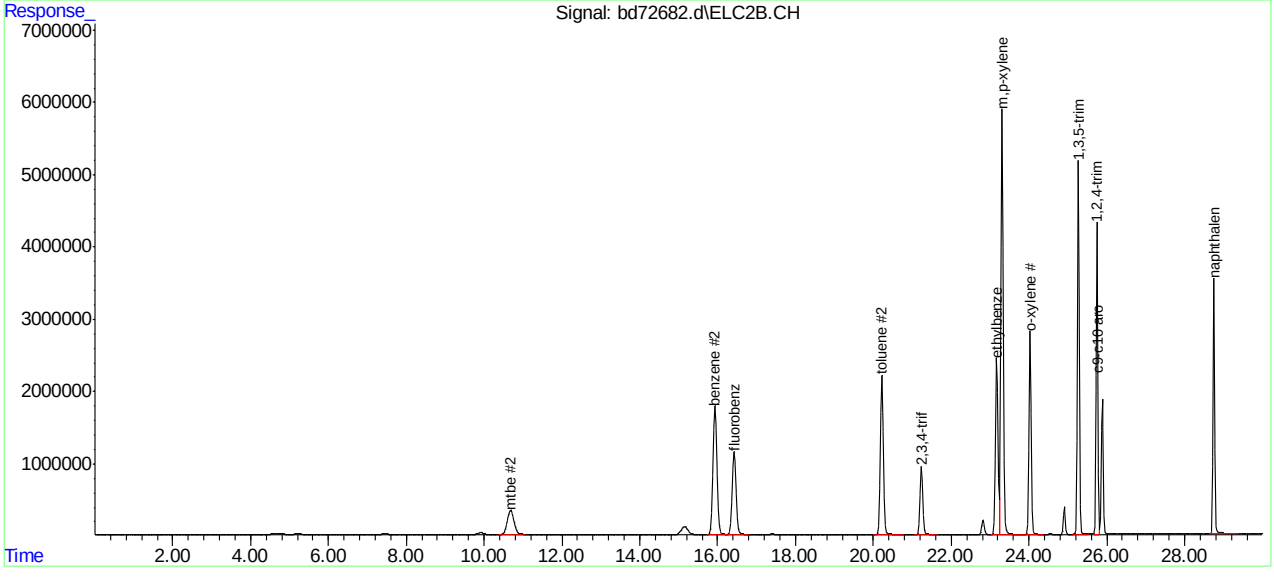
Quantitation Report (QT Reviewed)

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

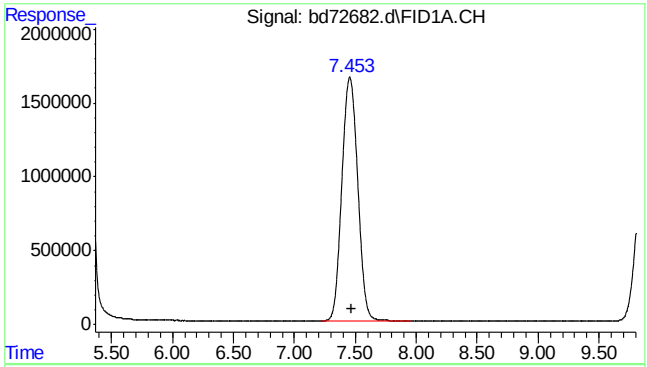
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:18:57 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:17:20 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



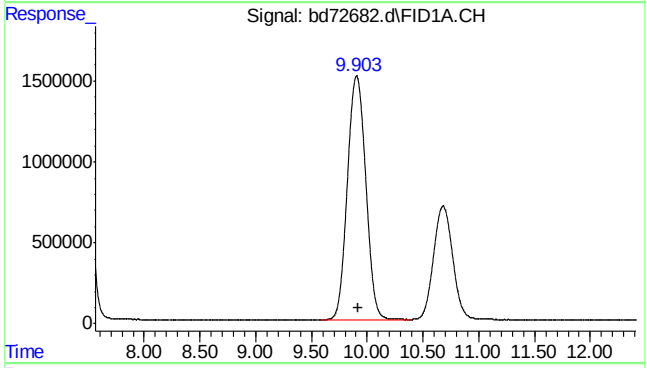


SGS ACCUTEST MC45580



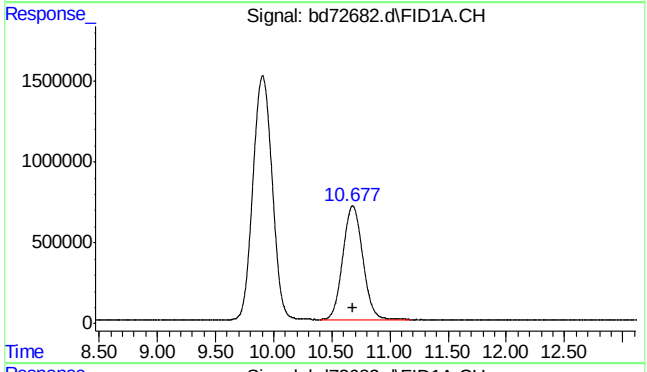
#1 rt5.5-7

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



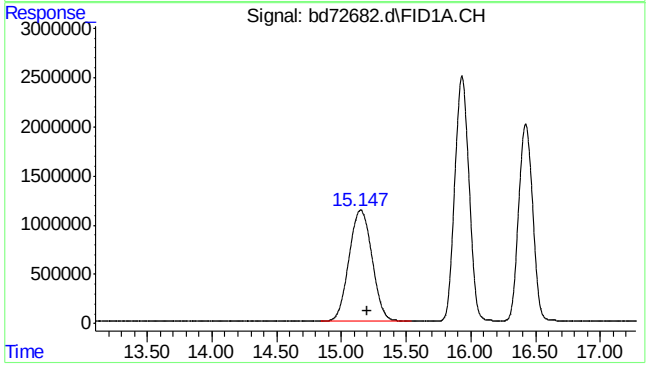
#2 rt7/10

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



#3 mtbe

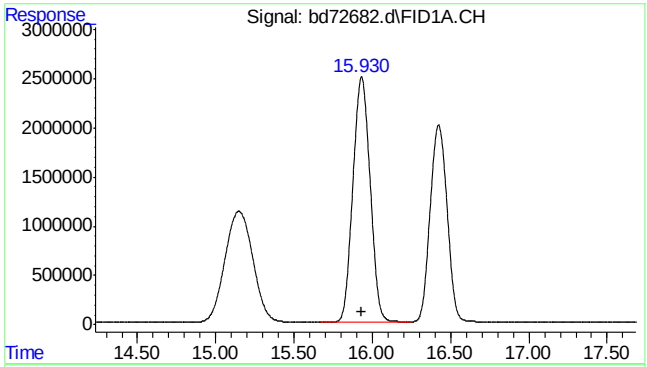
R.T.: 10.678 min
Delta R.T.: -0.005 min
Response: 84104242
Conc: 285.92 ppb



#4 rt10/13

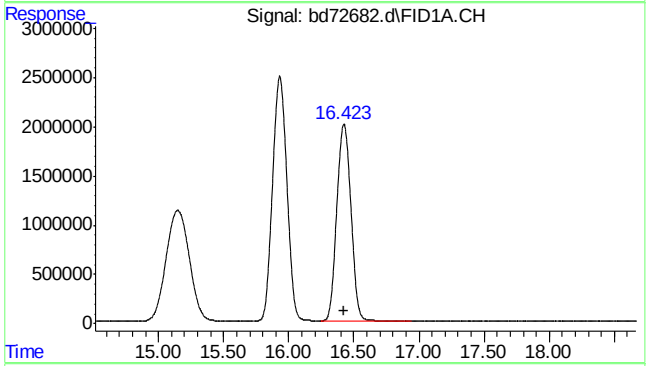
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 140035220
Conc: 196.31 ppb m

SGS ACCUTEST MC45580



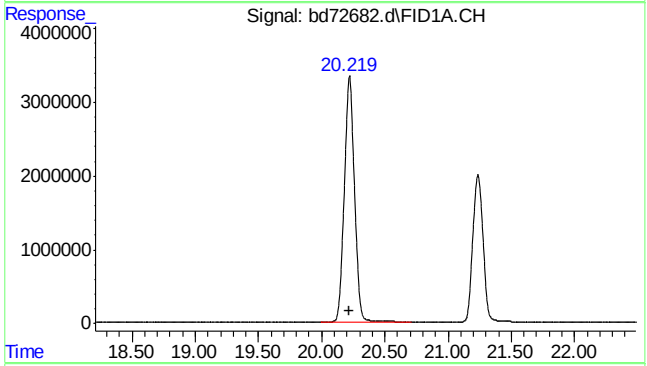
#5 benzene

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



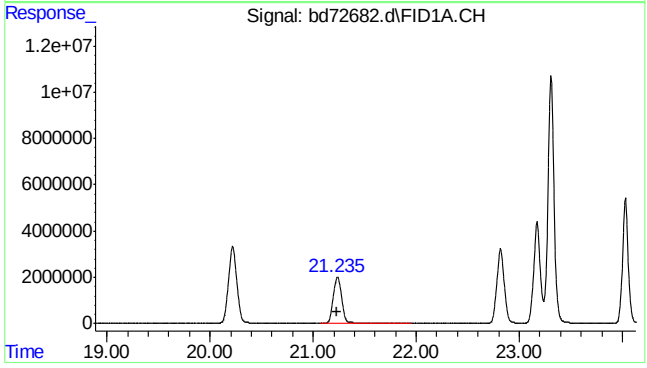
#6 fluorobenzene

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



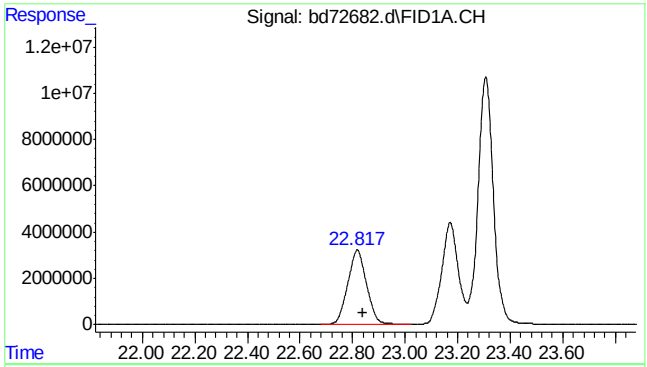
#9 2,3,4-trifluorotoluene

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

7.5.3

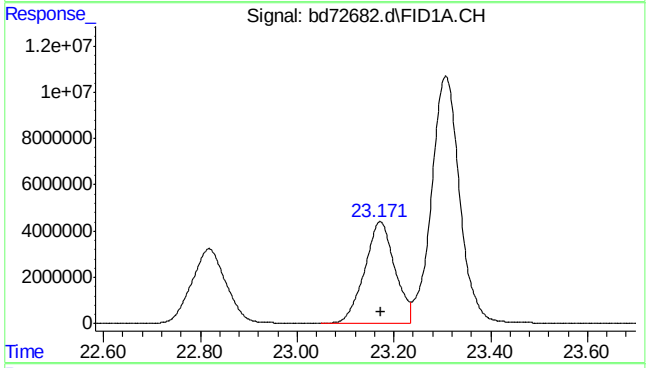
7

SGS ACCUTEST MC45580



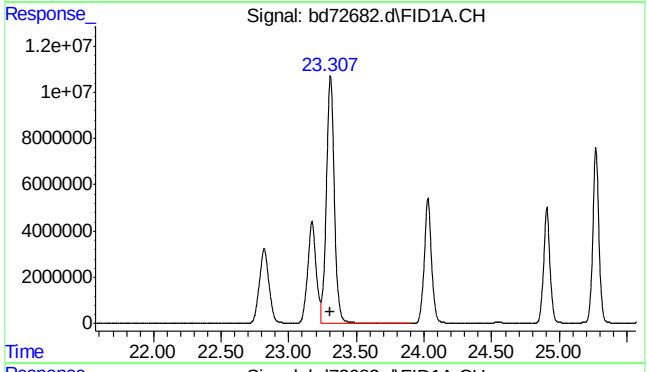
#11 rt20/25

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



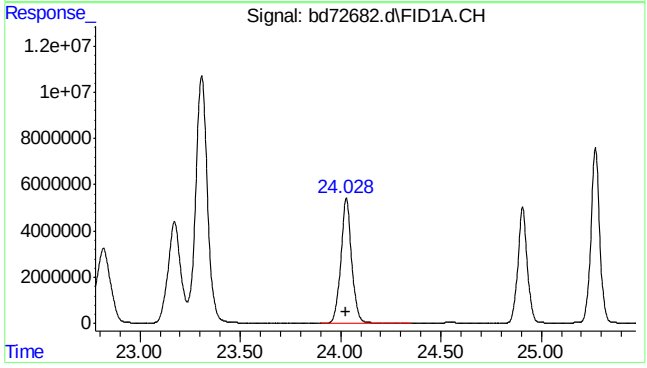
#13 ethylbenzene

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



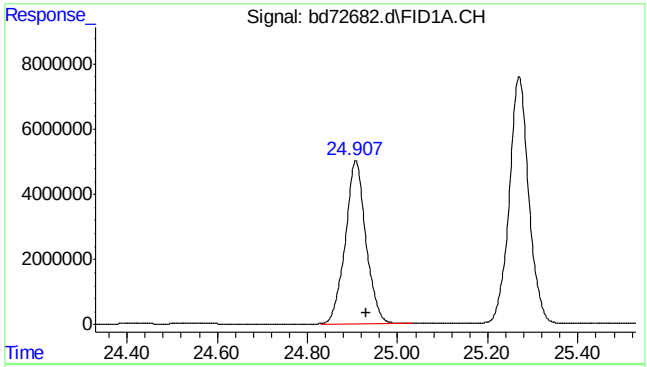
#14 m,p-xylene

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



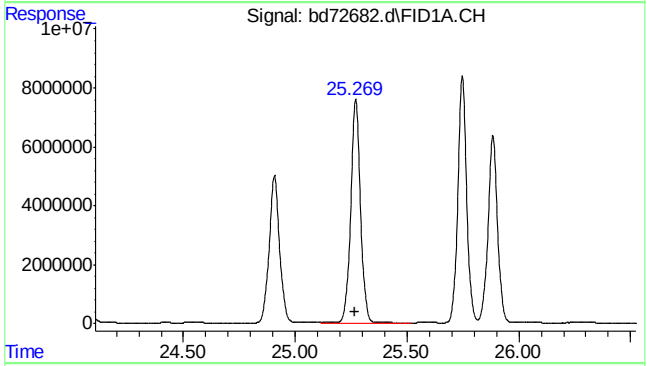
#15 o-xylene

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



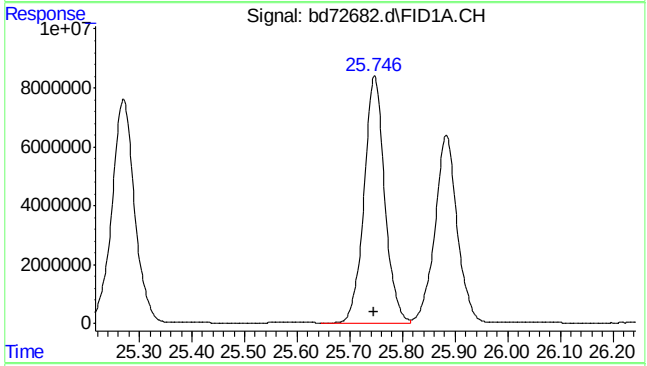
#16 decane

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



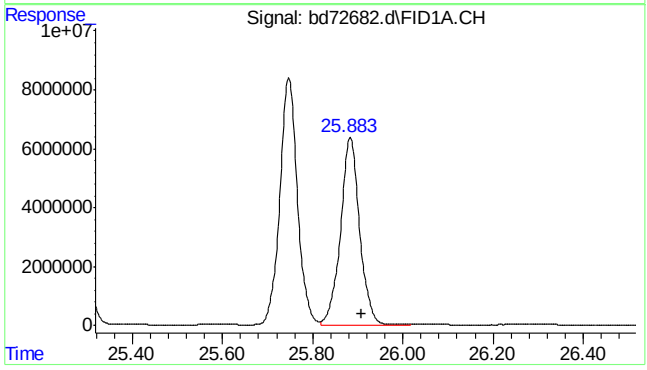
#17 1,3,5-trimethylbenzene

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

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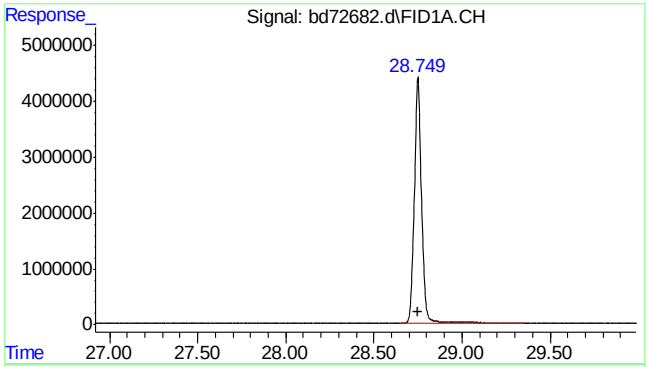
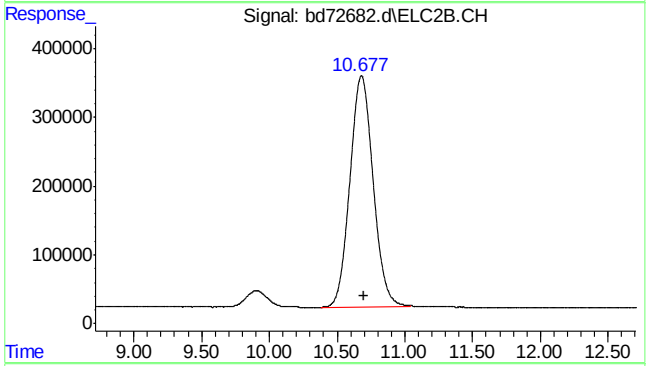


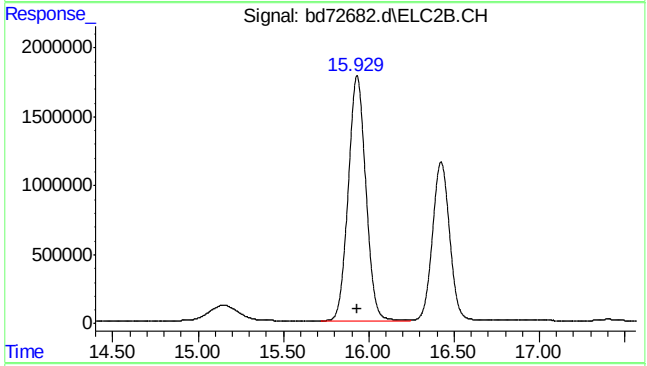
#20 naphthalene

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



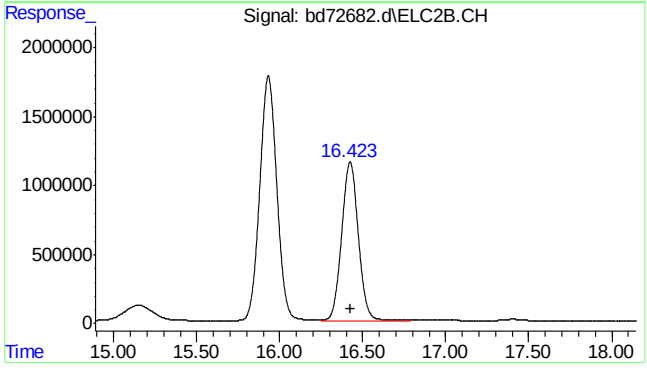
#23 mtbe #2

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



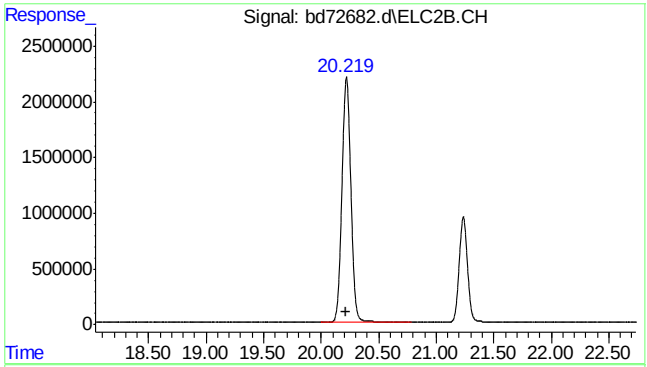
#24 benzene #2

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



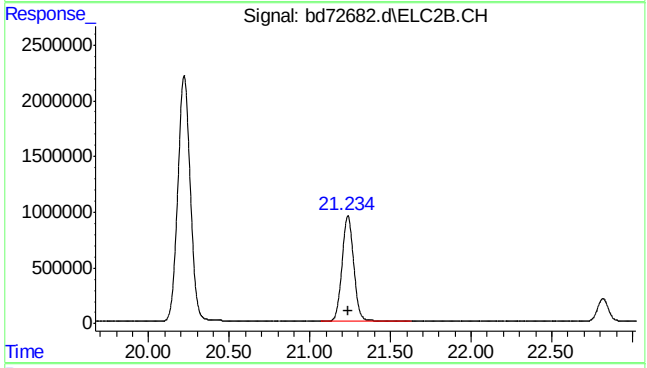
#25 fluorobenzene #2

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



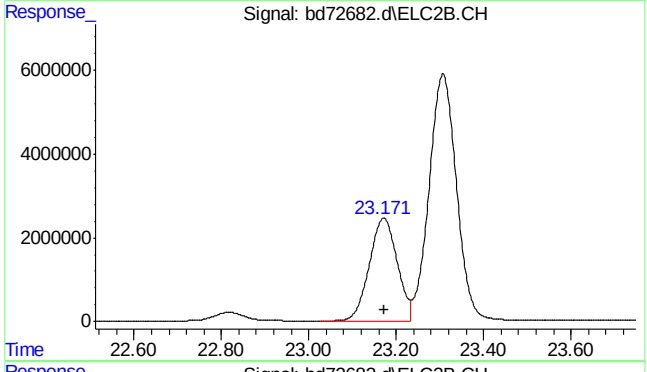
#26 toluene #2

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



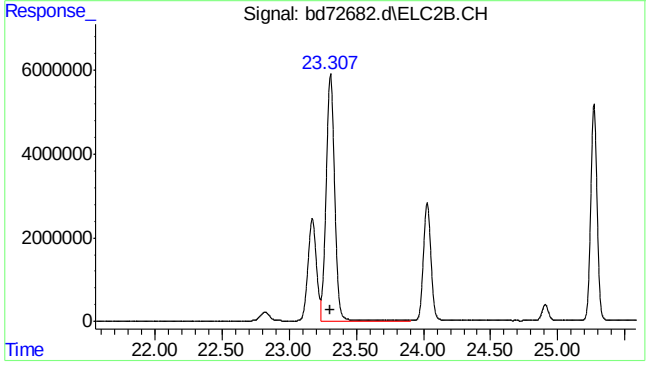
#27 2,3,4-trifluorotoluene #2

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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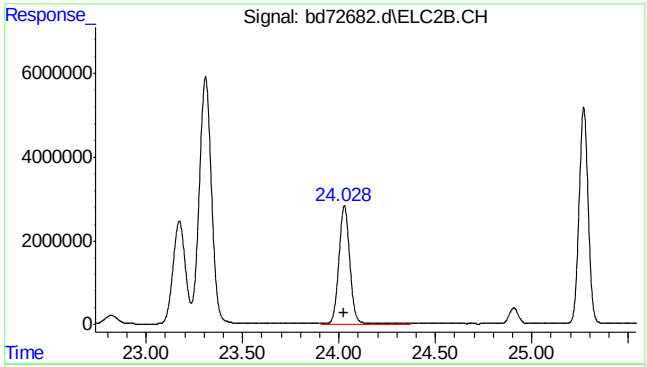
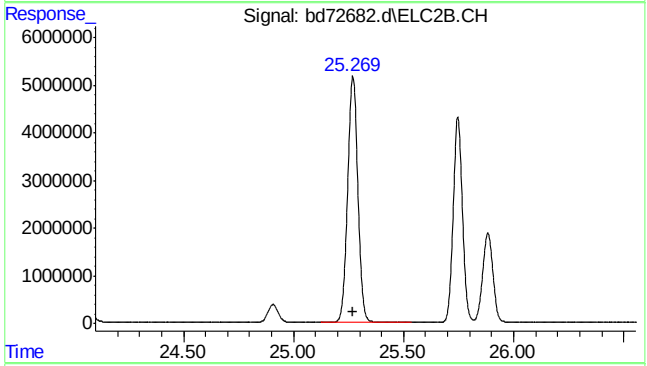


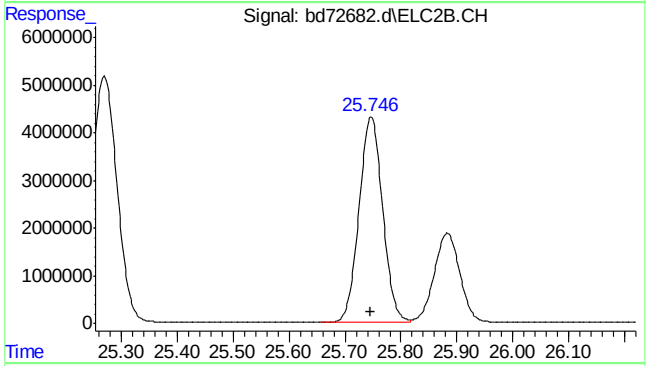
#30 o-xylene #2

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



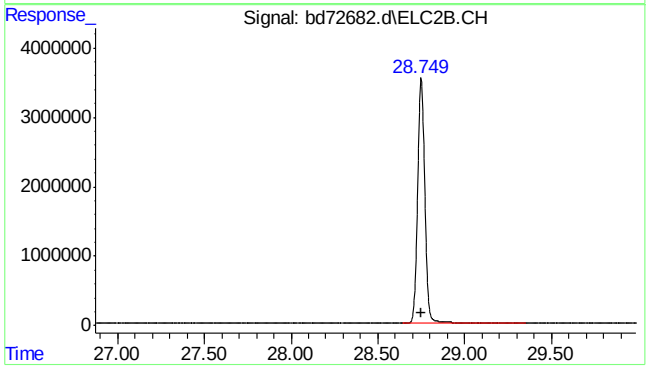
#31 1,3,5-trimethylbenzene #2

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



#32 1,2,4-trimethylbenzene #2

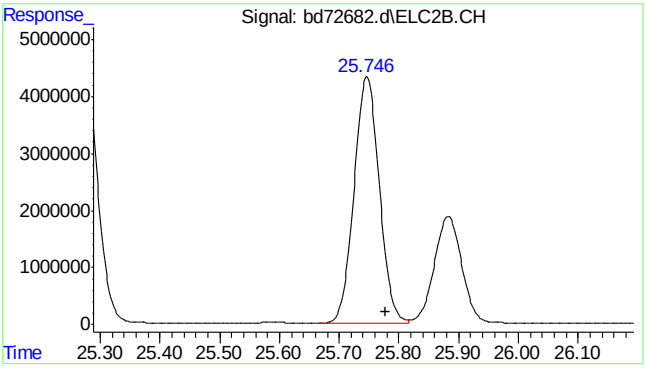
R.T.: 25.747 min
Delta R.T.: 0.000 min
Response: 127084846
Conc: 262.75 ppb



#33 naphthalene #2

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

SGS ACCUTEST MC45580



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

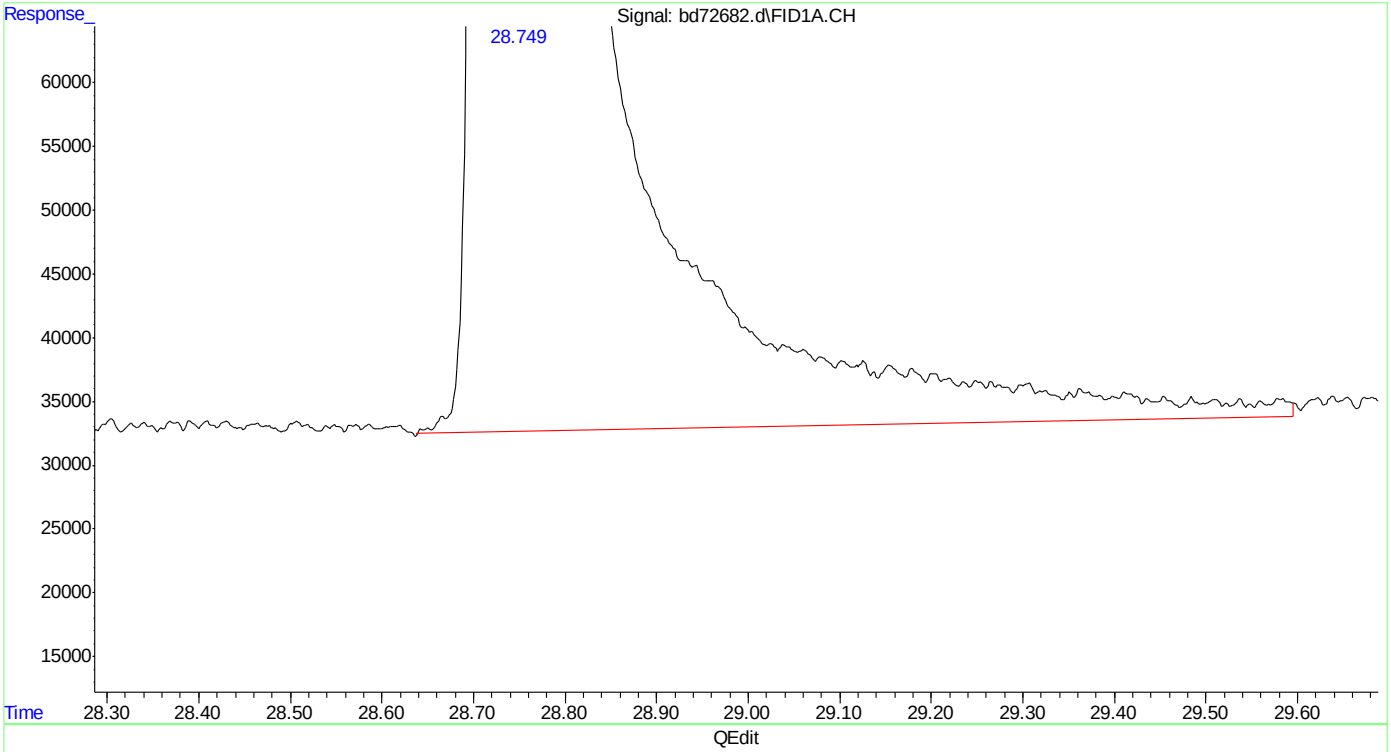
R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 127045219
Conc: 262.81 ppb m

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

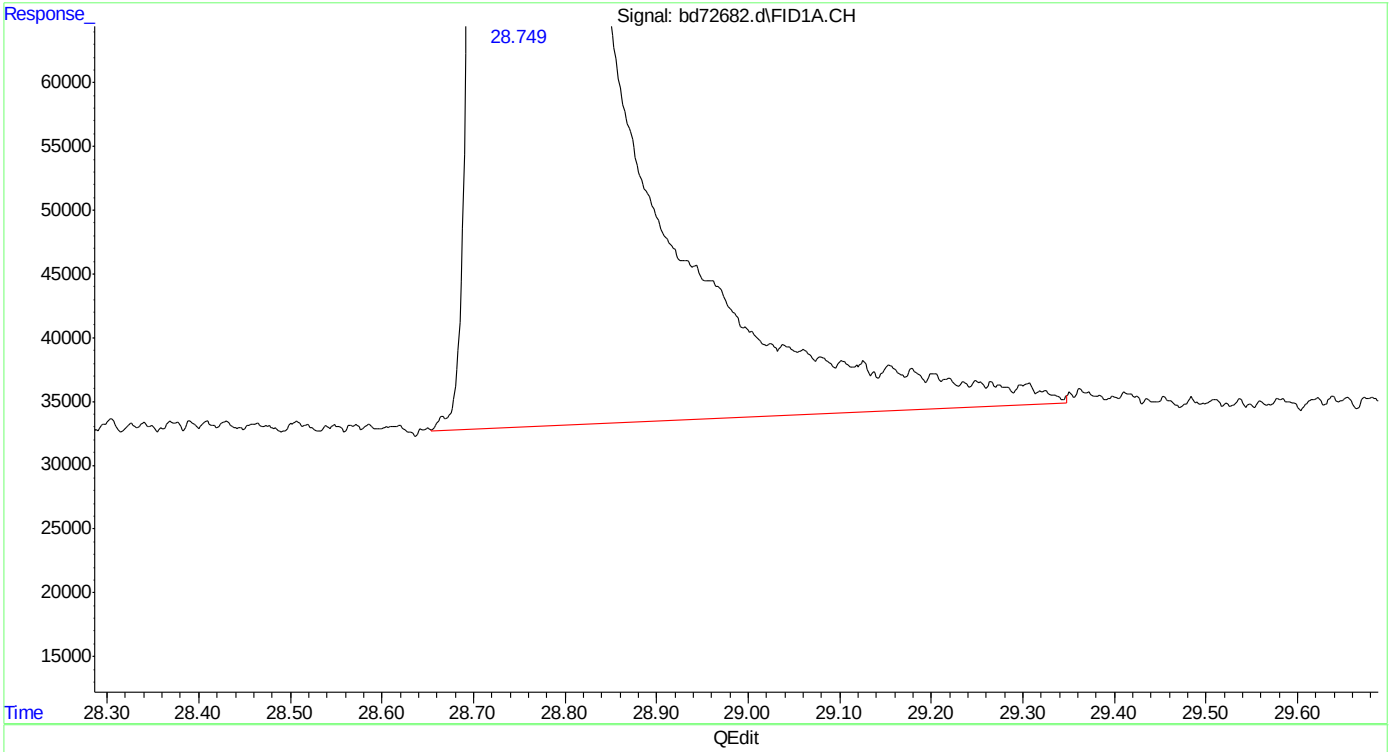
SGS ACCUTEST MC45580

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

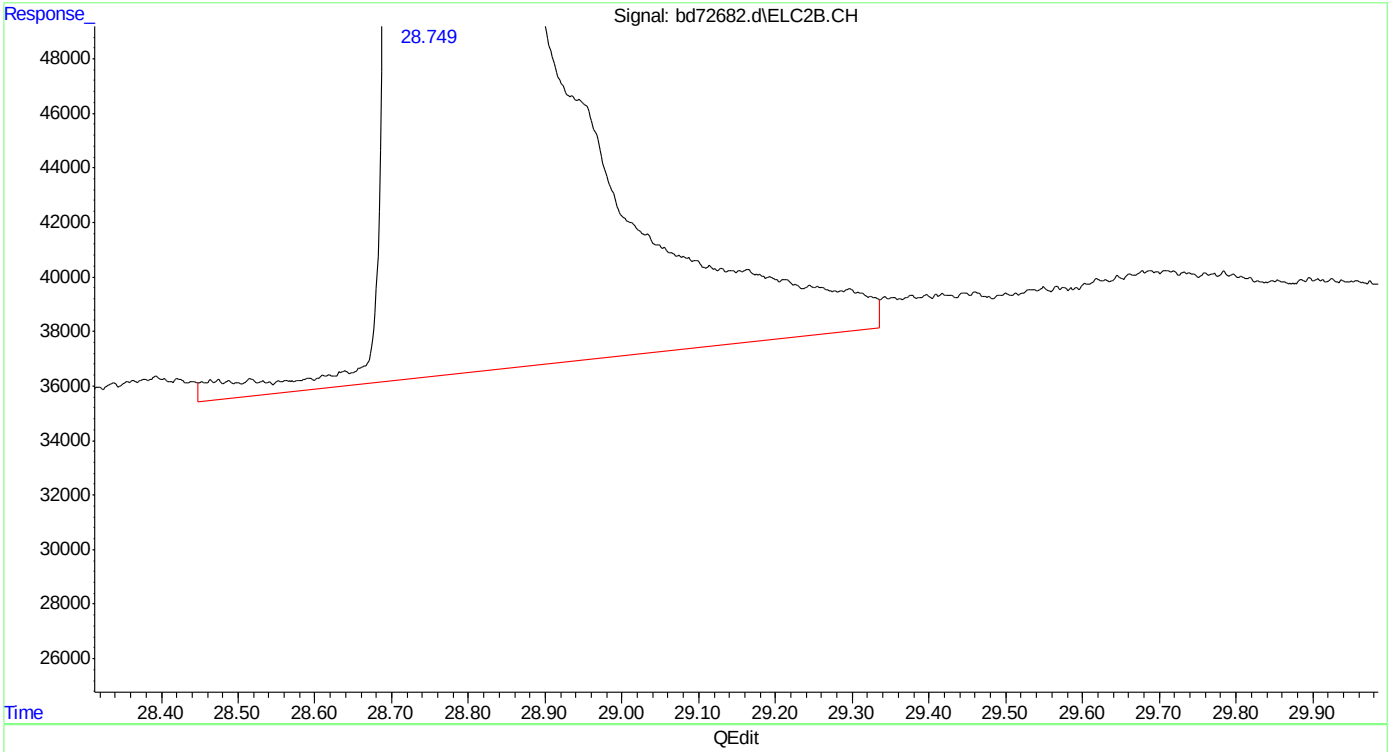
SGS ACCUTEST MC45580

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

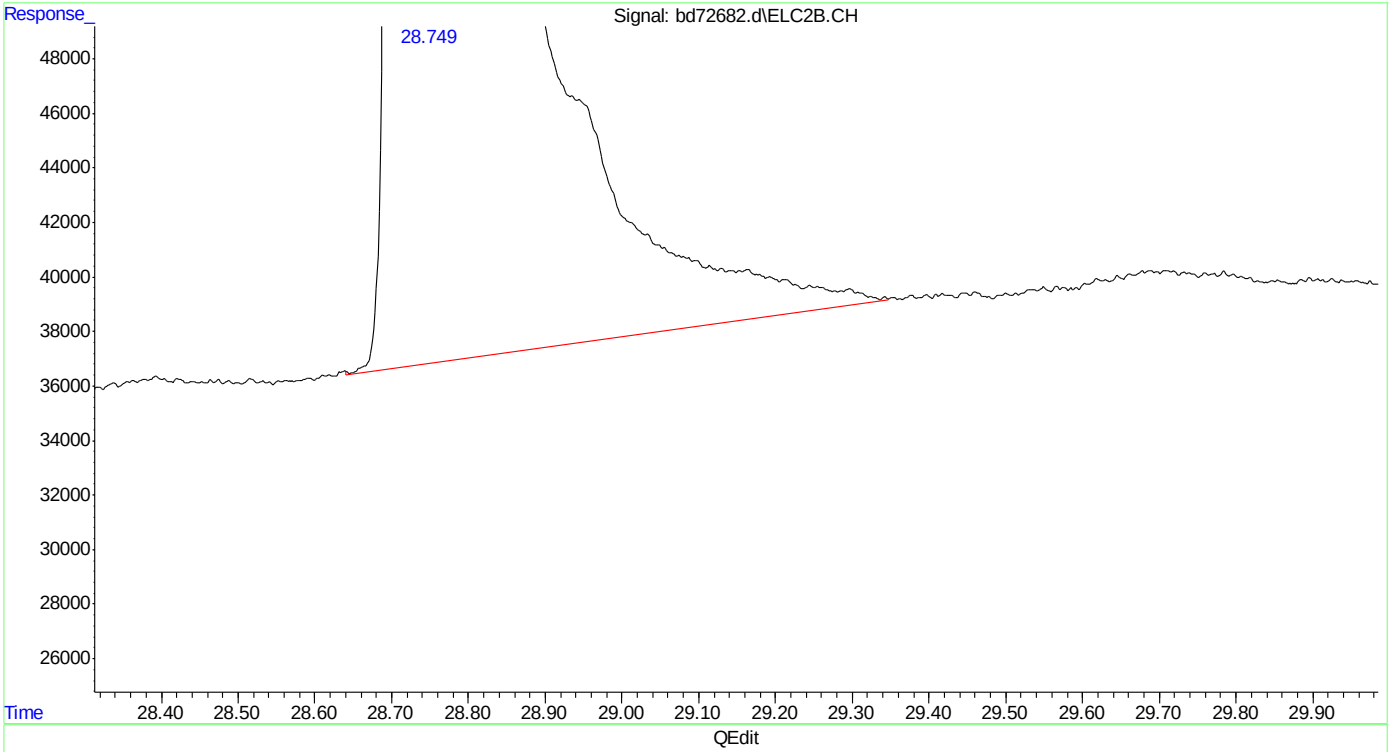
SGS ACCUTEST MC45580

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 MC45580

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.

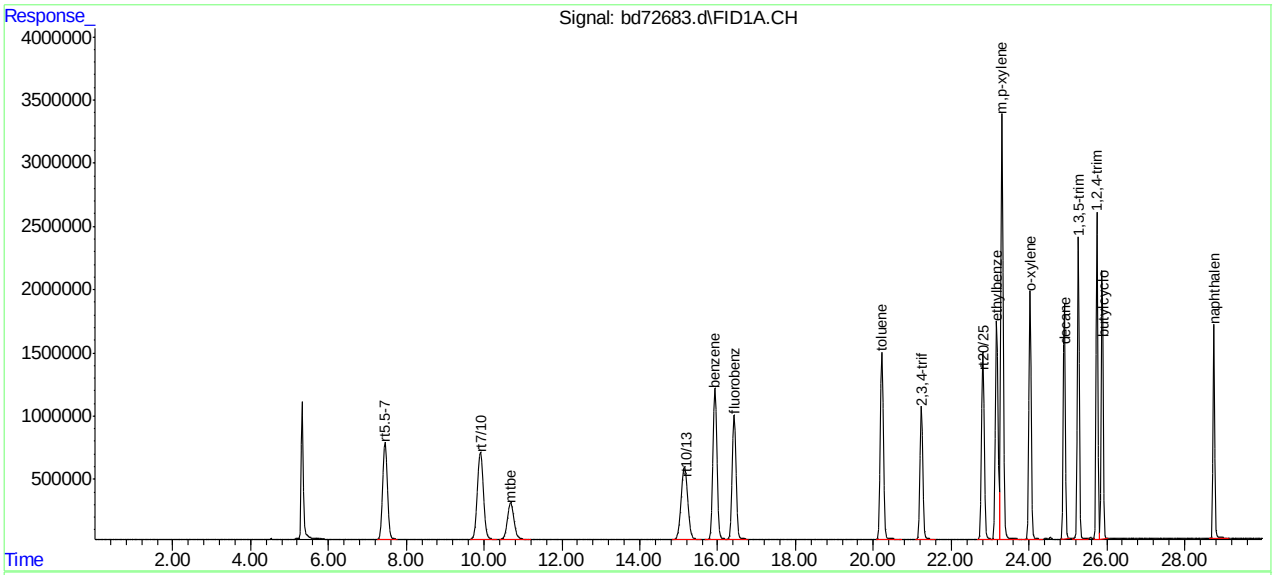
SGS ACCUTEST MC45580

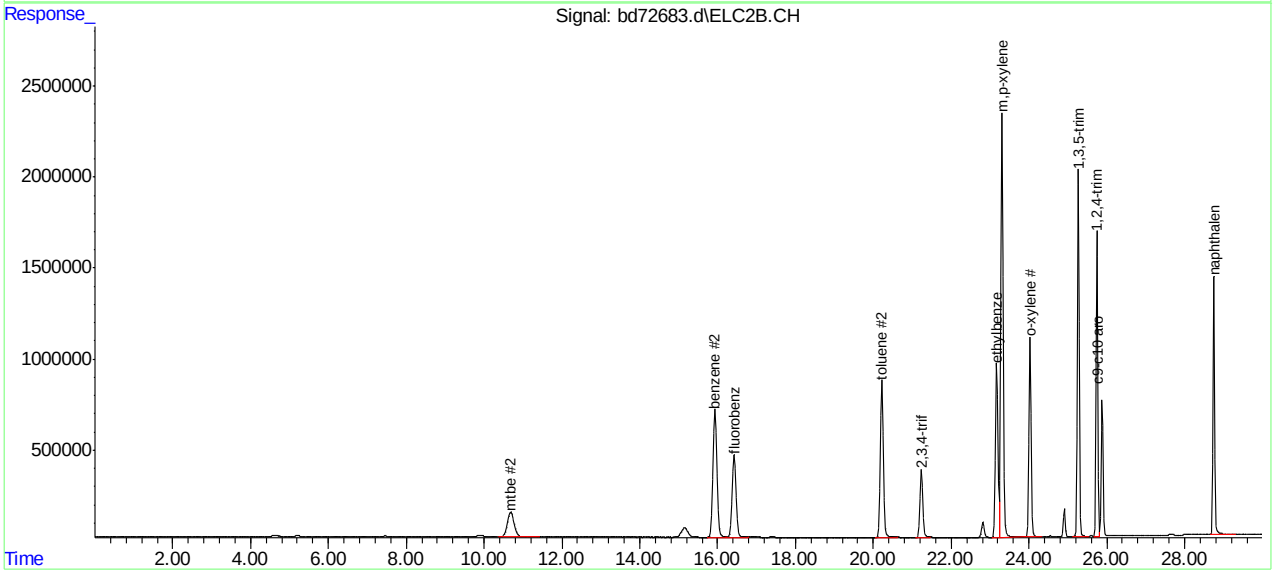
Quantitation Report (QT Reviewed)

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

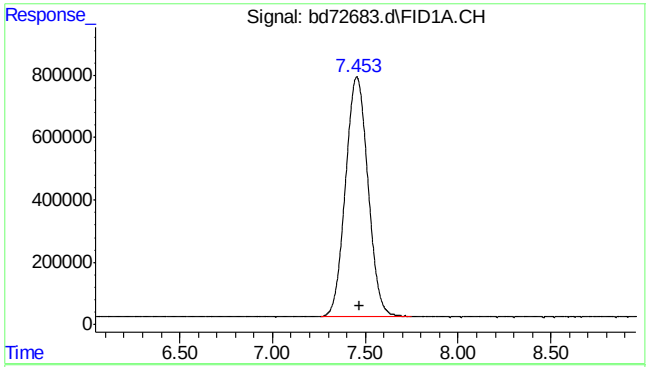
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 13:16:55 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 13:14:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



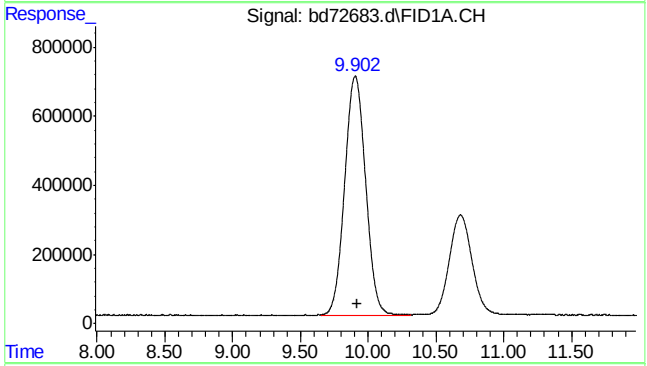


SGS ACCUTEST MC45580



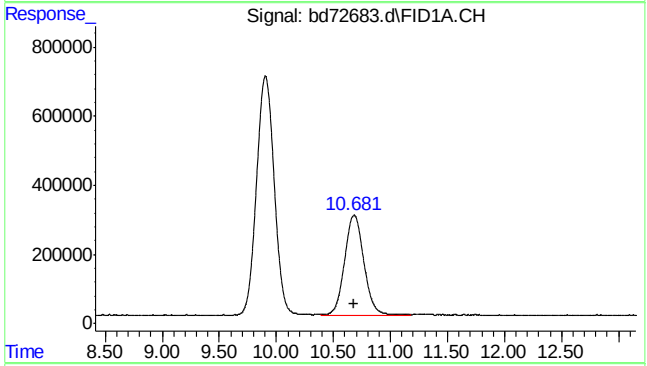
#1 rt5.5-7

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



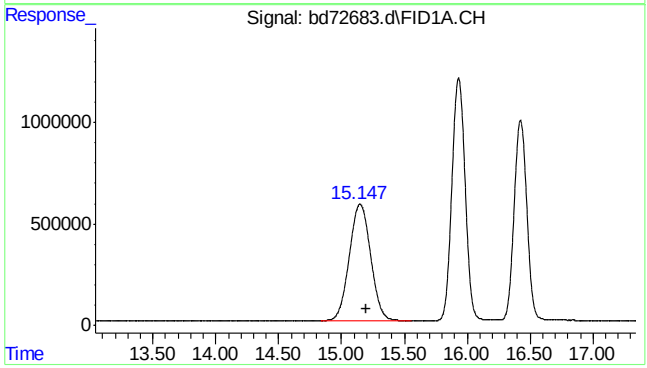
#2 rt7/10

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



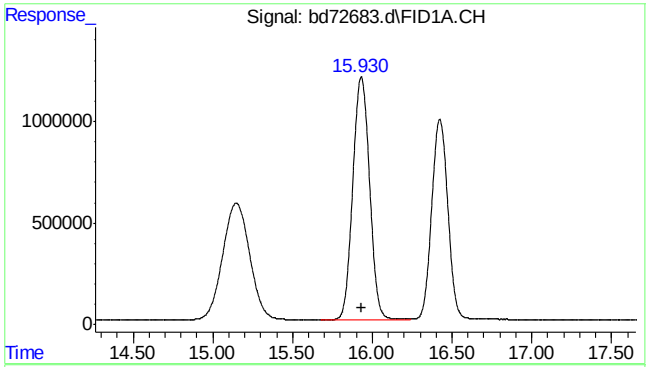
#3 mtbe

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



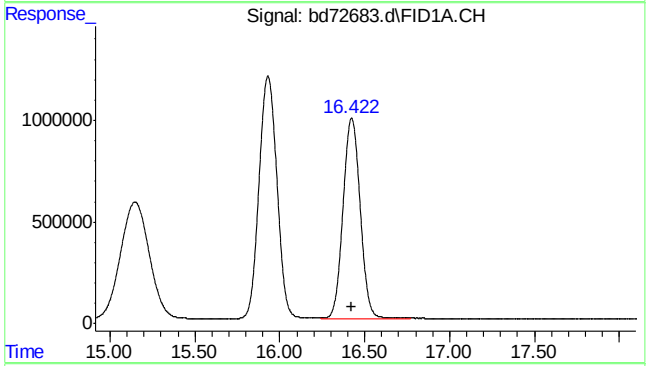
#4 rt10/13

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



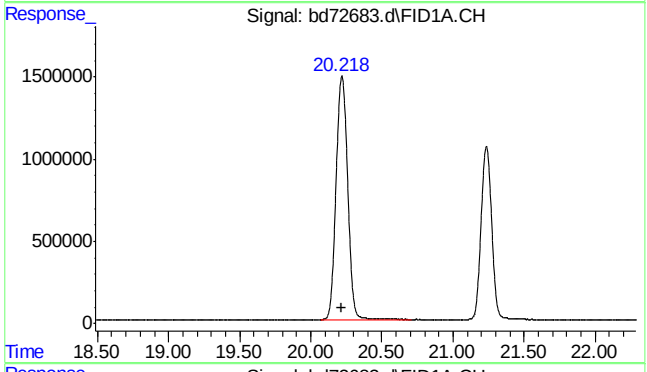
#5 benzene

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



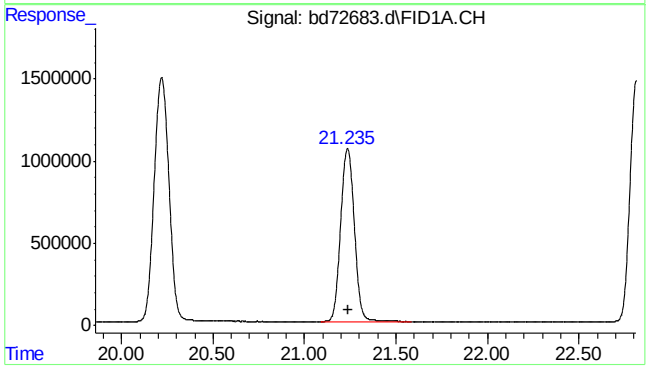
#6 fluorobenzene

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



#8 toluene

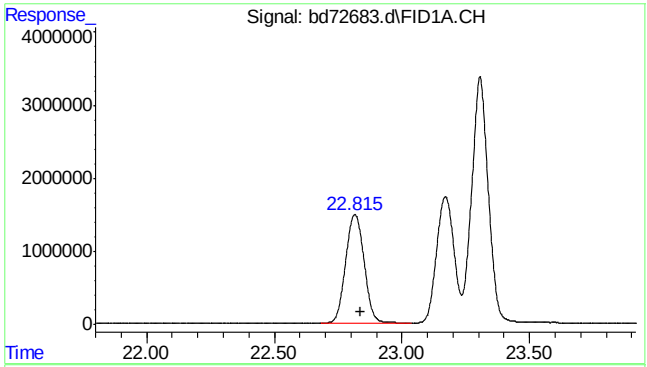
R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 84423859
Conc: 109.92 ppb



#9 2,3,4-trifluorotoluene

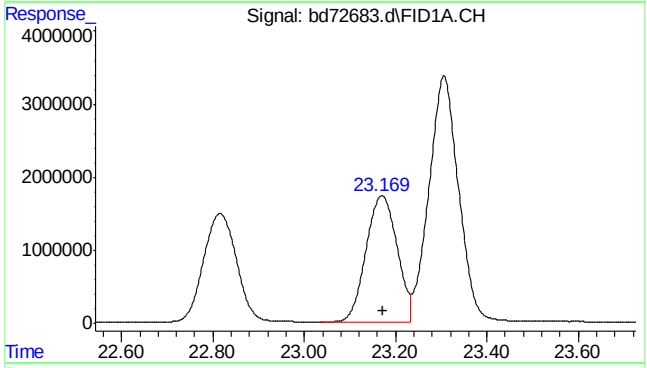
R.T.: 21.235 min
Delta R.T.: -0.002 min
Response: 54927490
Conc: 100.41 ppb

SGS ACCUTEST MC45580



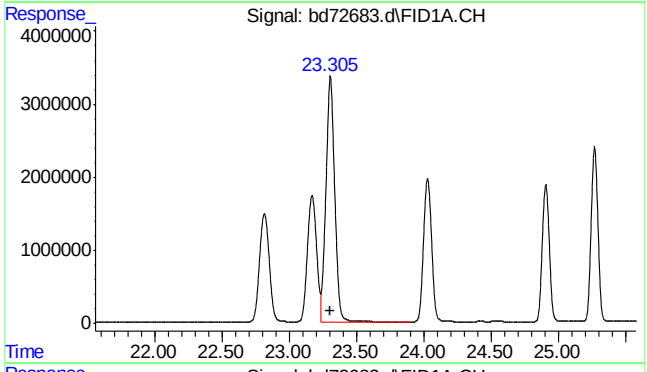
#11 rt20/25

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



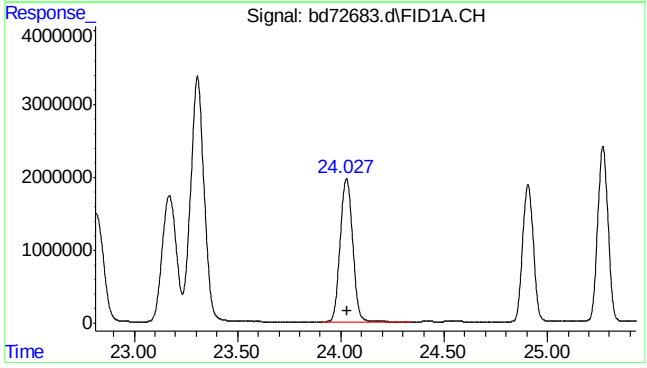
#13 ethylbenzene

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



#14 m,p-xylene

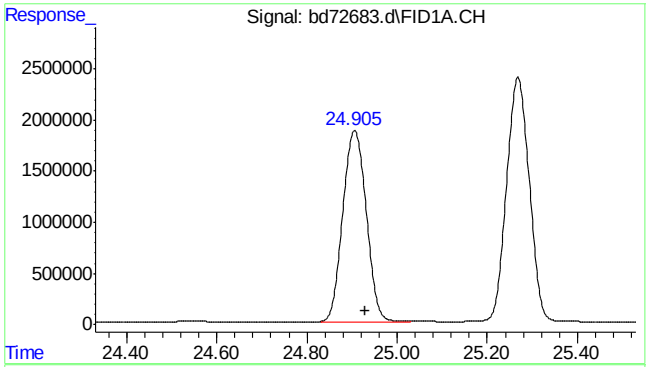
R.T.: 23.306 min
Delta R.T.: -0.001 min
Response: 152799260
Conc: 183.86 ppb



#15 o-xylene

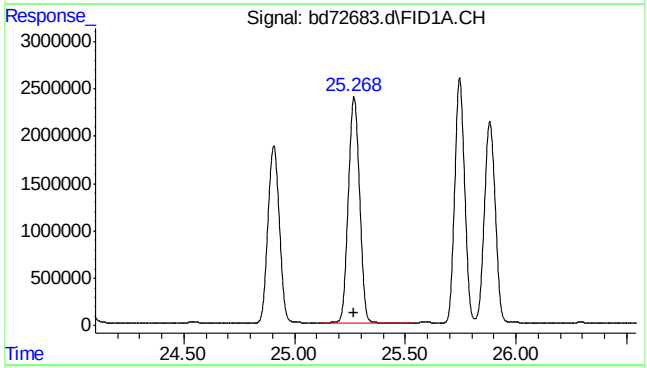
R.T.: 24.027 min
Delta R.T.: -0.002 min
Response: 82145326
Conc: 96.82 ppb

SGS ACCUTEST MC45580



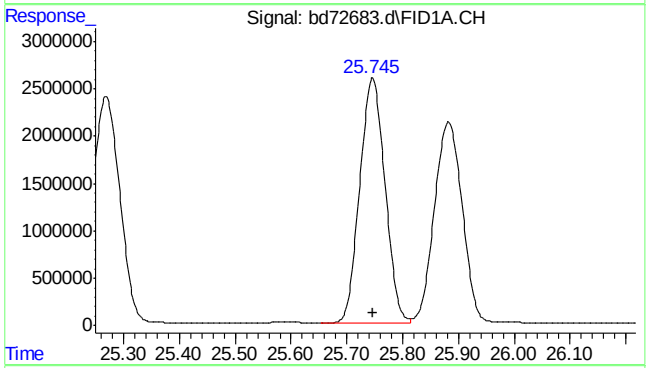
#16 decane

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



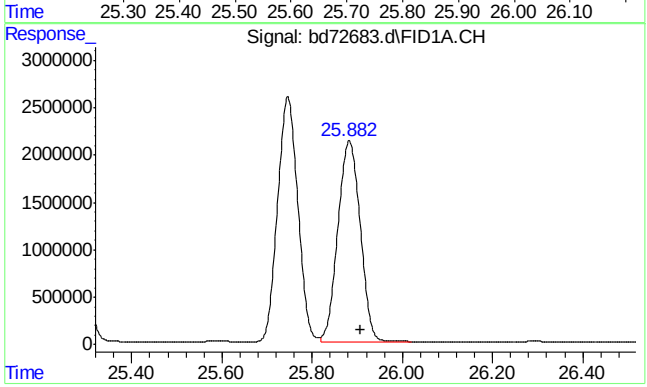
#17 1,3,5-trimethylbenzene

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



#18 1,2,4-trimethylbenzene

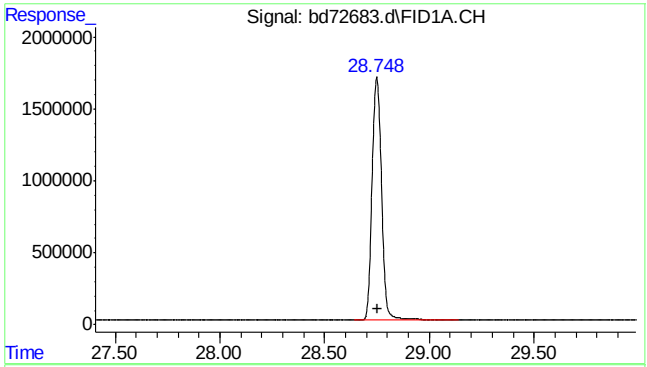
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 81329260
Conc: 91.25 ppb



#19 butylcyclohexane

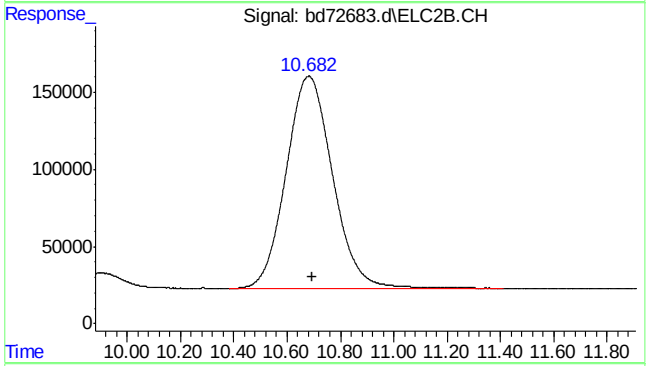
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 73745152
Conc: 68.77 ppb

SGS ACCUTEST MC45580



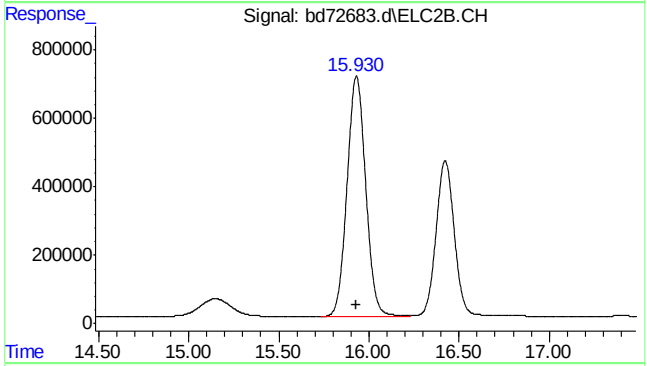
#20 naphthalene

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



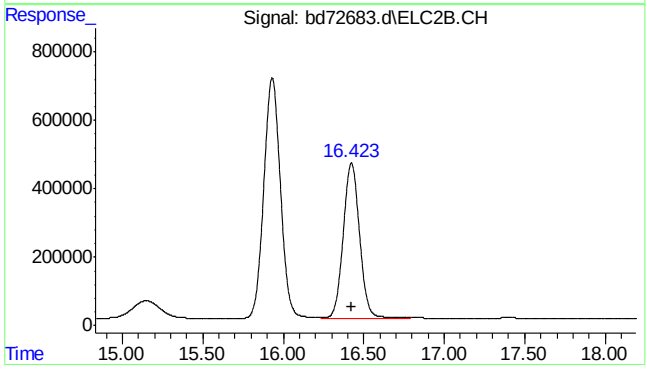
#23 mtbe #2

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



#24 benzene #2

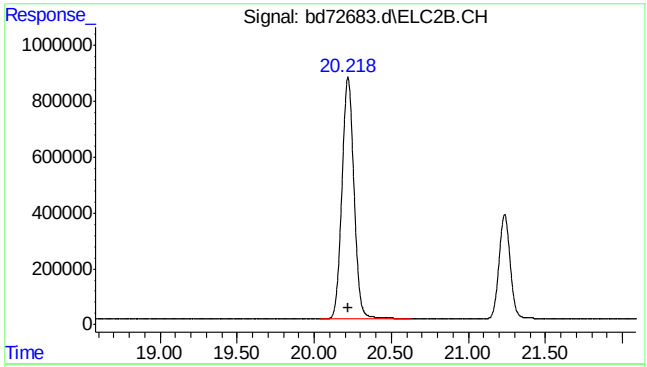
R.T.: 15.930 min
Delta R.T.: -0.002 min
Response: 50557437
Conc: 106.89 ppb



#25 fluorobenzene #2

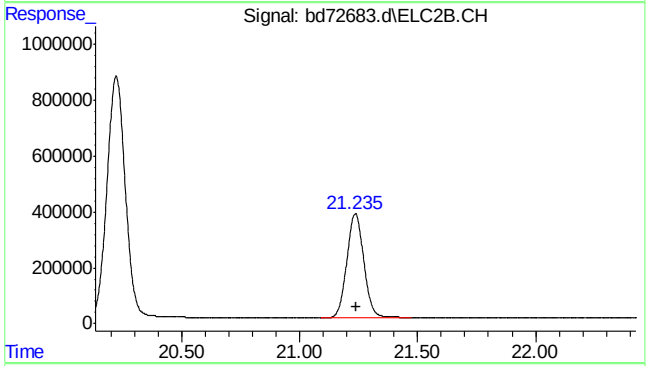
R.T.: 16.423 min
Delta R.T.: -0.001 min
Response: 32202770
Conc: 89.80 ppb

SGS ACCUTEST MC45580



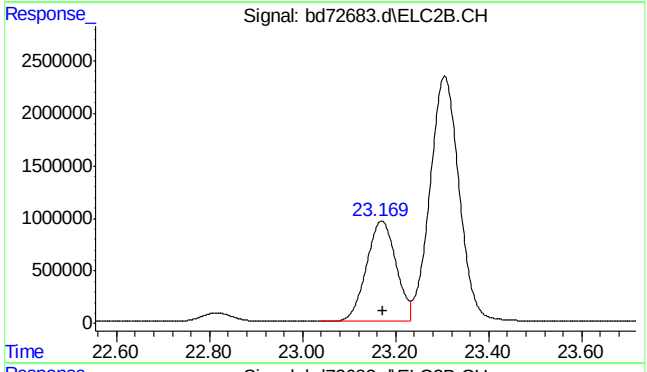
#26 toluene #2

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



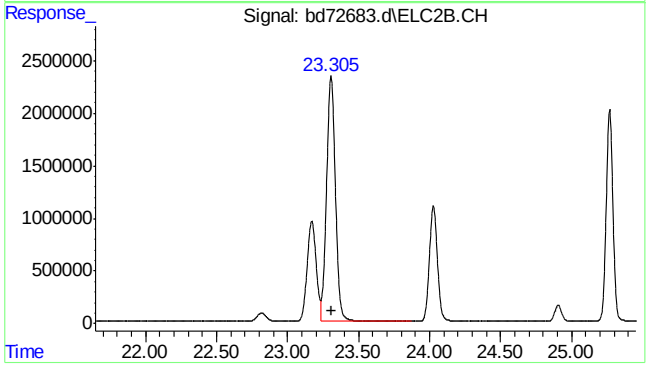
#27 2,3,4-trifluorotoluene #2

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



#28 ethylbenzene #2

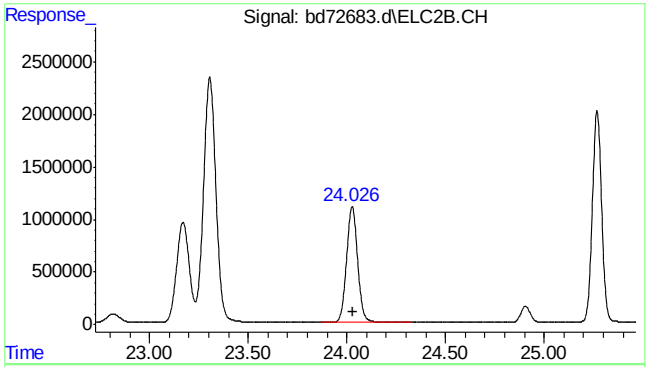
R.T.: 23.170 min
Delta R.T.: -0.002 min
Response: 42468306
Conc: 106.11 ppb



#29 m,p-xylene #2

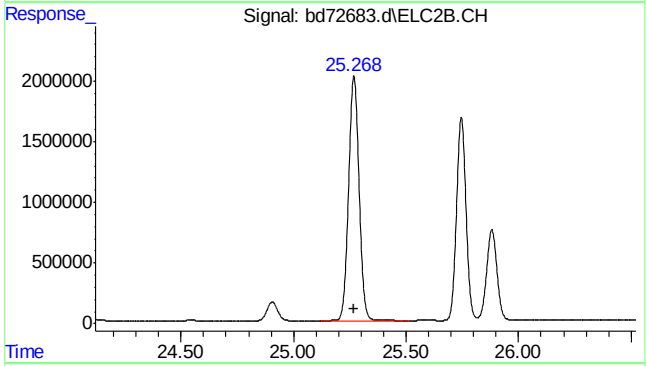
R.T.: 23.305 min
Delta R.T.: -0.002 min
Response: 102263487
Conc: 209.44 ppb

SGS ACCUTEST MC45580



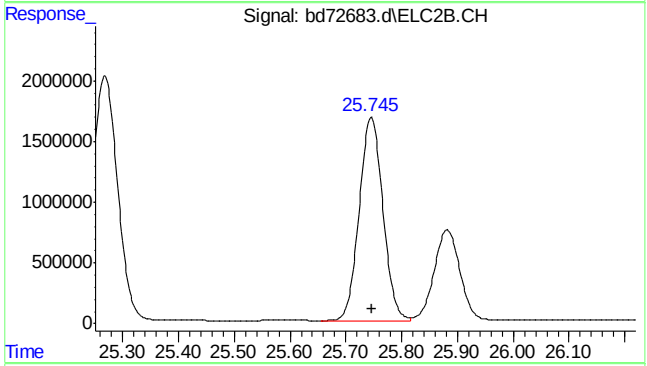
#30 o-xylene #2

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



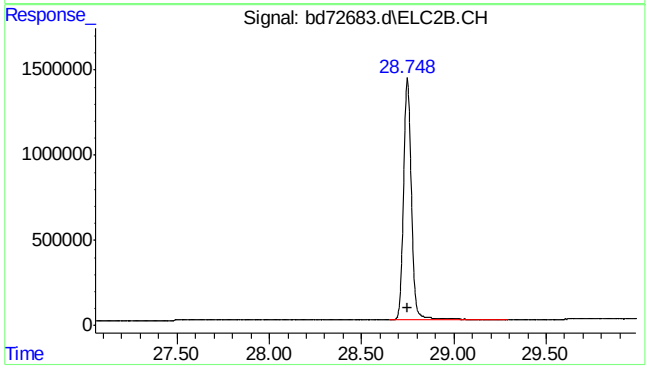
#31 1,3,5-trimethylbenzene #2

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



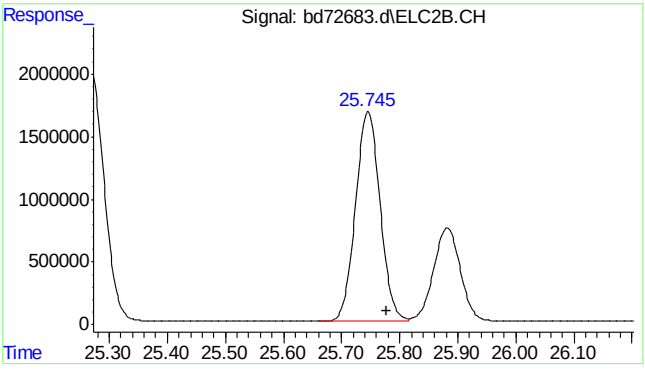
#33 naphthalene #2

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

7.5.4

7

SGS ACCUTEST MC45580



#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

7.5.4

7

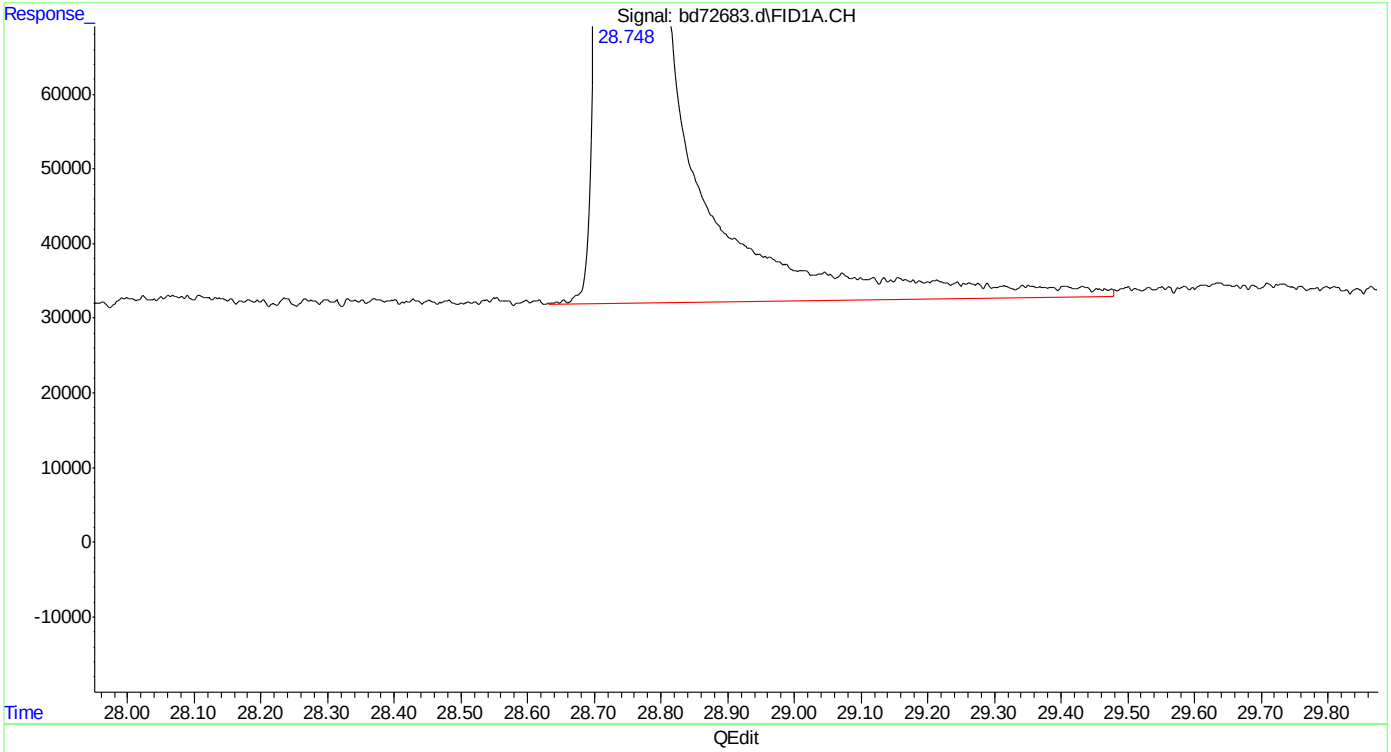
SGS ACCUTEST MC45580

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

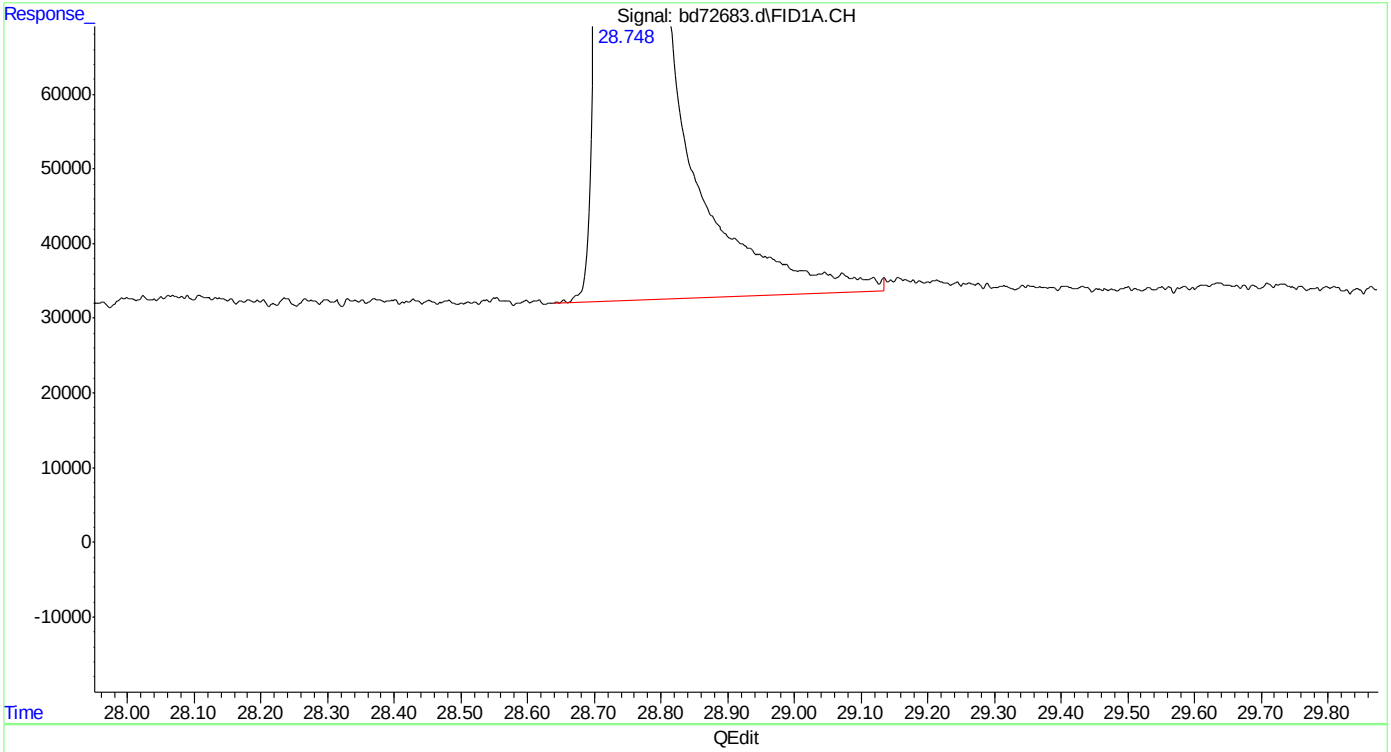
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:11 2016

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 Page: 1

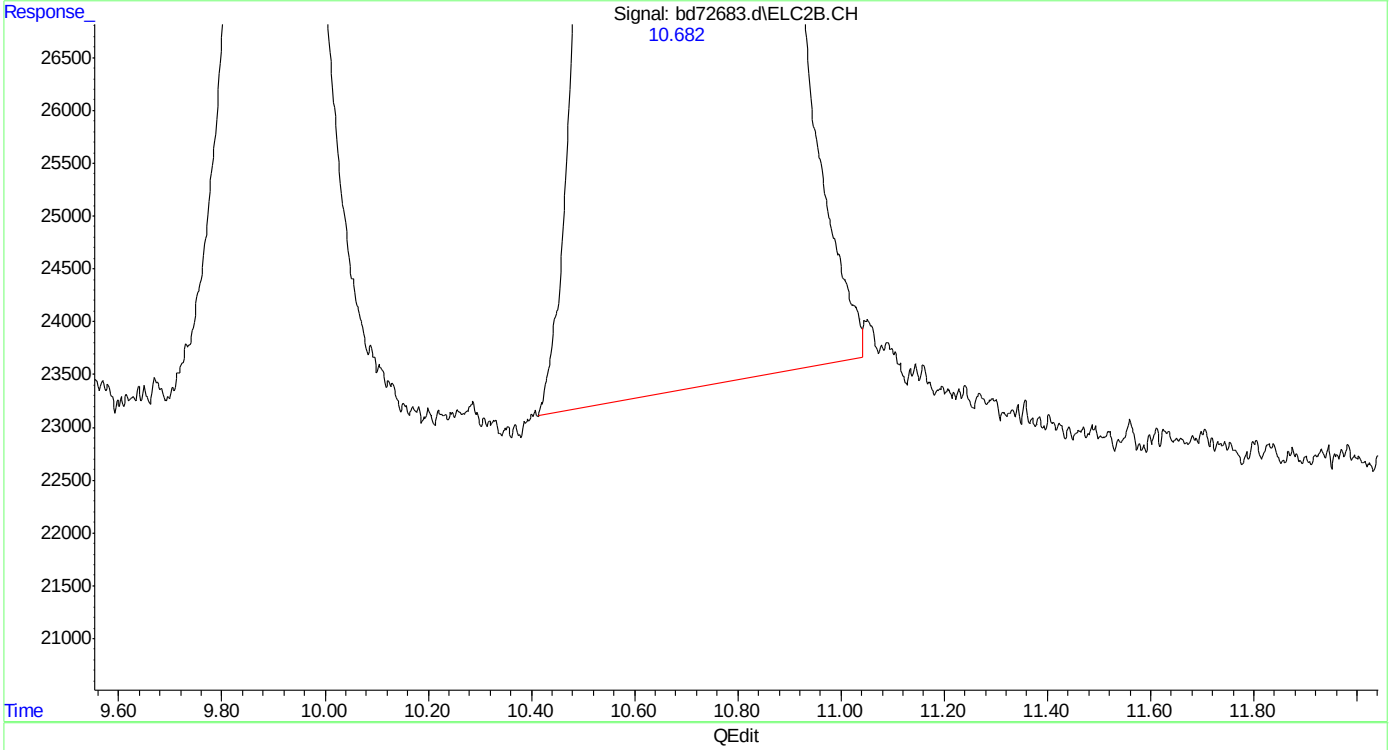
SGS ACCUTEST MC45580

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

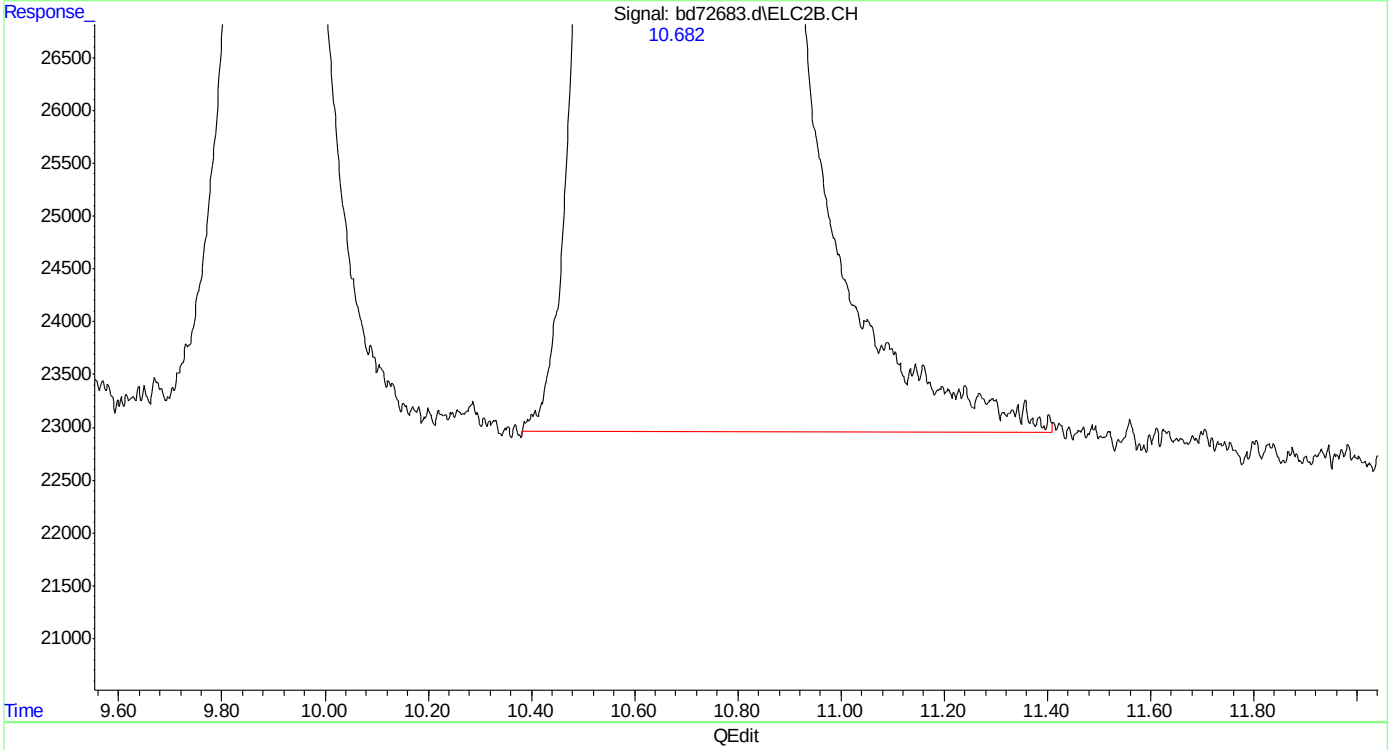
SGS ACCUTEST MC45580

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

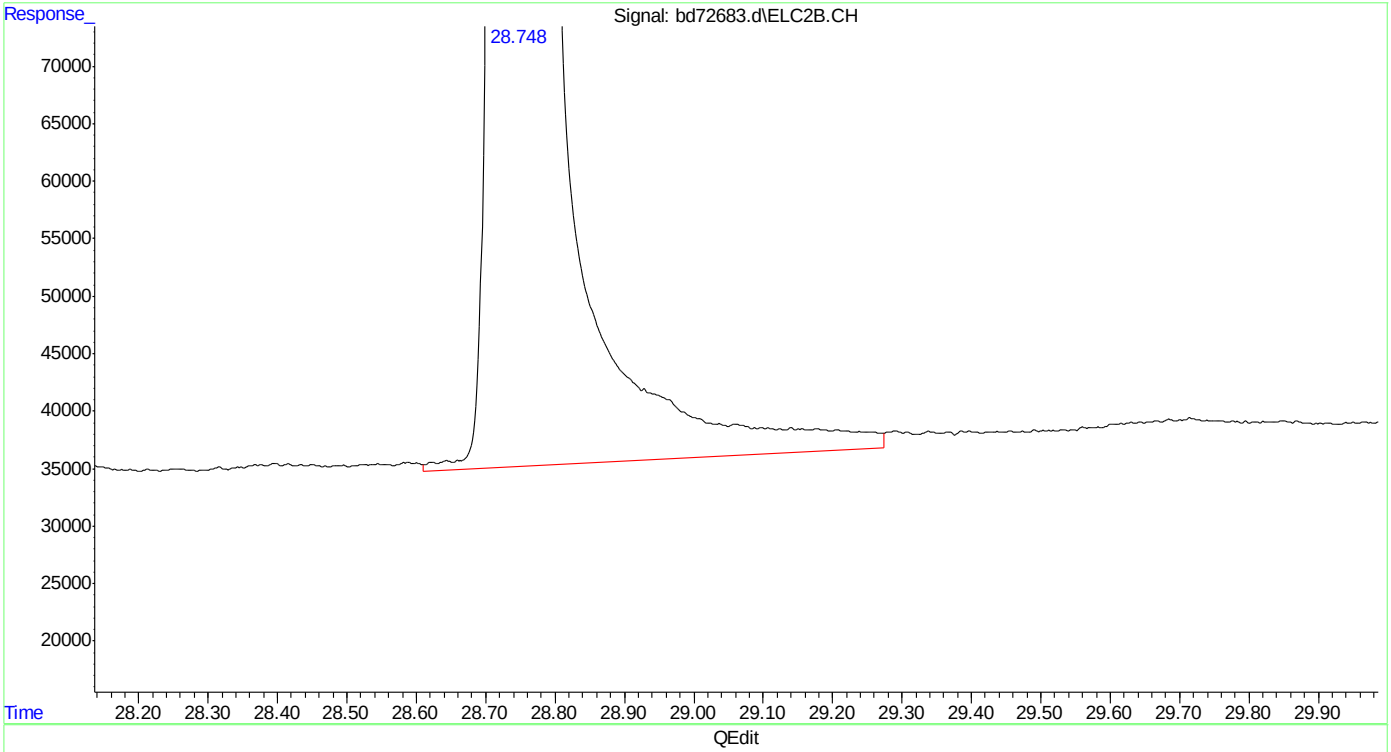
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:16:30 2016 Page: 1

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

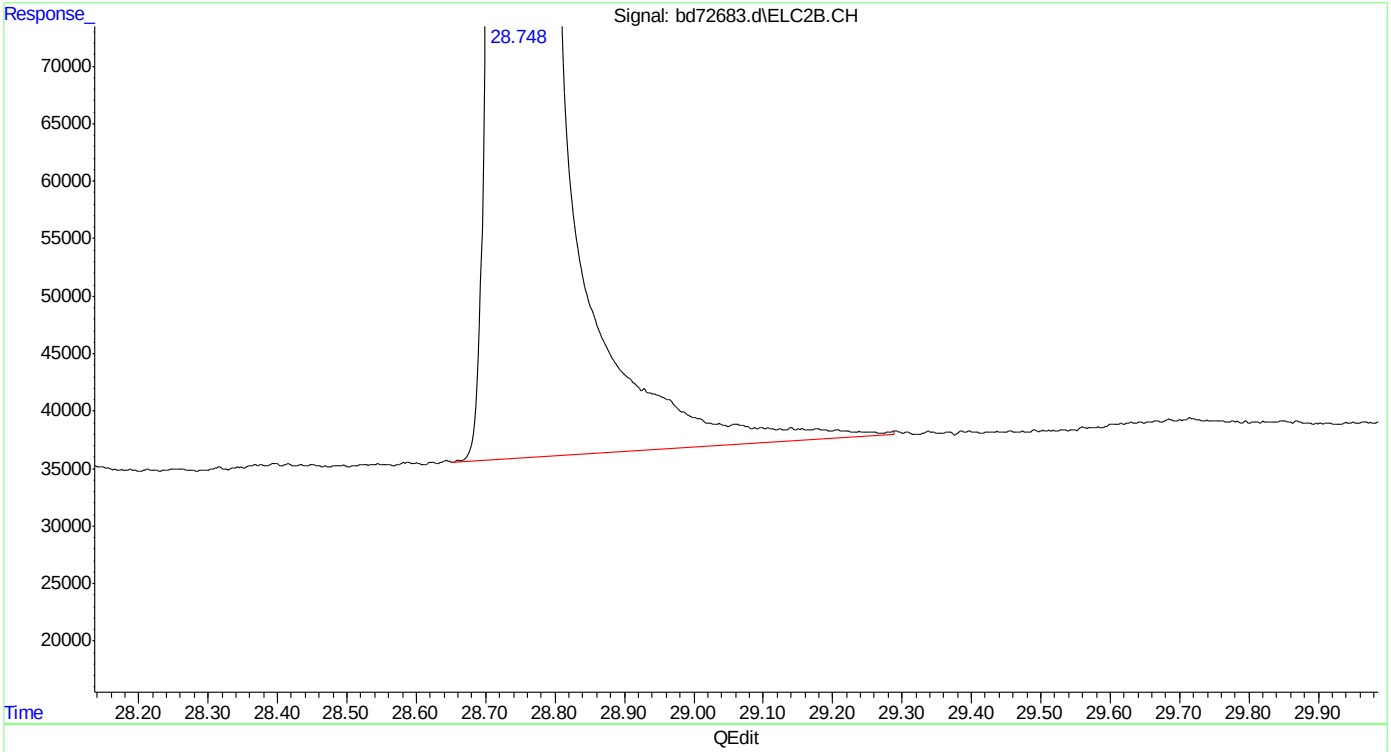
SGS ACCUTEST MC45580

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 MC45580

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.

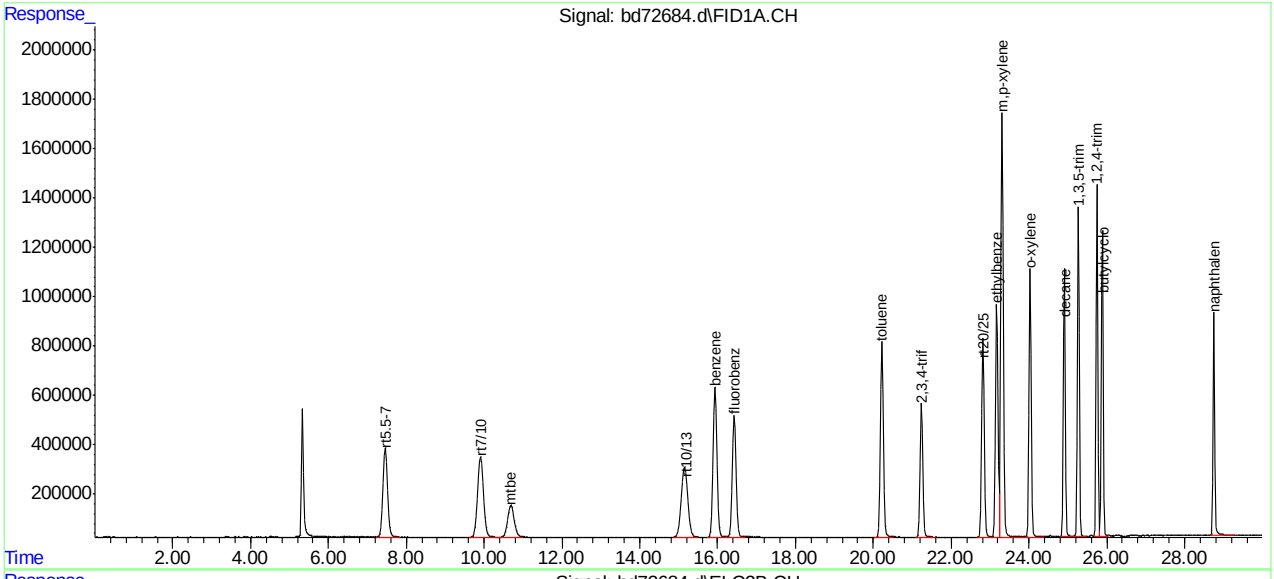
SGS ACCUTEST MC45580

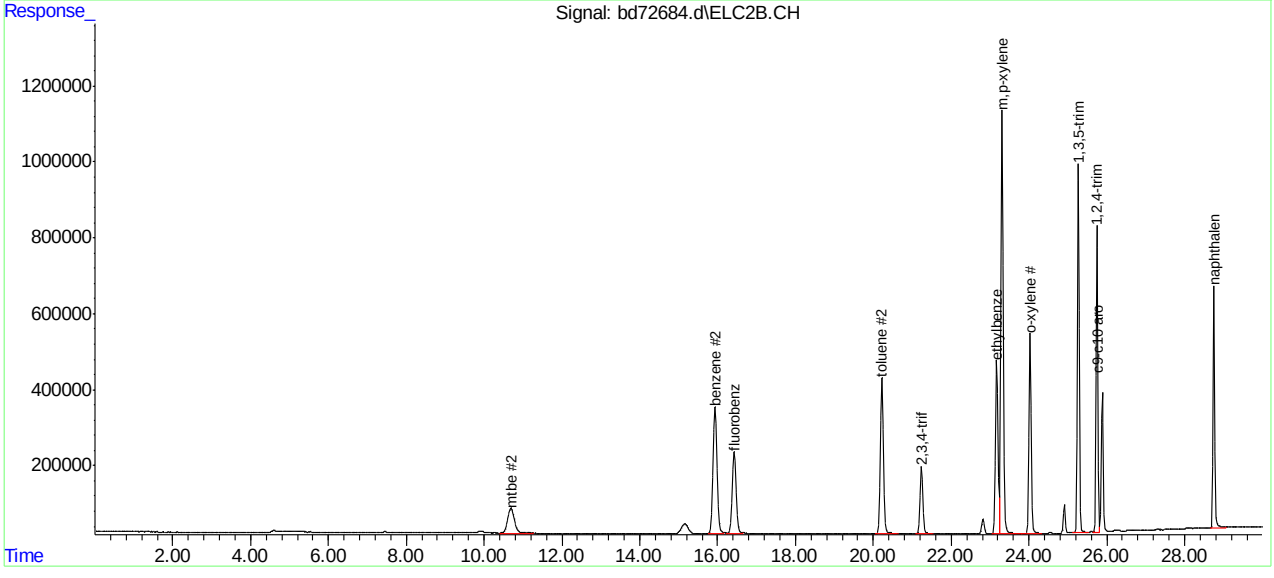
Quantitation Report (QT Reviewed)

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

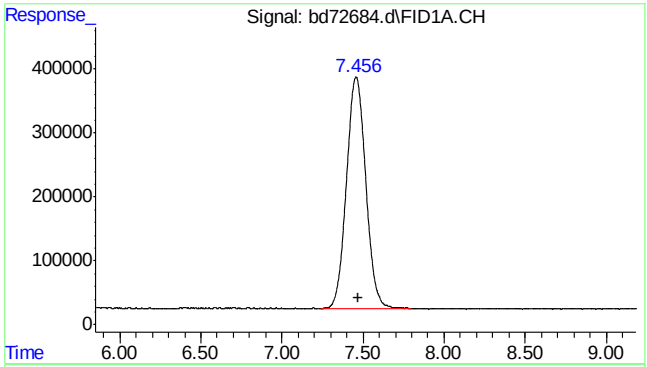
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 10:44:32 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 10:42:14 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



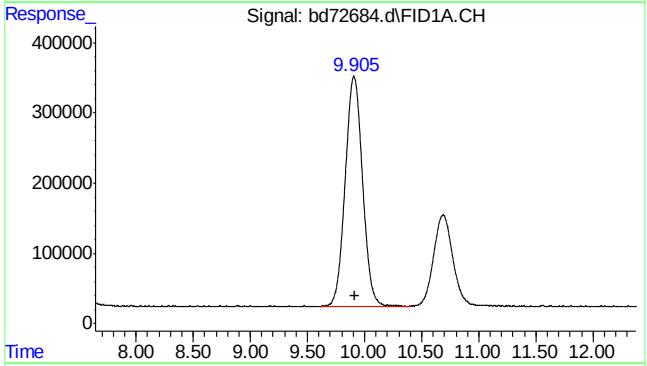


SGS ACCUTEST MC45580



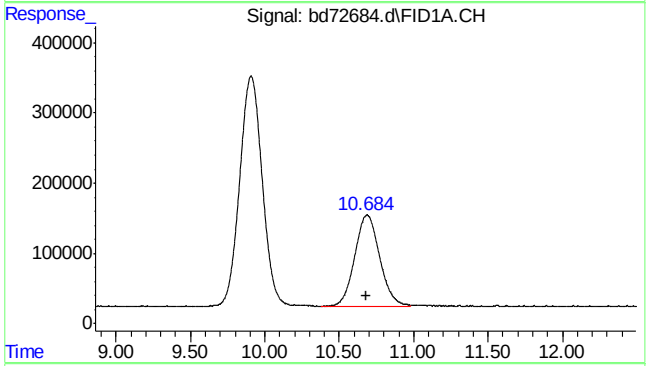
#1 rt5.5-7

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



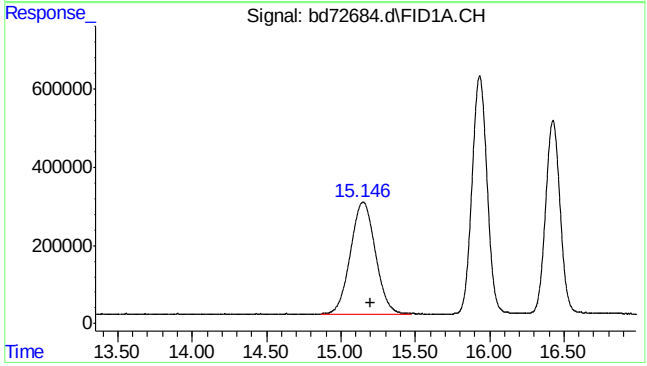
#2 rt7/10

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



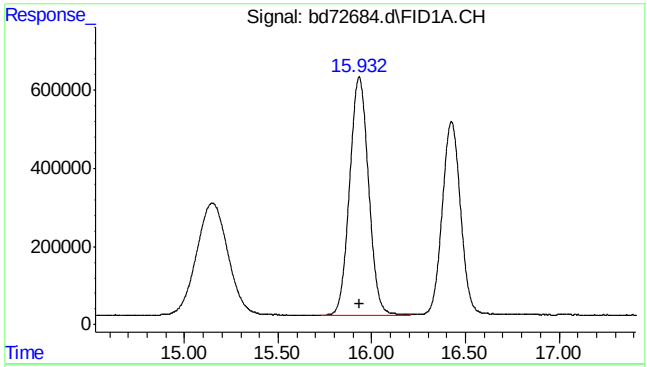
#3 mtbe

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



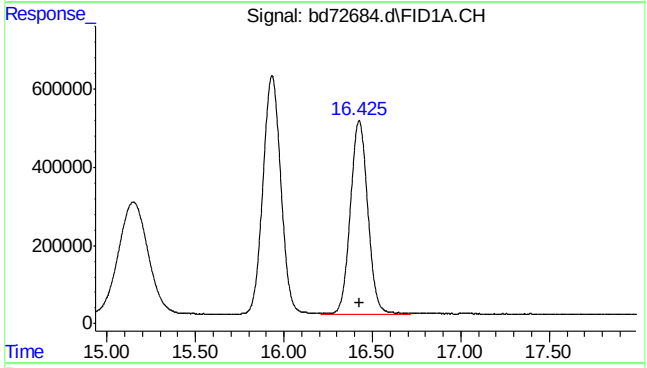
#4 rt10/13

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



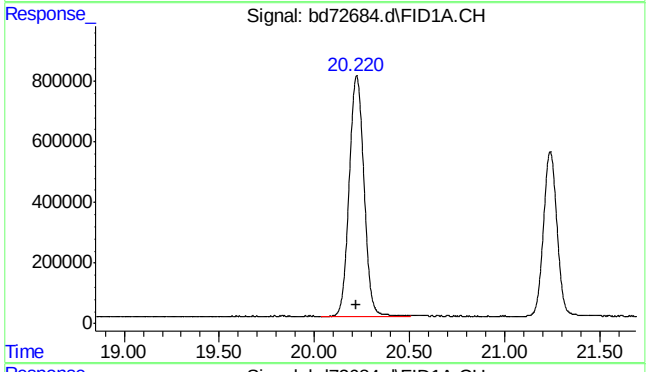
#5 benzene

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



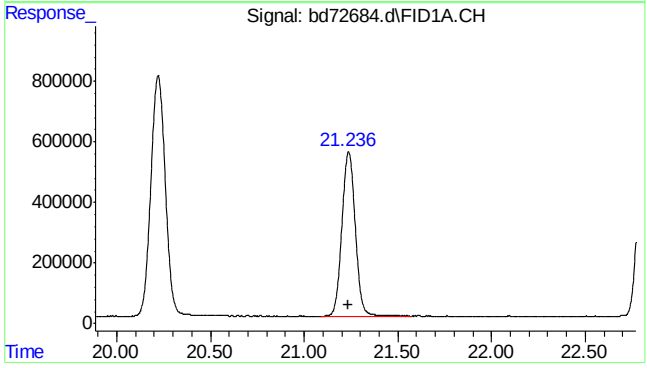
#6 fluorobenzene

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



#8 toluene

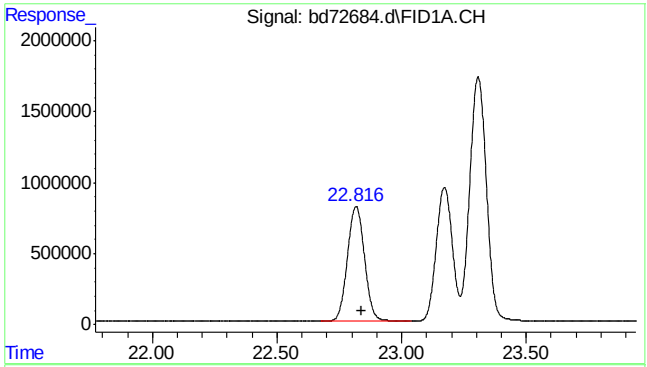
R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 42756685
Conc: 50.00 ppb



#9 2,3,4-trifluorotoluene

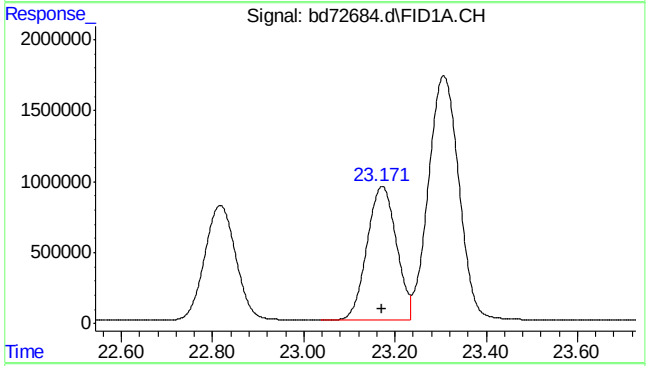
R.T.: 21.237 min
Delta R.T.: 0.000 min
Response: 26970091
Conc: 50.00 ppb

SGS ACCUTEST MC45580



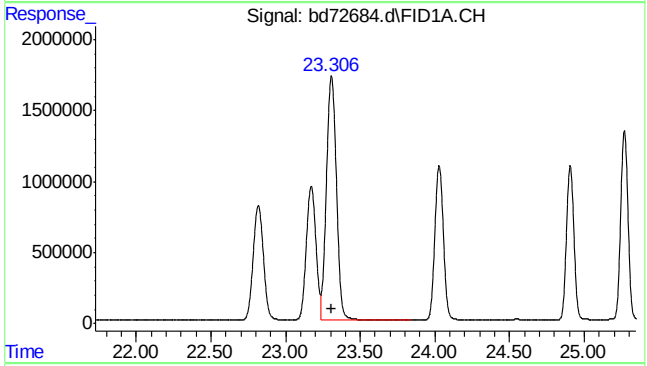
#11 rt20/25

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



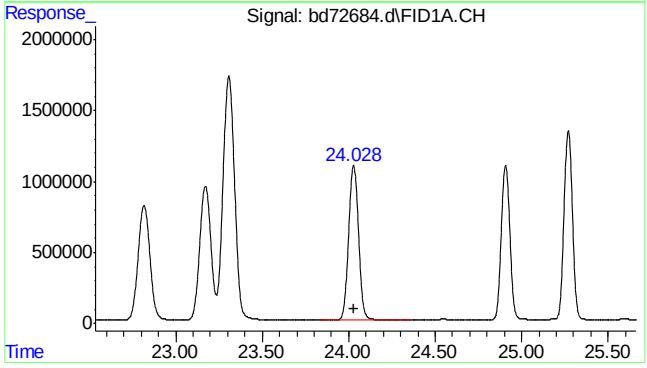
#13 ethylbenzene

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



#14 m,p-xylene

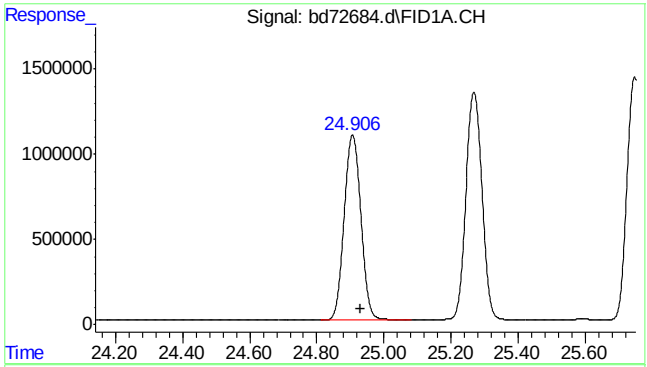
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 80812232
Conc: 100.00 ppb



#15 o-xylene

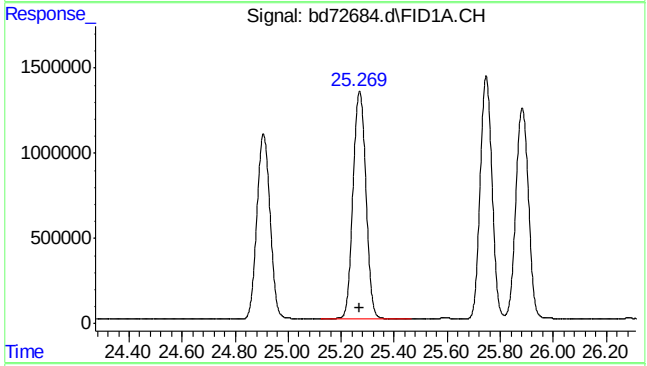
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 43434654
Conc: 50.00 ppb

SGS ACCUTEST MC45580



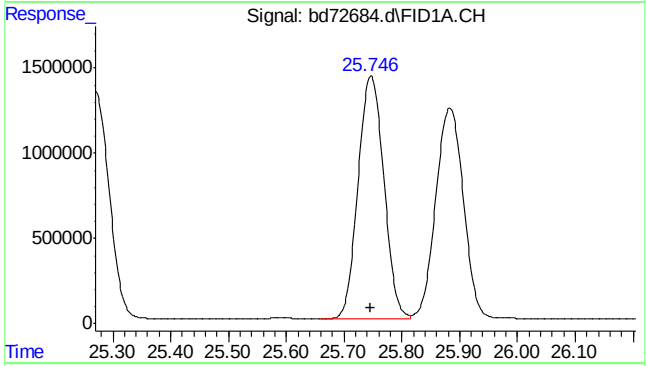
#16 decane

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



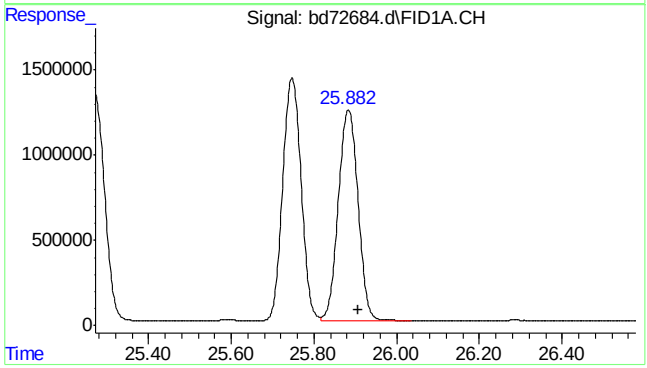
#17 1,3,5-trimethylbenzene

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



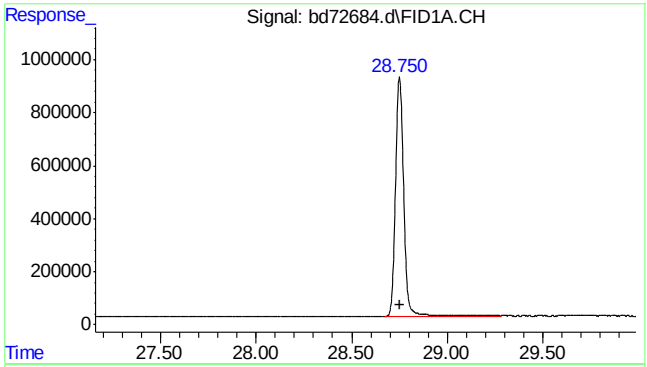
#18 1,2,4-trimethylbenzene

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



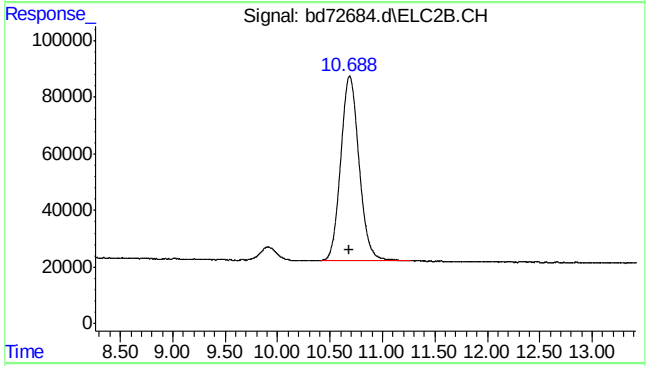
#19 butylcyclohexane

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



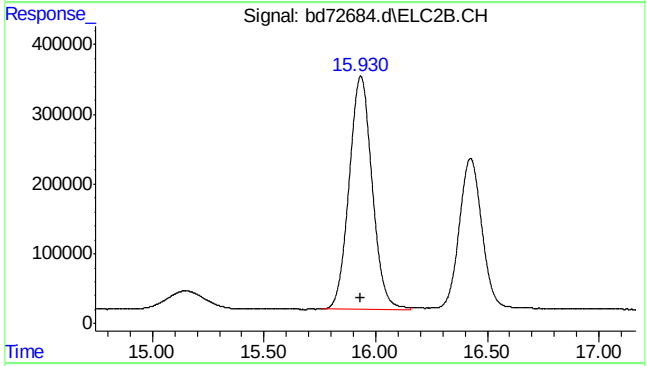
#20 naphthalene

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



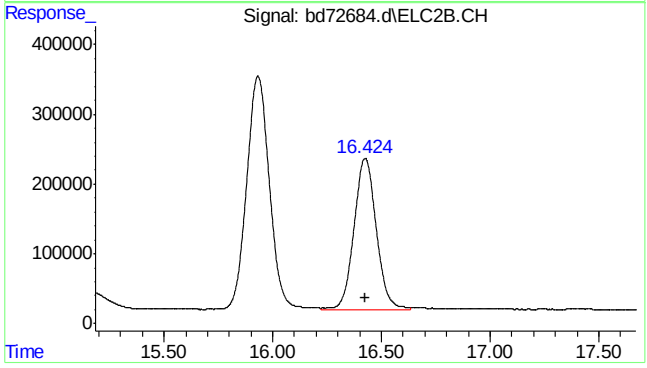
#23 mtbe #2

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



#24 benzene #2

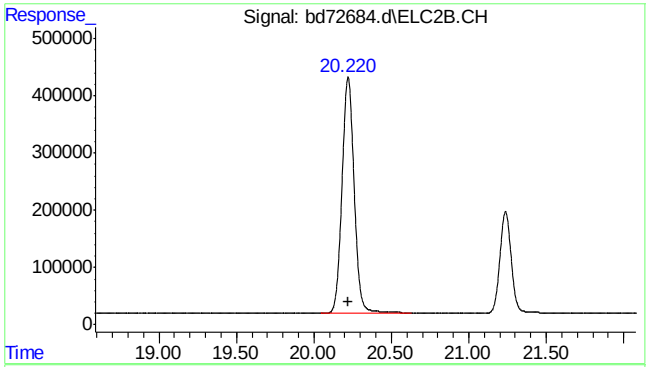
R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 24111272
Conc: 50.00 ppb



#25 fluorobenzene #2

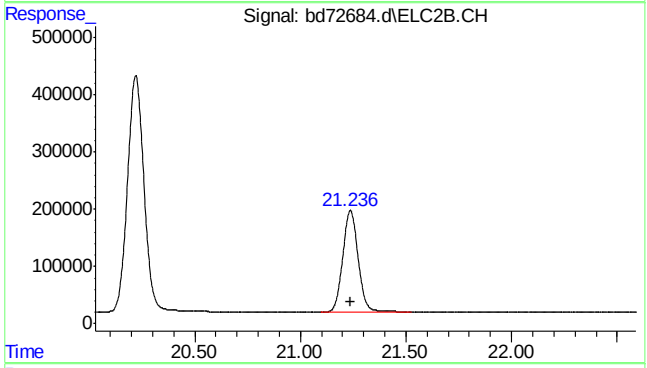
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 15383703
Conc: 50.00 ppb

SGS ACCUTEST MC45580



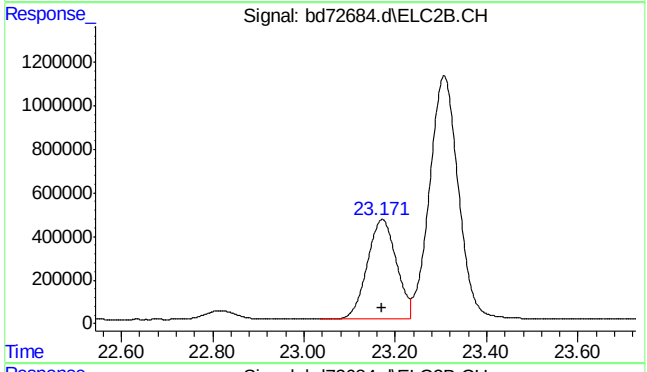
#26 toluene #2

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



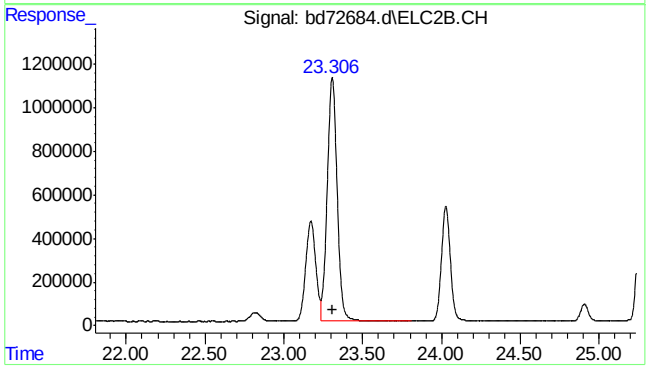
#27 2,3,4-trifluorotoluene #2

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



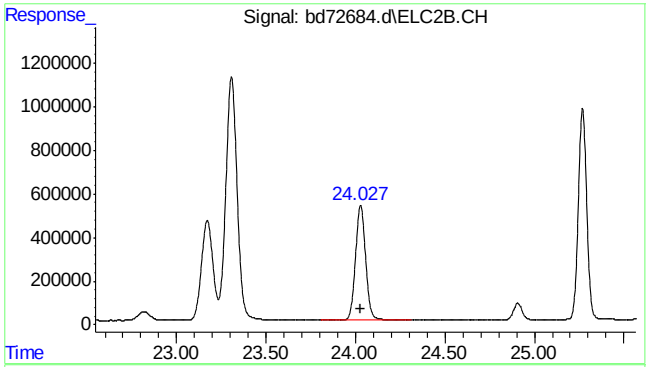
#28 ethylbenzene #2

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



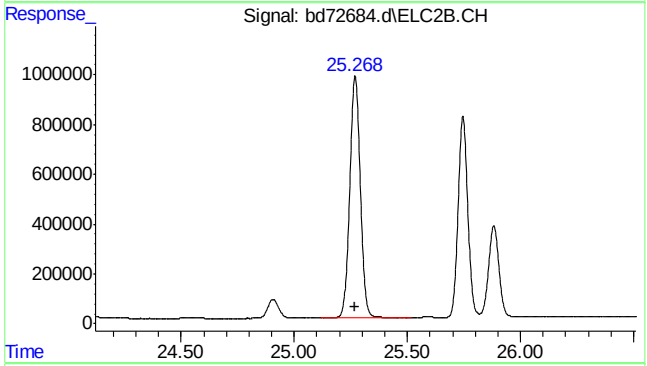
#29 m,p-xylene #2

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



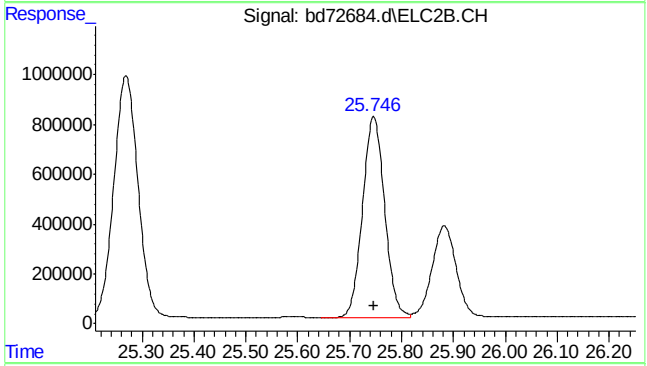
#30 o-xylene #2

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



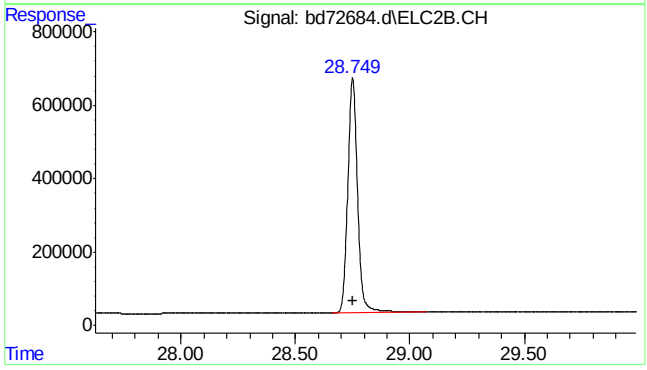
#31 1,3,5-trimethylbenzene #2

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



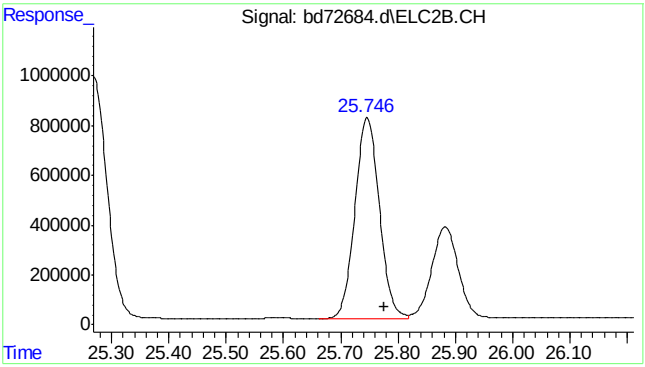
#32 1,2,4-trimethylbenzene #2

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



#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

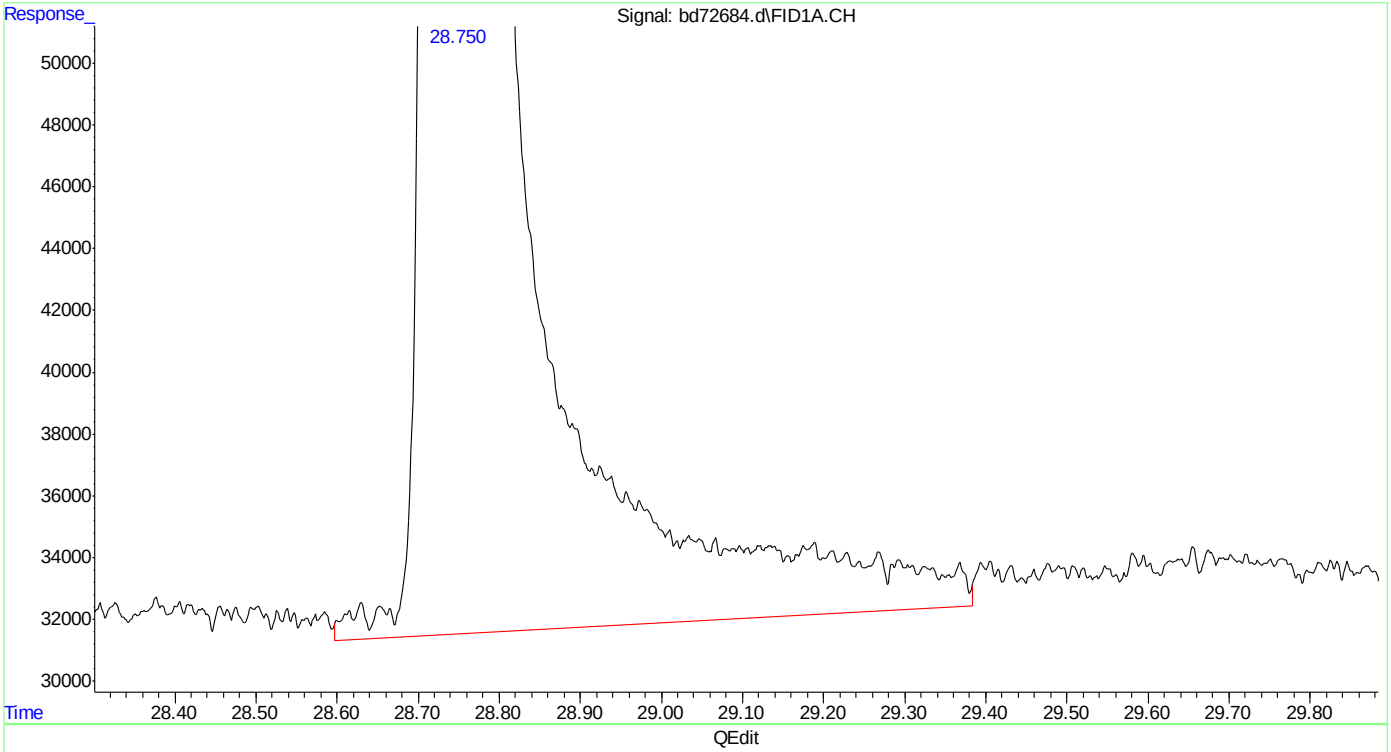
SGS ACCUTEST MC45580

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

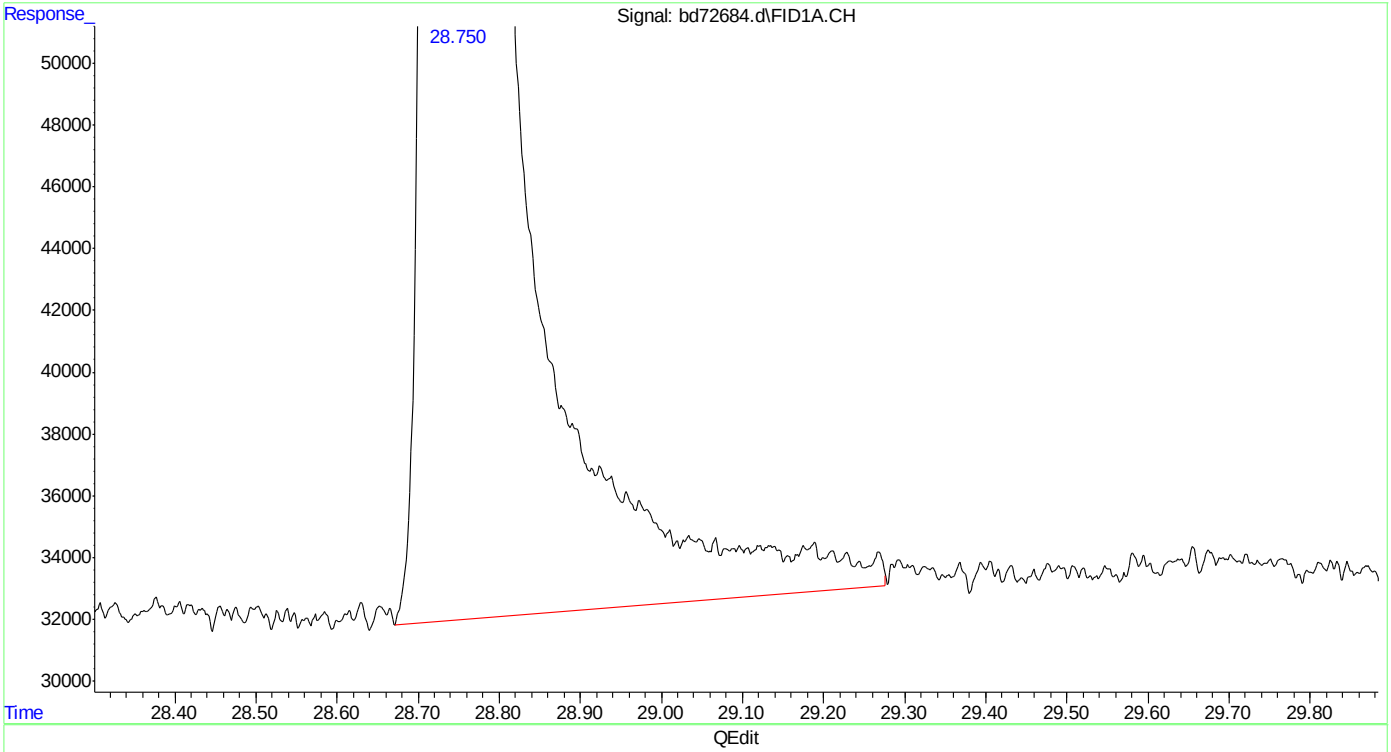
(+) = Expected Retention Time

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

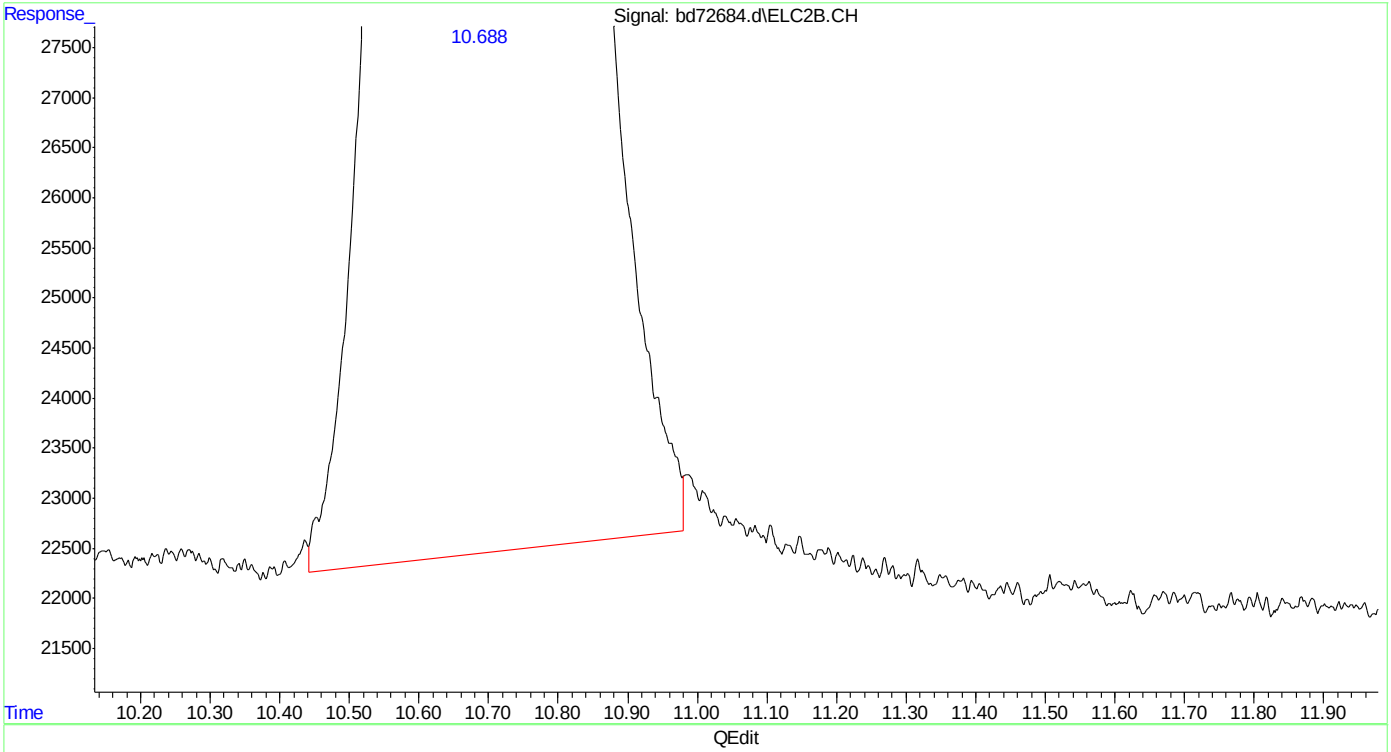
(+) = Expected Retention Time

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

bd160219master.M Fri Feb 19 10:43:53 2016

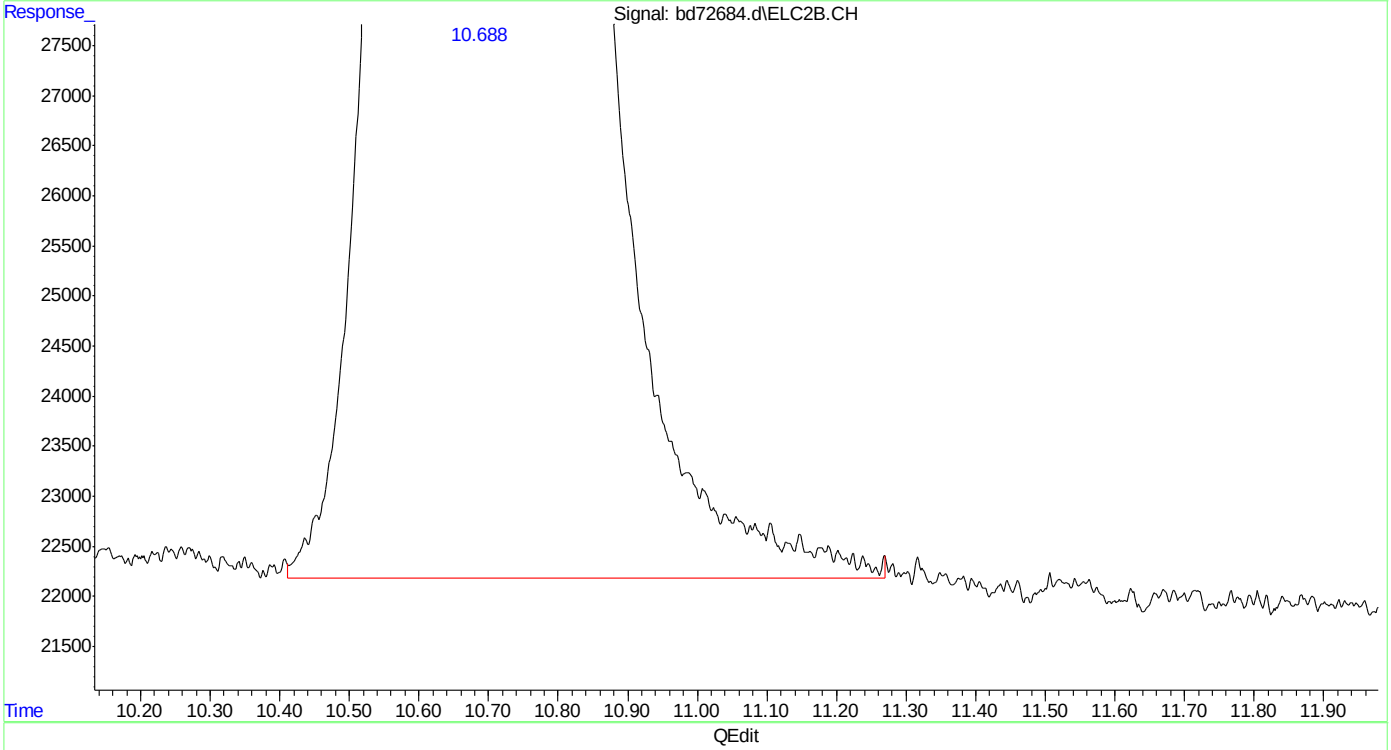
SGS ACCUTEST MC45580

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

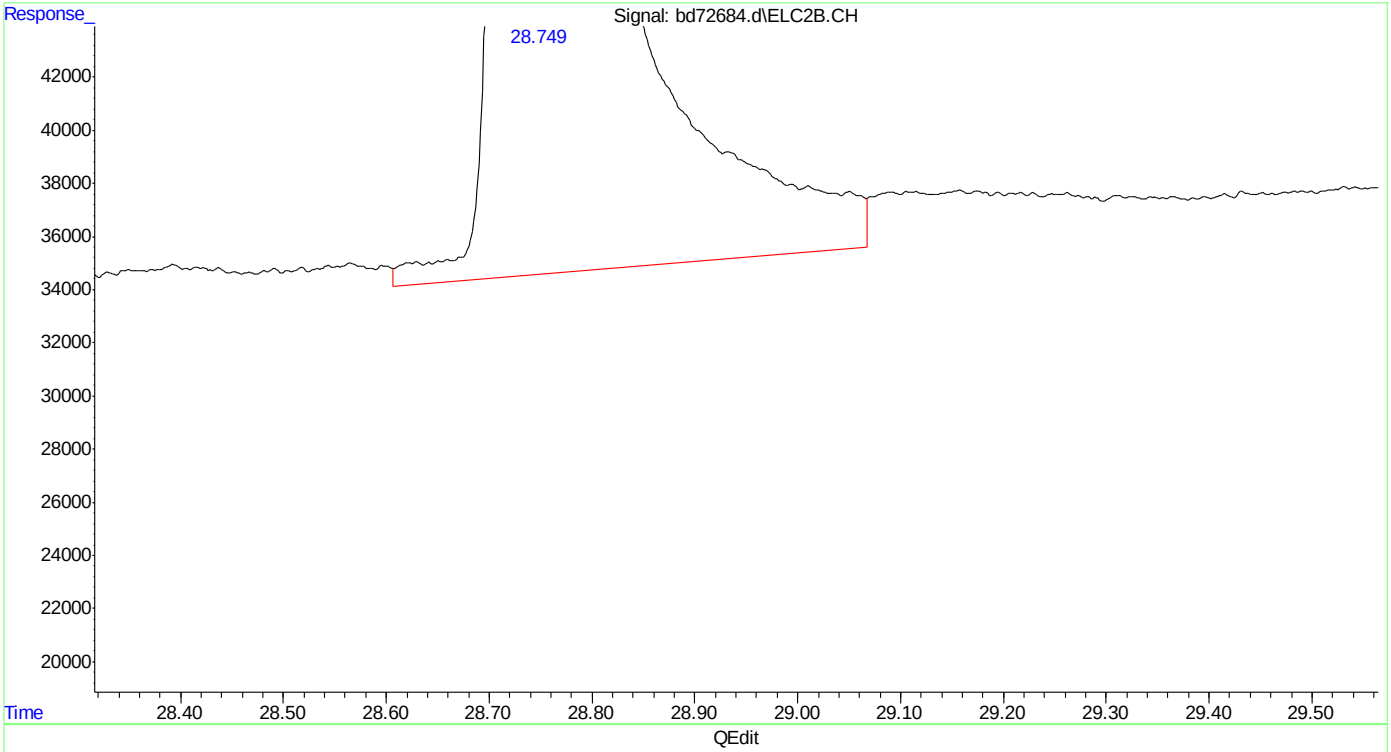
(+) = Expected Retention Time

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
bd160219master.M Fri Feb 19 10:44:11 2016

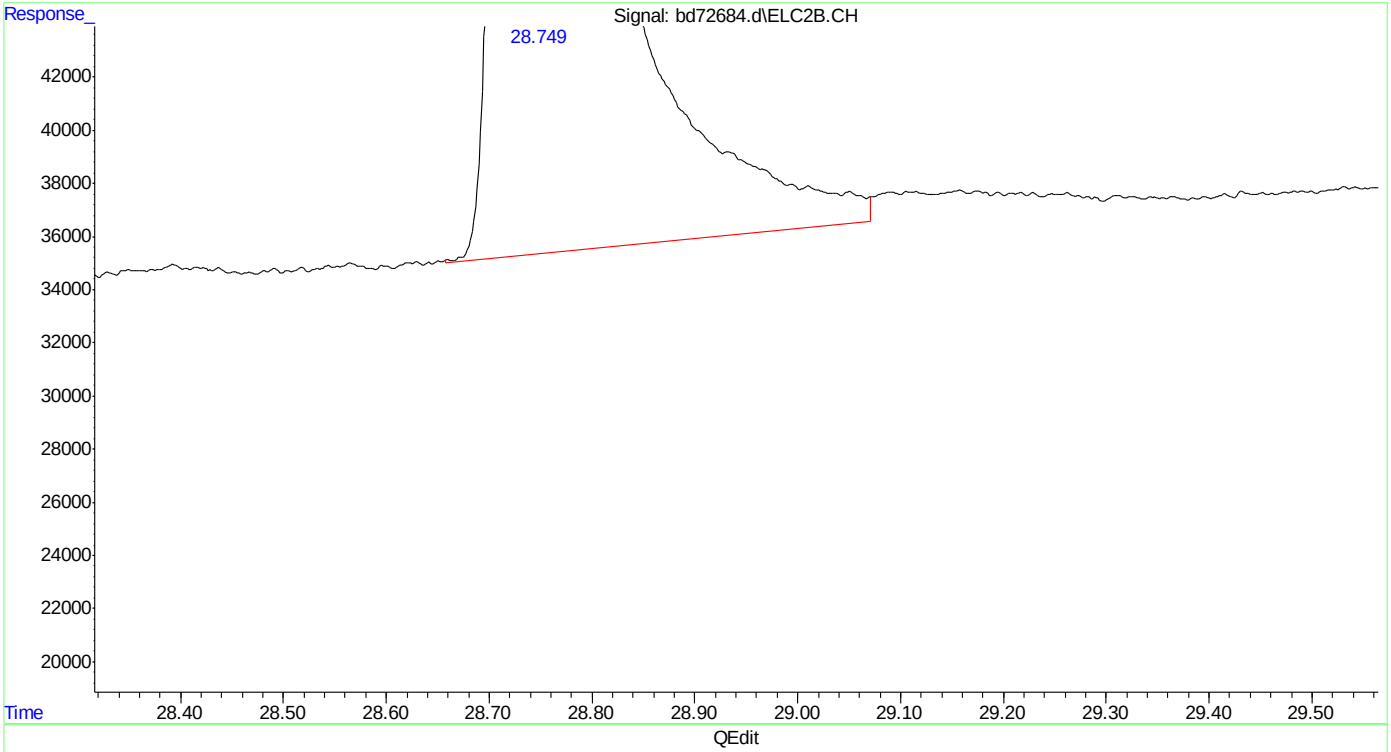
SGS ACCUTEST MC45580

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

SGS ACCUTEST MC45580

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

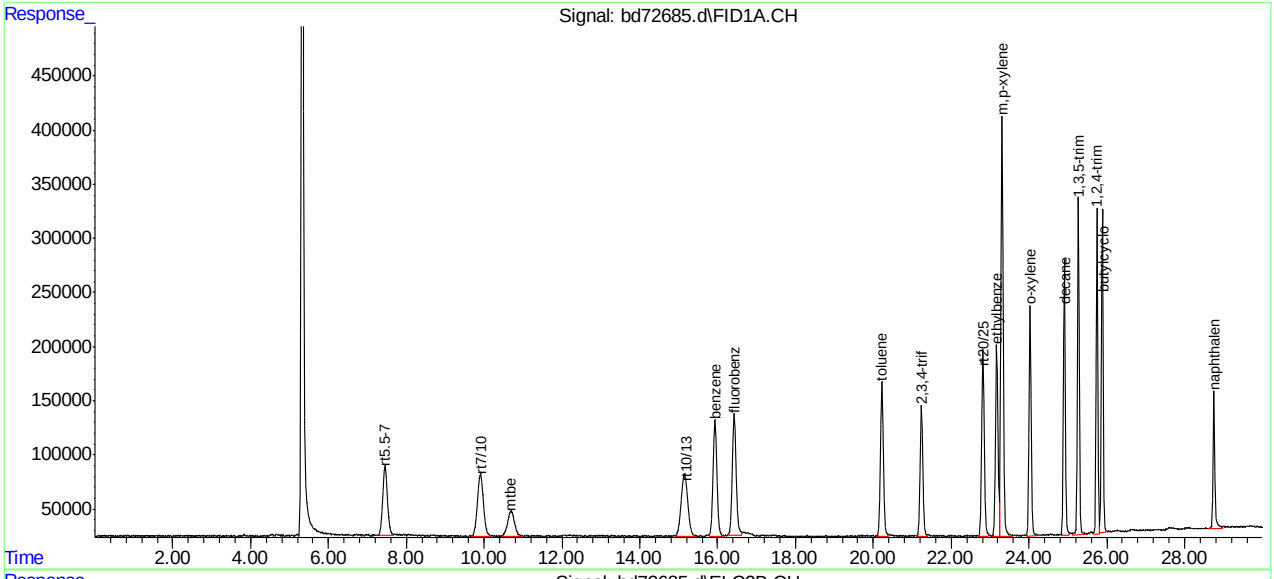
(f)=RT Delta > 1/2 Window (m)=manual int.

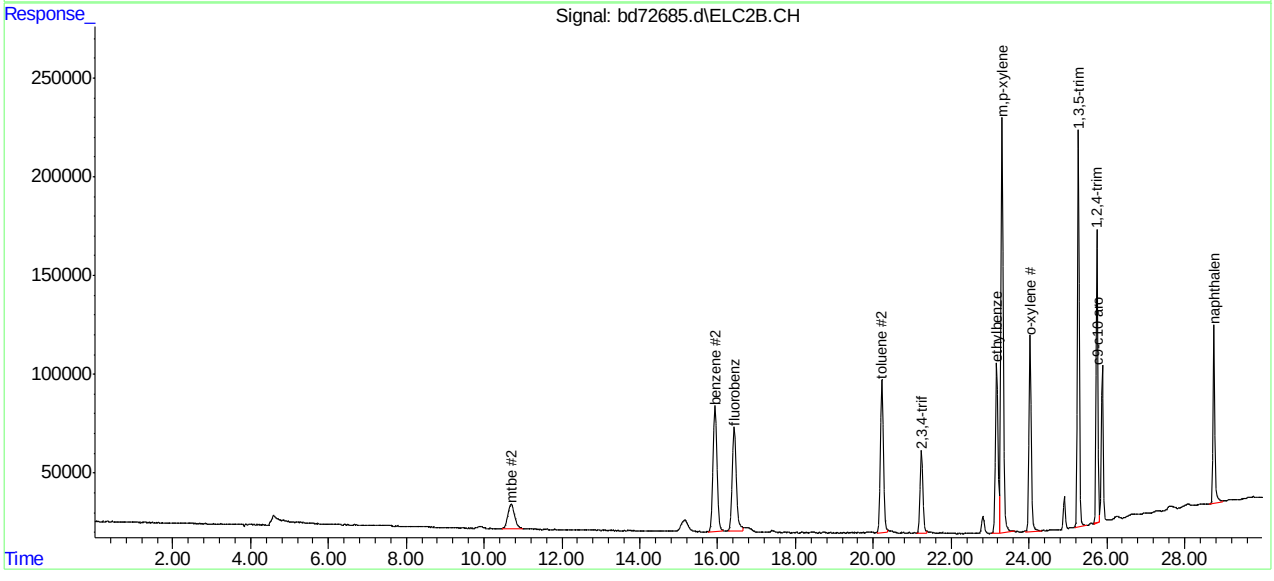
Quantitation Report (QT Reviewed)

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

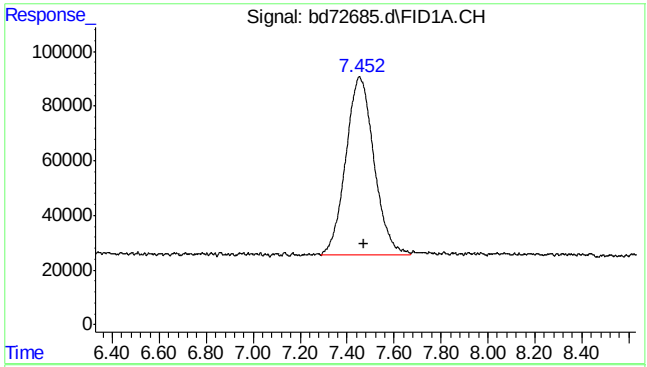
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:05:07 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:00:17 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: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

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



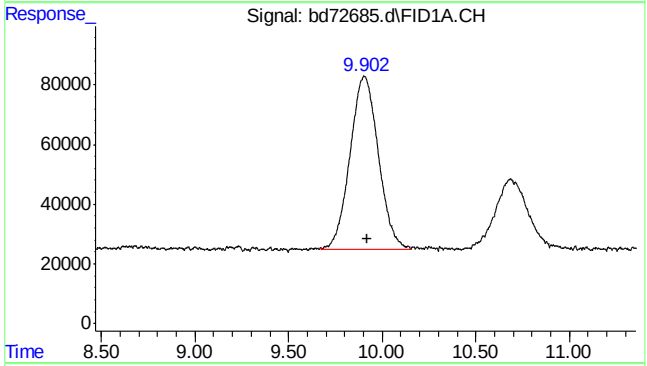


SGS ACCUTEST MC45580



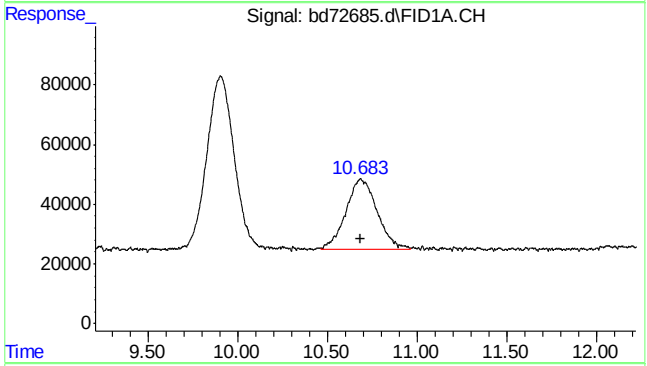
#1 rt5.5-7

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



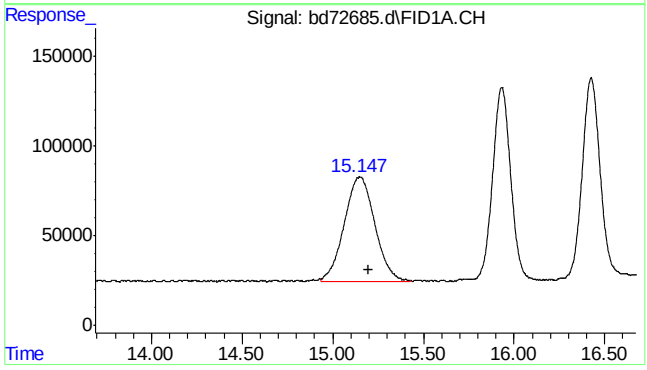
#2 rt7/10

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



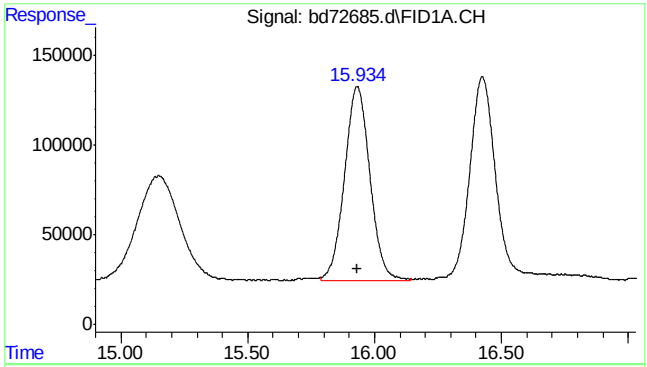
#3 mtbe

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



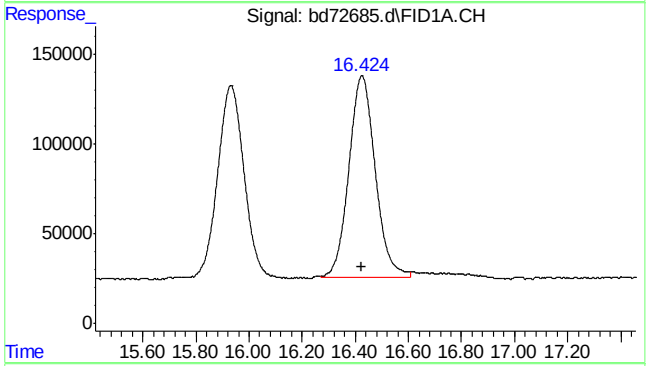
#4 rt10/13

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



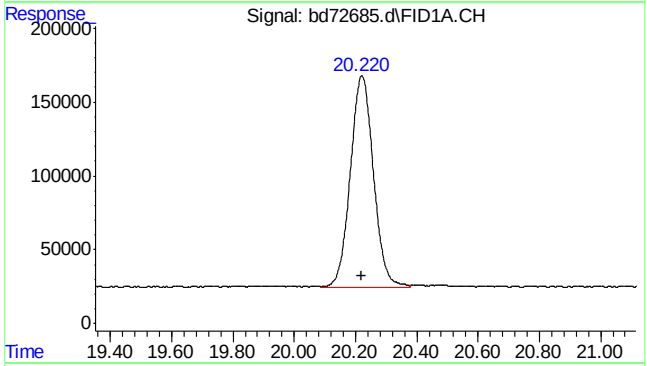
#5 benzene

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



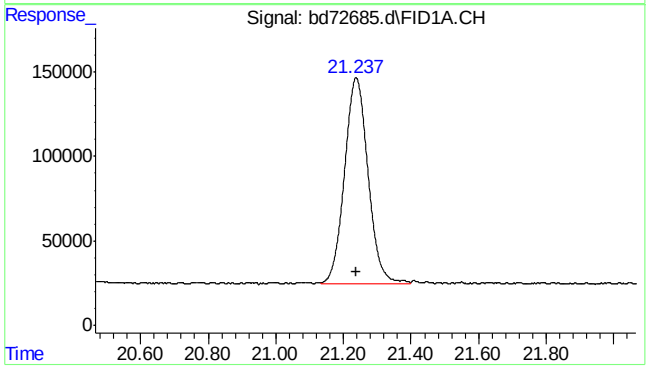
#6 fluorobenzene

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

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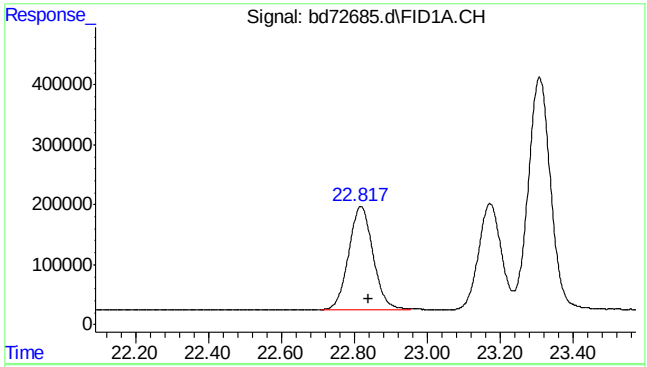
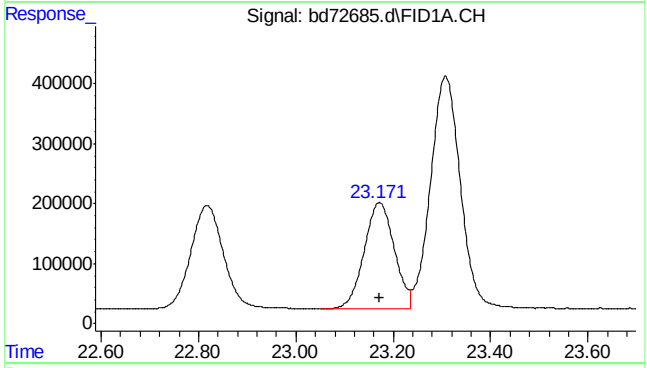


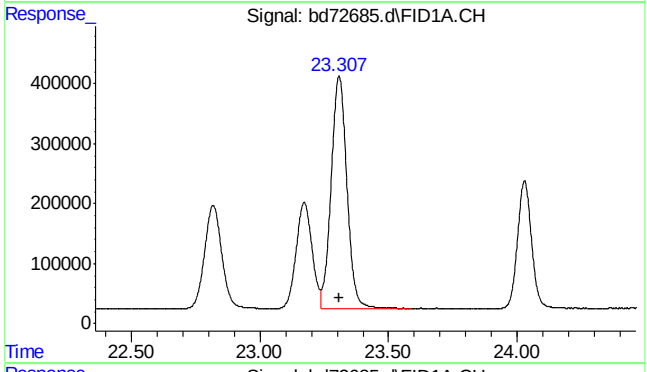
#11 rt20/25

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



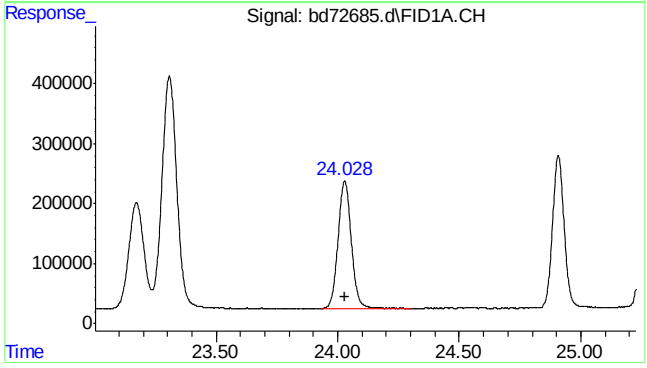
#13 ethylbenzene

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



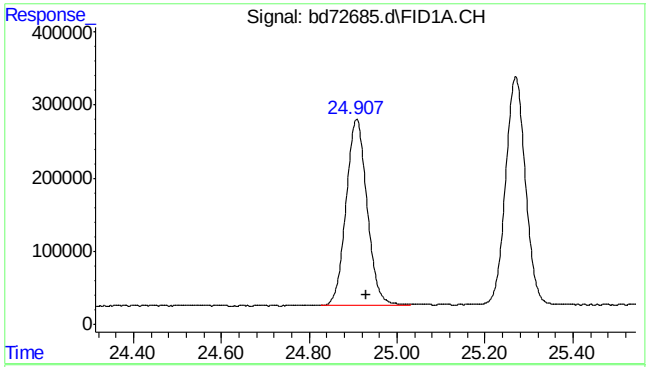
#14 m,p-xylene

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



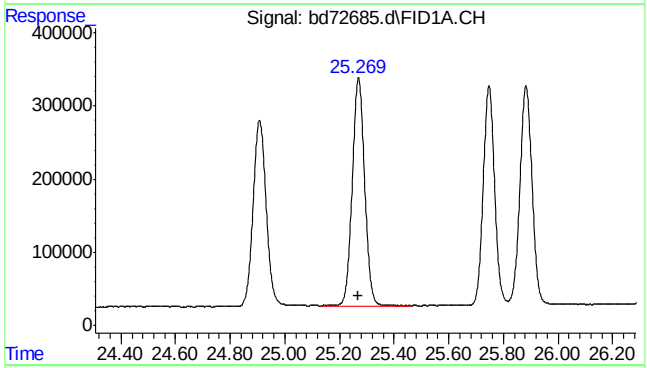
#15 o-xylene

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



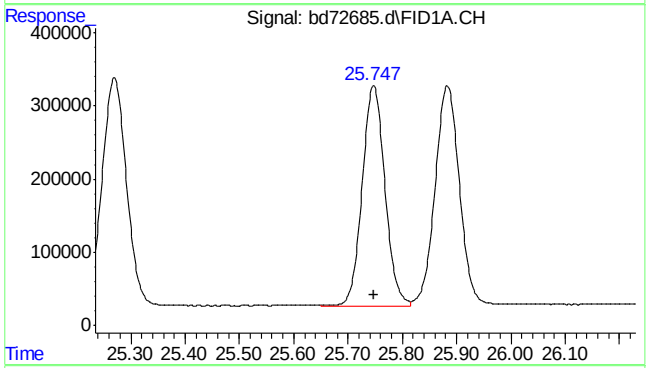
#16 decane

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



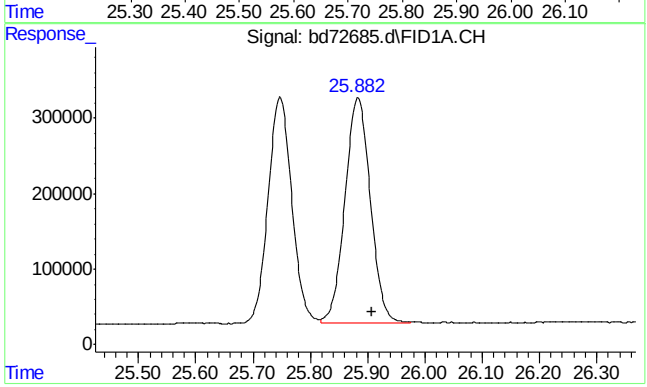
#17 1,3,5-trimethylbenzene

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

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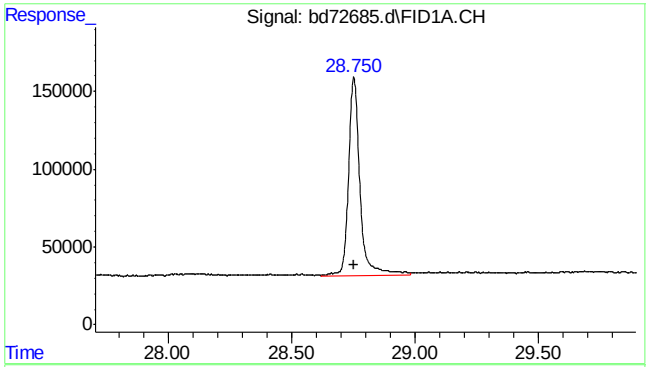
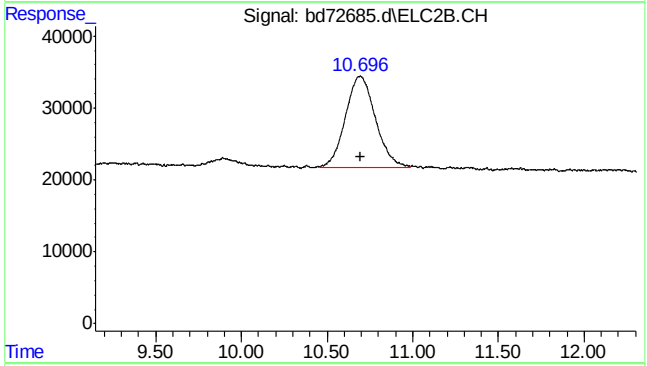


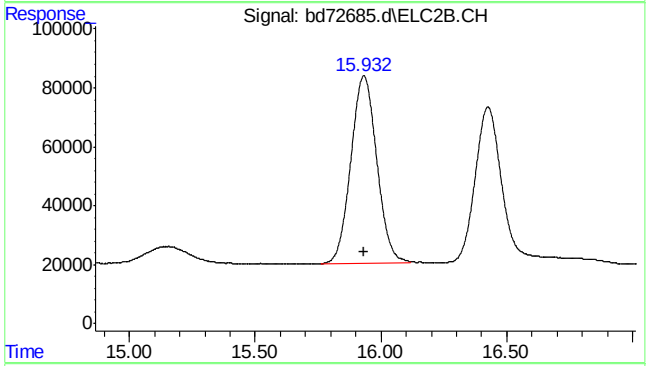
#20 naphthalene

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



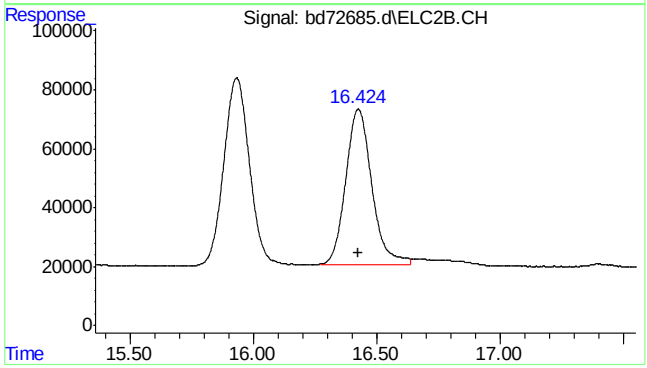
#23 mtbe #2

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



#24 benzene #2

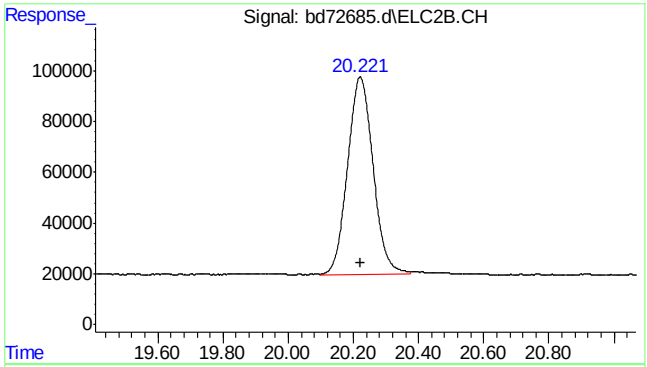
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 4569131
Conc: 9.76 ppb



#25 fluorobenzene #2

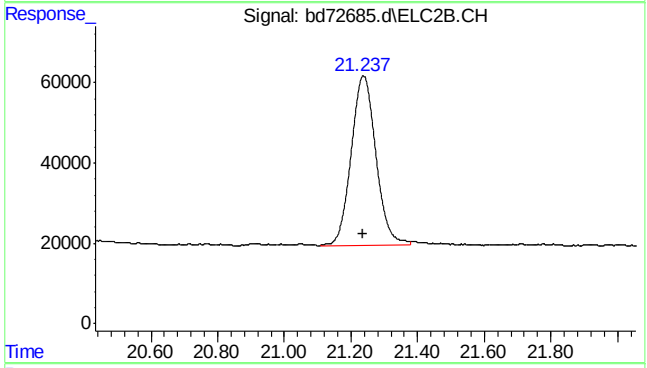
R.T.: 16.424 min
Delta R.T.: 0.000 min
Response: 3885600
Conc: 10.97 ppb m

SGS ACCUTEST MC45580



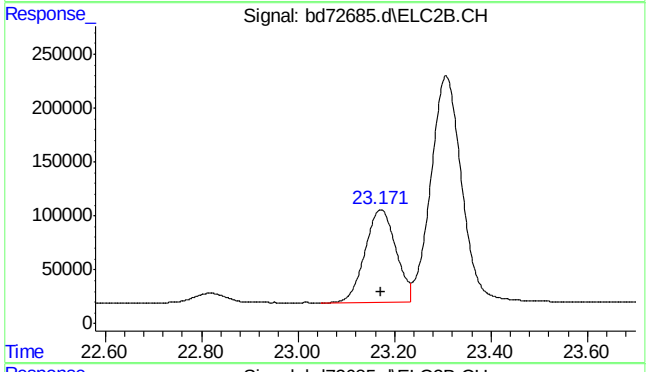
#26 toluene #2

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



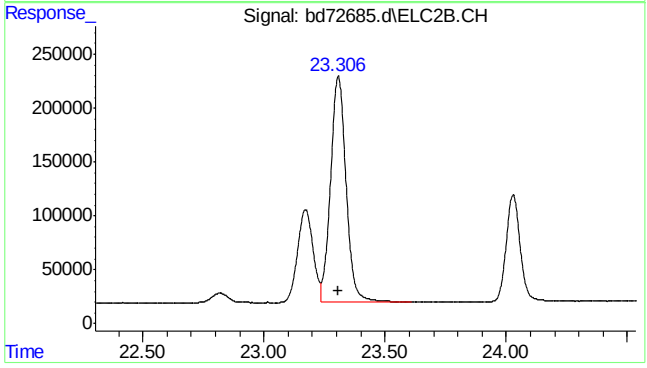
#27 2,3,4-trifluorotoluene #2

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



#28 ethylbenzene #2

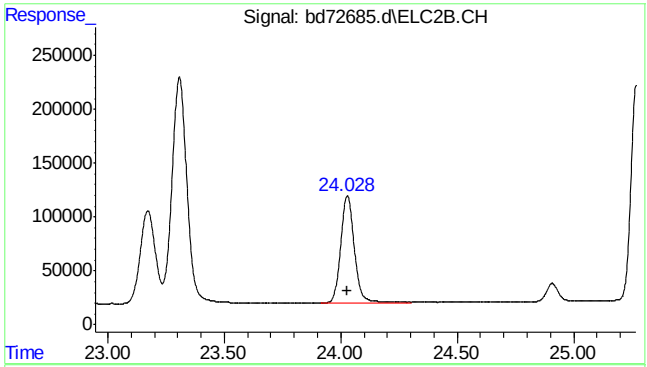
R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3840788
Conc: 9.81 ppb



#29 m,p-xylene #2

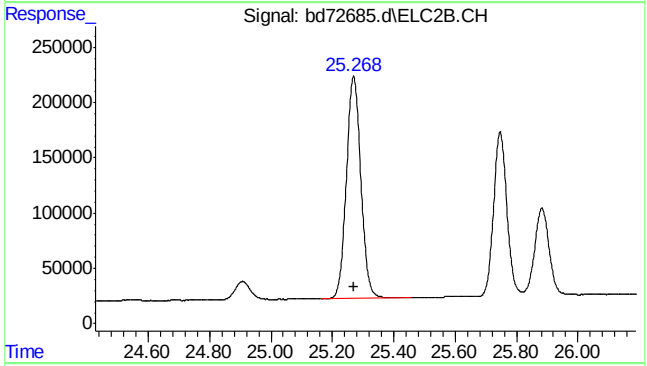
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 9363713
Conc: 19.64 ppb

SGS ACCUTEST MC45580



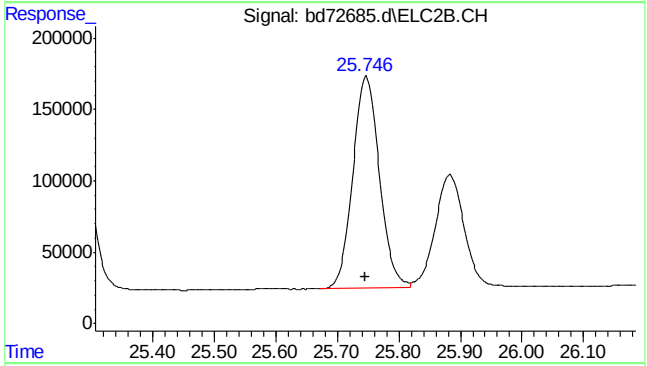
#30 o-xylene #2

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



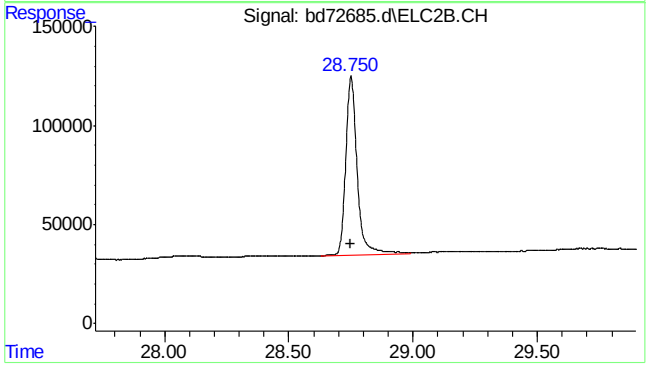
#31 1,3,5-trimethylbenzene #2

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



#32 1,2,4-trimethylbenzene #2

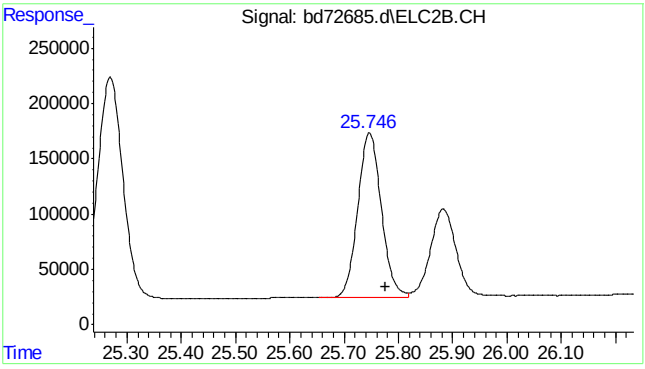
R.T.: 25.746 min
Delta R.T.: 0.000 min
Response: 4478298
Conc: 9.73 ppb m



#33 naphthalene #2

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

SGS ACCUTEST MC45580



#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

7.5.6

7

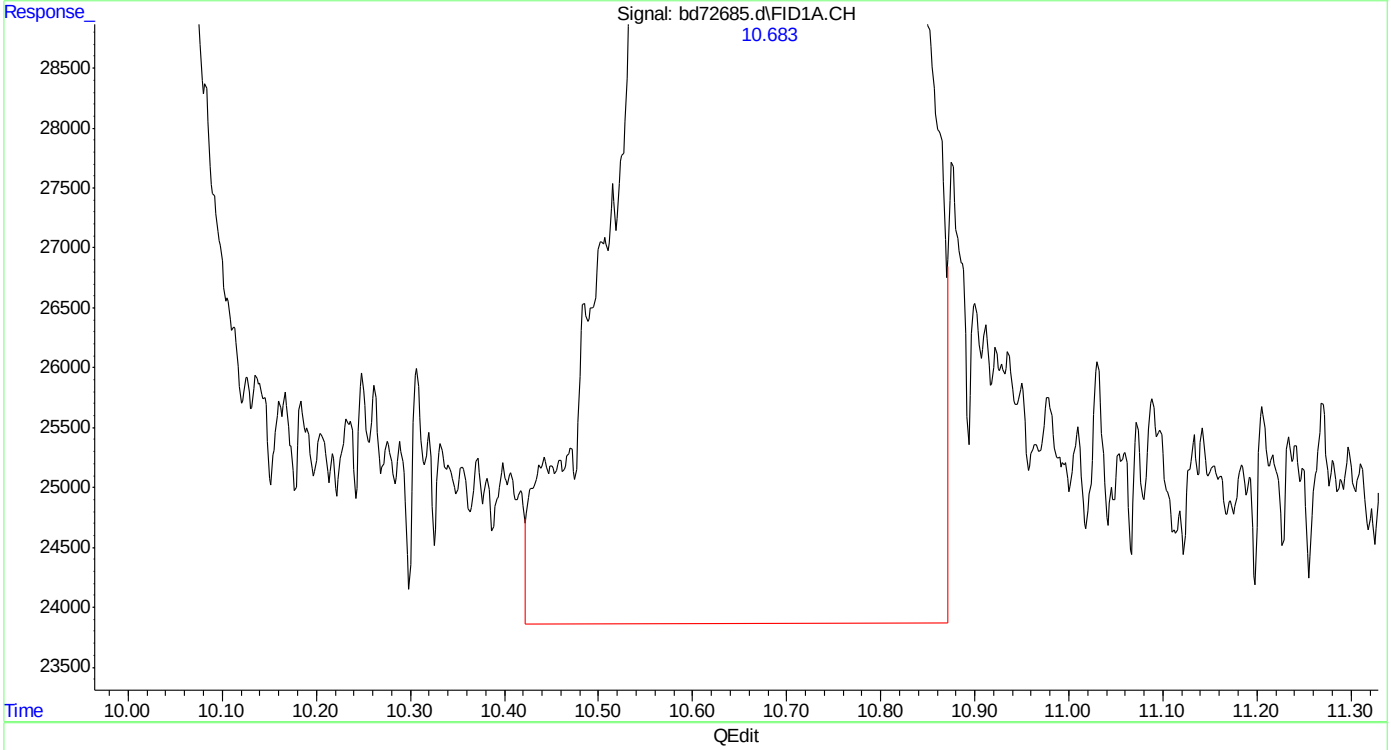
SGS ACCUTEST MC45580

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

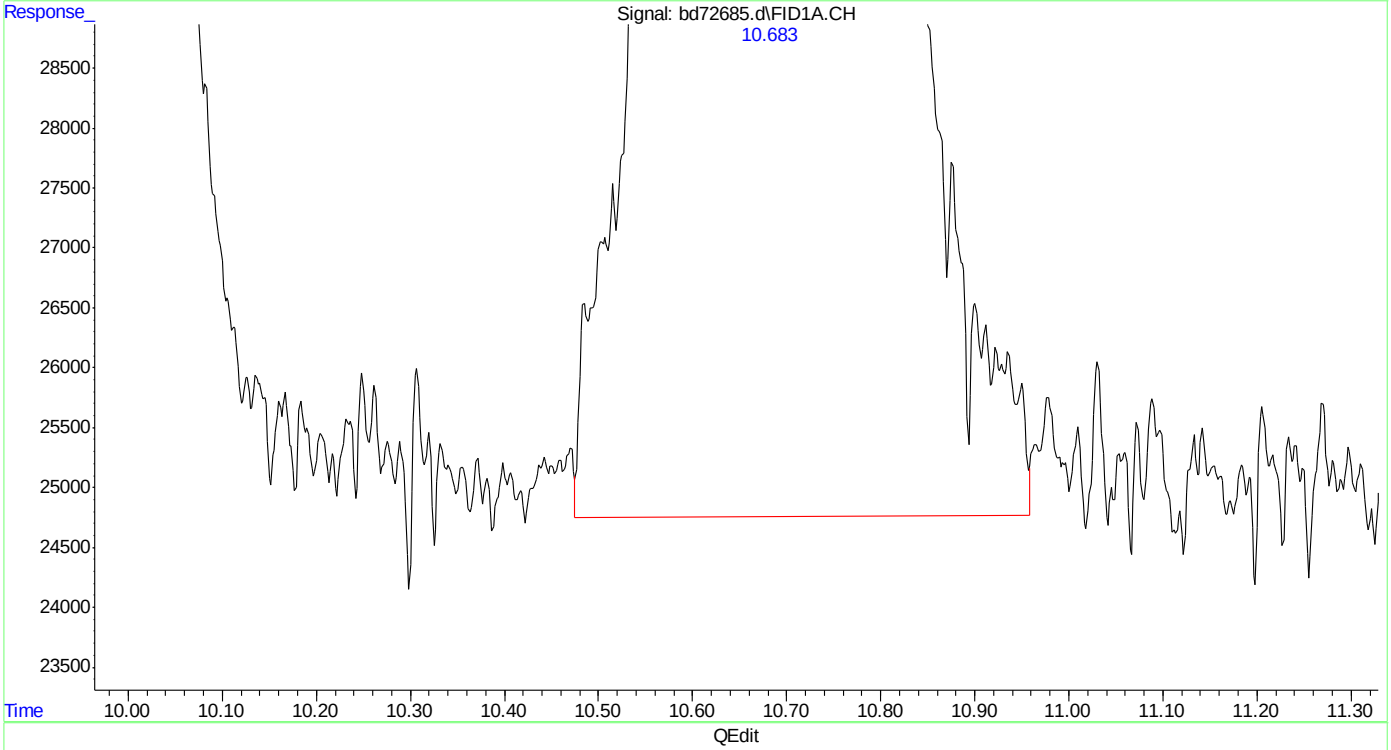
(+) = Expected Retention Time

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

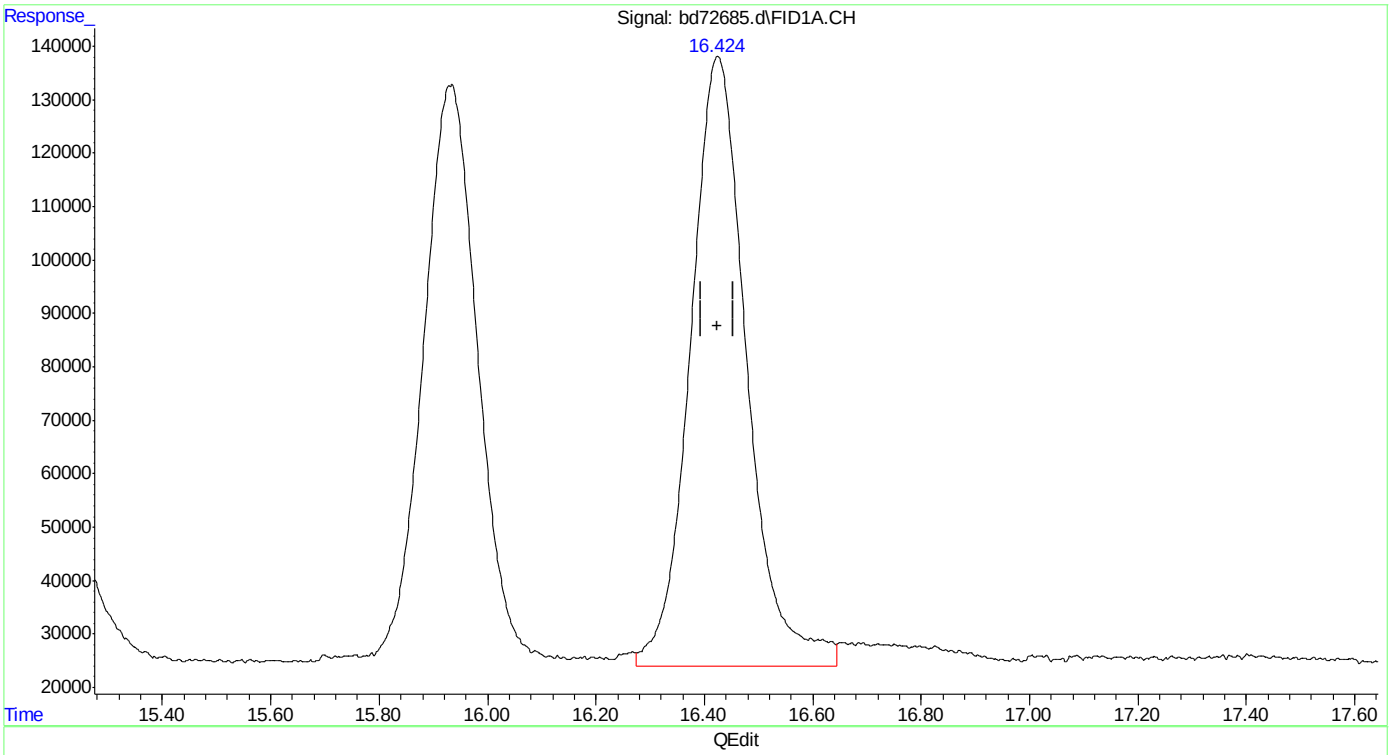
(+) = Expected Retention Time

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

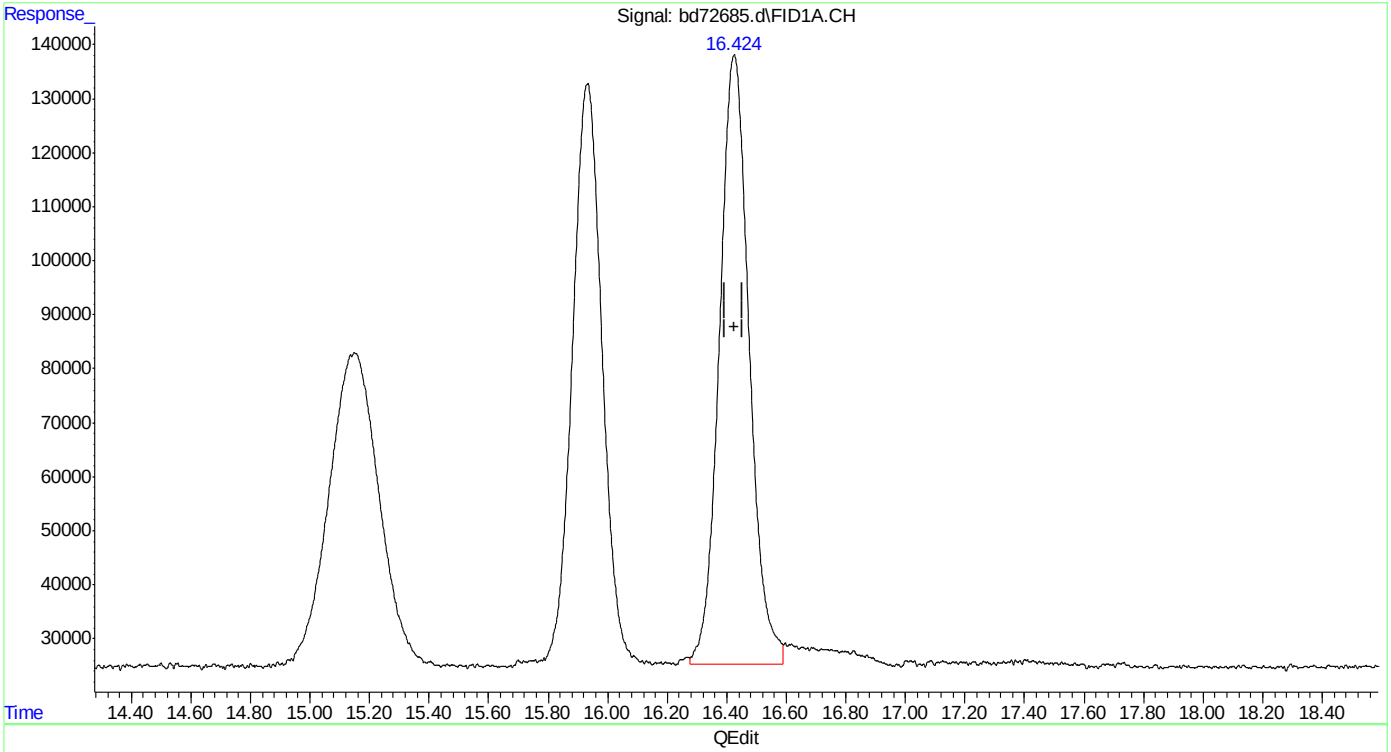
(+) = Expected Retention Time

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

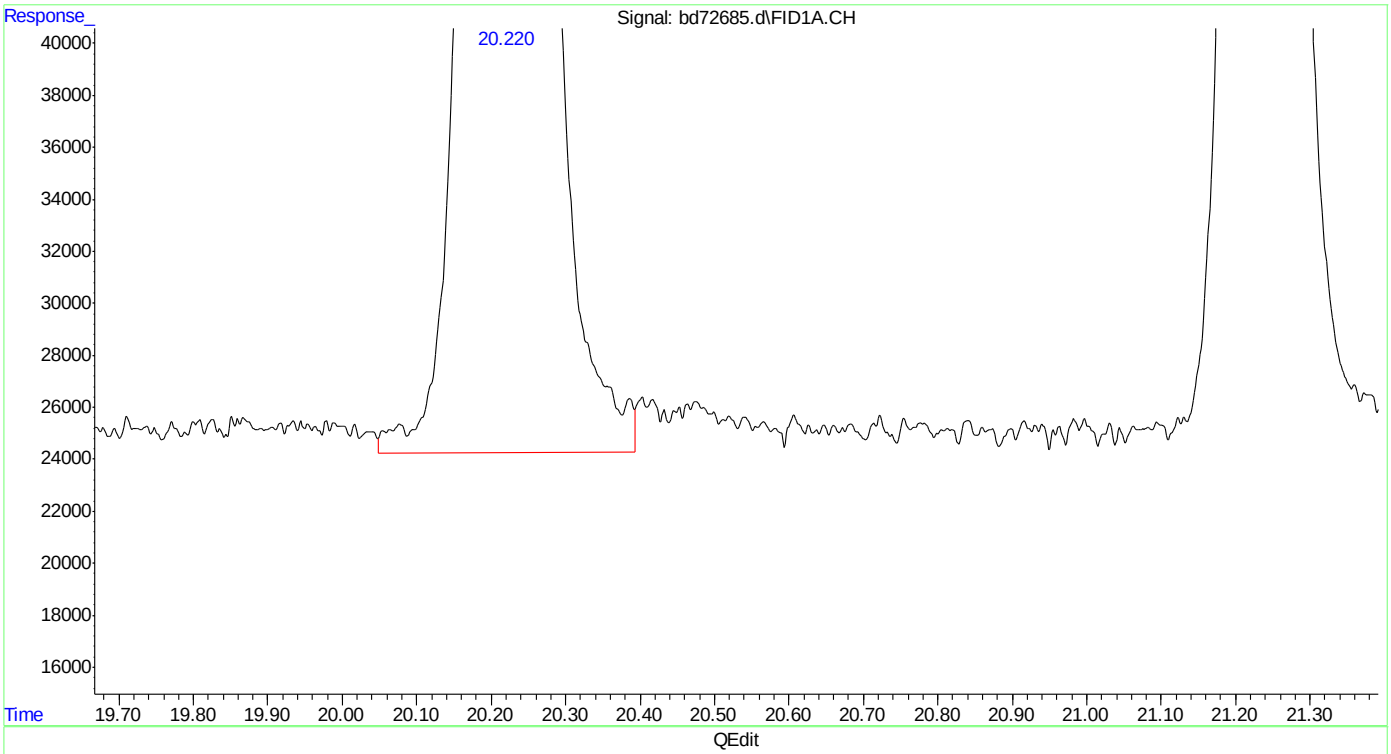
SGS ACCUTEST MC45580

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

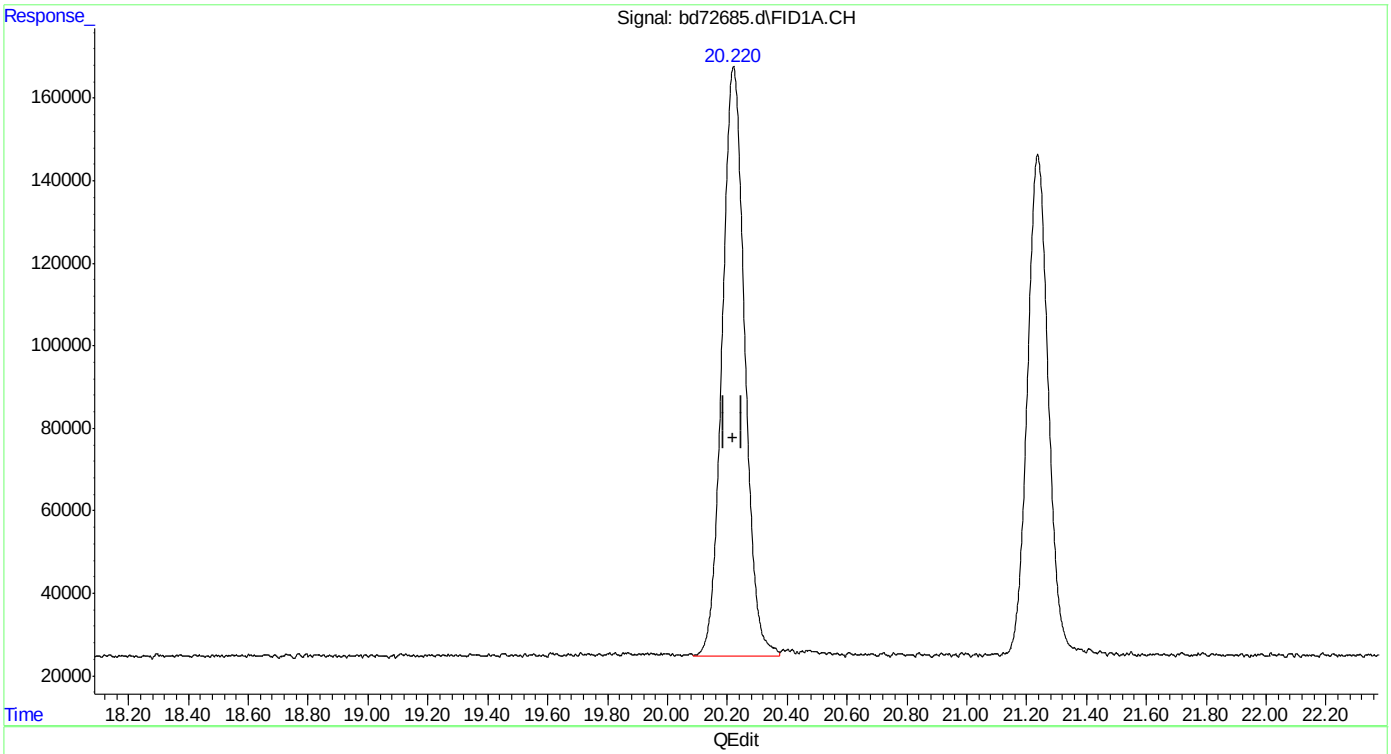
SGS ACCUTEST MC45580

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

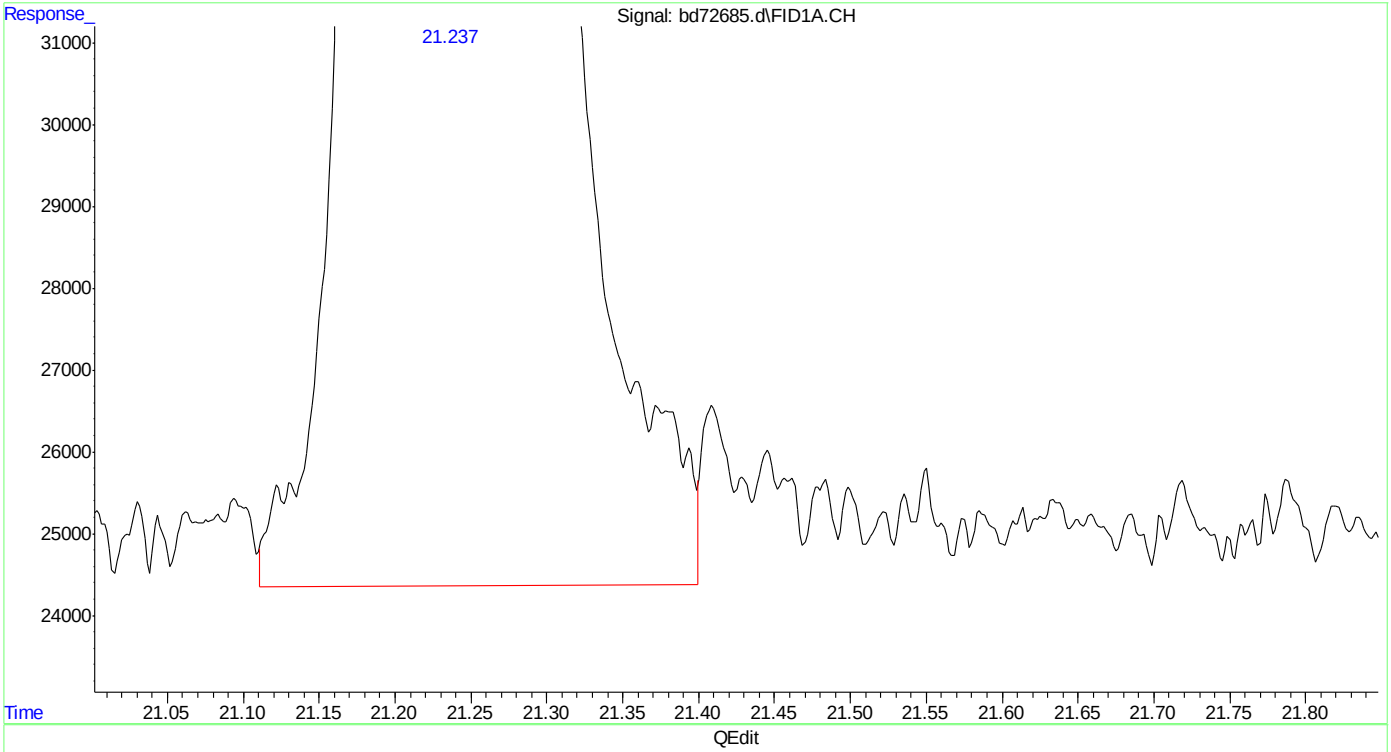
SGS ACCUTEST MC45580

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

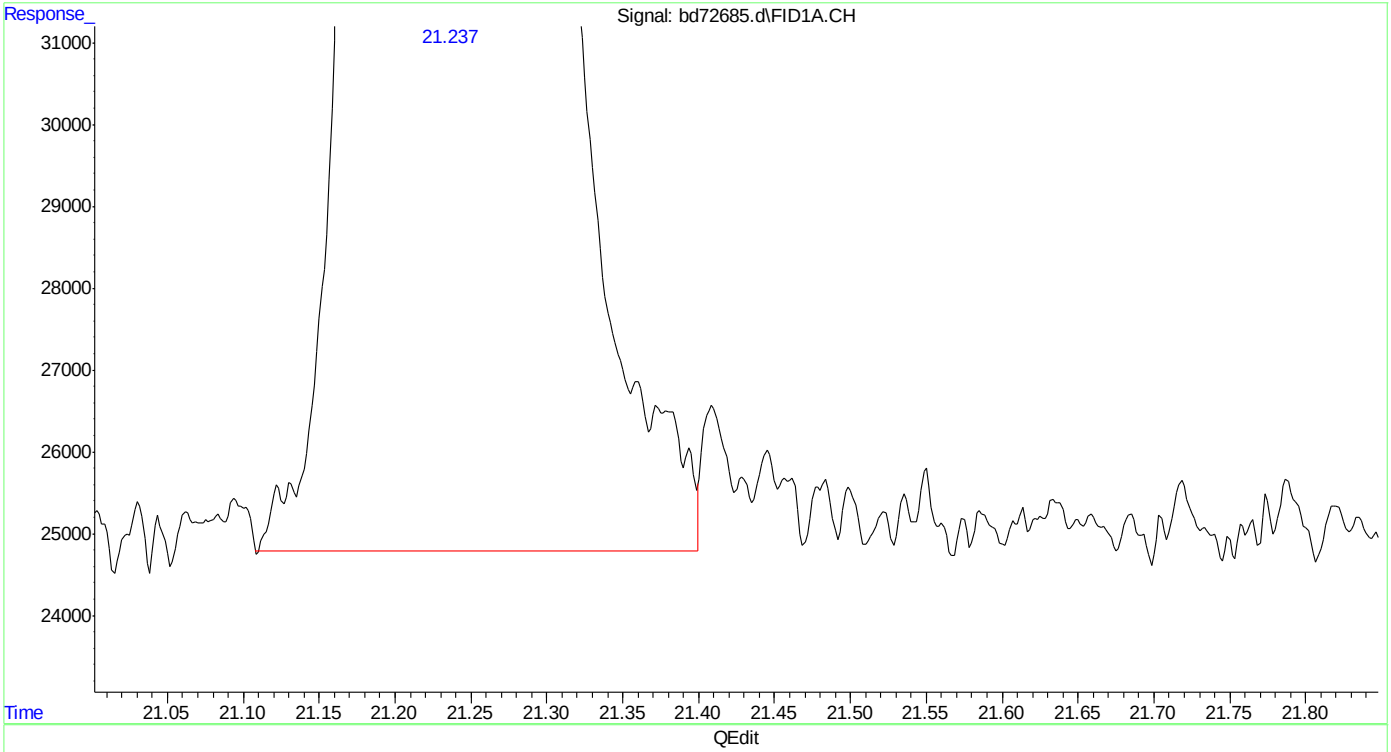
(+) = Expected Retention Time

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

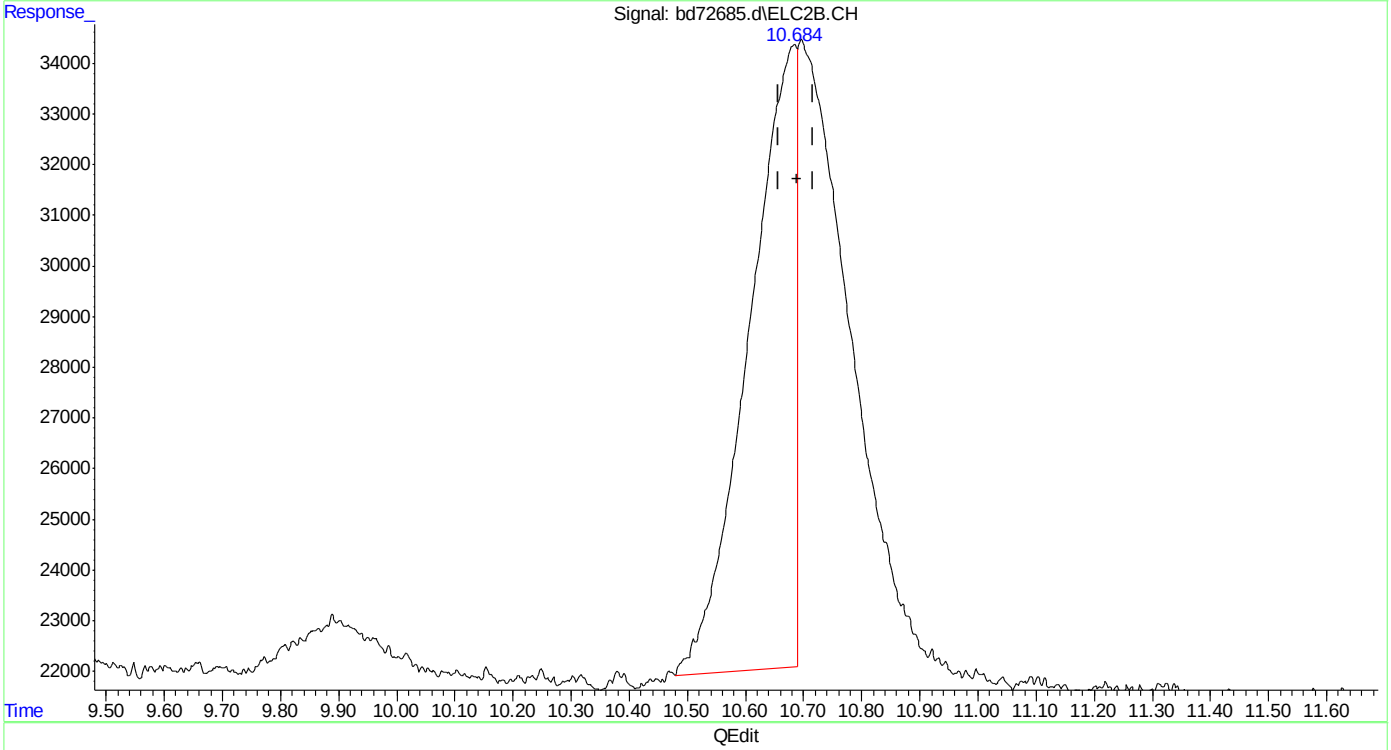
(+) = Expected Retention Time

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

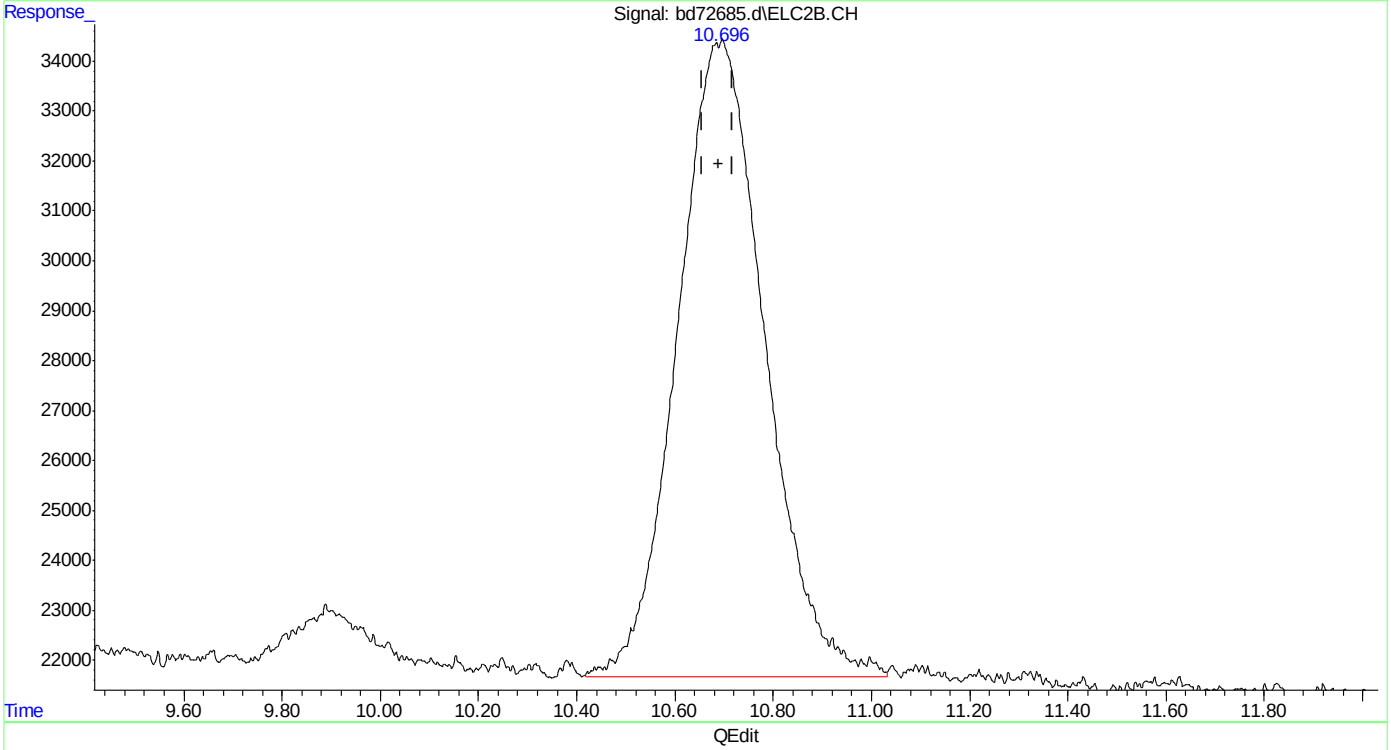
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:21 2016 Page: 1

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

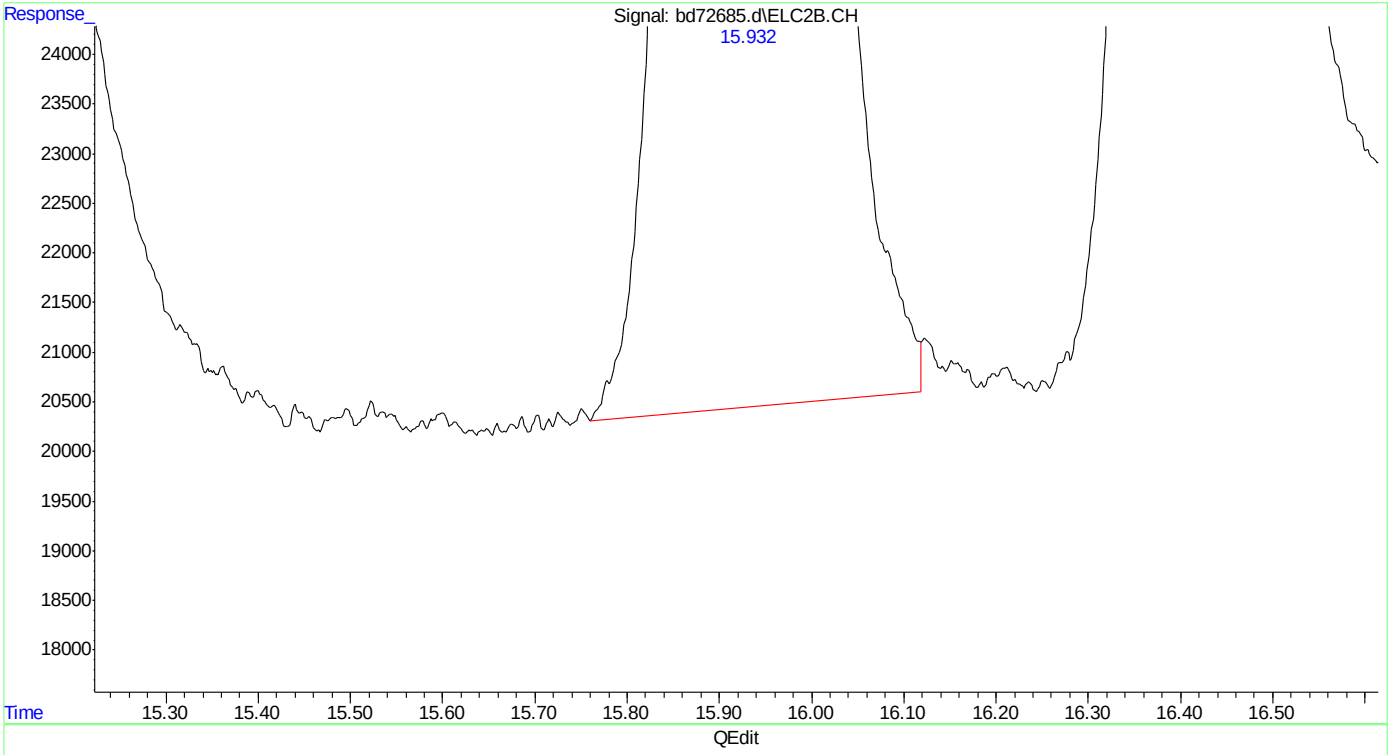
(+) = Expected Retention Time

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

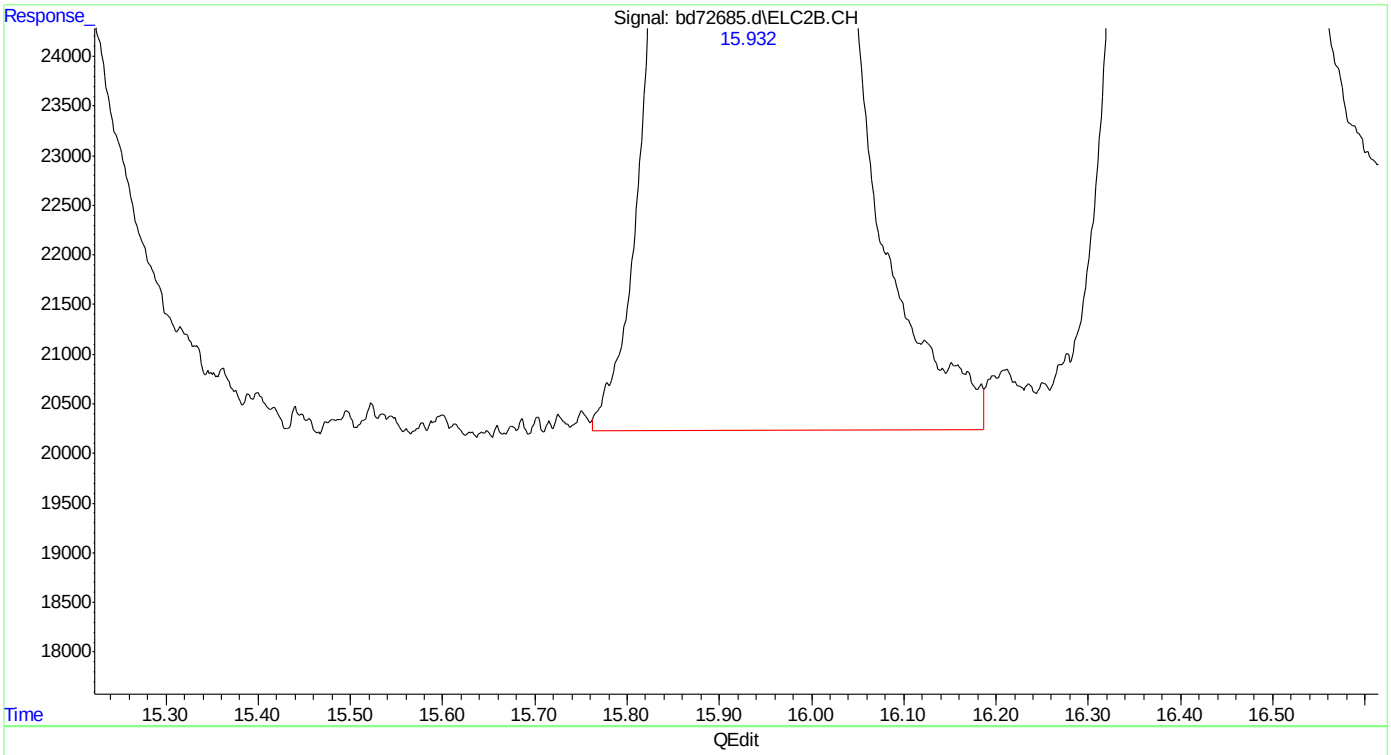
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:34 2016 Page: 1

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

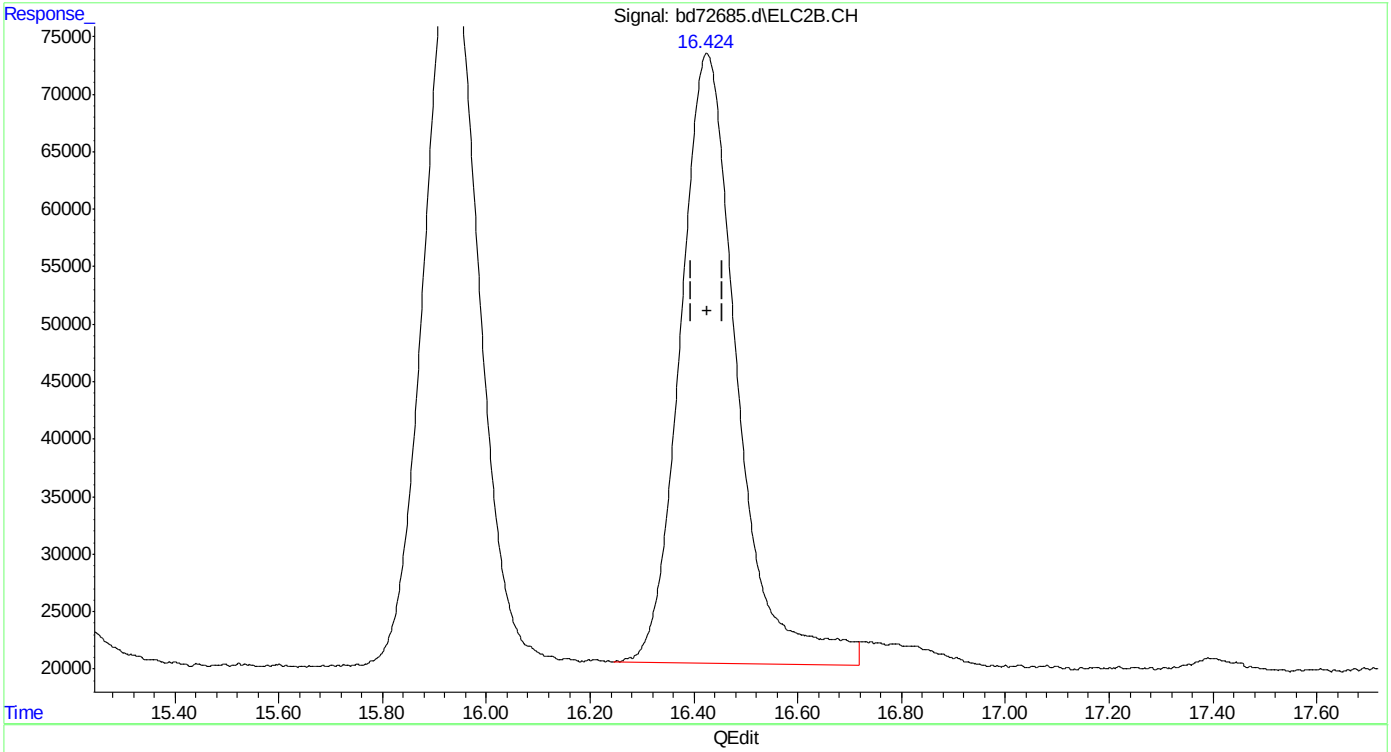
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:39 2016 Page: 1

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

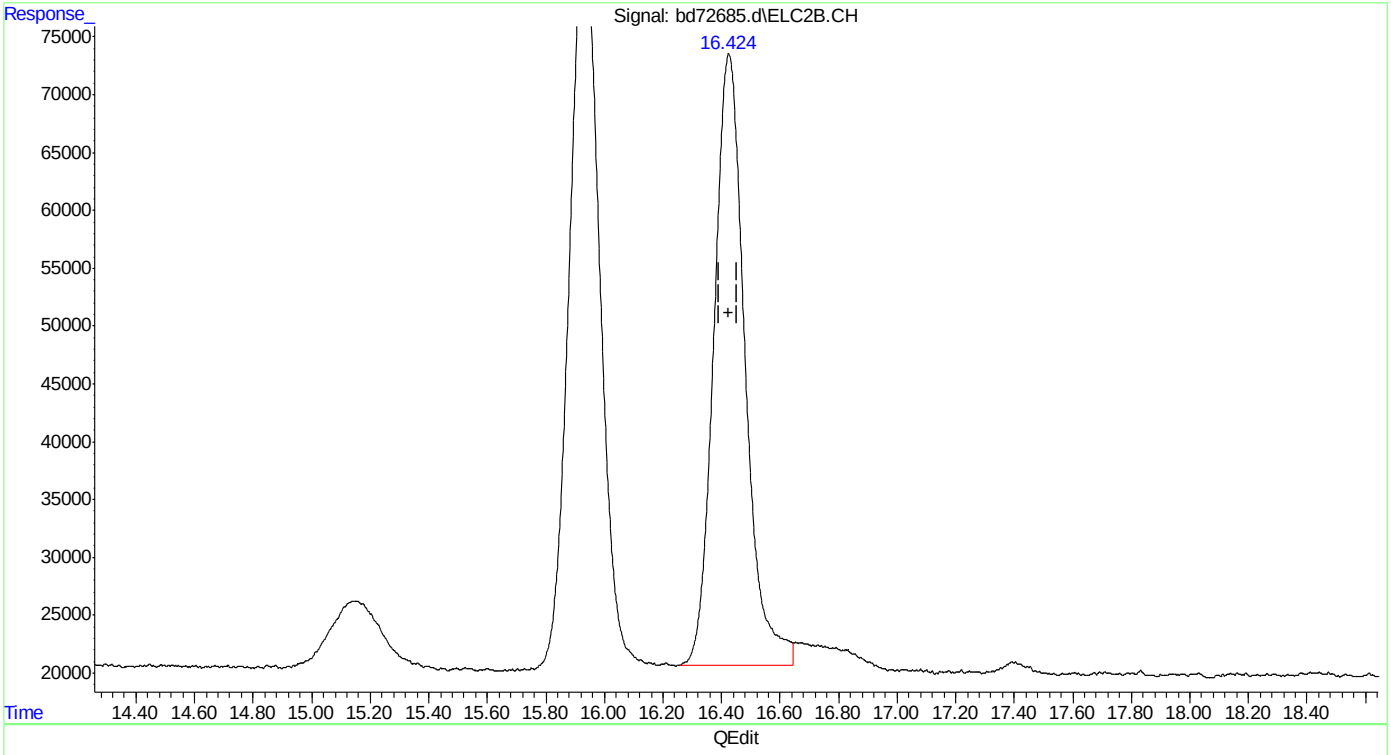
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:43 2016

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 :



(25) fluorobenzene #2 (s)
16.424min 12.680 ppb m
response 3901231

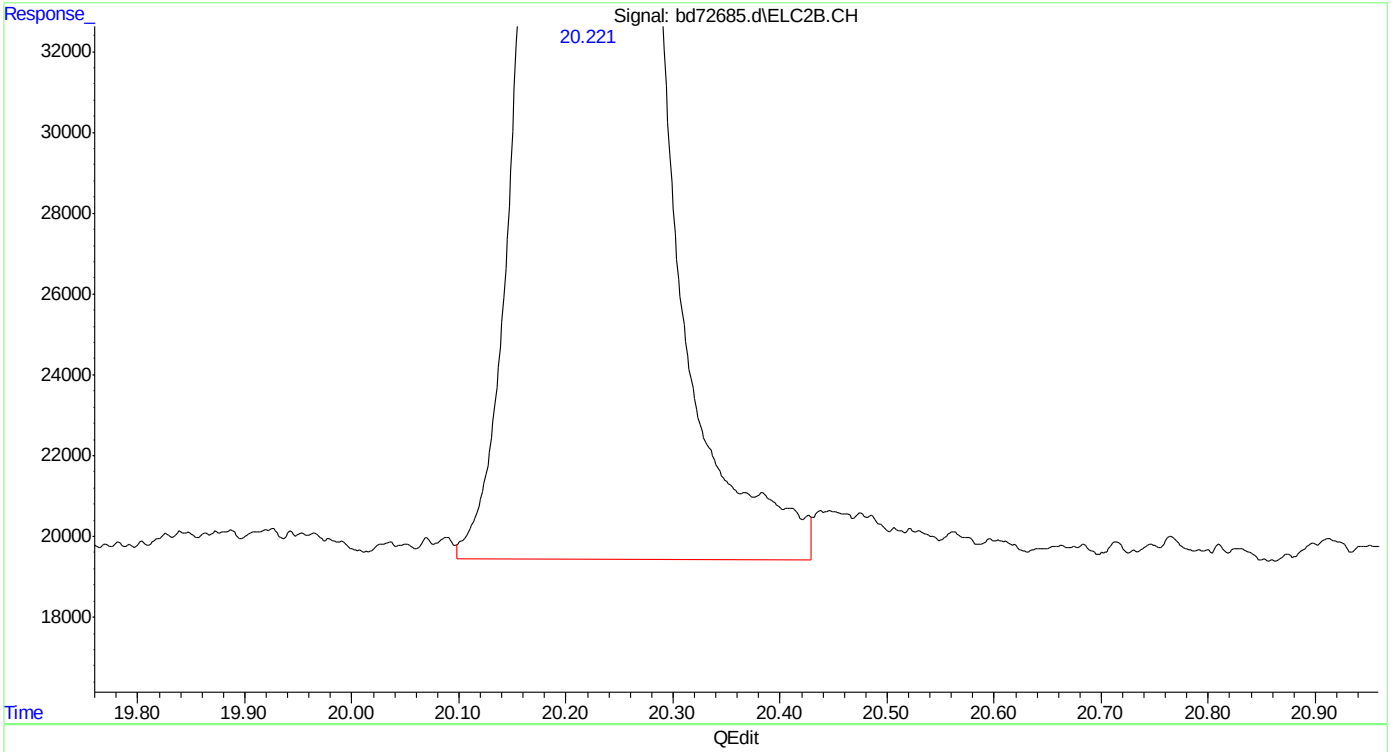
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:50 2016

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 :



(26) toluene #2
20.221min 9.622 ppb
response 4341841

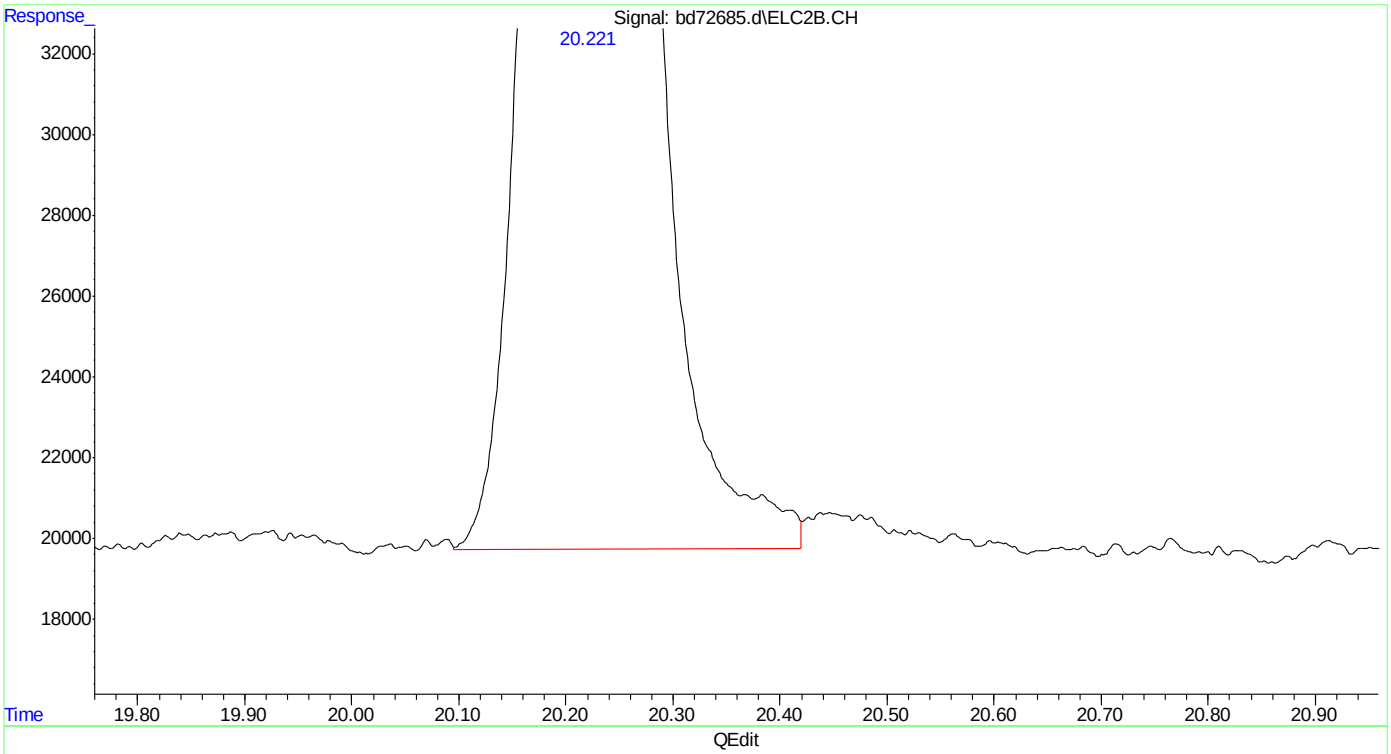
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:26:55 2016

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 :



(26) toluene #2
20.221min 9.485 ppb m
response 4279870

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:01 2016

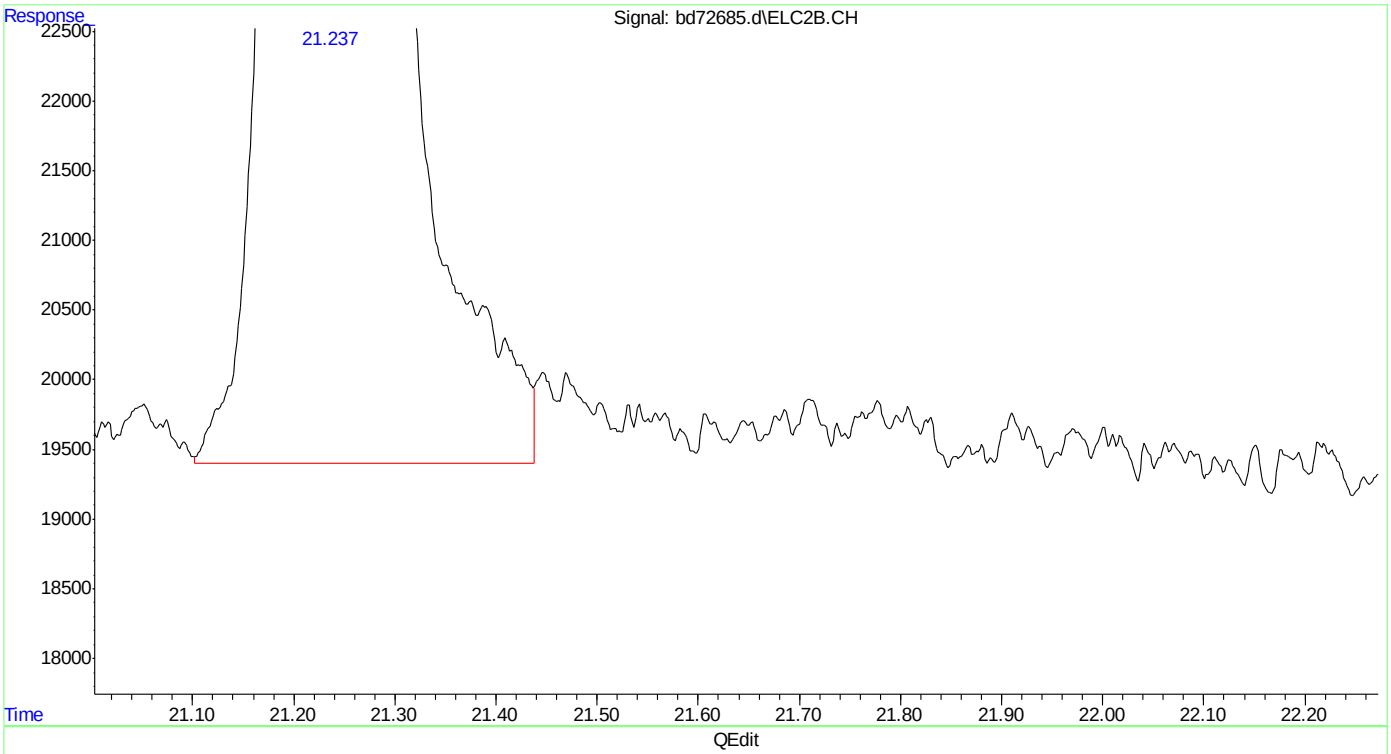
SGS ACCUTEST MC45580

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

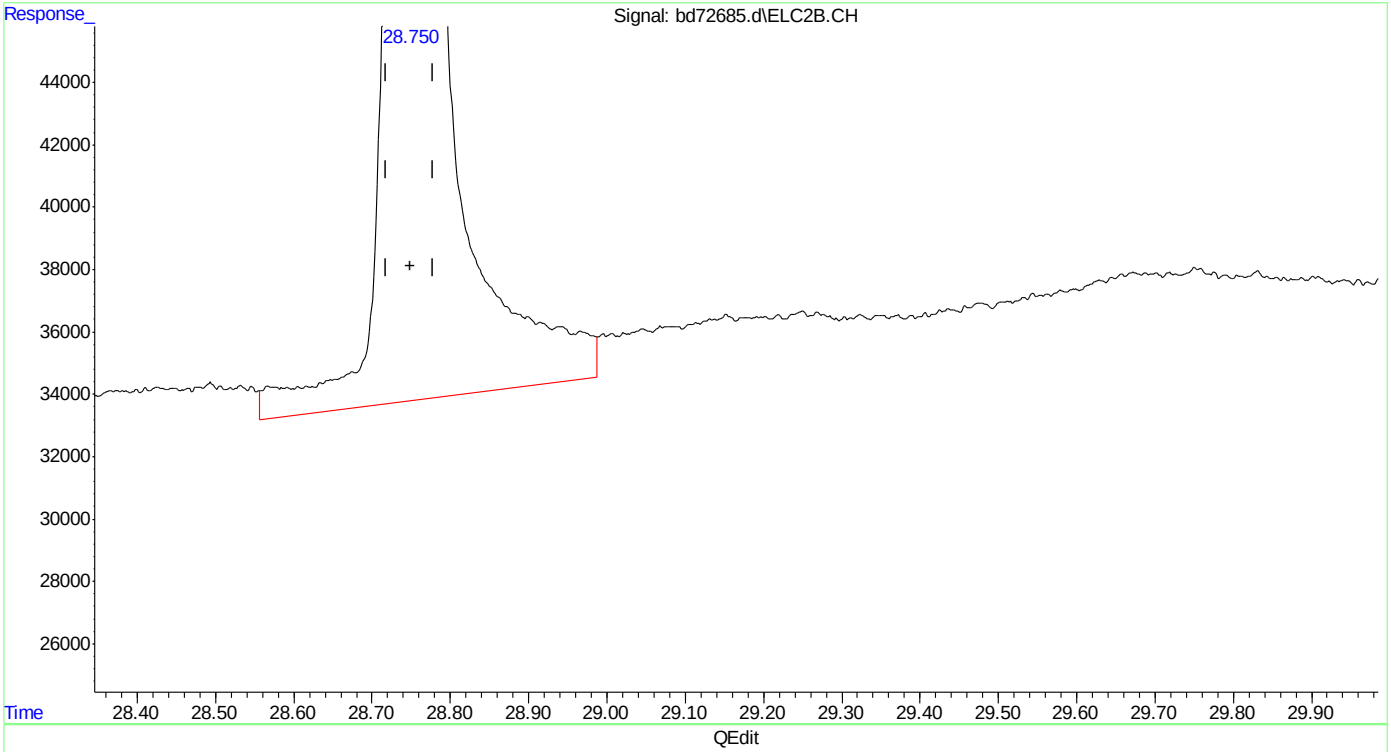
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:06 2016 Page: 1

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 :



(33) naphthalene #2
28.751min 8.157 ppb
response 3113386

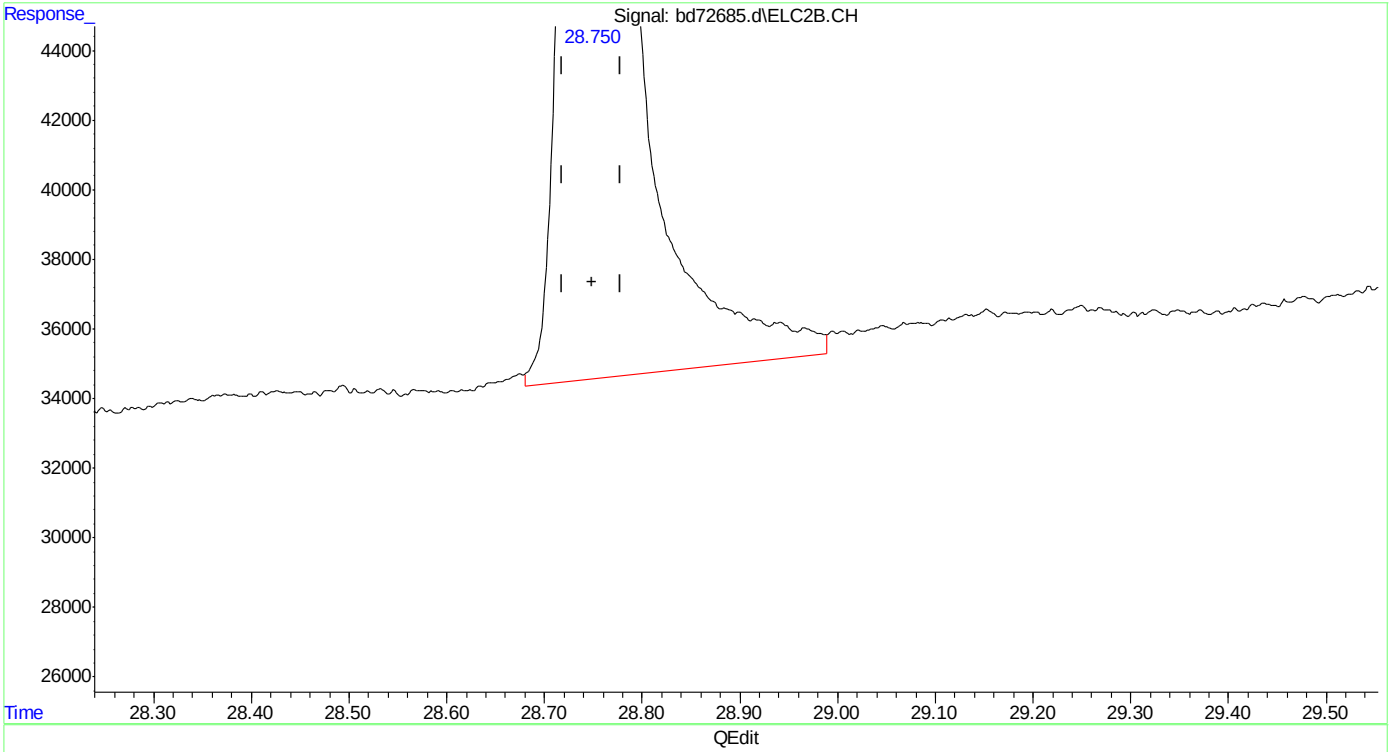
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:18 2016 Page: 1

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 :



(33) naphthalene #2
28.750min 7.611 ppb m
response 2905214

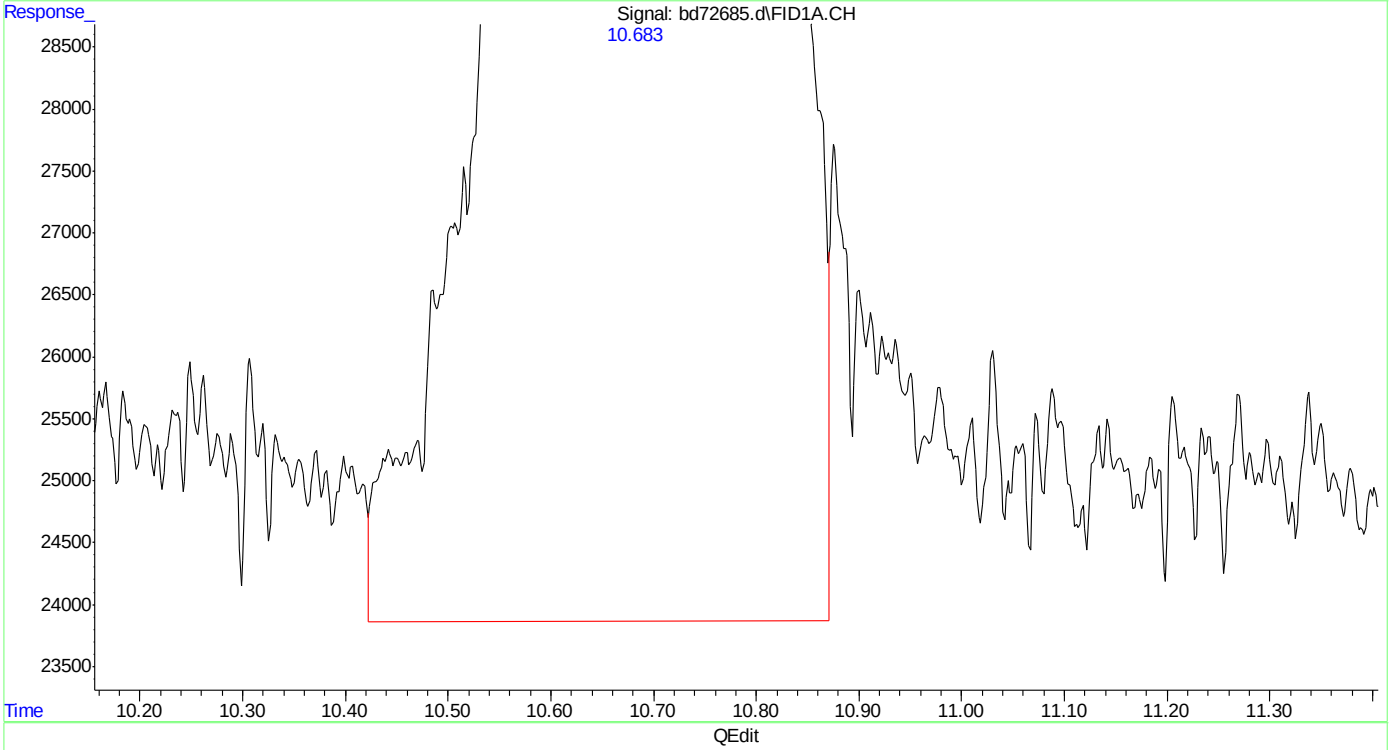
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:27:31 2016 Page: 1

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

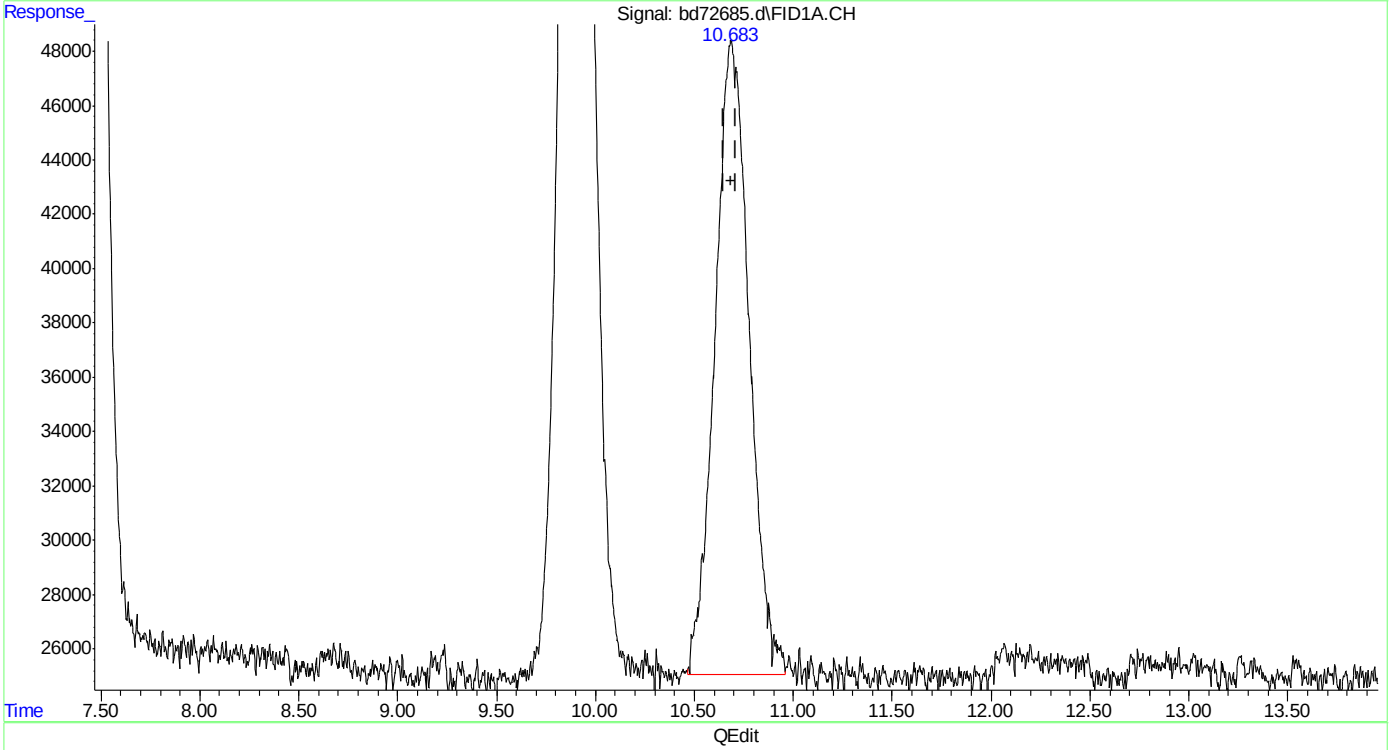
SGS ACCUTEST MC45580

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

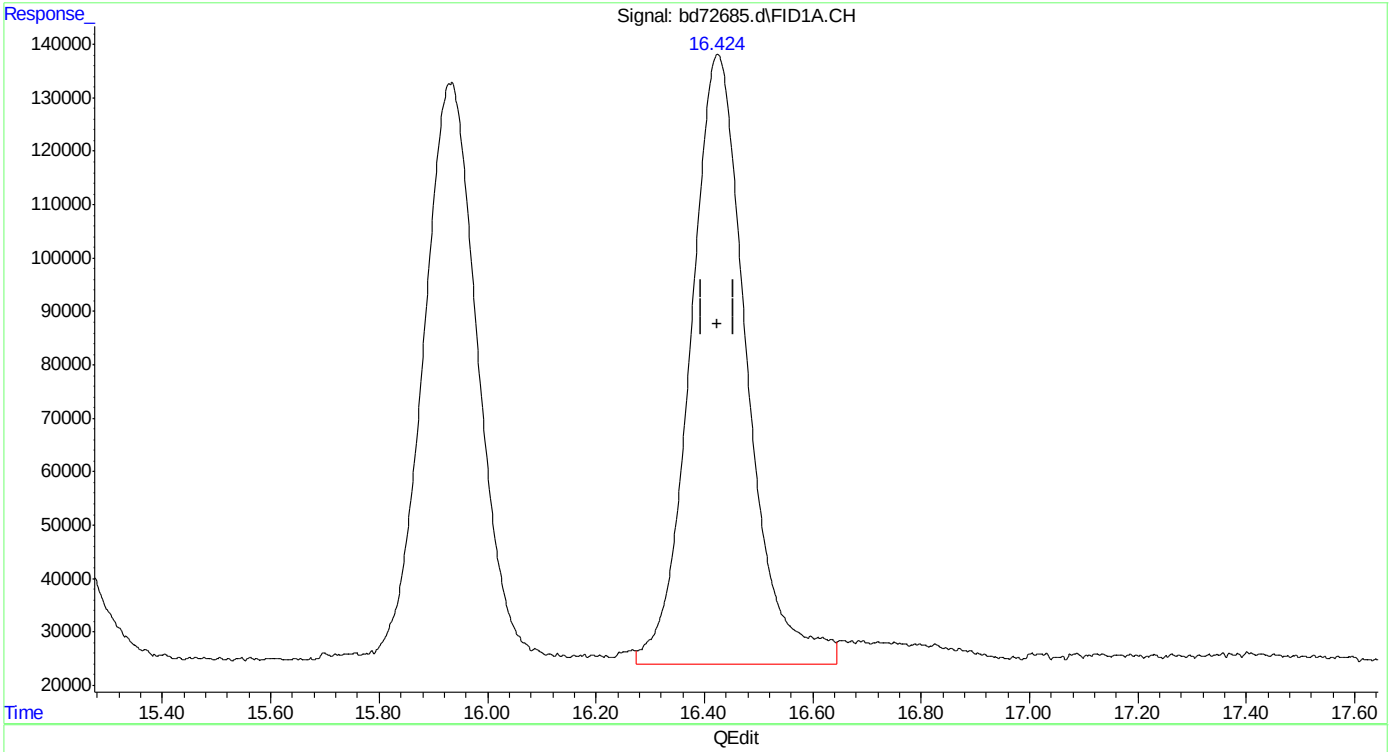
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:29:57 2016

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

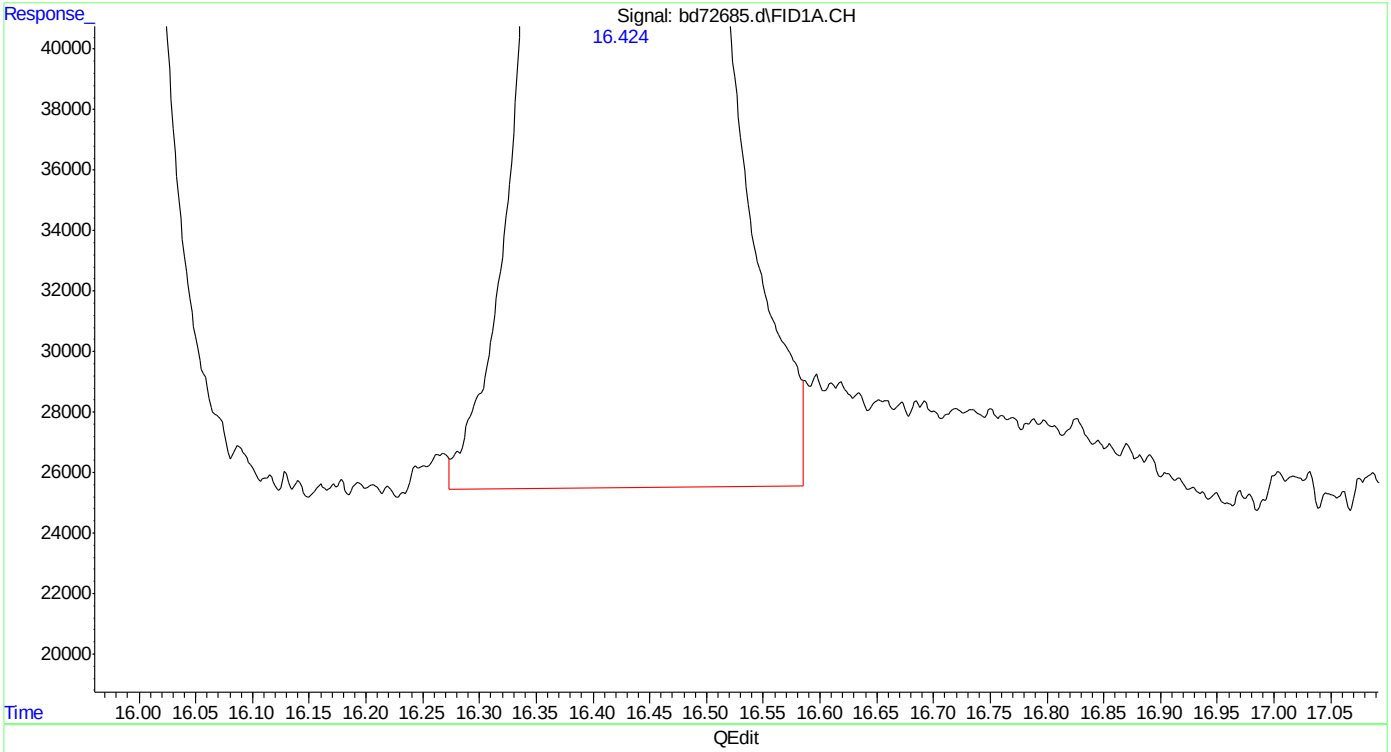
SGS ACCUTEST MC45580

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

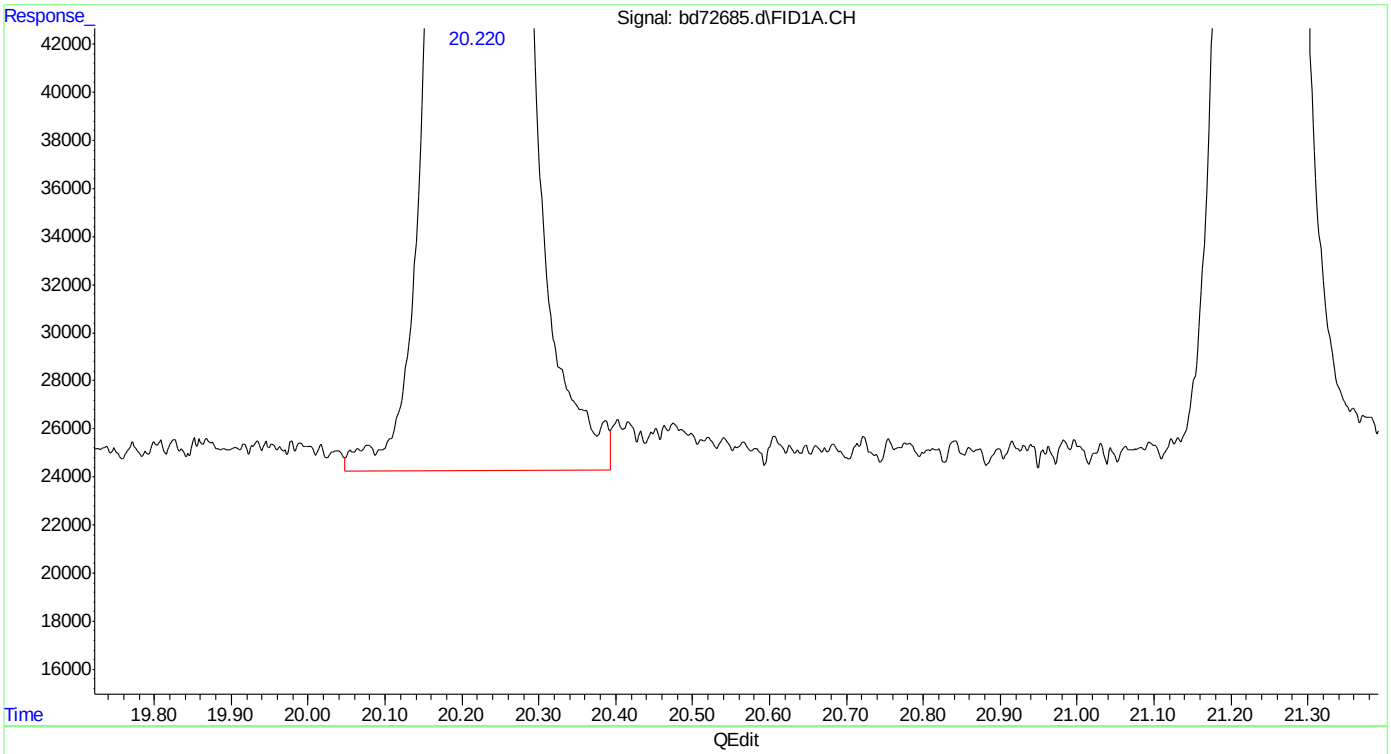
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:15 2016 Page: 1

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

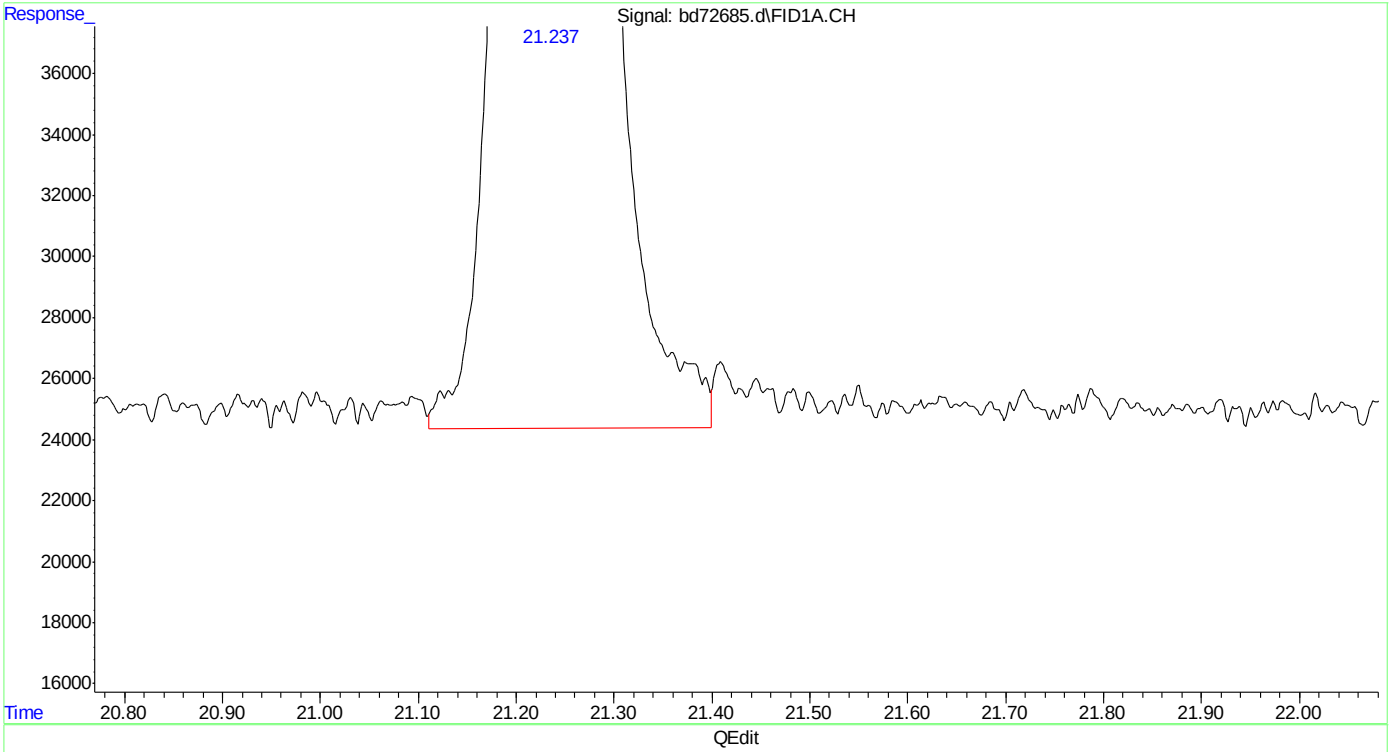
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:23 2016 Page: 1

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

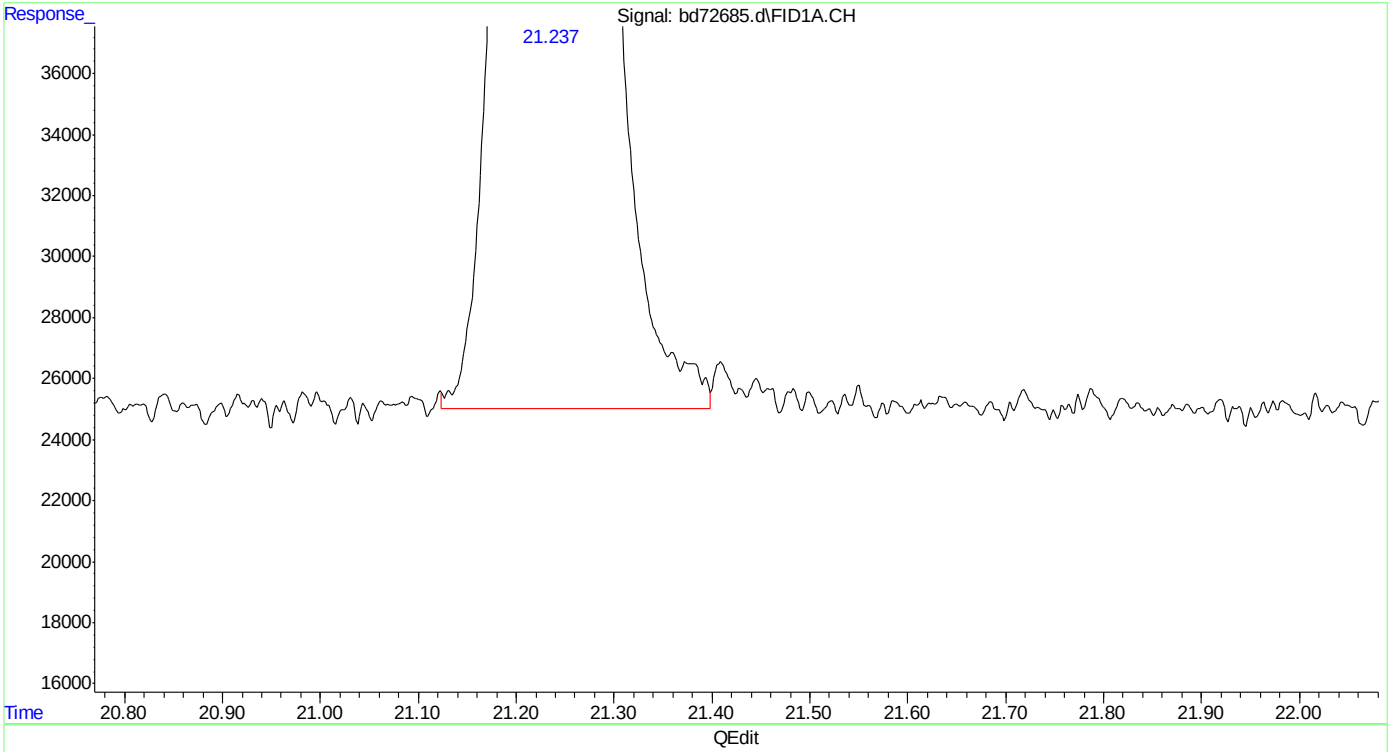
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:45 2016 Page: 1

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)
21.237min 12.597 ppb m
response 5886759

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:30:51 2016 Page: 1

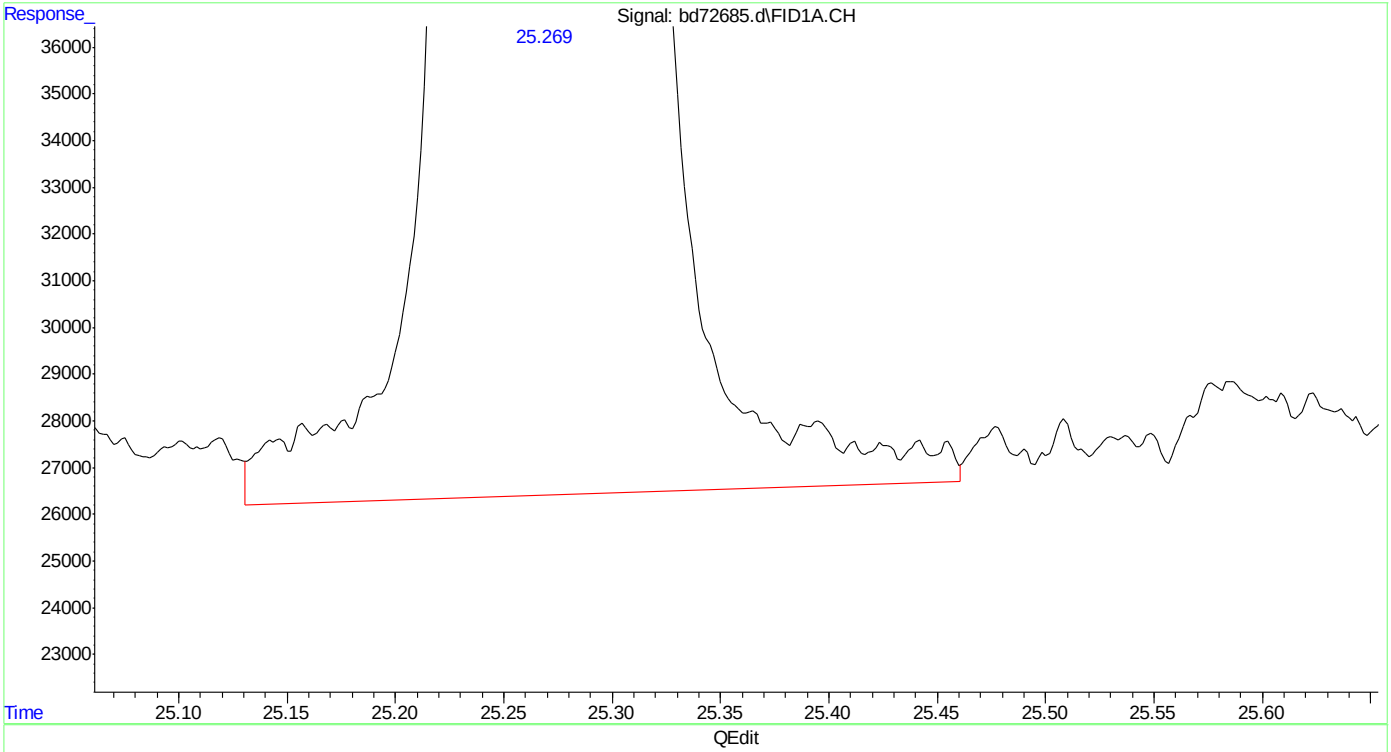
SGS ACCUTEST MC45580

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

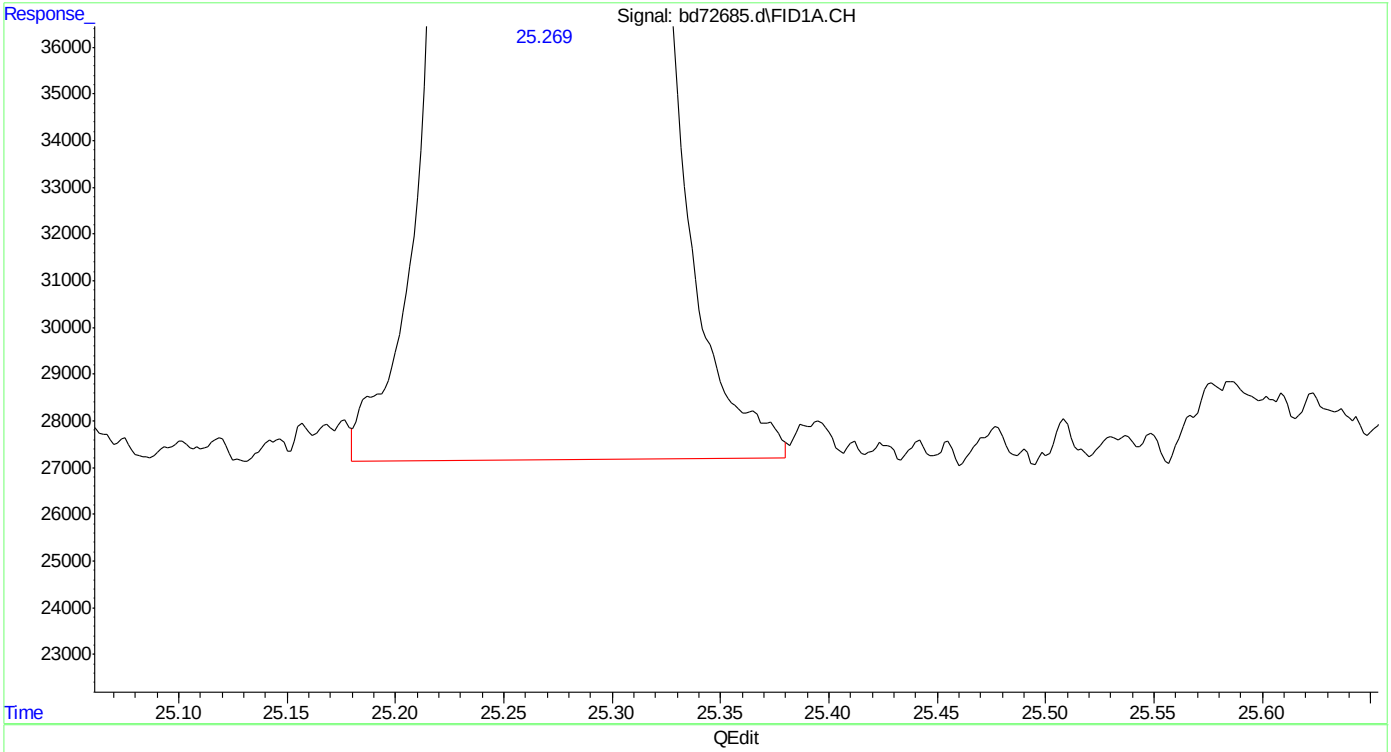
(+) = Expected Retention Time

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

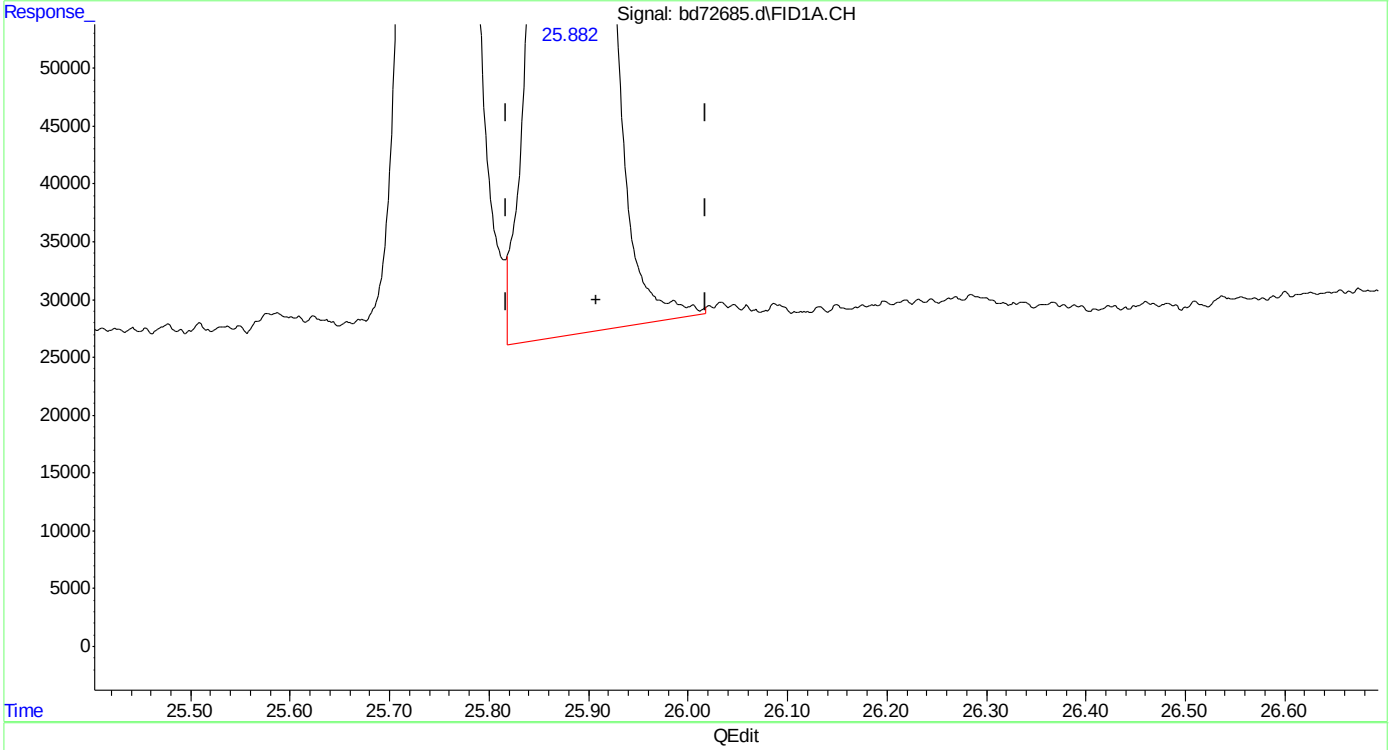
SGS ACCUTEST MC45580

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
bd160219master.M Fri Feb 19 11:31:35 2016

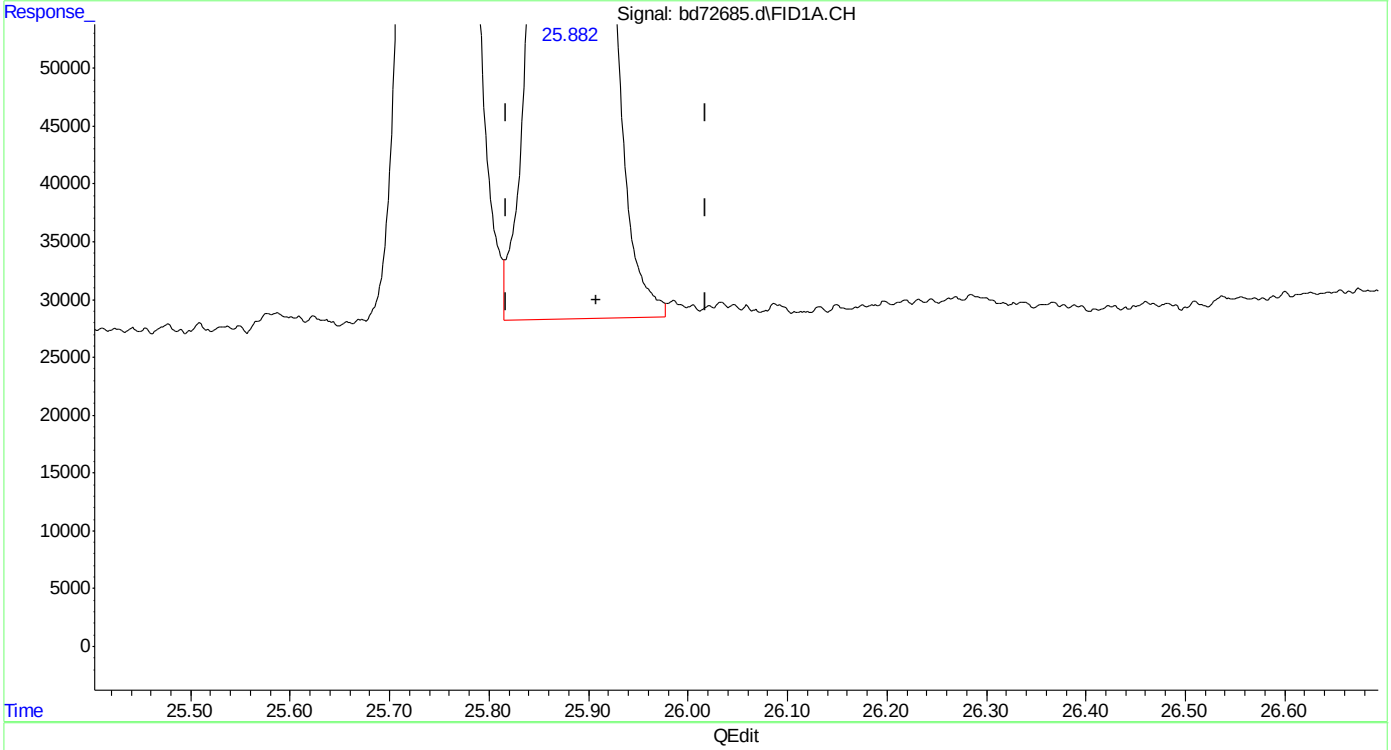
SGS ACCUTEST MC45580

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

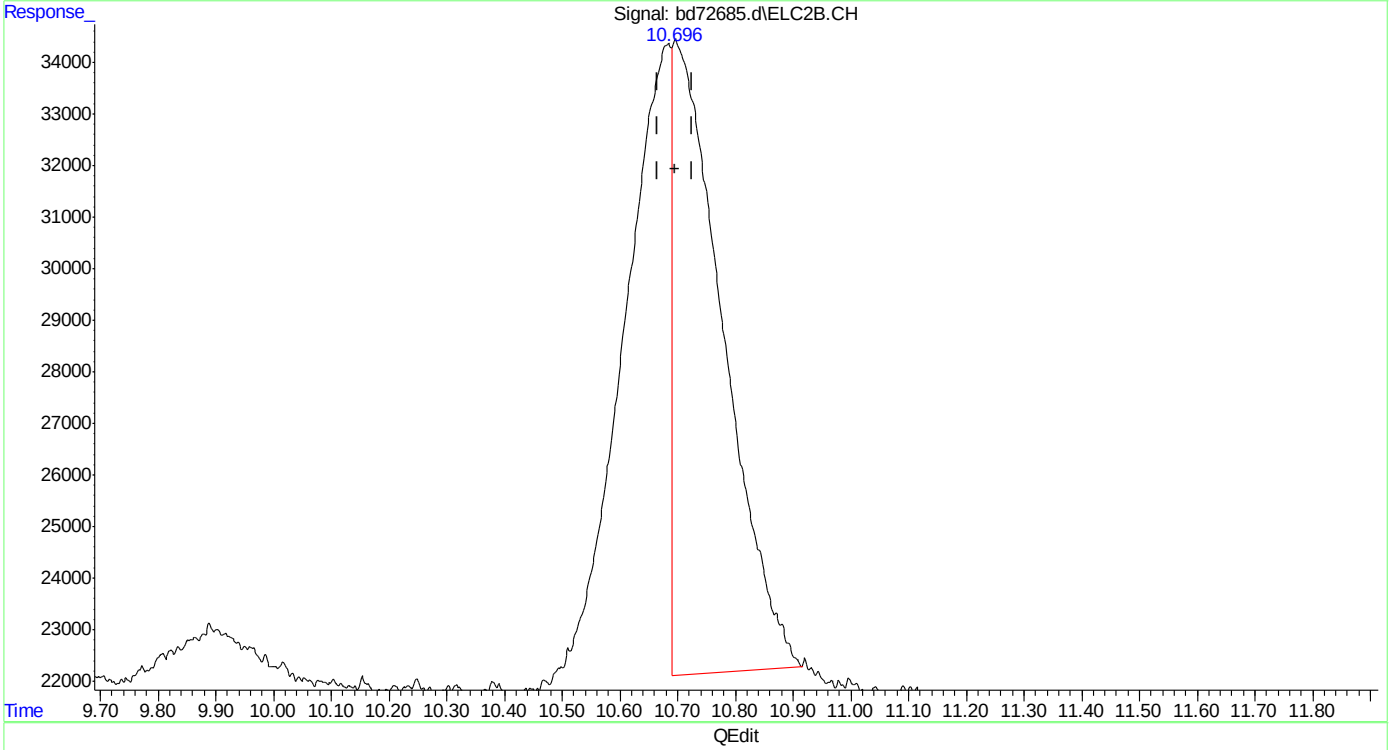
(+) = Expected Retention Time

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
bd160219master.M Fri Feb 19 11:31:47 2016

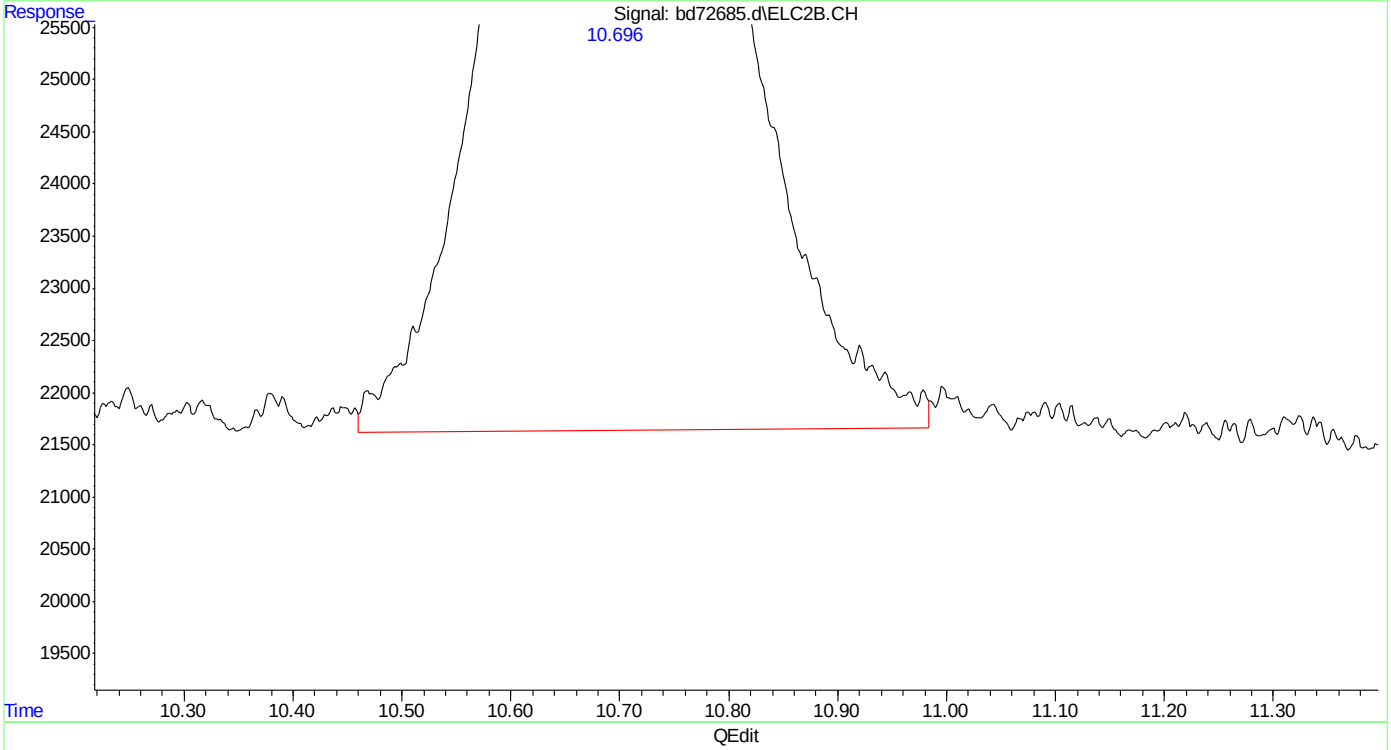
SGS ACCUTEST MC45580

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

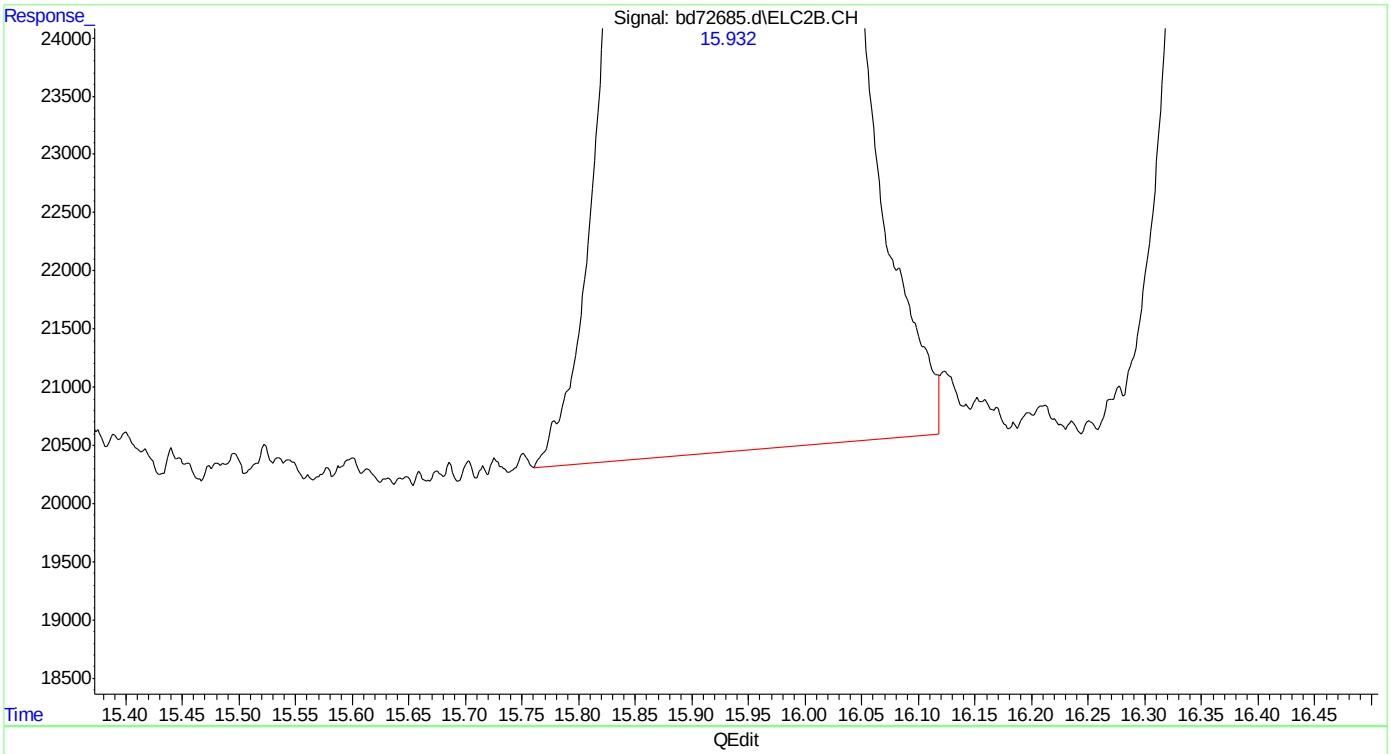
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:01 2016 Page: 1

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

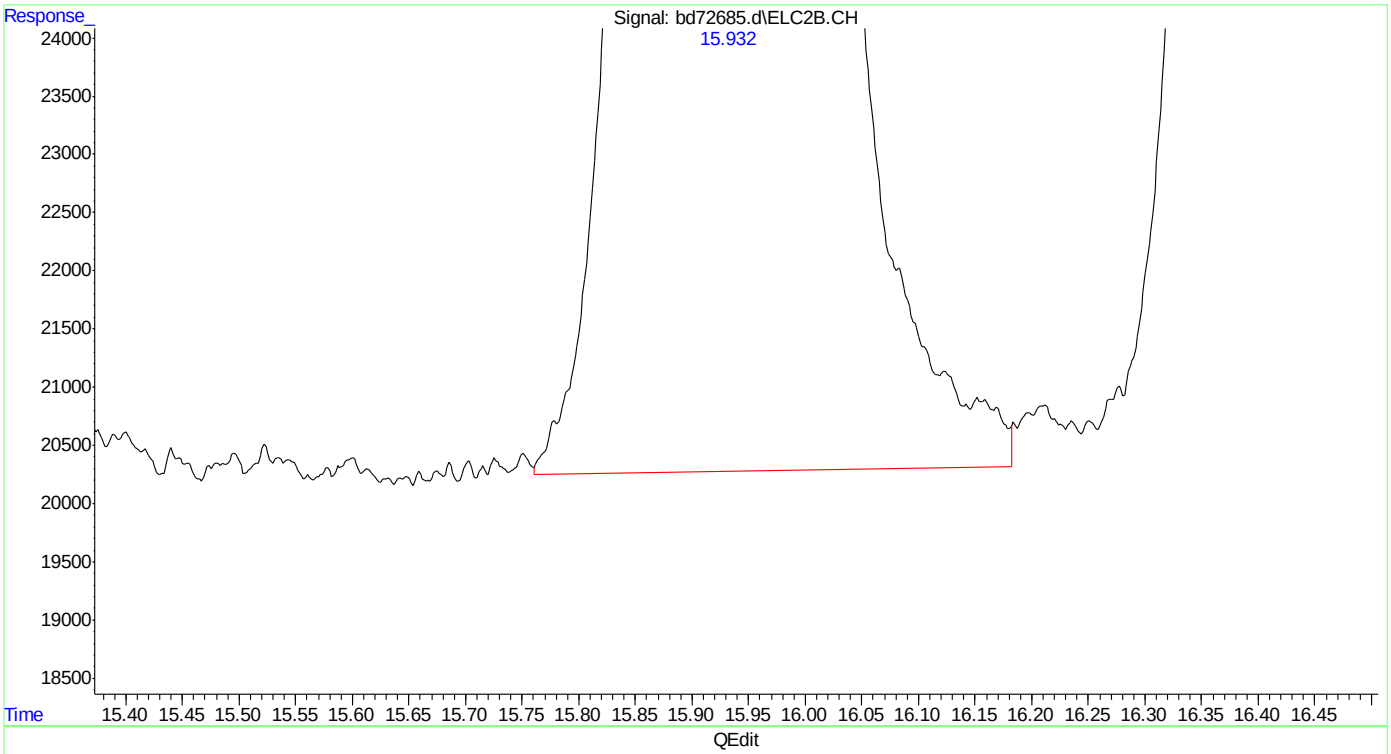
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:06 2016 Page: 1

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 9.782 ppb m

response 4628504

(+) = Expected Retention Time

bd160219master.M Fri Feb 19 11:32:12 2016

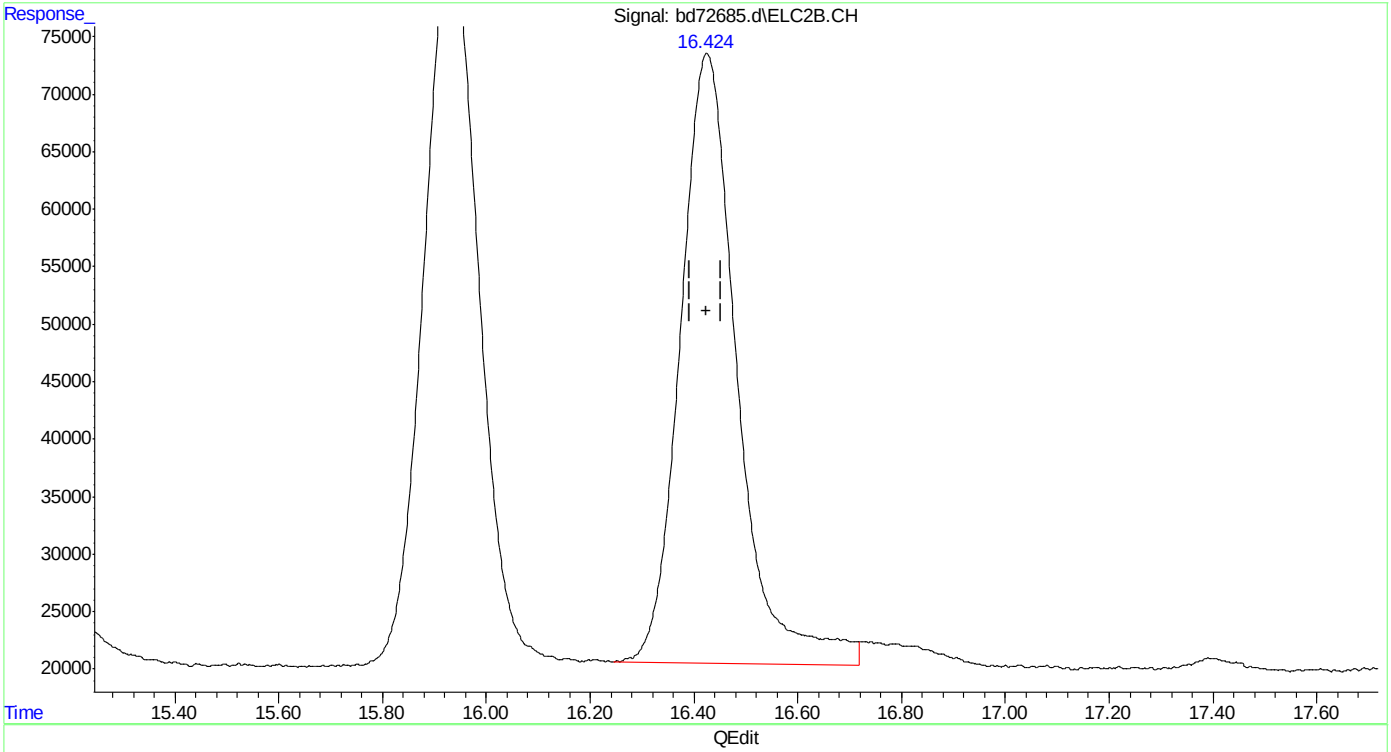
SGS ACCUTEST MC45580

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

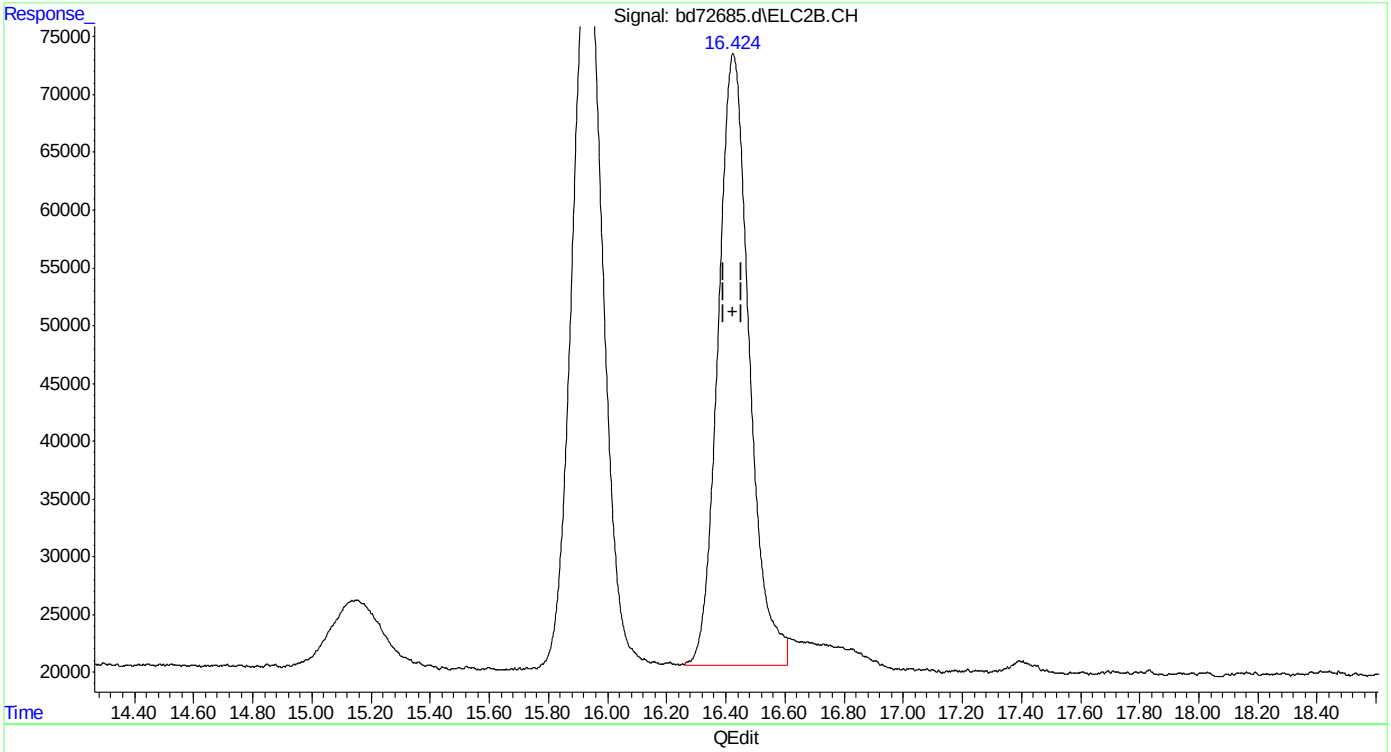
(+) = Expected Retention Time

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

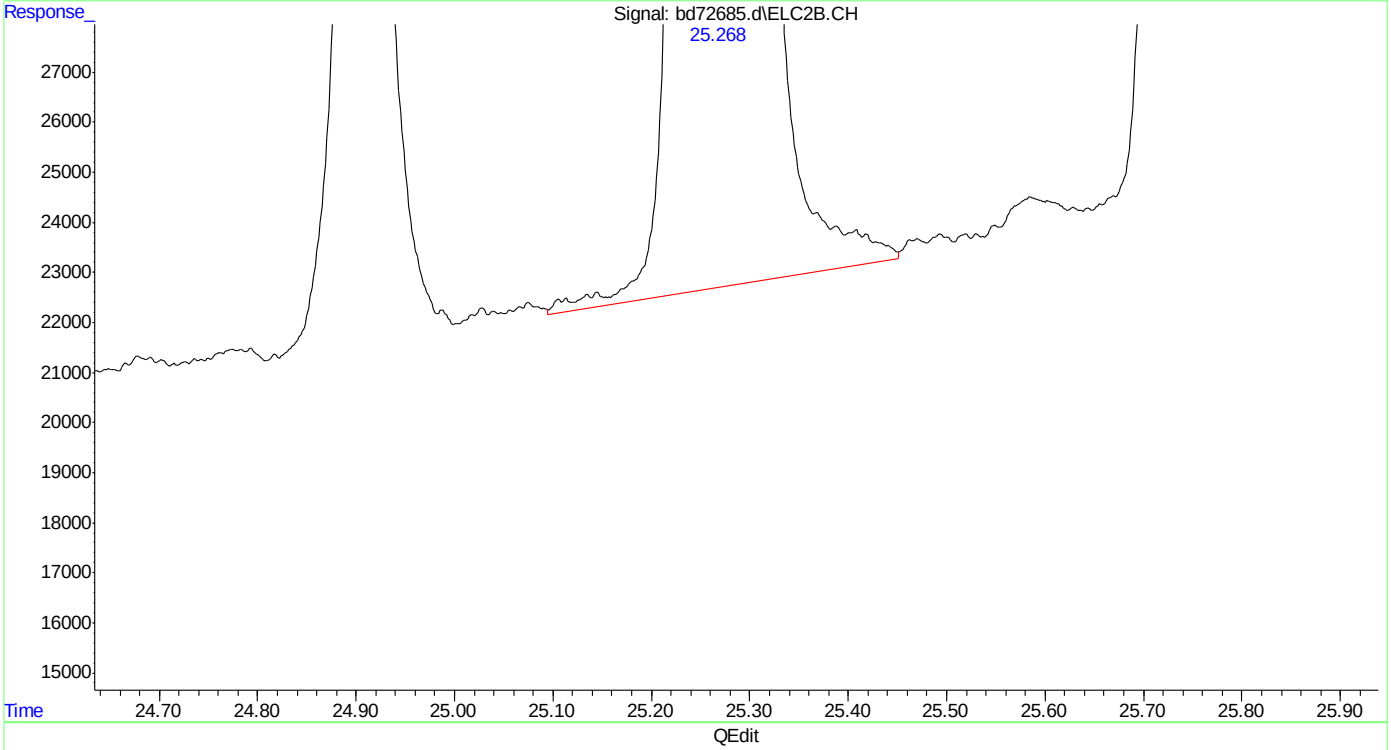
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:23 2016 Page: 1

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

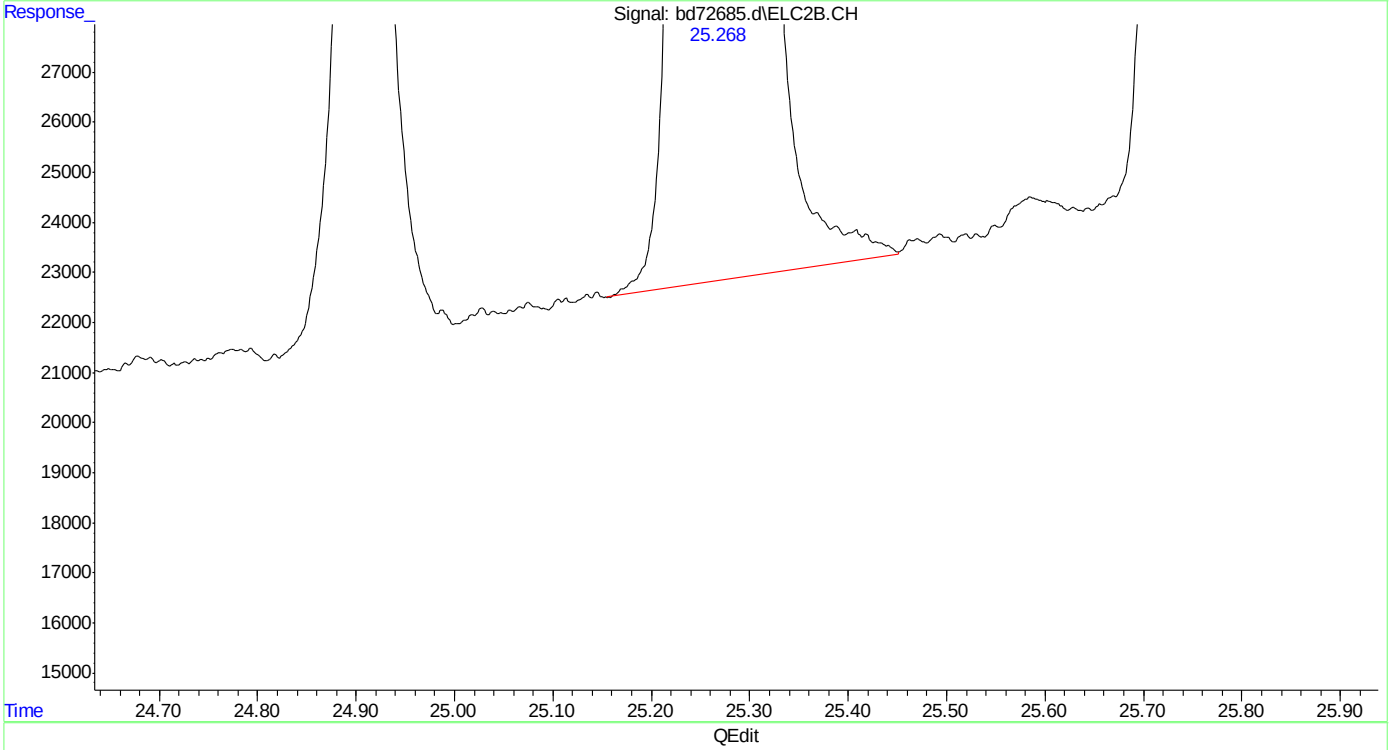
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:49 2016 Page: 1

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

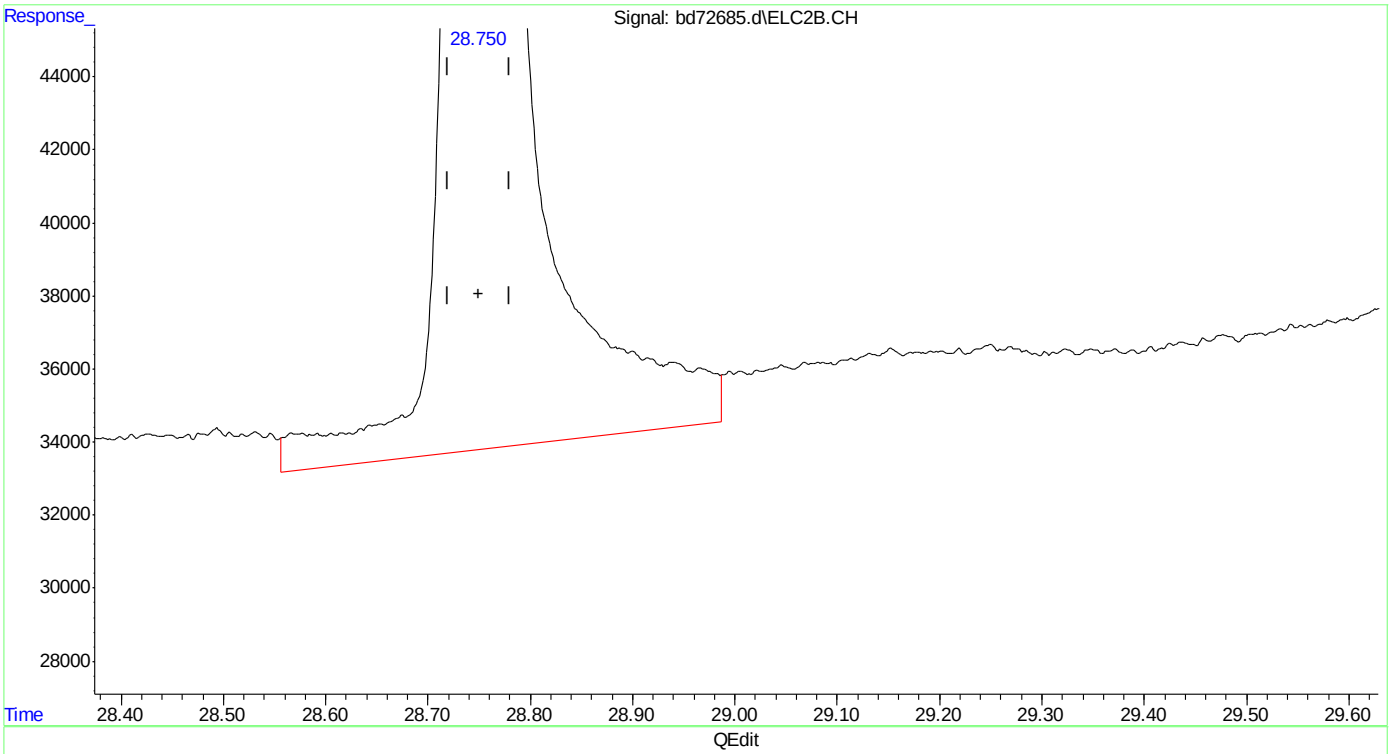
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:32:55 2016 Page: 1

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

bd160219master.M Fri Feb 19 11:33:21 2016

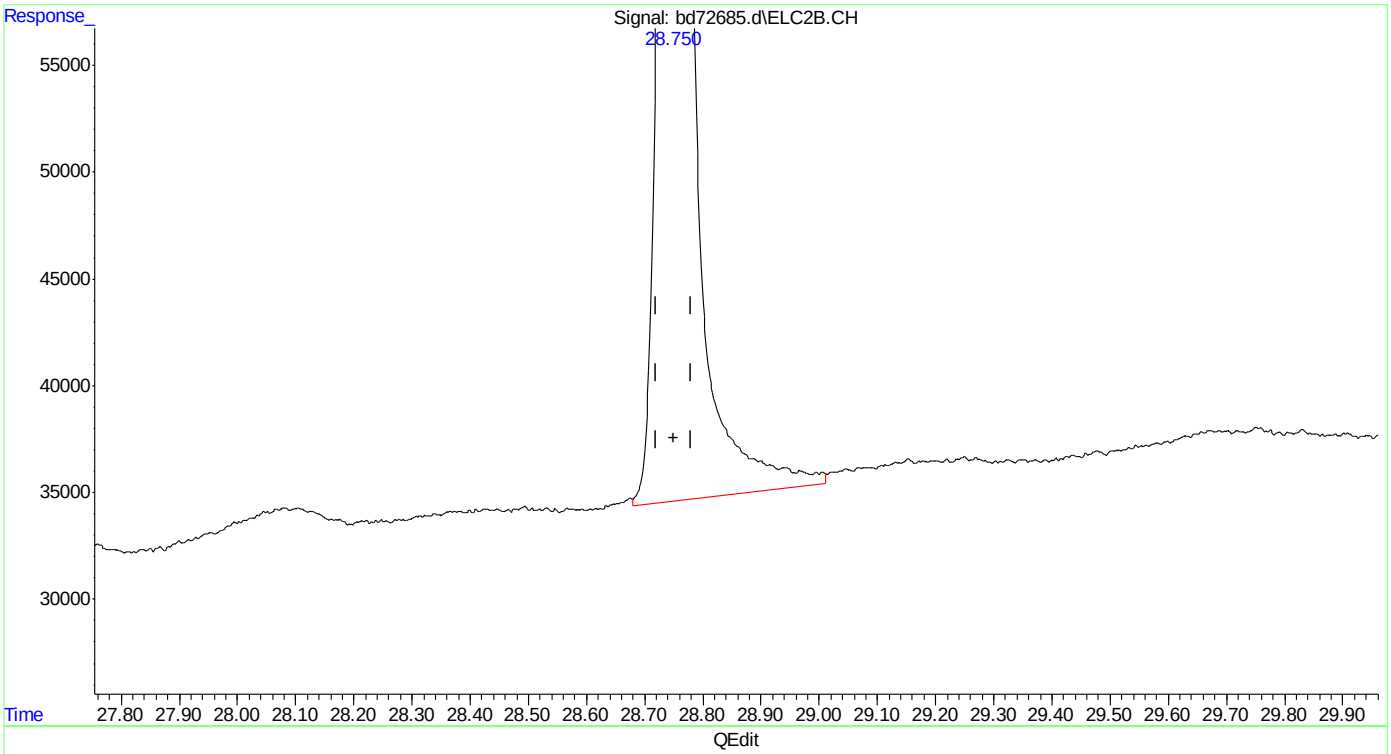
SGS ACCUTEST MC45580

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

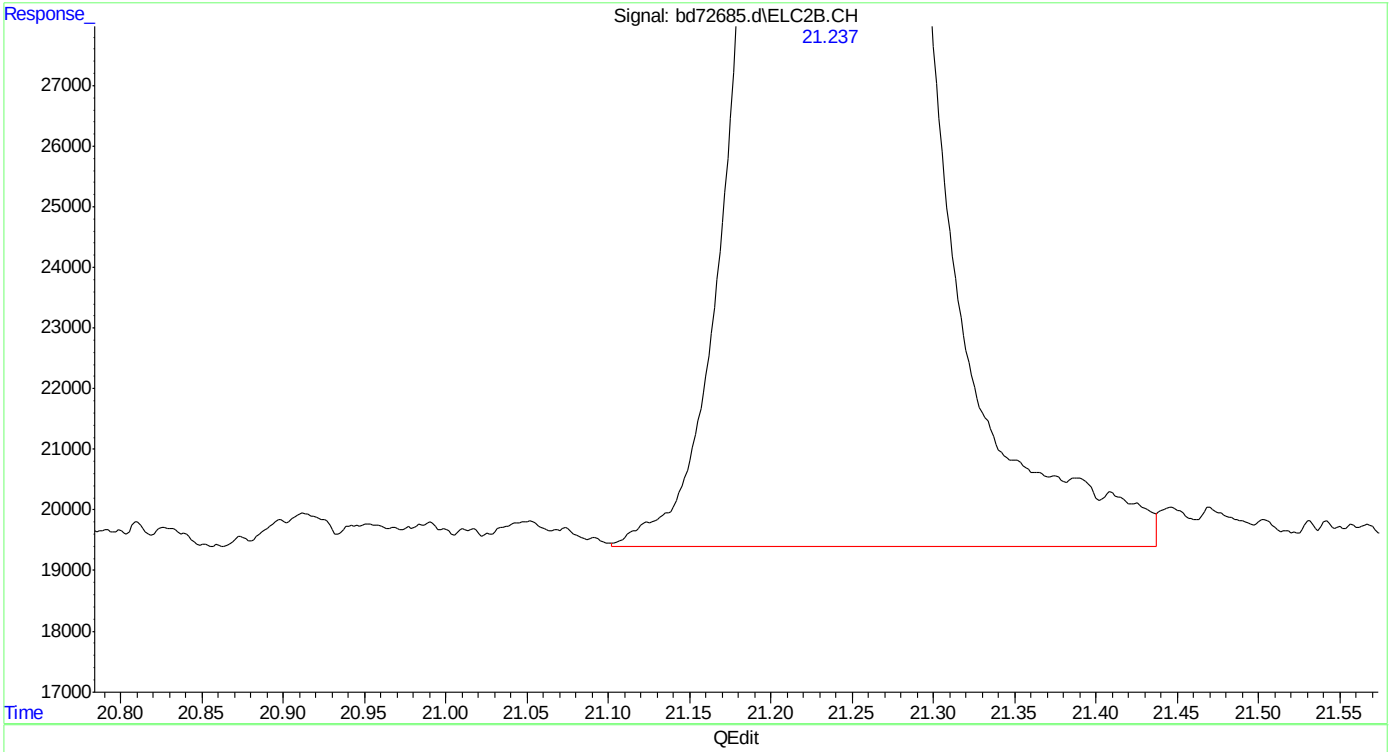
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:33:35 2016 Page: 1

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 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

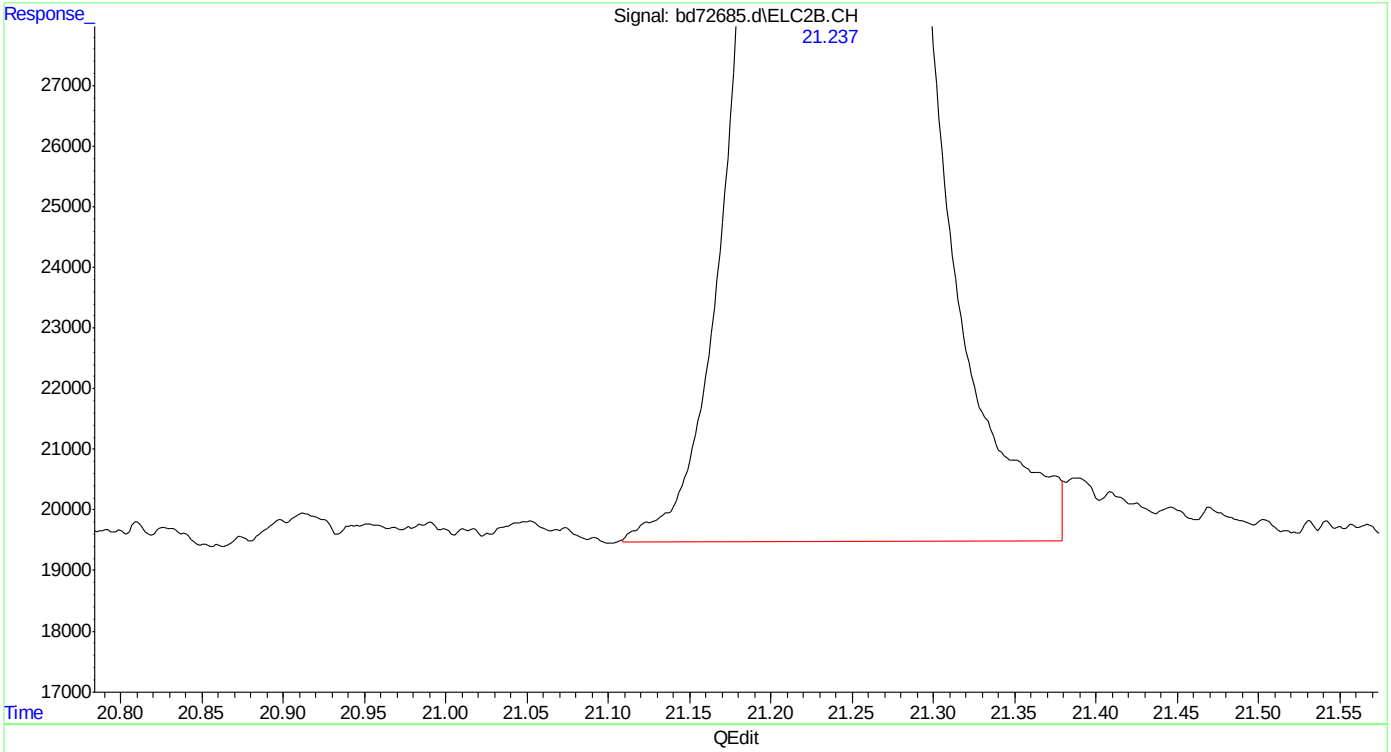
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:11 2016

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

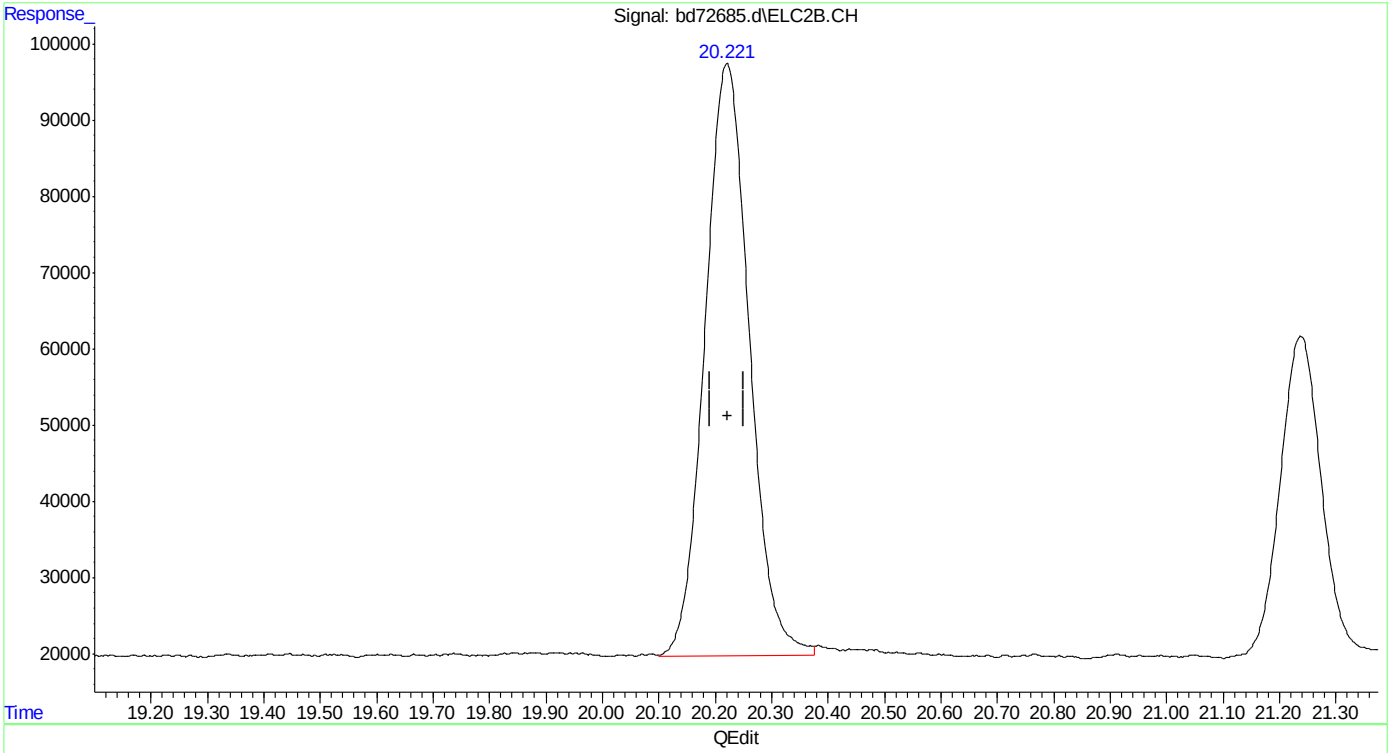
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:16 2016

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

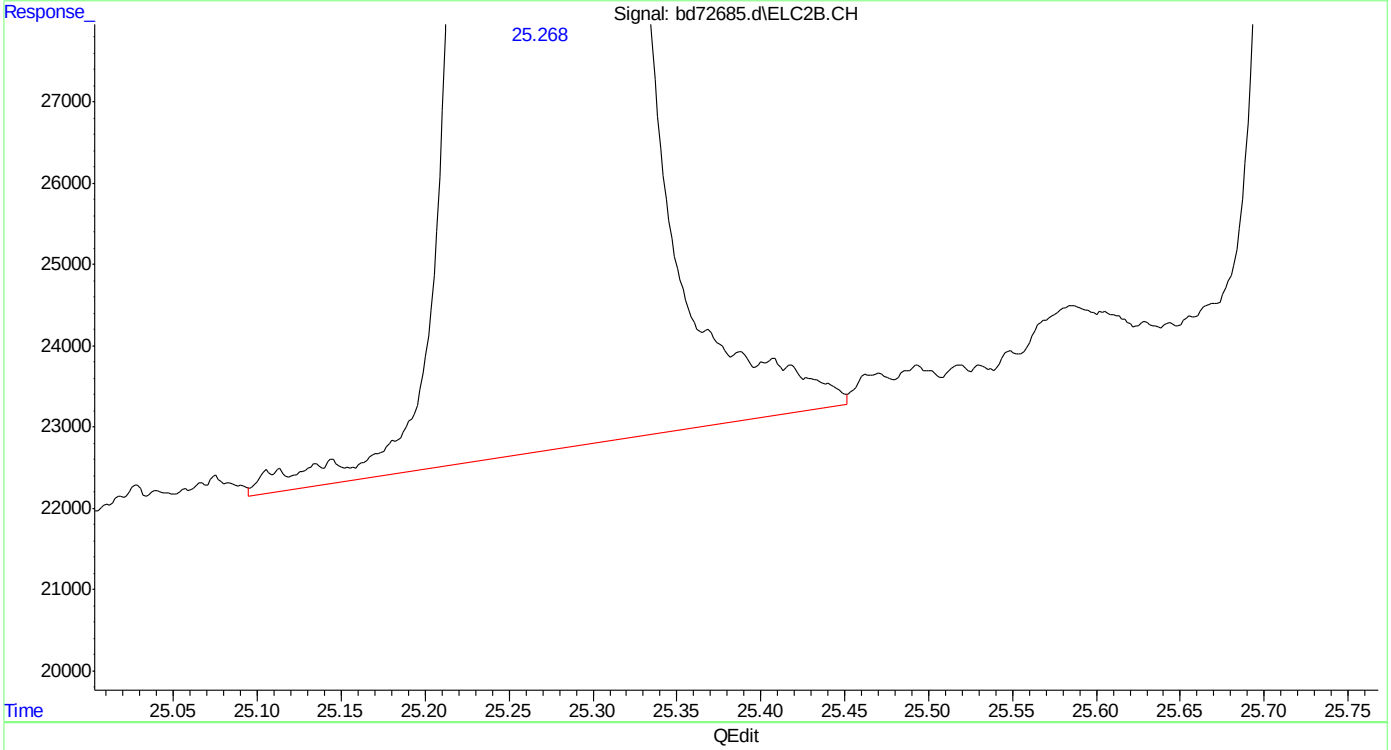
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:04:20 2016

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

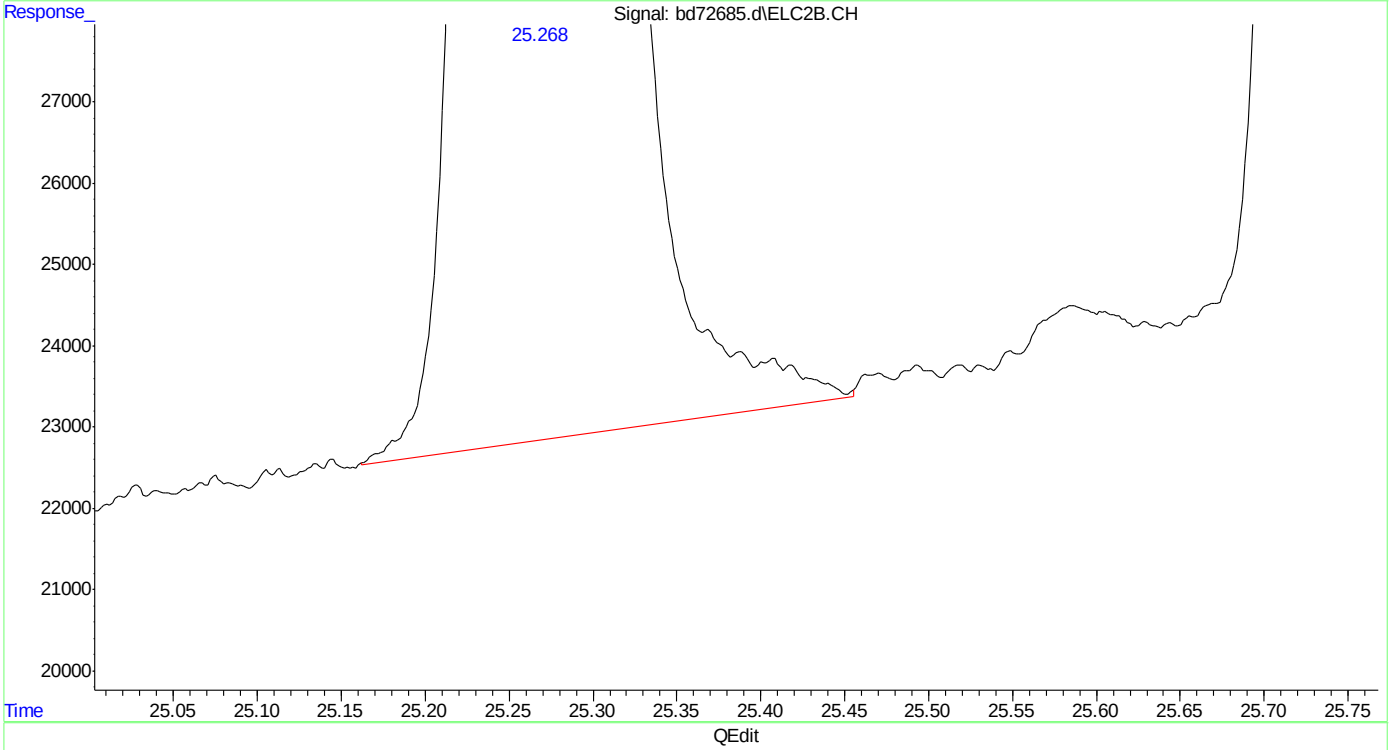
(+) = Expected Retention Time

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

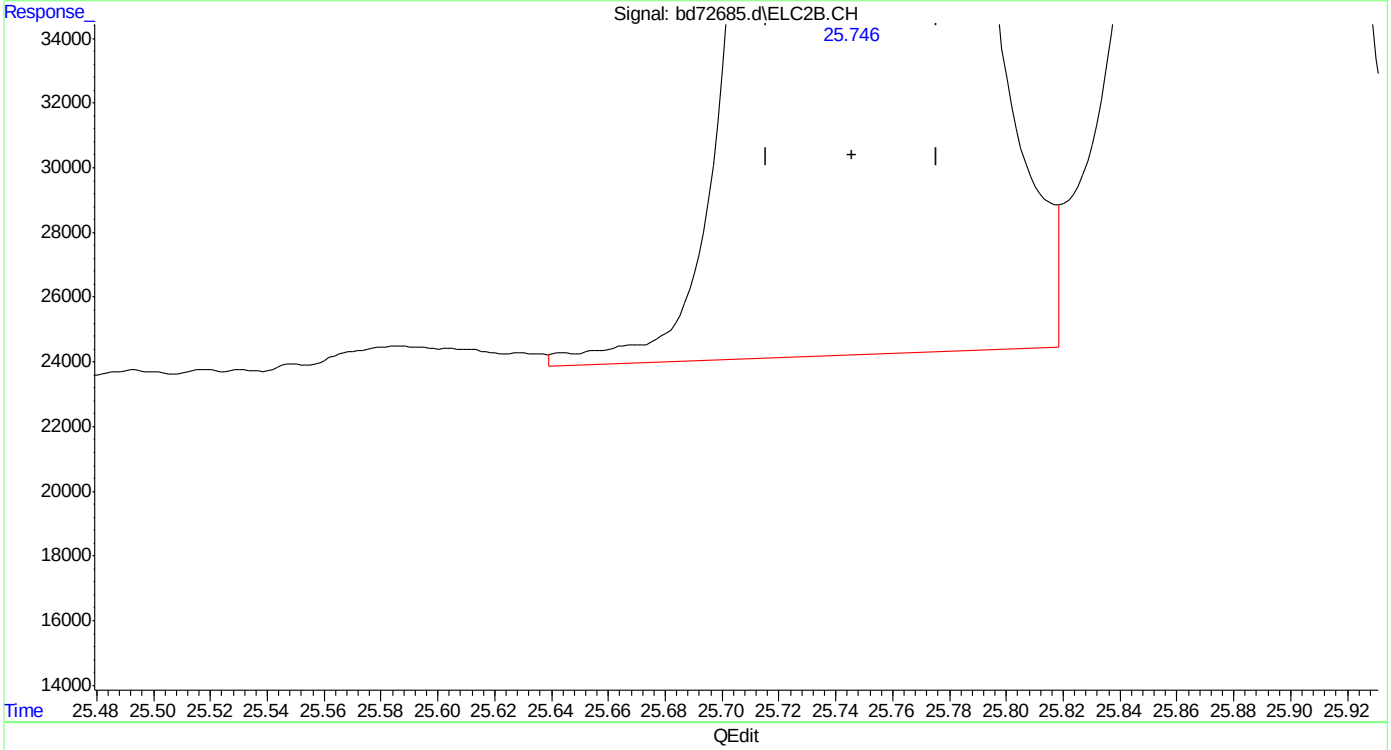
(+) = Expected Retention Time

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

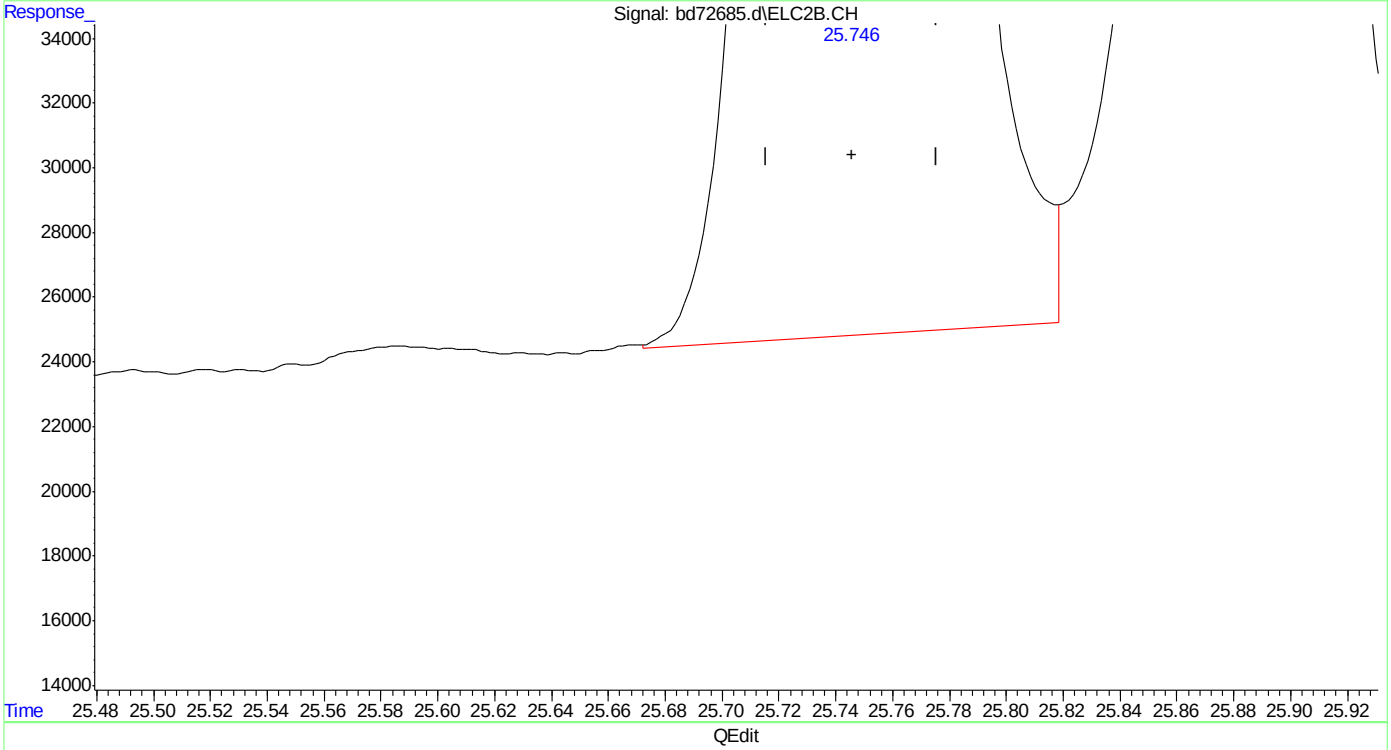
SGS ACCUTEST MC45580

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

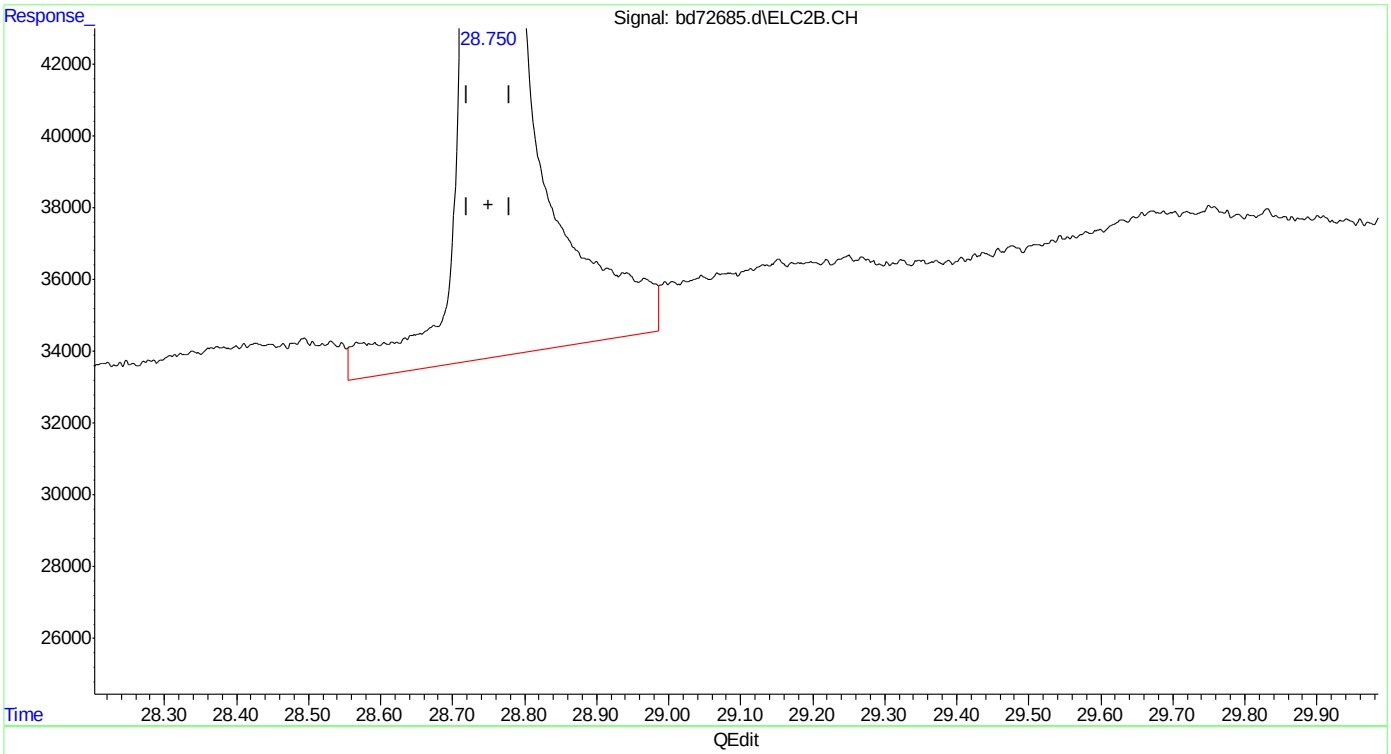
SGS ACCUTEST MC45580

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

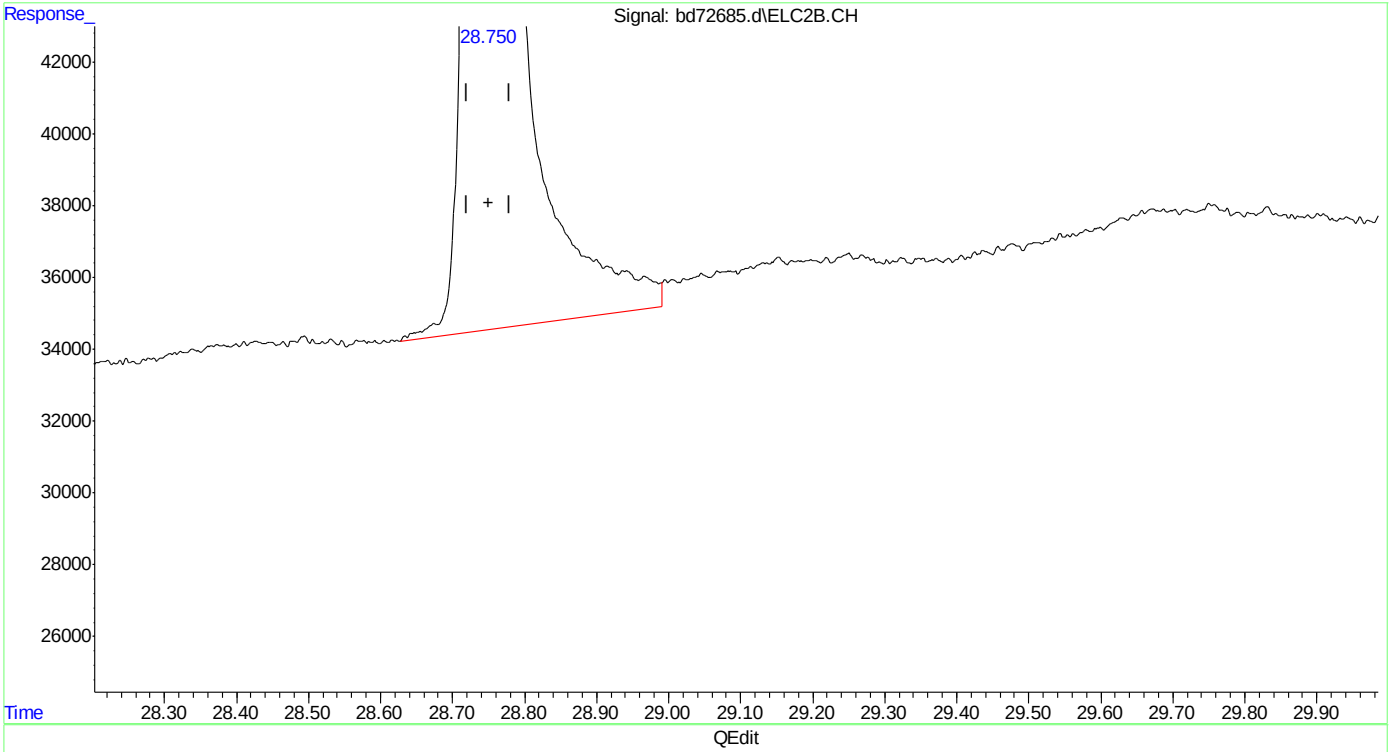
(+) = Expected Retention Time

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

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

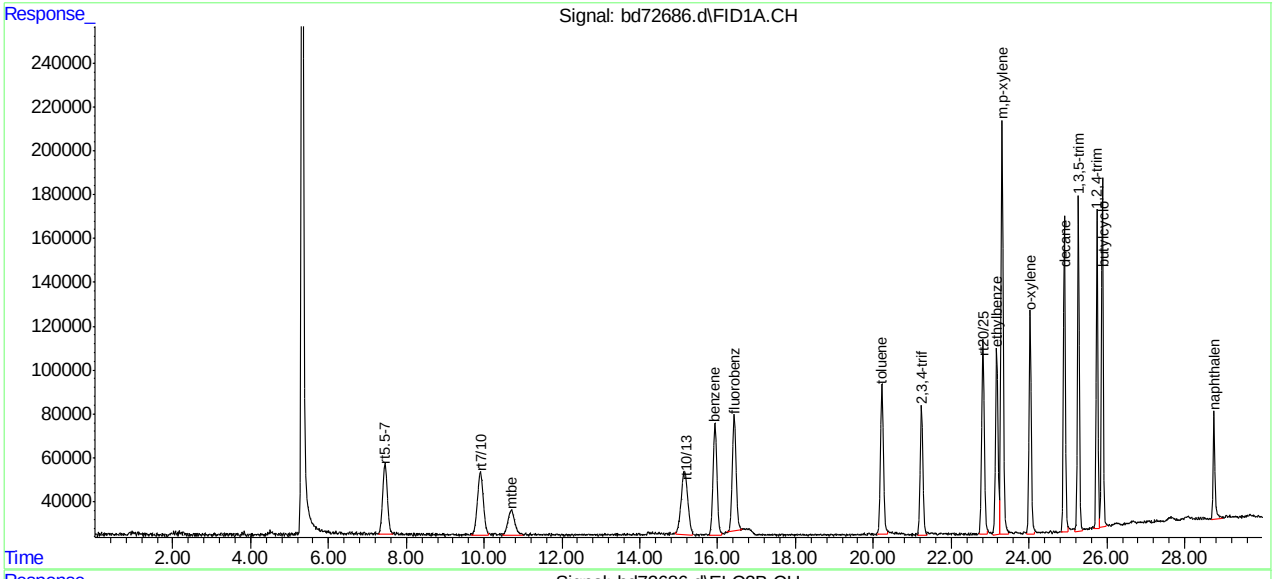
(f)=RT Delta > 1/2 Window (m)=manual int.

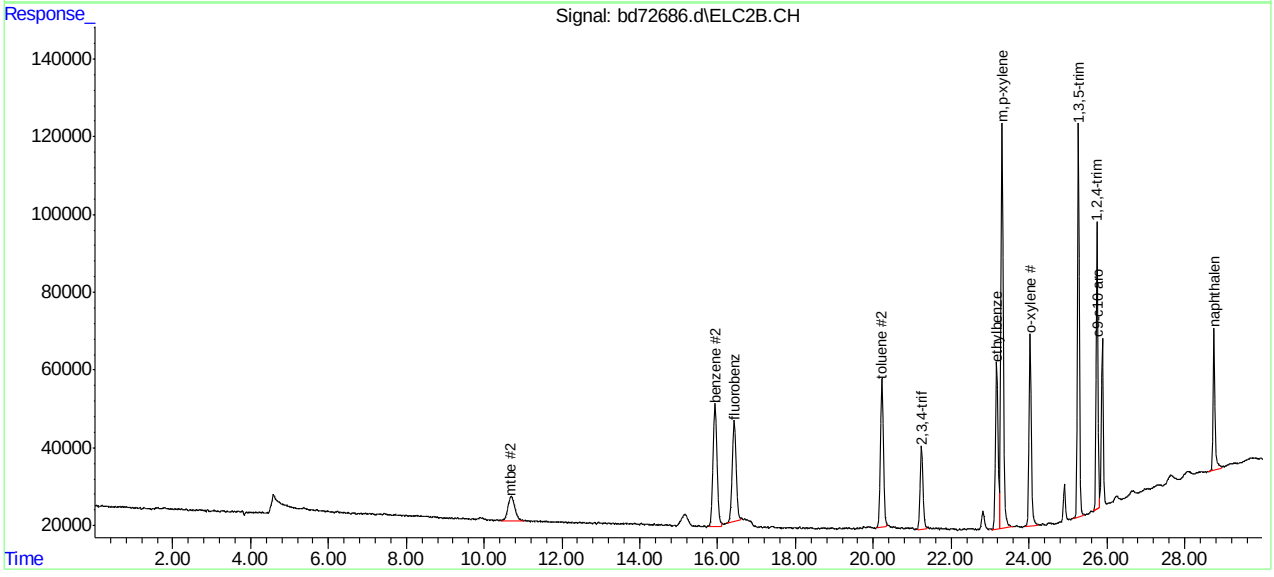
Quantitation Report (QT Reviewed)

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

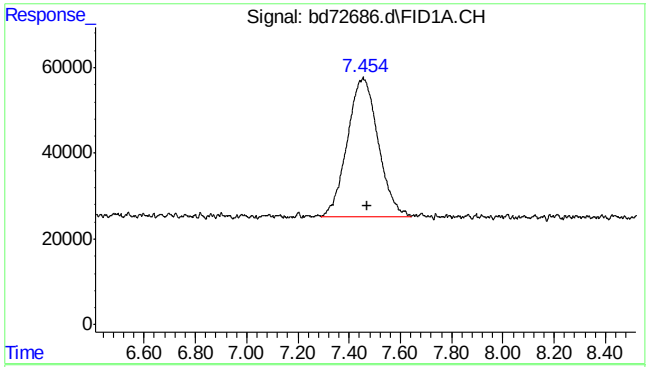
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Feb 19 12:10:27 2016
Quant Method : C:\msdchem\1\methods\bd160219master.M
Quant Title : vph - master
QLast Update : Fri Feb 19 12:05:31 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



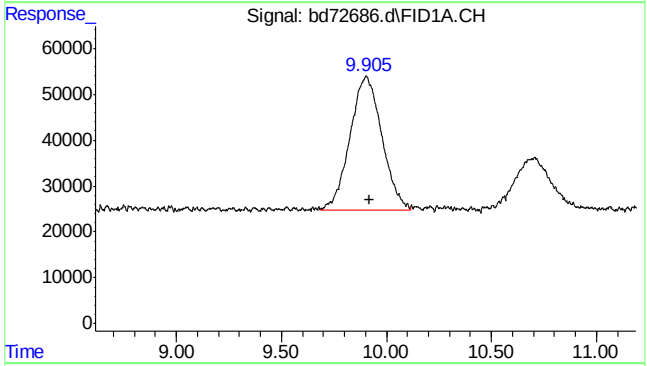


SGS ACCUTEST MC45580



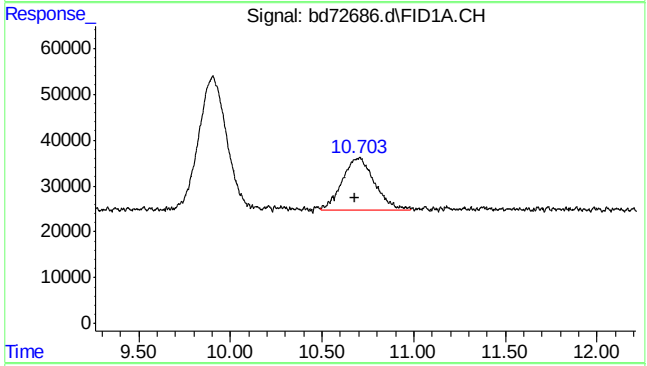
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 2723524
Conc: 4.82 ppb m



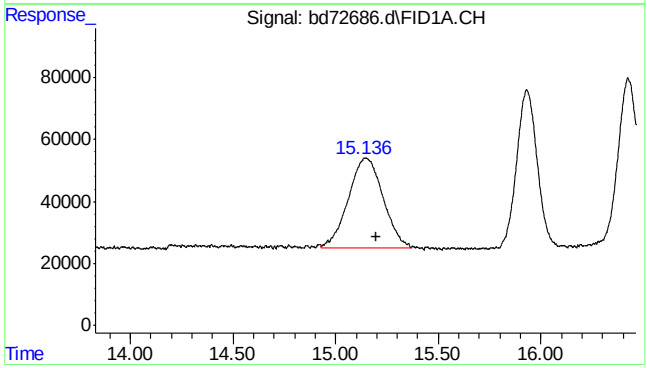
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 3084292
Conc: 4.81 ppb m



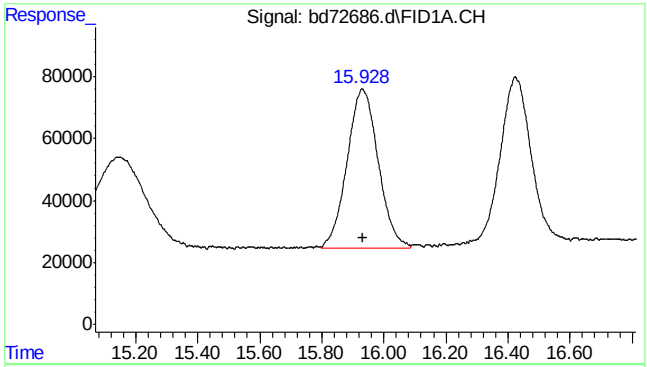
#3 mtbe

R.T.: 10.703 min
Delta R.T.: 0.020 min
Response: 1367206
Conc: 4.69 ppb m



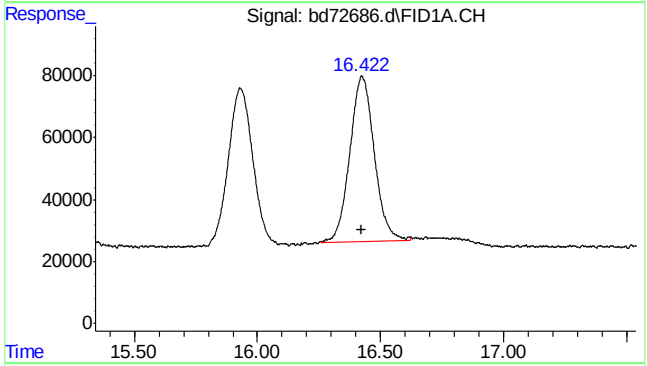
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 3432971
Conc: 4.66 ppb m



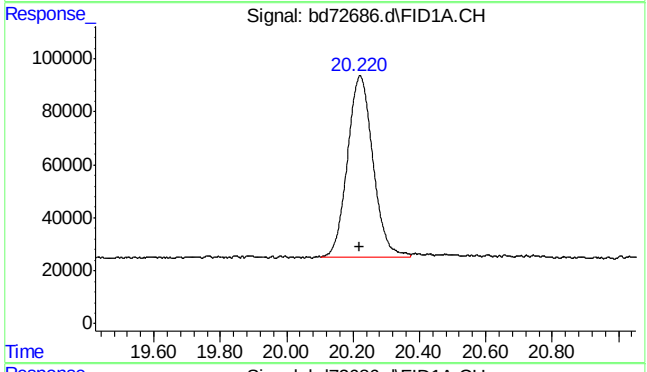
#5 benzene

R.T.: 15.928 min
Delta R.T.: -0.005 min
Response: 3586407
Conc: 4.62 ppb m



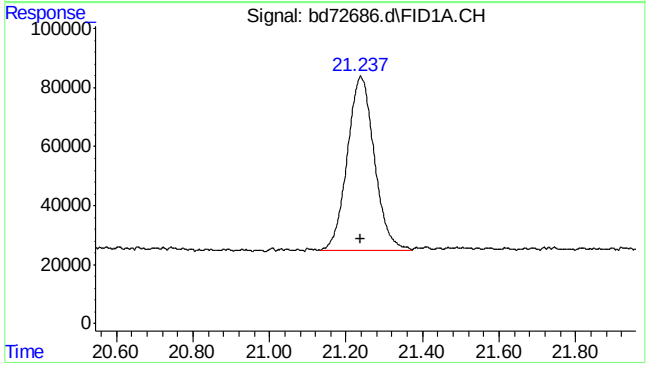
#6 fluorobenzene

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

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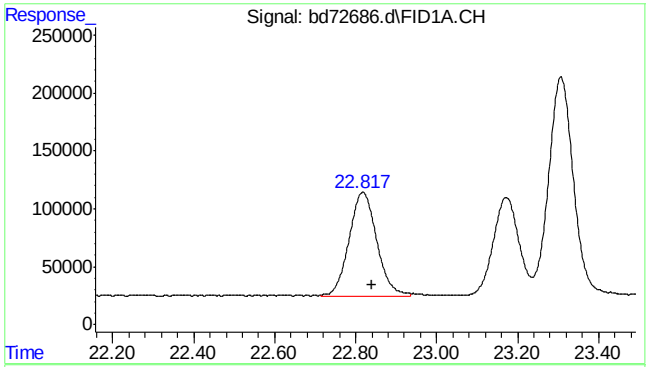
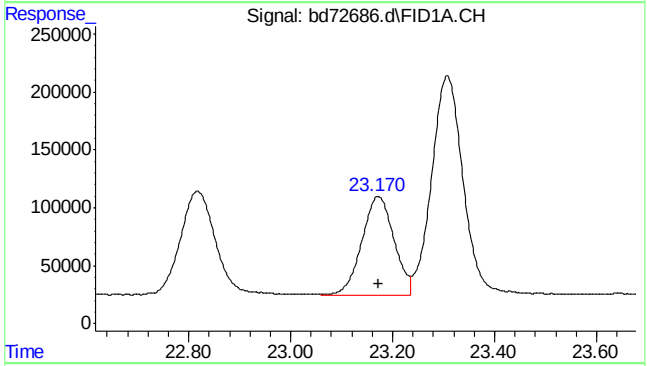


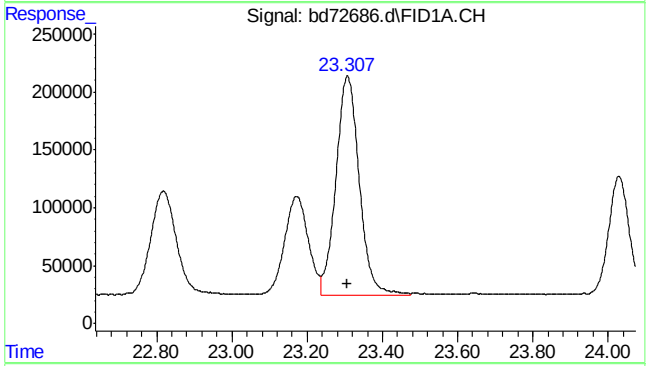
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 4228618
Conc: 5.24 ppb m



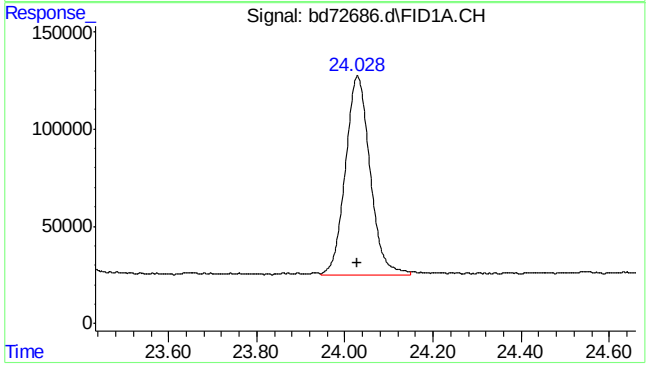
#13 ethylbenzene

R.T.: 23.172 min
Delta R.T.: 0.000 min
Response: 3725793
Conc: 4.74 ppb



#14 m,p-xylene

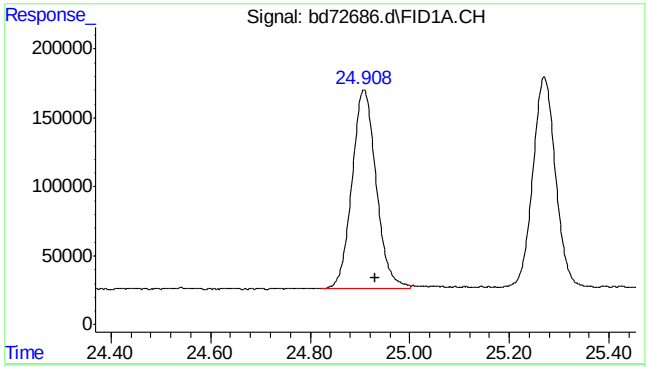
R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 8126886
Conc: 9.94 ppb



#15 o-xylene

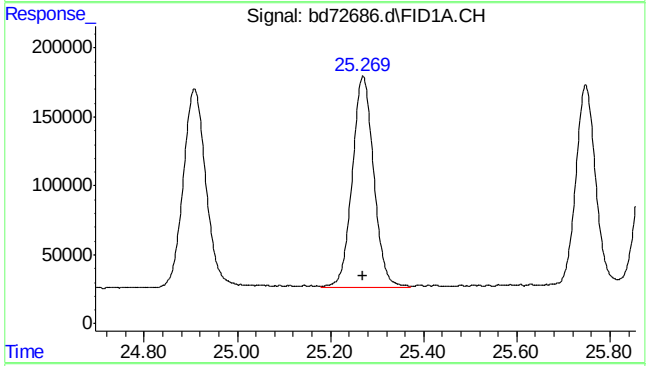
R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 3958698
Conc: 4.80 ppb

SGS ACCUTEST MC45580



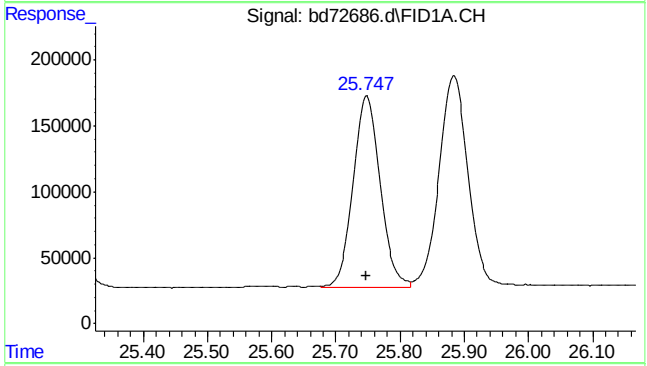
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 4869338
Conc: 5.66 ppb m



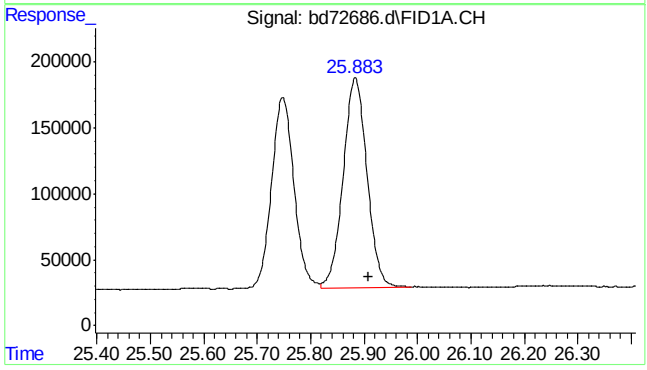
#17 1,3,5-trimethylbenzene

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



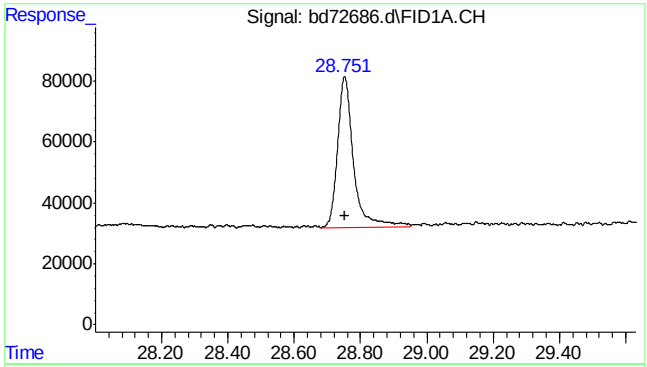
#19 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 4968205
Conc: 5.42 ppb m

7.5.7

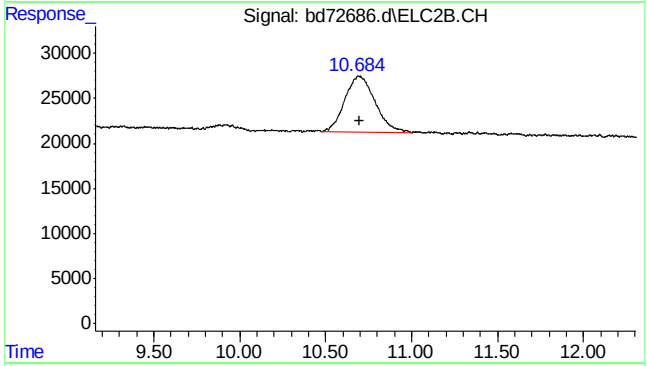
7

SGS ACCUTEST MC45580



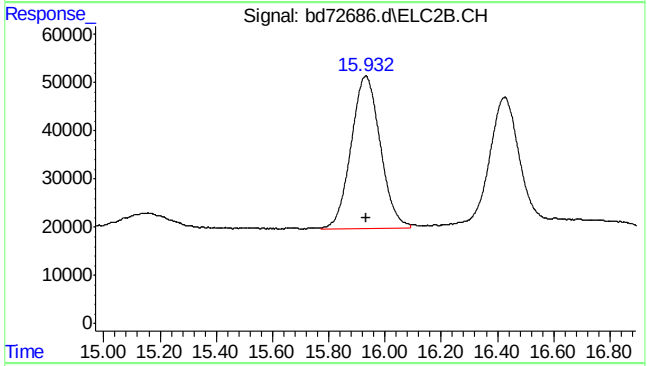
#20 naphthalene

R.T.: 28.751 min
Delta R.T.: 0.000 min
Response: 1655353
Conc: 3.87 ppb m



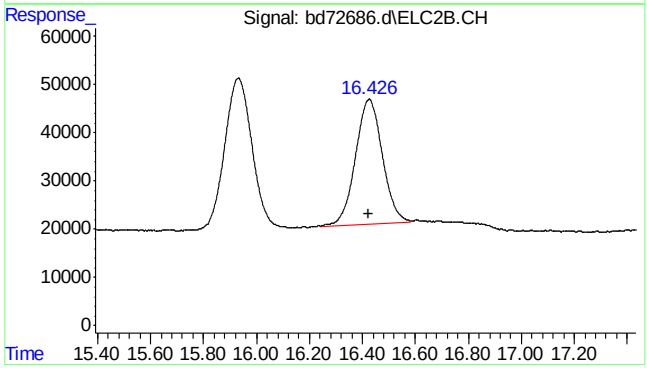
#23 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.011 min
Response: 768191
Conc: 4.93 ppb m



#24 benzene #2

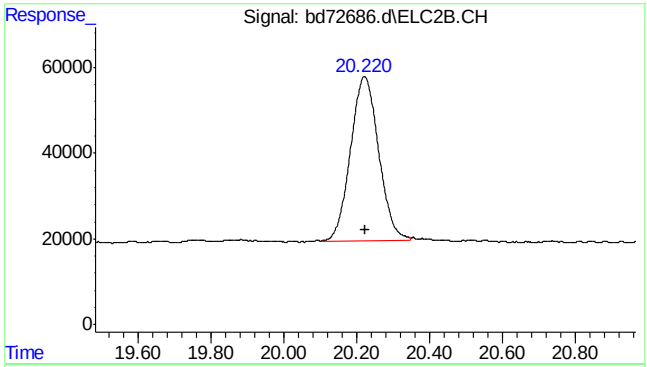
R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 2284991
Conc: 4.90 ppb m



#25 fluorobenzene #2

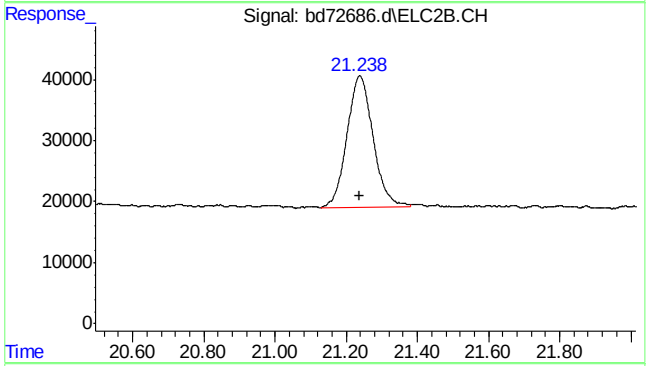
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 1839983
Conc: 5.19 ppb

SGS ACCUTEST MC45580



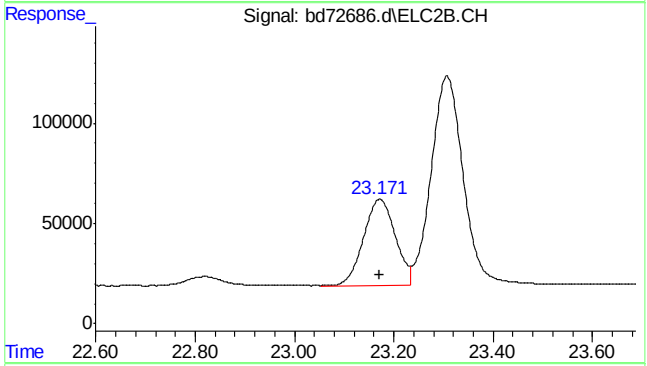
#26 toluene #2

R.T.: 20.221 min
Delta R.T.: 0.000 min
Response: 2057654
Conc: 4.80 ppb



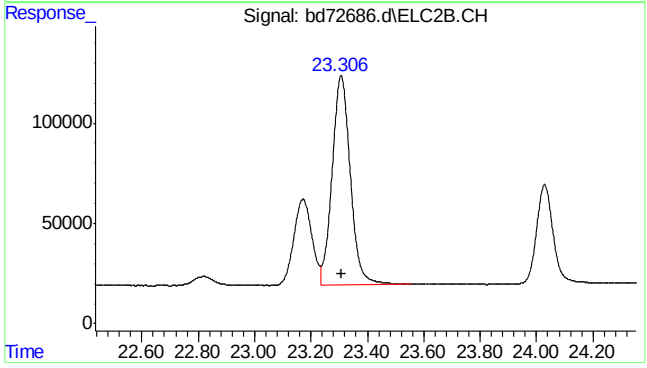
#27 2,3,4-trifluorotoluene #2

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 1093855
Conc: 5.32 ppb



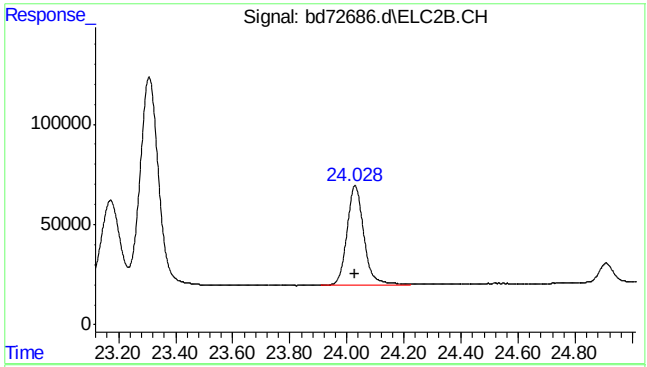
#28 ethylbenzene #2

R.T.: 23.171 min
Delta R.T.: 0.000 min
Response: 1919162
Conc: 4.90 ppb



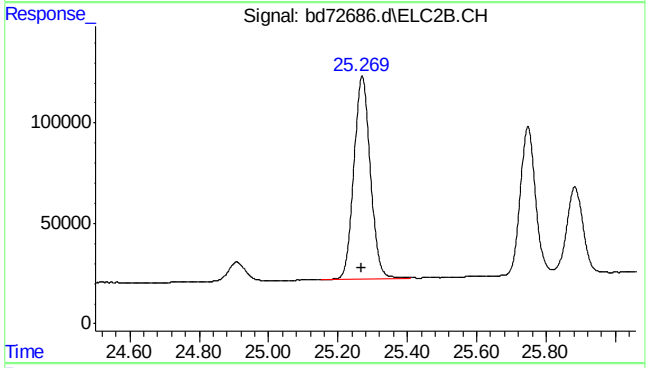
#29 m,p-xylene #2

R.T.: 23.307 min
Delta R.T.: 0.000 min
Response: 4695443
Conc: 9.85 ppb



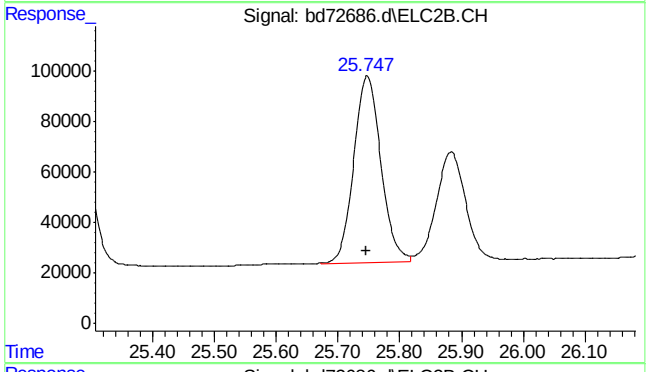
#30 o-xylene #2

R.T.: 24.029 min
Delta R.T.: 0.000 min
Response: 2037337
Conc: 4.99 ppb



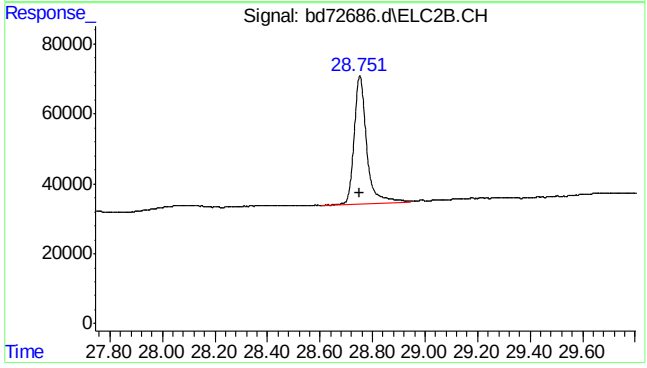
#31 1,3,5-trimethylbenzene #2

R.T.: 25.270 min
Delta R.T.: 0.001 min
Response: 3360107
Conc: 5.13 ppb



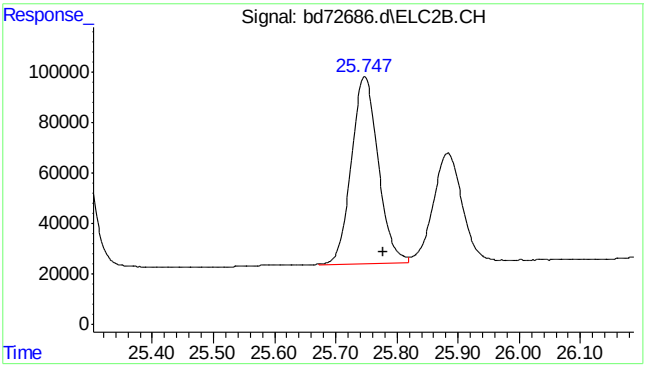
#32 1,2,4-trimethylbenzene #2

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



#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

7.5.7

7

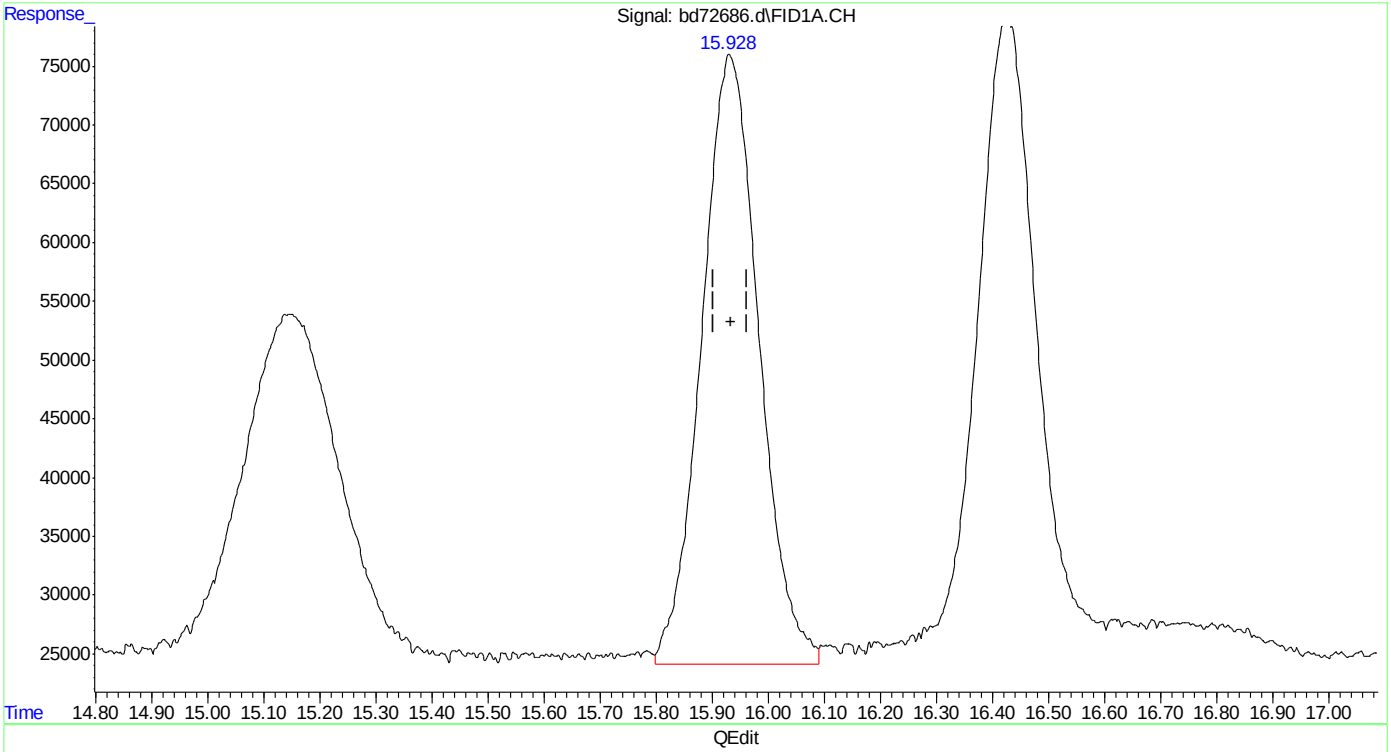
SGS ACCUTEST MC45580

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

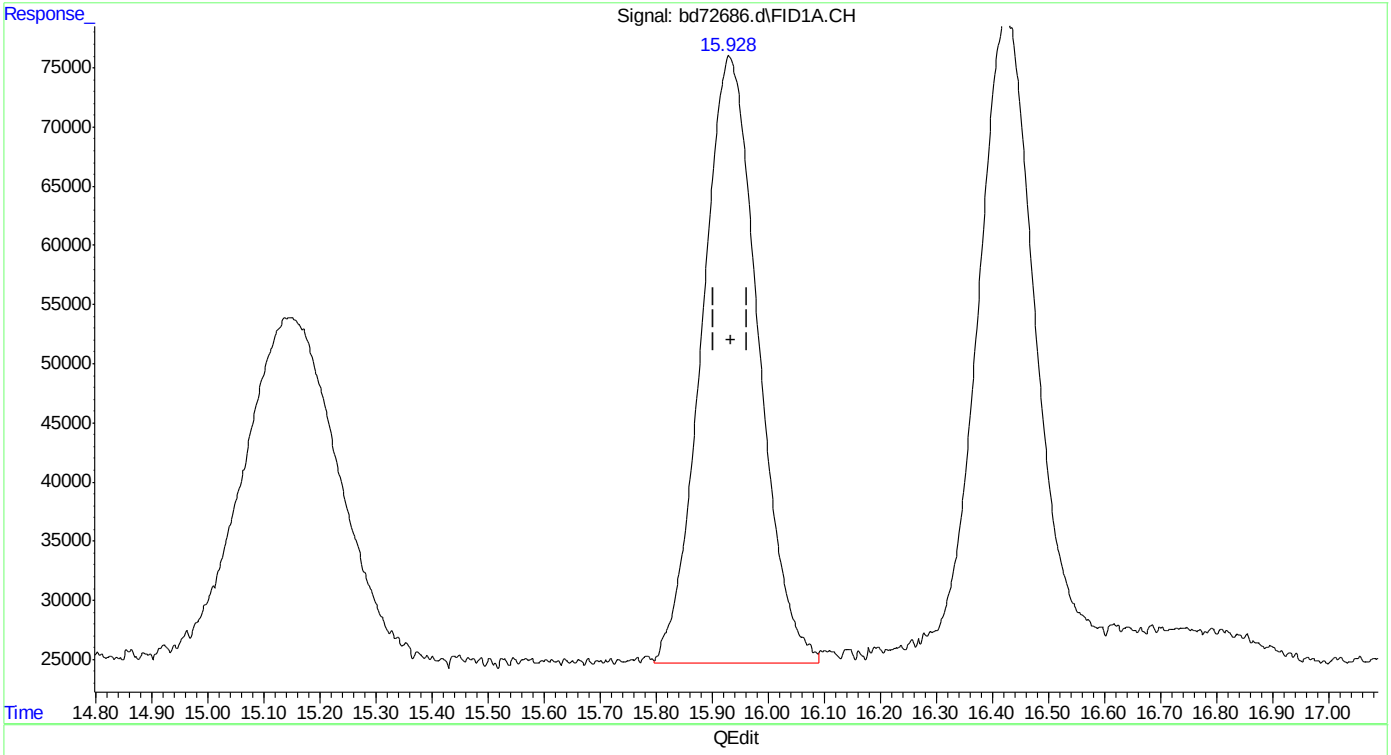
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:33 2016

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

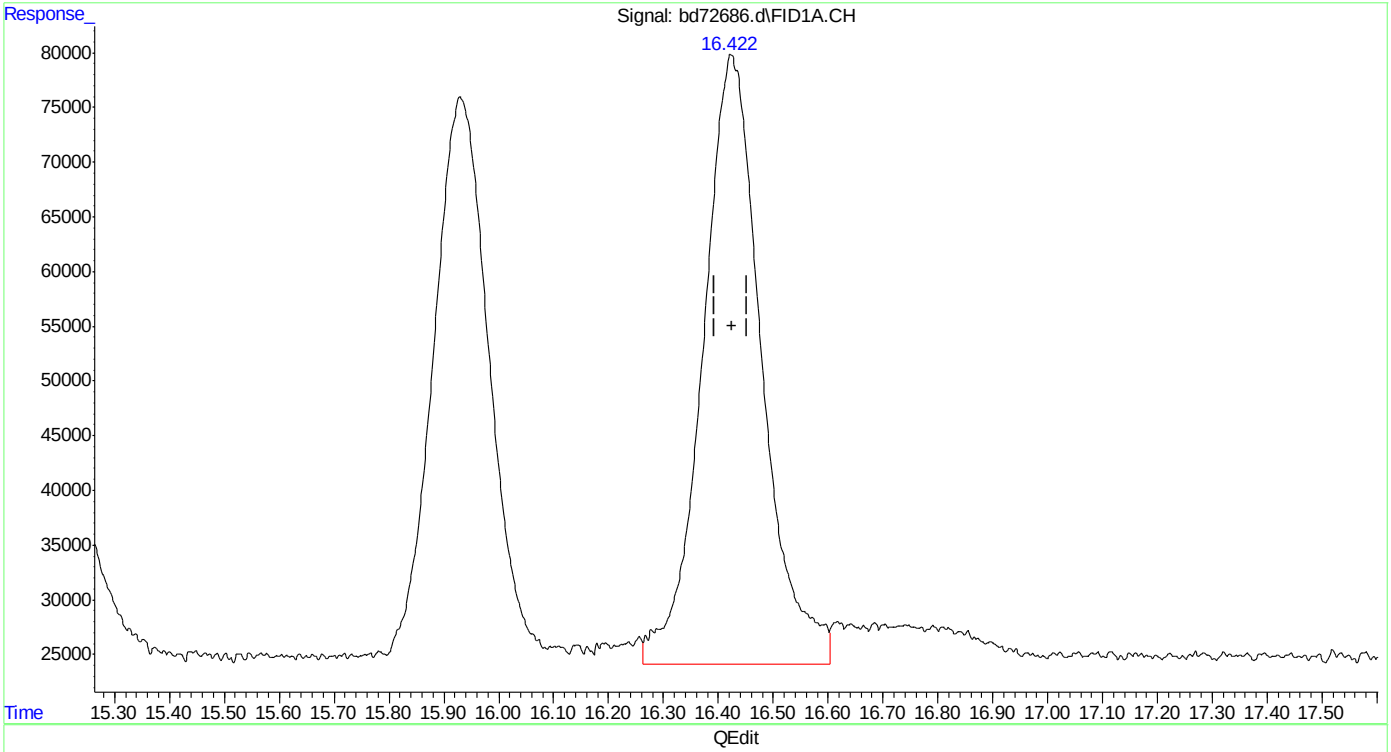
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:41 2016

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

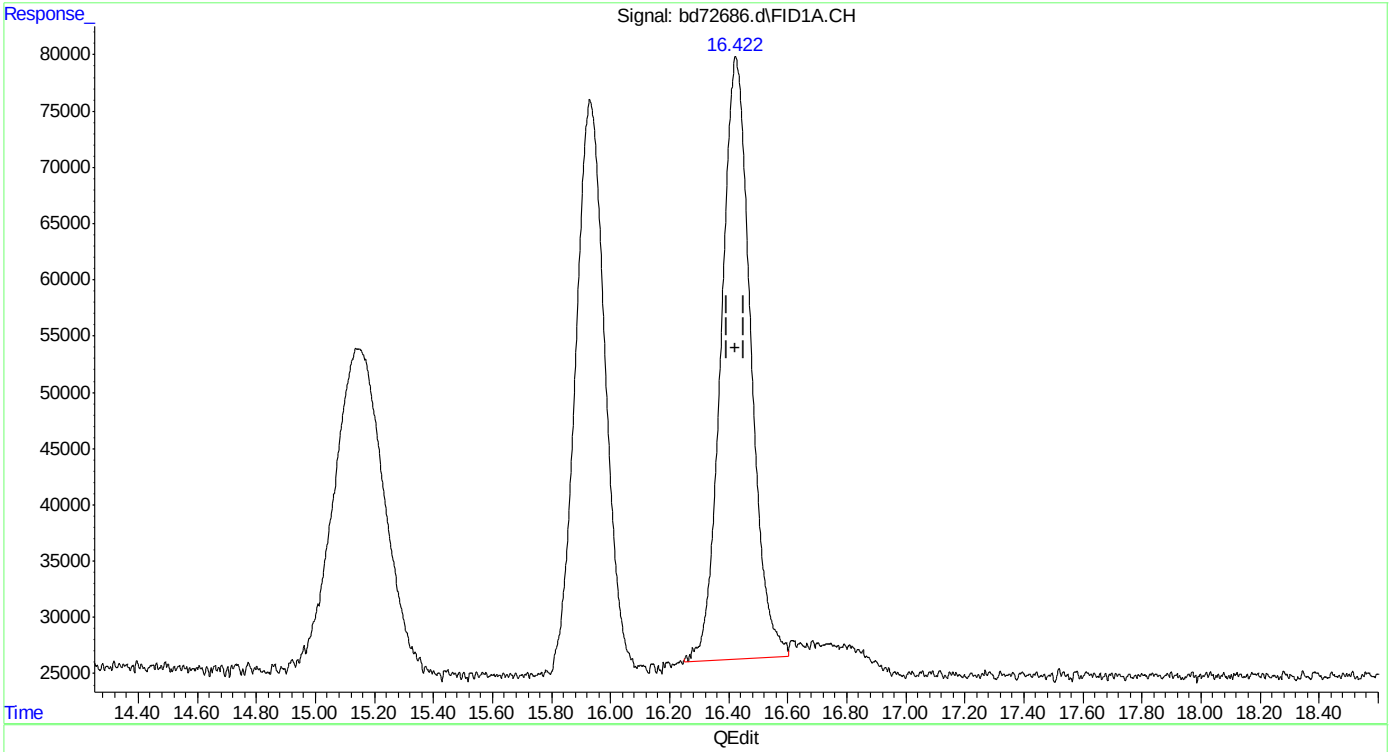
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:45 2016 Page: 1

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 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

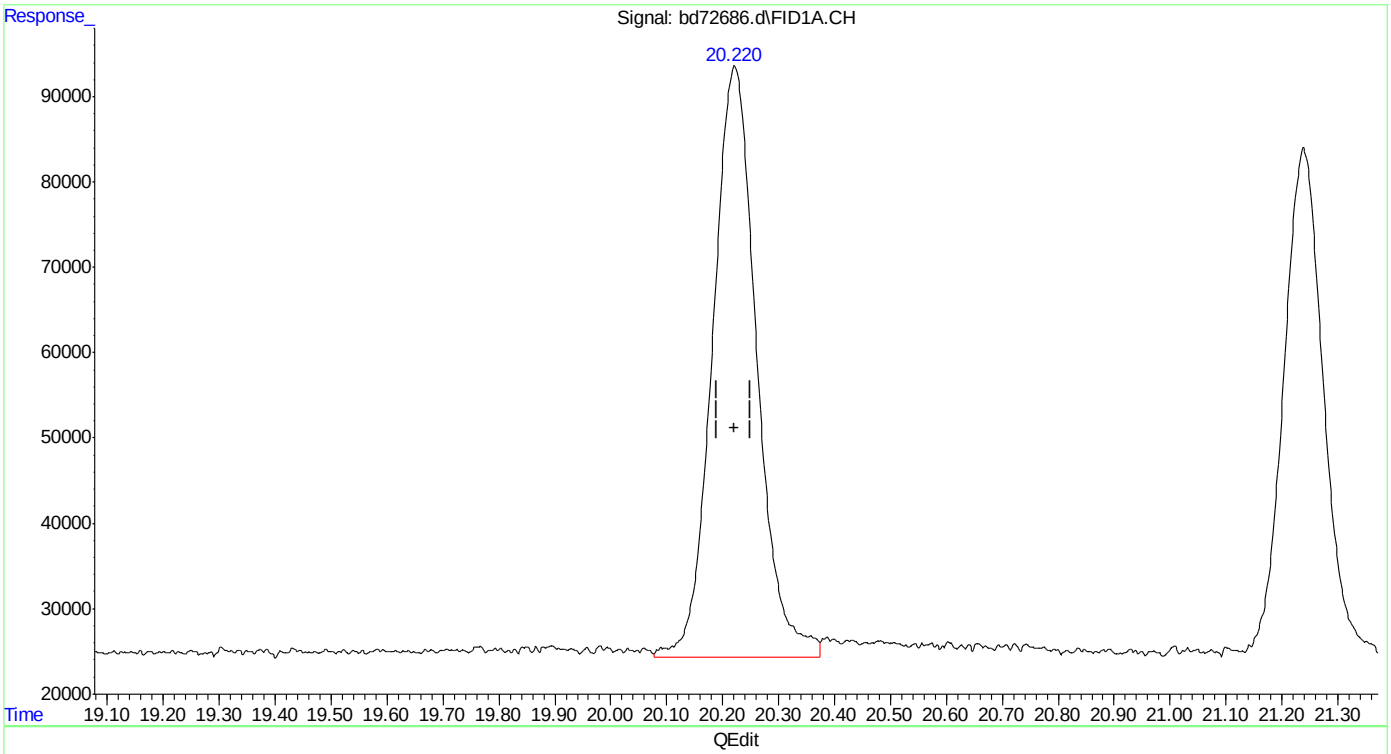
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:52:58 2016 Page: 1

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 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
bd160219master.M Fri Feb 19 11:53:03 2016

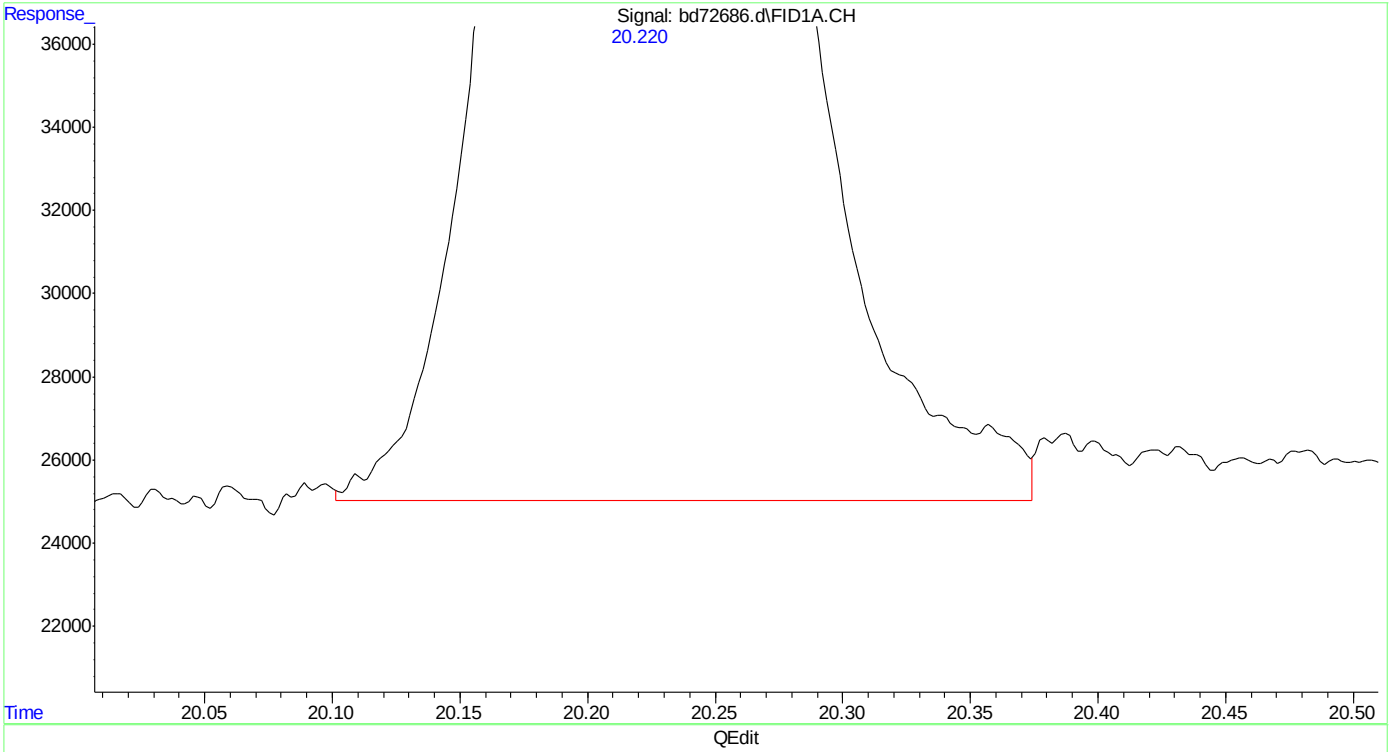
SGS ACCUTEST MC45580

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

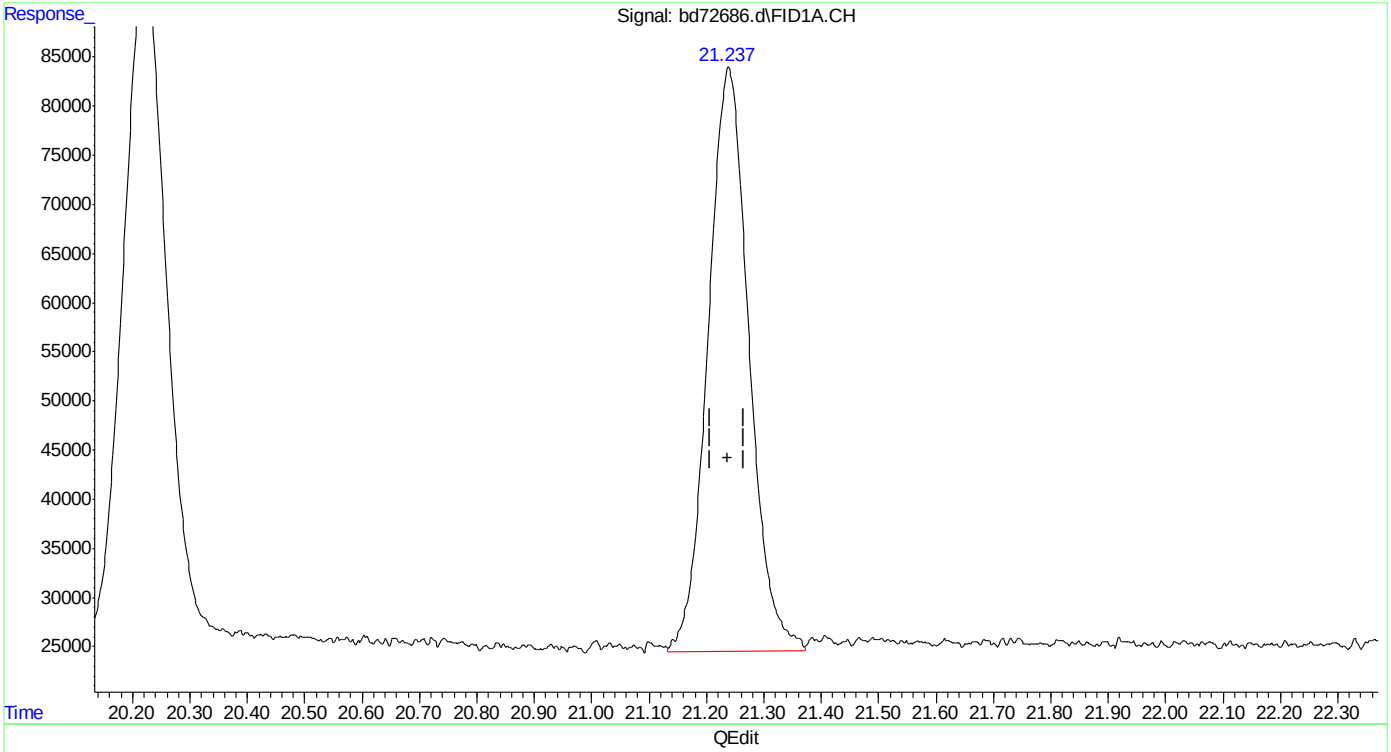
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:09 2016 Page: 1

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 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

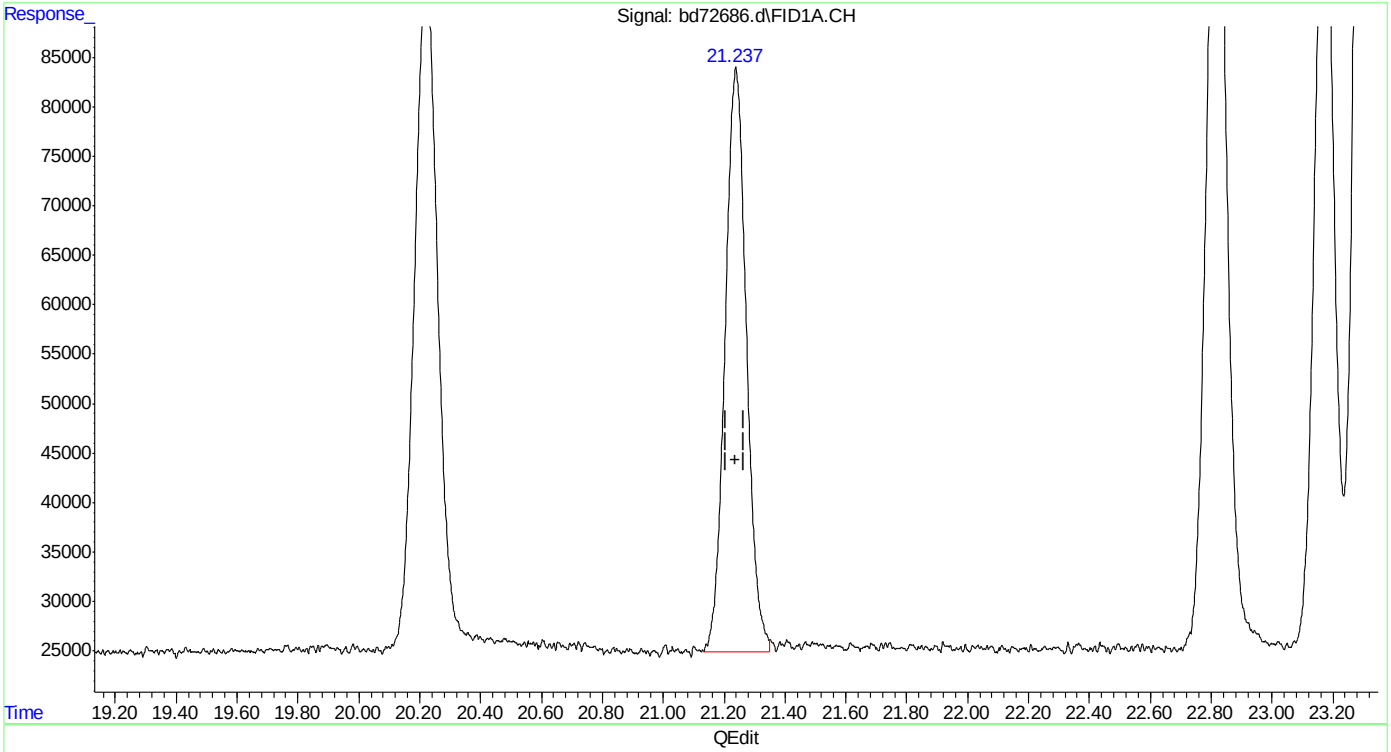
SGS ACCUTEST MC45580

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

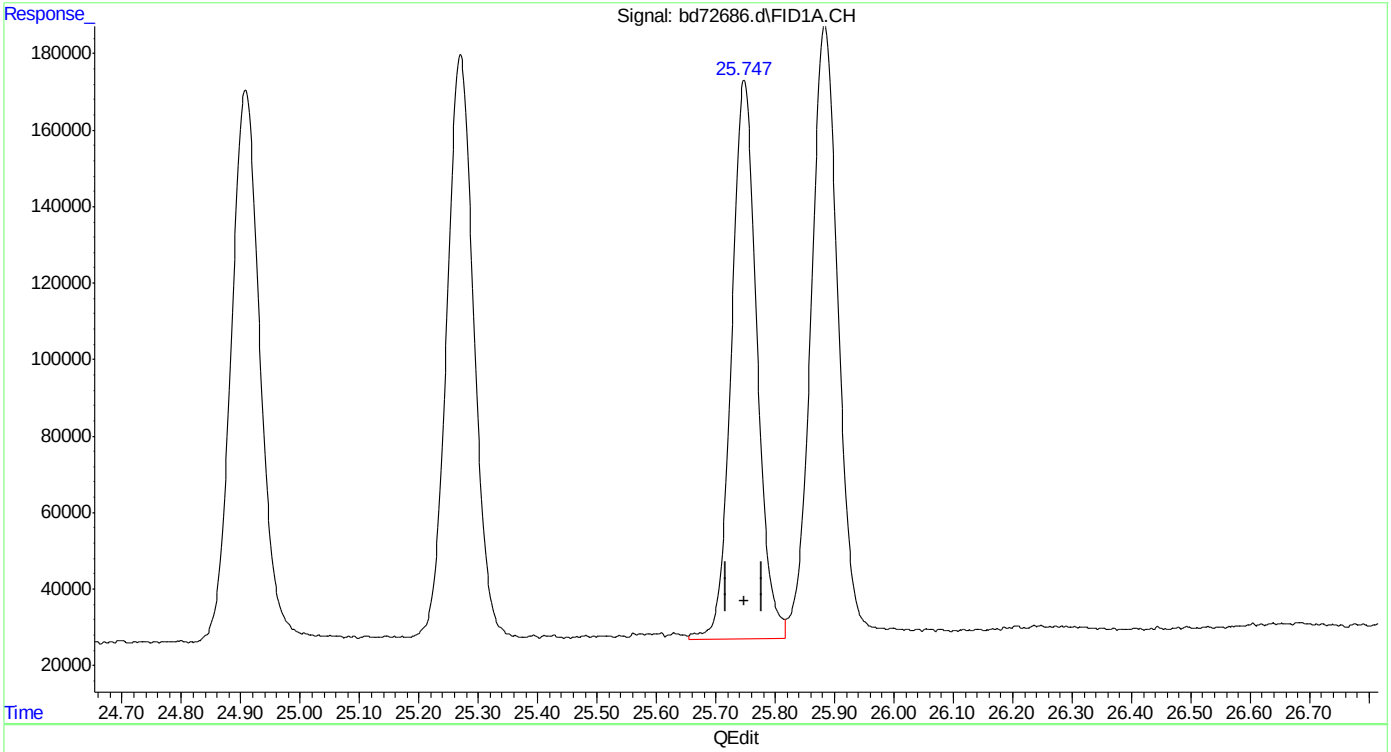
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:53:24 2016

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
bd160219master.M Fri Feb 19 11:54:13 2016

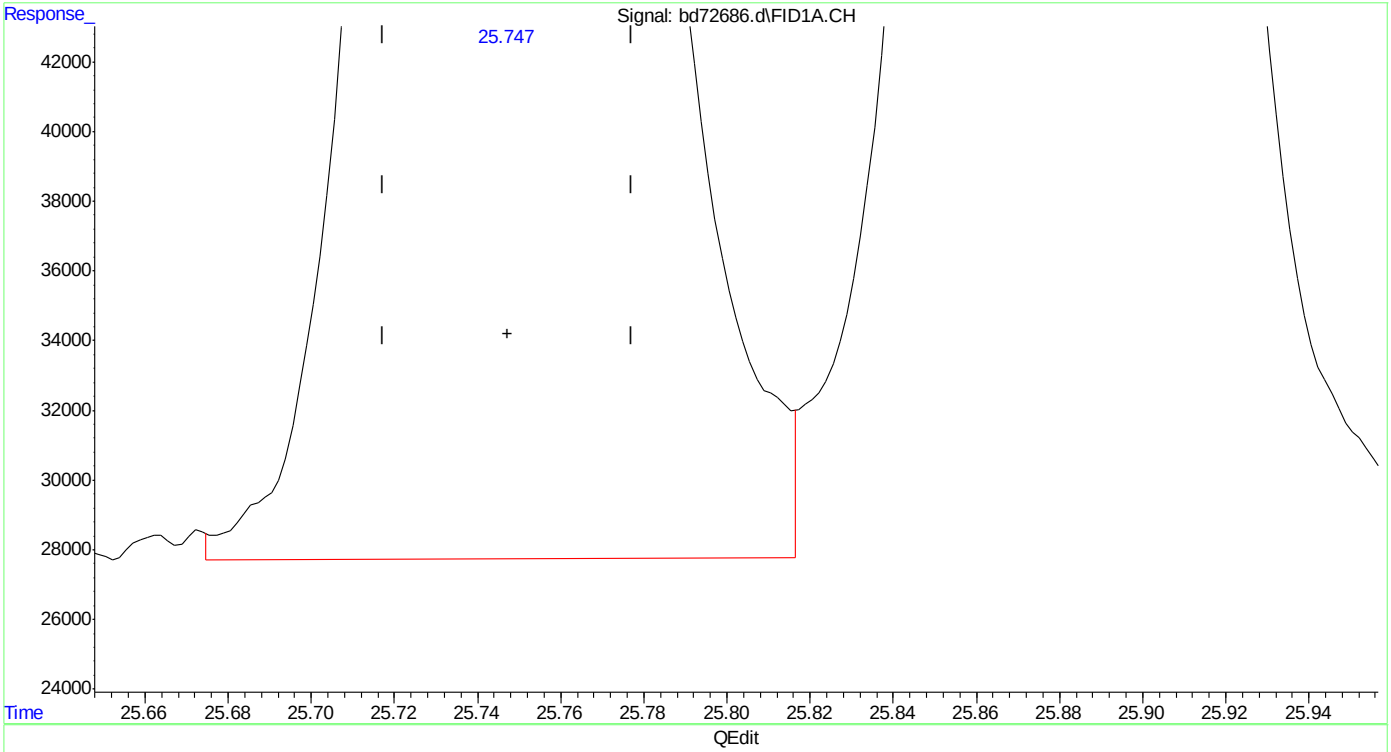
SGS ACCUTEST MC45580

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
bd160219master.M Fri Feb 19 11:54:19 2016

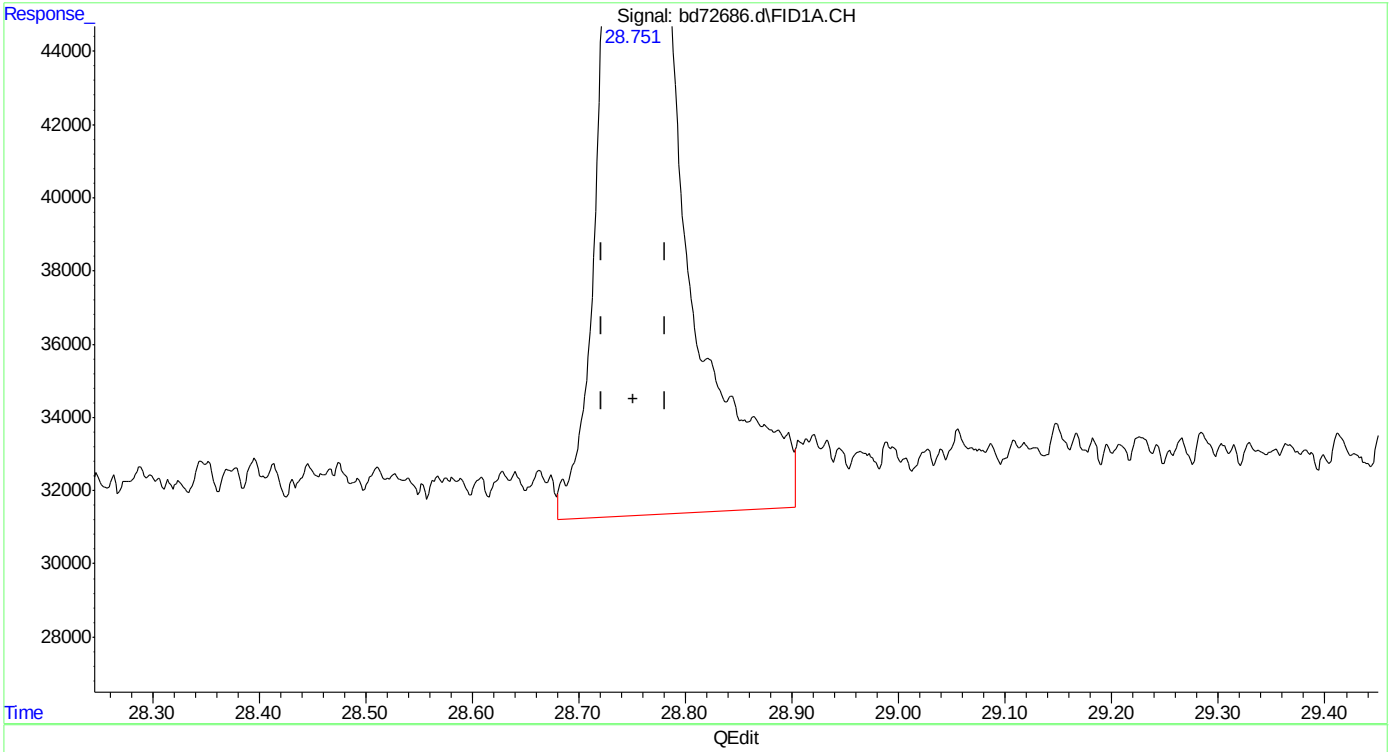
SGS ACCUTEST MC45580

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

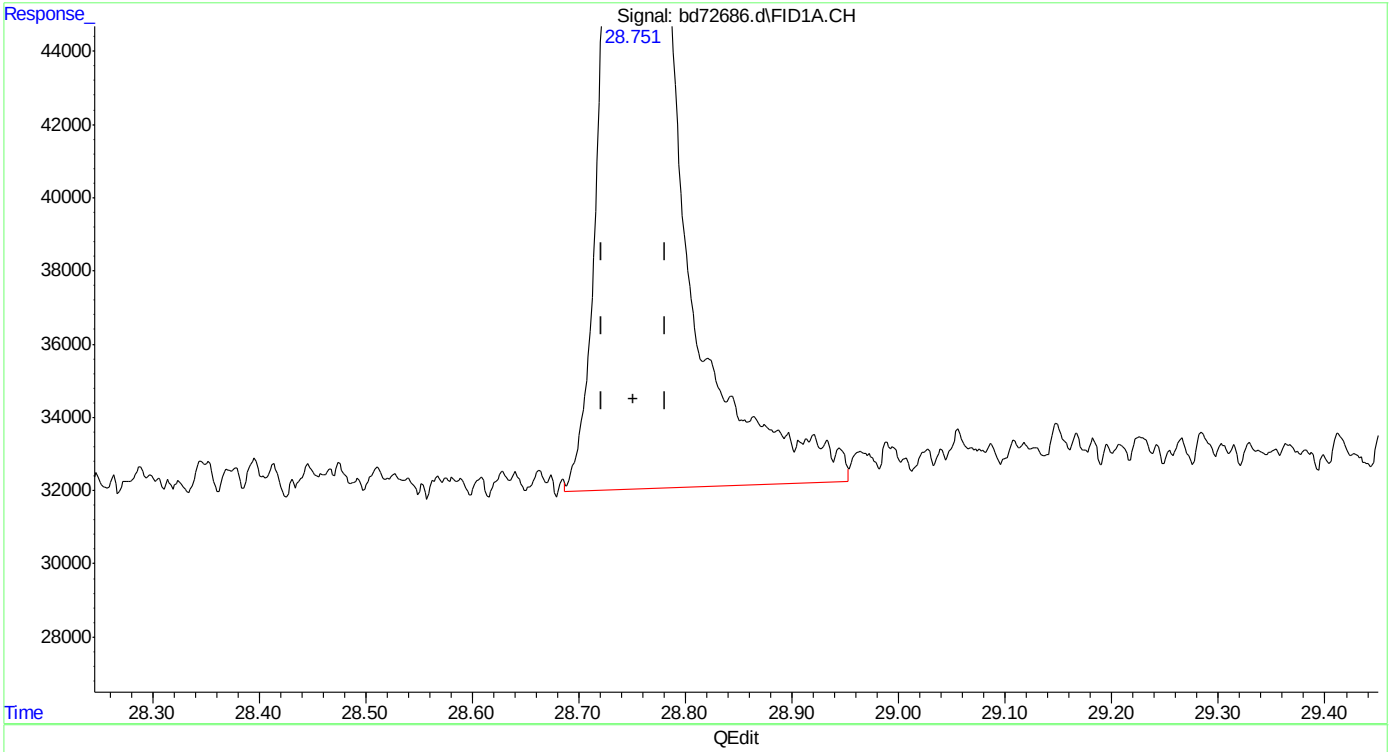
(+) = Expected Retention Time

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

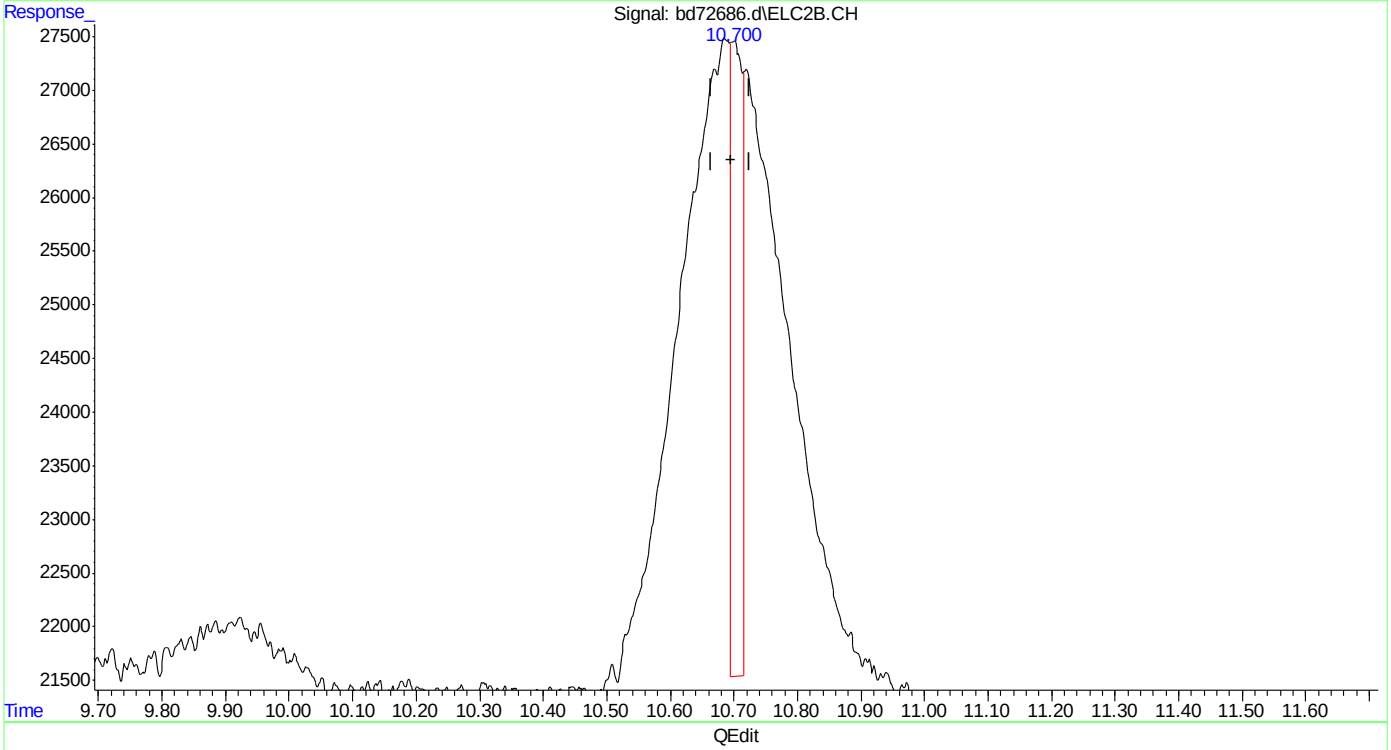
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:52 2016

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
10.700min 0.472 ppb
response 74623

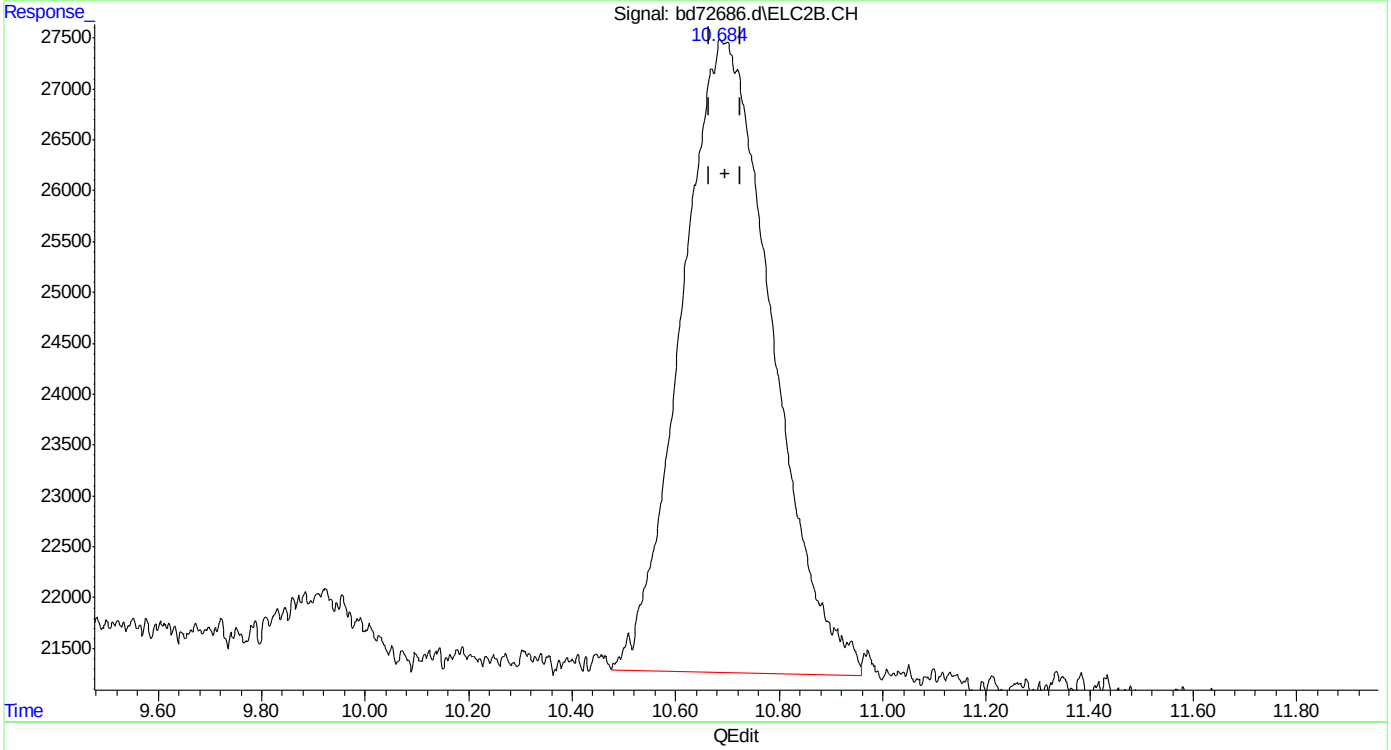
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 11:54:57 2016

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

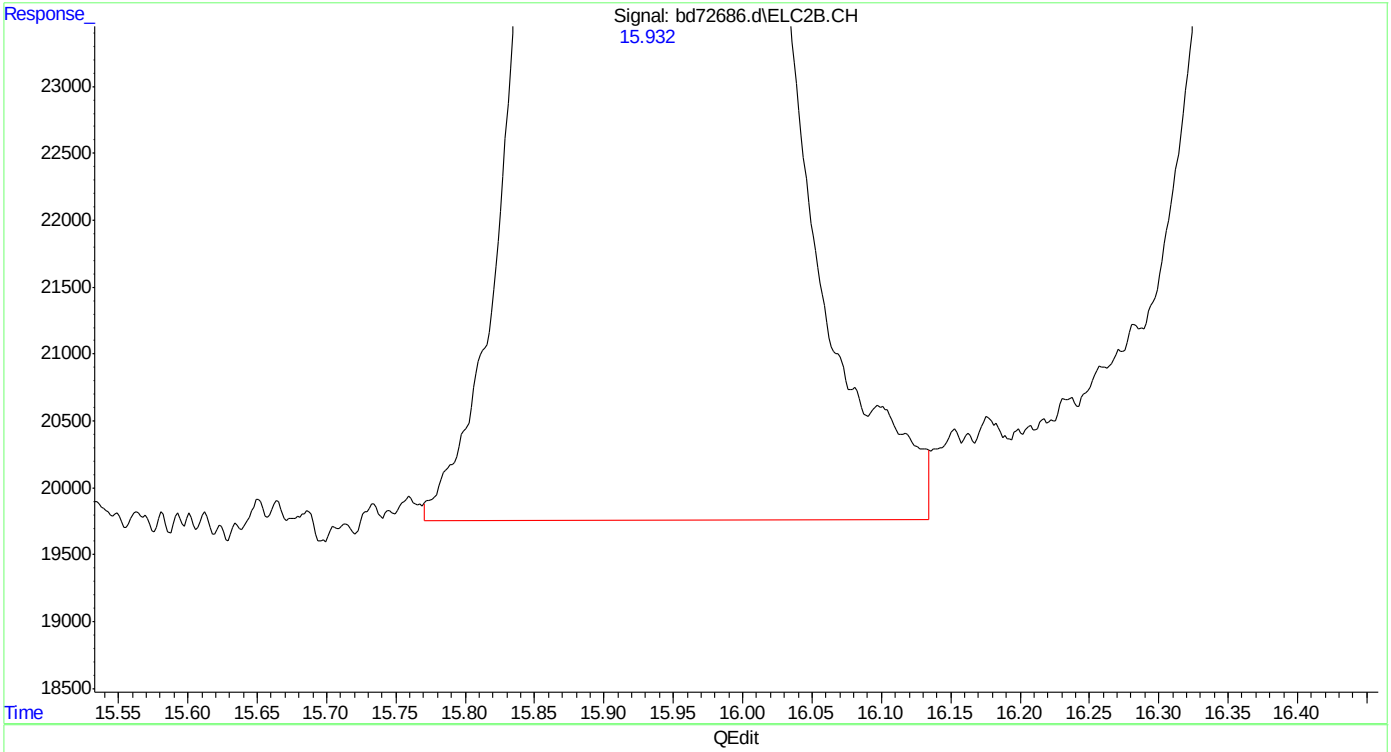
(+) = Expected Retention Time

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

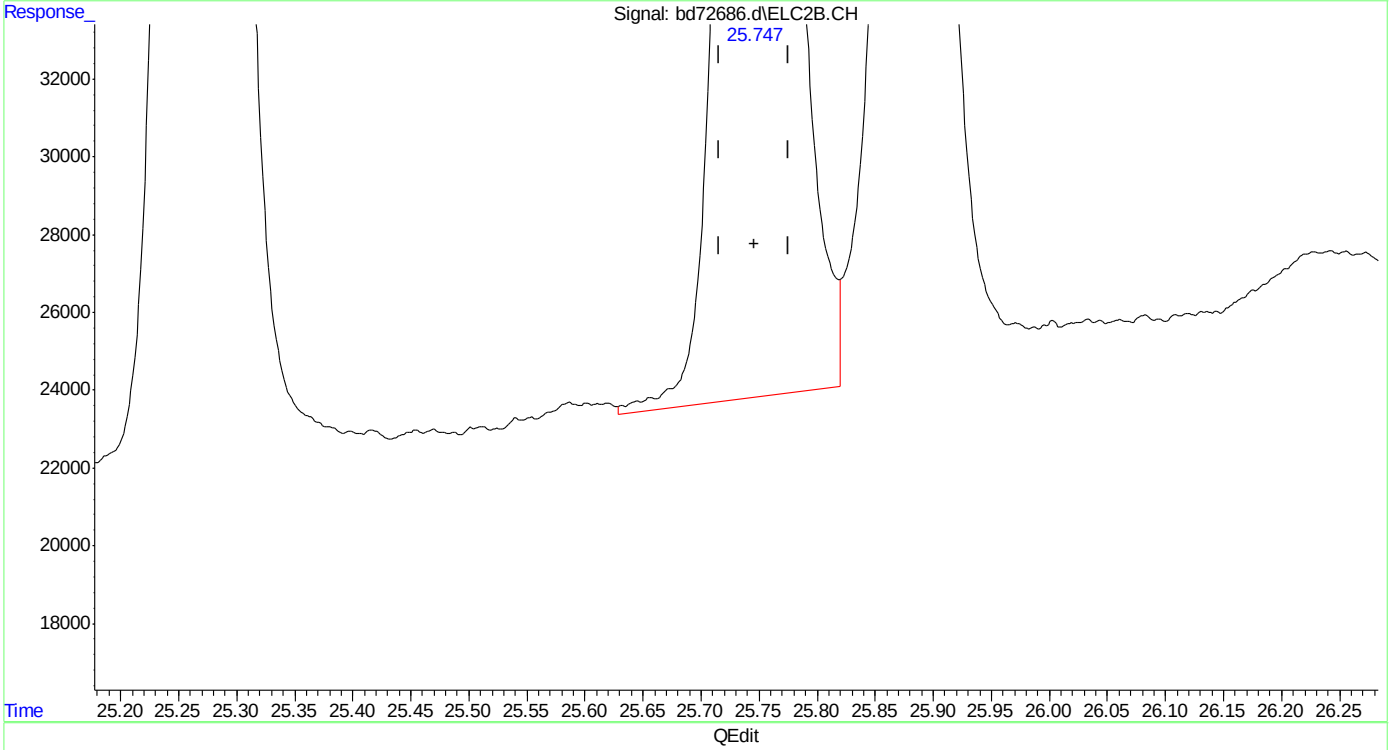
SGS ACCUTEST MC45580

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

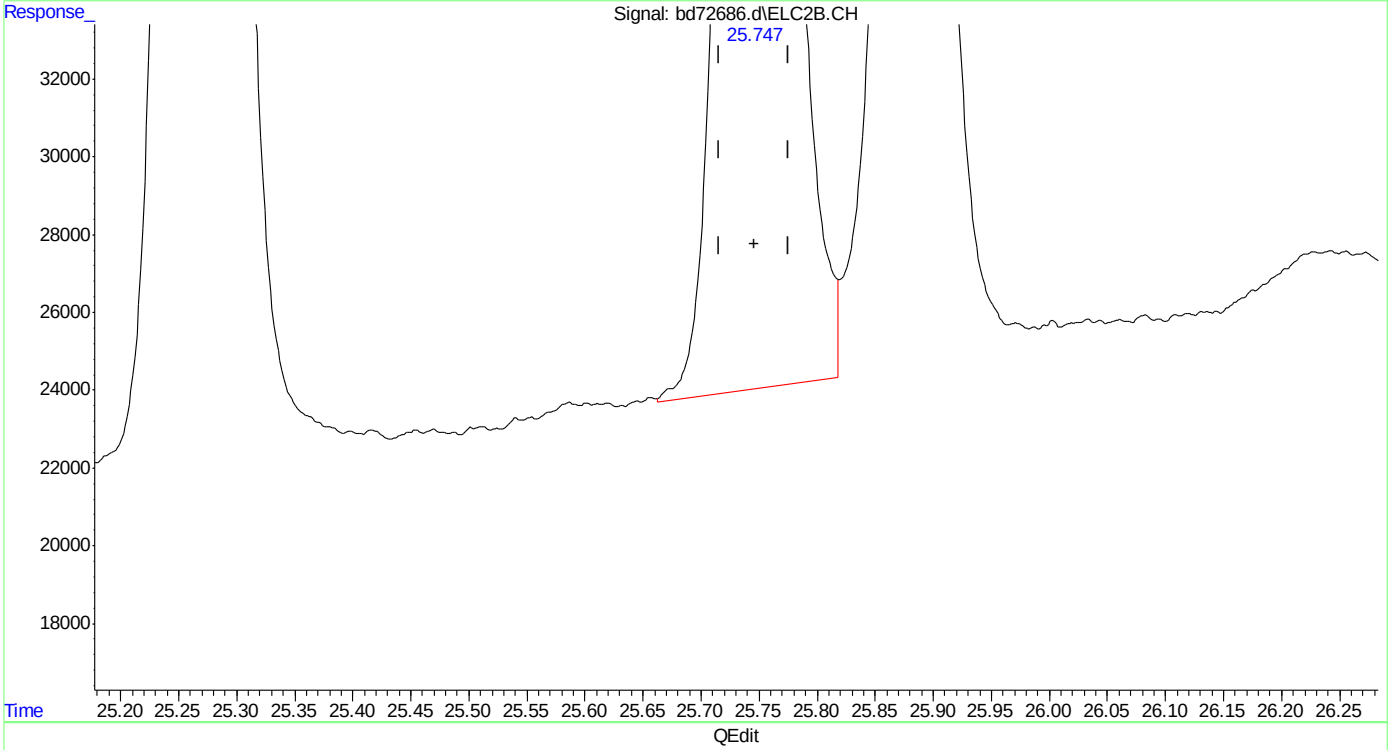
SGS ACCUTEST MC45580

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

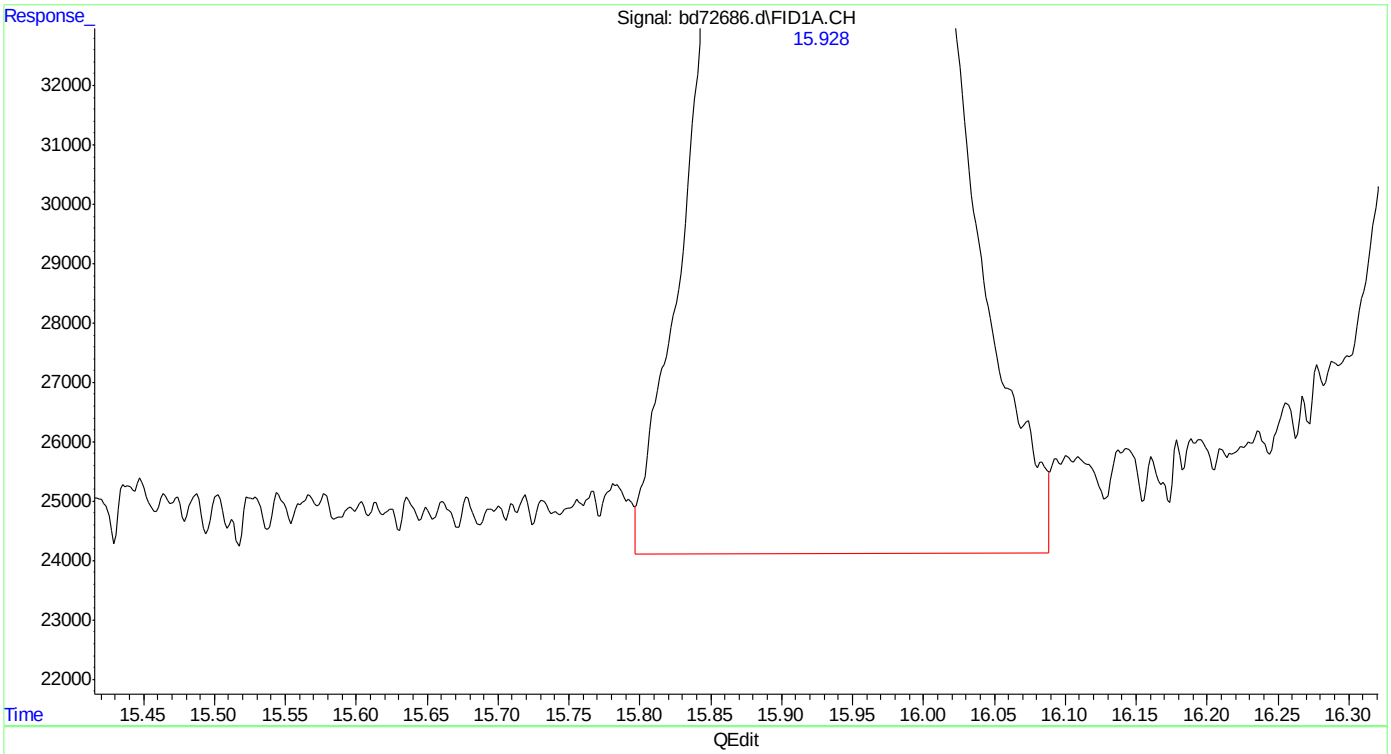
SGS ACCUTEST MC45580

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

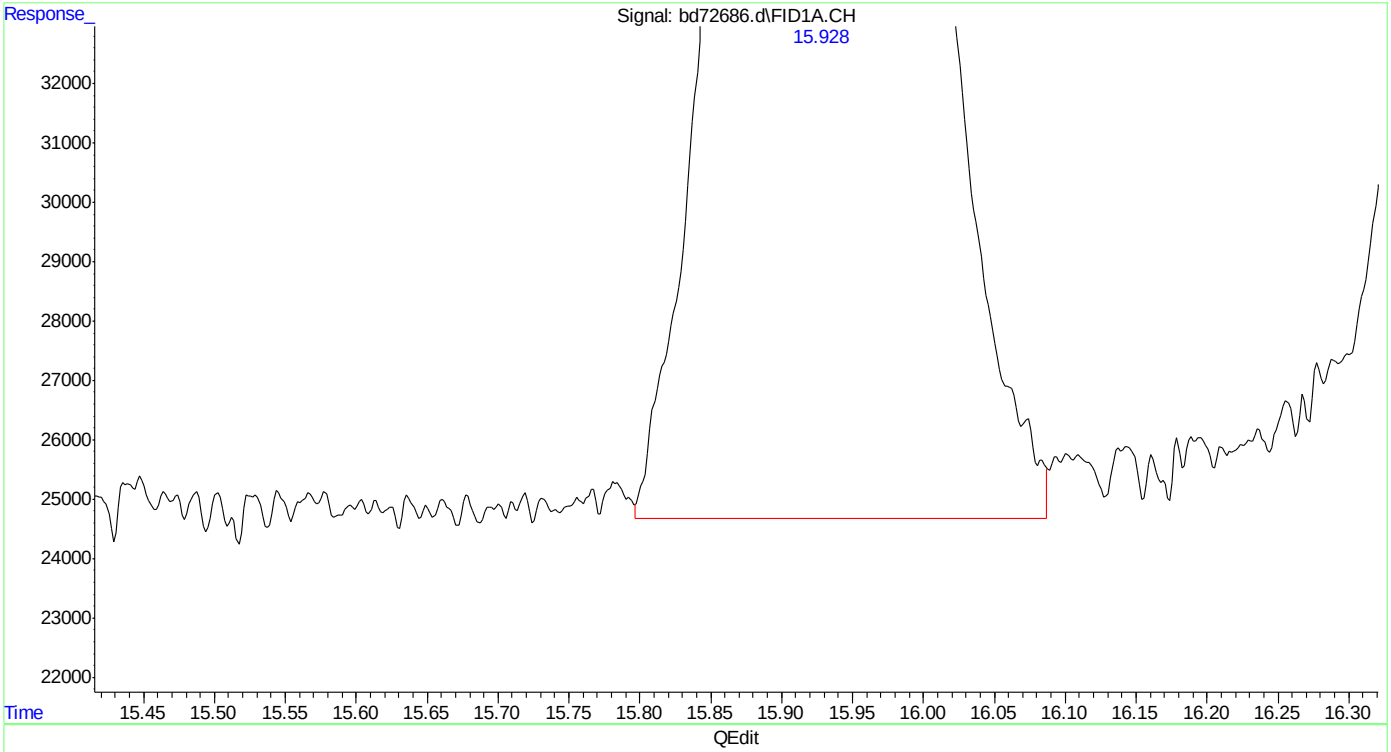
SGS ACCUTEST MC45580

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

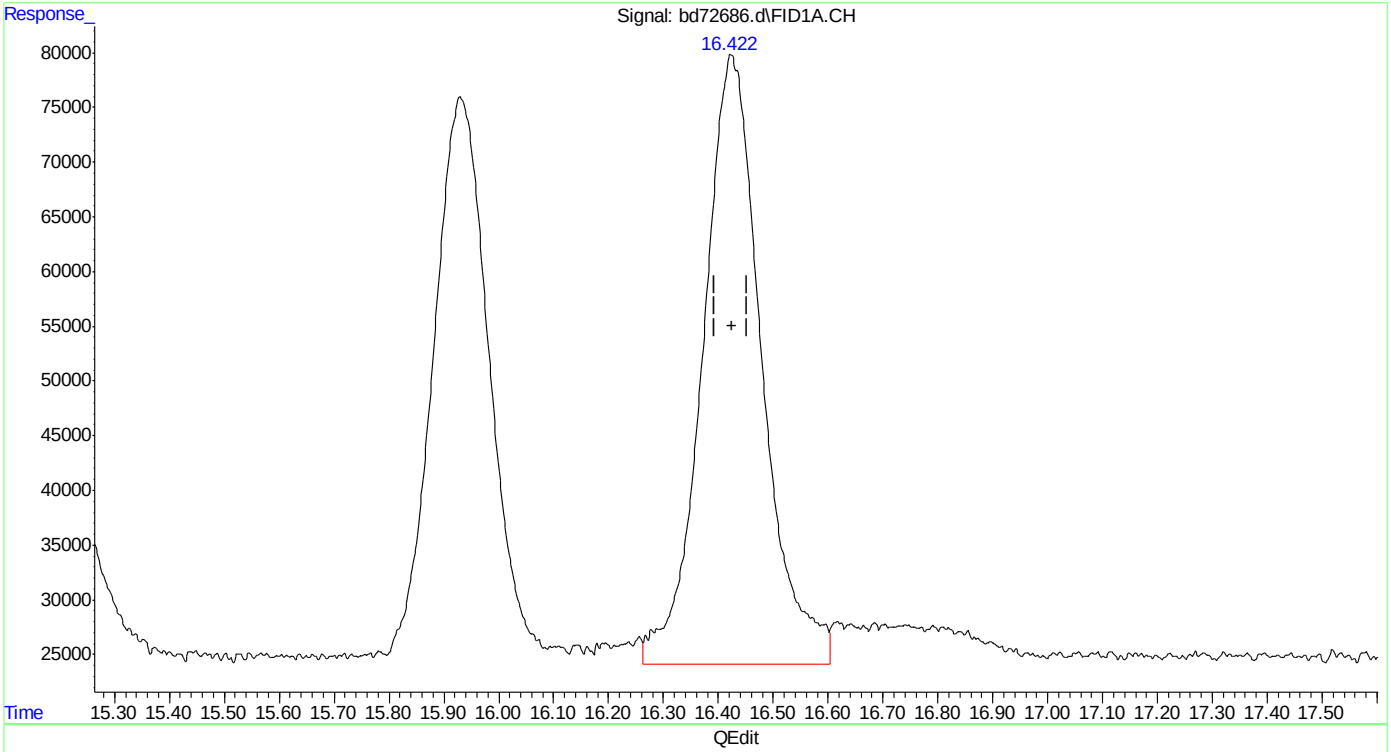
SGS ACCUTEST MC45580

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

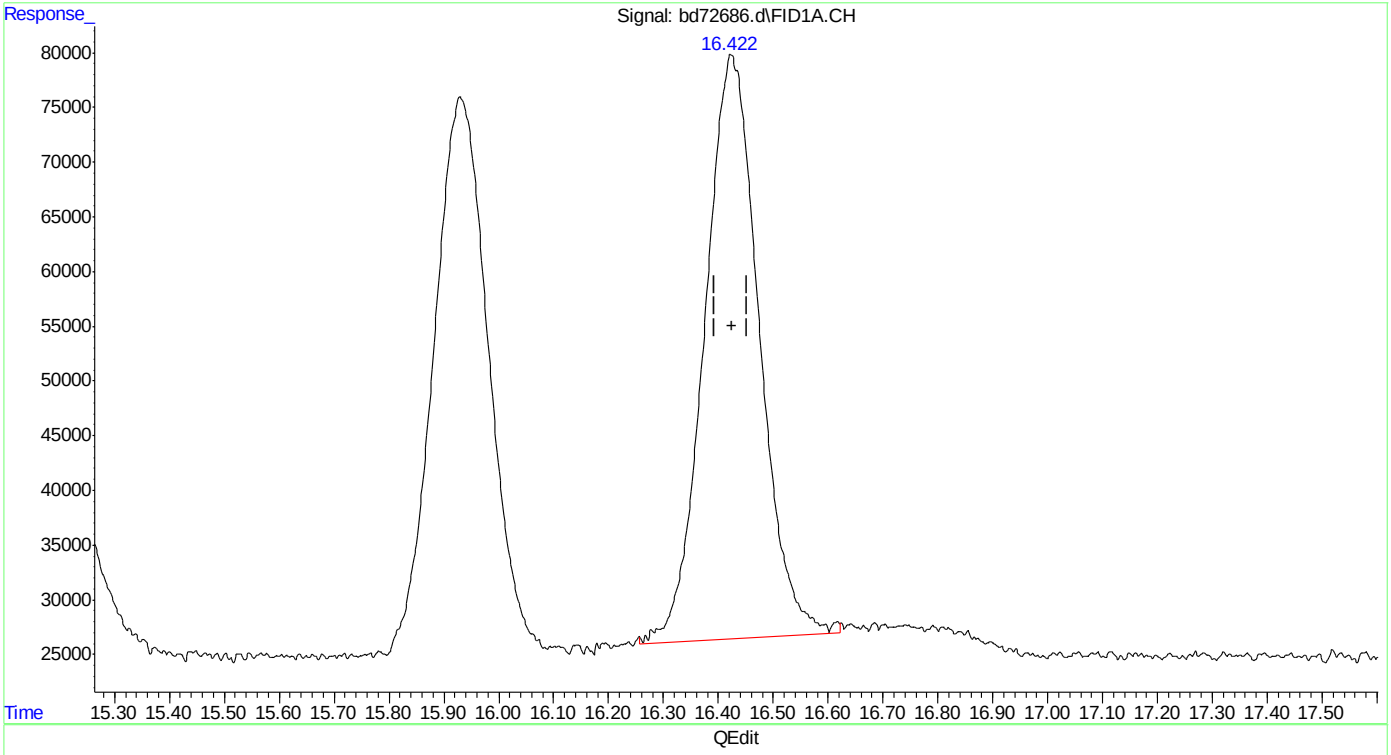
SGS ACCUTEST MC45580

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

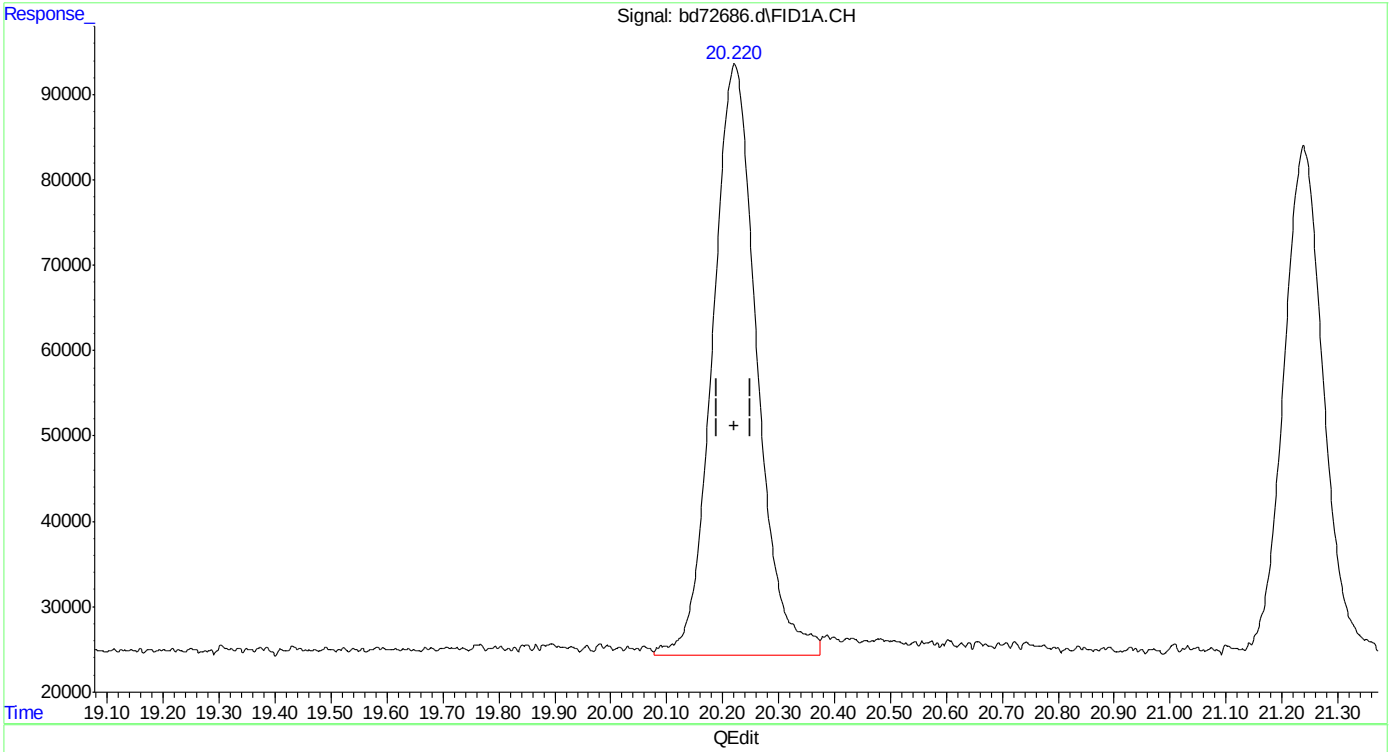
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:44 2016

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
20.222min 4.870 ppb
response 3795317

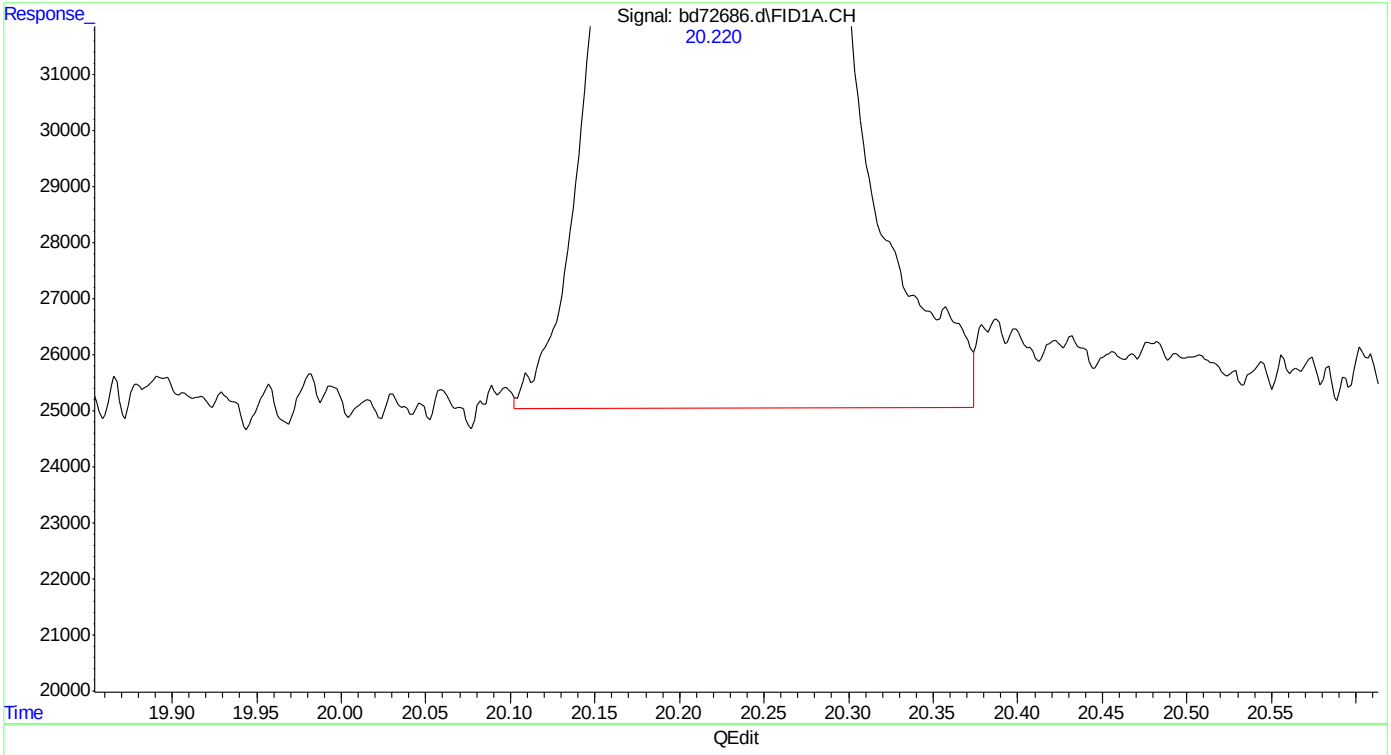
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:48 2016

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

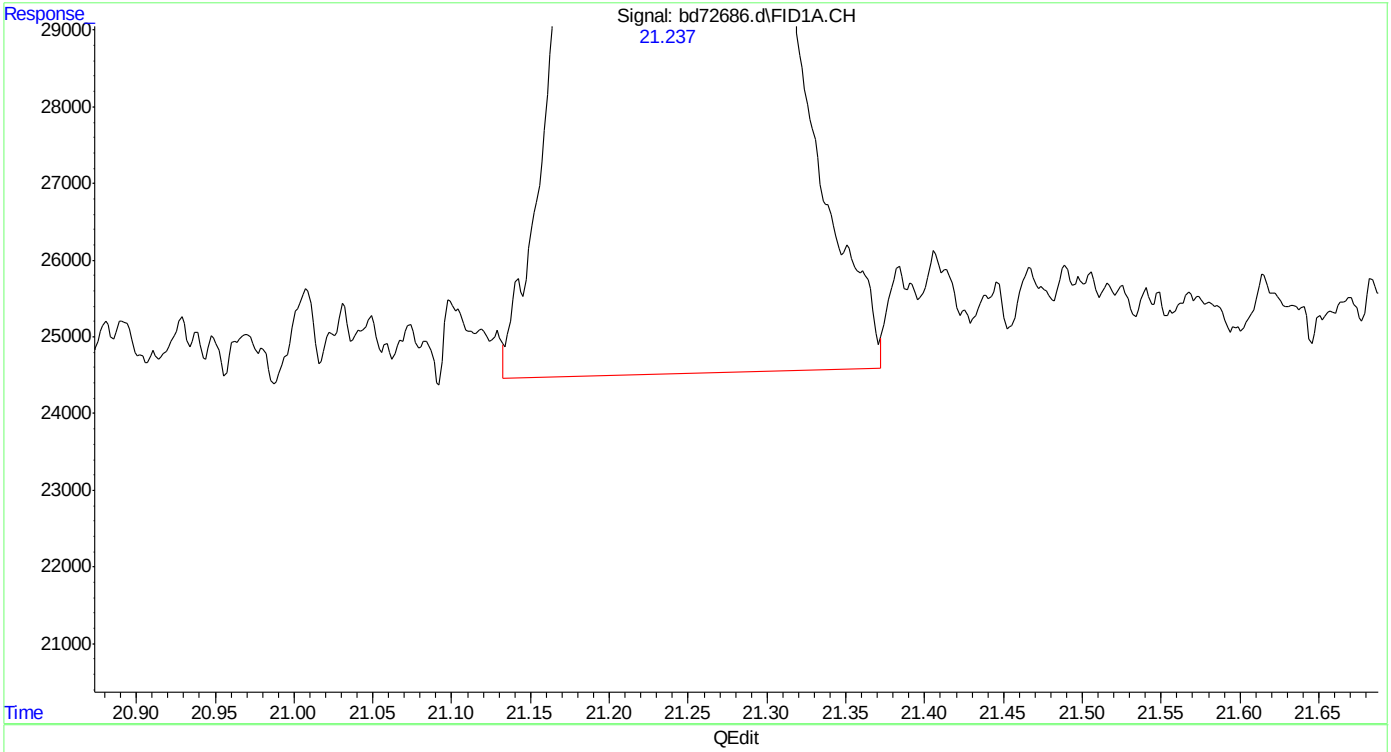
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:06:54 2016

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

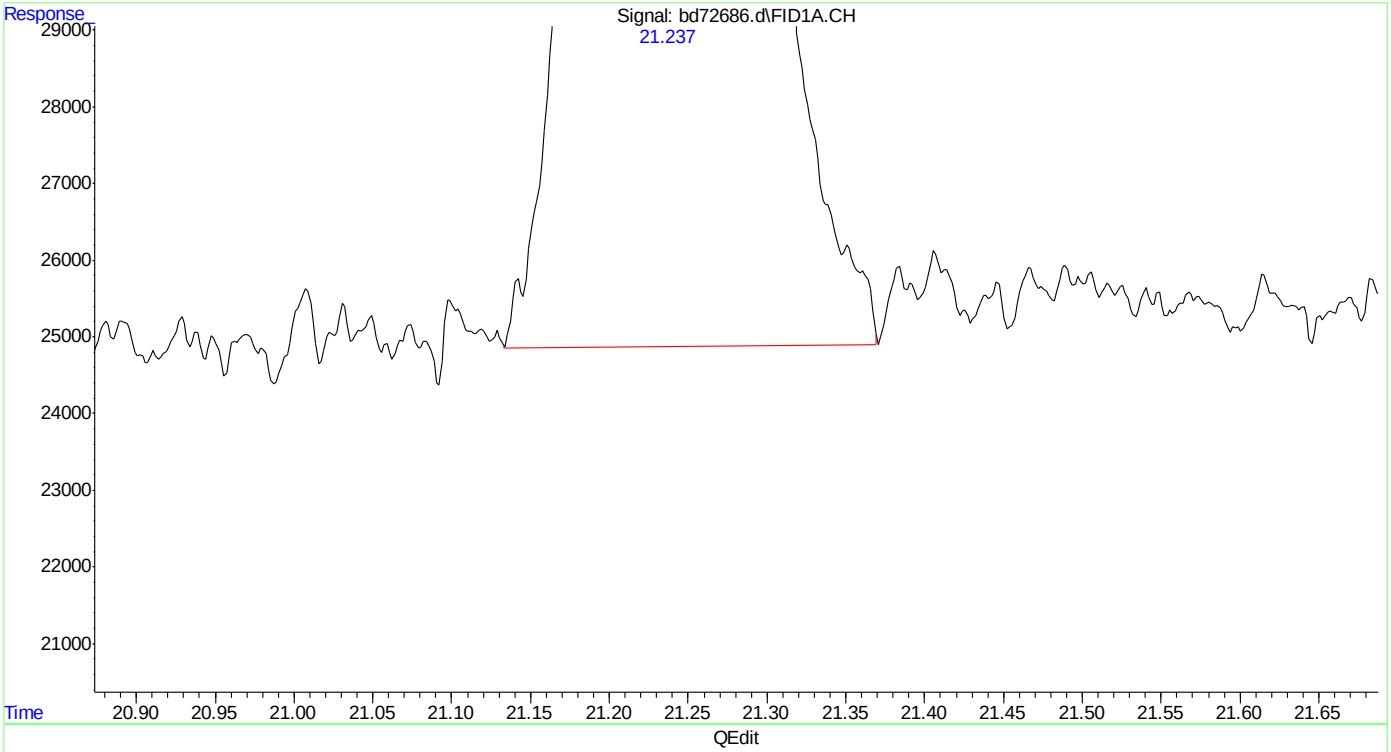
SGS ACCUTEST MC45580

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

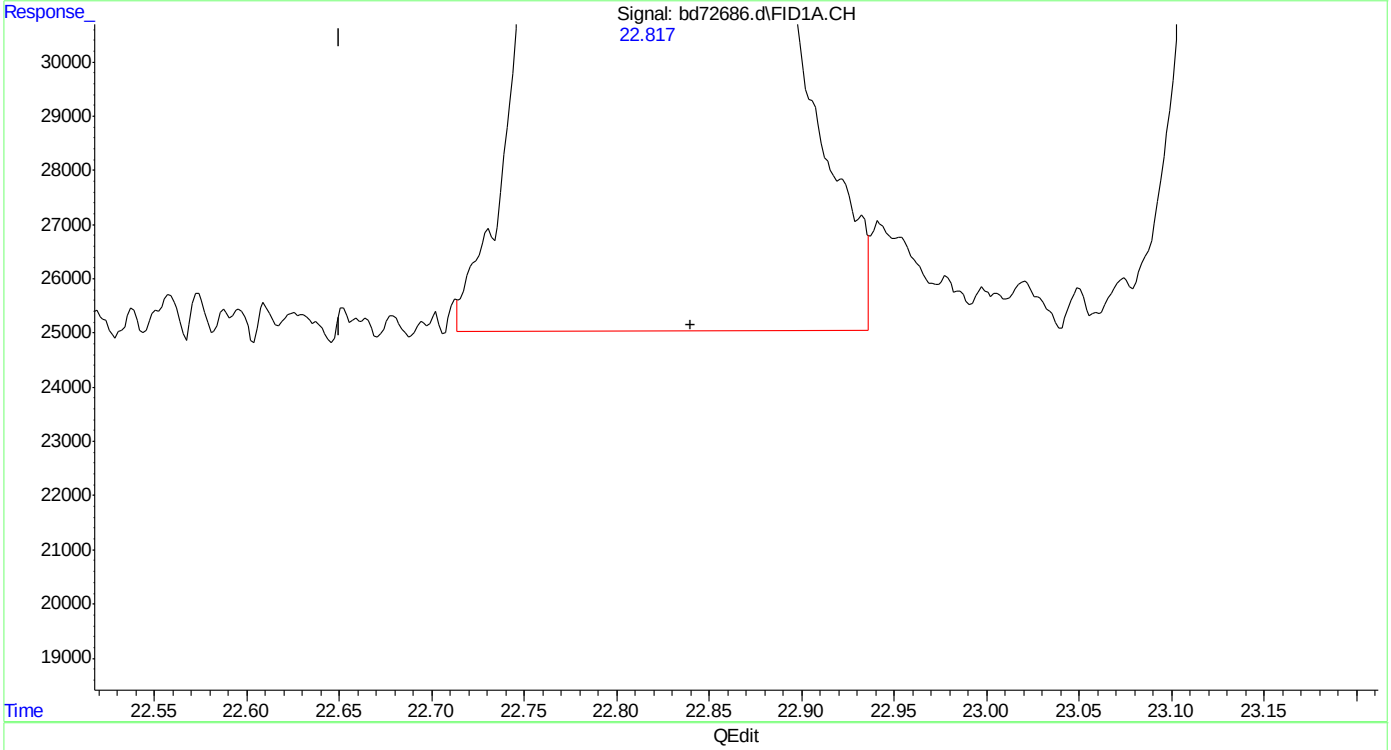
SGS ACCUTEST MC45580

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

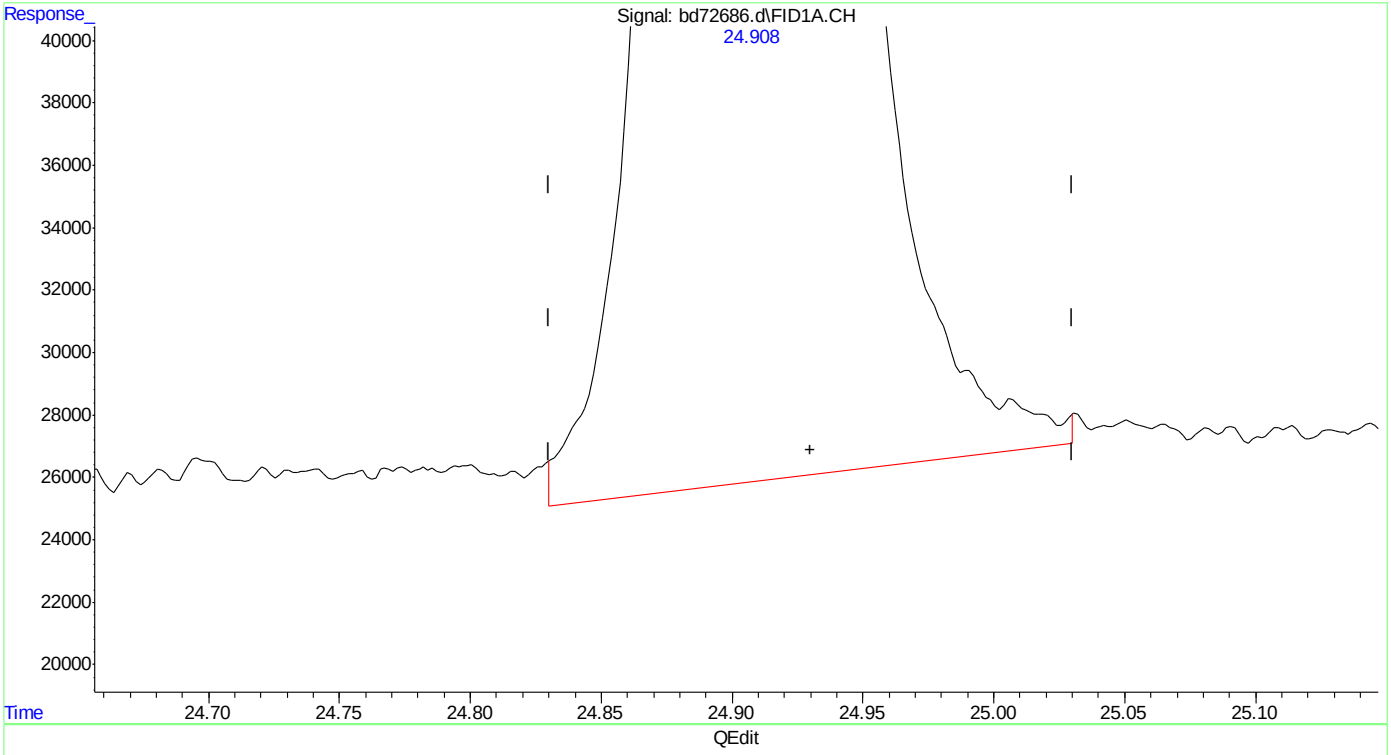
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:17 2016

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 5.719 ppb
response 4916883

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:26 2016

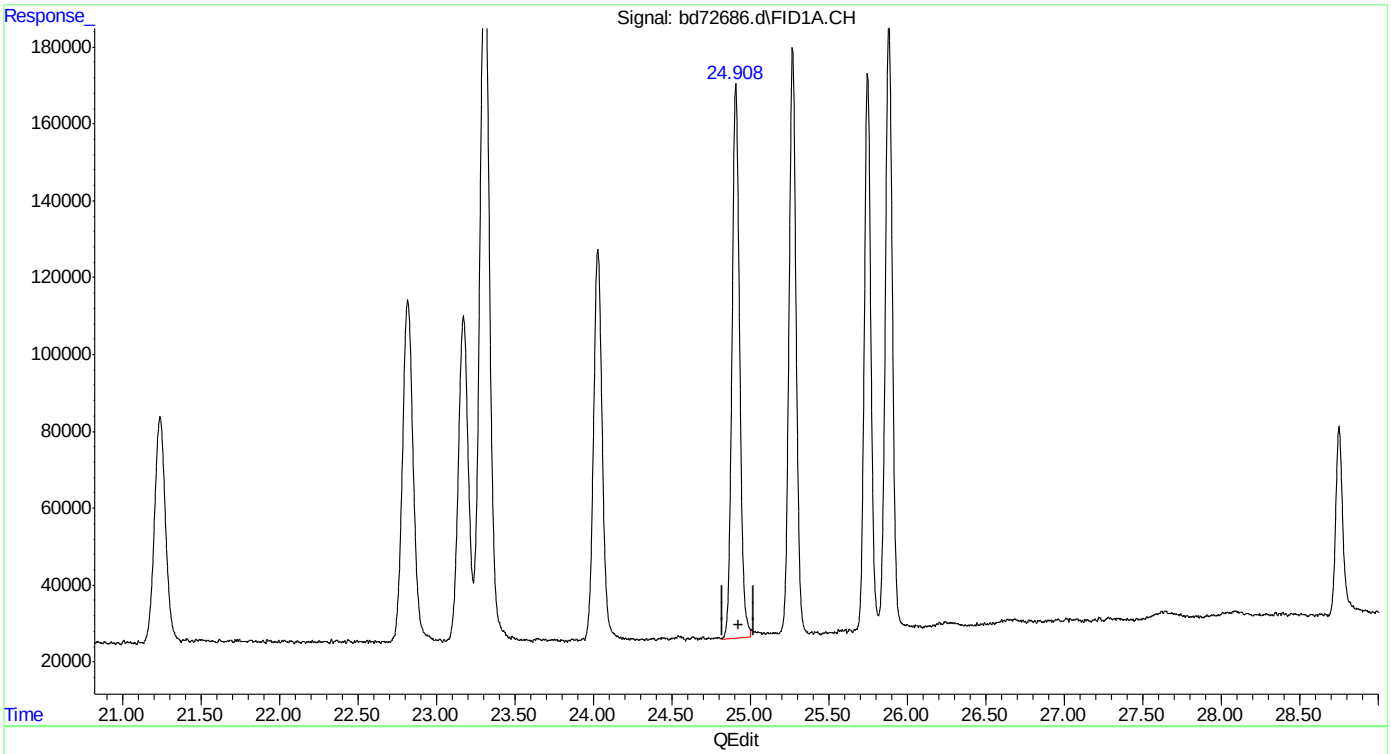
SGS ACCUTEST MC45580

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

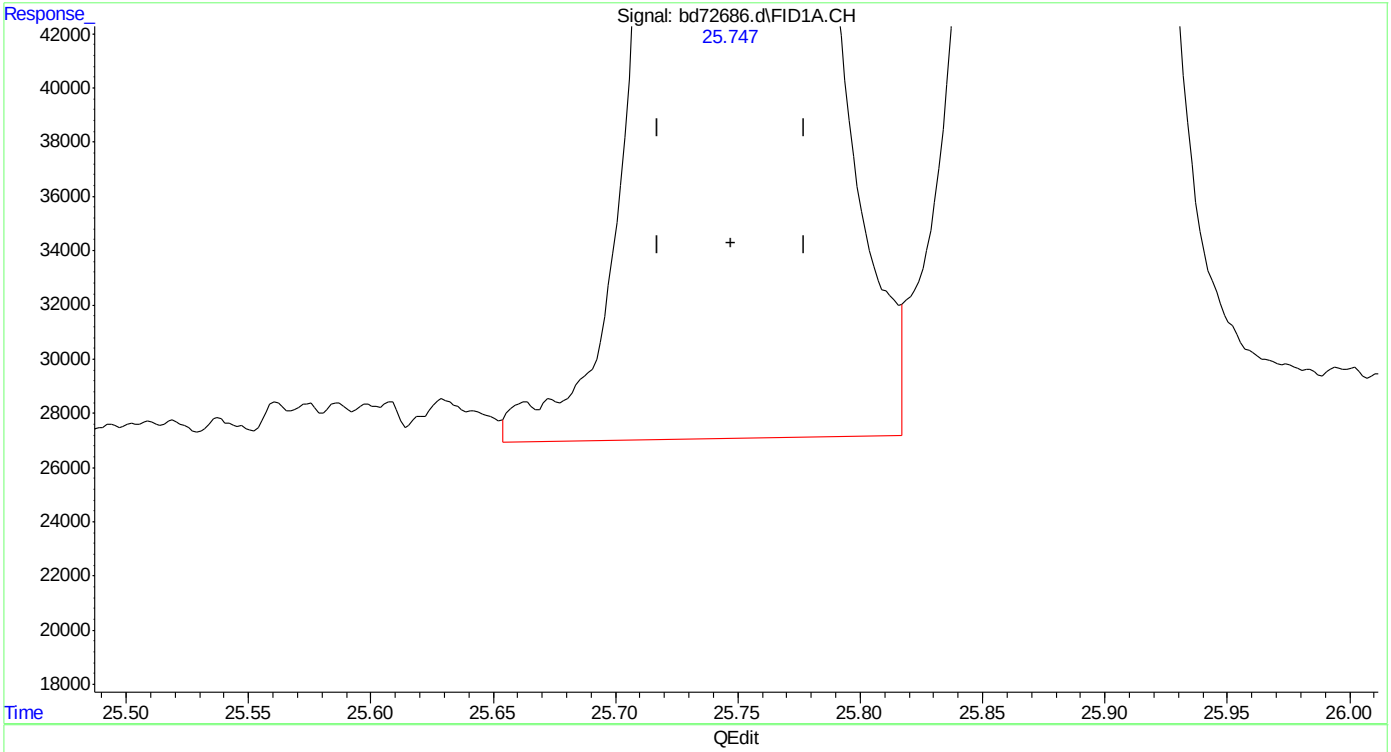
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:07:50 2016

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

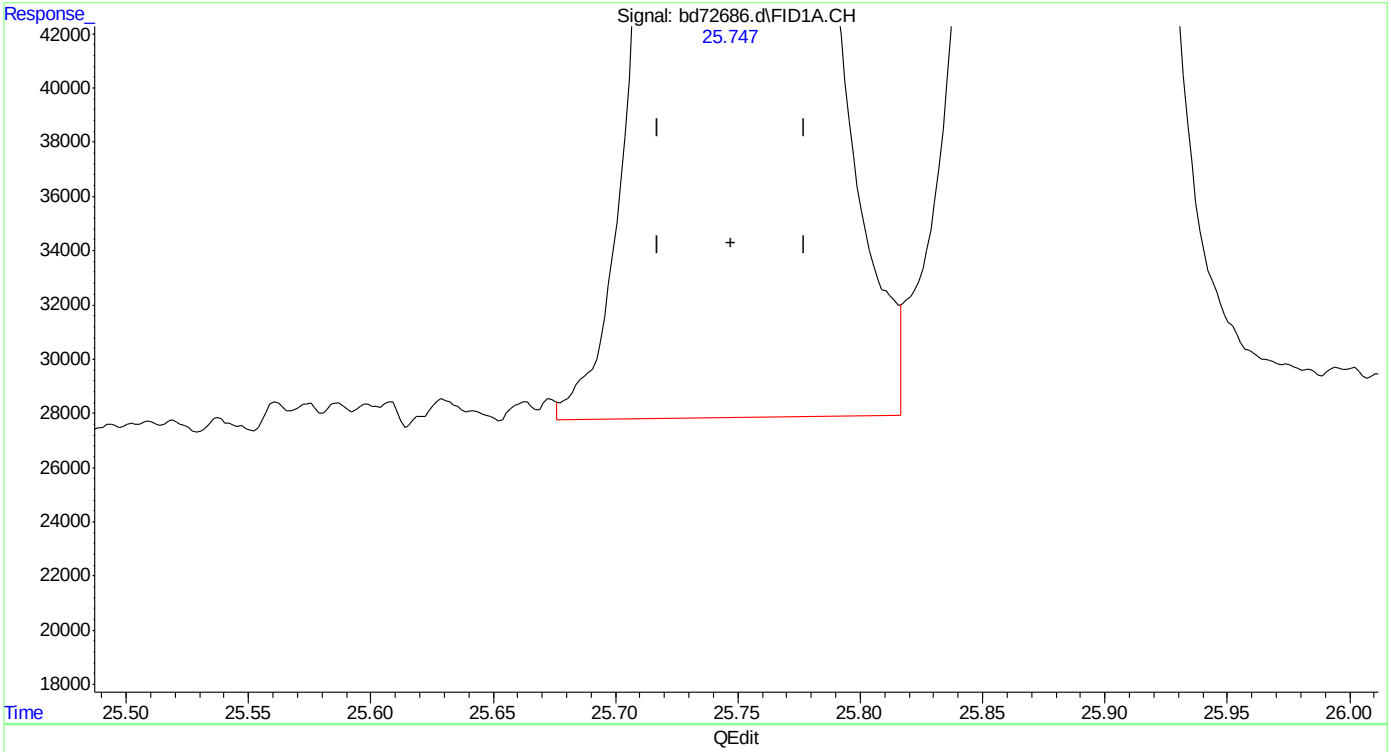
(+) = Expected Retention Time

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

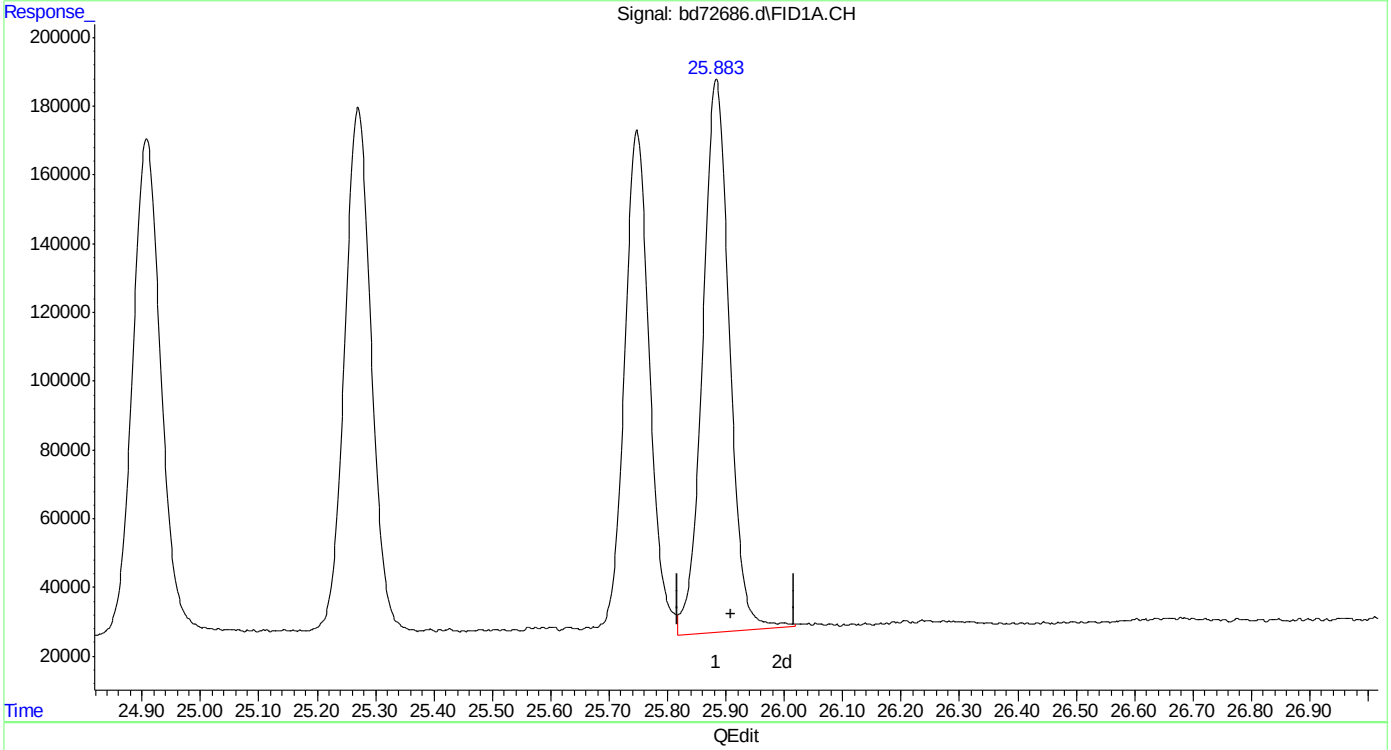
(+) = Expected Retention Time

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

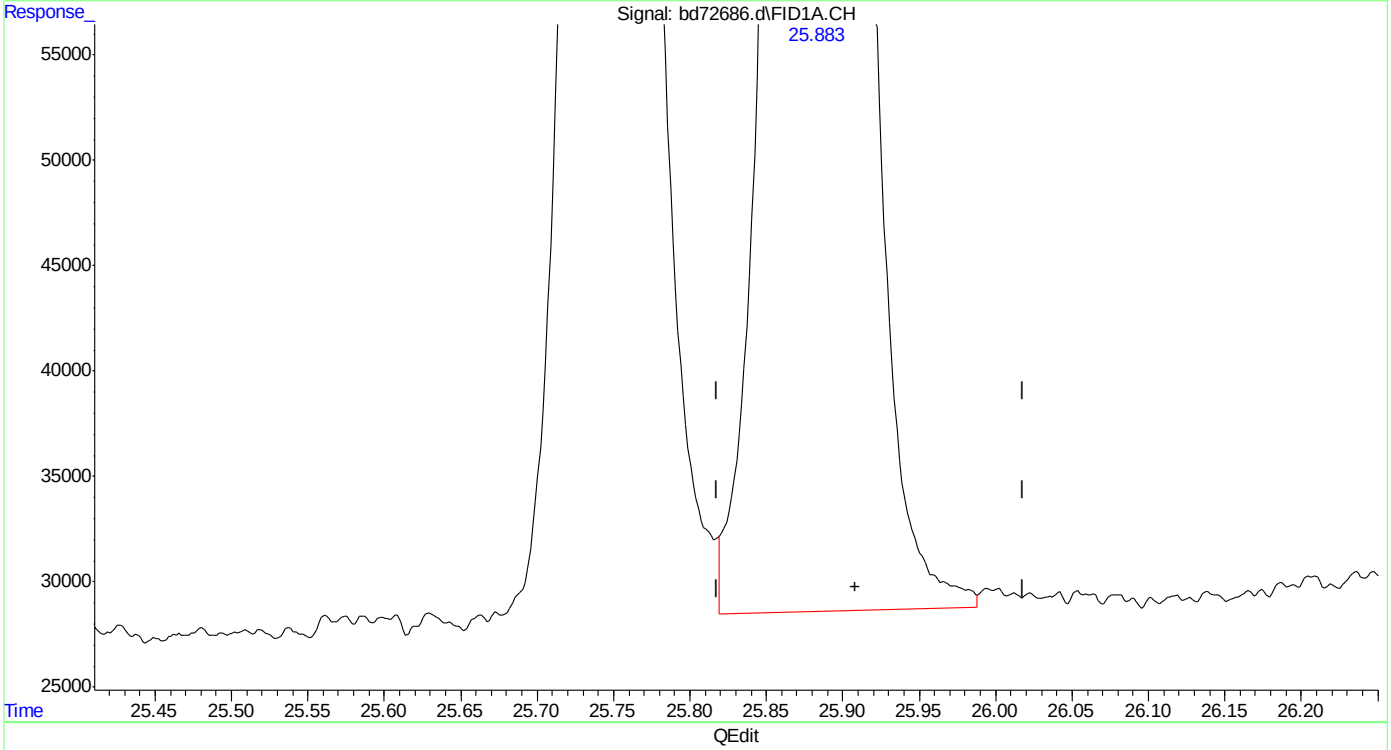
SGS ACCUTEST MC45580

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

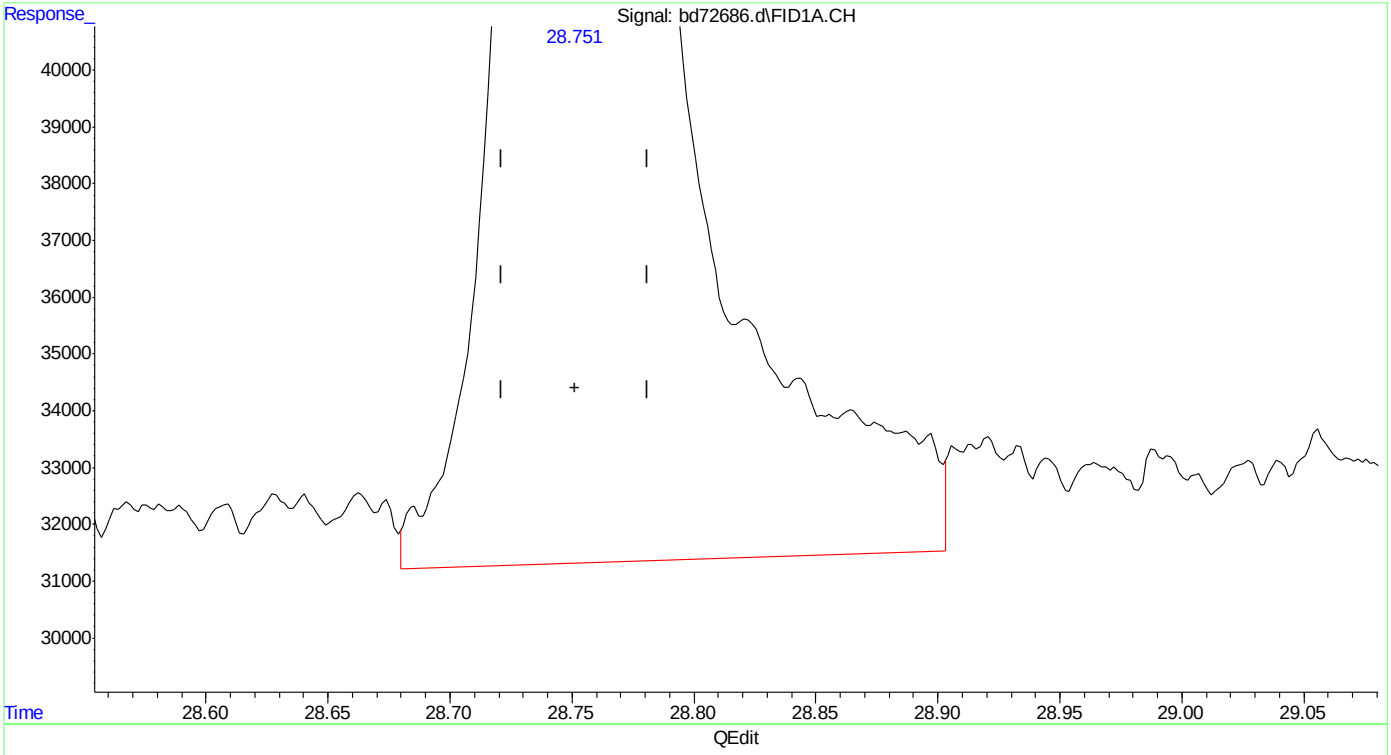
SGS ACCUTEST MC45580

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

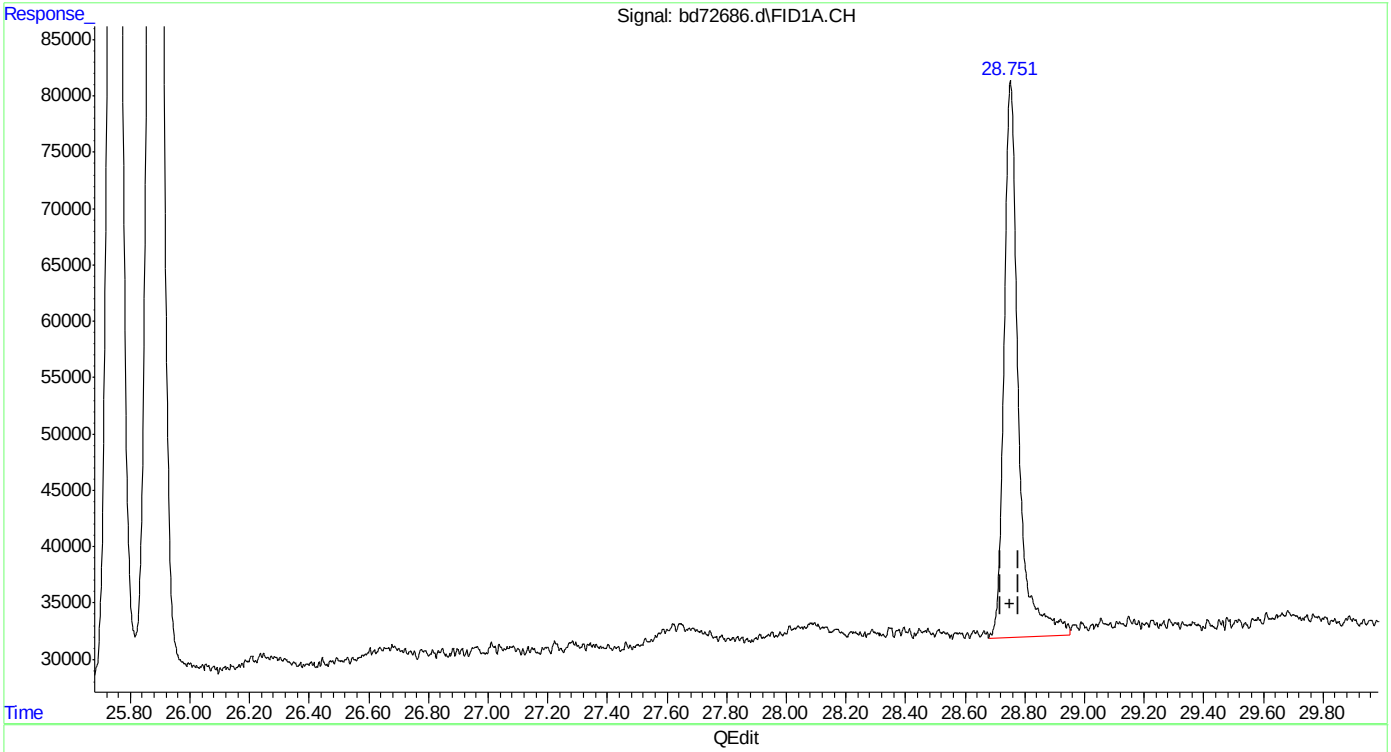
SGS ACCUTEST MC45580

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

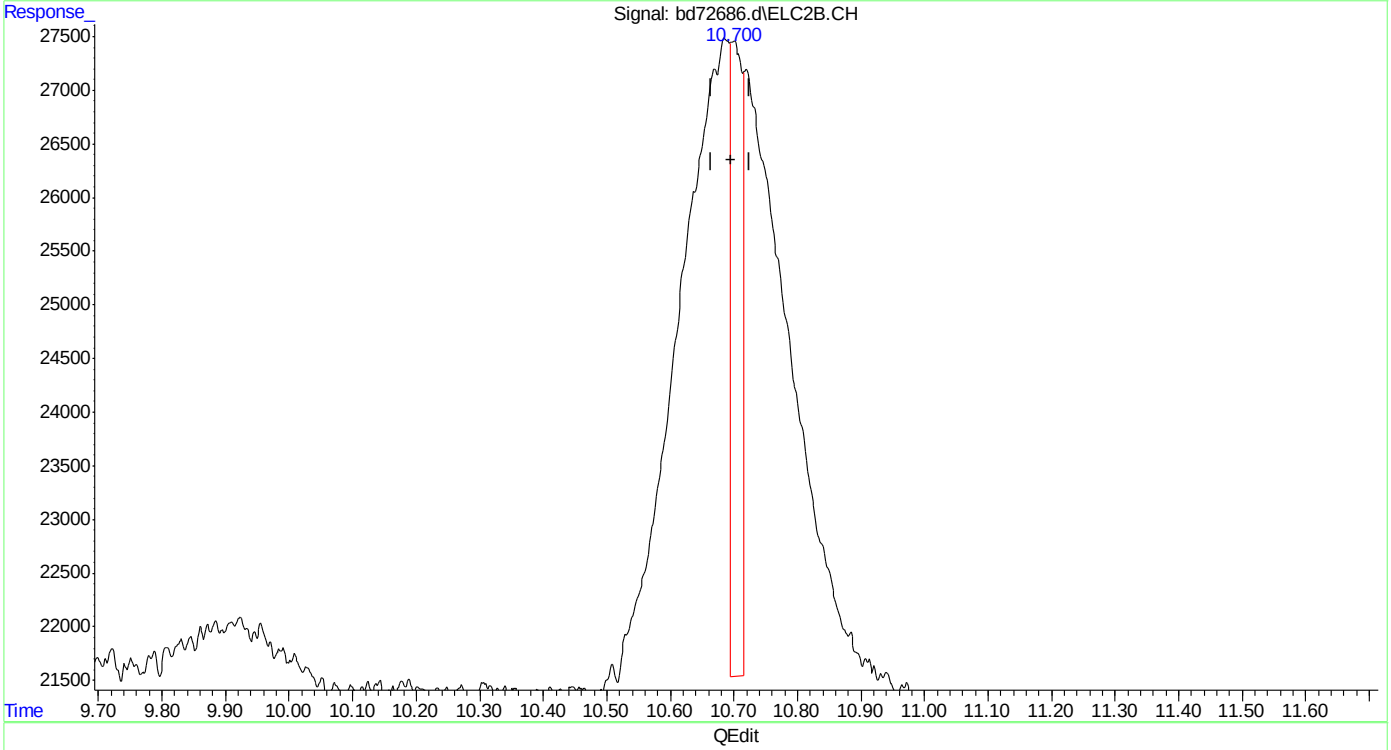
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:37 2016

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 :



(23) mtbe #2
10.700min 0.479 ppb
response 74623

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:08:43 2016

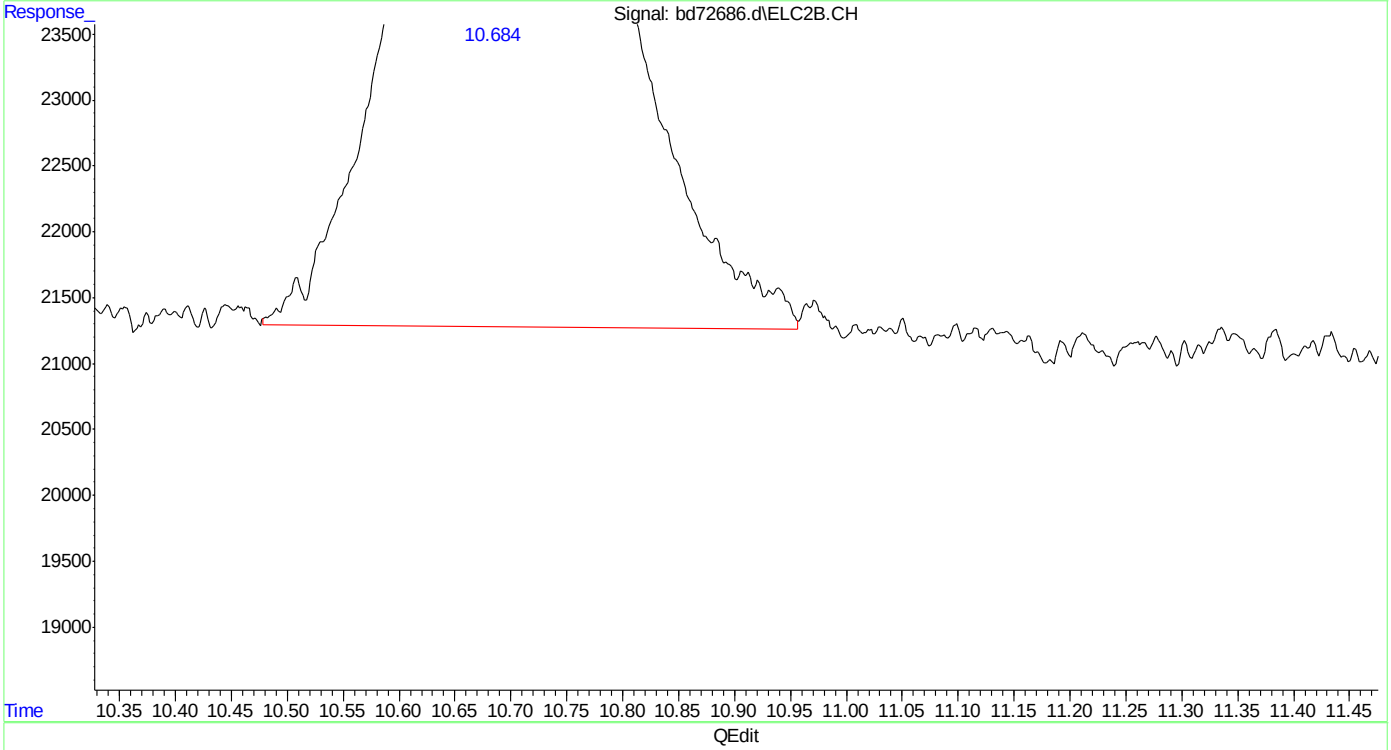
SGS ACCUTEST MC45580

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

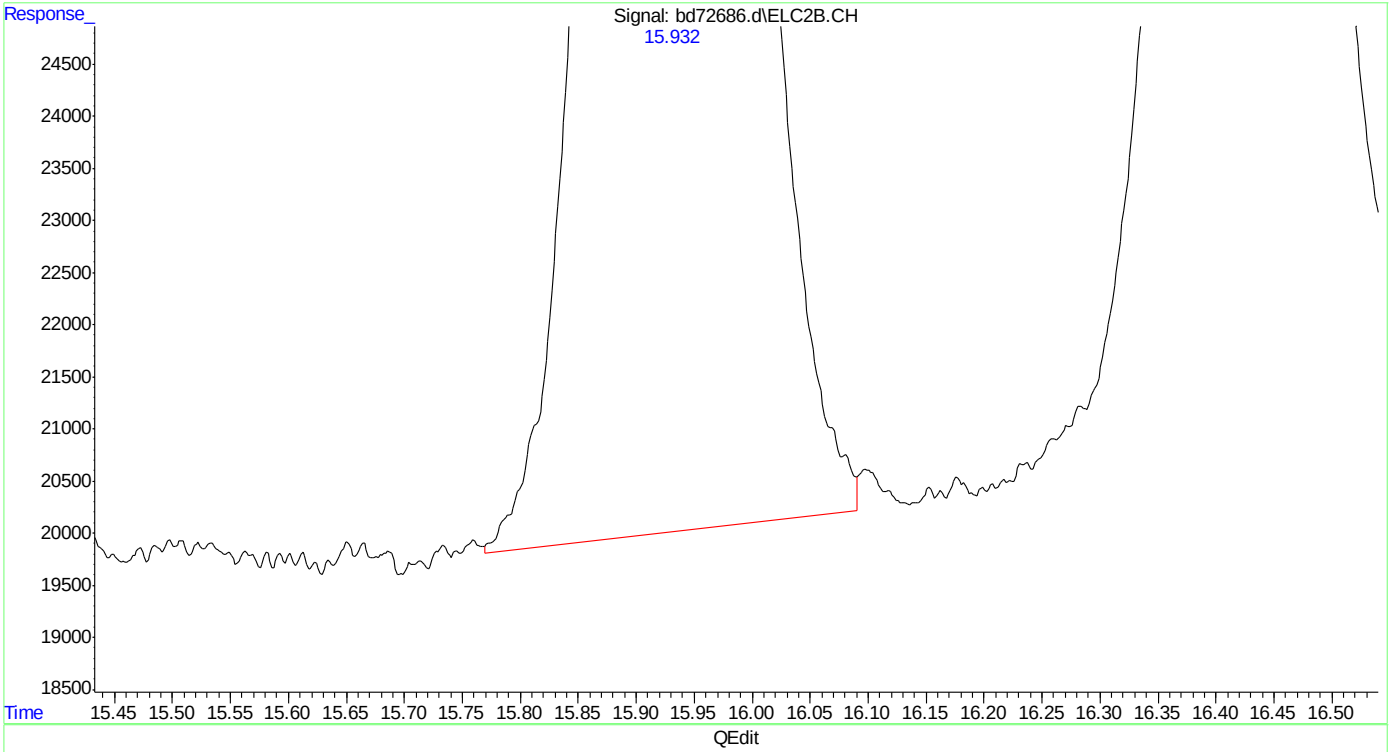
SGS ACCUTEST MC45580

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

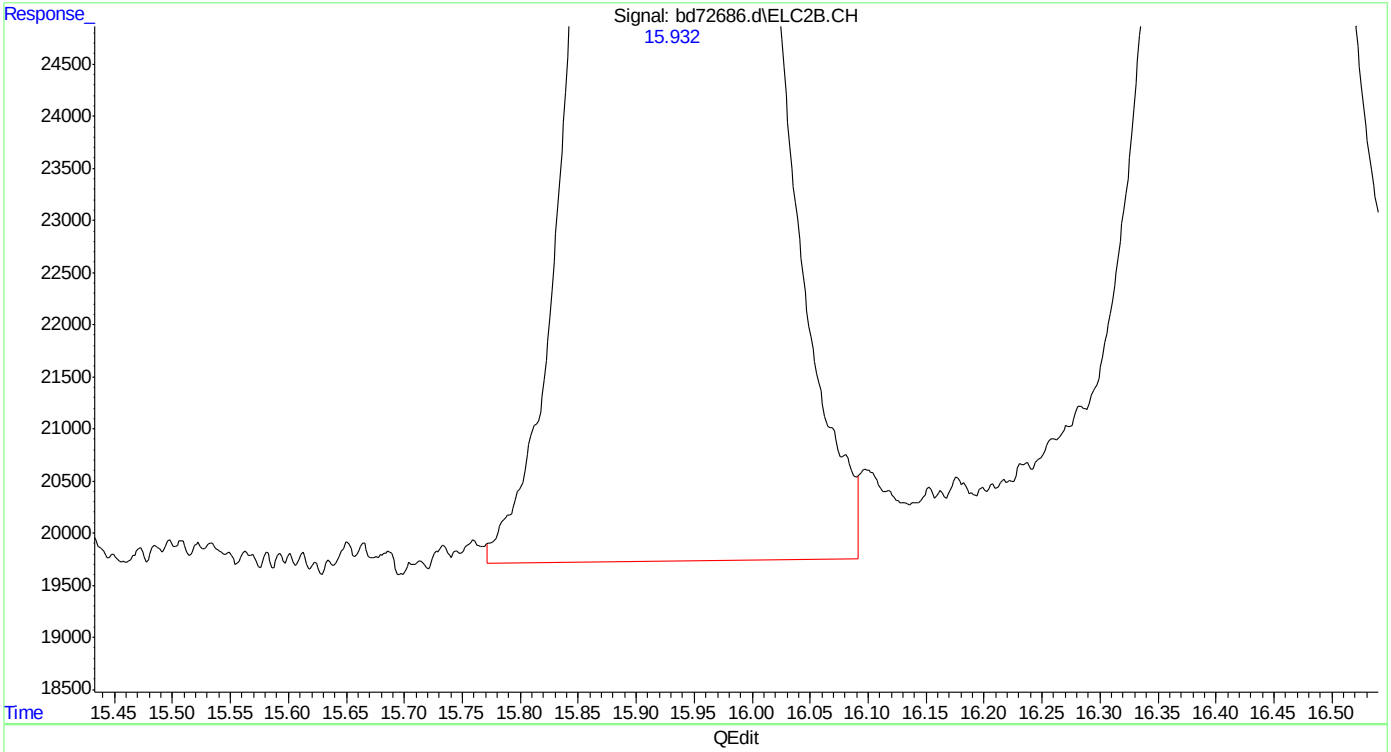
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:05 2016

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

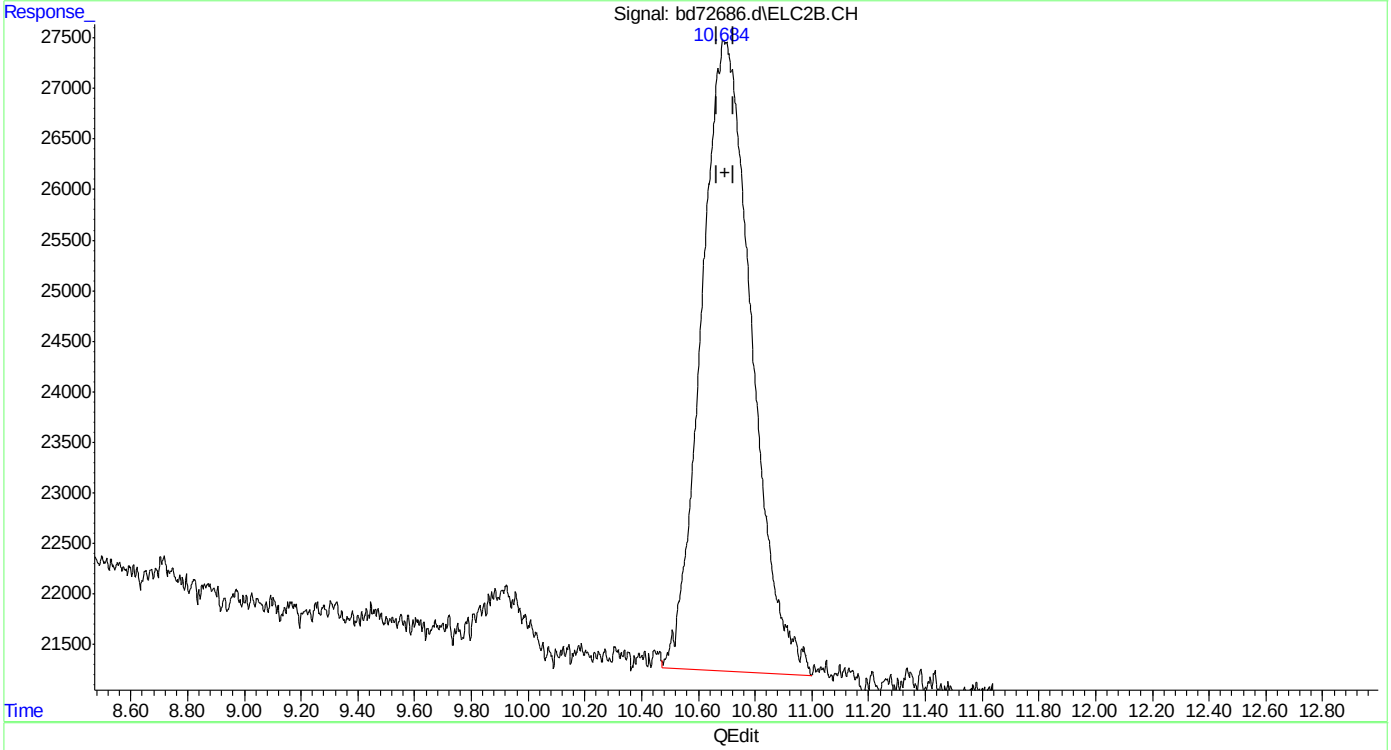
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:14 2016 Page: 1

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

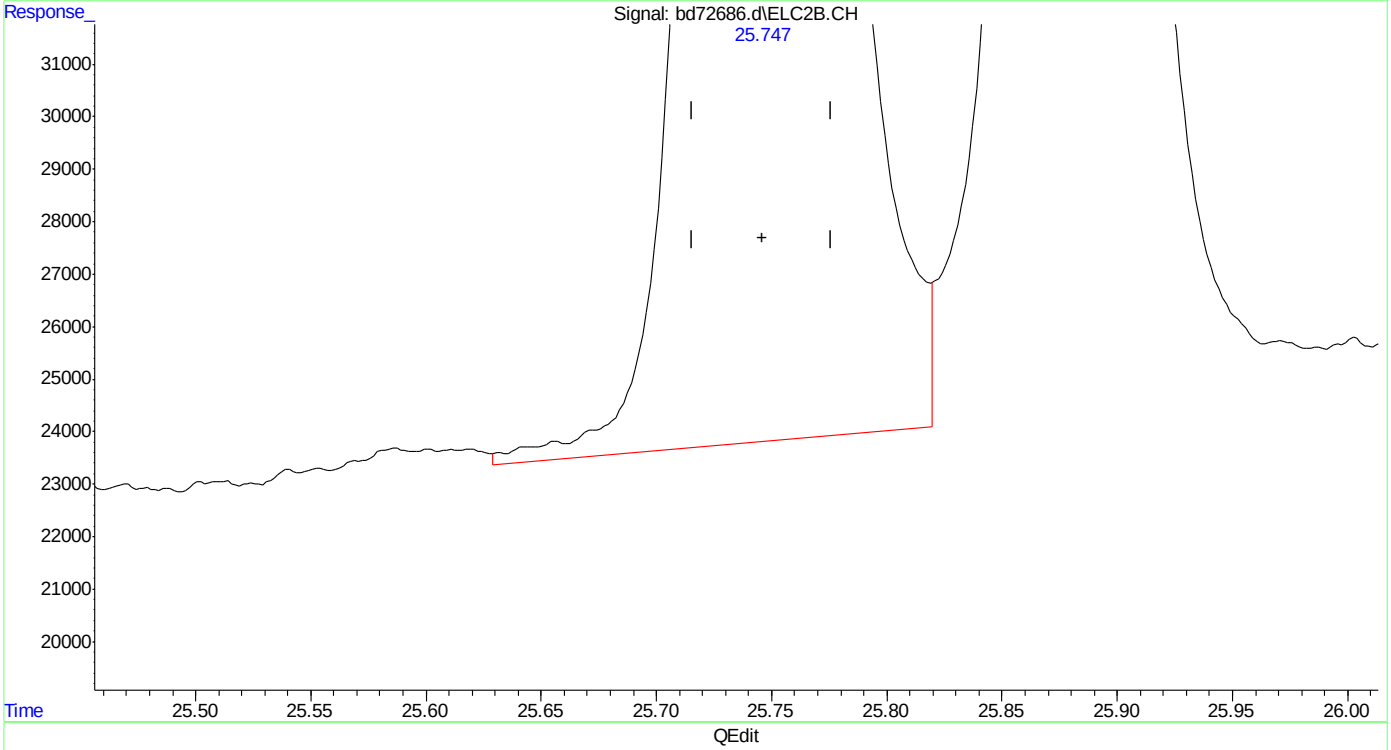
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:09:27 2016 Page: 1

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

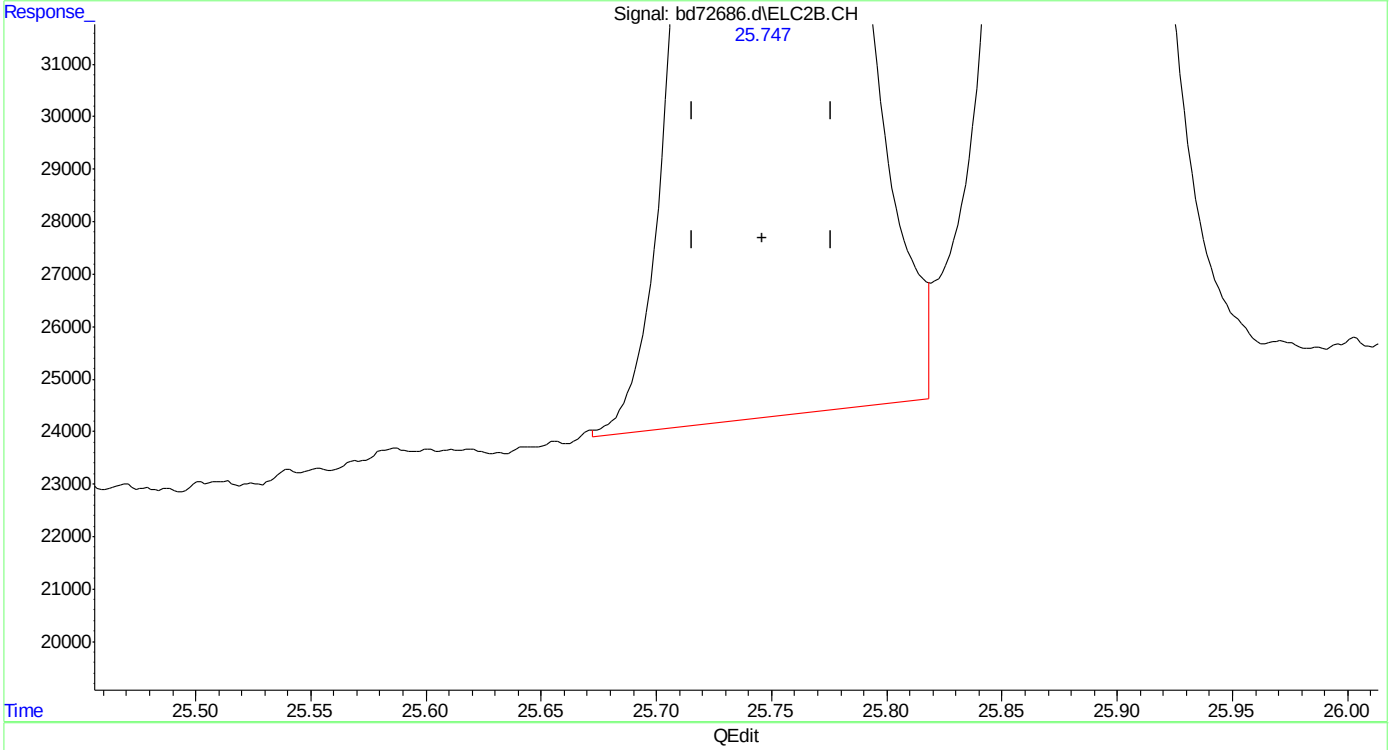
(+) = Expected Retention Time

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

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.

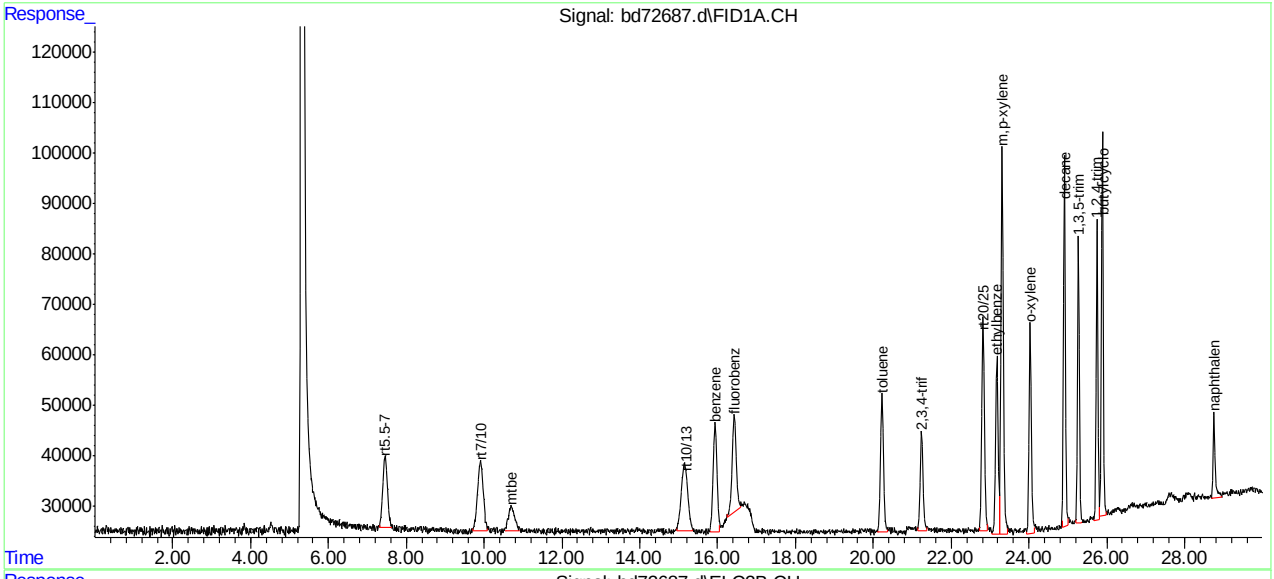
SGS ACCUTEST MC45580

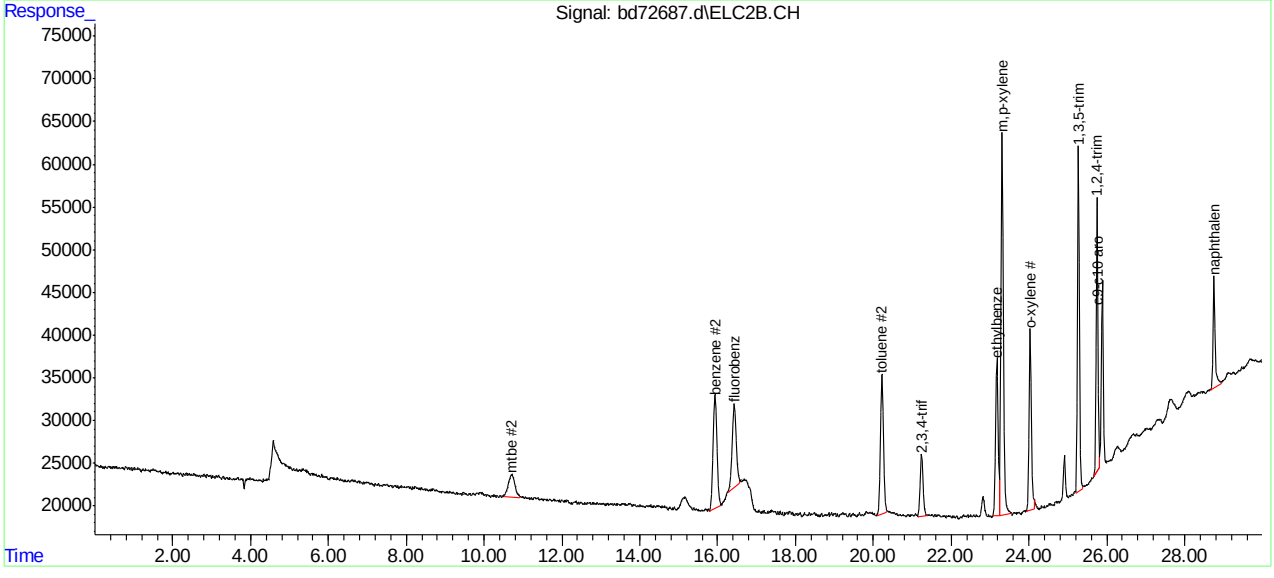
Quantitation Report (QT Reviewed)

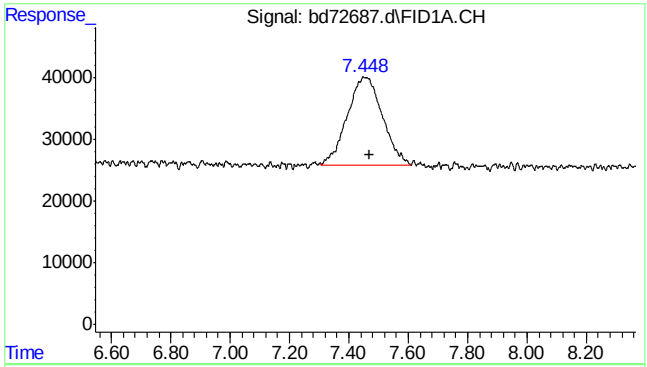
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72687.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 11:58:46
Operator : tonyf
Sample : ic3572-2 (Sig #1); ic3752-2 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

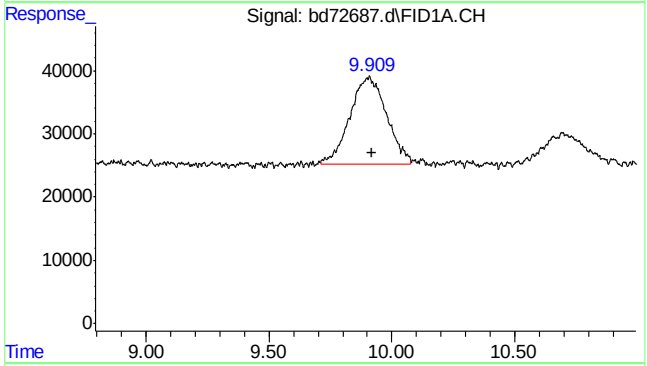






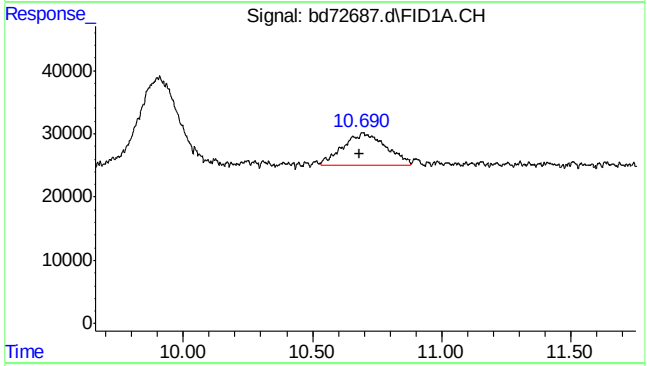
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 1181221
Conc: 2.09 ppb m



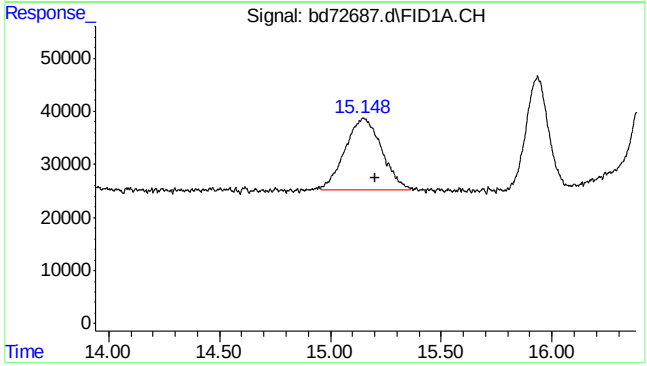
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 1423940
Conc: 2.22 ppb m



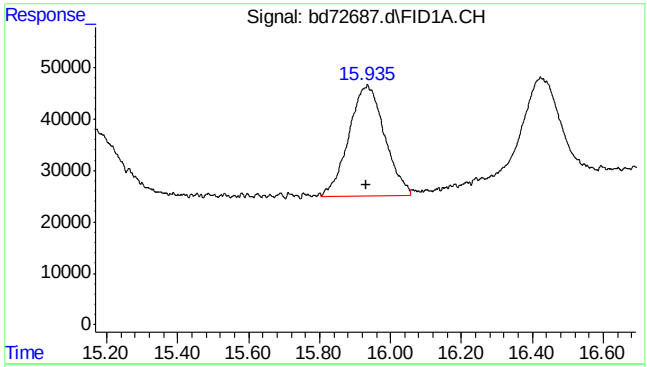
#3 mtbe

R.T.: 10.690 min
Delta R.T.: 0.007 min
Response: 573857
Conc: 1.98 ppb m



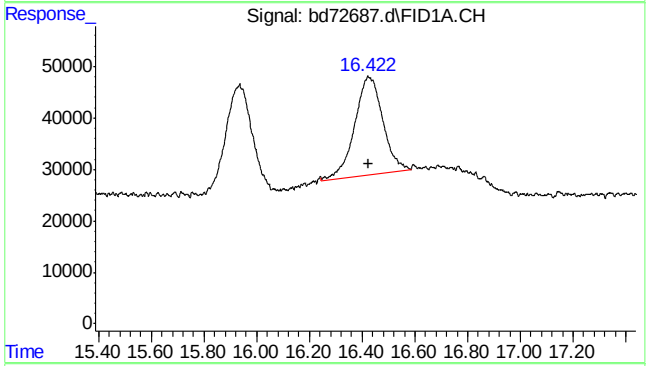
#4 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 1543987
Conc: 2.19 ppb m



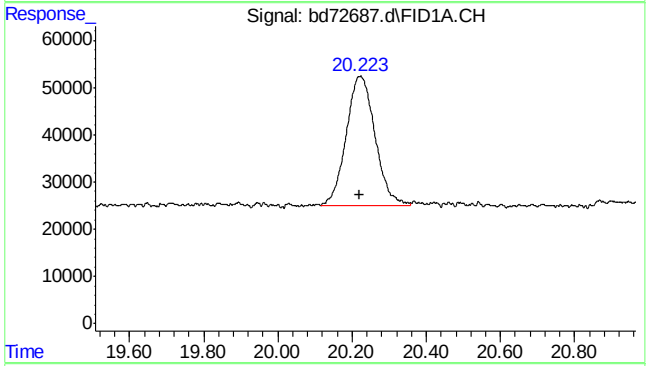
#5 benzene

R.T.: 15.935 min
Delta R.T.: 0.002 min
Response: 1508329
Conc: 1.94 ppb m



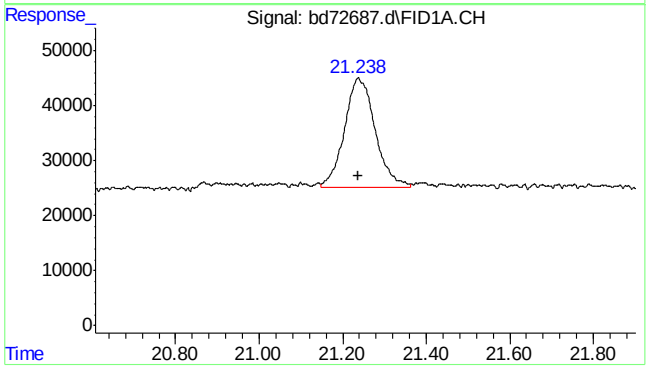
#6 fluorobenzene

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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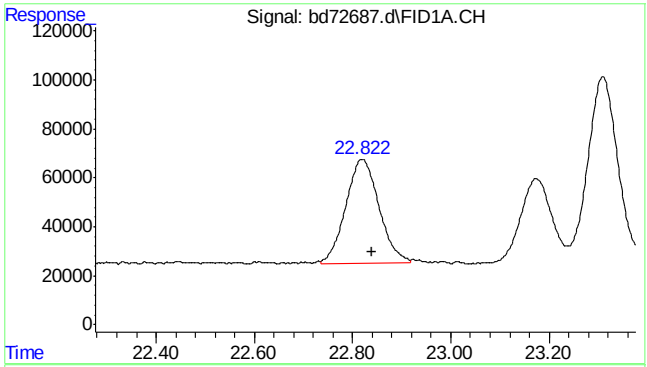
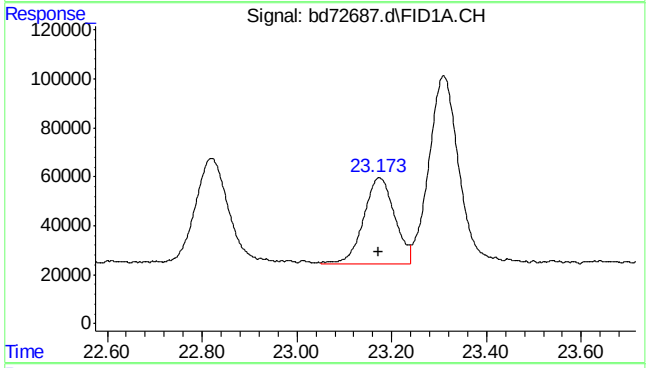


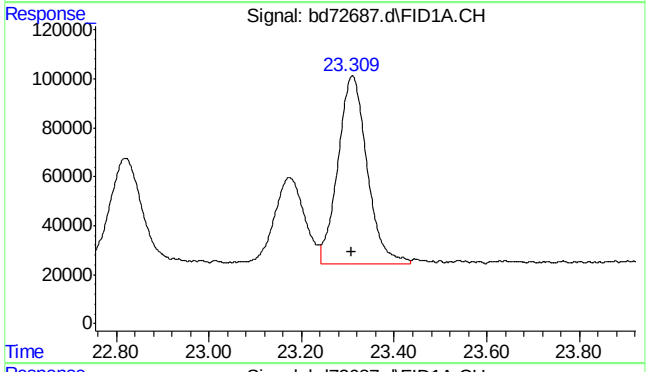
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2002361
Conc: 2.48 ppb m



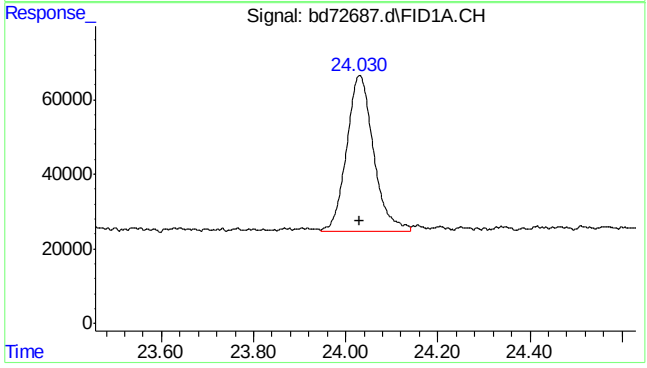
#13 ethylbenzene

R.T.: 23.173 min
Delta R.T.: 0.001 min
Response: 1597064
Conc: 2.03 ppb



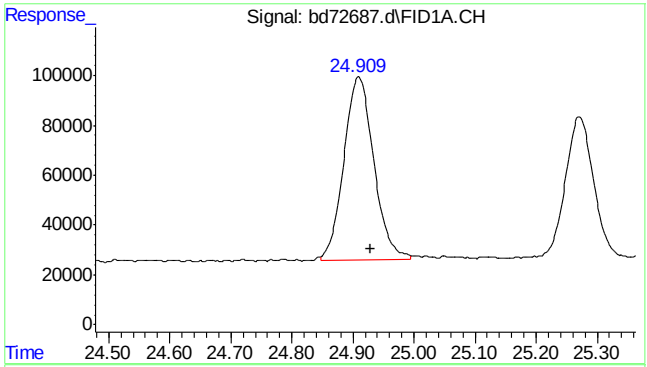
#14 m,p-xylene

R.T.: 23.310 min
Delta R.T.: 0.003 min
Response: 3360397
Conc: 4.11 ppb



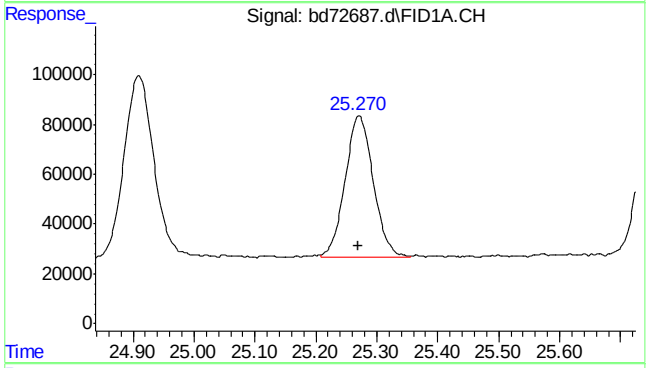
#15 o-xylene

R.T.: 24.031 min
Delta R.T.: 0.002 min
Response: 1696702
Conc: 2.06 ppb



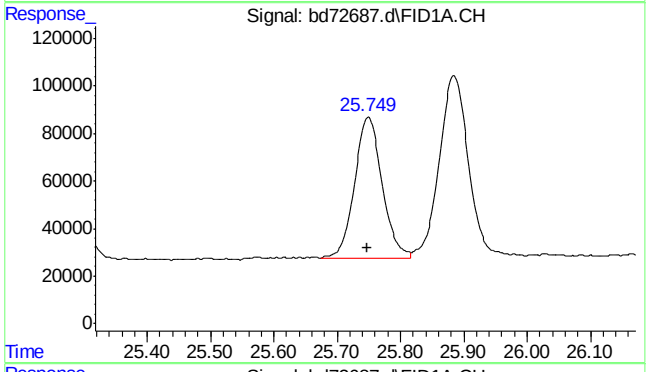
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 2500365
Conc: 2.91 ppb m



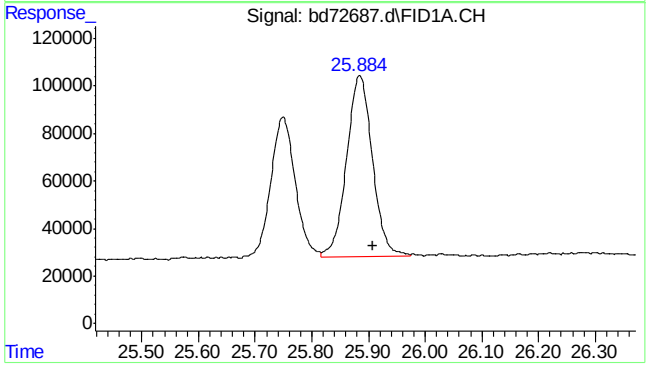
#17 1,3,5-trimethylbenzene

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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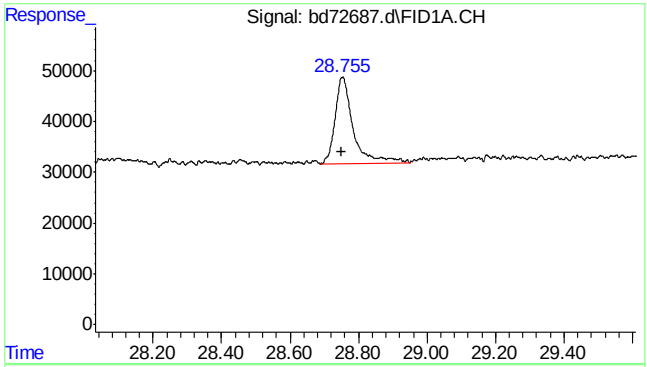
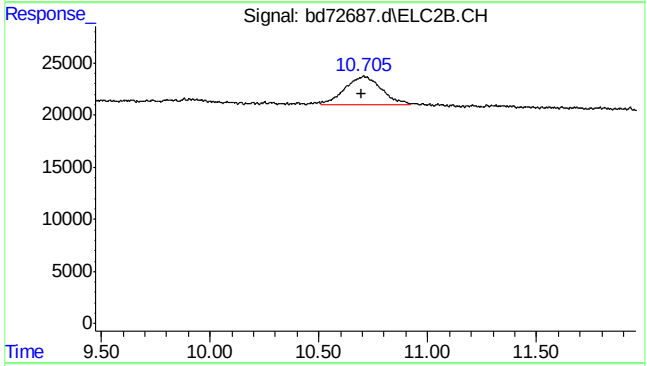


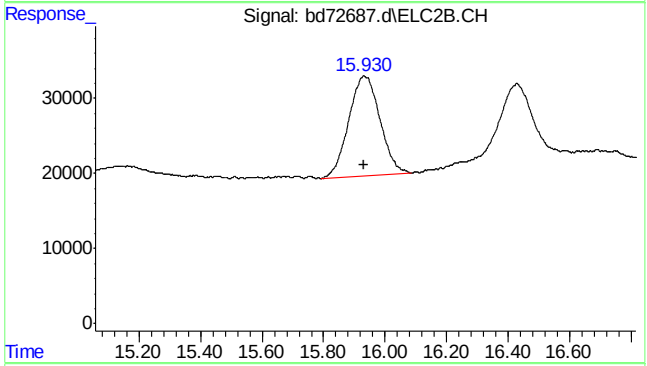
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 633669
Conc: 1.48 ppb m



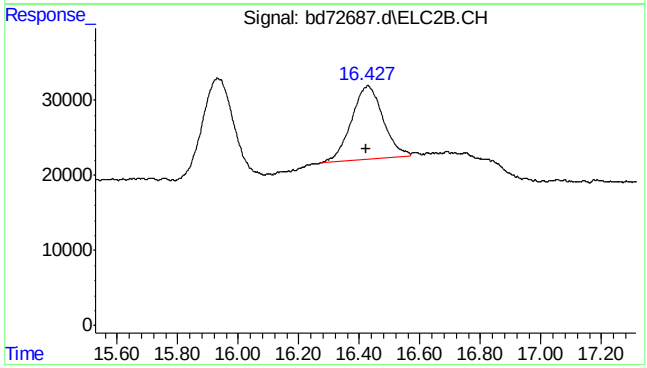
#23 mtbe #2

R.T.: 10.705 min
Delta R.T.: 0.009 min
Response: 319987
Conc: 2.04 ppb m



#24 benzene #2

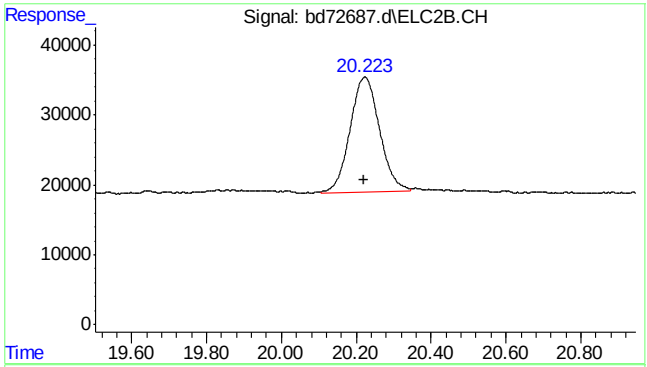
R.T.: 15.931 min
Delta R.T.: -0.001 min
Response: 943892
Conc: 2.03 ppb



#25 fluorobenzene #2

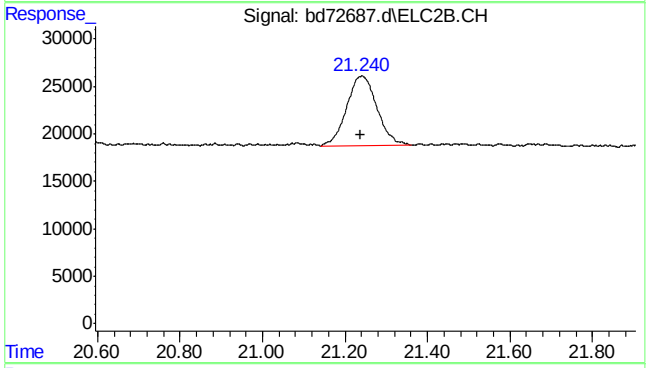
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 710788
Conc: 2.00 ppb m

SGS ACCUTEST MC45580



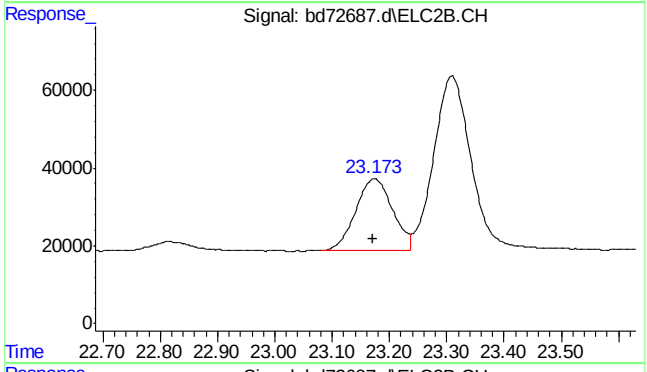
#26 toluene #2

R.T.: 20.223 min
Delta R.T.: 0.002 min
Response: 898559
Conc: 2.10 ppb



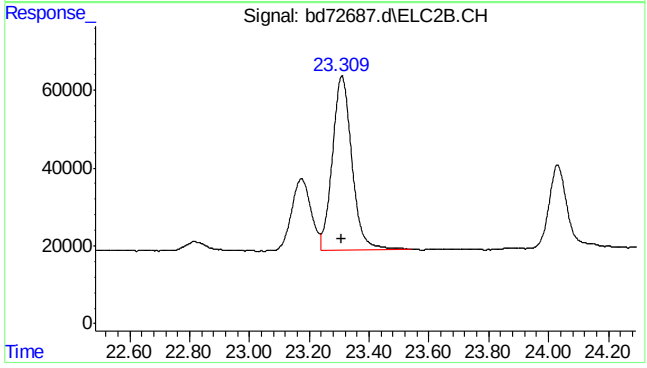
#27 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 375383
Conc: 1.82 ppb



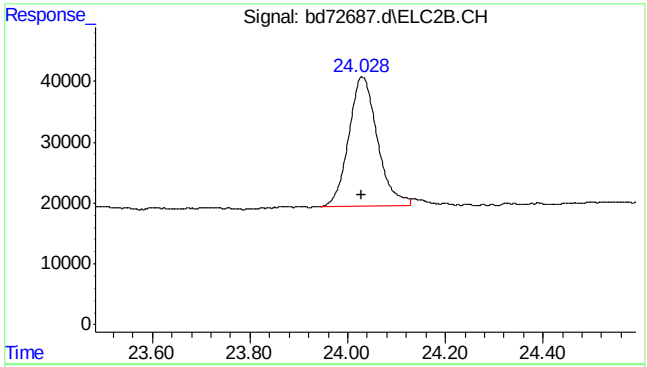
#28 ethylbenzene #2

R.T.: 23.174 min
Delta R.T.: 0.002 min
Response: 826337
Conc: 2.11 ppb



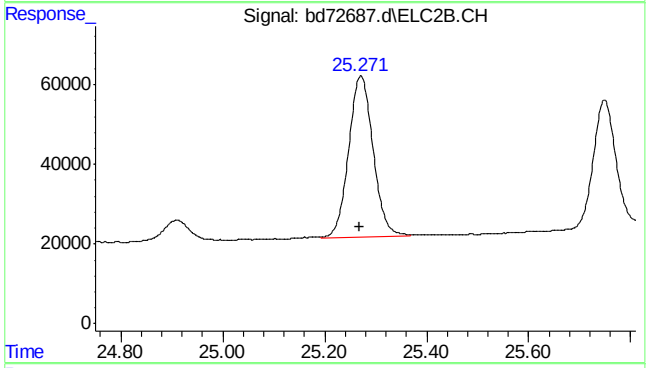
#29 m,p-xylene #2

R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 2027328
Conc: 4.25 ppb



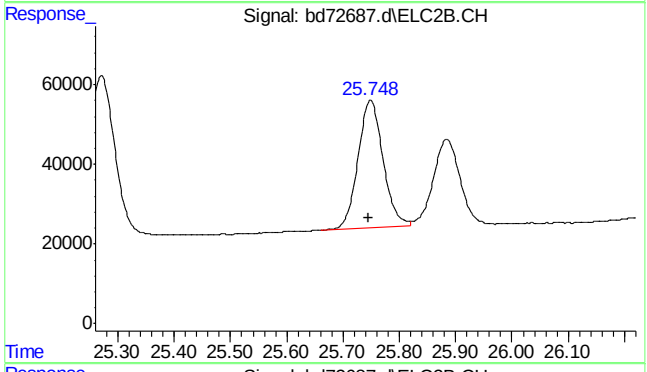
#30 o-xylene #2

R.T.: 24.028 min
Delta R.T.: 0.000 min
Response: 873175
Conc: 2.14 ppb m



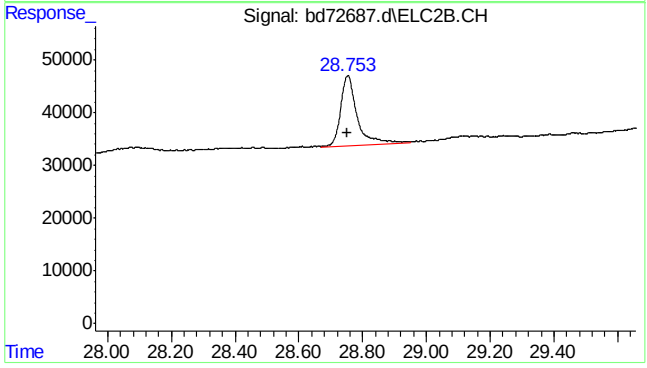
#31 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 1355890
Conc: 2.07 ppb



#32 1,2,4-trimethylbenzene #2

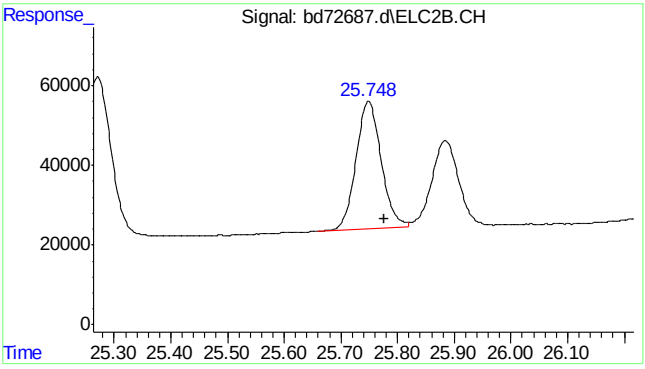
R.T.: 25.748 min
Delta R.T.: 0.002 min
Response: 998600
Conc: 2.17 ppb m



#33 naphthalene #2

R.T.: 28.753 min
Delta R.T.: 0.003 min
Response: 472807
Conc: 1.54 ppb m

SGS ACCUTEST MC45580



#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

7.5.8

7

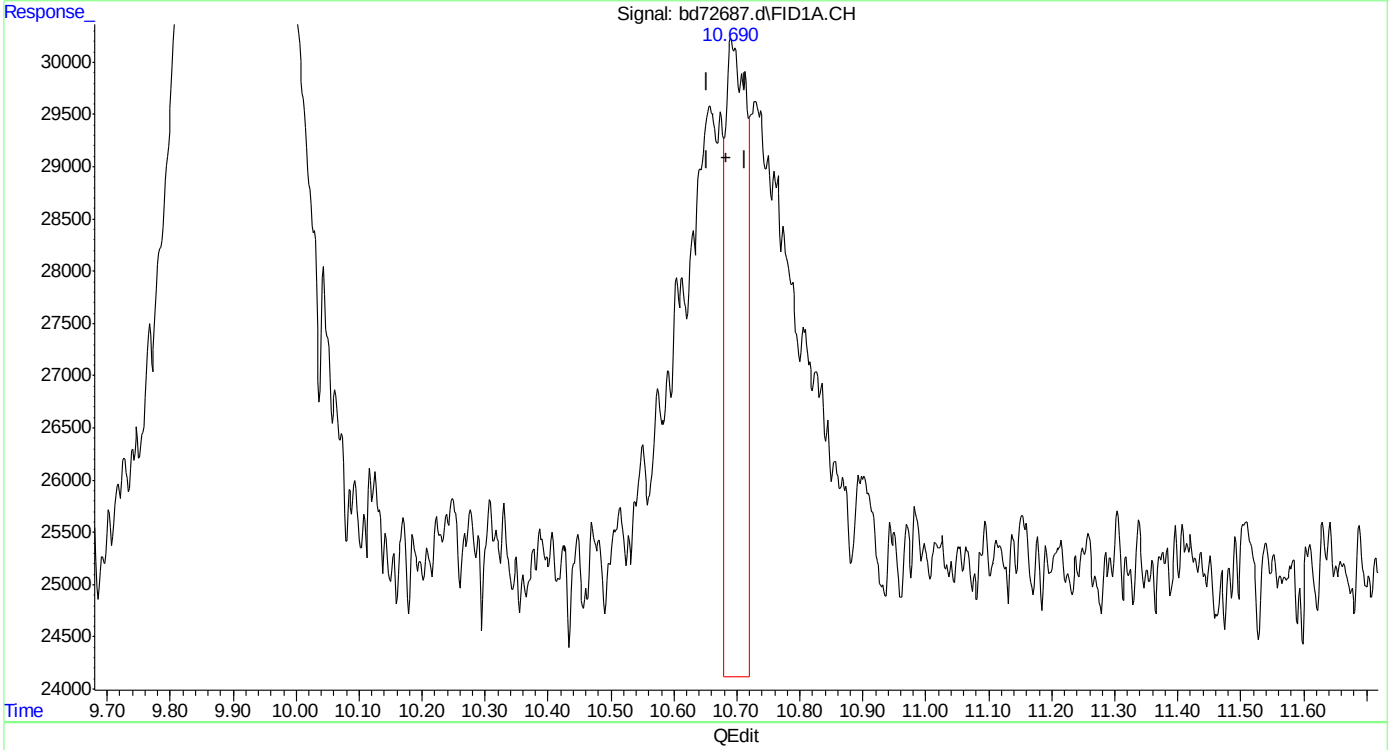
SGS ACCUTEST MC45580

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

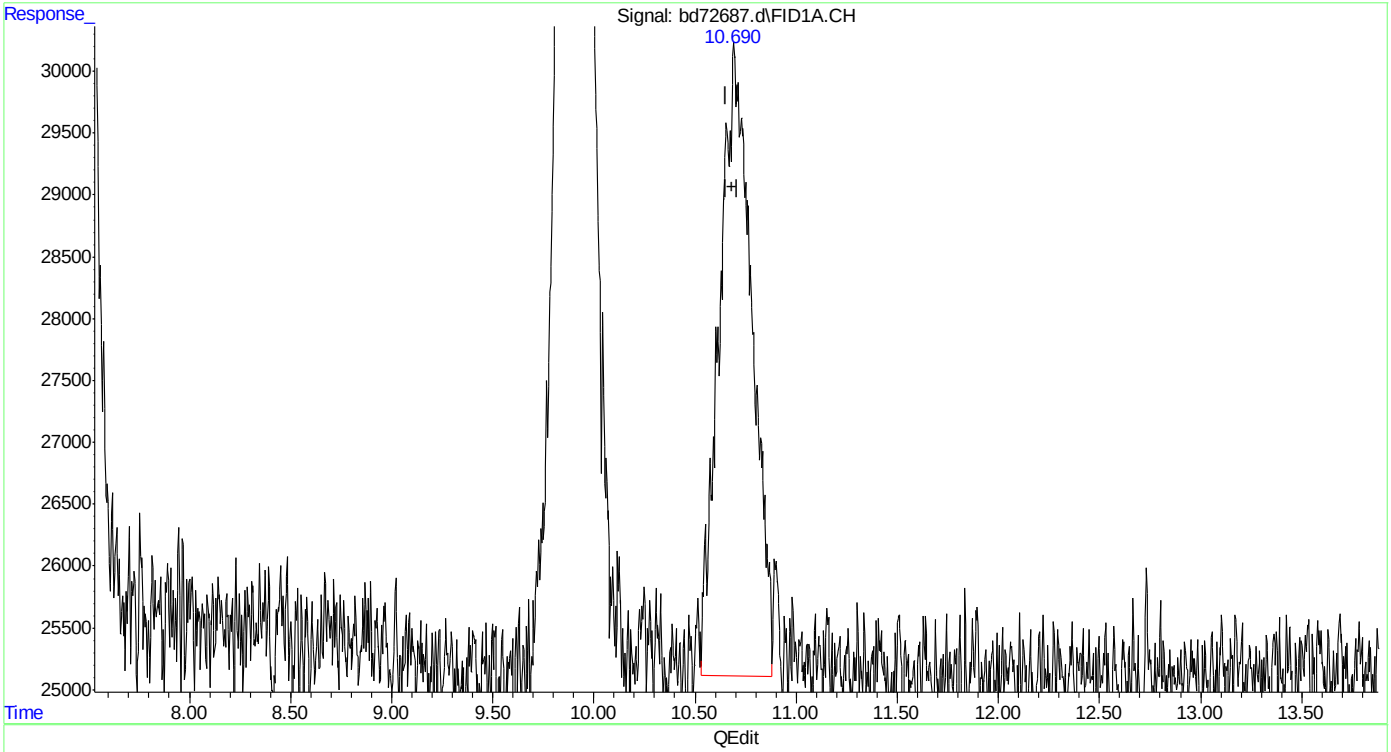
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:08 2016

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

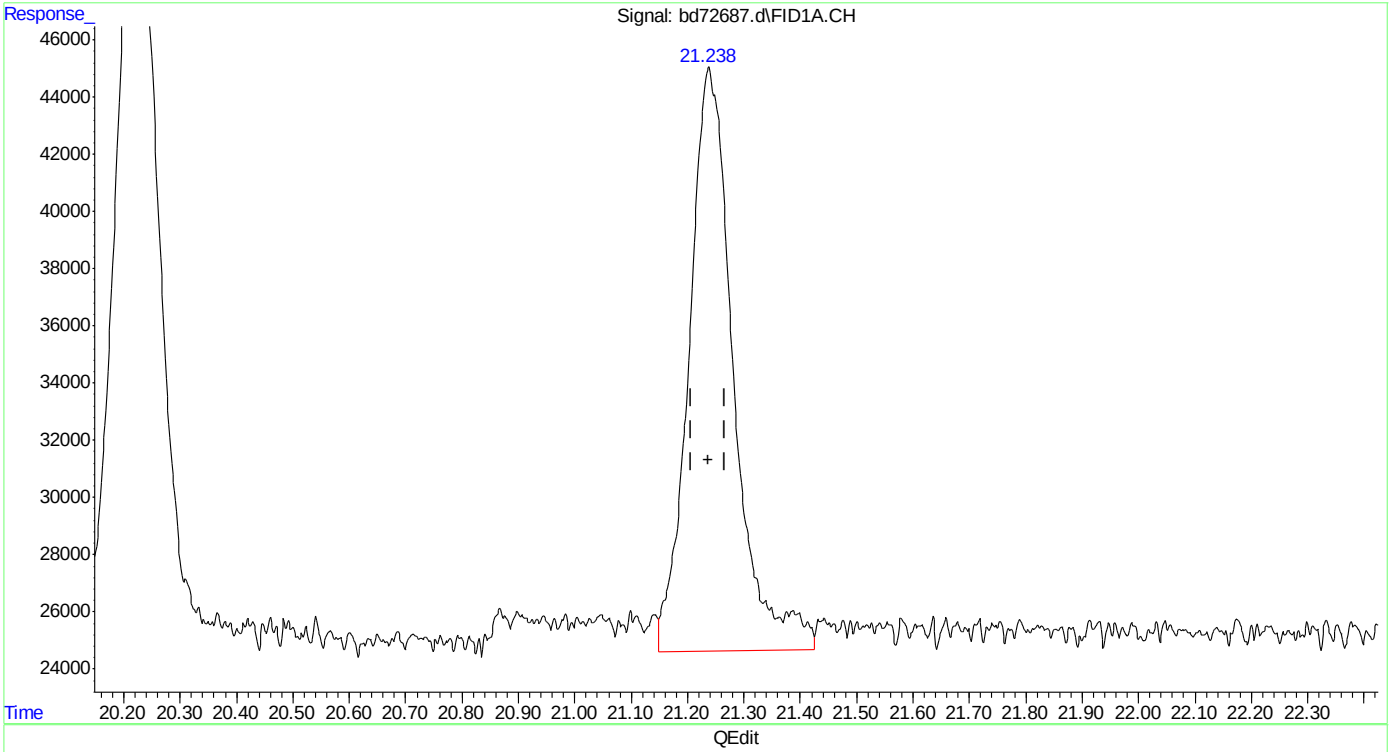
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:42:22 2016

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 :



(9) 2,3,4-trifluorotoluene (s)
21.238min 1.972 ppb
response 1122116

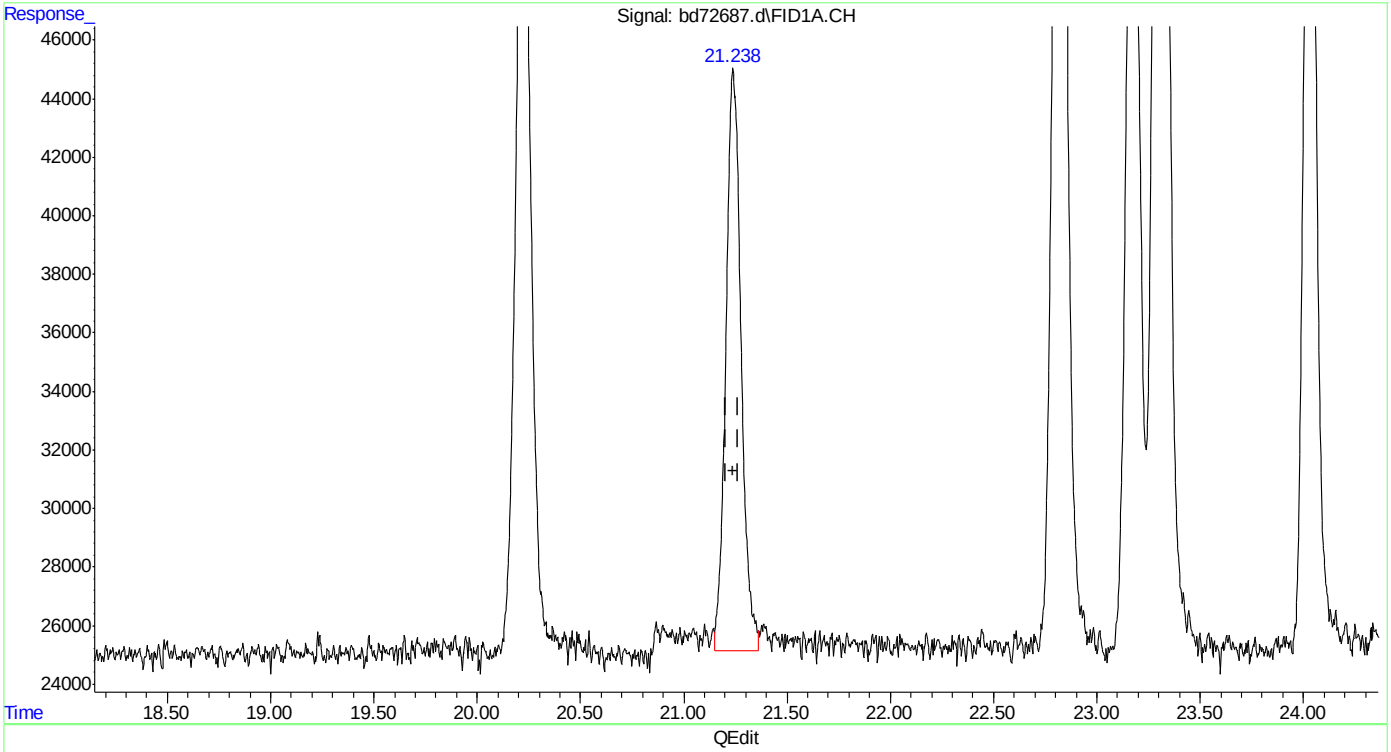
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:43:28 2016

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

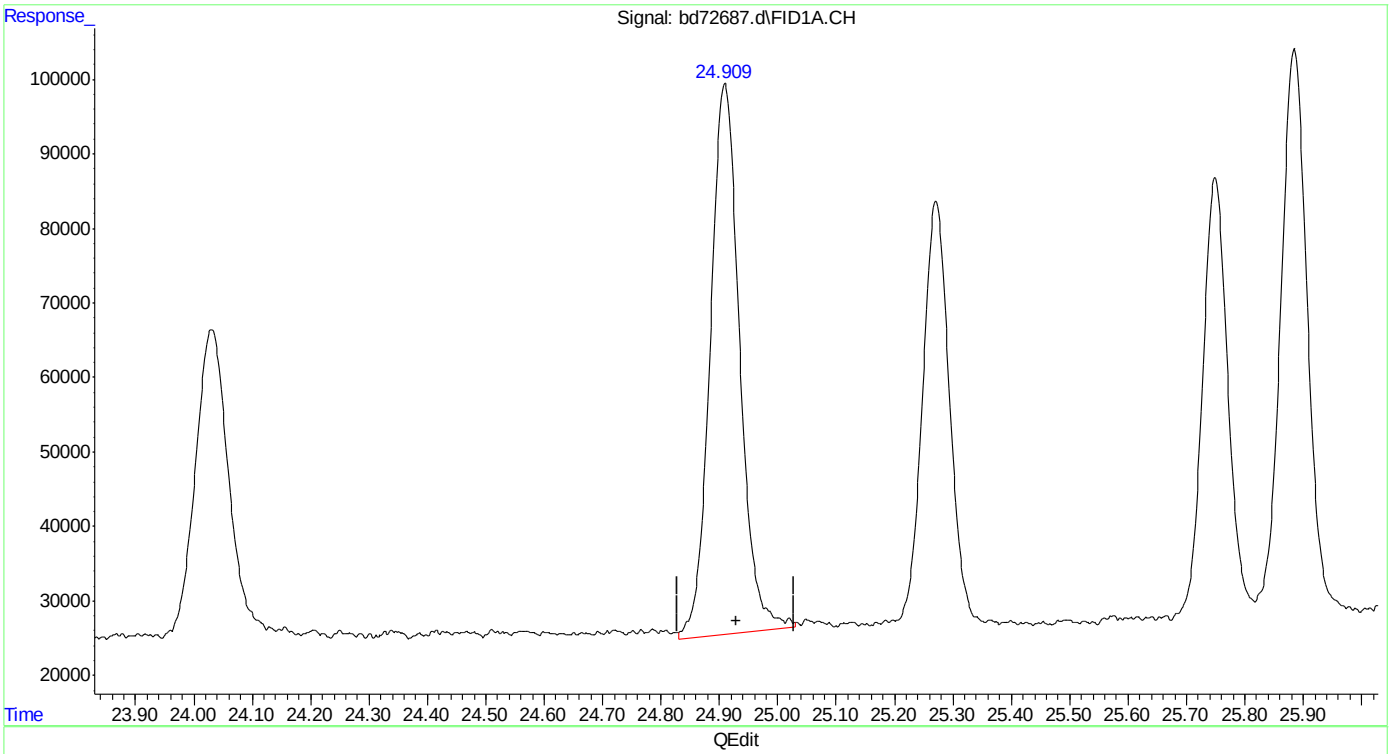
SGS ACCUTEST MC45580

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

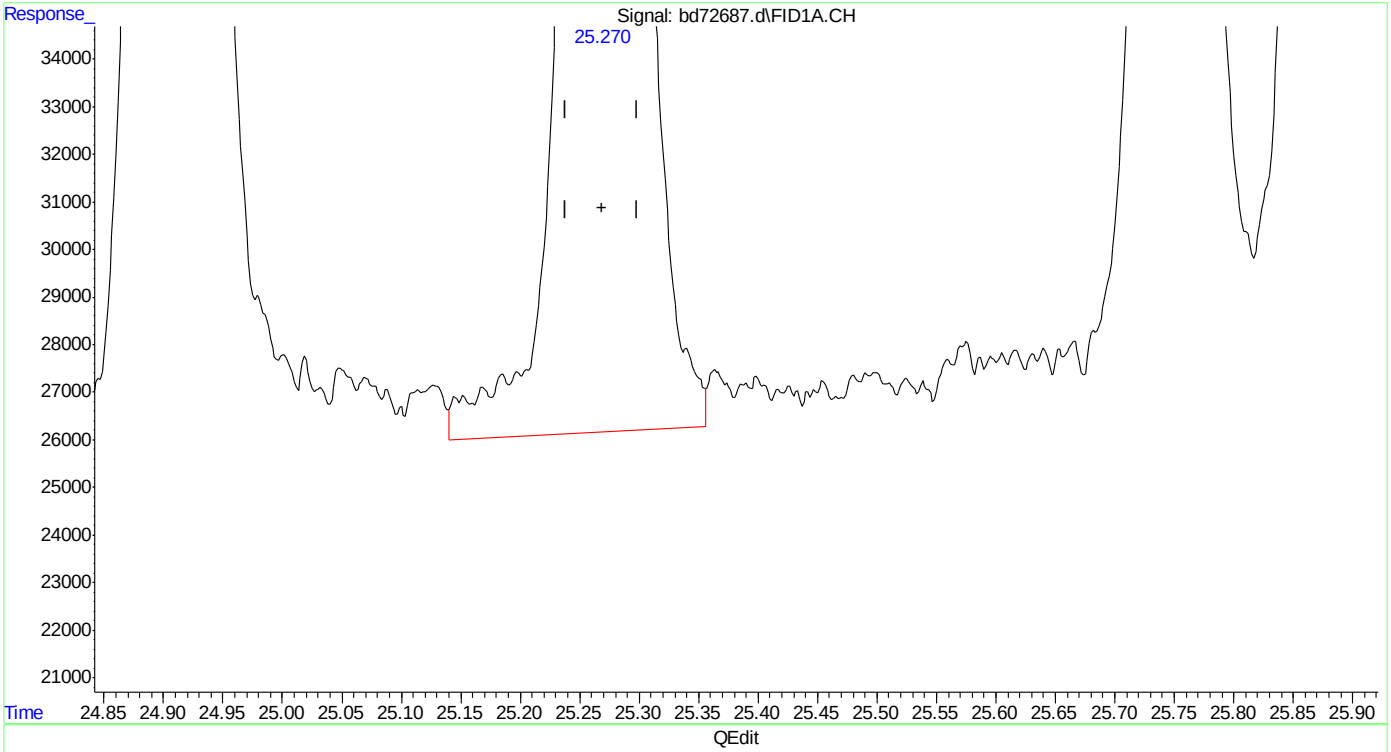
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:10 2016

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

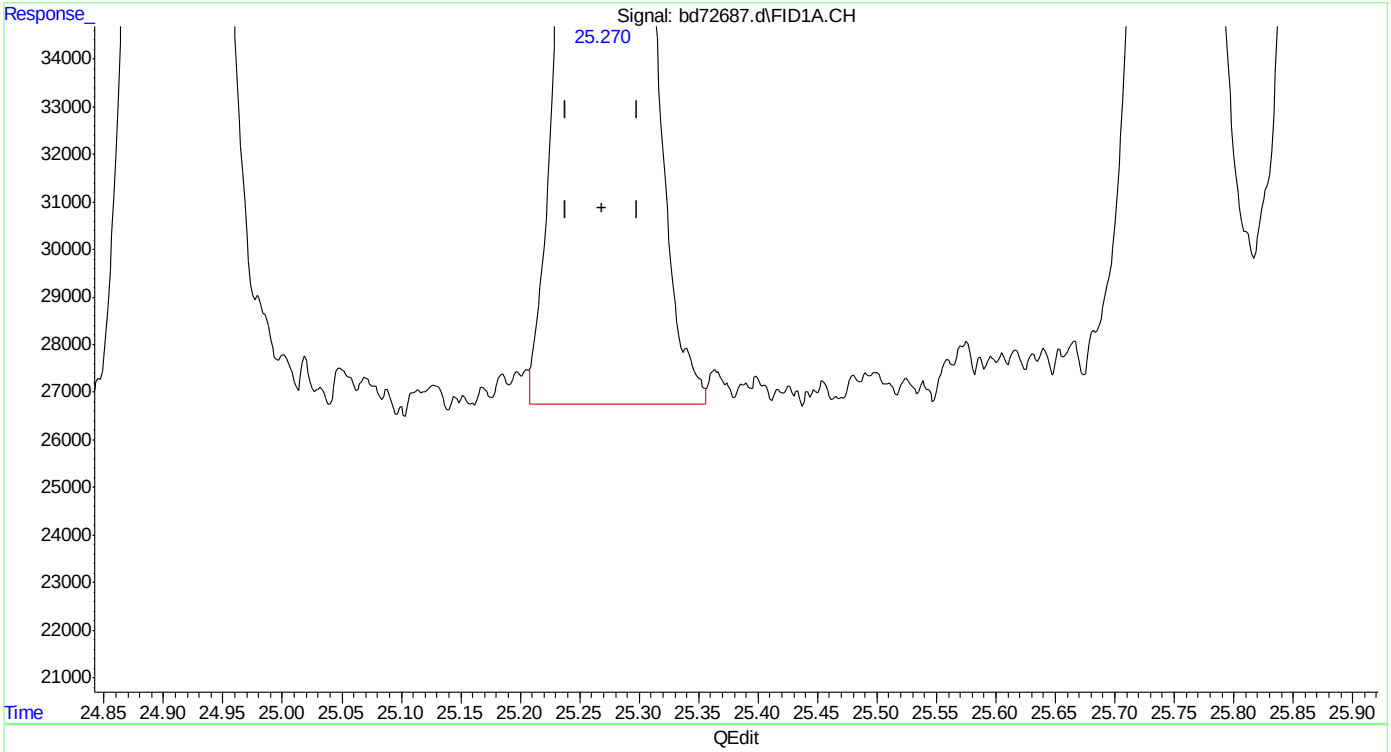
(+) = Expected Retention Time

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

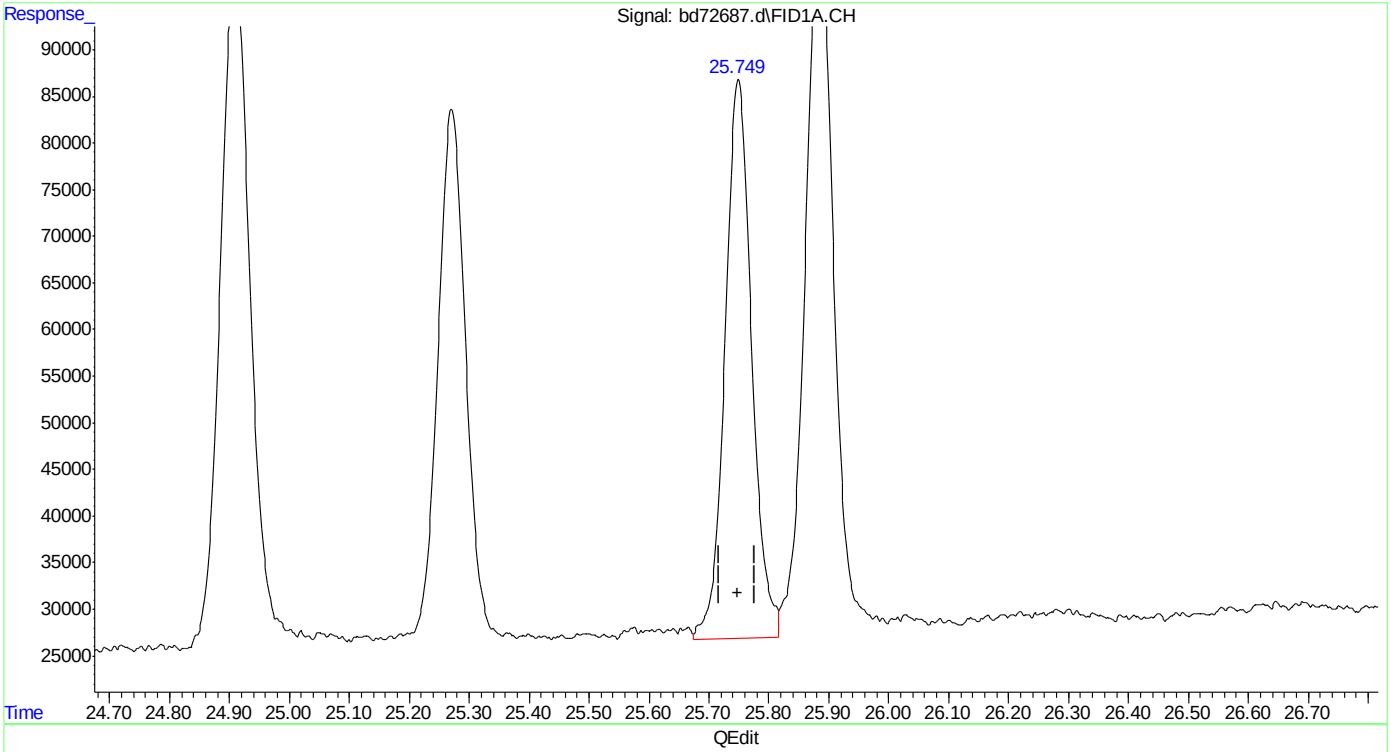
bd160219master.M Fri Feb 19 12:44:25 2016

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

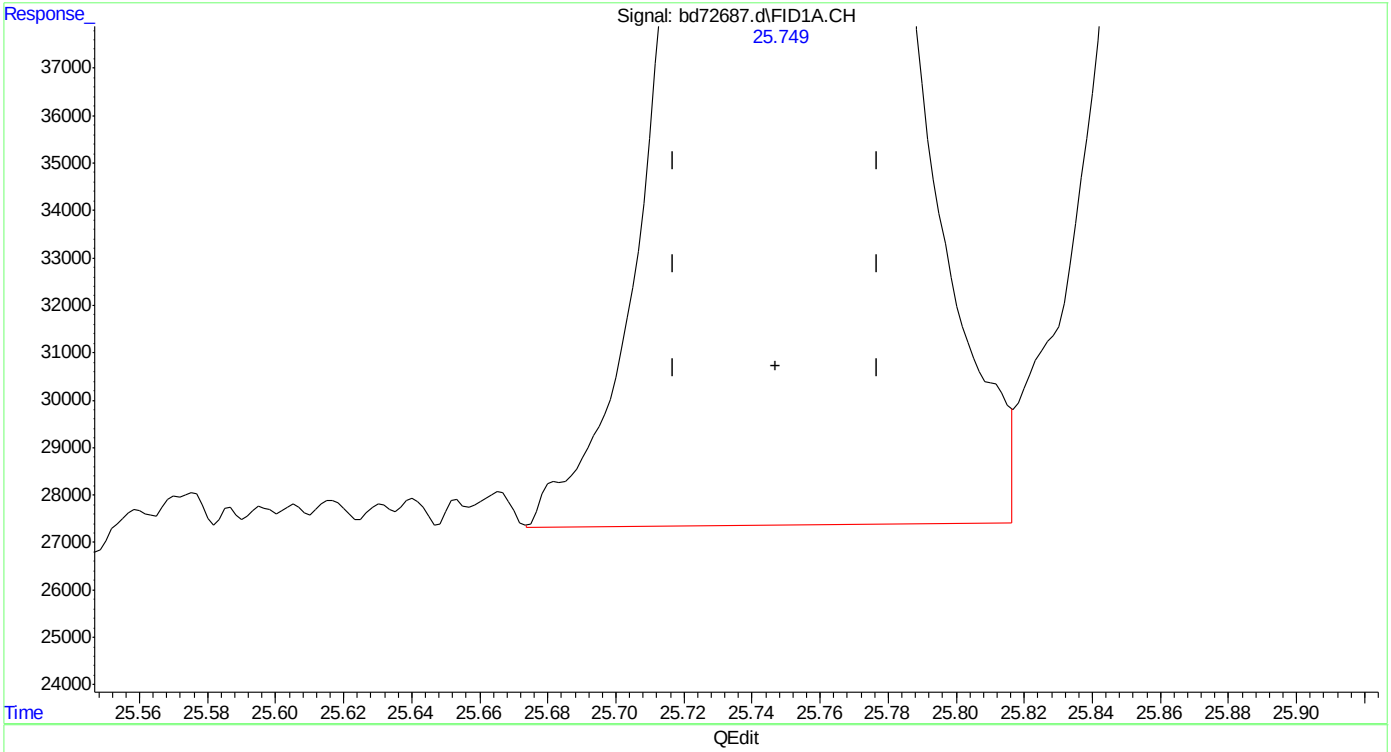
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:31 2016

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

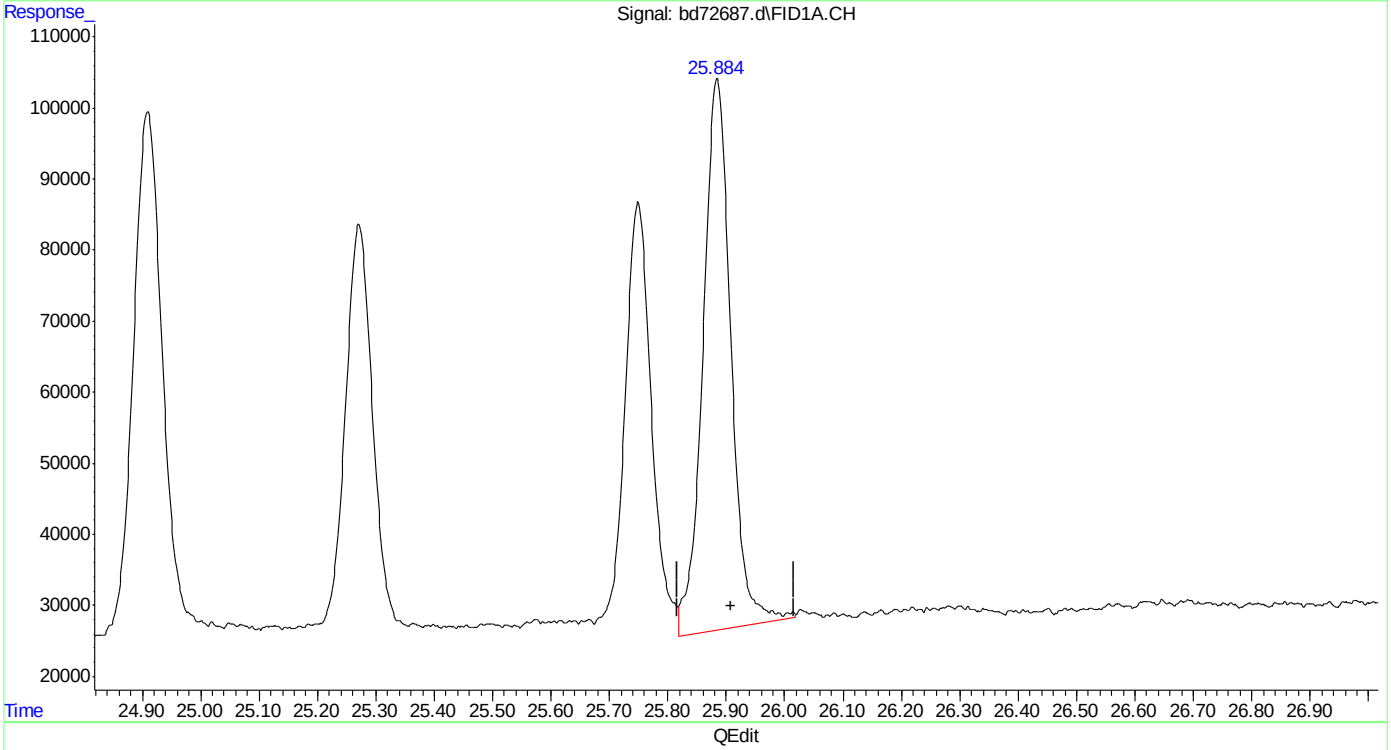
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:36 2016 Page: 1

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

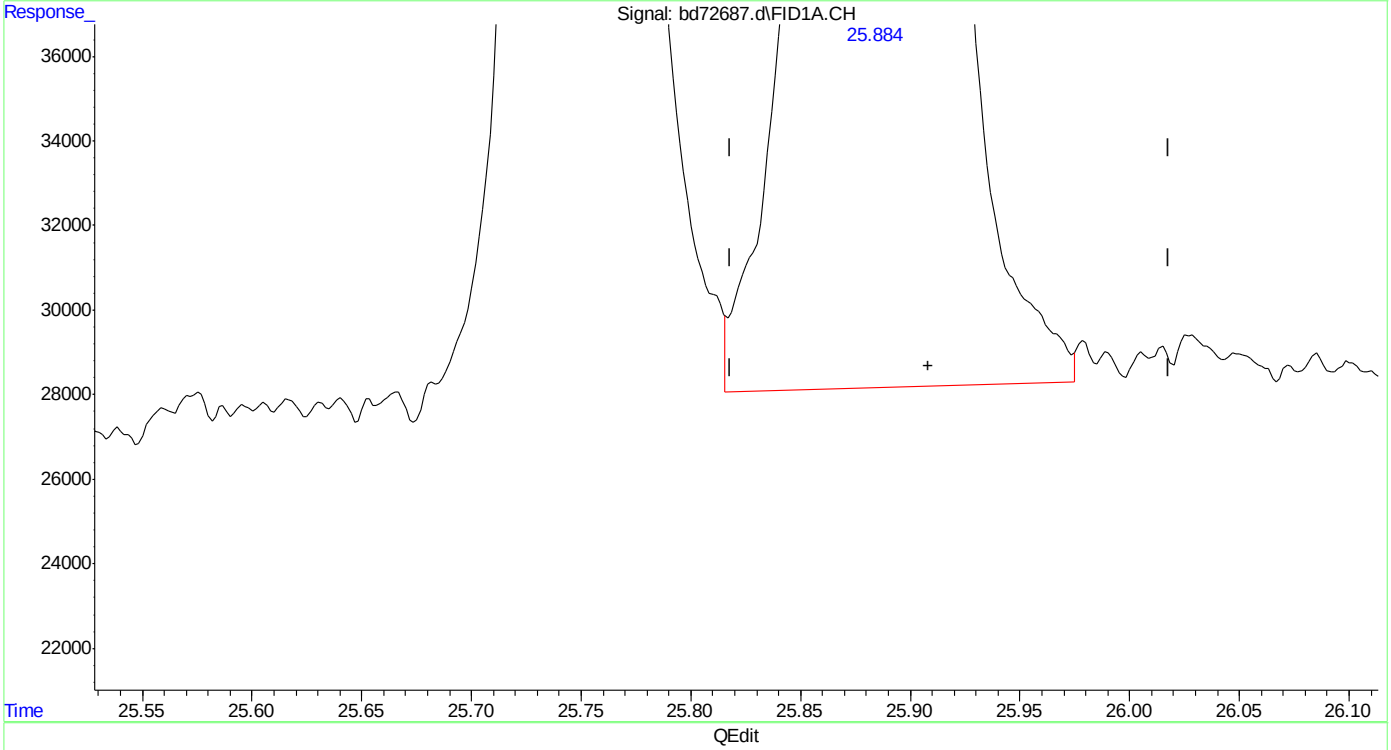
SGS ACCUTEST MC45580

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

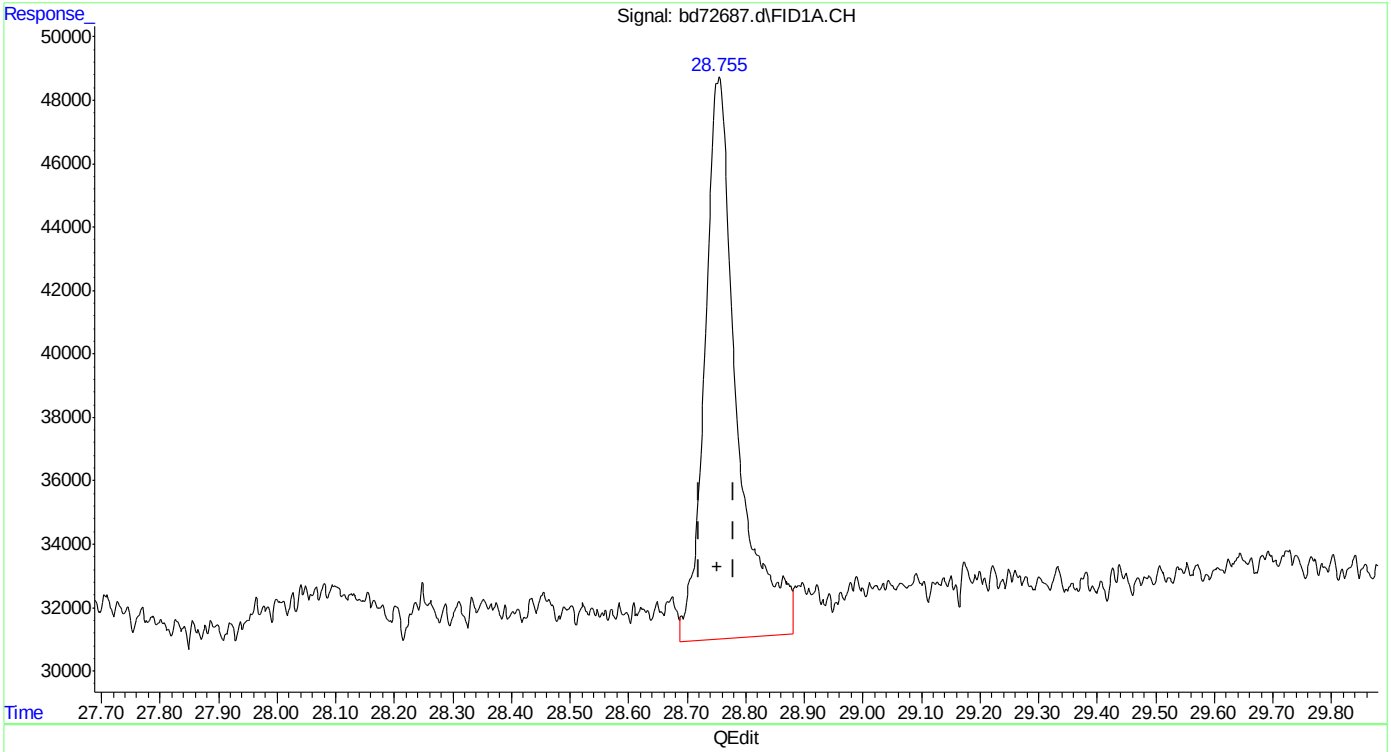
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:47 2016

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

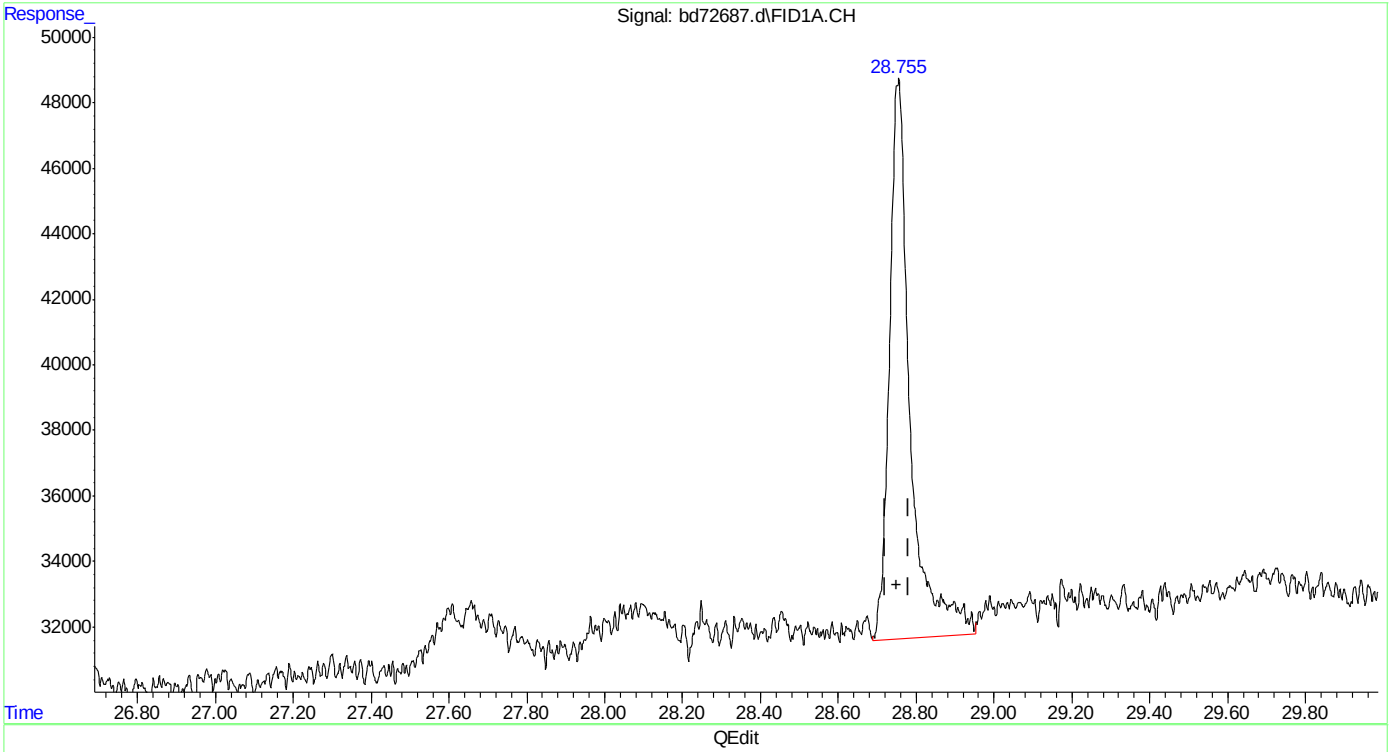
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:50 2016

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

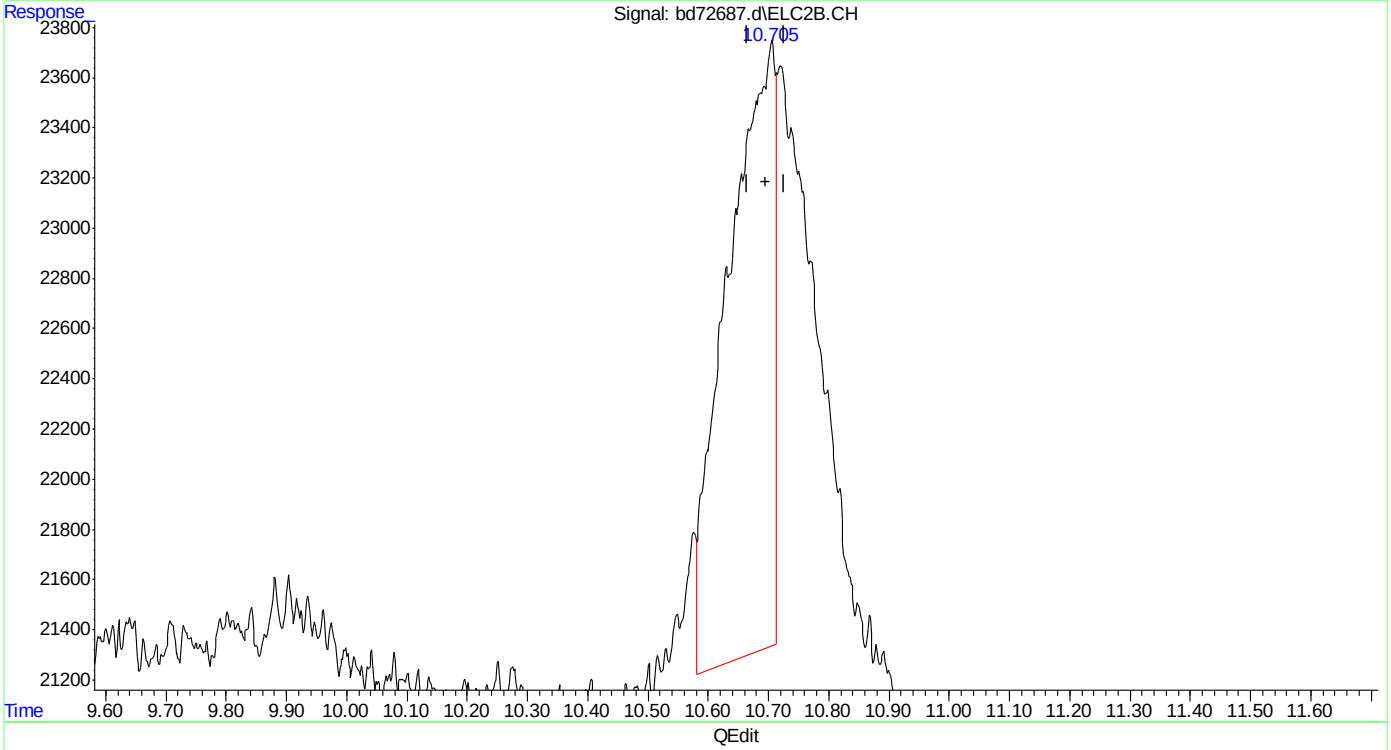
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:44:59 2016

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

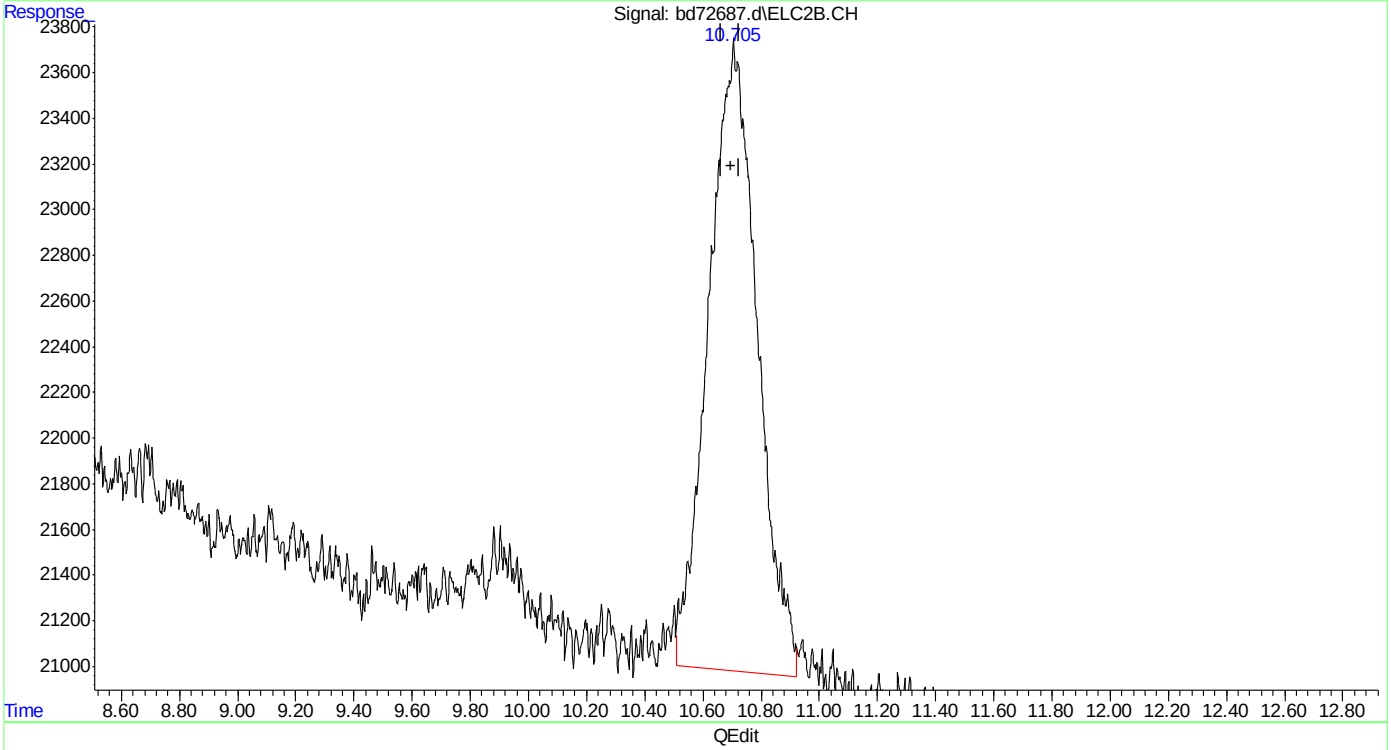
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:04 2016 Page: 1

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
bd160219master.M Fri Feb 19 12:45:16 2016

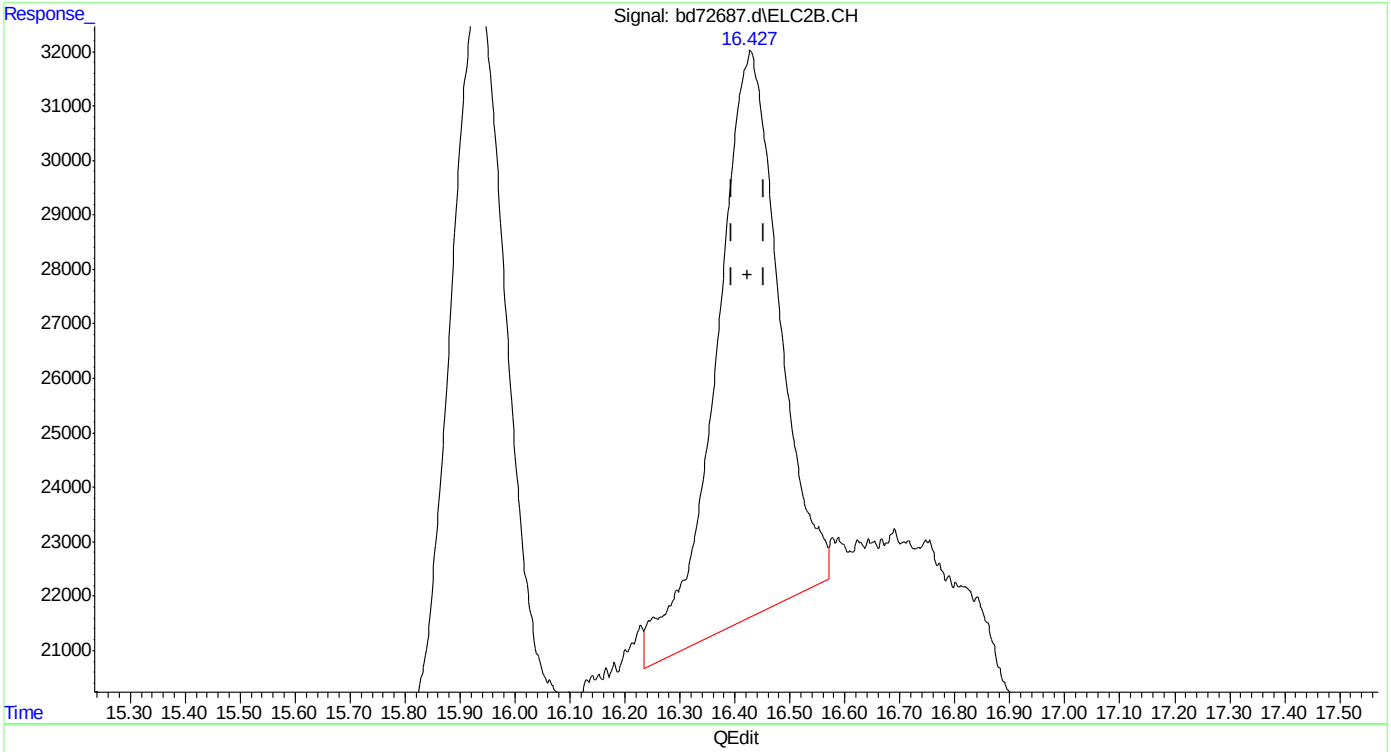
SGS ACCUTEST MC45580

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

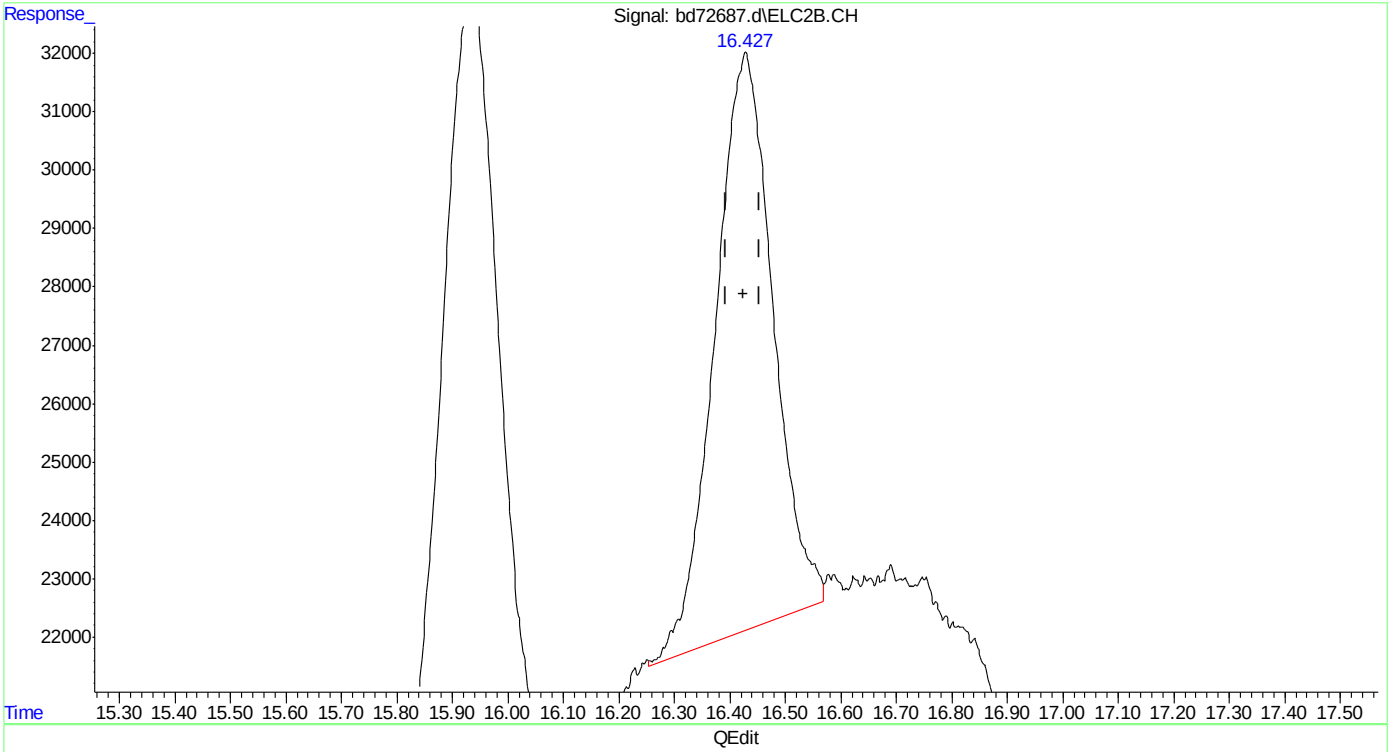
SGS ACCUTEST MC45580

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

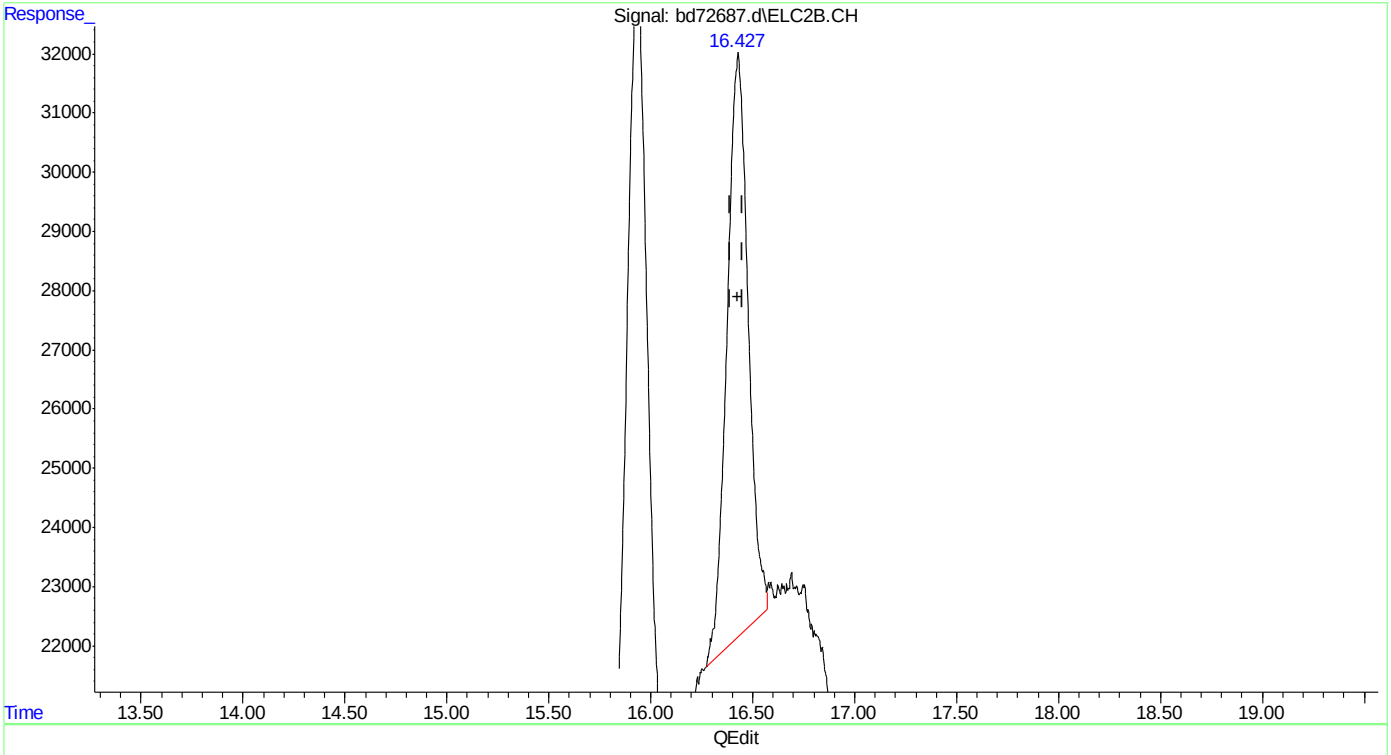
bd160219master.M Fri Feb 19 12:45:32 2016 Page: 1

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 2.004 ppb m
response 710788

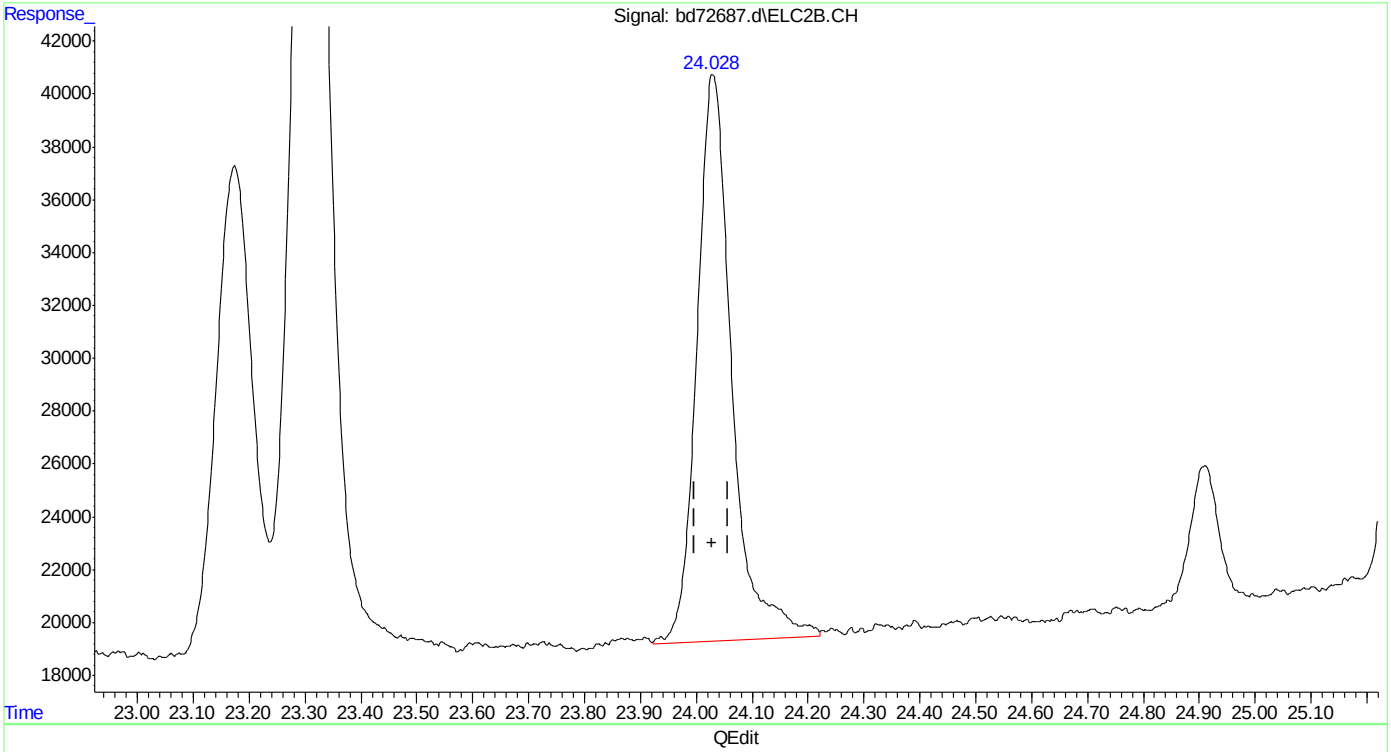
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:46 2016

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 :



(30) o-xylene #2
24.030min 2.277 ppb
response 930231

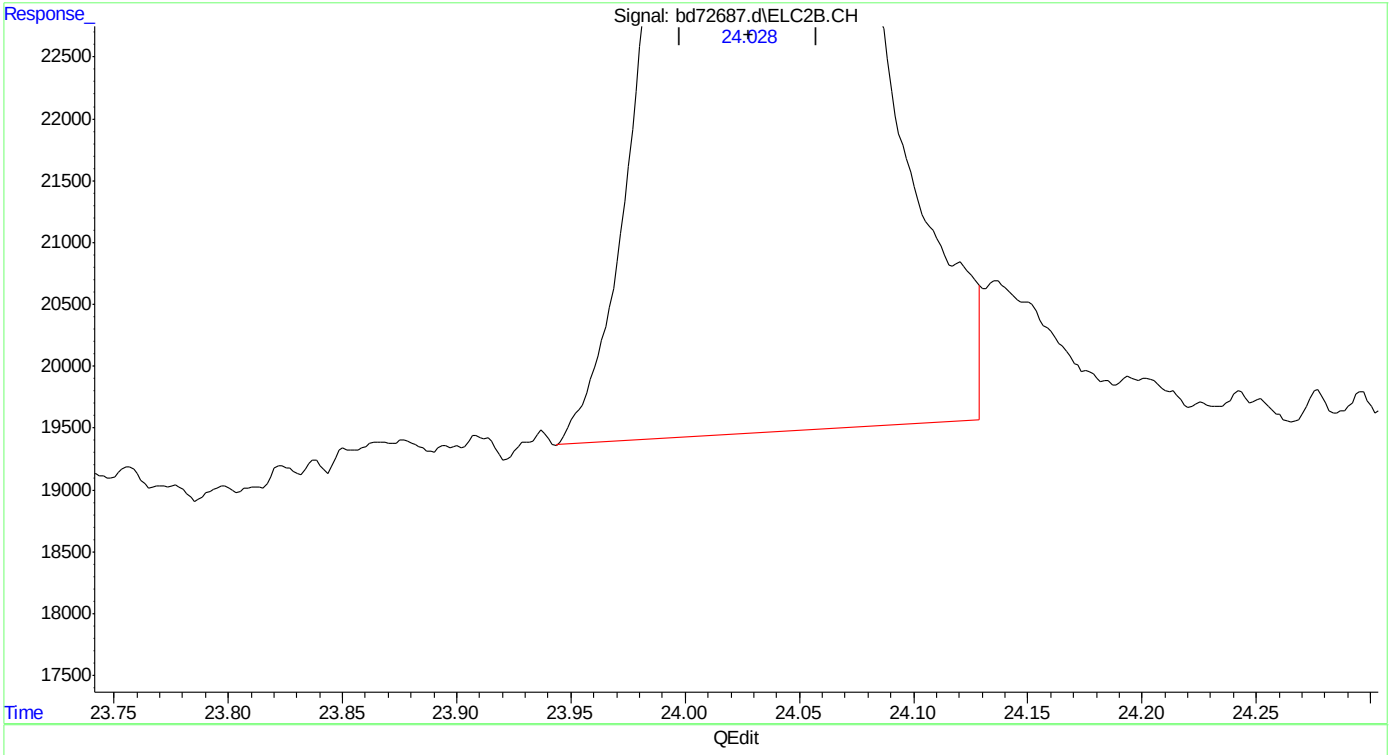
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:45:57 2016 Page: 1

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 Page: 1

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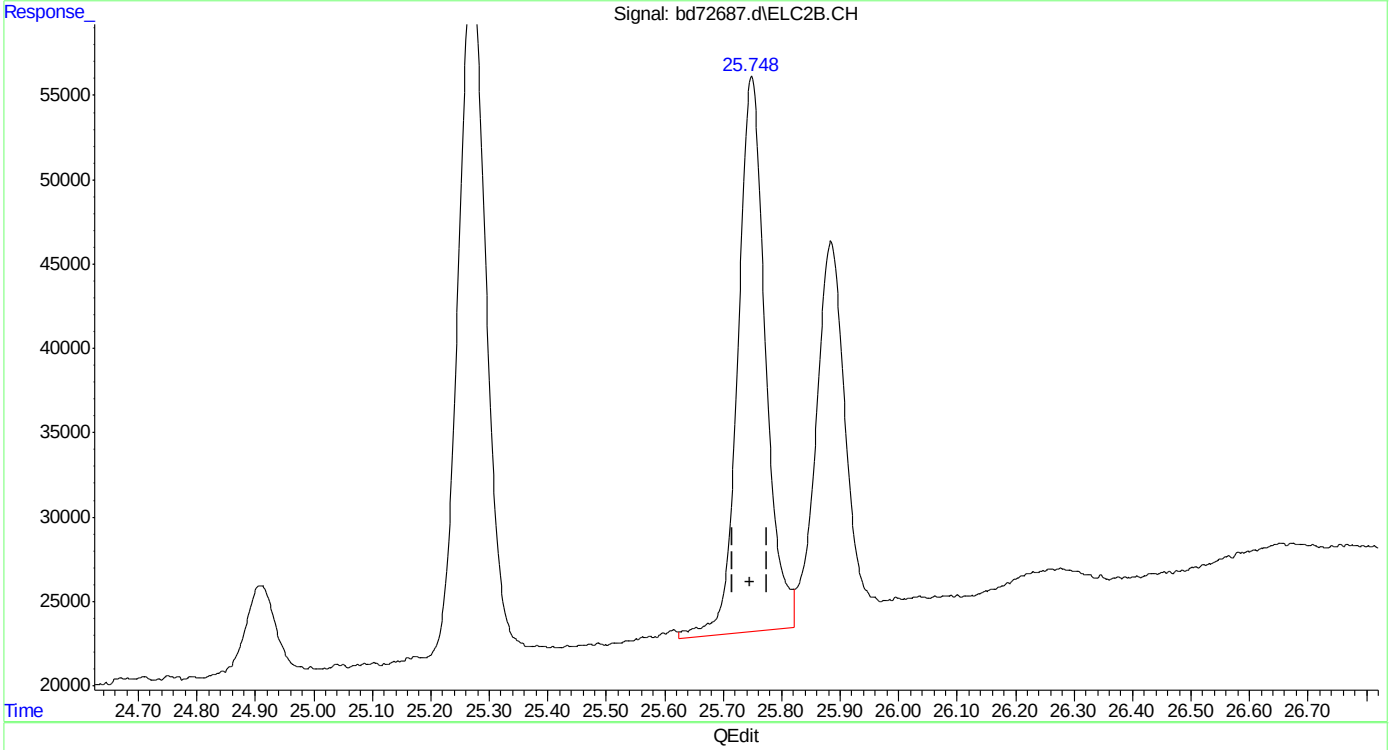
Quantitation Report (Qedit)

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

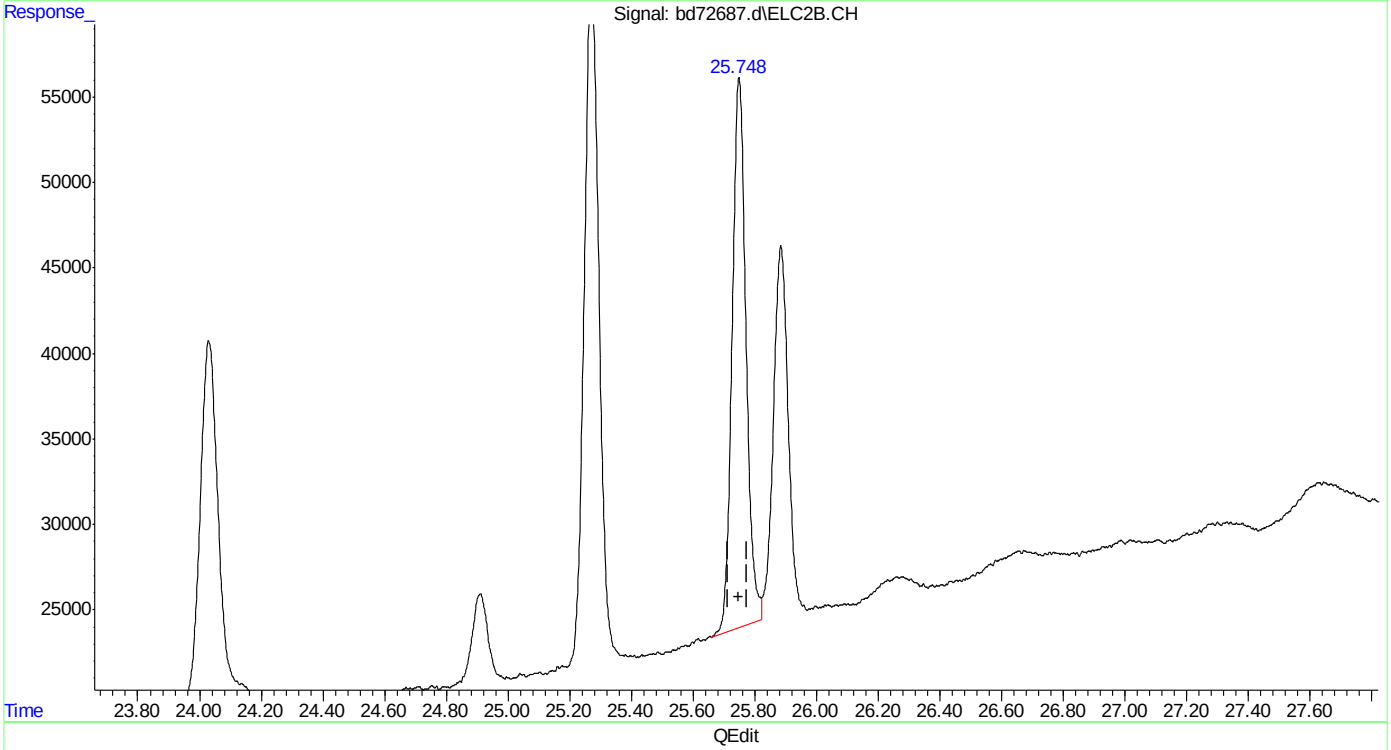
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:10 2016 Page: 1

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 :



(32) 1,2,4-trimethylbenzene #2
25.748min 2.174 ppb m
response 998600

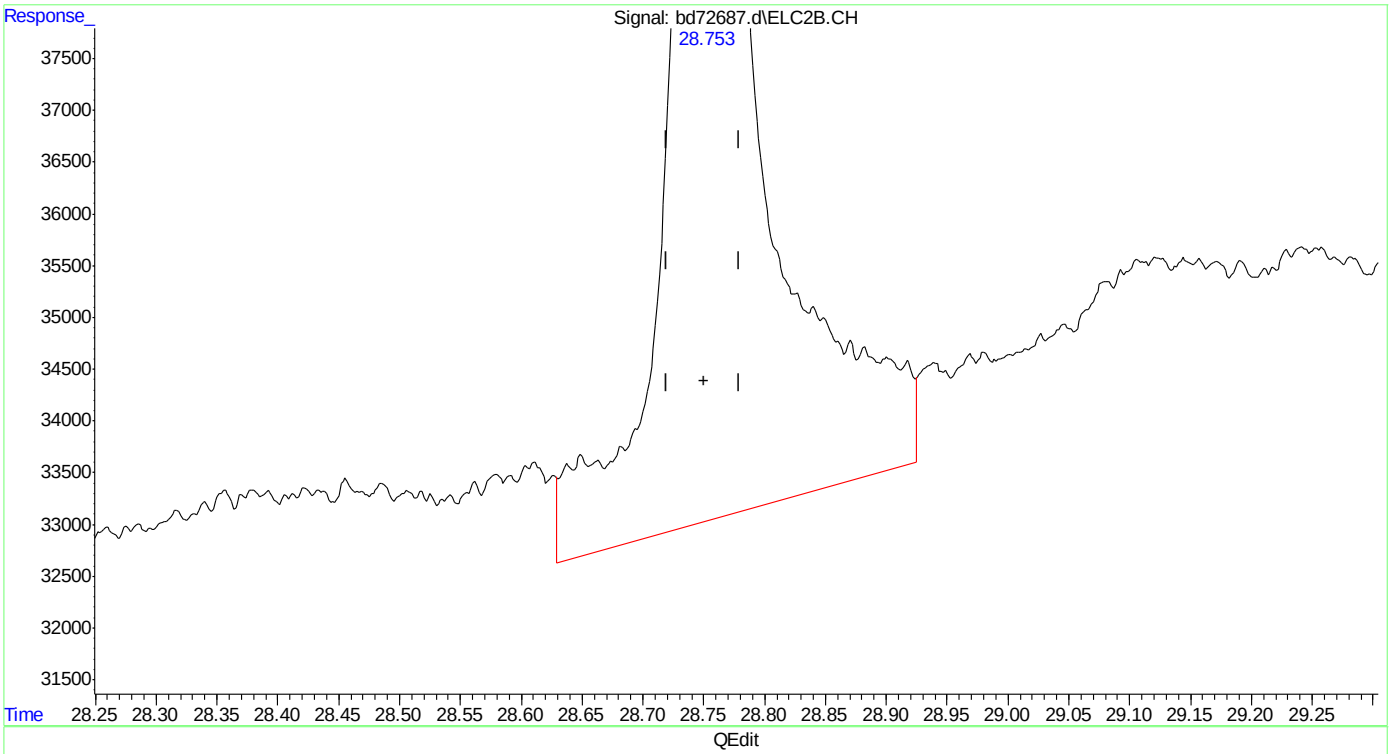
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 12:46:17 2016

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

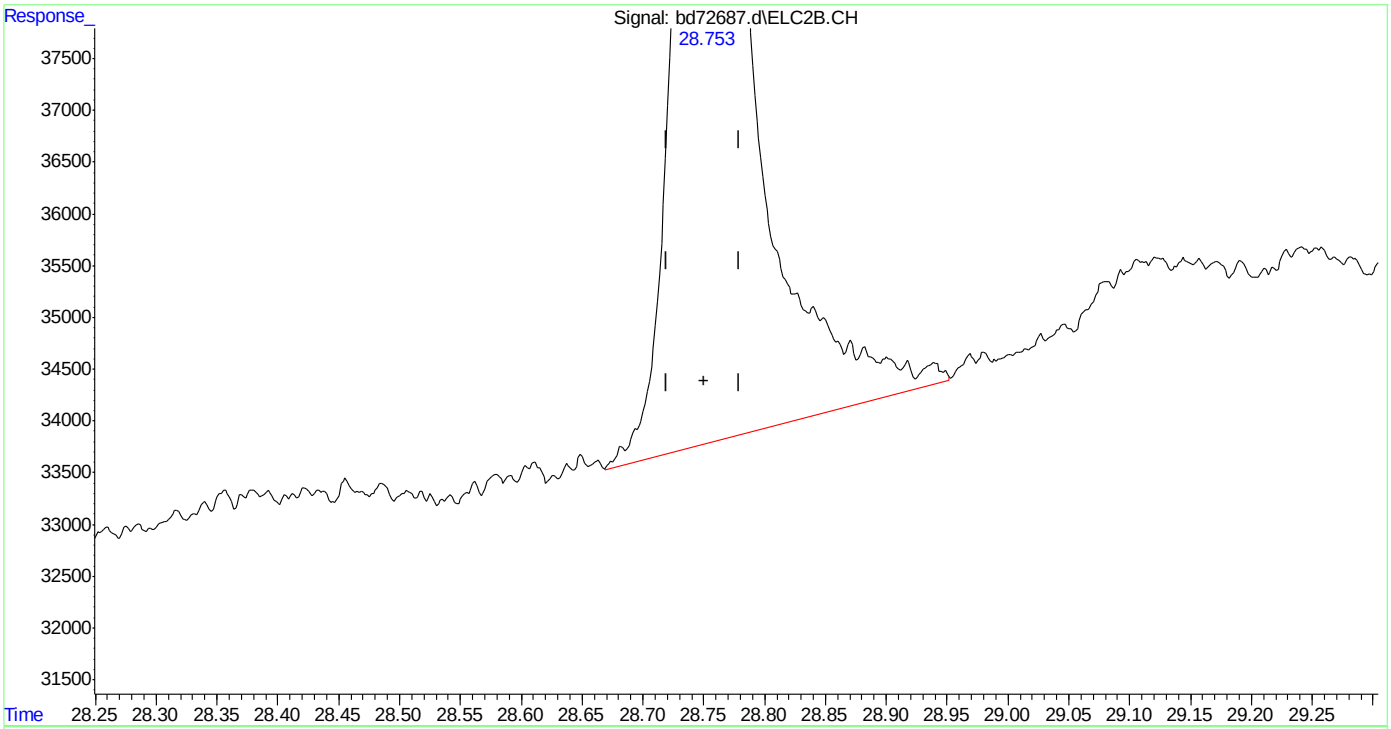
(+) = Expected Retention Time

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

bd160219master.M Fri Feb 19 12:46:30 2016

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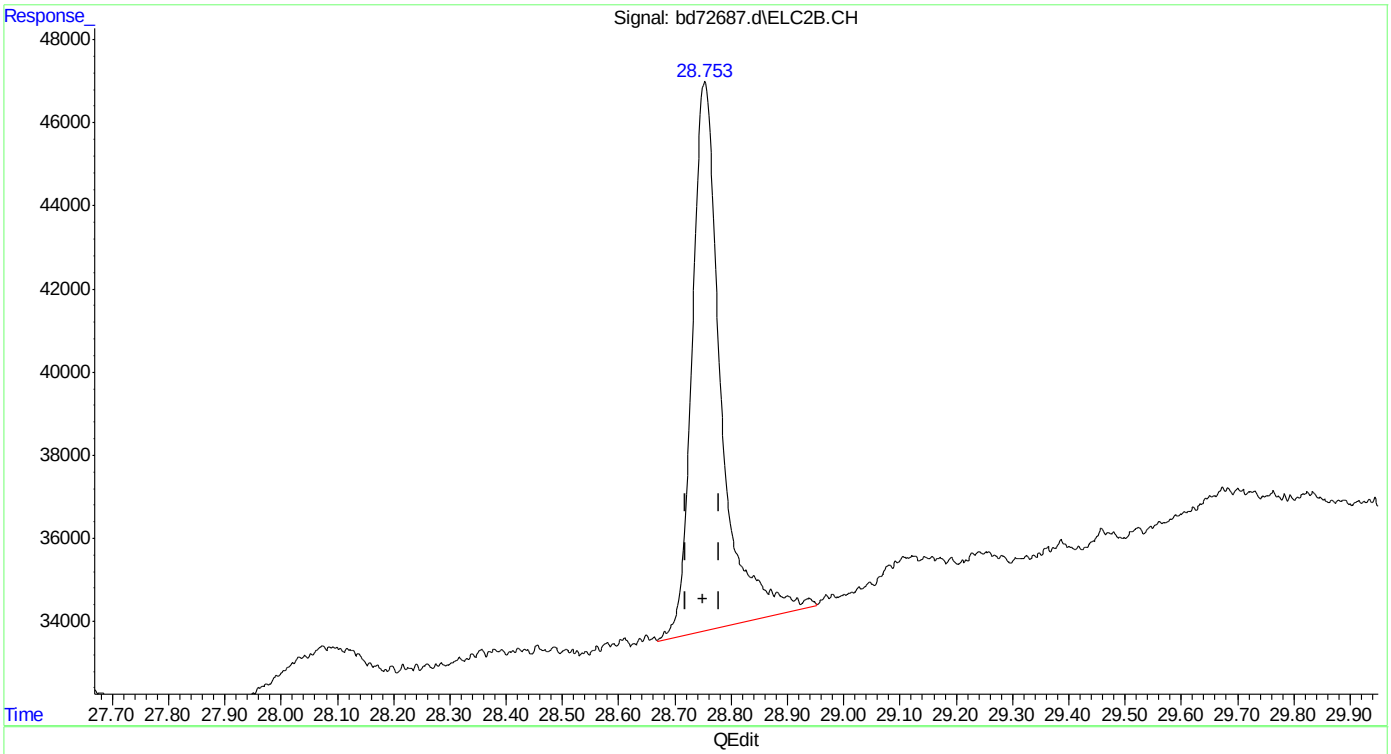
Quantitation Report (Qedit)

```
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

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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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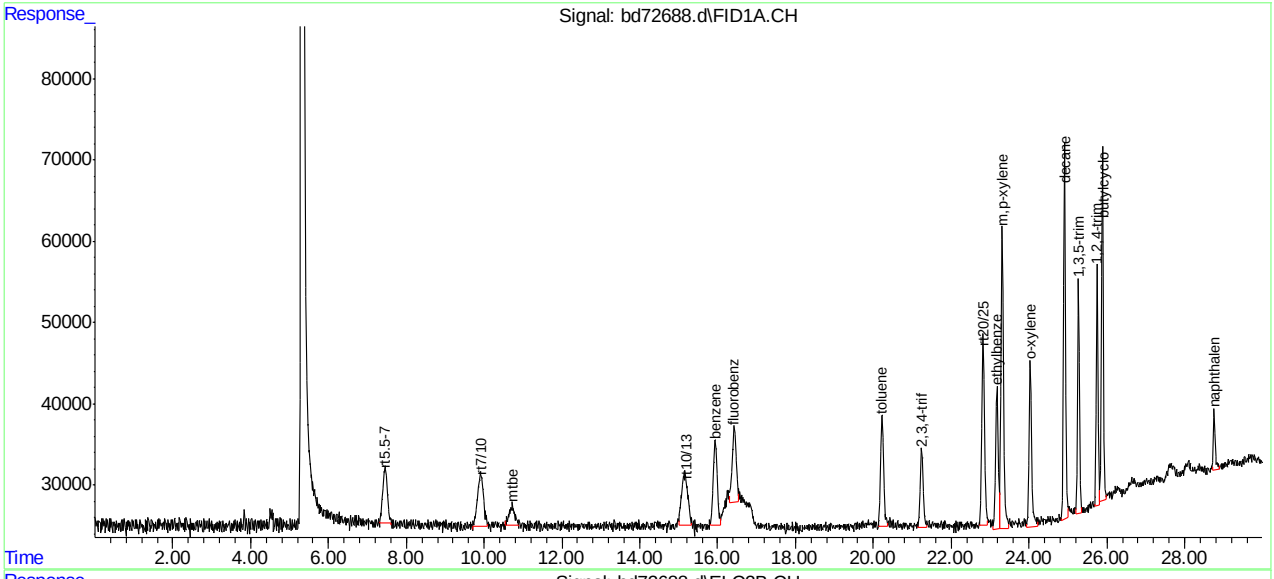
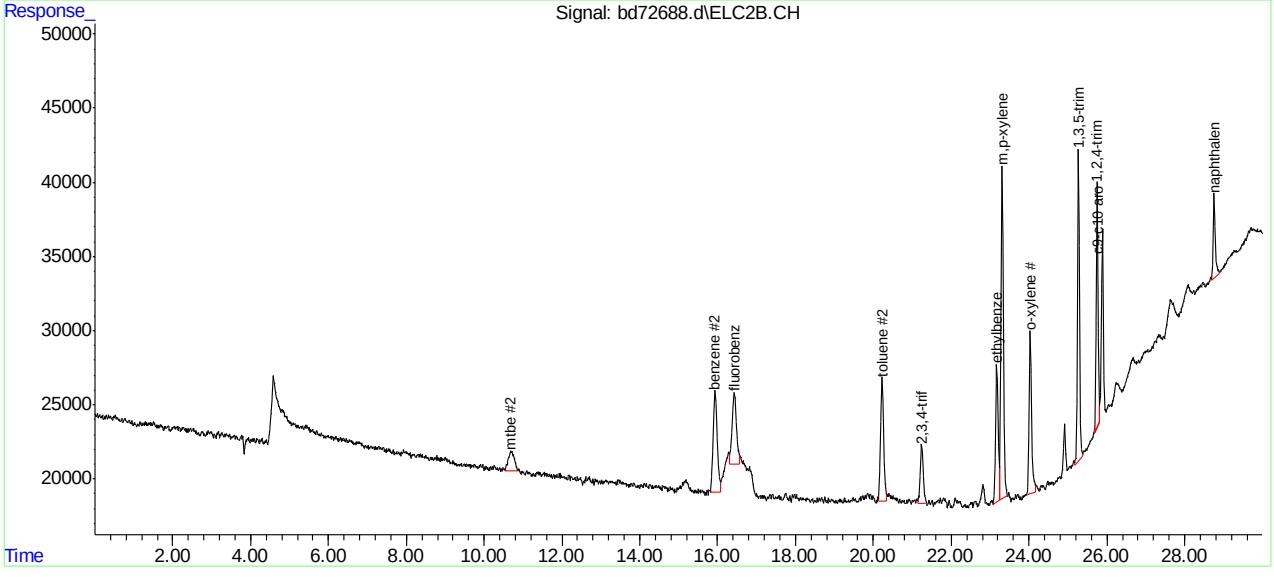
Quantitation Report (QT Reviewed)

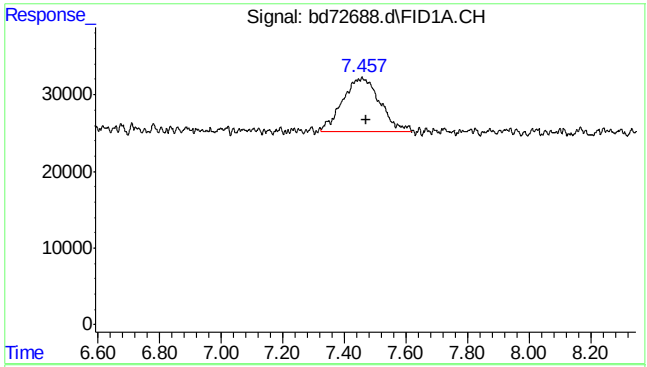
Data Path : C:\msdchem\1\data\BD160219\
Data File : bd72688.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 19-Feb-16, 12:36:17
Operator : tonyf
Sample : ic3572-1 (Sig #1); ic3752-1 (Sig #2)
Misc : gc25978,gbd3572,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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 :

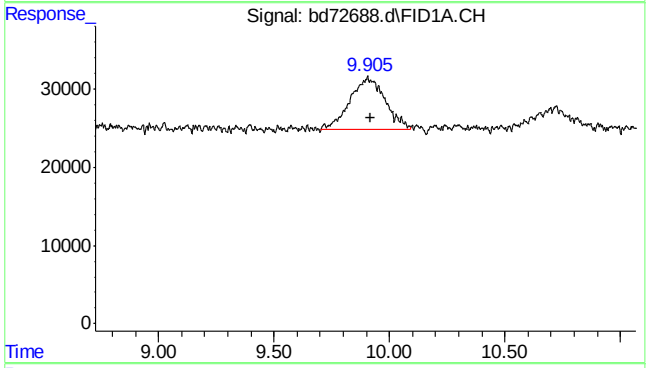






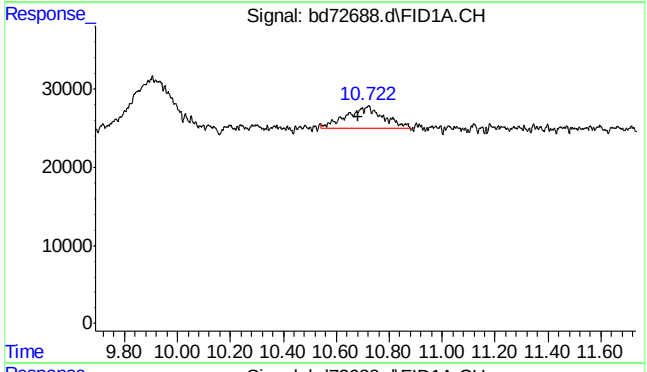
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 578714
Conc: 1.01 ppb m



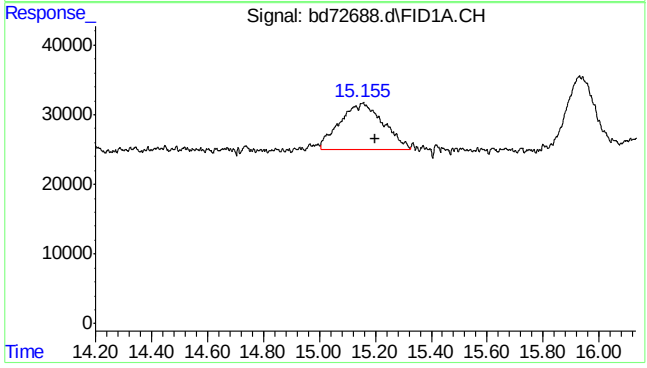
#2 rt7/10

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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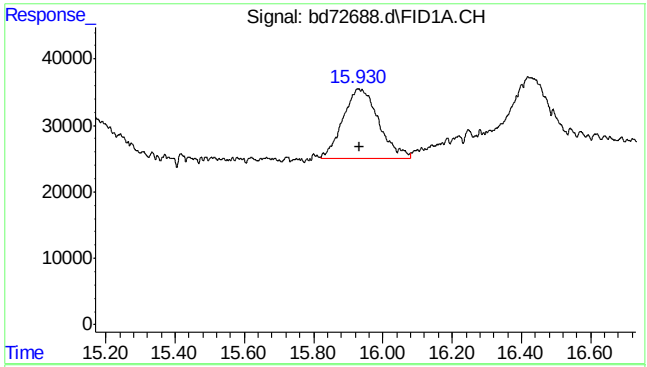
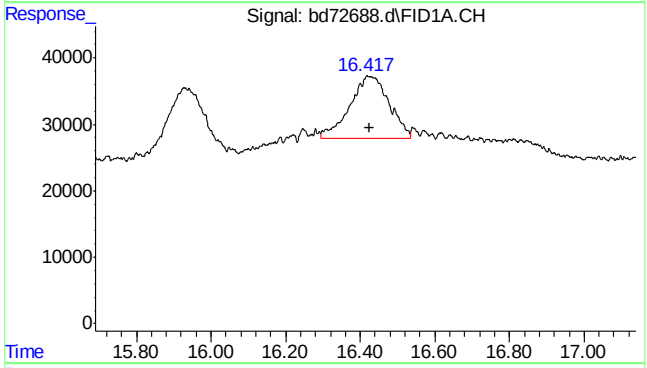


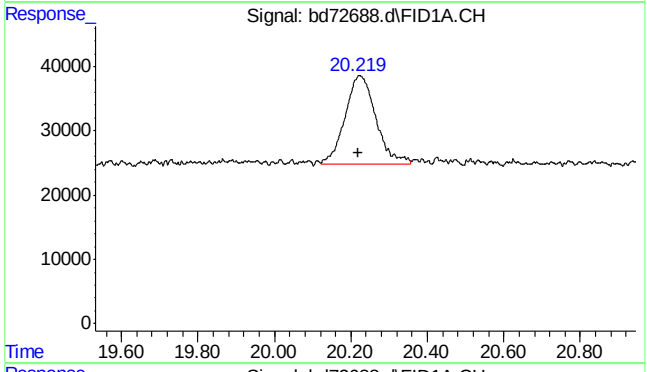
#5 benzene

R.T.: 15.930 min
Delta R.T.: -0.003 min
Response: 747683
Conc: 0.97 ppb m



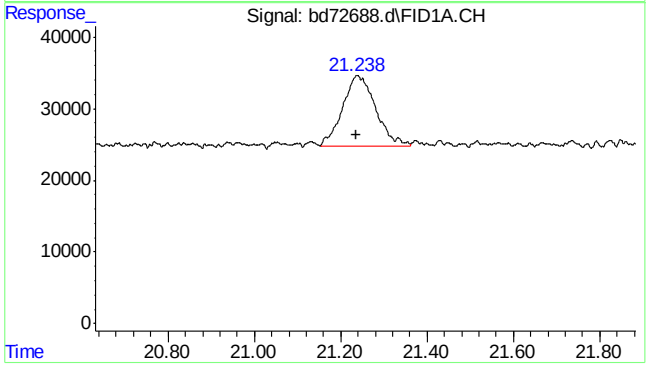
#6 fluorobenzene

R.T.: 16.417 min
Delta R.T.: -0.007 min
Response: 690853
Conc: 0.95 ppb m



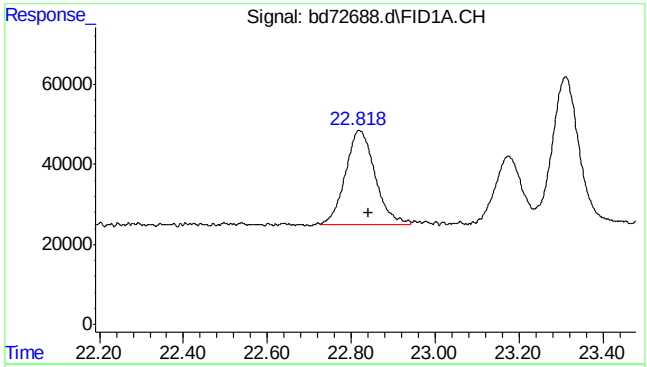
#8 toluene

R.T.: 20.219 min
Delta R.T.: 0.000 min
Response: 761168
Conc: 0.99 ppb m



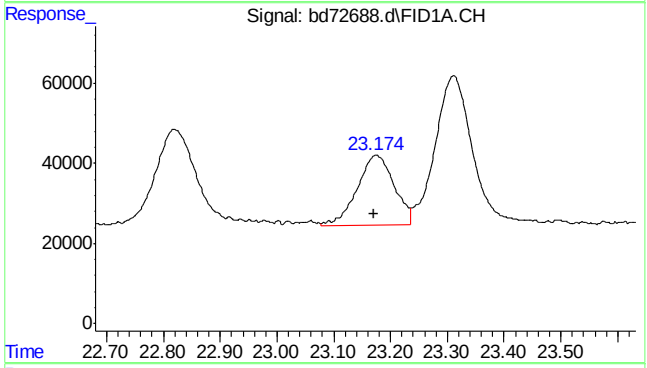
#9 2,3,4-trifluorotoluene

R.T.: 21.238 min
Delta R.T.: 0.000 min
Response: 520707
Conc: 0.94 ppb m



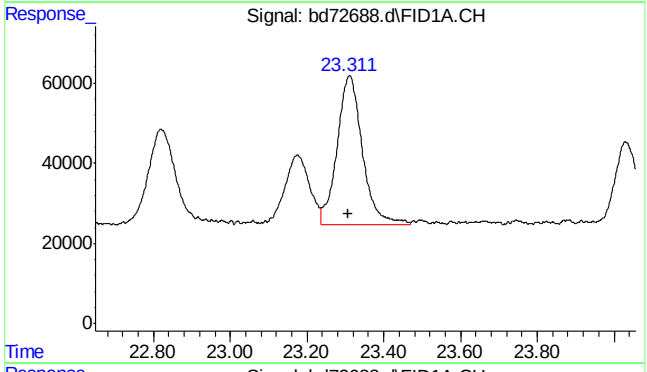
#11 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 1149887
Conc: 1.34 ppb m



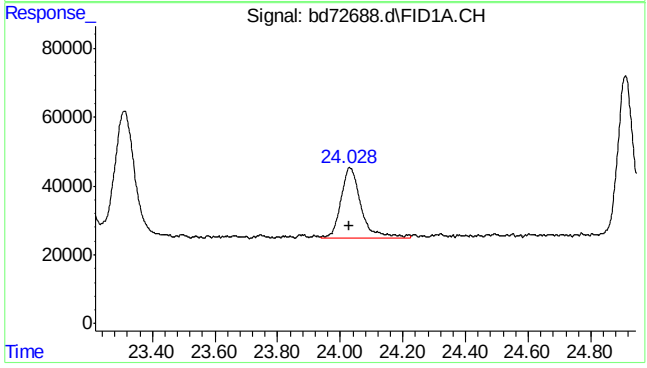
#13 ethylbenzene

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

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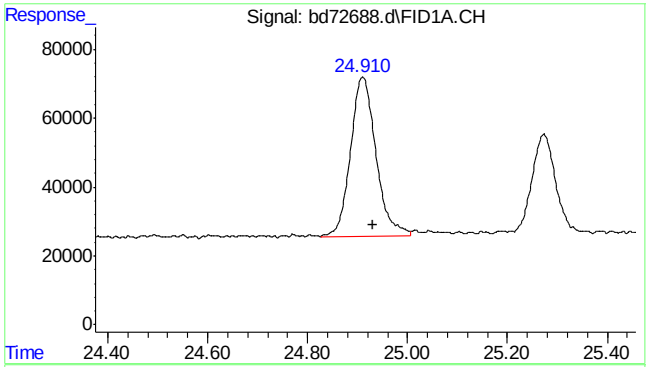
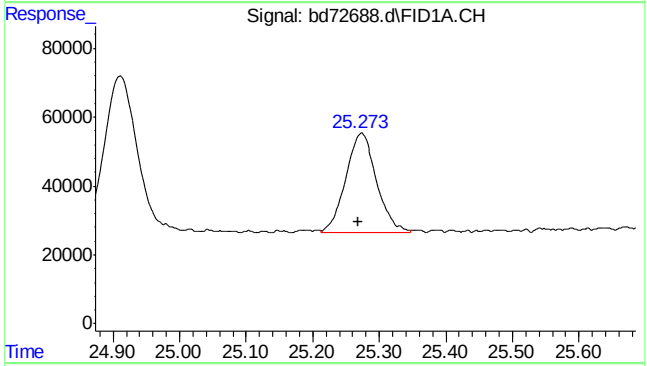


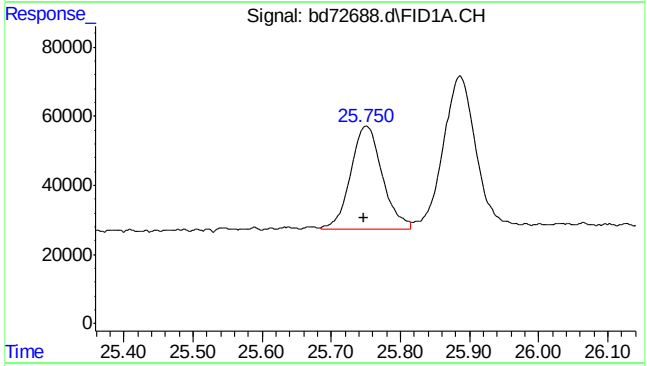
#16 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 1632465
Conc: 1.70 ppb m



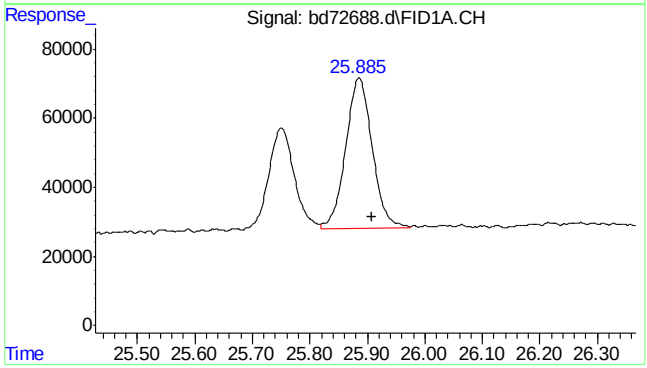
#17 1,3,5-trimethylbenzene

R.T.: 25.273 min
Delta R.T.: 0.004 min
Response: 946024
Conc: 1.00 ppb m



#18 1,2,4-trimethylbenzene

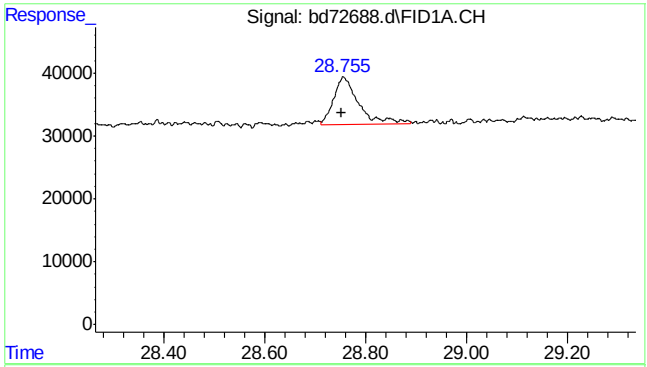
R.T.: 25.750 min
Delta R.T.: 0.003 min
Response: 938216
Conc: 1.07 ppb m



#19 butylcyclohexane

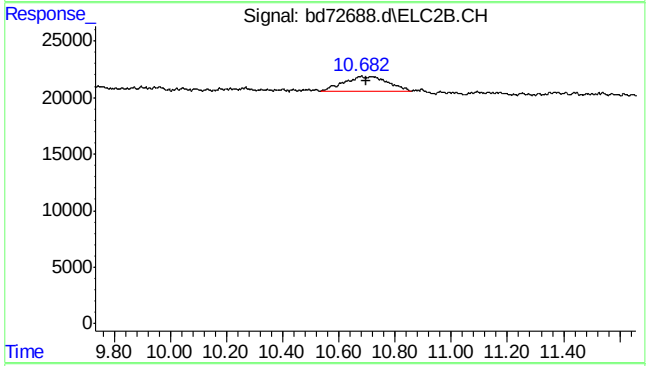
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 1408346
Conc: 1.42 ppb m

SGS ACCUTEST MC45580



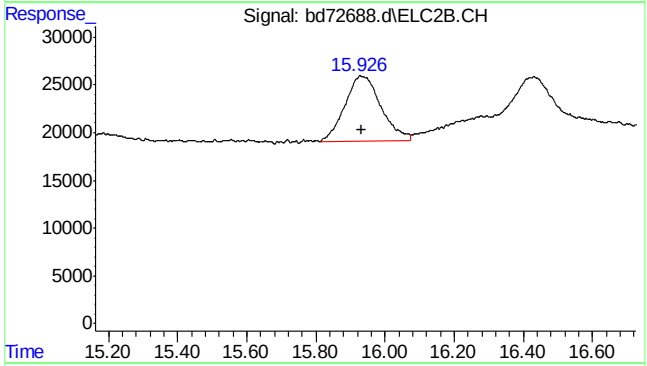
#20 naphthalene

R.T.: 28.755 min
Delta R.T.: 0.004 min
Response: 268939
Conc: 0.67 ppb m



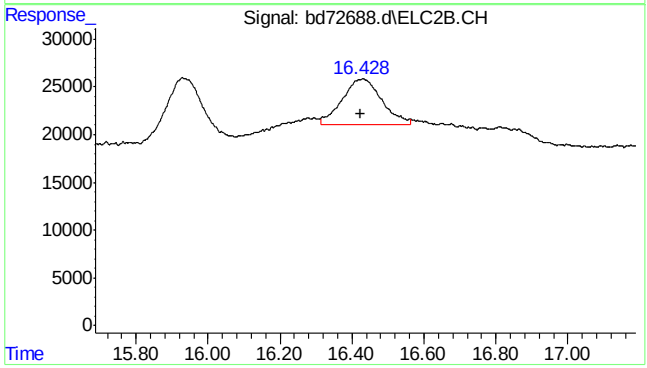
#23 mtbe #2

R.T.: 10.682 min
Delta R.T.: -0.014 min
Response: 146572
Conc: 0.93 ppb m



#24 benzene #2

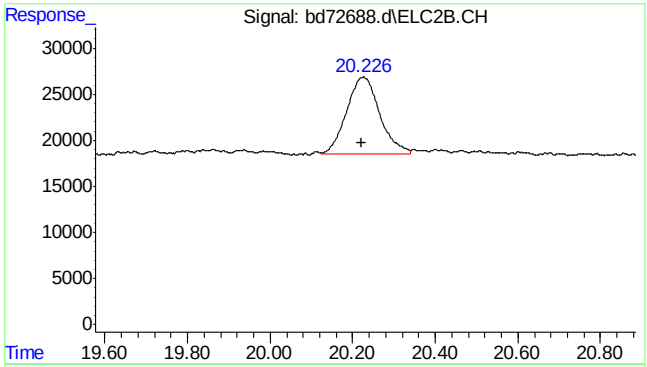
R.T.: 15.926 min
Delta R.T.: -0.006 min
Response: 496928
Conc: 1.06 ppb m



#25 fluorobenzene #2

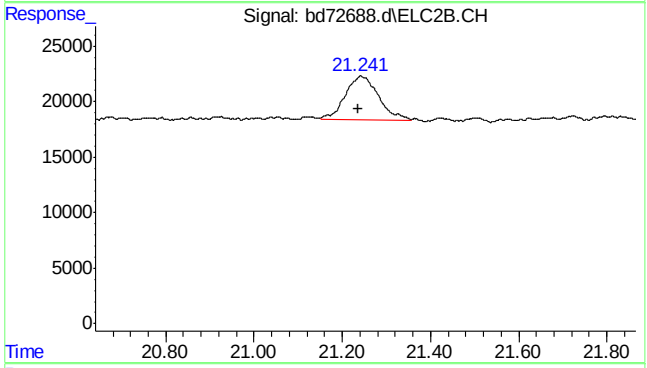
R.T.: 16.428 min
Delta R.T.: 0.004 min
Response: 373315
Conc: 1.05 ppb m

SGS ACCUTEST MC45580



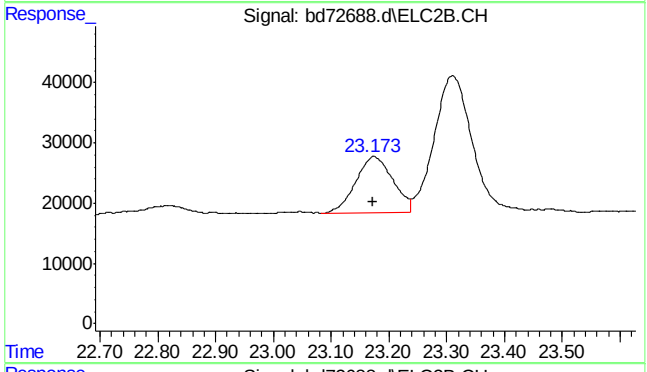
#26 toluene #2

R.T.: 20.226 min
Delta R.T.: 0.005 min
Response: 470661
Conc: 1.08 ppb m



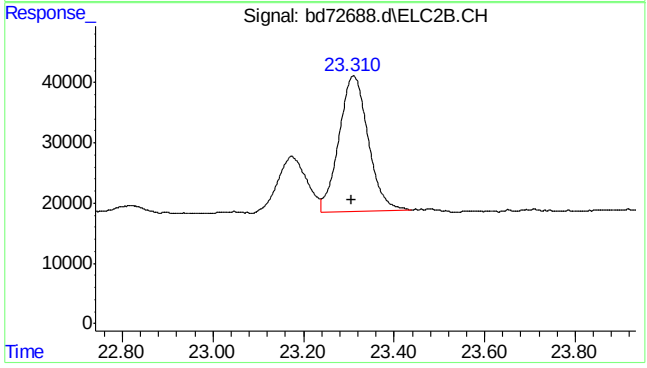
#27 2,3,4-trifluorotoluene #2

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

7.5.9

7

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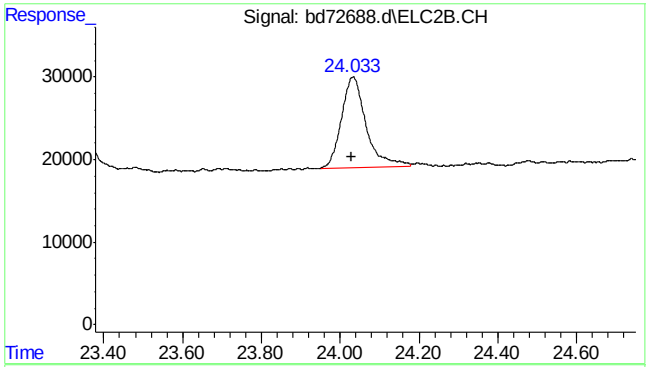
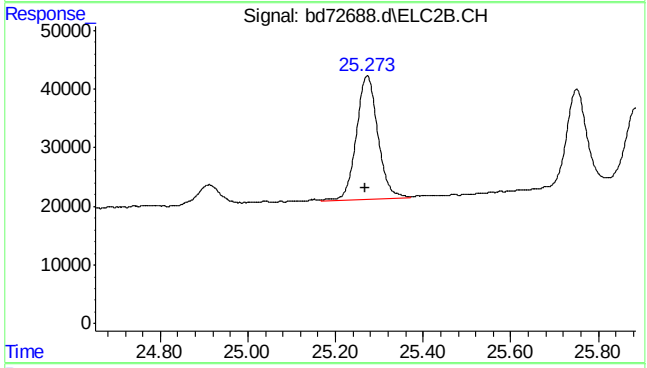


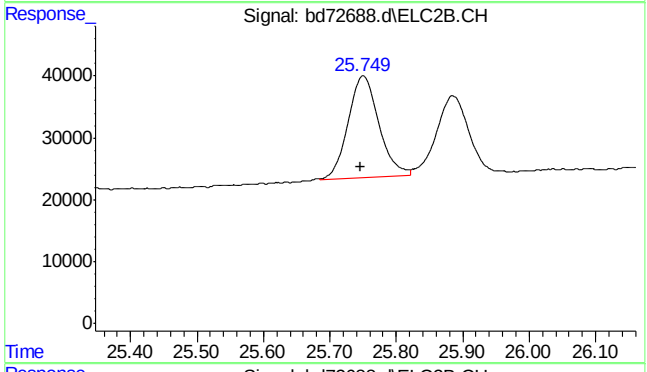
#30 o-xylene #2

R.T.: 24.033 min
Delta R.T.: 0.005 min
Response: 483692
Conc: 1.16 ppb m



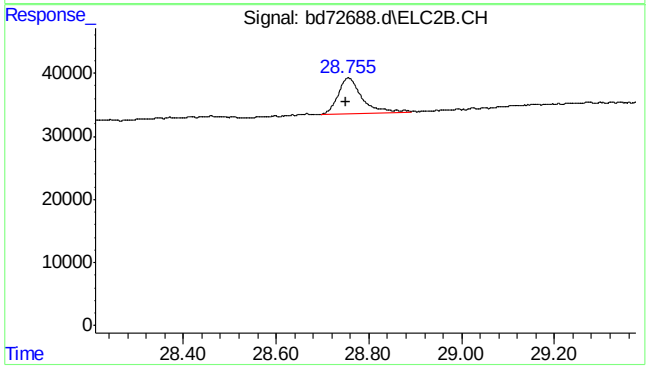
#31 1,3,5-trimethylbenzene #2

R.T.: 25.273 min
Delta R.T.: 0.005 min
Response: 712865
Conc: 1.08 ppb



#32 1,2,4-trimethylbenzene #2

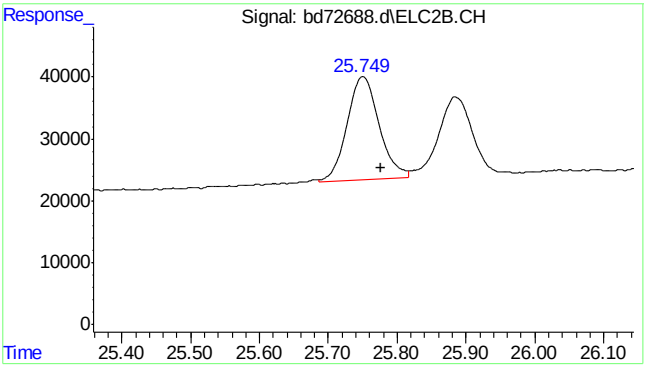
R.T.: 25.749 min
Delta R.T.: 0.003 min
Response: 530966
Conc: 1.13 ppb m



#33 naphthalene #2

R.T.: 28.755 min
Delta R.T.: 0.005 min
Response: 204485
Conc: 0.71 ppb m

SGS ACCUTEST MC45580



#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

7.5.9

7

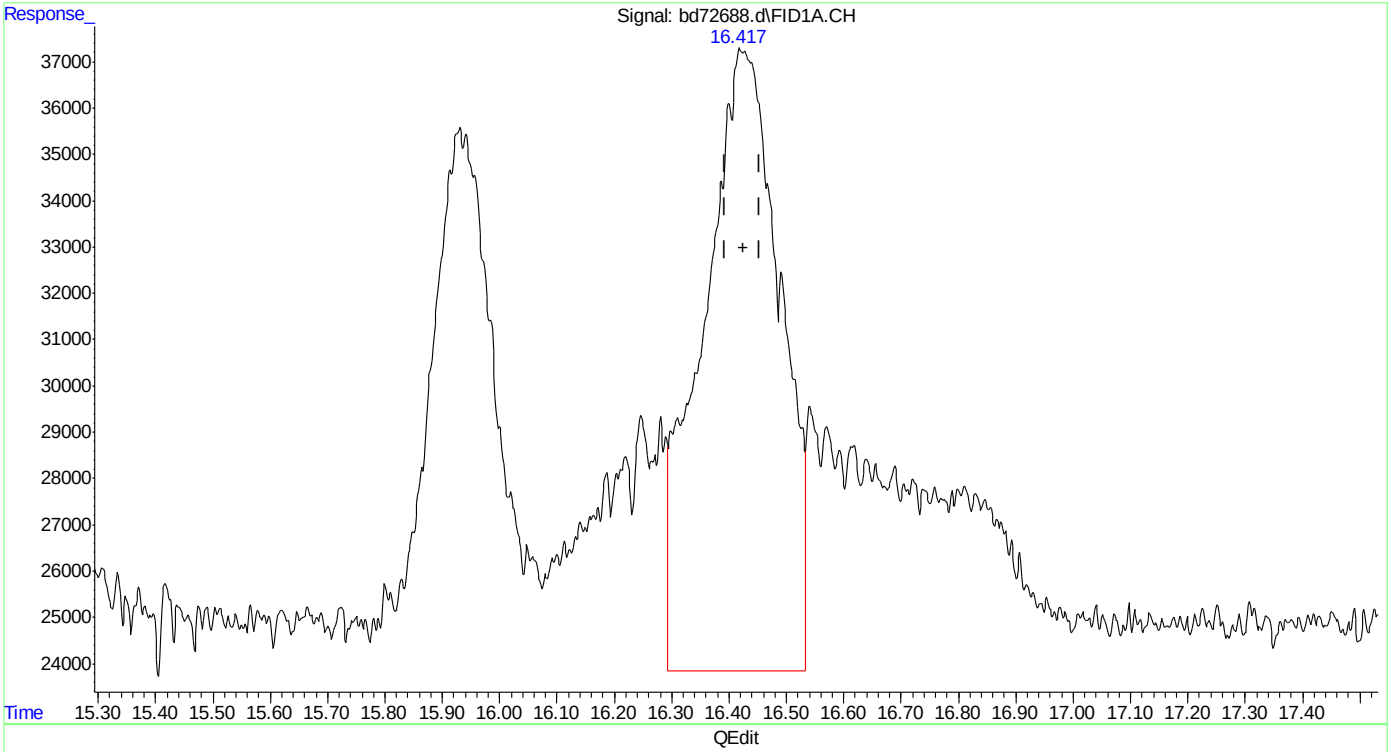
SGS ACCUTEST MC45580

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

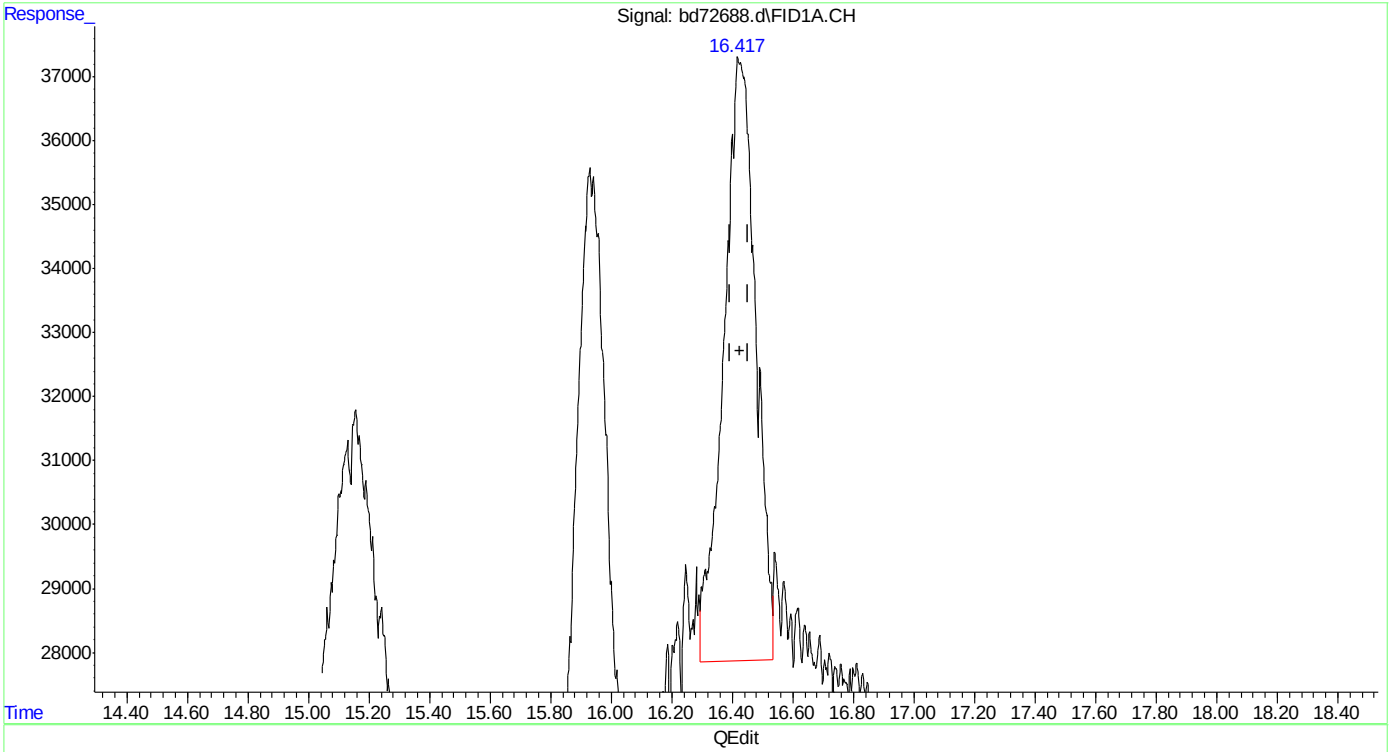
bd160219master.M Fri Feb 19 13:09:18 2016

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

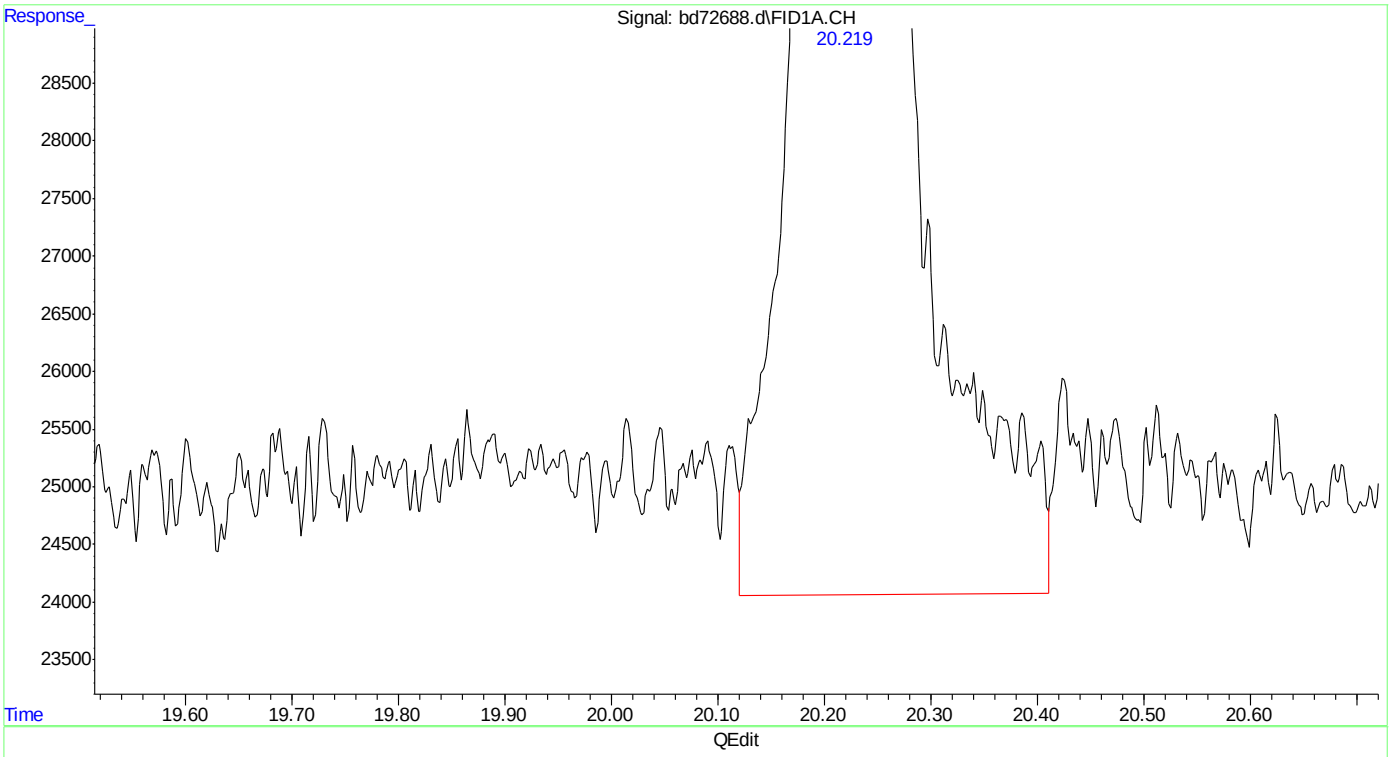
bd160219master.M Fri Feb 19 13:09:43 2016

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

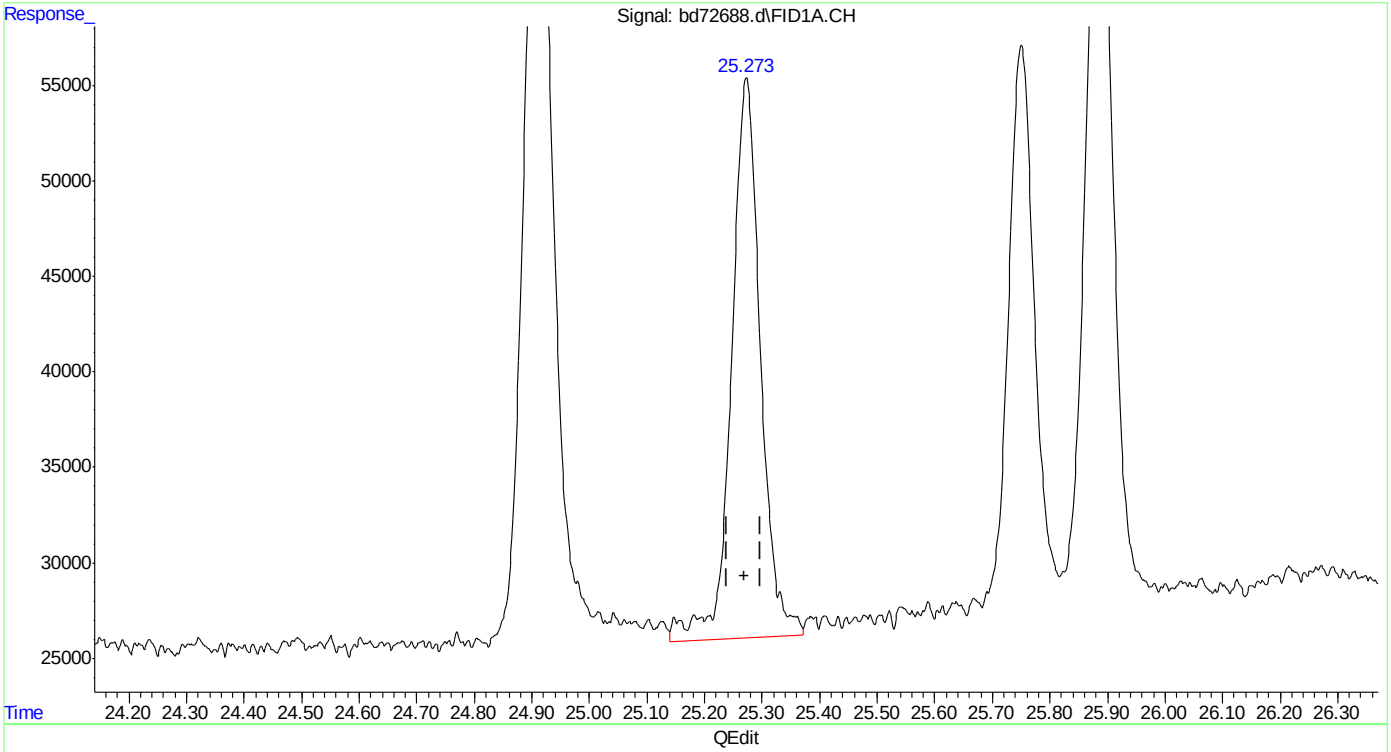
SGS ACCUTEST MC45580

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

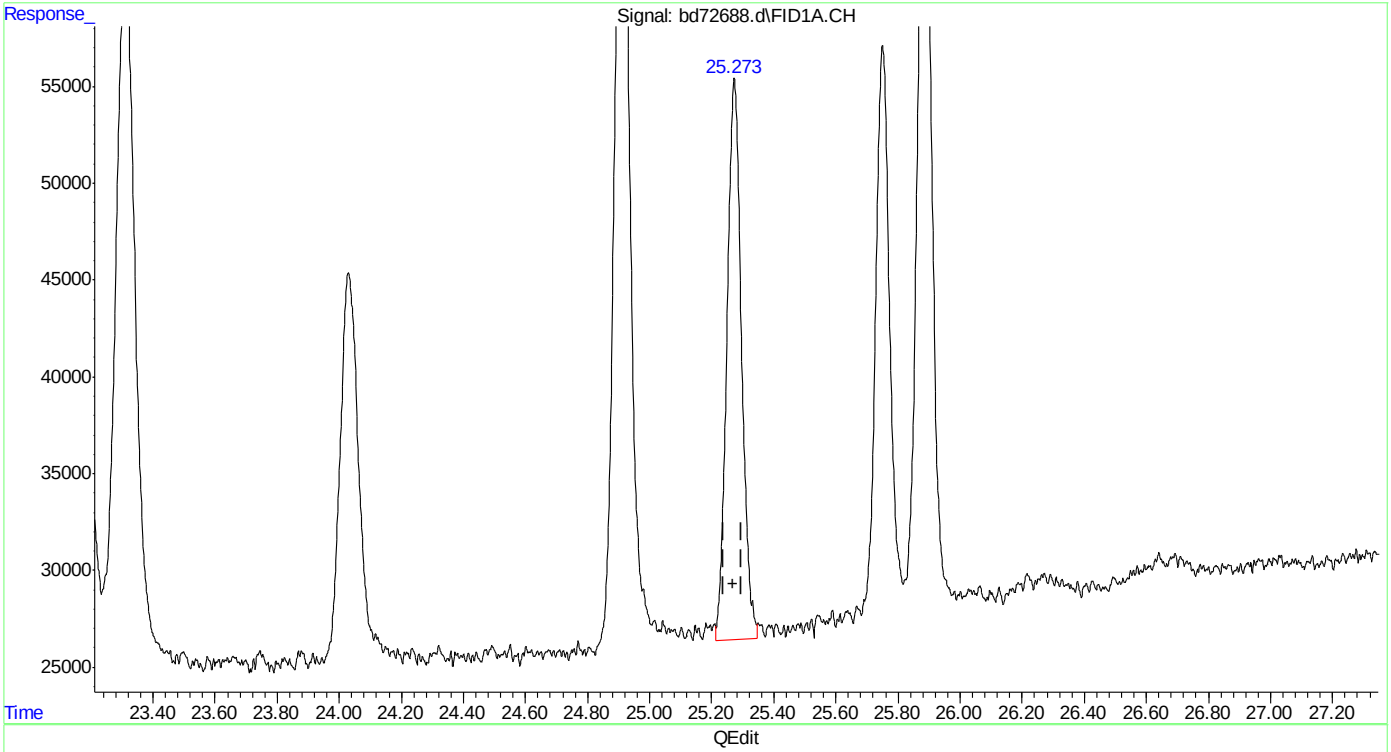
(+) = Expected Retention Time

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

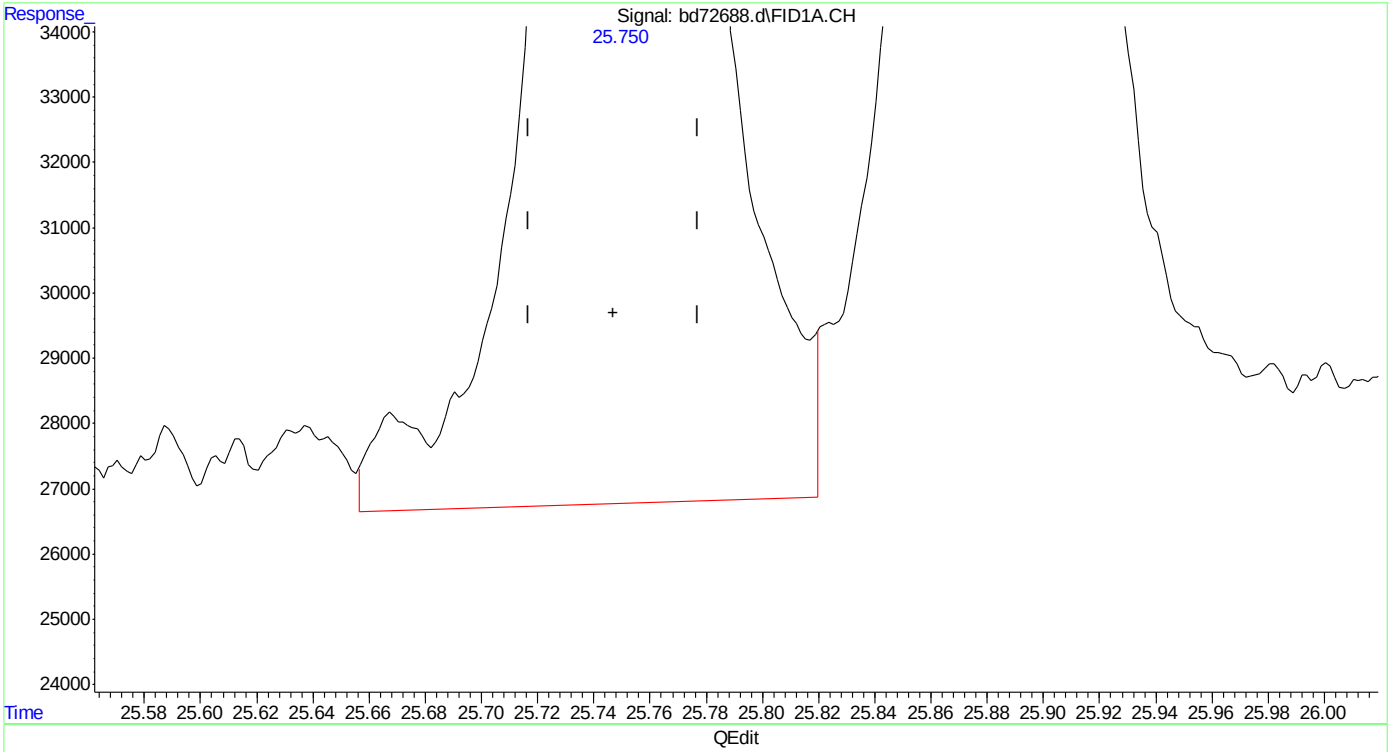
SGS ACCUTEST MC45580

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

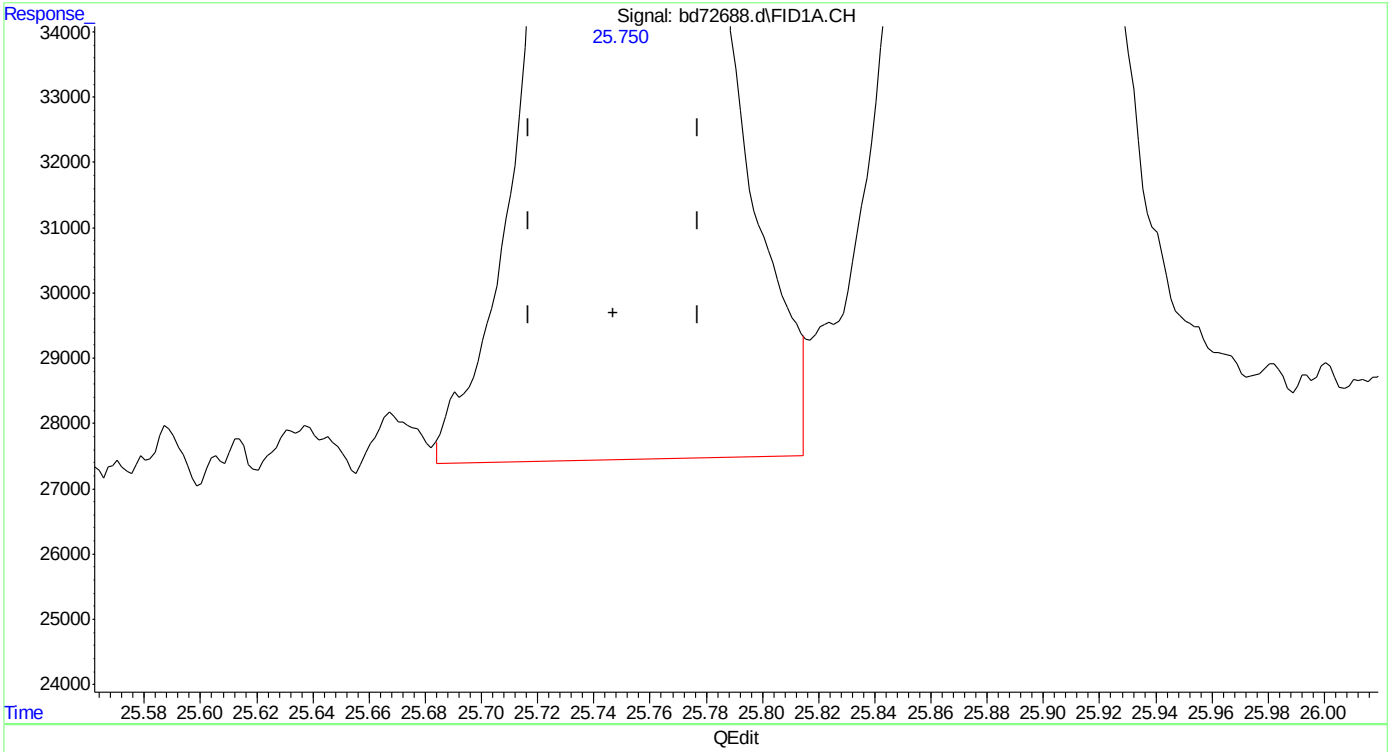
bd160219master.M Fri Feb 19 13:10:50 2016

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
25.750min 1.067 ppb m
response 938216

(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:10:59 2016

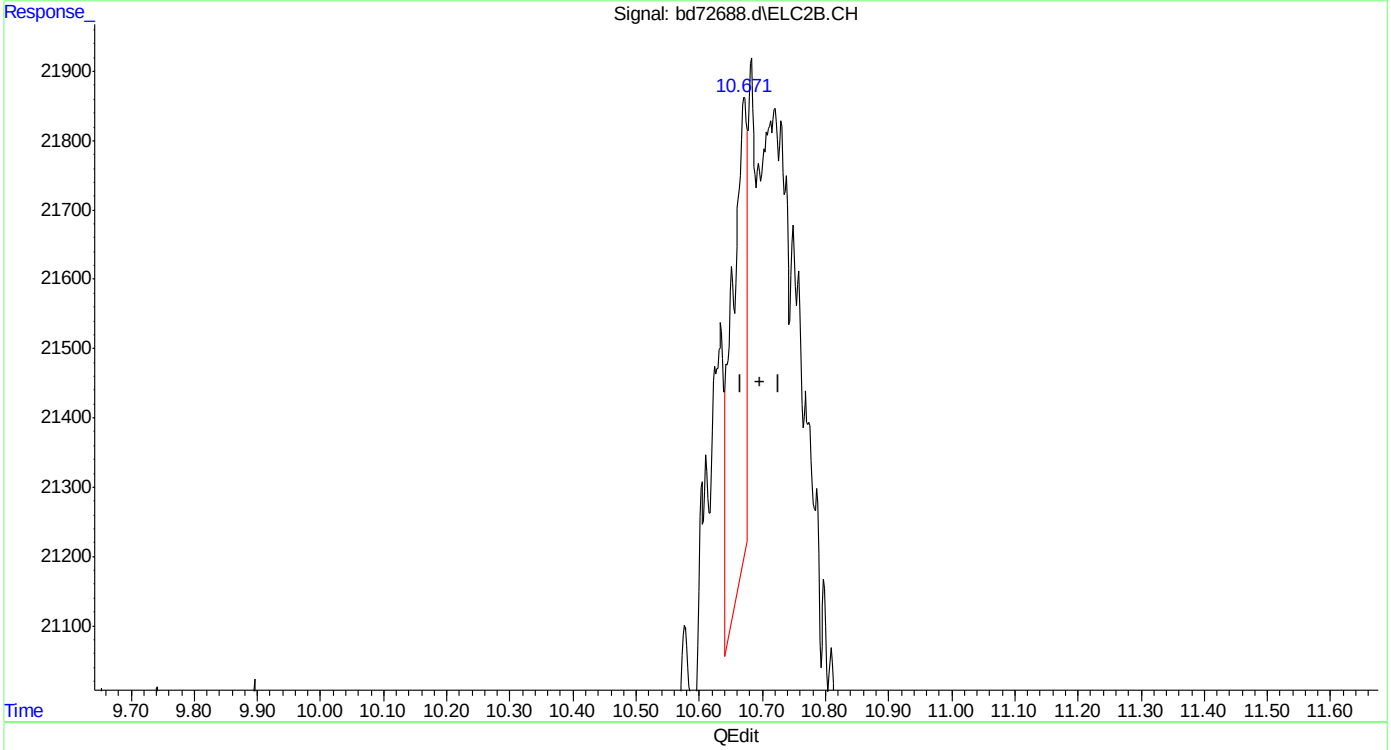
SGS ACCUTEST MC45580

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

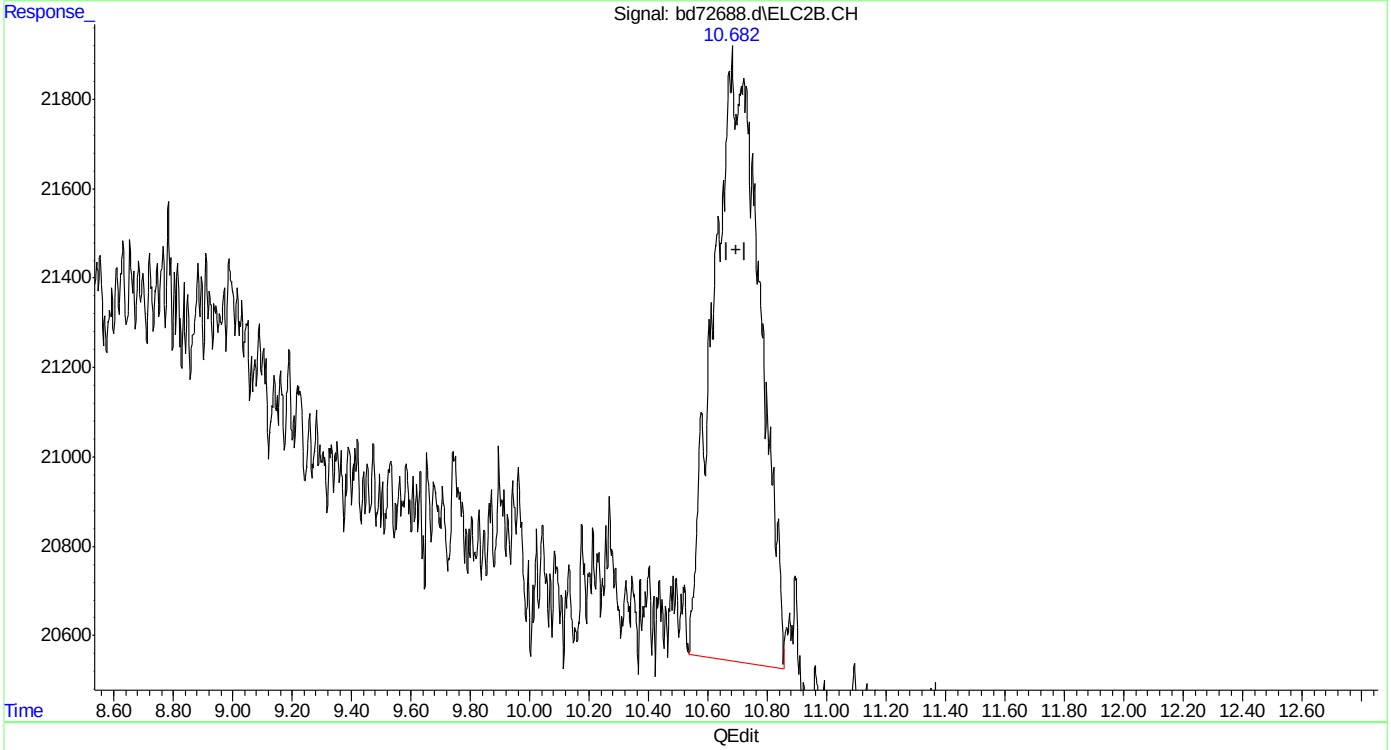
SGS ACCUTEST MC45580

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

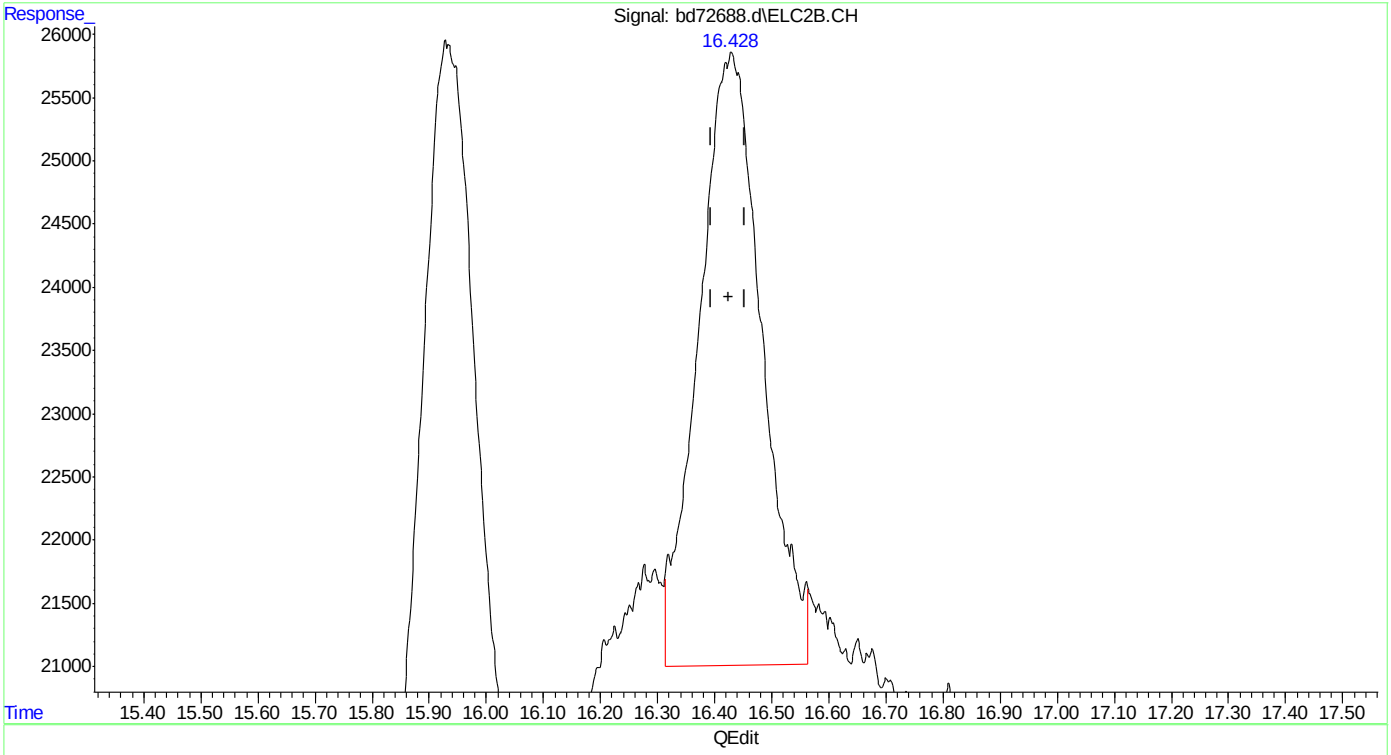
SGS ACCUTEST MC45580

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

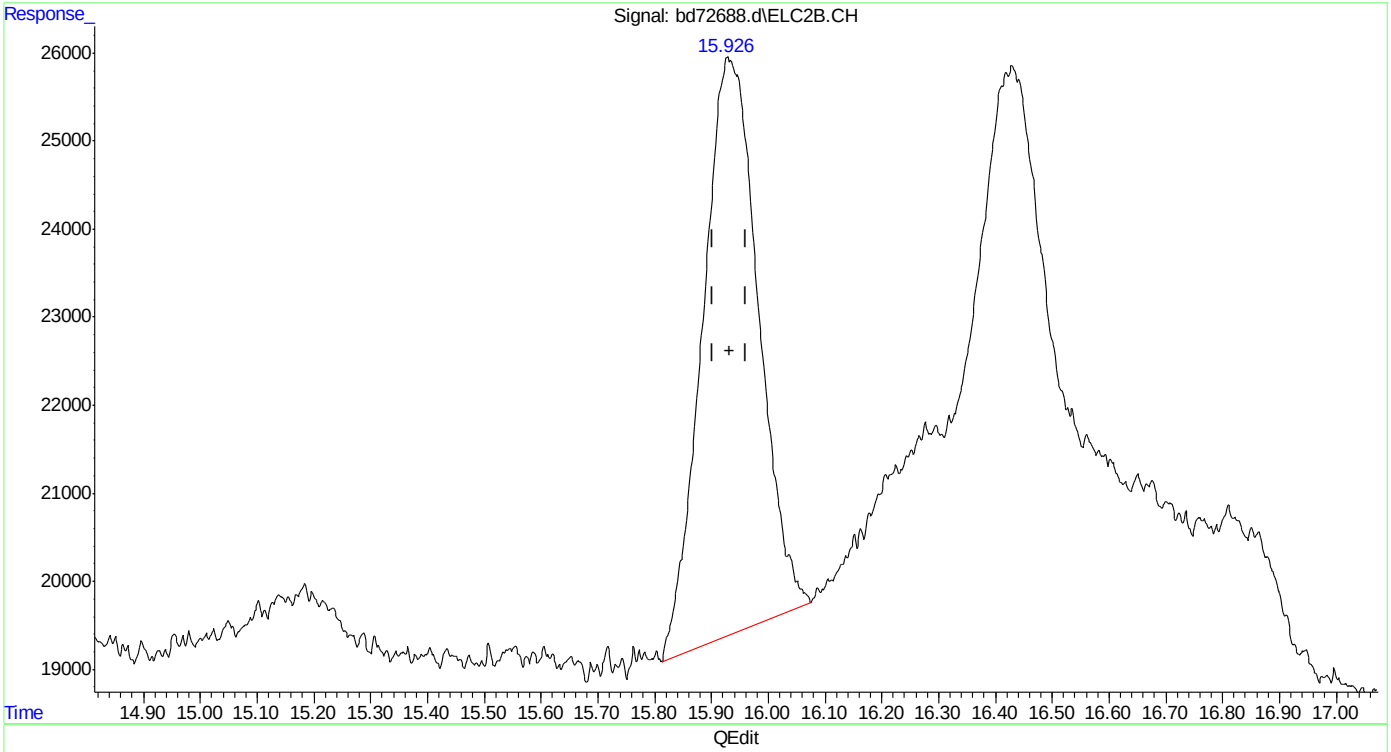
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:12:03 2016 Page: 1

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

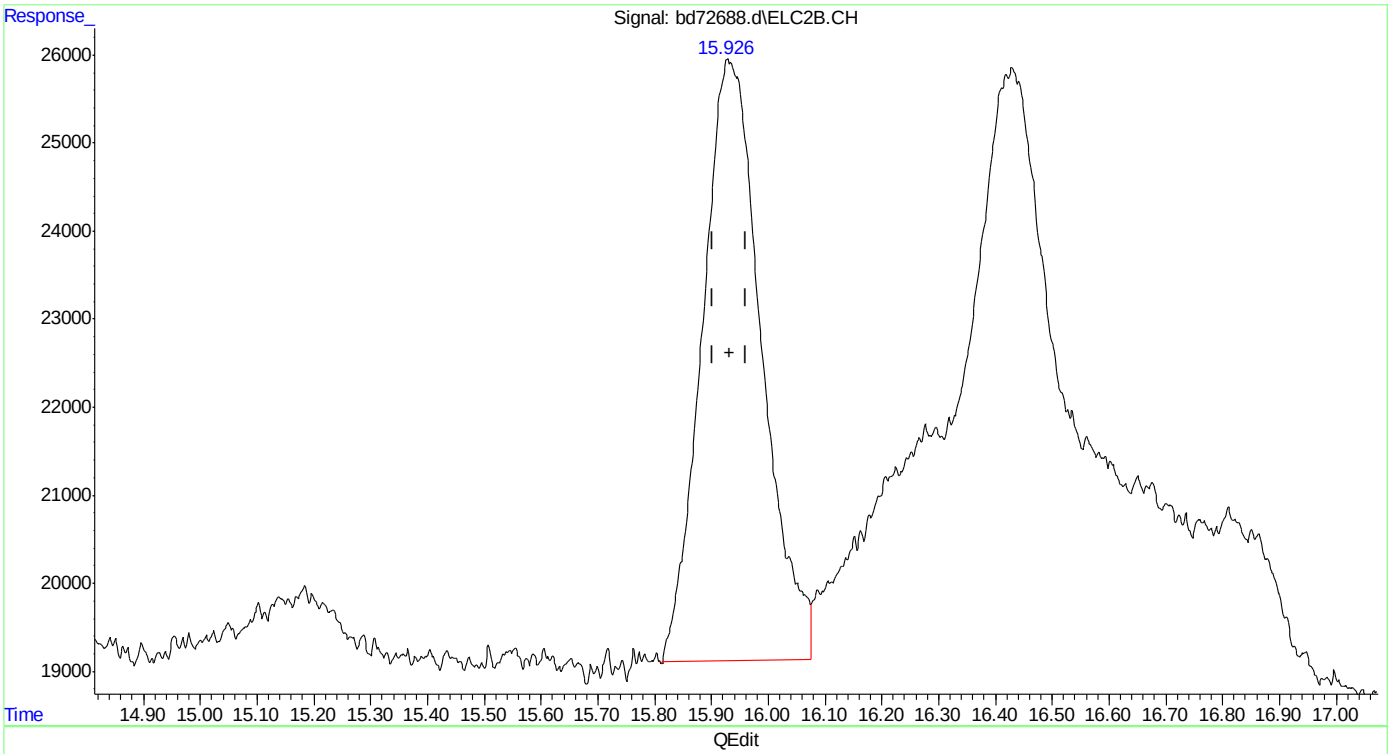
SGS ACCUTEST MC45580

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

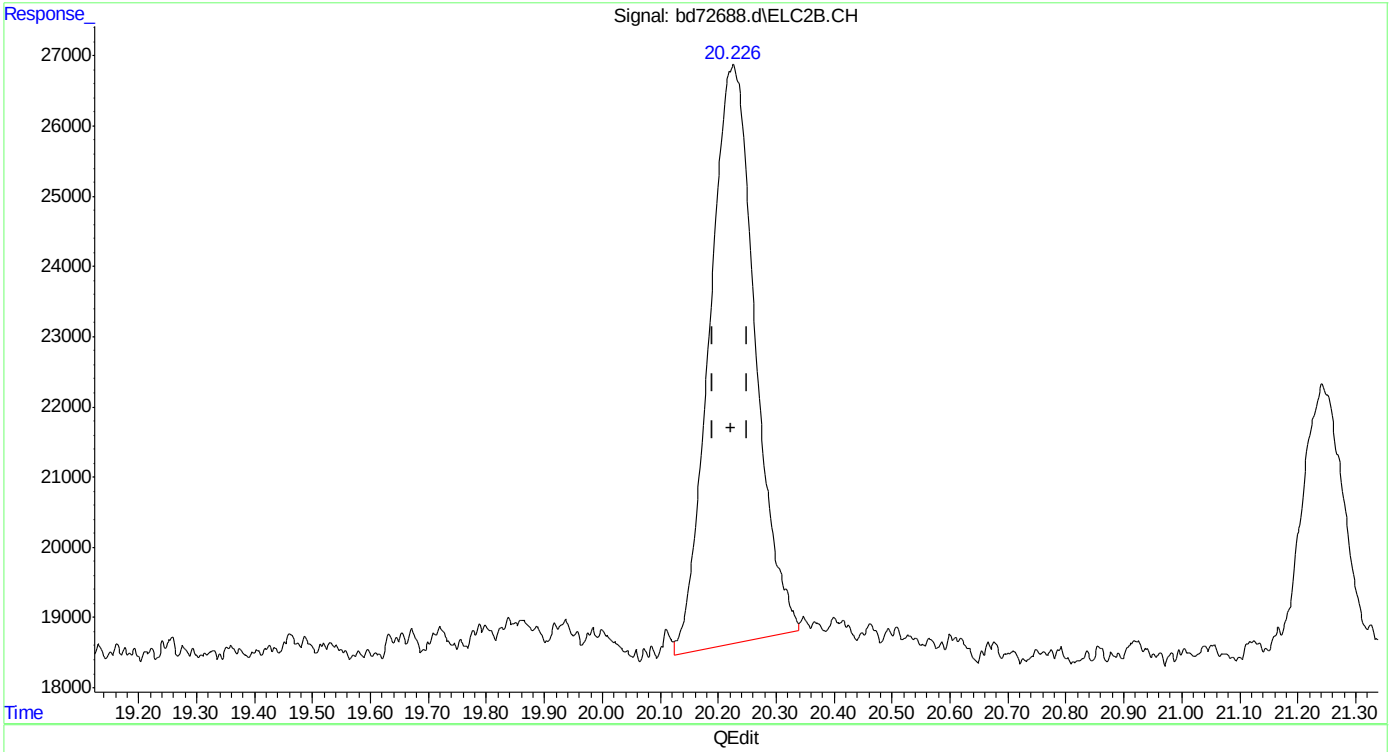
SGS ACCUTEST MC45580

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

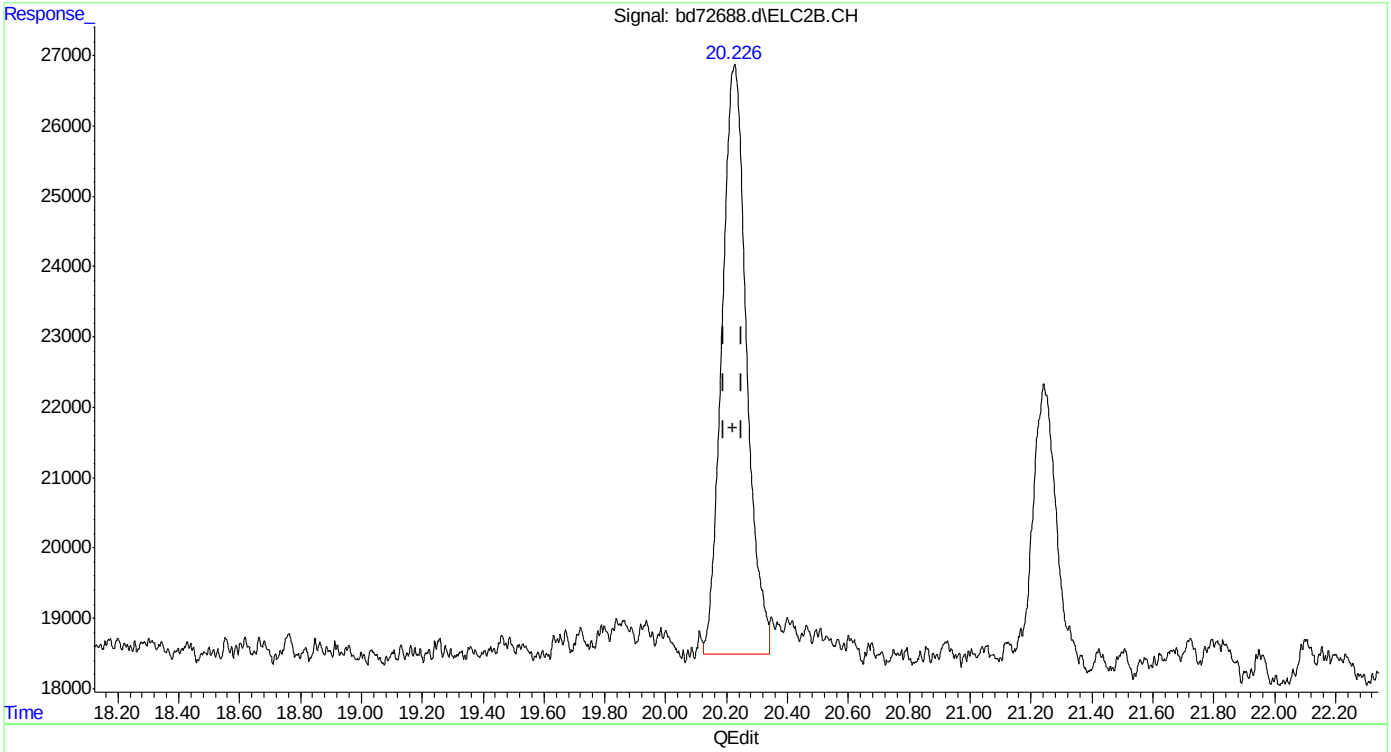
SGS ACCUTEST MC45580

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

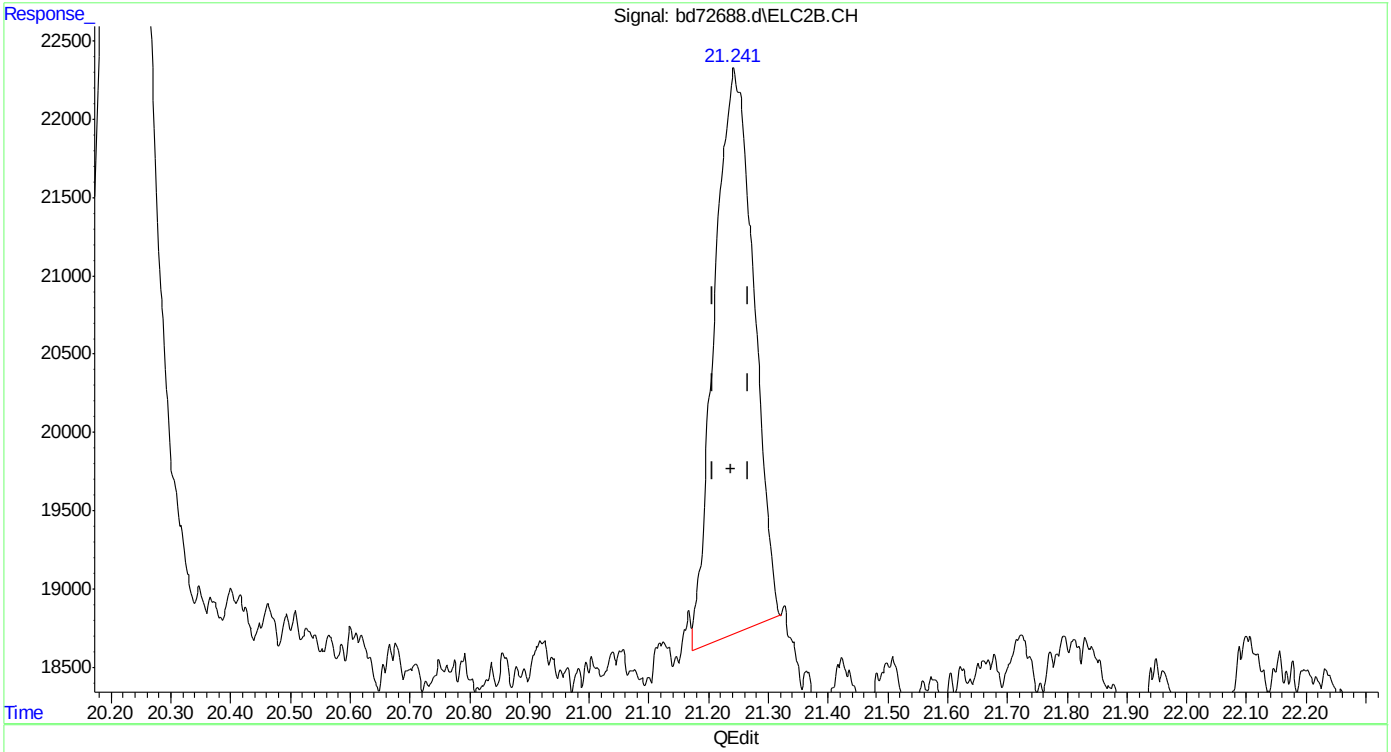
SGS ACCUTEST MC45580

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

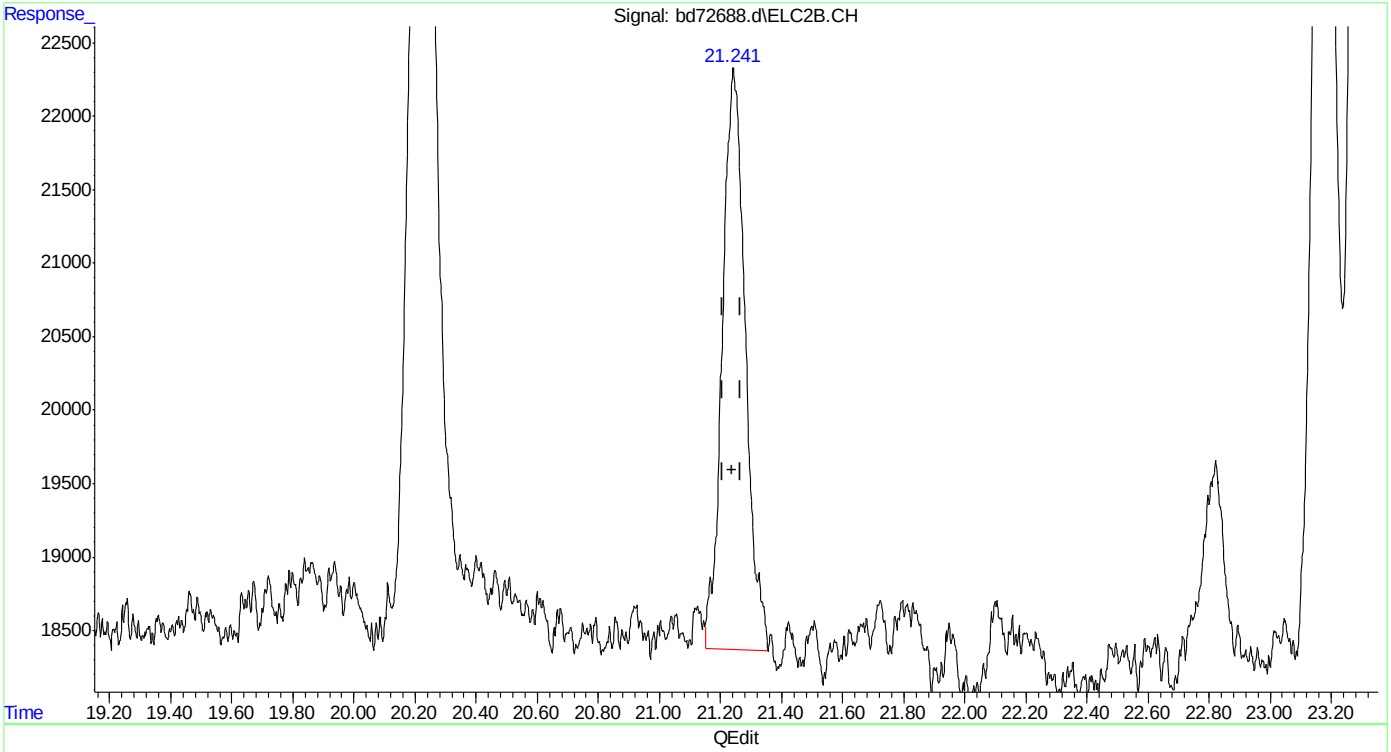
SGS ACCUTEST MC45580

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

SGS ACCUTEST MC45580

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

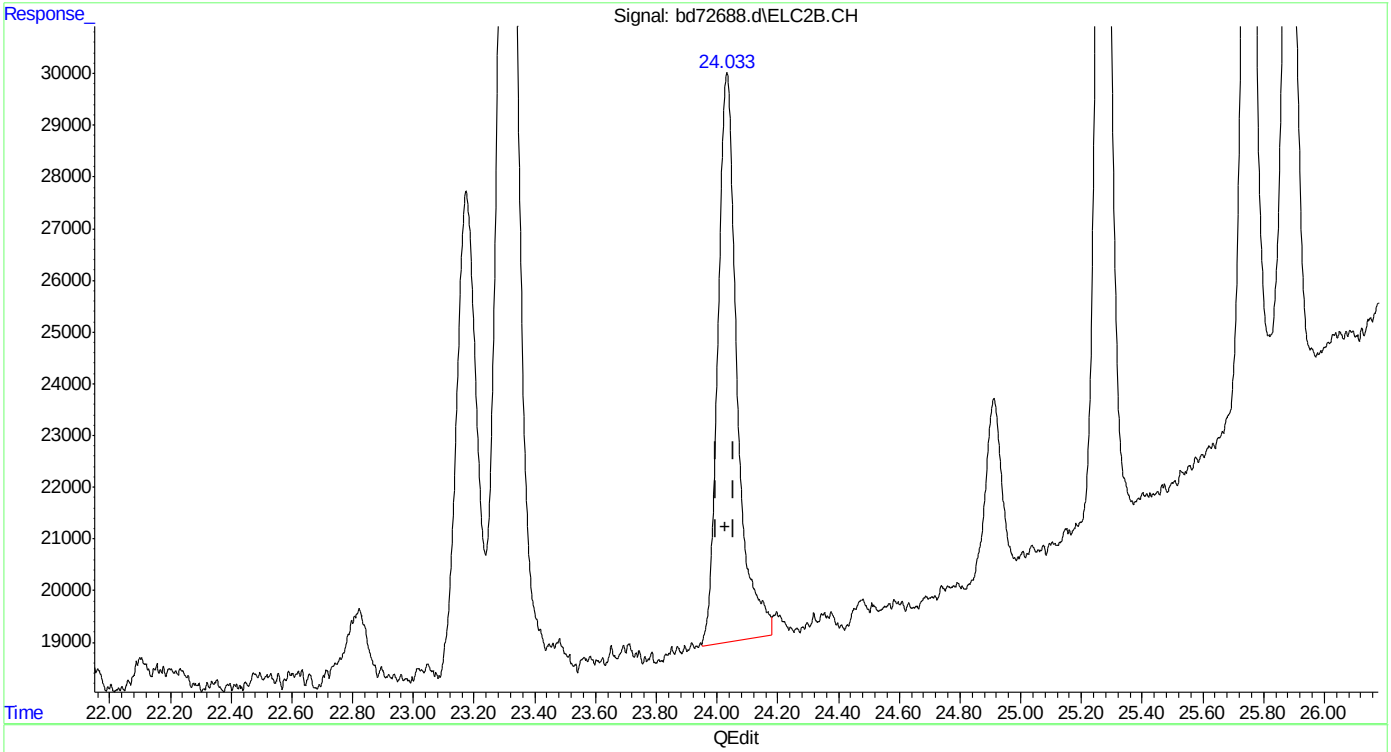
SGS ACCUTEST MC45580

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

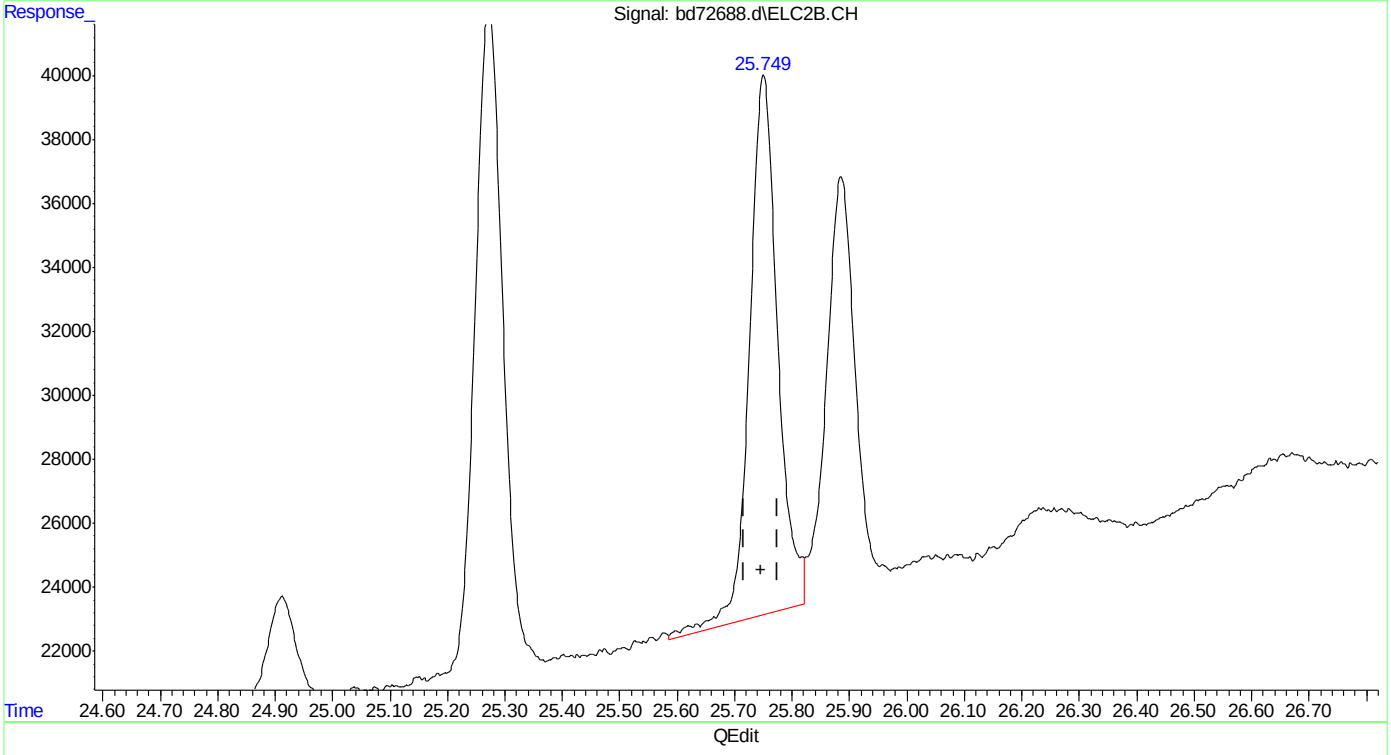
(+) = Expected Retention Time
bd160219master.M Fri Feb 19 13:13:00 2016

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

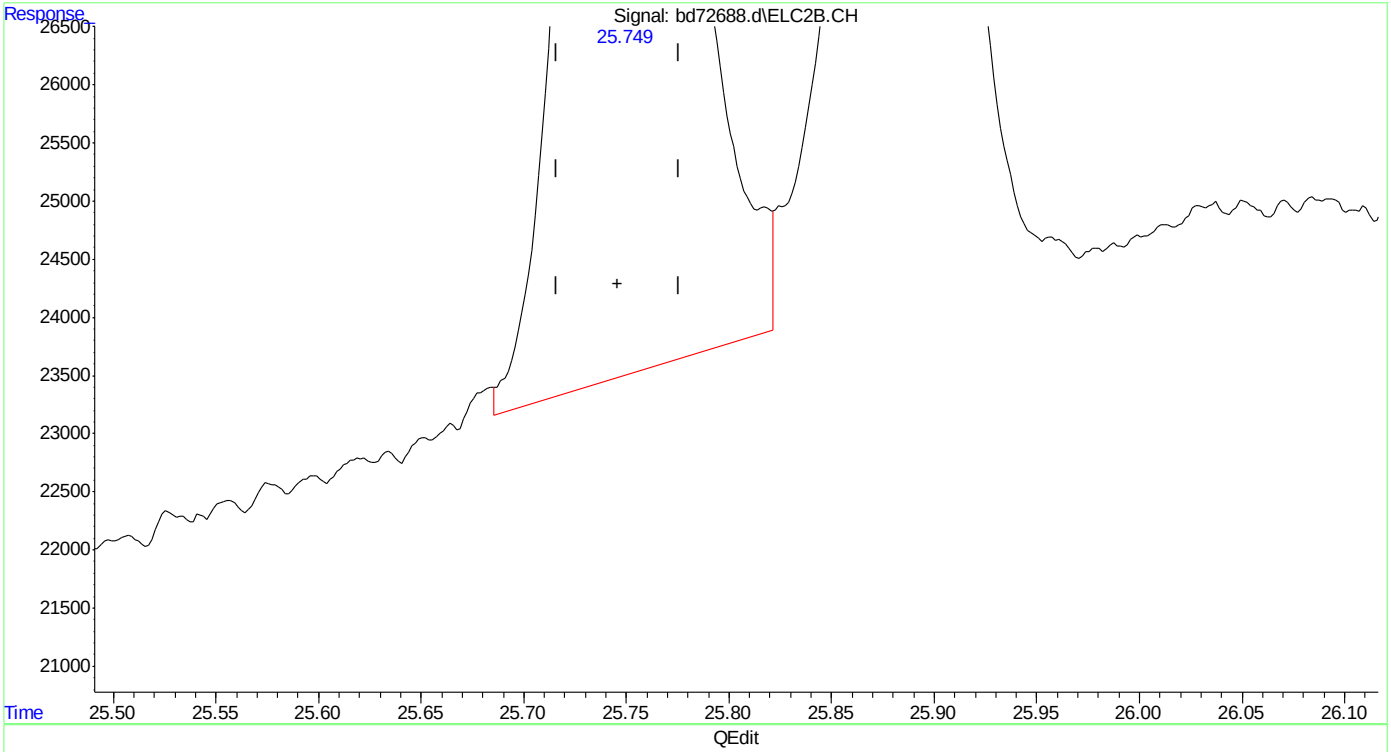
SGS ACCUTEST MC45580

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

SGS ACCUTEST MC45580

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

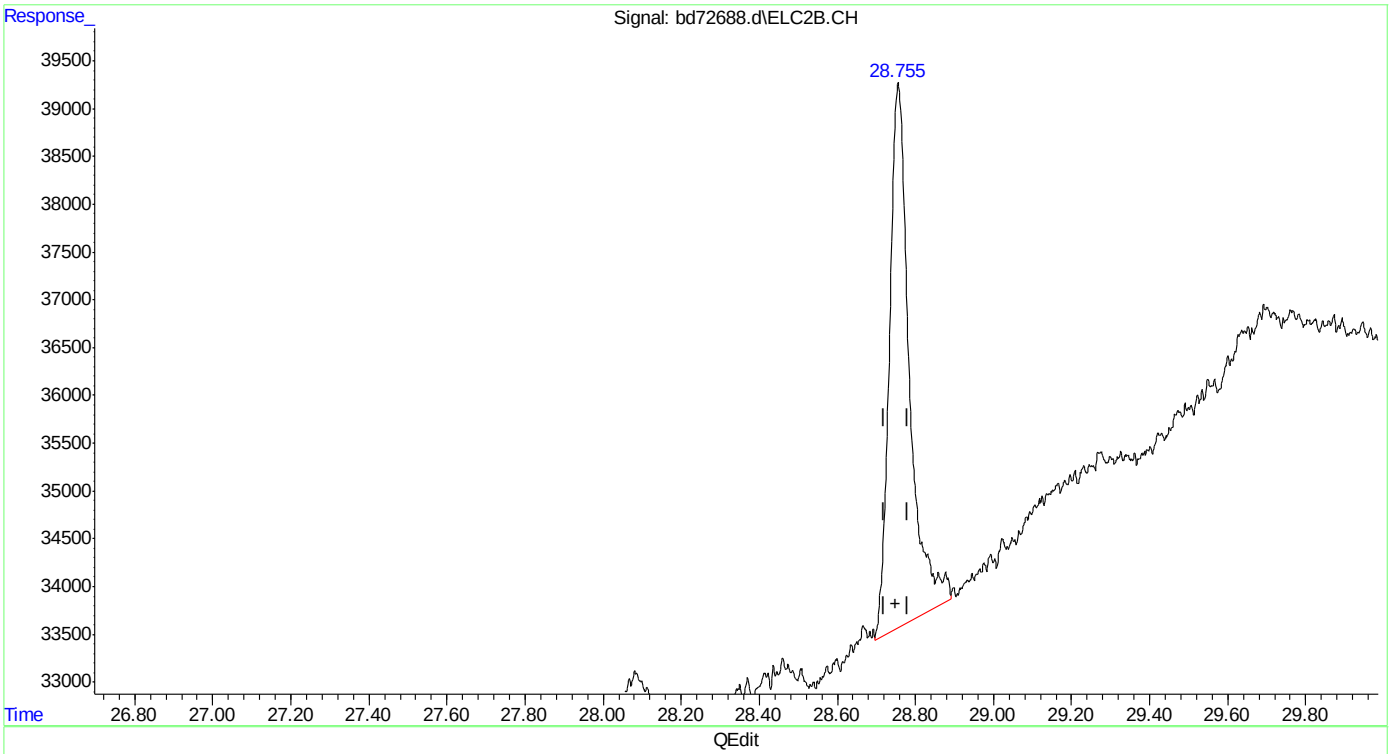
SGS ACCUTEST MC45580

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

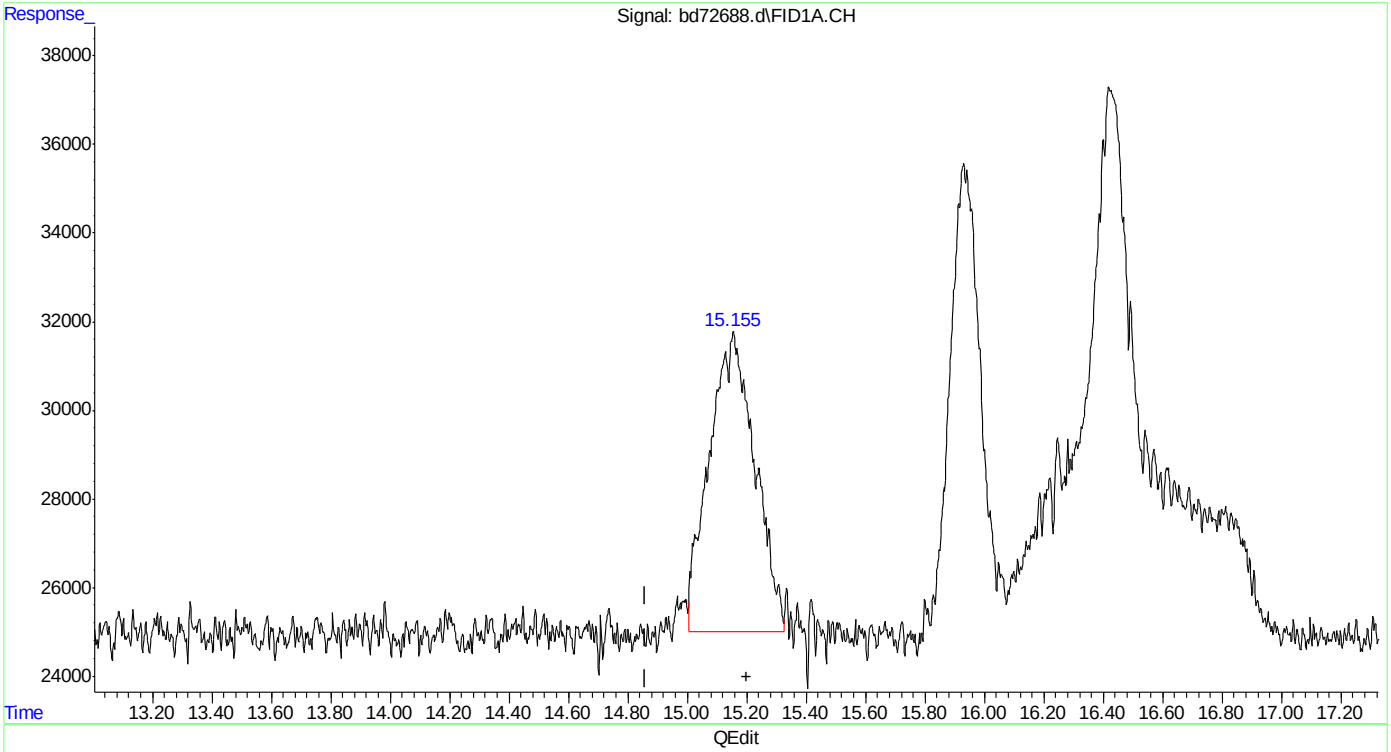
bd160219master.M Fri Feb 19 13:13:37 2016

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

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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.

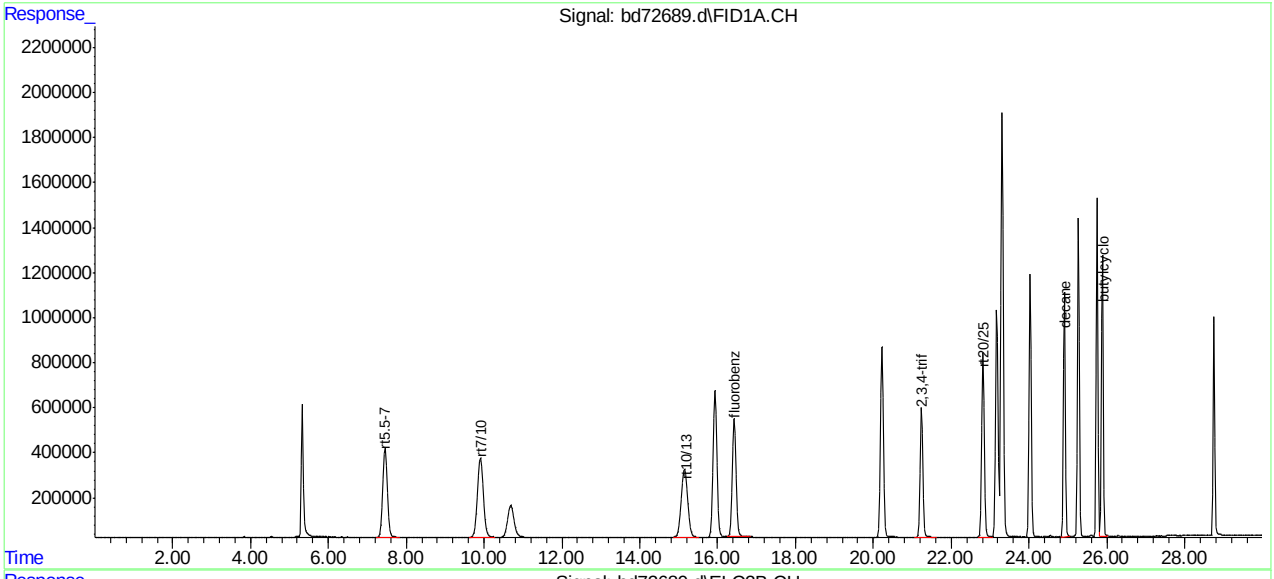
7.5.10
7

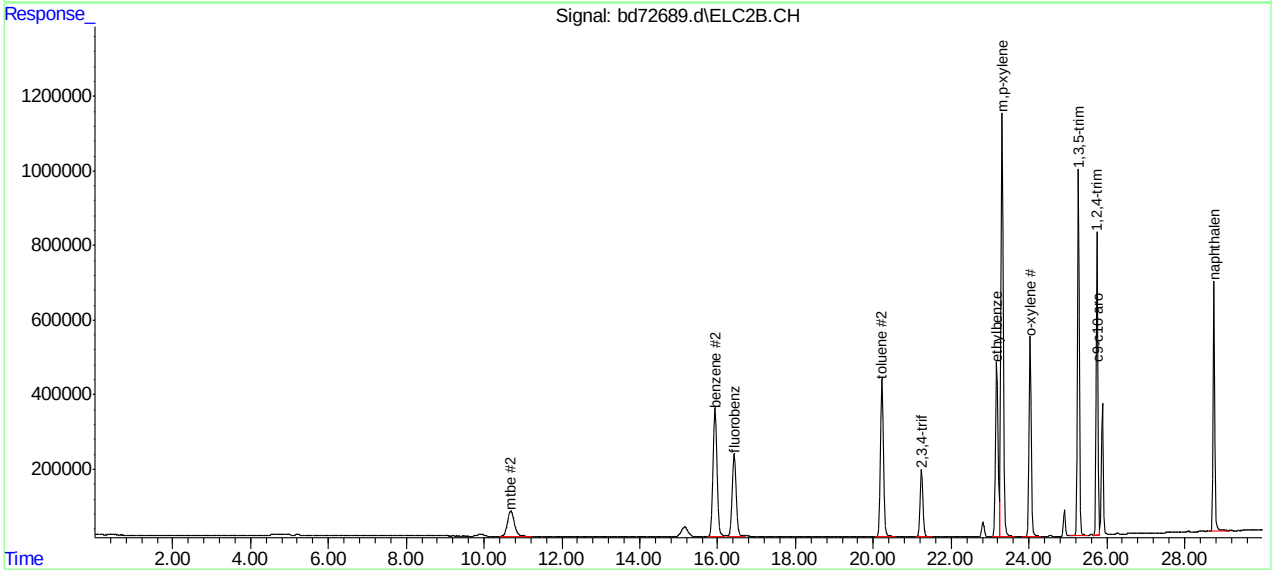
Quantitation Report (QT Reviewed)

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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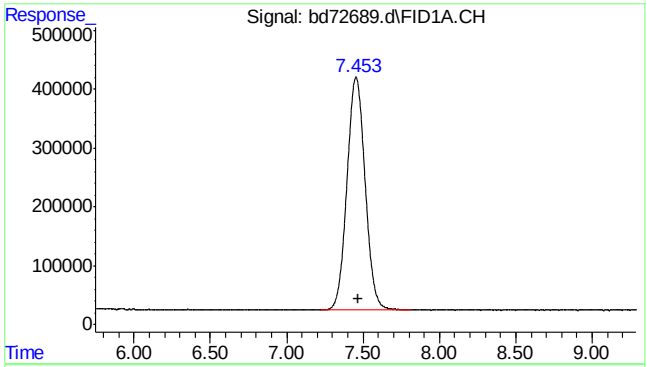
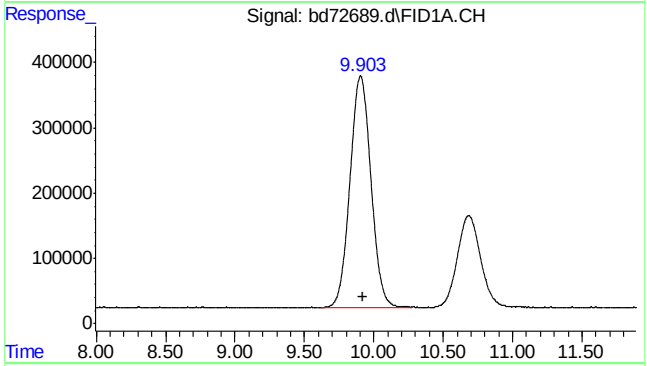


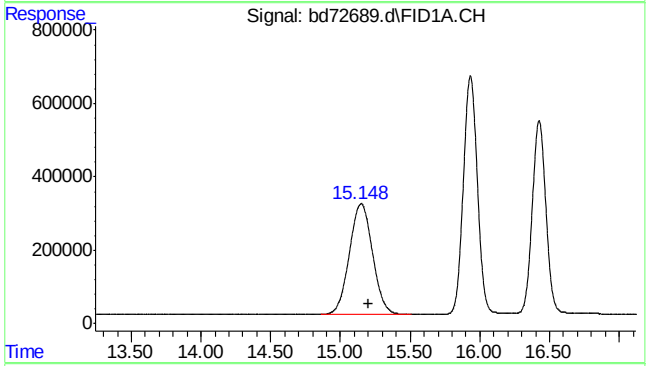
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 32771312
Conc: 53.14 ppb m



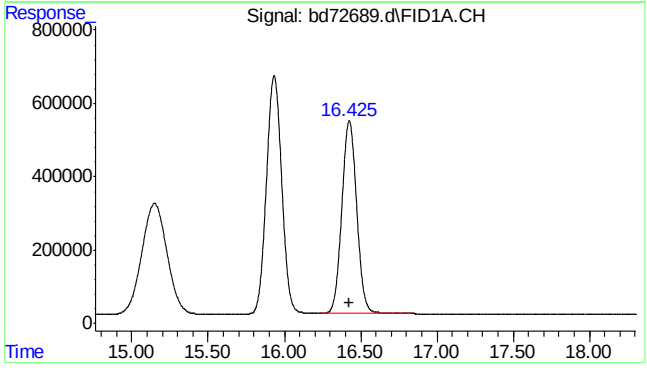
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 37519205
Conc: 60.83 ppb m



#3 rt10/13

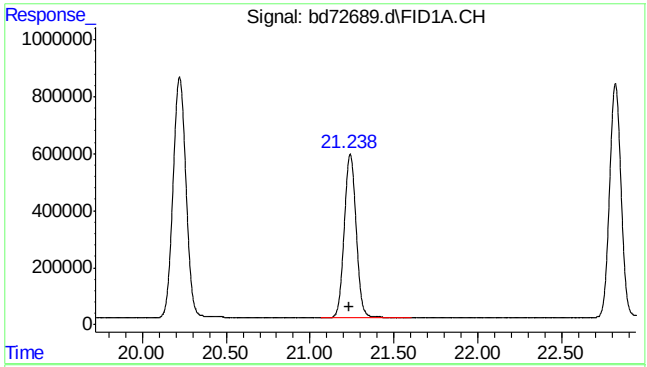
R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 36582580
Conc: 59.32 ppb m



#4 fluorobenzene

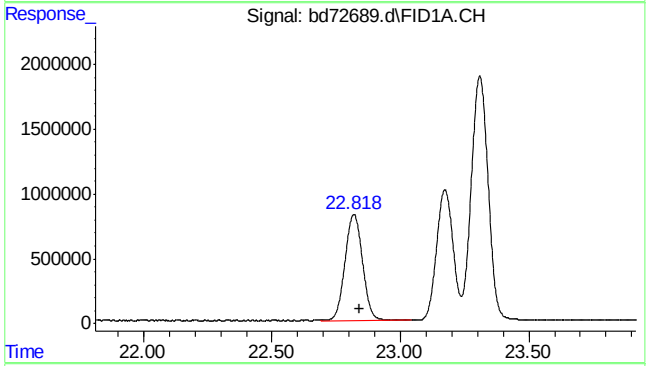
R.T.: 16.425 min
Delta R.T.: 0.000 min
Response: 35571927
Conc: 52.28 ppb m

SGS ACCUTEST MC45580



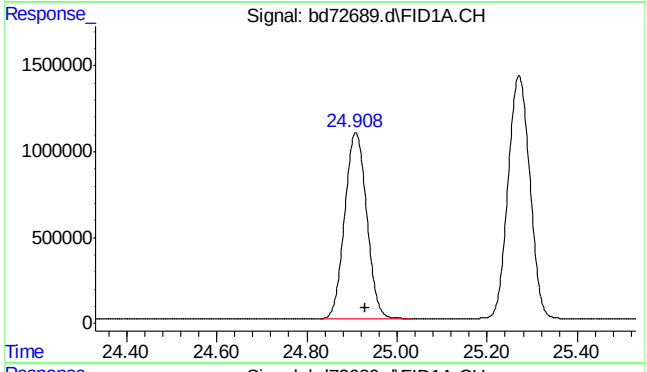
#6 2,3,4-trifluorotoluene

R.T.: 21.239 min
Delta R.T.: 0.002 min
Response: 28429901
Conc: 54.57 ppb



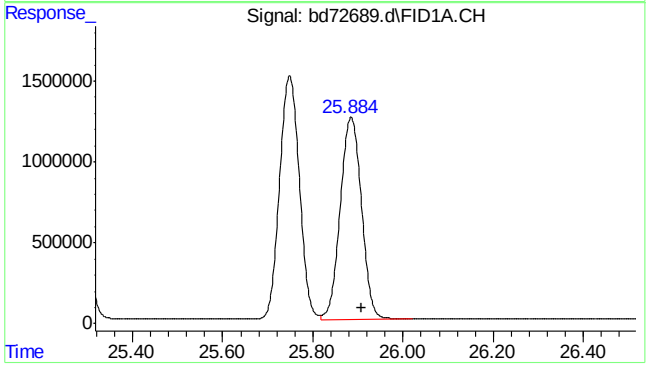
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 38978420
Conc: 48.71 ppb m



#10 decane

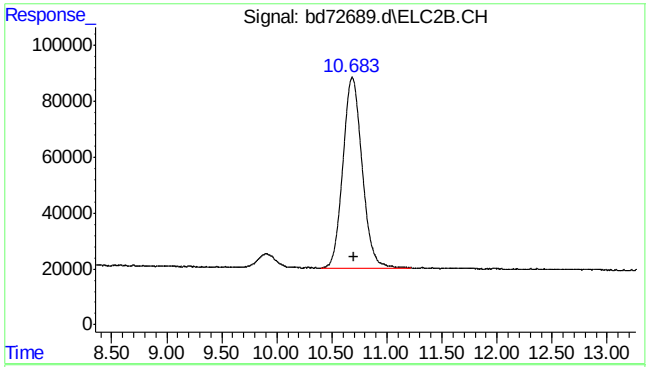
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 37220553
Conc: 46.51 ppb



#11 butylcyclohexane

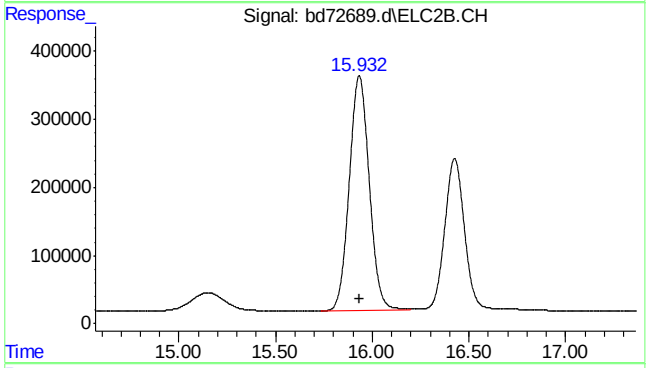
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 41168976
Conc: 51.45 ppb

SGS ACCUTEST MC45580



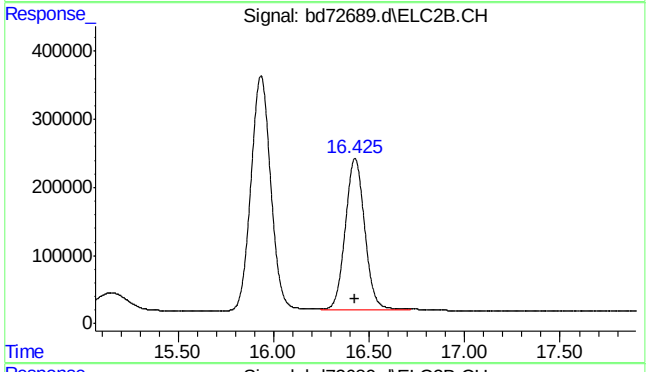
#14 mtbe #2

R.T.: 10.683 min
Delta R.T.: -0.013 min
Response: 8283695
Conc: 53.75 ppb m



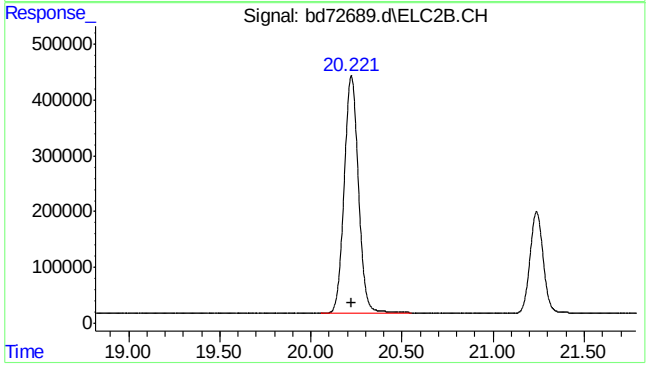
#15 benzene #2

R.T.: 15.932 min
Delta R.T.: 0.000 min
Response: 24916343
Conc: 51.52 ppb



#16 fluorobenzene #2

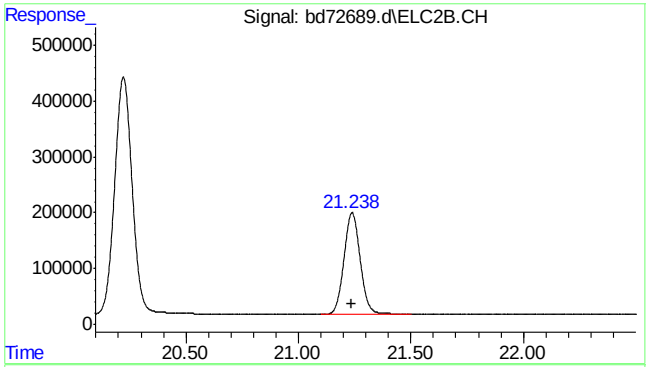
R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 15798777
Conc: 46.57 ppb



#17 toluene #2

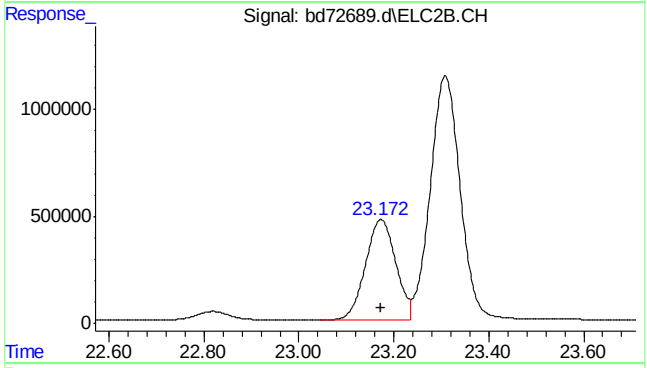
R.T.: 20.222 min
Delta R.T.: 0.000 min
Response: 23146349
Conc: 51.13 ppb

SGS ACCUTEST MC45580



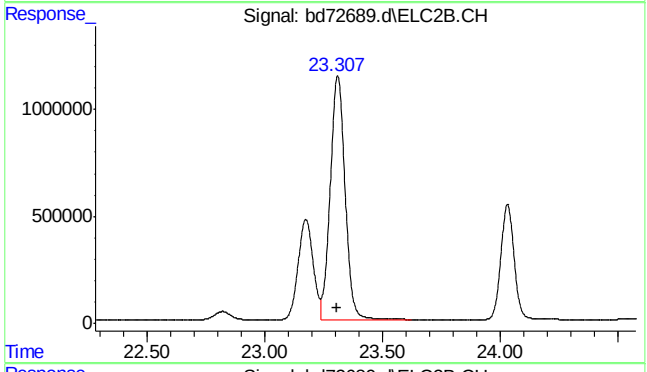
#18 2,3,4-trifluorotoluene #2

R.T.: 21.238 min
Delta R.T.: 0.002 min
Response: 9231850
Conc: 46.90 ppb



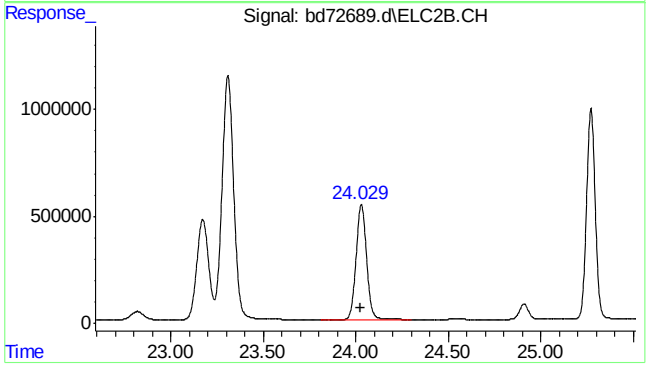
#19 ethylbenzene #2

R.T.: 23.173 min
Delta R.T.: 0.000 min
Response: 20751208
Conc: 50.00 ppb



#20 m,p-xylene #2

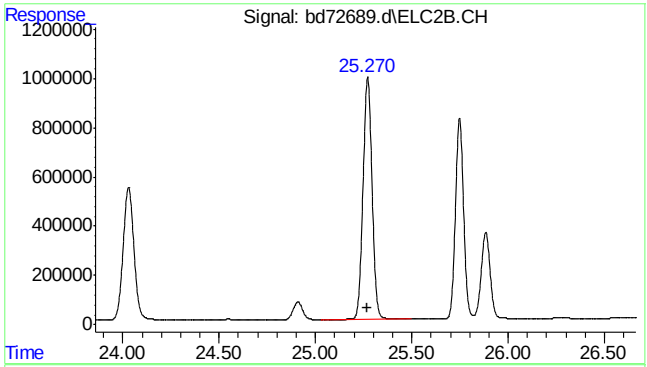
R.T.: 23.309 min
Delta R.T.: 0.002 min
Response: 49993765
Conc: 100.30 ppb



#21 o-xylene #2

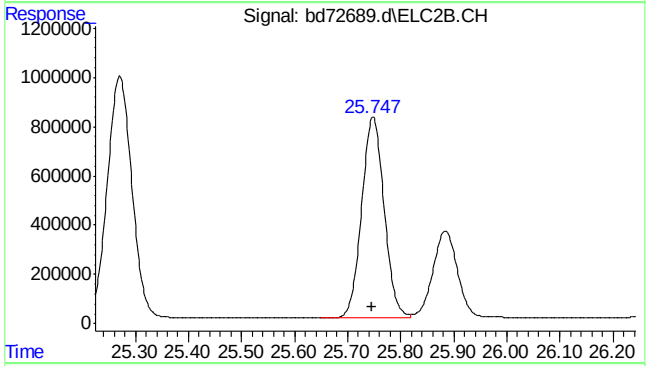
R.T.: 24.030 min
Delta R.T.: 0.002 min
Response: 21057643
Conc: 48.43 ppb

SGS ACCUTEST MC45580



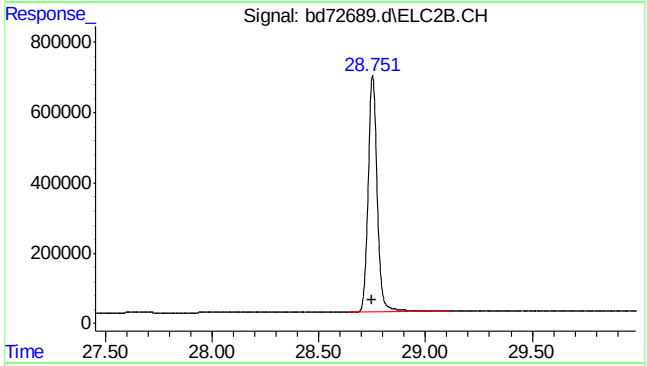
#22 1,3,5-trimethylbenzene #2

R.T.: 25.271 min
Delta R.T.: 0.003 min
Response: 32008982
Conc: 47.70 ppb



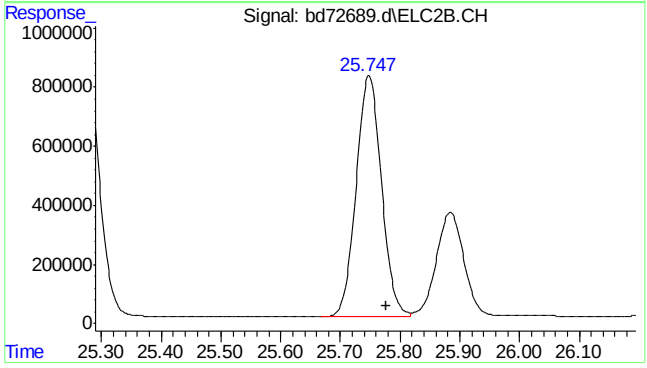
#23 1,2,4-trimethylbenzene #2

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

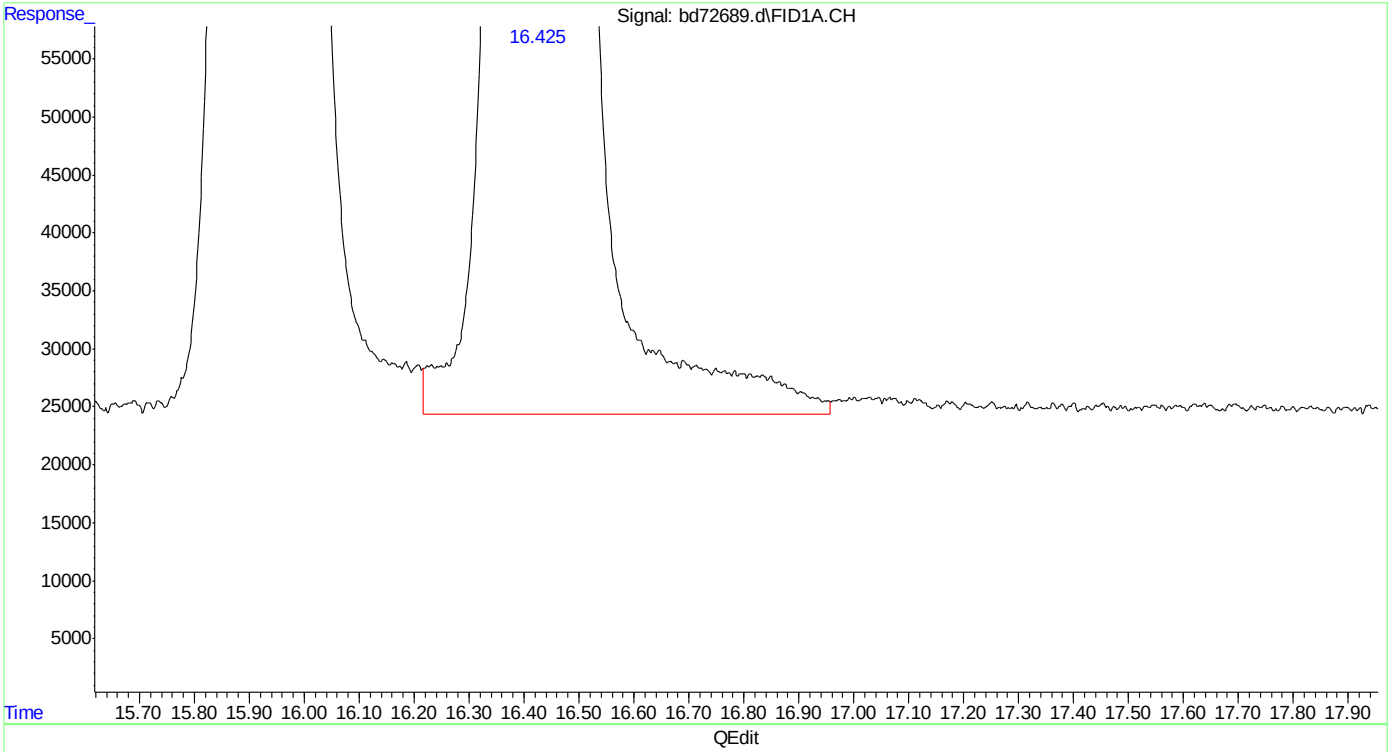
SGS ACCUTEST MC45580

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

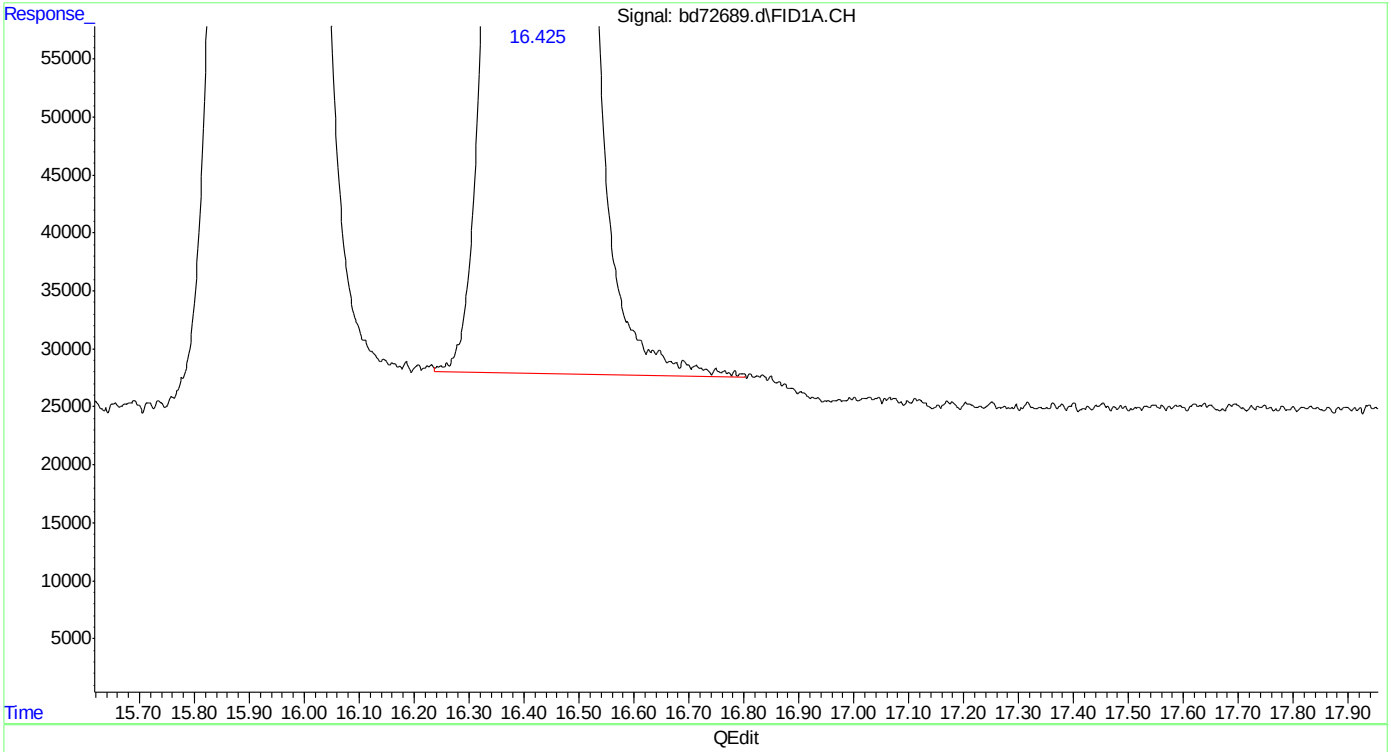
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:25 2016

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

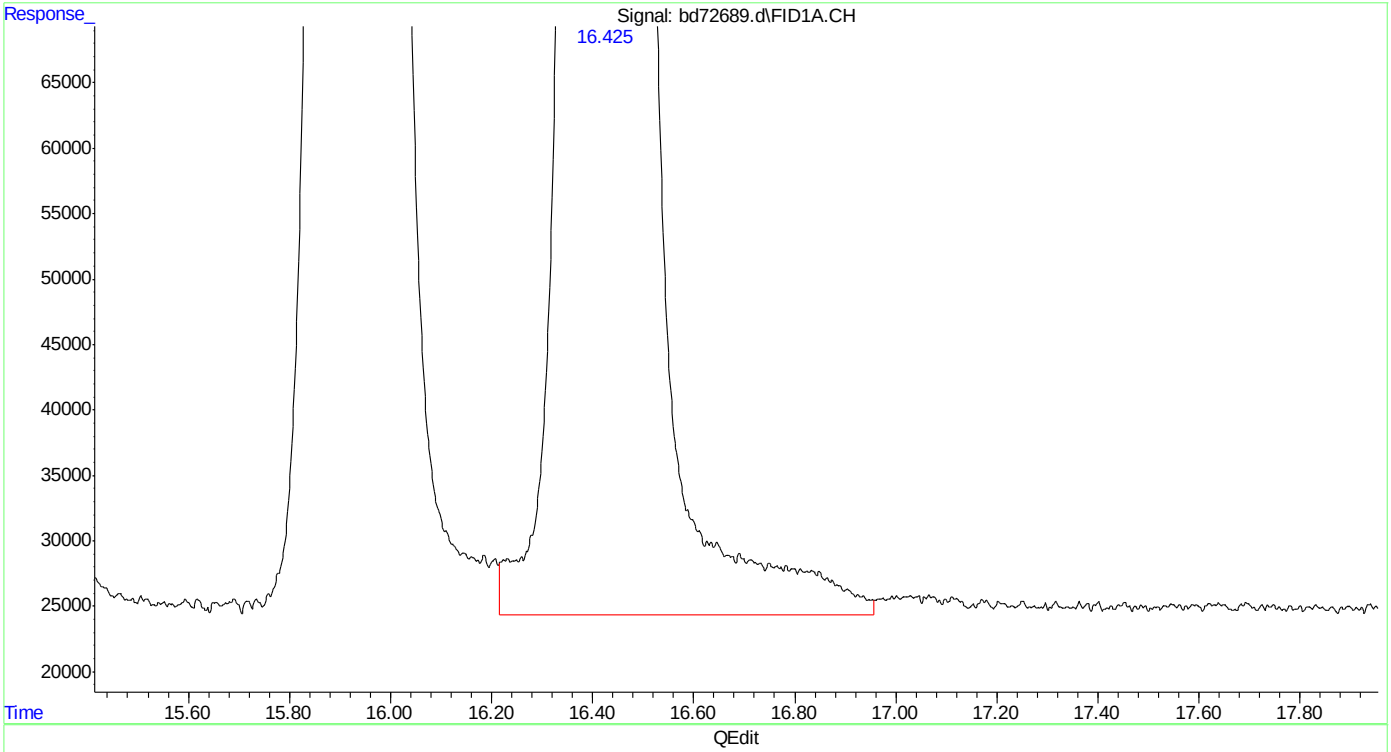
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:50:30 2016

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

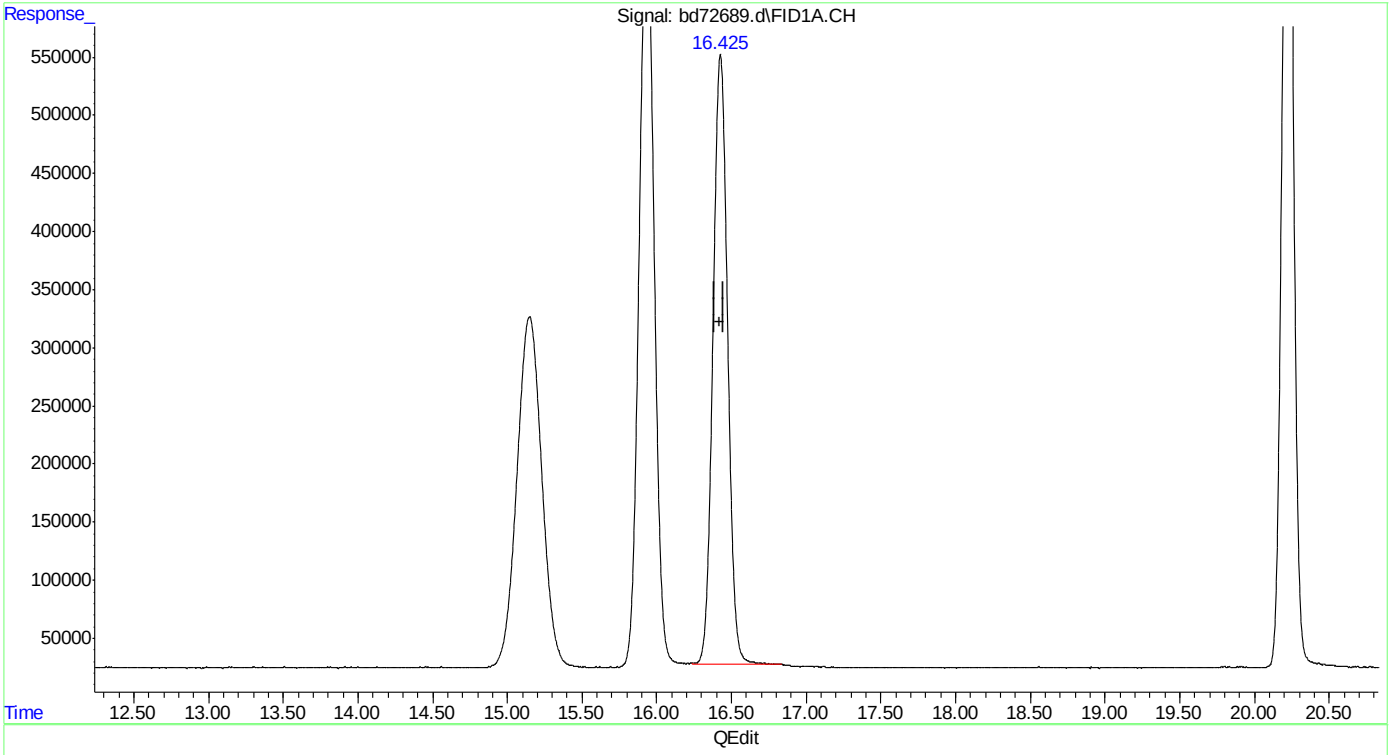
SGS ACCUTEST MC45580

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

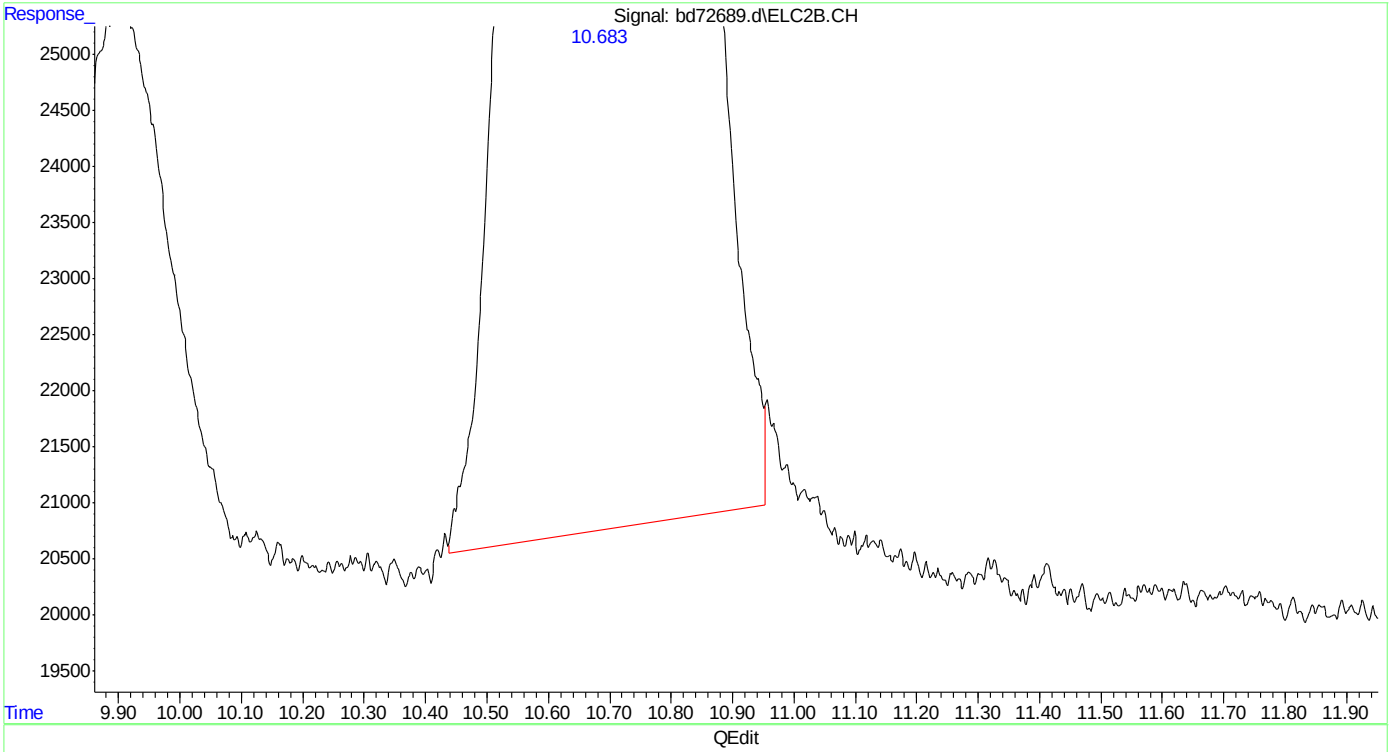
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:51:36 2016

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

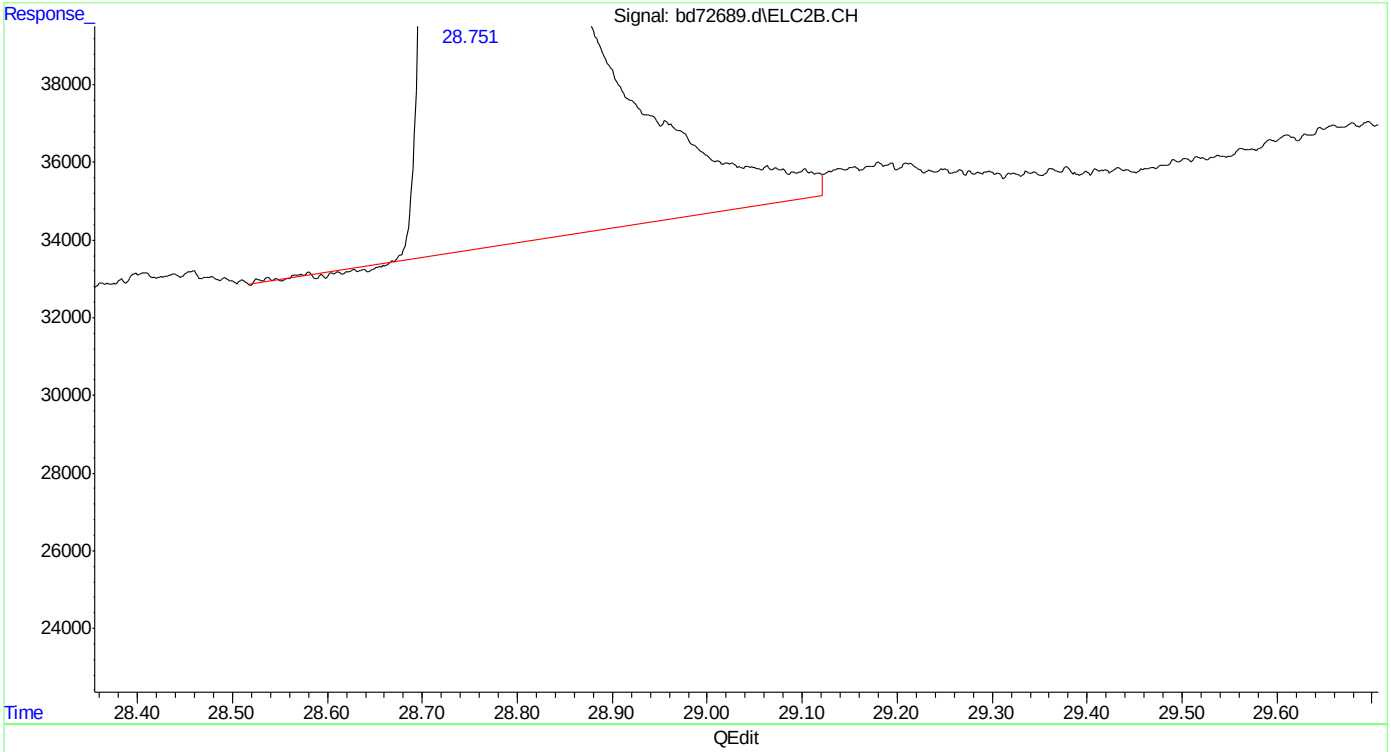
SGS ACCUTEST MC45580

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

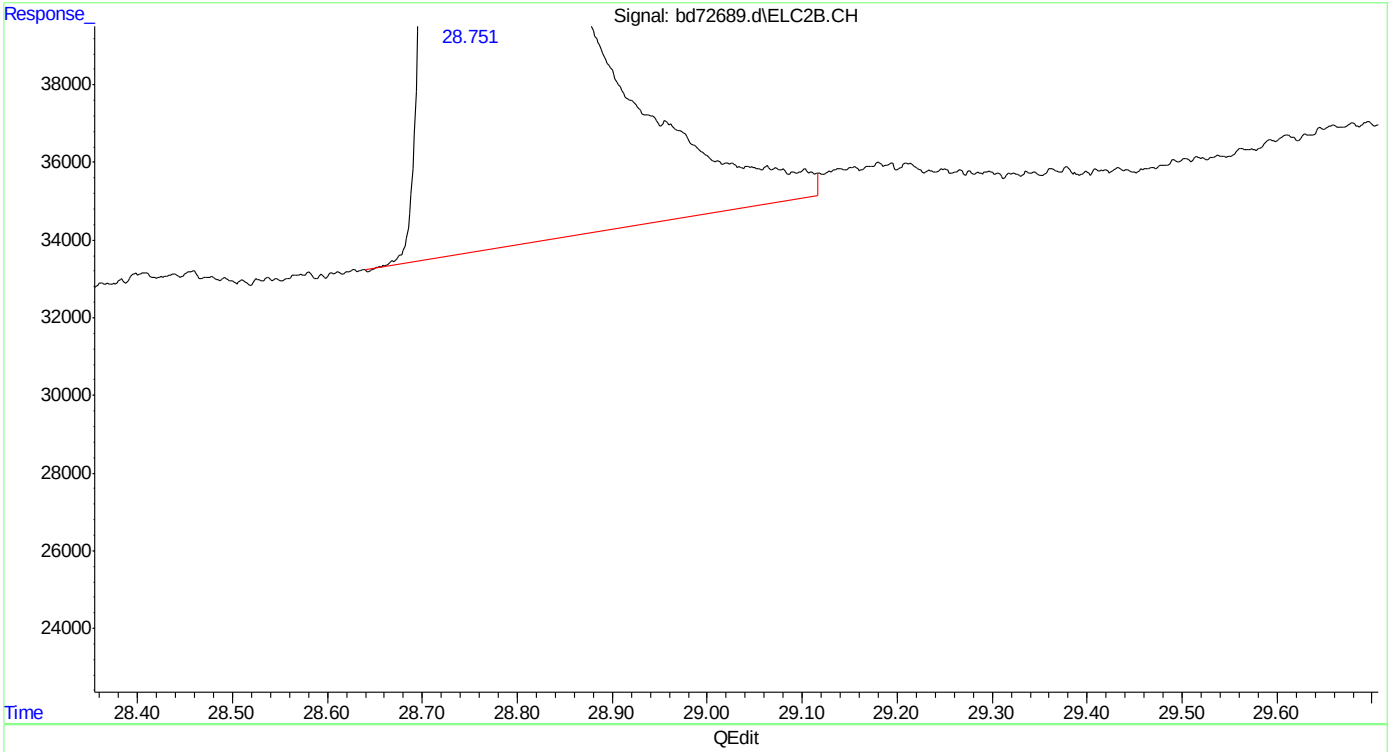
(+) = Expected Retention Time
bd160219vph.M Fri Feb 19 13:52:02 2016

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
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:50:15 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	33168683	48.749 ppb	
Spiked Amount 50.000		Recovery	= 97.50%	
6) s 2,3,4-trifluorotoluene	21.242	26846327	51.528 ppb	
Spiked Amount 50.000		Recovery	= 103.06%	
16) s fluorobenzene #2	16.425	14131122	41.654 ppb	
Spiked Amount 50.000		Recovery	= 83.31%	
18) s 2,3,4-trifluorotoluen...	21.241	8482975	43.092 ppb	
Spiked Amount 50.000		Recovery	= 86.18%	
Target Compounds				
1) h rt5.5-7	7.470	25835475	41.890 ppb	m
2) h rt7/10	9.920	31412461	50.933 ppb	m
3) h rt10/13	15.200	26484464	42.942 ppb	m
8) h rt20/25	22.840	30482194	38.092 ppb	m
10) h decane	24.930	28920143	36.140 ppb	
11) h butylcyclohexane	25.908	33539270	41.912 ppb	
14) mtbe #2	10.679f	7518756	48.789 ppb	m
15) benzene #2	15.931	22809293	47.165 ppb	
17) toluene #2	20.224	21190150	46.806 ppb	
19) ethylbenzene #2	23.177	18849441	45.419 ppb	
20) m,p-xylene #2	23.312	45706011	91.698 ppb	
21) o-xylene #2	24.034	19340836	44.484 ppb	
22) t 1,3,5-trimethylbenzen...	25.276	27493732	40.972 ppb	
23) 1,2,4-trimethylbenzen...	25.754	21591673	43.897 ppb	
24) naphthalene #2	28.759	18401925	51.023 ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21604213	43.942 ppb	m

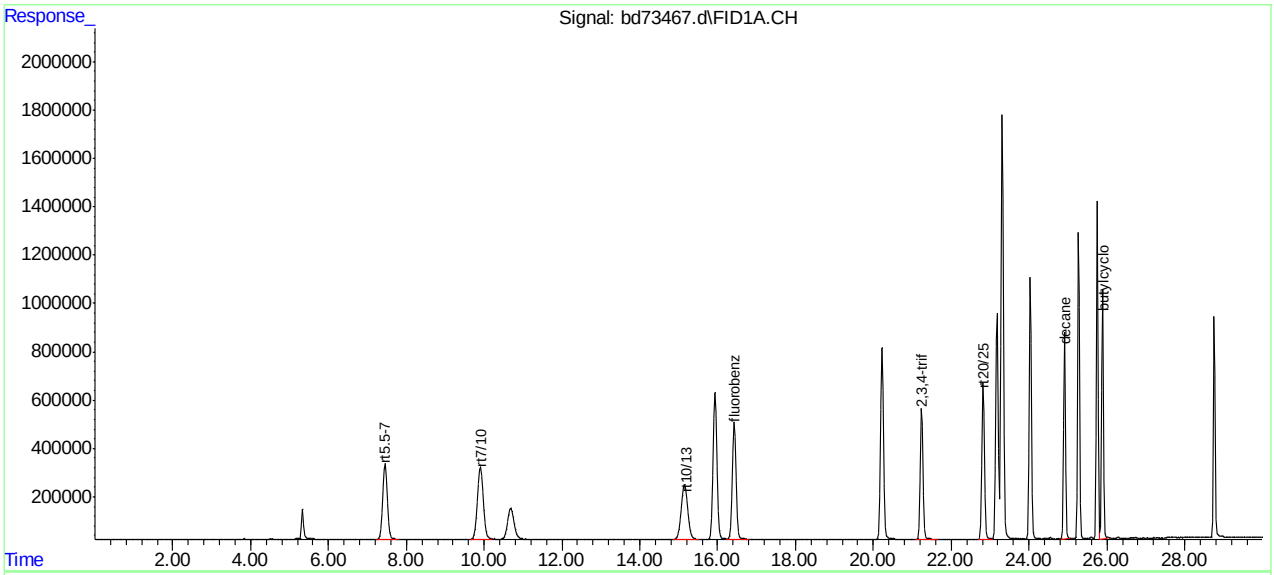
(f)=RT Delta > 1/2 Window (m)=manual int.

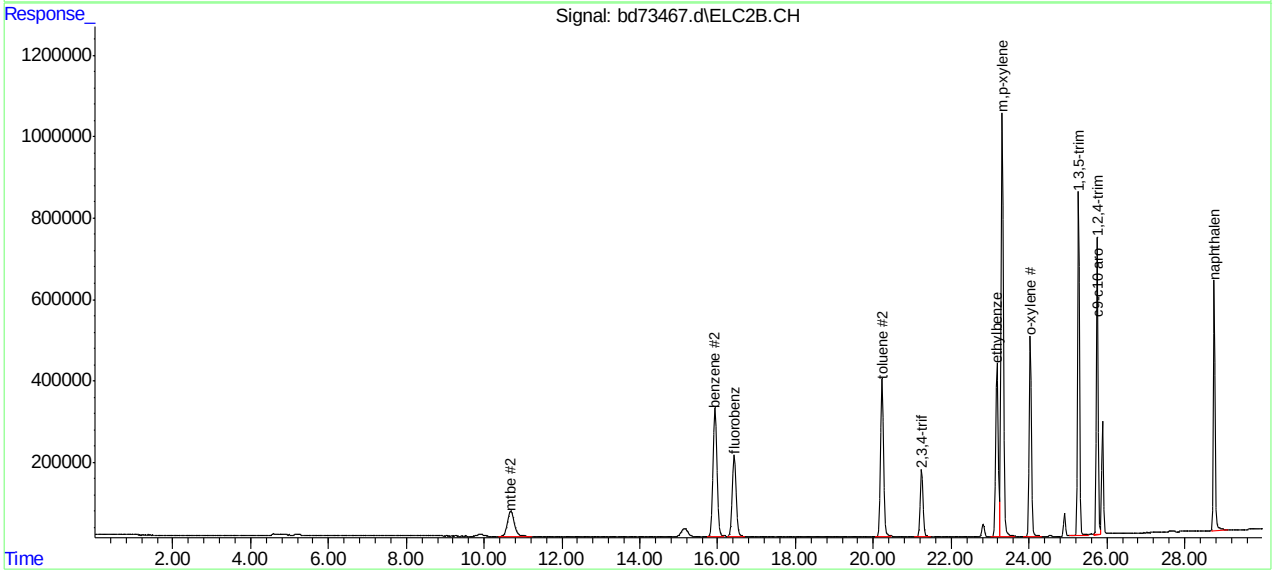
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:50:15 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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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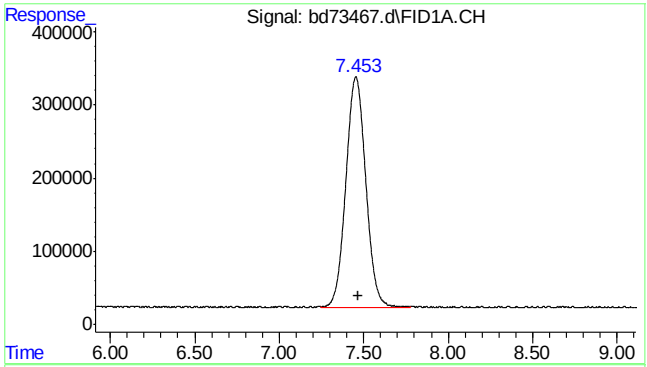
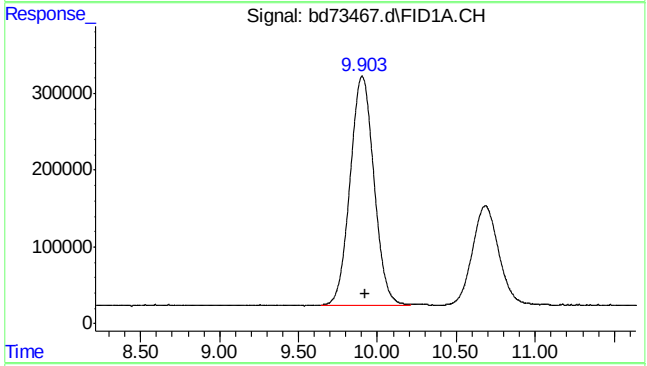


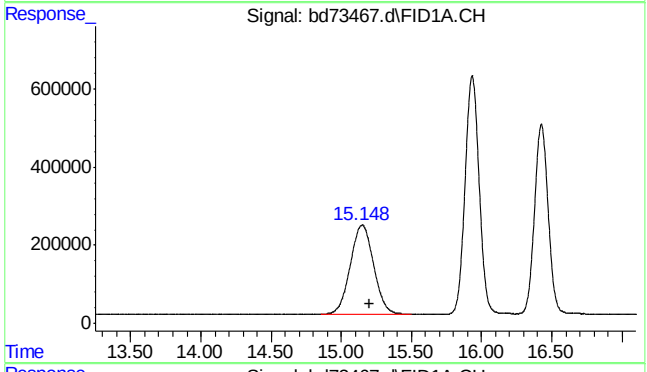
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25835475
Conc: 41.89 ppb m



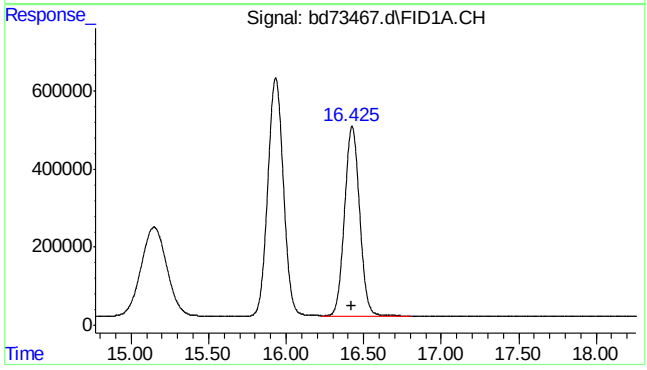
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 31412461
Conc: 50.93 ppb m



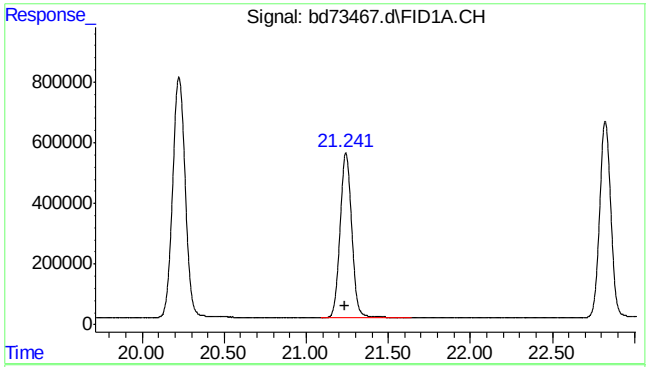
#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 26484464
Conc: 42.94 ppb m



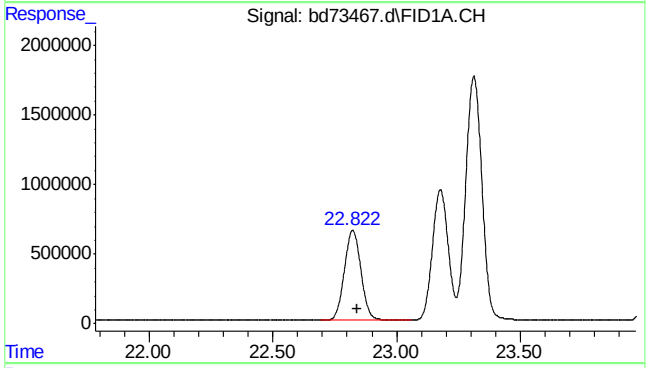
#4 fluorobenzene

R.T.: 16.426 min
Delta R.T.: 0.002 min
Response: 33168683
Conc: 48.75 ppb



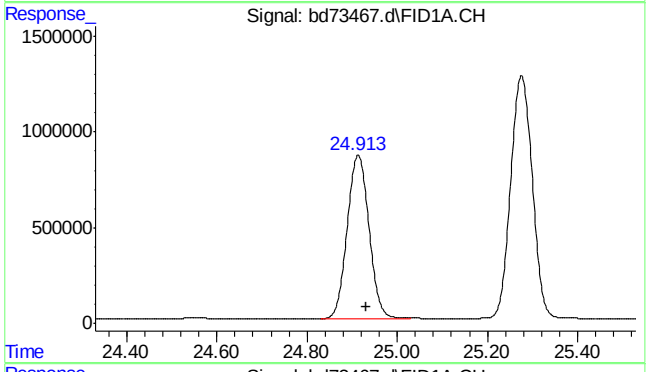
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26846327
Conc: 51.53 ppb



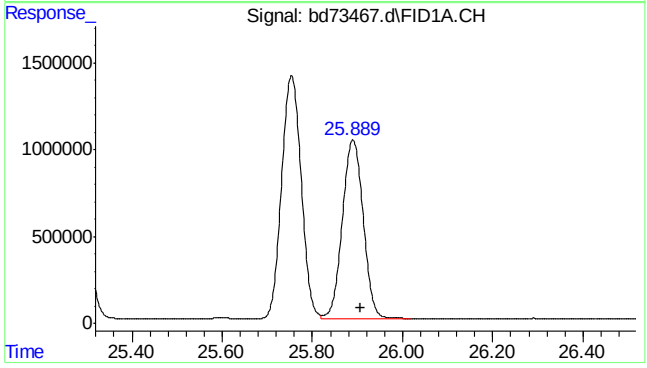
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 30482194
Conc: 38.09 ppb m



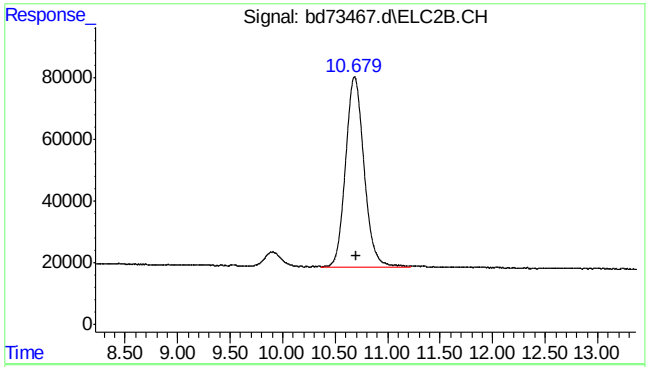
#10 decane

R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 28920143
Conc: 36.14 ppb



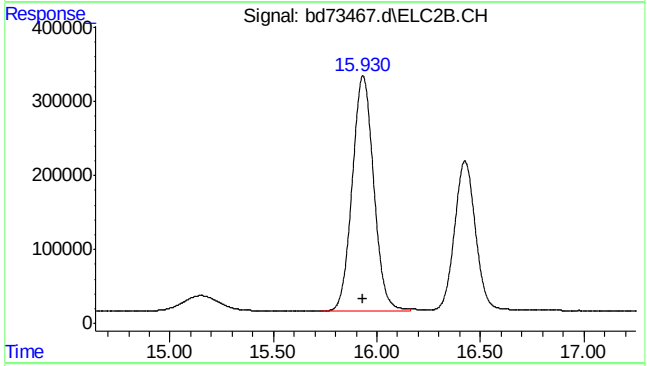
#11 butylcyclohexane

R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 33539270
Conc: 41.91 ppb



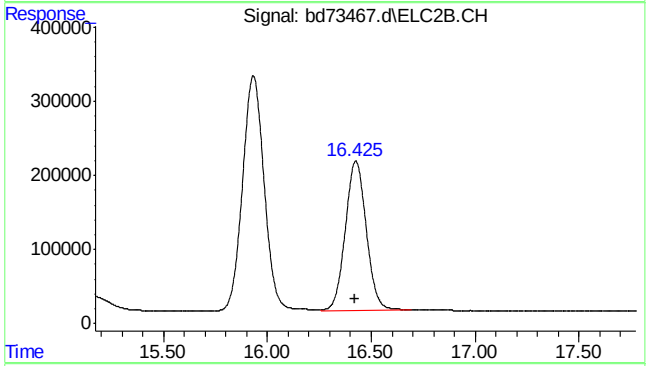
#14 mtbe #2

R.T.: 10.679 min
Delta R.T.: -0.017 min
Response: 7518756
Conc: 48.79 ppb m



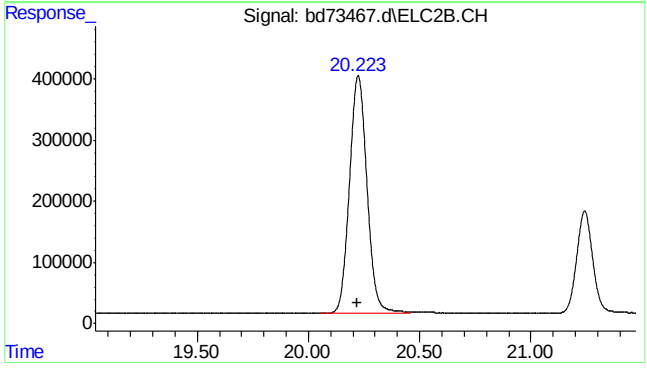
#15 benzene #2

R.T.: 15.931 min
Delta R.T.: 0.000 min
Response: 22809293
Conc: 47.17 ppb



#16 fluorobenzene #2

R.T.: 16.425 min
Delta R.T.: 0.001 min
Response: 14131122
Conc: 41.65 ppb



#17 toluene #2

R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21190150
Conc: 46.81 ppb

7.5.11

7

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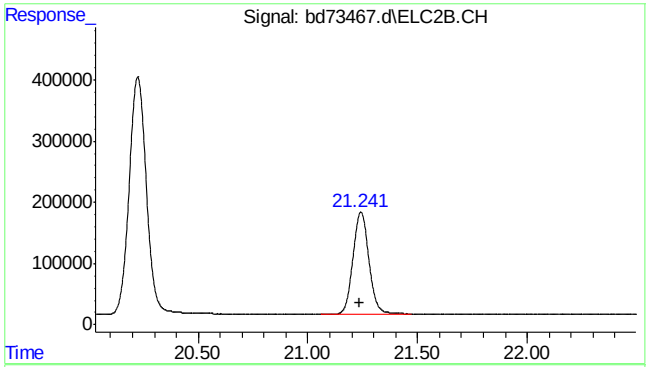
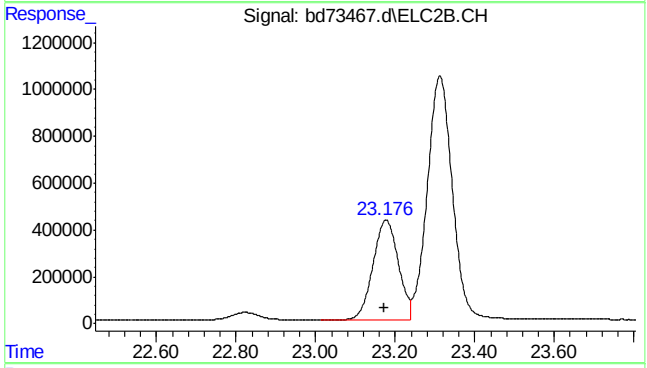


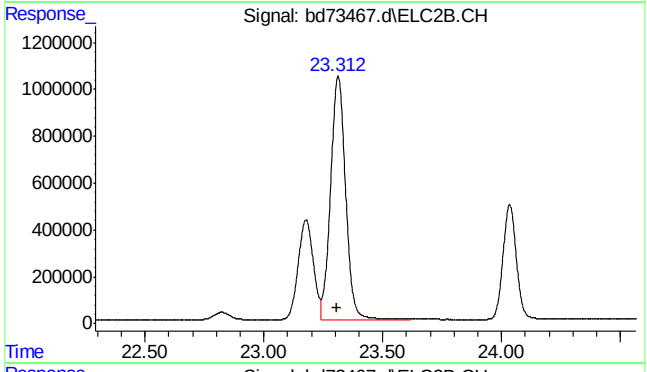
#18 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8482975
Conc: 43.09 ppb



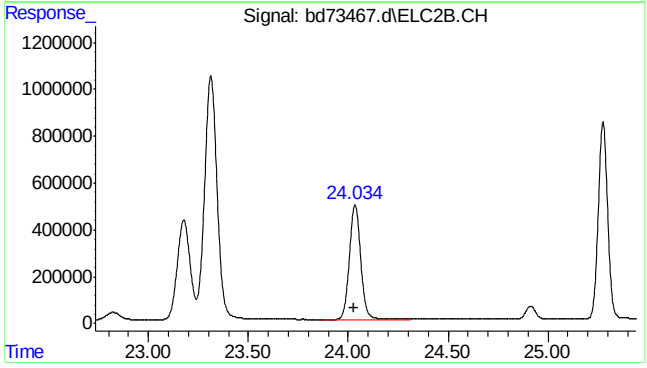
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18849441
Conc: 45.42 ppb



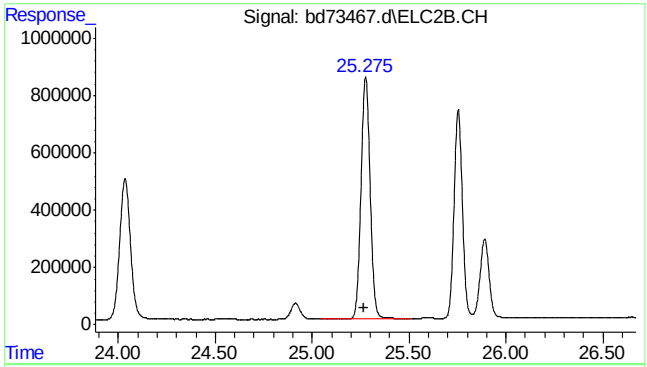
#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 45706011
Conc: 91.70 ppb



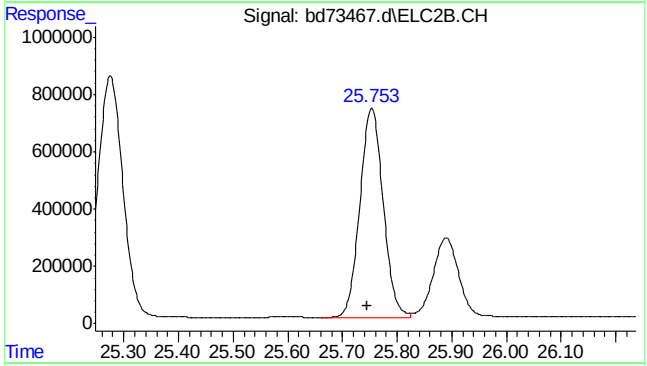
#21 o-xylene #2

R.T.: 24.034 min
Delta R.T.: 0.006 min
Response: 19340836
Conc: 44.48 ppb



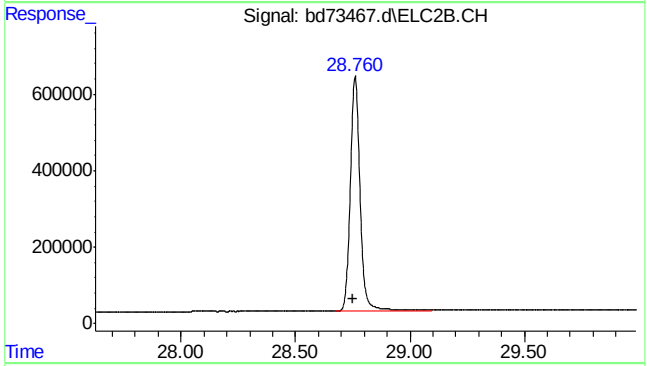
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 27493732
Conc: 40.97 ppb



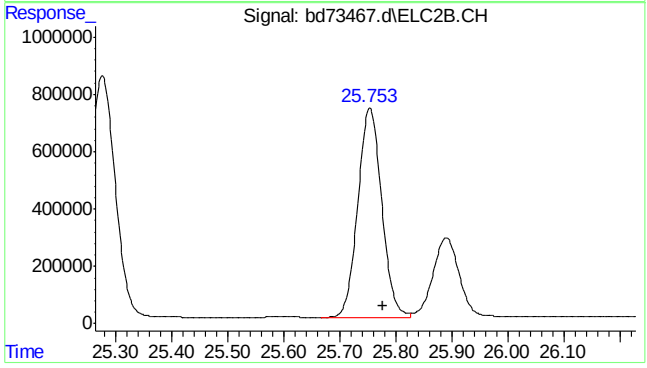
#23 1,2,4-trimethylbenzene #2

R.T.: 25.754 min
Delta R.T.: 0.008 min
Response: 21591673
Conc: 43.90 ppb



#24 naphthalene #2

R.T.: 28.759 min
Delta R.T.: 0.009 min
Response: 18401925
Conc: 51.02 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21604213
Conc: 43.94 ppb m

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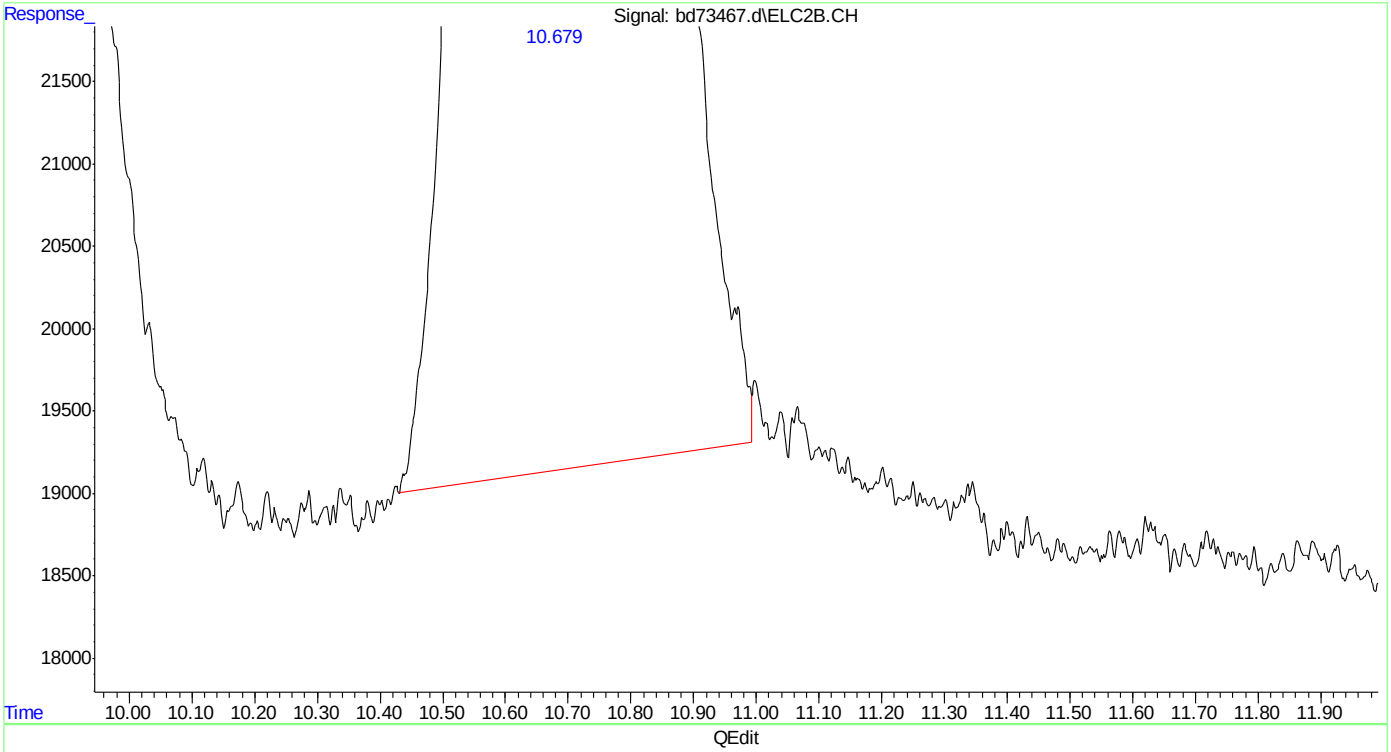
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:49:16 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.680min 47.575 ppb
response 7331723

(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 12:49:49 2016

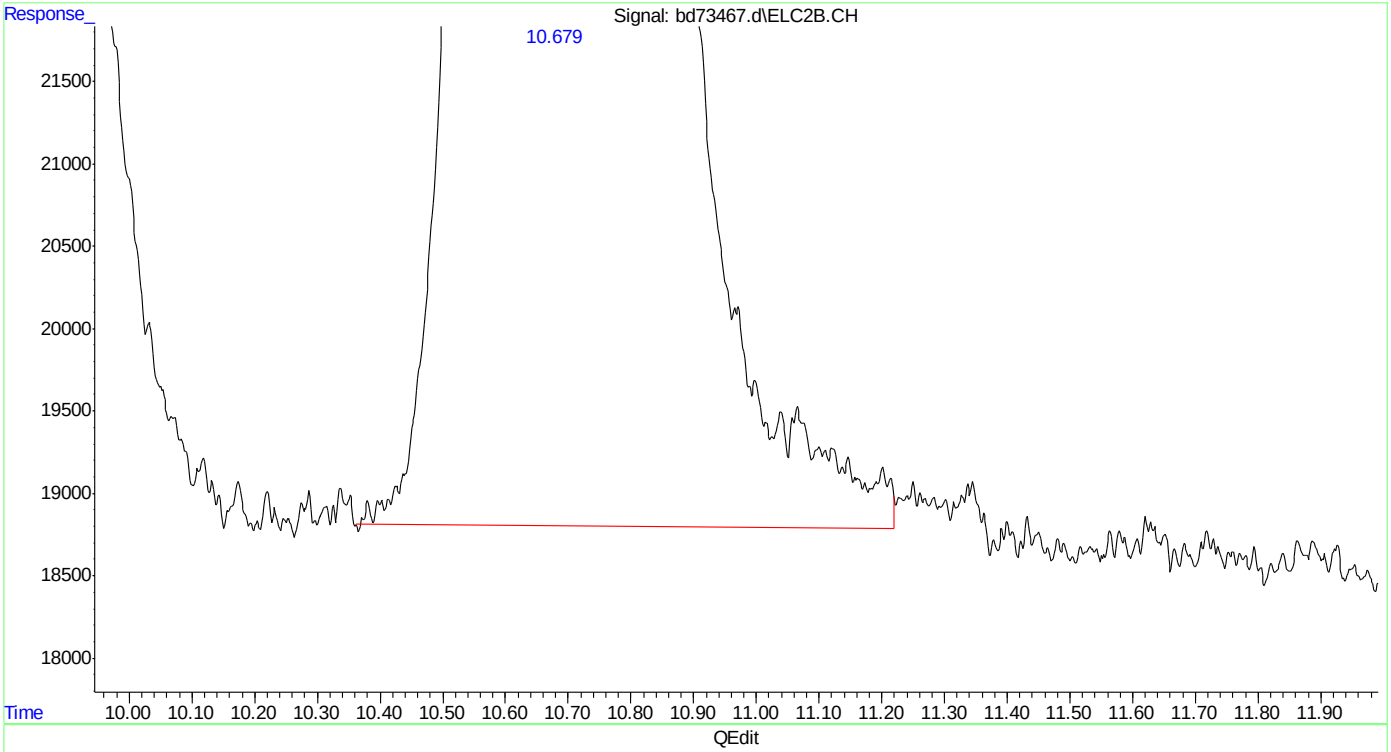
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:49:16 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.679min 48.789 ppb m
response 7518756

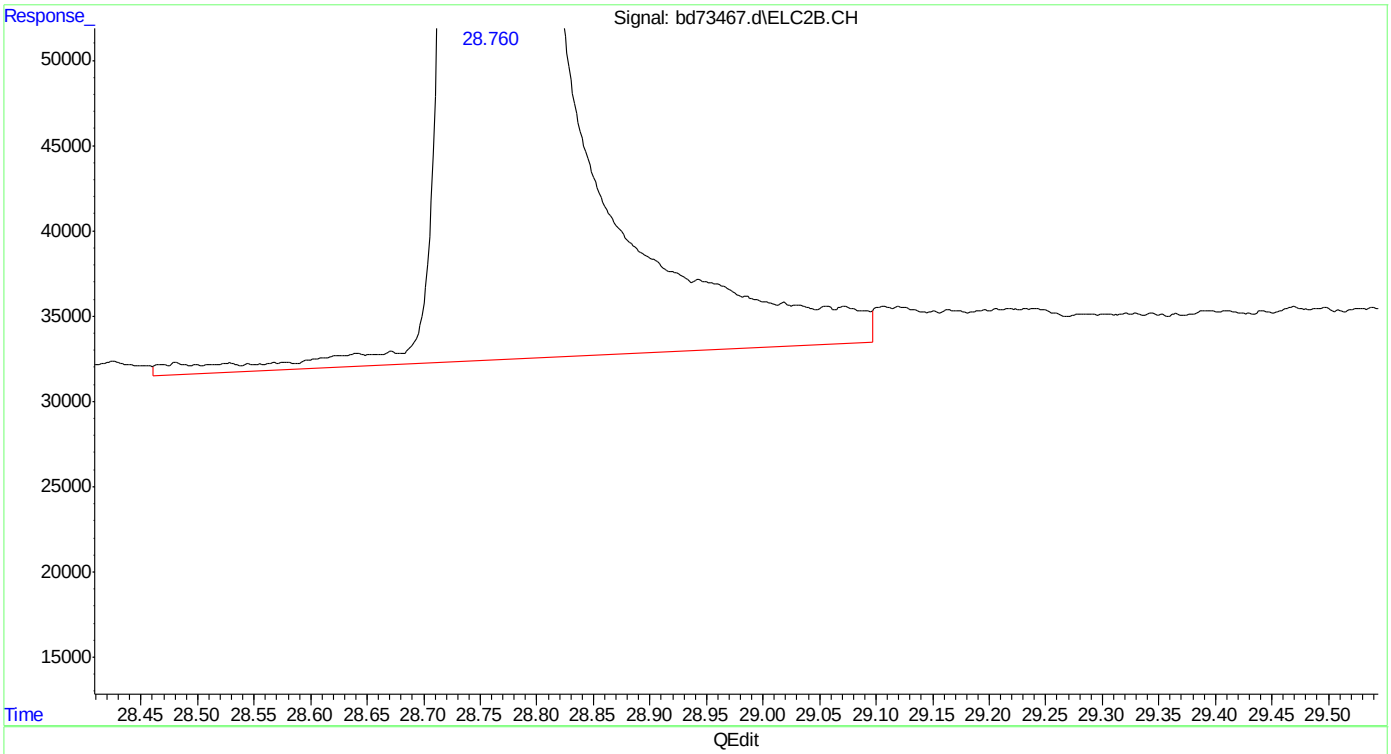
(+) = Expected Retention Time
bd160428vph.M Thu Apr 28 12:49:53 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26190,gbd3627,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:49:16 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 51.728 ppb

response 18659309

(+) = Expected Retention Time

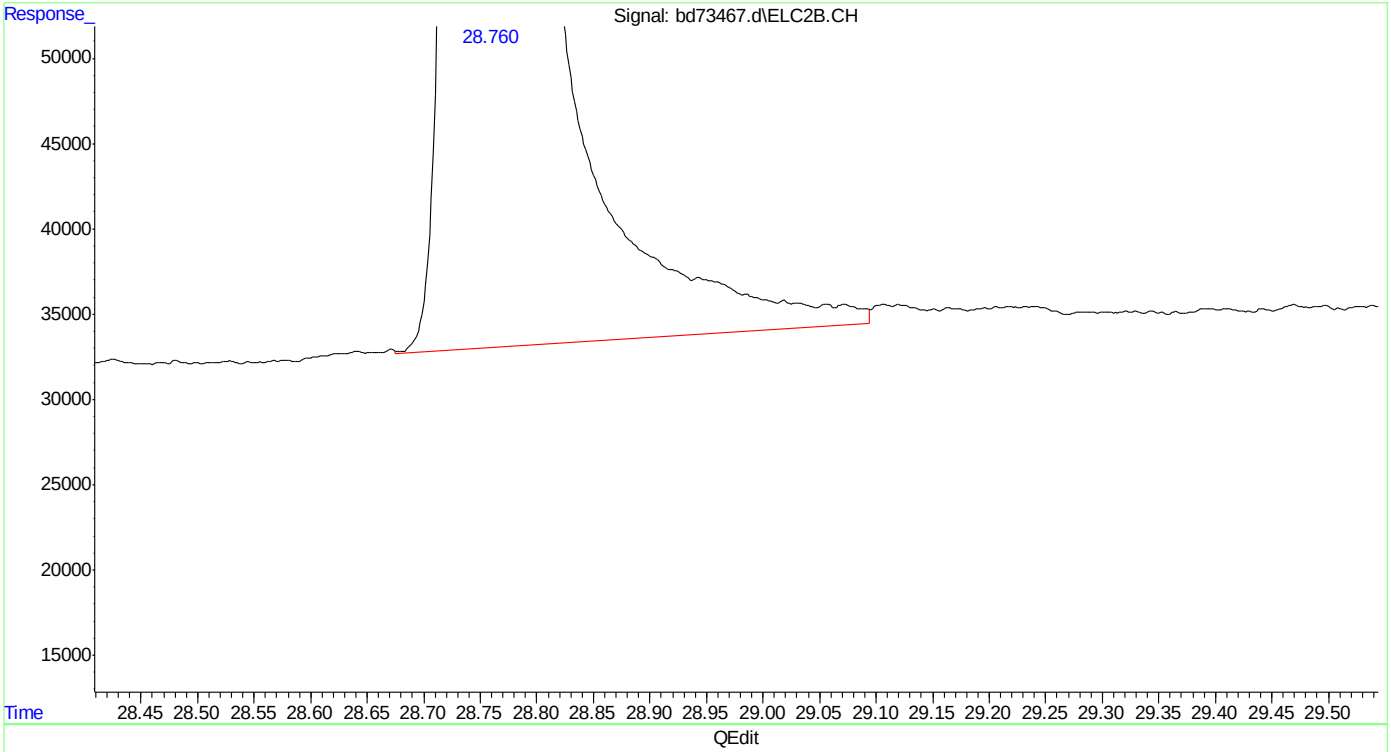
bd160428vph.M Thu Apr 28 12:49:58 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73467.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 28-Apr-16, 12:02:16 (#1); 28-Apr-16, 12:02:17 (#2)
Operator  : tonyf
Sample    : cc3572-50
Misc      : gc26190,gbd3627,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 28 12:49:16 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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

28.759min 51.023 ppb m

response 18401925

(+) = Expected Retention Time

bd160428vph.M Thu Apr 28 12:50:03 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
04/29/16 08:34

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,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: Apr 29 06:43:43 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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	32517166	47.791	ppb	
Spiked Amount 50.000		Recovery = 95.58%			
6) s 2,3,4-trifluorotoluene	21.242	26174056	50.237	ppb	
Spiked Amount 50.000		Recovery = 100.47%			
16) s fluorobenzene #2	16.427	14318085	42.205	ppb	
Spiked Amount 50.000		Recovery = 84.41%			
18) s 2,3,4-trifluorotoluen...	21.241	8511891	43.239	ppb	
Spiked Amount 50.000		Recovery = 86.48%			
Target Compounds					
1) h rt5.5-7	7.470	25979437	42.123	ppb	m
2) h rt7/10	9.920	30716703	49.804	ppb	m
3) h rt10/13	15.200	28184106	45.698	ppb	m
8) h rt20/25	22.840	32421447	40.515	ppb	m
10) h decane	24.930	30828181	38.524	ppb	
11) h butylcyclohexane	25.908	34629583	43.275	ppb	
14) mtbe #2	10.684	7801044	50.621	ppb	m
15) benzene #2	15.934	22818605	47.185	ppb	
17) toluene #2	20.224	21287839	47.022	ppb	
19) ethylbenzene #2	23.177	18960825	45.687	ppb	
20) m,p-xylene #2	23.312	45979280	92.246	ppb	
21) o-xylene #2	24.034	19406042	44.634	ppb	
22) t 1,3,5-trimethylbenzen...	25.276	27360719	40.774	ppb	
23) 1,2,4-trimethylbenzen...	25.753	21515368	43.741	ppb	
24) naphthalene #2	28.758	20146619	55.807	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	25.777	21458589	43.646	ppb	m

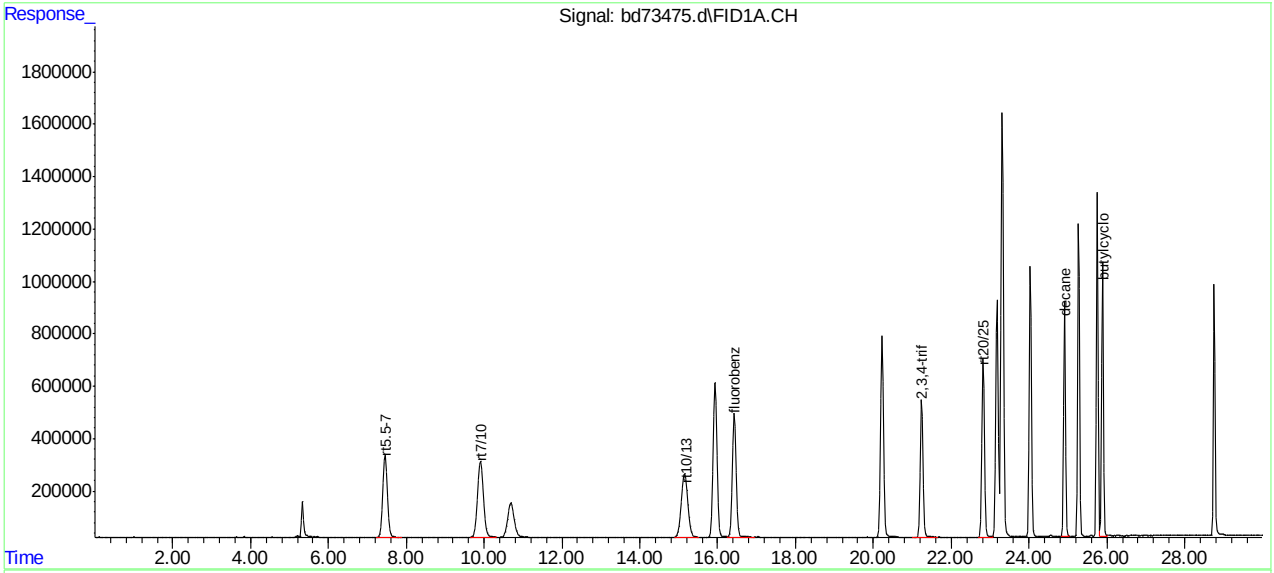
(f)=RT Delta > 1/2 Window (m)=manual int.

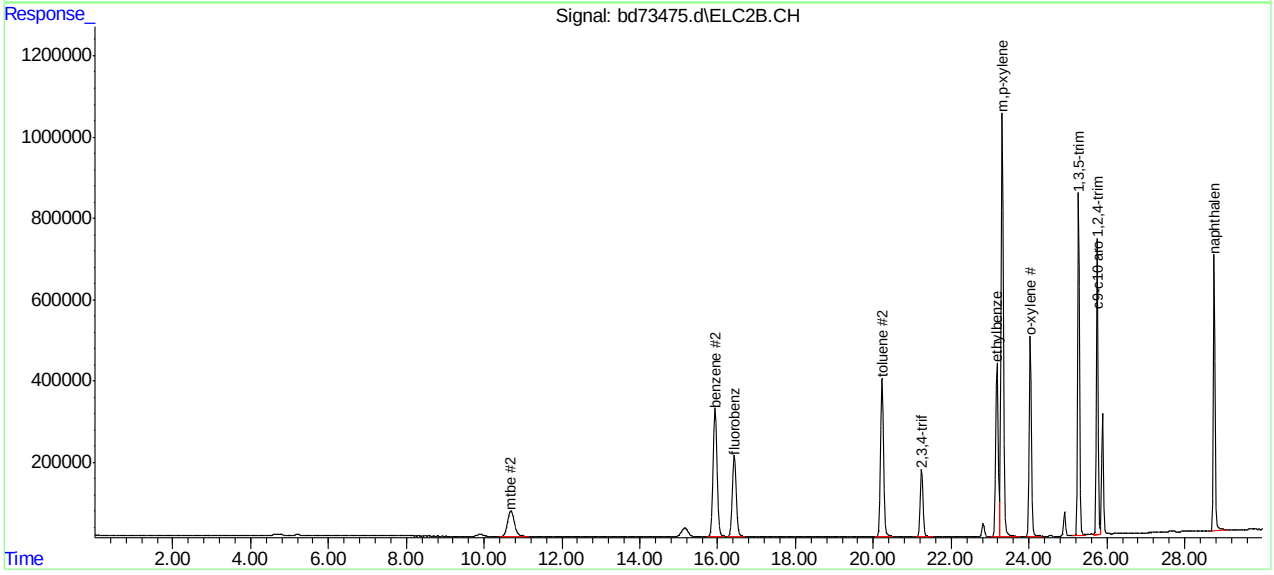
Quantitation Report (QT Reviewed)

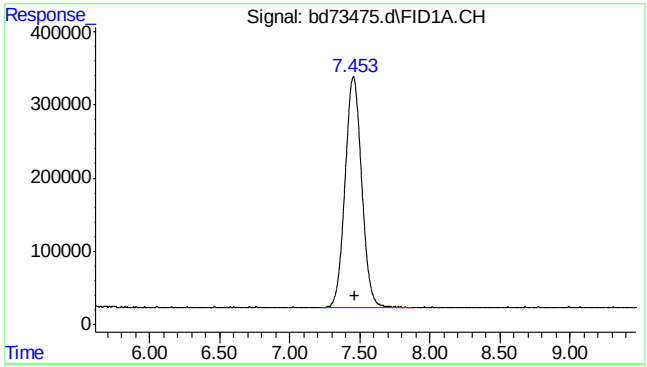
Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,5,1
ALS Vial : 8 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Apr 29 06:43:43 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 :

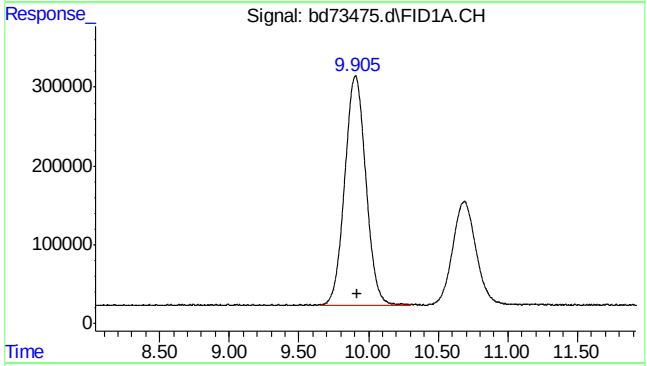






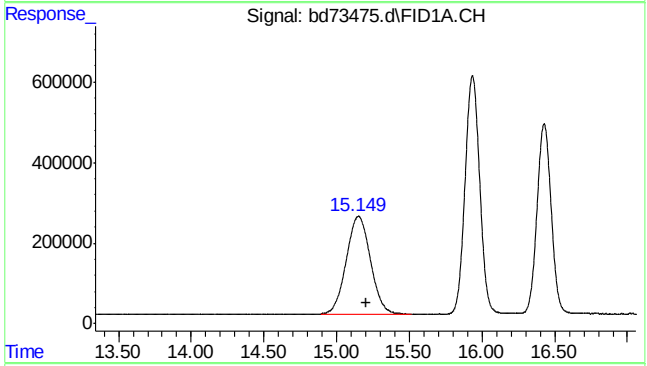
#1 rt5.5-7

R.T.: 7.470 min
Delta R.T.: 0.000 min
Response: 25979437
Conc: 42.12 ppb m



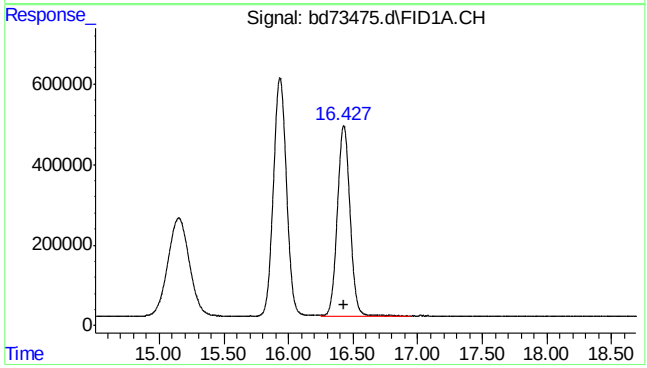
#2 rt7/10

R.T.: 9.920 min
Delta R.T.: 0.000 min
Response: 30716703
Conc: 49.80 ppb m



#3 rt10/13

R.T.: 15.200 min
Delta R.T.: 0.000 min
Response: 28184106
Conc: 45.70 ppb m



#4 fluorobenzene

R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 32517166
Conc: 47.79 ppb

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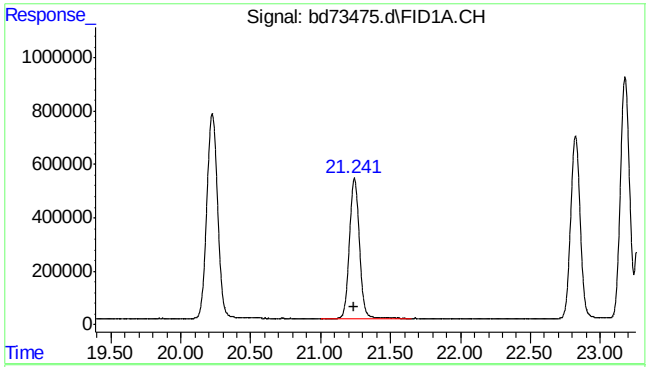
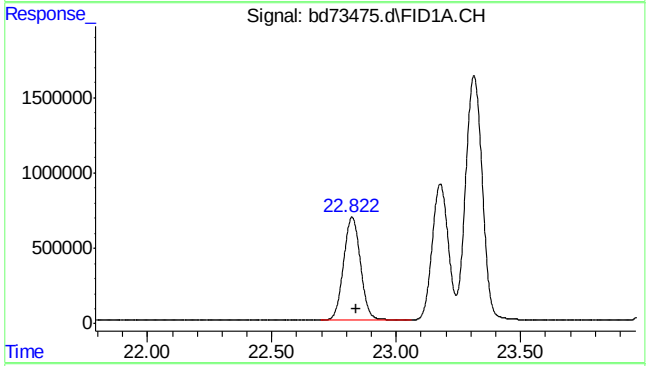


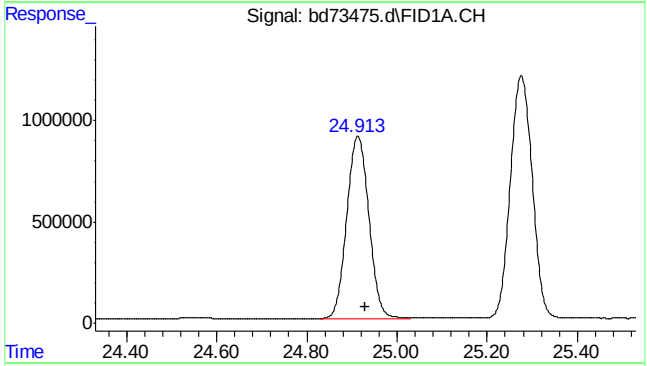
#6 2,3,4-trifluorotoluene

R.T.: 21.242 min
Delta R.T.: 0.005 min
Response: 26174056
Conc: 50.24 ppb



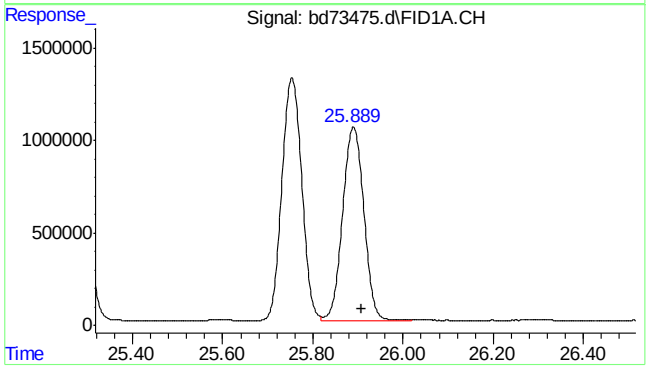
#8 rt20/25

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 32421447
Conc: 40.52 ppb m



#10 decane

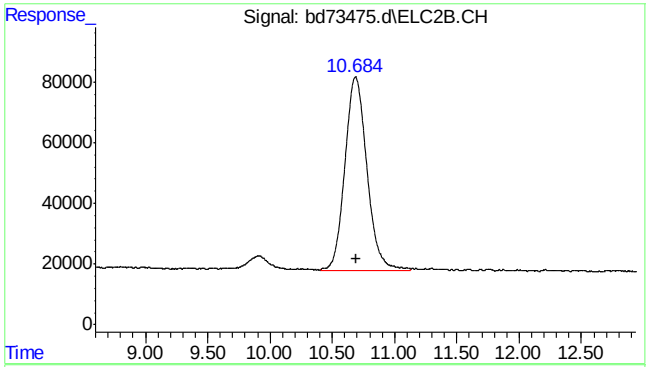
R.T.: 24.930 min
Delta R.T.: 0.000 min
Response: 30828181
Conc: 38.52 ppb



#11 butylcyclohexane

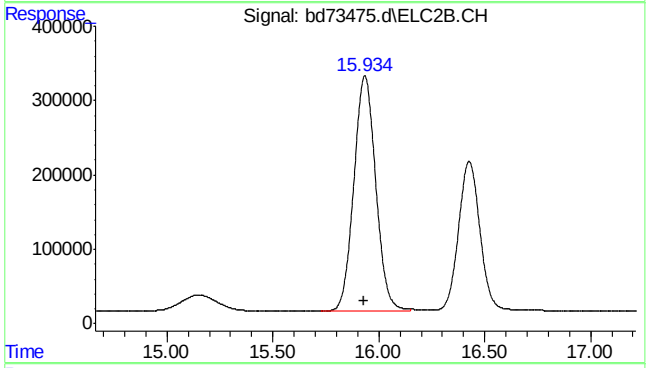
R.T.: 25.908 min
Delta R.T.: 0.000 min
Response: 34629583
Conc: 43.27 ppb

SGS ACCUTEST MC45580



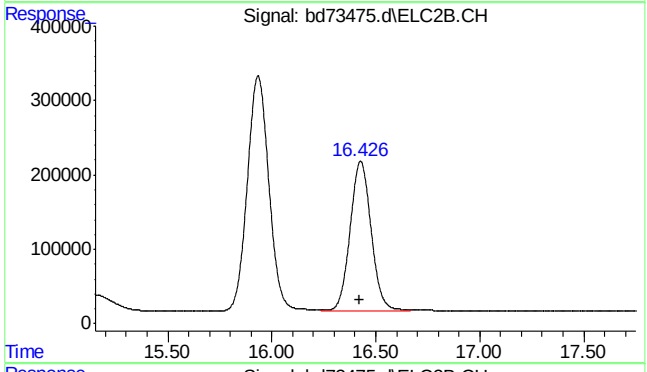
#14 mtbe #2

R.T.: 10.684 min
Delta R.T.: -0.012 min
Response: 7801044
Conc: 50.62 ppb m



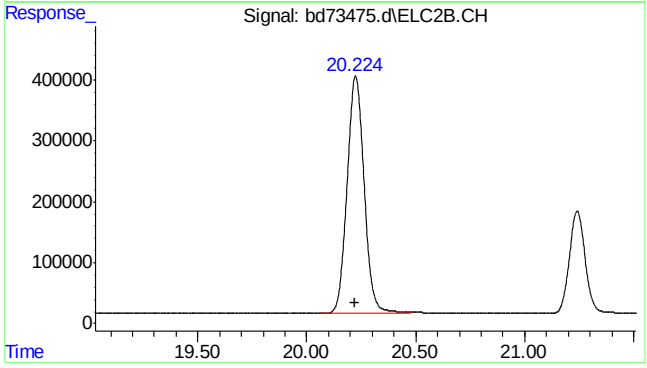
#15 benzene #2

R.T.: 15.934 min
Delta R.T.: 0.002 min
Response: 22818605
Conc: 47.18 ppb



#16 fluorobenzene #2

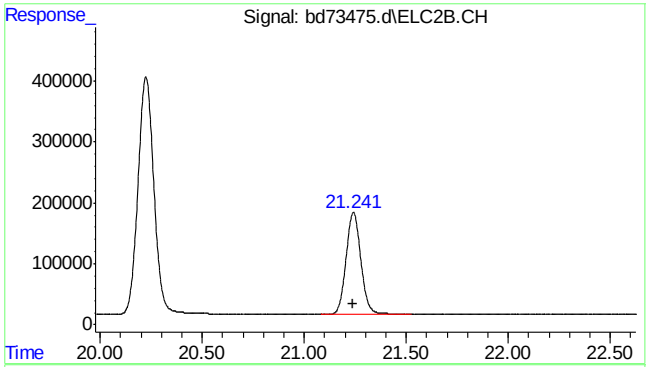
R.T.: 16.427 min
Delta R.T.: 0.003 min
Response: 14318085
Conc: 42.20 ppb



#17 toluene #2

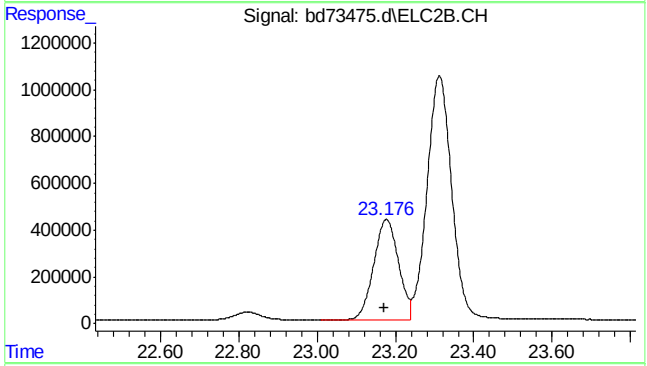
R.T.: 20.224 min
Delta R.T.: 0.003 min
Response: 21287839
Conc: 47.02 ppb

SGS ACCUTEST MC45580



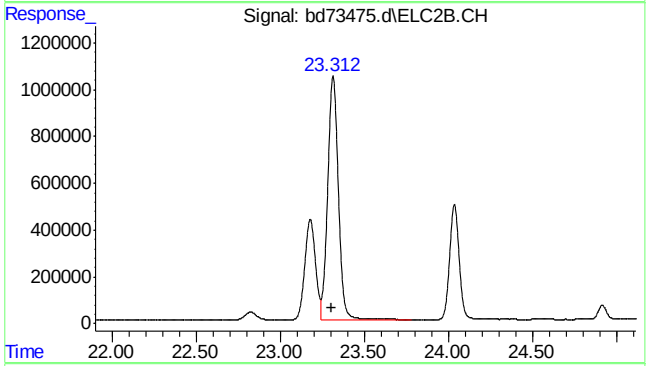
#18 2,3,4-trifluorotoluene #2

R.T.: 21.241 min
Delta R.T.: 0.004 min
Response: 8511891
Conc: 43.24 ppb



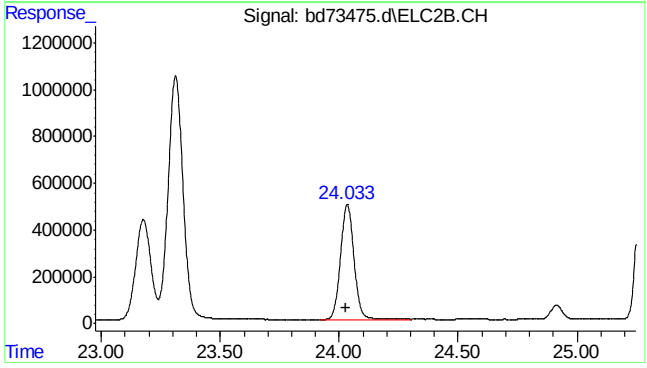
#19 ethylbenzene #2

R.T.: 23.177 min
Delta R.T.: 0.005 min
Response: 18960825
Conc: 45.69 ppb



#20 m,p-xylene #2

R.T.: 23.312 min
Delta R.T.: 0.005 min
Response: 45979280
Conc: 92.25 ppb



#21 o-xylene #2

R.T.: 24.034 min
Delta R.T.: 0.006 min
Response: 19406042
Conc: 44.63 ppb

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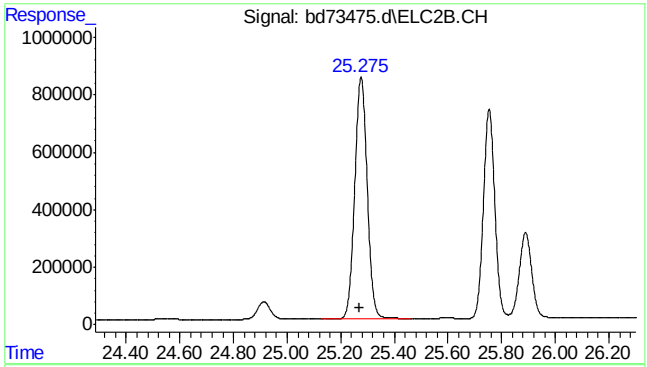
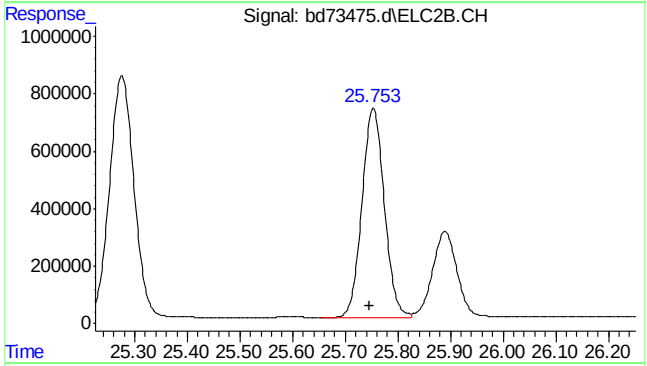


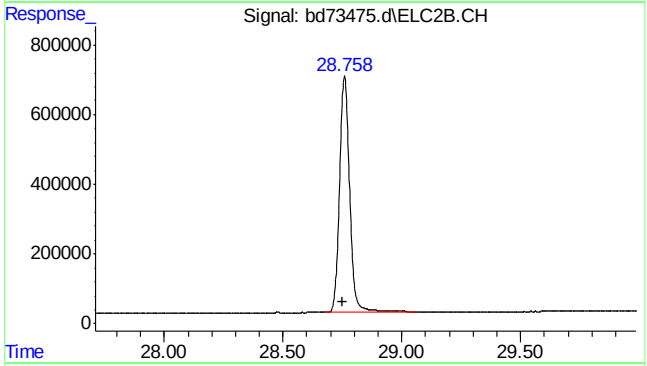
#22 1,3,5-trimethylbenzene #2

R.T.: 25.276 min
Delta R.T.: 0.008 min
Response: 27360719
Conc: 40.77 ppb



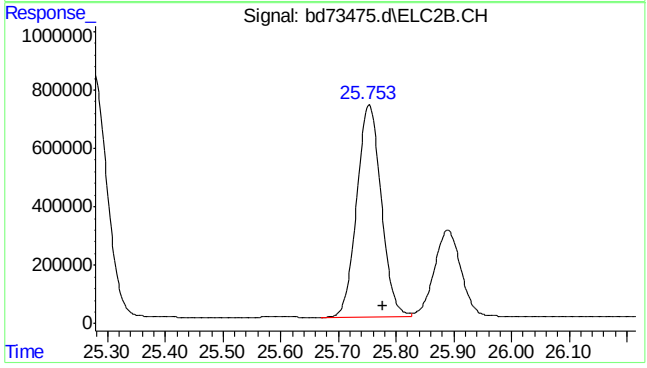
#23 1,2,4-trimethylbenzene #2

R.T.: 25.753 min
Delta R.T.: 0.007 min
Response: 21515368
Conc: 43.74 ppb



#24 naphthalene #2

R.T.: 28.758 min
Delta R.T.: 0.008 min
Response: 20146619
Conc: 55.81 ppb m



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

R.T.: 25.777 min
Delta R.T.: 0.000 min
Response: 21458589
Conc: 43.65 ppb m

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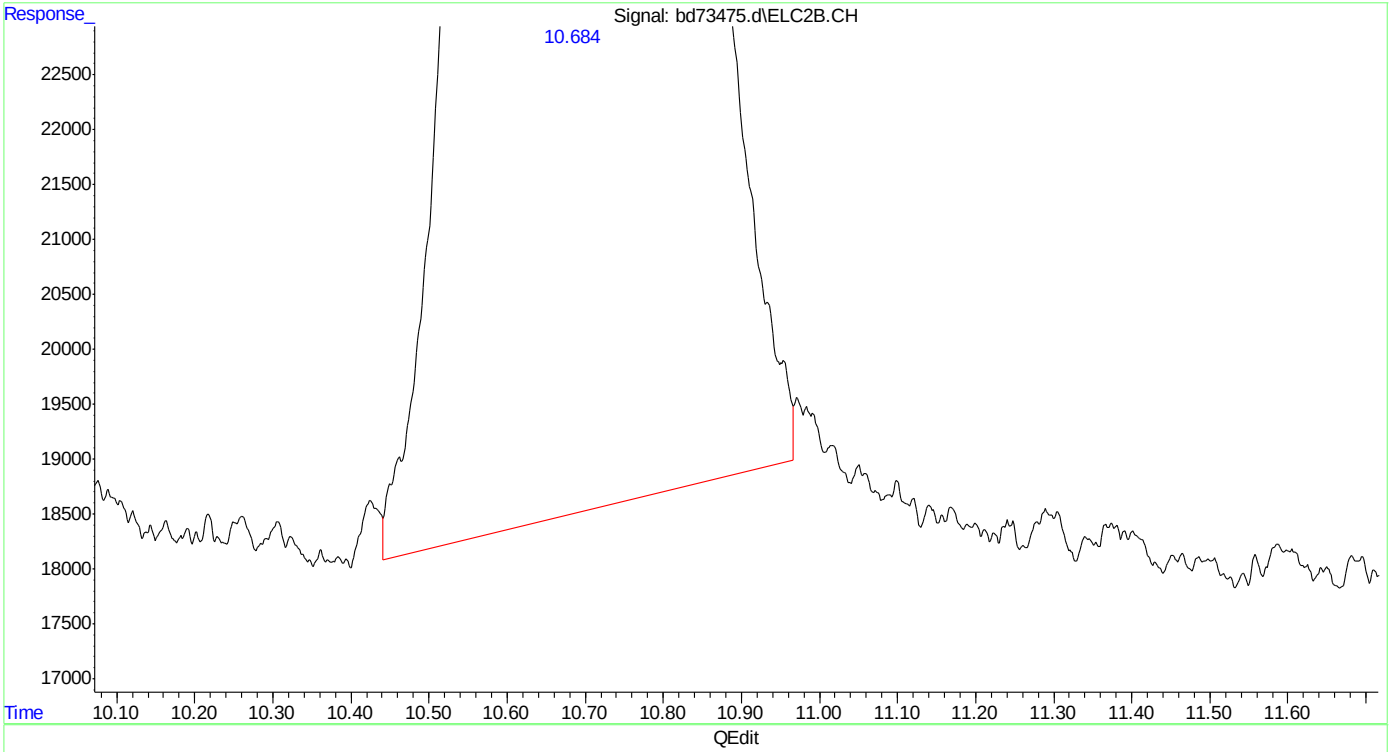
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:17 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
10.685min 48.953 ppb
response 7544000

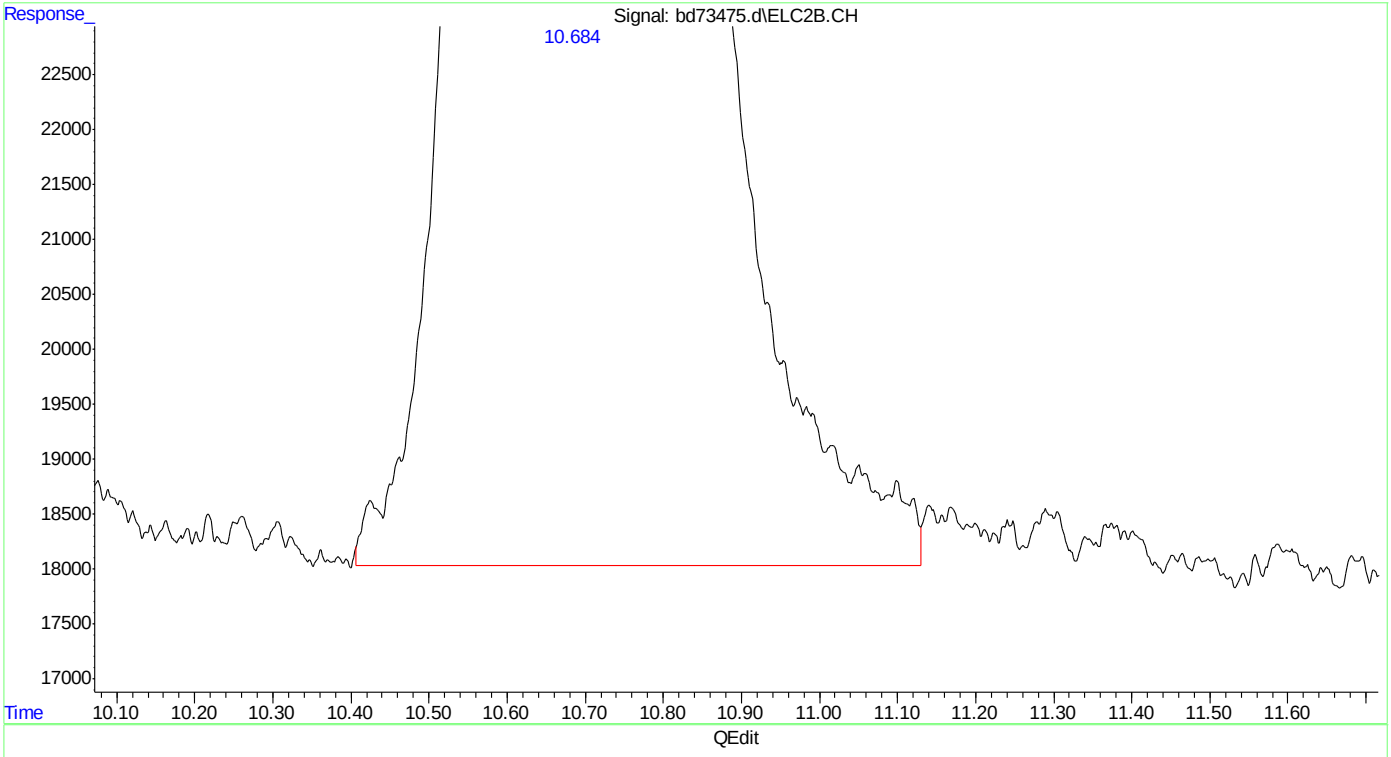
(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:43:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:17 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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 50.621 ppb m
response 7801044

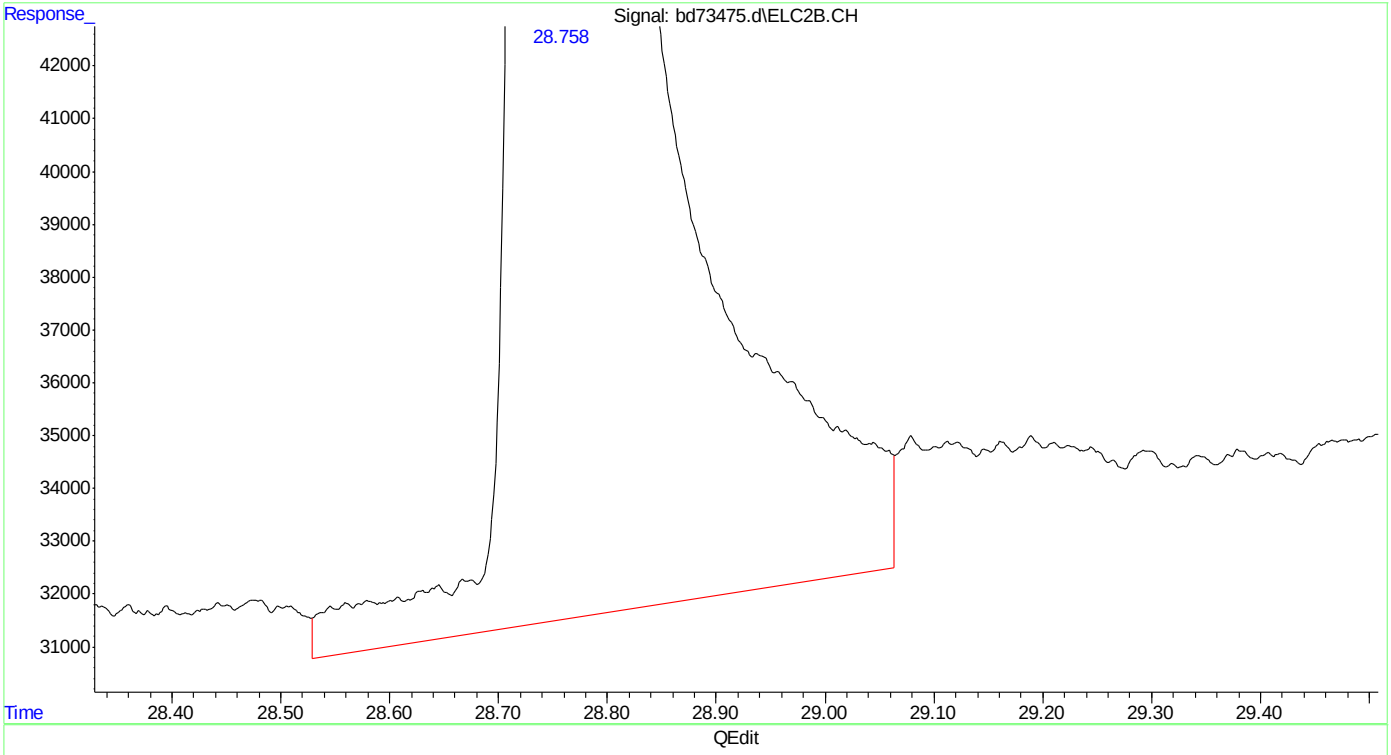
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:17 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
28.759min 56.728 ppb
response 20482399

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:43:34 2016

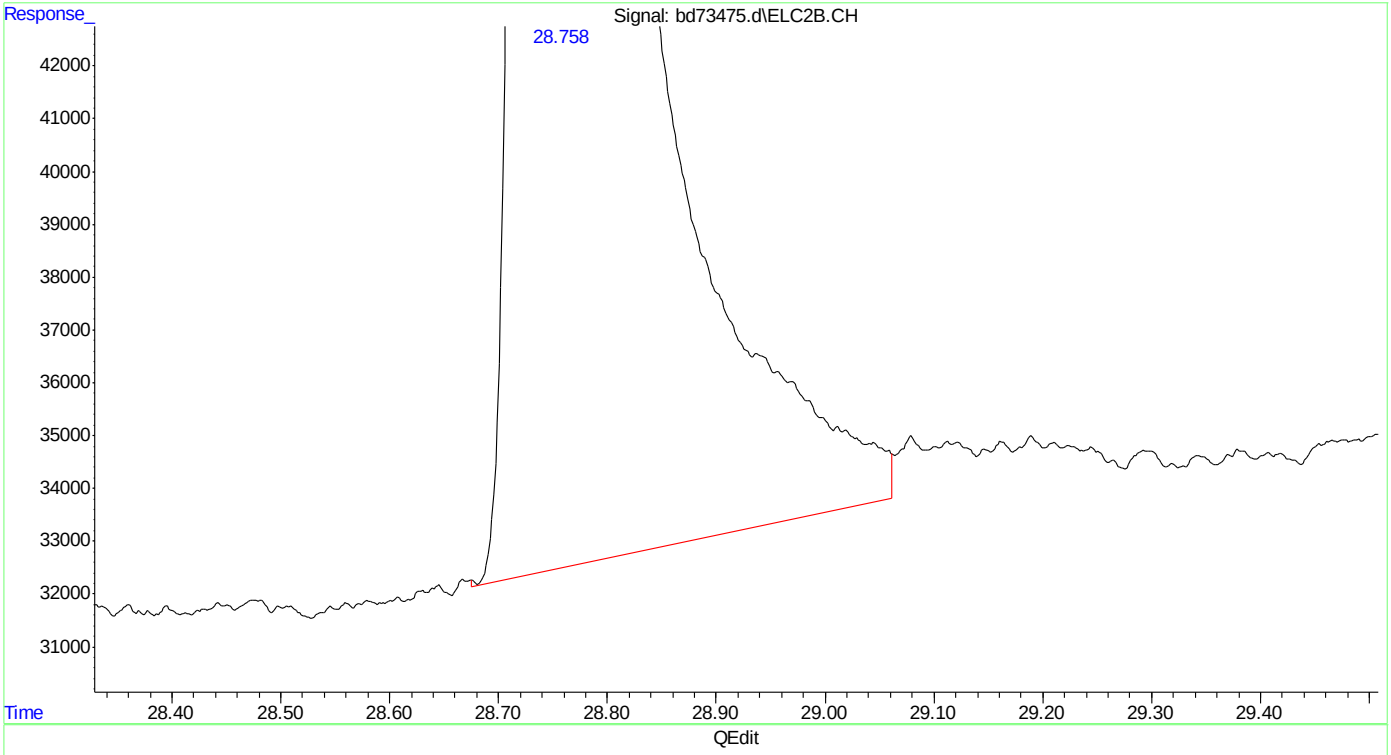
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\BD160428\
Data File : bd73475.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 28-Apr-16, 17:18:23
Operator : tonyf
Sample : cc3572-50
Misc : gc26190,gbd3627,,,,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: Apr 29 06:41:17 2016
Quant Method : C:\msdchem\1\methods\bd160428vph.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
28.758min 55.807 ppb m
response 20146619

(+) = Expected Retention Time
bd160428vph.M Fri Apr 29 06:43:38 2016

SGS ACCUTEST MC45580

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
~~Btxm~~		
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/bsp 250 ug/ml	3/3/16
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
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	icv 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 ml				
82	-250				3		25 ml				
83	-100				4		10 ml				
84	icc 3572-50				5		5 ml				
85	ic 3572-10				6		10 ml qv16	297 / 5 ml FJ			5.0/5.0 std ug/ml
86	-5				7		5 ml				
87	-2				8		10 ml qv	16298			1.0/1.0 ug/ml std
88	-1				9		5 ml				
89	icv 3572-50				10		5 ml 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		mc17863-2J		5						
98	E 0.50 Soil		mc17863-5J	mc11152-5J	6						
99	A 0.50 Aq		mc17863-5J	mc11152-2J	7	W					
73,700	A 1.0 Aq		mc17865-8J	mc11152-5J	8						
01	E 1.0 Soil		mc17863-8J	mc11152-8J	9	S	mc11151-8J				
02	2.0 Aq			mc11152-8J	10	W					
03	5.0 Soil			mc11151-11J	11	S					
04	cc 3572-50				12	W	1 ml qv16289				

2/19/16

* do not Report sample not purged air in lines low
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, 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. ** V8021btxm ~~Aq~~ Soil 2/22/16 qc 25993 gbd 3576 E Fils

Blank V8015 std qc gbd 3577
Blank V8015 std ma qc gbd 3578

7

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

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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 MC45580

```
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 MC45580

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	54982591	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

Instrument Run Log GBD3572 page 8 of 11
SGS ACCUTEST MC45580
402 of 726
7.6.1 7

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 ok
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

SGS ACCUTEST

Instrument: GC 25 (BD)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 4/28/16

Analyst Signature: ae4

Column: mtx 502.2

Standards Data

Test	Workgroup	Batch
Vmaph Me	gc 26190	gbd 3627

Standards Data

Lot #	Description	Expiration
qu16379	cc/bsp 250ug/ml	5/28/16
qu16380	Sun ↓	↓

Method: BD VPH1

GC Seq. File: BD160428.S

Method Files:

BD160425 VPH CC3572-56

Date of ICAL: 2-9-16 ICAL Verified: Seq. Verification: ae4

AS Seq. File: 1-1, 2-2, 3-4, 5-6, 6-8

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	Dil. Fact.	pH	Comments
bd 73,467	Creek 50	N/A	gc 26190	Vmaph	1	W	1ml qu16379	N/A	N/A	
68	mb	↓	↓	↓	2	↓	1ml qu16380	↓	↓	
69	bsp				3		1ml qu16379			
70	bsd				4		↓			
71	me 45580-1	1			5		5ml		2	
72	-2	2			6		↓		↓	
73	-2ms	2			6		↓ +1ml	qu16379		
74	-2msd	3			7		↓ ↓	N/A	↓	
75	Creek 50	N/A			8	↓	1ml qu16379	↓	N/A	

4/28/16

GC001-07 Date: 4/27/16 Dilution Solvent: Lot Number: pH Paper Lot:

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

Data File Name	bd73467.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	25835475	C5 - C8 area	CF	CF		
rt7/10	31412461	83732400	558216	616746	**9.49**	
rt10/13	26484464					
rt20/25	30482194					
decane	28920143	C9-C12 area				
butylcyclohexane	33539270	92941608	619611	800224	**22.57**	

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

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

Data File Name	bd73475.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	25979437	C5 - C8 area	CF	CF		
rt7/10	30716703	84880247	565868	616746	**8.25**	
rt10/13	28184106					
rt20/25	32421447					
decane	30828181	C9-C12 area				
butylcyclohexane	34629583	97879211	652528	800224	**18.46**	

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 4/29/16 q

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

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: MC45580
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
OP47292-MB	DE14005.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45580-1A, MC45580-2A

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	87%	40-140%
321-60-8	2-Fluorobiphenyl	108%	40-140%
3386-33-2	1-Chlorooctadecane	47%	40-140%
580-13-2	2-Bromonaphthalene	110%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC45580
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
OP47292-BS	DE14003.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
OP47292-BSD	DE14004.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45580-1A, MC45580-2A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	776	97	747	93	4	40-140/25
	C9-C18 Aliphatics	300	190	63	168	56	12	40-140/25
	C19-C36 Aliphatics	400	405	101	358	90	12	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	79%	78%	40-140%
321-60-8	2-Fluorobiphenyl	82%	86%	40-140%
3386-33-2	1-Chlorooctadecane	81%	73%	40-140%
580-13-2	2-Bromonaphthalene	70%	74%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47292-BS	2-Methylnaphthalene	27.5	0.13	0.5%	5.0
OP47292-BS	Naphthalene	25.7	0.16	0.6%	5.0
OP47292-BSD	2-Methylnaphthalene	27.5	0.16	0.6%	5.0
OP47292-BSD	Naphthalene	25.6	0.17	0.7%	5.0

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC45580
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
OP47292-MS	DE14009.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
OP47292-MSD	DE14010.D	1	05/02/16	TA	04/29/16	OP47292	GDE783
MC45611-2A	DE14008.D	1	05/02/16	TA	04/29/16	OP47292	GDE783

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

MC45580-1A, MC45580-2A

CAS No.	Compound	MC45611-2A ug/l	Q	Spike ug/l	MS ug/l	MS %	Spike ug/l	MSD ug/l	MSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	ND		909	934	103	909	849	93	10	40-140/25
	C9-C18 Aliphatics	ND		341	218	64	341	215	63	1	40-140/25
	C19-C36 Aliphatics	ND		455	466	103	455	439	97	6	40-140/25

CAS No.	Surrogate Recoveries	MS	MSD	MC45611-2A	Limits
84-15-1	o-Terphenyl	83%	75%	82%	40-140%
321-60-8	2-Fluorobiphenyl	96%	87%	94%	40-140%
3386-33-2	1-Chlorooctadecane	65%	60%	62%	40-140%
580-13-2	2-Bromonaphthalene	83%	77%	96%	40-140%

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC45580
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]
MC45580-1A	DE14006.D	77	86	45	88
MC45580-2A	DE14007.D	66	93	51	95
OP47292-BS	DE14003.D	79	82	81	70
OP47292-BSD	DE14004.D	78	86	73	74
OP47292-MB	DE14005.D	87	108	47	110
OP47292-MS	DE14009.D	83	96	65	83
OP47292-MSD	DE14010.D	75	87	60	77

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: MC45580
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE783-CC735	**Injection Date:**	05/02/16
Lab File ID:	DE14002.D	**Injection Time:**	11:43
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.96	6.68	11.23	7.42

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47292-BS	DE14003.D	05/02/16	12:19	9.96	6.69	11.23	7.42
OP47292-BSD	DE14004.D	05/02/16	12:46	9.96	6.68	11.23	7.42
OP47292-MB	DE14005.D	05/02/16	13:14	9.96	6.68	11.23	7.42
MC45580-1A	DE14006.D	05/02/16	13:42	9.96	6.68	11.23	7.42
MC45580-2A	DE14007.D	05/02/16	14:09	9.96	6.68	11.23	7.42
MC45611-2A	DE14008.D	05/02/16	14:37	9.96	6.69	11.23	7.42
OP47292-MS	DE14009.D	05/02/16	15:05	9.96	6.69	11.23	7.42
OP47292-MSD	DE14010.D	05/02/16	15:33	9.96	6.69	11.23	7.42

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: MC45580
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: MC45580
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: MC45580
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: MC45580 **Sample:** GDE735-ICV735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE13198.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	69.894	E3	5.4	0#	0.00
33		c-19	66.806	68.487	E3	-2.5	0#	0.00
34		c-20	66.806	67.817	E3	-1.5	0#	0.00
35	s	1-chlorooctadecane	56.575	59.379	E3	-5.0	111	0.00
36		c-22	66.806	66.707	E3	0.1	0#	0.00
37		c-24	66.806	65.519	E3	1.9	0#	0.00
38		c-26	66.806	65.031	E3	2.7	0#	0.00
39		c-28	66.806	64.086	E3	4.1	0#	0.00
40	h	c-30	66.806	62.872	E3	5.9	0#	0.00
41	h	c-36	66.806	58.670	E3	12.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	98.205	0.000	E3	100.0#	0#	-5.35#
22	s	bht	0.000	0.000		0.0	0#	-15.69#
23		bht	0.000	0.000		0.0	0#	-15.67#

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160204W.M Fri Feb 05 14:30:12 2016

8.6.2

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Continuing Calibration Summary

Job Number: MC45580 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14002.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016  11:43 am
Operator  : thomasa
Sample    : cc735-50, gde783
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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


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

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(Min)
2		naphthalene	103.140	126.160 E3	-22.3	118	0.00
3		2-methylnaphthalene	102.482	123.147 E3	-20.2	116	0.00
4	s	2-fluorobiphenyl	92.230	111.317 E3	-20.7	117	0.00
5		acenaphthylene	100.602	119.855 E3	-19.1	115	0.00
6	s	2-bromonaphthalene	62.755	73.894 E3	-17.7	114	0.00
7		acenaphthene	103.376	123.437 E3	-19.4	115	0.00
8		fluorene	101.567	119.965 E3	-18.1	114	0.00
9		phenanthrene	101.763	117.663 E3	-15.6	113	0.00
10		anthracene	97.008	112.825 E3	-16.3	113	0.00
11	s	o-terphenyl	102.427	118.155 E3	-15.4	112	0.00
12		fluoranthene	99.941	113.618 E3	-13.7	112	0.00
13		pyrene	101.462	116.481 E3	-14.8	114	0.00
14		benzo(a)anthracene	96.675	108.517 E3	-12.2	111	0.00
15		chrysene	97.341	109.872 E3	-12.9	111	0.00
16		benzo(B)fluoranthene	99.002	108.082 E3	-9.2	109	0.00
17		benzo(k)fluoranthene	94.503	112.295 E3	-18.8	114	0.00
18		benzo(a)pyrene	92.435	105.355 E3	-14.0	111	0.00
19		indeno(1,2,3-cd)pyrene	94.658	111.666 E3	-18.0	115	0.00
20		dibenzo(ah)anthracene	91.399	100.760 E3	-10.2	108	0.00
21		benzo(ghi)perylene	92.123	105.009 E3	-14.0	112	0.00
Signal #2							
25	h	c-9	73.872	77.518 E3	-4.9	0#	0.00
26	h	c-10	73.872	78.662 E3	-6.5	0#	0.00
27		naphthalene #2	79.872	83.933 E3	-5.1	110	0.00
28		c-12	73.872	78.172 E3	-5.8	0#	0.00
29		2-methylnaphthalene #2	80.566	83.860 E3	-4.1	110	0.00
30		c-14	73.872	77.703 E3	-5.2	0#	0.00
31		c-16	73.872	77.047 E3	-4.3	0#	0.00

Continuing Calibration Summary

Job Number: MC45580 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14002.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	77.021	E3	-4.3	0#	0.00
33		c-19	66.806	76.586	E3	-14.6	0#	0.00
34		c-20	66.806	75.228	E3	-12.6	0#	0.00
35	s	1-chlorooctadecane	56.575	60.934	E3	-7.7	114	0.00
36		c-22	66.806	74.910	E3	-12.1	0#	0.00
37		c-24	66.806	70.194	E3	-5.1	0#	0.00
38		c-26	66.806	74.686	E3	-11.8	0#	0.00
39		c-28	66.806	72.169	E3	-8.0	0#	0.00
40	h	c-30	66.806	72.123	E3	-8.0	0#	0.00
41	h	c-36	66.806	60.111	E3	10.0	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

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

EPH160502W.M Tue May 03 08:57:24 2016

8.6.3

8

Continuing Calibration Summary

Job Number: MC45580 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14011.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016   4:00 pm
Operator  : thomasa
Sample    : cc735-50, gde783
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	128.520 E3	-24.6	120	0.00
3		2-methylnaphthalene	102.482	125.521 E3	-22.5	119	0.00
4	s	2-fluorobiphenyl	92.230	113.361 E3	-22.9	119	0.00
5		acenaphthylene	100.602	122.189 E3	-21.5	118	0.00
6	s	2-bromonaphthalene	62.755	75.521 E3	-20.3	116	0.00
7		acenaphthene	103.376	127.055 E3	-22.9	119	0.00
8		fluorene	101.567	122.527 E3	-20.6	117	0.00
9		phenanthrene	101.763	119.842 E3	-17.8	115	0.00
10		anthracene	97.008	115.126 E3	-18.7	116	0.00
11	s	o-terphenyl	102.427	120.468 E3	-17.6	115	0.00
12		fluoranthene	99.941	115.769 E3	-15.8	114	0.00
13		pyrene	101.462	118.389 E3	-16.7	116	0.00
14		benzo(a)anthracene	96.675	110.569 E3	-14.4	113	0.00
15		chrysene	97.341	111.343 E3	-14.4	112	0.00
16		benzo(B)fluoranthene	99.002	112.735 E3	-13.9	113	0.00
17		benzo(k)fluoranthene	94.503	110.262 E3	-16.7	112	0.00
18		benzo(a)pyrene	92.435	106.388 E3	-15.1	113	0.00
19		indeno(1,2,3-cd)pyrene	94.658	107.606 E3	-13.7	111	0.00
20		dibenzo(ah)anthracene	91.399	105.809 E3	-15.8	113	0.00
21		benzo(ghi)perylene	92.123	105.208 E3	-14.2	112	0.00
Signal #2							
25	h	c-9	73.872	82.426 E3	-11.6	0#	0.00
26	h	c-10	73.872	83.472 E3	-13.0	0#	0.00
27		naphthalene #2	79.872	88.874 E3	-11.3	117	0.00
28		c-12	73.872	82.611 E3	-11.8	0#	0.00
29		2-methylnaphthalene #2	80.566	88.428 E3	-9.8	116	0.00
30		c-14	73.872	81.333 E3	-10.1	0#	0.00
31		c-16	73.872	79.667 E3	-7.8	0#	0.00

Continuing Calibration Summary

Job Number: MC45580 **Sample:** GDE783-CC735
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14011.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	73.872	78.809	E3	-6.7	0#	0.00
33		c-19	66.806	78.158	E3	-17.0	0#	0.00
34		c-20	66.806	76.418	E3	-14.4	0#	0.00
35	s	1-chlorooctadecane	56.575	61.759	E3	-9.2	115	0.00
36		c-22	66.806	75.694	E3	-13.3	0#	0.00
37		c-24	66.806	70.367	E3	-5.3	0#	0.00
38		c-26	66.806	74.450	E3	-11.4	0#	0.00
39		c-28	66.806	71.664	E3	-7.3	0#	0.00
40	h	c-30	66.806	71.119	E3	-6.5	0#	0.00
41	h	c-36	66.806	58.747	E3	12.1	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Signal #2

42	s	bht	0.000	0.000		0.0	0#	-23.00#
43	s	bht	0.000	0.000		0.0	0#	-23.00#
44	s	bht	0.000	0.000		0.0	0#	-23.00#
45	s	bht	0.000	0.000		0.0	0#	-23.00#

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

EPH160502W.M Tue May 03 08:57:17 2016

8.6.4

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14006.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:42 pm
Operator : thomasa
Sample : mc45580-1a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:47:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.685	1589789	17.237 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 86.18%#	
6) s 2-bromonaphthalene	7.420	1110555	17.697 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 88.48%#	
11) s o-terphenyl	9.955	1583500	15.460 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.30%#	
35) s 1-chlorooctadecane	11.225	510594	9.025 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 45.13%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3536721	36.014 µg/mlm
25) h c-9	2.648	787072	10.655 µg/mlm
41) h c-36	17.008	1063644	15.921 µg/mlm

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

9.1.1

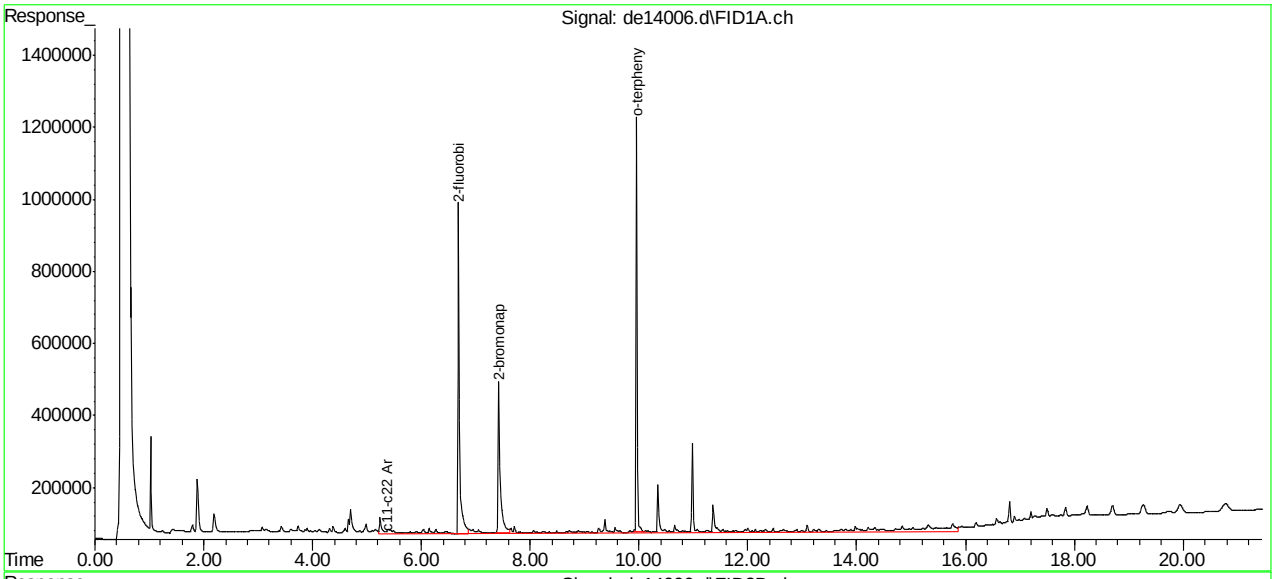
9

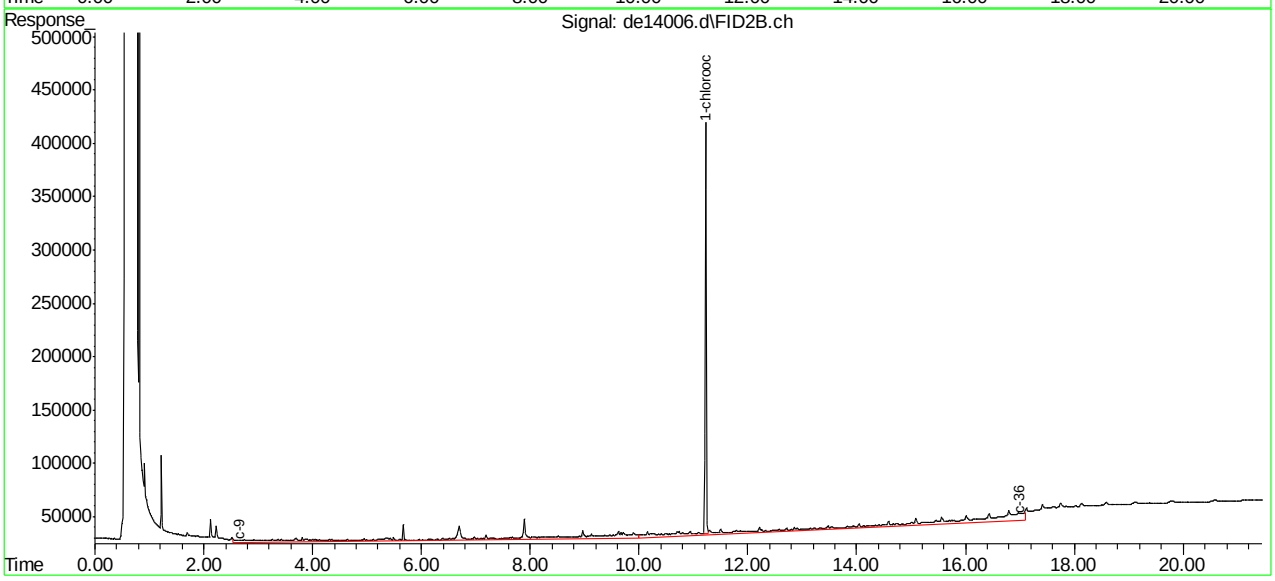
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14006.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:42 pm
Operator : thomasa
Sample : mc45580-1a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

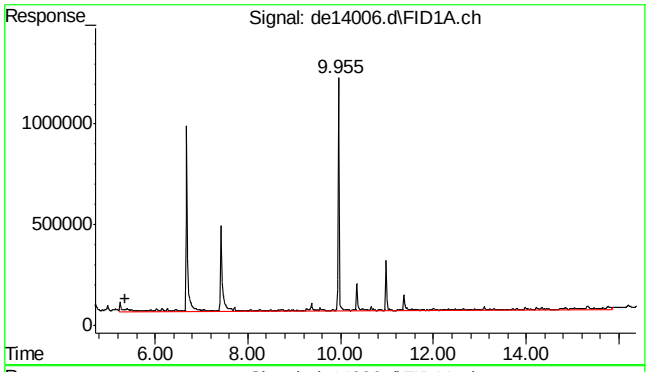
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:47:10 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



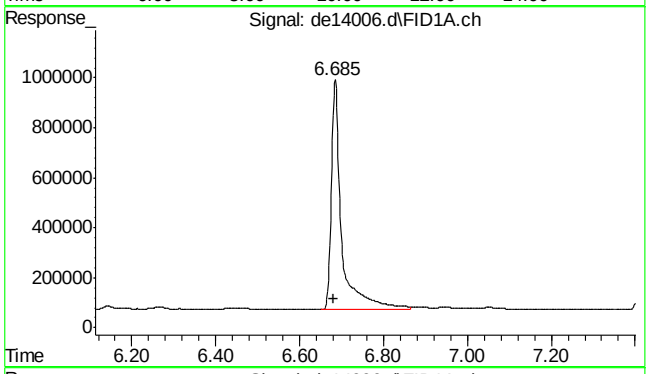


EPH160502W.M Tue May 03 08:57:47 2016 Page: 2



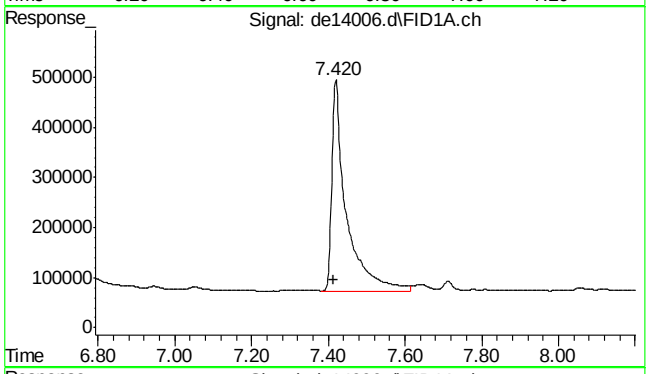
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3536721
Conc: 36.01 µg/ml m



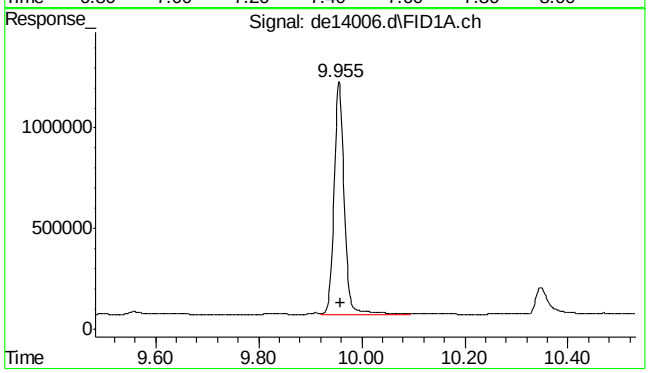
#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: 0.003 min
Response: 1589789
Conc: 17.24 µg/ml



#6 2-bromonaphthalene

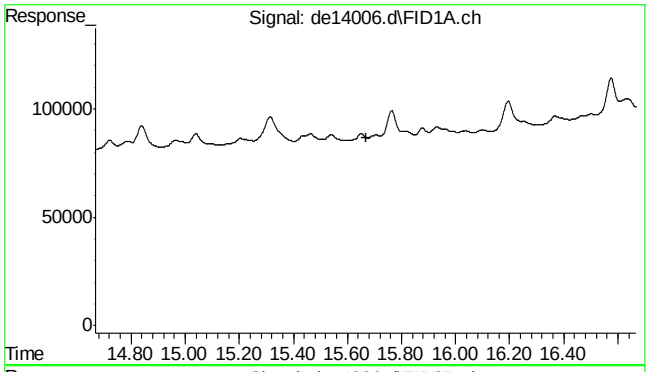
R.T.: 7.420 min
Delta R.T.: 0.005 min
Response: 1110555
Conc: 17.70 µg/ml



#11 o-terphenyl

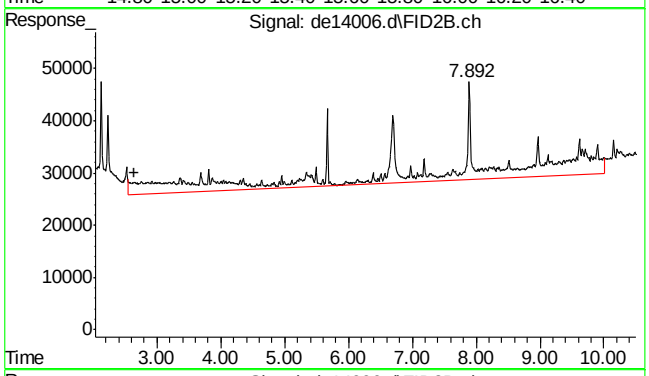
R.T.: 9.955 min
Delta R.T.: -0.003 min
Response: 1583500
Conc: 15.46 µg/ml

SGS ACCUTEST MC45580



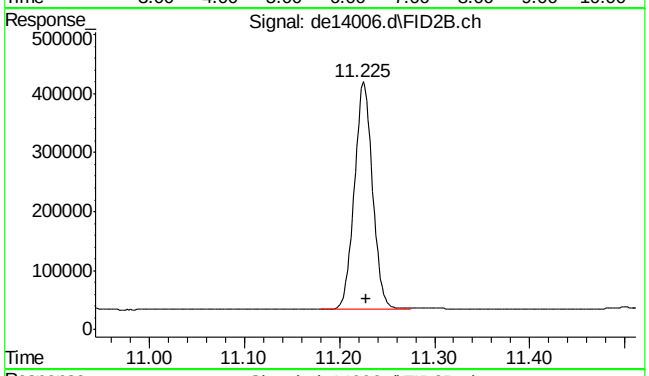
#22 bht

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



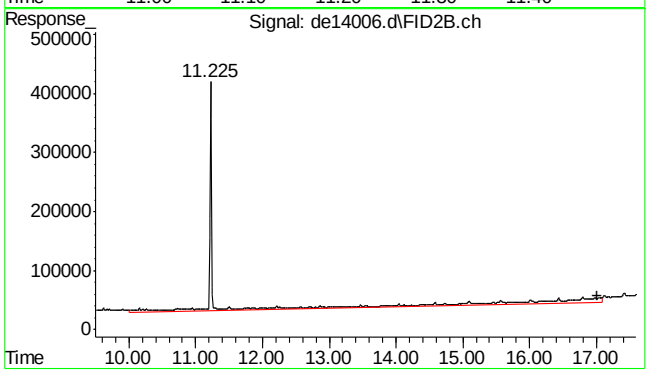
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 787072
Conc: 10.65 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 510594
Conc: 9.03 µg/ml



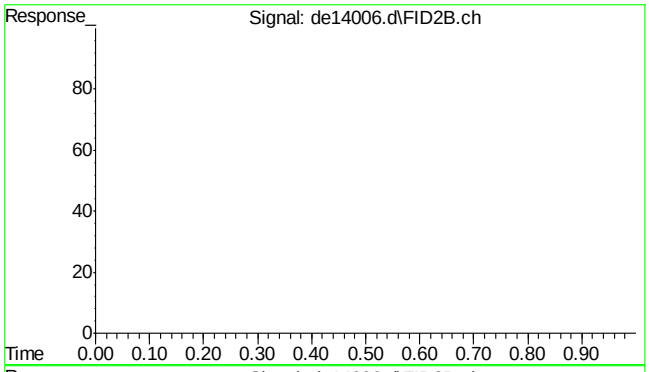
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1063644
Conc: 15.92 µg/ml m

9.1.1

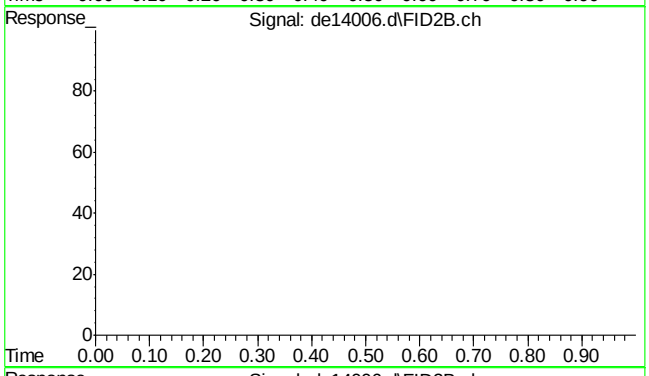
9

SGS ACCUTEST MC45580



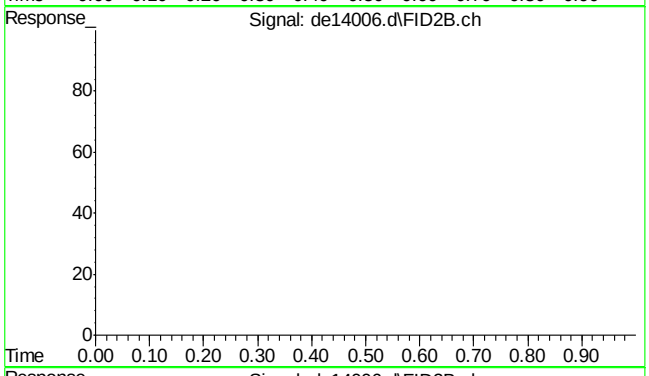
#42 bht

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



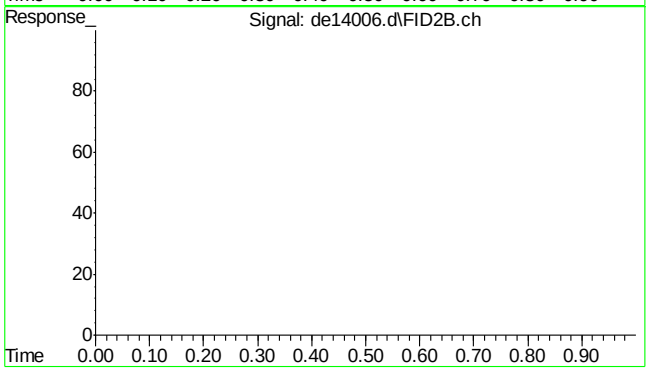
#43 bht

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 MC45580

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14007.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 2:09 pm
Operator : thomasa
Sample : mc45580-2a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:49:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.685	1715932	18.605 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 93.03%#	
6) s 2-bromonaphthalene	7.420	1196881	19.072 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.36%#	
11) s o-terphenyl	9.957	1350107	13.181 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.90%#	
35) s 1-chlorooctadecane	11.225	579840	10.249 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 51.25%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3773566	38.426 µg/mlm
25) h c-9	2.648	826341	11.186 µg/mlm
41) h c-36	17.008	797218	11.933 µg/mlm

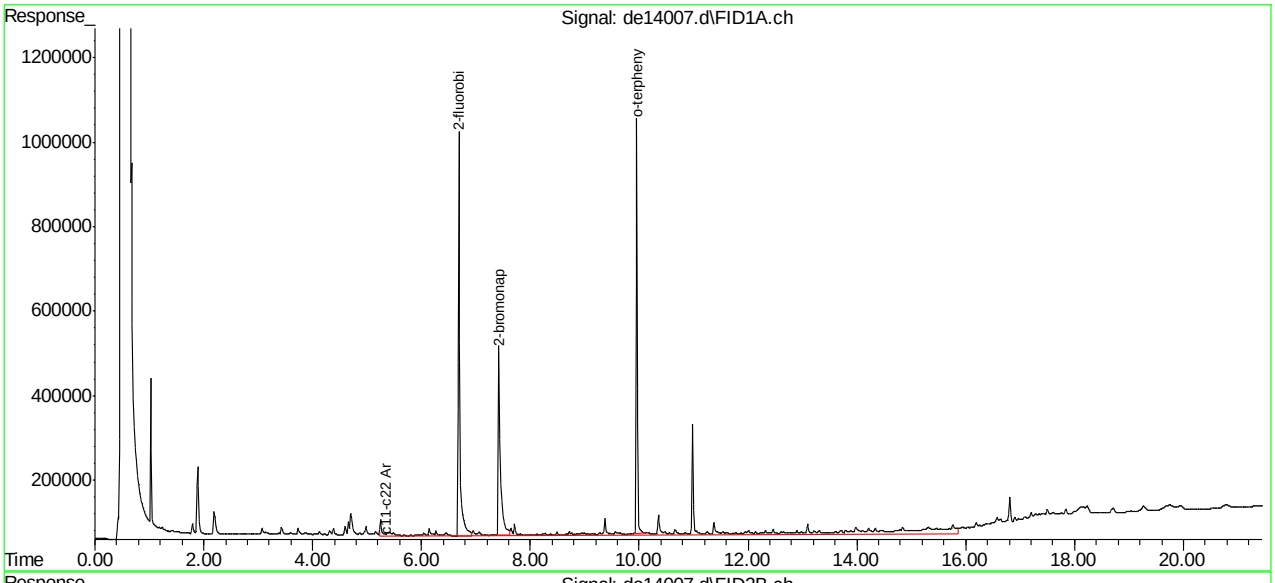
(f)=RT Delta > 1/2 Window (m)=manual int.

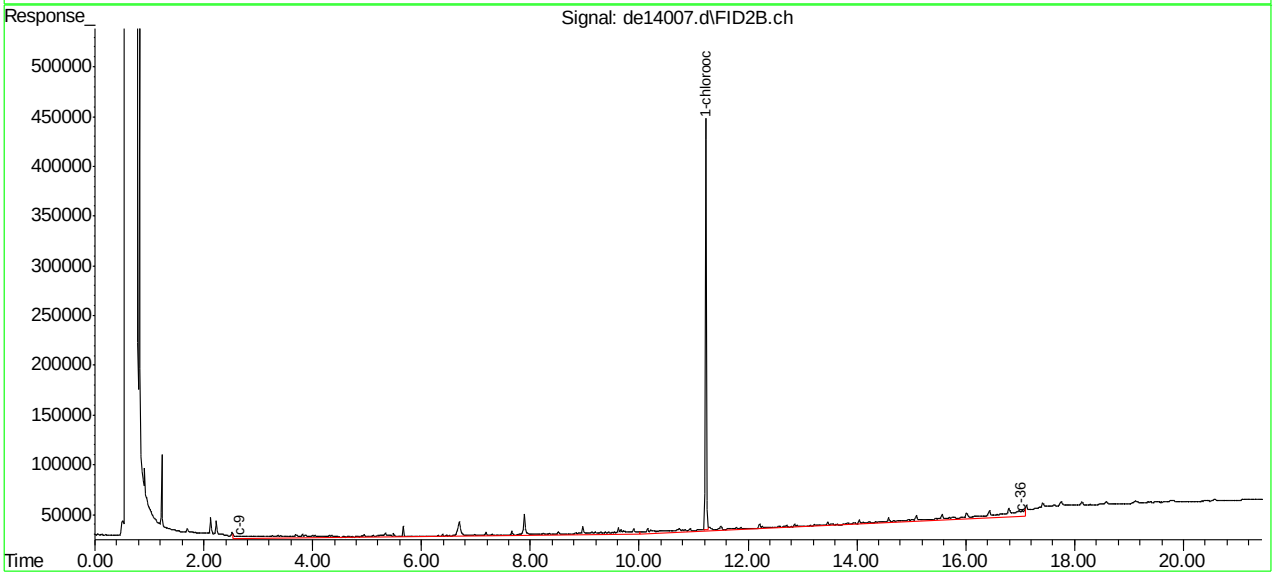
Quantitation Report (QT Reviewed)

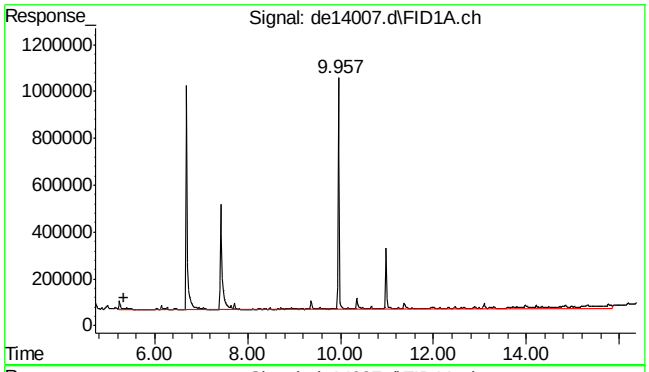
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14007.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 2:09 pm
Operator : thomasa
Sample : mc45580-2a,op47292
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:49:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

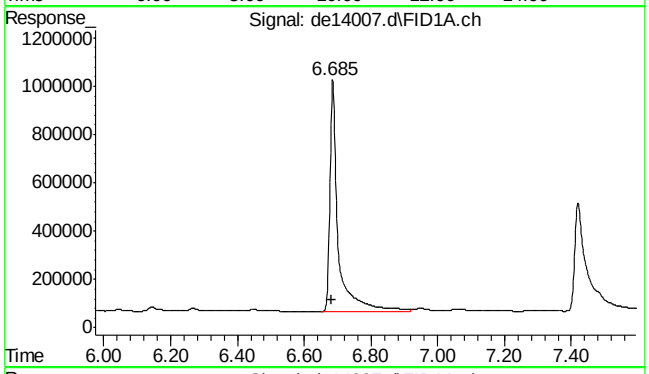






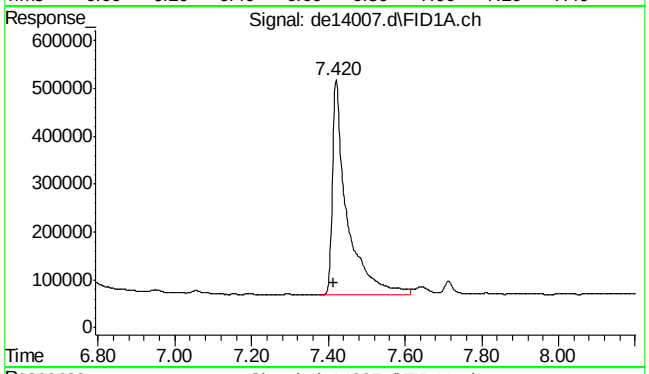
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3773566
Conc: 38.43 µg/ml m



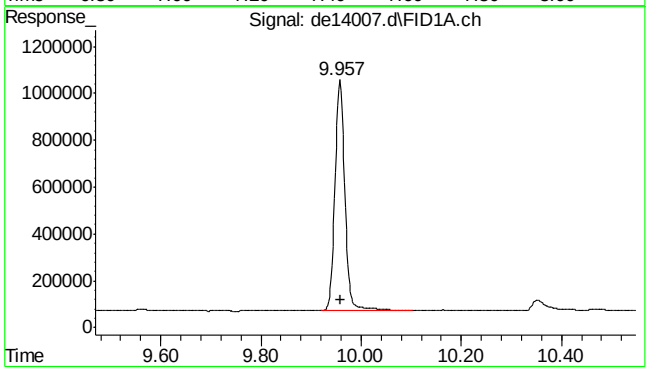
#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: 0.003 min
Response: 1715932
Conc: 18.60 µg/ml



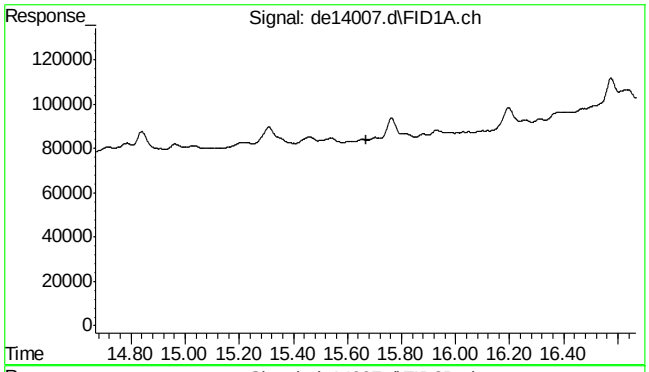
#6 2-bromonaphthalene

R.T.: 7.420 min
Delta R.T.: 0.005 min
Response: 1196881
Conc: 19.07 µg/ml



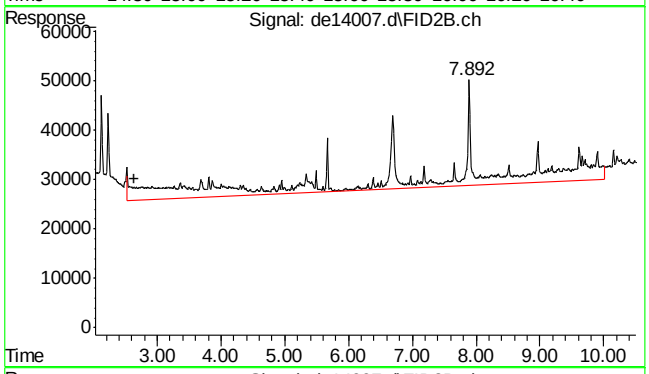
#11 o-terphenyl

R.T.: 9.957 min
Delta R.T.: -0.002 min
Response: 1350107
Conc: 13.18 µg/ml



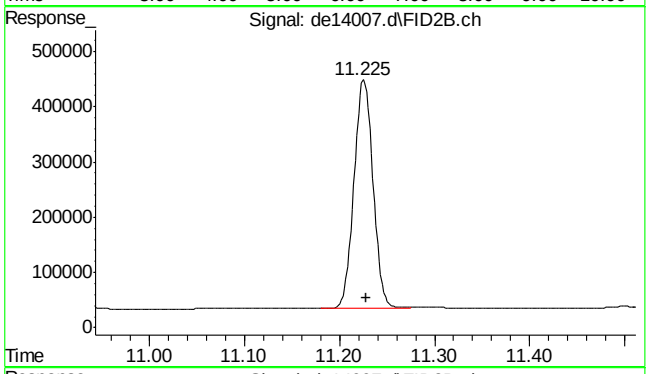
#22 bht

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



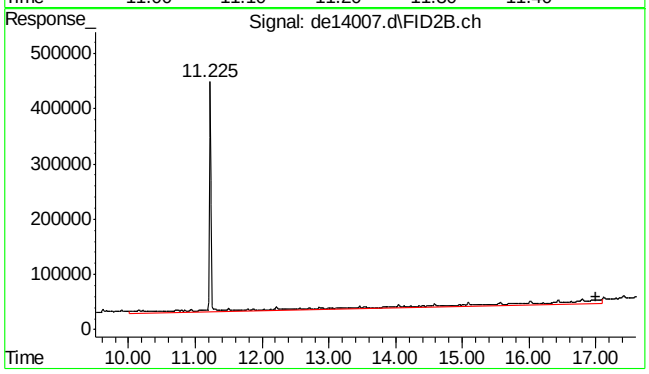
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 826341
Conc: 11.19 µg/ml m



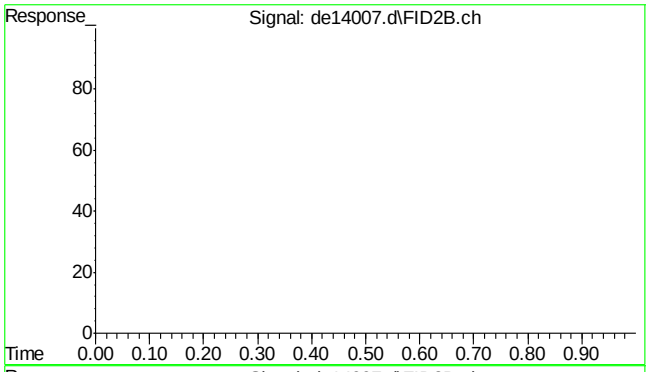
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 579840
Conc: 10.25 µg/ml



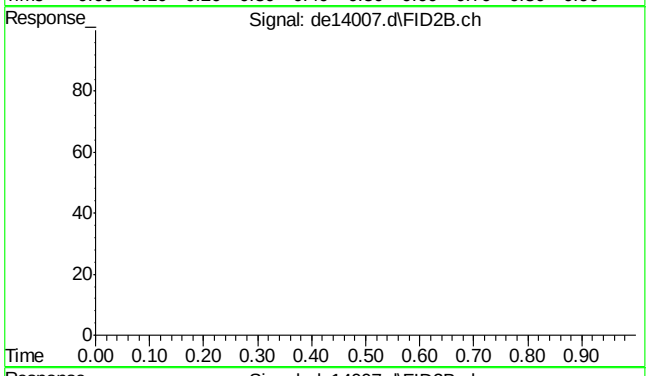
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 797218
Conc: 11.93 µg/ml m



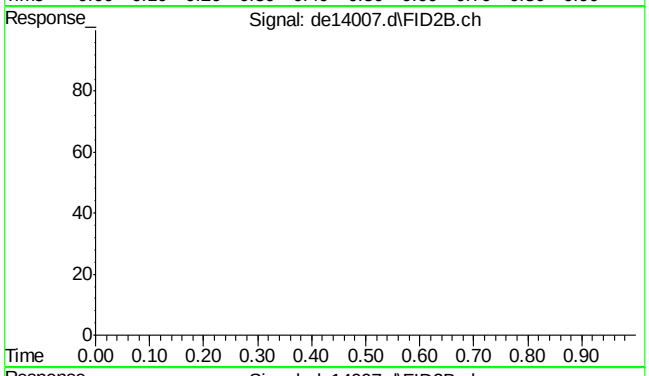
#42 bht

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



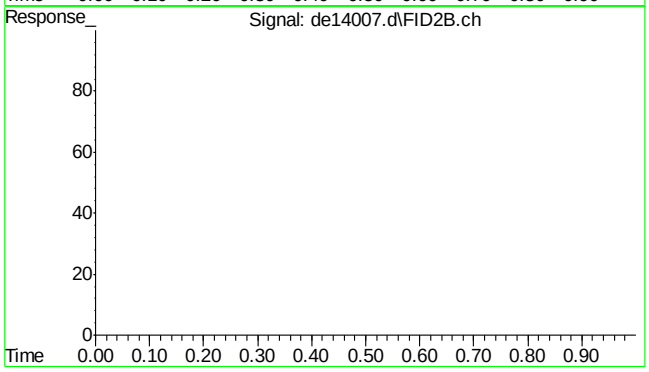
#43 bht

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



#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\DE160502aEPH\
Data File : de14005.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:14 pm
Operator : thomasa
Sample : op47292-mb
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:45:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.683	1989236	21.568 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 107.84%#		
6) s 2-bromonaphthalene	7.418	1375429	21.917 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 109.58%#		
11) s o-terphenyl	9.957	1782875	17.406 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 87.03%#		
35) s 1-chlorooctadecane	11.225	529902	9.366 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 46.83%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2611663	26.594 µg/mlm
25) h c-9	2.648	807357	10.929 µg/mlm
41) h c-36	17.008	669087	10.015 µg/mlm

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

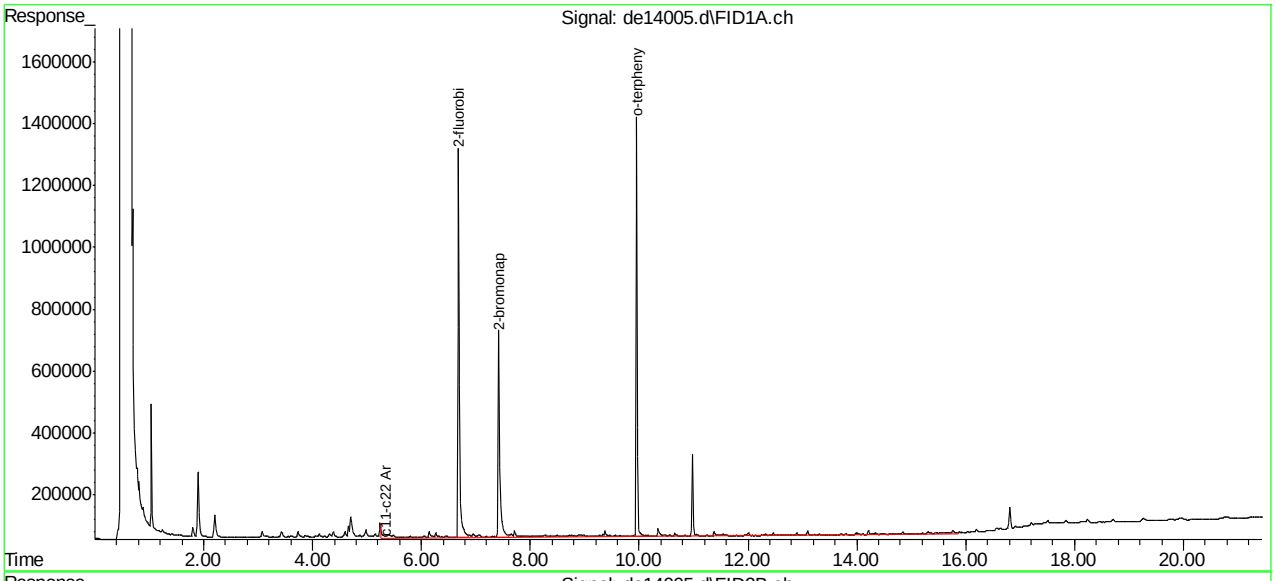
SGS ACCUTEST MC45580

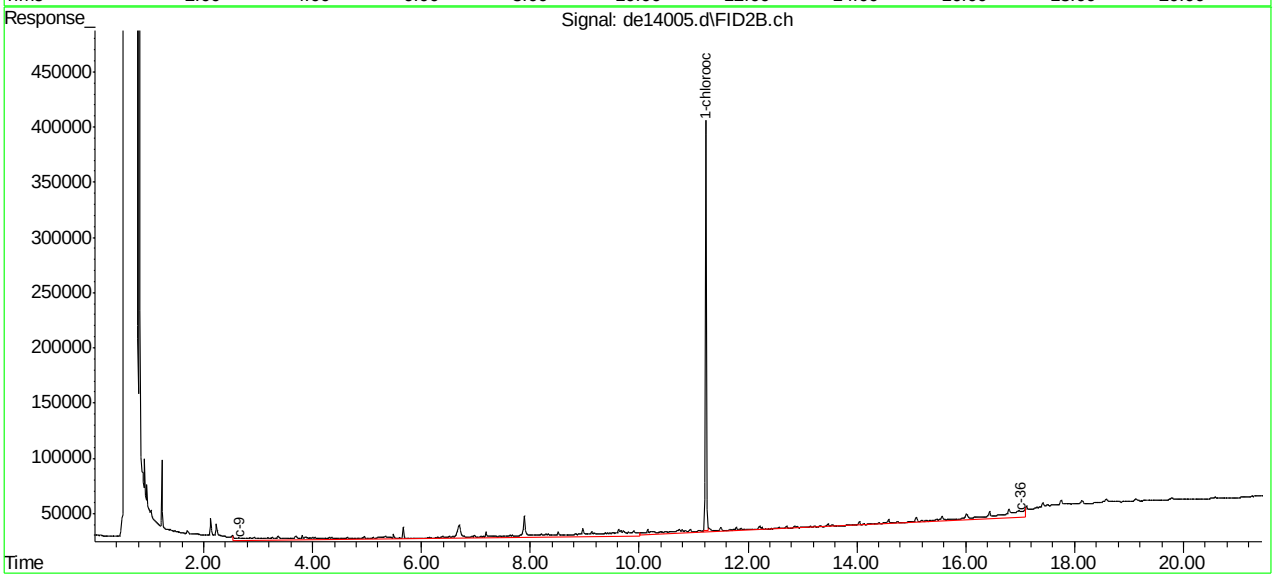
Quantitation Report (QT Reviewed)

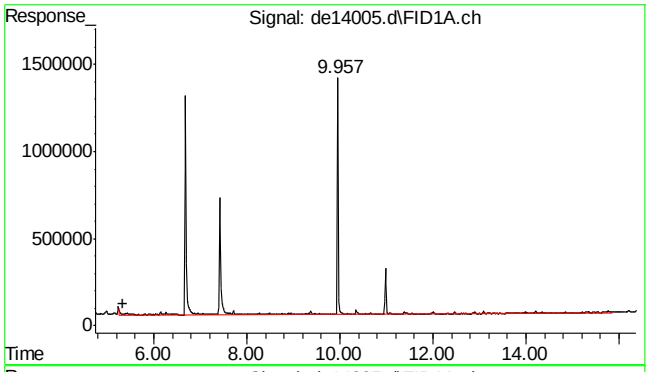
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14005.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 1:14 pm
Operator : thomasa
Sample : op47292-mb
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:45:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

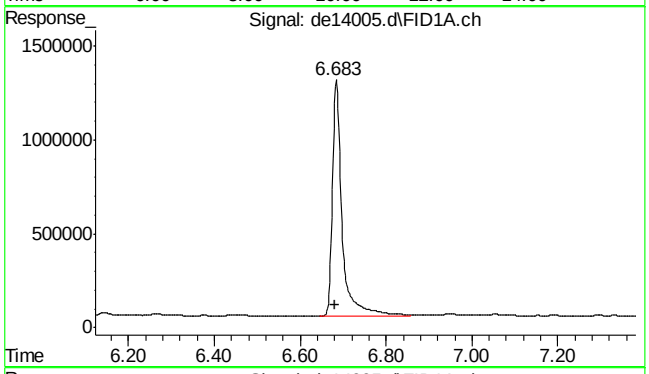






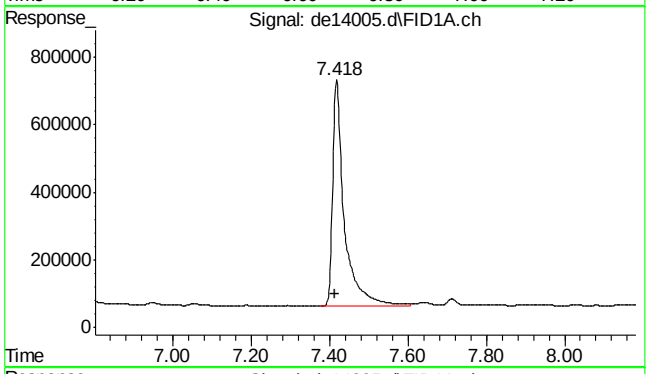
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2611663
Conc: 26.59 µg/ml m



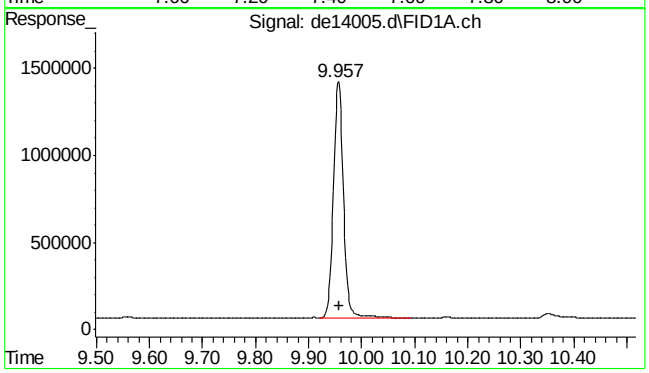
#4 2-fluorobiphenyl

R.T.: 6.683 min
Delta R.T.: 0.002 min
Response: 1989236
Conc: 21.57 µg/ml



#6 2-bromonaphthalene

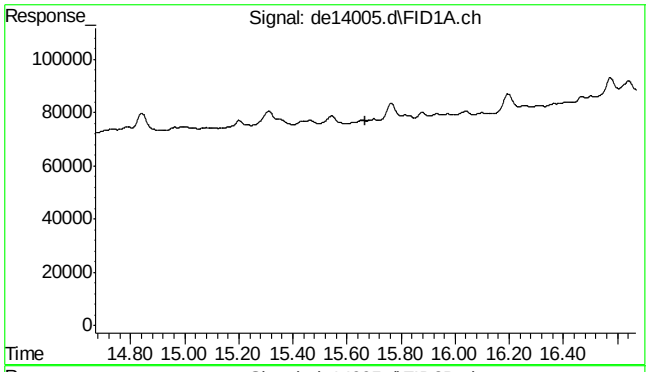
R.T.: 7.418 min
Delta R.T.: 0.003 min
Response: 1375429
Conc: 21.92 µg/ml



#11 o-terphenyl

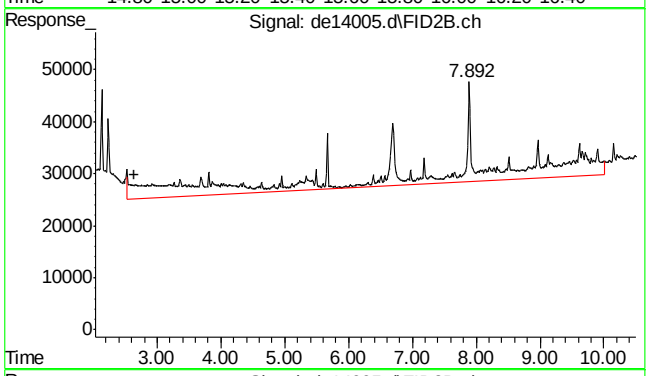
R.T.: 9.957 min
Delta R.T.: -0.002 min
Response: 1782875
Conc: 17.41 µg/ml

SGS ACCUTEST MC45580



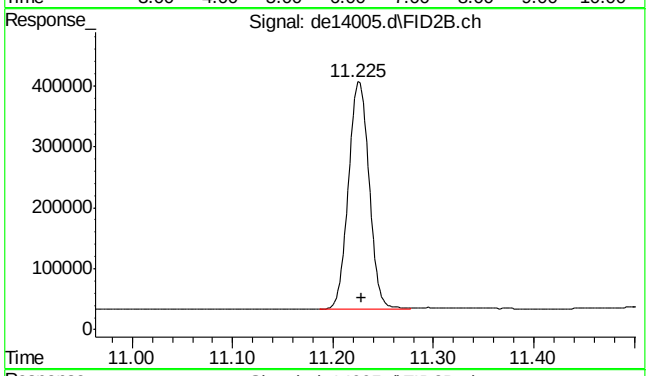
#22 bht

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



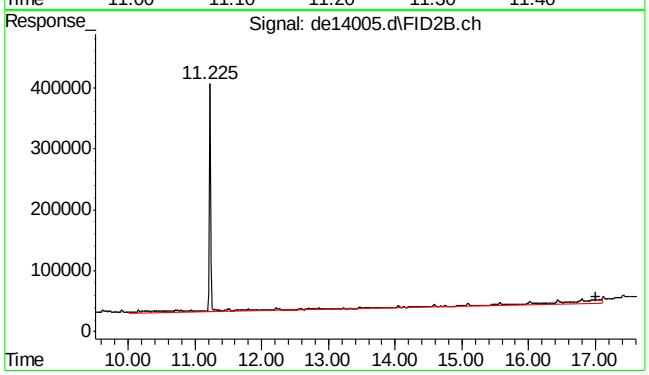
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 807357
Conc: 10.93 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 529902
Conc: 9.37 µg/ml



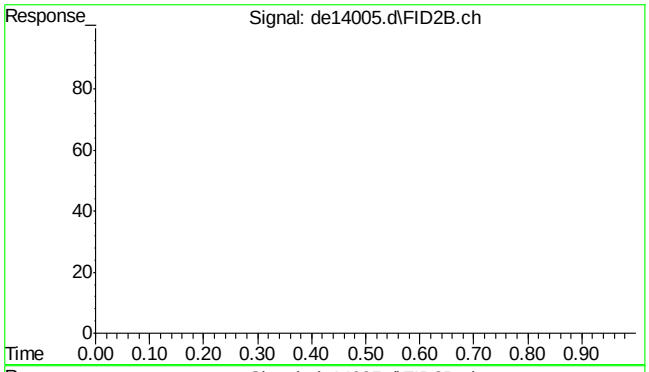
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 669087
Conc: 10.02 µg/ml m

9.2.1

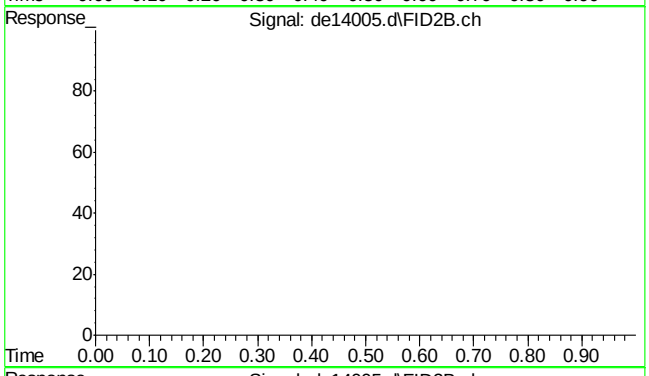
9

SGS ACCUTEST MC45580



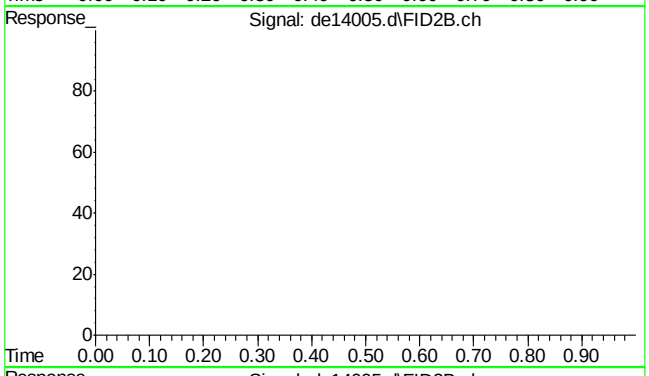
#42 bht

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



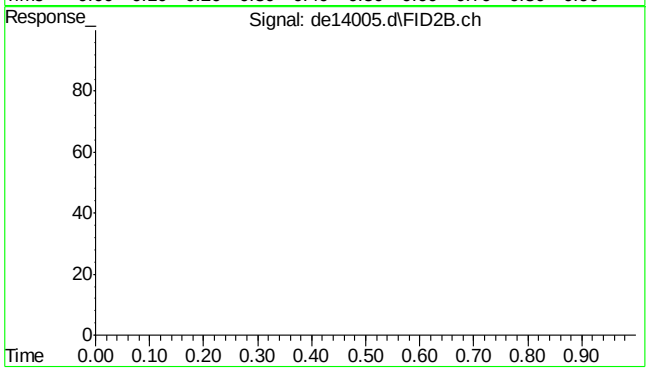
#43 bht

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 MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.688	1512755	16.402 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	82.01%#
6) s 2-bromonaphthalene	7.422	883661	14.081 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	70.41%#
11) s o-terphenyl	9.960	1626423	15.879 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	79.39%#
35) s 1-chlorooctadecane	11.227	920008	16.262 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	81.31%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	38103504	388.001 µg/mlm
2) naphthalene	5.240	1326144	12.858 µg/ml
3) 2-methylnaphthalene	6.138	1406658	13.726 µg/ml
5) acenaphthylene	7.252	1550997	15.417 µg/ml
7) acenaphthene	7.492	1777805	17.197 µg/ml
8) fluorene	8.142	1792554	17.649 µg/ml
9) phenanthrene	9.325	1909171	18.761 µg/ml
10) anthracene	9.383	2227005	22.957 µg/ml
12) fluoranthene	10.833	2260504	22.618 µg/ml
13) pyrene	11.092	2289955	22.569 µg/ml
14) benzo(a)anthracene	12.657	2333180	24.134 µg/ml
15) chrysene	12.705	2343537	24.076 µg/ml
16) benzo(B)fluoranthene	13.958	2419299	24.437 µg/mlm
17) benzo(k)fluoranthene	13.987	2250947	23.819 µg/mlm
18) benzo(a)pyrene	14.293	2300579	24.888 µg/ml
19) indeno(1,2,3-cd)pyrene	15.440	2342886	24.751 µg/mlm
20) dibenzo(ah)anthracene	15.480	2270697	24.844 µg/mlm
21) benzo(ghi)perylene	15.663	2314388	25.123 µg/ml
25) h c-9	2.648	704876	9.542 µg/mlm
26) h c-10	3.815	880968	11.926 µg/ml
27) naphthalene #2	5.490	6409	0.080 µg/ml
28) c-12	5.665	1069117	14.473 µg/ml
29) 2-methylnaphthalene #2	6.383	5111	0.063 µg/ml
30) c-14	7.183	1273673	17.242 µg/ml
31) c-16	8.513	1440016	19.493 µg/ml
32) c-18	9.707	1634857	22.131 µg/ml
33) c-19	10.263	1712909	25.640 µg/ml
34) c-20	10.793	1756337	26.290 µg/ml
36) c-22	11.788	1814691	27.163 µg/ml
37) c-24	12.707	1798409	26.920 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	13.560	1761207	26.363 µg/ml
39)	c-28	14.352	1741523	26.068 µg/ml
40) h	c-30	15.098	1709246	25.585 µg/ml
41) h	c-36	17.008	1241209	18.579 µg/mlm

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

9.3.1

9

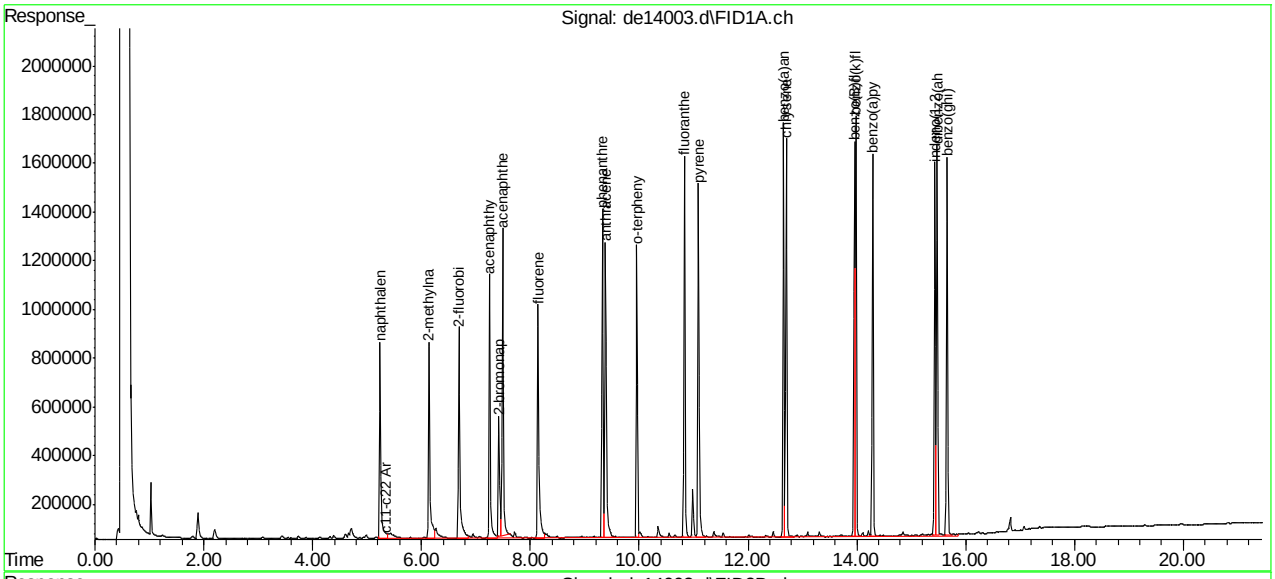
SGS ACCUTEST MC45580

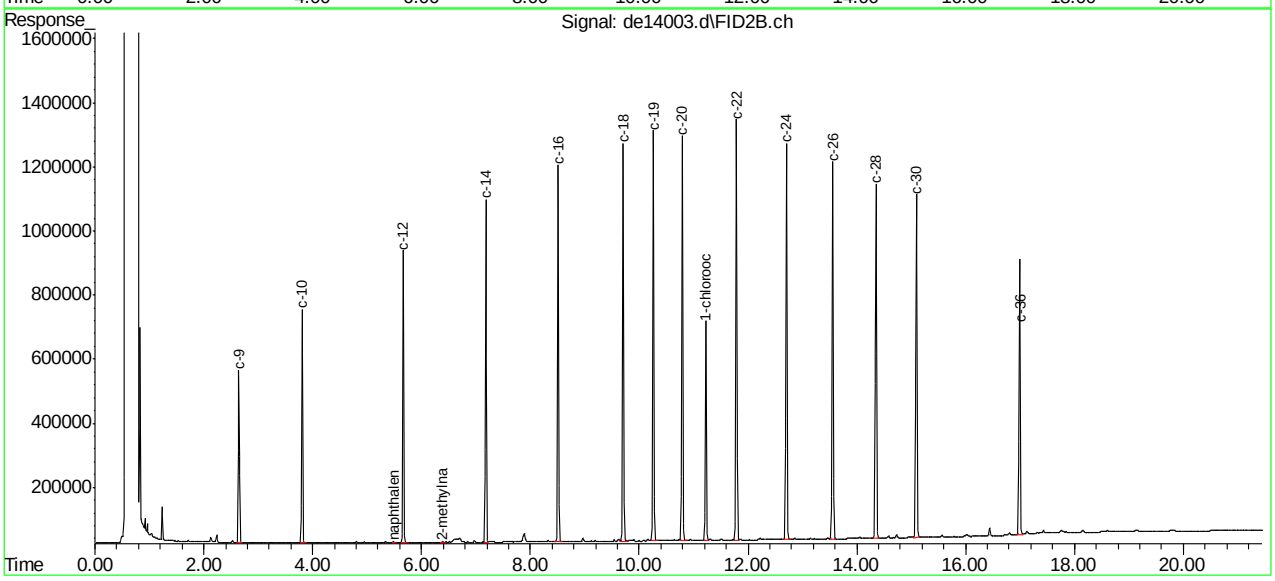
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

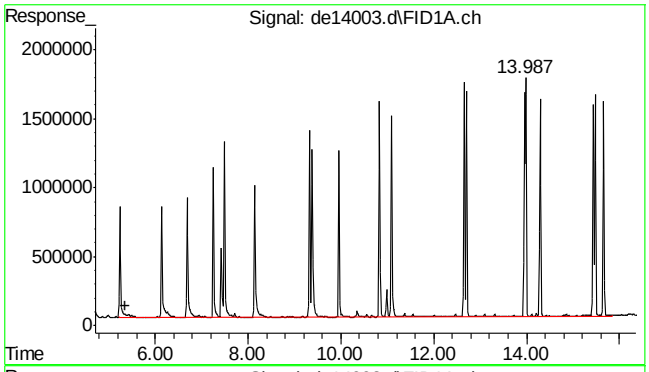
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:32 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



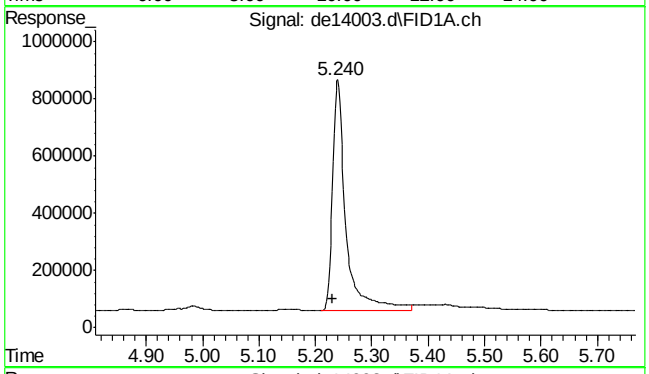


SGS ACCUTEST MC45580



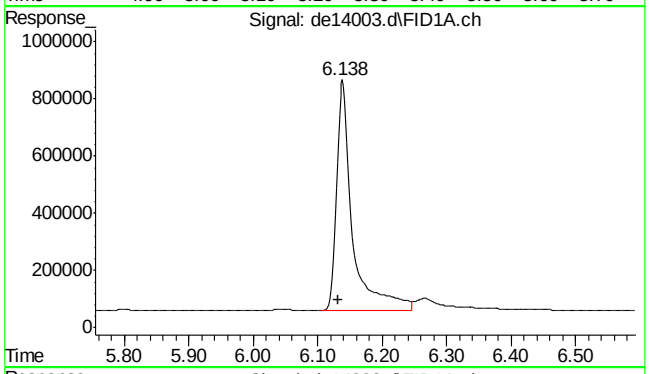
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 38103504
Conc: 388.00 µg/ml m



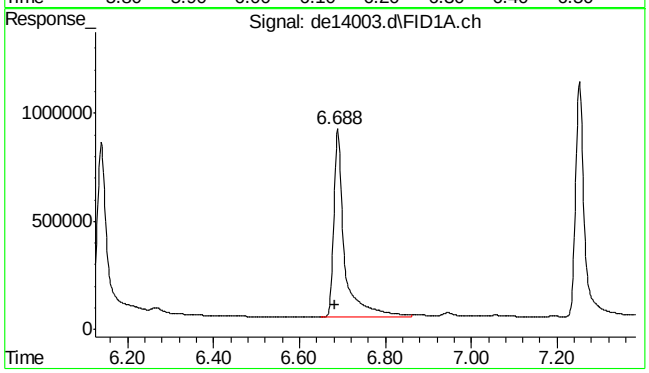
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 1326144
Conc: 12.86 µg/ml



#3 2-methylnaphthalene

R.T.: 6.138 min
Delta R.T.: 0.007 min
Response: 1406658
Conc: 13.73 µg/ml



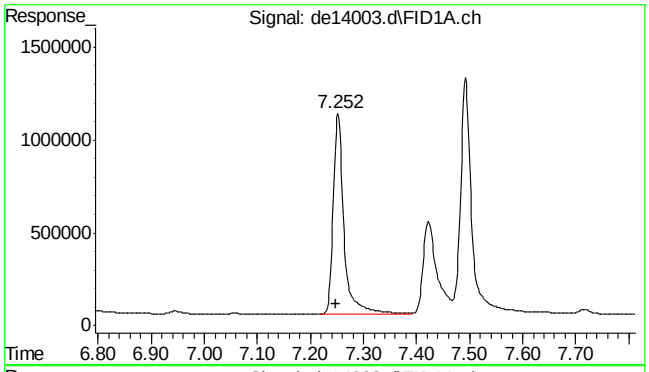
#4 2-fluorobiphenyl

R.T.: 6.688 min
Delta R.T.: 0.007 min
Response: 1512755
Conc: 16.40 µg/ml

9.3.1

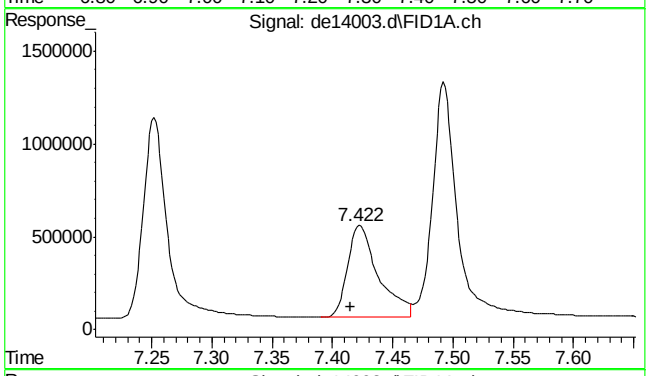
9

SGS ACCUTEST MC45580



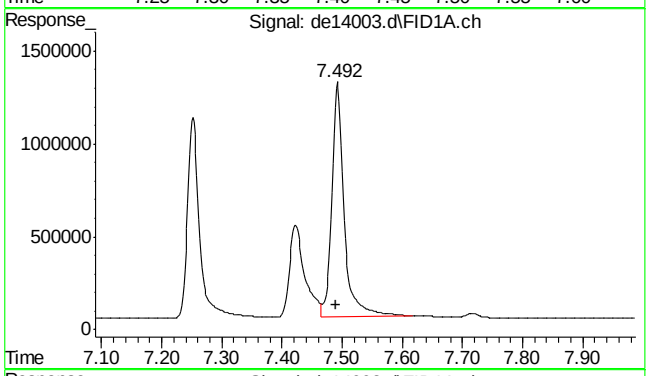
#5 acenaphthylene

R.T.: 7.252 min
Delta R.T.: 0.003 min
Response: 1550997
Conc: 15.42 µg/ml



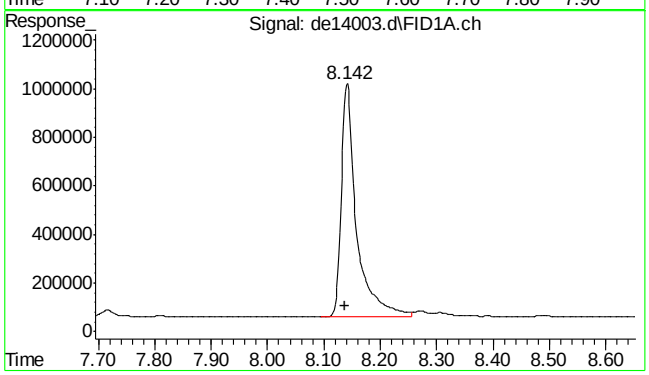
#6 2-bromonaphthalene

R.T.: 7.422 min
Delta R.T.: 0.007 min
Response: 883661
Conc: 14.08 µg/ml



#7 acenaphthene

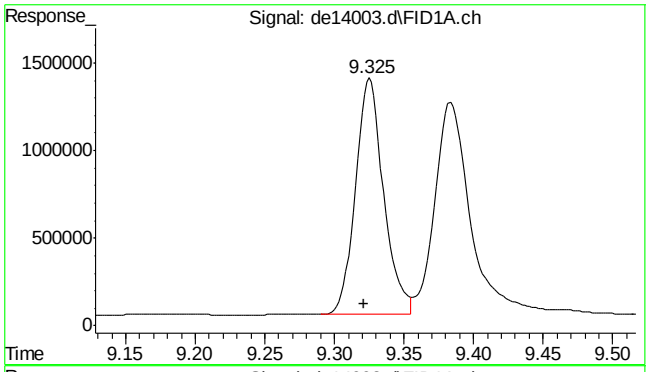
R.T.: 7.492 min
Delta R.T.: 0.002 min
Response: 1777805
Conc: 17.20 µg/ml



#8 fluorene

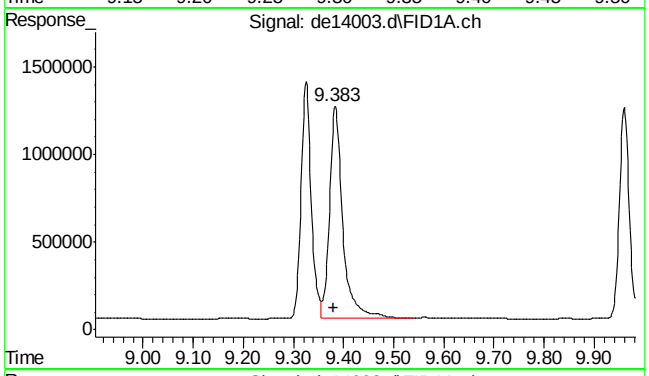
R.T.: 8.142 min
Delta R.T.: 0.005 min
Response: 1792554
Conc: 17.65 µg/ml

SGS ACCUTEST MC45580



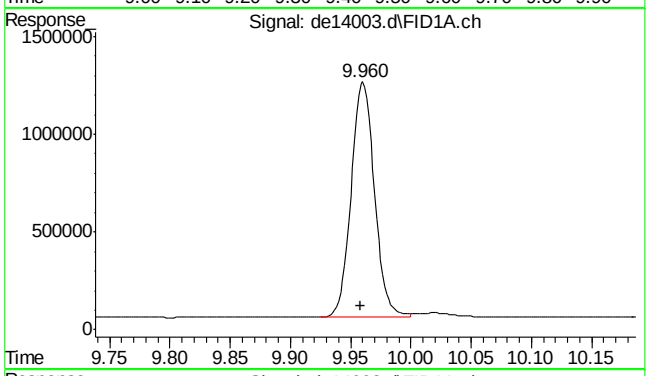
#9 phenanthrene

R.T.: 9.325 min
Delta R.T.: 0.003 min
Response: 1909171
Conc: 18.76 µg/ml



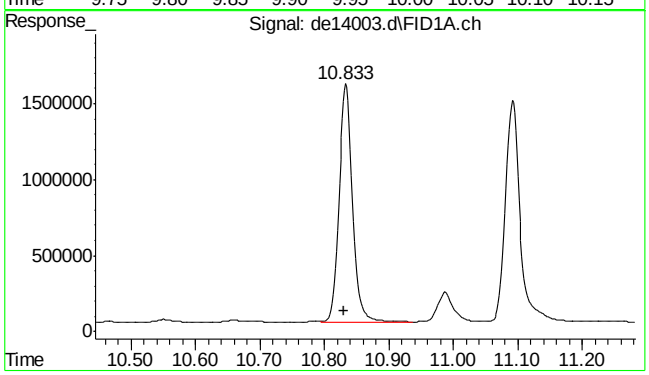
#10 anthracene

R.T.: 9.383 min
Delta R.T.: 0.003 min
Response: 2227005
Conc: 22.96 µg/ml



#11 o-terphenyl

R.T.: 9.960 min
Delta R.T.: 0.002 min
Response: 1626423
Conc: 15.88 µg/ml



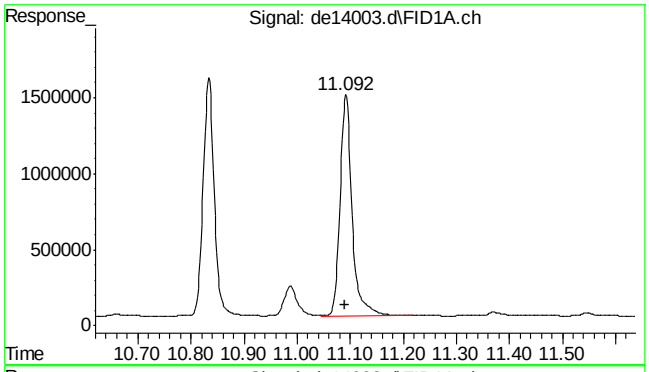
#12 fluoranthene

R.T.: 10.833 min
Delta R.T.: 0.003 min
Response: 2260504
Conc: 22.62 µg/ml

9.3.1

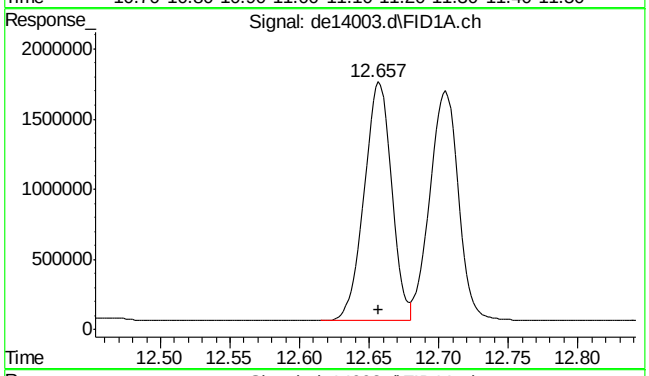
9

SGS ACCUTEST MC45580



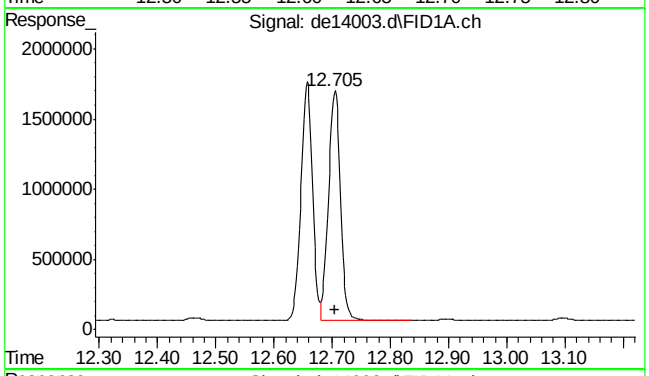
#13 pyrene

R.T.: 11.092 min
Delta R.T.: 0.002 min
Response: 2289955
Conc: 22.57 µg/ml



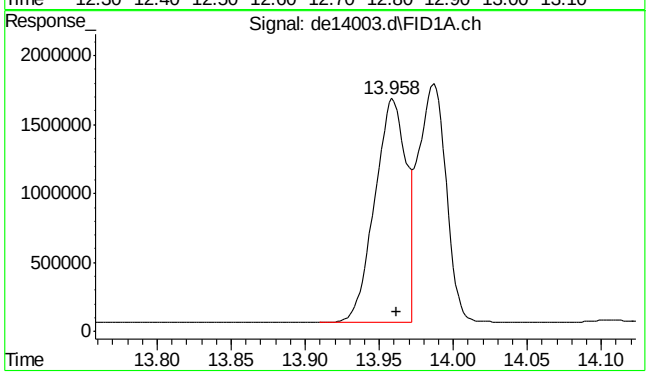
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2333180
Conc: 24.13 µg/ml



#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2343537
Conc: 24.08 µg/ml



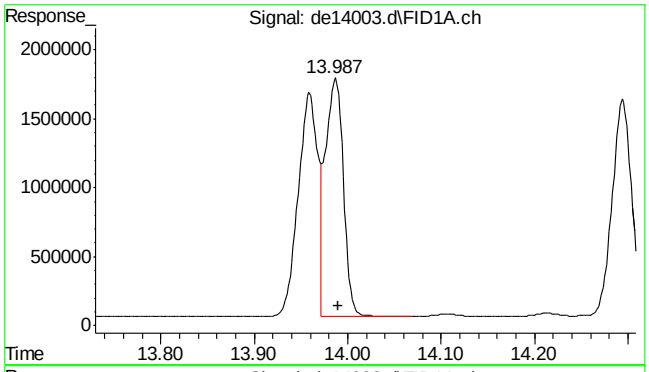
#16 benzo(B)fluoranthene

R.T.: 13.958 min
Delta R.T.: -0.003 min
Response: 2419299
Conc: 24.44 µg/ml m

9.3.1

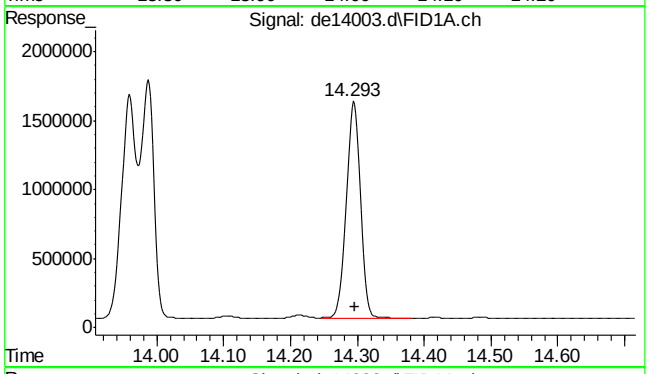
9

SGS ACCUTEST MC45580



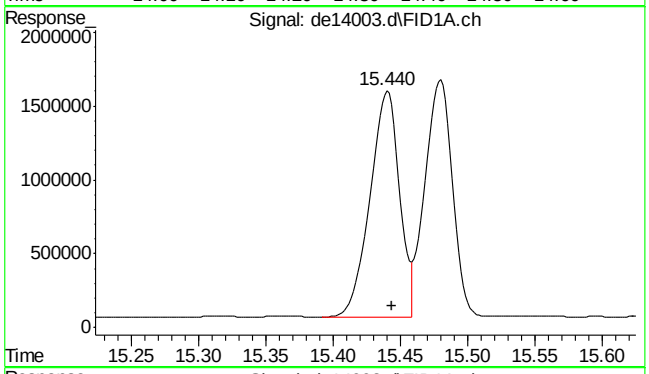
#17 benzo(k)fluoranthene

R.T.: 13.987 min
Delta R.T.: -0.003 min
Response: 2250947
Conc: 23.82 µg/ml m



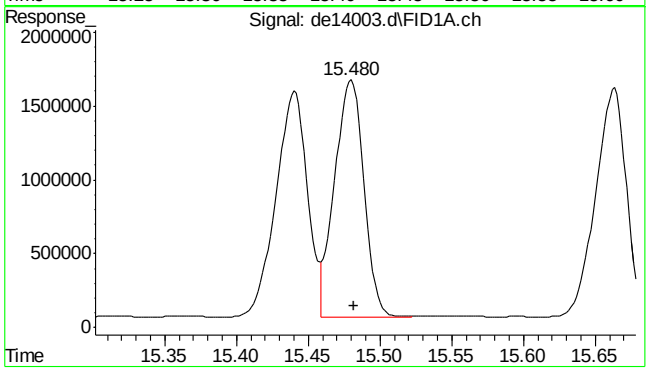
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2300579
Conc: 24.89 µg/ml



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

R.T.: 15.440 min
Delta R.T.: -0.003 min
Response: 2342886
Conc: 24.75 µg/ml m



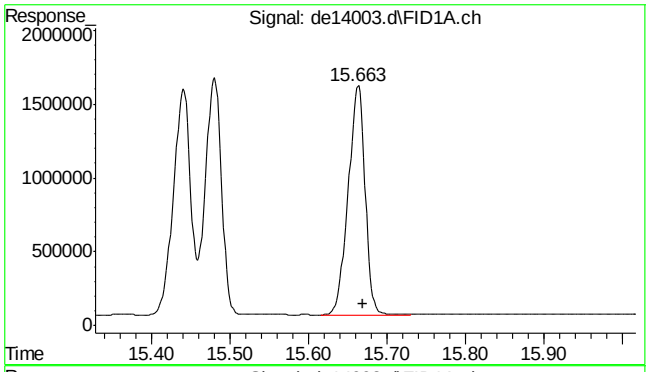
#20 dibenzo(ah)anthracene

R.T.: 15.480 min
Delta R.T.: -0.002 min
Response: 2270697
Conc: 24.84 µg/ml m

9.3.1

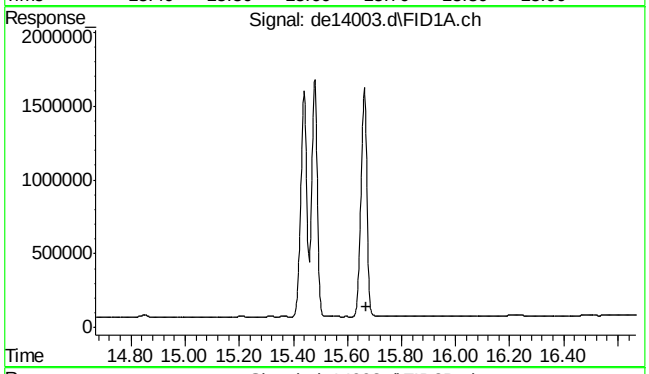
9

SGS ACCUTEST MC45580



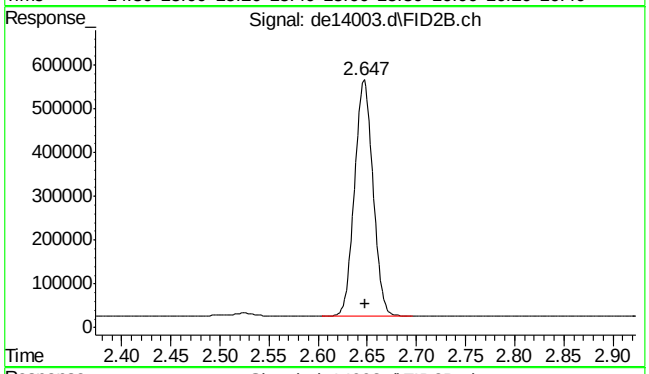
#21 benzo(ghi)perylene

R.T.: 15.663 min
Delta R.T.: -0.005 min
Response: 2314388
Conc: 25.12 µg/ml



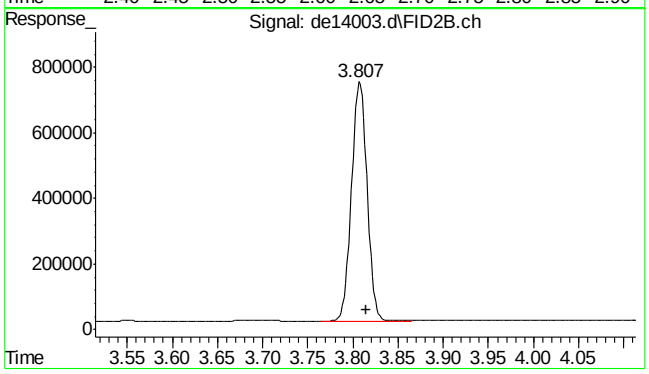
#22 bht

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



#25 c-9

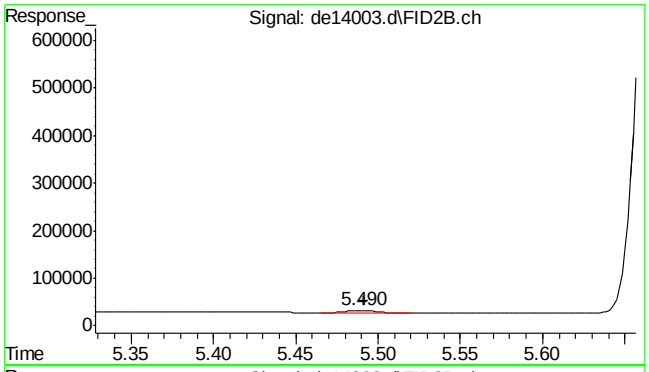
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 704876
Conc: 9.54 µg/ml m



#26 c-10

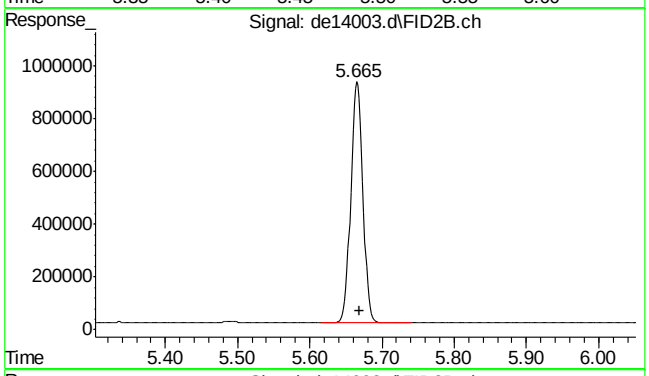
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 880968
Conc: 11.93 µg/ml

SGS ACCUTEST MC45580



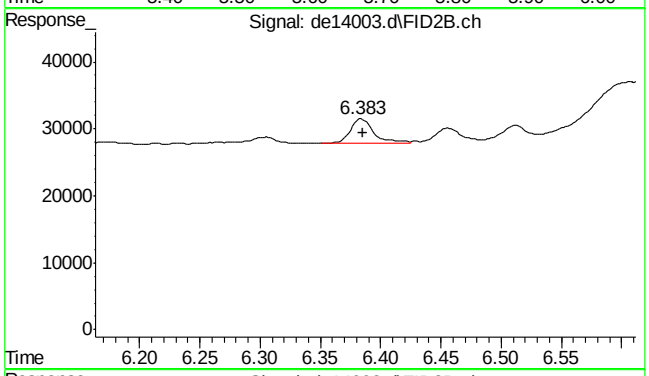
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: -0.002 min
Response: 6409
Conc: 0.08 µg/ml



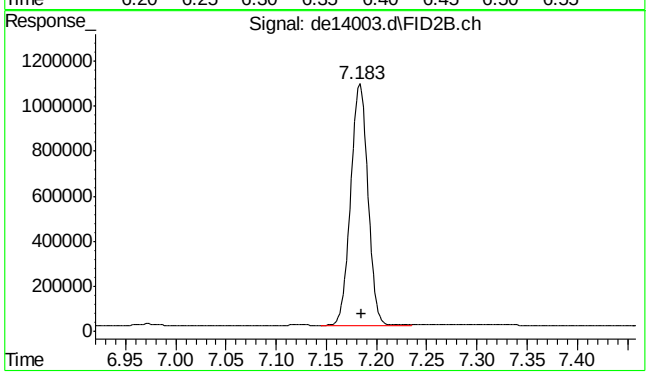
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 1069117
Conc: 14.47 µg/ml



#29 2-methylnaphthalene #2

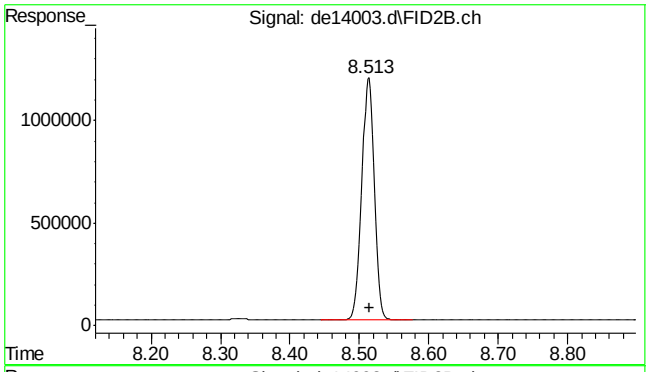
R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 5111
Conc: 0.06 µg/ml



#30 c-14

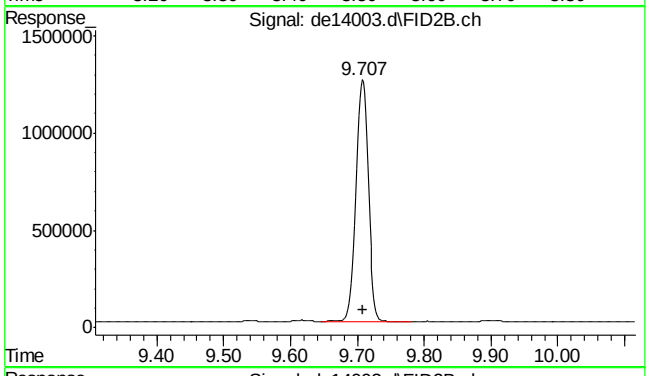
R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1273673
Conc: 17.24 µg/ml

SGS ACCUTEST MC45580



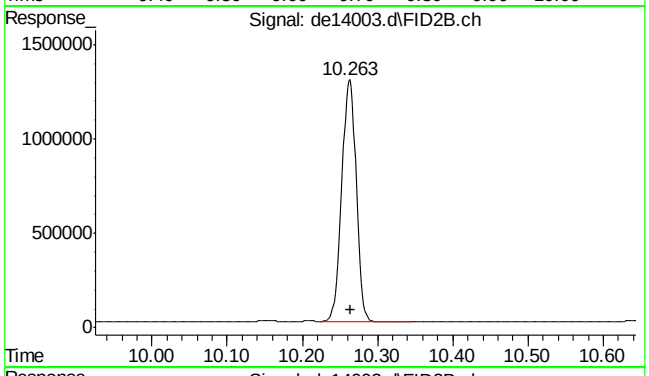
#31 c-16

R.T.: 8.513 min
Delta R.T.: -0.002 min
Response: 1440016
Conc: 19.49 µg/ml



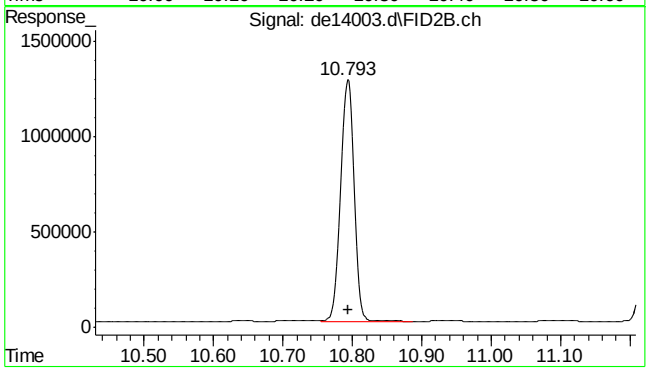
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1634857
Conc: 22.13 µg/ml



#33 c-19

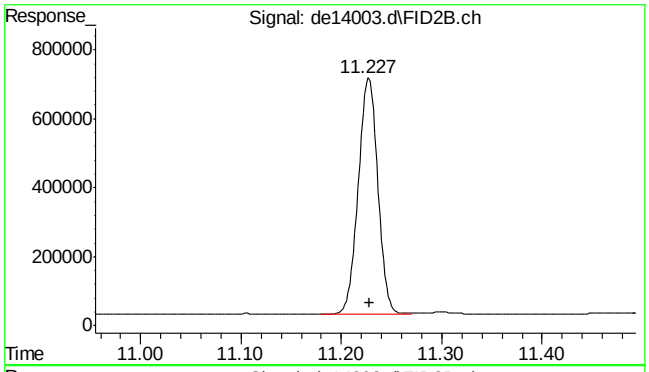
R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 1712909
Conc: 25.64 µg/ml



#34 c-20

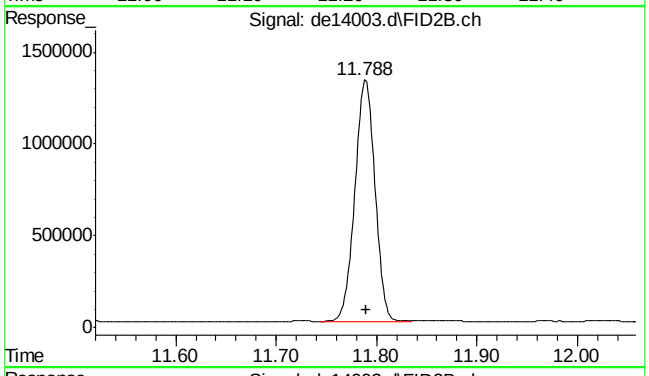
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 1756337
Conc: 26.29 µg/ml

SGS ACCUTEST MC45580



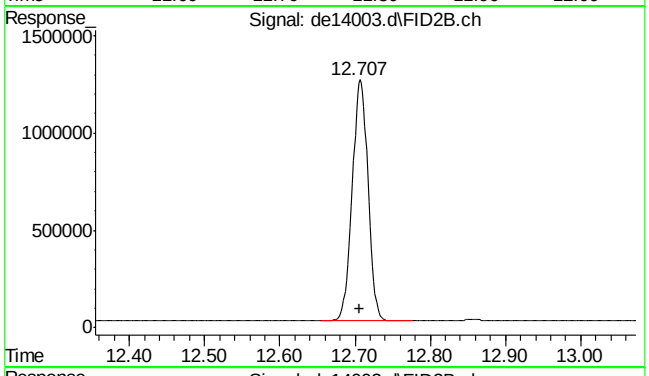
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 920008
Conc: 16.26 µg/ml



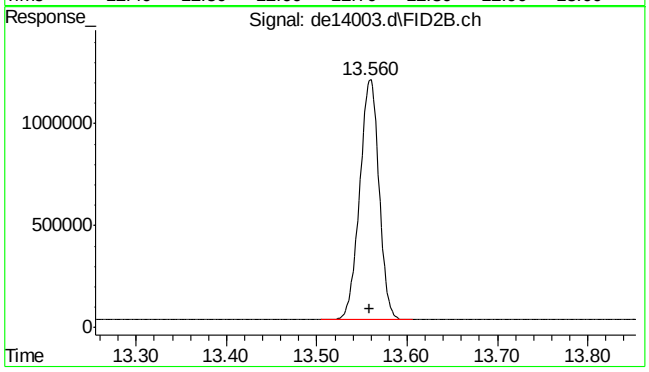
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1814691
Conc: 27.16 µg/ml



#37 c-24

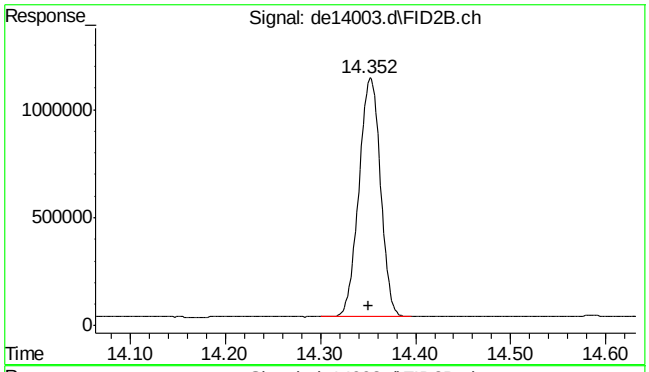
R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1798409
Conc: 26.92 µg/ml



#38 c-26

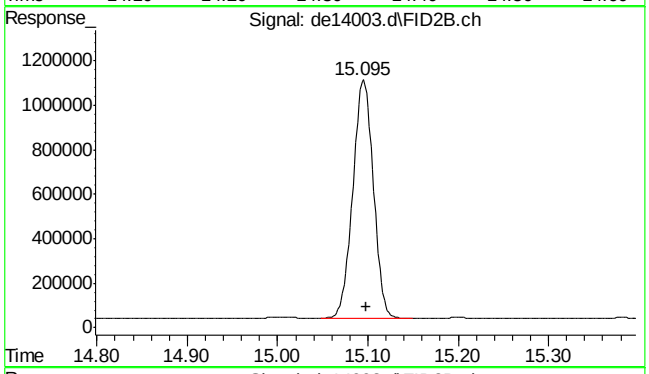
R.T.: 13.560 min
Delta R.T.: 0.002 min
Response: 1761207
Conc: 26.36 µg/ml

SGS ACCUTEST MC45580



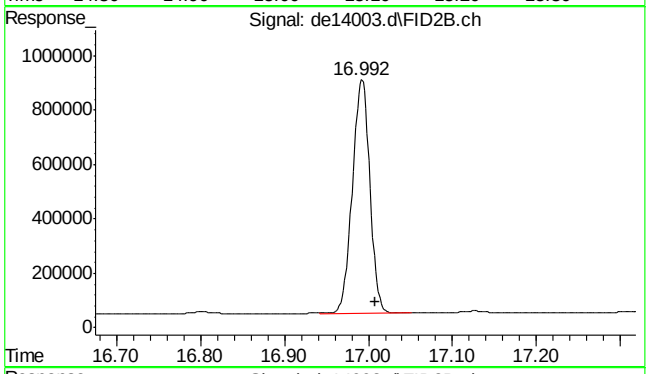
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.002 min
Response: 1741523
Conc: 26.07 µg/ml



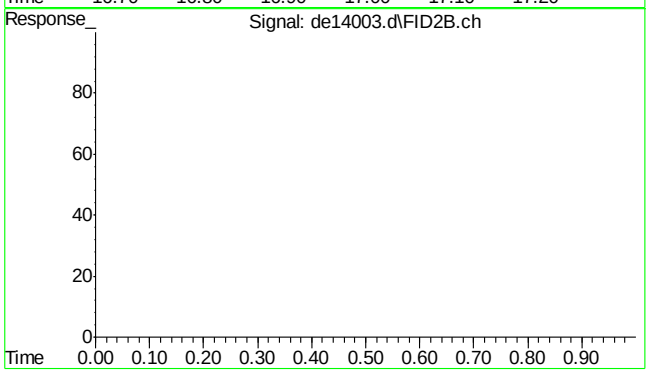
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1709246
Conc: 25.59 µg/ml



#41 c-36

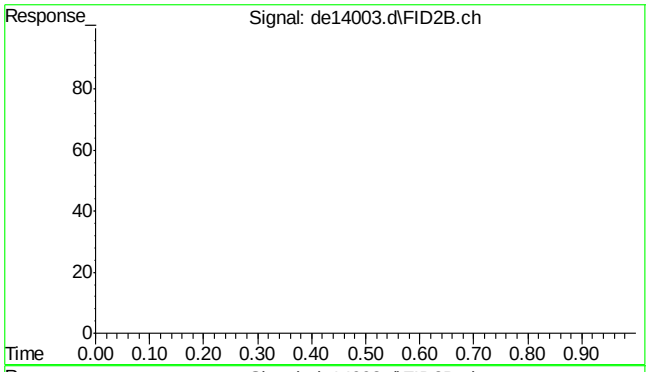
R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1241209
Conc: 18.58 µg/ml m



#42 bht

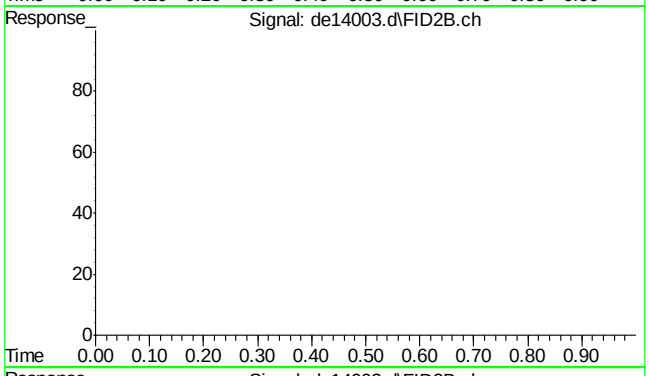
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45580



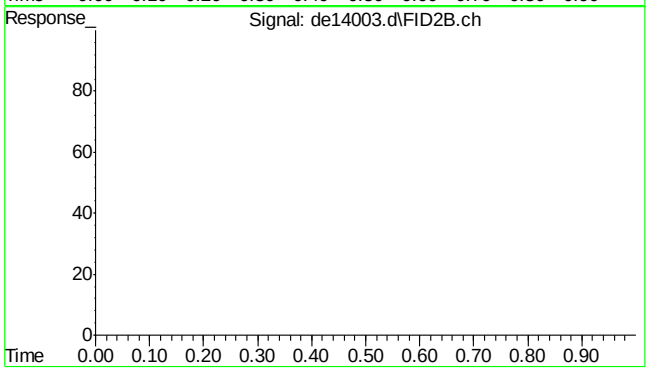
#43 bht

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.

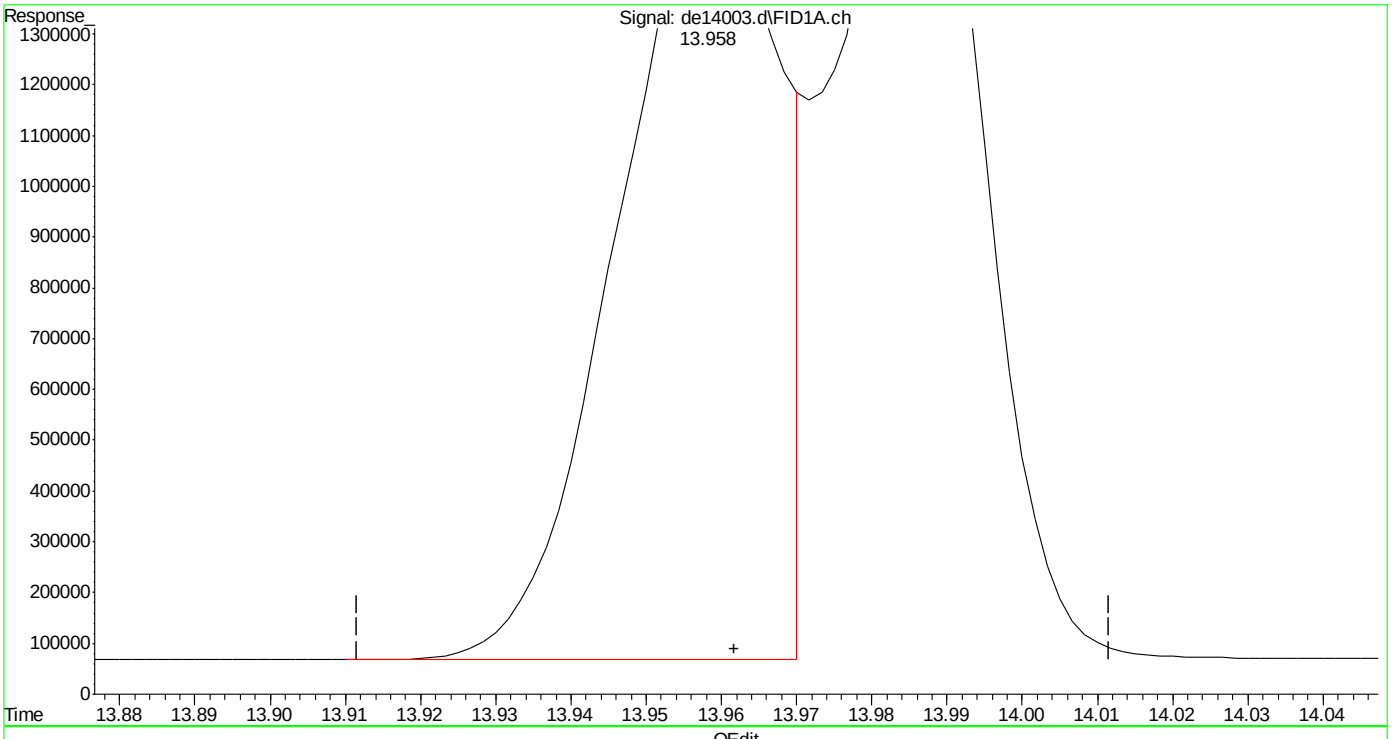
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.958min 23.312 µg/ml
response 2307957

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:31 2016

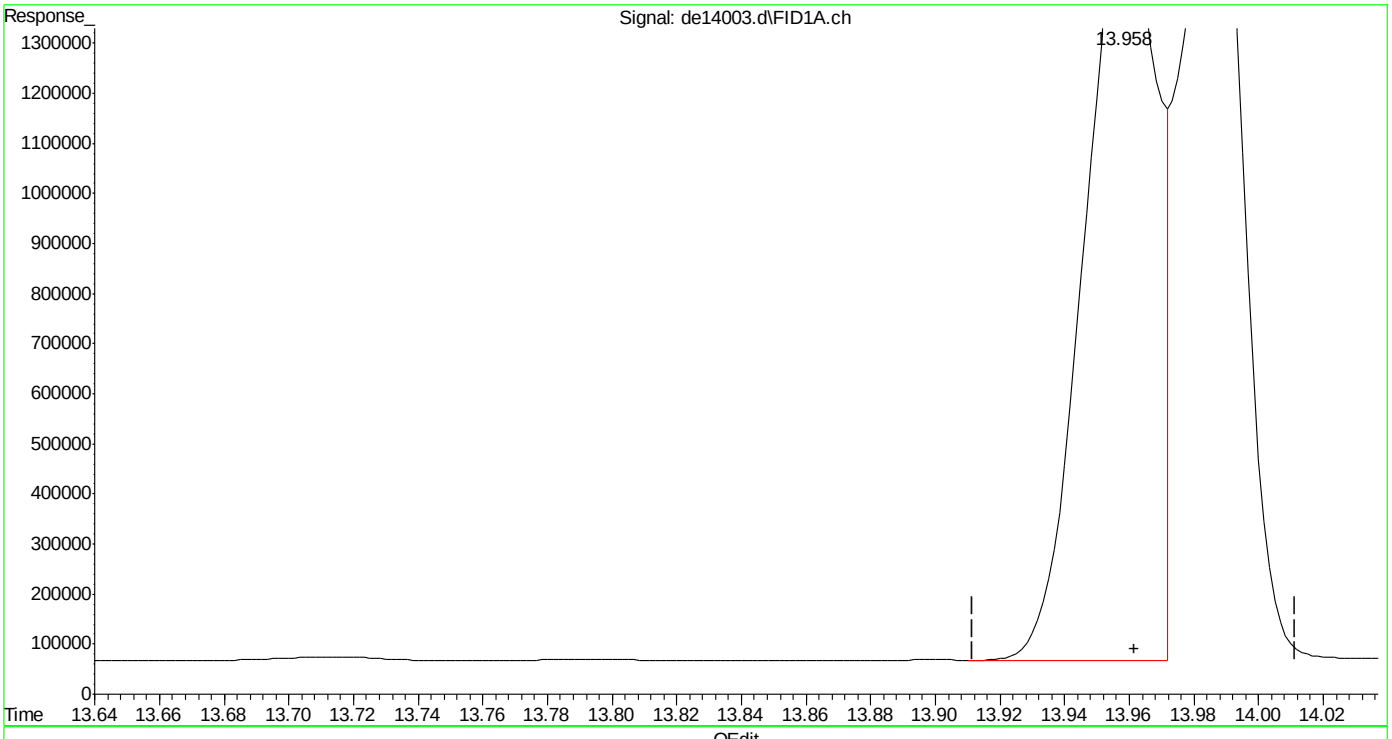
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.958min 24.437 µg/ml m
response 2419299

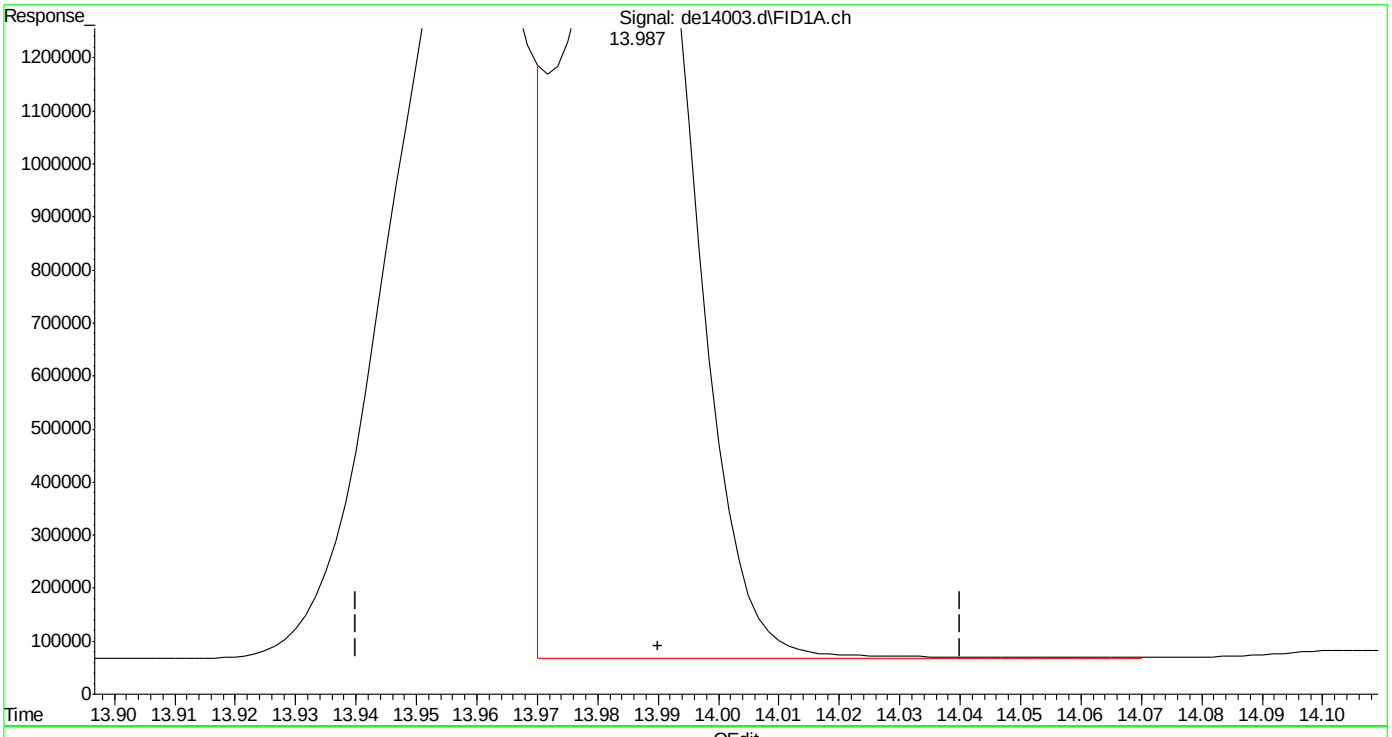
(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:44 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.987min 24.954 µg/ml
response 2358185

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:12:48 2016 Page: 1

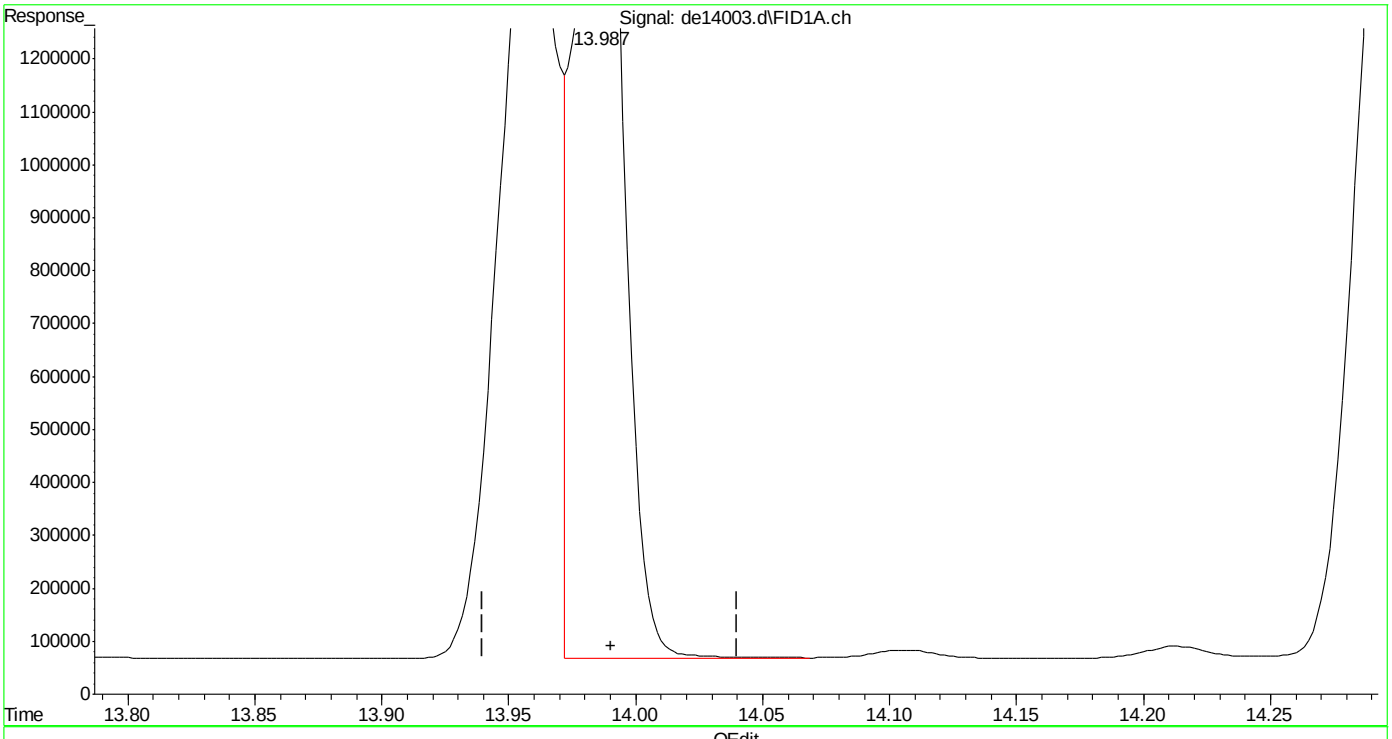
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.987min 23.819 µg/ml m
response 2250947

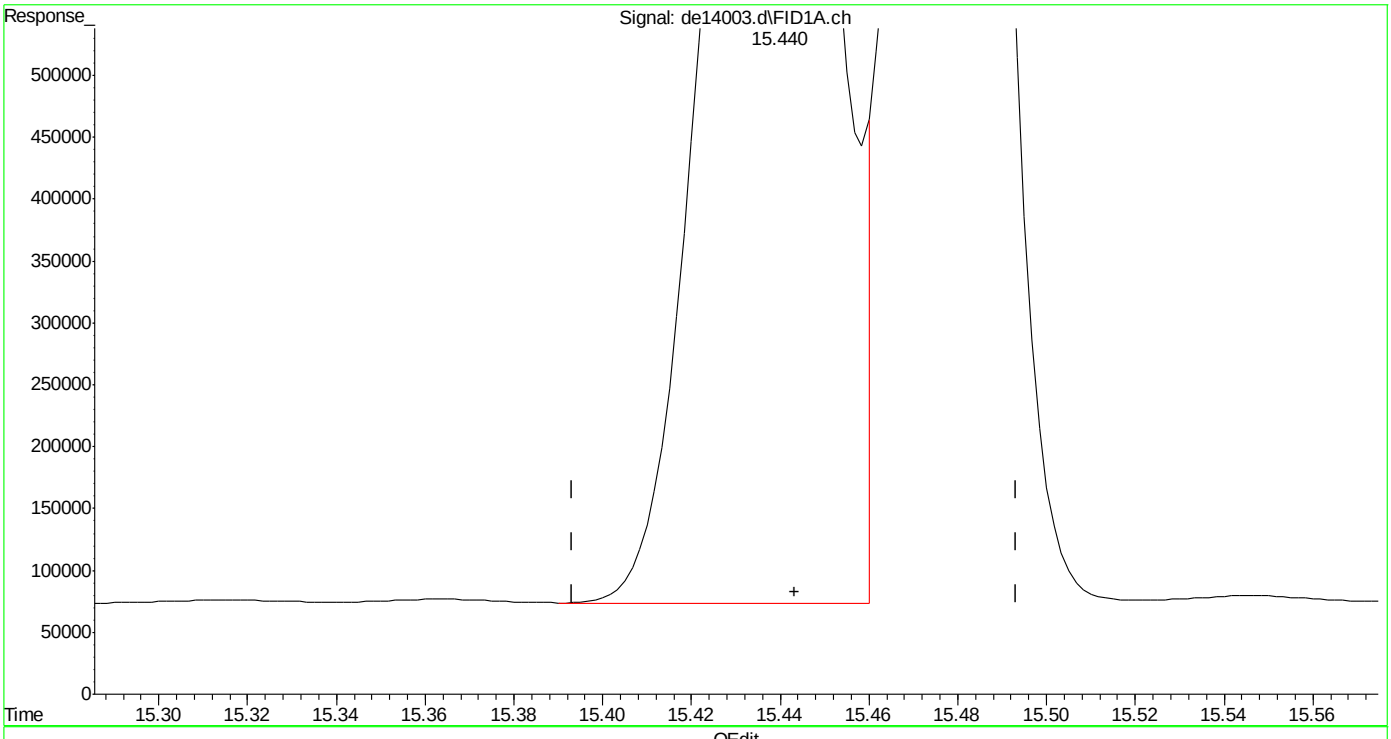
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.440min 25.139 µg/ml
response 2379642

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:07 2016

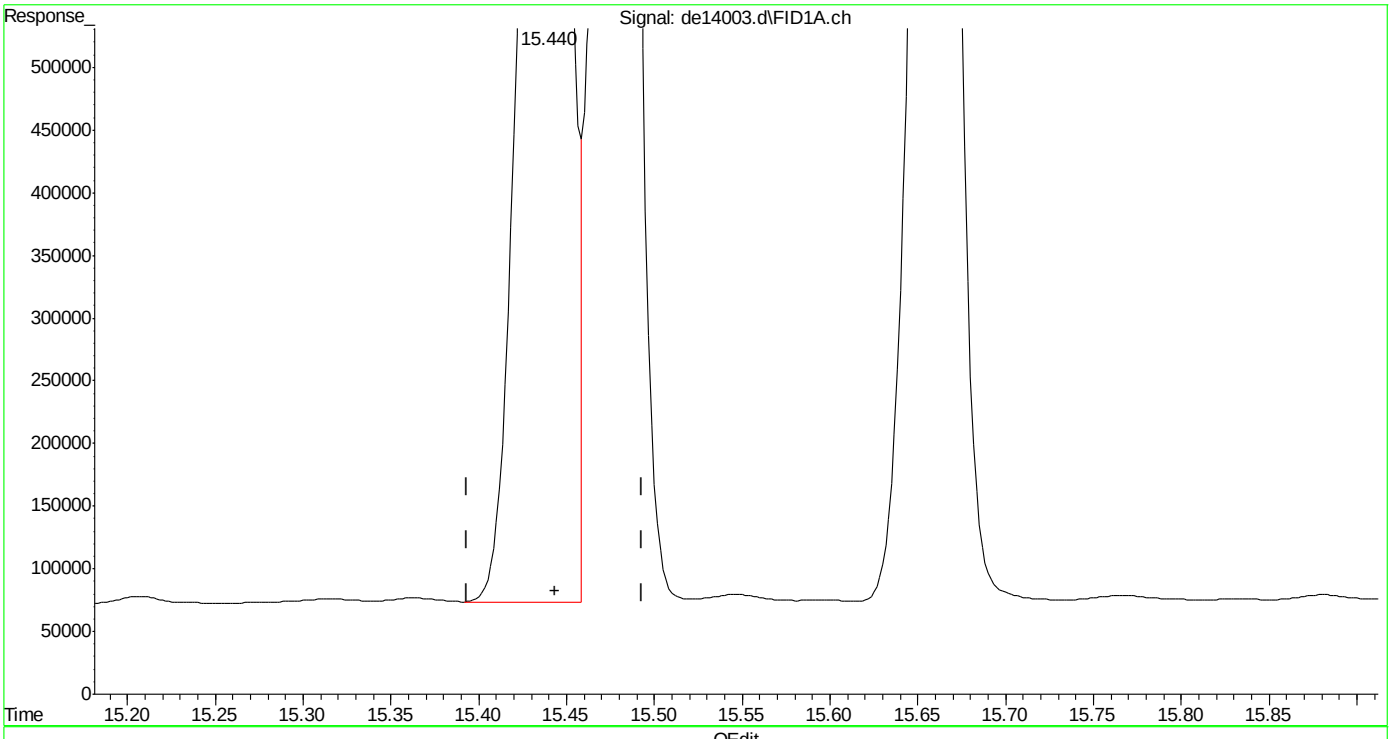
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.440min 24.751 µg/ml m
response 2342886

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:23 2016

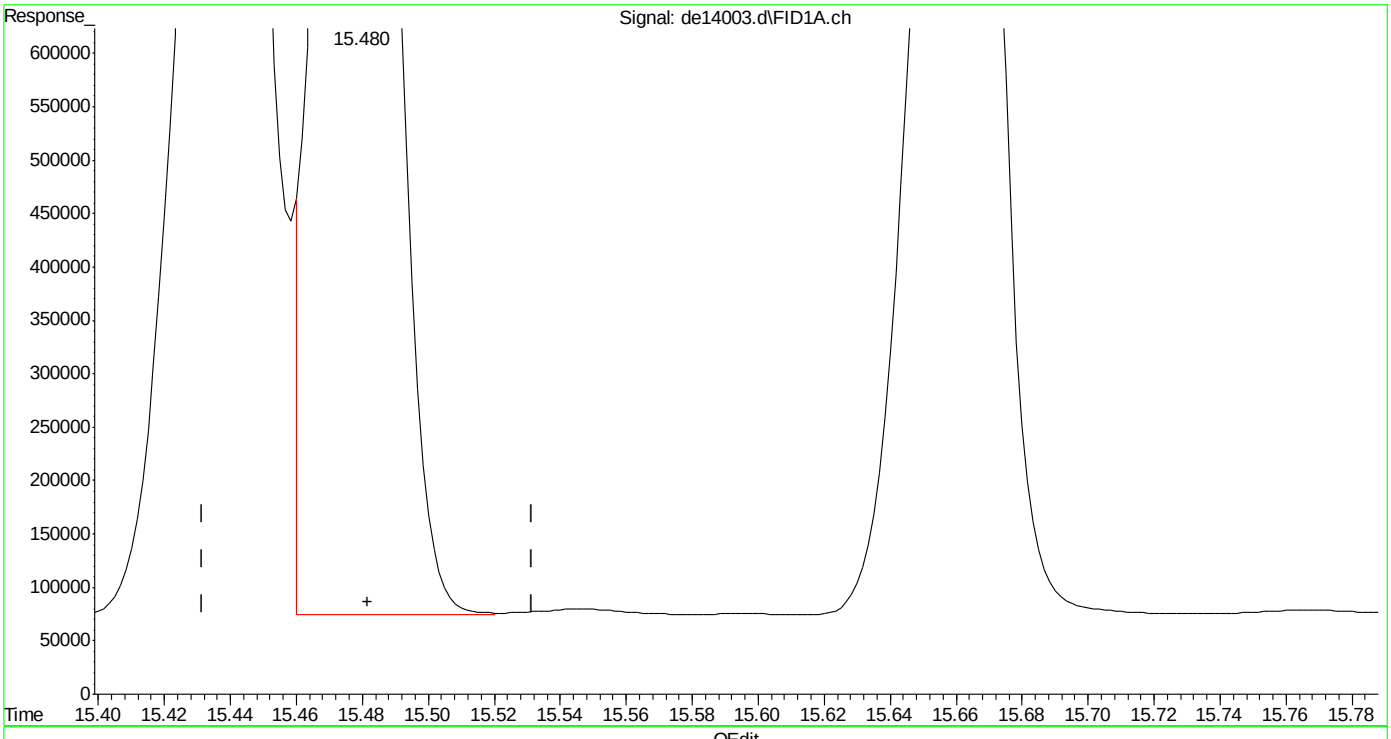
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.480min 24.370 µg/ml
response 2227382

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:27 2016 Page: 1

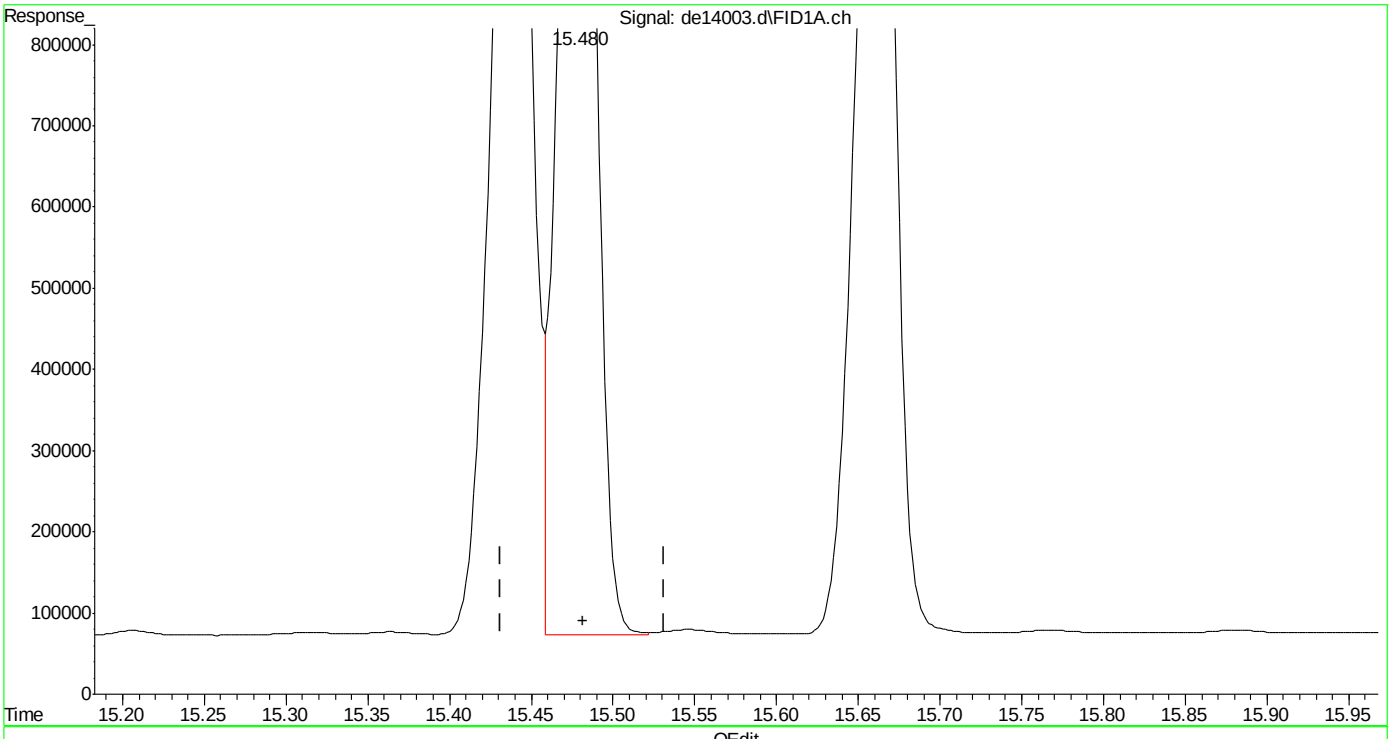
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14003.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:19 pm
Operator : thomasa
Sample : op47292-bs
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:12:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.480min 24.844 µg/ml m
response 2270697

(+) = Expected Retention Time
EPH160502W.M Mon May 02 14:13:38 2016

SGS ACCUTEST MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:18

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.685	1585196	17.187 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 85.94%#		
6) s 2-bromonaphthalene	7.418	929896	14.818 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 74.09%#		
11) s o-terphenyl	9.957	1595304	15.575 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 77.88%#		
35) s 1-chlorooctadecane	11.227	828484	14.644 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 73.22%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36679982	373.506 µg/mlm
2) naphthalene	5.235	1321042	12.808 µg/ml
3) 2-methylnaphthalene	6.135	1408728	13.746 µg/ml
5) acenaphthylene	7.248	1531205	15.220 µg/ml
7) acenaphthene	7.490	1762745	17.052 µg/ml
8) fluorene	8.138	1728091	17.014 µg/ml
9) phenanthrene	9.322	1839887	18.080 µg/ml
10) anthracene	9.380	2161900	22.286 µg/ml
12) fluoranthene	10.830	2221081	22.224 µg/ml
13) pyrene	11.087	2236727	22.045 µg/ml
14) benzo(a)anthracene	12.653	2291185	23.700 µg/ml
15) chrysene	12.703	2308734	23.718 µg/ml
16) benzo(B)fluoranthene	13.957	2340921	23.645 µg/mlm
17) benzo(k)fluoranthene	13.983	2276150	24.086 µg/mlm
18) benzo(a)pyrene	14.292	2280385	24.670 µg/ml
19) indeno(1,2,3-cd)pyrene	15.435	2309964	24.403 µg/mlm
20) dibenzo(ah)anthracene	15.477	2245927	24.573 µg/mlm
21) benzo(ghi)perylene	15.658	2285143	24.805 µg/ml
25) h c-9	2.648	645108	8.733 µg/mlm
26) h c-10	3.815	814010	11.019 µg/ml
27) naphthalene #2	5.490	6881	0.086 µg/ml
28) c-12	5.665	979751	13.263 µg/ml
29) 2-methylnaphthalene #2	6.383	6359	0.079 µg/ml
30) c-14	7.183	1114147	15.082 µg/ml
31) c-16	8.512	1228184	16.626 µg/ml
32) c-18	9.707	1406072	19.034 µg/ml
33) c-19	10.262	1472118	22.036 µg/ml
34) c-20	10.792	1514707	22.673 µg/ml
36) c-22	11.788	1577933	23.619 µg/ml
37) c-24	12.707	1574019	23.561 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	1548911	23.185 µg/ml
39)	c-28	14.350	1536904	23.005 µg/ml
40) h	c-30	15.098	1520391	22.758 µg/ml
41) h	c-36	17.008	1196847	17.915 µg/mlm

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

9.3.2

9

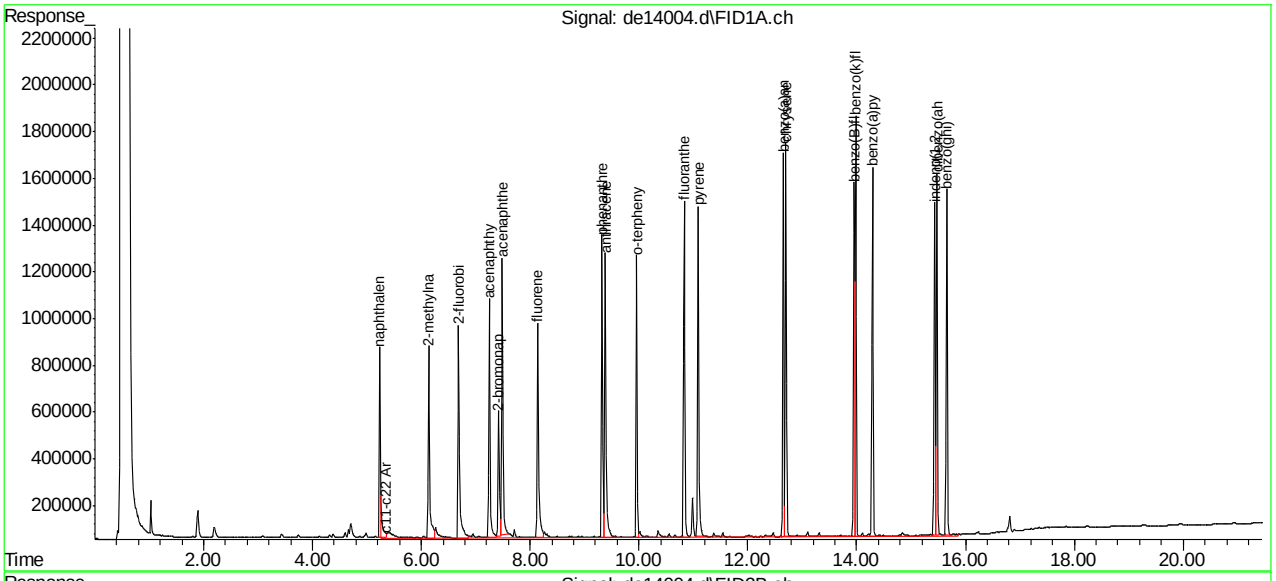
SGS ACCUTEST MC45580

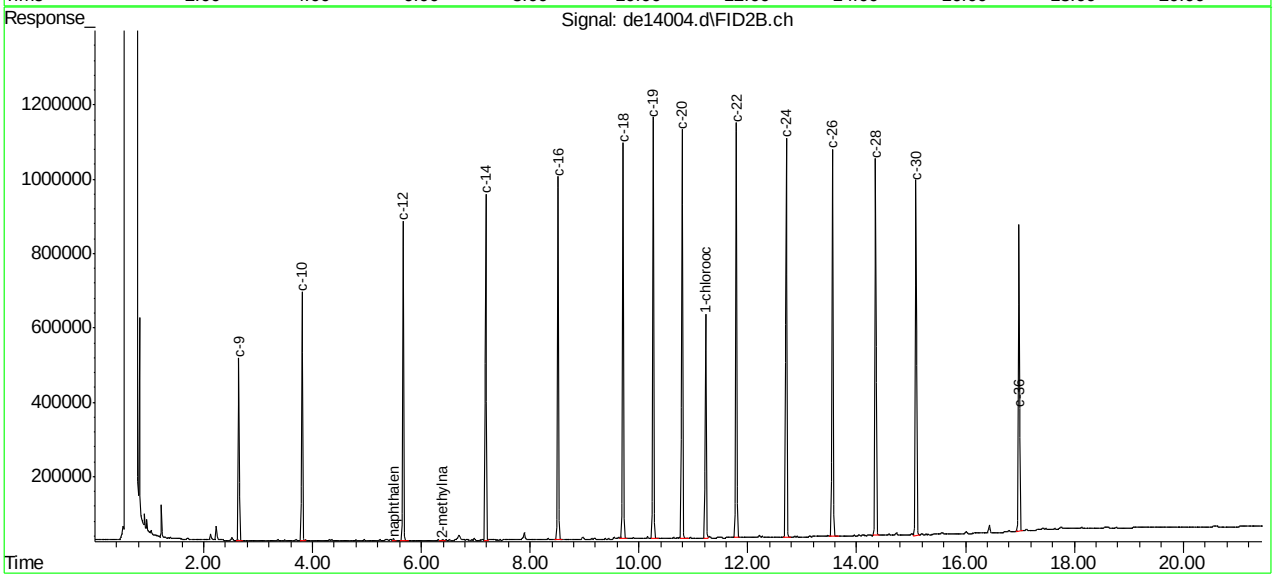
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

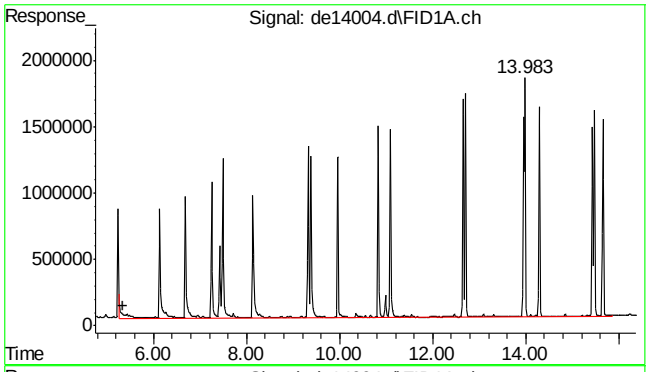
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:16:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



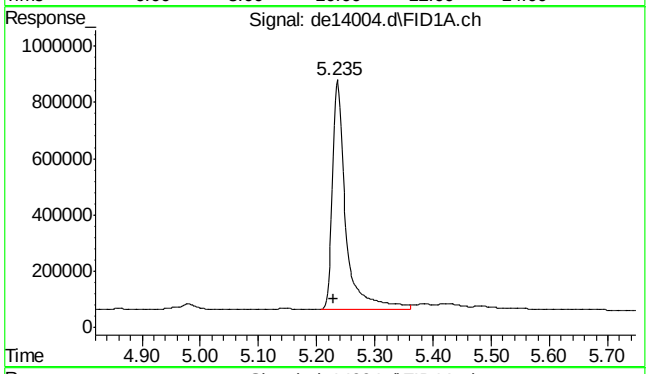


SGS ACCUTEST MC45580



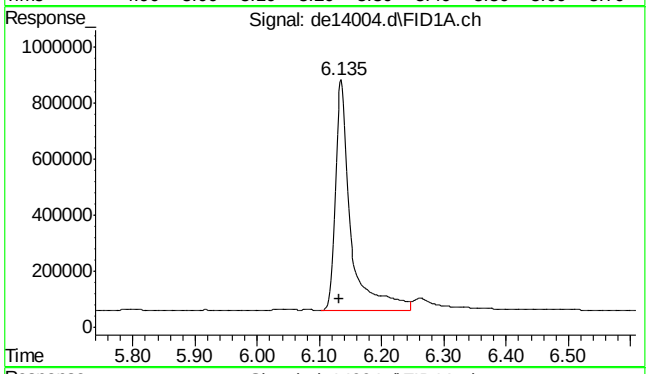
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36679982
Conc: 373.51 µg/ml m



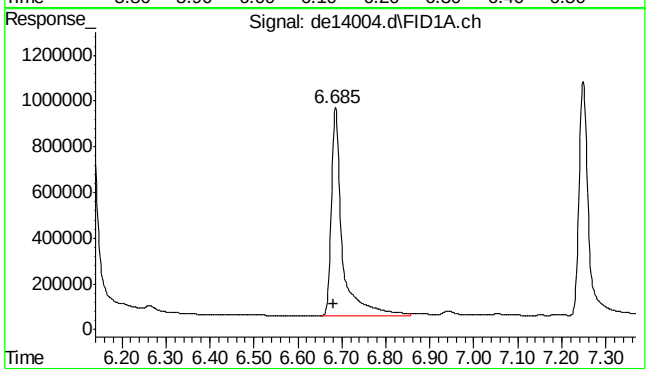
#2 naphthalene

R.T.: 5.235 min
Delta R.T.: 0.005 min
Response: 1321042
Conc: 12.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.135 min
Delta R.T.: 0.003 min
Response: 1408728
Conc: 13.75 µg/ml



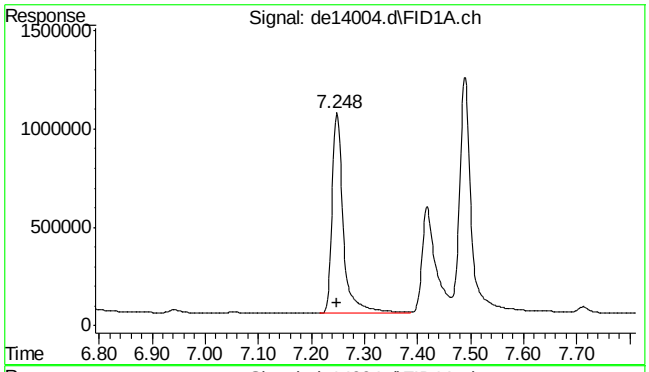
#4 2-fluorobiphenyl

R.T.: 6.685 min
Delta R.T.: 0.003 min
Response: 1585196
Conc: 17.19 µg/ml

9.3.2

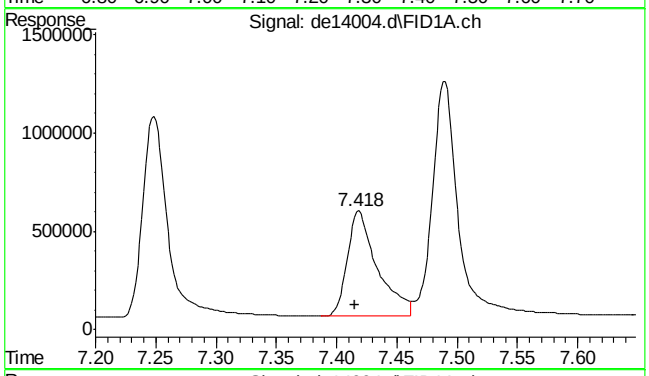
9

SGS ACCUTEST MC45580



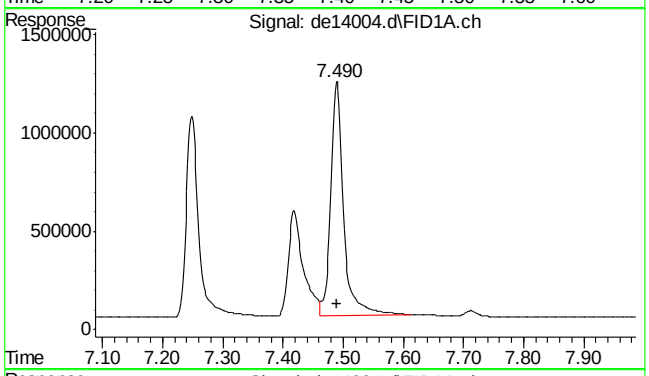
#5 acenaphthylene

R.T.: 7.248 min
Delta R.T.: 0.000 min
Response: 1531205
Conc: 15.22 µg/ml



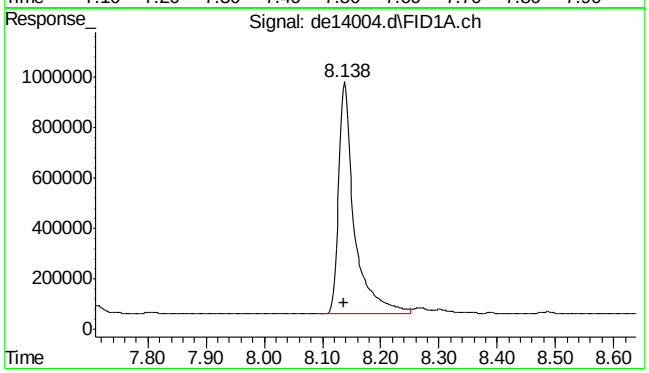
#6 2-bromonaphthalene

R.T.: 7.418 min
Delta R.T.: 0.003 min
Response: 929896
Conc: 14.82 µg/ml



#7 acenaphthene

R.T.: 7.490 min
Delta R.T.: 0.000 min
Response: 1762745
Conc: 17.05 µg/ml



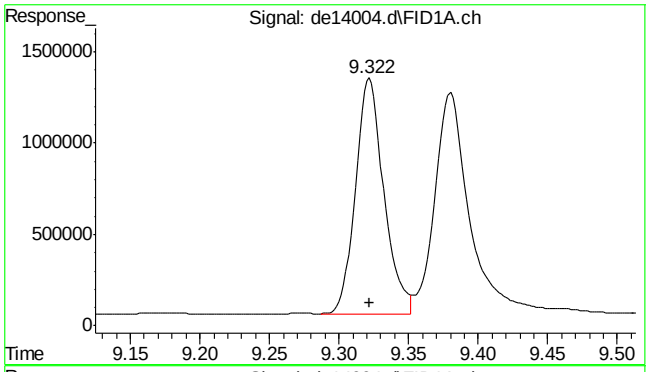
#8 fluorene

R.T.: 8.138 min
Delta R.T.: 0.002 min
Response: 1728091
Conc: 17.01 µg/ml

9.3.2

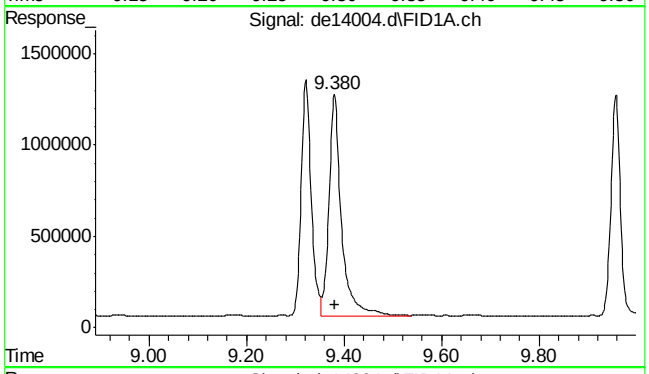
9

SGS ACCUTEST MC45580



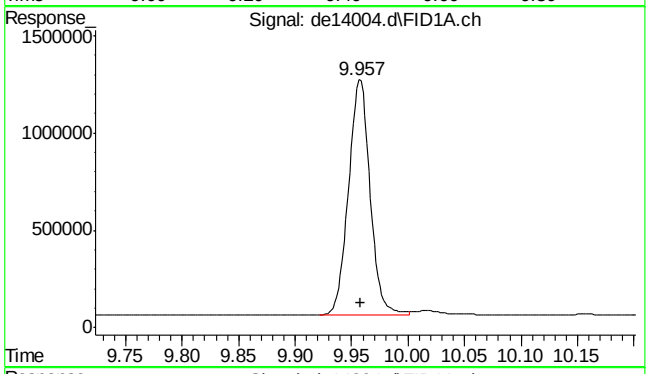
#9 phenanthrene

R.T.: 9.322 min
Delta R.T.: 0.000 min
Response: 1839887
Conc: 18.08 µg/ml



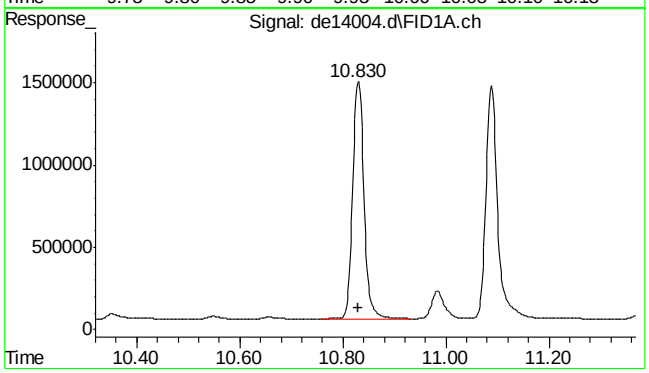
#10 anthracene

R.T.: 9.380 min
Delta R.T.: 0.000 min
Response: 2161900
Conc: 22.29 µg/ml



#11 o-terphenyl

R.T.: 9.957 min
Delta R.T.: -0.002 min
Response: 1595304
Conc: 15.58 µg/ml



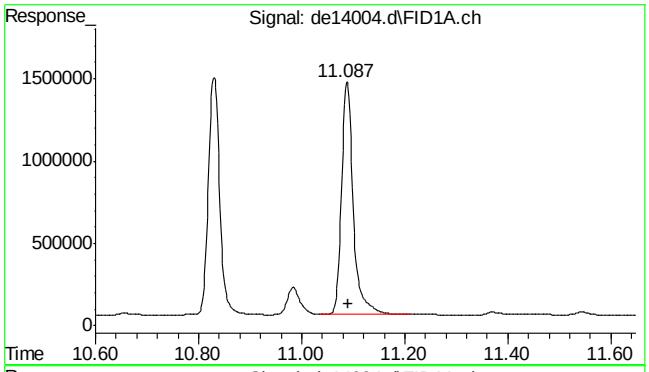
#12 fluoranthene

R.T.: 10.830 min
Delta R.T.: 0.000 min
Response: 2221081
Conc: 22.22 µg/ml

9.3.2

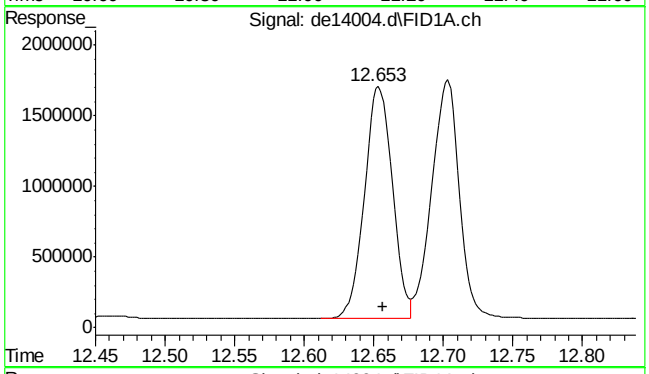
9

SGS ACCUTEST MC45580



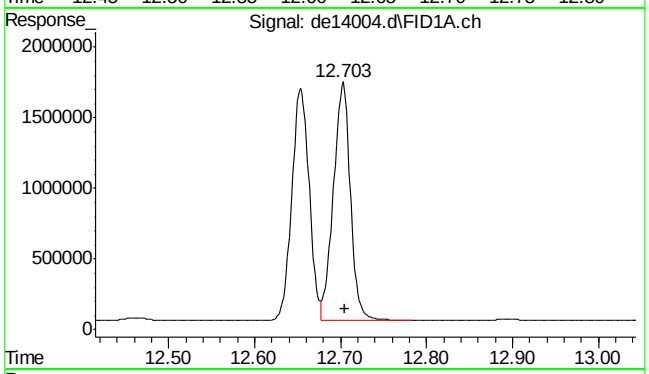
#13 pyrene

R.T.: 11.087 min
Delta R.T.: -0.003 min
Response: 2236727
Conc: 22.04 µg/ml



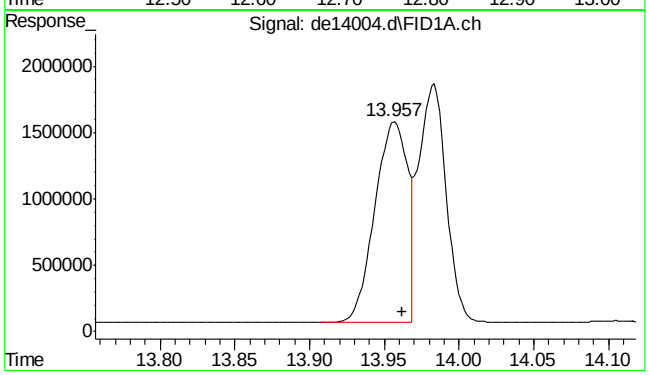
#14 benzo(a)anthracene

R.T.: 12.653 min
Delta R.T.: -0.003 min
Response: 2291185
Conc: 23.70 µg/ml



#15 chrysene

R.T.: 12.703 min
Delta R.T.: -0.002 min
Response: 2308734
Conc: 23.72 µg/ml



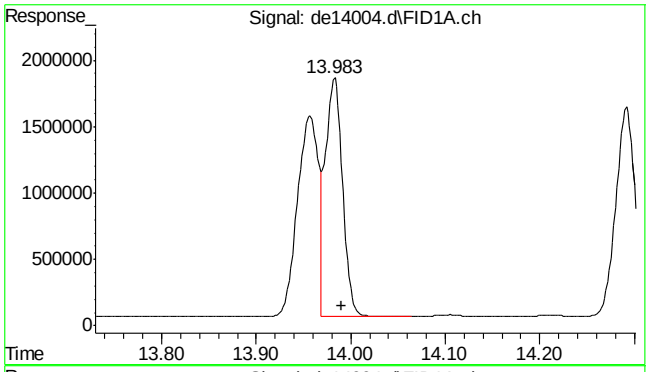
#16 benzo(B)fluoranthene

R.T.: 13.957 min
Delta R.T.: -0.005 min
Response: 2340921
Conc: 23.65 µg/ml m

9.3.2

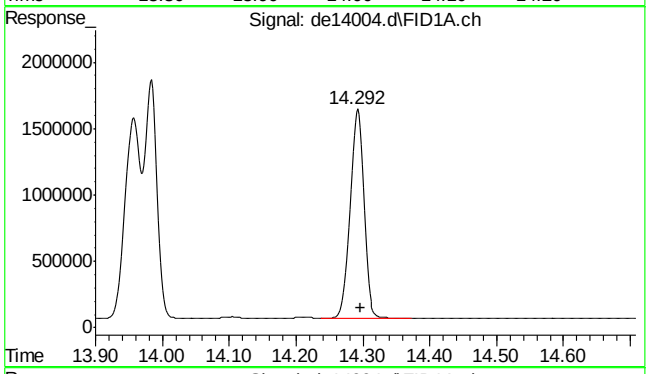
9

SGS ACCUTEST MC45580



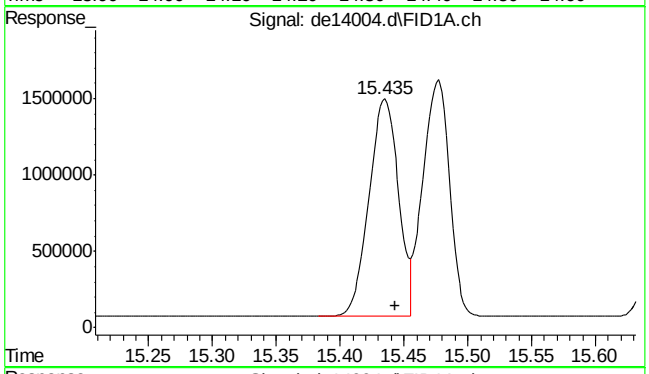
#17 benzo(k)fluoranthene

R.T.: 13.983 min
Delta R.T.: -0.007 min
Response: 2276150
Conc: 24.09 µg/ml m



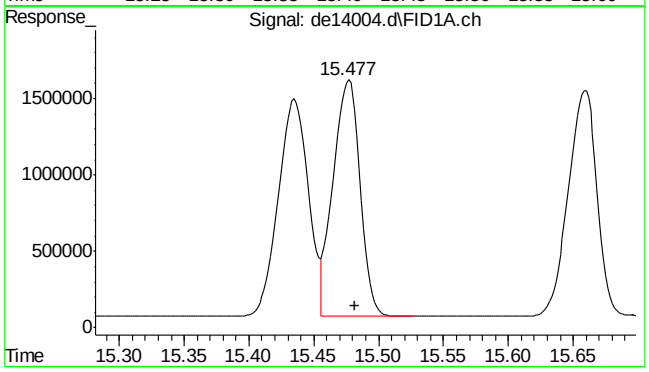
#18 benzo(a)pyrene

R.T.: 14.292 min
Delta R.T.: -0.005 min
Response: 2280385
Conc: 24.67 µg/ml



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

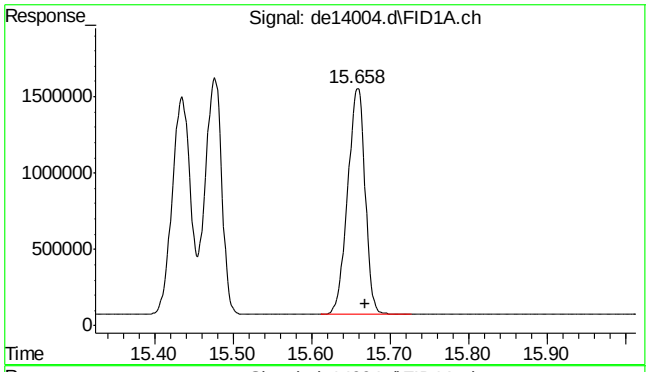
R.T.: 15.435 min
Delta R.T.: -0.008 min
Response: 2309964
Conc: 24.40 µg/ml m



#20 dibenzo(ah)anthracene

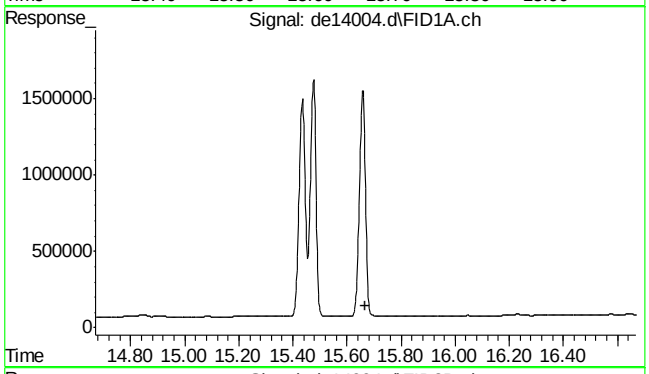
R.T.: 15.477 min
Delta R.T.: -0.005 min
Response: 2245927
Conc: 24.57 µg/ml m

SGS ACCUTEST MC45580



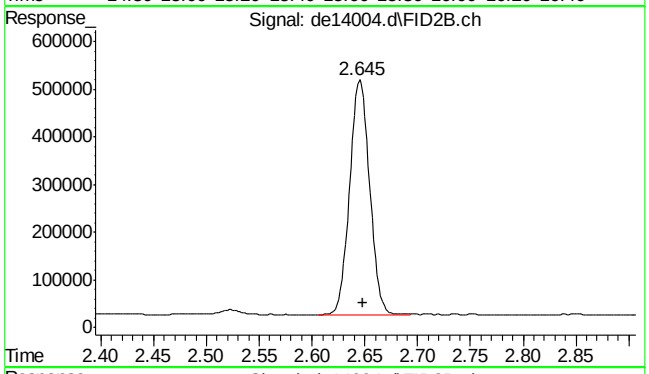
#21 benzo(ghi)perylene

R.T.: 15.658 min
Delta R.T.: -0.010 min
Response: 2285143
Conc: 24.81 µg/ml



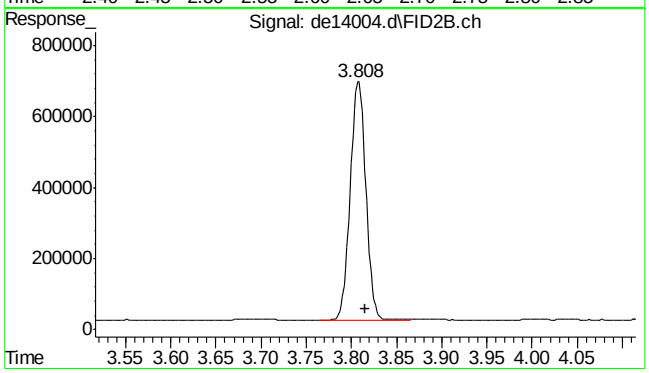
#22 bht

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



#25 c-9

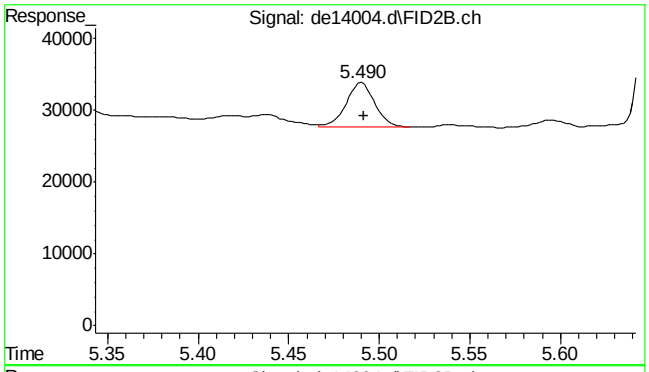
R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 645108
Conc: 8.73 µg/ml m



#26 c-10

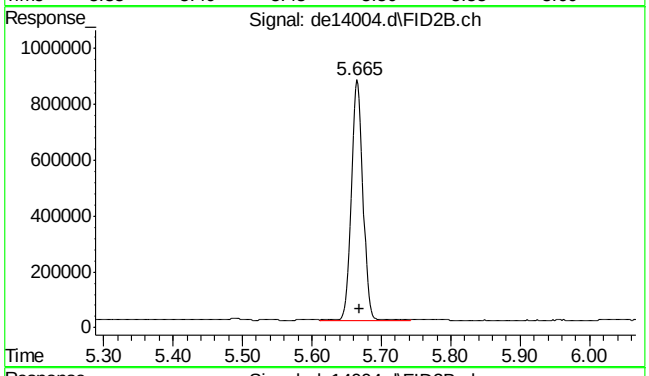
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 814010
Conc: 11.02 µg/ml

SGS ACCUTEST MC45580



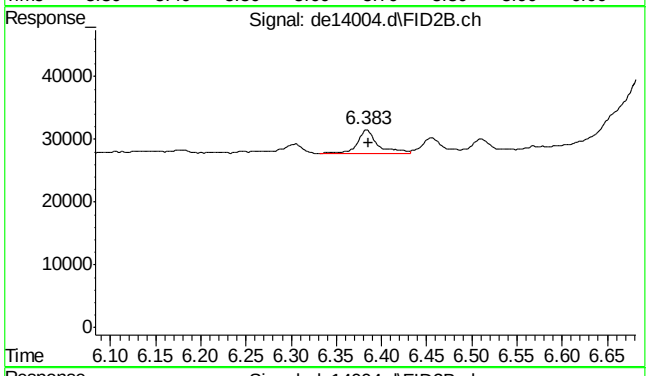
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: -0.002 min
Response: 6881
Conc: 0.09 µg/ml



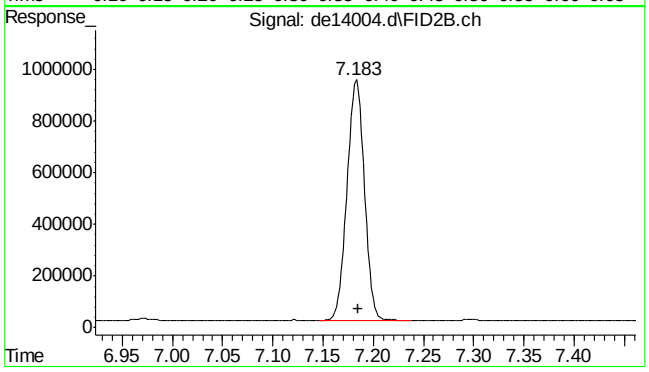
#28 c-12

R.T.: 5.665 min
Delta R.T.: -0.003 min
Response: 979751
Conc: 13.26 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.383 min
Delta R.T.: -0.002 min
Response: 6359
Conc: 0.08 µg/ml



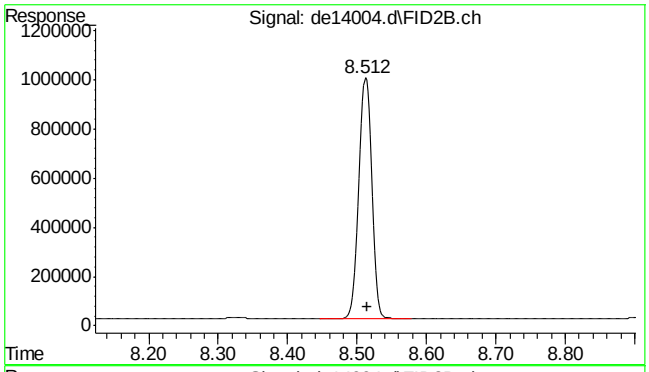
#30 c-14

R.T.: 7.183 min
Delta R.T.: -0.002 min
Response: 1114147
Conc: 15.08 µg/ml

9.3.2

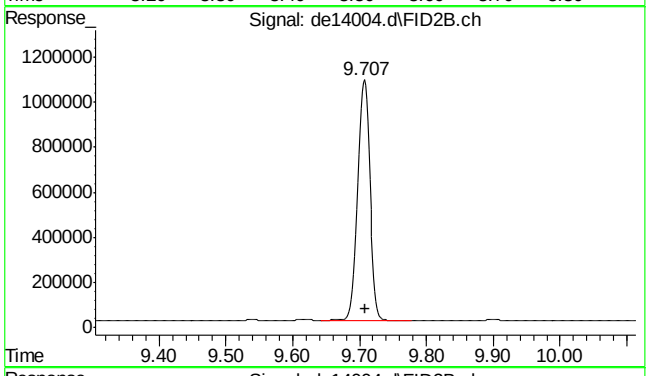
9

SGS ACCUTEST MC45580



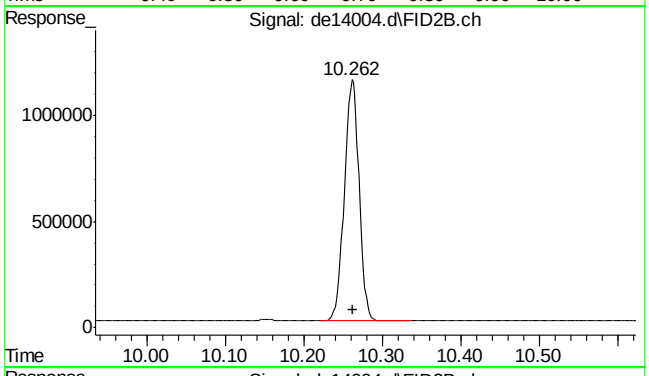
#31 c-16

R.T.: 8.512 min
Delta R.T.: -0.003 min
Response: 1228184
Conc: 16.63 µg/ml



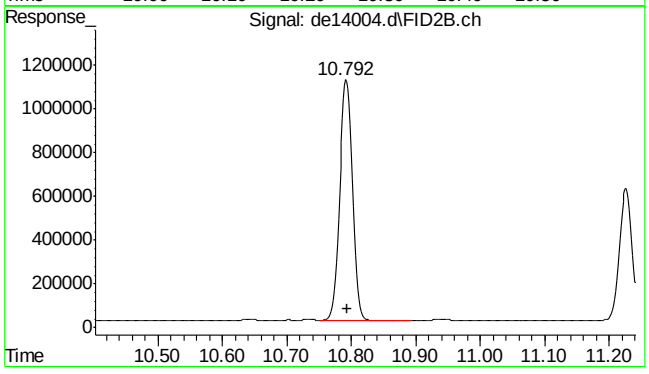
#32 c-18

R.T.: 9.707 min
Delta R.T.: -0.002 min
Response: 1406072
Conc: 19.03 µg/ml



#33 c-19

R.T.: 10.262 min
Delta R.T.: -0.002 min
Response: 1472118
Conc: 22.04 µg/ml



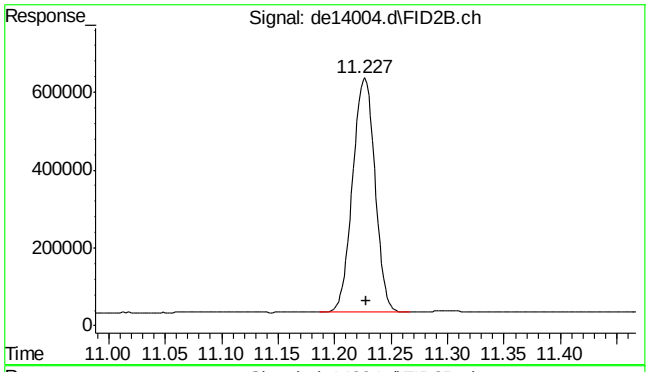
#34 c-20

R.T.: 10.792 min
Delta R.T.: -0.002 min
Response: 1514707
Conc: 22.67 µg/ml

9.3.2

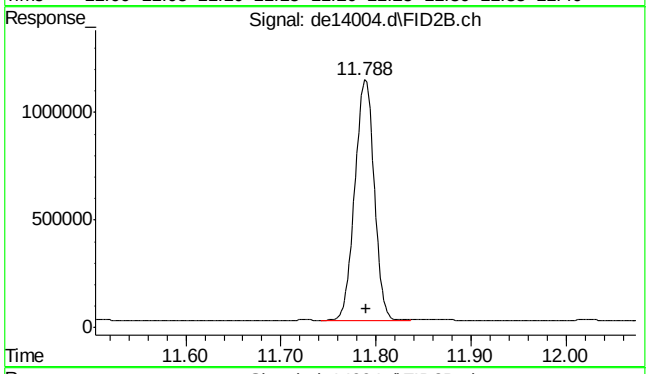
9

SGS ACCUTEST MC45580



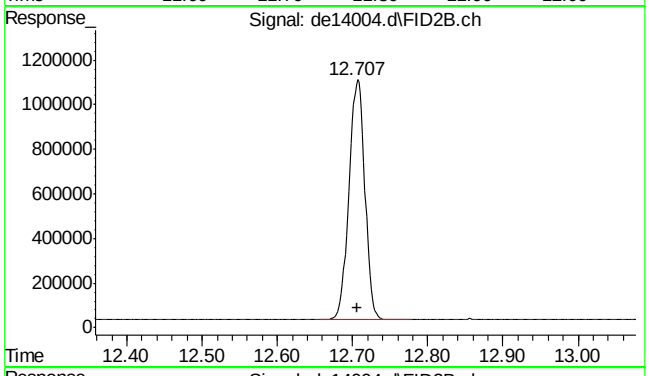
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: -0.002 min
Response: 828484
Conc: 14.64 µg/ml



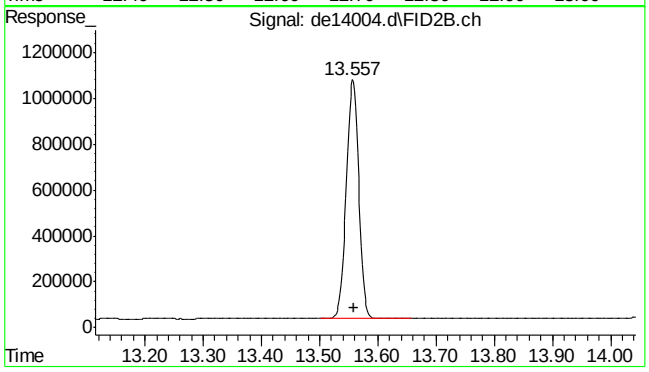
#36 c-22

R.T.: 11.788 min
Delta R.T.: -0.002 min
Response: 1577933
Conc: 23.62 µg/ml



#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 1574019
Conc: 23.56 µg/ml



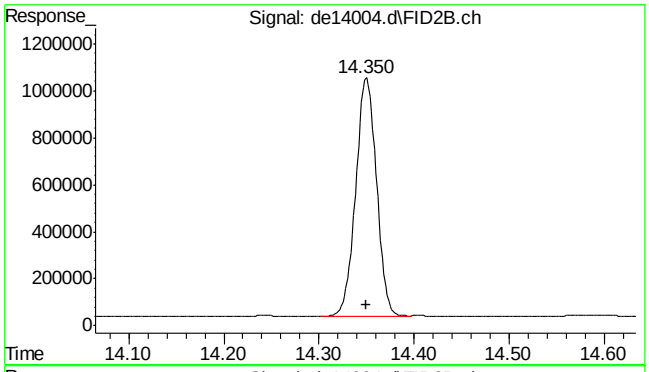
#38 c-26

R.T.: 13.557 min
Delta R.T.: -0.002 min
Response: 1548911
Conc: 23.19 µg/ml

9.3.2

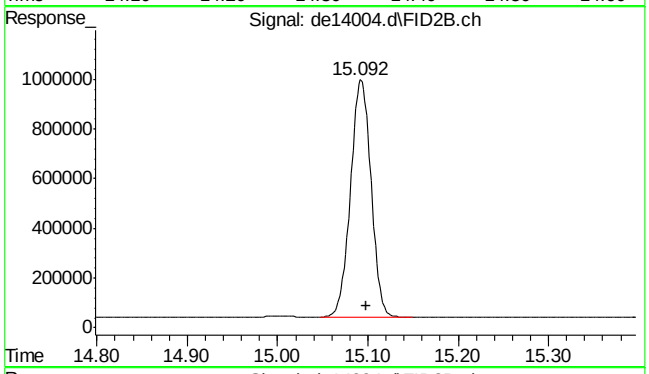
9

SGS ACCUTEST MC45580



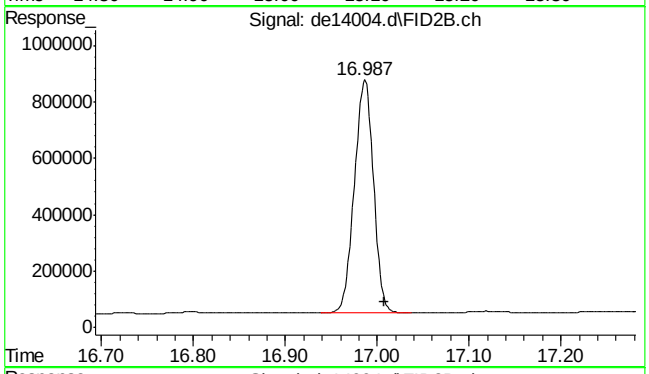
#39 c-28

R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 1536904
Conc: 23.01 µg/ml



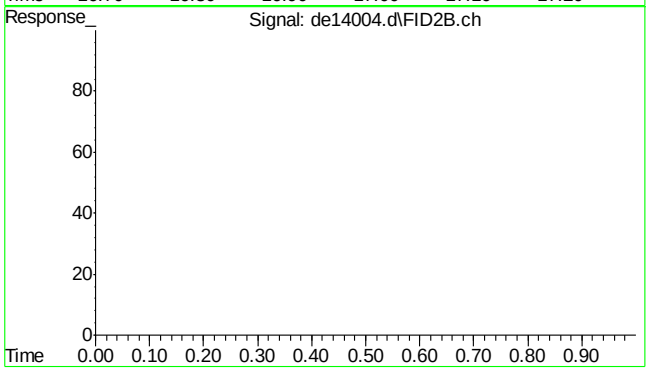
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 1520391
Conc: 22.76 µg/ml



#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 1196847
Conc: 17.92 µg/ml m



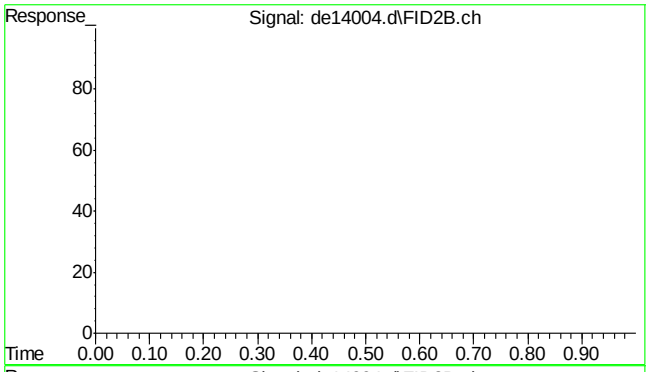
#42 bht

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

9.3.2

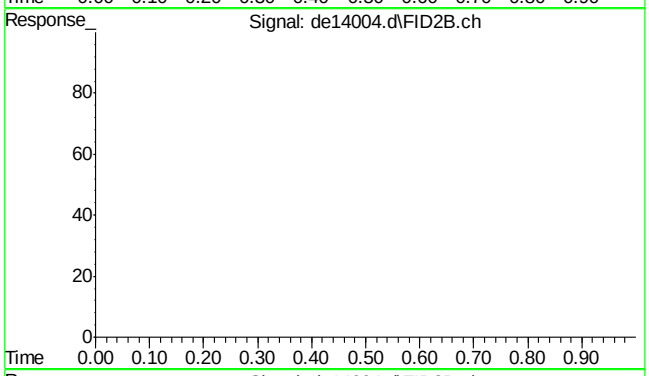
9

SGS ACCUTEST MC45580



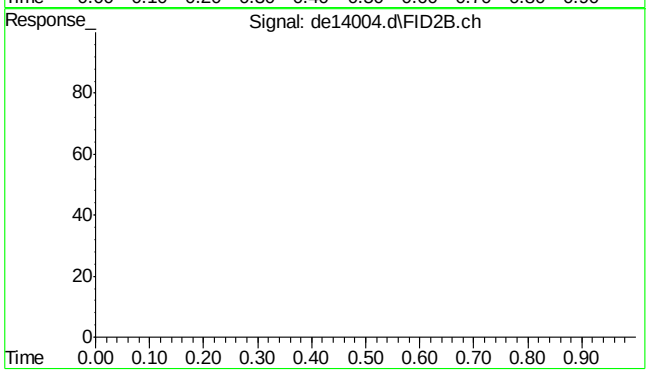
#43 bht

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.

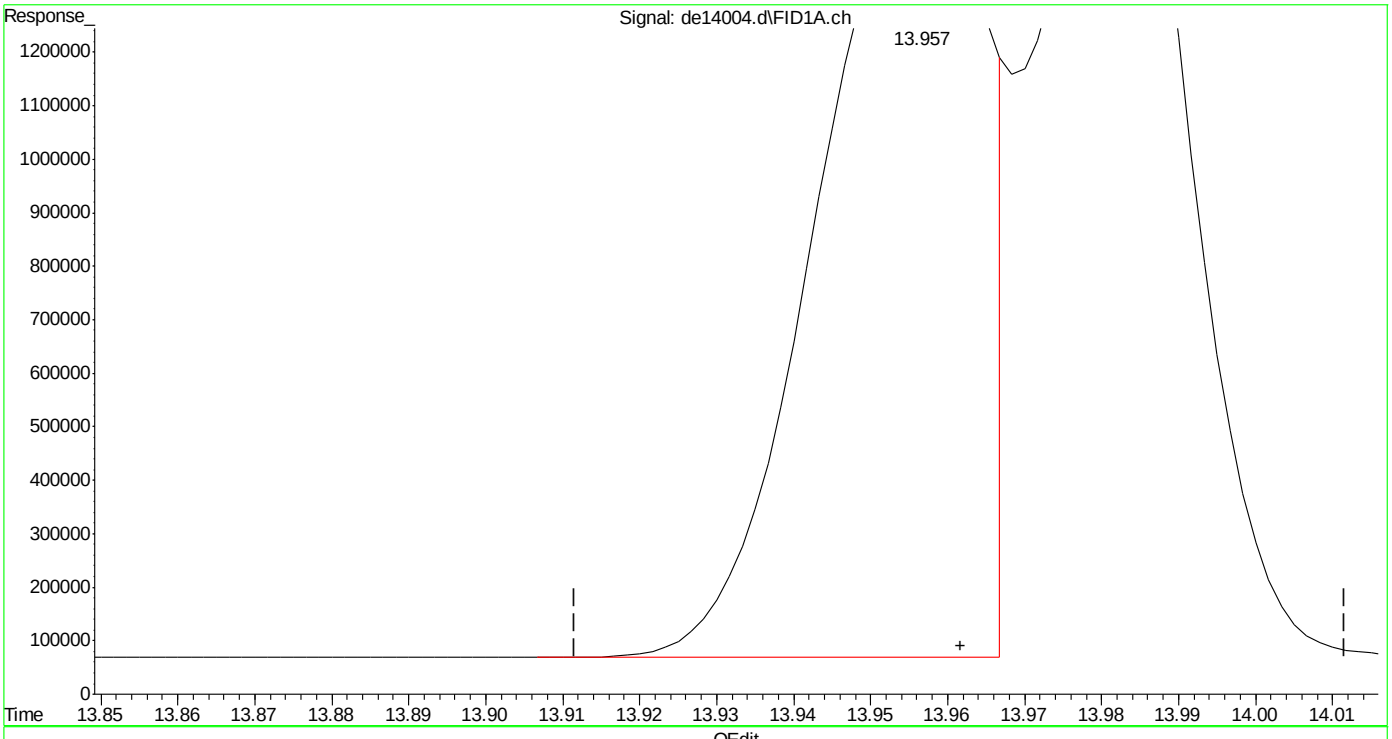
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.957min 22.522 µg/ml
response 2229778

(+) = Expected Retention Time

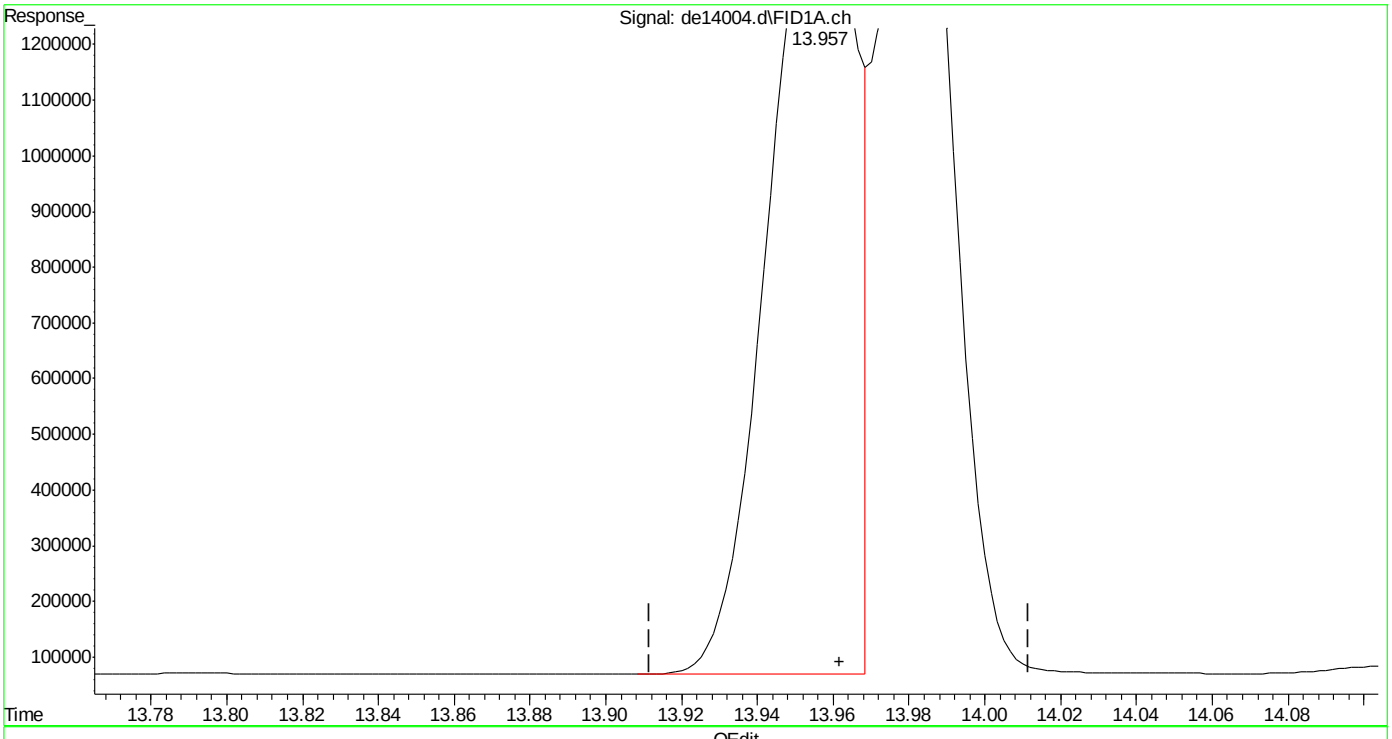
EPH160502W.M Mon May 02 14:15:01 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.957min 23.645 µg/ml m
response 2340921

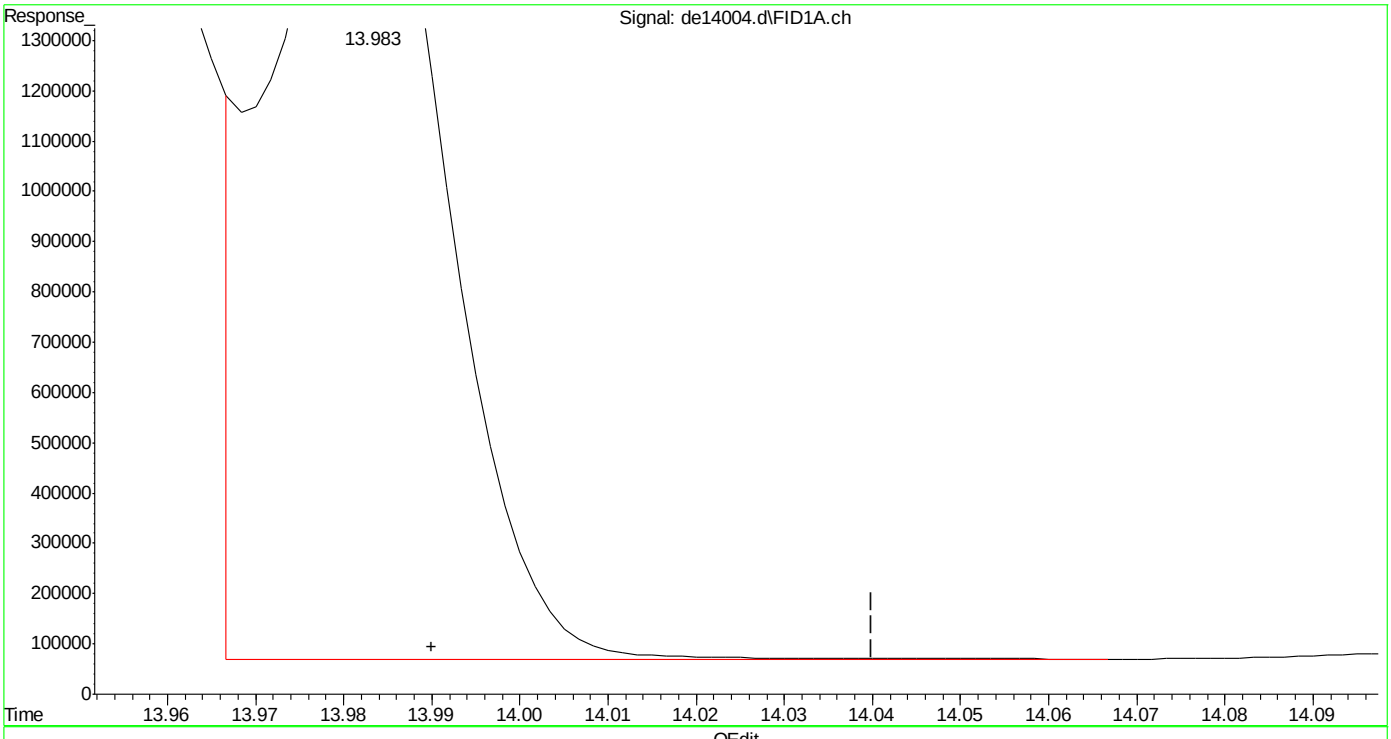
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.983min 25.226 µg/ml
response 2383887

(+) = Expected Retention Time

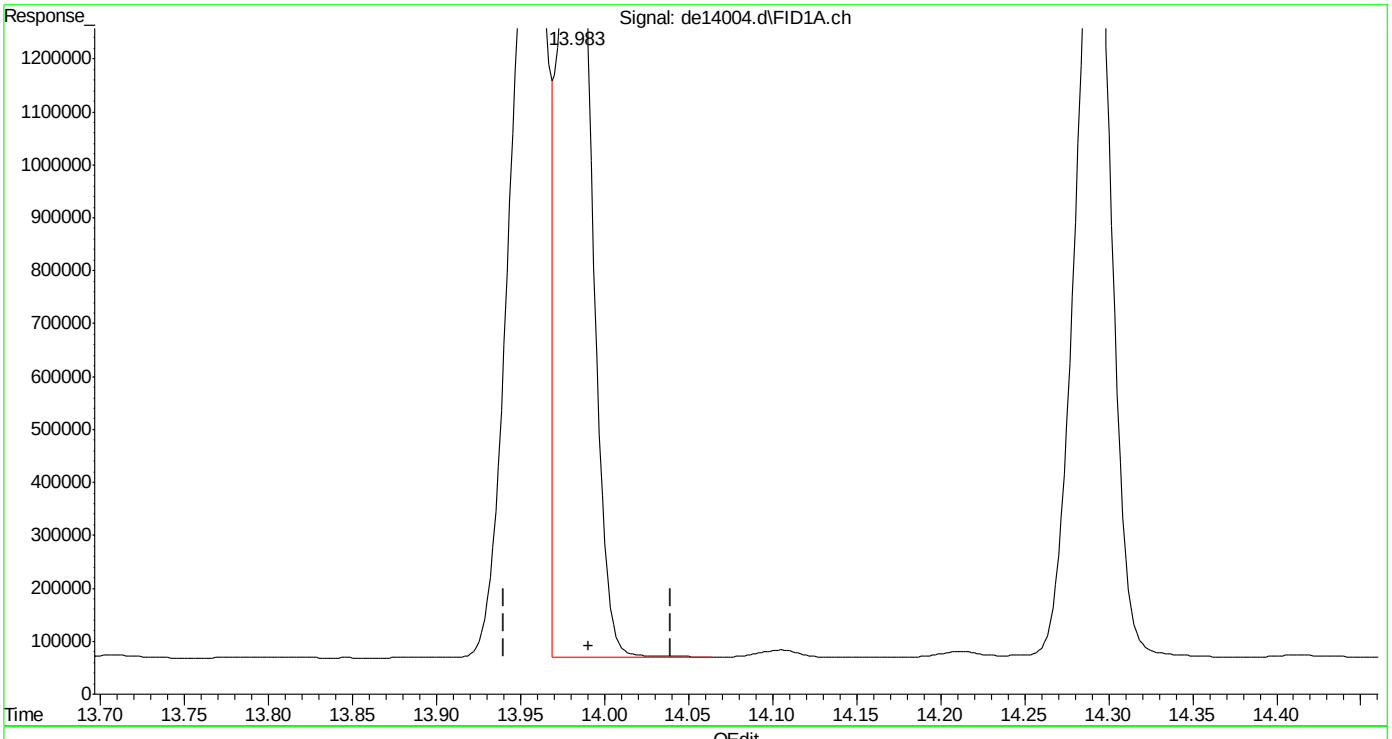
EPH160502W.M Mon May 02 14:15:17 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.983min 24.086 µg/ml m
response 2276150

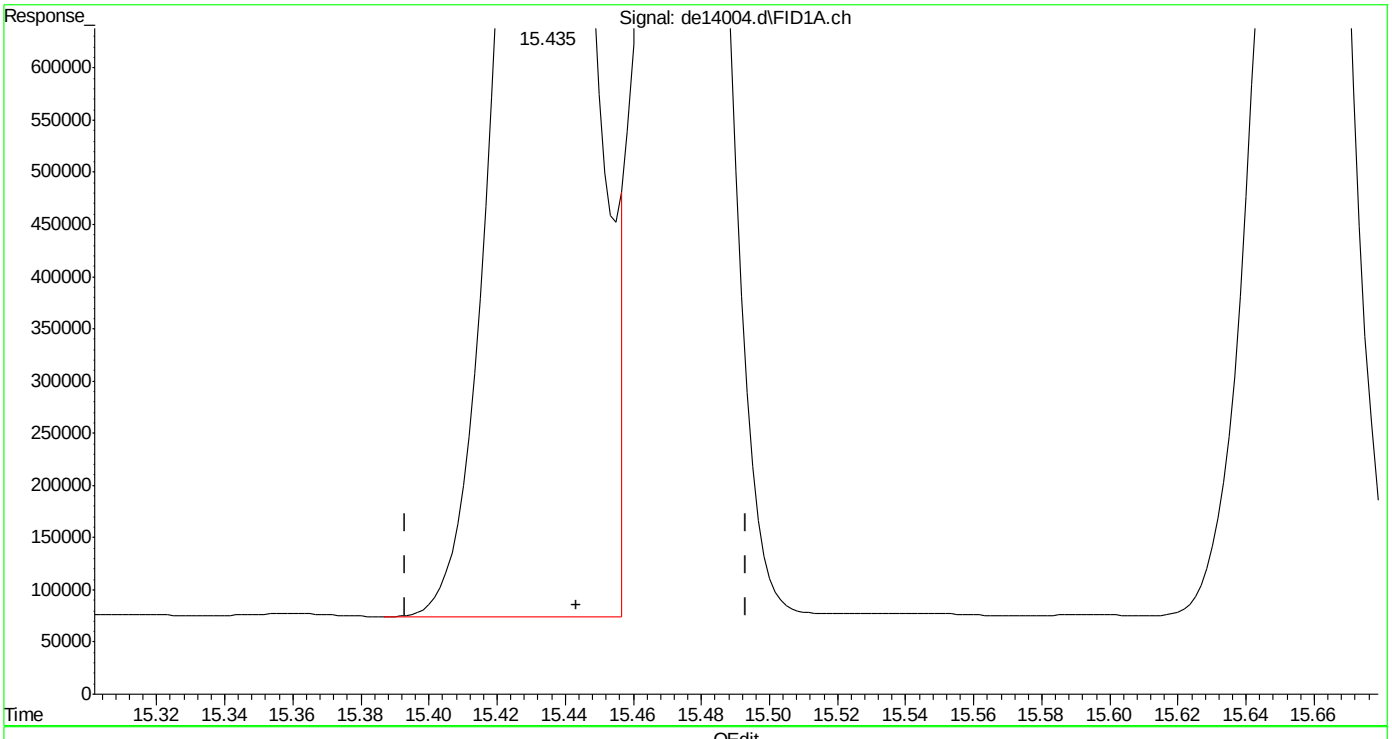
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.435min 24.818 µg/ml
response 2349263

(+) = Expected Retention Time

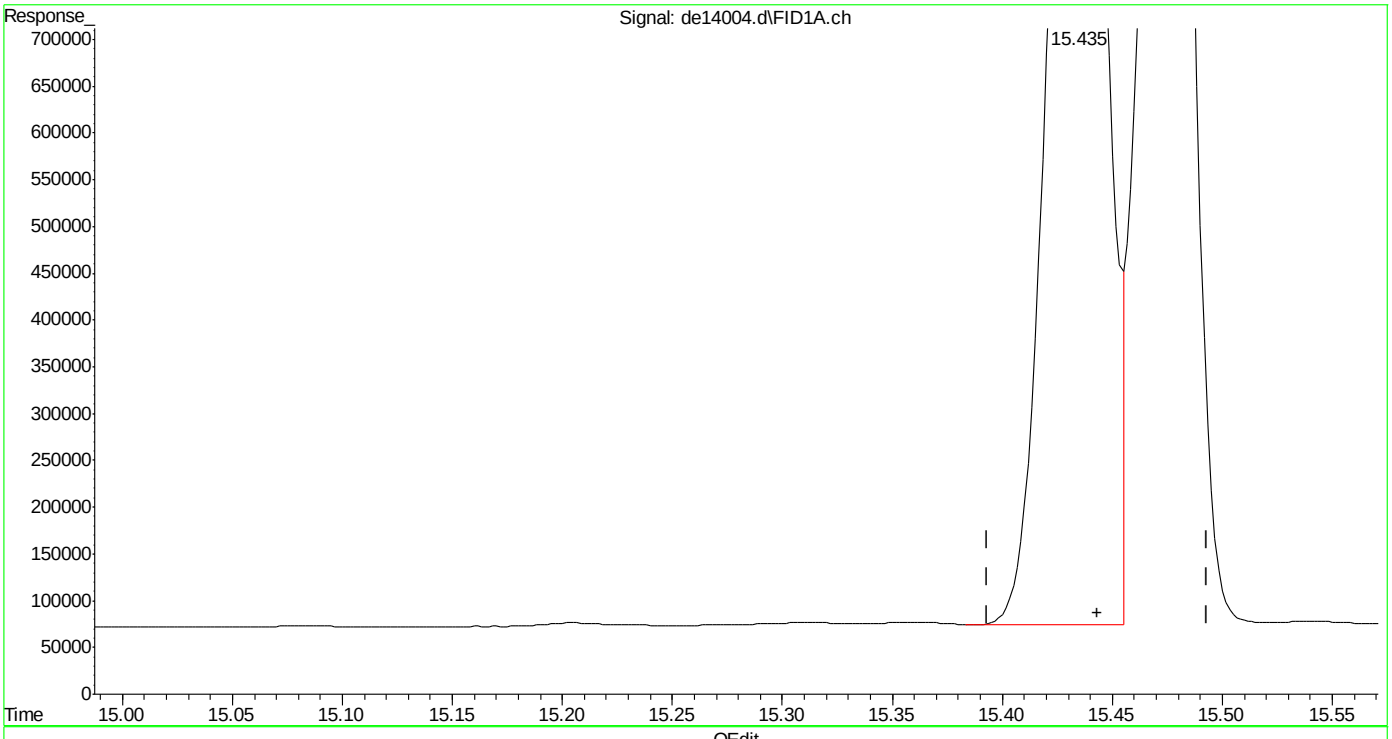
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016  12:46 pm
Operator  : thomasa
Sample    : op47292-bsd
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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

15.435min 24.403 µg/ml m

response 2309964

(+) = Expected Retention Time

EPH160502W.M Mon May 02 14:15:57 2016

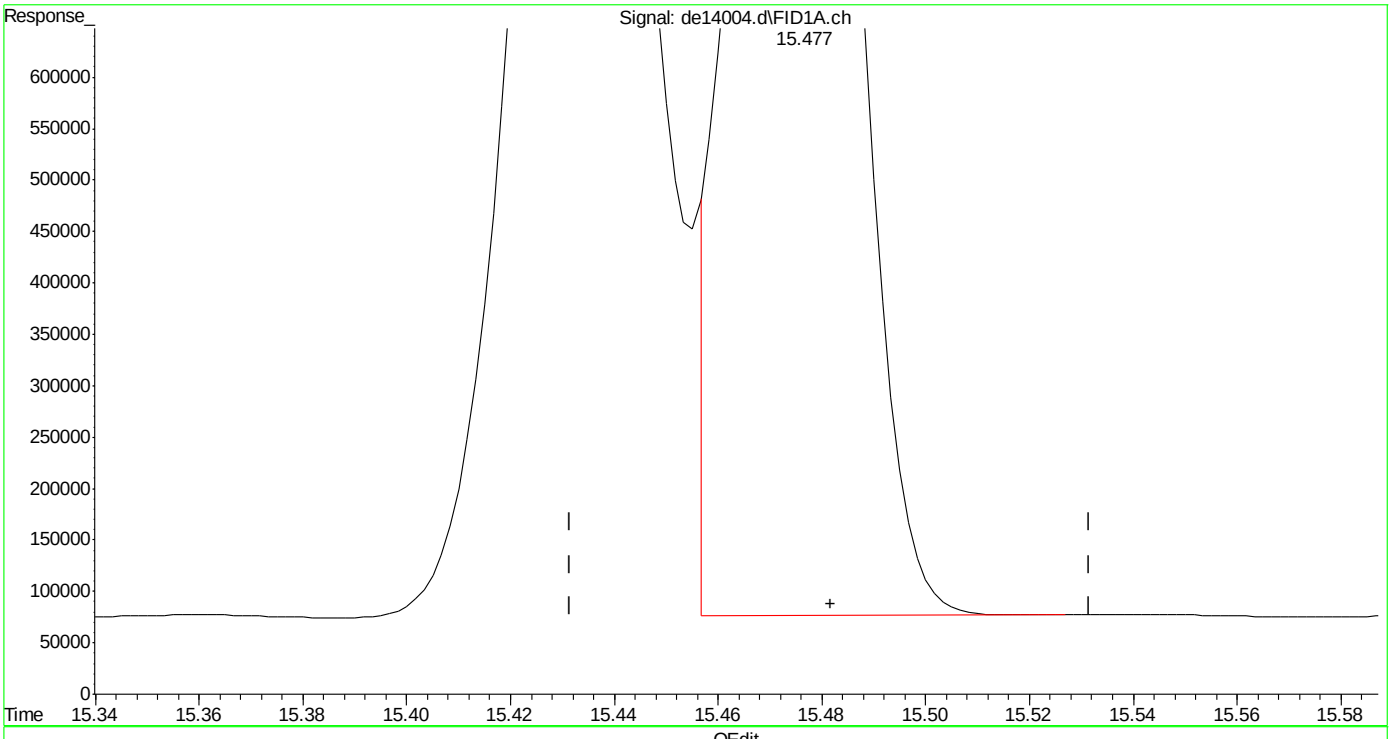
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    :  2 May 2016  12:46 pm
Operator  : thomasa
Sample    : op47292-bsd
Misc      : op47292,gde783,1000,,,2,,w
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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

15.477min 24.027 µg/ml

response 2196045

(+) = Expected Retention Time

EPH160502W.M Mon May 02 14:16:03 2016

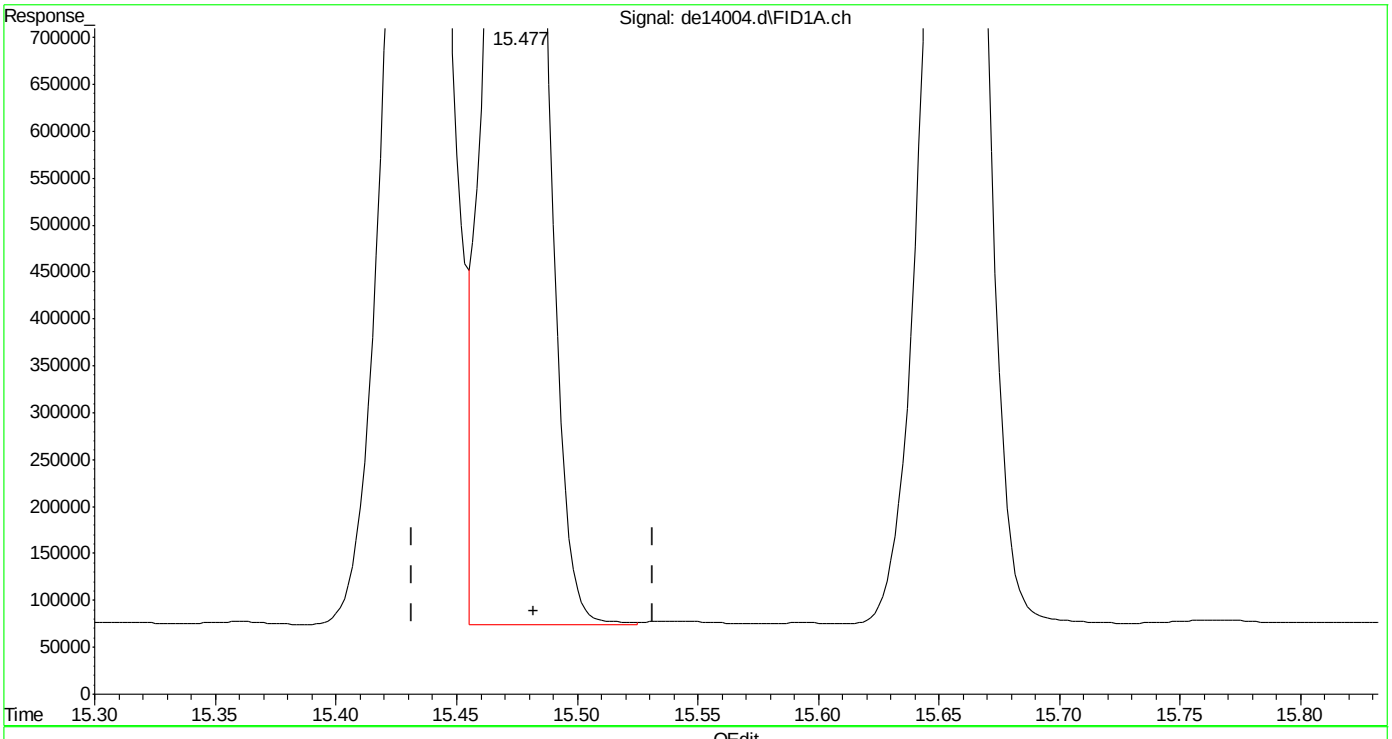
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14004.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 12:46 pm
Operator : thomasa
Sample : op47292-bsd
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 14:14:38 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.477min 24.573 µg/ml m
response 2245927

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14009.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:05 pm
Operator : thomasa
Sample : op47292-ms
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:52:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.690	1765658	19.144 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 95.72%#	
6) s 2-bromonaphthalene	7.423	1043453	16.627 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.13%#	
11) s o-terphenyl	9.960	1706927	16.665 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 83.32%#	
35) s 1-chlorooctadecane	11.225	739086	13.064 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 65.32%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	40364147	411.021 µg/mlm
2) naphthalene	5.240	1475365	14.304 µg/ml
3) 2-methylnaphthalene	6.138	1549032	15.115 µg/ml
5) acenaphthylene	7.253	1660630	16.507 µg/ml
7) acenaphthene	7.493	2033858	19.674 µg/ml
8) fluorene	8.142	1854099	18.255 µg/ml
9) phenanthrene	9.325	1989654	19.552 µg/ml
10) anthracene	9.383	2357811	24.305 µg/ml
12) fluoranthene	10.833	2388825	23.902 µg/ml
13) pyrene	11.092	2432627	23.976 µg/ml
14) benzo(a)anthracene	12.657	2467759	25.526 µg/ml
15) chrysene	12.705	2497616	25.658 µg/ml
16) benzo(B)fluoranthene	13.958	2395339	24.195 µg/ml
17) benzo(k)fluoranthene	13.987	2539142	26.869 µg/ml
18) benzo(a)pyrene	14.293	2438064	26.376 µg/ml
19) indeno(1,2,3-cd)pyrene	15.437	2403328	25.390 µg/ml
20) dibenzo(ah)anthracene	15.478	2438373	26.678 µg/ml
21) benzo(ghi)perylene	15.662	2428339	26.360 µg/ml
25) h c-9	2.648	7075299	95.778 µg/mlm
41) h c-36	17.008	13690971	204.935 µg/mlm

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

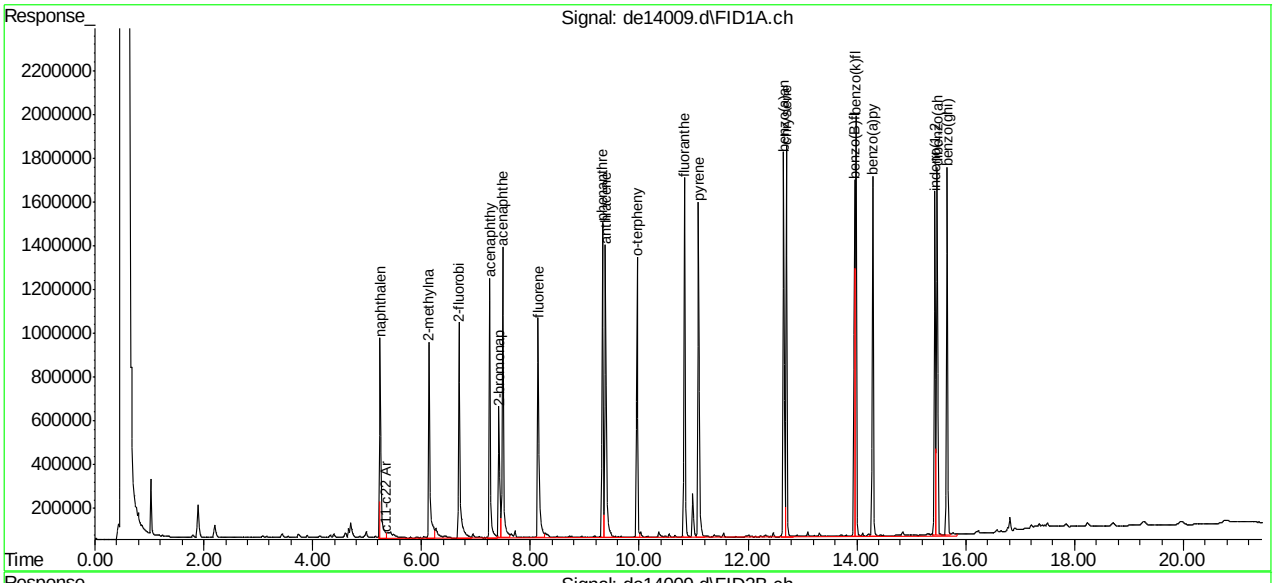
SGS ACCUTEST MC45580

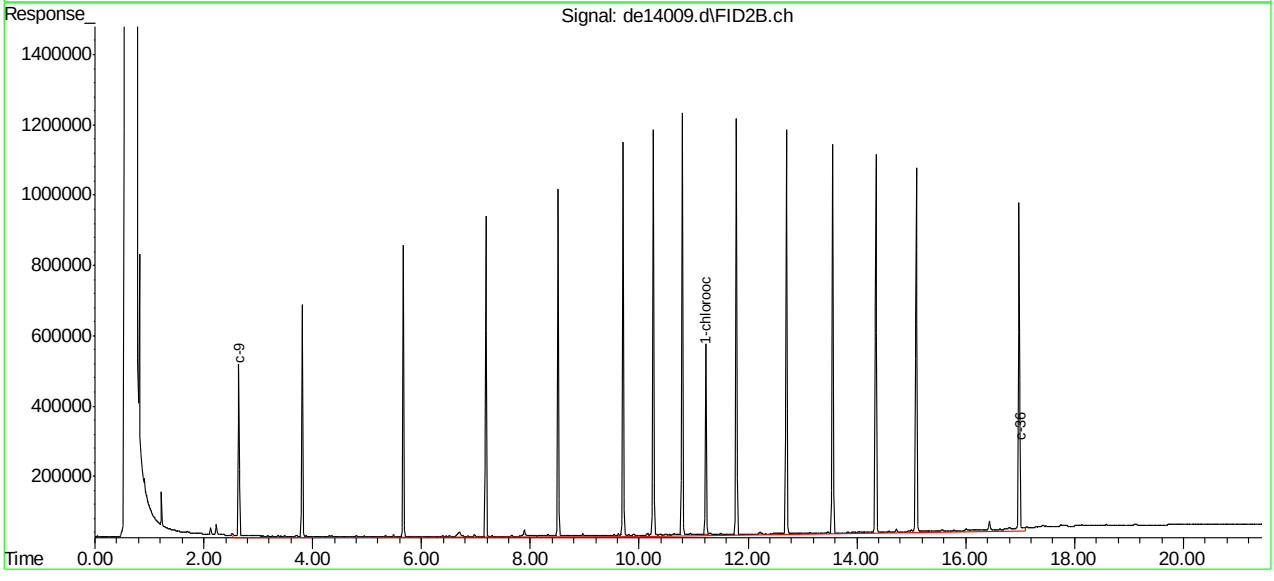
Quantitation Report (QT Reviewed)

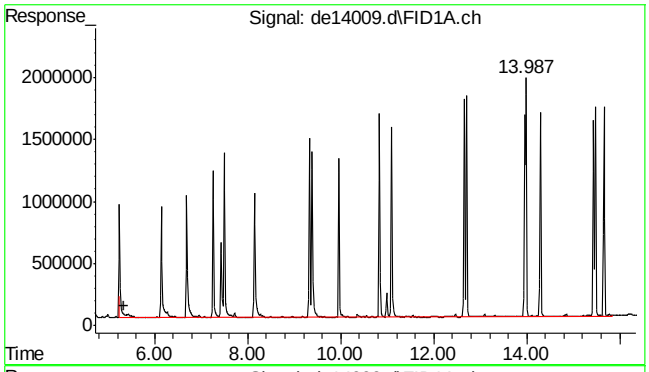
Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14009.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:05 pm
Operator : thomasa
Sample : op47292-ms
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:52:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

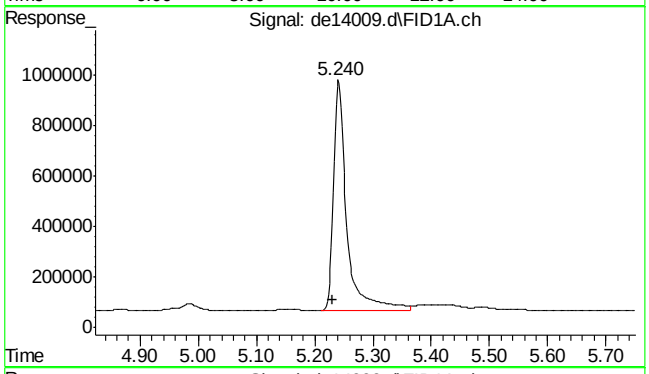






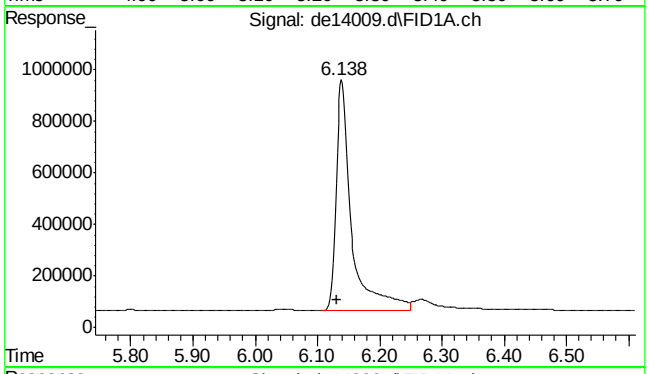
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 40364147
Conc: 411.02 µg/ml m



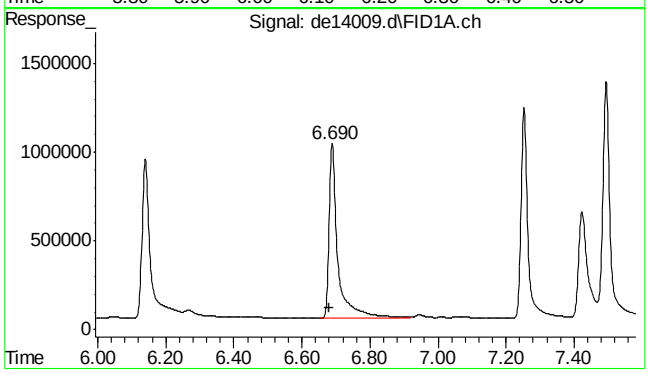
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 1475365
Conc: 14.30 µg/ml



#3 2-methylnaphthalene

R.T.: 6.138 min
Delta R.T.: 0.007 min
Response: 1549032
Conc: 15.12 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.690 min
Delta R.T.: 0.008 min
Response: 1765658
Conc: 19.14 µg/ml

9.4.1

9

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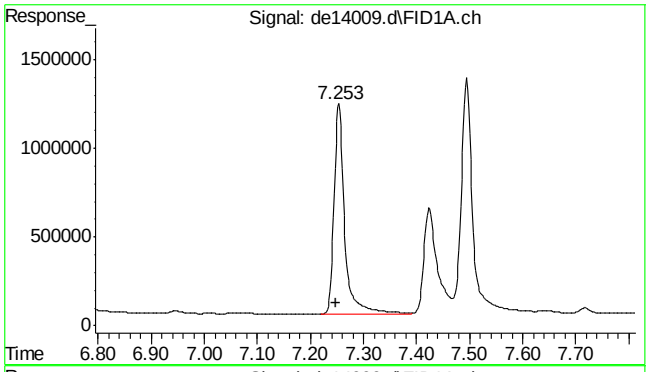
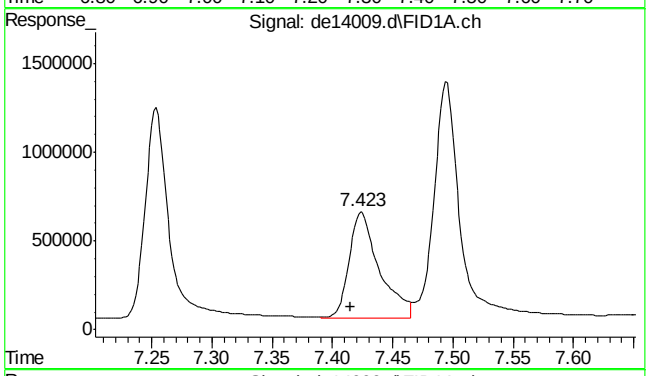


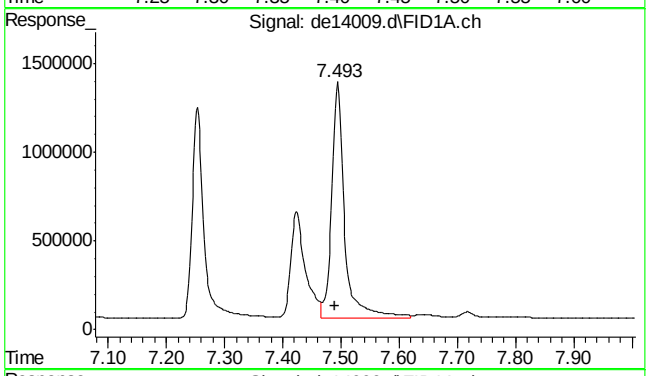
#5 acenaphthylene

R.T.: 7.253 min
Delta R.T.: 0.005 min
Response: 1660630
Conc: 16.51 µg/ml



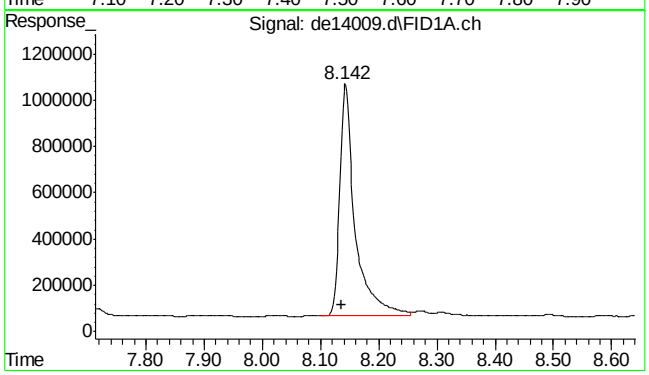
#6 2-bromonaphthalene

R.T.: 7.423 min
Delta R.T.: 0.008 min
Response: 1043453
Conc: 16.63 µg/ml



#7 acenaphthene

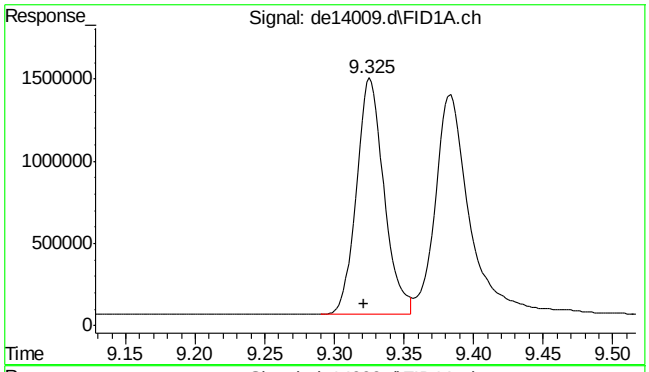
R.T.: 7.493 min
Delta R.T.: 0.003 min
Response: 2033858
Conc: 19.67 µg/ml



#8 fluorene

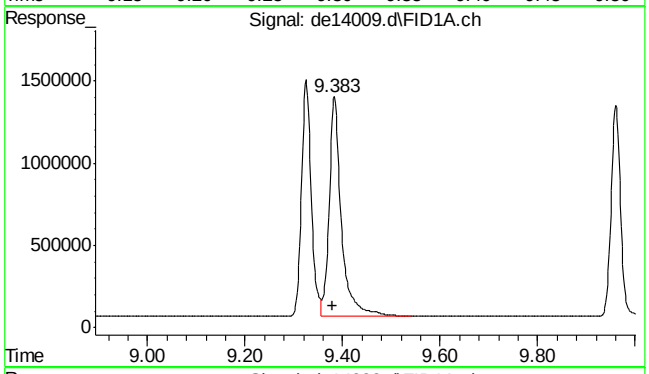
R.T.: 8.142 min
Delta R.T.: 0.005 min
Response: 1854099
Conc: 18.25 µg/ml

SGS ACCUTEST MC45580



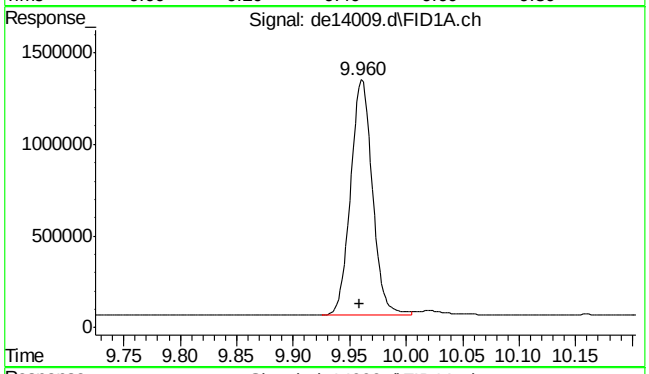
#9 phenanthrene

R.T.: 9.325 min
Delta R.T.: 0.003 min
Response: 1989654
Conc: 19.55 µg/ml



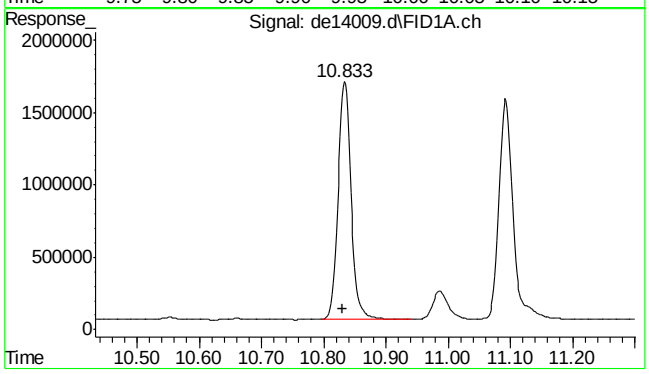
#10 anthracene

R.T.: 9.383 min
Delta R.T.: 0.003 min
Response: 2357811
Conc: 24.31 µg/ml



#11 o-terphenyl

R.T.: 9.960 min
Delta R.T.: 0.002 min
Response: 1706927
Conc: 16.66 µg/ml



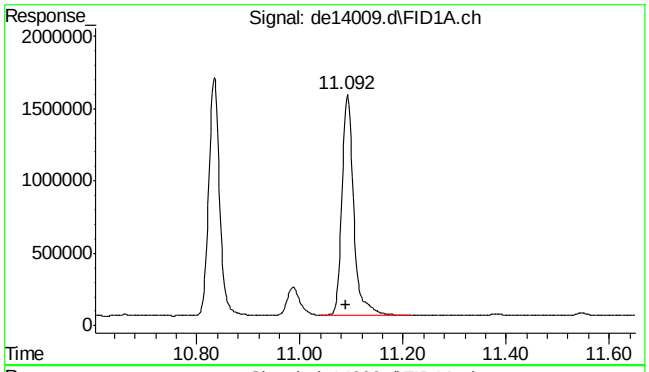
#12 fluoranthene

R.T.: 10.833 min
Delta R.T.: 0.003 min
Response: 2388825
Conc: 23.90 µg/ml

9.4.1

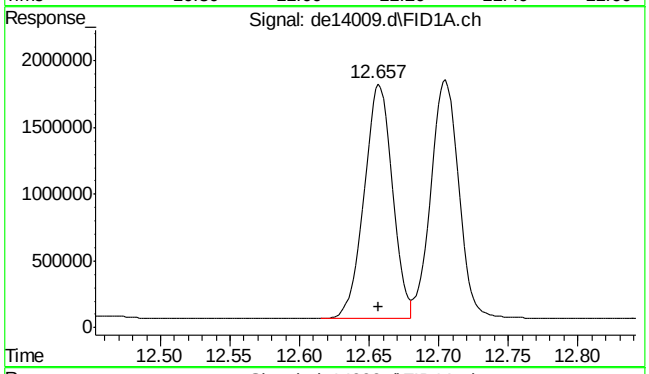
9

SGS ACCUTEST MC45580



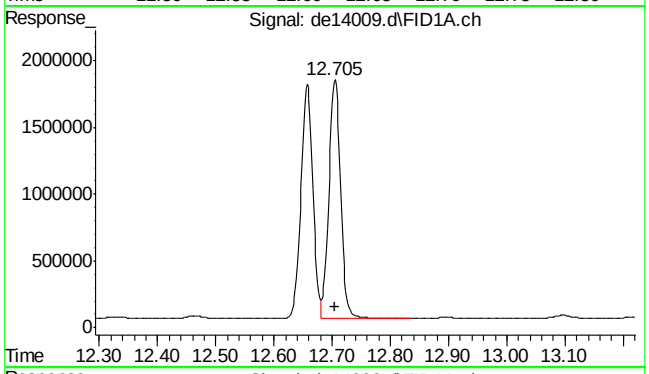
#13 pyrene

R.T.: 11.092 min
Delta R.T.: 0.002 min
Response: 2432627
Conc: 23.98 µg/ml



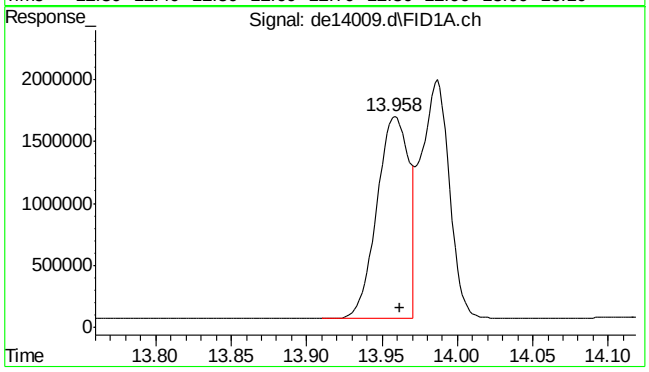
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2467759
Conc: 25.53 µg/ml



#15 chrysene

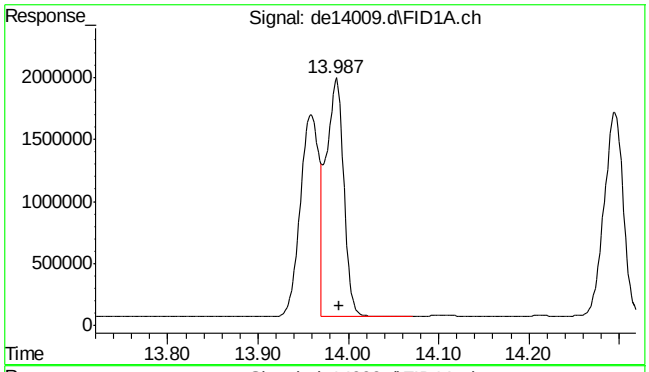
R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2497616
Conc: 25.66 µg/ml



#16 benzo(B)fluoranthene

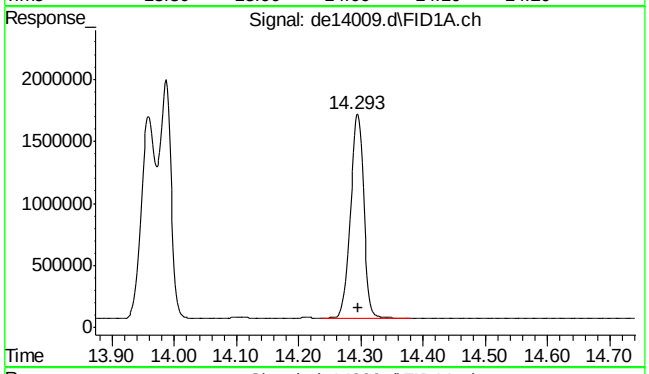
R.T.: 13.958 min
Delta R.T.: -0.003 min
Response: 2395339
Conc: 24.19 µg/ml

SGS ACCUTEST MC45580



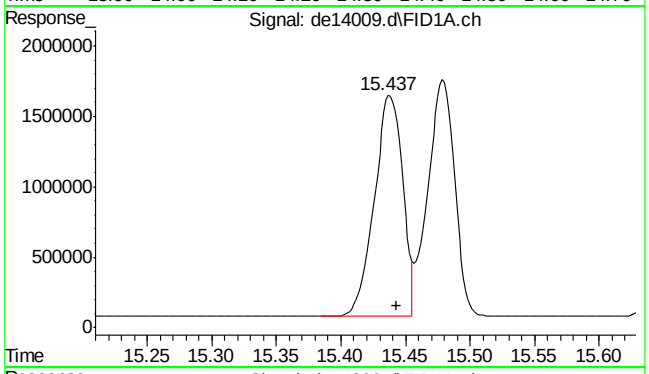
#17 benzo(k)fluoranthene

R.T.: 13.987 min
Delta R.T.: -0.003 min
Response: 2539142
Conc: 26.87 µg/ml



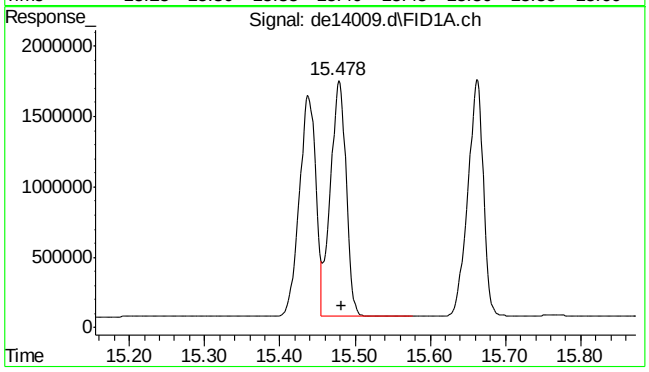
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2438064
Conc: 26.38 µg/ml



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

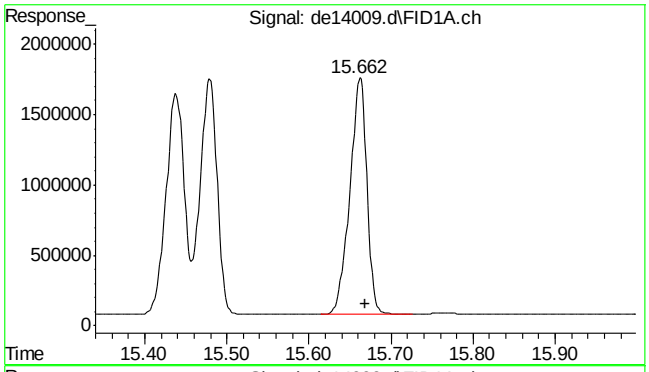
R.T.: 15.437 min
Delta R.T.: -0.007 min
Response: 2403328
Conc: 25.39 µg/ml



#20 dibenzo(ah)anthracene

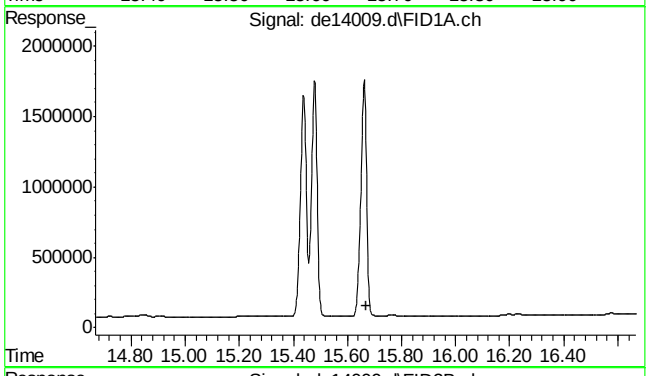
R.T.: 15.478 min
Delta R.T.: -0.003 min
Response: 2438373
Conc: 26.68 µg/ml

SGS ACCUTEST MC45580



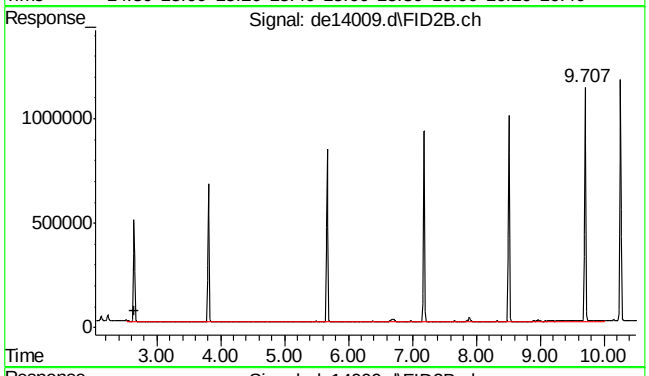
#21 benzo(ghi)perylene

R.T.: 15.662 min
Delta R.T.: -0.007 min
Response: 2428339
Conc: 26.36 µg/ml



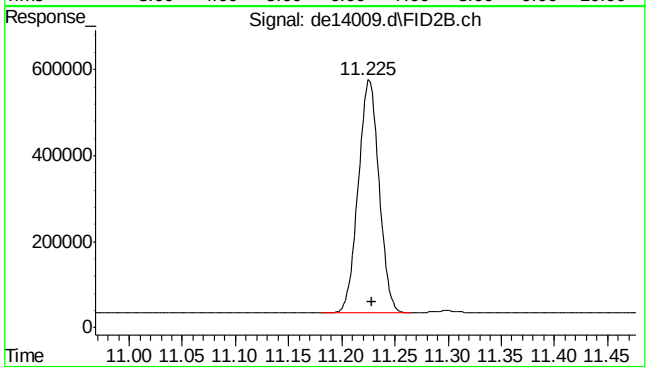
#22 bht

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: 7075299
Conc: 95.78 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 739086
Conc: 13.06 µg/ml

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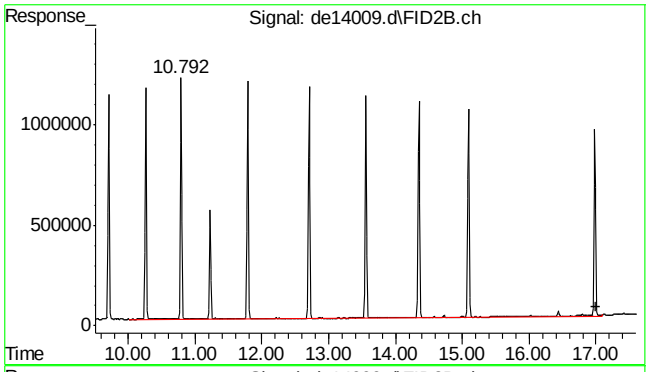
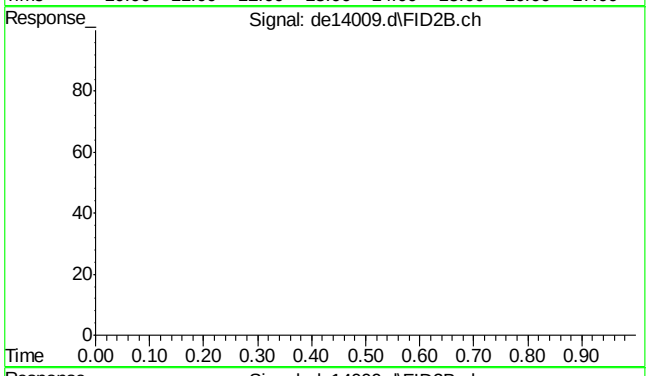


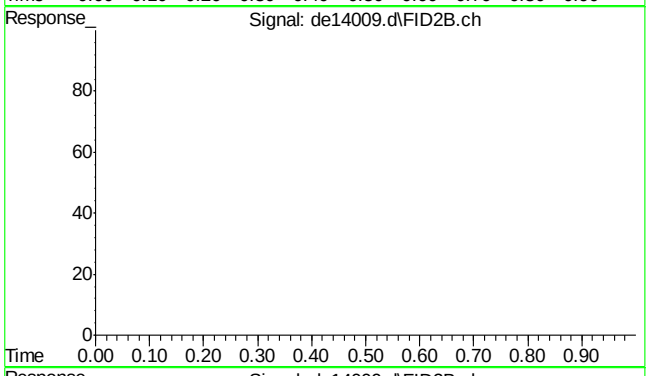
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 13690971
Conc: 204.93 µg/ml m



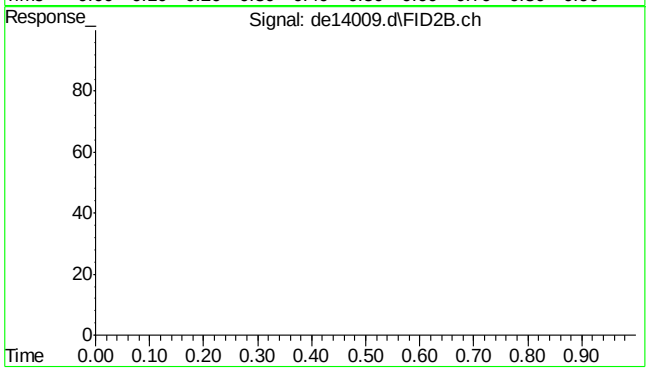
#42 bht

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



#43 bht

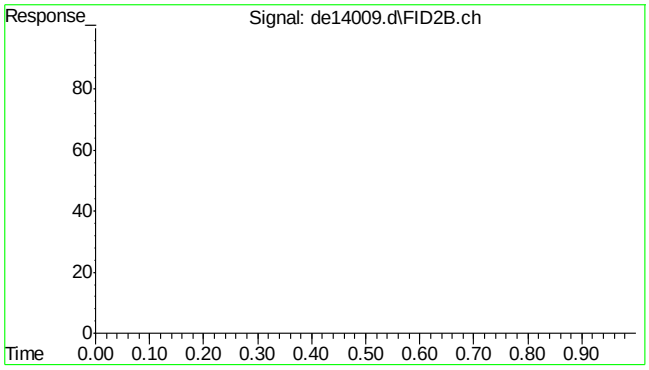
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

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

SGS ACCUTEST MC45580



#45 bht

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

9.4.1

9

SGS ACCUTEST MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
05/03/16 13:37

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:56:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.692	1610953	17.467 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.33%#	
6) s 2-bromonaphthalene	7.425	972543	15.497 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.48%#	
11) s o-terphenyl	9.962	1543510	15.069 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 75.35%#	
35) s 1-chlorooctadecane	11.225	683363	12.079 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 60.39%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36685786	373.565 µg/mlm
2) naphthalene	5.242	1300220	12.606 µg/ml
3) 2-methylnaphthalene	6.140	1385959	13.524 µg/ml
5) acenaphthylene	7.253	1511531	15.025 µg/ml
7) acenaphthene	7.495	1819403	17.600 µg/ml
8) fluorene	8.143	1692512	16.664 µg/ml
9) phenanthrene	9.327	1793888	17.628 µg/ml
10) anthracene	9.385	2099738	21.645 µg/ml
12) fluoranthene	10.835	2153342	21.546 µg/ml
13) pyrene	11.093	2181899	21.505 µg/ml
14) benzo(a)anthracene	12.657	2226013	23.026 µg/ml
15) chrysene	12.705	2262659	23.245 µg/ml
16) benzo(B)fluoranthene	13.960	2258997	22.818 µg/mlm
17) benzo(k)fluoranthene	13.988	2239281	23.695 µg/mlm
18) benzo(a)pyrene	14.293	2222069	24.039 µg/ml
19) indeno(1,2,3-cd)pyrene	15.438	2226593	23.522 µg/mlm
20) dibenzo(ah)anthracene	15.478	2220705	24.297 µg/mlm
21) benzo(ghi)perylene	15.660	2229560	24.202 µg/ml
25) h c-9	2.648	6974005	94.406 µg/mlm
41) h c-36	17.008	12910748	193.256 µg/mlm

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

9.4.2
9

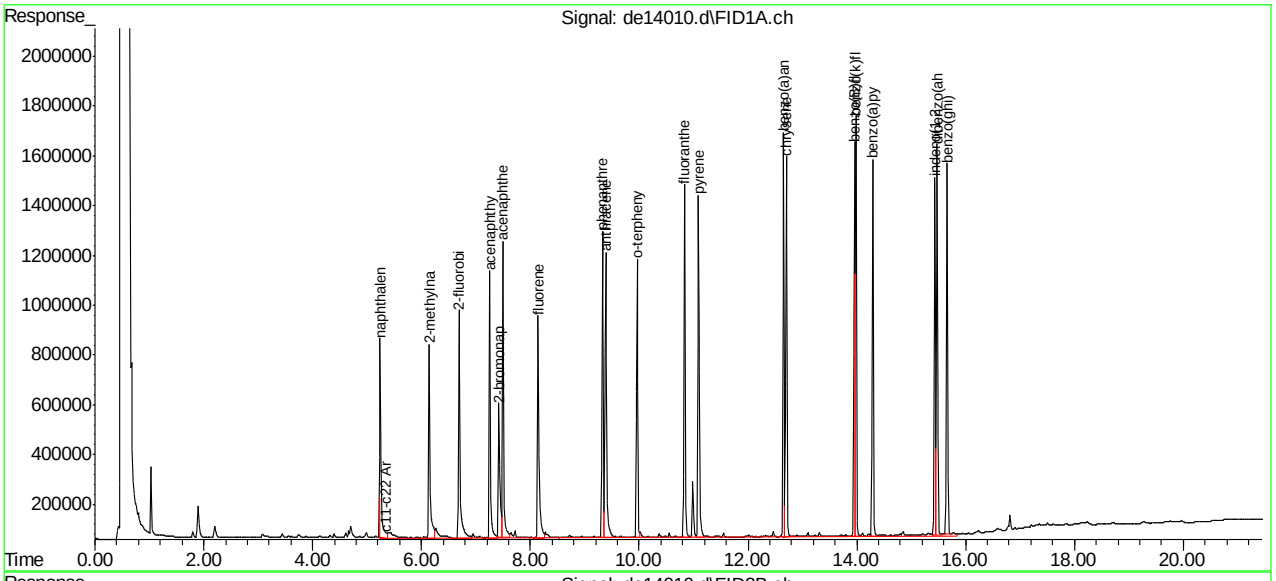
SGS ACCUTEST MC45580

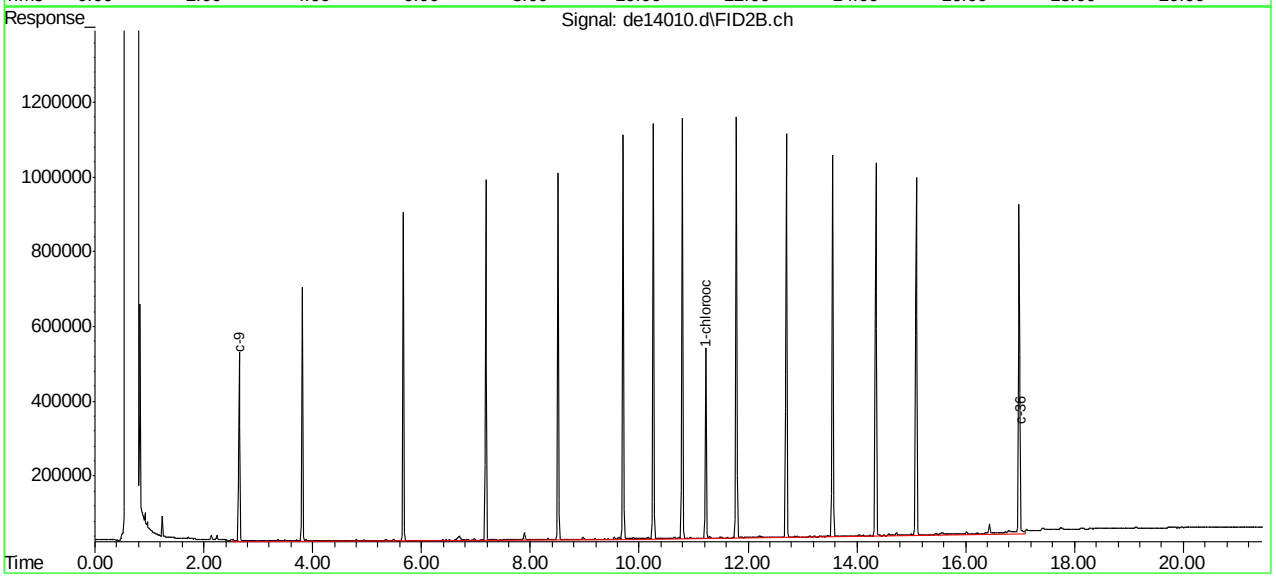
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

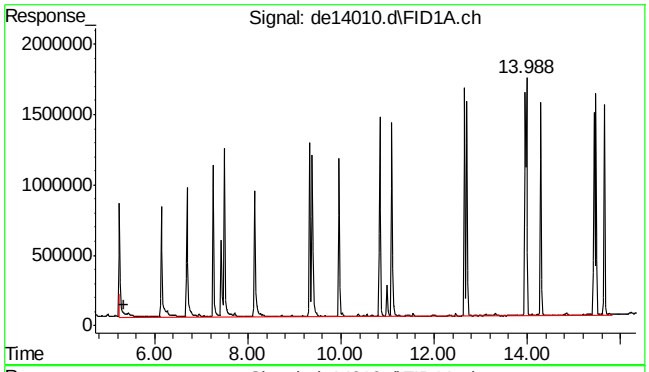
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 03 08:56:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



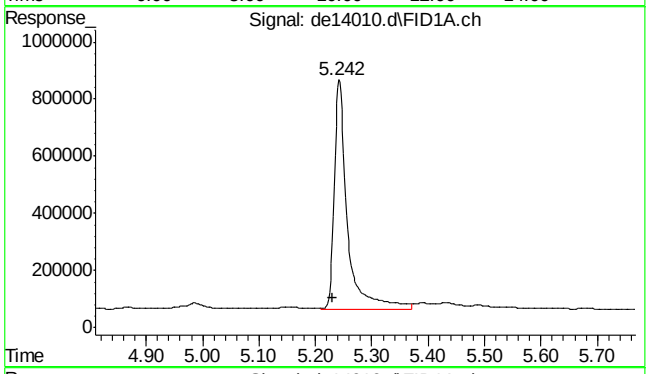


EPH160502W.M Tue May 03 13:29:20 2016 Page: 2



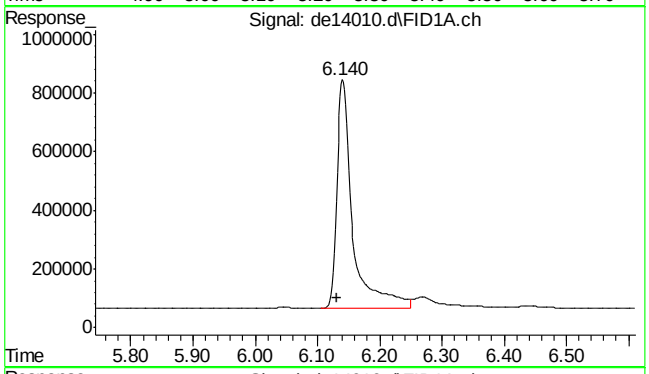
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36685786
Conc: 373.56 µg/ml m



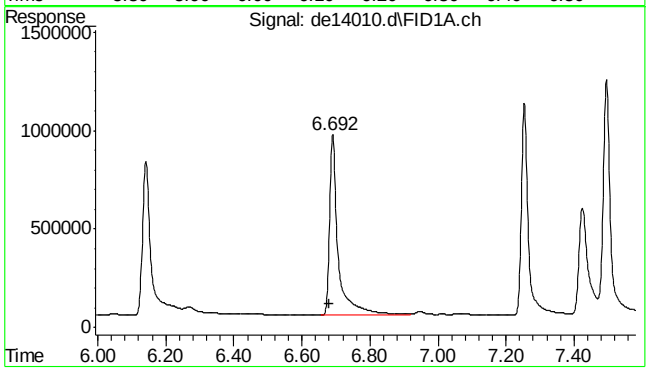
#2 naphthalene

R.T.: 5.242 min
Delta R.T.: 0.012 min
Response: 1300220
Conc: 12.61 µg/ml



#3 2-methylnaphthalene

R.T.: 6.140 min
Delta R.T.: 0.008 min
Response: 1385959
Conc: 13.52 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.692 min
Delta R.T.: 0.010 min
Response: 1610953
Conc: 17.47 µg/ml

9.4.2

9

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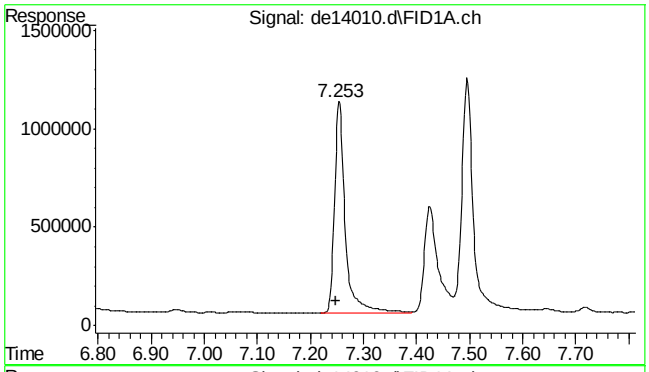
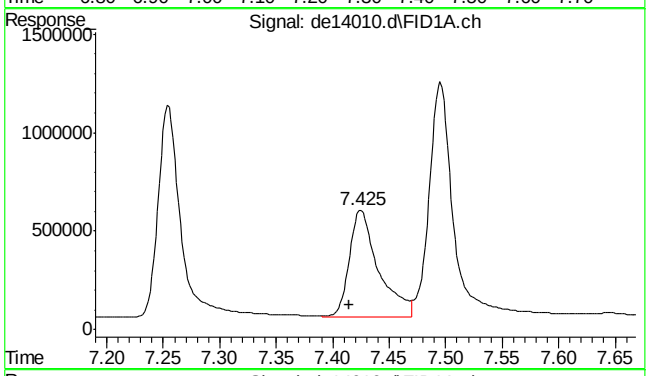


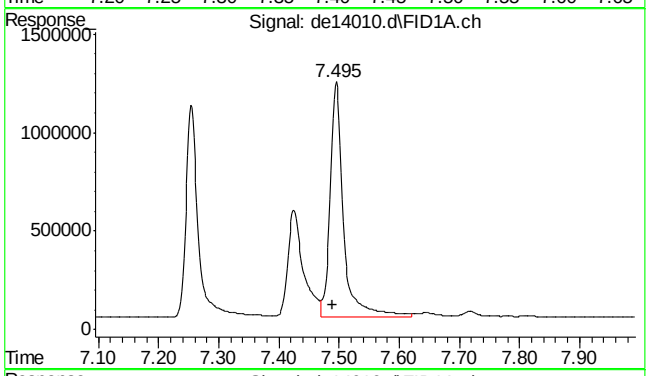
#5 acenaphthylene

R.T.: 7.253 min
Delta R.T.: 0.005 min
Response: 1511531
Conc: 15.02 µg/ml



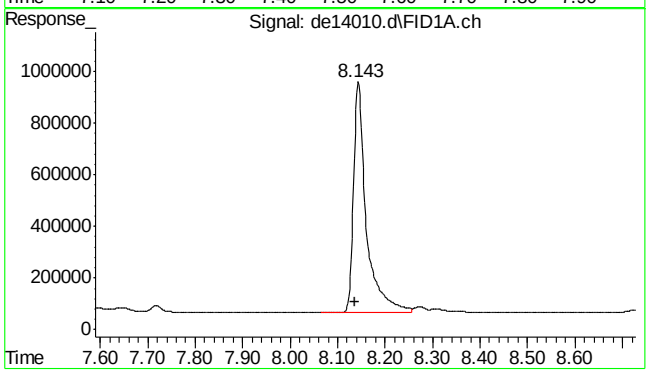
#6 2-bromonaphthalene

R.T.: 7.425 min
Delta R.T.: 0.010 min
Response: 972543
Conc: 15.50 µg/ml



#7 acenaphthene

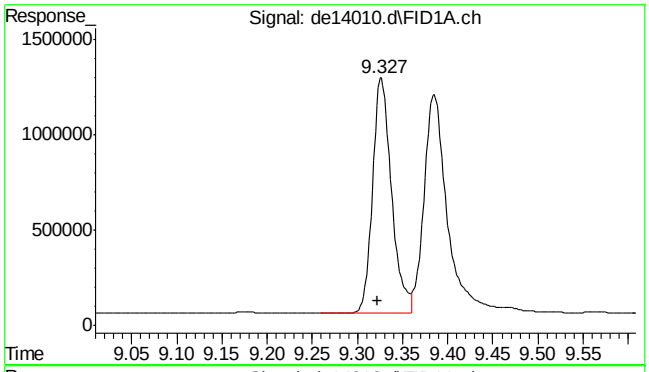
R.T.: 7.495 min
Delta R.T.: 0.005 min
Response: 1819403
Conc: 17.60 µg/ml



#8 fluorene

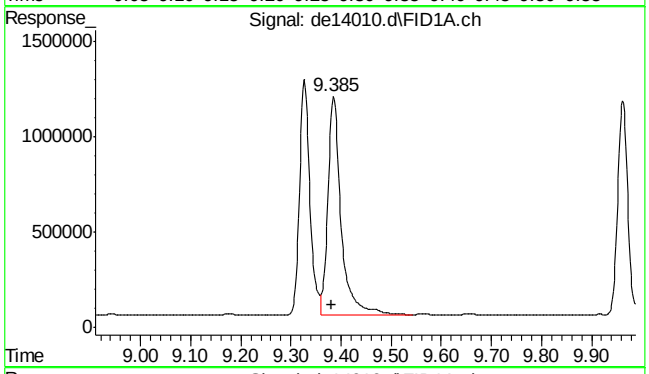
R.T.: 8.143 min
Delta R.T.: 0.007 min
Response: 1692512
Conc: 16.66 µg/ml

SGS ACCUTEST MC45580



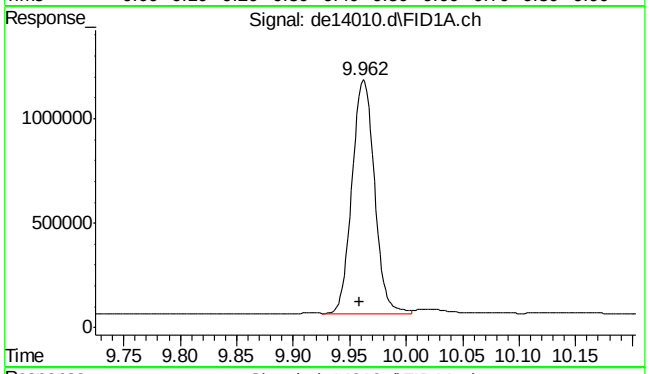
#9 phenanthrene

R.T.: 9.327 min
Delta R.T.: 0.005 min
Response: 1793888
Conc: 17.63 µg/ml



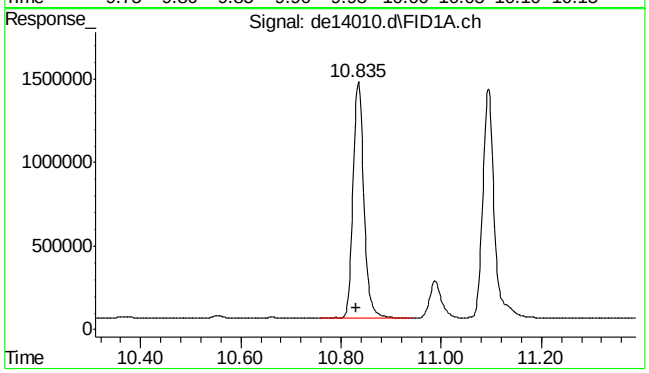
#10 anthracene

R.T.: 9.385 min
Delta R.T.: 0.005 min
Response: 2099738
Conc: 21.64 µg/ml



#11 o-terphenyl

R.T.: 9.962 min
Delta R.T.: 0.003 min
Response: 1543510
Conc: 15.07 µg/ml



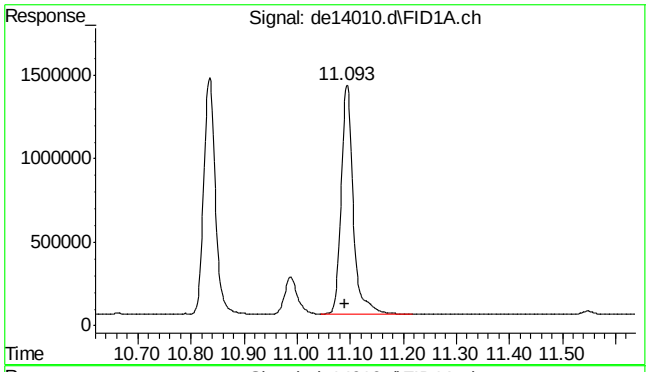
#12 fluoranthene

R.T.: 10.835 min
Delta R.T.: 0.005 min
Response: 2153342
Conc: 21.55 µg/ml

9.4.2

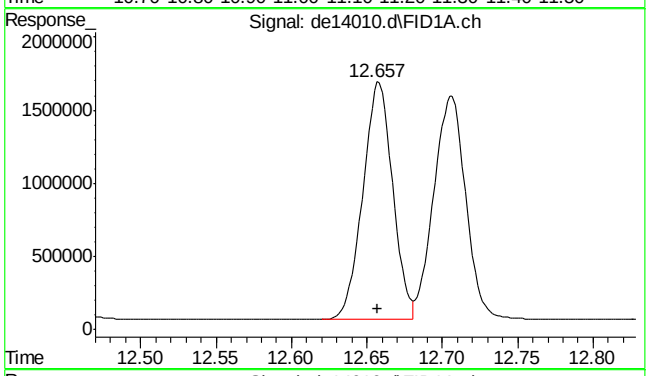
9

SGS ACCUTEST MC45580



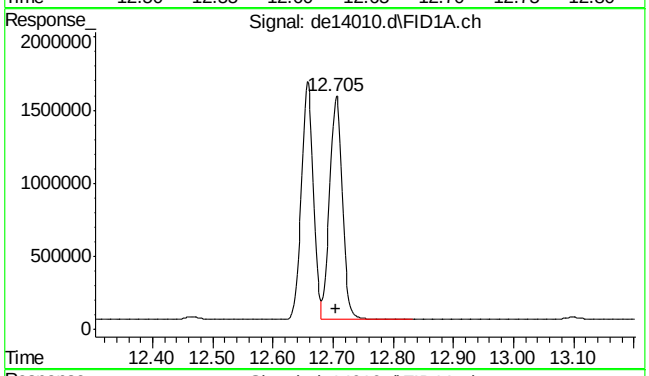
#13 pyrene

R.T.: 11.093 min
Delta R.T.: 0.003 min
Response: 2181899
Conc: 21.50 µg/ml



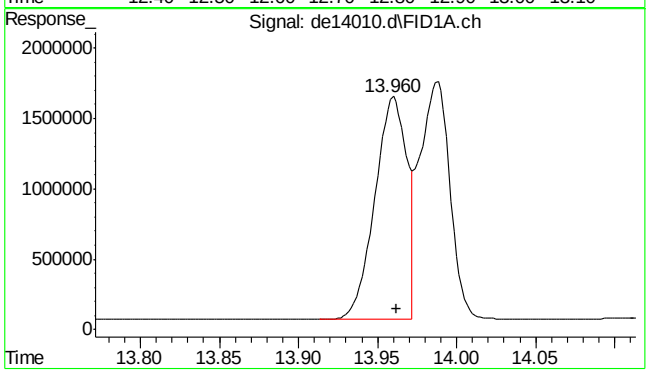
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 2226013
Conc: 23.03 µg/ml



#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 2262659
Conc: 23.24 µg/ml



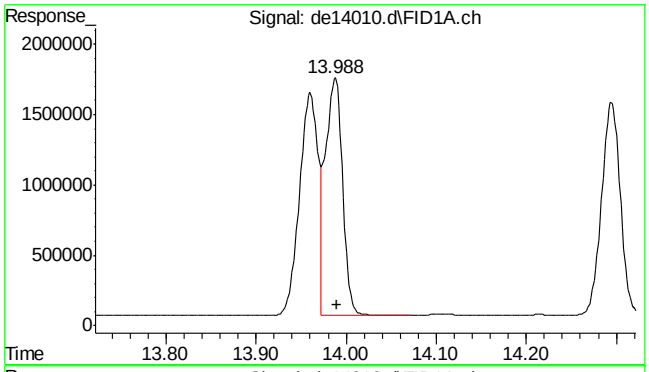
#16 benzo(B)fluoranthene

R.T.: 13.960 min
Delta R.T.: -0.002 min
Response: 2258997
Conc: 22.82 µg/ml m

9.4.2

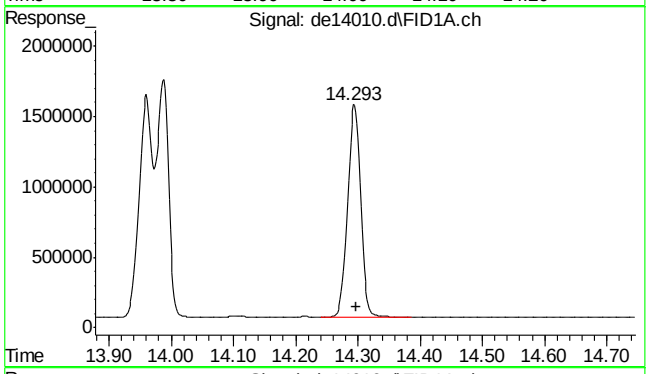
9

SGS ACCUTEST MC45580



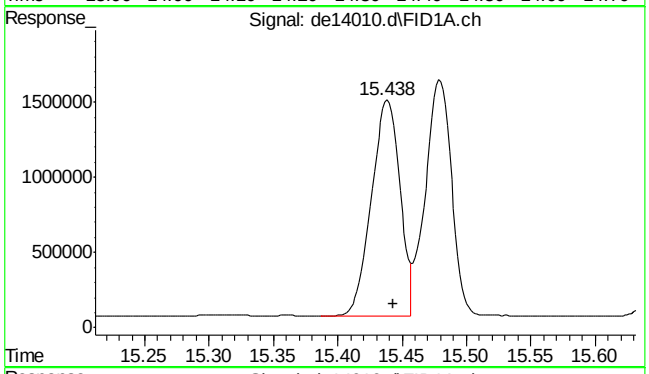
#17 benzo(k)fluoranthene

R.T.: 13.988 min
Delta R.T.: -0.002 min
Response: 2239281
Conc: 23.70 µg/ml m



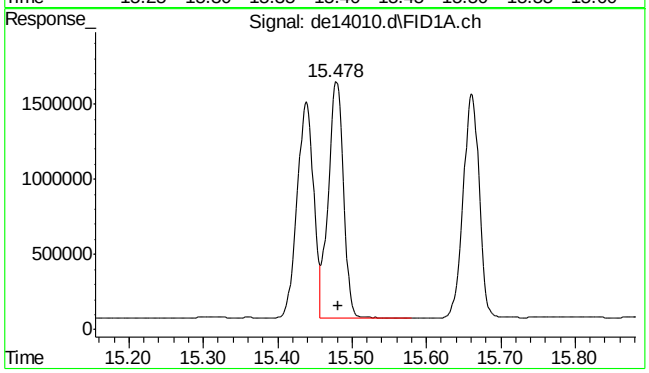
#18 benzo(a)pyrene

R.T.: 14.293 min
Delta R.T.: -0.003 min
Response: 2222069
Conc: 24.04 µg/ml



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

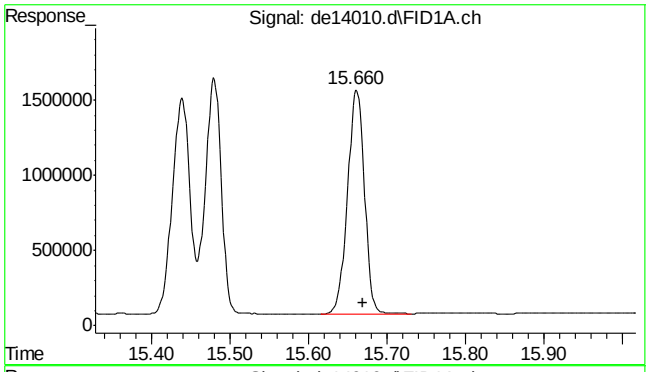
R.T.: 15.438 min
Delta R.T.: -0.005 min
Response: 2226593
Conc: 23.52 µg/ml m



#20 dibenzo(ah)anthracene

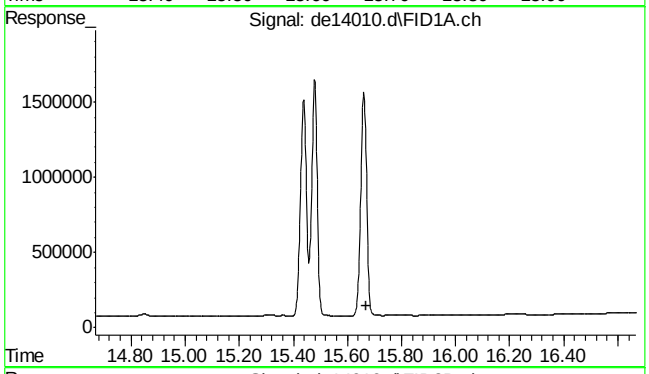
R.T.: 15.478 min
Delta R.T.: -0.003 min
Response: 2220705
Conc: 24.30 µg/ml m

SGS ACCUTEST MC45580



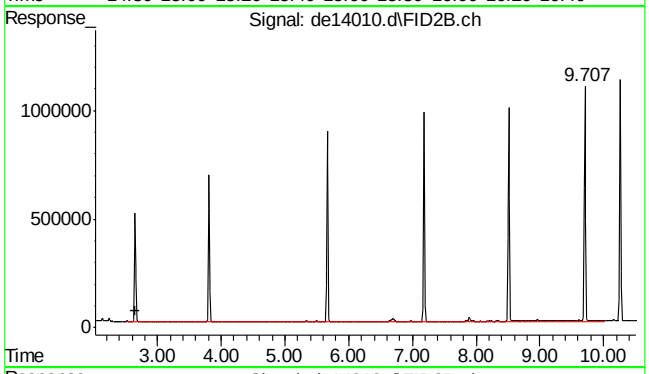
#21 benzo(ghi)perylene

R.T.: 15.660 min
Delta R.T.: -0.008 min
Response: 2229560
Conc: 24.20 µg/ml



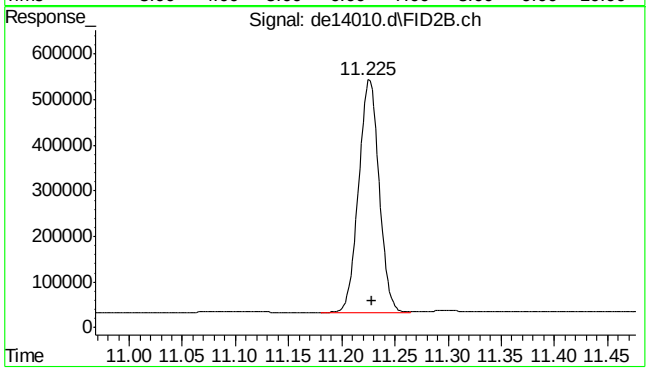
#22 bht

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: 6974005
Conc: 94.41 µg/ml m



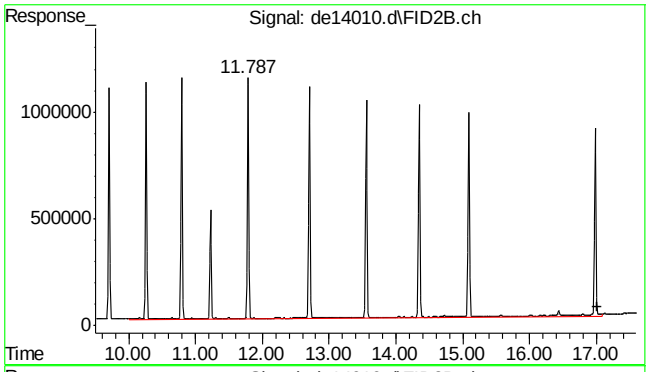
#35 1-chlorooctadecane

R.T.: 11.225 min
Delta R.T.: -0.003 min
Response: 683363
Conc: 12.08 µg/ml

9.4.2

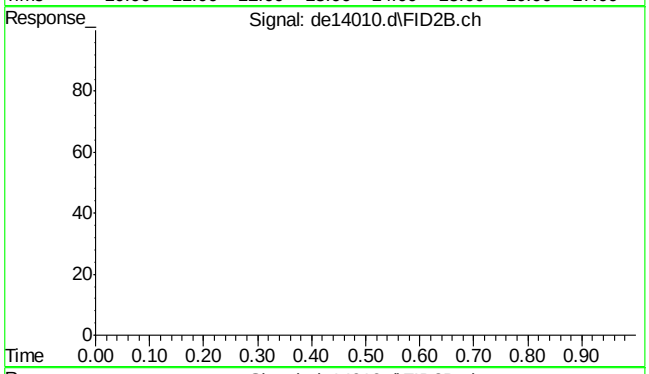
9

SGS ACCUTEST MC45580



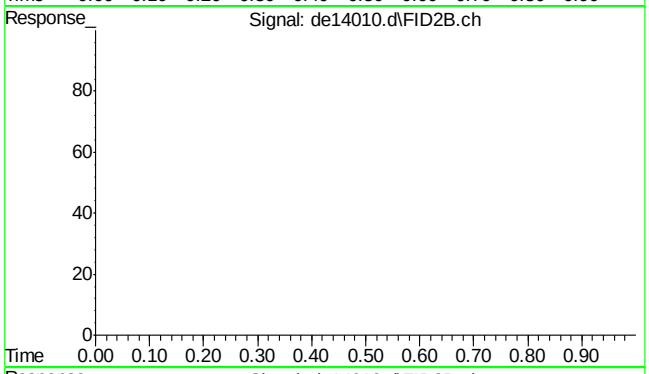
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 12910748
Conc: 193.26 µg/ml m



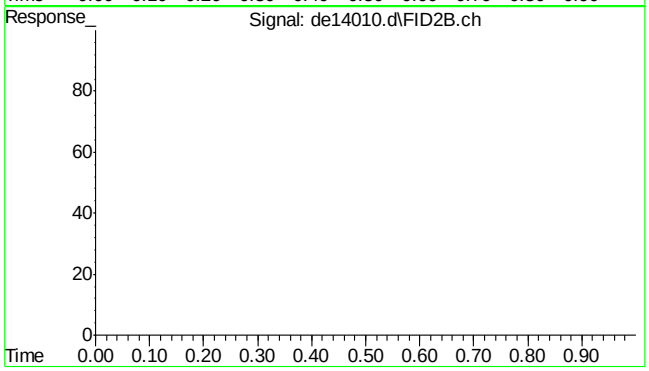
#42 bht

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



#43 bht

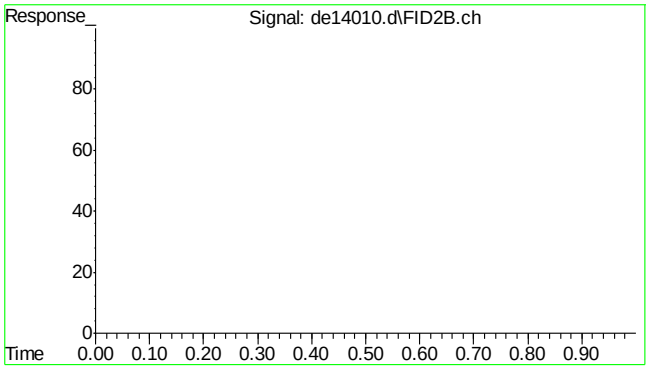
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

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

SGS ACCUTEST MC45580



#45 bht

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

9.4.2

9

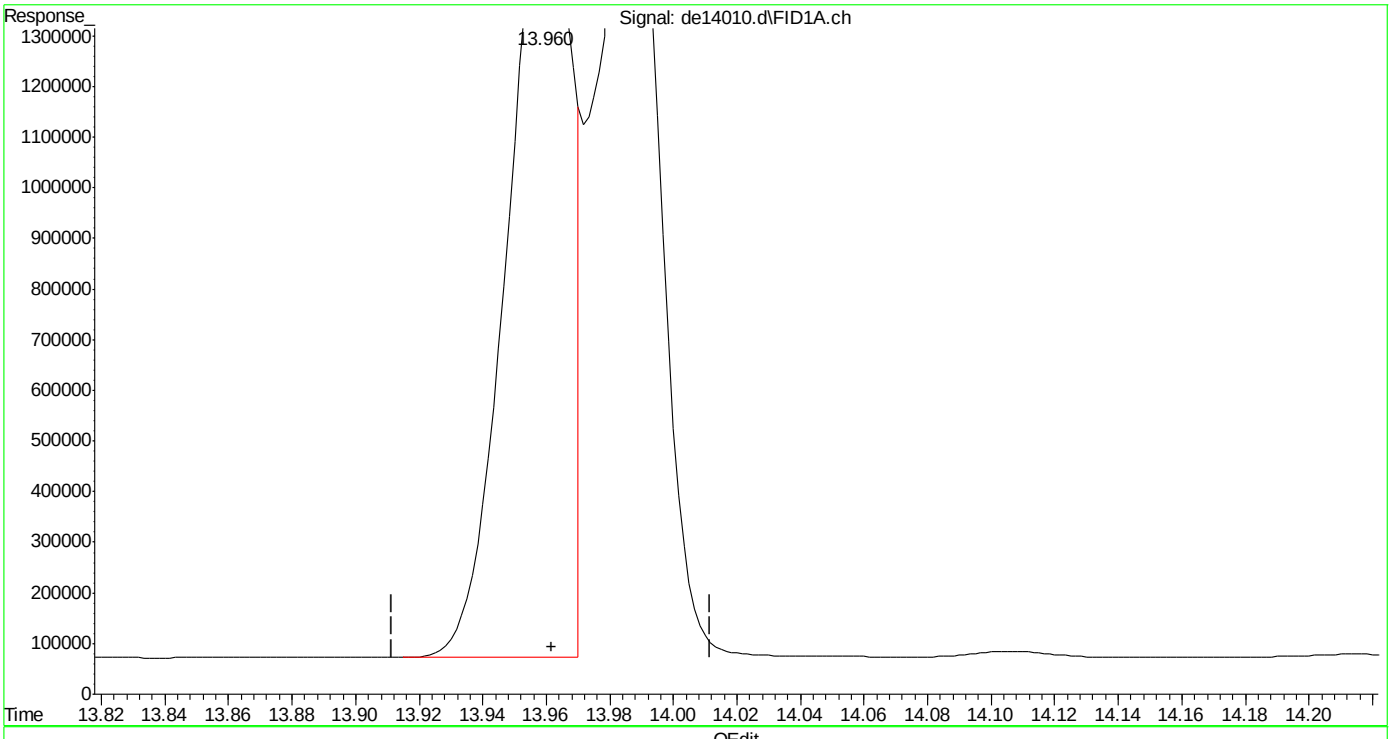
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.960min 21.748 µg/ml
response 2153080

(+) = Expected Retention Time

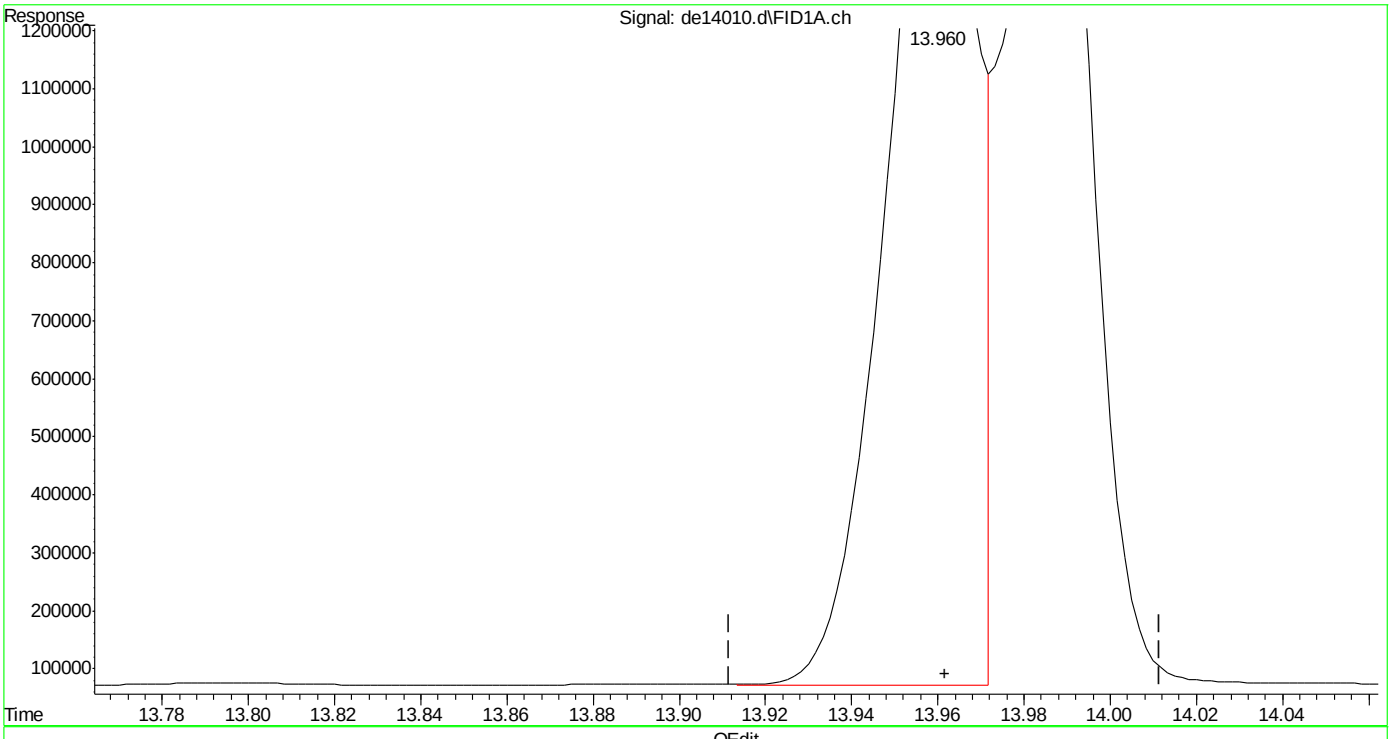
EPH160502W.M Tue May 03 08:53:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
13.960min 22.818 µg/ml m
response 2258997

(+) = Expected Retention Time

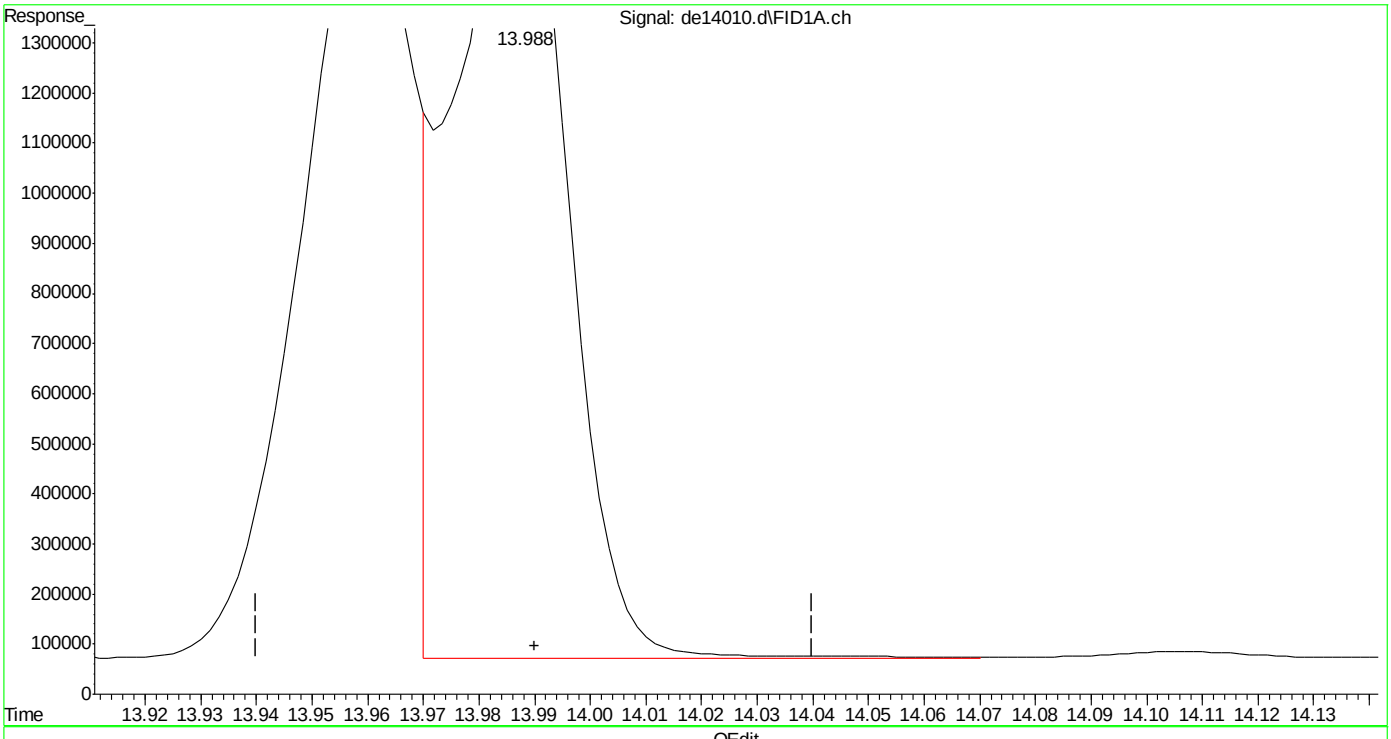
EPH160502W.M Tue May 03 08:53:55 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.988min 24.771 µg/ml
response 2340955

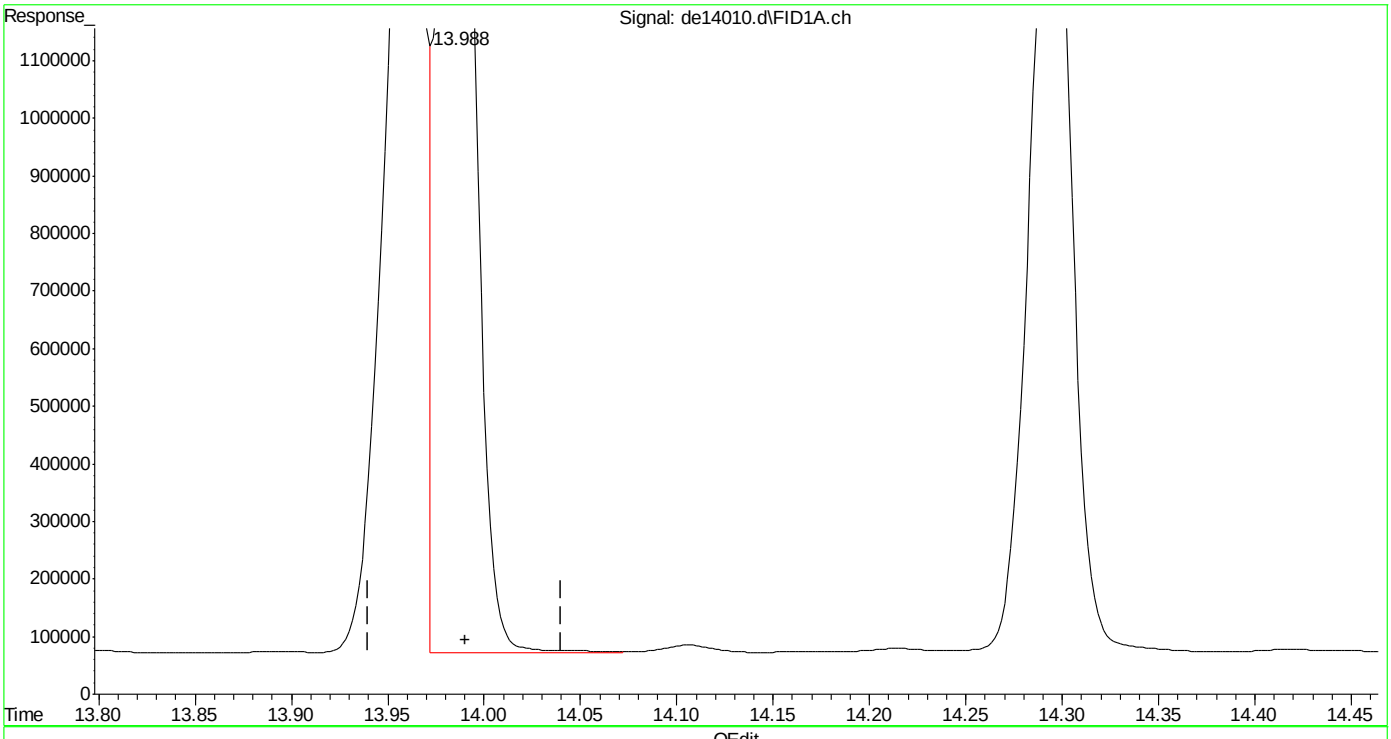
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:53:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
13.988min 23.695 µg/ml m
response 2239281

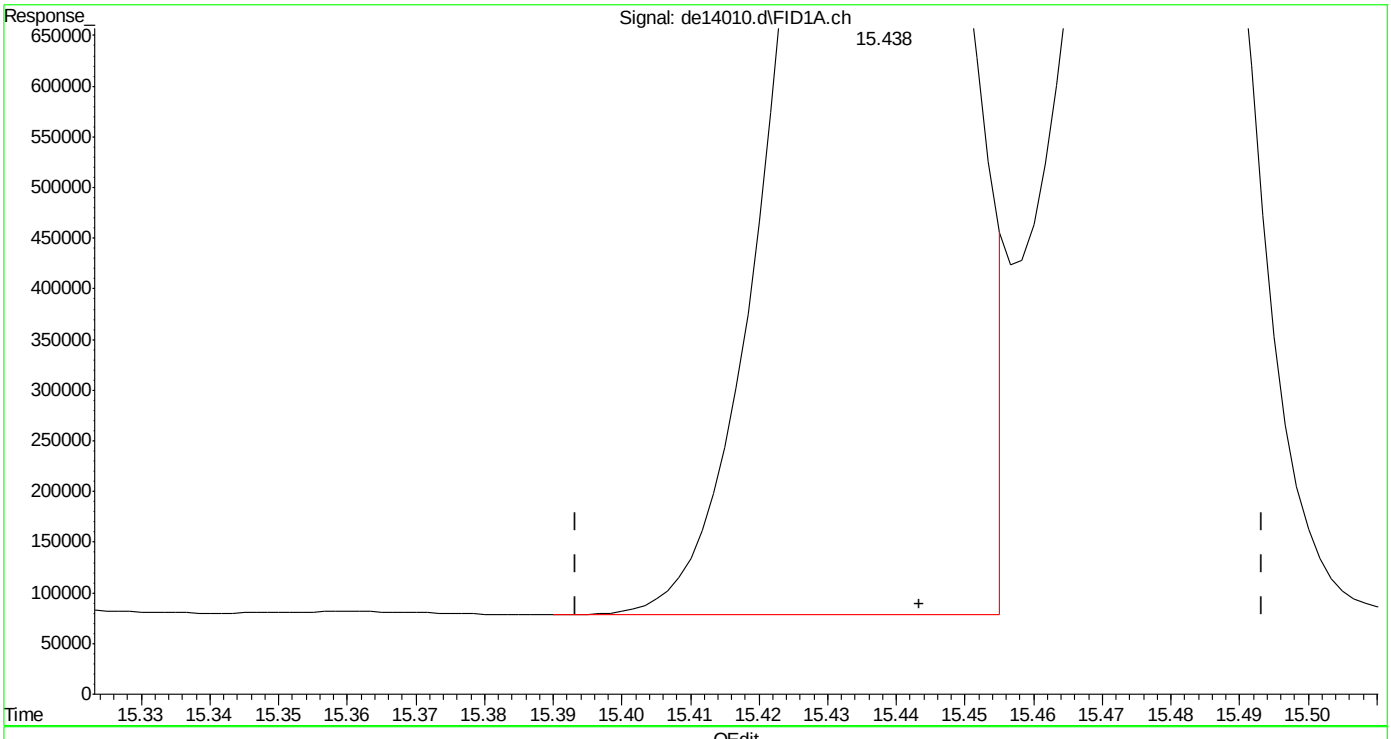
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.438min 23.134 µg/ml
response 2189842

(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:36 2016 Page: 1

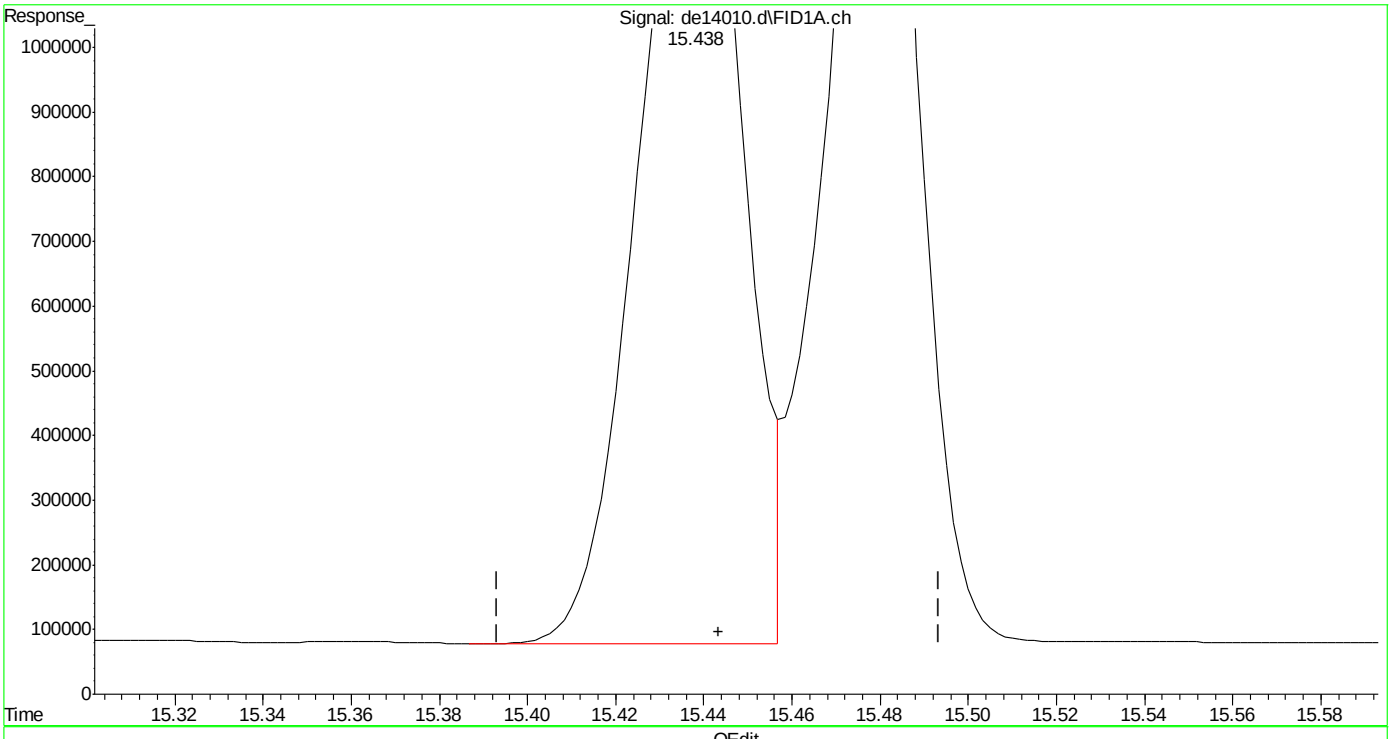
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.438min 23.522 µg/ml m
response 2226593

(+) = Expected Retention Time

EPH160502W.M Tue May 03 08:54:52 2016

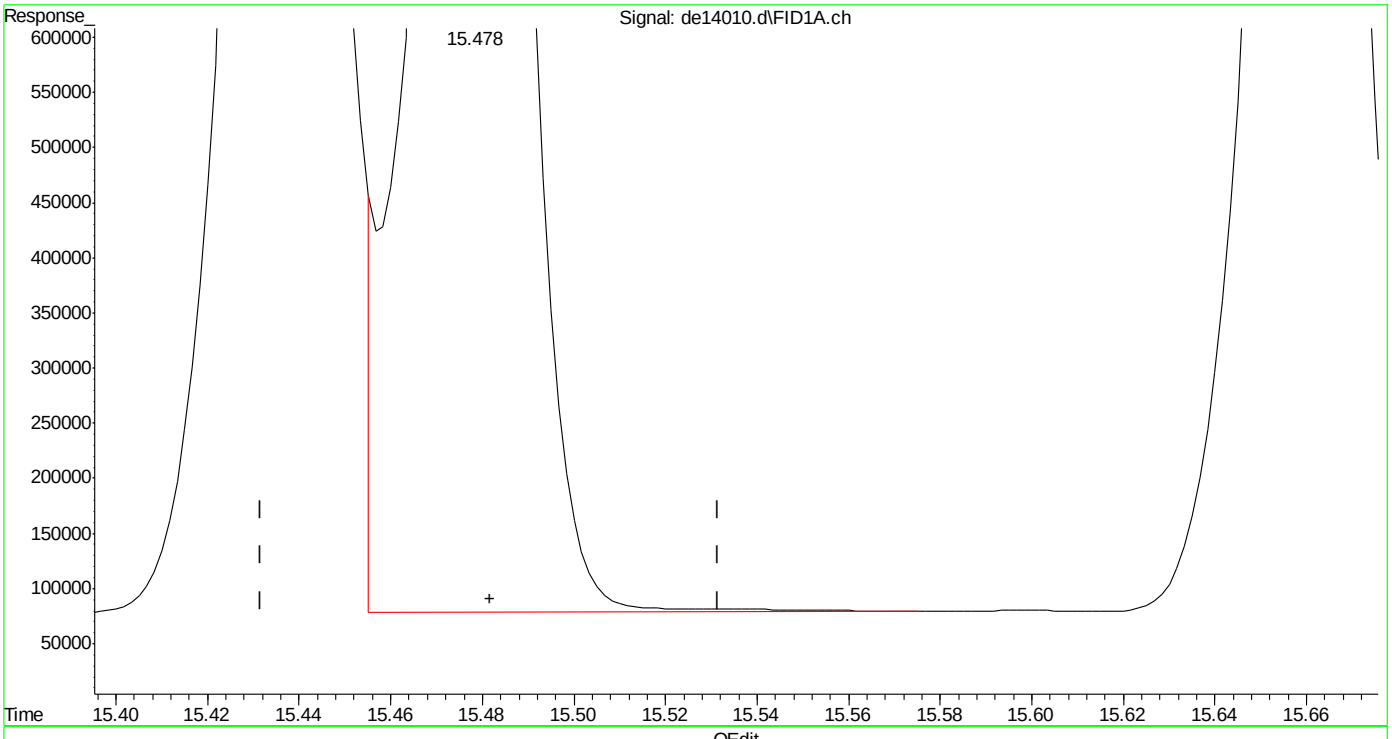
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.478min 24.638 µg/ml
response 2251872

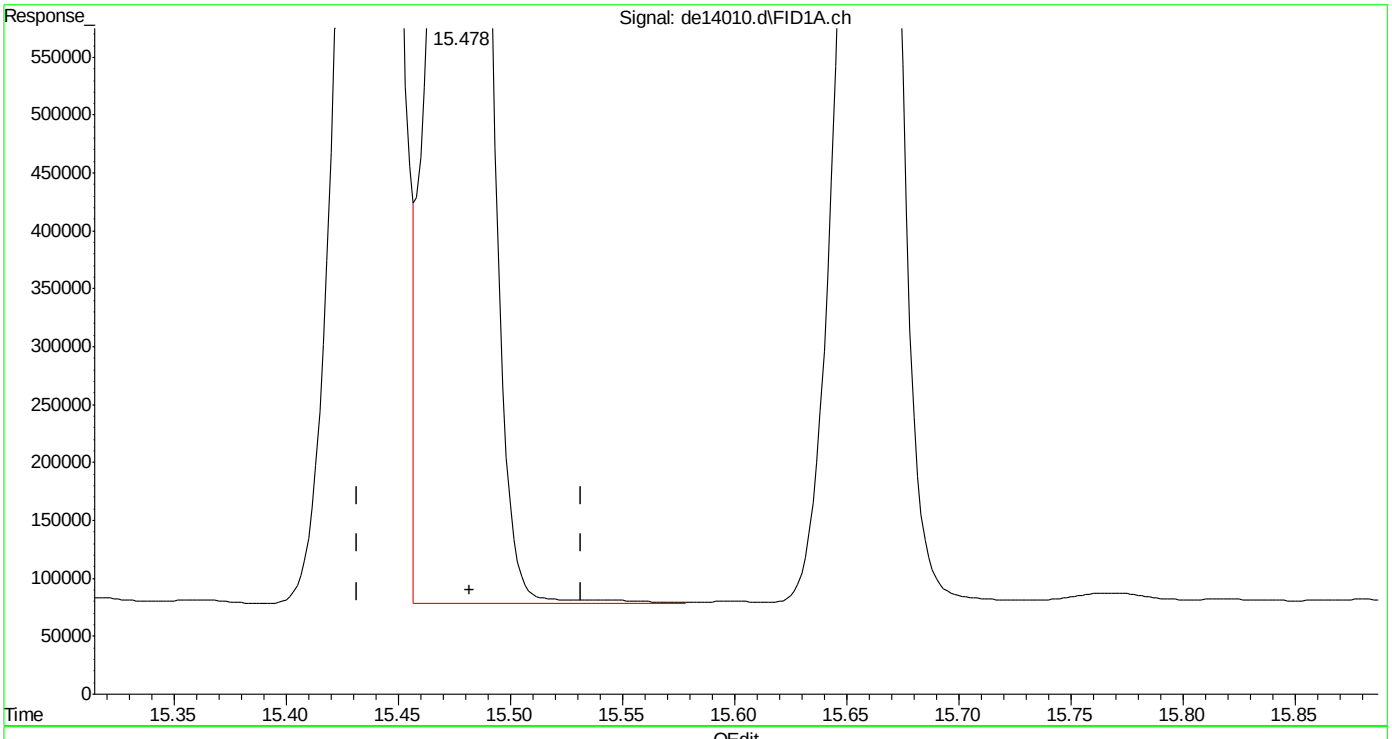
(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:54:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14010.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 3:33 pm
Operator : thomasa
Sample : op47292-msd
Misc : op47292,gde783,880,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:24:01 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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
15.478min 24.297 µg/ml m
response 2220705

(+) = Expected Retention Time
EPH160502W.M Tue May 03 08:55:07 2016

SGS ACCUTEST MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	93024	0.934 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.67%#		
6) s 2-bromonaphthalene	7.530	61936	0.915 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.58%#		
11) s o-terphenyl	10.077	103028	0.955 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 4.78%#		
35) s 1-chlorooctadecane	11.247	61176	1.132 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 5.66%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	2460719	2.656 µg/mlm
2) naphthalene	5.353	100885	0.898 µg/ml
3) 2-methylnaphthalene	6.250	102950	0.929 µg/ml
5) acenaphthylene	7.365	99947	0.913 µg/ml
7) acenaphthene	7.607	101818	0.916 µg/ml
8) fluorene	8.250	100695	0.925 µg/ml
9) phenanthrene	9.435	101800	0.942 µg/ml
10) anthracene	9.490	96242	0.961 µg/ml
12) fluoranthene	10.940	103521	0.991 µg/ml
13) pyrene	11.198	105548	1.007 µg/ml
14) benzo(a)anthracene	12.758	100487	1.022 µg/mlm
15) chrysene	12.805	100279	1.010 µg/mlm
16) benzo(B)fluoranthene	14.053	100827	0.988 µg/mlm
17) benzo(k)fluoranthene	14.078	95833	0.978 µg/mlm
18) benzo(a)pyrene	14.388	94743	0.968 µg/ml
19) indeno(1,2,3-cd)pyrene	15.522	94483	0.967 µg/ml
20) dibenzo(ah)anthracene	15.568	92785	0.988 µg/ml
21) benzo(ghi)perylene	15.740f	93453	0.991 µg/ml
25) h c-9	2.680	76082	1.052 µg/mlm
26) h c-10	3.833	77300	1.065 µg/mlm
27) naphthalene #2	5.510	81982	1.068 µg/ml
28) c-12	5.685	76748	1.061 µg/ml
29) 2-methylnaphthalene #2	6.403	85696	1.079 µg/ml
30) c-14	7.202	77909	1.081 µg/ml
31) c-16	8.530	78733	1.103 µg/ml
32) c-18	9.725	77956	1.097 µg/ml
33) c-19	10.282	78108	1.157 µg/ml
34) c-20	10.812	75638	1.131 µg/ml
36) c-22	11.807	73192	1.099 µg/ml
37) c-24	12.725	69851	1.086 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.578	72850	1.099	µg/ml
39)		c-28	14.370	69399	1.064	µg/ml
40)	h	c-30	15.122	74594	1.144	µg/mlm
41)	h	c-36	17.010	60516	0.967	µg/mlm

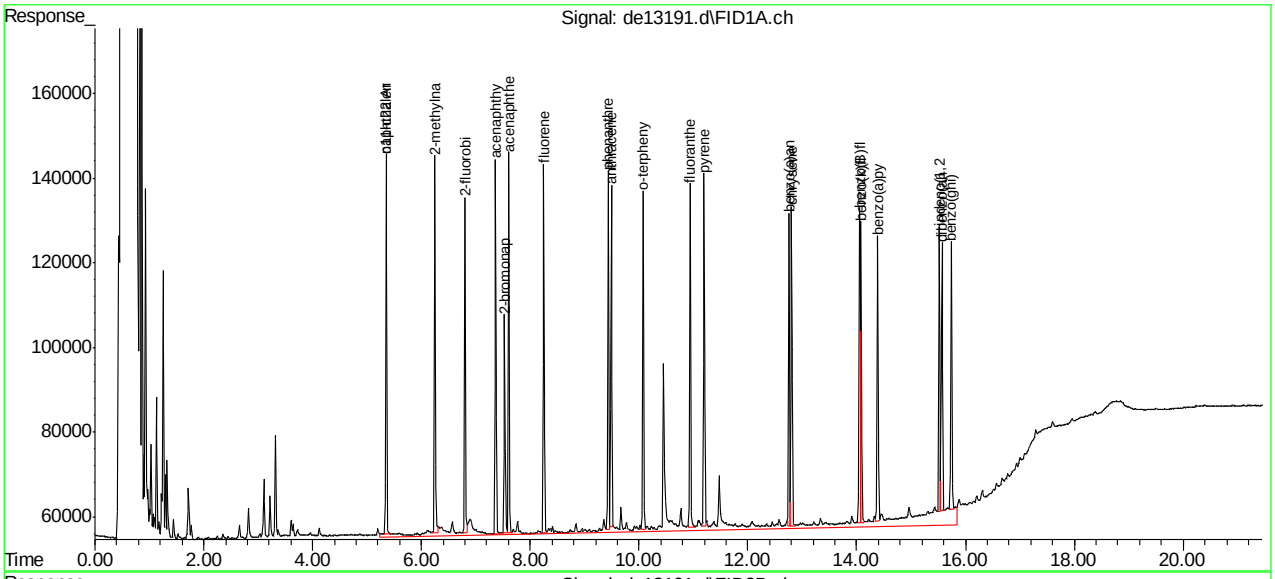
(f)=RT Delta > 1/2 Window (m)=manual int.

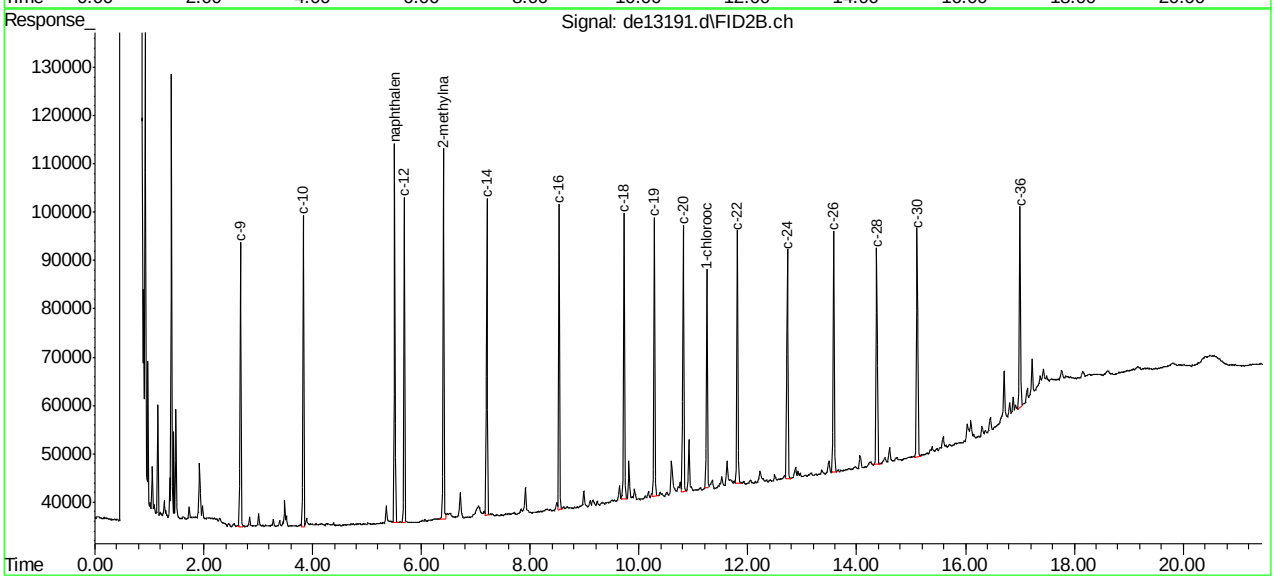
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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





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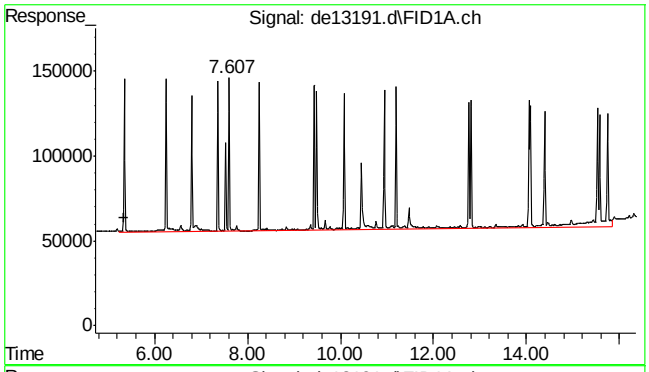
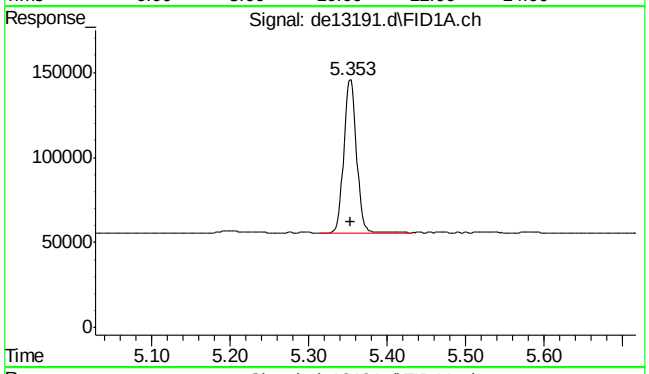


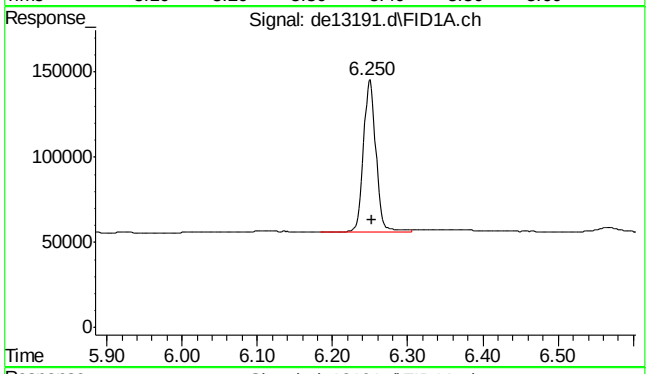
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 2460719
Conc: 2.66 µg/ml m



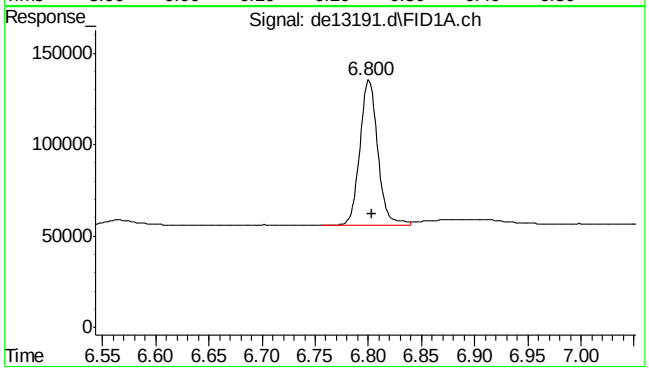
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 100885
Conc: 0.90 µg/ml



#3 2-methylnaphthalene

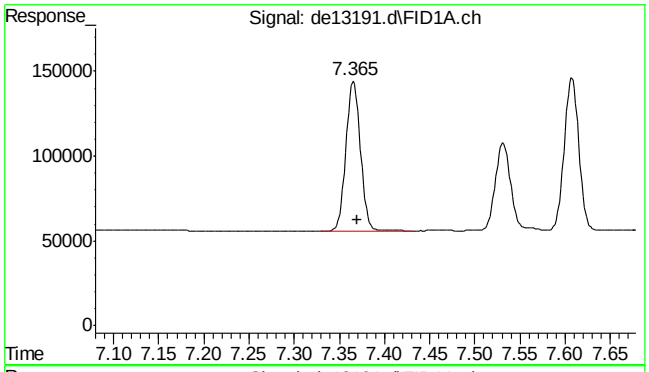
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 102950
Conc: 0.93 µg/ml



#4 2-fluorobiphenyl

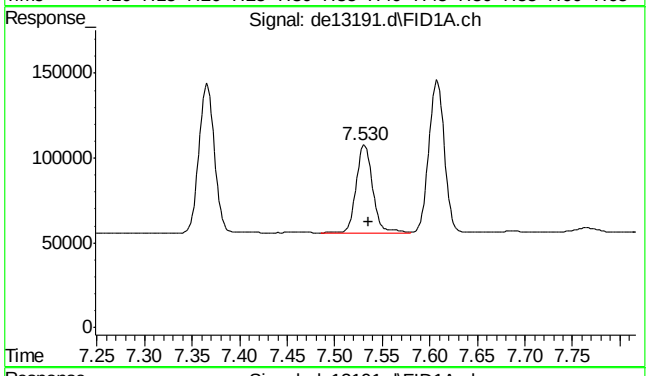
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 93024
Conc: 0.93 µg/ml

SGS ACCUTEST MC45580



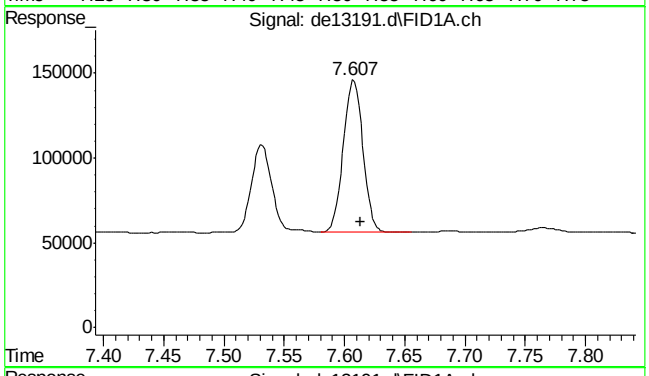
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 99947
Conc: 0.91 µg/ml



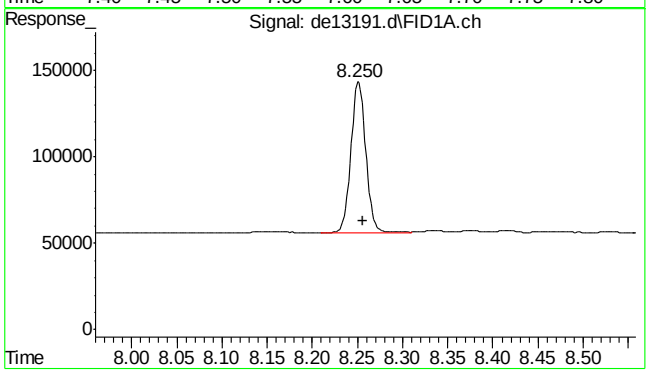
#6 2-bromonaphthalene

R.T.: 7.530 min
Delta R.T.: -0.005 min
Response: 61936
Conc: 0.91 µg/ml



#7 acenaphthene

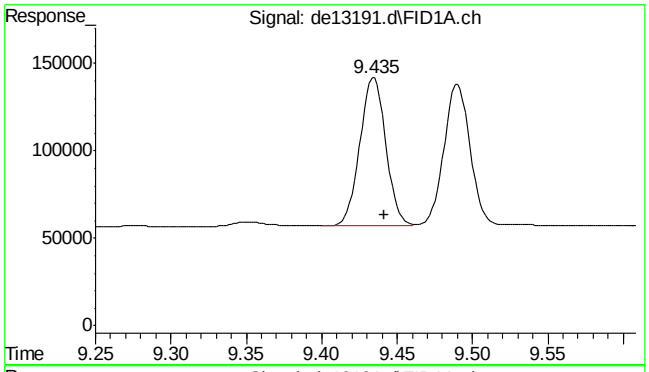
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 101818
Conc: 0.92 µg/ml



#8 fluorene

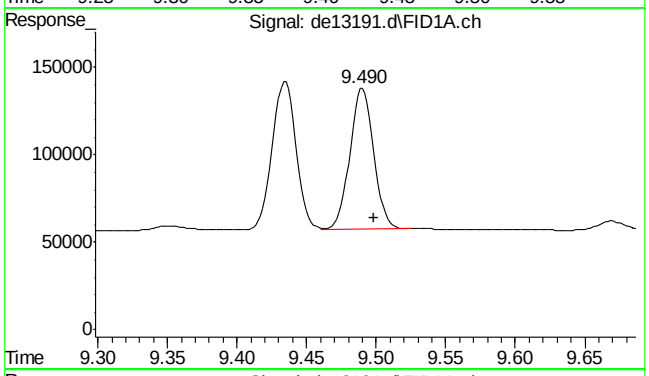
R.T.: 8.250 min
Delta R.T.: -0.007 min
Response: 100695
Conc: 0.92 µg/ml

SGS ACCUTEST MC45580



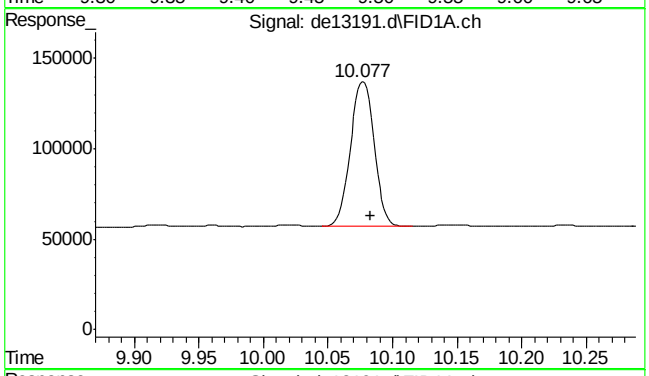
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 101800
Conc: 0.94 µg/ml



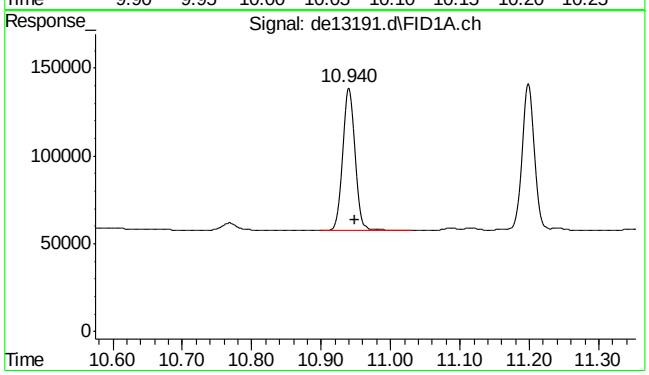
#10 anthracene

R.T.: 9.490 min
Delta R.T.: -0.008 min
Response: 96242
Conc: 0.96 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 103028
Conc: 0.95 µg/ml



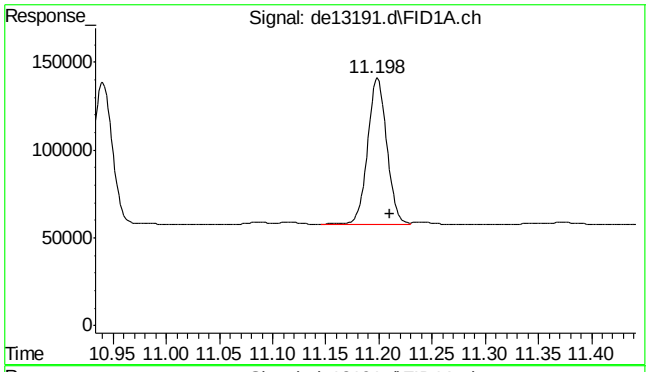
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 103521
Conc: 0.99 µg/ml

9.5.1

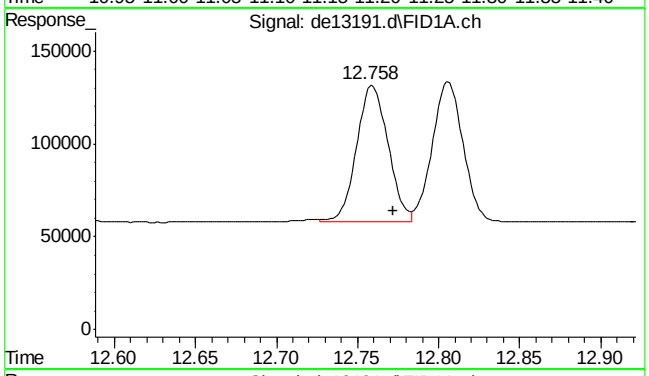
9

SGS ACCUTEST MC45580



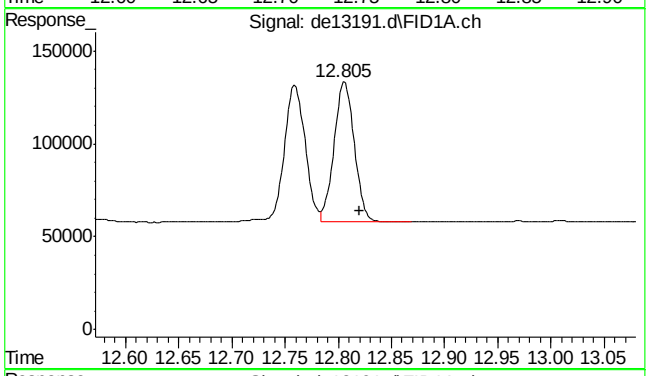
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 105548
Conc: 1.01 µg/ml



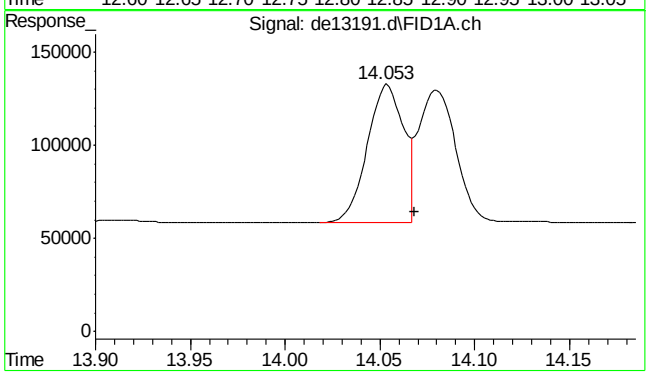
#14 benzo(a)anthracene

R.T.: 12.758 min
Delta R.T.: -0.013 min
Response: 100487
Conc: 1.02 µg/ml m



#15 chrysene

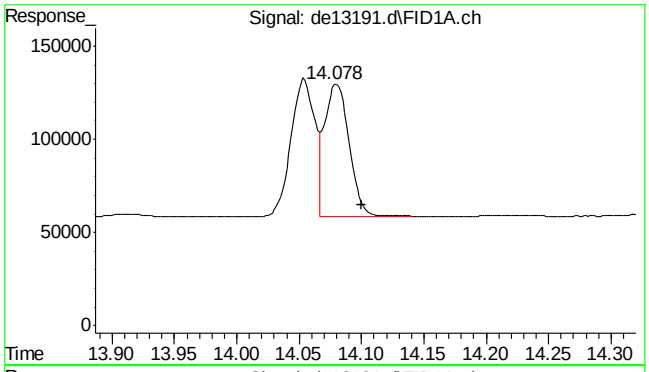
R.T.: 12.805 min
Delta R.T.: -0.015 min
Response: 100279
Conc: 1.01 µg/ml m



#16 benzo(B)fluoranthene

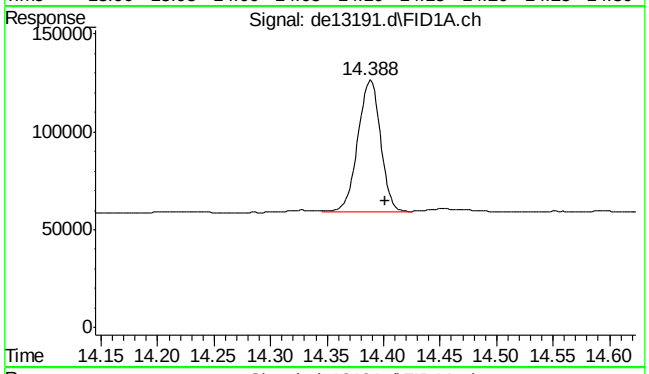
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 100827
Conc: 0.99 µg/ml m

SGS ACCUTEST MC45580



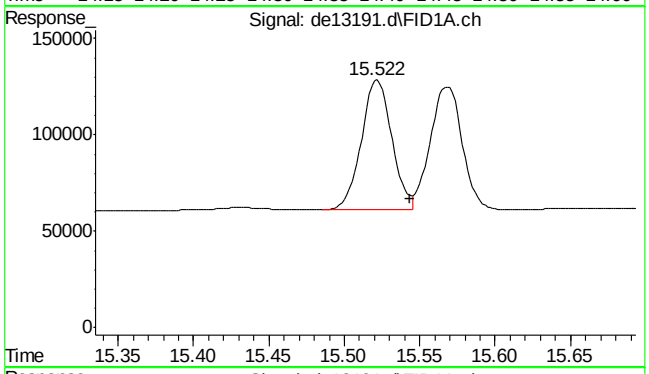
#17 benzo(k)fluoranthene

R.T.: 14.078 min
Delta R.T.: -0.022 min
Response: 95833
Conc: 0.98 µg/ml m



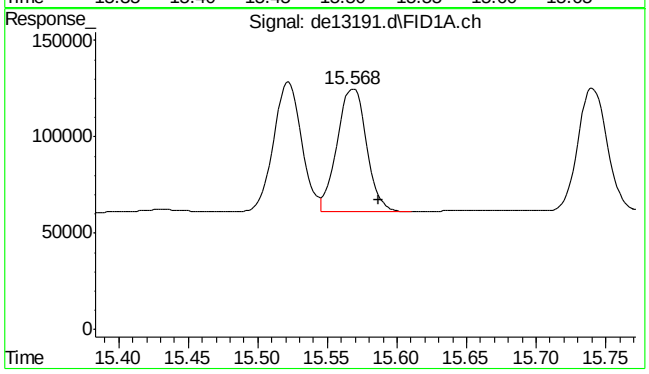
#18 benzo(a)pyrene

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

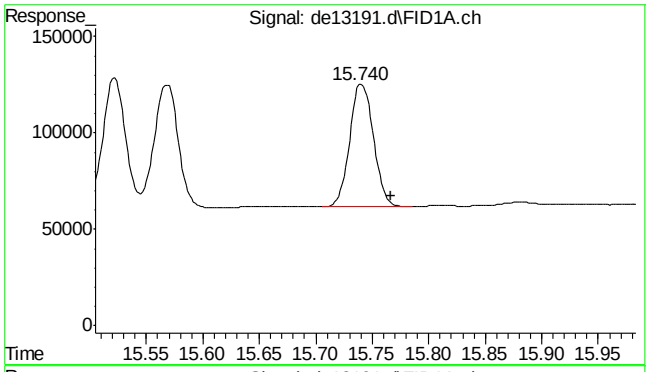
R.T.: 15.522 min
Delta R.T.: -0.022 min
Response: 94483
Conc: 0.97 µg/ml



#20 dibenzo(ah)anthracene

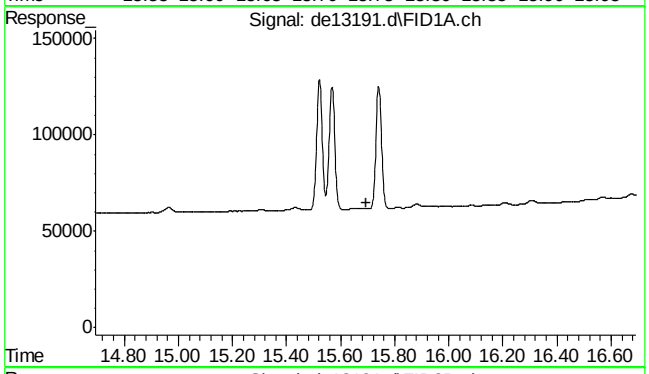
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 92785
Conc: 0.99 µg/ml

SGS ACCUTEST MC45580



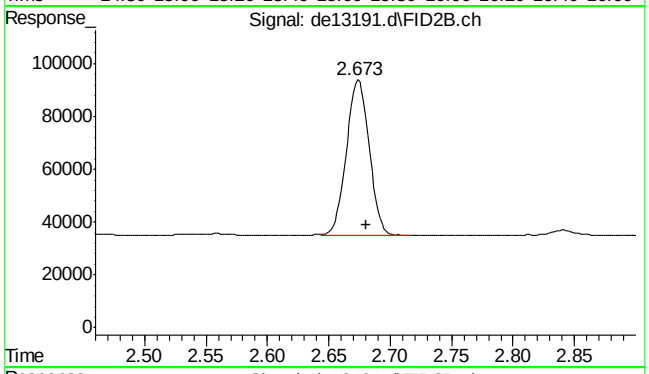
#21 benzo(ghi)perylene

R.T.: 15.740 min
Delta R.T.: -0.027 min
Response: 93453
Conc: 0.99 µg/ml



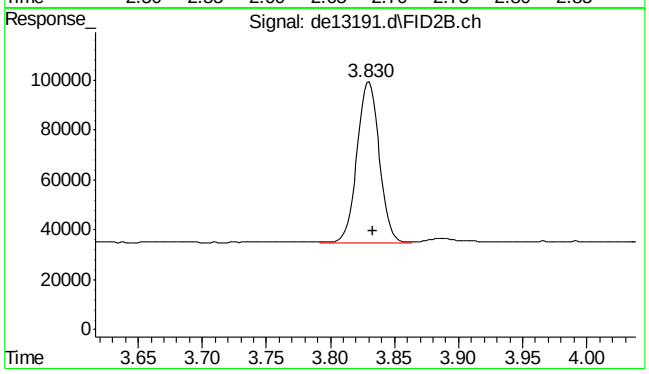
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

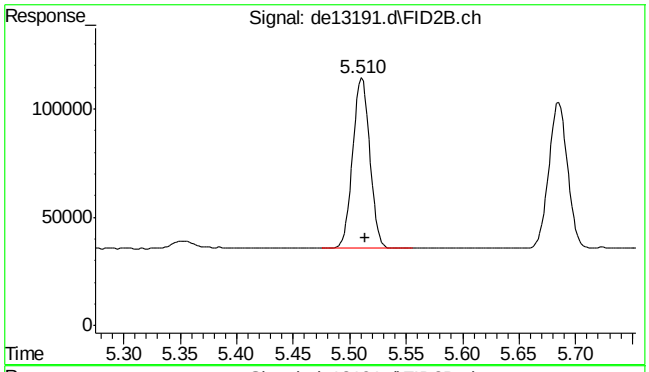
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 76082
Conc: 1.05 µg/ml m



#26 c-10

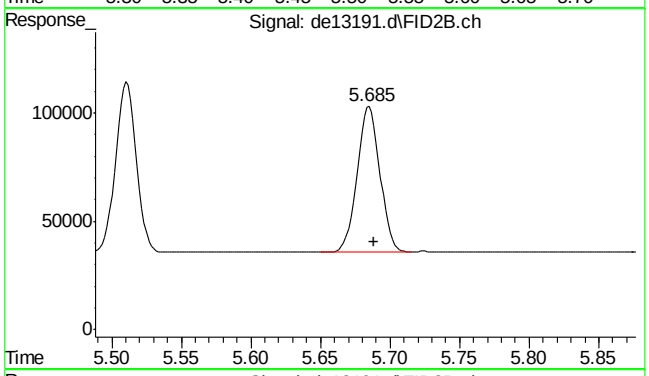
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 77300
Conc: 1.06 µg/ml m

SGS ACCUTEST MC45580



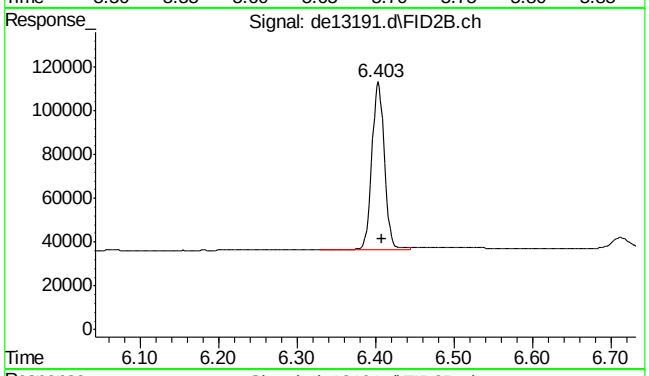
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 81982
Conc: 1.07 µg/ml



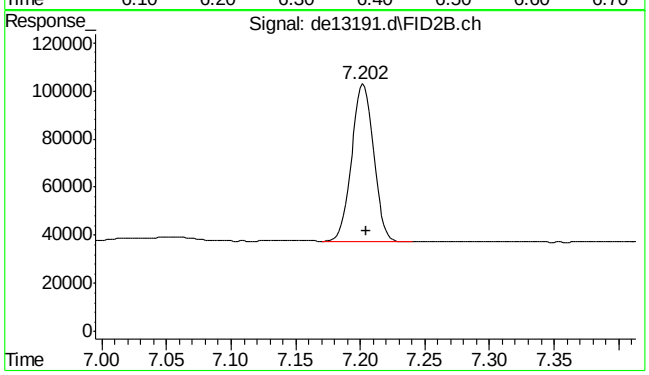
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 76748
Conc: 1.06 µg/ml



#29 2-methylnaphthalene #2

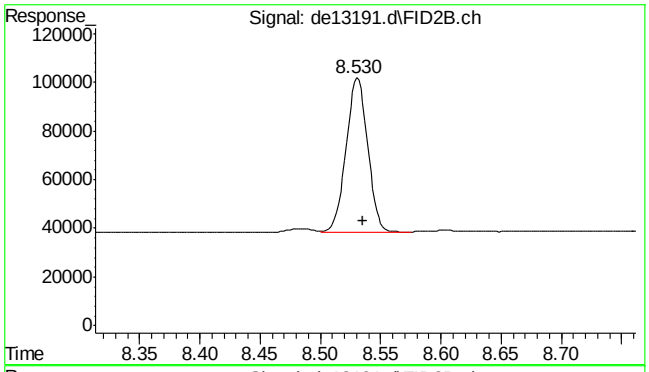
R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 85696
Conc: 1.08 µg/ml



#30 c-14

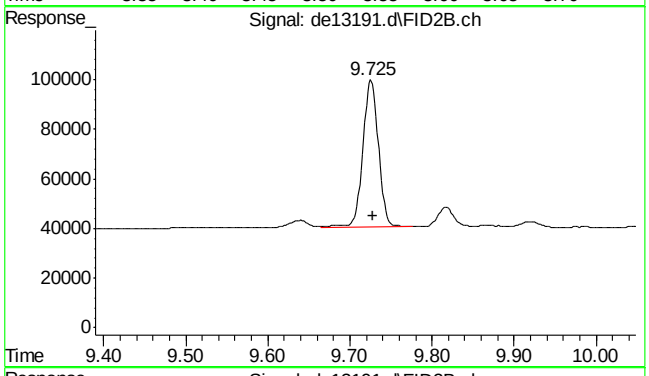
R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 77909
Conc: 1.08 µg/ml

SGS ACCUTEST MC45580



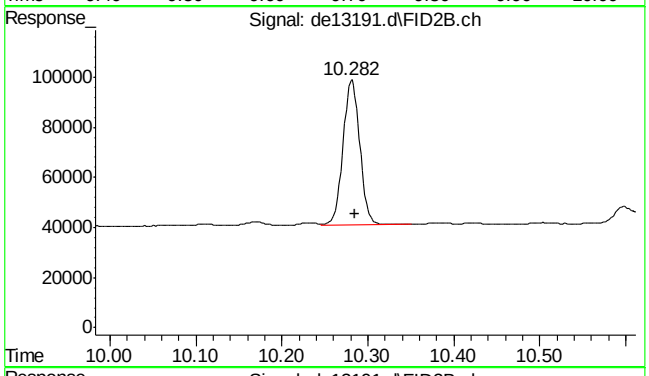
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 78733
Conc: 1.10 µg/ml



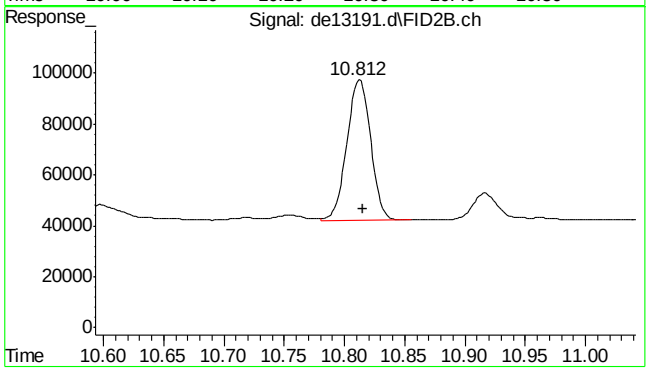
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 77956
Conc: 1.10 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 78108
Conc: 1.16 µg/ml



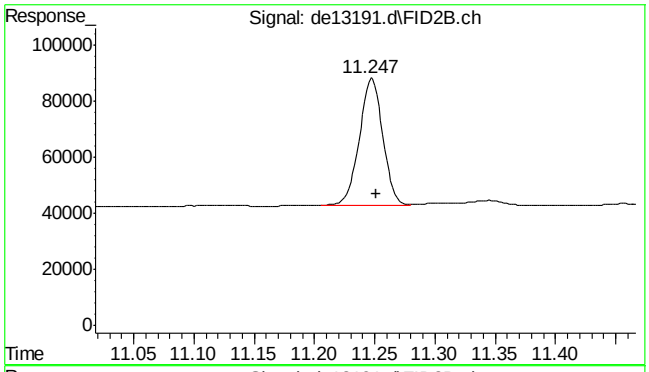
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 75638
Conc: 1.13 µg/ml

9.5.1

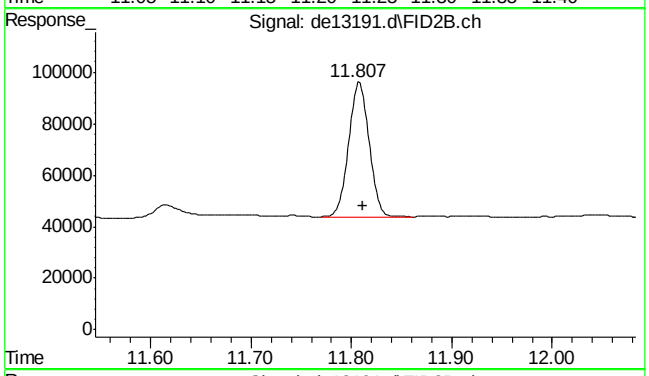
9

SGS ACCUTEST MC45580



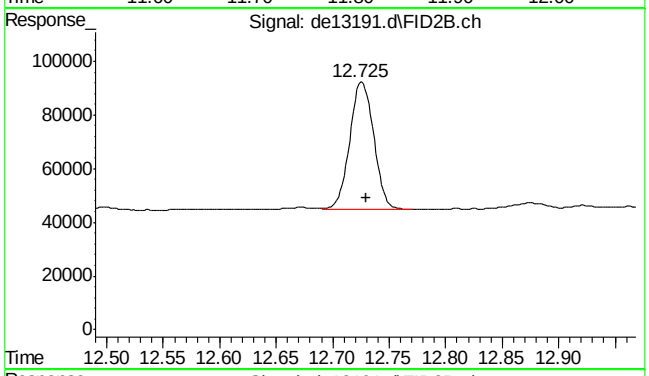
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 61176
Conc: 1.13 µg/ml



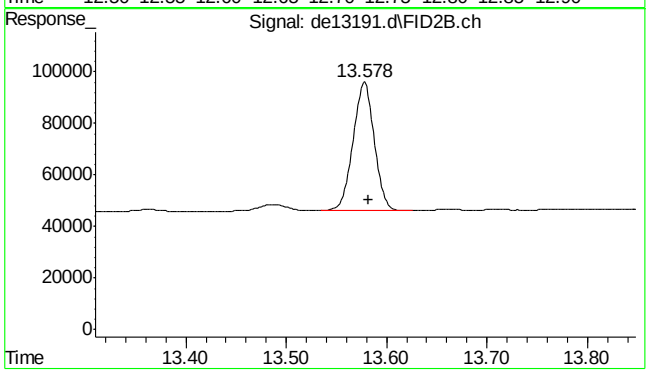
#36 c-22

R.T.: 11.807 min
Delta R.T.: -0.005 min
Response: 73192
Conc: 1.10 µg/ml



#37 c-24

R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 69851
Conc: 1.09 µg/ml



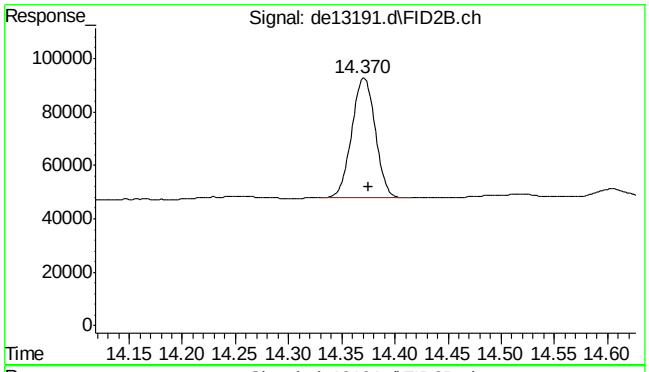
#38 c-26

R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 72850
Conc: 1.10 µg/ml

9.5.1

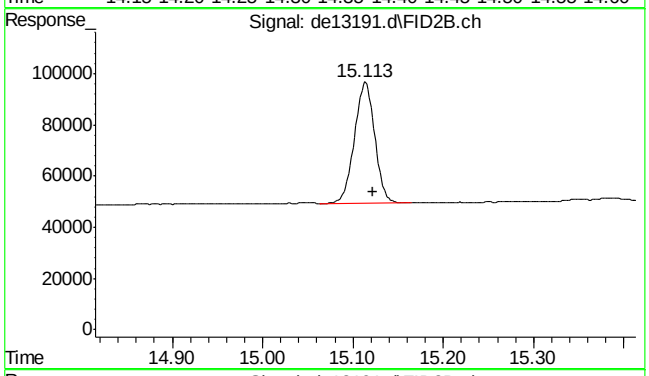
9

SGS ACCUTEST MC45580



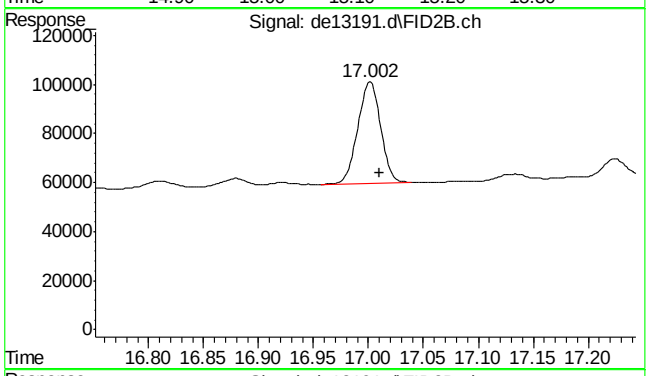
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 69399
Conc: 1.06 µg/ml



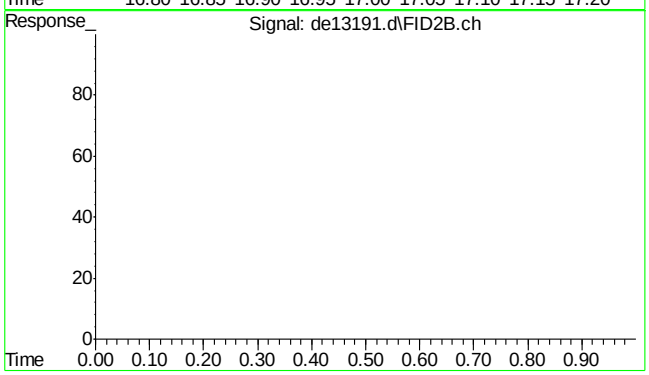
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 74594
Conc: 1.14 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 60516
Conc: 0.97 µg/ml m



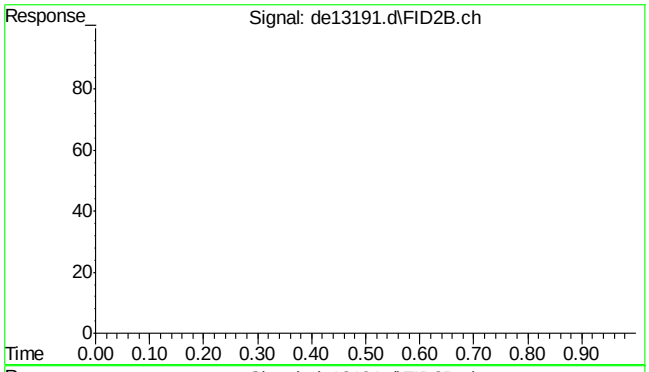
#42 bht

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

9.5.1

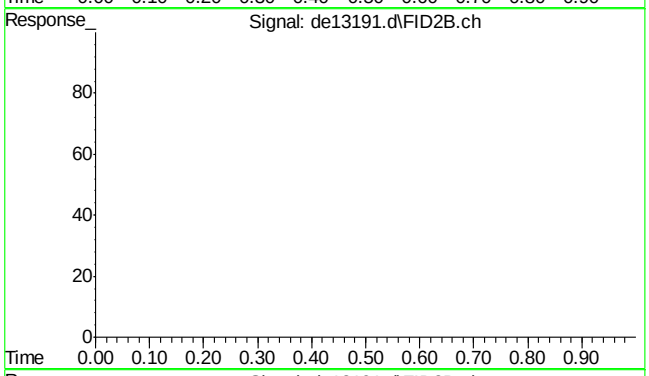
9

SGS ACCUTEST MC45580



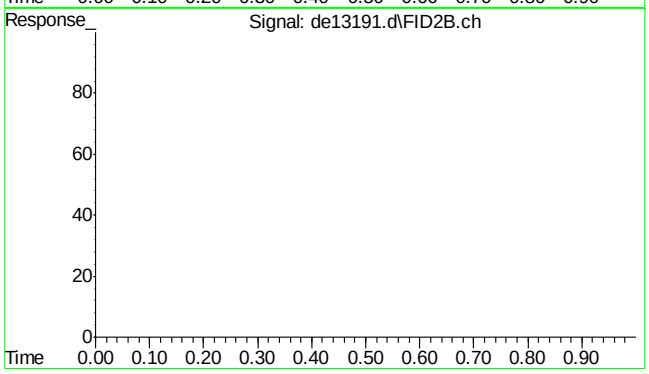
#43 bht

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.

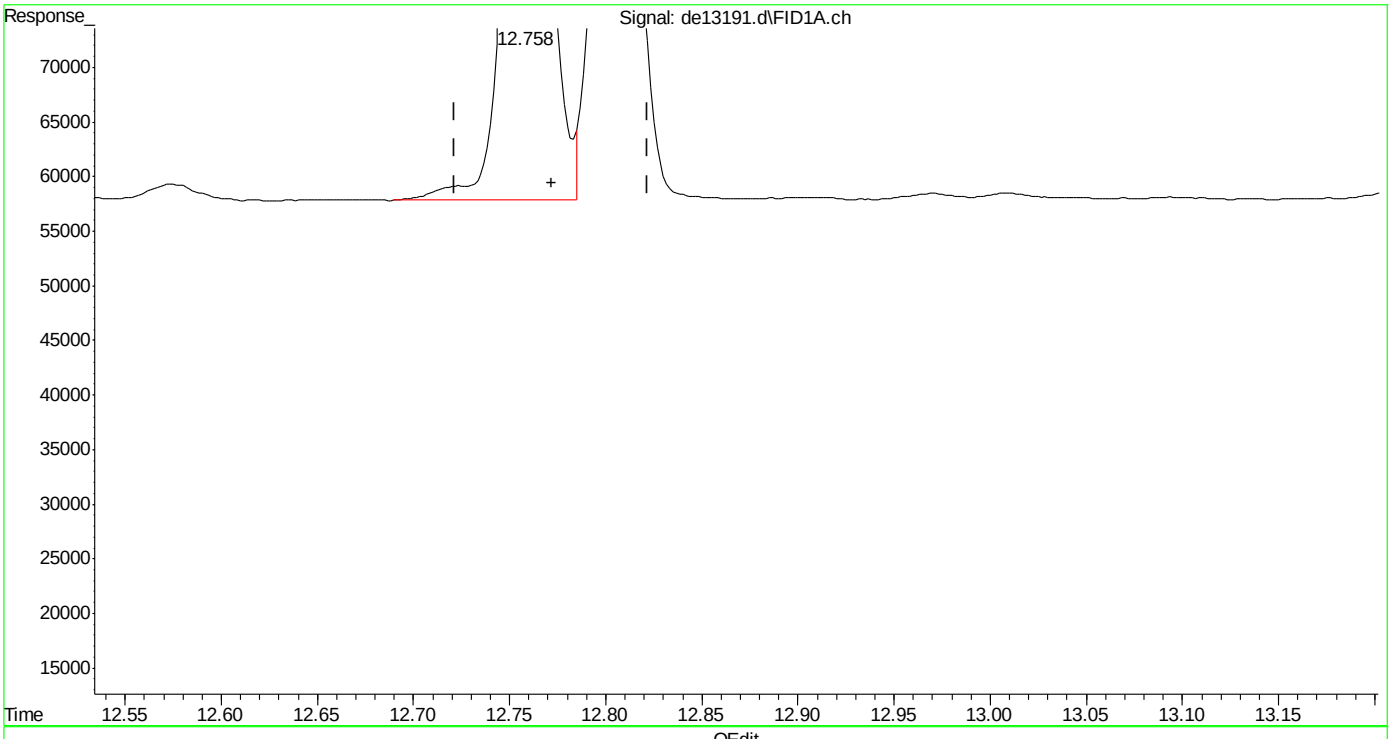
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.044 µg/ml
response 102644

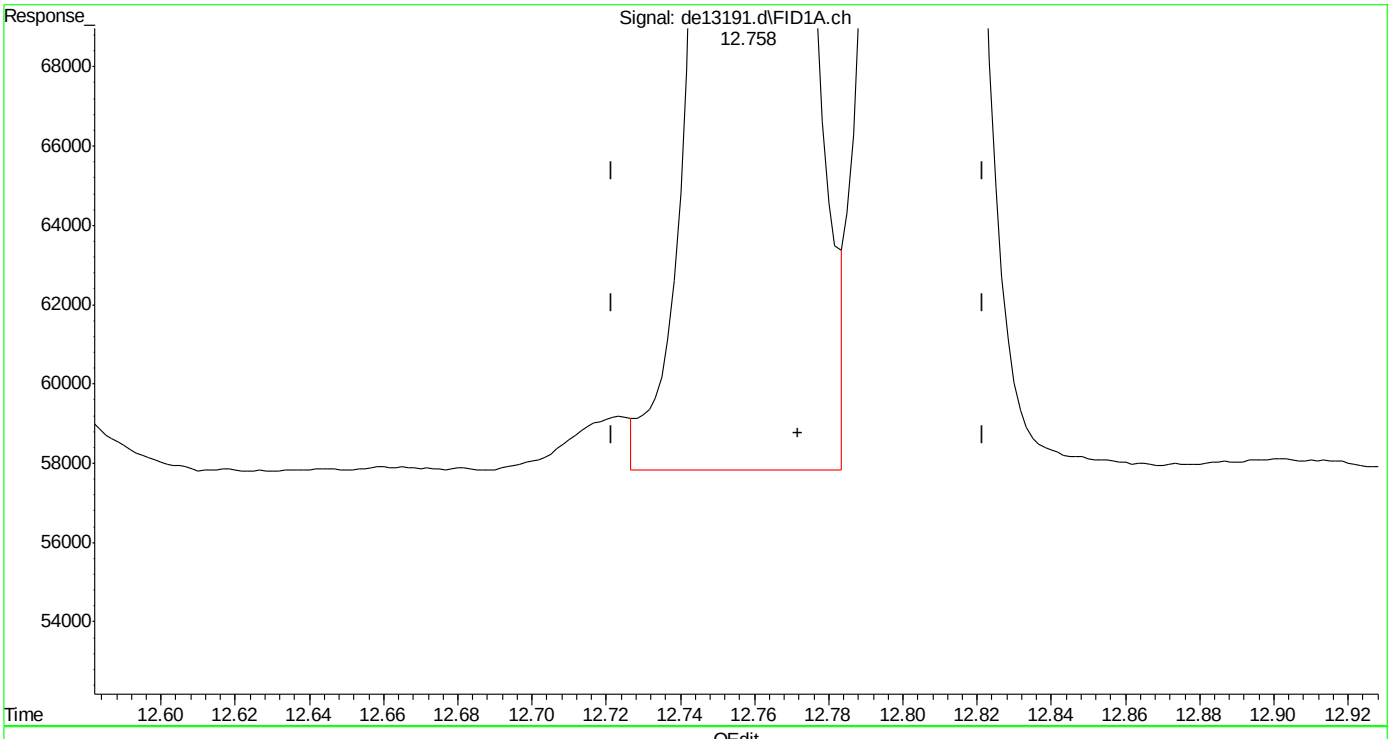
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:36:15 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.758min 1.022 µg/ml m
response 100487

(+) = Expected Retention Time

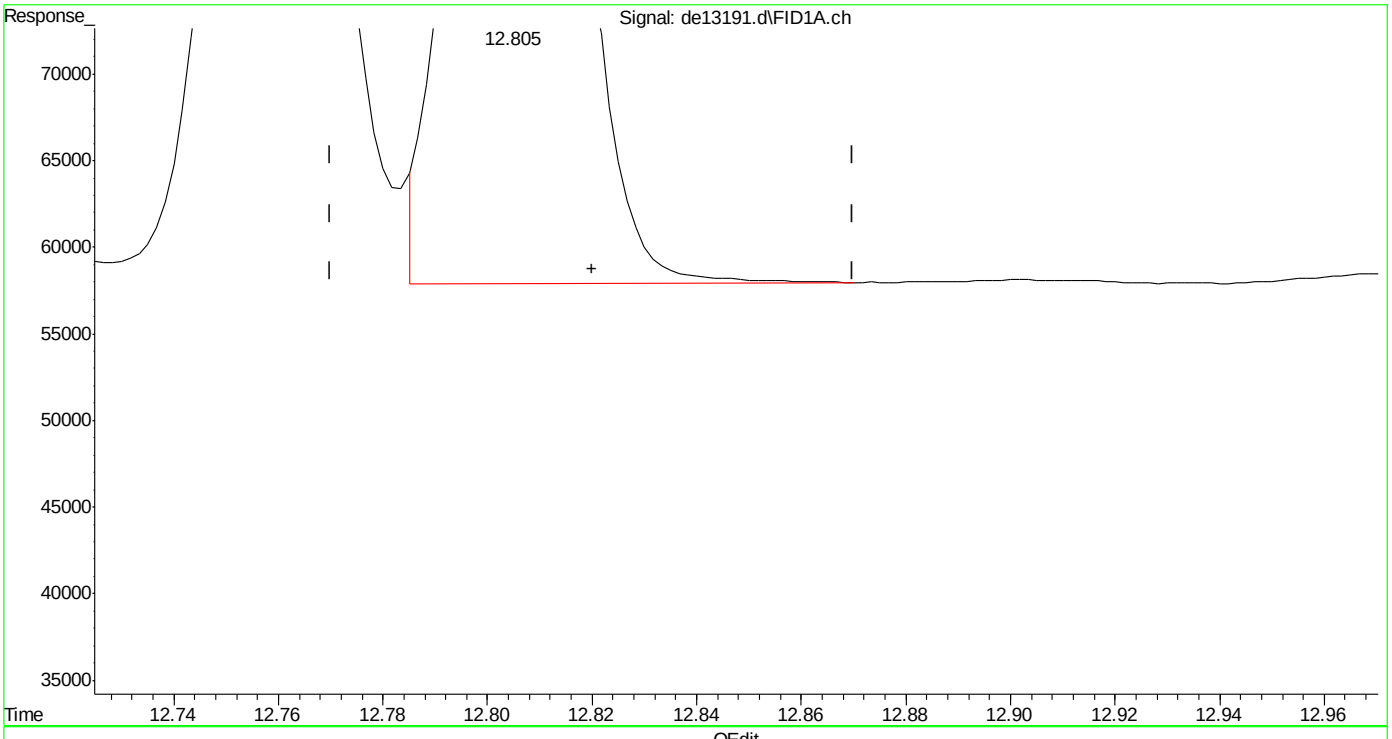
SGS ACCUTEST MC45580

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

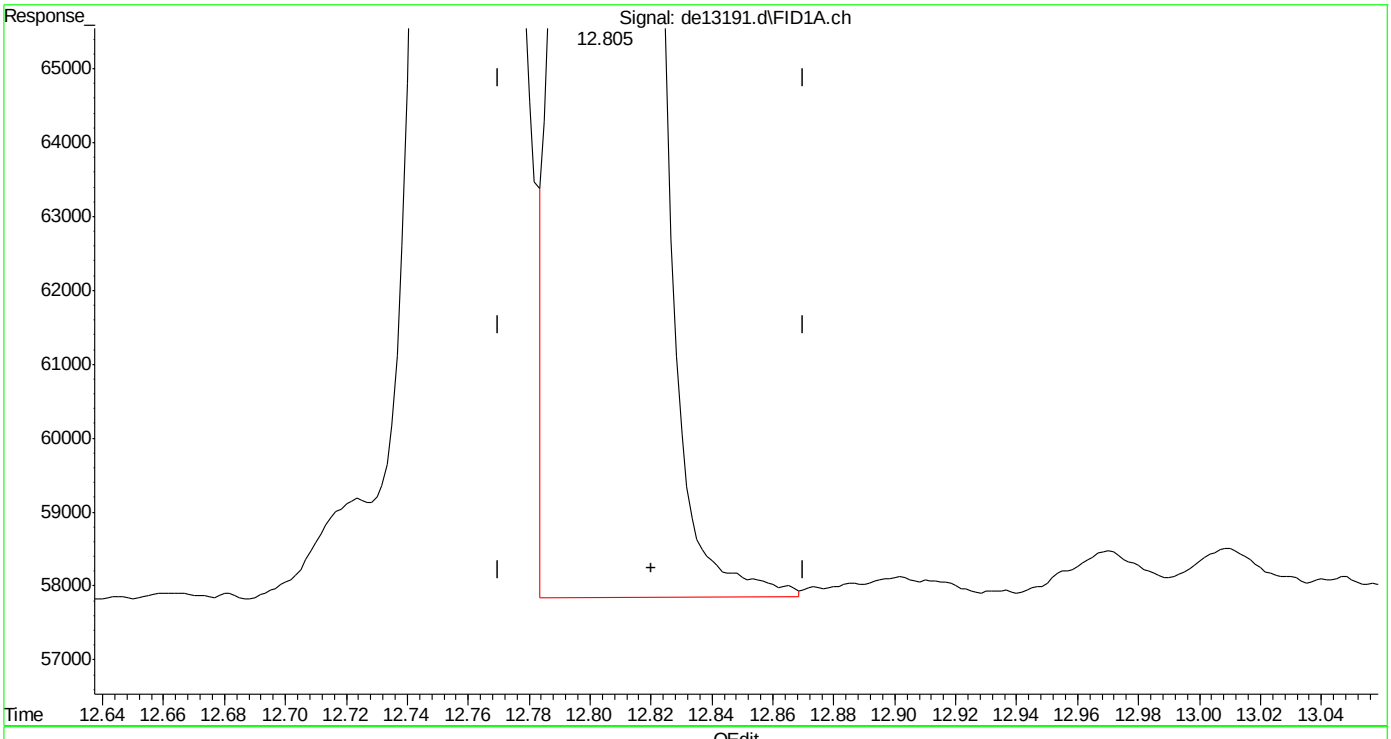
SGS ACCUTEST MC45580

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

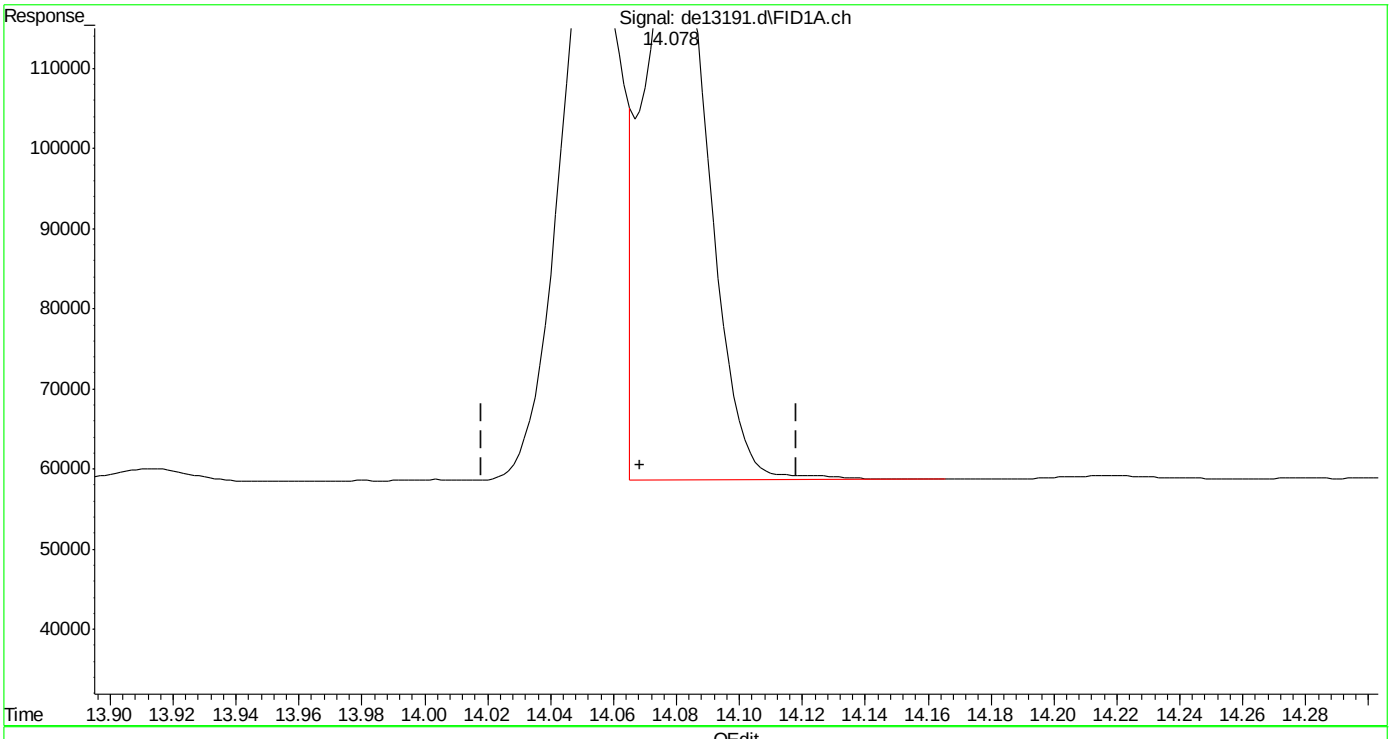
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.078min 0.983 µg/ml
response 100280

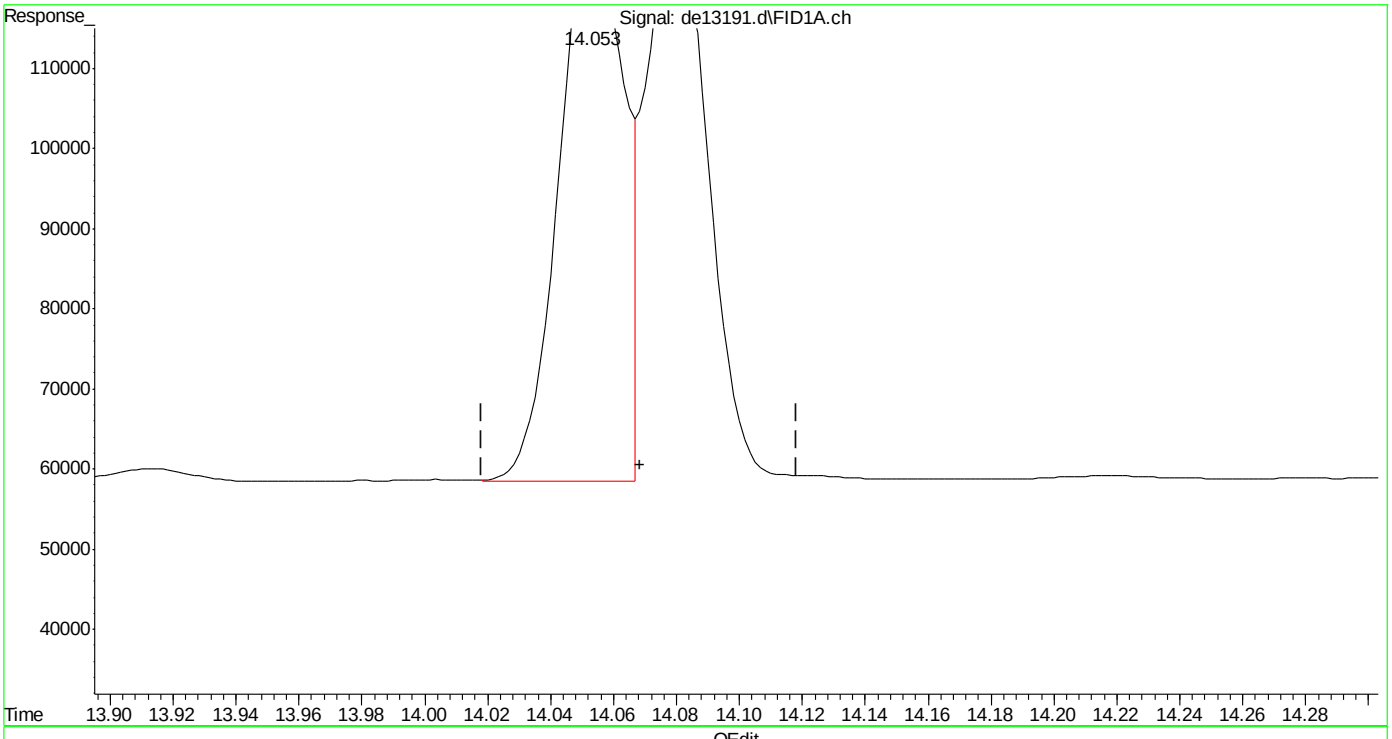
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 0.988 µg/ml m
response 100827

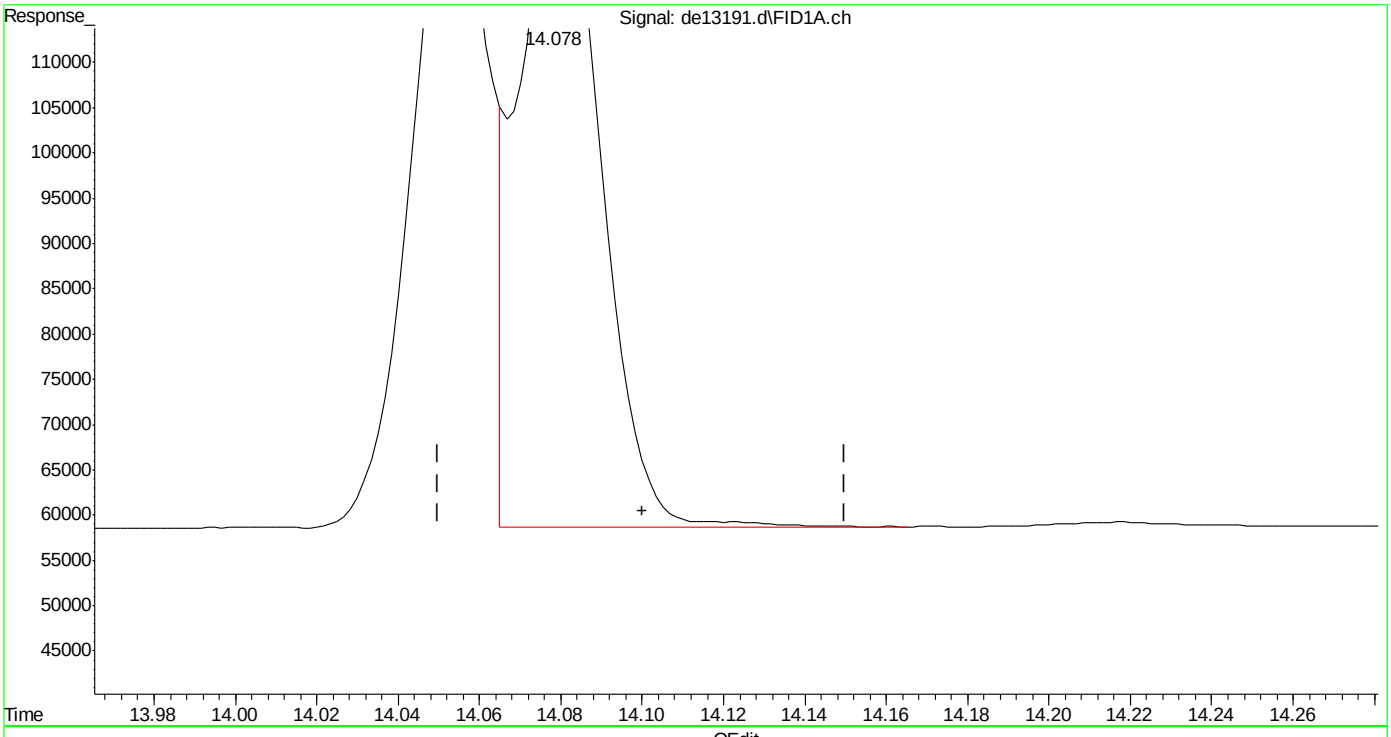
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.078min 1.024 µg/ml
response 100280

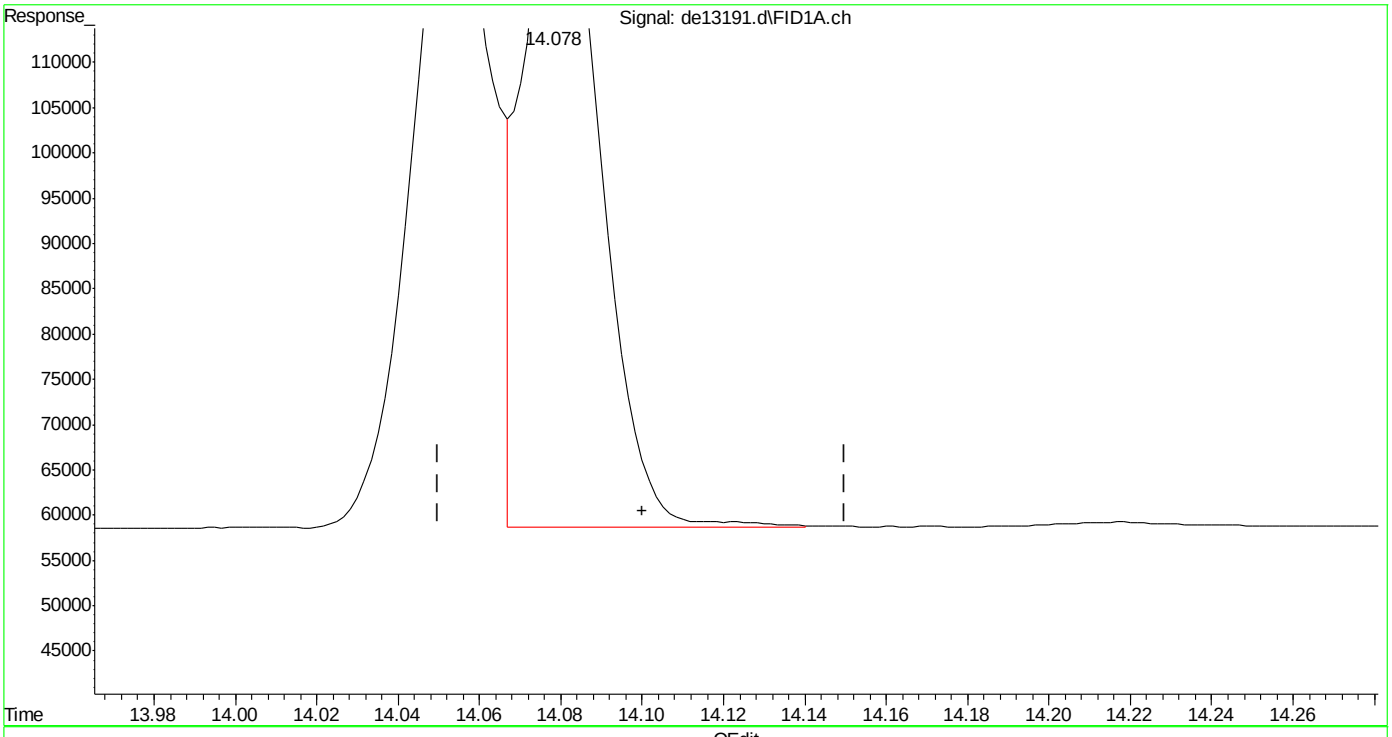
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13191.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:08 pm
Operator : thomasa
Sample : ic735-1
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:35:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:35:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.078min 0.978 µg/ml m
response 95833

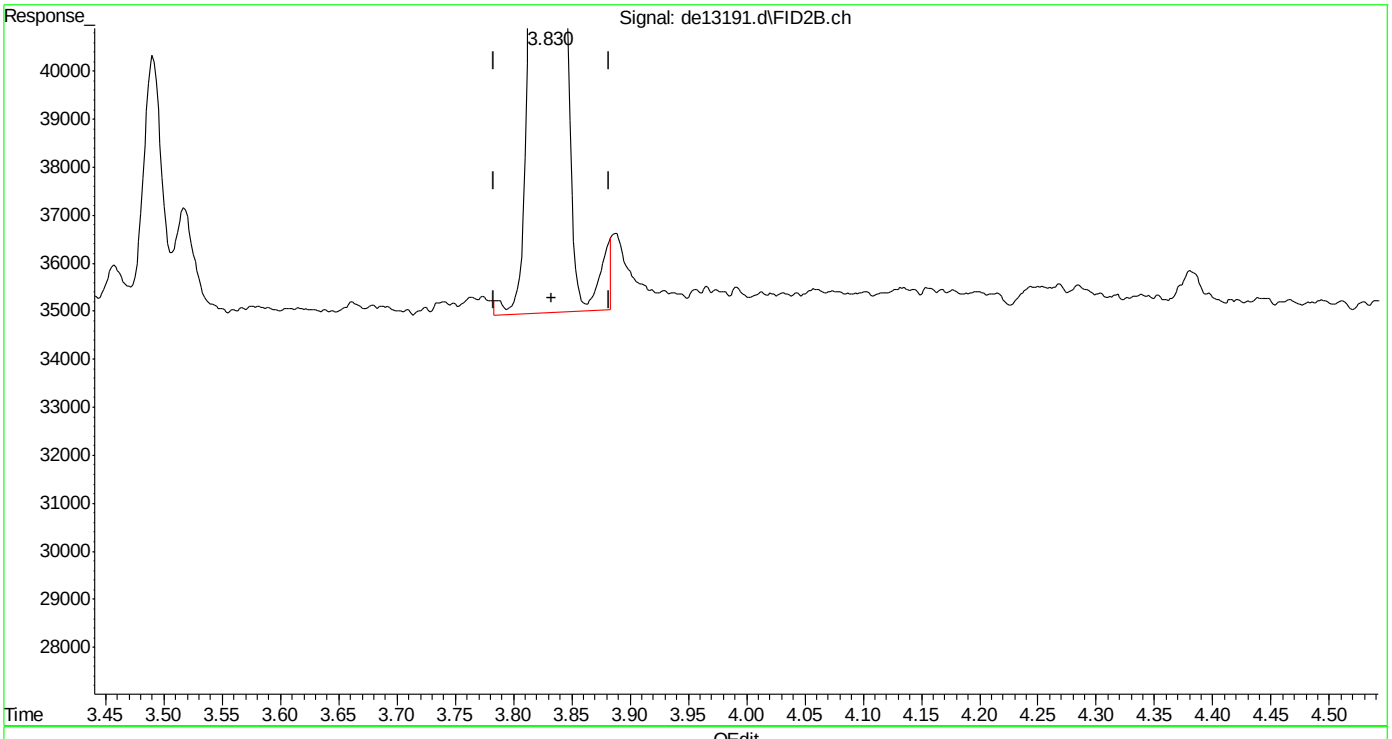
(+) = Expected Retention Time

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

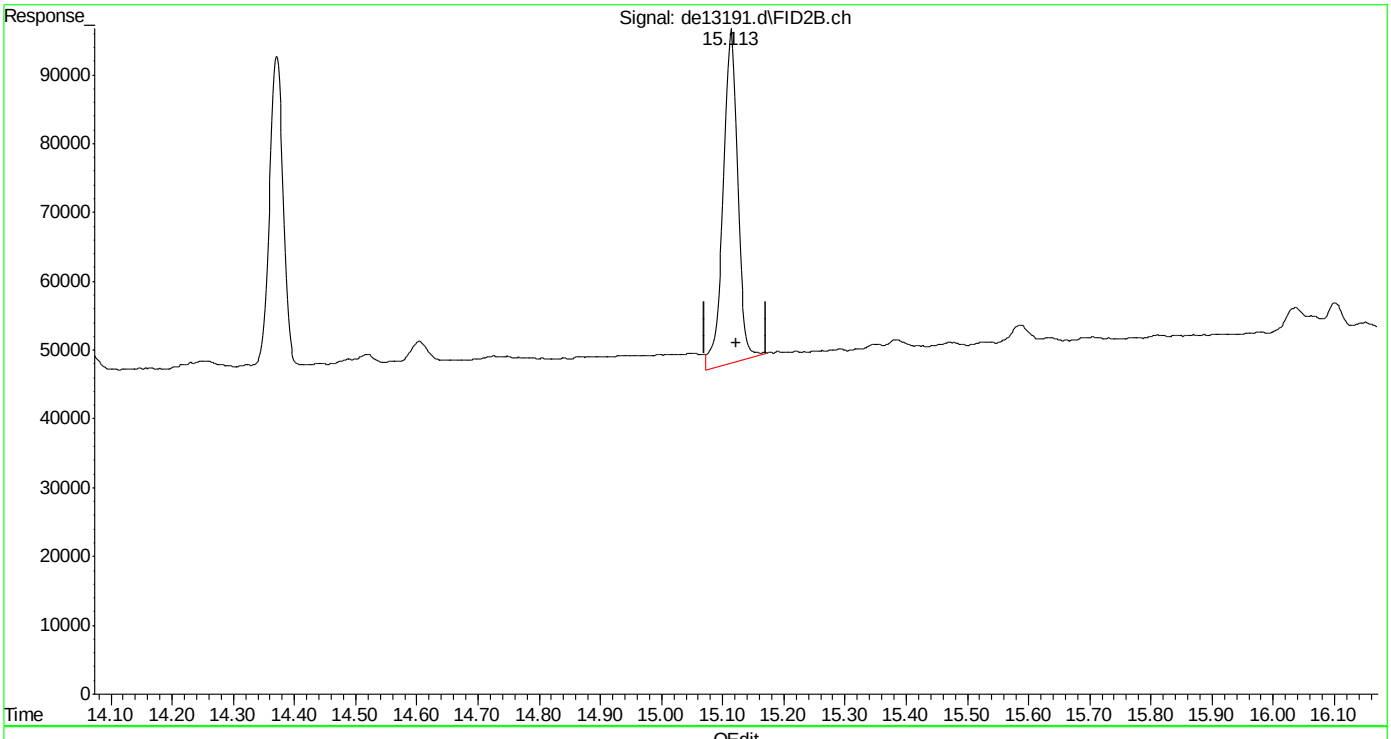
SGS ACCUTEST MC45580

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

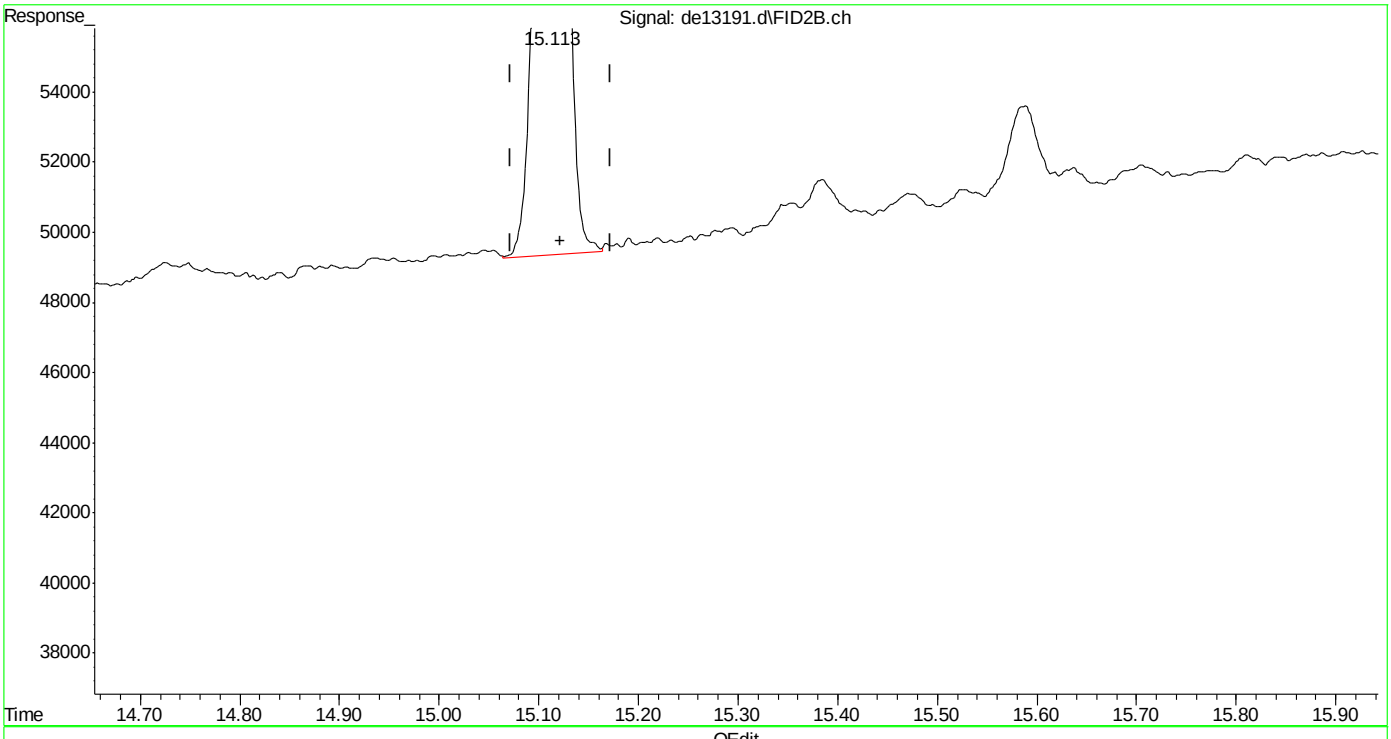
SGS ACCUTEST MC45580

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 MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	184769	1.881 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	9.40%
6) s 2-bromonaphthalene	7.532	125964	1.890 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	9.45%
11) s o-terphenyl	10.077	208029	1.952 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	9.76%
35) s 1-chlorooctadecane	11.247	119513	2.175 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	10.87%
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	3994043	2.778 µg/mlm
2) naphthalene	5.352	205575	1.860 µg/ml
3) 2-methylnaphthalene	6.248	205018	1.875 µg/ml
5) acenaphthylene	7.365	202426	1.881 µg/ml
7) acenaphthene	7.607	207471	1.893 µg/ml
8) fluorene	8.252	204542	1.903 µg/ml
9) phenanthrene	9.433	207031	1.943 µg/ml
10) anthracene	9.492	199105	2.019 µg/ml
12) fluoranthene	10.940	203479	1.960 µg/ml
13) pyrene	11.198	206224	1.967 µg/ml
14) benzo(a)anthracene	12.760	197822	2.010 µg/mlm
15) chrysene	12.807	197927	1.992 µg/mlm
16) benzo(B)fluoranthene	14.053	197572	1.943 µg/mlm
17) benzo(k)fluoranthene	14.082	193855	1.989 µg/mlm
18) benzo(a)pyrene	14.387	184685	1.912 µg/ml
19) indeno(1,2,3-cd)pyrene	15.523	186820	1.909 µg/ml
20) dibenzo(ah)anthracene	15.568	185980	1.983 µg/ml
21) benzo(ghi)perylene	15.742f	184915	1.960 µg/ml
25) h c-9	2.680	157422	2.139 µg/mlm
26) h c-10	3.833	158649	2.139 µg/mlm
27) naphthalene #2	5.510	169071	2.176 µg/ml
28) c-12	5.685	157764	2.137 µg/ml
29) 2-methylnaphthalene #2	6.403	172009	2.148 µg/ml
30) c-14	7.202	157636	2.130 µg/ml
31) c-16	8.530	156773	2.123 µg/ml
32) c-18	9.725	154646	2.108 µg/ml
33) c-19	10.282	151034	2.126 µg/ml
34) c-20	10.812	148378	2.126 µg/ml
36) c-22	11.808	146070	2.124 µg/ml
37) c-24	12.725	135579	2.049 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc Units
38)		c-26	13.577	142920	2.087 µg/ml
39)		c-28	14.370	137233	2.060 µg/ml
40)	h	c-30	15.122	139197	2.037 µg/mlm
41)	h	c-36	17.010	119416	1.930 µg/mlm

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

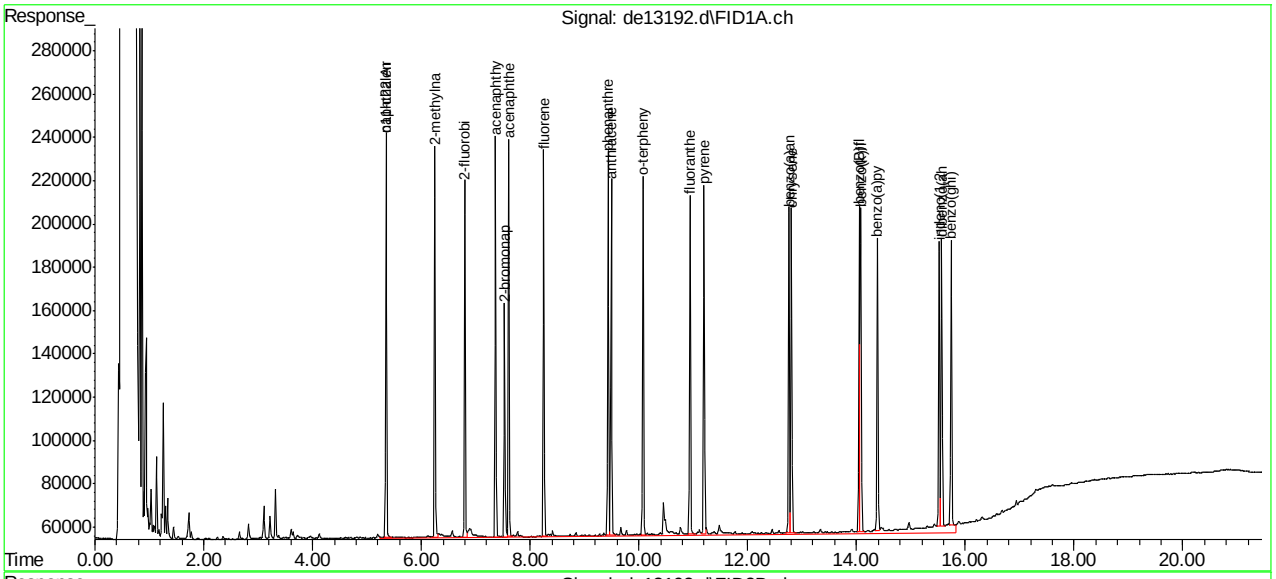
SGS ACCUTEST MC45580

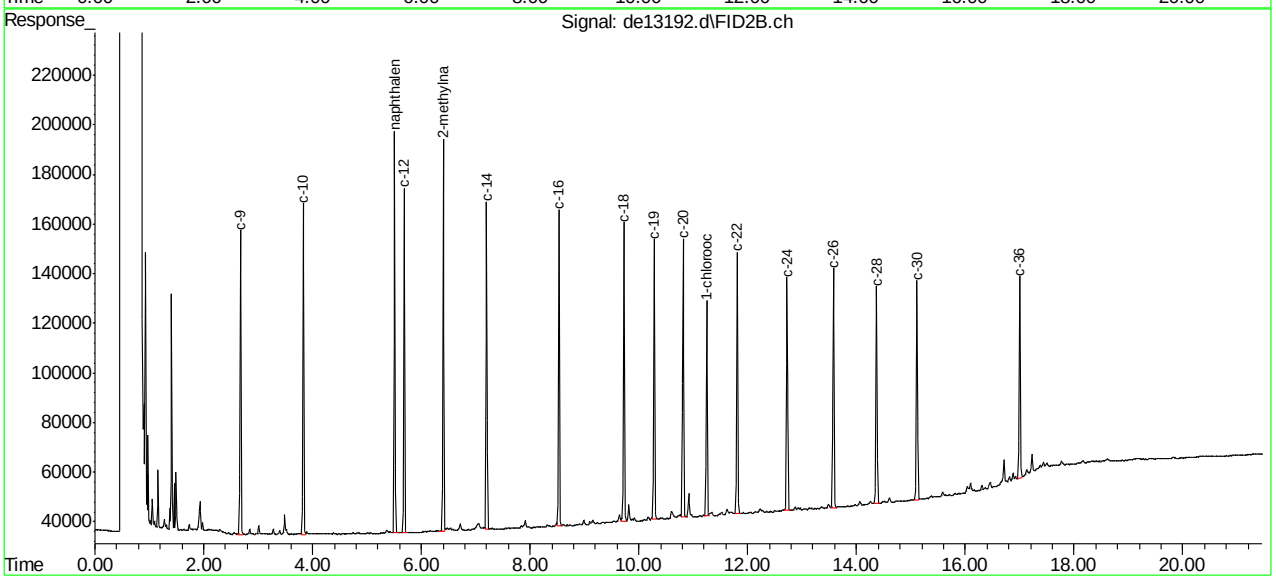
Quantitation Report (QT Reviewed)

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

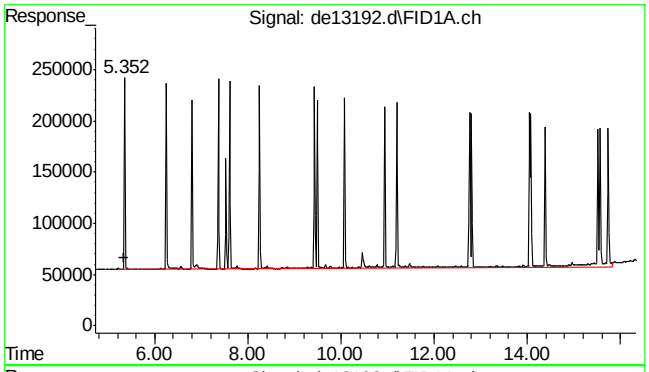
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:41:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



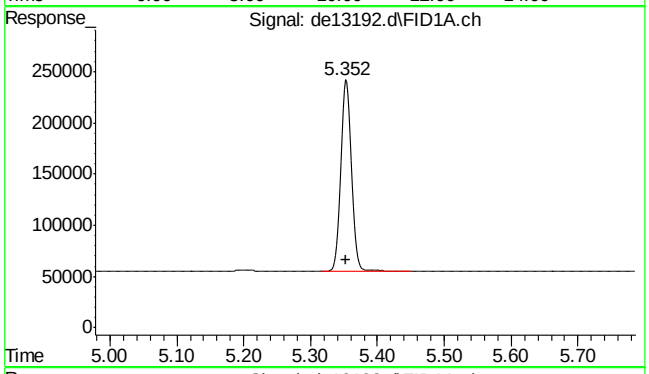


SGS ACCUTEST MC45580



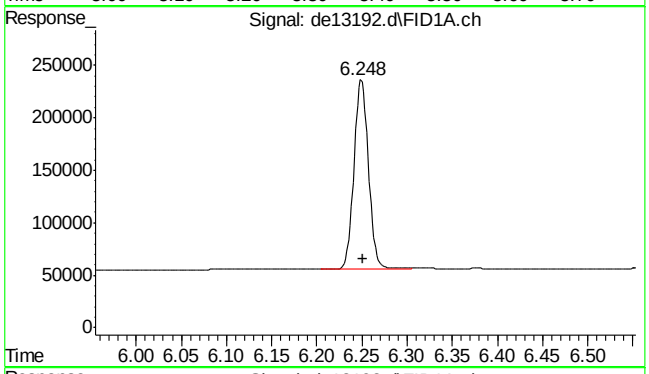
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 3994043
Conc: 2.78 µg/ml m



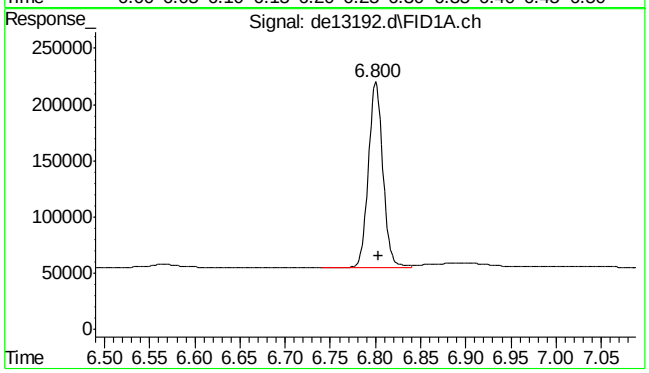
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 205575
Conc: 1.86 µg/ml



#3 2-methylnaphthalene

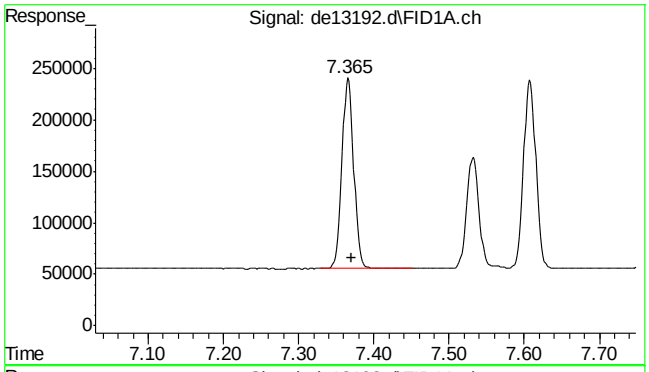
R.T.: 6.248 min
Delta R.T.: -0.003 min
Response: 205018
Conc: 1.88 µg/ml



#4 2-fluorobiphenyl

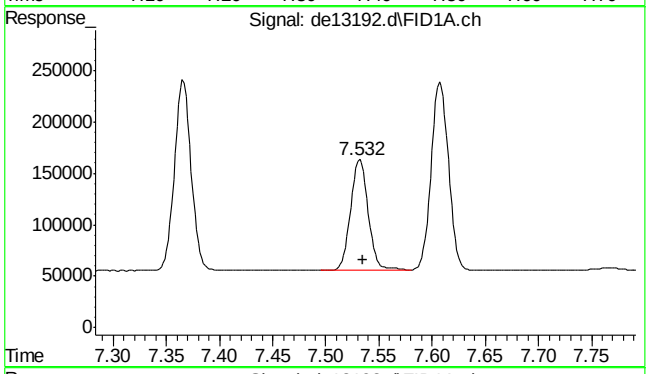
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 184769
Conc: 1.88 µg/ml

SGS ACCUTEST MC45580



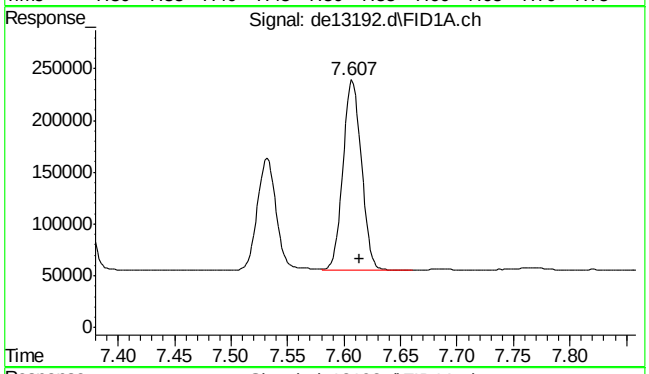
#5 acenaphthylene

R.T.: 7.365 min
Delta R.T.: -0.005 min
Response: 202426
Conc: 1.88 µg/ml



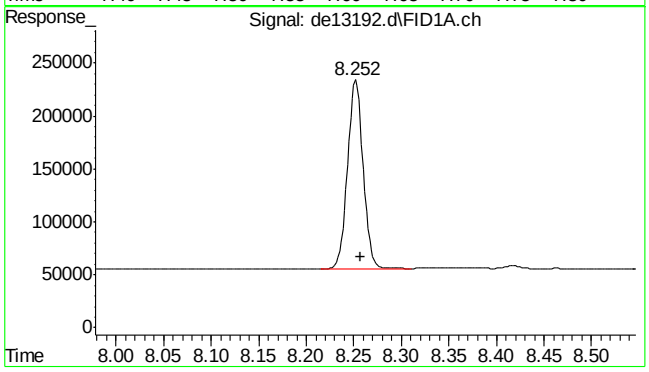
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 125964
Conc: 1.89 µg/ml



#7 acenaphthene

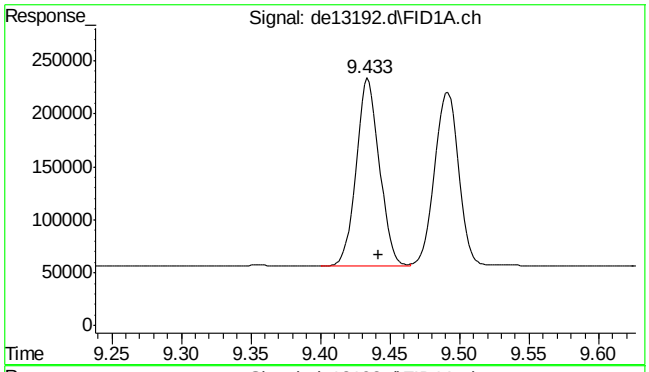
R.T.: 7.607 min
Delta R.T.: -0.007 min
Response: 207471
Conc: 1.89 µg/ml



#8 fluorene

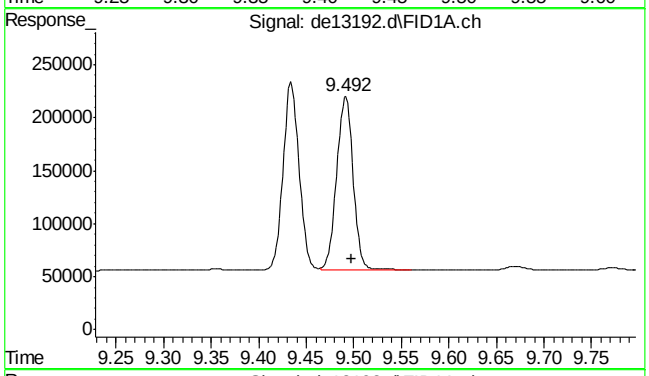
R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 204542
Conc: 1.90 µg/ml

SGS ACCUTEST MC45580



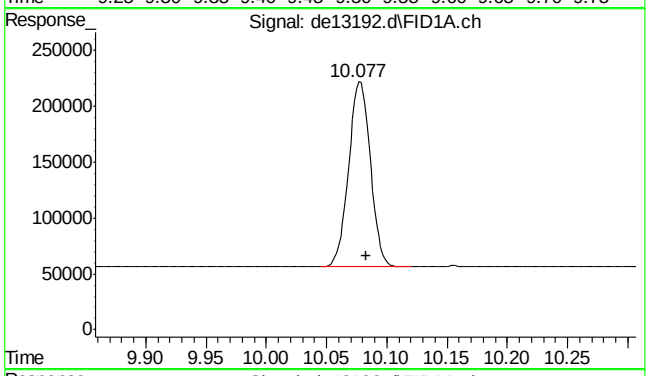
#9 phenanthrene

R.T.: 9.433 min
Delta R.T.: -0.008 min
Response: 207031
Conc: 1.94 µg/ml



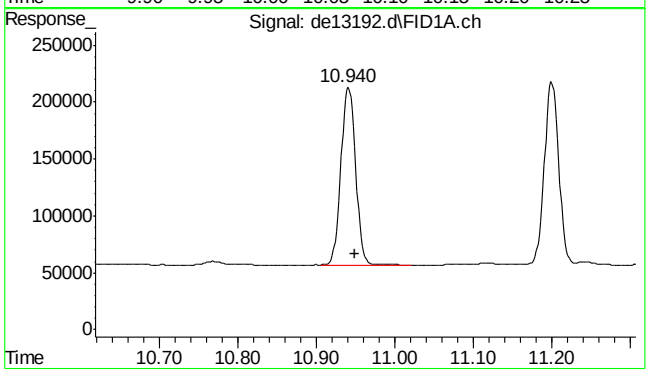
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 199105
Conc: 2.02 µg/ml



#11 o-terphenyl

R.T.: 10.077 min
Delta R.T.: -0.007 min
Response: 208029
Conc: 1.95 µg/ml



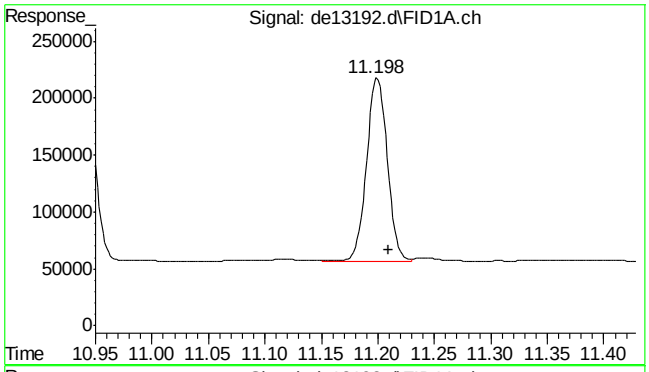
#12 fluoranthene

R.T.: 10.940 min
Delta R.T.: -0.008 min
Response: 203479
Conc: 1.96 µg/ml

9.5.2

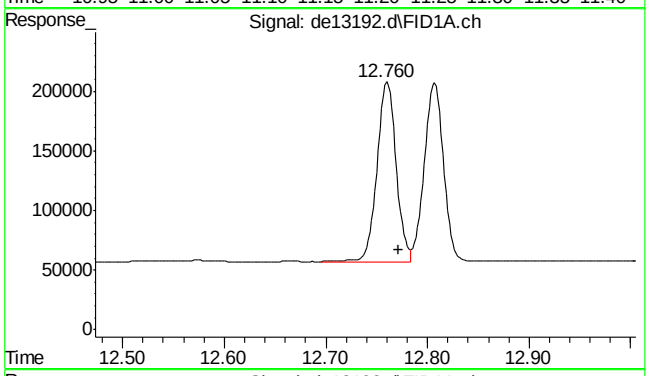
9

SGS ACCUTEST MC45580



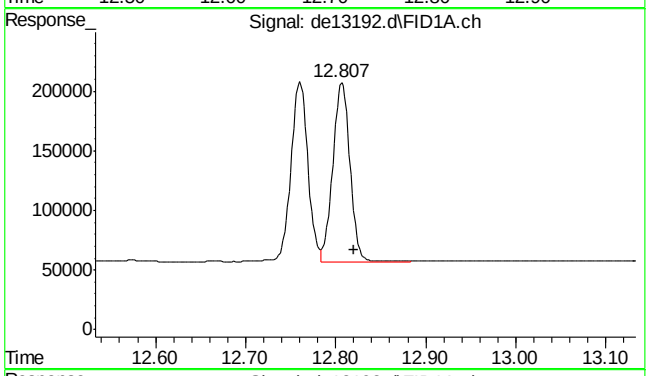
#13 pyrene

R.T.: 11.198 min
Delta R.T.: -0.012 min
Response: 206224
Conc: 1.97 µg/ml



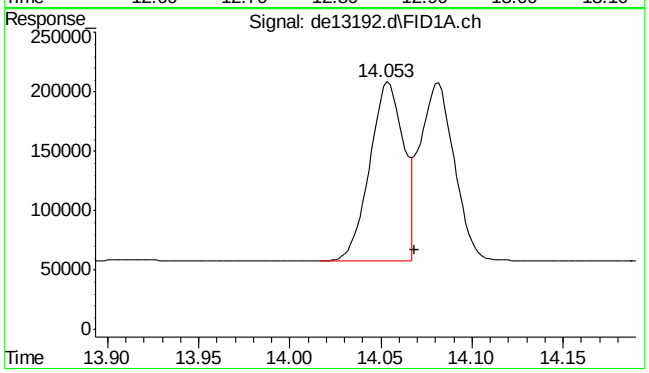
#14 benzo(a)anthracene

R.T.: 12.760 min
Delta R.T.: -0.012 min
Response: 197822
Conc: 2.01 µg/ml m



#15 chrysene

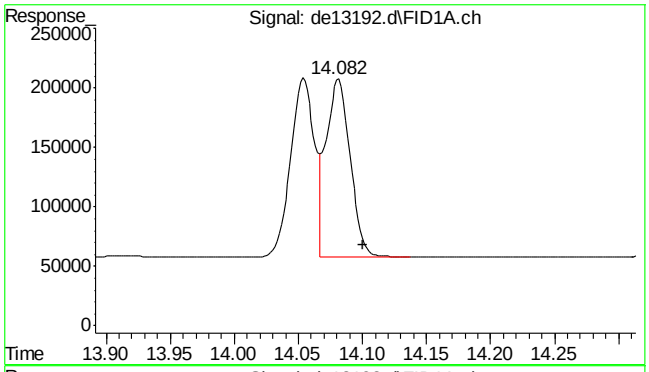
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 197927
Conc: 1.99 µg/ml m



#16 benzo(B)fluoranthene

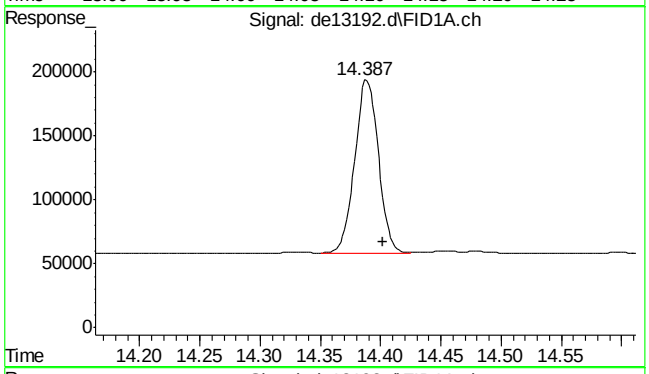
R.T.: 14.053 min
Delta R.T.: -0.015 min
Response: 197572
Conc: 1.94 µg/ml m

SGS ACCUTEST MC45580



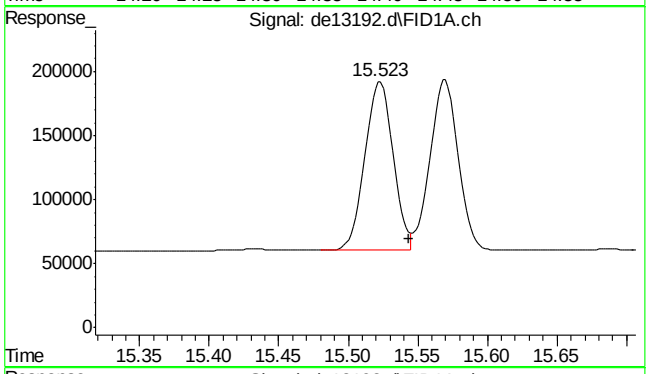
#17 benzo(k)fluoranthene

R.T.: 14.082 min
Delta R.T.: -0.018 min
Response: 193855
Conc: 1.99 µg/ml m



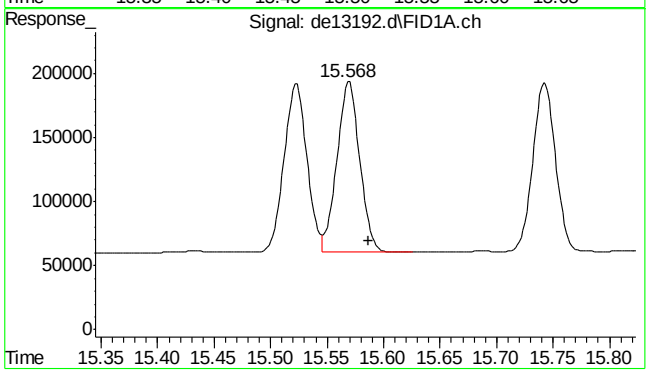
#18 benzo(a)pyrene

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

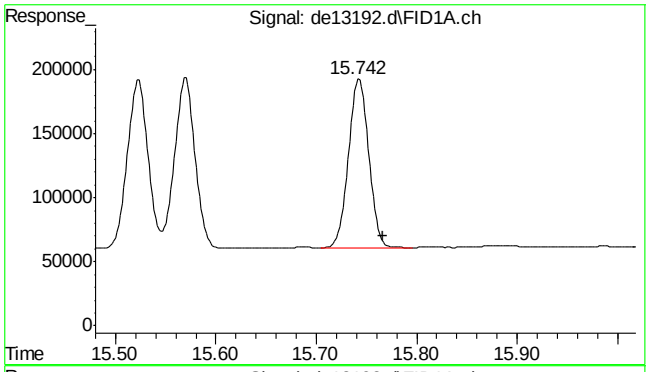
R.T.: 15.523 min
Delta R.T.: -0.020 min
Response: 186820
Conc: 1.91 µg/ml



#20 dibenzo(ah)anthracene

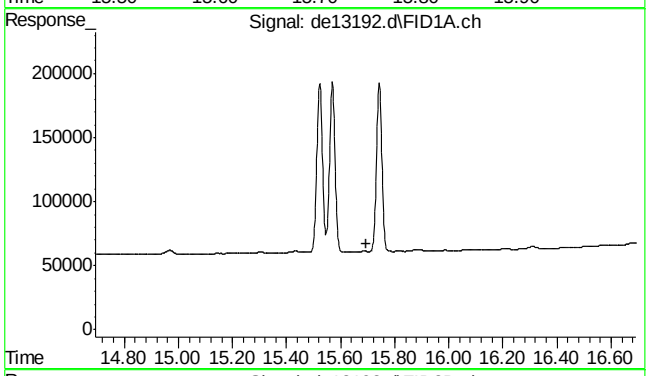
R.T.: 15.568 min
Delta R.T.: -0.018 min
Response: 185980
Conc: 1.98 µg/ml

SGS ACCUTEST MC45580



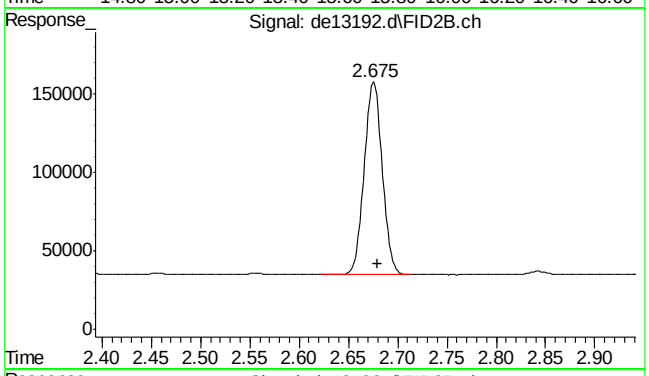
#21 benzo(ghi)perylene

R.T.: 15.742 min
Delta R.T.: -0.025 min
Response: 184915
Conc: 1.96 µg/ml



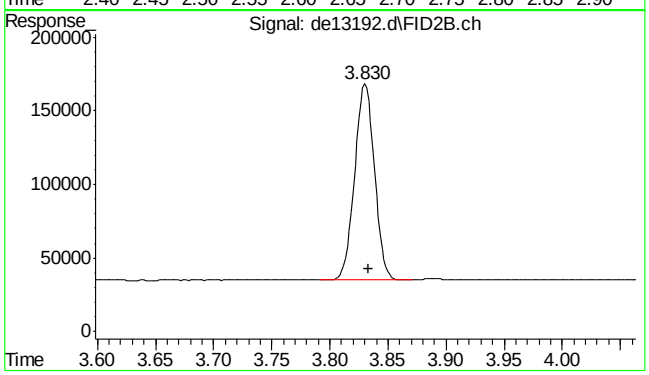
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

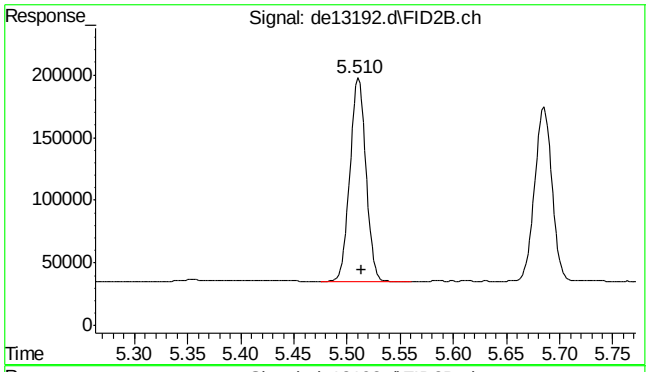
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 157422
Conc: 2.14 µg/ml m



#26 c-10

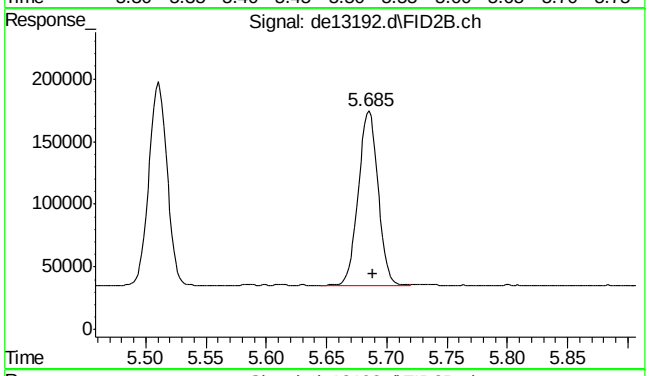
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 158649
Conc: 2.14 µg/ml m

SGS ACCUTEST MC45580



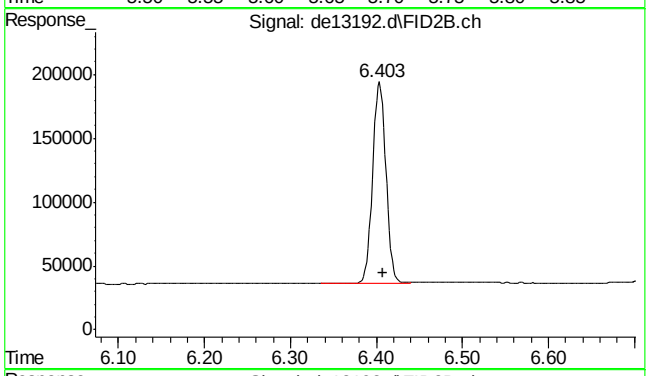
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 169071
Conc: 2.18 µg/ml



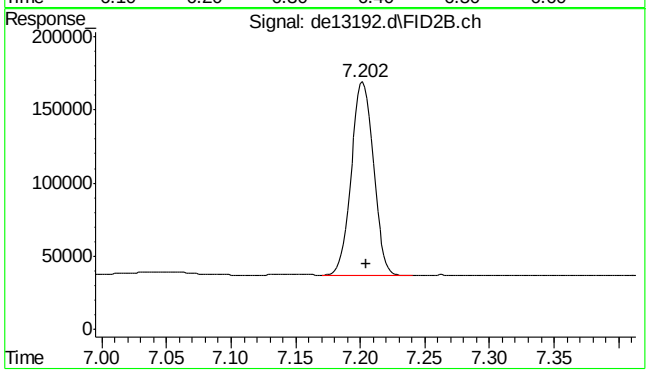
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 157764
Conc: 2.14 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 172009
Conc: 2.15 µg/ml



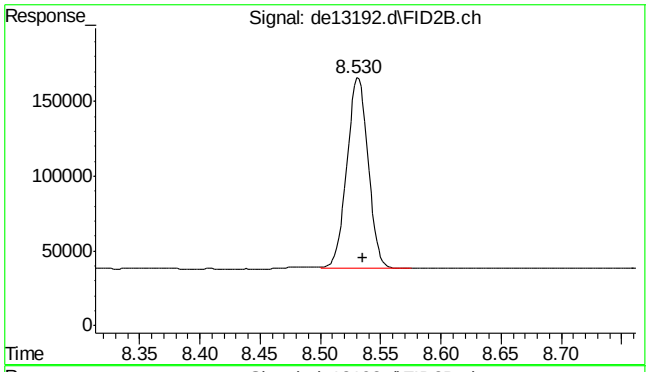
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 157636
Conc: 2.13 µg/ml

9.5.2

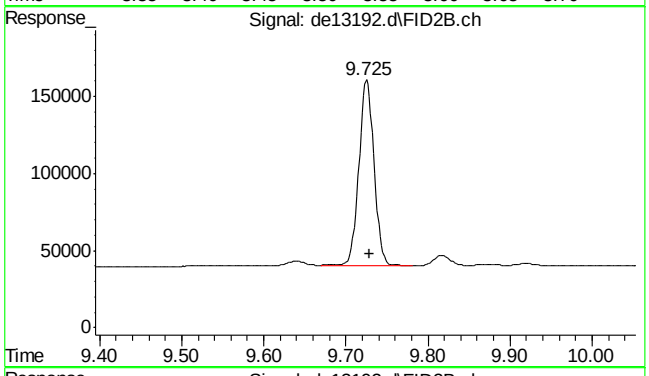
9

SGS ACCUTEST MC45580



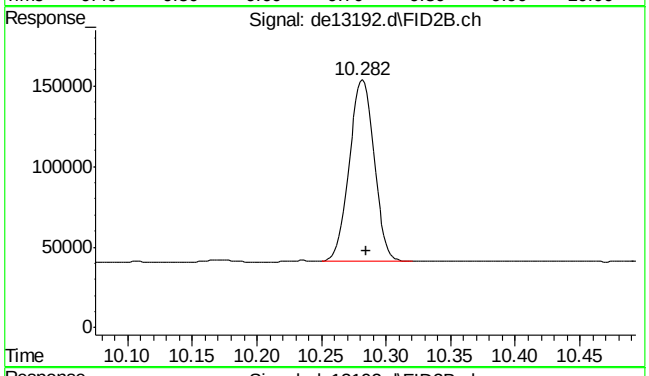
#31 c-16

R.T.: 8.530 min
Delta R.T.: -0.005 min
Response: 156773
Conc: 2.12 µg/ml



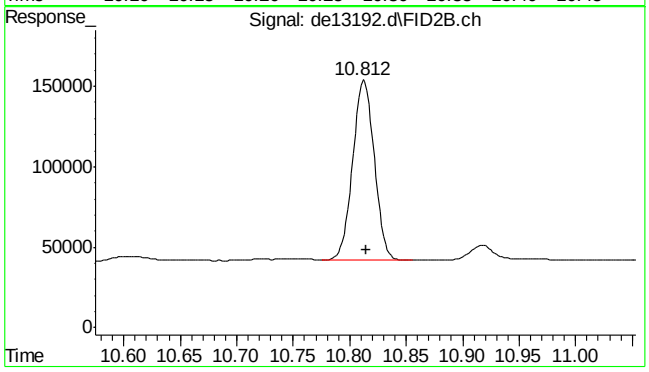
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 154646
Conc: 2.11 µg/ml



#33 c-19

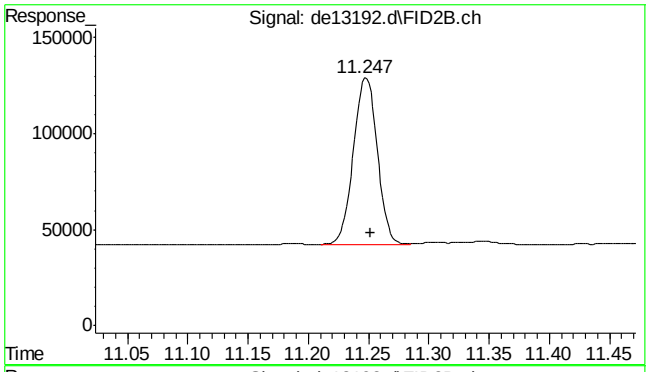
R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 151034
Conc: 2.13 µg/ml



#34 c-20

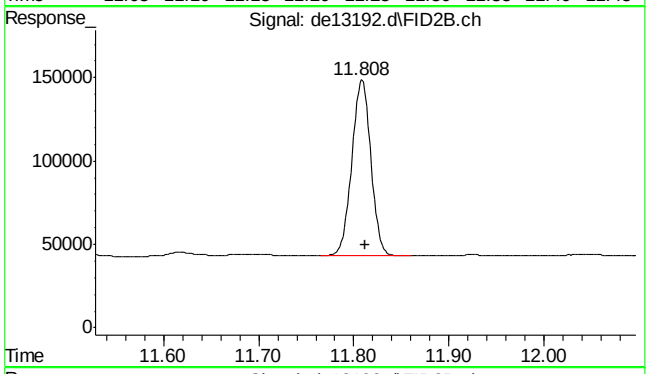
R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 148378
Conc: 2.13 µg/ml

SGS ACCUTEST MC45580



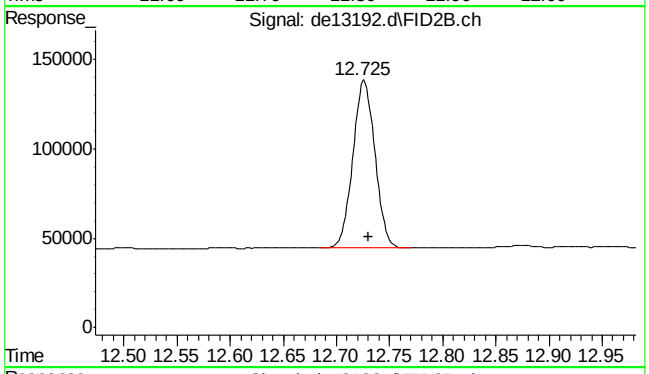
#35 1-chlorooctadecane

R.T.: 11.247 min
Delta R.T.: -0.005 min
Response: 119513
Conc: 2.17 µg/ml



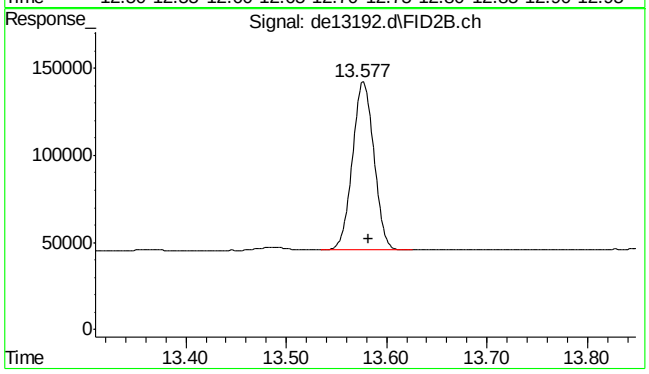
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 146070
Conc: 2.12 µg/ml



#37 c-24

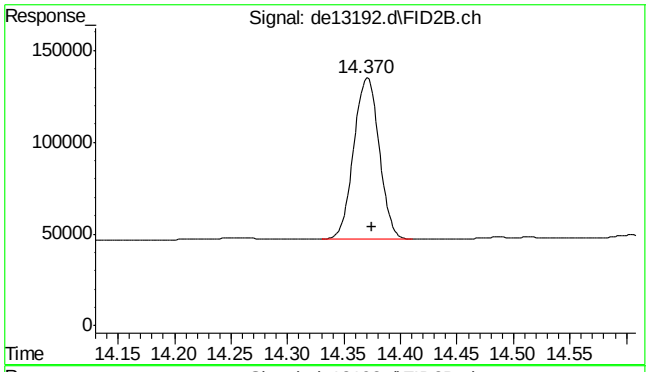
R.T.: 12.725 min
Delta R.T.: -0.005 min
Response: 135579
Conc: 2.05 µg/ml



#38 c-26

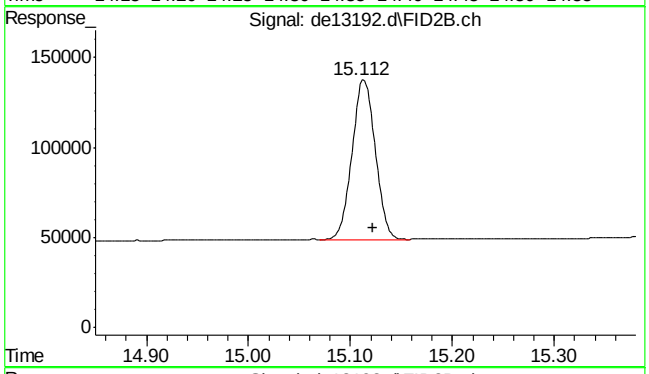
R.T.: 13.577 min
Delta R.T.: -0.005 min
Response: 142920
Conc: 2.09 µg/ml

SGS ACCUTEST MC45580



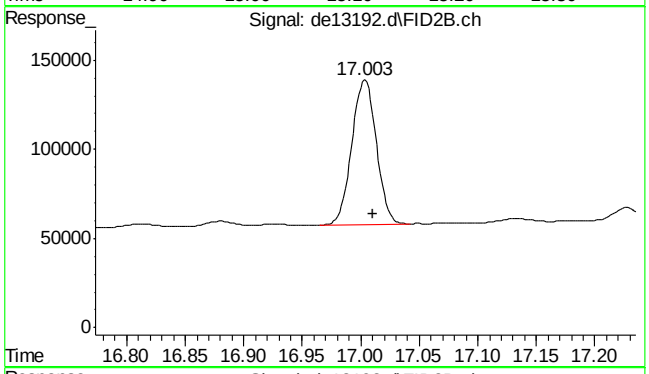
#39 c-28

R.T.: 14.370 min
Delta R.T.: -0.005 min
Response: 137233
Conc: 2.06 µg/ml



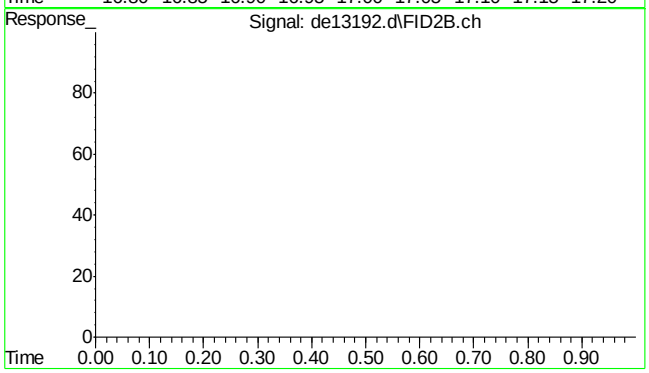
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 139197
Conc: 2.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 119416
Conc: 1.93 µg/ml m



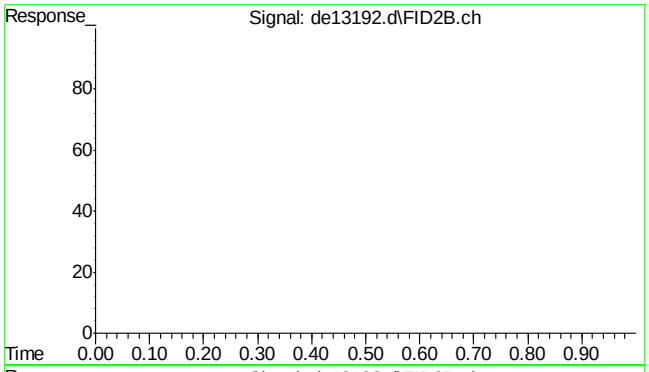
#42 bht

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

9.5.2

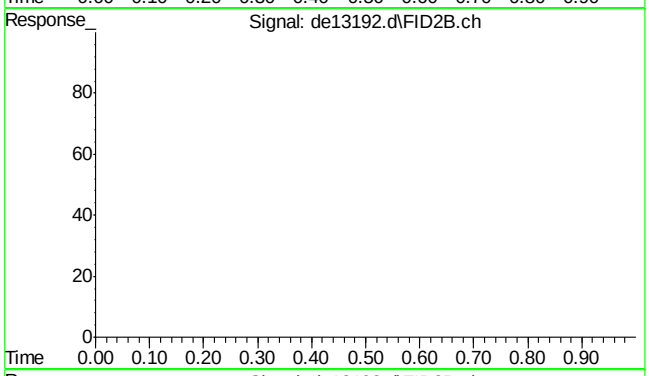
9

SGS ACCUTEST MC45580



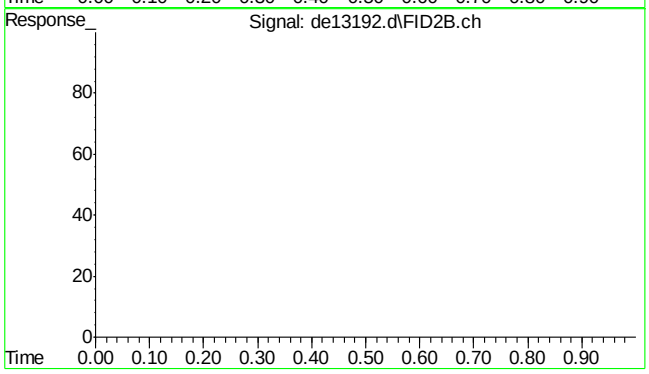
#43 bht

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.

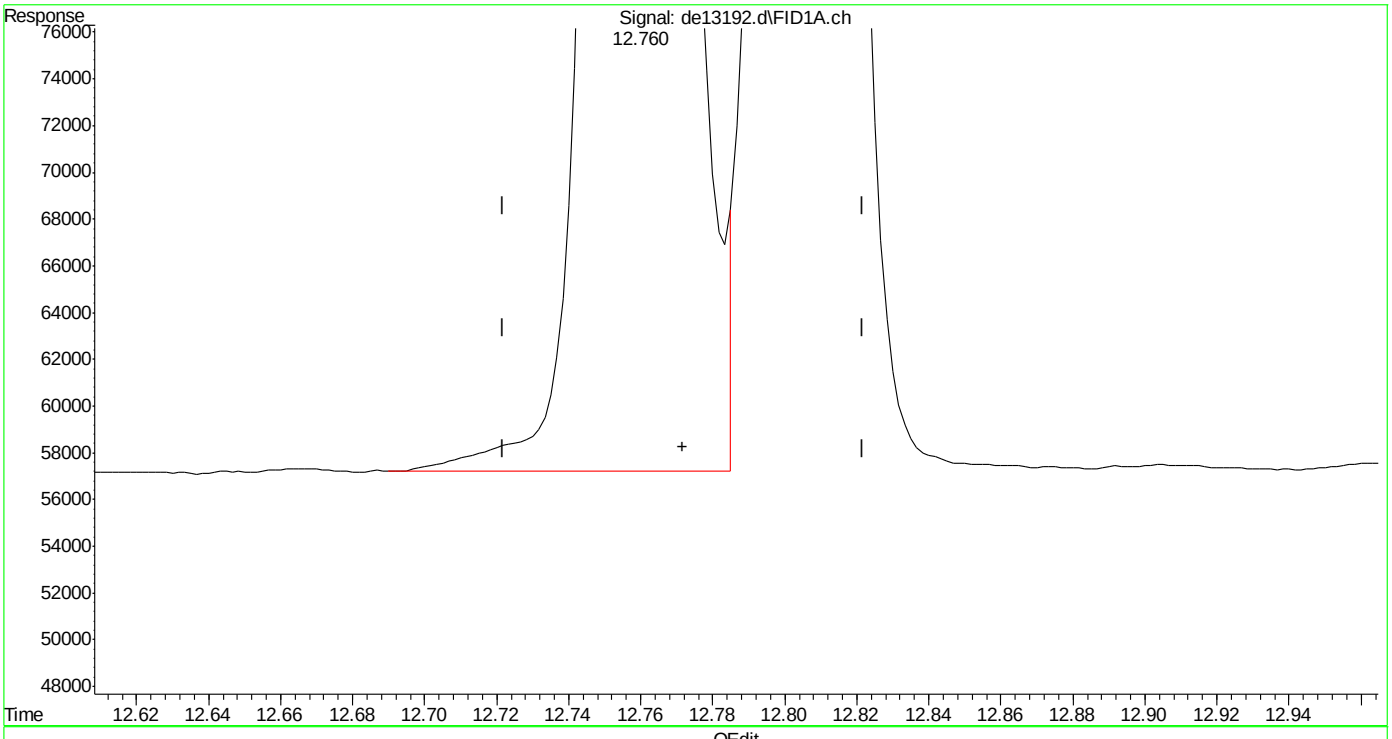
SGS ACCUTEST MC45580

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

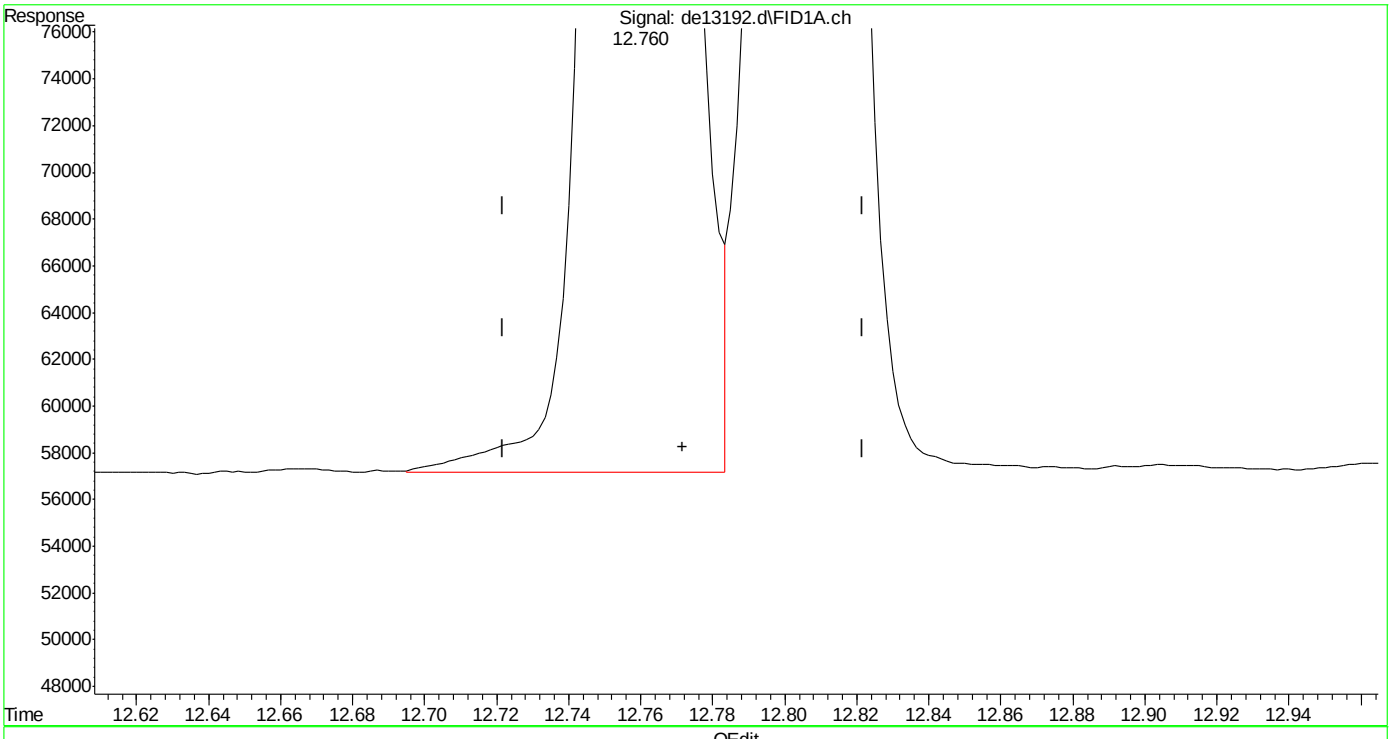
EPH160204M.M Fri Feb 05 10:39:22 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.760min 2.010 µg/ml m
response 197822

(+) = Expected Retention Time

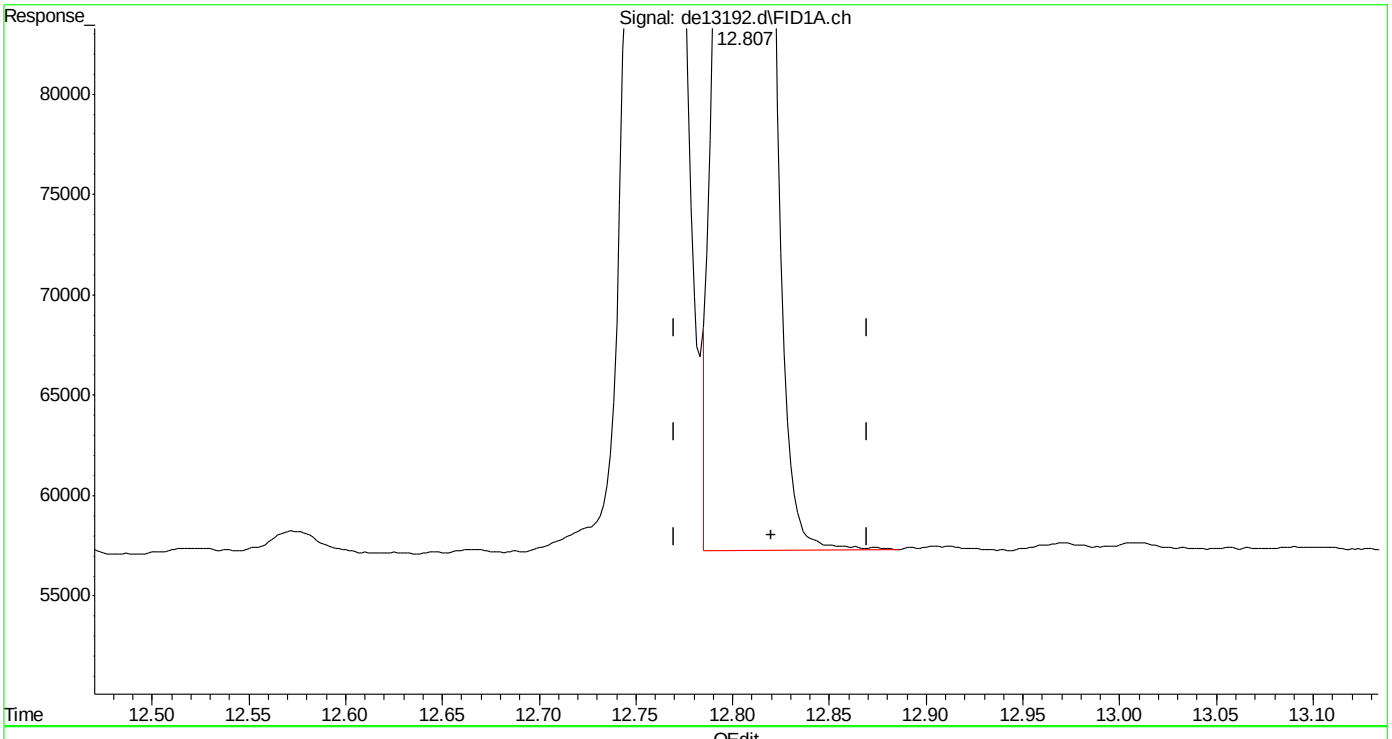
SGS ACCUTEST MC45580

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

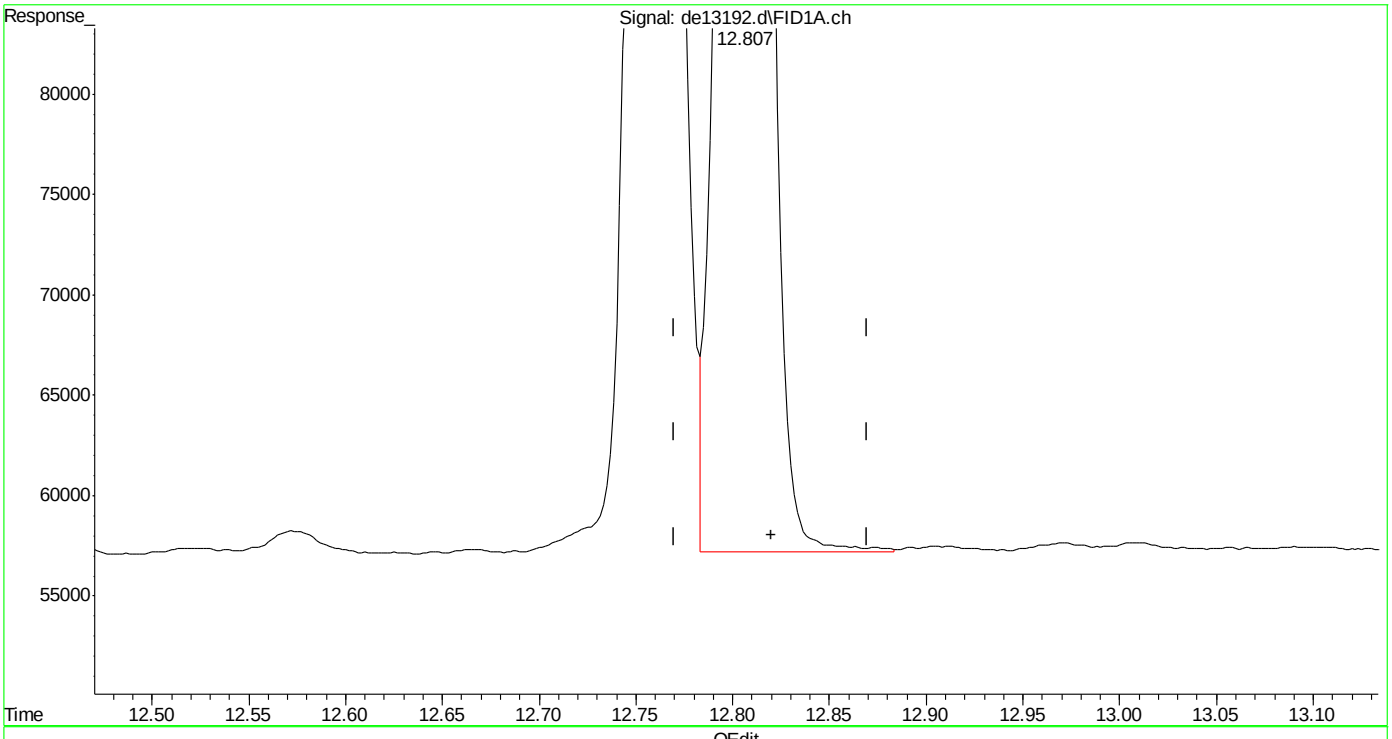
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.807min 1.992 µg/ml m
response 197927

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:40:19 2016

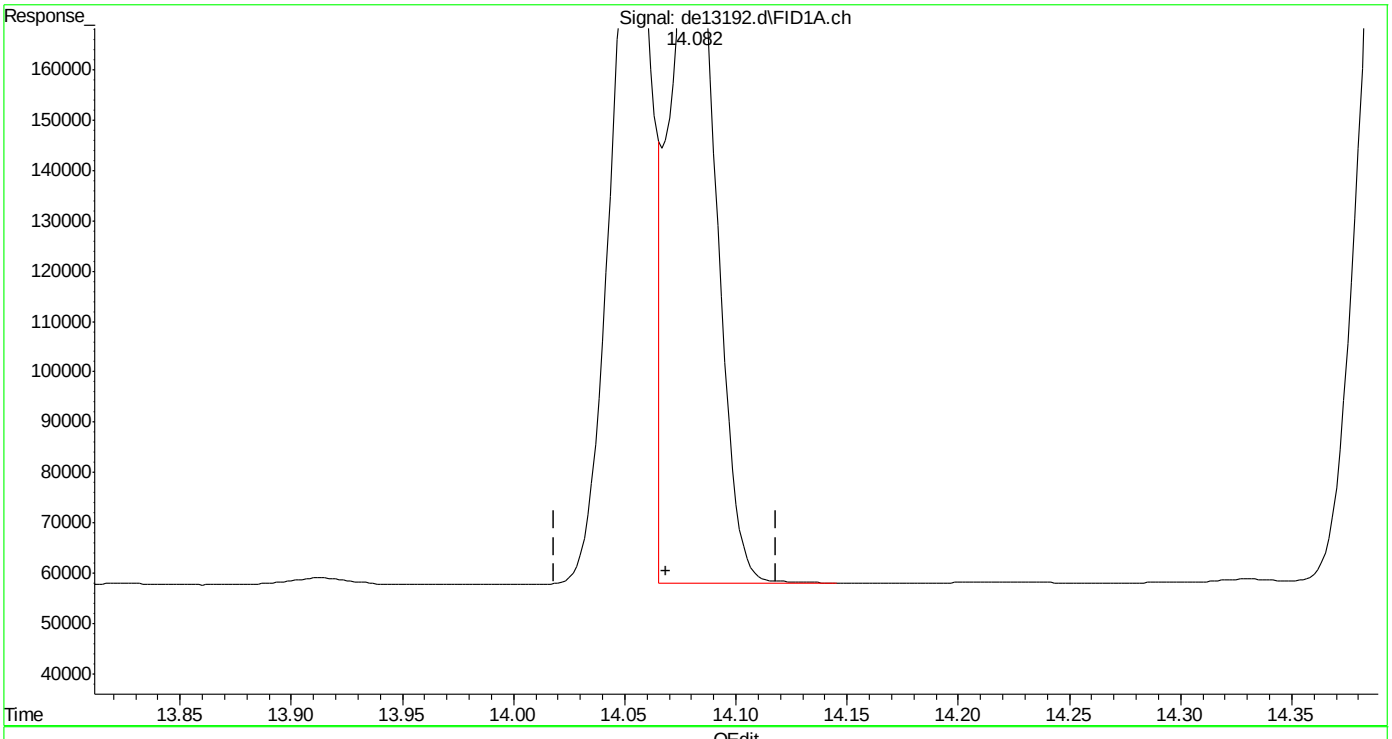
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.082min 1.990 µg/ml
response 202408

(+) = Expected Retention Time

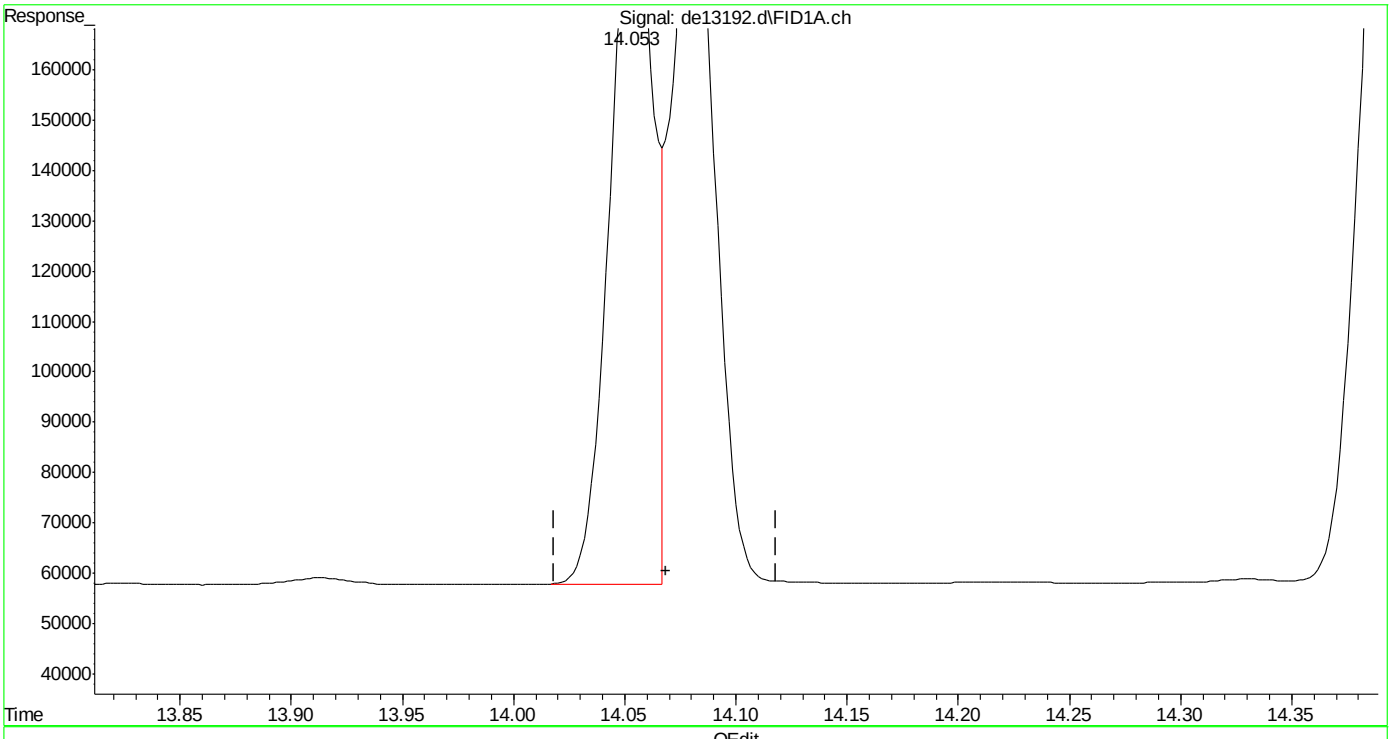
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13192.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 4:36 pm
Operator : thomasa
Sample : ic735-2
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:38:45 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:38:37 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.053min 1.943 µg/ml m
response 197572

(+) = Expected Retention Time

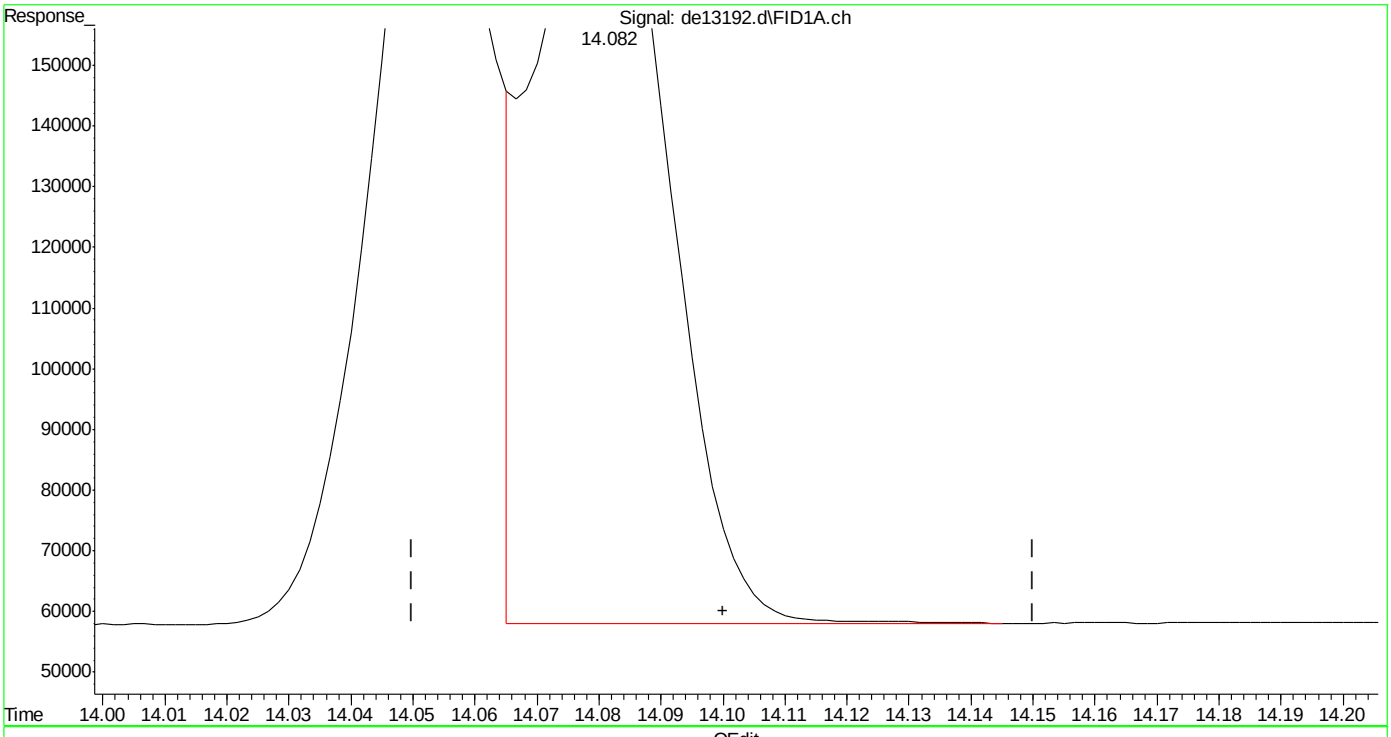
SGS ACCUTEST MC45580

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

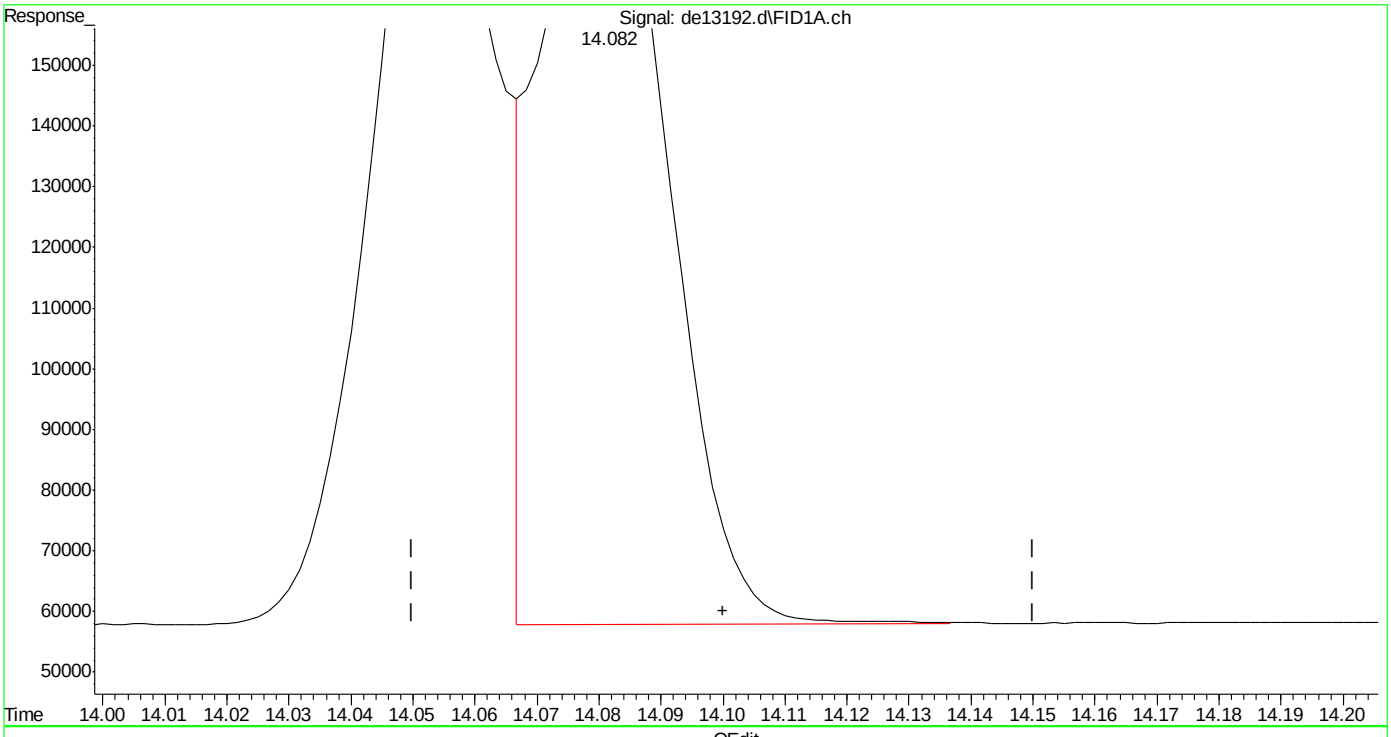
SGS ACCUTEST MC45580

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

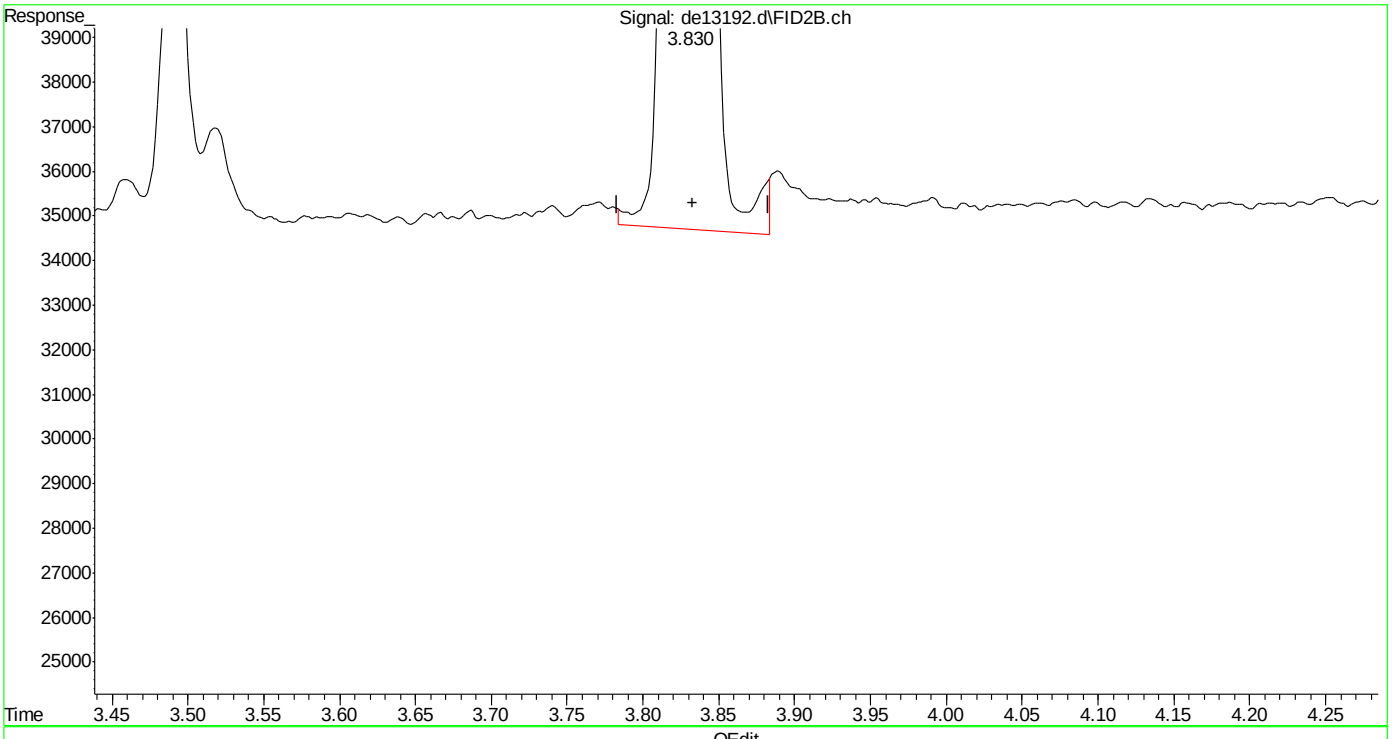
SGS ACCUTEST MC45580

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

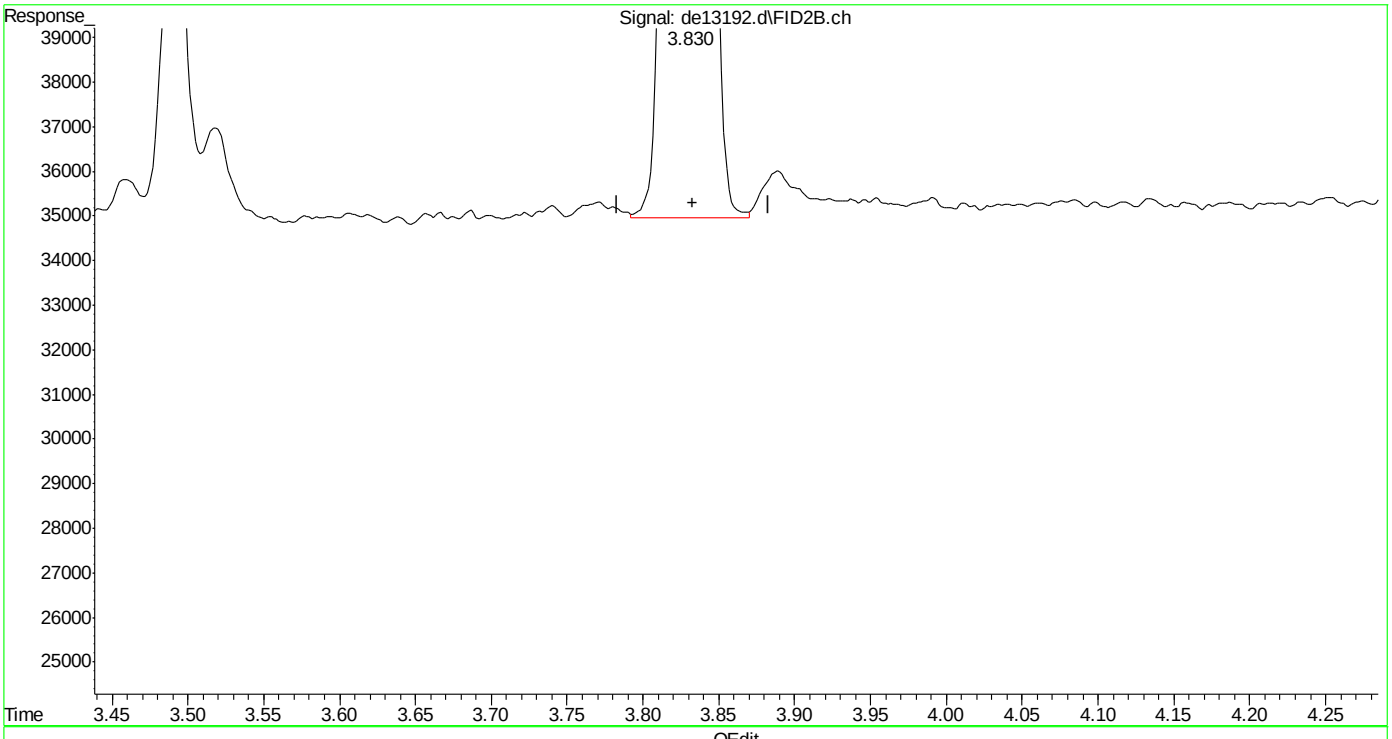
SGS ACCUTEST MC45580

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

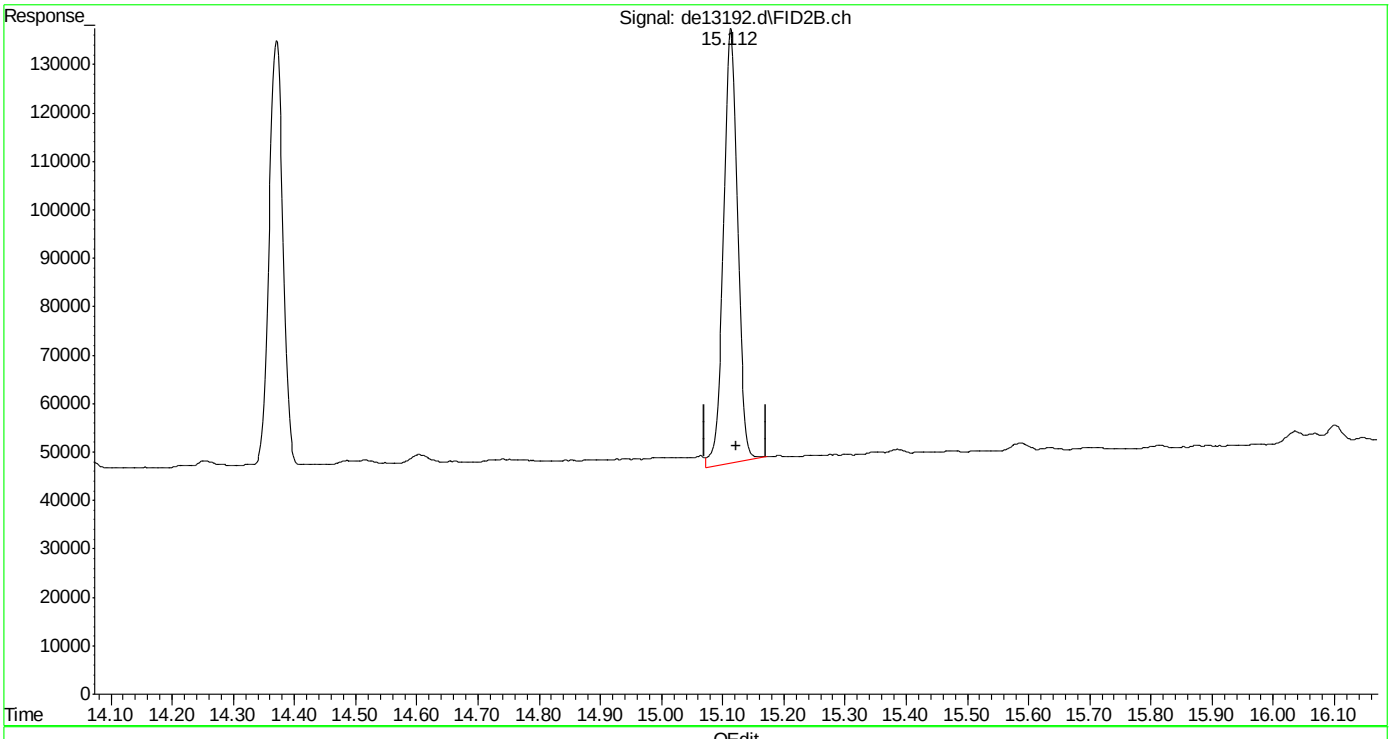
SGS ACCUTEST MC45580

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

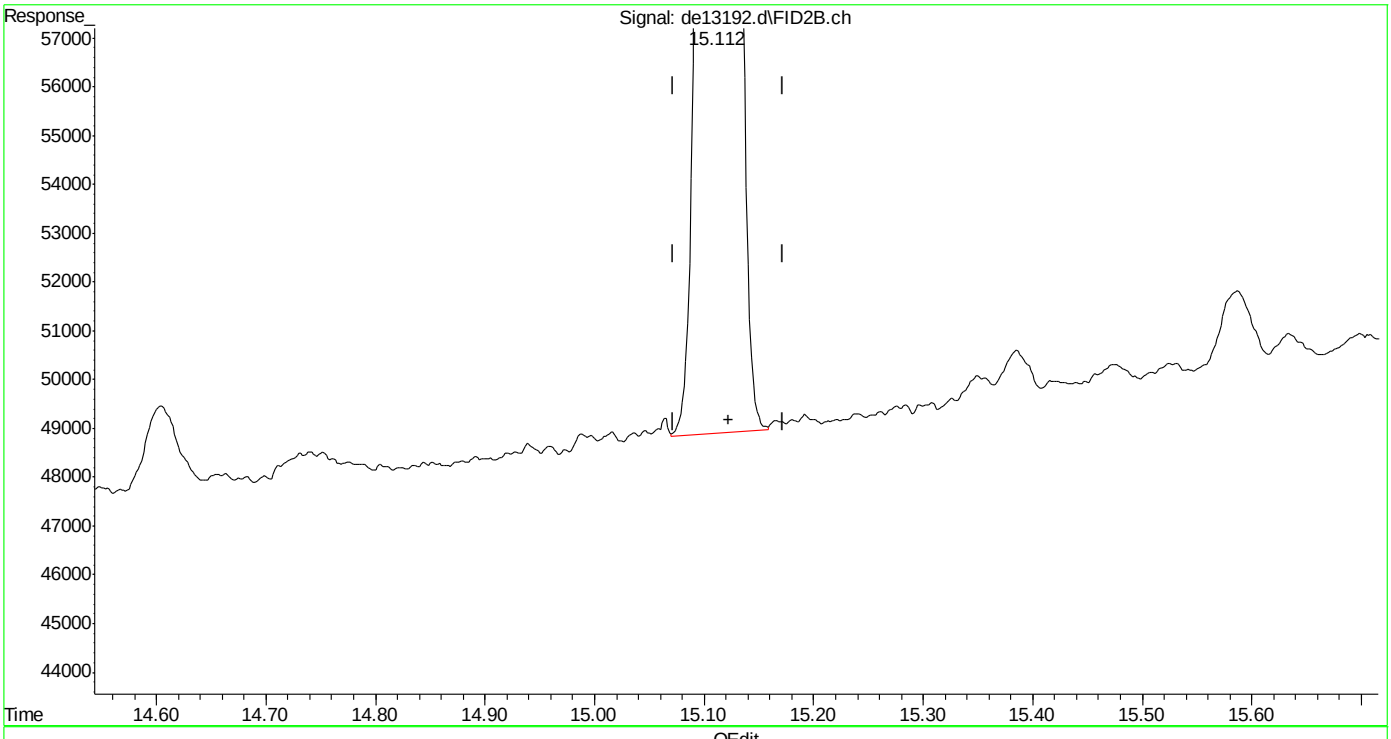
(+) = Expected Retention Time

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

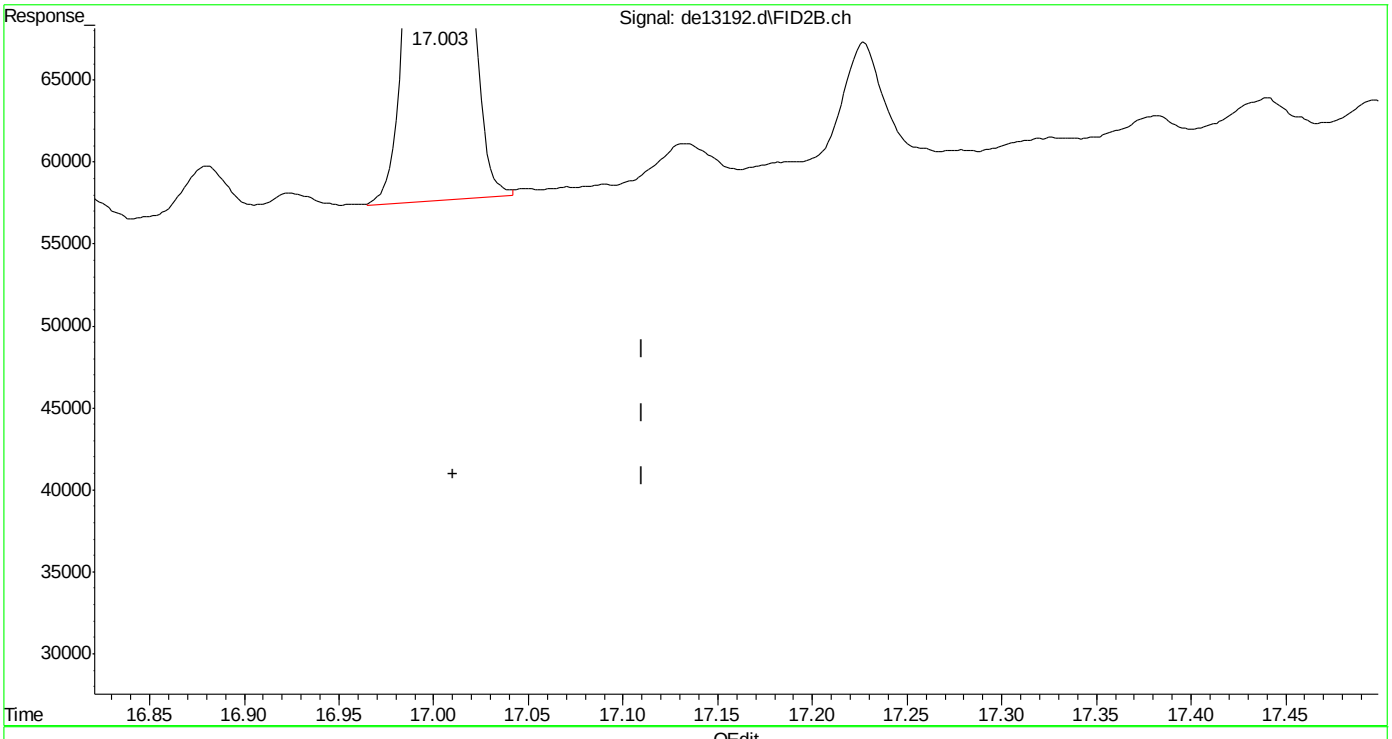
SGS ACCUTEST MC45580

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

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	466222	4.822 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.11%		
6) s 2-bromonaphthalene	7.532	318410	4.852 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.26%		
11) s o-terphenyl	10.078	516185	4.888 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 24.44%		
35) s 1-chlorooctadecane	11.248	298238	5.342 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 26.71%		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	9069374	5.748 µg/mlm
2) naphthalene	5.352	522941	4.813 µg/ml
3) 2-methylnaphthalene	6.250	518620	4.819 µg/ml
5) acenaphthylene	7.367	513706	4.852 µg/ml
7) acenaphthene	7.608	524765	4.857 µg/ml
8) fluorene	8.252	515691	4.866 µg/ml
9) phenanthrene	9.435	514273	4.881 µg/ml
10) anthracene	9.492	492058	5.024 µg/ml
12) fluoranthene	10.942	501463	4.866 µg/ml
13) pyrene	11.200	505877	4.848 µg/ml
14) benzo(a)anthracene	12.762	484563	4.921 µg/mlm
15) chrysene	12.807	488834	4.923 µg/mlm
16) benzo(B)fluoranthene	14.055	499942	4.931 µg/mlm
17) benzo(k)fluoranthene	14.085	474469	4.875 µg/mlm
18) benzo(a)pyrene	14.390	464216	4.850 µg/ml
19) indeno(1,2,3-cd)pyrene	15.525	472235	4.822 µg/mlm
20) dibenzo(ah)anthracene	15.572	466623	4.975 µg/mlm
21) benzo(ghi)perylene	15.745	463653	4.908 µg/ml
25) h c-9	2.680	396890	5.301 µg/mlm
26) h c-10	3.833	401630	5.322 µg/ml
27) naphthalene #2	5.510	427200	5.413 µg/ml
28) c-12	5.685	398273	5.304 µg/ml
29) 2-methylnaphthalene #2	6.403	429906	5.303 µg/ml
30) c-14	7.202	396429	5.271 µg/ml
31) c-16	8.532	389860	5.199 µg/ml
32) c-18	9.725	383929	5.164 µg/ml
33) c-19	10.282	381074	5.280 µg/ml
34) c-20	10.812	369620	5.213 µg/ml
36) c-22	11.808	364434	5.218 µg/ml
37) c-24	12.727	339349	5.097 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc Units
38)		c-26	13.578	359561	5.194 µg/ml
39)		c-28	14.372	345810	5.152 µg/ml
40)	h	c-30	15.122	345750	5.036 µg/mlm
41)	h	c-36	17.010	300895	4.906 µg/mlm

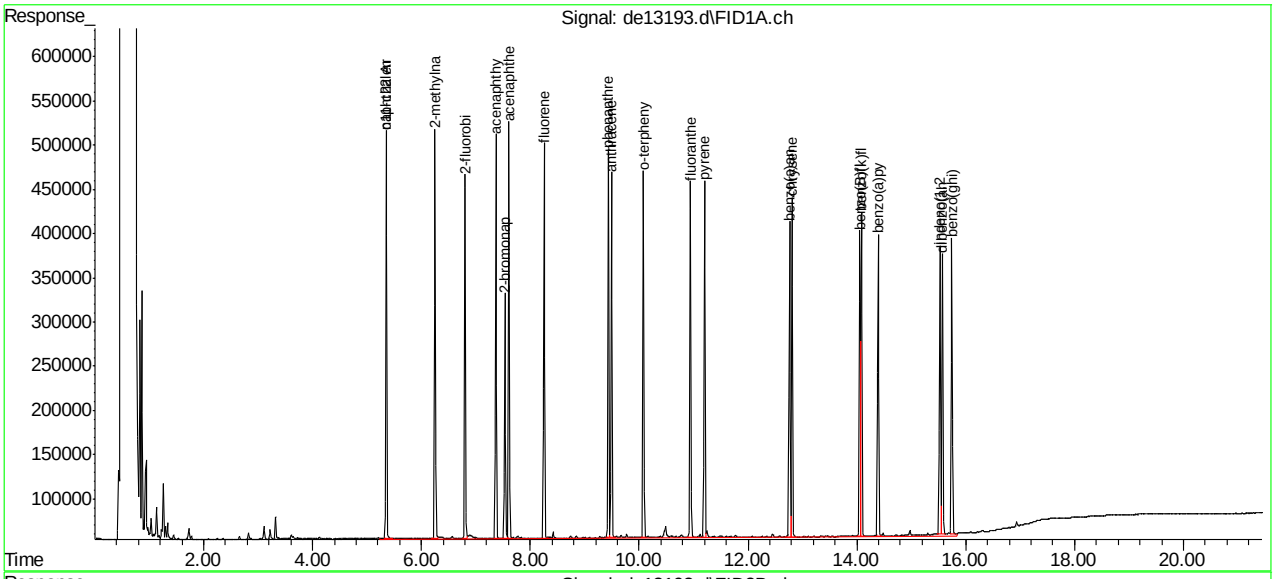
(f)=RT Delta > 1/2 Window (m)=manual int.

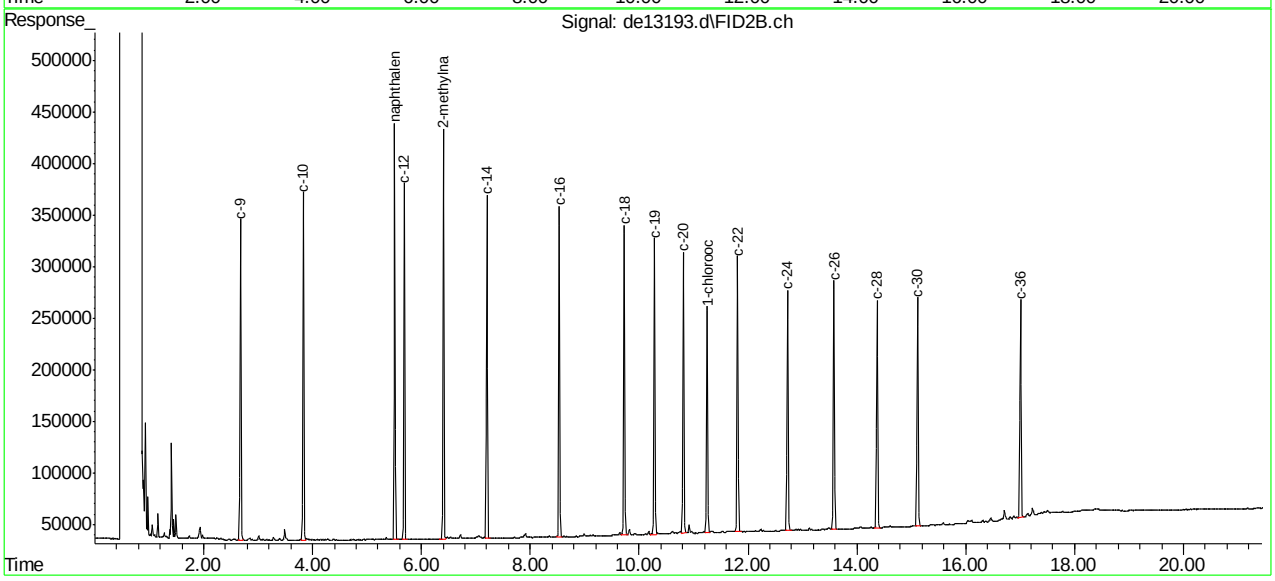
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13193.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:03 pm
Operator : thomasa
Sample : ic735-5
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

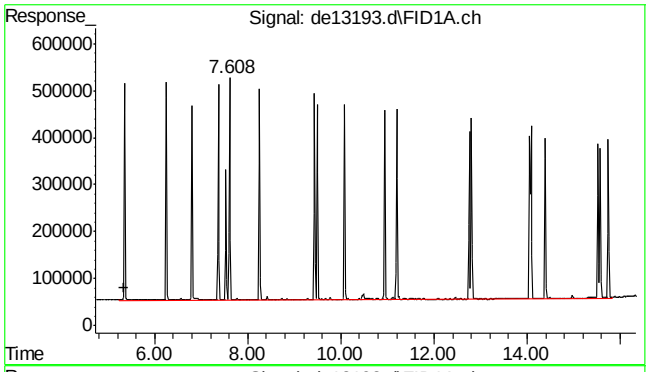
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:46:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:41:51 2016
Response via : Initial Calibration
Integrator: RTE

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



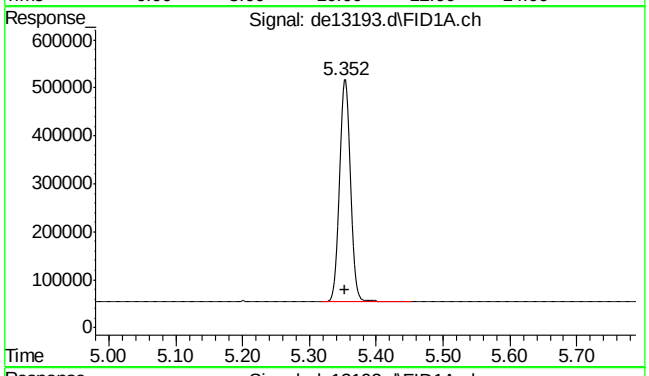


SGS ACCUTEST MC45580



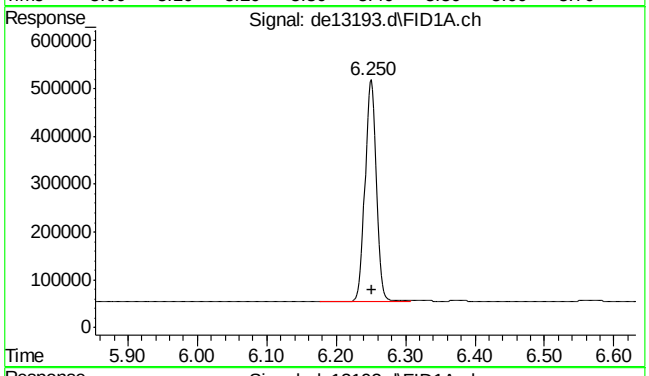
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 9069374
Conc: 5.75 µg/ml m



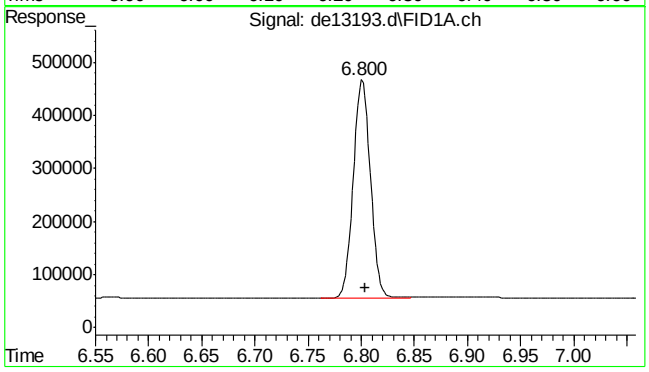
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 522941
Conc: 4.81 µg/ml



#3 2-methylnaphthalene

R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 518620
Conc: 4.82 µg/ml



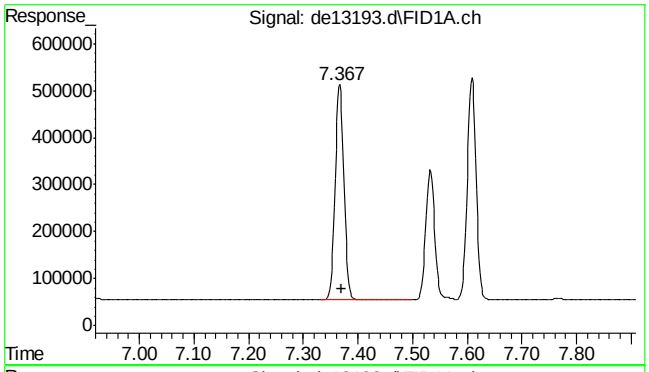
#4 2-fluorobiphenyl

R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 466222
Conc: 4.82 µg/ml

9.5.3

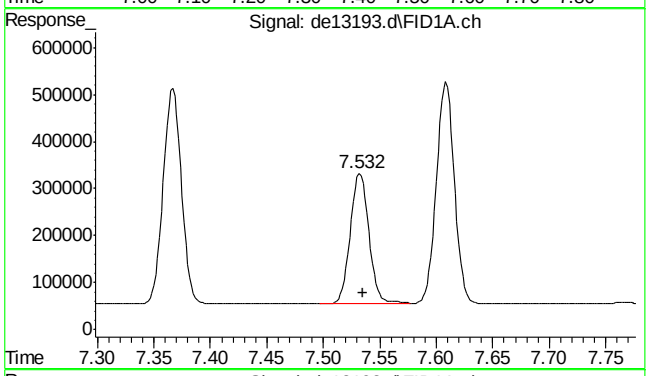
9

SGS ACCUTEST MC45580



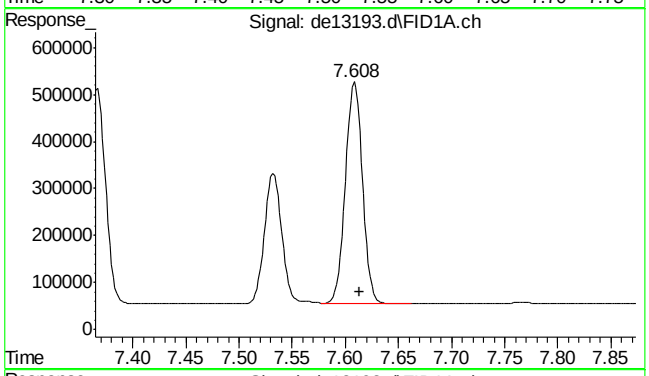
#5 acenaphthylene

R.T.: 7.367 min
Delta R.T.: -0.003 min
Response: 513706
Conc: 4.85 µg/ml



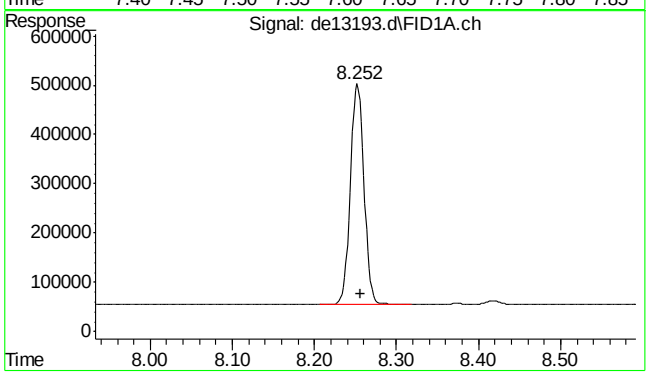
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 318410
Conc: 4.85 µg/ml



#7 acenaphthene

R.T.: 7.608 min
Delta R.T.: -0.005 min
Response: 524765
Conc: 4.86 µg/ml



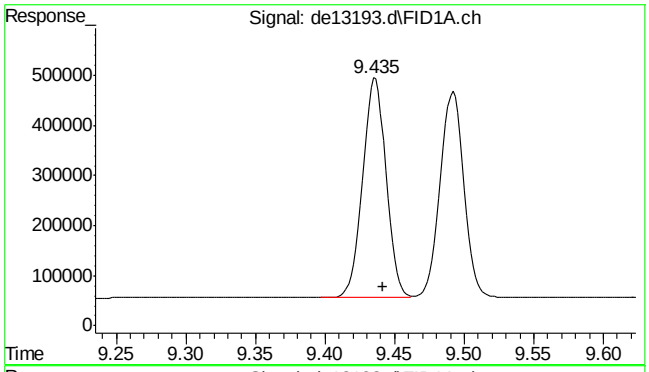
#8 fluorene

R.T.: 8.252 min
Delta R.T.: -0.005 min
Response: 515691
Conc: 4.87 µg/ml

9.5.3

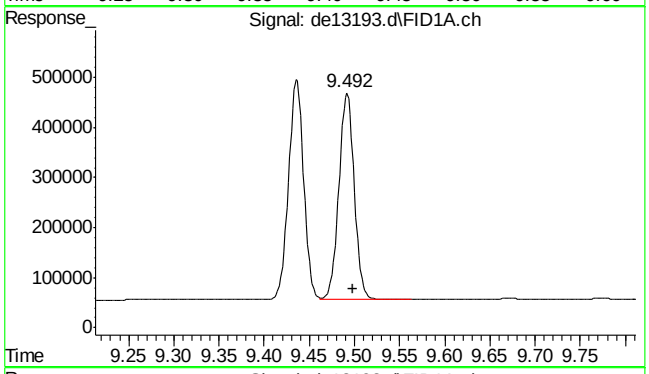
9

SGS ACCUTEST MC45580



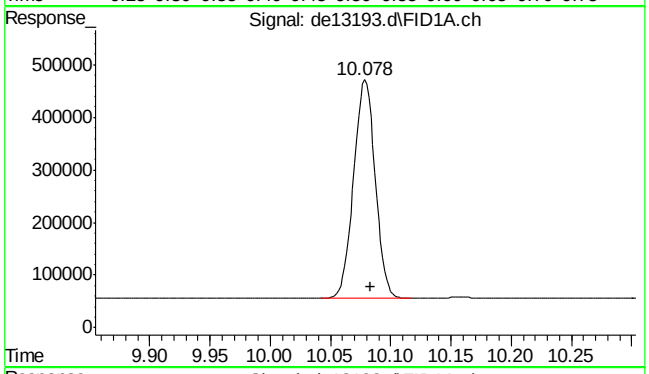
#9 phenanthrene

R.T.: 9.435 min
Delta R.T.: -0.007 min
Response: 514273
Conc: 4.88 µg/ml



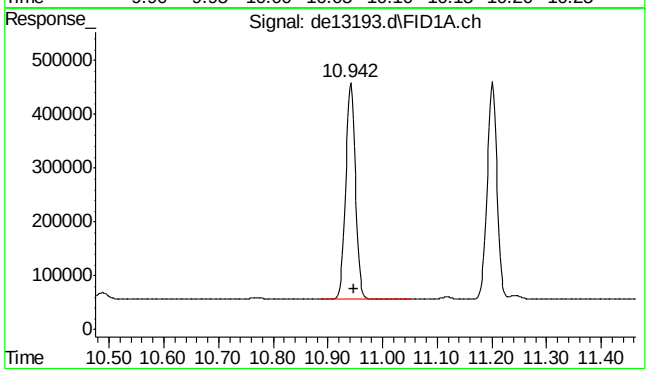
#10 anthracene

R.T.: 9.492 min
Delta R.T.: -0.007 min
Response: 492058
Conc: 5.02 µg/ml



#11 o-terphenyl

R.T.: 10.078 min
Delta R.T.: -0.005 min
Response: 516185
Conc: 4.89 µg/ml



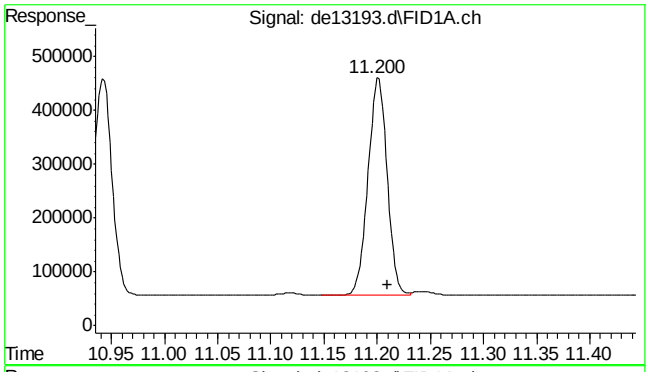
#12 fluoranthene

R.T.: 10.942 min
Delta R.T.: -0.007 min
Response: 501463
Conc: 4.87 µg/ml

9.5.3

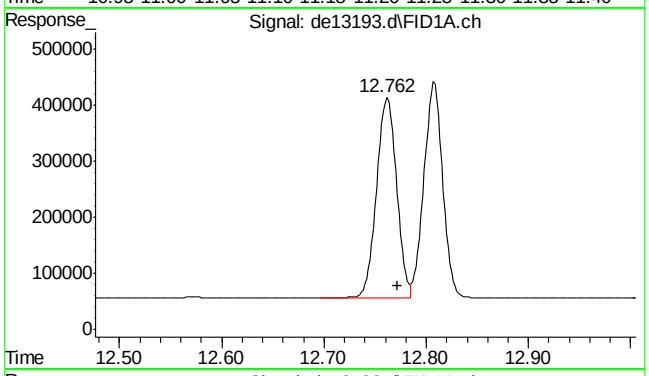
9

SGS ACCUTEST MC45580



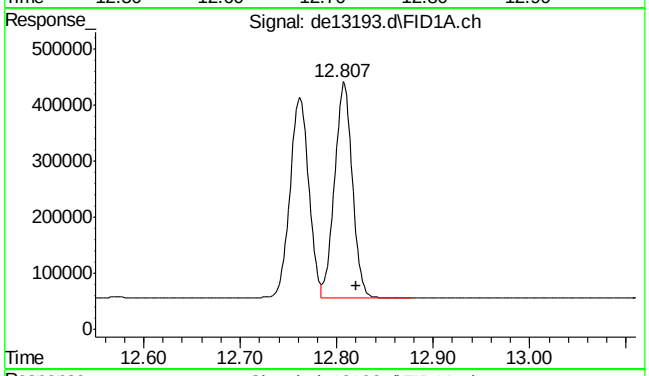
#13 pyrene

R.T.: 11.200 min
Delta R.T.: -0.010 min
Response: 505877
Conc: 4.85 µg/ml



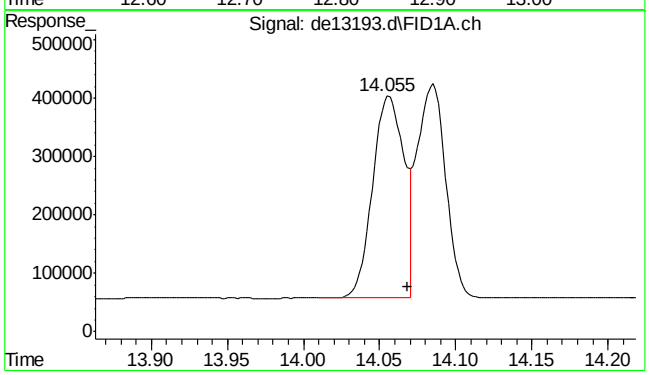
#14 benzo(a)anthracene

R.T.: 12.762 min
Delta R.T.: -0.010 min
Response: 484563
Conc: 4.92 µg/ml m



#15 chrysene

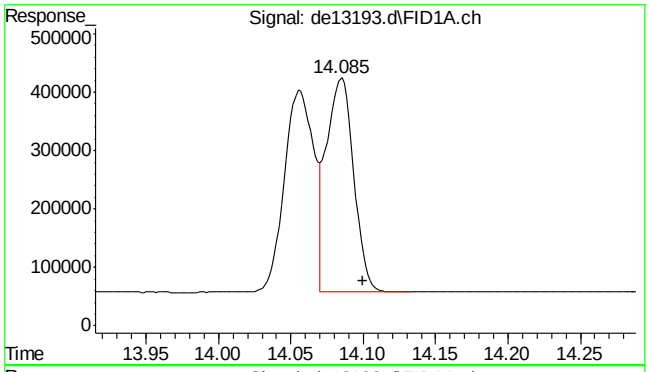
R.T.: 12.807 min
Delta R.T.: -0.013 min
Response: 488834
Conc: 4.92 µg/ml m



#16 benzo(B)fluoranthene

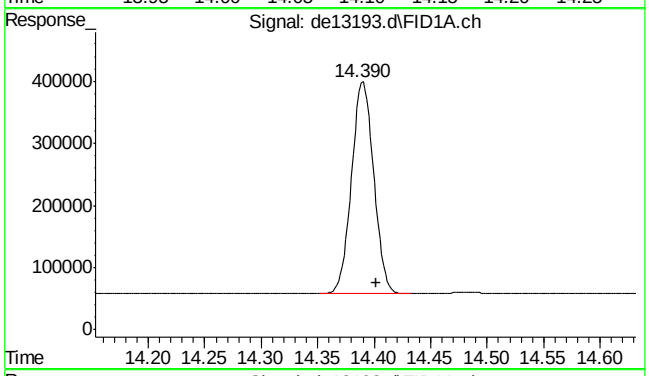
R.T.: 14.055 min
Delta R.T.: -0.013 min
Response: 499942
Conc: 4.93 µg/ml m

SGS ACCUTEST MC45580



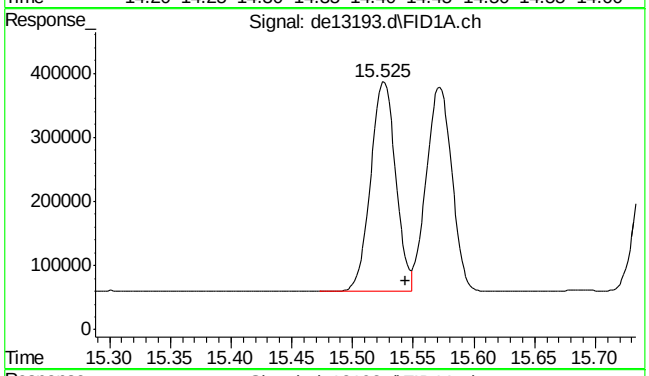
#17 benzo(k)fluoranthene

R.T.: 14.085 min
Delta R.T.: -0.015 min
Response: 474469
Conc: 4.88 µg/ml m



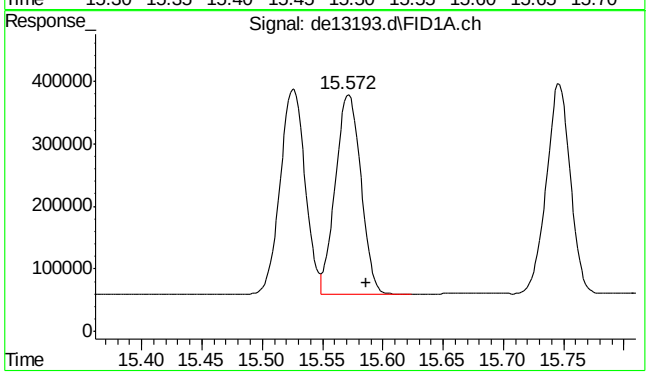
#18 benzo(a)pyrene

R.T.: 14.390 min
Delta R.T.: -0.012 min
Response: 464216
Conc: 4.85 µg/ml



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

R.T.: 15.525 min
Delta R.T.: -0.018 min
Response: 472235
Conc: 4.82 µg/ml m



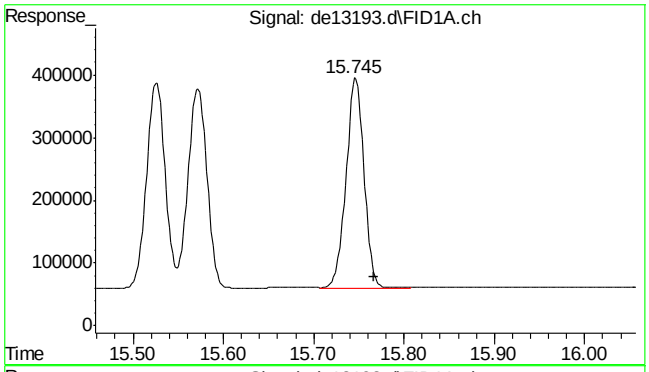
#20 dibenzo(ah)anthracene

R.T.: 15.572 min
Delta R.T.: -0.015 min
Response: 466623
Conc: 4.97 µg/ml m

9.5.3

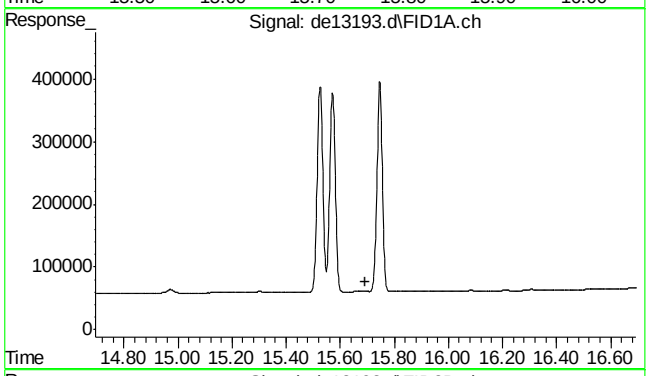
9

SGS ACCUTEST MC45580



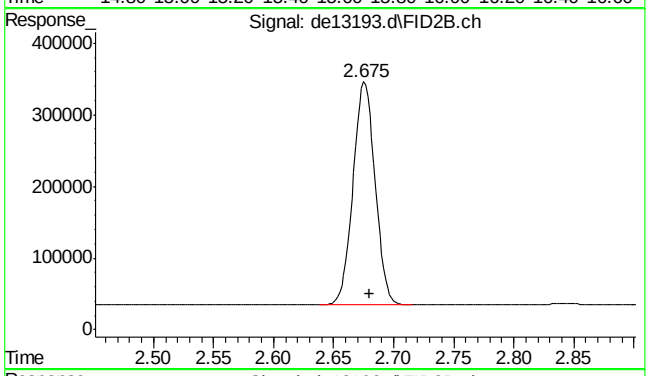
#21 benzo(ghi)perylene

R.T.: 15.745 min
Delta R.T.: -0.022 min
Response: 463653
Conc: 4.91 µg/ml



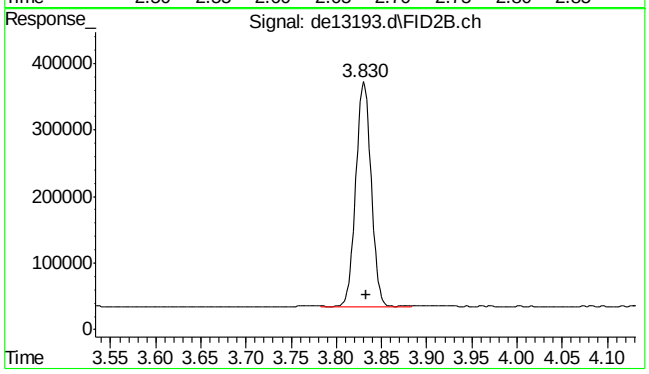
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 396890
Conc: 5.30 µg/ml m



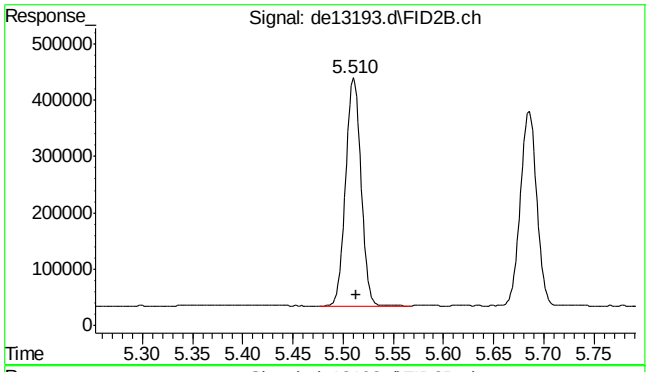
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 401630
Conc: 5.32 µg/ml

9.5.3

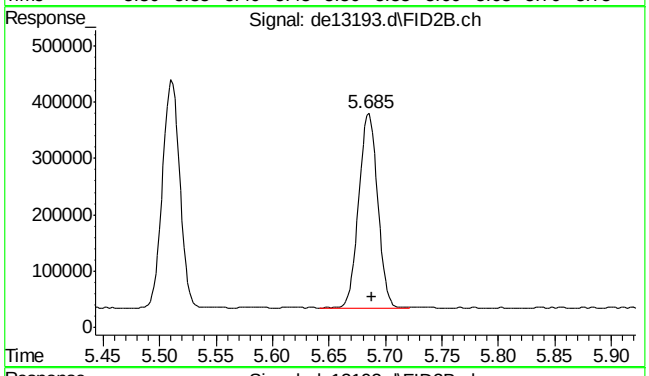
9

SGS ACCUTEST MC45580



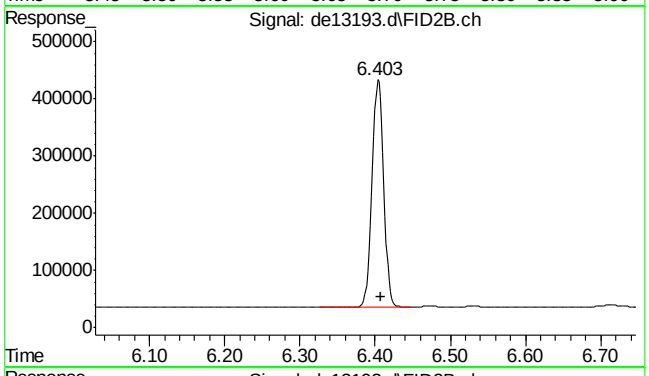
#27 naphthalene #2

R.T.: 5.510 min
Delta R.T.: -0.003 min
Response: 427200
Conc: 5.41 µg/ml



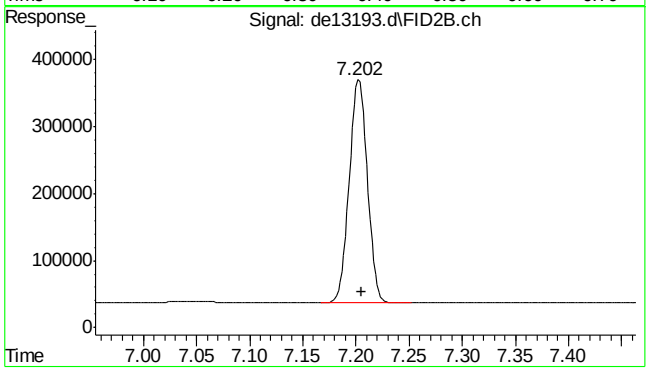
#28 c-12

R.T.: 5.685 min
Delta R.T.: -0.003 min
Response: 398273
Conc: 5.30 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.403 min
Delta R.T.: -0.005 min
Response: 429906
Conc: 5.30 µg/ml



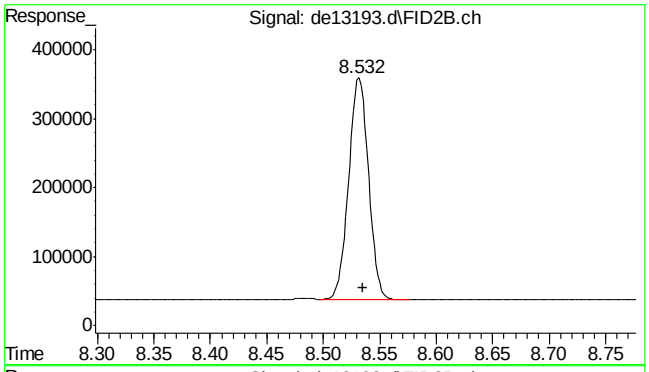
#30 c-14

R.T.: 7.202 min
Delta R.T.: -0.003 min
Response: 396429
Conc: 5.27 µg/ml

9.5.3

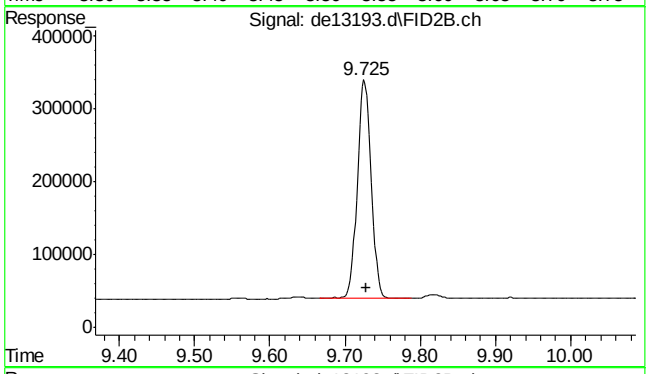
9

SGS ACCUTEST MC45580



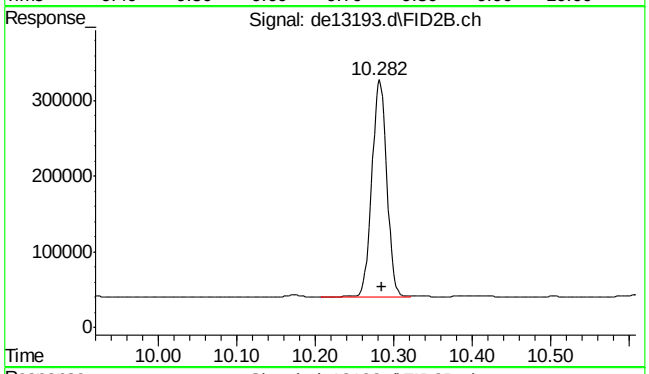
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 389860
Conc: 5.20 µg/ml



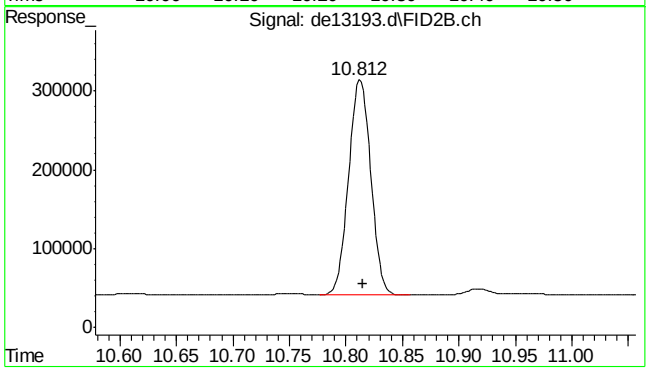
#32 c-18

R.T.: 9.725 min
Delta R.T.: -0.003 min
Response: 383929
Conc: 5.16 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 381074
Conc: 5.28 µg/ml



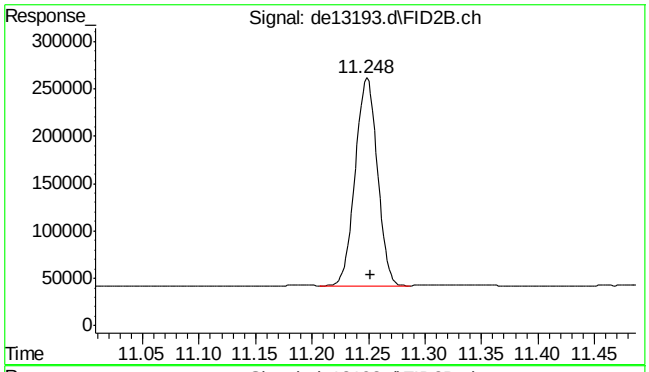
#34 c-20

R.T.: 10.812 min
Delta R.T.: -0.003 min
Response: 369620
Conc: 5.21 µg/ml

9.5.3

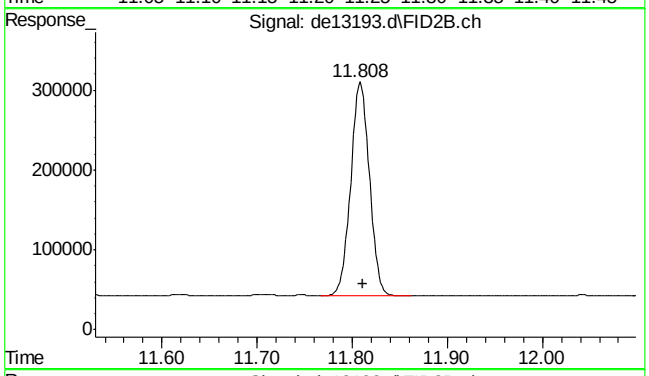
9

SGS ACCUTEST MC45580



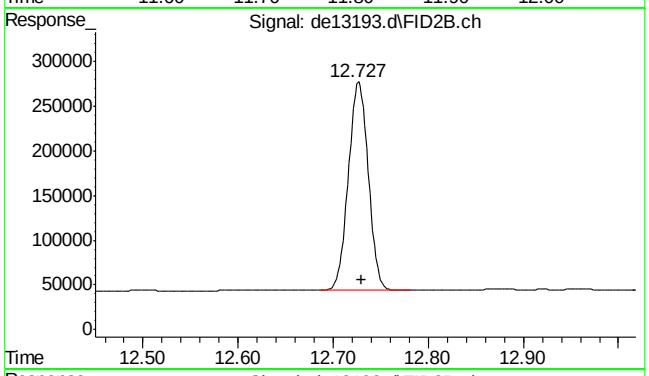
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 298238
Conc: 5.34 µg/ml



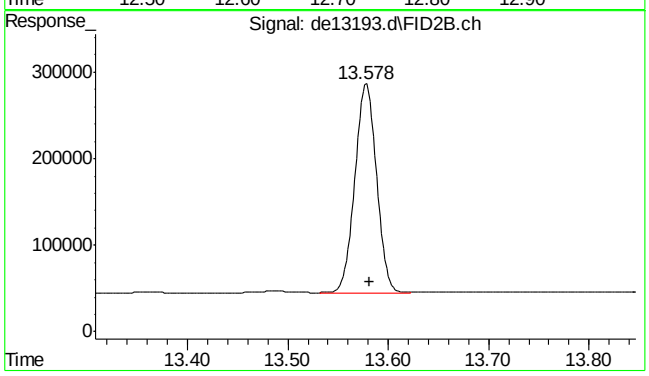
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 364434
Conc: 5.22 µg/ml



#37 c-24

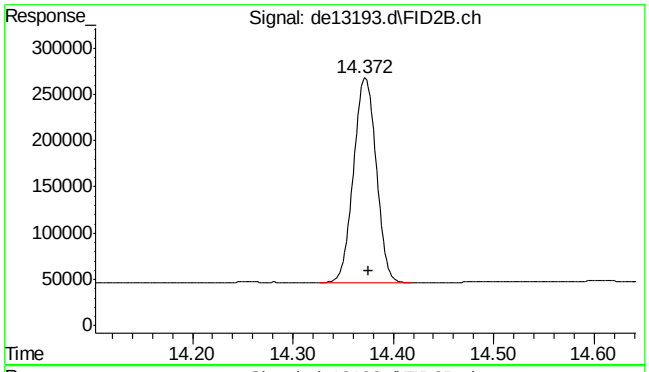
R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 339349
Conc: 5.10 µg/ml



#38 c-26

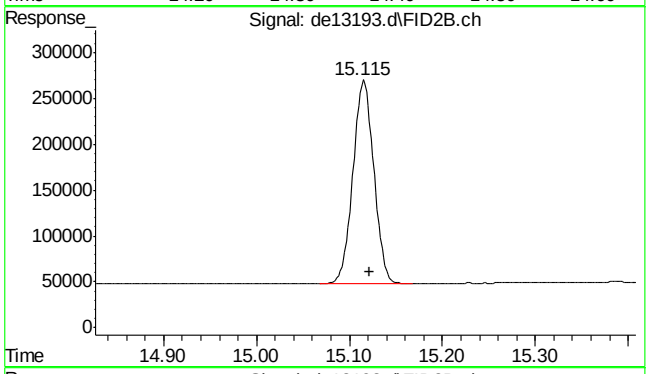
R.T.: 13.578 min
Delta R.T.: -0.003 min
Response: 359561
Conc: 5.19 µg/ml

SGS ACCUTEST MC45580



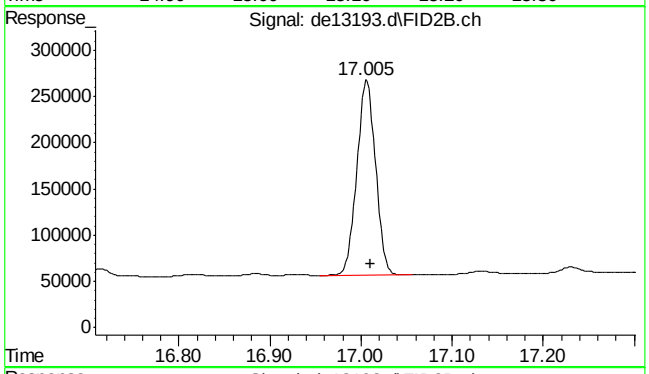
#39 c-28

R.T.: 14.372 min
Delta R.T.: -0.003 min
Response: 345810
Conc: 5.15 µg/ml



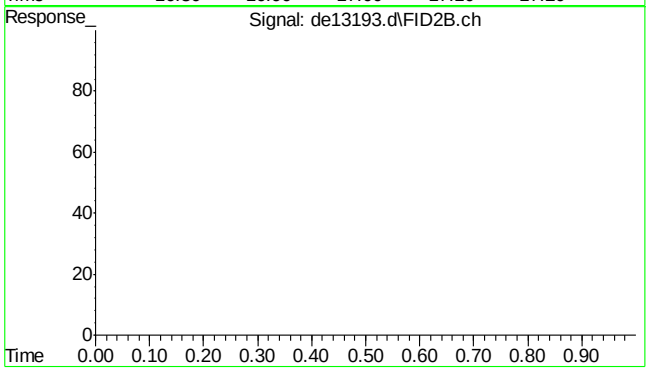
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 345750
Conc: 5.04 µg/ml m



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 300895
Conc: 4.91 µg/ml m



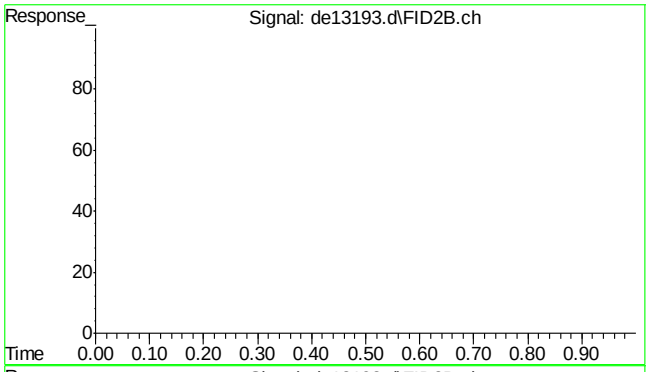
#42 bht

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

9.5.3

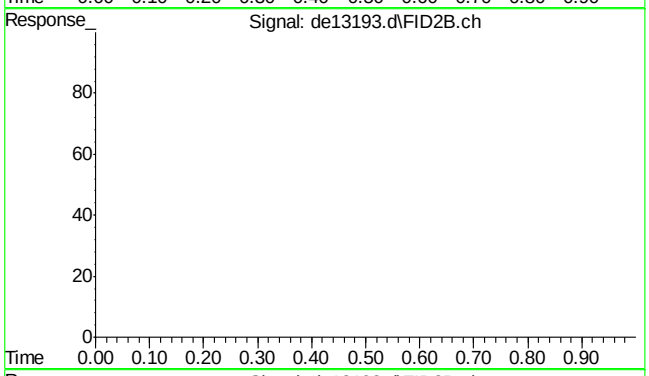
9

SGS ACCUTEST MC45580



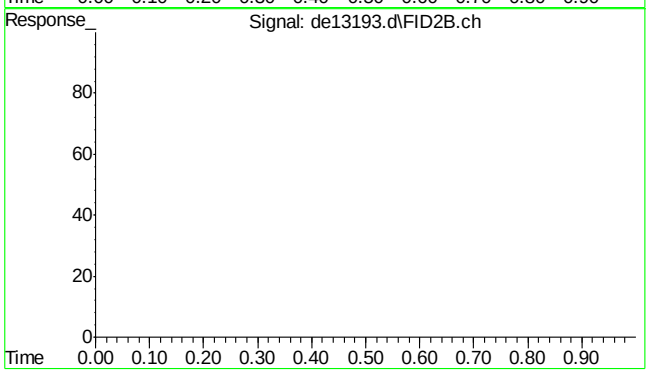
#43 bht

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.

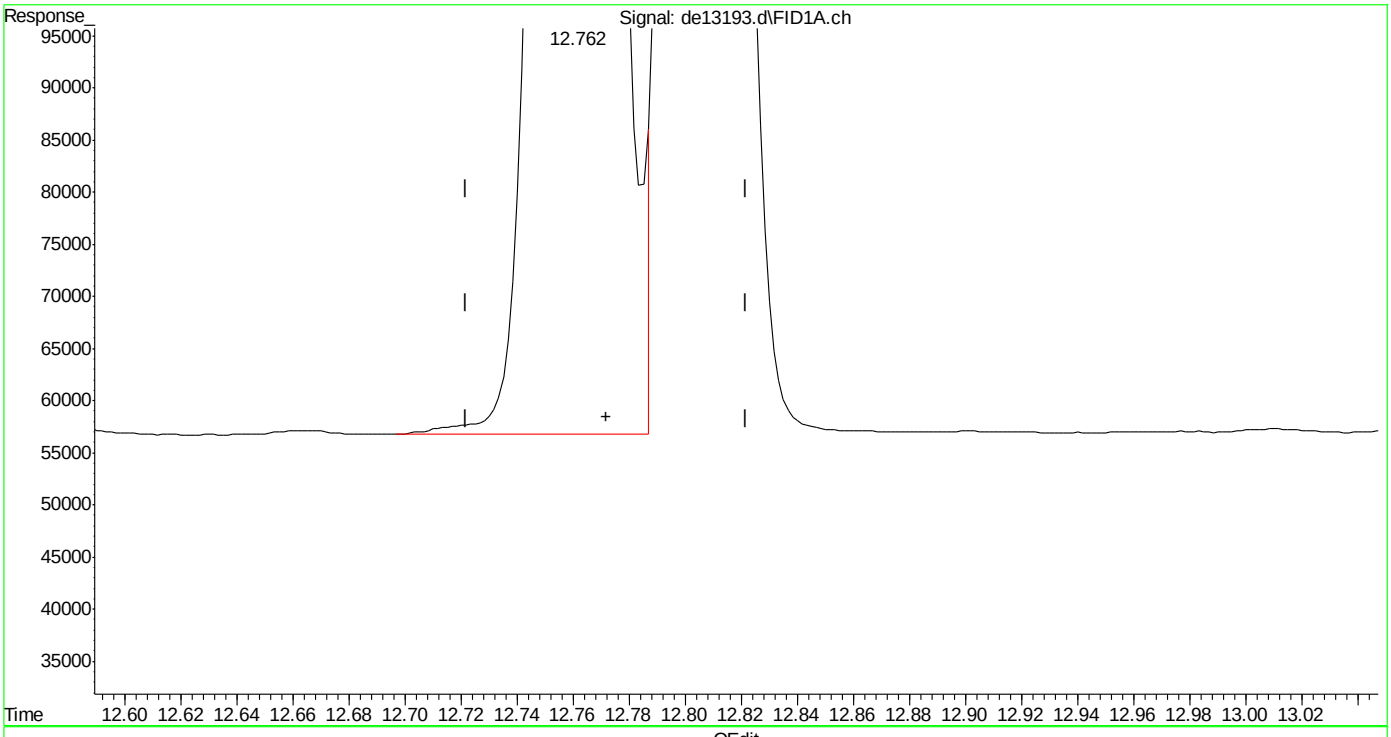
SGS ACCUTEST MC45580

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

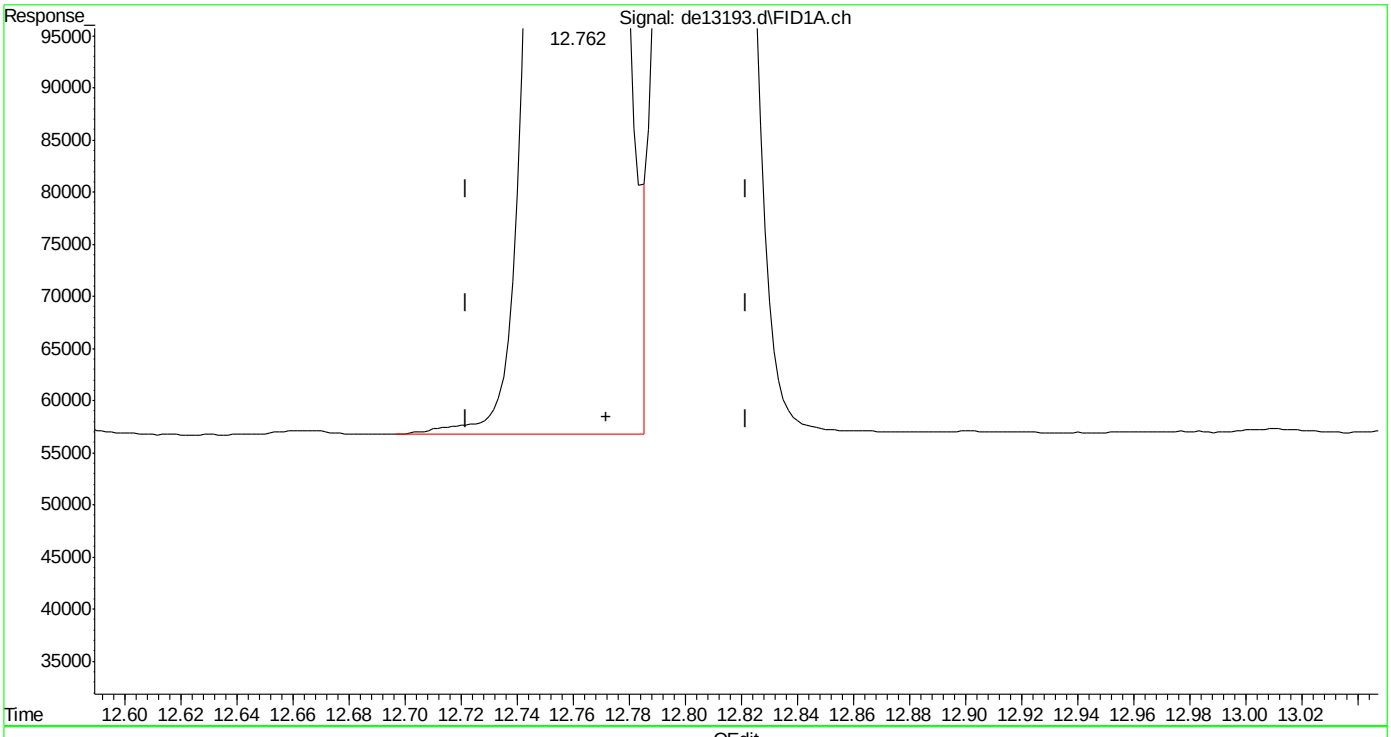
(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 10:43:12 2016

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

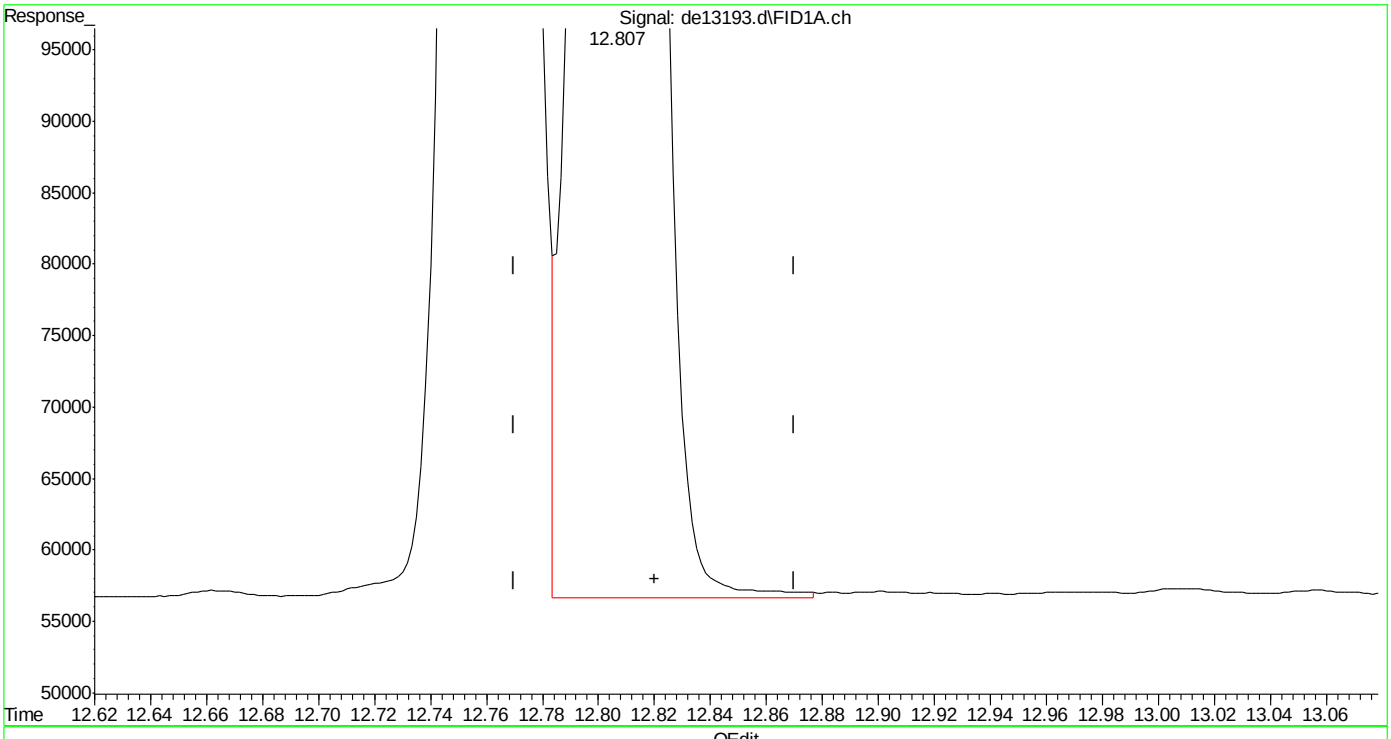
SGS ACCUTEST MC45580

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

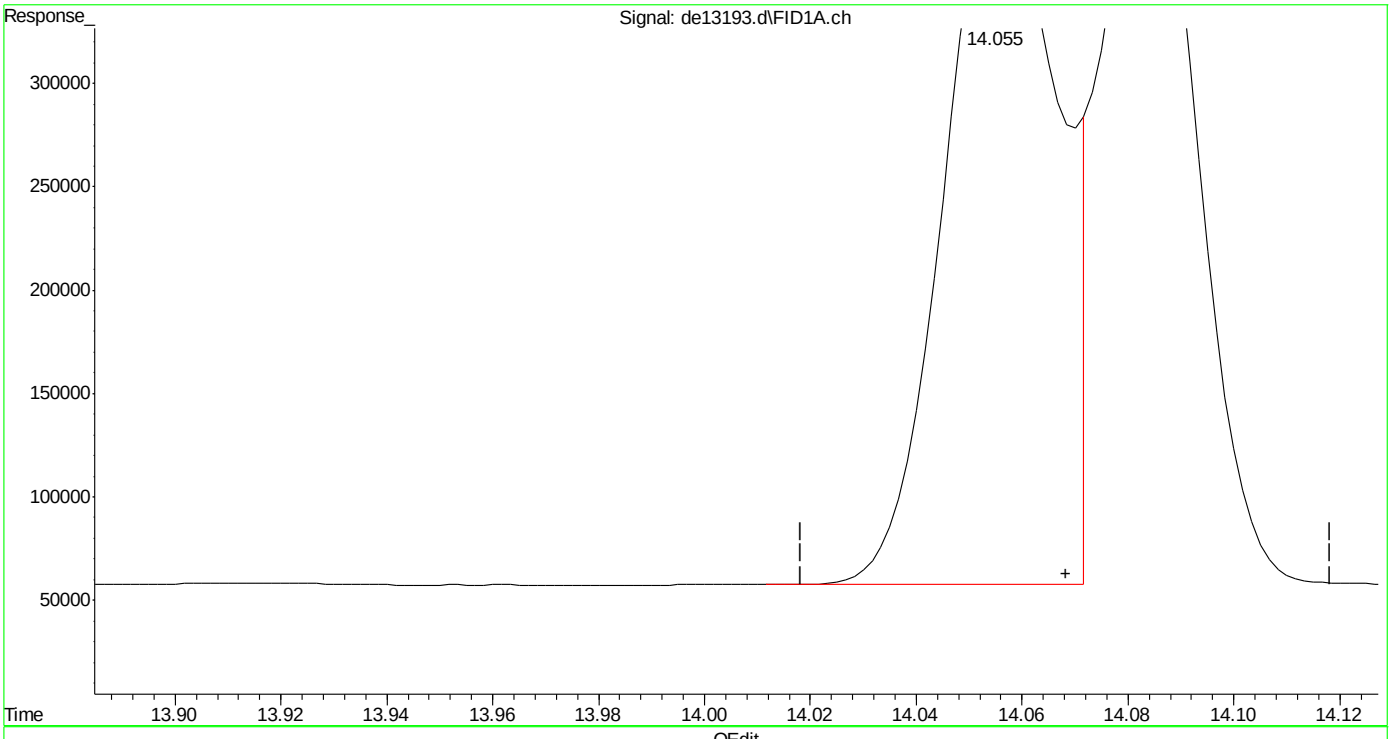
(+) = Expected Retention Time

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

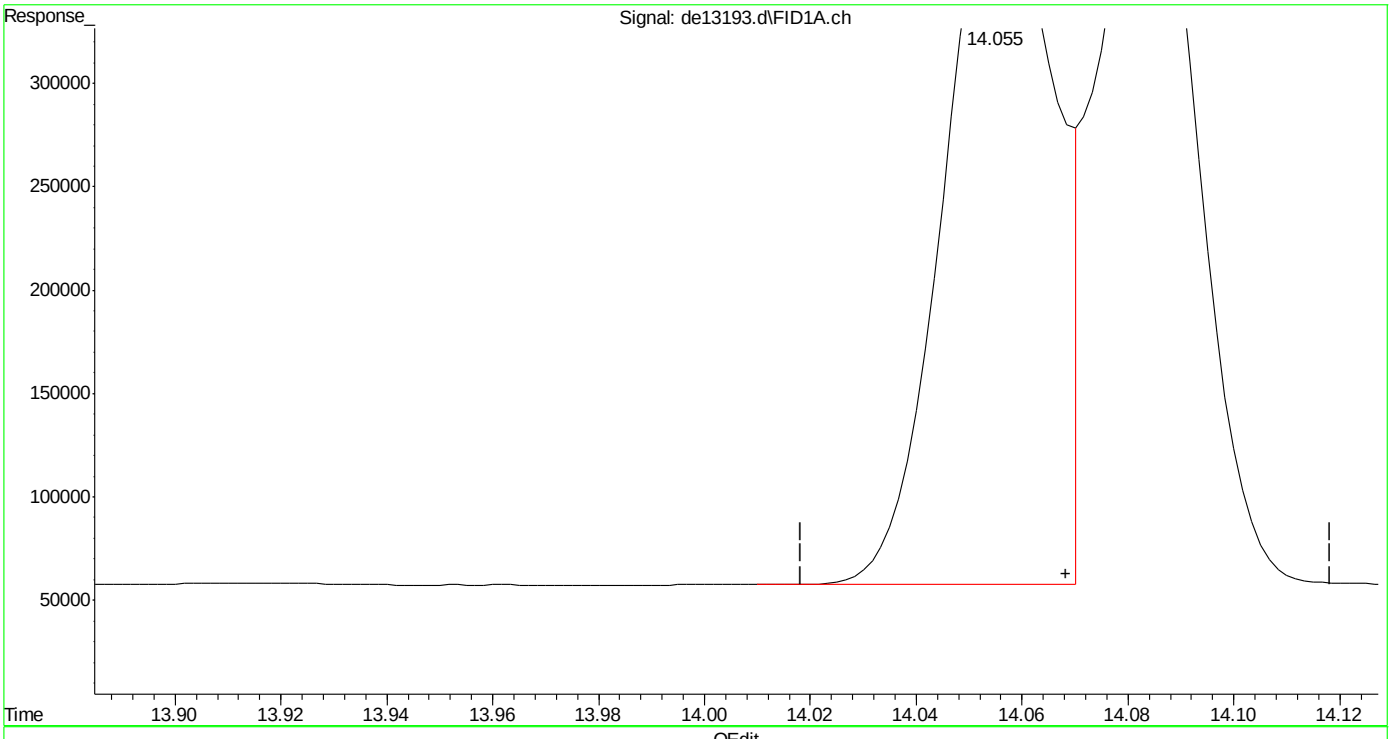
SGS ACCUTEST MC45580

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

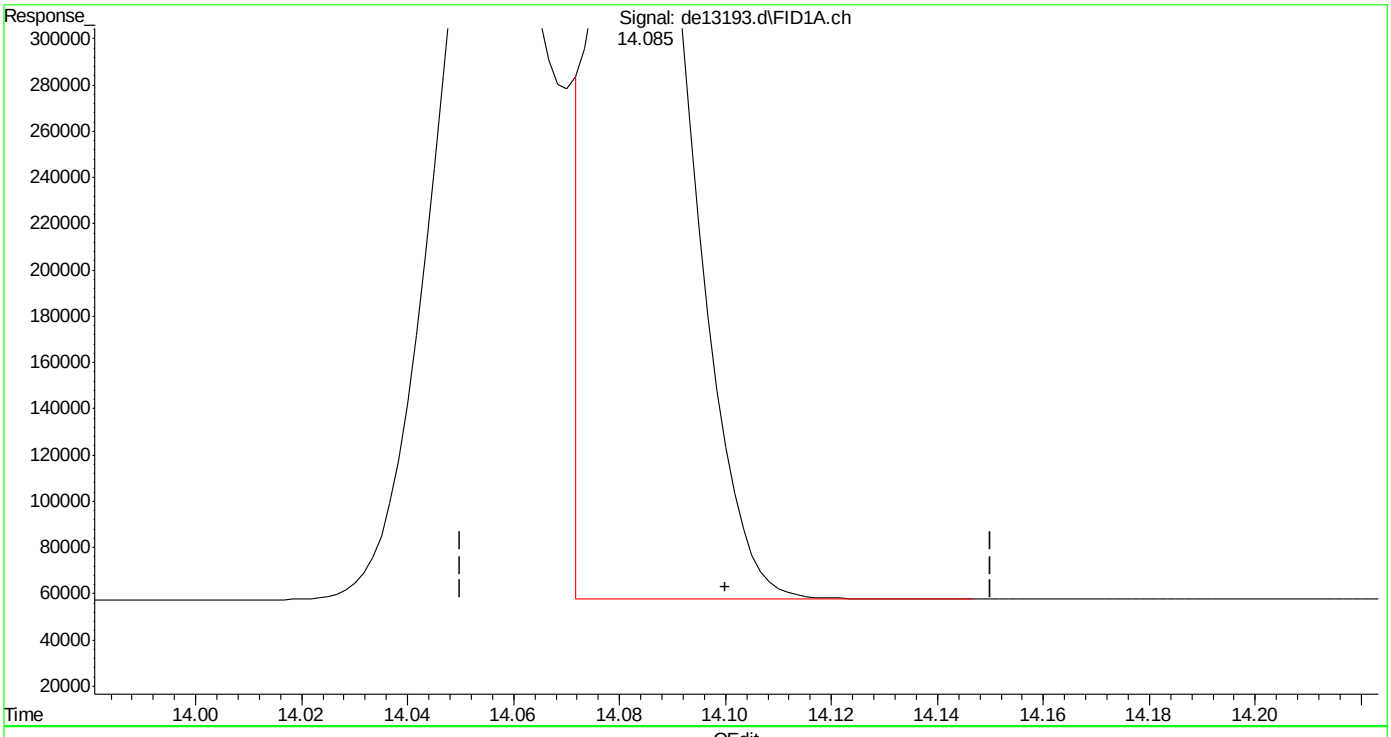
SGS ACCUTEST MC45580

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

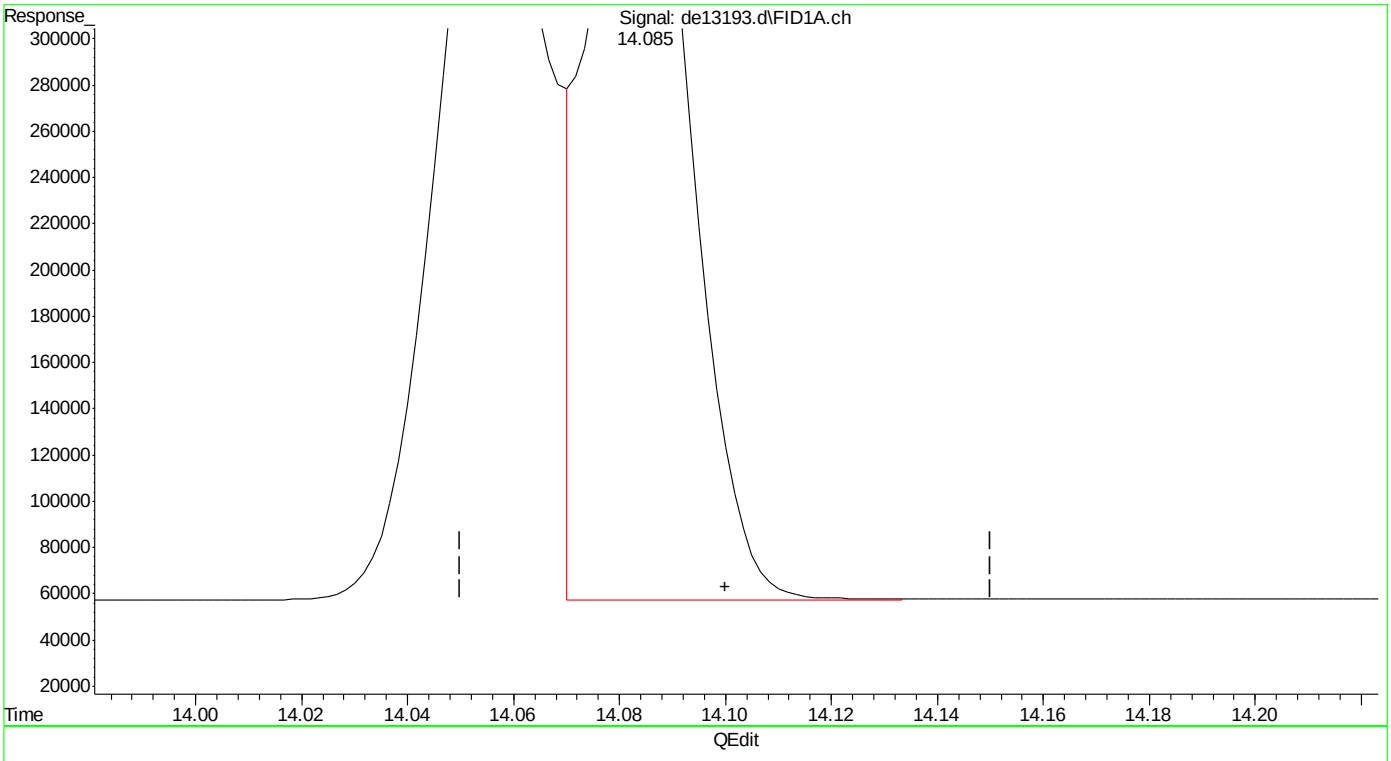
(+) = Expected Retention Time

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

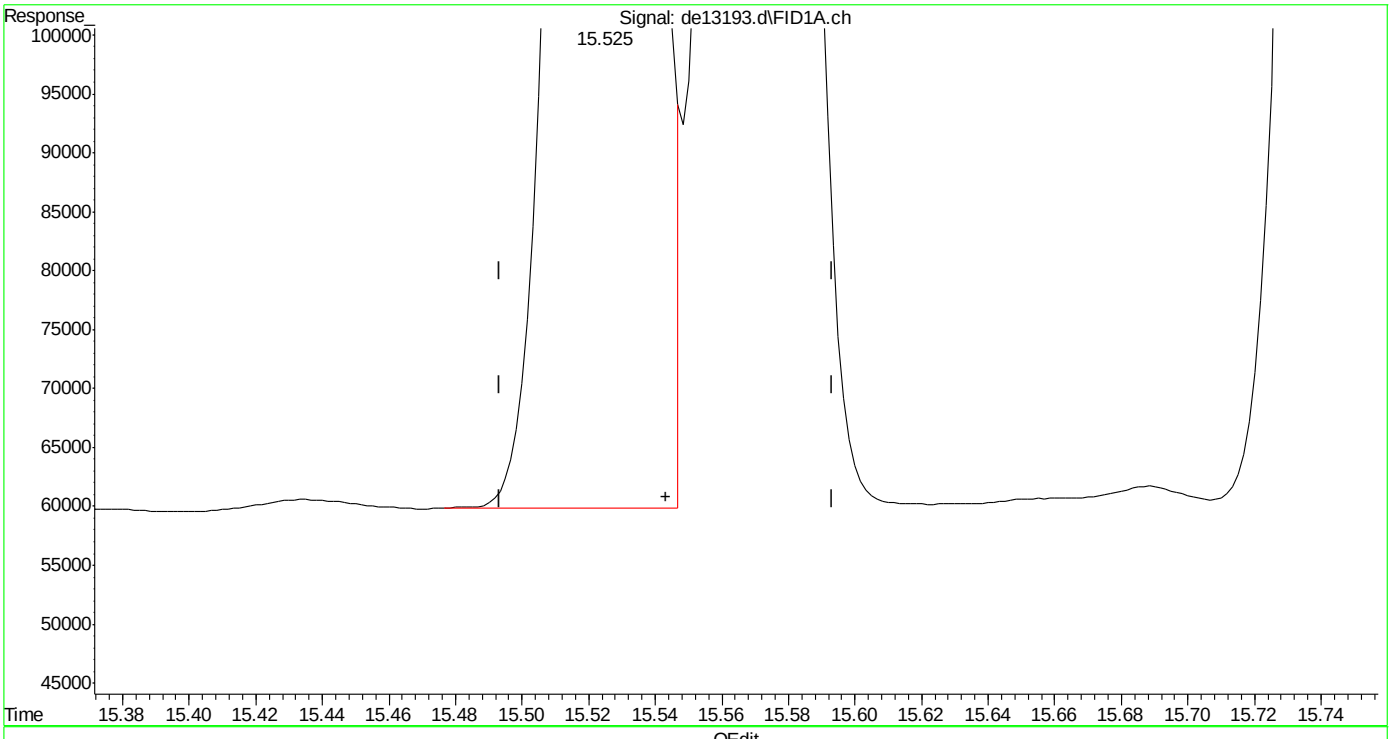
SGS ACCUTEST MC45580

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

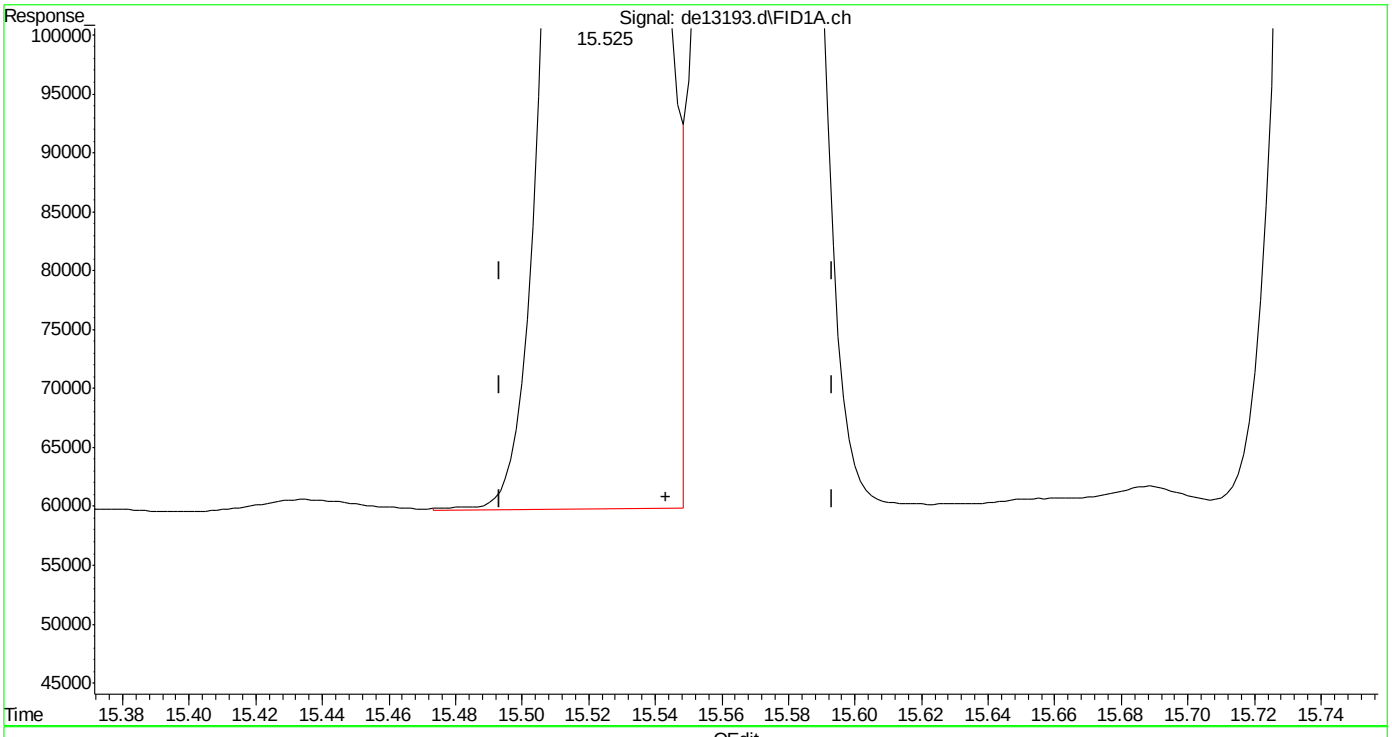
SGS ACCUTEST MC45580

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

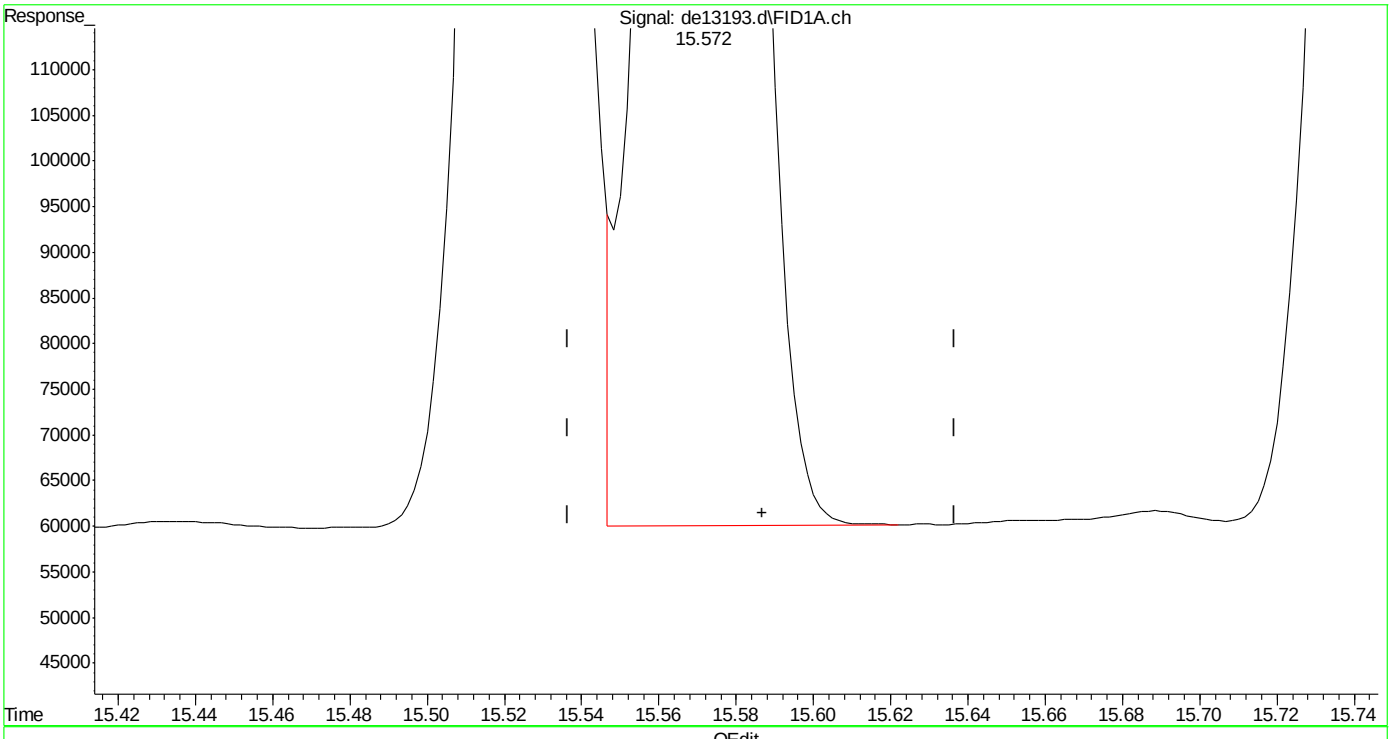
SGS ACCUTEST MC45580

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

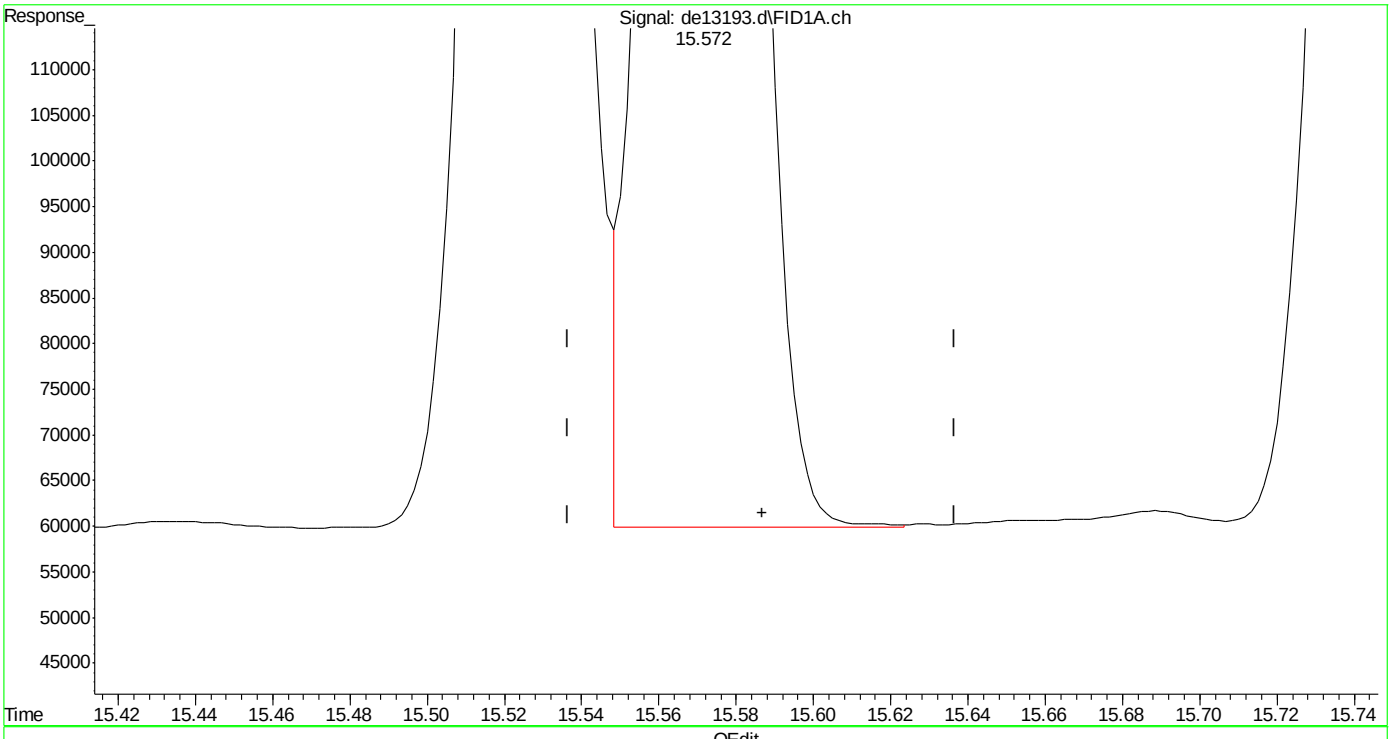
SGS ACCUTEST MC45580

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

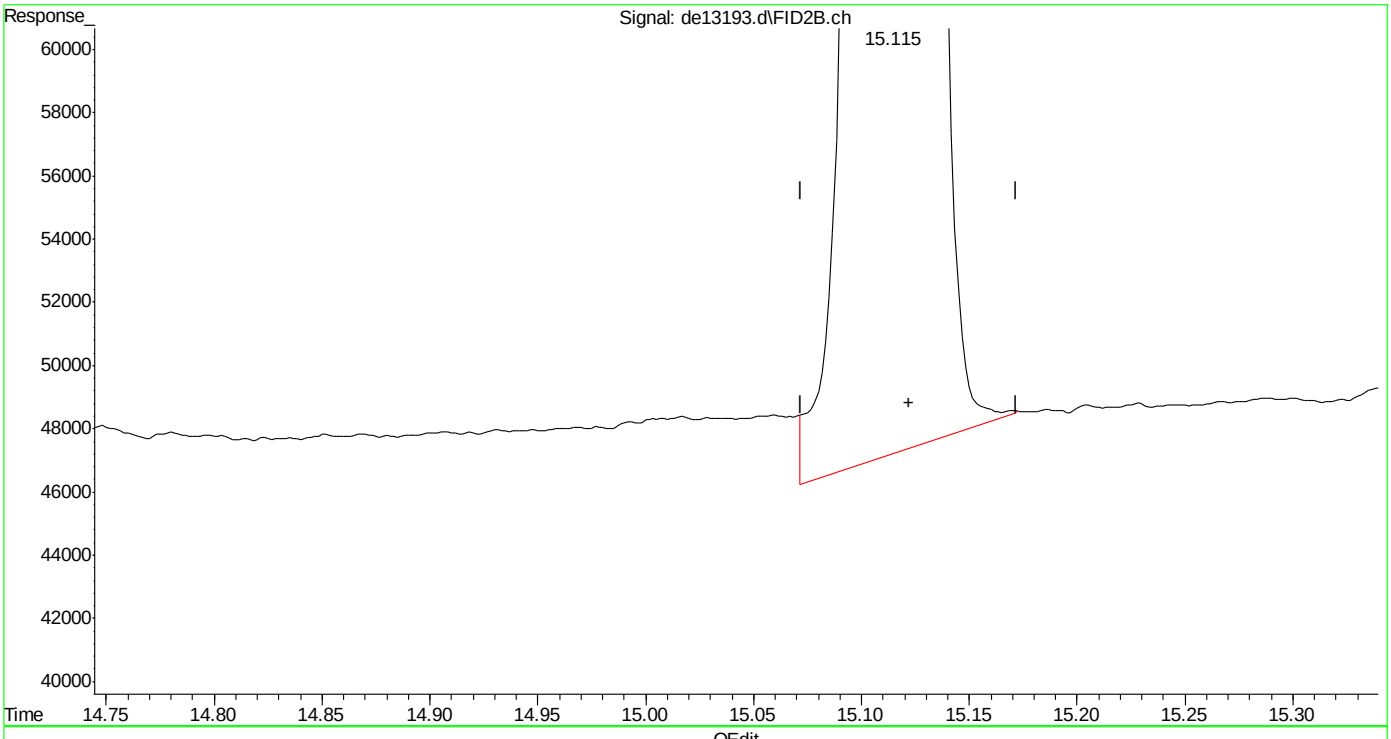
(+) = Expected Retention Time

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 MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.800	1923499	20.264 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 101.32%#	
6) s 2-bromonaphthalene	7.532	1318220	20.454 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.27%#	
11) s o-terphenyl	10.080	2144067	20.565 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 102.83%#	
35) s 1-chlorooctadecane	11.248	1182336	20.984 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 104.92%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	36131366	22.235 µg/mlm
2) naphthalene	5.352	2162719	20.282 µg/ml
3) 2-methylnaphthalene	6.250	2136209	20.220 µg/ml
5) acenaphthylene	7.368	2106441	20.279 µg/ml
7) acenaphthene	7.610	2170607	20.454 µg/ml
8) fluorene	8.253	2130652	20.455 µg/ml
9) phenanthrene	9.437	2129143	20.500 µg/ml
10) anthracene	9.493	2038508	20.982 µg/ml
12) fluoranthene	10.945	2077039	20.389 µg/ml
13) pyrene	11.203	2089957	20.238 µg/ml
14) benzo(a)anthracene	12.763	2002764	20.461 µg/ml
15) chrysene	12.812	2022589	20.496 µg/ml
16) benzo(B)fluoranthene	14.060	2094779	20.856 µg/mlm
17) benzo(k)fluoranthene	14.090	1953249	20.187 µg/mlm
18) benzo(a)pyrene	14.395	1927552	20.332 µg/ml
19) indeno(1,2,3-cd)pyrene	15.532	1948257	19.991 µg/ml
20) dibenzo(ah)anthracene	15.577	1933263	20.726 µg/ml
21) benzo(ghi)perylene	15.753	1916075	20.362 µg/ml
25) h c-9	2.680	1587594	20.952 µg/mlm
26) h c-10	3.833	1597831	20.904 µg/ml
27) naphthalene #2	5.512	1701488	21.332 µg/ml
28) c-12	5.687	1581613	20.810 µg/ml
29) 2-methylnaphthalene #2	6.405	1698114	20.825 µg/ml
30) c-14	7.203	1563771	20.568 µg/ml
31) c-16	8.532	1537180	20.338 µg/ml
32) c-18	9.727	1515877	20.257 µg/ml
33) c-19	10.282	1500139	20.556 µg/ml
34) c-20	10.813	1468089	20.532 µg/ml
36) c-22	11.808	1451343	20.601 µg/ml
37) c-24	12.727	1351453	20.219 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.580	1435543	20.577	µg/ml
39)		c-28	14.373	1385739	20.519	µg/ml
40)	h	c-30	15.122	1377048	20.029	µg/mlm
41)	h	c-36	17.010	1222680	20.011	µg/mlm

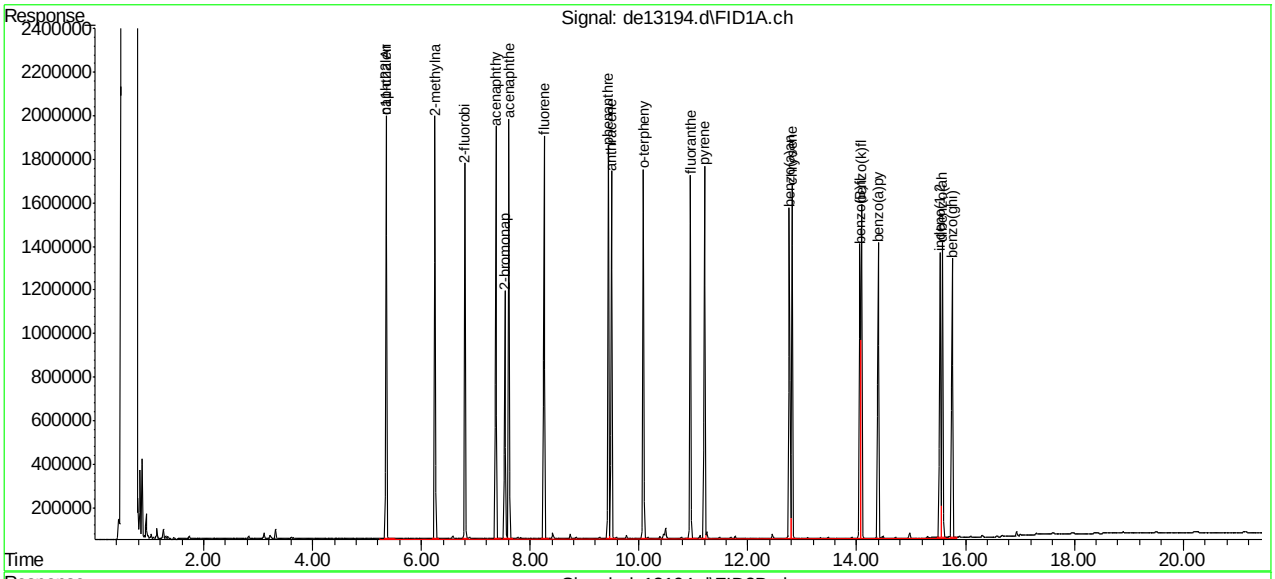
(f)=RT Delta > 1/2 Window (m)=manual int.

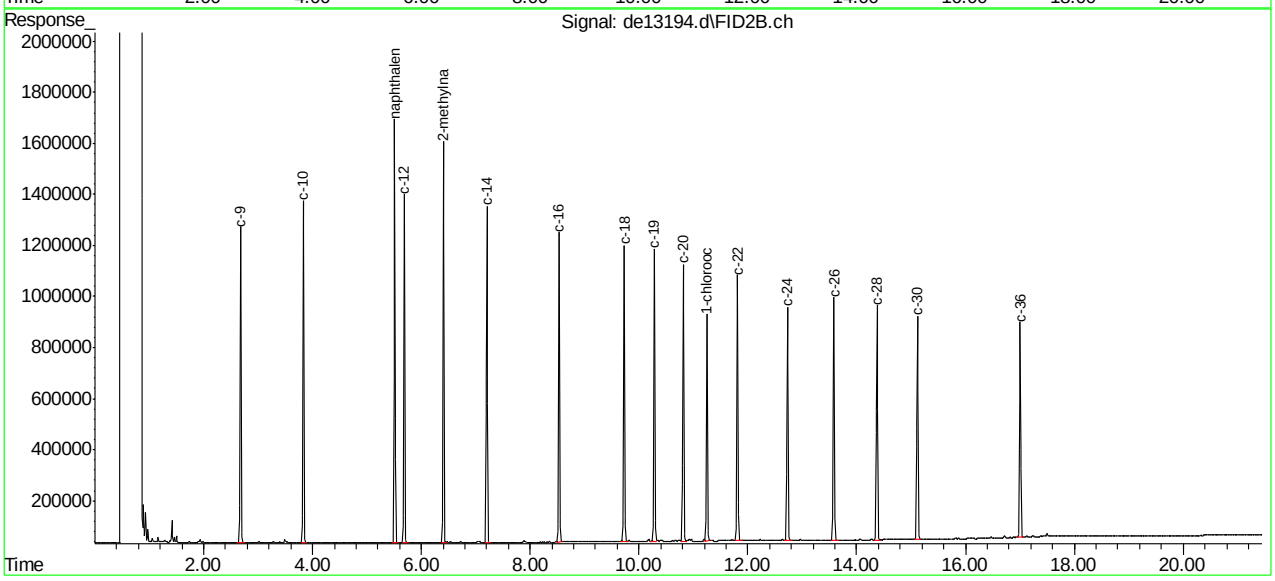
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

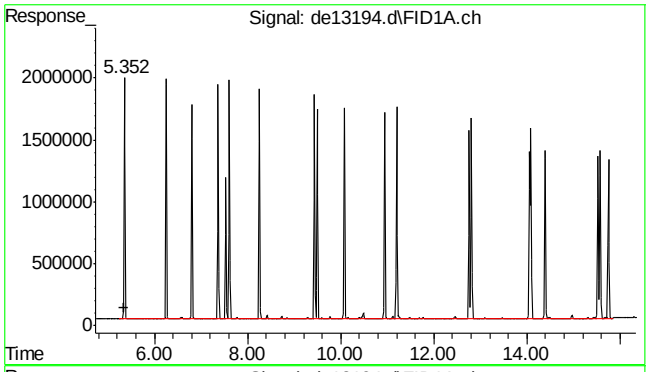
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:51:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



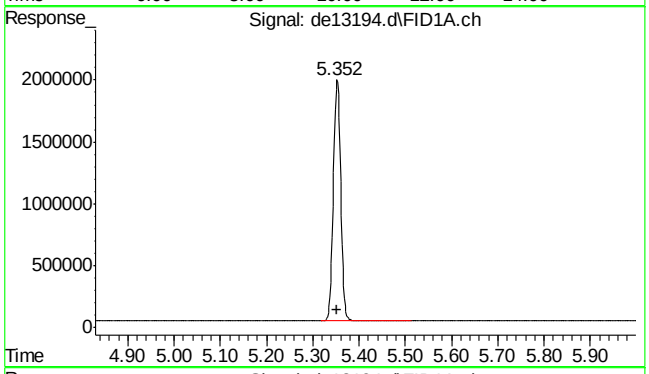


SGS ACCUTEST MC45580



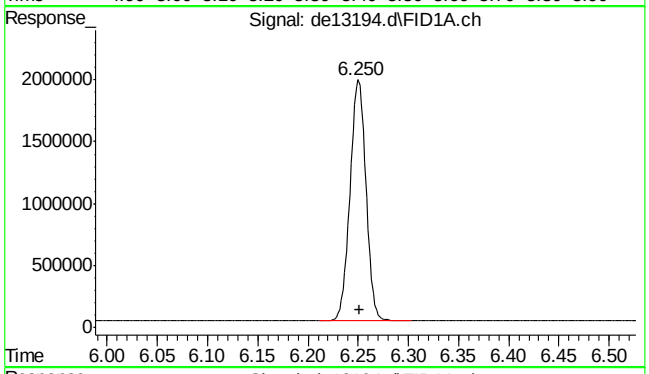
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 36131366
Conc: 22.24 µg/ml m



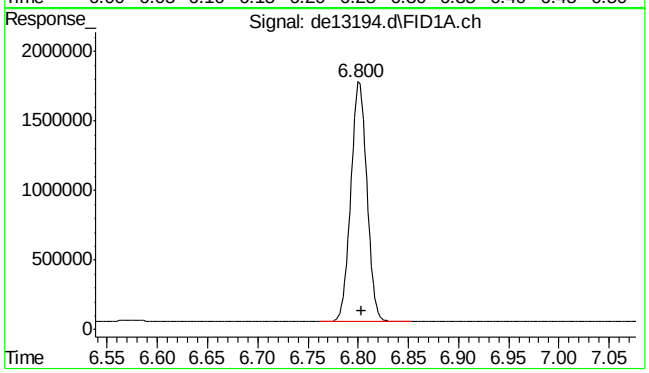
#2 naphthalene

R.T.: 5.352 min
Delta R.T.: -0.002 min
Response: 2162719
Conc: 20.28 µg/ml



#3 2-methylnaphthalene

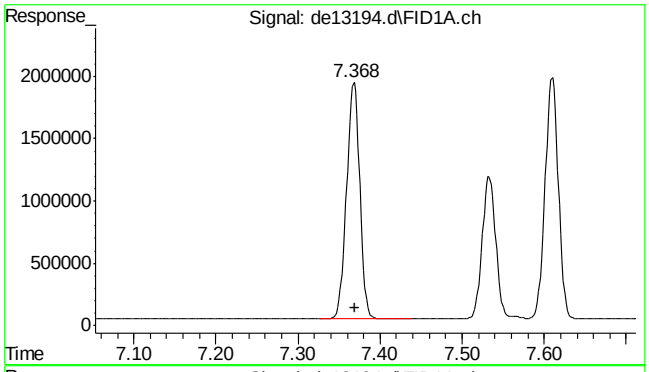
R.T.: 6.250 min
Delta R.T.: -0.002 min
Response: 2136209
Conc: 20.22 µg/ml



#4 2-fluorobiphenyl

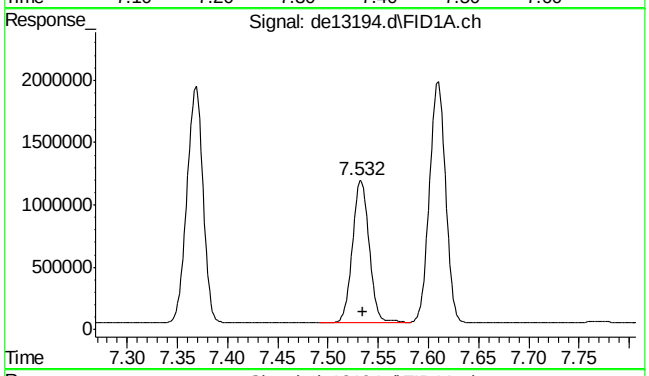
R.T.: 6.800 min
Delta R.T.: -0.003 min
Response: 1923499
Conc: 20.26 µg/ml

SGS ACCUTEST MC45580



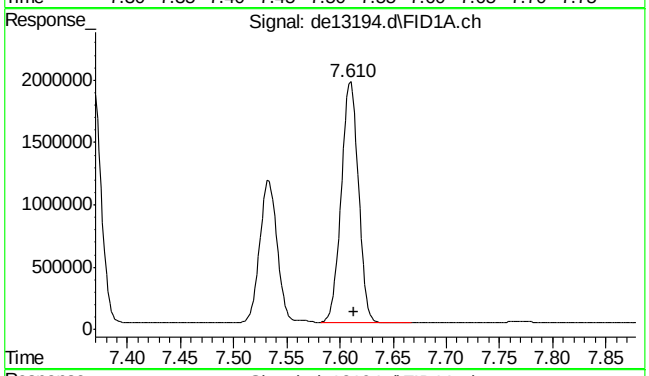
#5 acenaphthylene

R.T.: 7.368 min
Delta R.T.: -0.002 min
Response: 2106441
Conc: 20.28 µg/ml



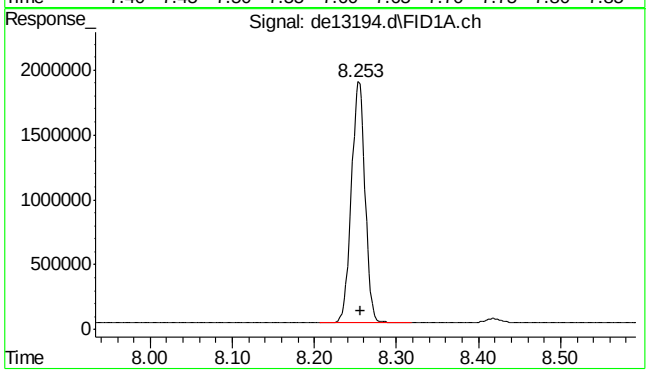
#6 2-bromonaphthalene

R.T.: 7.532 min
Delta R.T.: -0.003 min
Response: 1318220
Conc: 20.45 µg/ml



#7 acenaphthene

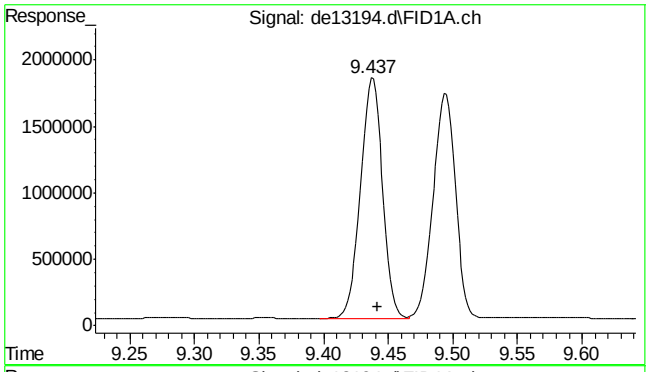
R.T.: 7.610 min
Delta R.T.: -0.003 min
Response: 2170607
Conc: 20.45 µg/ml



#8 fluorene

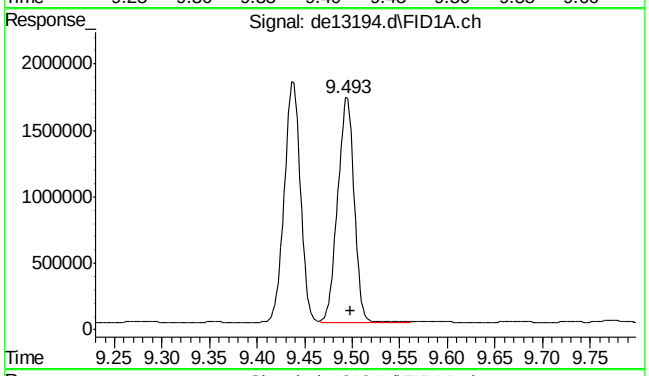
R.T.: 8.253 min
Delta R.T.: -0.003 min
Response: 2130652
Conc: 20.46 µg/ml

SGS ACCUTEST MC45580



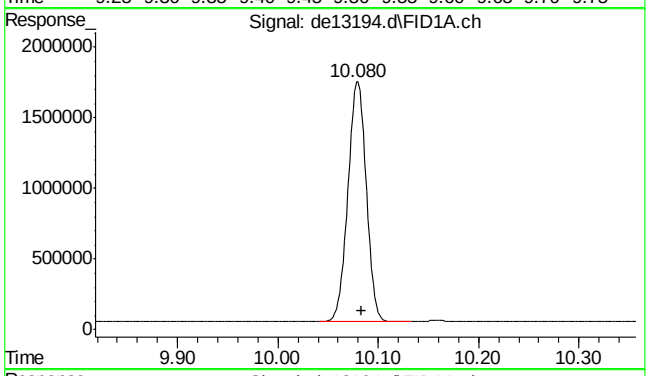
#9 phenanthrene

R.T.: 9.437 min
Delta R.T.: -0.005 min
Response: 2129143
Conc: 20.50 µg/ml



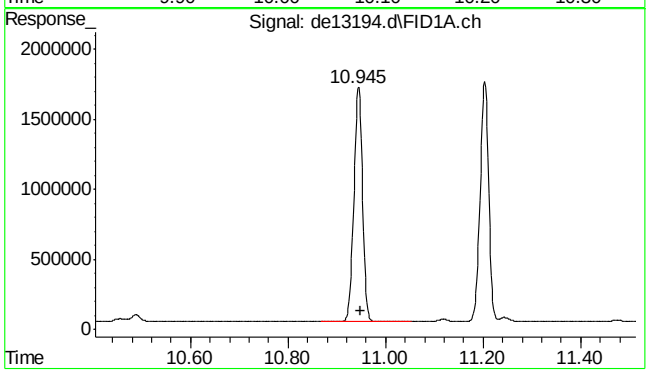
#10 anthracene

R.T.: 9.493 min
Delta R.T.: -0.005 min
Response: 2038508
Conc: 20.98 µg/ml



#11 o-terphenyl

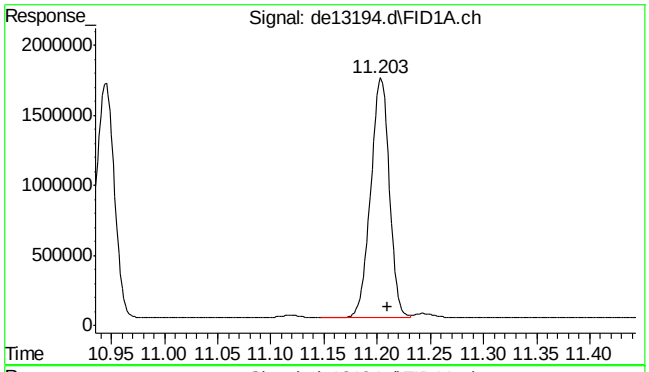
R.T.: 10.080 min
Delta R.T.: -0.003 min
Response: 2144067
Conc: 20.57 µg/ml



#12 fluoranthene

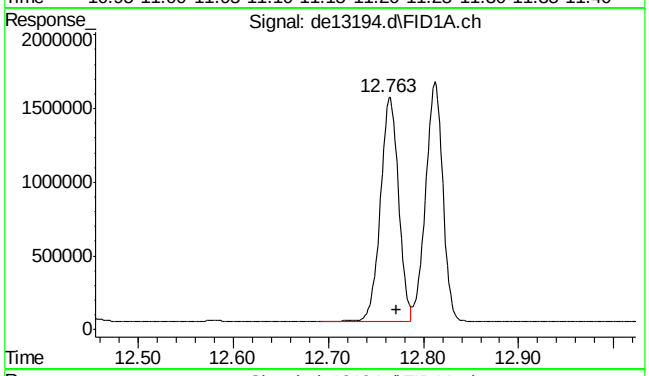
R.T.: 10.945 min
Delta R.T.: -0.003 min
Response: 2077039
Conc: 20.39 µg/ml

SGS ACCUTEST MC45580



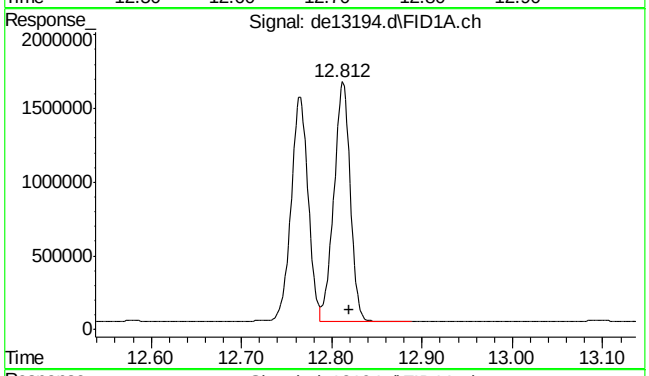
#13 pyrene

R.T.: 11.203 min
Delta R.T.: -0.007 min
Response: 2089957
Conc: 20.24 µg/ml



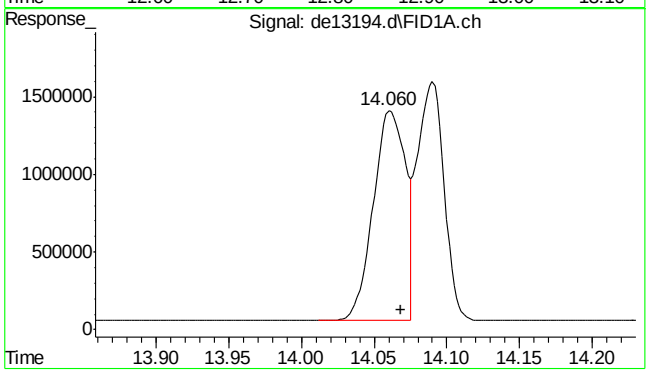
#14 benzo(a)anthracene

R.T.: 12.763 min
Delta R.T.: -0.008 min
Response: 2002764
Conc: 20.46 µg/ml



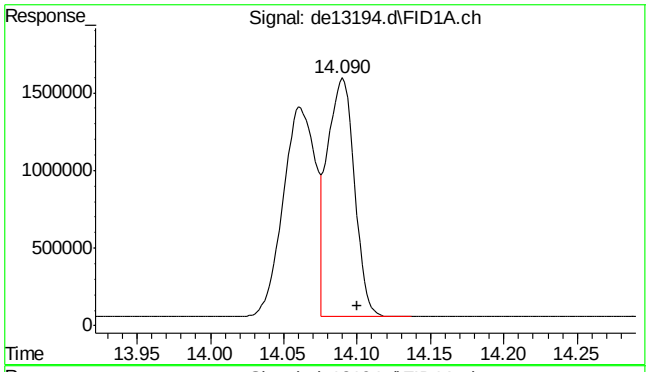
#15 chrysene

R.T.: 12.812 min
Delta R.T.: -0.008 min
Response: 2022589
Conc: 20.50 µg/ml



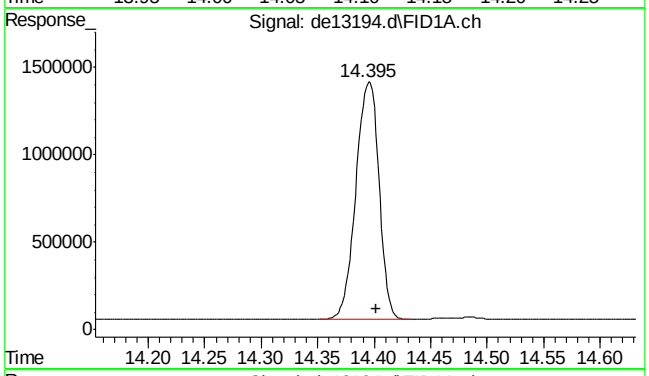
#16 benzo(B)fluoranthene

R.T.: 14.060 min
Delta R.T.: -0.008 min
Response: 2094779
Conc: 20.86 µg/ml m



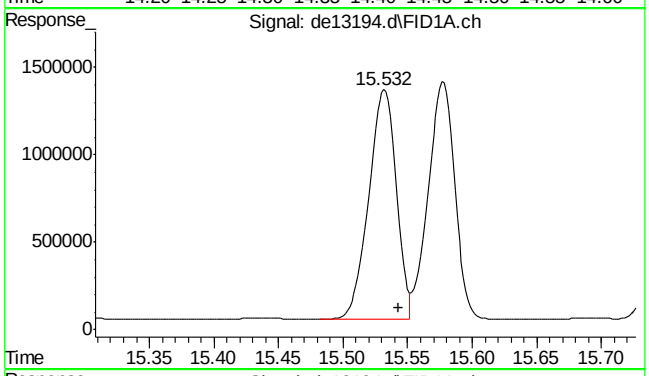
#17 benzo(k)fluoranthene

R.T.: 14.090 min
Delta R.T.: -0.010 min
Response: 1953249
Conc: 20.19 µg/ml m



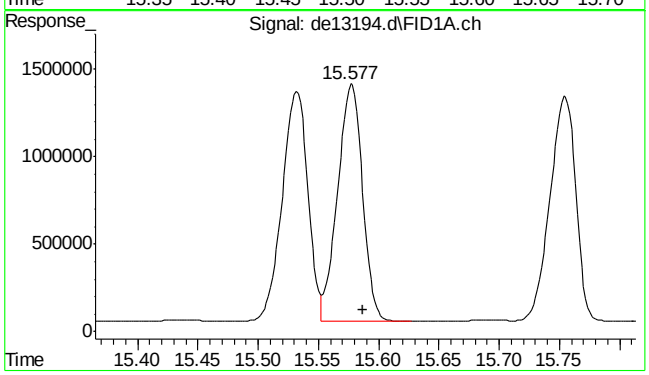
#18 benzo(a)pyrene

R.T.: 14.395 min
Delta R.T.: -0.007 min
Response: 1927552
Conc: 20.33 µg/ml



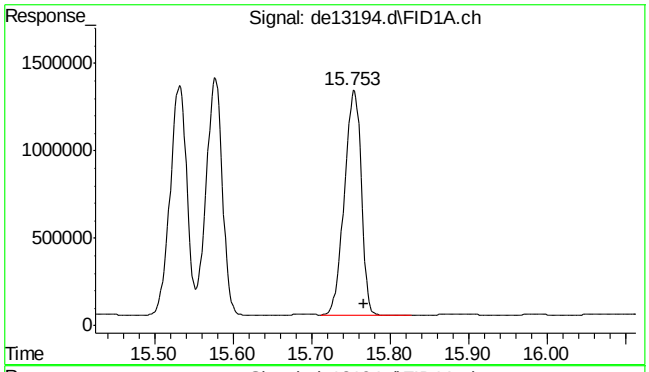
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.532 min
Delta R.T.: -0.012 min
Response: 1948257
Conc: 19.99 µg/ml



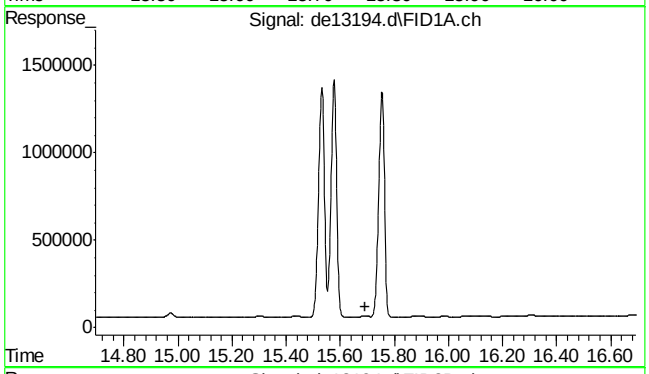
#20 dibenzo(ah)anthracene

R.T.: 15.577 min
Delta R.T.: -0.010 min
Response: 1933263
Conc: 20.73 µg/ml



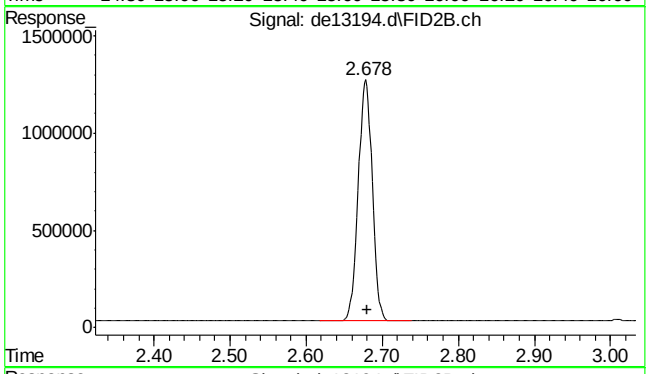
#21 benzo(ghi)perylene

R.T.: 15.753 min
Delta R.T.: -0.013 min
Response: 1916075
Conc: 20.36 µg/ml



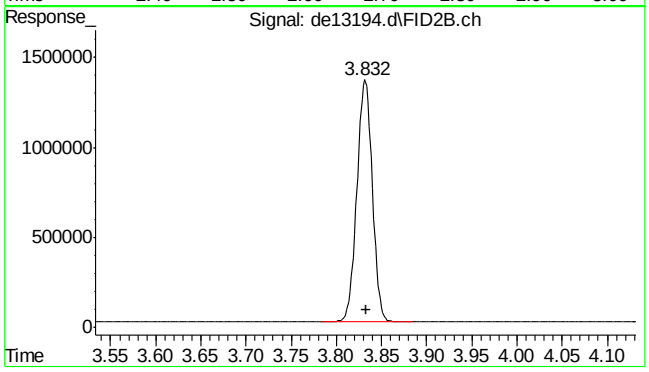
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

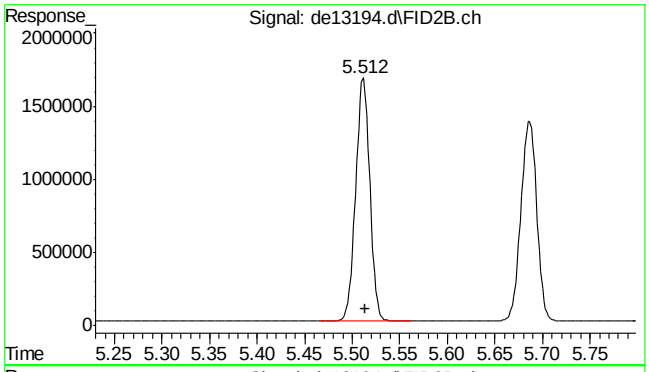
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 1587594
Conc: 20.95 µg/ml m



#26 c-10

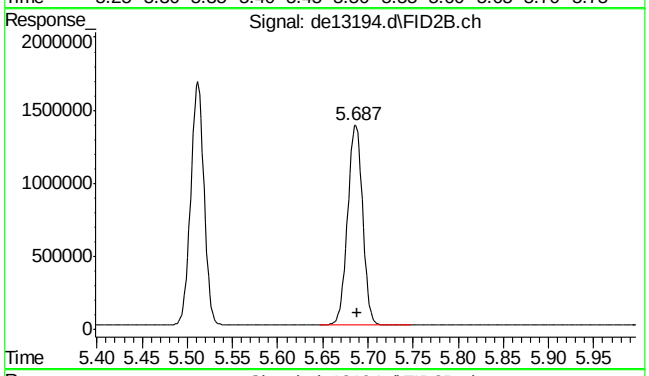
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 1597831
Conc: 20.90 µg/ml

SGS ACCUTEST MC45580



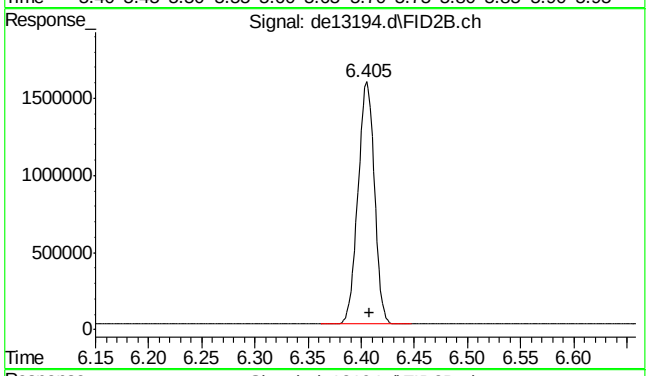
#27 naphthalene #2

R.T.: 5.512 min
Delta R.T.: -0.002 min
Response: 1701488
Conc: 21.33 µg/ml



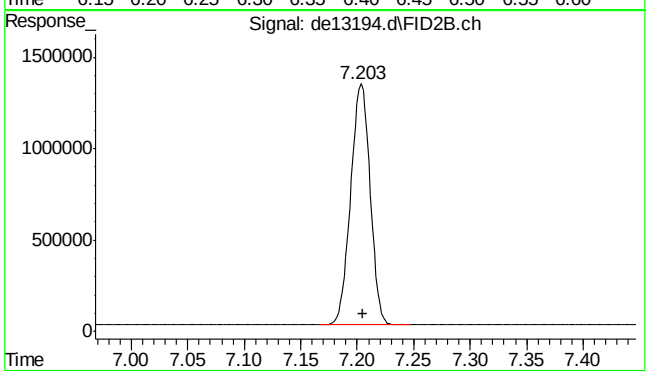
#28 c-12

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



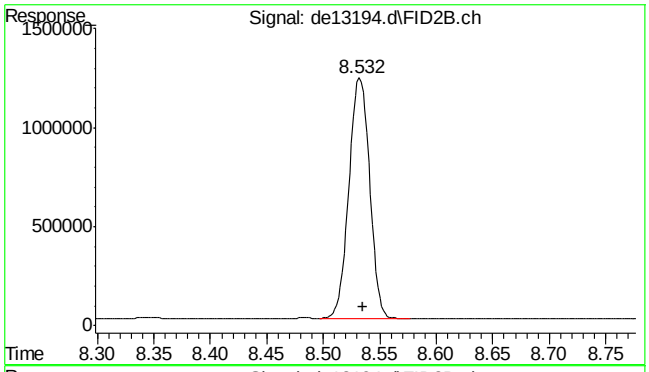
#30 c-14

R.T.: 7.203 min
Delta R.T.: -0.002 min
Response: 1563771
Conc: 20.57 µg/ml

9.5.4

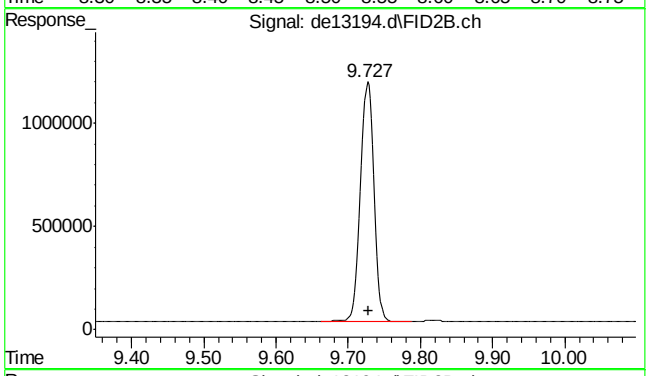
9

SGS ACCUTEST MC45580



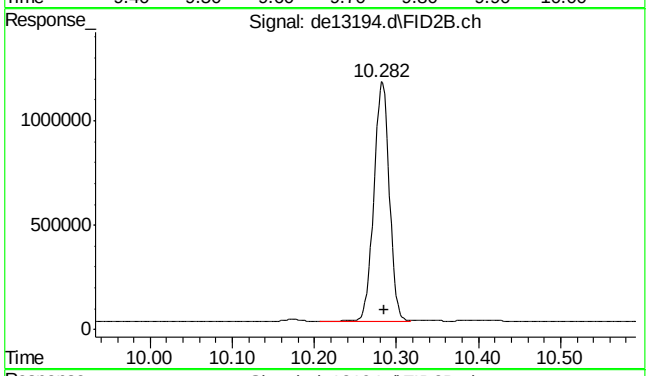
#31 c-16

R.T.: 8.532 min
Delta R.T.: -0.003 min
Response: 1537180
Conc: 20.34 µg/ml



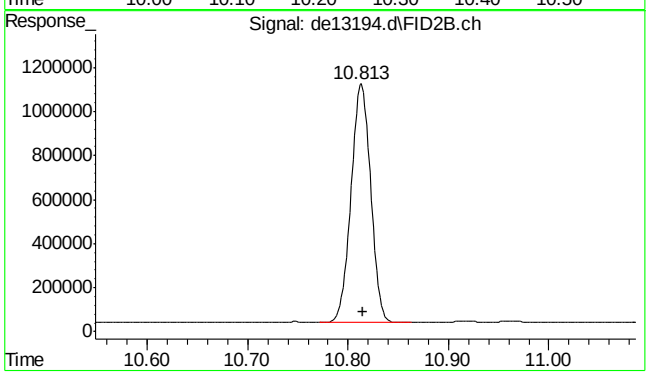
#32 c-18

R.T.: 9.727 min
Delta R.T.: -0.002 min
Response: 1515877
Conc: 20.26 µg/ml



#33 c-19

R.T.: 10.282 min
Delta R.T.: -0.003 min
Response: 1500139
Conc: 20.56 µg/ml



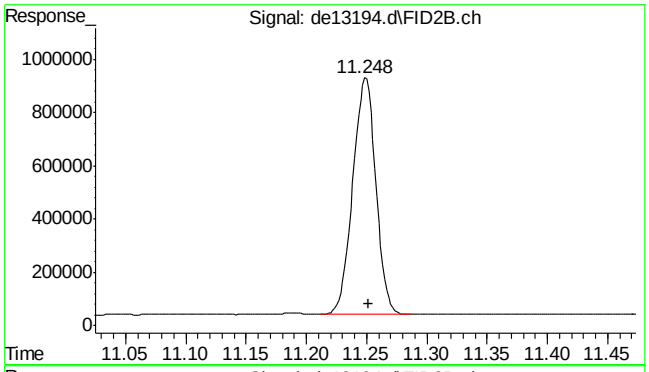
#34 c-20

R.T.: 10.813 min
Delta R.T.: -0.002 min
Response: 1468089
Conc: 20.53 µg/ml

9.5.4

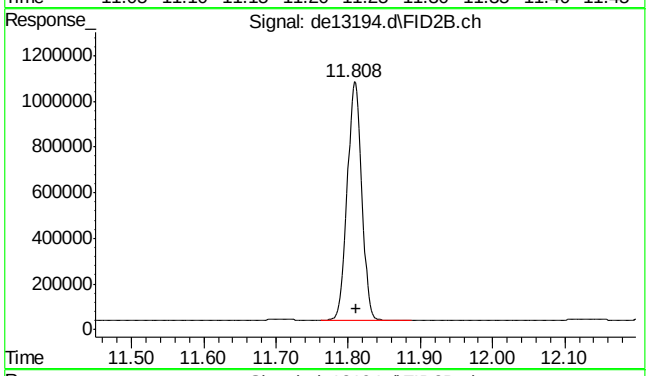
9

SGS ACCUTEST MC45580



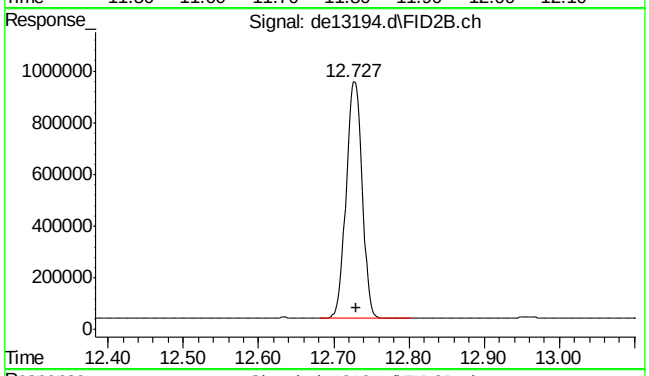
#35 1-chlorooctadecane

R.T.: 11.248 min
Delta R.T.: -0.003 min
Response: 1182336
Conc: 20.98 µg/ml



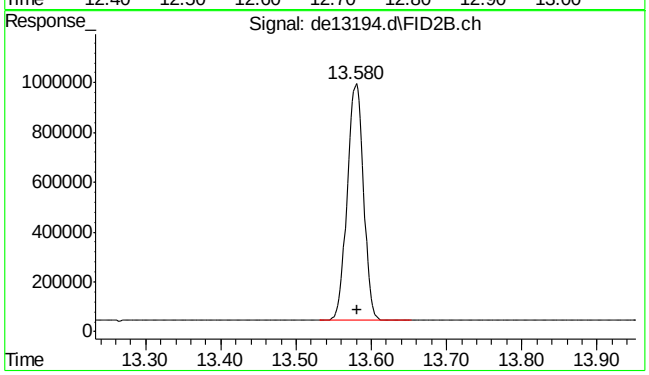
#36 c-22

R.T.: 11.808 min
Delta R.T.: -0.003 min
Response: 1451343
Conc: 20.60 µg/ml



#37 c-24

R.T.: 12.727 min
Delta R.T.: -0.003 min
Response: 1351453
Conc: 20.22 µg/ml



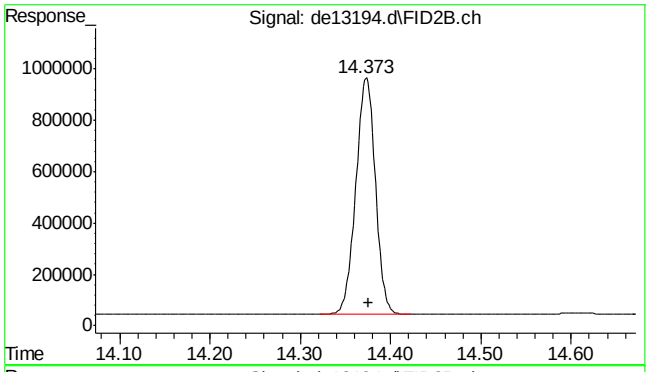
#38 c-26

R.T.: 13.580 min
Delta R.T.: -0.002 min
Response: 1435543
Conc: 20.58 µg/ml

9.5.4

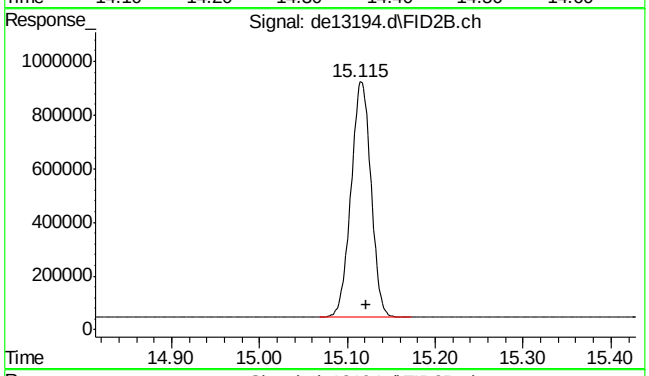
9

SGS ACCUTEST MC45580



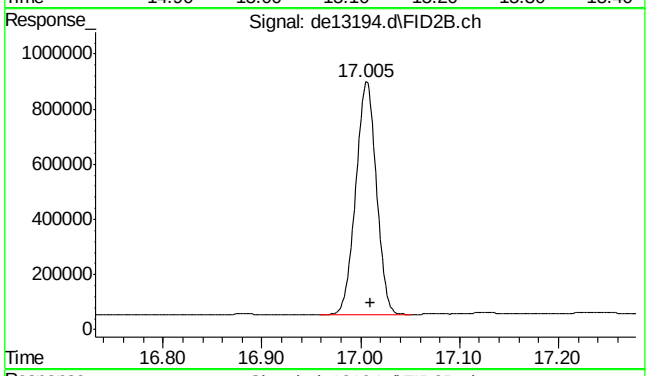
#39 c-28

R.T.: 14.373 min
Delta R.T.: -0.002 min
Response: 1385739
Conc: 20.52 µg/ml



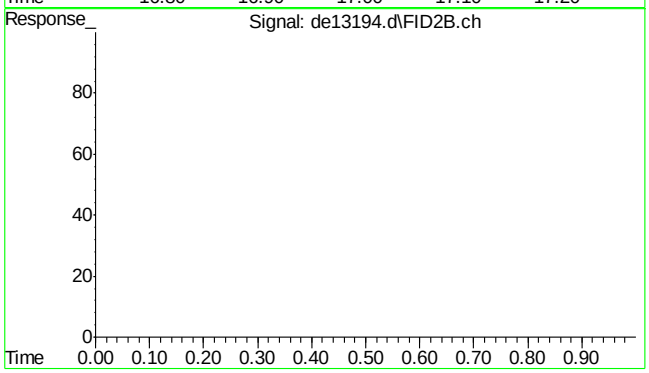
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 1377048
Conc: 20.03 µg/ml m



#41 c-36

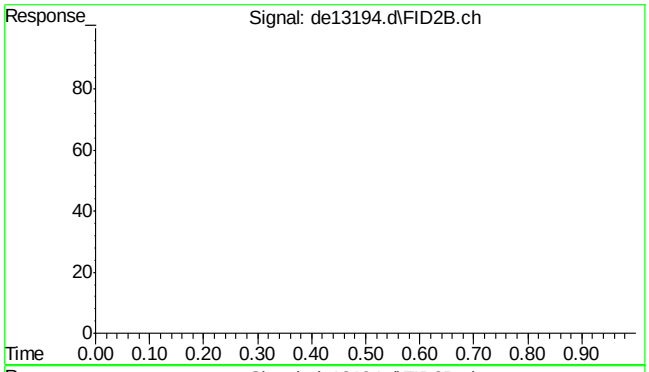
R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 1222680
Conc: 20.01 µg/ml m



#42 bht

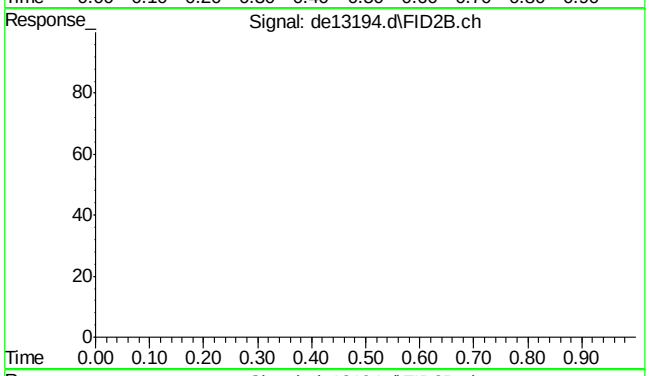
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45580



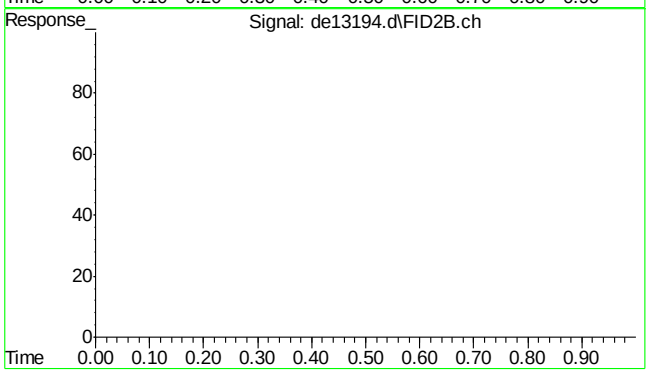
#43 bht

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



#44 bht

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



#45 bht

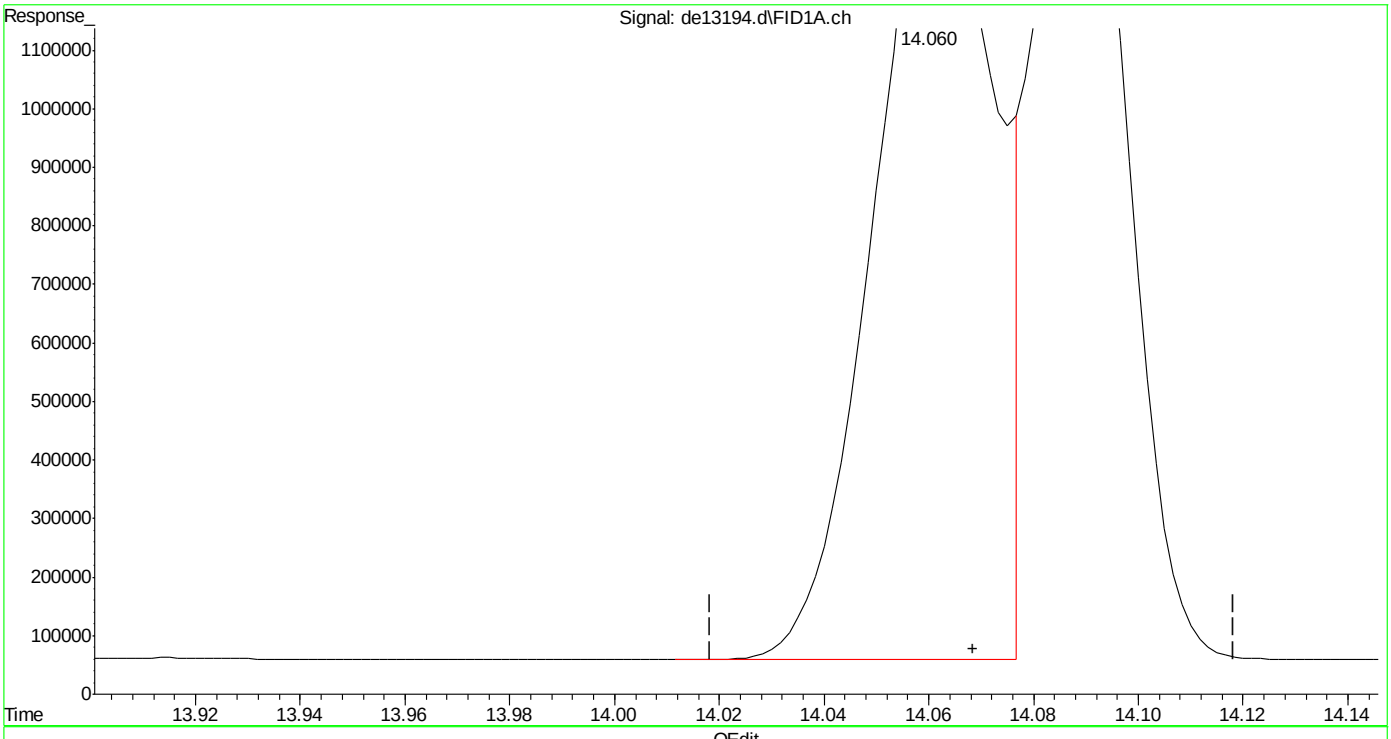
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.060min 21.786 µg/ml
response 2188193

(+) = Expected Retention Time

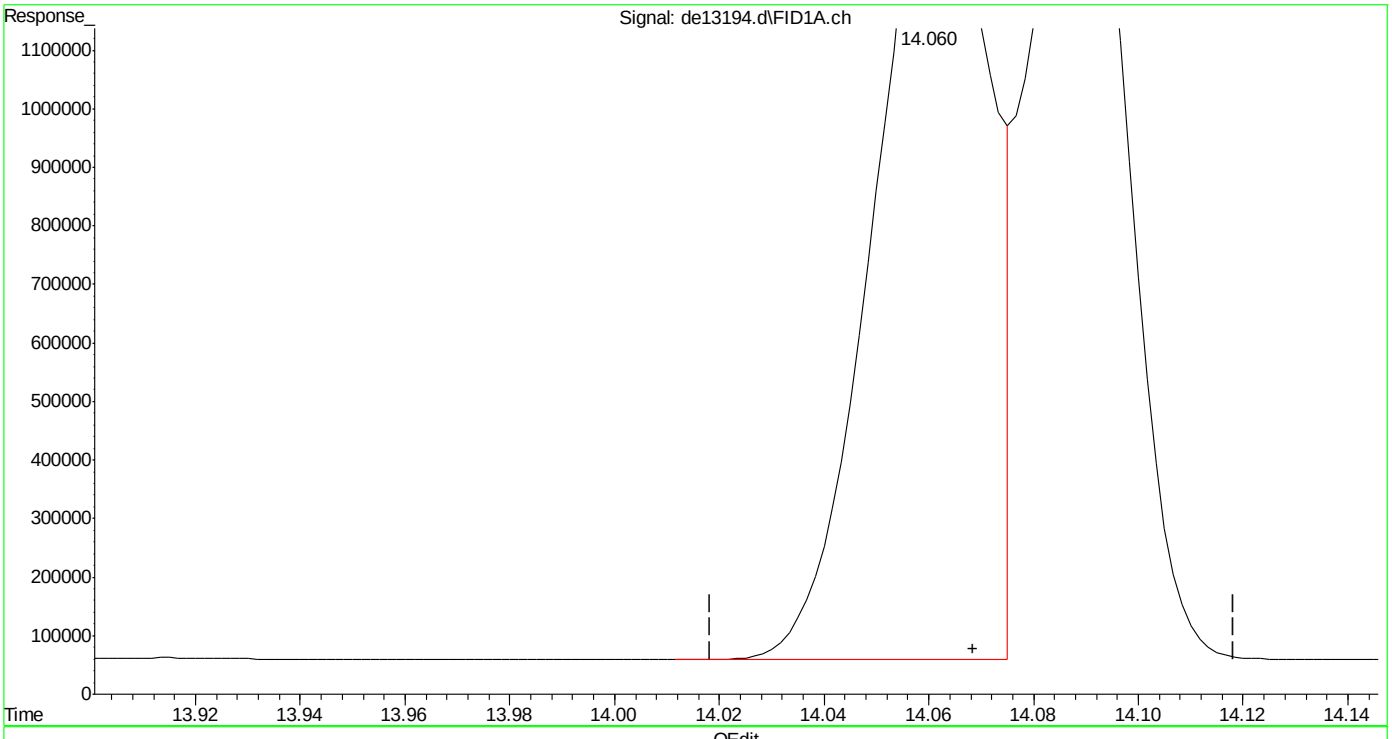
SGS ACCUTEST MC45580

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

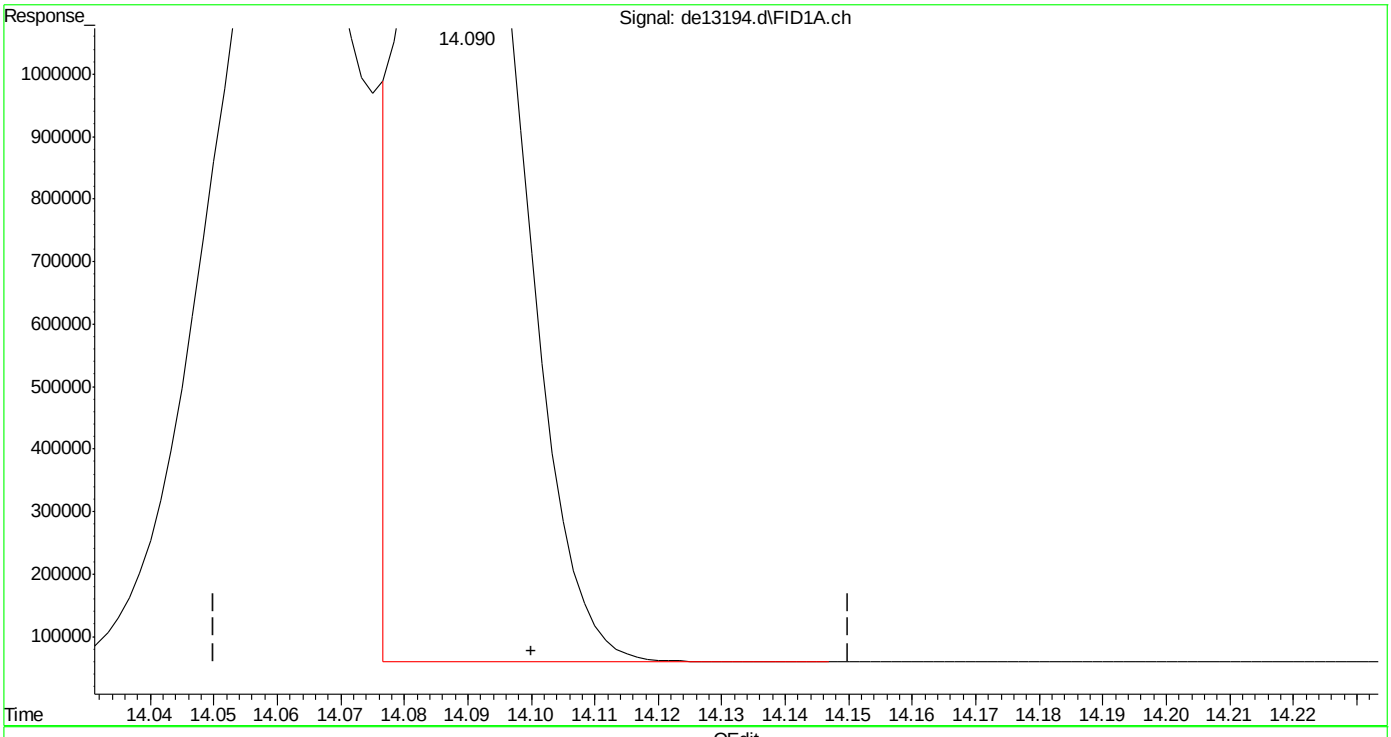
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.090min 19.228 µg/ml
response 1860456

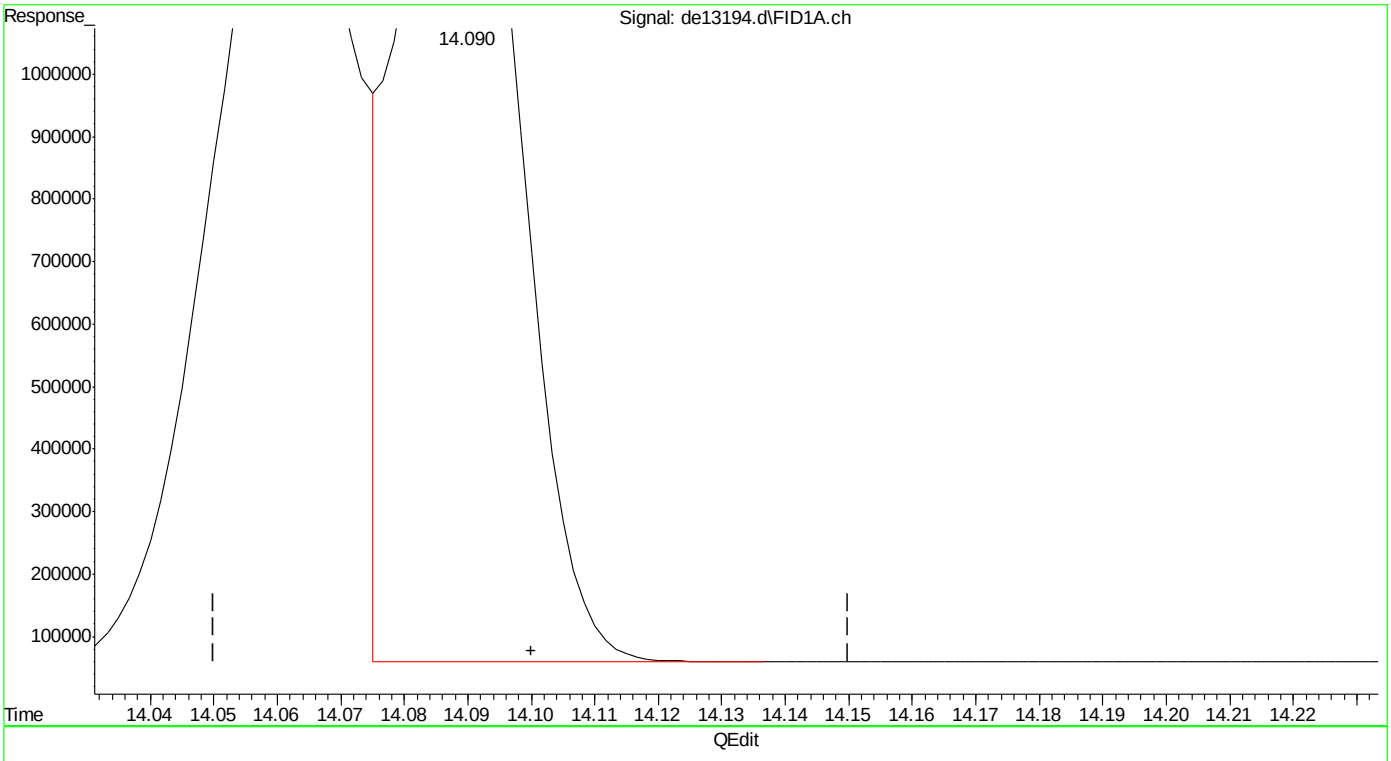
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.090min 20.187 µg/ml m
response 1953249

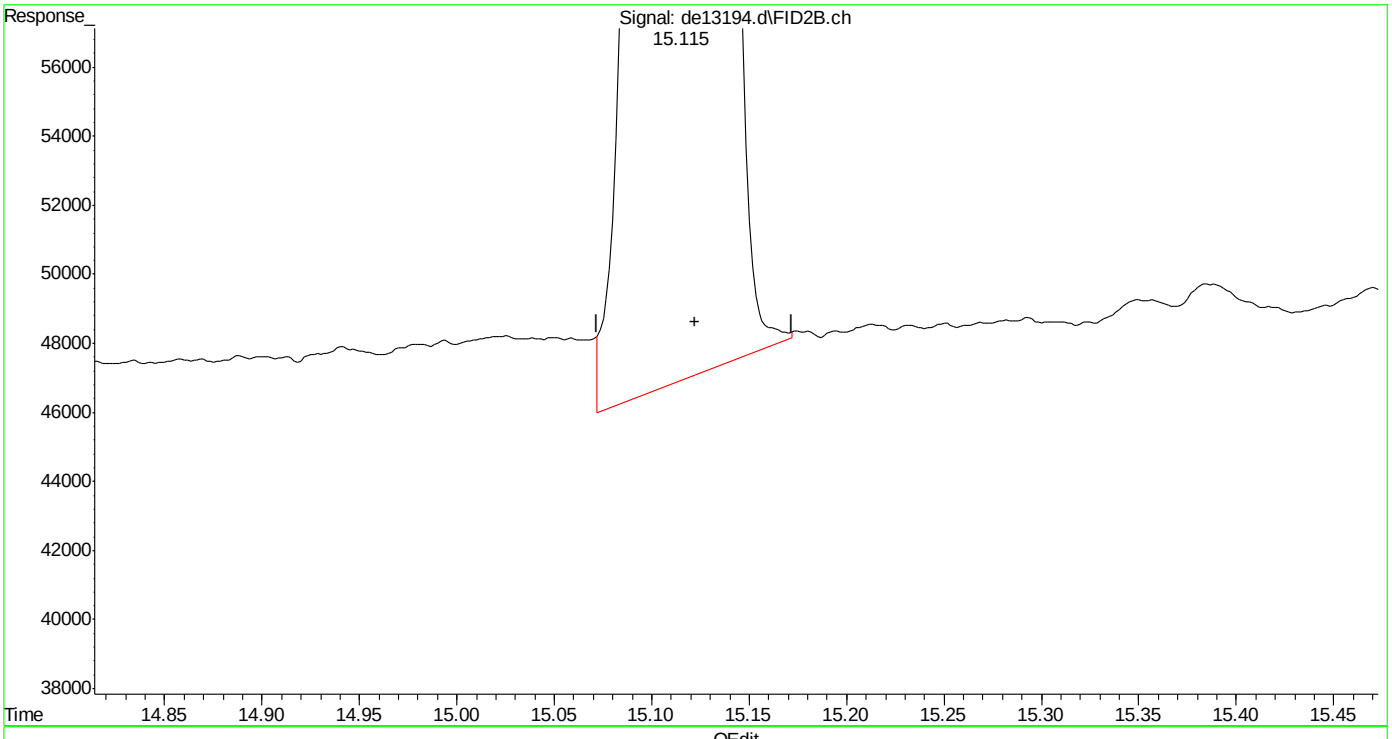
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13194.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:31 pm
Operator : thomasa
Sample : ic735-20
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:47:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:46:52 2016
Response via : Initial Calibration
Integrator: RTE

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



(40) c-30 (h)
15.122min 20.114 µg/ml
response 1382917

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.803	4755859	50.970 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 254.85%#	
6) s 2-bromonaphthalene	7.535	3250284	51.239 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 256.19%#	
11) s o-terphenyl	10.083	5257542	50.987 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 254.94%#	
35) s 1-chlorooctadecane	11.252	2679754	47.467 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 237.33%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	87424928	52.817 µg/mlm
2) naphthalene	5.353	5345223	51.089 µg/ml
3) 2-methylnaphthalene	6.252	5287222	50.952 µg/ml
5) acenaphthylene	7.370	5189849	50.857 µg/ml
7) acenaphthene	7.613	5354326	51.245 µg/ml
8) fluorene	8.257	5242546	51.074 µg/ml
9) phenanthrene	9.442	5223164	50.912 µg/ml
10) anthracene	9.498	4970359	51.417 µg/ml
12) fluoranthene	10.948	5079973	50.440 µg/ml
13) pyrene	11.210	5123787	50.161 µg/ml
14) benzo(a)anthracene	12.772	4883350	50.327 µg/ml
15) chrysene	12.820	4951740	50.659 µg/ml
16) benzo(B)fluoranthene	14.068	4980192	49.821 µg/ml
17) benzo(k)fluoranthene	14.100	4922694	51.393 µg/ml
18) benzo(a)pyrene	14.402	4724847	50.445 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4854725	50.326 µg/mlm
20) dibenzo(ah)anthracene	15.587	4685536	50.795 µg/mlm
21) benzo(ghi)perylene	15.767	4705124	50.470 µg/ml
25) h c-9	2.680	3541836	46.375 µg/mlm
26) h c-10	3.833	3570776	46.367 µg/ml
27) naphthalene #2	5.513	3805435	47.627 µg/ml
28) c-12	5.688	3545795	46.341 µg/ml
29) 2-methylnaphthalene #2	6.408	3803724	46.794 µg/ml
30) c-14	7.205	3516096	46.029 µg/ml
31) c-16	8.535	3450251	45.521 µg/ml
32) c-18	9.728	3414559	45.531 µg/ml
33) c-19	10.285	3383527	46.150 µg/ml
34) c-20	10.815	3319667	46.221 µg/ml
36) c-22	11.812	3288115	46.440 µg/ml
37) c-24	12.730	3065680	45.782 µg/ml

SGS ACCUTEST MC45580

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.582	3260990	46.520	µg/ml
39)		c-28	14.375	3155644	46.526	µg/ml
40)	h	c-30	15.122	3152151	45.837	µg/ml
41)	h	c-36	17.010	2883025	47.180	µg/mlm

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

9.5.5

9

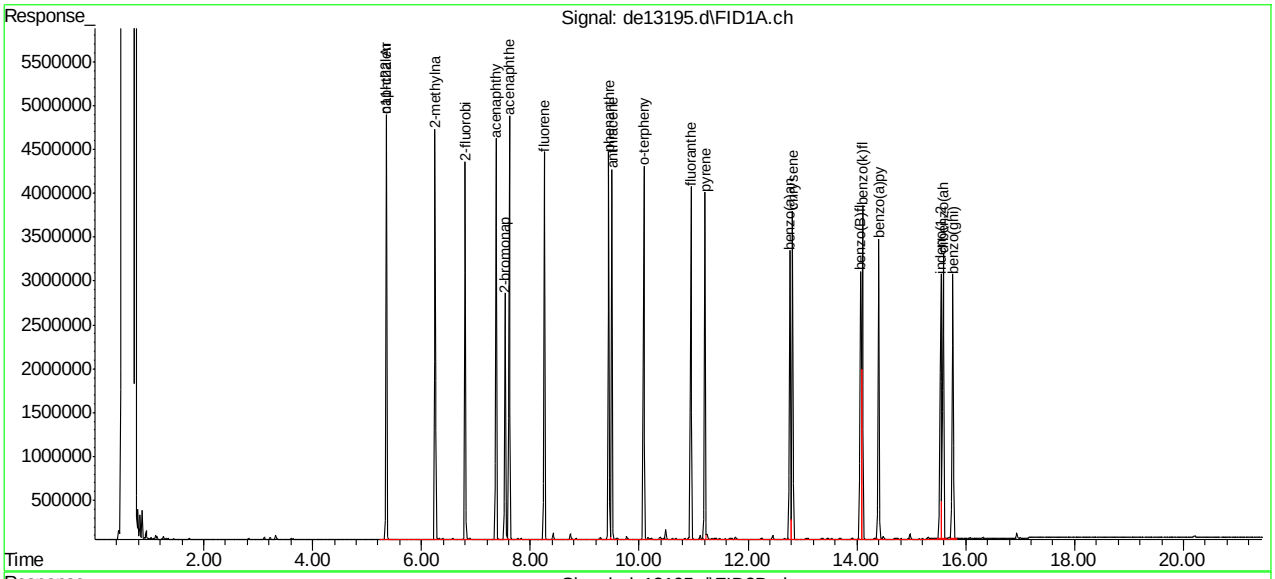
SGS ACCUTEST MC45580

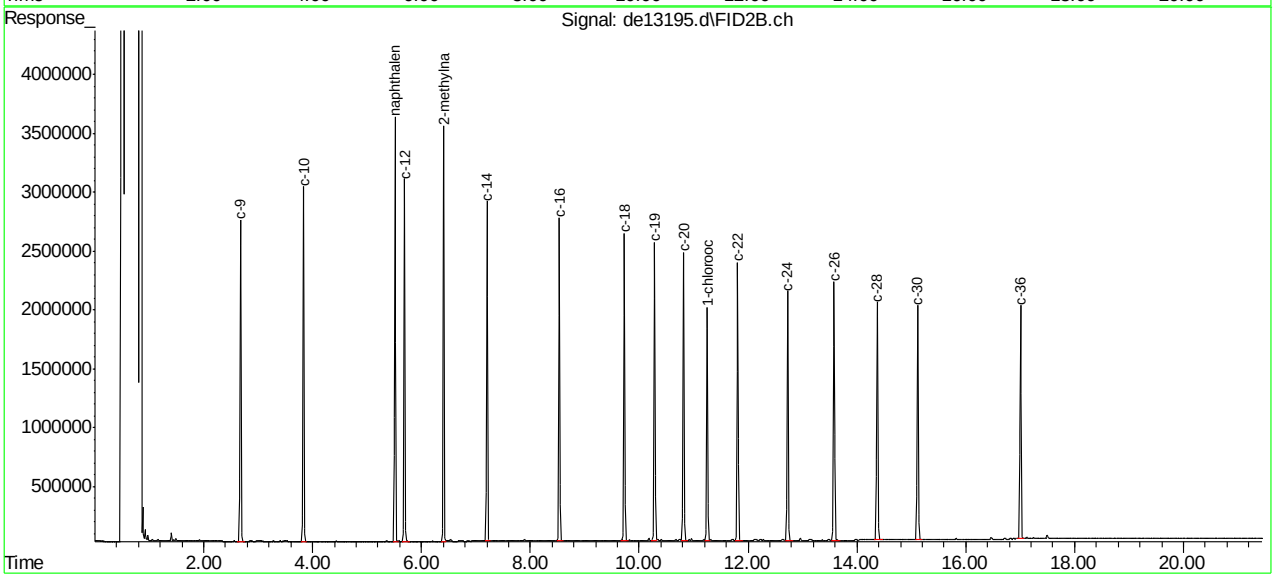
Quantitation Report (QT Reviewed)

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

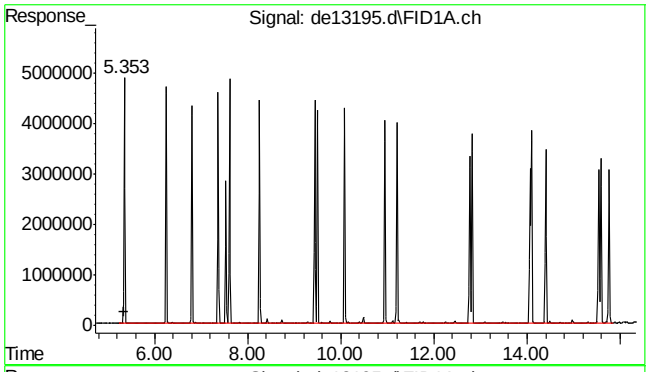
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:57:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



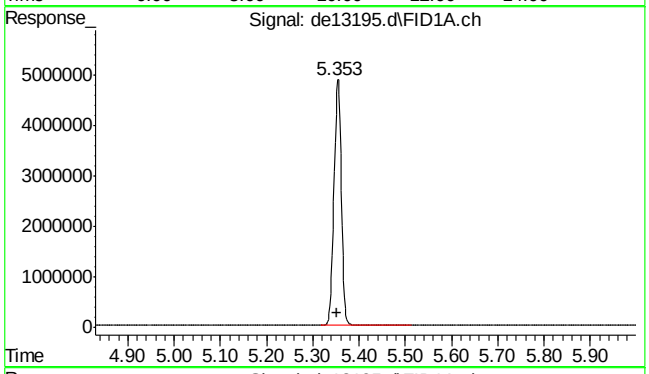


SGS ACCUTEST MC45580



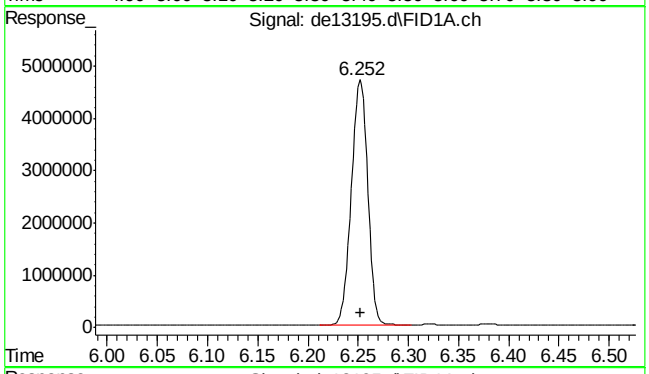
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 87424928
Conc: 52.82 µg/ml m



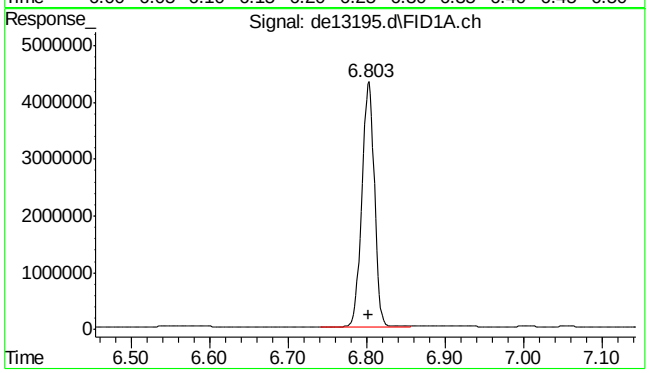
#2 naphthalene

R.T.: 5.353 min
Delta R.T.: 0.000 min
Response: 5345223
Conc: 51.09 µg/ml



#3 2-methylnaphthalene

R.T.: 6.252 min
Delta R.T.: 0.000 min
Response: 5287222
Conc: 50.95 µg/ml



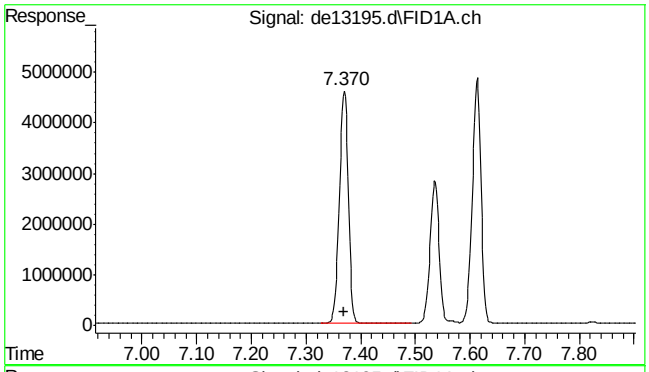
#4 2-fluorobiphenyl

R.T.: 6.803 min
Delta R.T.: 0.000 min
Response: 4755859
Conc: 50.97 µg/ml

9.5.5

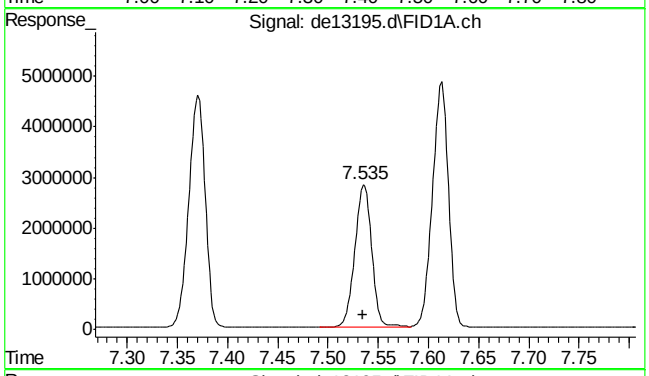
9

SGS ACCUTEST MC45580



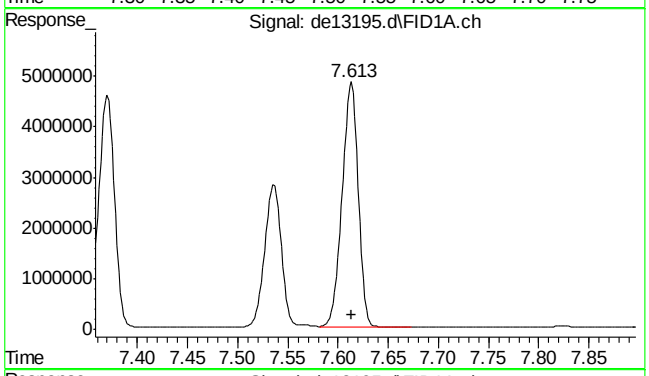
#5 acenaphthylene

R.T.: 7.370 min
Delta R.T.: 0.000 min
Response: 5189849
Conc: 50.86 µg/ml



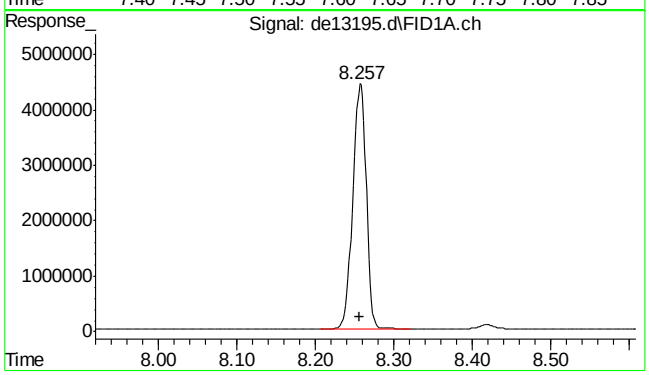
#6 2-bromonaphthalene

R.T.: 7.535 min
Delta R.T.: 0.000 min
Response: 3250284
Conc: 51.24 µg/ml



#7 acenaphthene

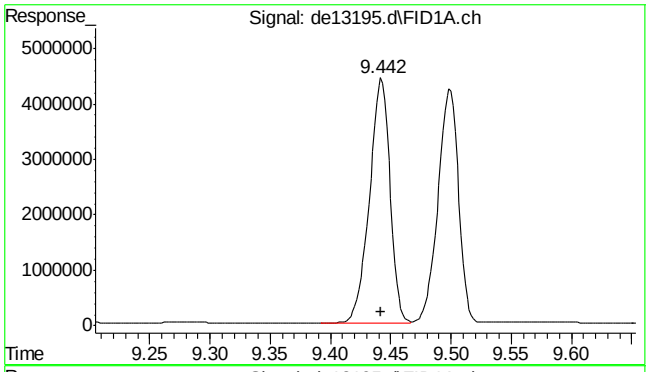
R.T.: 7.613 min
Delta R.T.: 0.000 min
Response: 5354326
Conc: 51.25 µg/ml



#8 fluorene

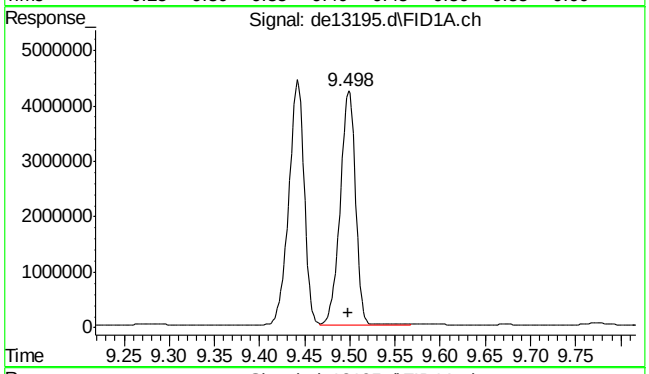
R.T.: 8.257 min
Delta R.T.: 0.000 min
Response: 5242546
Conc: 51.07 µg/ml

SGS ACCUTEST MC45580



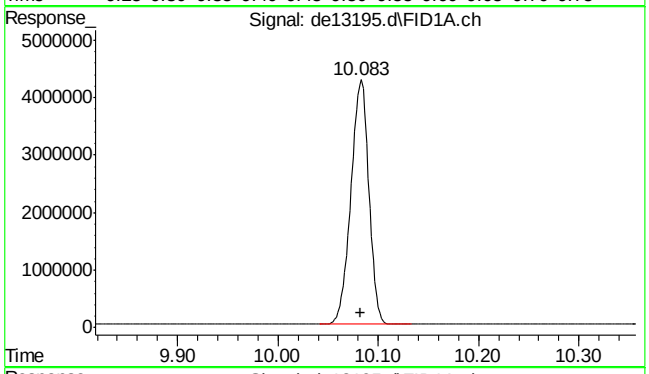
#9 phenanthrene

R.T.: 9.442 min
Delta R.T.: 0.000 min
Response: 5223164
Conc: 50.91 µg/ml



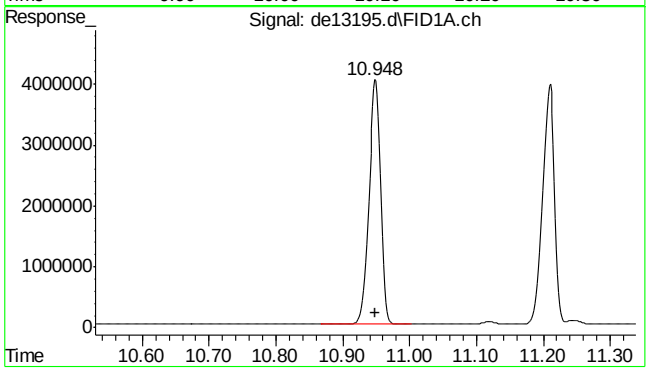
#10 anthracene

R.T.: 9.498 min
Delta R.T.: 0.000 min
Response: 4970359
Conc: 51.42 µg/ml



#11 o-terphenyl

R.T.: 10.083 min
Delta R.T.: 0.000 min
Response: 5257542
Conc: 50.99 µg/ml



#12 fluoranthene

R.T.: 10.948 min
Delta R.T.: 0.000 min
Response: 5079973
Conc: 50.44 µg/ml

9.5.5
9

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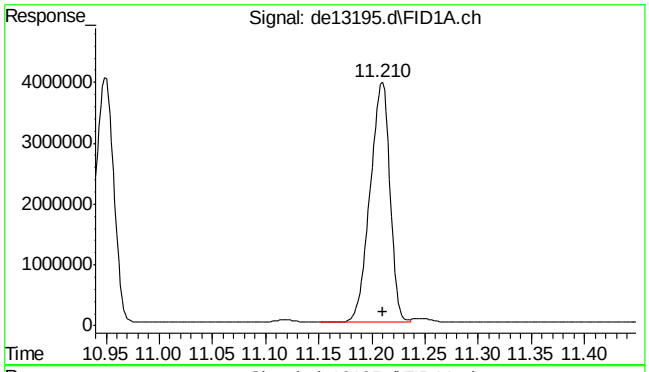
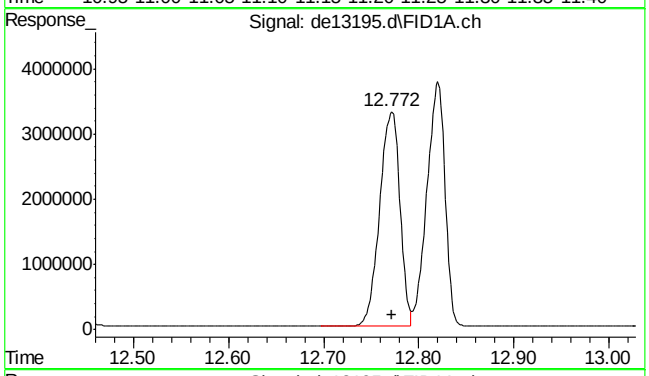


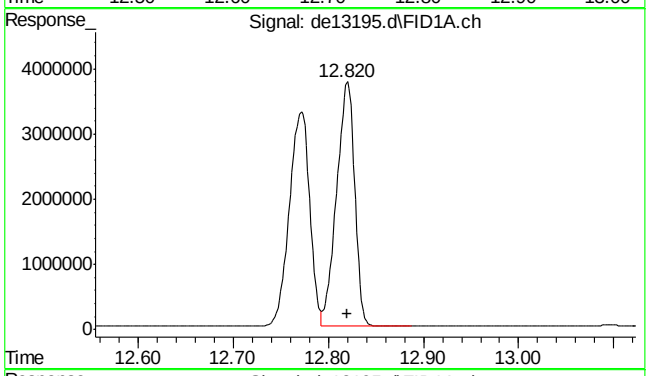
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5123787
Conc: 50.16 µg/ml



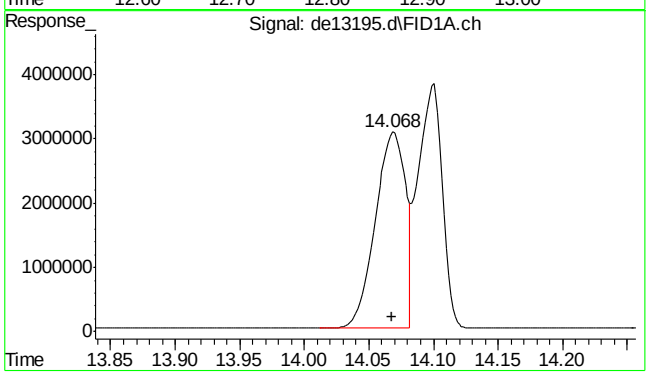
#14 benzo(a)anthracene

R.T.: 12.772 min
Delta R.T.: 0.000 min
Response: 4883350
Conc: 50.33 µg/ml



#15 chrysene

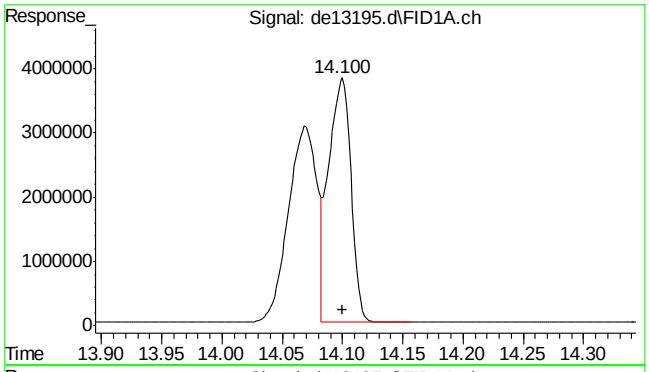
R.T.: 12.820 min
Delta R.T.: 0.000 min
Response: 4951740
Conc: 50.66 µg/ml



#16 benzo(B)fluoranthene

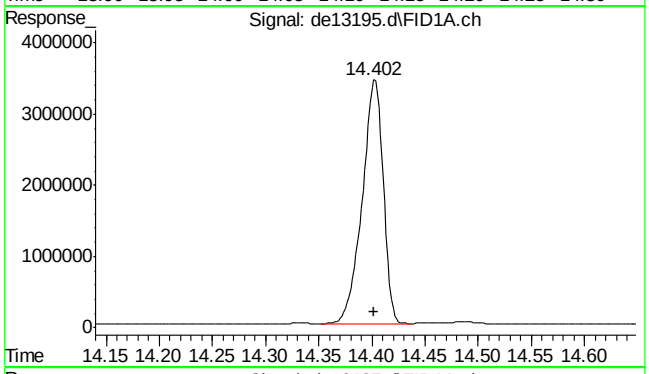
R.T.: 14.068 min
Delta R.T.: 0.000 min
Response: 4980192
Conc: 49.82 µg/ml

SGS ACCUTEST MC45580



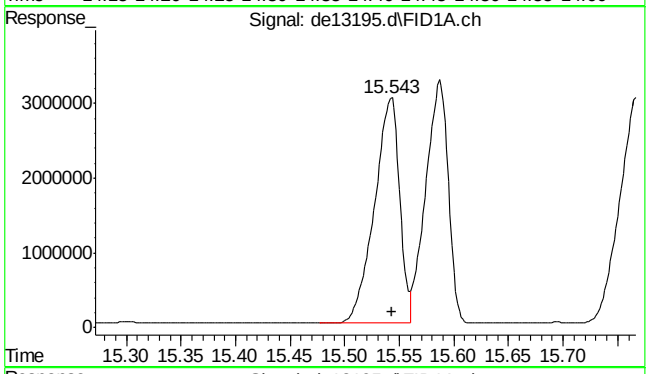
#17 benzo(k)fluoranthene

R.T.: 14.100 min
Delta R.T.: 0.000 min
Response: 4922694
Conc: 51.39 µg/ml



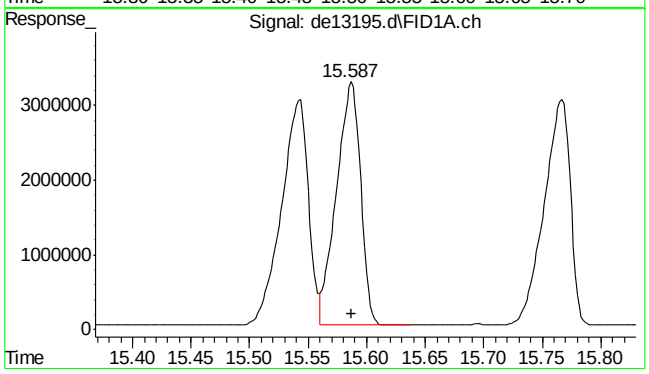
#18 benzo(a)pyrene

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

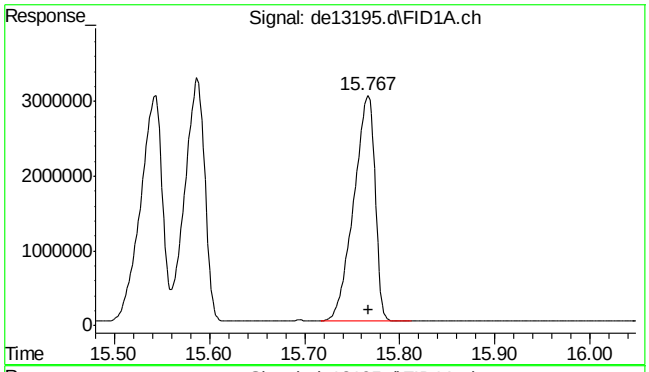
R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4854725
Conc: 50.33 µg/ml m



#20 dibenzo(ah)anthracene

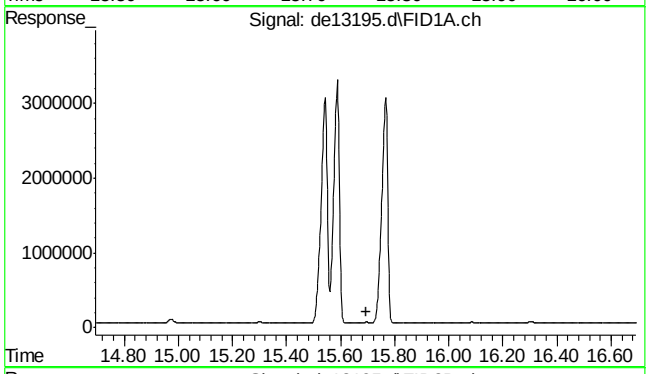
R.T.: 15.587 min
Delta R.T.: 0.000 min
Response: 4685536
Conc: 50.80 µg/ml m

SGS ACCUTEST MC45580



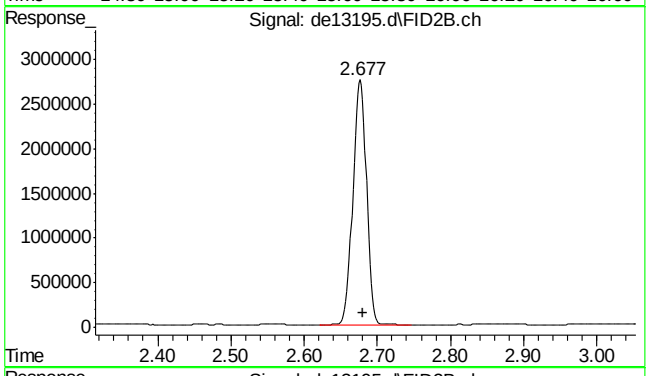
#21 benzo(ghi)perylene

R.T.: 15.767 min
Delta R.T.: 0.000 min
Response: 4705124
Conc: 50.47 µg/ml



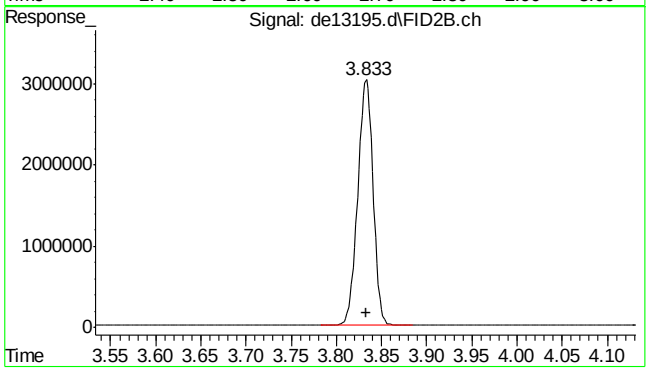
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

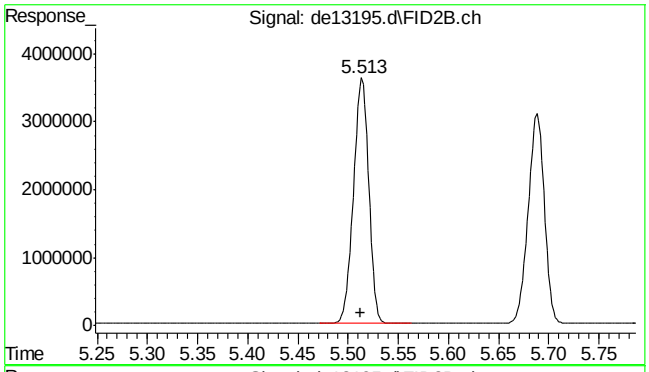
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 3541836
Conc: 46.37 µg/ml m



#26 c-10

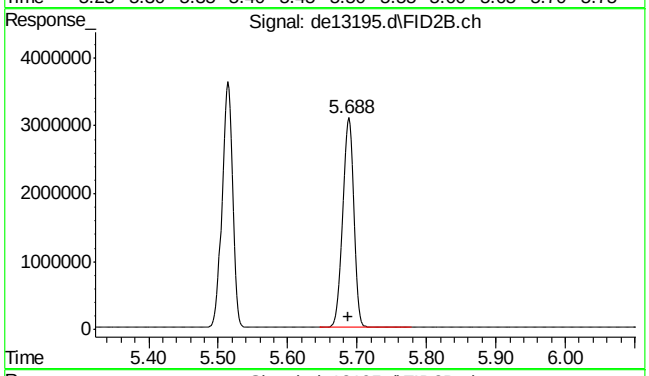
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 3570776
Conc: 46.37 µg/ml

SGS ACCUTEST MC45580



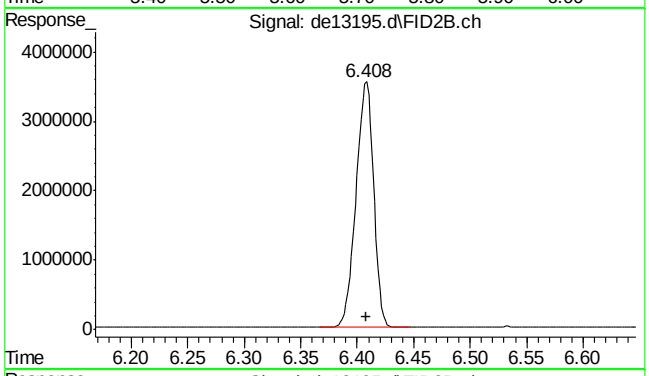
#27 naphthalene #2

R.T.: 5.513 min
Delta R.T.: 0.000 min
Response: 3805435
Conc: 47.63 µg/ml



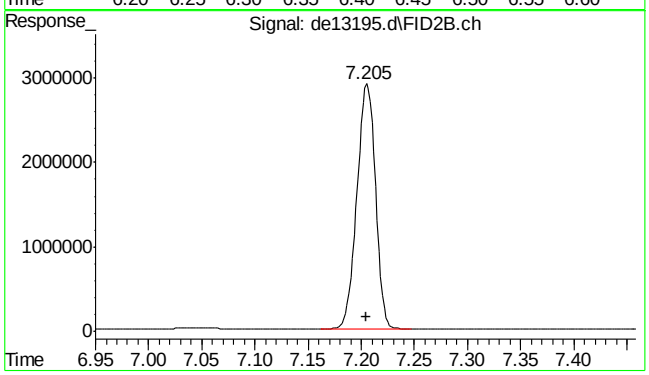
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3545795
Conc: 46.34 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.408 min
Delta R.T.: 0.000 min
Response: 3803724
Conc: 46.79 µg/ml

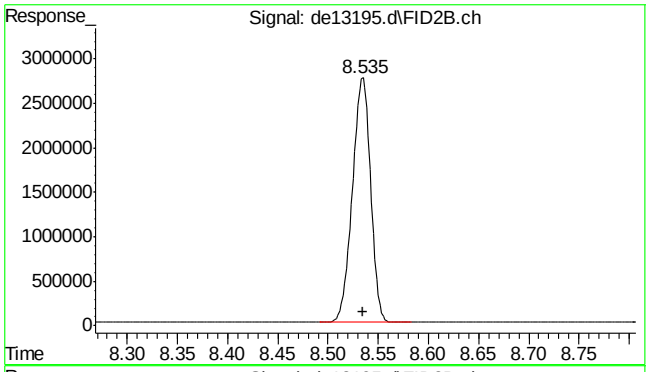


#30 c-14

R.T.: 7.205 min
Delta R.T.: 0.000 min
Response: 3516096
Conc: 46.03 µg/ml

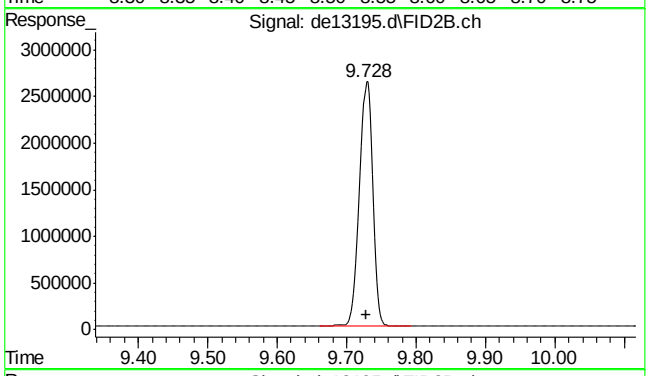
9.5.5
9

SGS ACCUTEST MC45580



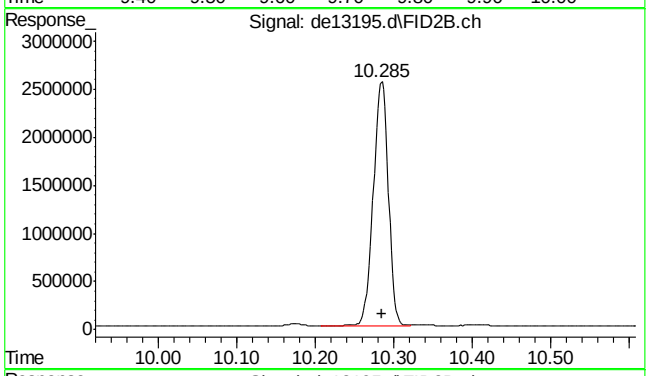
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3450251
Conc: 45.52 µg/ml



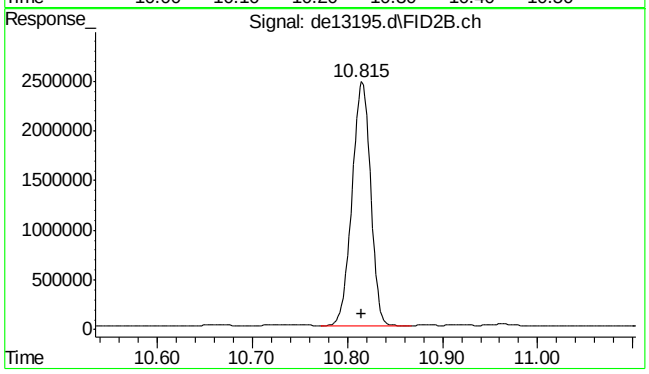
#32 c-18

R.T.: 9.728 min
Delta R.T.: 0.000 min
Response: 3414559
Conc: 45.53 µg/ml



#33 c-19

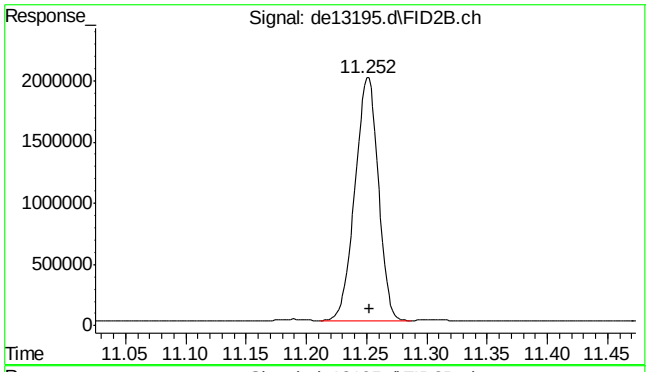
R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3383527
Conc: 46.15 µg/ml



#34 c-20

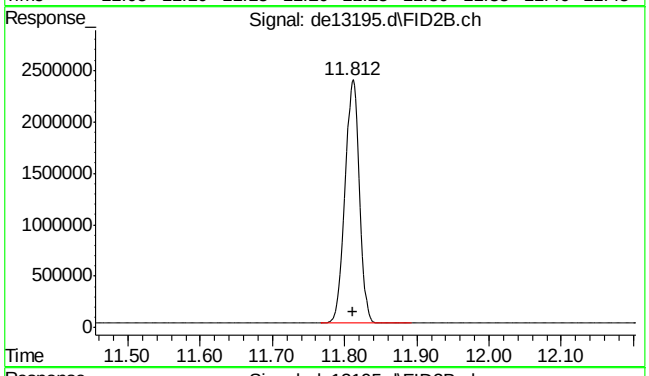
R.T.: 10.815 min
Delta R.T.: 0.000 min
Response: 3319667
Conc: 46.22 µg/ml

SGS ACCUTEST MC45580



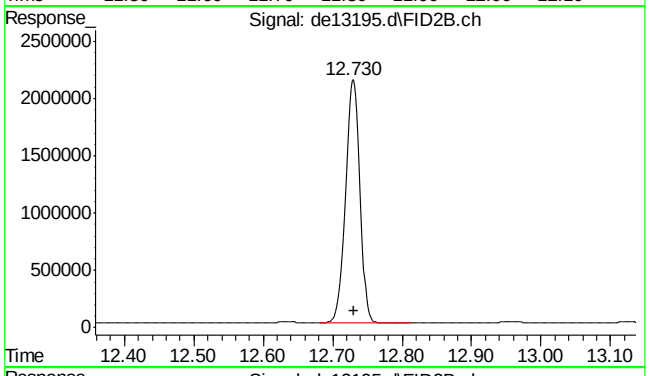
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2679754
Conc: 47.47 µg/ml



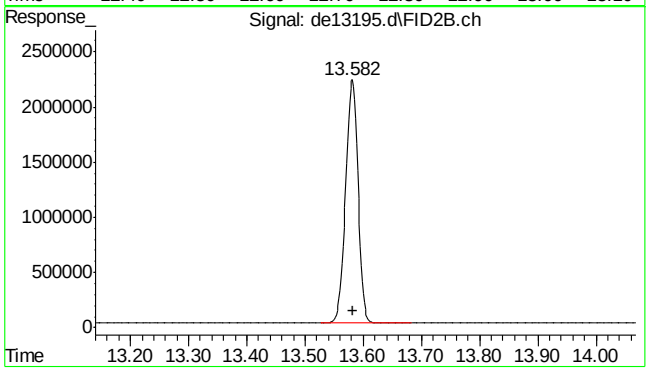
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3288115
Conc: 46.44 µg/ml



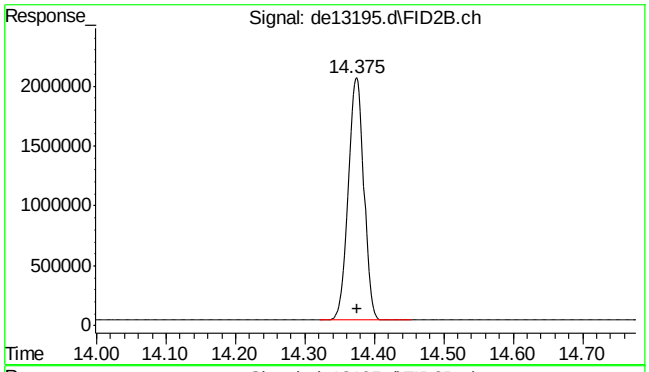
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3065680
Conc: 45.78 µg/ml



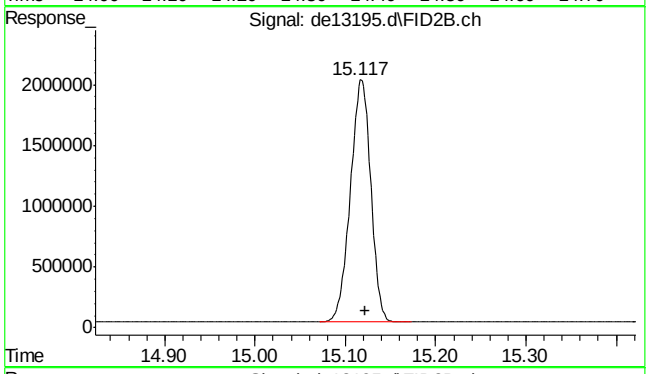
#38 c-26

R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3260990
Conc: 46.52 µg/ml



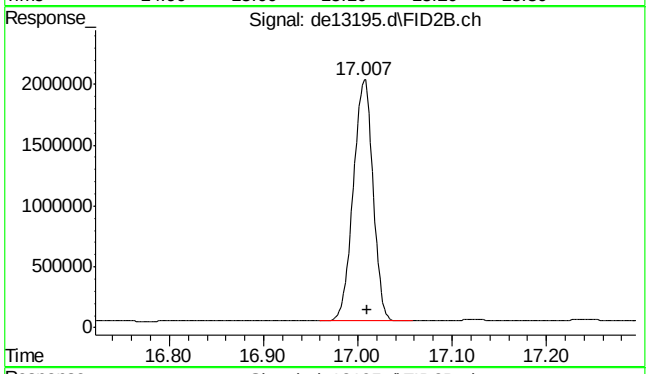
#39 c-28

R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3155644
Conc: 46.53 µg/ml



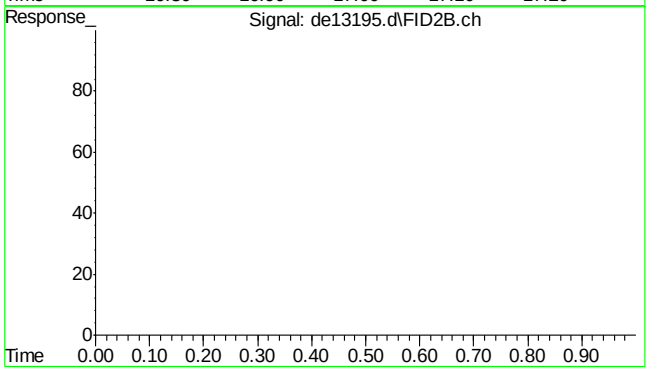
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3152151
Conc: 45.84 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2883025
Conc: 47.18 µg/ml m



#42 bht

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

9.5.5

6

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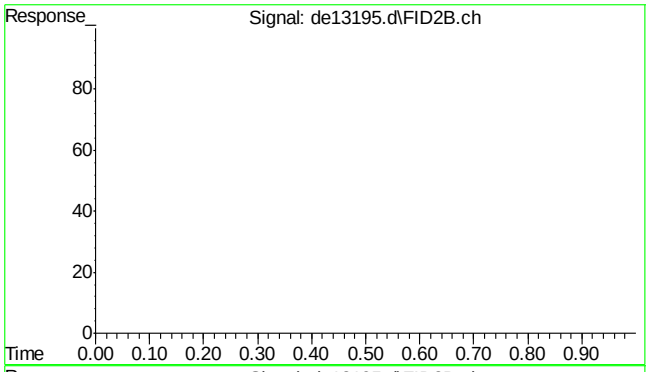
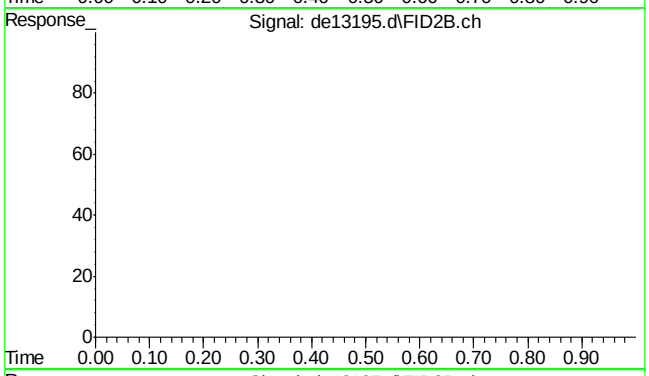


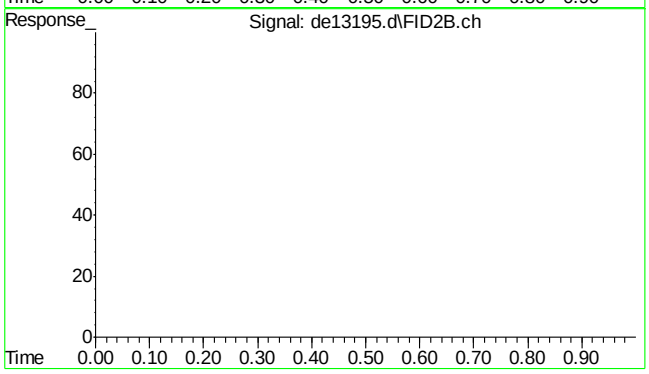
#43 bht

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



#44 bht

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



#45 bht

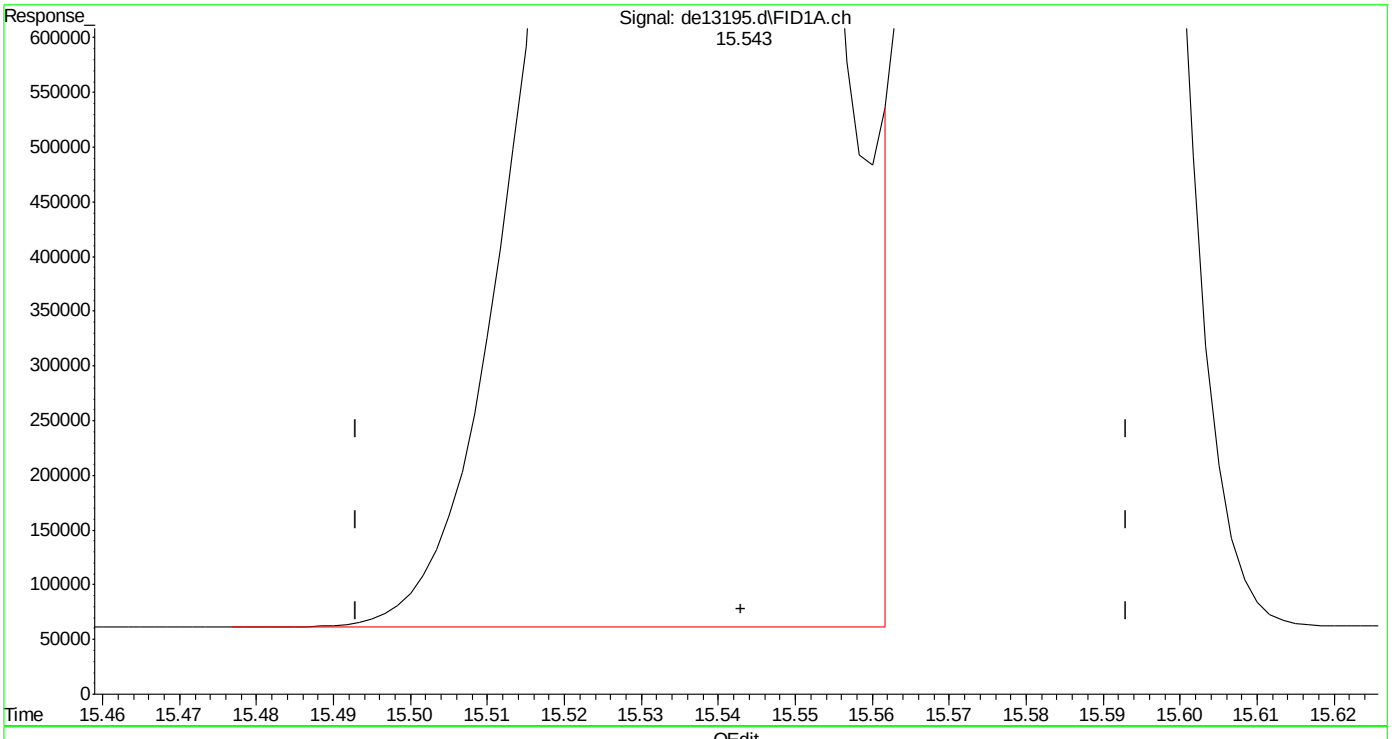
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.543min 50.804 µg/ml
response 4900817

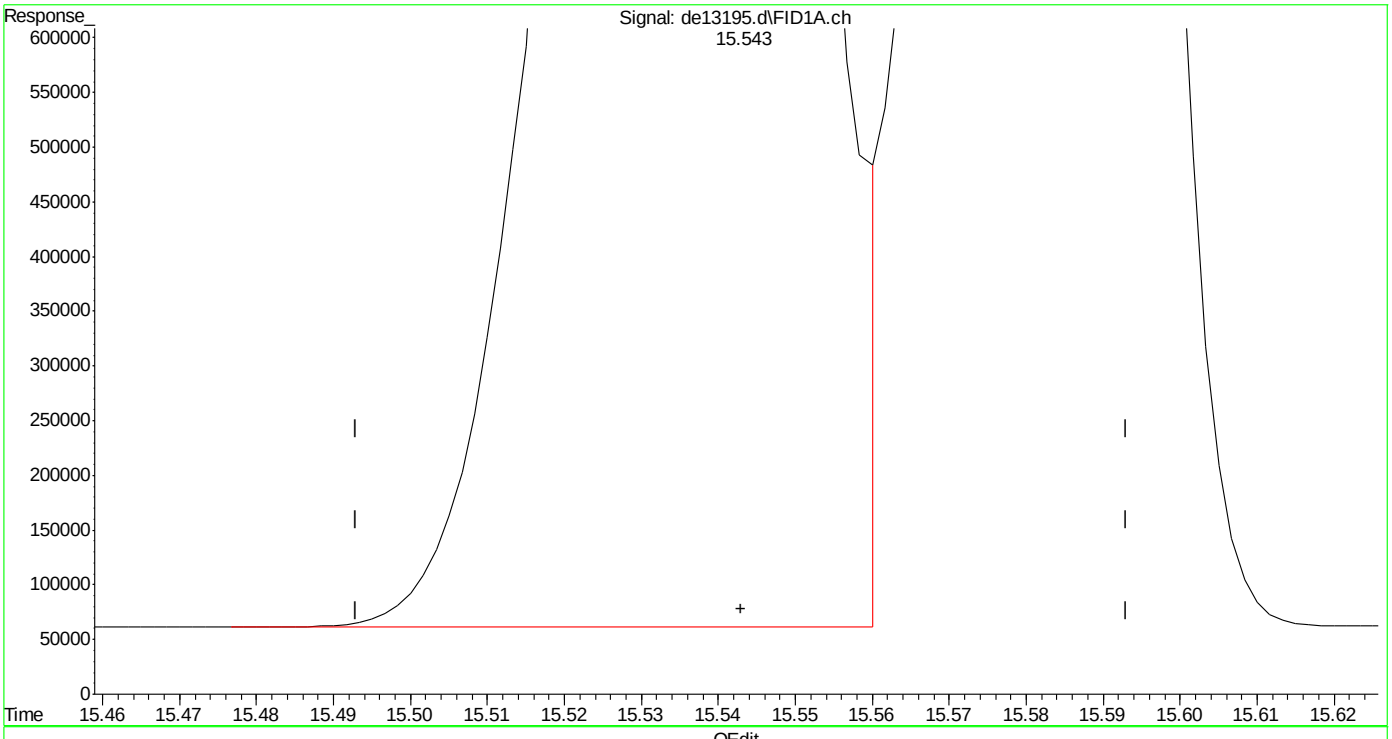
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.543min 50.326 µg/ml m
response 4854725

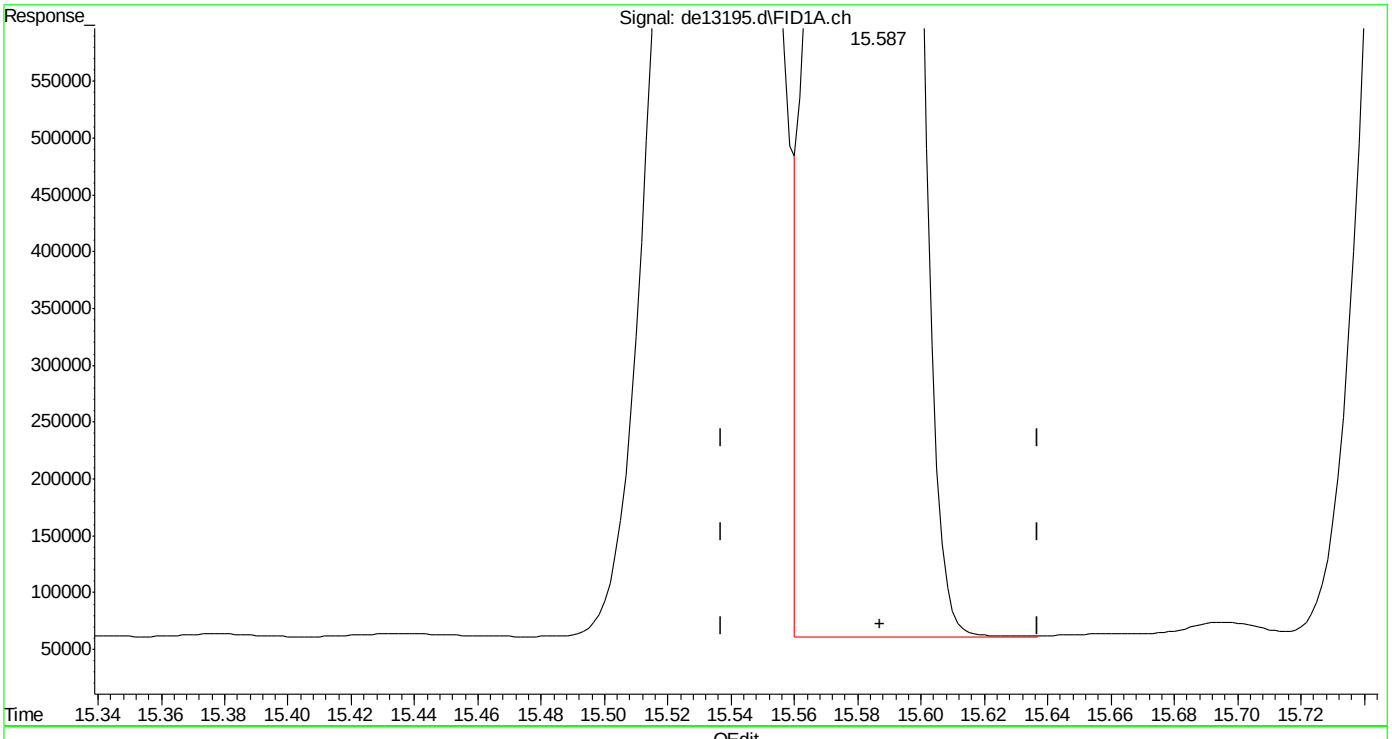
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13195.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 5:59 pm
Operator : thomasa
Sample : icc735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:55:29 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:54:28 2016
Response via : Initial Calibration
Integrator: RTE

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



(20) dibenzo(ah)anthracene
15.587min 50.795 µg/ml m
response 4685536

(+) = Expected Retention Time

SGS ACCUTEST MC45580

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	8980683	96.248 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.24%#	
6) s 2-bromonaphthalene	7.540	6121297	96.499 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 482.49%#	
11) s o-terphenyl	10.087	9937595	96.373 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.87%#	
35) s 1-chlorooctadecane	11.253	5337791	94.549 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 472.75%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.350	164719881	99.532 µg/mlm
2) naphthalene	5.358	10142634	96.942 µg/ml
3) 2-methylnaphthalene	6.257	9997868	96.348 µg/ml
5) acenaphthylene	7.375	9776029	95.799 µg/ml
7) acenaphthene	7.618	10095451	96.622 µg/ml
8) fluorene	8.263	9889893	96.350 µg/ml
9) phenanthrene	9.448	9875264	96.257 µg/ml
10) anthracene	9.507	9378790	97.021 µg/ml
12) fluoranthene	10.957	9629565	95.613 µg/ml
13) pyrene	11.217	9876553	96.690 µg/ml
14) benzo(a)anthracene	12.778	9324427	96.095 µg/mlm
15) chrysene	12.830	9386529	96.029 µg/mlm
16) benzo(B)fluoranthene	14.078	9460698	94.644 µg/ml
17) benzo(k)fluoranthene	14.113	9345183	97.563 µg/ml
18) benzo(a)pyrene	14.417	8964794	95.712 µg/ml
19) indeno(1,2,3-cd)pyrene	15.555	9240715	95.924 µg/ml
20) dibenzo(ah)anthracene	15.600	8726656	94.448 µg/ml
21) benzo(ghi)perylene	15.782	8869696	95.141 µg/ml
25) h c-9	2.680	7080731	92.721 µg/mlm
26) h c-10	3.833	7121293	92.471 µg/ml
27) naphthalene #2	5.518	7593446	95.036 µg/ml
28) c-12	5.692	7047399	92.105 µg/ml
29) 2-methylnaphthalene #2	6.412	7564728	93.063 µg/ml
30) c-14	7.208	6951061	90.996 µg/ml
31) c-16	8.538	6811631	89.870 µg/ml
32) c-18	9.732	6758324	90.119 µg/ml
33) c-19	10.288	6704725	91.450 µg/ml
34) c-20	10.818	6591283	91.774 µg/ml
36) c-22	11.815	6550653	92.519 µg/ml
37) c-24	12.733	6102937	91.140 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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

		Compound	R.T.	Response	Conc	Units
38)		c-26	13.585	6486501	92.533	µg/ml
39)		c-28	14.378	6270223	92.446	µg/ml
40)	h	c-30	15.122	6235140	90.668	µg/ml
41)	h	c-36	17.010	5572797	91.214	µg/mlm

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

9.5.6

9

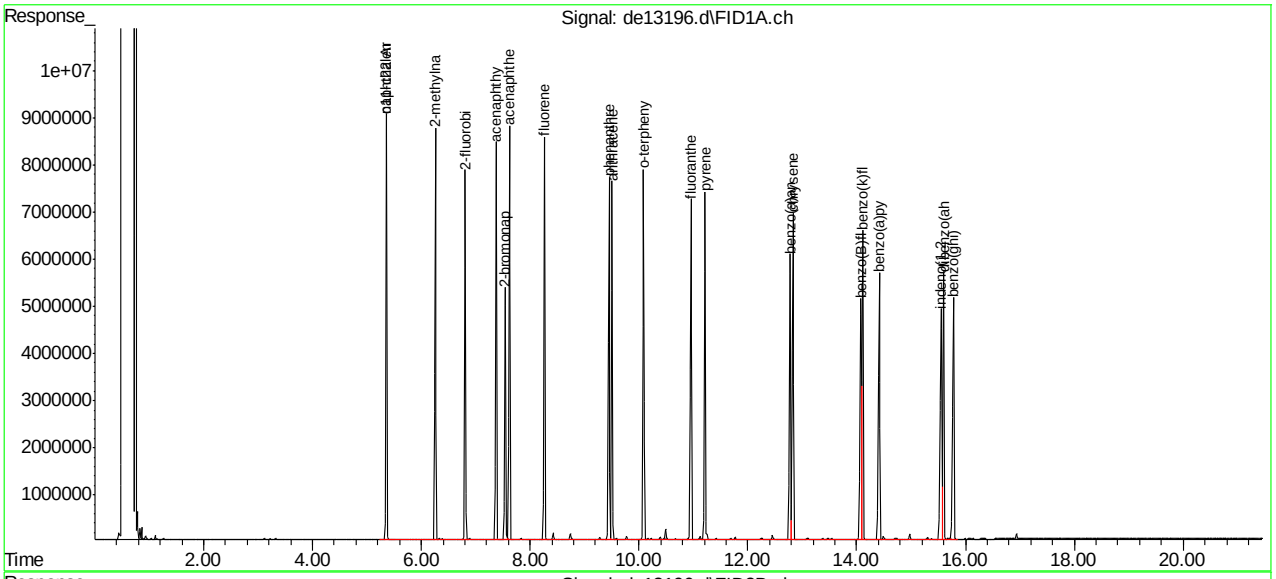
SGS ACCUTEST MC45580

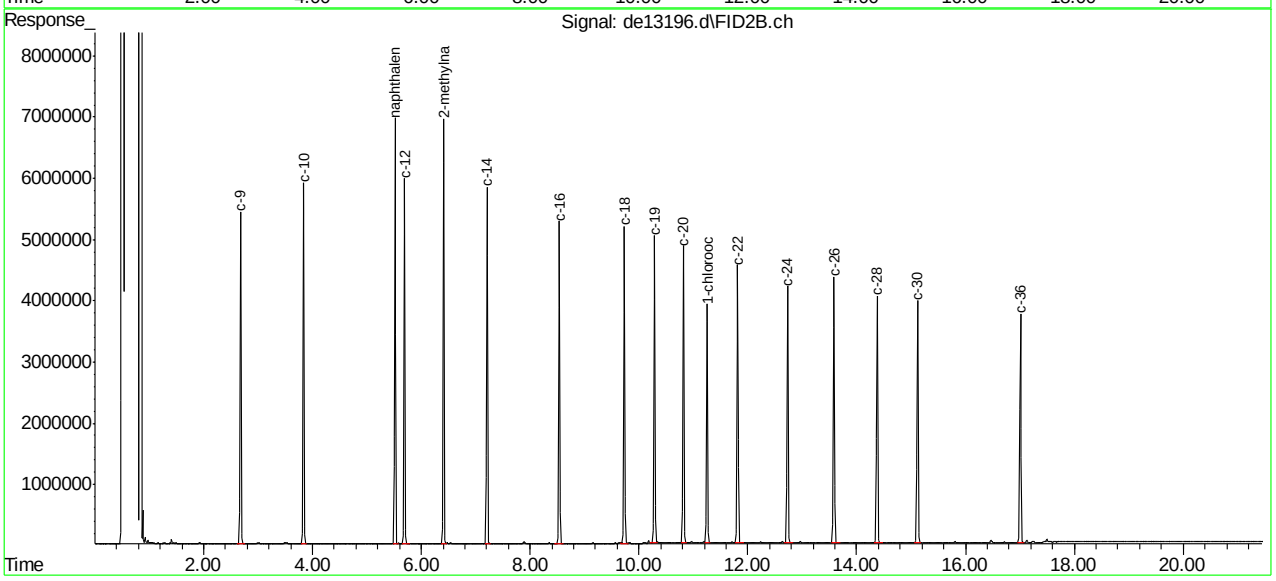
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

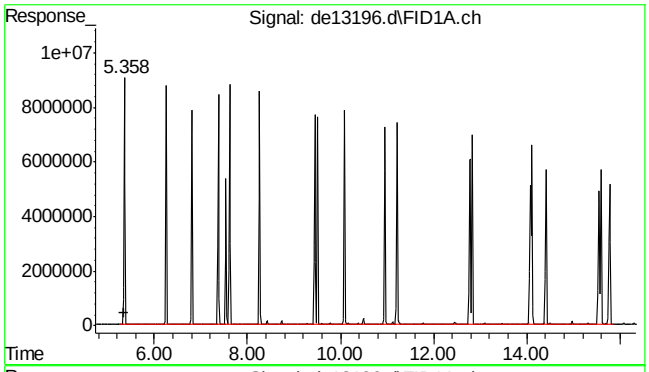
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



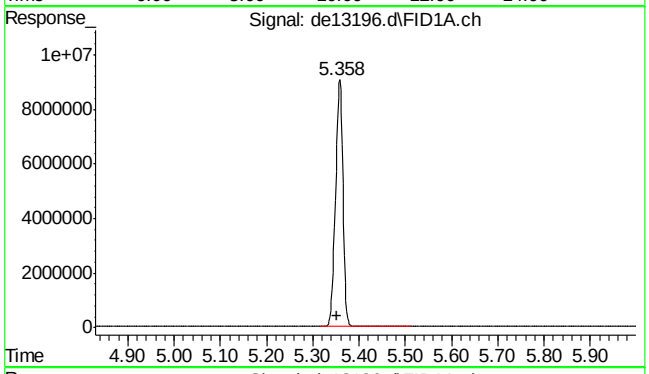


SGS ACCUTEST MC45580



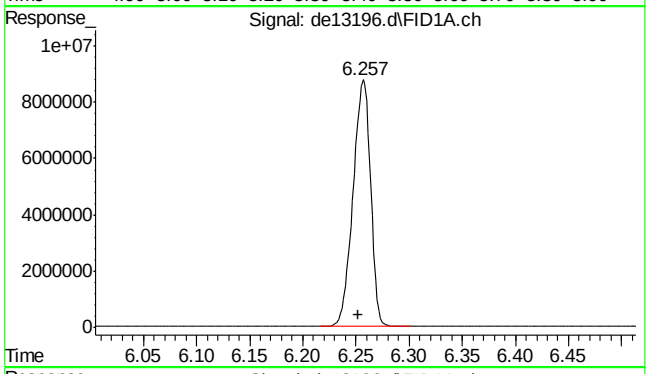
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 164719881
Conc: 99.53 µg/ml m



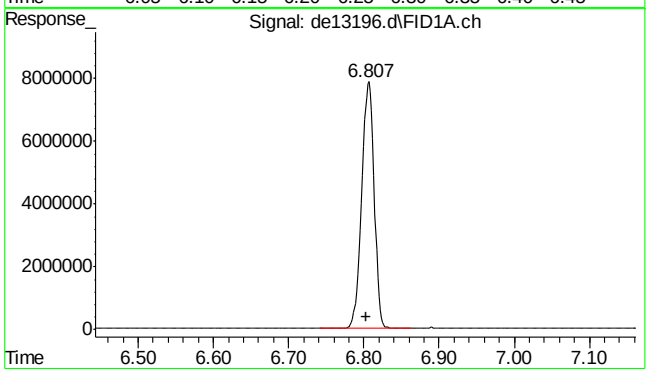
#2 naphthalene

R.T.: 5.358 min
Delta R.T.: 0.005 min
Response: 10142634
Conc: 96.94 µg/ml



#3 2-methylnaphthalene

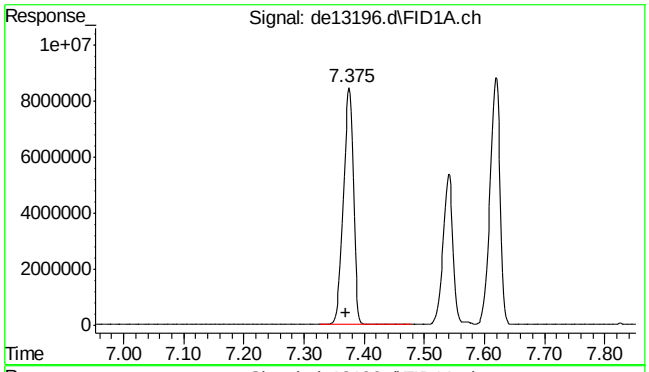
R.T.: 6.257 min
Delta R.T.: 0.005 min
Response: 9997868
Conc: 96.35 µg/ml



#4 2-fluorobiphenyl

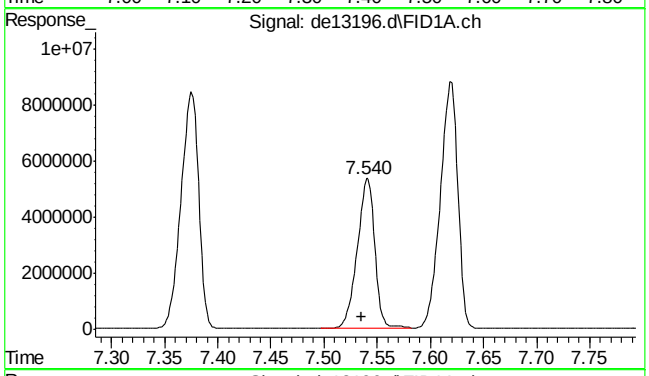
R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 8980683
Conc: 96.25 µg/ml

SGS ACCUTEST MC45580



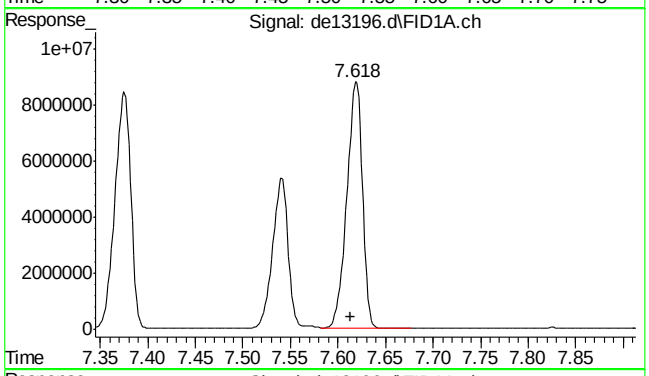
#5 acenaphthylene

R.T.: 7.375 min
Delta R.T.: 0.005 min
Response: 9776029
Conc: 95.80 µg/ml



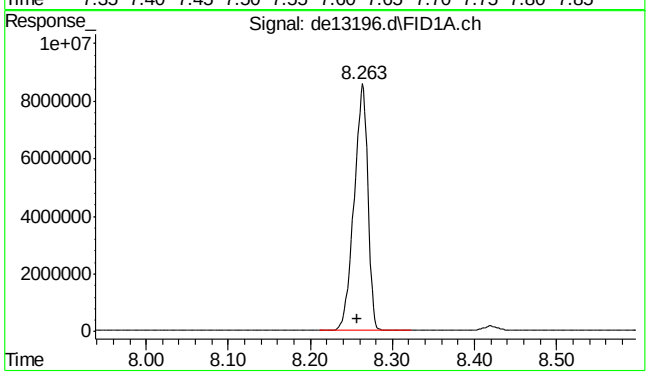
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 6121297
Conc: 96.50 µg/ml



#7 acenaphthene

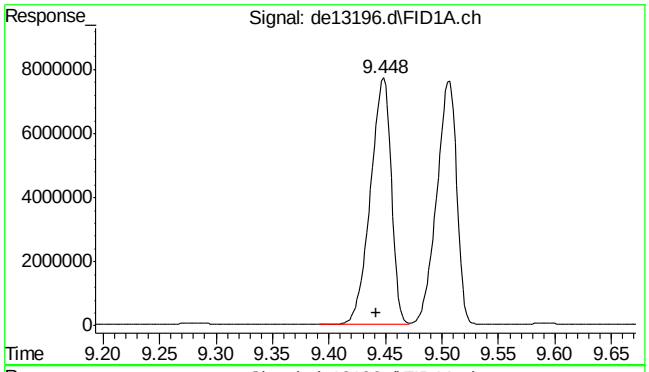
R.T.: 7.618 min
Delta R.T.: 0.005 min
Response: 10095451
Conc: 96.62 µg/ml



#8 fluorene

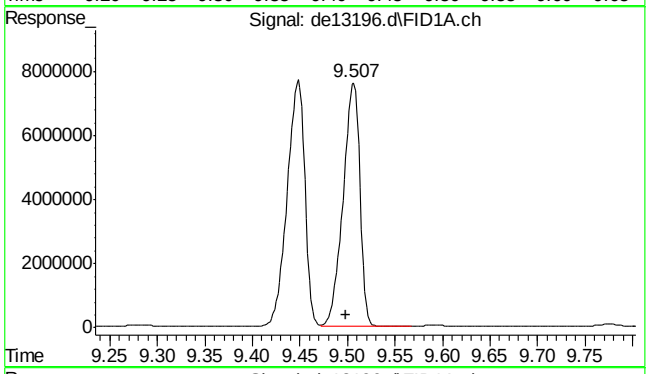
R.T.: 8.263 min
Delta R.T.: 0.006 min
Response: 9889893
Conc: 96.35 µg/ml

SGS ACCUTEST MC45580



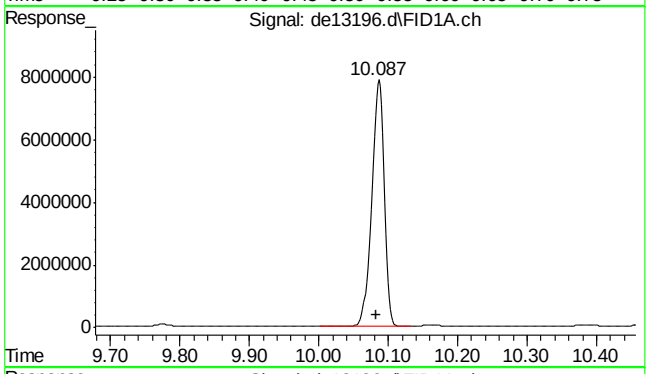
#9 phenanthrene

R.T.: 9.448 min
Delta R.T.: 0.006 min
Response: 9875264
Conc: 96.26 µg/ml



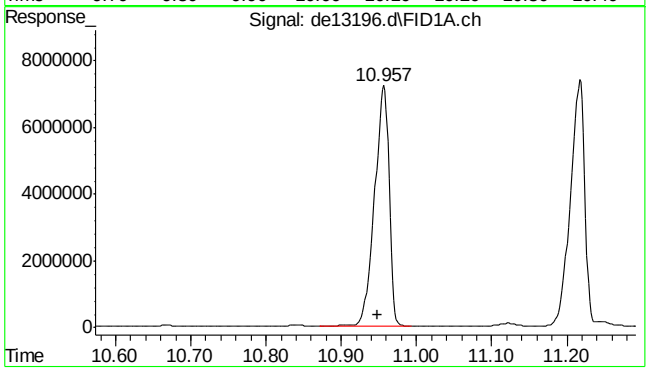
#10 anthracene

R.T.: 9.507 min
Delta R.T.: 0.009 min
Response: 9378790
Conc: 97.02 µg/ml



#11 o-terphenyl

R.T.: 10.087 min
Delta R.T.: 0.004 min
Response: 9937595
Conc: 96.37 µg/ml



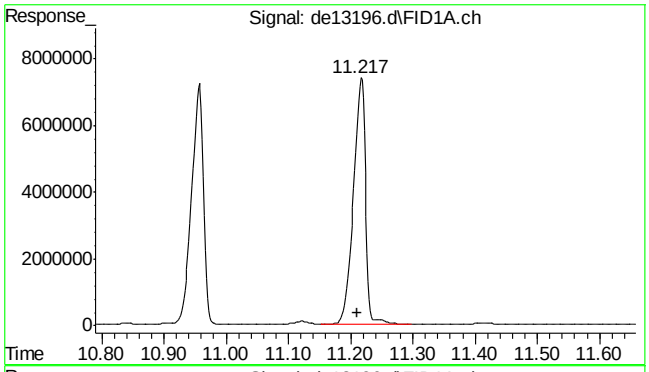
#12 fluoranthene

R.T.: 10.957 min
Delta R.T.: 0.009 min
Response: 9629565
Conc: 95.61 µg/ml

9.5.6

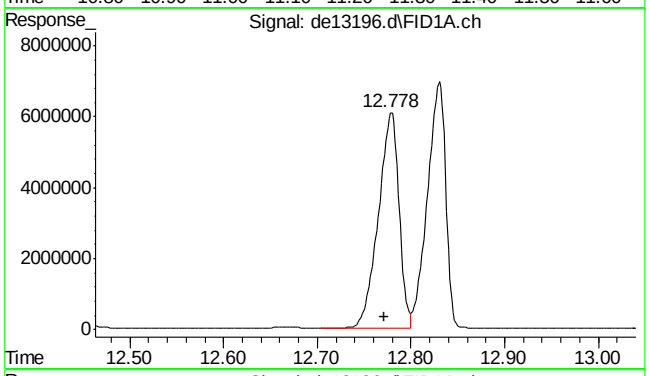
9

SGS ACCUTEST MC45580



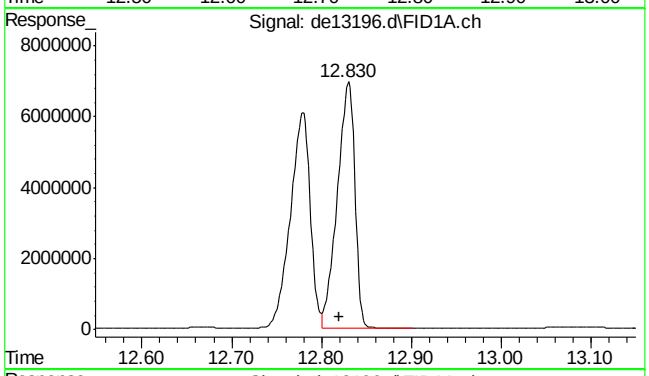
#13 pyrene

R.T.: 11.217 min
Delta R.T.: 0.007 min
Response: 9876553
Conc: 96.69 µg/ml



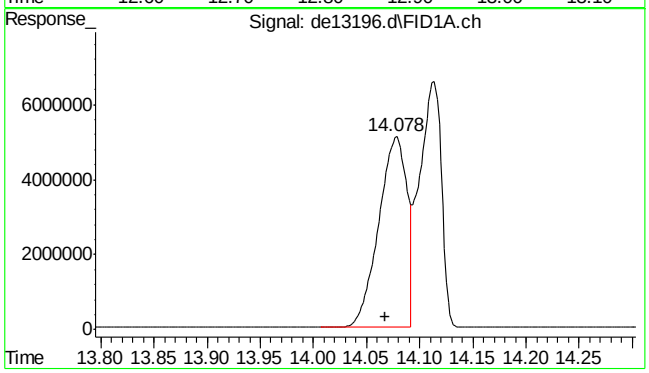
#14 benzo(a)anthracene

R.T.: 12.778 min
Delta R.T.: 0.006 min
Response: 9324427
Conc: 96.10 µg/ml m



#15 chrysene

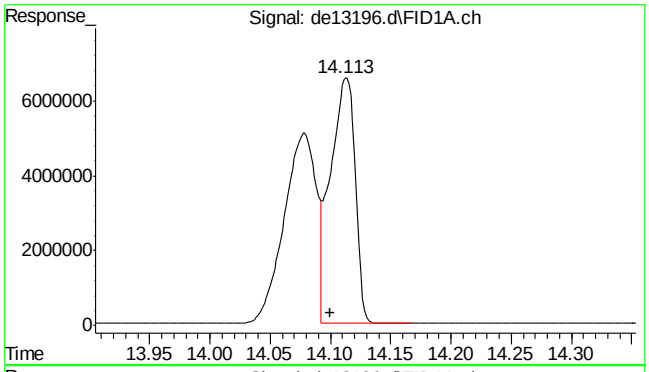
R.T.: 12.830 min
Delta R.T.: 0.010 min
Response: 9386529
Conc: 96.03 µg/ml m



#16 benzo(B)fluoranthene

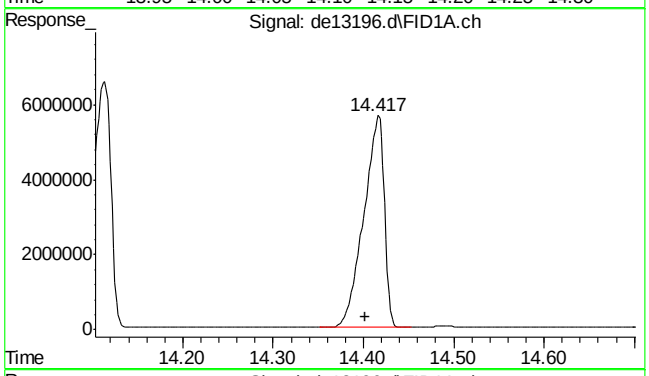
R.T.: 14.078 min
Delta R.T.: 0.010 min
Response: 9460698
Conc: 94.64 µg/ml

SGS ACCUTEST MC45580



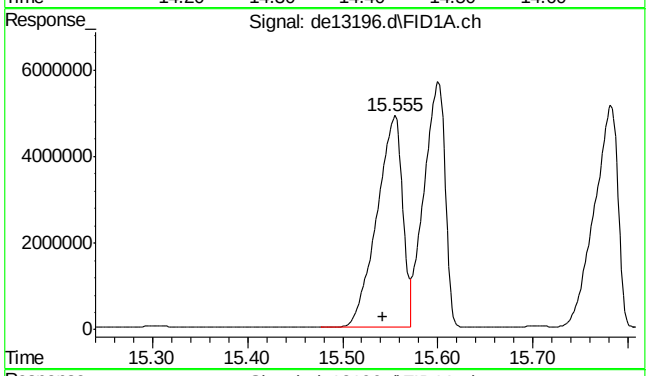
#17 benzo(k)fluoranthene

R.T.: 14.113 min
Delta R.T.: 0.013 min
Response: 9345183
Conc: 97.56 µg/ml



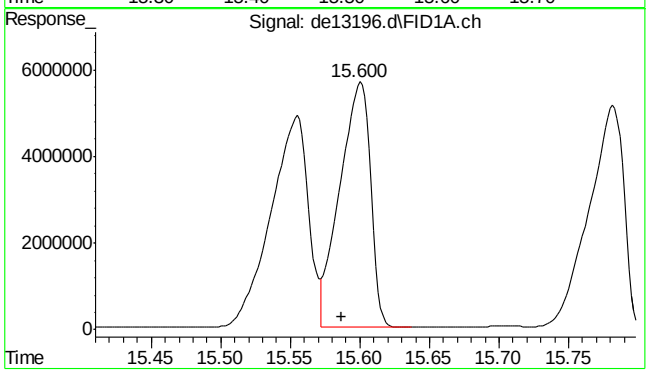
#18 benzo(a)pyrene

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

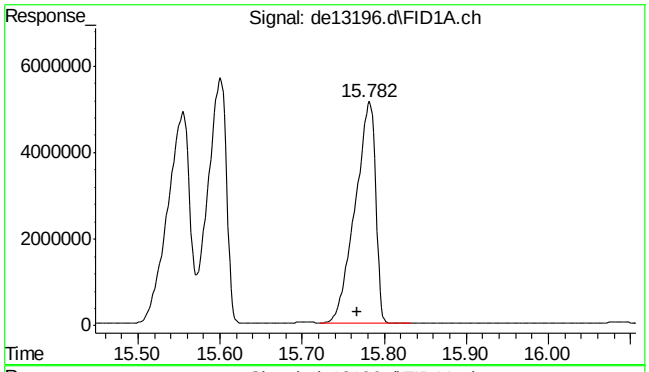
R.T.: 15.555 min
Delta R.T.: 0.012 min
Response: 9240715
Conc: 95.92 µg/ml



#20 dibenzo(ah)anthracene

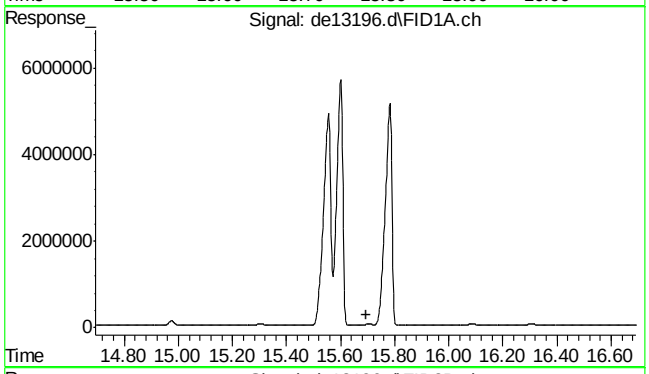
R.T.: 15.600 min
Delta R.T.: 0.013 min
Response: 8726656
Conc: 94.45 µg/ml

SGS ACCUTEST MC45580



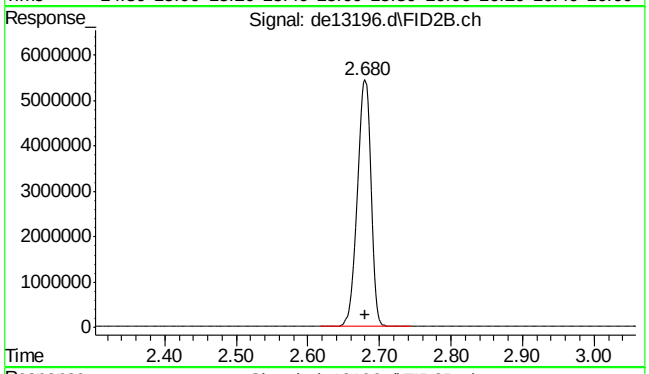
#21 benzo(ghi)perylene

R.T.: 15.782 min
Delta R.T.: 0.015 min
Response: 8869696
Conc: 95.14 µg/ml



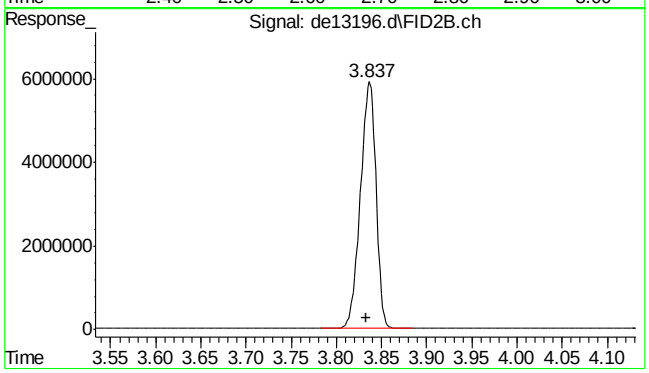
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

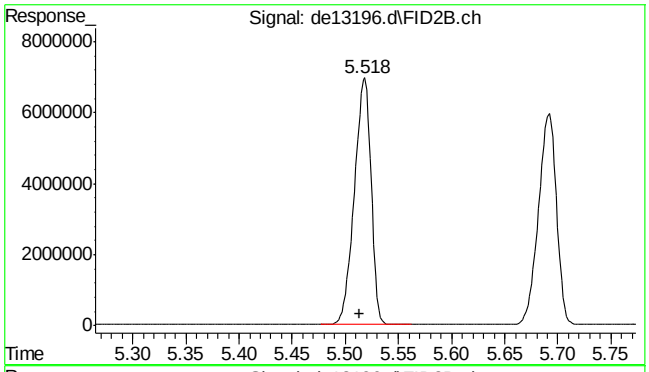
R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 7080731
Conc: 92.72 µg/ml m



#26 c-10

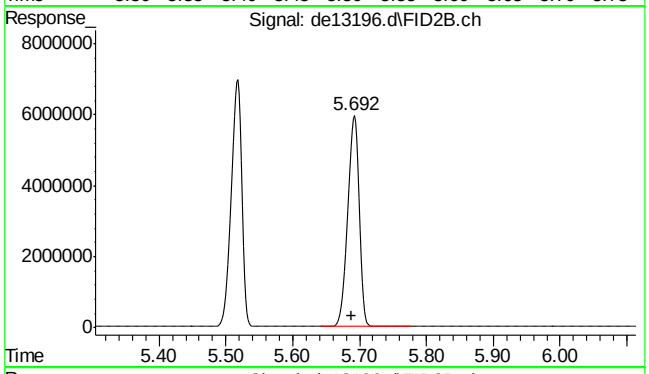
R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 7121293
Conc: 92.47 µg/ml

SGS ACCUTEST MC45580



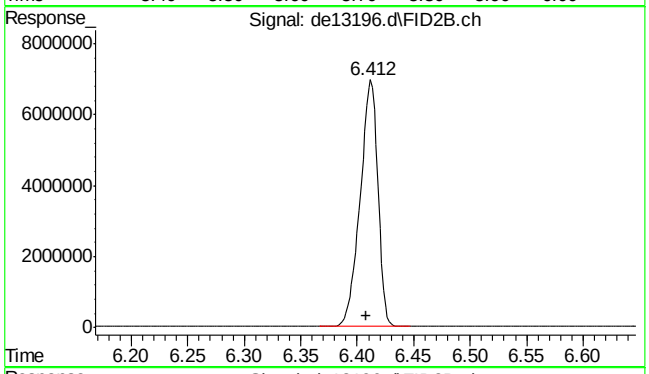
#27 naphthalene #2

R.T.: 5.518 min
Delta R.T.: 0.005 min
Response: 7593446
Conc: 95.04 µg/ml



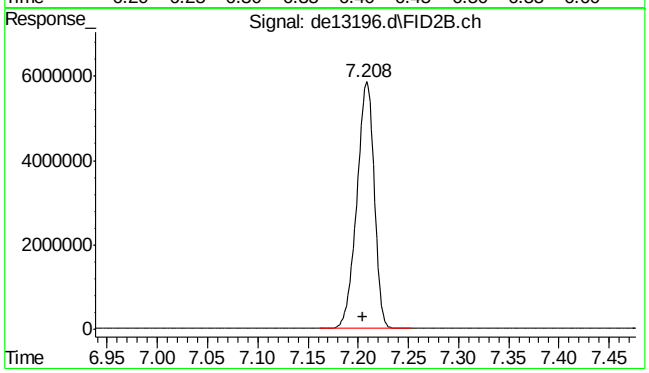
#28 c-12

R.T.: 5.692 min
Delta R.T.: 0.004 min
Response: 7047399
Conc: 92.10 µg/ml



#29 2-methylnaphthalene #2

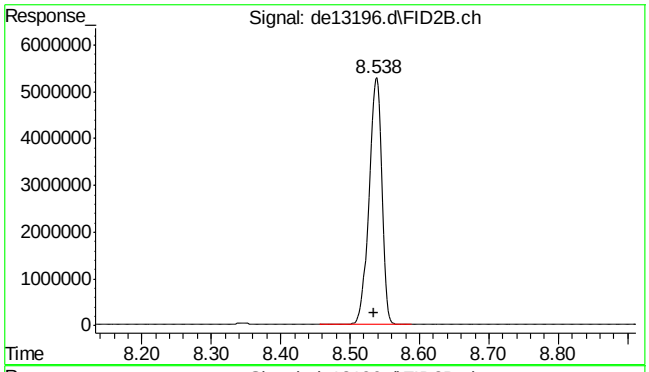
R.T.: 6.412 min
Delta R.T.: 0.004 min
Response: 7564728
Conc: 93.06 µg/ml



#30 c-14

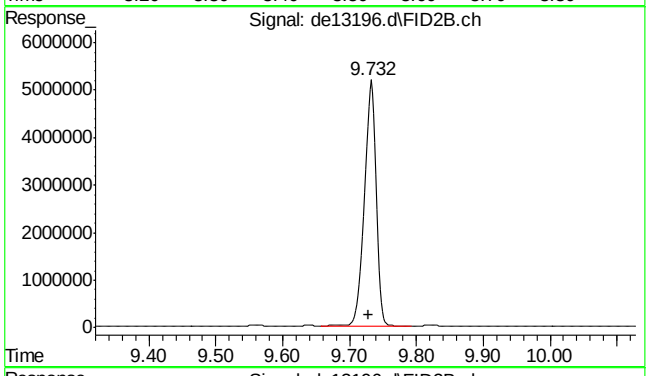
R.T.: 7.208 min
Delta R.T.: 0.003 min
Response: 6951061
Conc: 91.00 µg/ml

SGS ACCUTEST MC45580



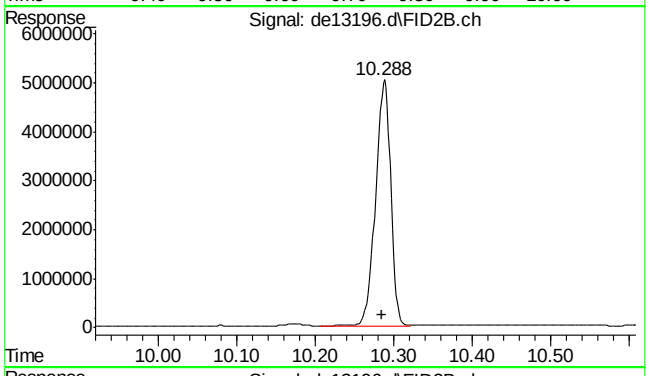
#31 c-16

R.T.: 8.538 min
Delta R.T.: 0.003 min
Response: 6811631
Conc: 89.87 µg/ml



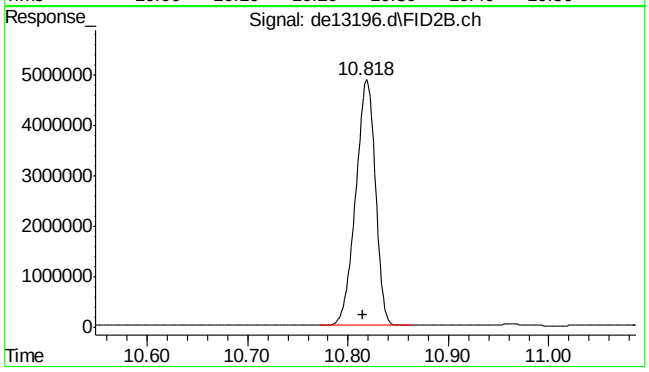
#32 c-18

R.T.: 9.732 min
Delta R.T.: 0.004 min
Response: 6758324
Conc: 90.12 µg/ml



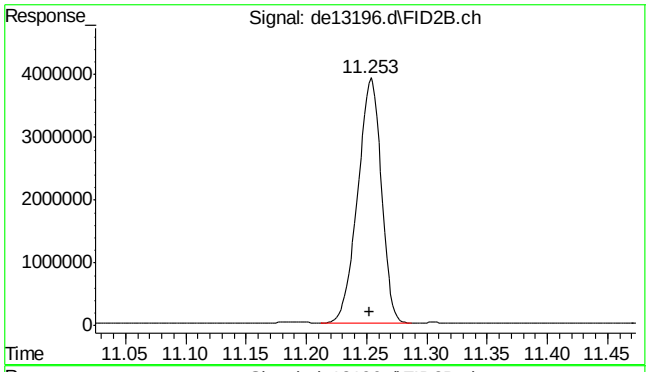
#33 c-19

R.T.: 10.288 min
Delta R.T.: 0.003 min
Response: 6704725
Conc: 91.45 µg/ml



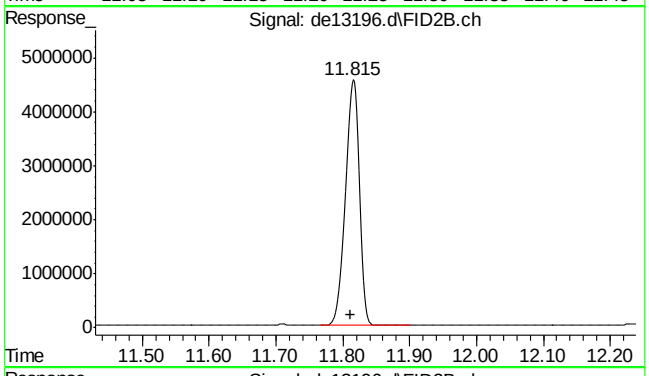
#34 c-20

R.T.: 10.818 min
Delta R.T.: 0.003 min
Response: 6591283
Conc: 91.77 µg/ml



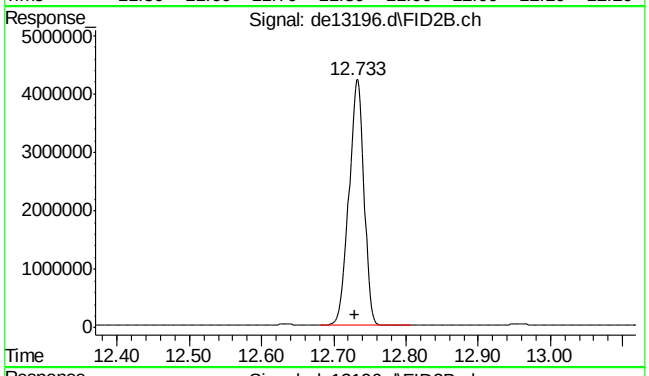
#35 1-chlorooctadecane

R.T.: 11.253 min
Delta R.T.: 0.001 min
Response: 5337791
Conc: 94.55 µg/ml



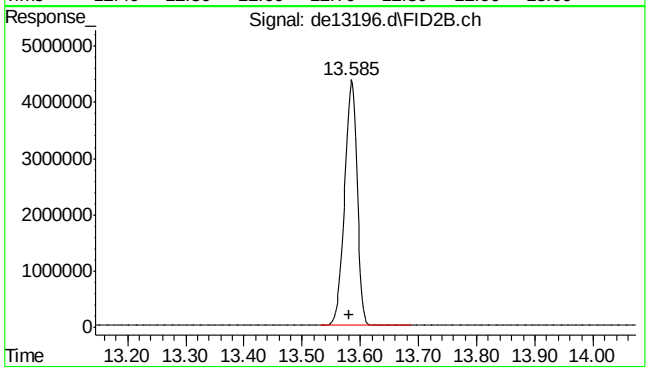
#36 c-22

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

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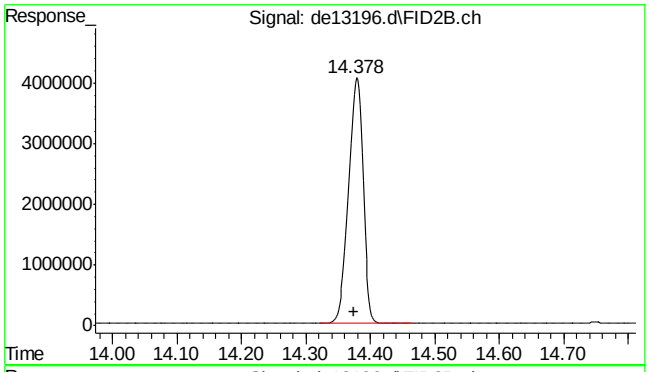
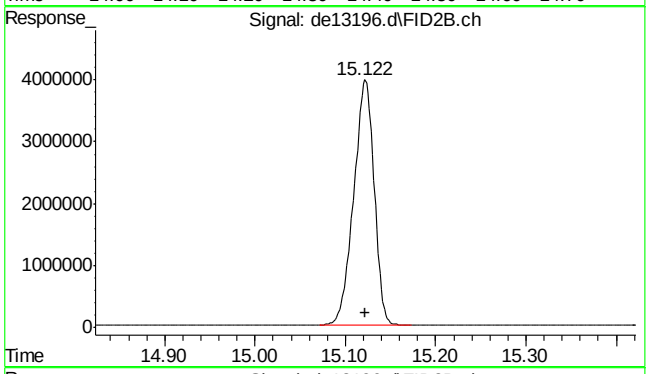


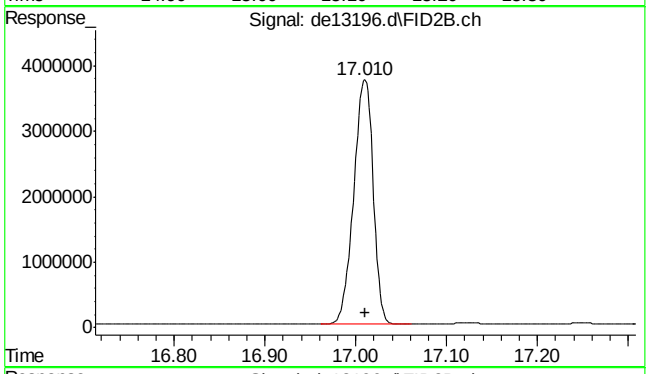
#39 c-28

R.T.: 14.378 min
Delta R.T.: 0.003 min
Response: 6270223
Conc: 92.45 µg/ml



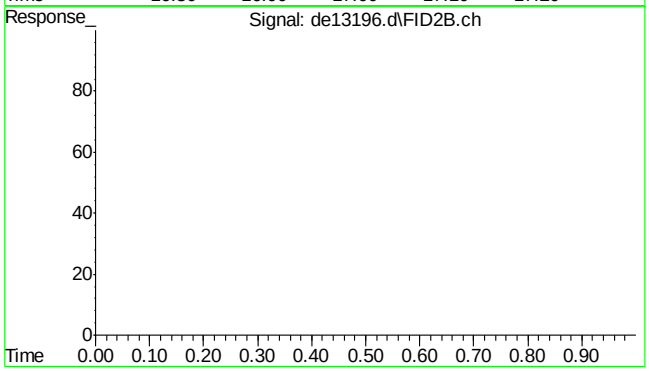
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 6235140
Conc: 90.67 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 5572797
Conc: 91.21 µg/ml m



#42 bht

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

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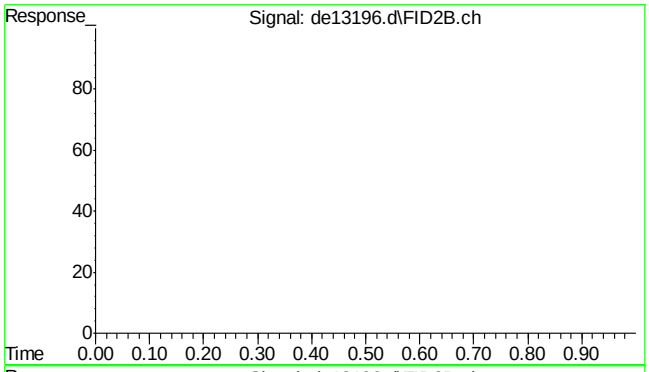
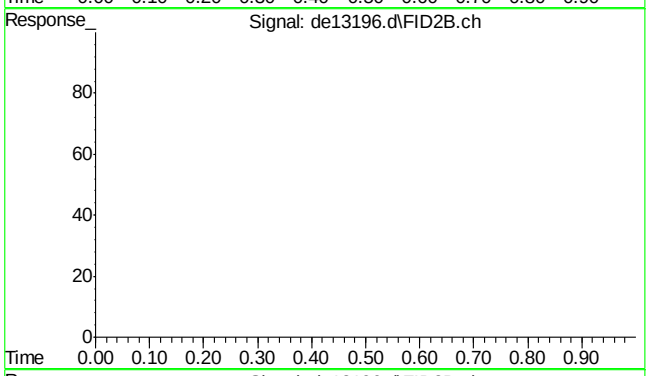


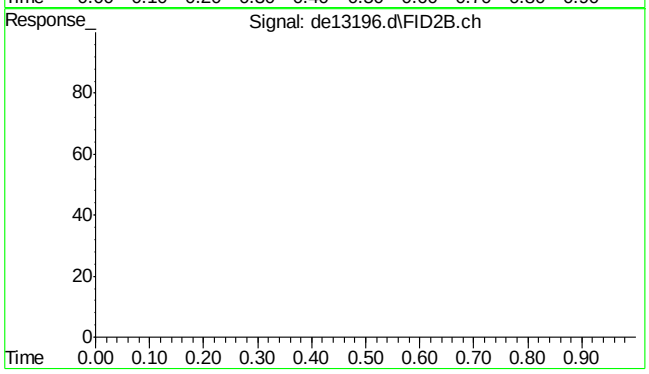
#43 bht

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



#44 bht

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



#45 bht

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

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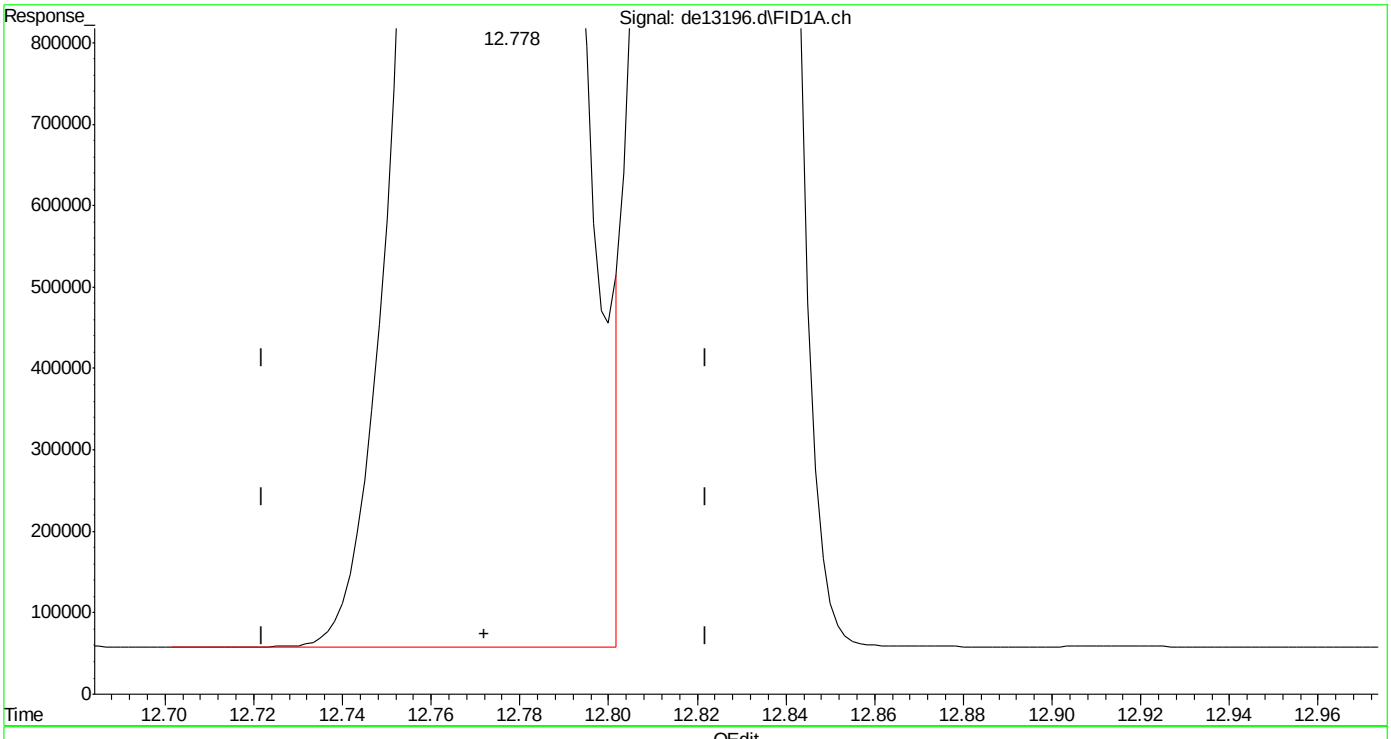
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13196.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:26 pm
Operator : thomasa
Sample : ic735-100
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 10:59:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 10:58:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.778min 96.536 µg/ml
response 9367180

(+) = Expected Retention Time

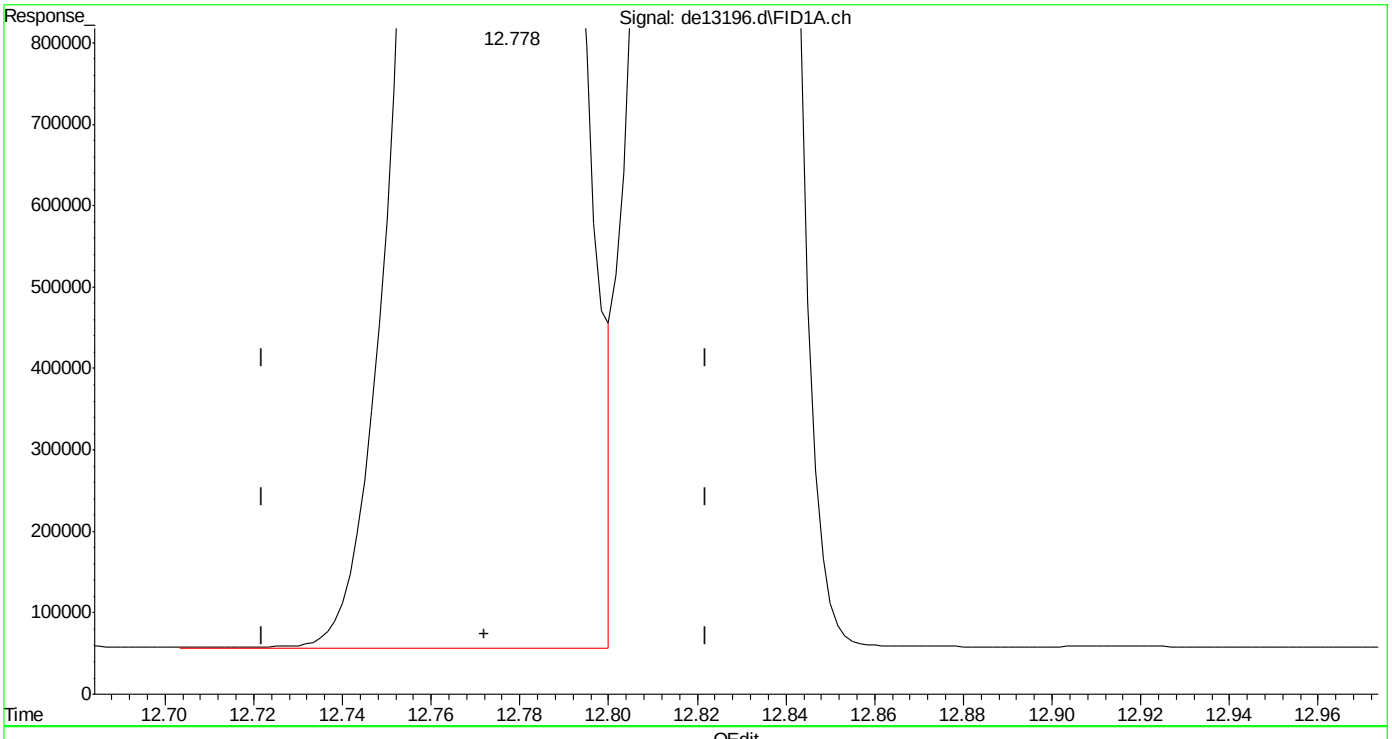
EPH160204M.M Fri Feb 05 10:59:36 2016

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

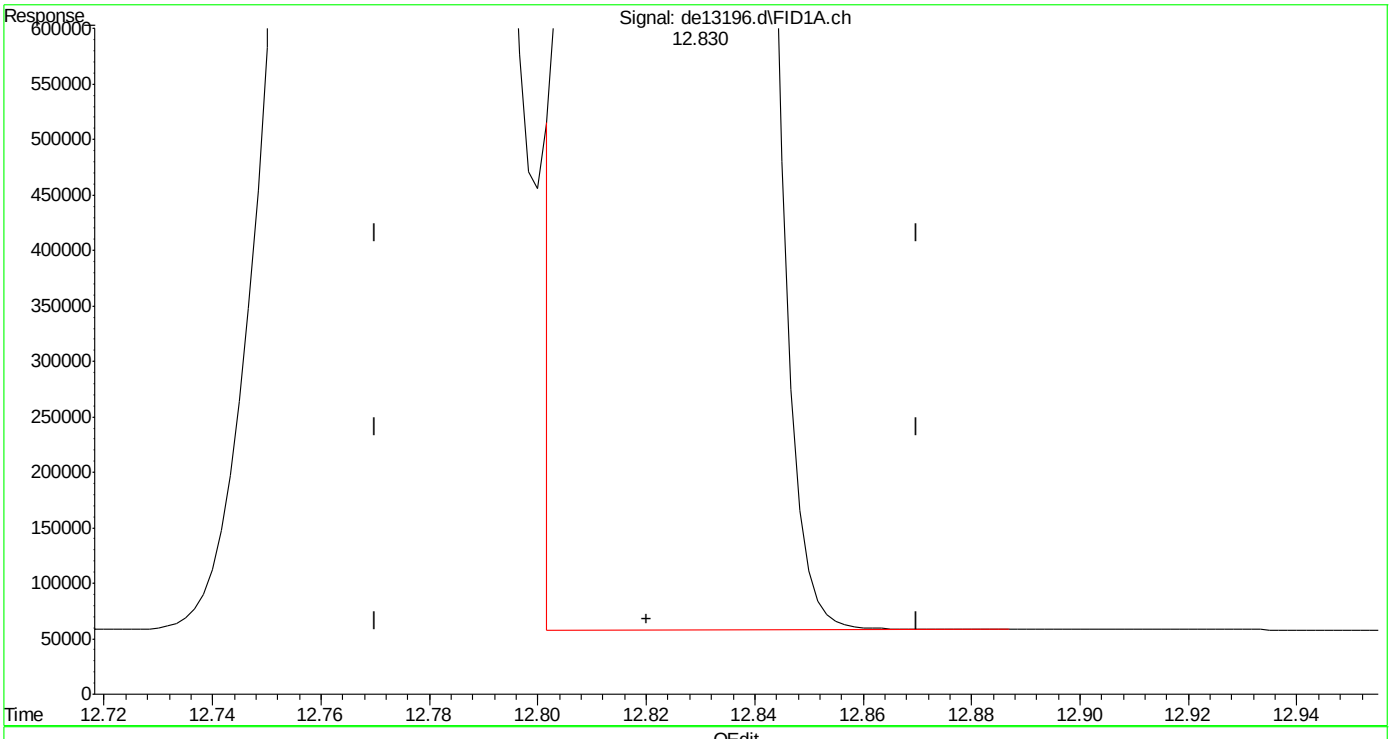
(+) = Expected Retention Time

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

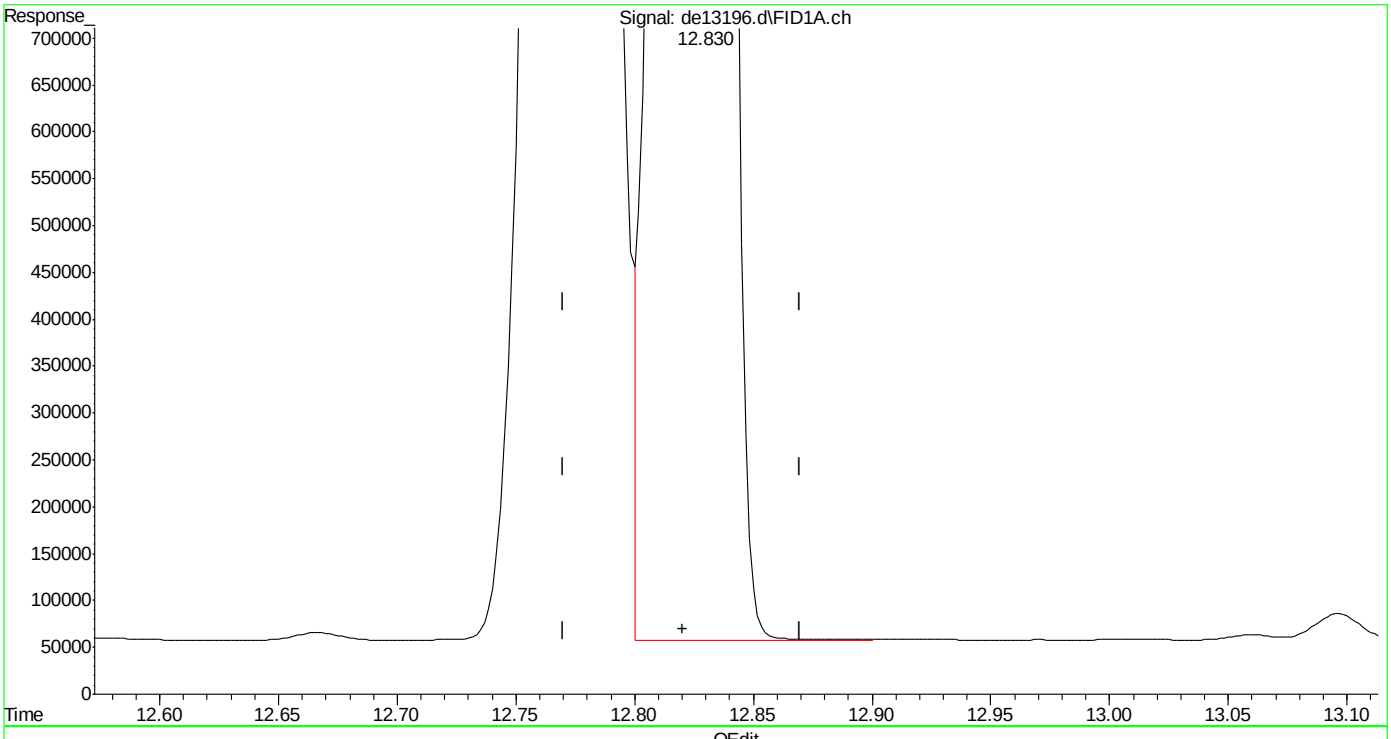
(+) = Expected Retention Time

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

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

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Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
38)	c-26	13.592	12045195	173.683	µg/ml
39)	c-28	14.385	11646376	173.584	µg/ml
40) h	c-30	15.122	11593413	170.863	µg/ml
41) h	c-36	17.010	10854654	179.925	µg/mlm

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

9.5.7

9

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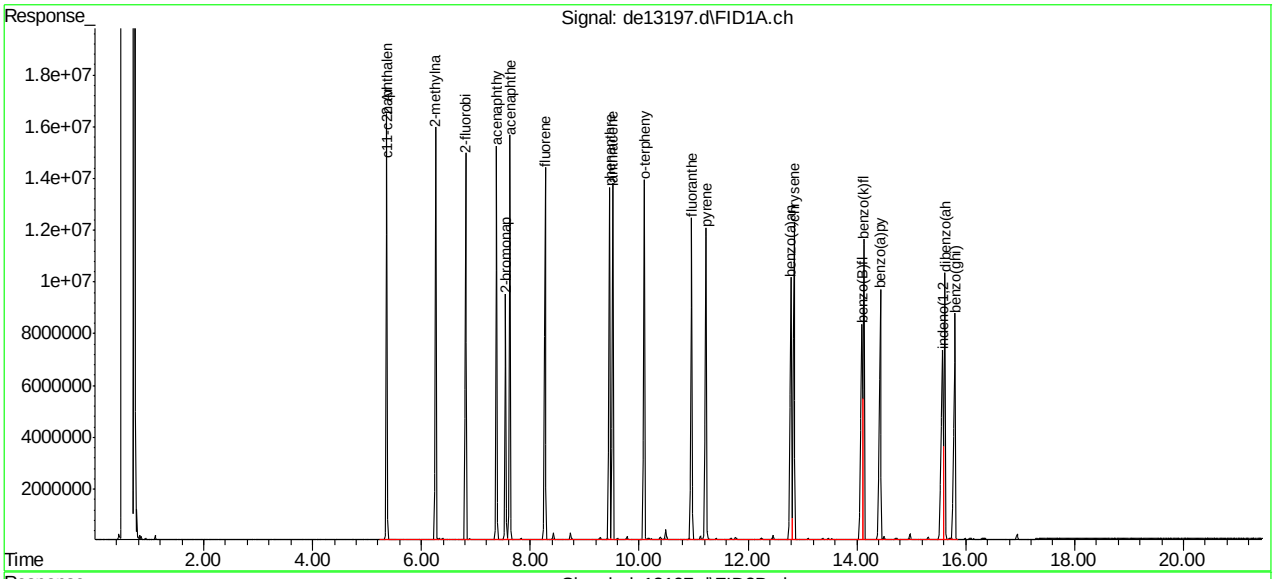
Quantitation Report (QT Reviewed)

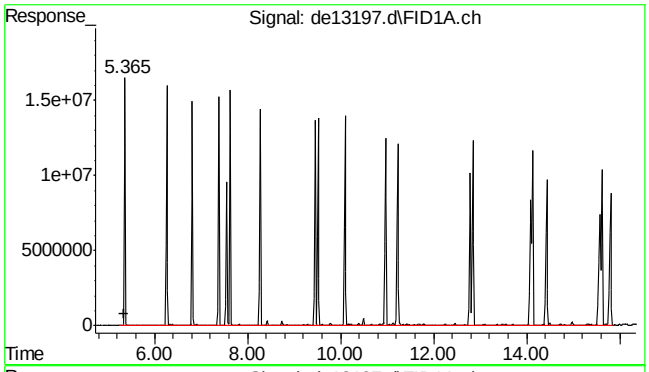
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:07:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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

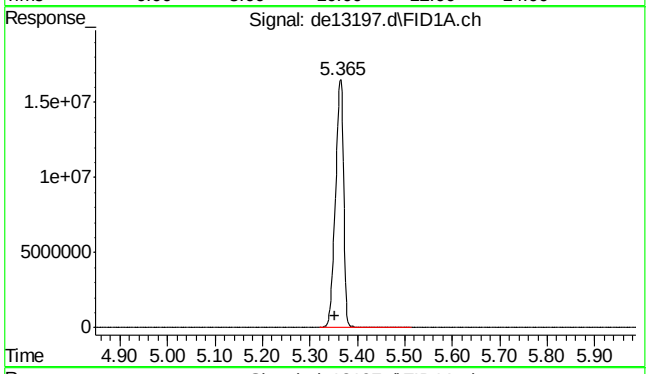


SGS ACCUTEST MC45580



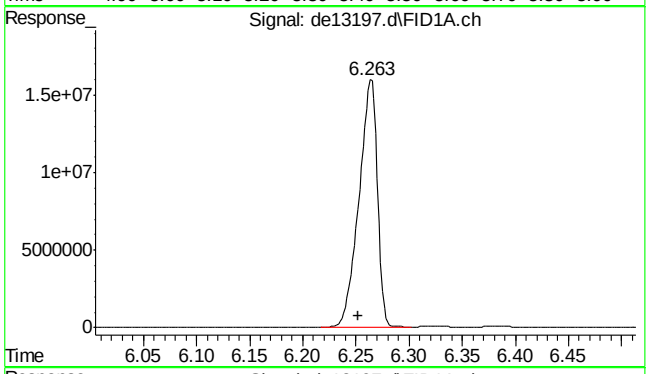
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.350 min
Delta R.T.: 0.000 min
Response: 316974952
Conc: 191.66 µg/ml m



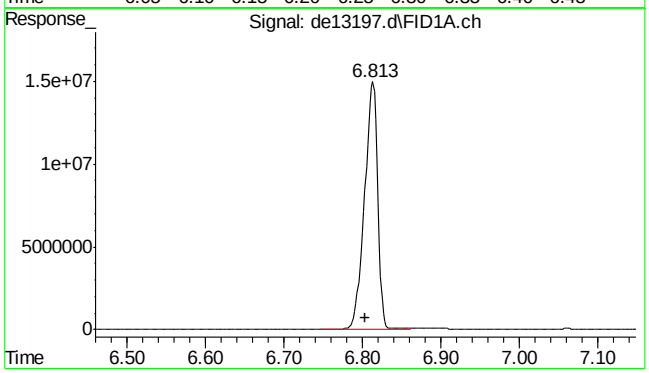
#2 naphthalene

R.T.: 5.365 min
Delta R.T.: 0.012 min
Response: 19450620
Conc: 187.64 µg/ml



#3 2-methylnaphthalene

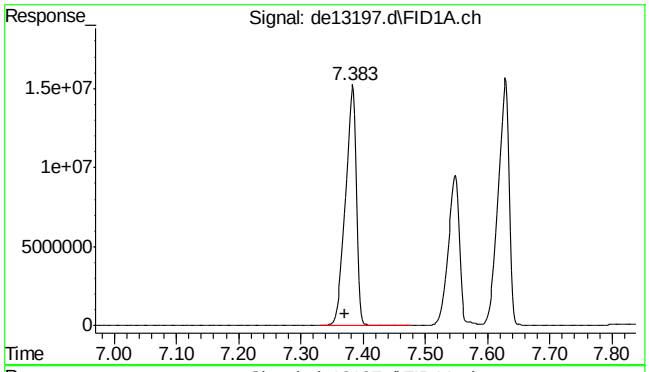
R.T.: 6.263 min
Delta R.T.: 0.011 min
Response: 19131536
Conc: 185.70 µg/ml



#4 2-fluorobiphenyl

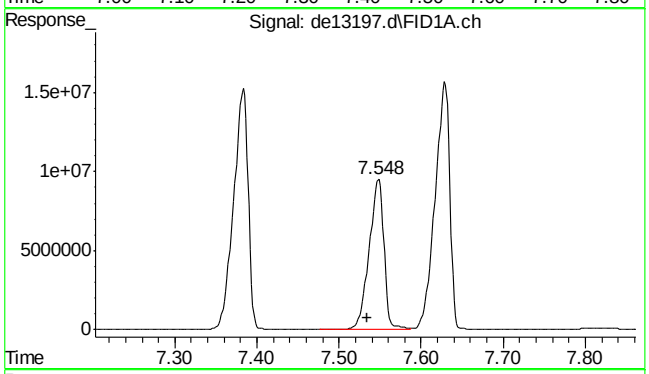
R.T.: 6.813 min
Delta R.T.: 0.010 min
Response: 17171697
Conc: 185.15 µg/ml

SGS ACCUTEST MC45580



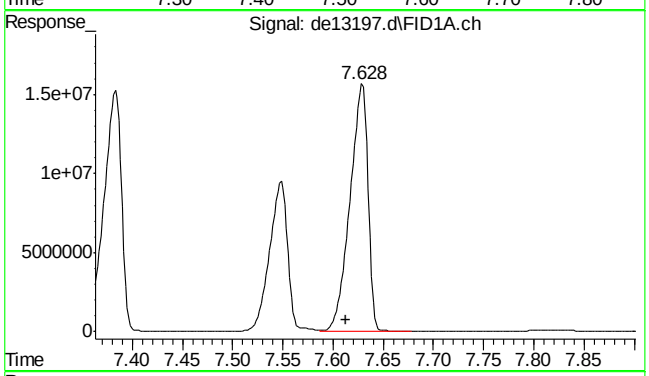
#5 acenaphthylene

R.T.: 7.383 min
Delta R.T.: 0.013 min
Response: 18686177
Conc: 184.33 µg/ml



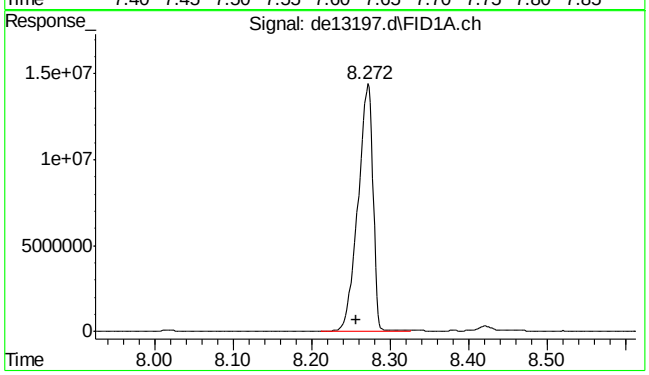
#6 2-bromonaphthalene

R.T.: 7.548 min
Delta R.T.: 0.013 min
Response: 11710947
Conc: 185.46 µg/ml



#7 acenaphthene

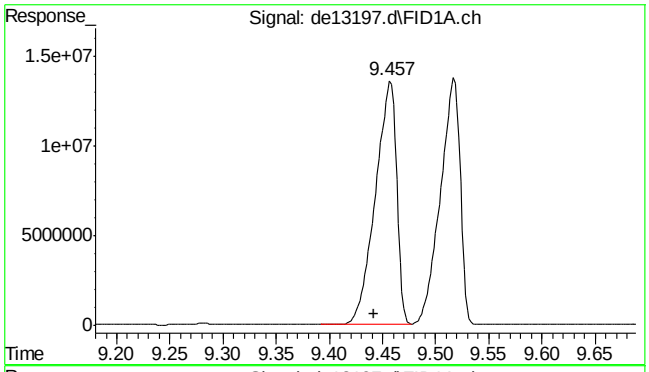
R.T.: 7.628 min
Delta R.T.: 0.015 min
Response: 19311298
Conc: 185.68 µg/ml



#8 fluorene

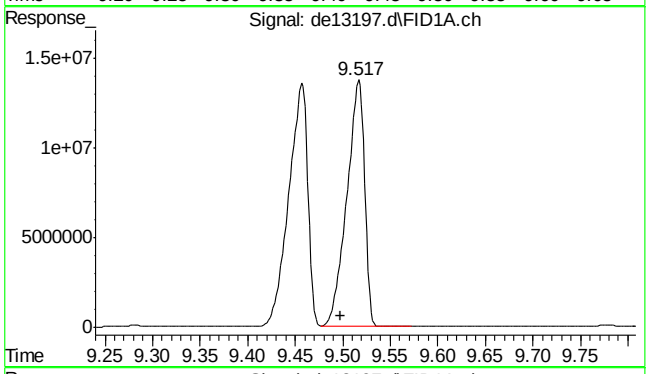
R.T.: 8.272 min
Delta R.T.: 0.015 min
Response: 18917157
Conc: 185.00 µg/ml

SGS ACCUTEST MC45580



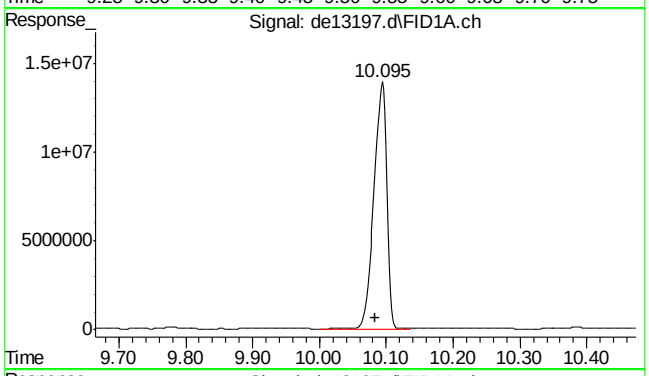
#9 phenanthrene

R.T.: 9.457 min
Delta R.T.: 0.015 min
Response: 18899419
Conc: 184.53 µg/ml



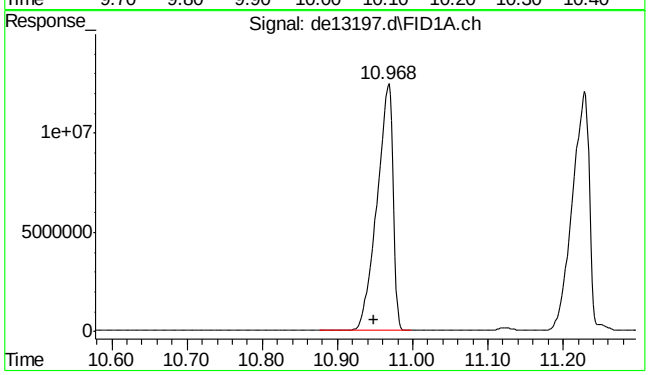
#10 anthracene

R.T.: 9.517 min
Delta R.T.: 0.019 min
Response: 17945874
Conc: 184.82 µg/ml



#11 o-terphenyl

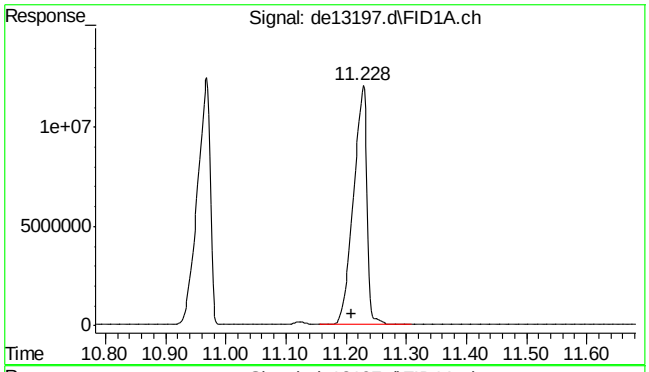
R.T.: 10.095 min
Delta R.T.: 0.012 min
Response: 18995194
Conc: 184.43 µg/ml



#12 fluoranthene

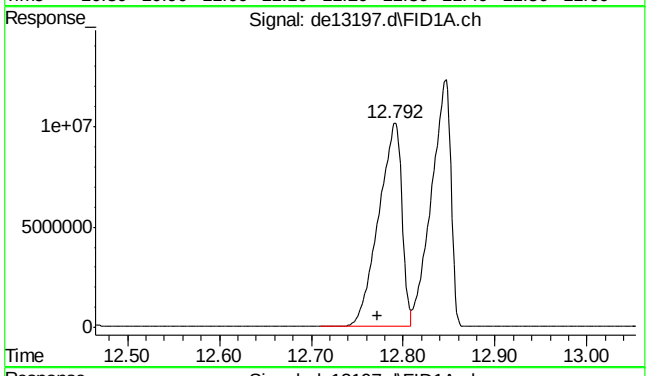
R.T.: 10.968 min
Delta R.T.: 0.020 min
Response: 18457513
Conc: 183.37 µg/ml

SGS ACCUTEST MC45580



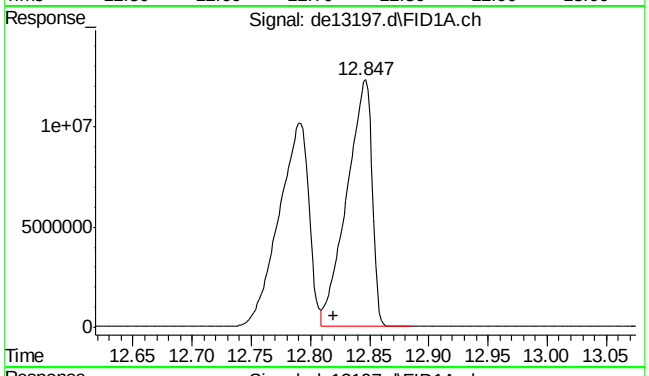
#13 pyrene

R.T.: 11.228 min
Delta R.T.: 0.018 min
Response: 18932497
Conc: 185.31 µg/ml



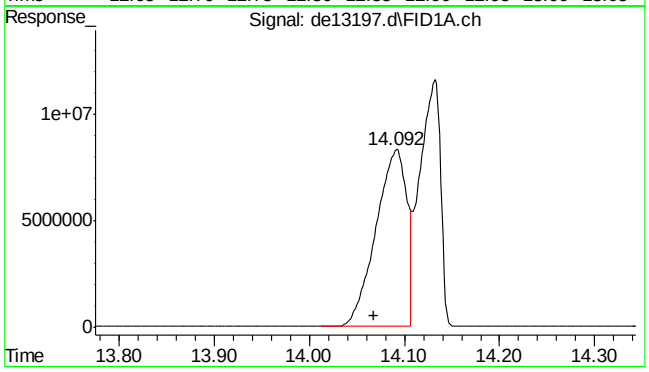
#14 benzo(a)anthracene

R.T.: 12.792 min
Delta R.T.: 0.020 min
Response: 17872955
Conc: 183.62 µg/ml m



#15 chrysene

R.T.: 12.847 min
Delta R.T.: 0.027 min
Response: 18069681
Conc: 184.43 µg/ml m



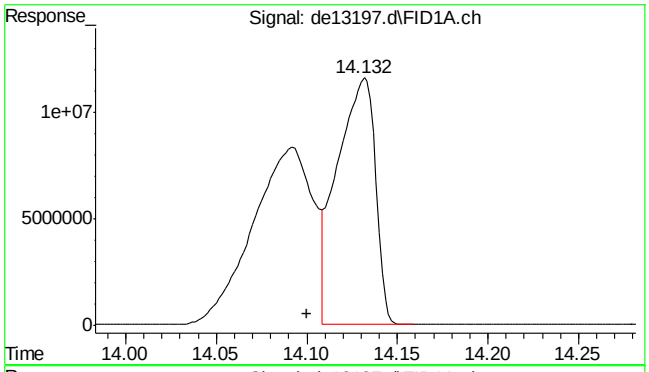
#16 benzo(B)fluoranthene

R.T.: 14.092 min
Delta R.T.: 0.024 min
Response: 18893122
Conc: 189.47 µg/ml

9.5.7

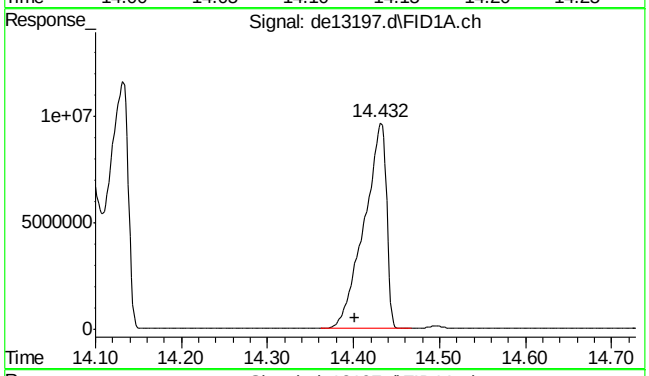
9

SGS ACCUTEST MC45580



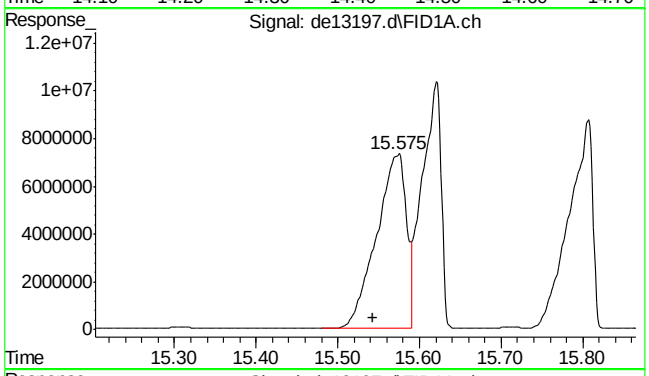
#17 benzo(k)fluoranthene

R.T.: 14.132 min
Delta R.T.: 0.032 min
Response: 16859064
Conc: 175.36 µg/ml m



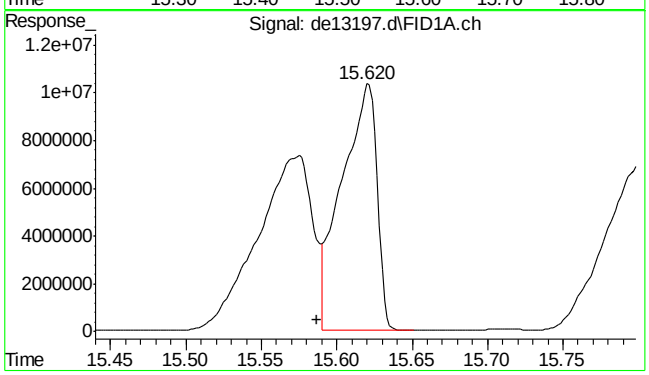
#18 benzo(a)pyrene

R.T.: 14.432 min
Delta R.T.: 0.030 min
Response: 17319408
Conc: 185.11 µg/ml



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

R.T.: 15.575 min
Delta R.T.: 0.032 min
Response: 18670540
Conc: 194.06 µg/ml m



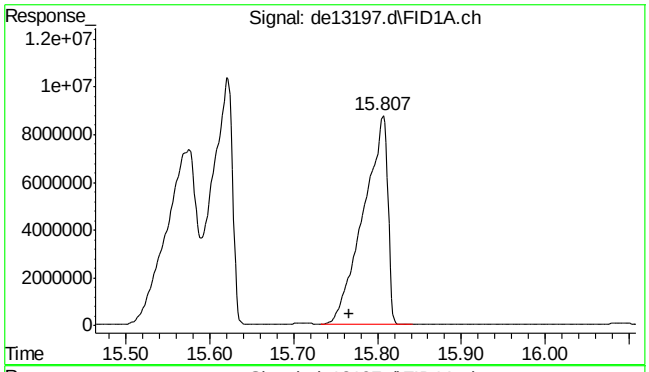
#20 dibenzo(ah)anthracene

R.T.: 15.620 min
Delta R.T.: 0.033 min
Response: 16610466
Conc: 180.15 µg/ml m

9.5.7

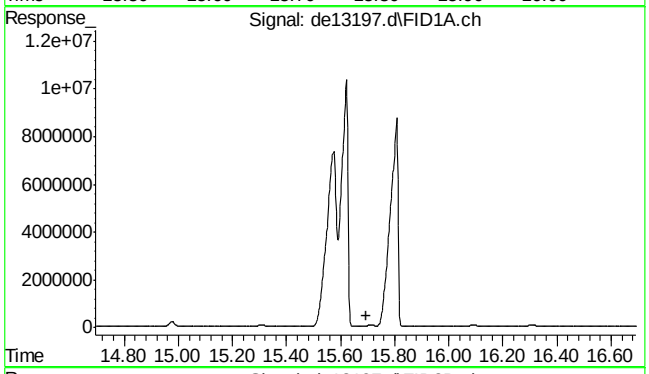
9

SGS ACCUTEST MC45580



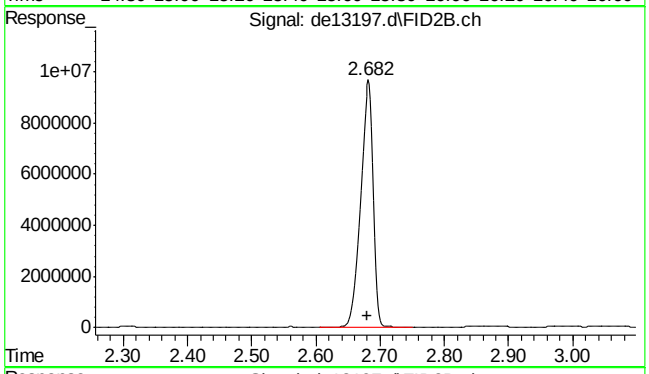
#21 benzo(ghi)perylene

R.T.: 15.807 min
Delta R.T.: 0.040 min
Response: 17523714
Conc: 188.13 µg/ml m



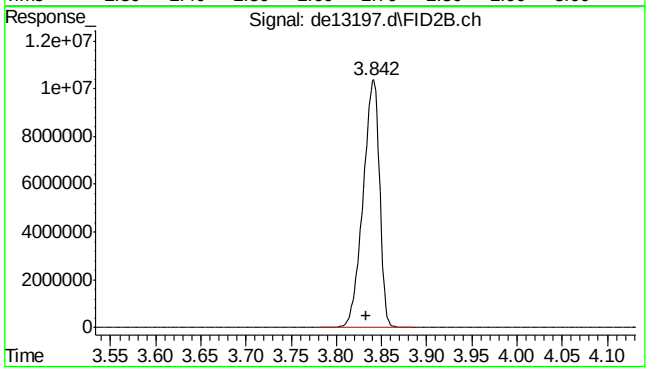
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.680 min
Delta R.T.: 0.000 min
Response: 13093571
Conc: 173.26 µg/ml m



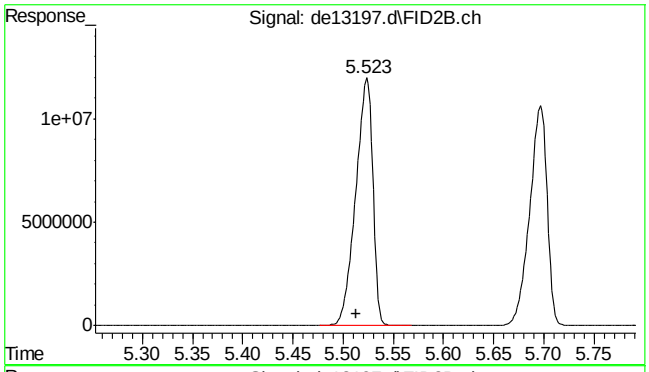
#26 c-10

R.T.: 3.833 min
Delta R.T.: 0.000 min
Response: 13149397
Conc: 172.60 µg/ml

9.5.7

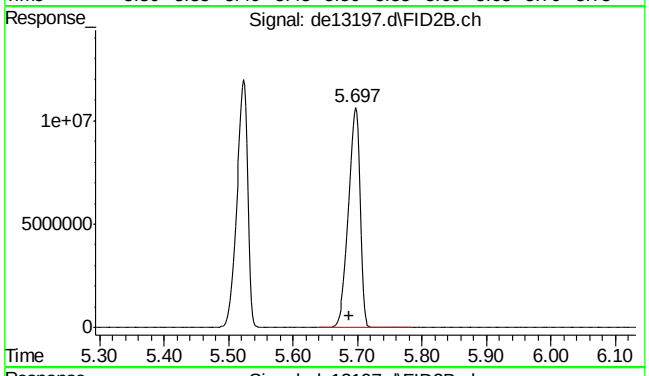
9

SGS ACCUTEST MC45580



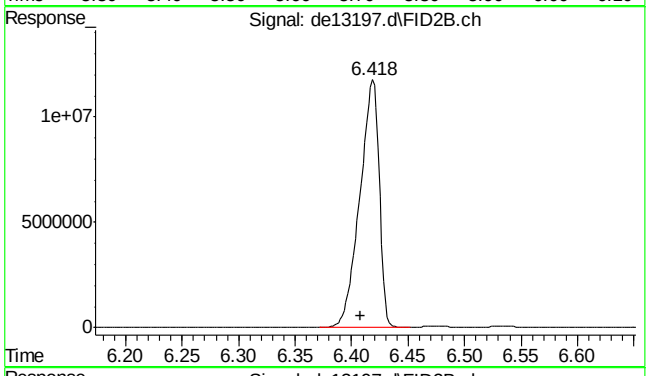
#27 naphthalene #2

R.T.: 5.523 min
Delta R.T.: 0.010 min
Response: 14006239
Conc: 175.25 µg/ml



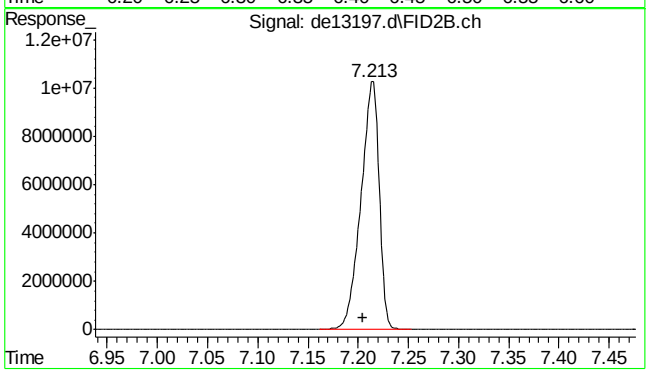
#28 c-12

R.T.: 5.697 min
Delta R.T.: 0.009 min
Response: 12963152
Conc: 171.35 µg/ml



#29 2-methylnaphthalene #2

R.T.: 6.418 min
Delta R.T.: 0.010 min
Response: 13931230
Conc: 172.09 µg/ml



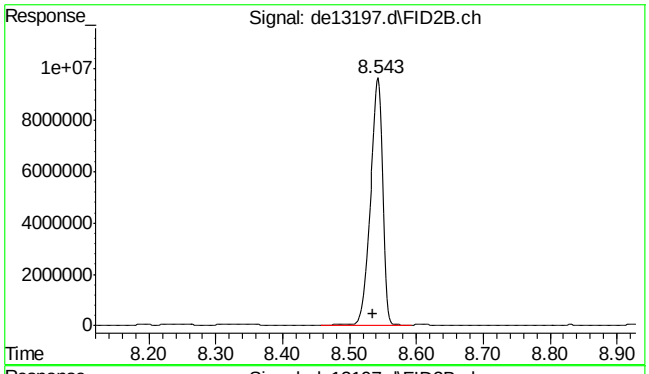
#30 c-14

R.T.: 7.213 min
Delta R.T.: 0.008 min
Response: 12790598
Conc: 169.62 µg/ml

9.5.7

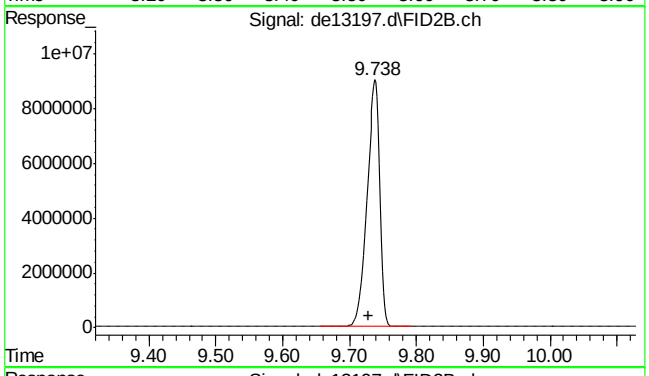
9

SGS ACCUTEST MC45580



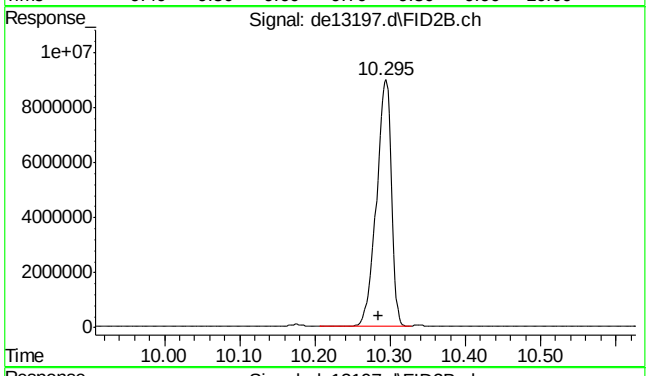
#31 c-16

R.T.: 8.543 min
Delta R.T.: 0.008 min
Response: 12583573
Conc: 168.46 µg/ml



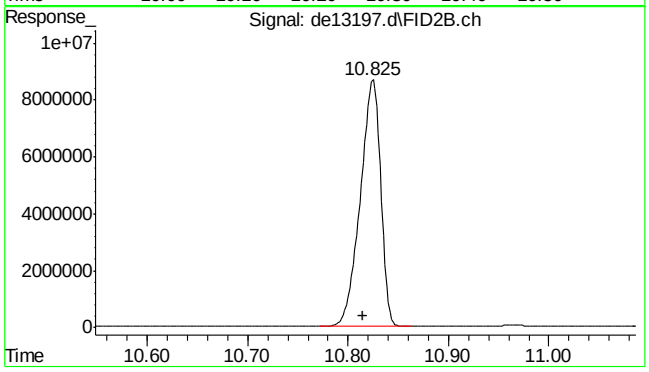
#32 c-18

R.T.: 9.738 min
Delta R.T.: 0.010 min
Response: 12493898
Conc: 168.99 µg/ml



#33 c-19

R.T.: 10.295 min
Delta R.T.: 0.010 min
Response: 12406524
Conc: 171.31 µg/ml



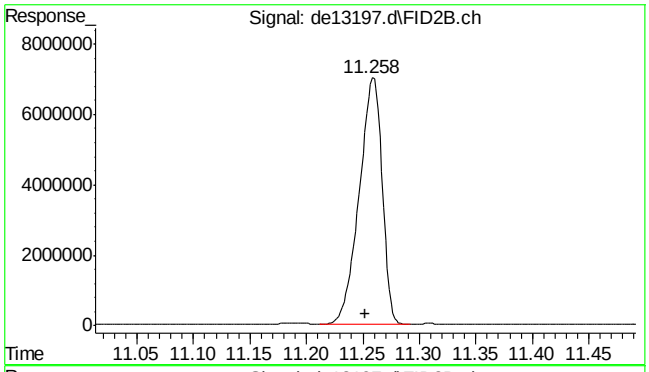
#34 c-20

R.T.: 10.825 min
Delta R.T.: 0.010 min
Response: 12189358
Conc: 171.74 µg/ml

9.5.7

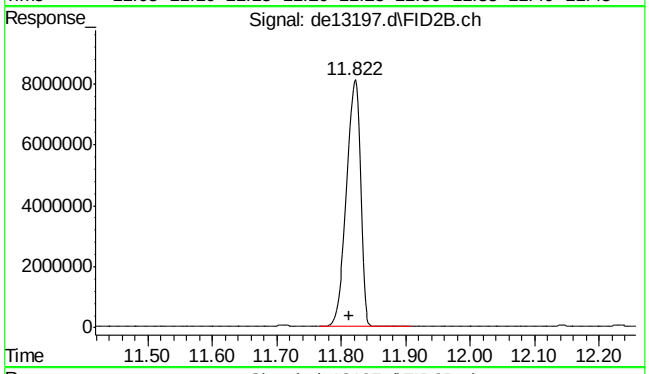
9

SGS ACCUTEST MC45580



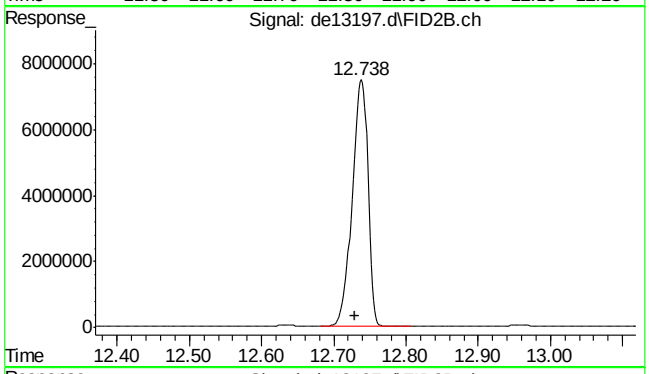
#35 1-chlorooctadecane

R.T.: 11.258 min
Delta R.T.: 0.006 min
Response: 9870838
Conc: 174.49 µg/ml



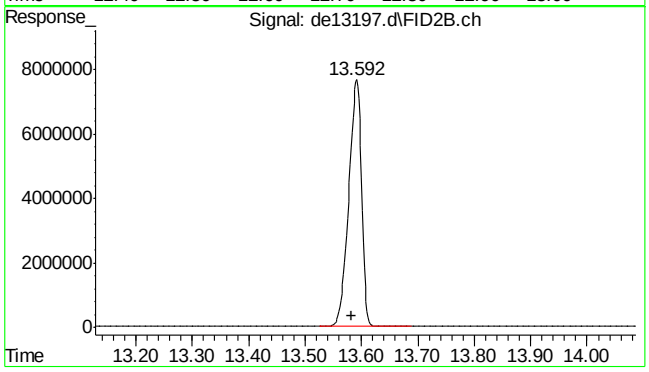
#36 c-22

R.T.: 11.822 min
Delta R.T.: 0.010 min
Response: 12115679
Conc: 172.97 µg/ml



#37 c-24

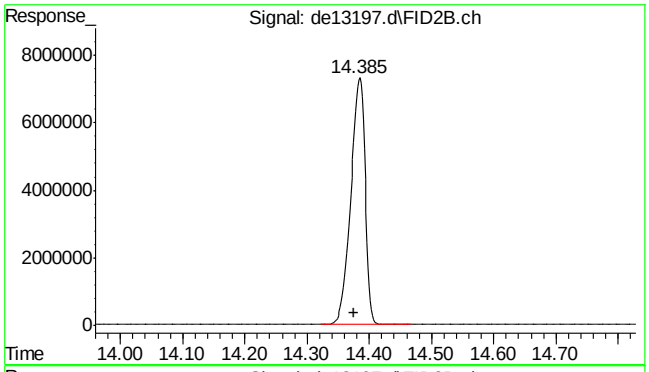
R.T.: 12.738 min
Delta R.T.: 0.008 min
Response: 11324691
Conc: 171.29 µg/ml



#38 c-26

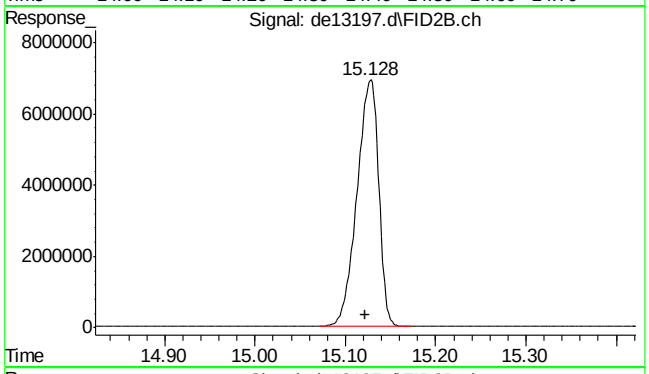
R.T.: 13.592 min
Delta R.T.: 0.010 min
Response: 12045195
Conc: 173.68 µg/ml

SGS ACCUTEST MC45580



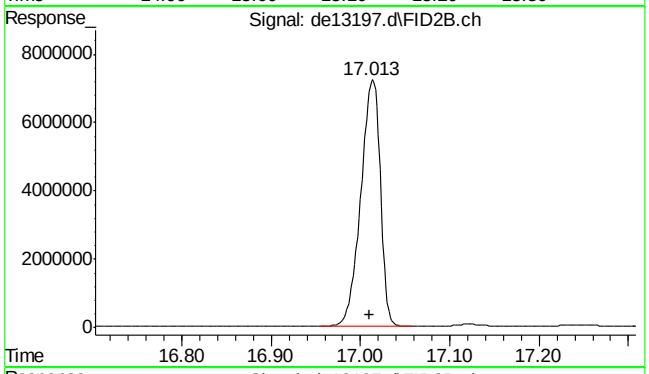
#39 c-28

R.T.: 14.385 min
Delta R.T.: 0.010 min
Response: 11646376
Conc: 173.58 µg/ml



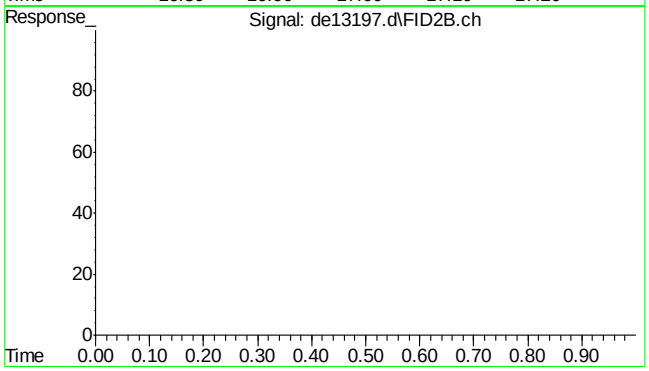
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 11593413
Conc: 170.86 µg/ml



#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 10854654
Conc: 179.92 µg/ml m



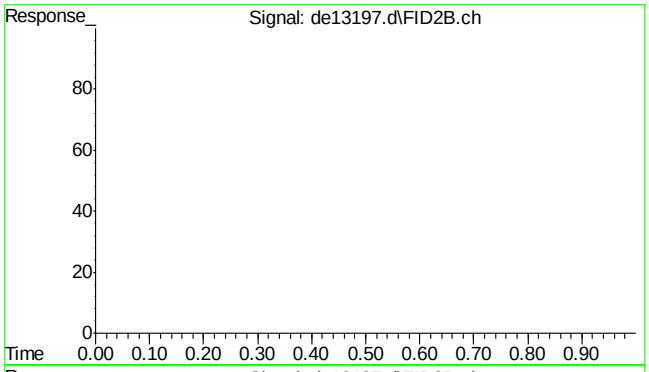
#42 bht

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

9.5.7

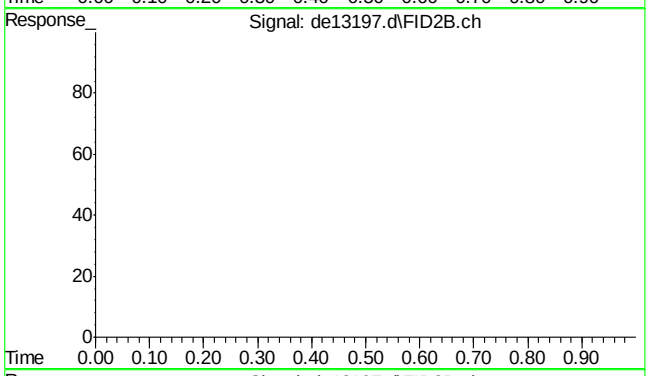
9

SGS ACCUTEST MC45580



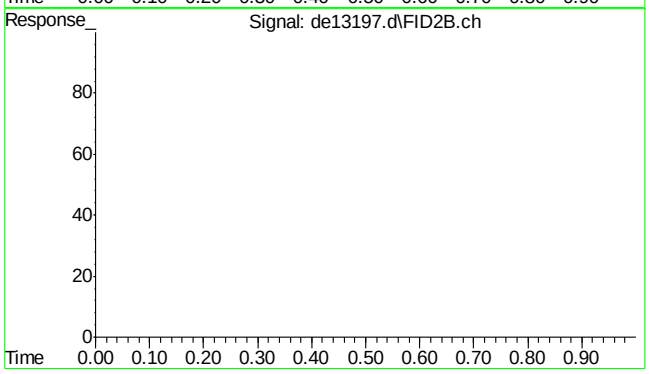
#43 bht

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.

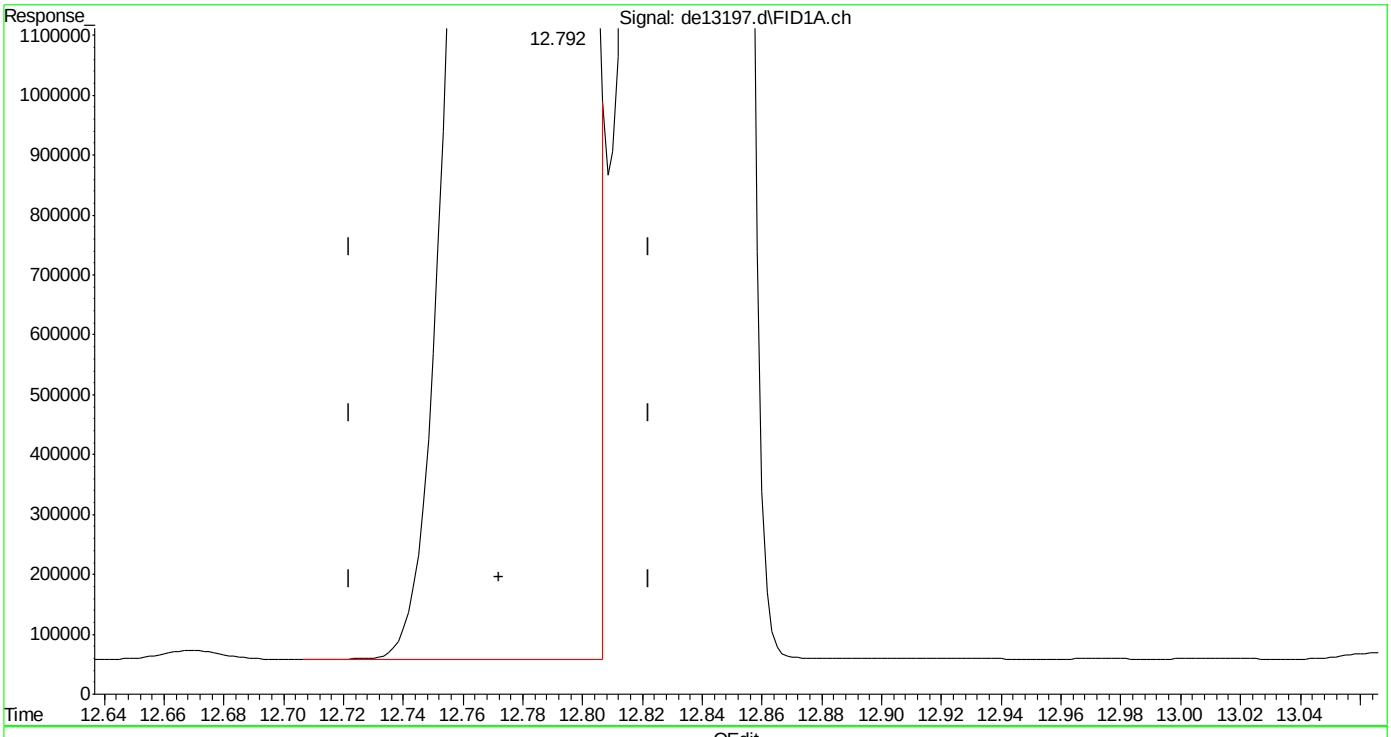
SGS ACCUTEST MC45580

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

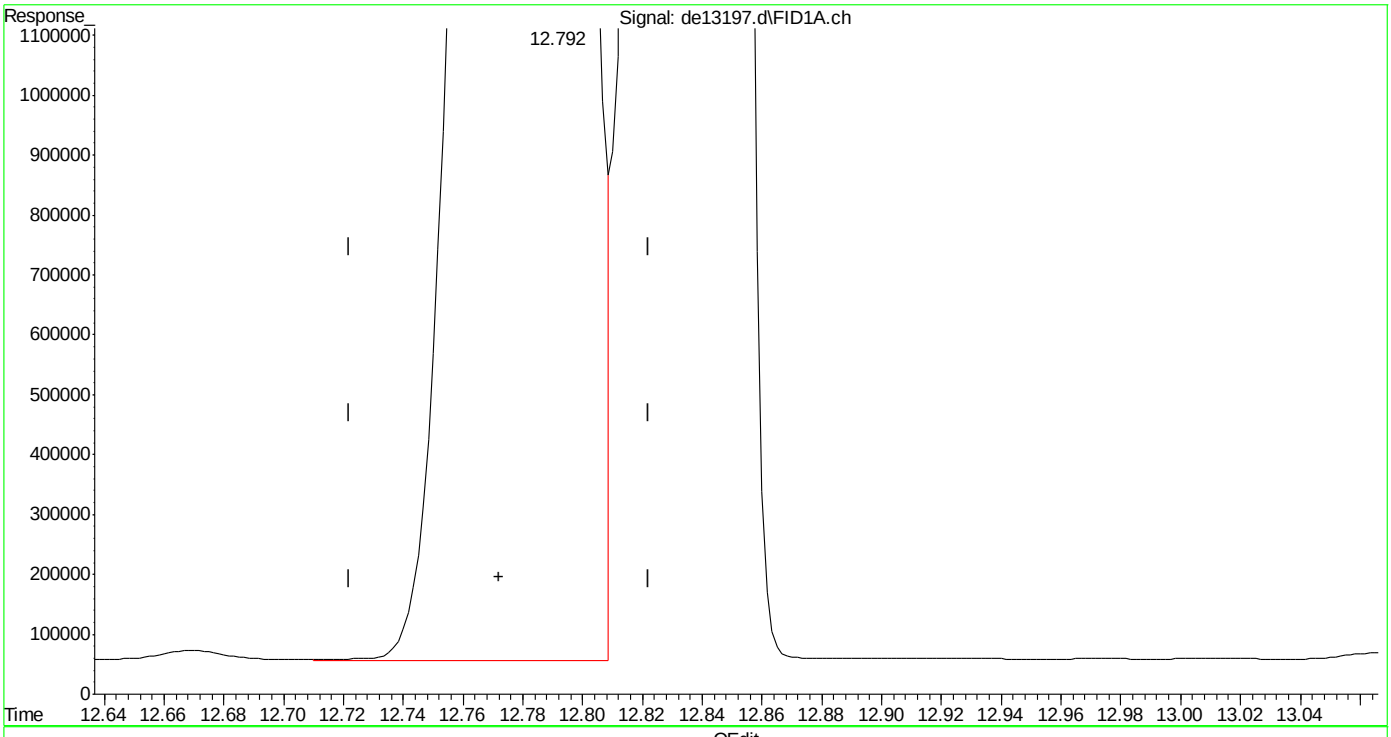
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(14) benzo(a)anthracene
12.792min 183.617 µg/ml m
response 17872955

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:03:33 2016

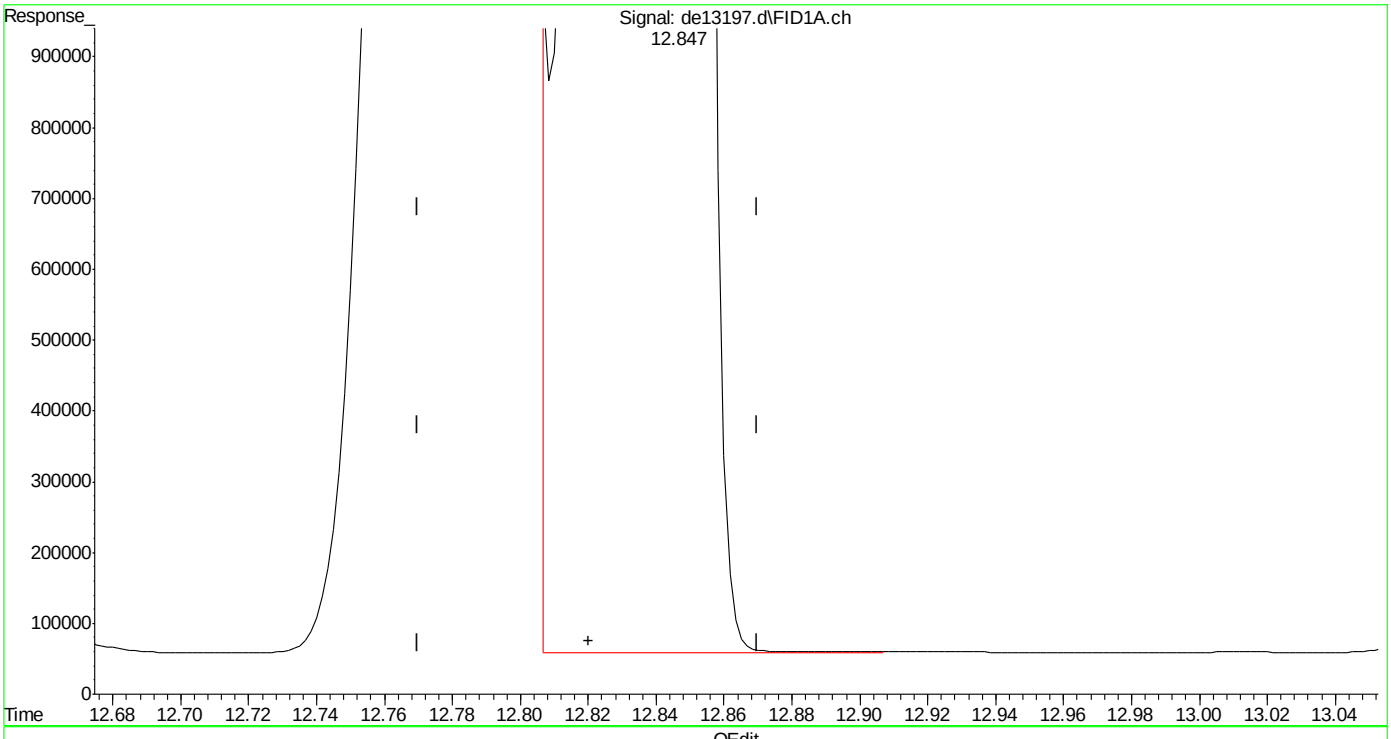
SGS ACCUTEST MC45580

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

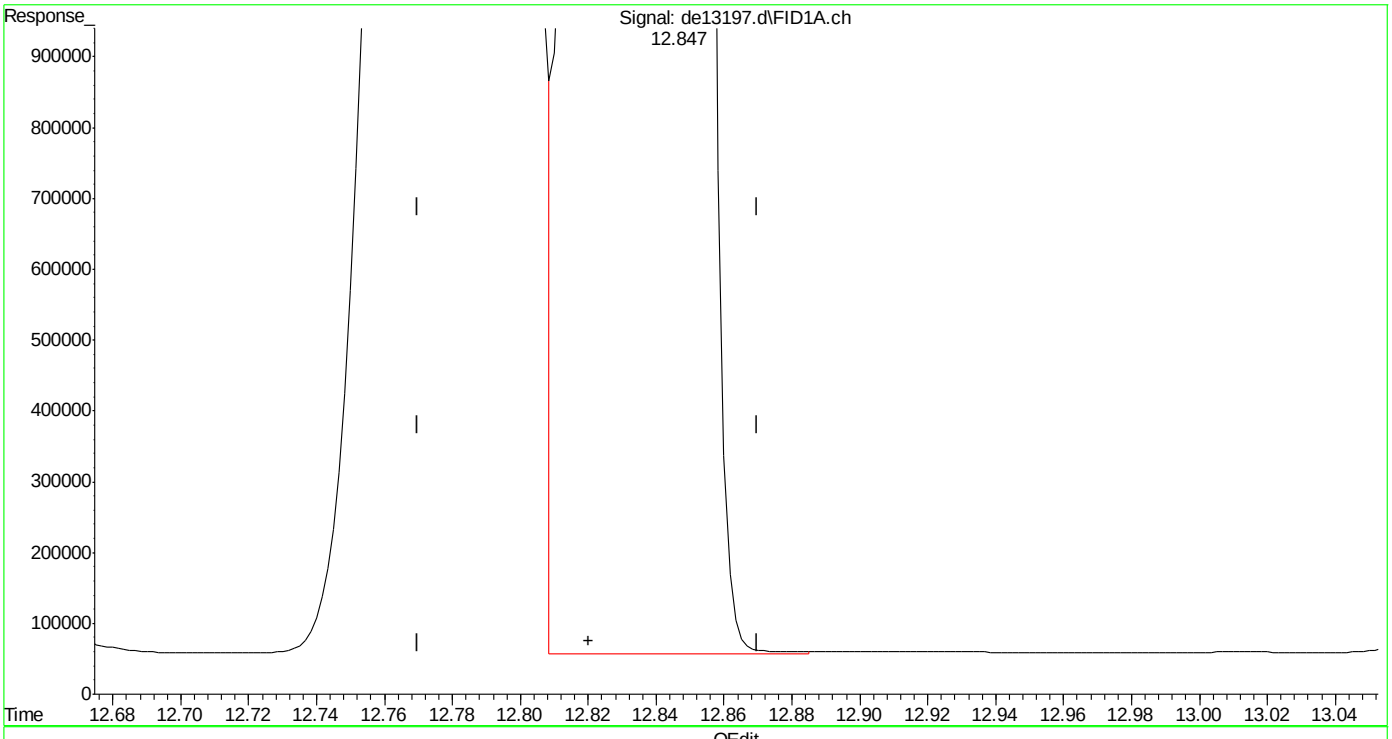
SGS ACCUTEST MC45580

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

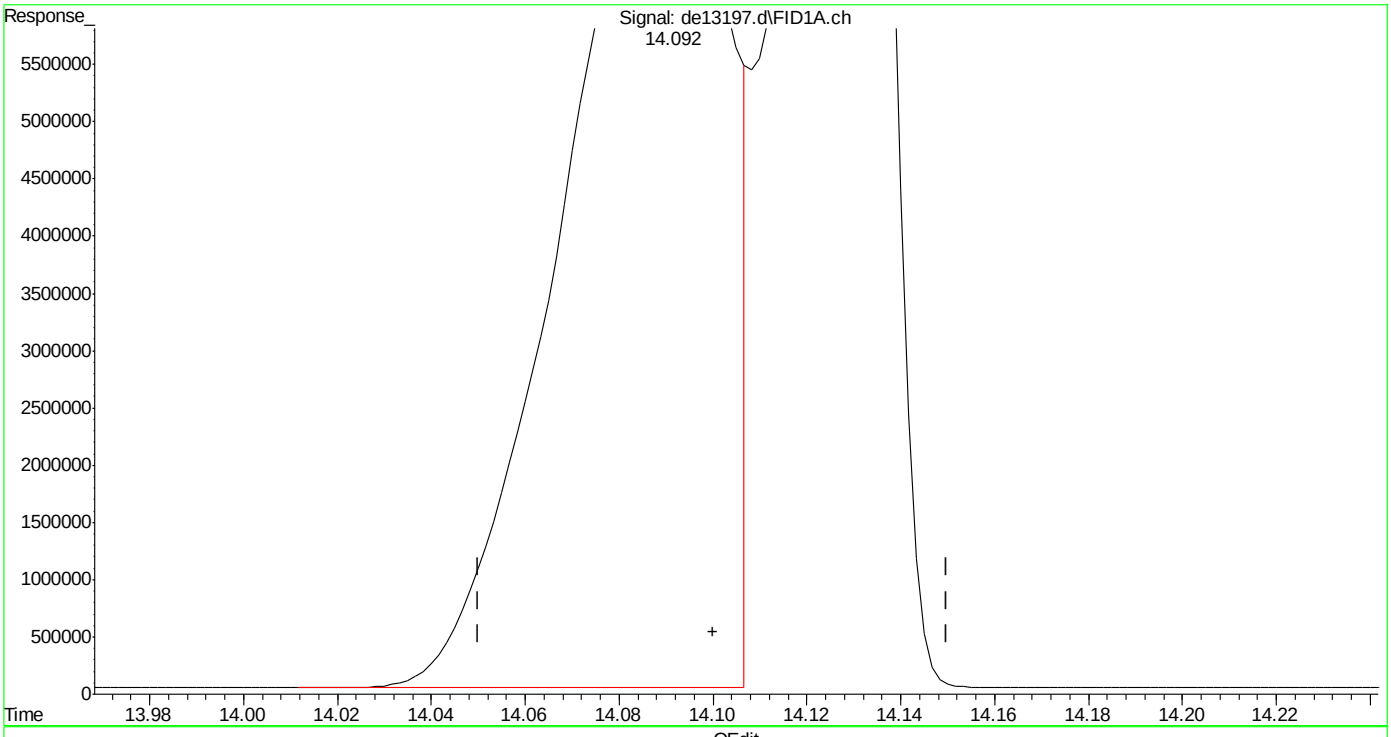
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.092min 196.520 µg/ml
response 18893122

(+) = Expected Retention Time

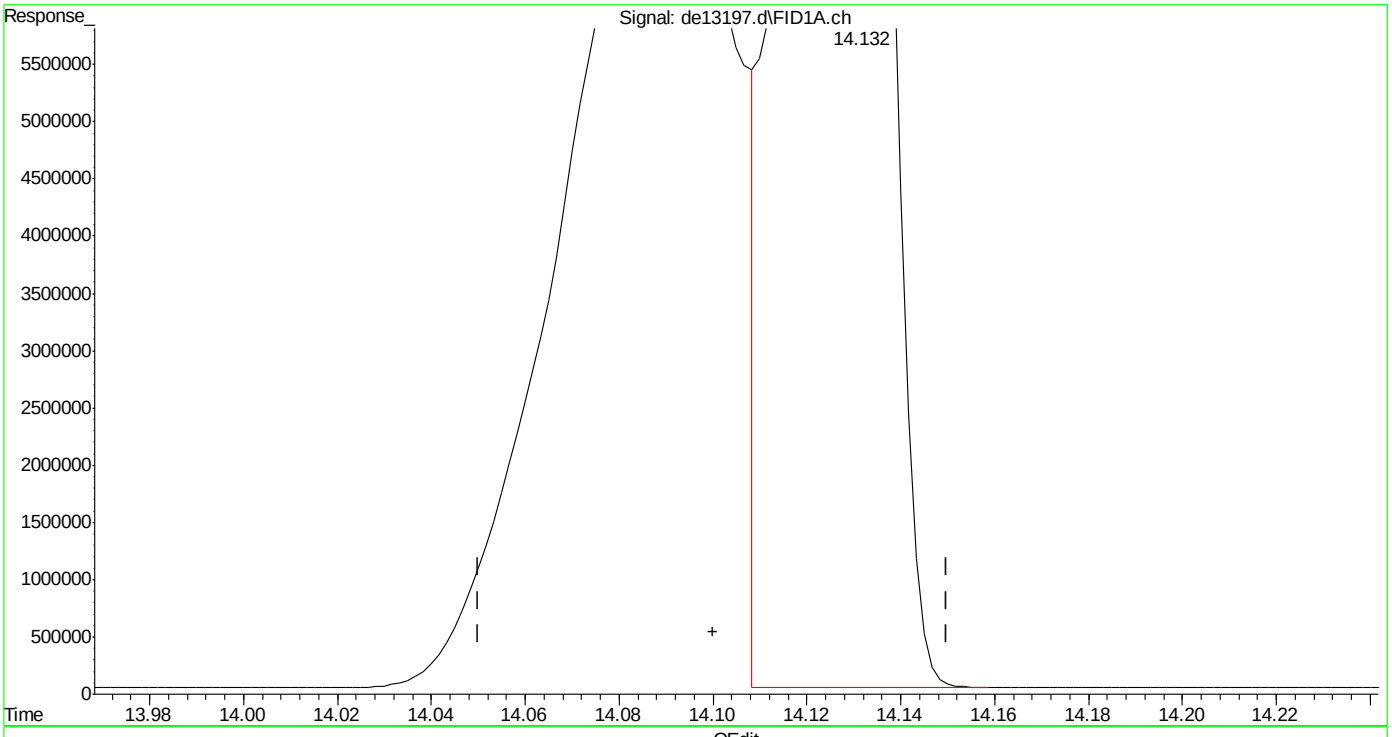
EPH160204M.M Fri Feb 05 11:04:36 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.132min 175.363 µg/ml m
response 16859064

(+) = Expected Retention Time

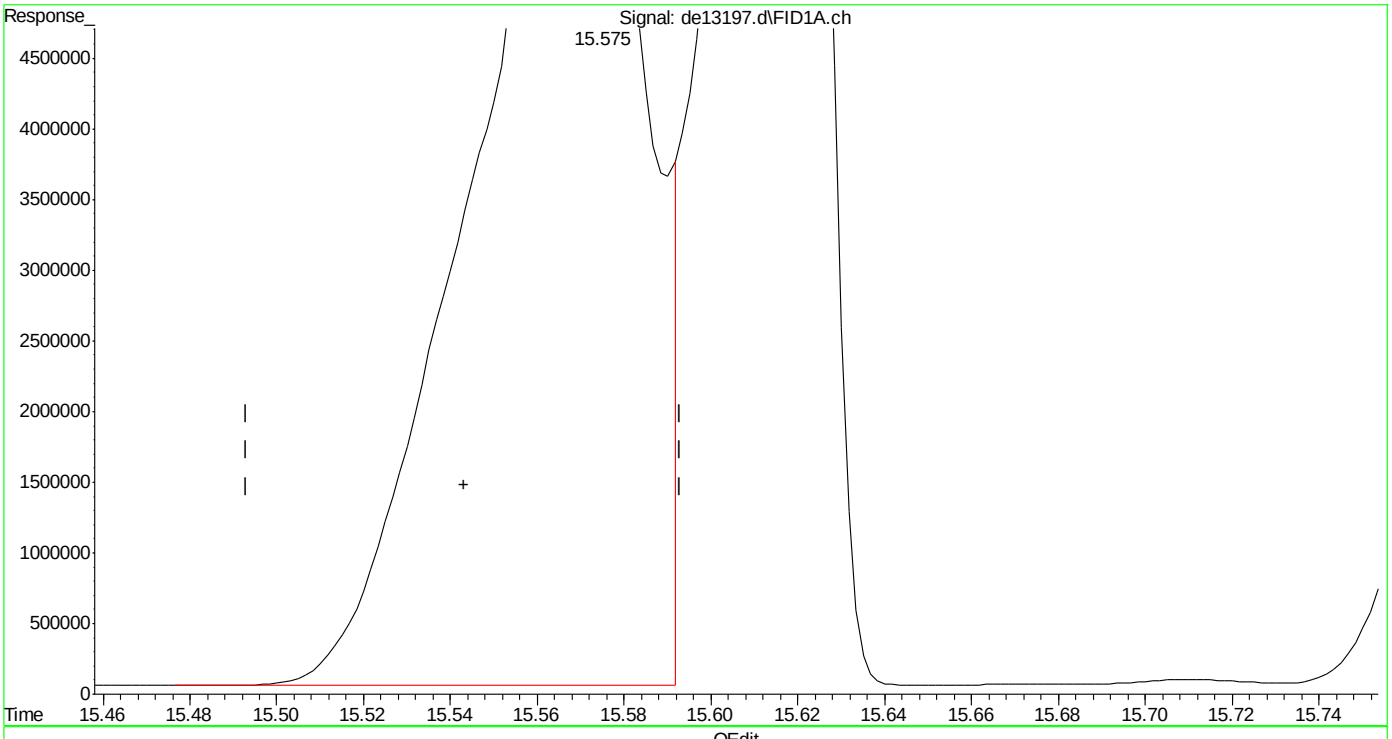
SGS ACCUTEST MC45580

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

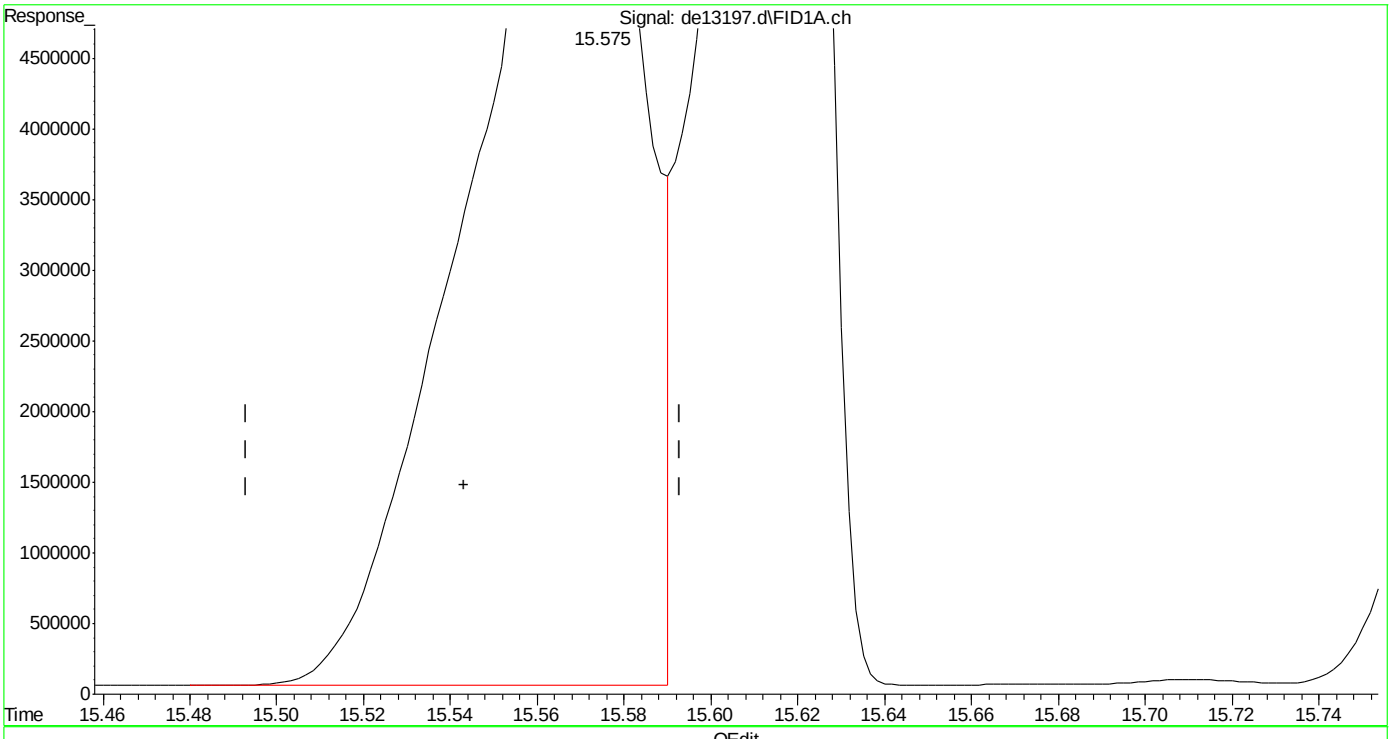
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(19) indeno(1,2,3-cd)pyrene
15.575min 194.062 µg/ml m
response 18670540

(+) = Expected Retention Time

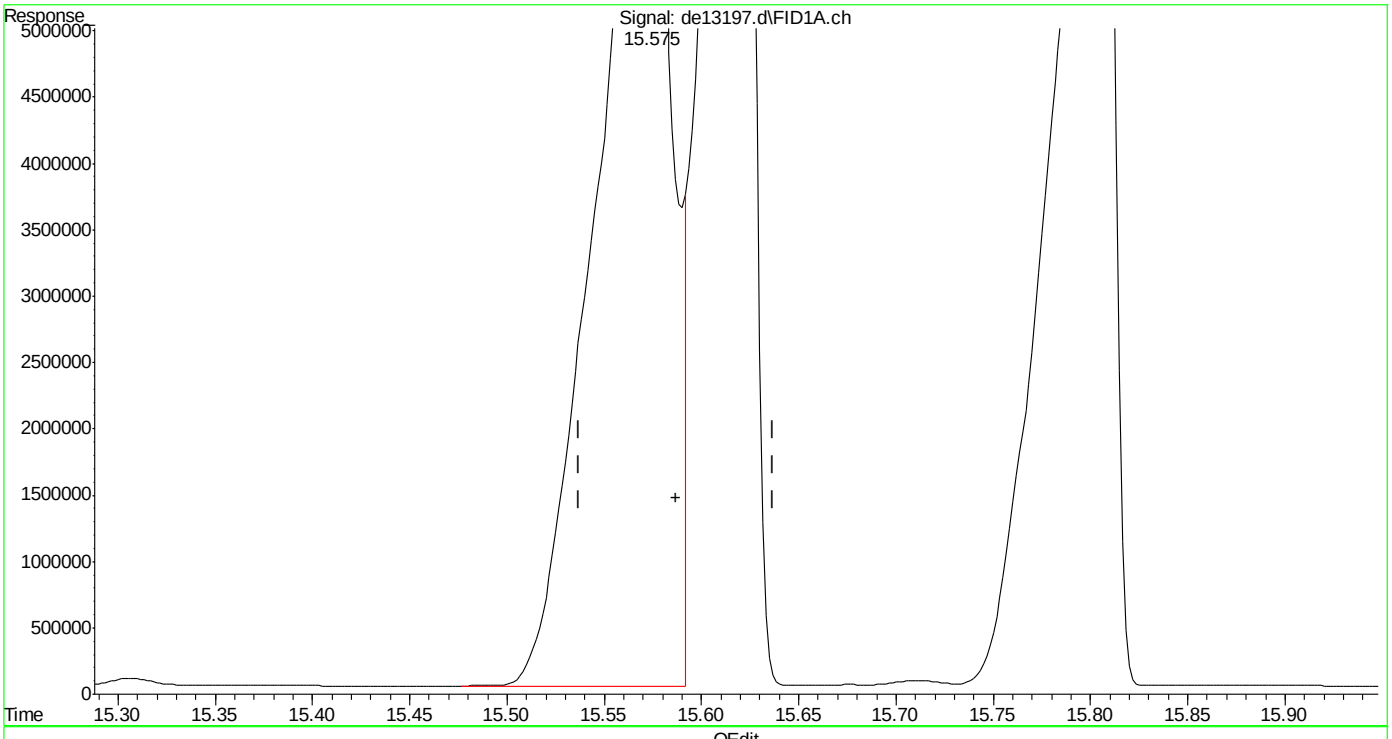
SGS ACCUTEST MC45580

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

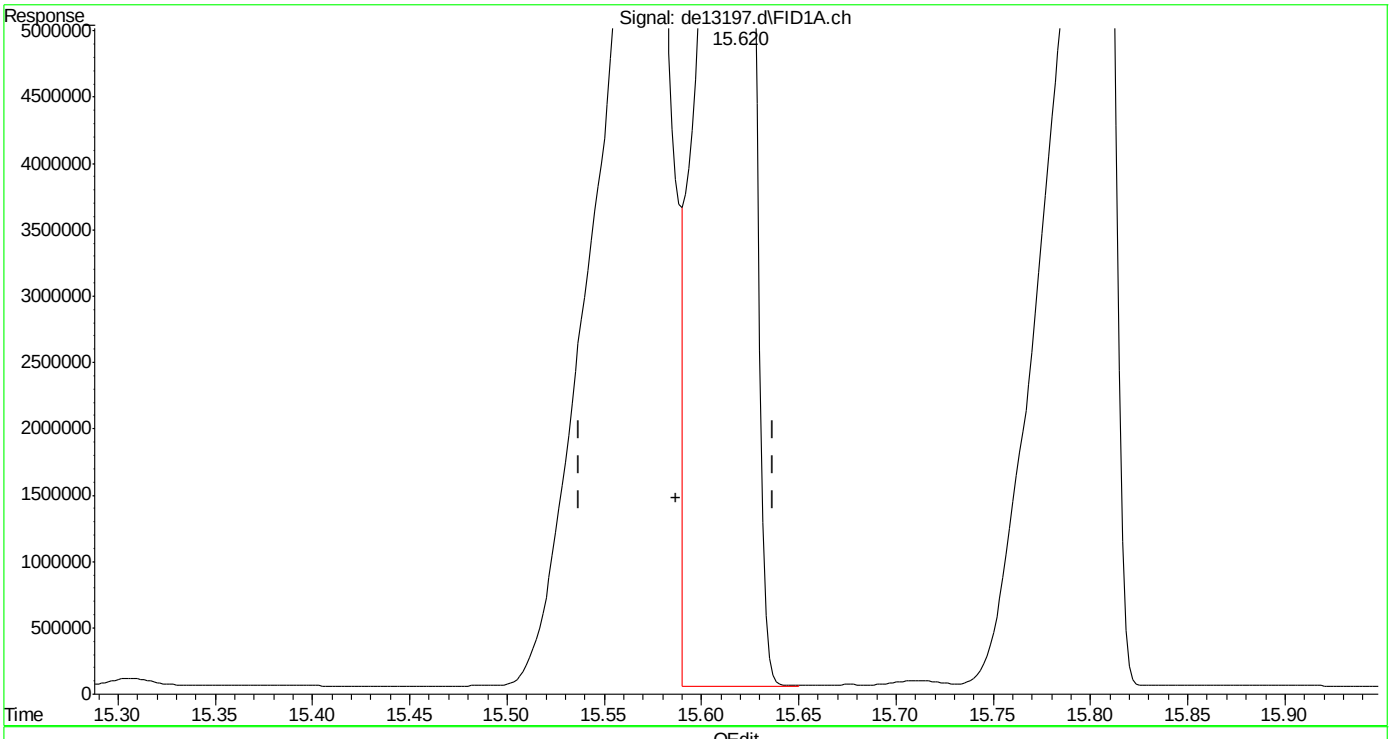
SGS ACCUTEST MC45580

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

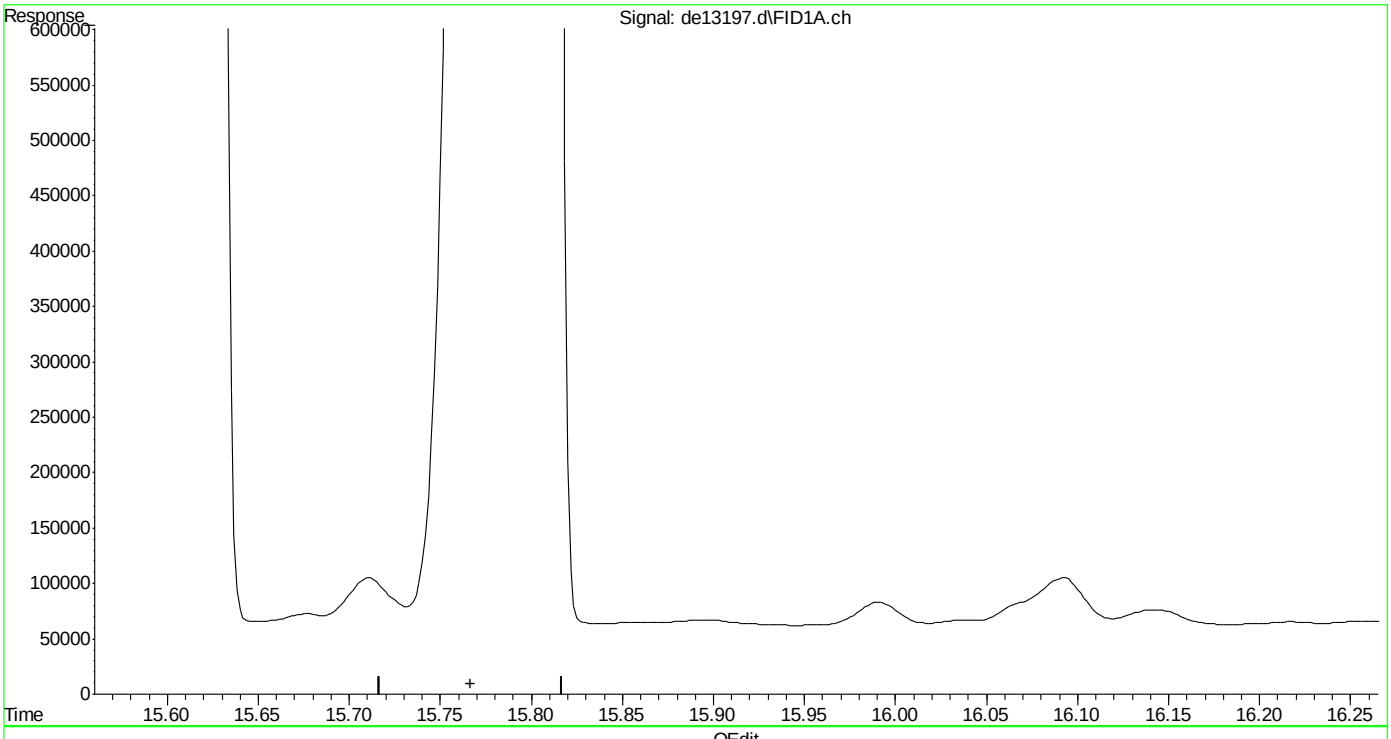
SGS ACCUTEST MC45580

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

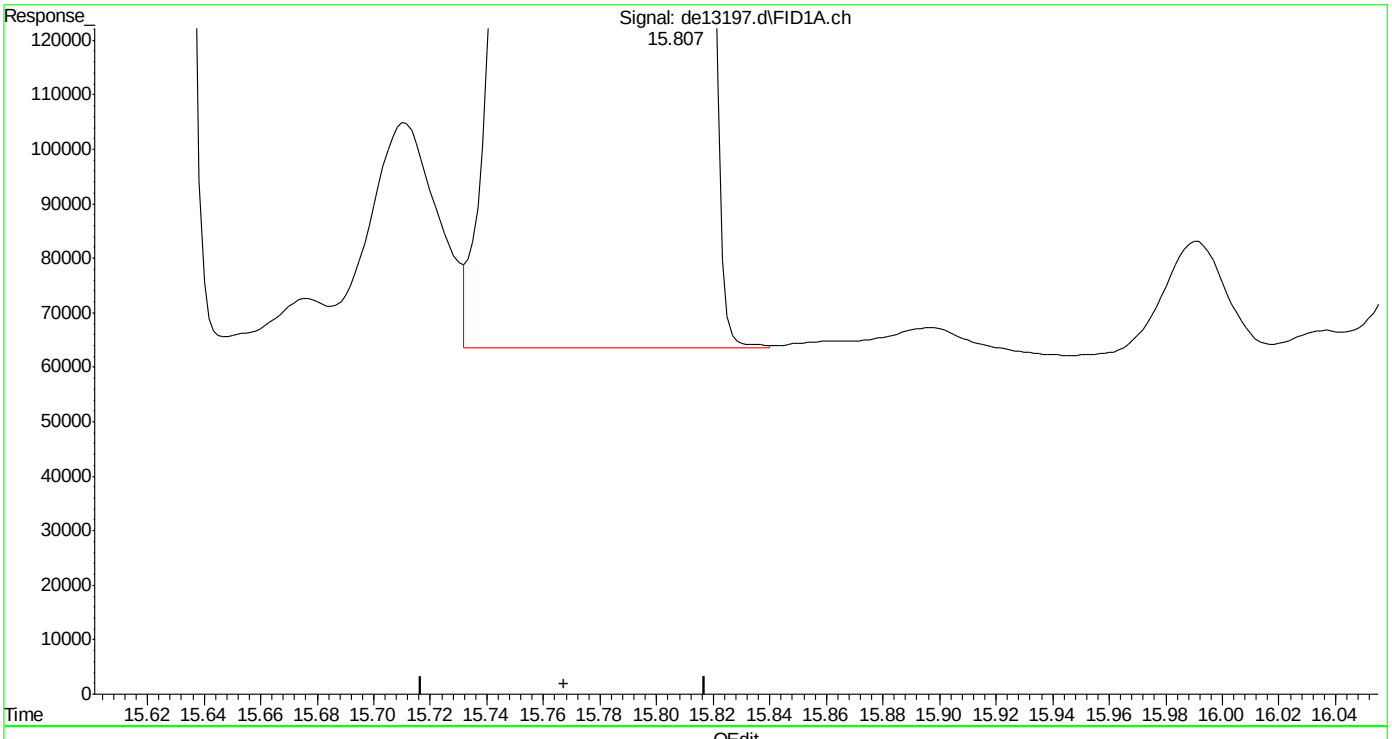
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13197.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 6:54 pm
Operator : thomasa
Sample : ic735-200
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:02:40 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204M.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:02:33 2016
Response via : Initial Calibration
Integrator: RTE

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



(21) benzo(ghi)perylene
15.807min 188.129 µg/ml m
response 17523714

(+) = Expected Retention Time
EPH160204M.M Fri Feb 05 11:05:54 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
02/05/16 16:58

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

Compound	R.T.	Response	Conc Units
System Monitoring Compounds			
4) s 2-fluorobiphenyl	6.807	4785763	51.889 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.44%#	
6) s 2-bromonaphthalene	7.540	3261205	51.967 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.83%#	
11) s o-terphenyl	10.085	5227790	51.039 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 255.20%#	
35) s 1-chlorooctadecane	11.252	2968966	52.479 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 262.39%#	
Target Compounds			
2) naphthalene	5.357	5321324	51.593 µg/ml
3) 2-methylnaphthalene	6.255	5225758	50.992 µg/ml
5) acenaphthylene	7.373	5189401	51.584 µg/ml
7) acenaphthene	7.617	5299977	51.269 µg/ml
8) fluorene	8.260	5216935	51.364 µg/ml
9) phenanthrene	9.443	5176102	50.864 µg/ml
10) anthracene	9.502	5163442	53.227 µg/ml
12) fluoranthene	10.953	5147188	51.502 µg/ml
13) pyrene	11.210	5076986	50.038 µg/ml
14) benzo(a)anthracene	12.773	5010585	51.829 µg/mlm
15) chrysene	12.822	4818393	49.500 µg/mlm
16) benzo(B)fluoranthene	14.070	5126155	51.778 µg/mlm
17) benzo(k)fluoranthene	14.102	4808431	50.882 µg/mlm
18) benzo(a)pyrene	14.405	4486318	48.535 µg/ml
19) indeno(1,2,3-cd)pyrene	15.543	4825283	50.976 µg/ml
20) dibenzo(ah)anthracene	15.588	4714989	51.587 µg/ml
21) benzo(ghi)perylene	15.768	4765990	51.735 µg/ml
25) h c-9	2.680	3669865	49.679 µg/mlm
26) h c-10	3.833	3682081	49.844 µg/ml
27) naphthalene #2	5.515	4035939	50.530 µg/ml
28) c-12	5.688	3625160	49.073 µg/ml
29) 2-methylnaphthalene #2	6.408	3954192	49.080 µg/ml
30) c-14	7.205	3605226	48.804 µg/ml
31) c-16	8.535	3538485	47.900 µg/ml
32) c-18	9.730	3494684	47.307 µg/ml
33) c-19	10.285	3424371	51.258 µg/ml
34) c-20	10.817	3390870	50.757 µg/ml
36) c-22	11.812	3335369	49.926 µg/ml
37) c-24	12.730	3275936	49.036 µg/ml
38) c-26	13.582	3251556	48.671 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.375	3204302	47.964	µg/ml
40) h	c-30	15.122	3143578	47.055	µg/ml
41) h	c-36	17.010	2933493	43.910	µg/mlm

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

9.5.8

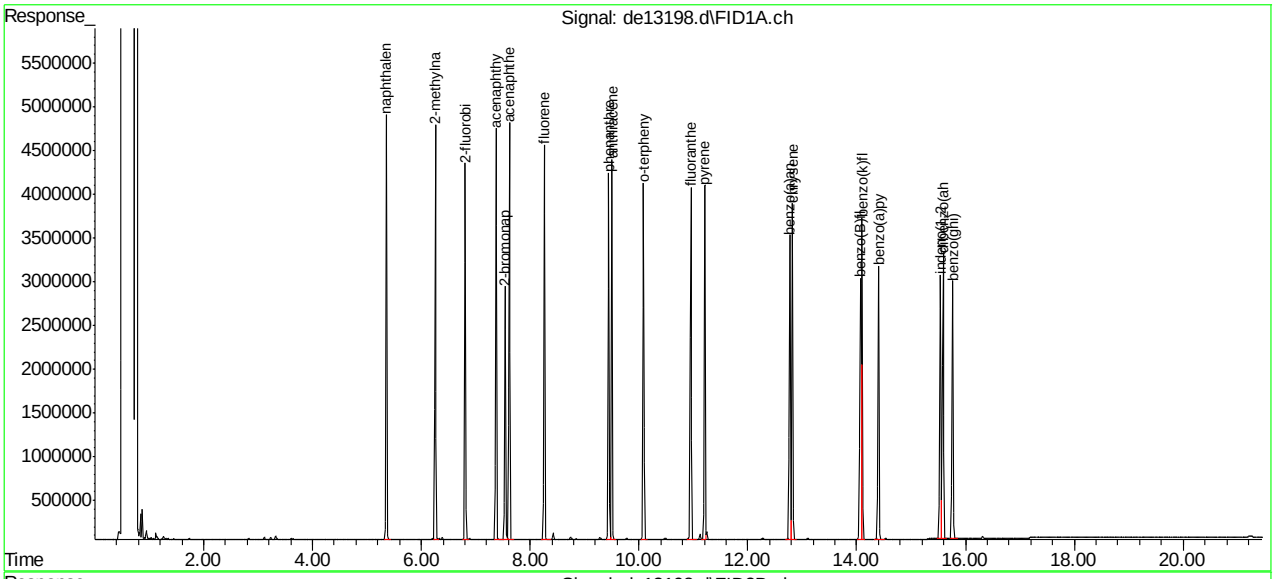
9

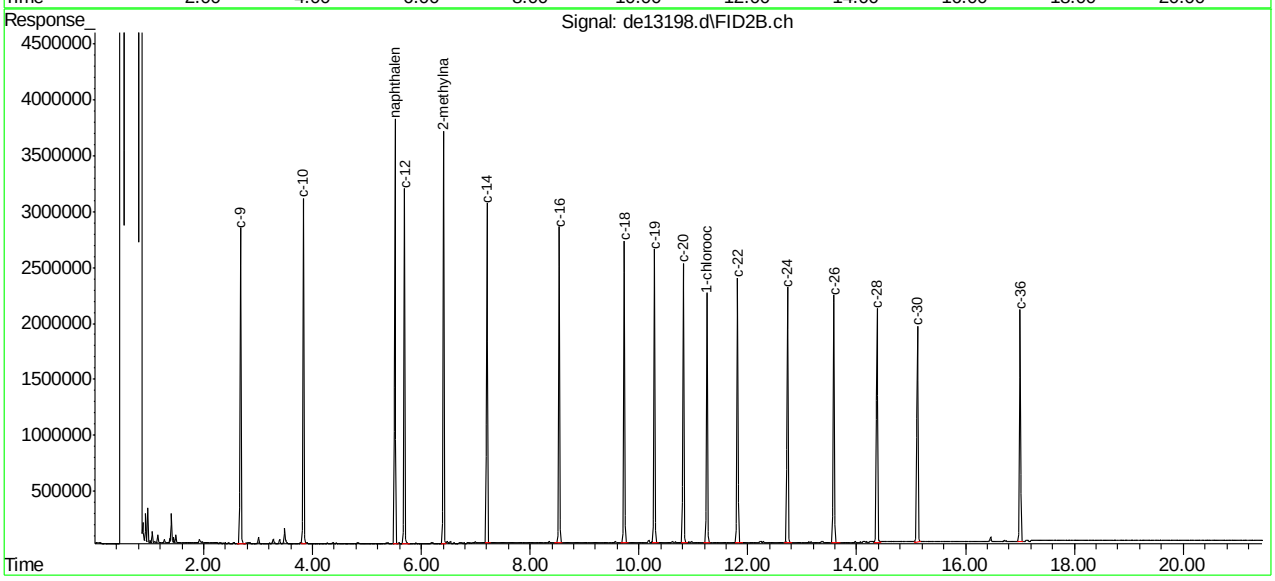
Quantitation Report (QT Reviewed)

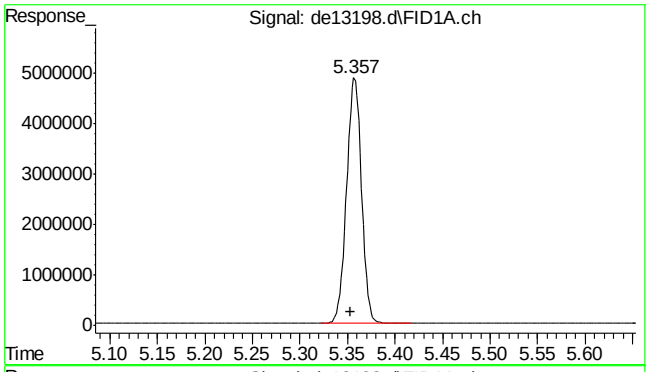
Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46167,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:53:41 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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

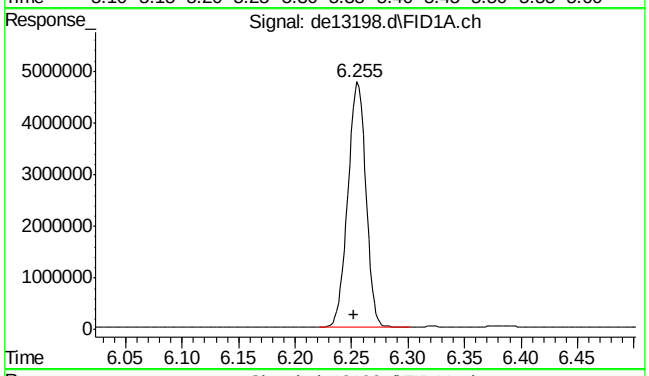






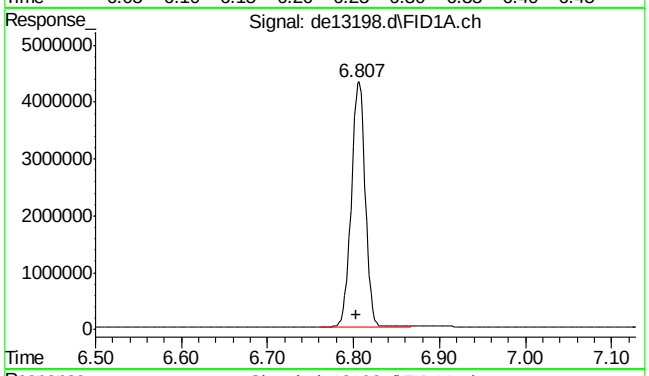
#2 naphthalene

R.T.: 5.357 min
Delta R.T.: 0.004 min
Response: 5321324
Conc: 51.59 µg/ml



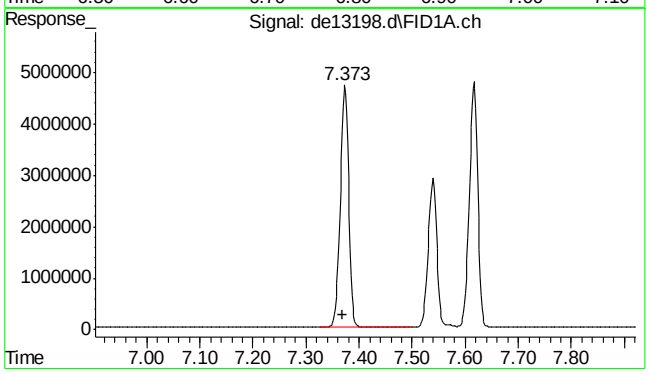
#3 2-methylnaphthalene

R.T.: 6.255 min
Delta R.T.: 0.003 min
Response: 5225758
Conc: 50.99 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.807 min
Delta R.T.: 0.004 min
Response: 4785763
Conc: 51.89 µg/ml



#5 acenaphthylene

R.T.: 7.373 min
Delta R.T.: 0.003 min
Response: 5189401
Conc: 51.58 µg/ml

9.5.8

9

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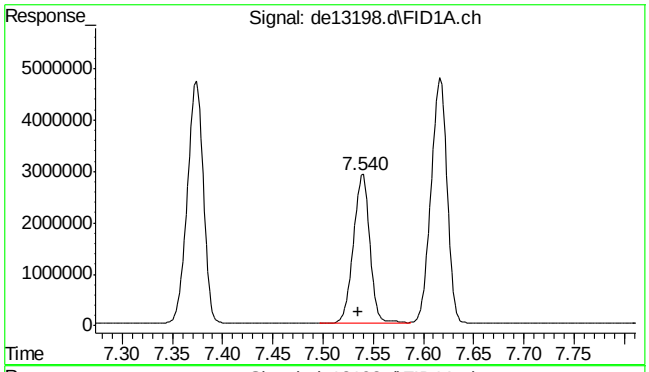
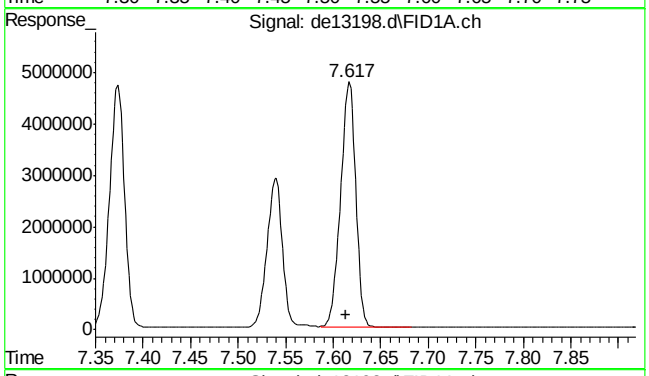


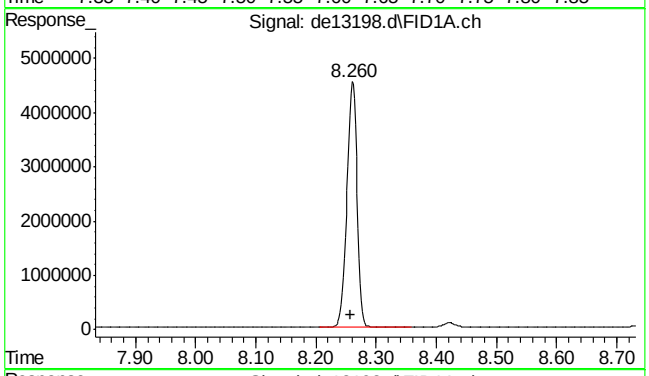
#6 2-bromonaphthalene

R.T.: 7.540 min
Delta R.T.: 0.005 min
Response: 3261205
Conc: 51.97 µg/ml



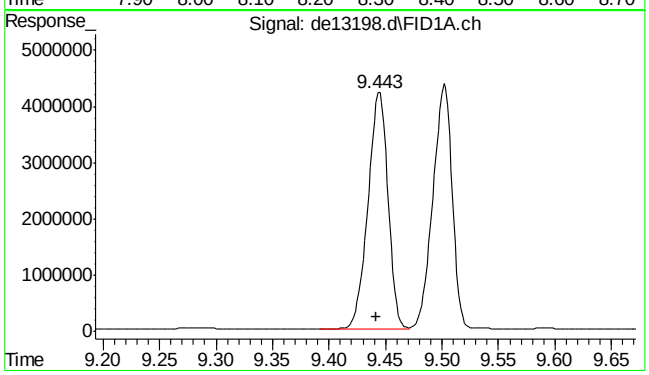
#7 acenaphthene

R.T.: 7.617 min
Delta R.T.: 0.004 min
Response: 5299977
Conc: 51.27 µg/ml



#8 fluorene

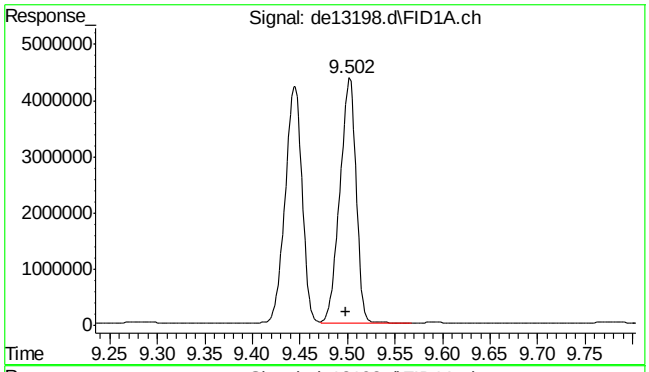
R.T.: 8.260 min
Delta R.T.: 0.003 min
Response: 5216935
Conc: 51.36 µg/ml



#9 phenanthrene

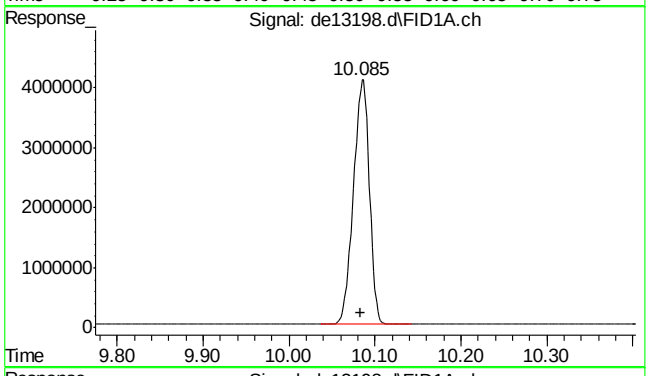
R.T.: 9.443 min
Delta R.T.: 0.001 min
Response: 5176102
Conc: 50.86 µg/ml

SGS ACCUTEST MC45580



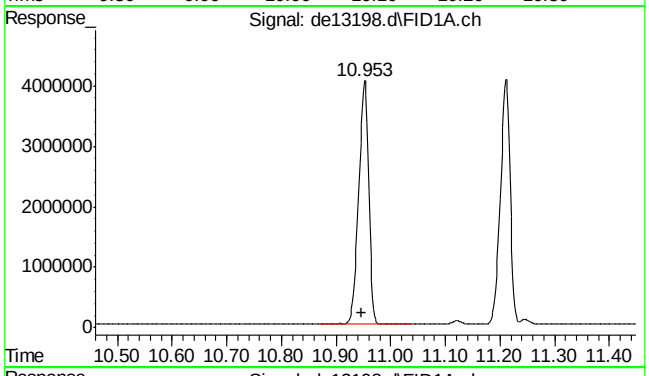
#10 anthracene

R.T.: 9.502 min
Delta R.T.: 0.004 min
Response: 5163442
Conc: 53.23 µg/ml



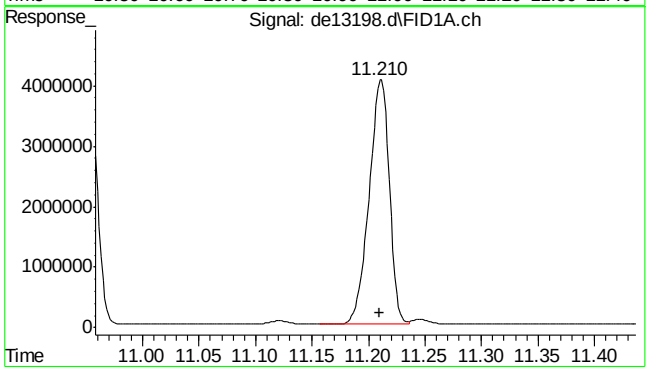
#11 o-terphenyl

R.T.: 10.085 min
Delta R.T.: 0.002 min
Response: 5227790
Conc: 51.04 µg/ml



#12 fluoranthene

R.T.: 10.953 min
Delta R.T.: 0.005 min
Response: 5147188
Conc: 51.50 µg/ml



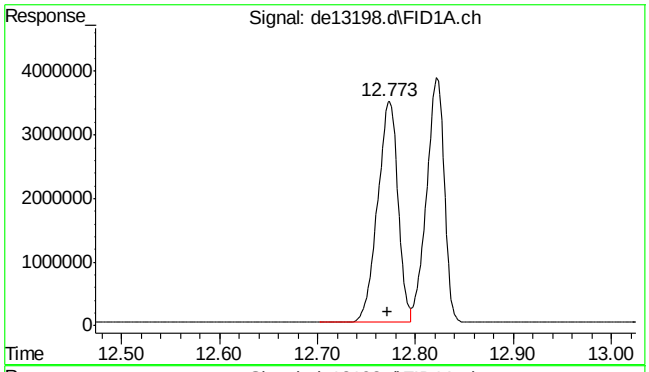
#13 pyrene

R.T.: 11.210 min
Delta R.T.: 0.000 min
Response: 5076986
Conc: 50.04 µg/ml

9.5.8

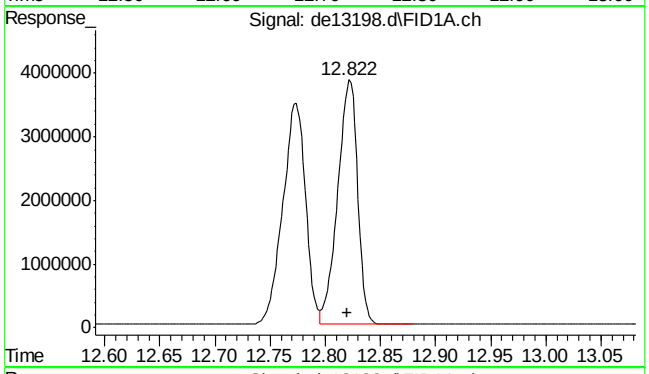
9

SGS ACCUTEST MC45580



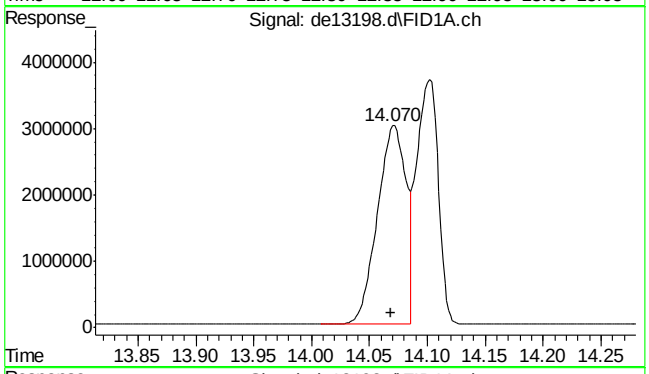
#14 benzo(a)anthracene

R.T.: 12.773 min
Delta R.T.: 0.001 min
Response: 5010585
Conc: 51.83 µg/ml m



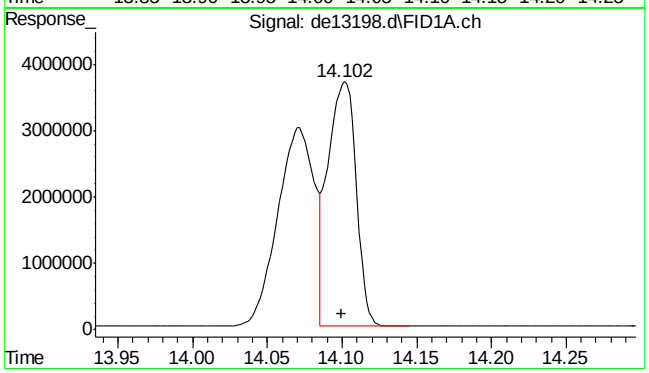
#15 chrysene

R.T.: 12.822 min
Delta R.T.: 0.002 min
Response: 4818393
Conc: 49.50 µg/ml m



#16 benzo(B)fluoranthene

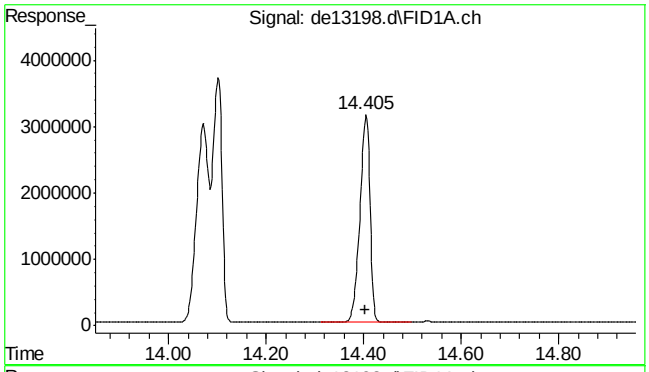
R.T.: 14.070 min
Delta R.T.: 0.002 min
Response: 5126155
Conc: 51.78 µg/ml m



#17 benzo(k)fluoranthene

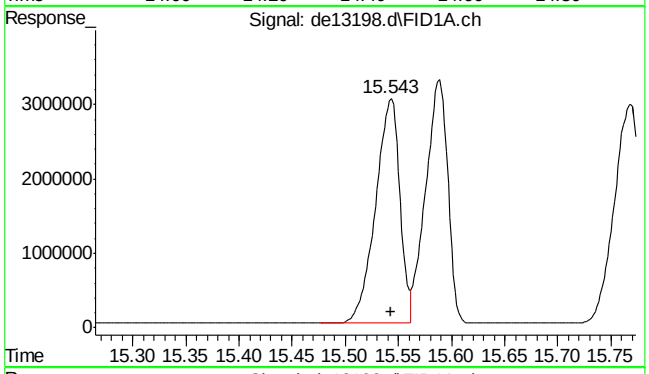
R.T.: 14.102 min
Delta R.T.: 0.002 min
Response: 4808431
Conc: 50.88 µg/ml m

SGS ACCUTEST MC45580



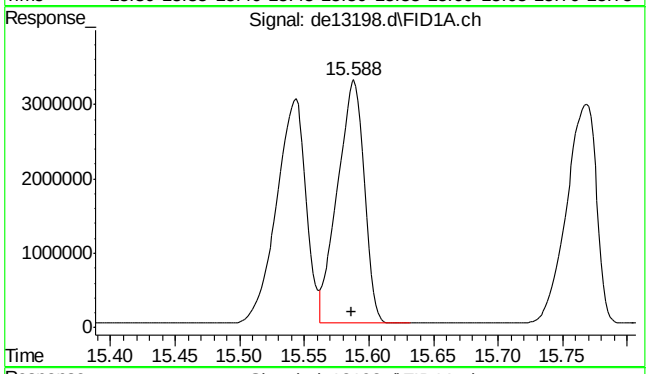
#18 benzo(a)pyrene

R.T.: 14.405 min
Delta R.T.: 0.003 min
Response: 4486318
Conc: 48.53 µg/ml



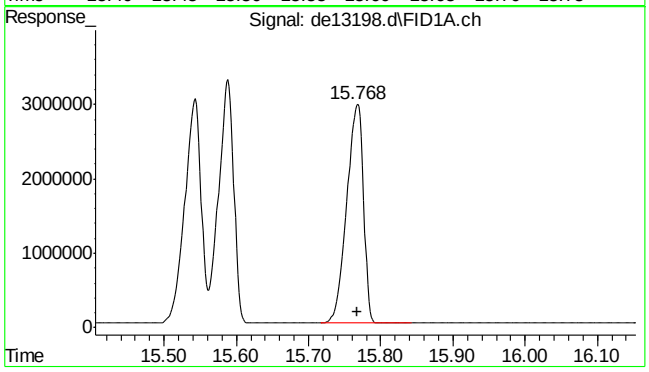
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.543 min
Delta R.T.: 0.000 min
Response: 4825283
Conc: 50.98 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.588 min
Delta R.T.: 0.001 min
Response: 4714989
Conc: 51.59 µg/ml



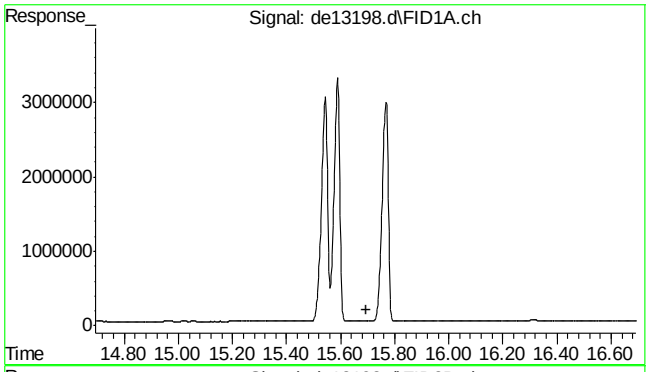
#21 benzo(ghi)perylene

R.T.: 15.768 min
Delta R.T.: 0.001 min
Response: 4765990
Conc: 51.73 µg/ml

9.5.8

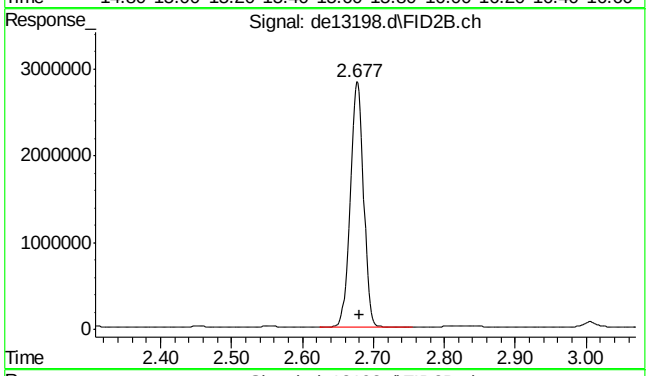
9

SGS ACCUTEST MC45580



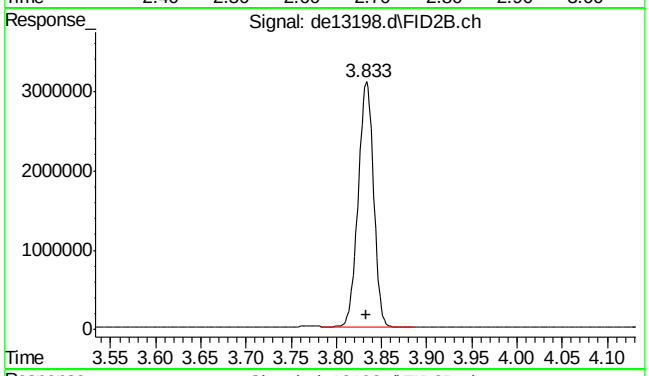
#22 bht

R.T.: 0.000 min
Exp R.T. : 15.693 min
Response: 0
Conc: N.D.



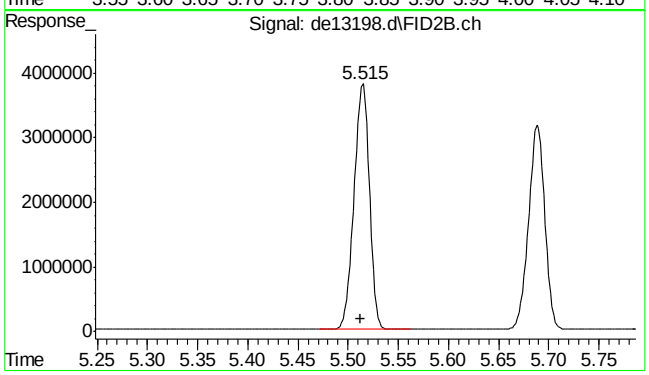
#25 c-9

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



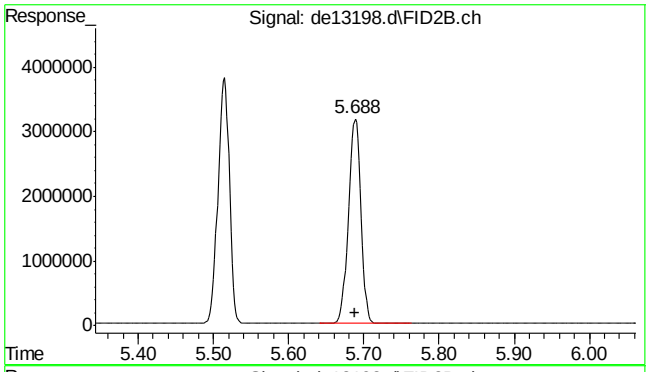
#27 naphthalene #2

R.T.: 5.515 min
Delta R.T.: 0.002 min
Response: 4035939
Conc: 50.53 µg/ml

9.5.8

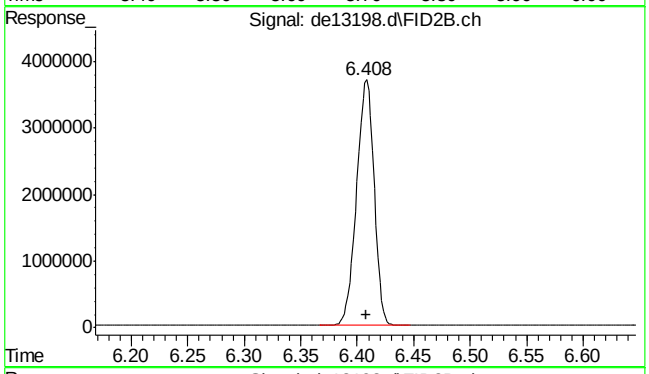
9

SGS ACCUTEST MC45580



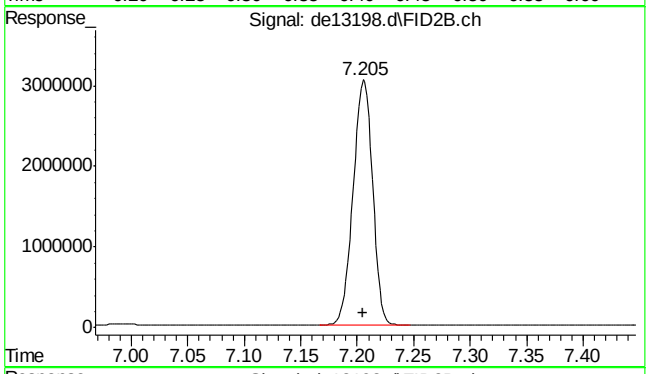
#28 c-12

R.T.: 5.688 min
Delta R.T.: 0.000 min
Response: 3625160
Conc: 49.07 µg/ml



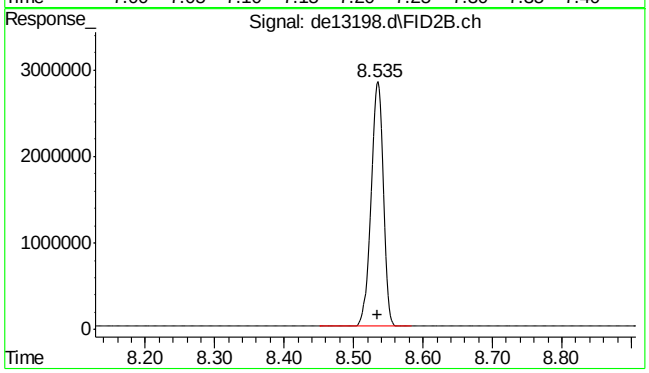
#29 2-methylnaphthalene #2

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



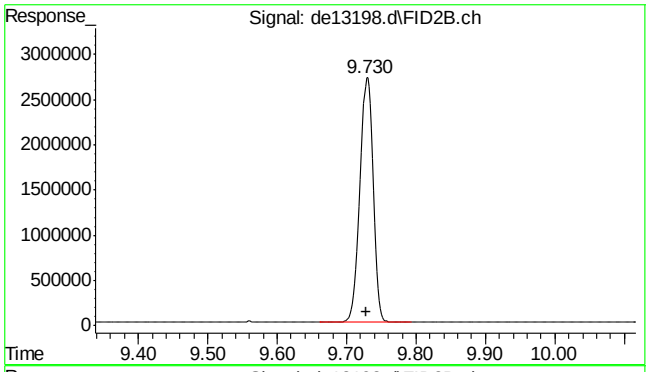
#31 c-16

R.T.: 8.535 min
Delta R.T.: 0.000 min
Response: 3538485
Conc: 47.90 µg/ml

9.5.8

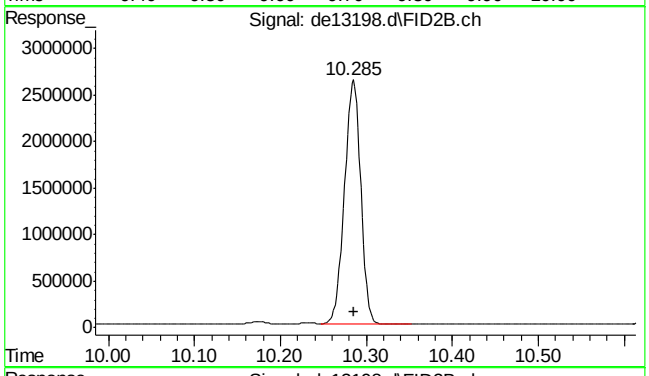
9

SGS ACCUTEST MC45580



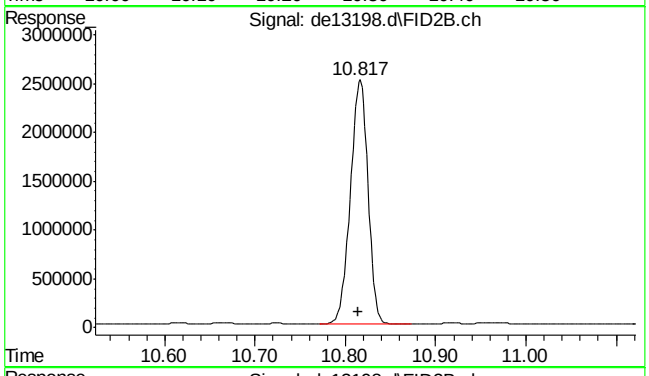
#32 c-18

R.T.: 9.730 min
Delta R.T.: 0.002 min
Response: 3494684
Conc: 47.31 µg/ml



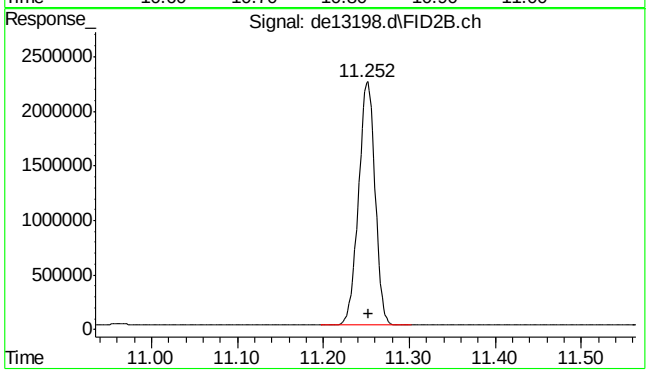
#33 c-19

R.T.: 10.285 min
Delta R.T.: 0.000 min
Response: 3424371
Conc: 51.26 µg/ml



#34 c-20

R.T.: 10.817 min
Delta R.T.: 0.002 min
Response: 3390870
Conc: 50.76 µg/ml



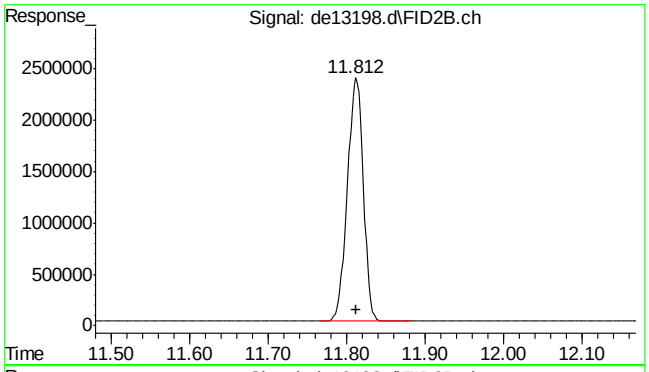
#35 1-chlorooctadecane

R.T.: 11.252 min
Delta R.T.: 0.000 min
Response: 2968966
Conc: 52.48 µg/ml

9.5.8

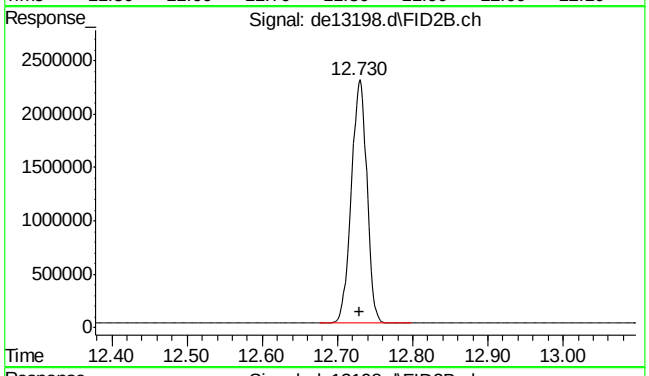
9

SGS ACCUTEST MC45580



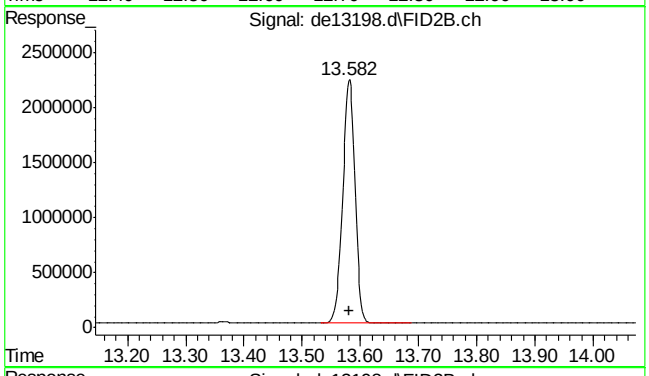
#36 c-22

R.T.: 11.812 min
Delta R.T.: 0.000 min
Response: 3335369
Conc: 49.93 µg/ml



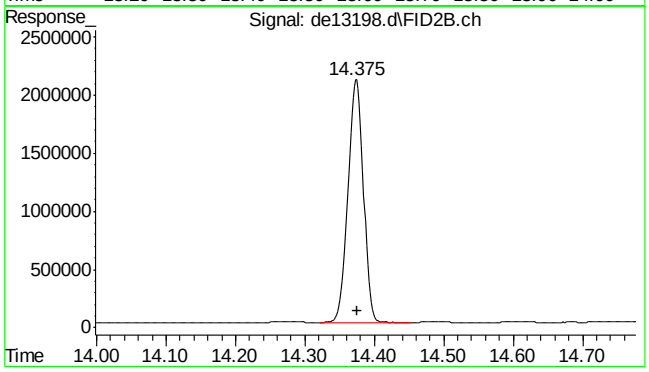
#37 c-24

R.T.: 12.730 min
Delta R.T.: 0.000 min
Response: 3275936
Conc: 49.04 µg/ml



#38 c-26

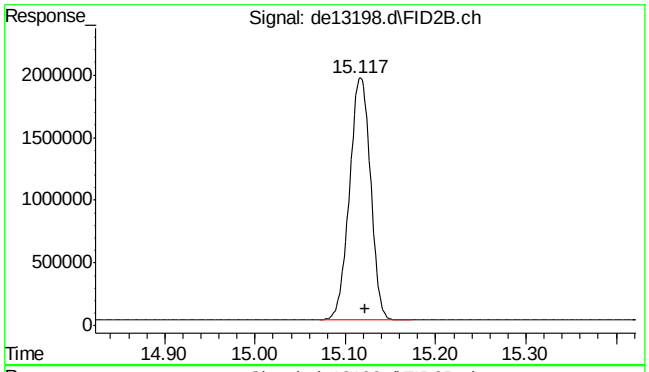
R.T.: 13.582 min
Delta R.T.: 0.000 min
Response: 3251556
Conc: 48.67 µg/ml



#39 c-28

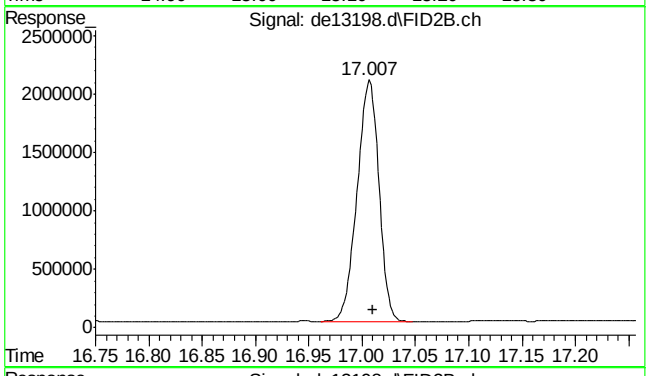
R.T.: 14.375 min
Delta R.T.: 0.000 min
Response: 3204302
Conc: 47.96 µg/ml

SGS ACCUTEST MC45580



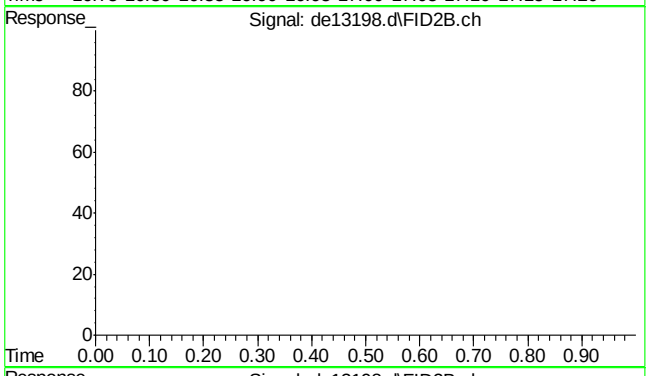
#40 c-30

R.T.: 15.122 min
Delta R.T.: 0.000 min
Response: 3143578
Conc: 47.06 µg/ml



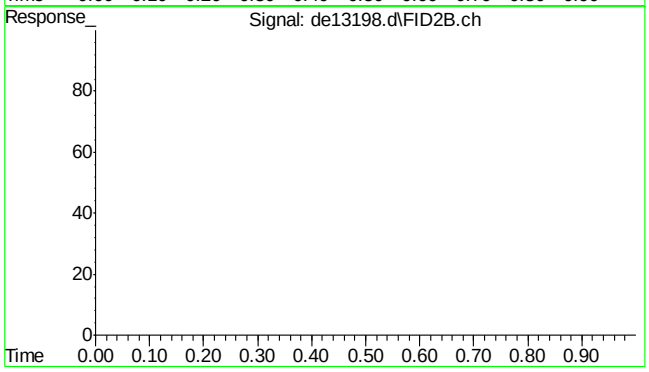
#41 c-36

R.T.: 17.010 min
Delta R.T.: 0.000 min
Response: 2933493
Conc: 43.91 µg/ml m



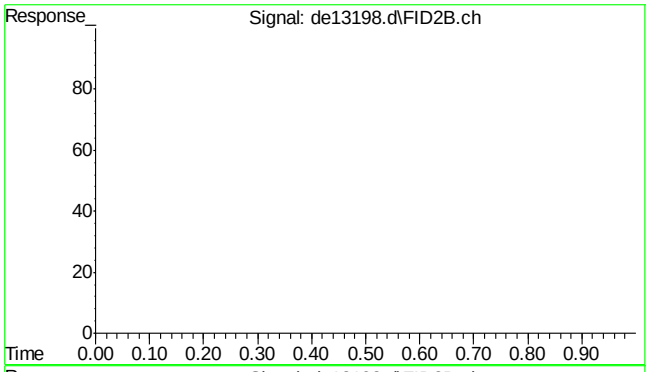
#42 bht

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



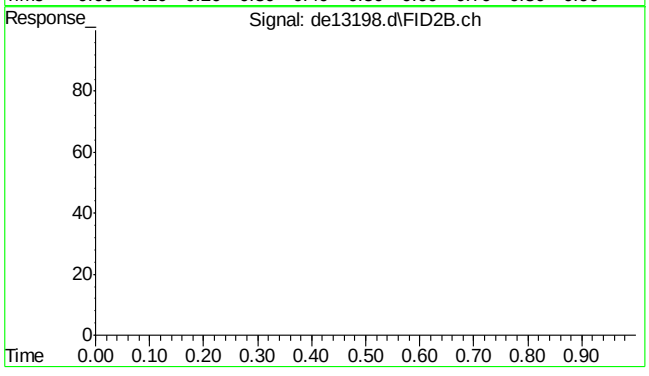
#43 bht

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



#44 bht

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



#45 bht

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

9.5.8

9

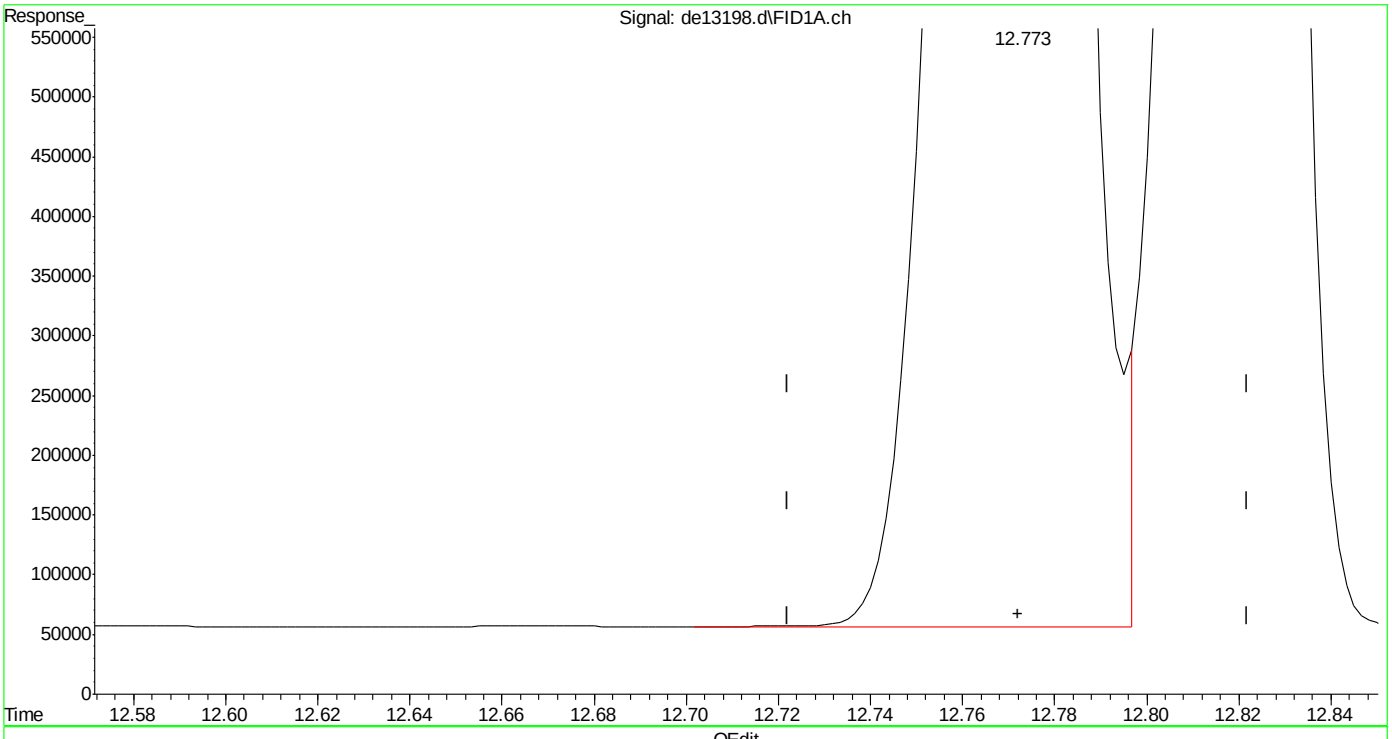
SGS ACCUTEST MC45580

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

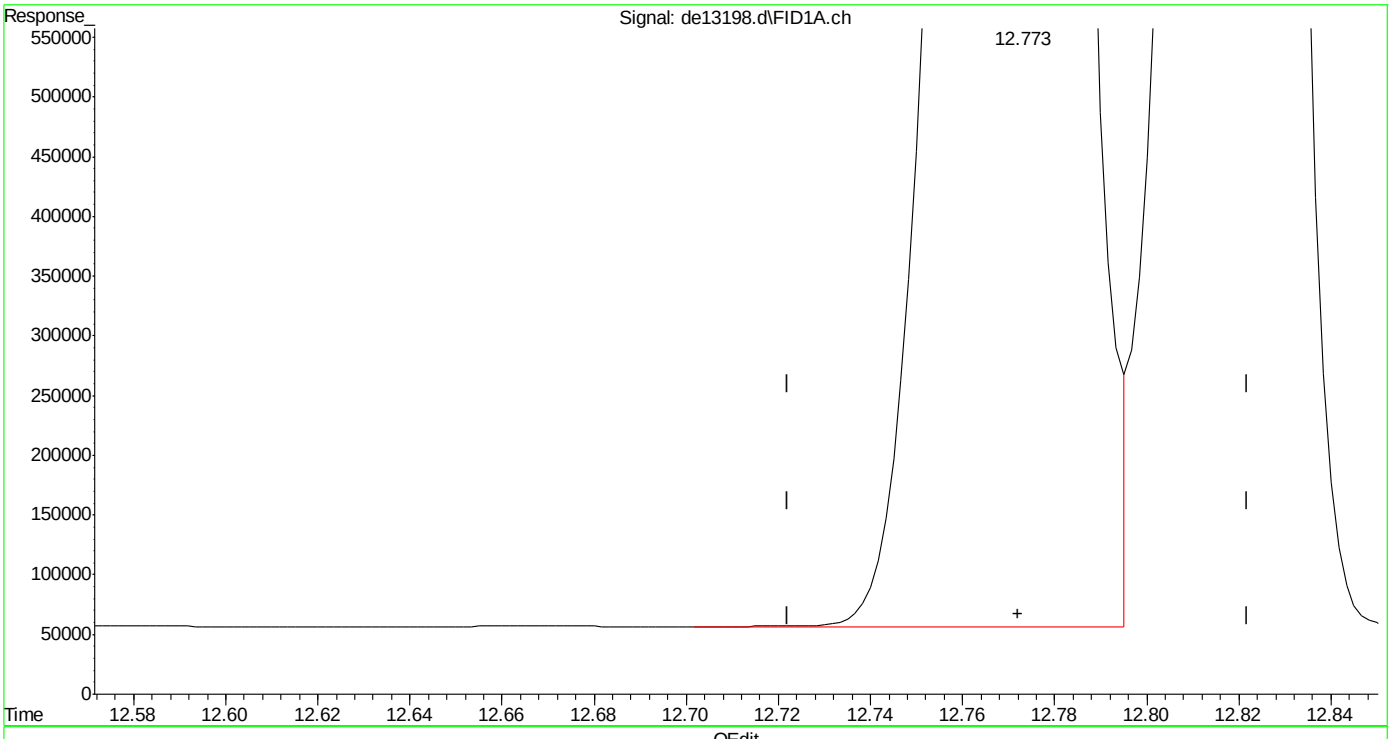
(+) = Expected Retention Time

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

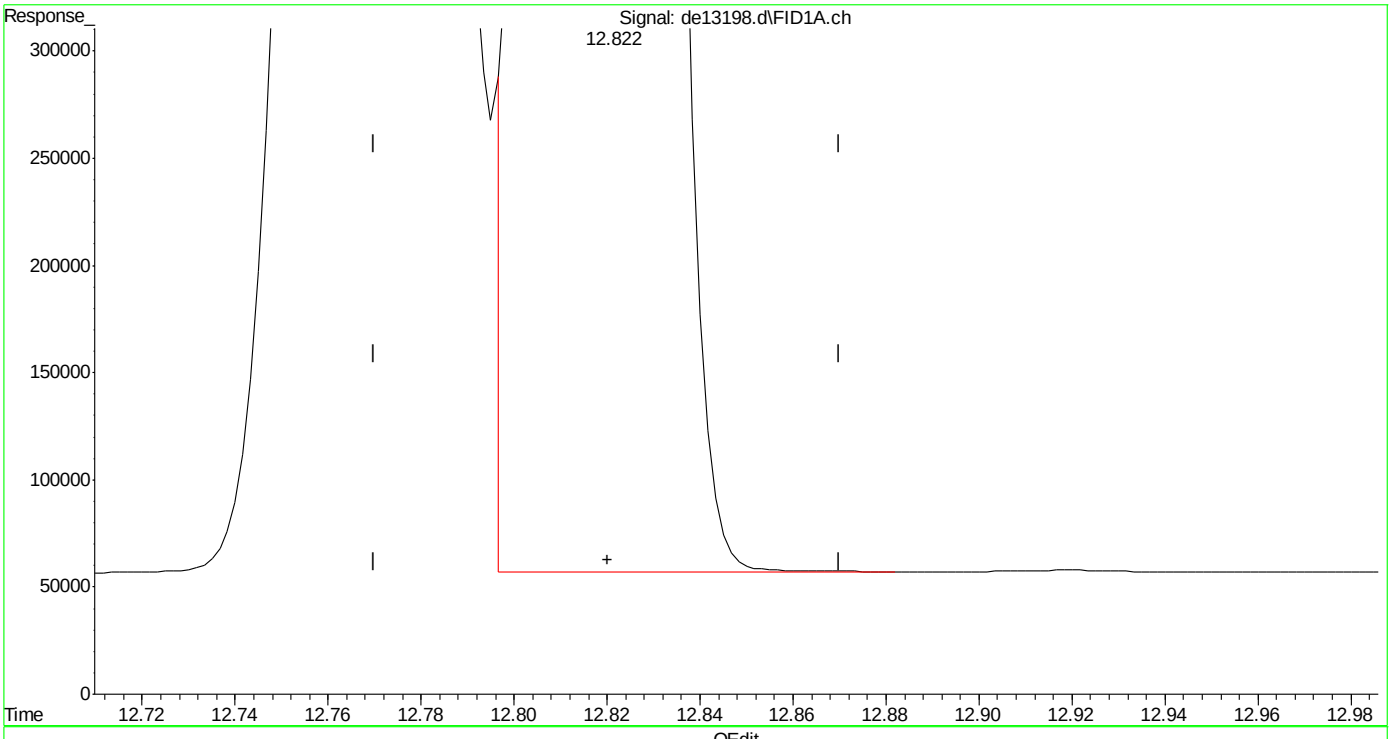
SGS ACCUTEST MC45580

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

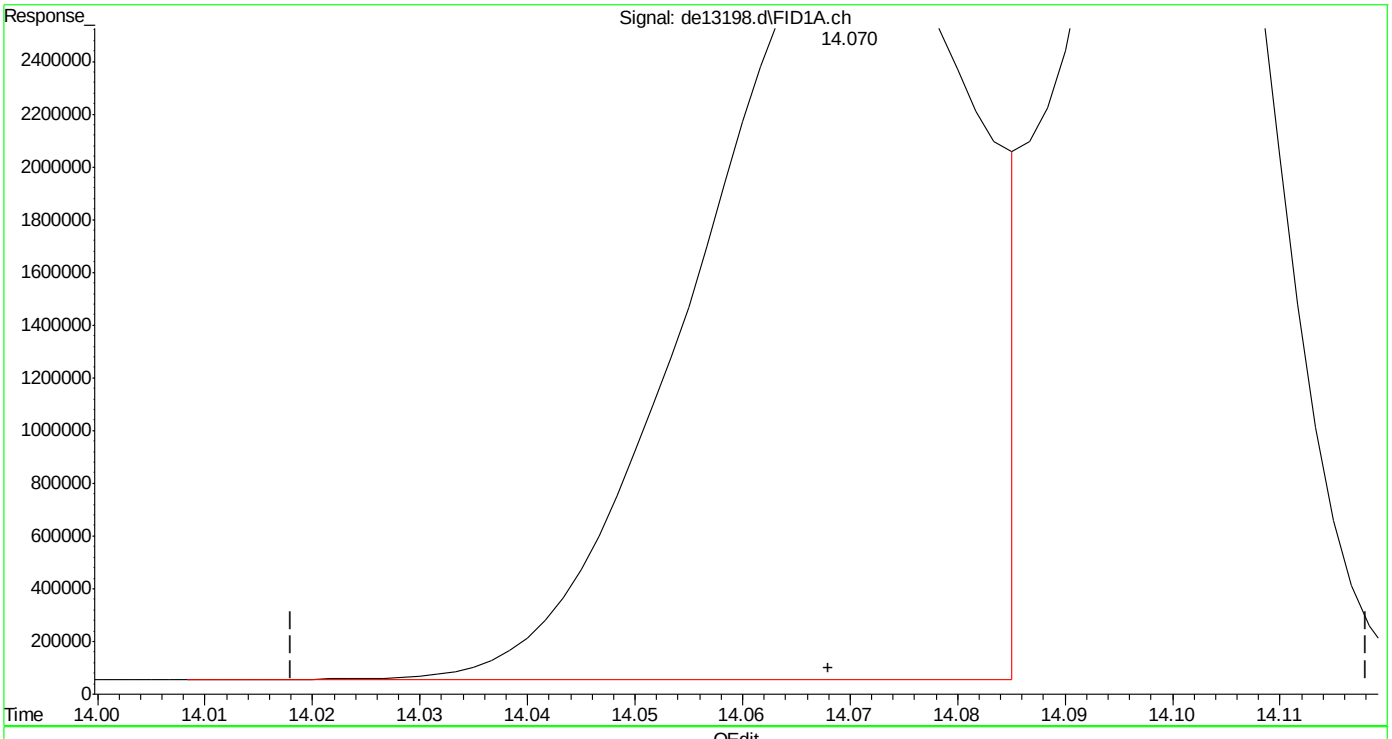
(+) = Expected Retention Time
EPH160204W.M Fri Feb 05 11:46:32 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(16) benzo(B)fluoranthene
14.070min 51.778 µg/ml m
response 5126155

(+) = Expected Retention Time

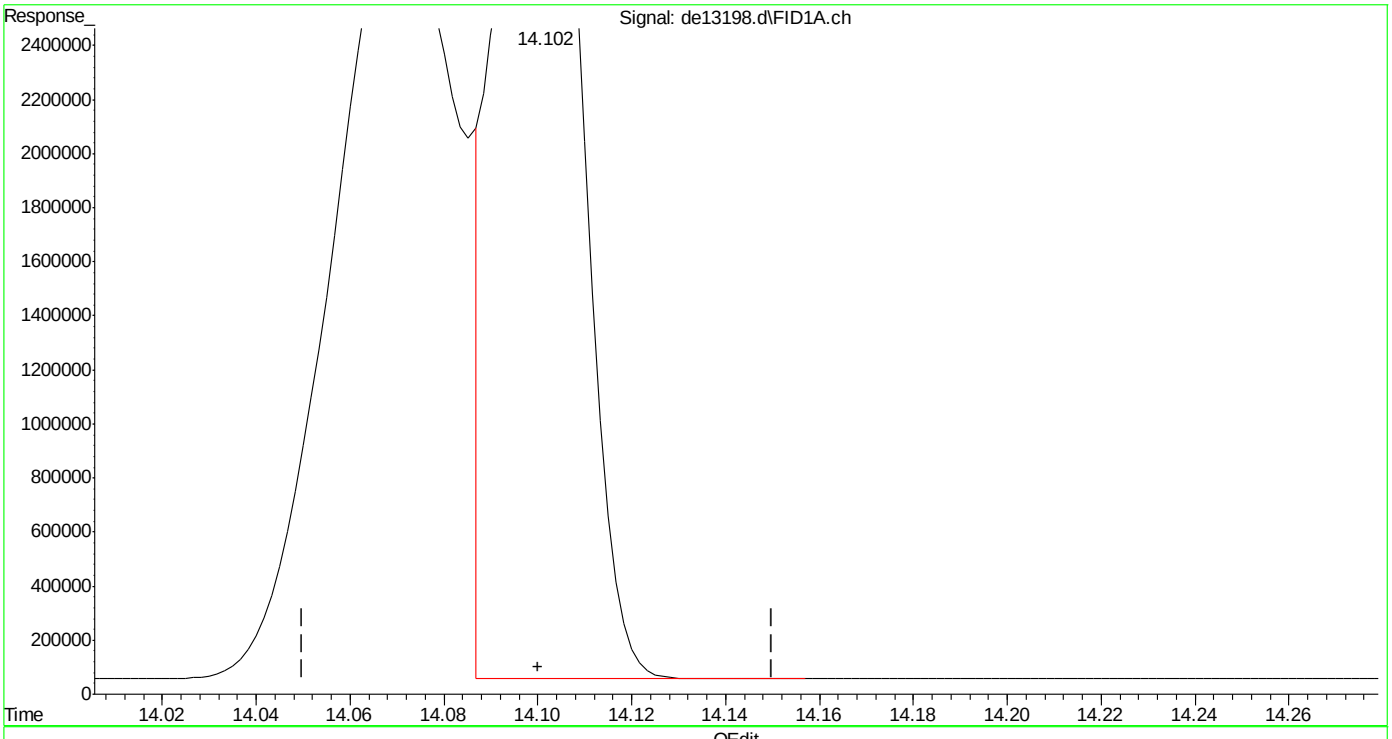
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.102min 48.745 µg/ml
response 4606556

(+) = Expected Retention Time

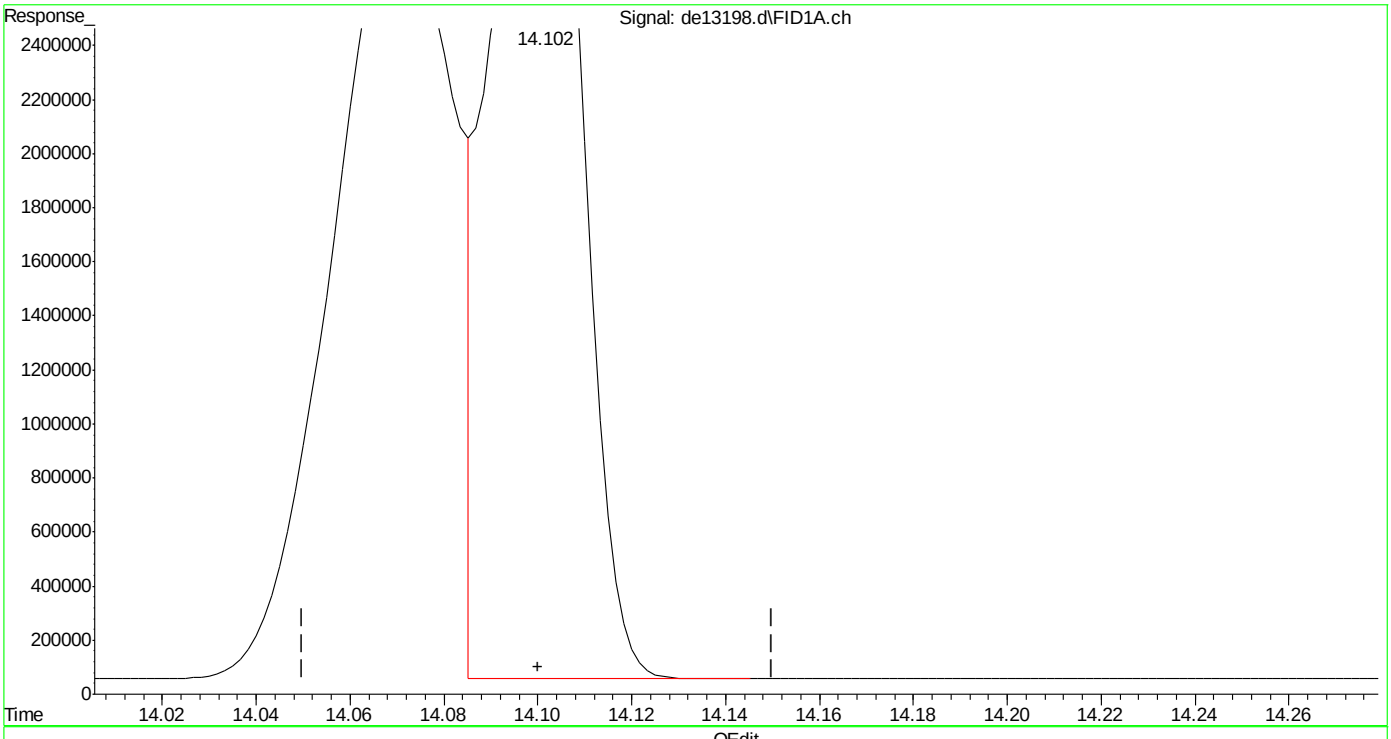
SGS ACCUTEST MC45580

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160204\
Data File : de13198.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 4 Feb 2016 7:21 pm
Operator : thomasa
Sample : icv735-50
Misc : op46227,gde735,1000,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Feb 05 11:46:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160204W.M
Quant Title : BMAEPH-working method
QLast Update : Fri Feb 05 11:44:43 2016
Response via : Initial Calibration
Integrator: RTE

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



(17) benzo(k)fluoranthene
14.102min 50.882 µg/ml m
response 4808431

(+) = Expected Retention Time

SGS ACCUTEST MC45580

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.682	5565862	60.348 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 301.74%#
6) s	2-bromonaphthalene	7.415	3694719	58.875 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 294.38%#
11) s	o-terphenyl	9.958	5907757	57.678 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 288.39%#
35) s	1-chlorooctadecane	11.228	3046717	53.853 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 269.26%#
	Target Compounds			
2)	naphthalene	5.230	6307975	61.159 µg/ml
3)	2-methylnaphthalene	6.132	6157374	60.082 µg/ml
5)	acenaphthylene	7.248	5992766	59.569 µg/ml
7)	acenaphthene	7.490	6171873	59.703 µg/ml
8)	fluorene	8.137	5998230	59.057 µg/ml
9)	phenanthrene	9.322	5883155	57.812 µg/ml
10)	anthracene	9.380	5641252	58.152 µg/ml
12)	fluoranthene	10.830	5680905	56.843 µg/ml
13)	pyrene	11.090	5824056	57.401 µg/ml
14)	benzo(a)anthracene	12.657	5425828	56.124 µg/ml
15)	chrysene	12.705	5493596	56.437 µg/ml
16)	benzo(B)fluoranthene	13.962	5404089	54.585 µg/ml
17)	benzo(k)fluoranthene	13.990	5614754	59.414 µg/ml
18)	benzo(a)pyrene	14.297	5267736	56.988 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.443	5583300	58.984 µg/ml
20)	dibenzo(ah)anthracene	15.482	5037996	55.121 µg/ml
21)	benzo(ghi)perylene	15.668	5250455	56.994 µg/ml
25) h	c-9	2.648	3875901	52.468 µg/mlm
26) h	c-10	3.815	3933101	53.242 µg/ml
27)	naphthalene #2	5.492	4196627	52.542 µg/ml
28)	c-12	5.668	3908589	52.910 µg/ml
29)	2-methylnaphthalene #2	6.385	4193018	52.044 µg/ml
30)	c-14	7.185	3885134	52.593 µg/ml
31)	c-16	8.515	3852336	52.149 µg/ml
32)	c-18	9.708	3851067	52.132 µg/ml
33)	c-19	10.263	3829277	57.319 µg/ml
34)	c-20	10.793	3761422	56.303 µg/ml
36)	c-22	11.790	3745507	56.065 µg/ml
37)	c-24	12.707	3509682	52.535 µg/ml
38)	c-26	13.558	3734303	55.897 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	3608439	54.013	µg/ml
40) h	c-30	15.098	3606146	53.979	µg/ml
41) h	c-36	17.008	3005570	44.989	µg/mlm

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

9.5.9

9

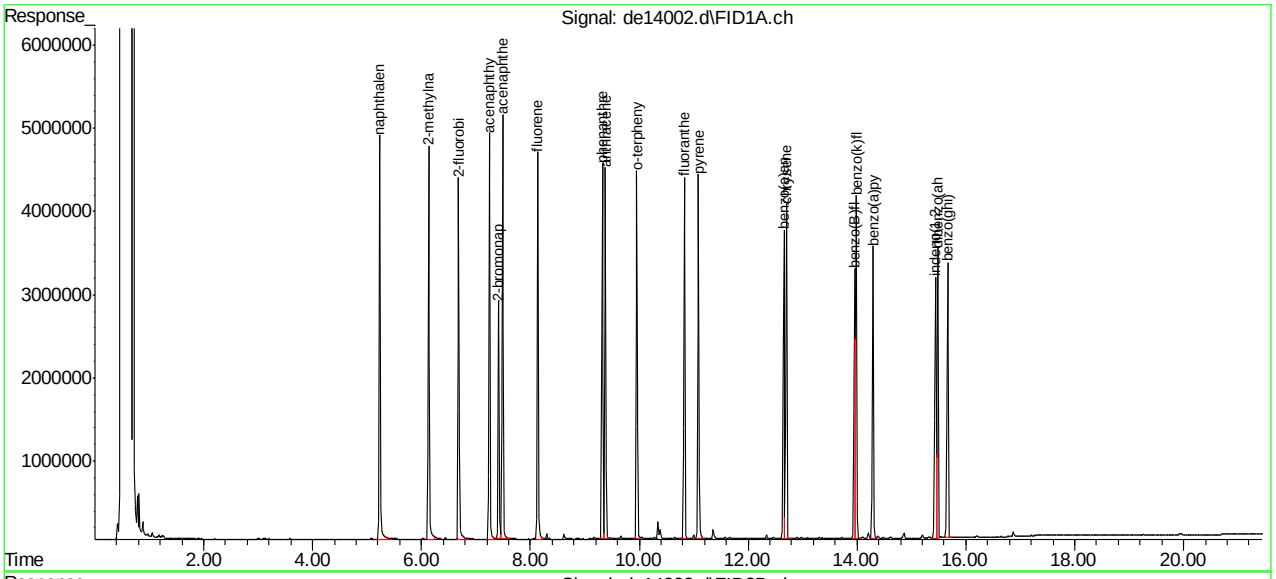
SGS ACCUTEST MC45580

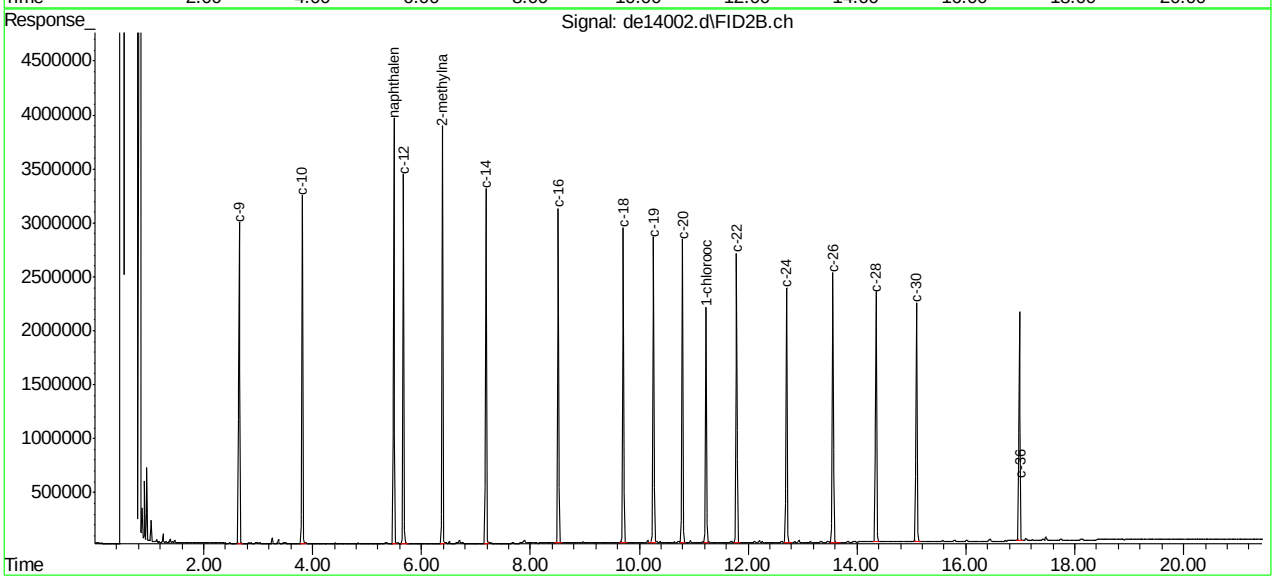
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14002.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 11:43 am
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

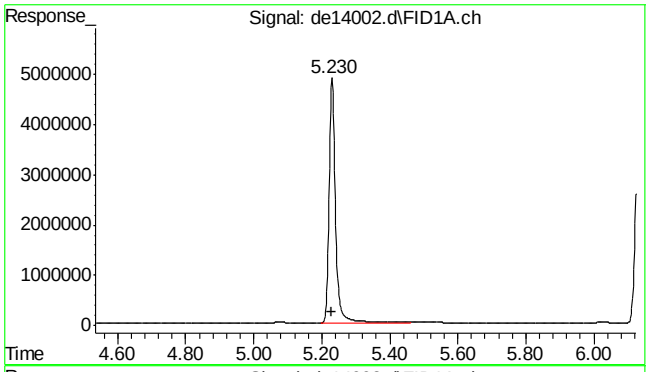
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 12:13:05 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



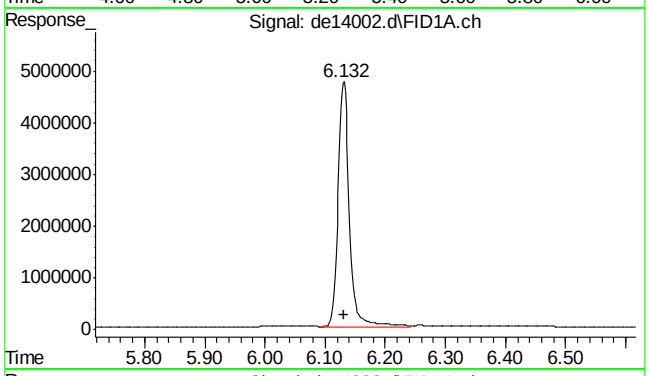


SGS ACCUTEST MC45580



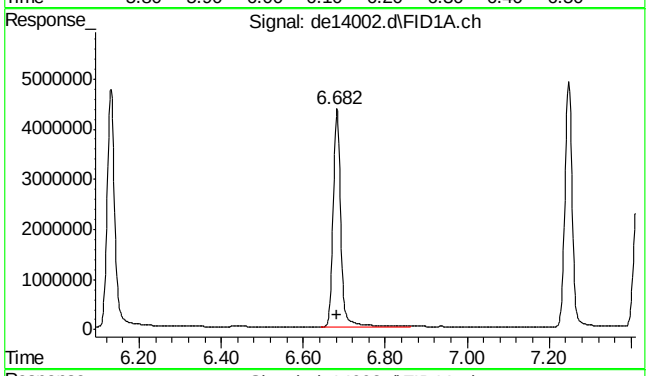
#2 naphthalene

R.T.: 5.230 min
Delta R.T.: 0.000 min
Response: 6307975
Conc: 61.16 µg/ml



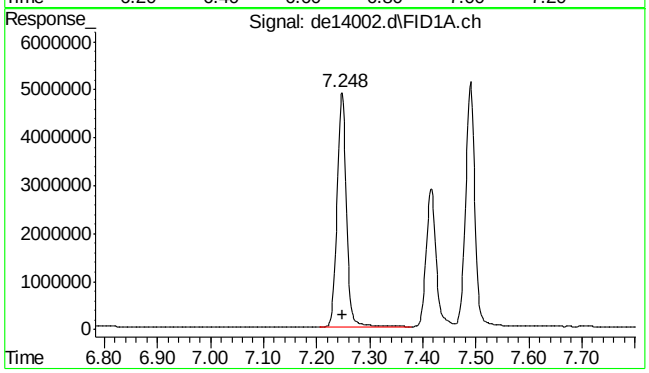
#3 2-methylnaphthalene

R.T.: 6.132 min
Delta R.T.: 0.000 min
Response: 6157374
Conc: 60.08 µg/ml



#4 2-fluorobiphenyl

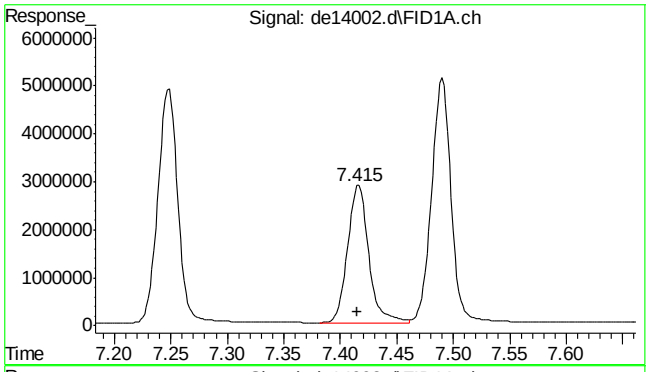
R.T.: 6.682 min
Delta R.T.: 0.000 min
Response: 5565862
Conc: 60.35 µg/ml



#5 acenaphthylene

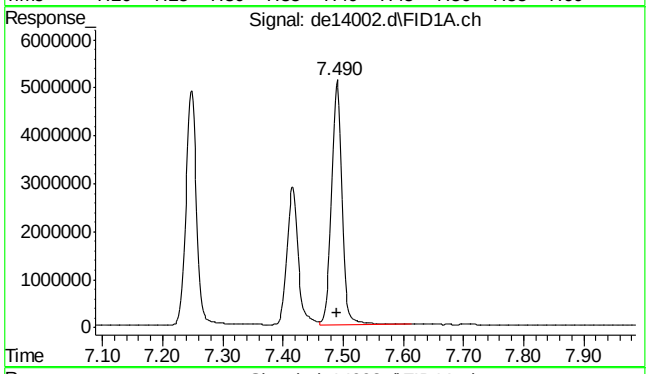
R.T.: 7.248 min
Delta R.T.: 0.000 min
Response: 5992766
Conc: 59.57 µg/ml

SGS ACCUTEST MC45580



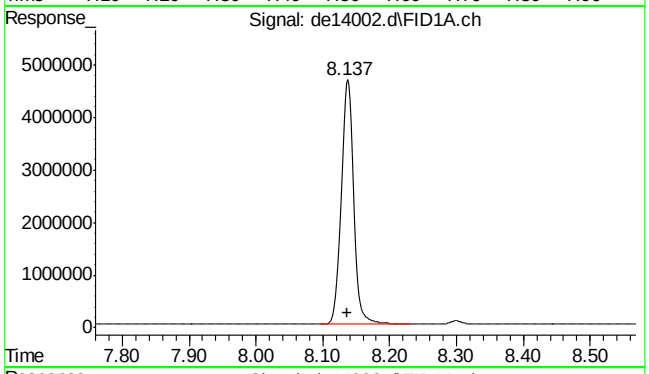
#6 2-bromonaphthalene

R.T.: 7.415 min
Delta R.T.: 0.000 min
Response: 3694719
Conc: 58.88 µg/ml



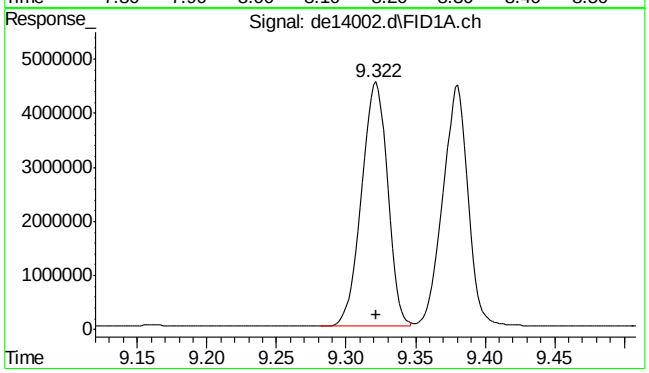
#7 acenaphthene

R.T.: 7.490 min
Delta R.T.: 0.000 min
Response: 6171873
Conc: 59.70 µg/ml



#8 fluorene

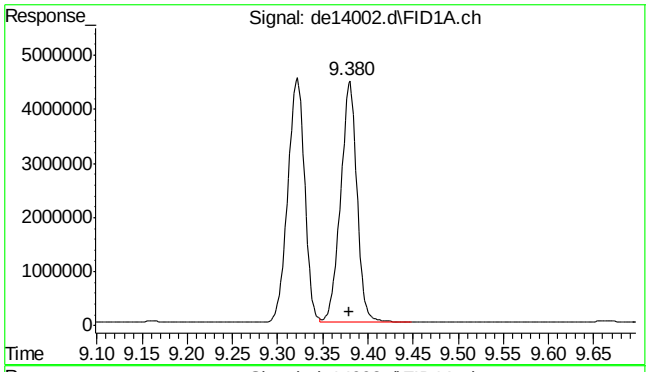
R.T.: 8.137 min
Delta R.T.: 0.000 min
Response: 5998230
Conc: 59.06 µg/ml



#9 phenanthrene

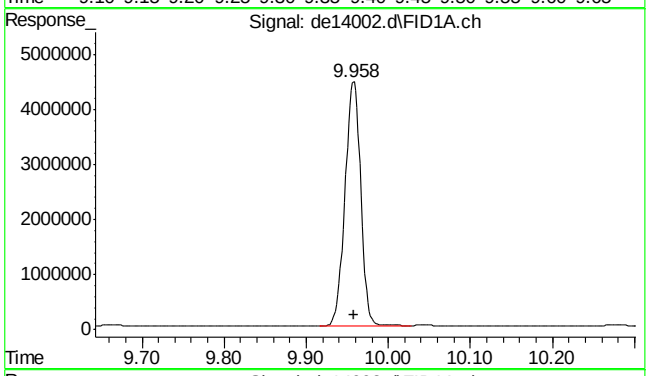
R.T.: 9.322 min
Delta R.T.: 0.000 min
Response: 5883155
Conc: 57.81 µg/ml

SGS ACCUTEST MC45580



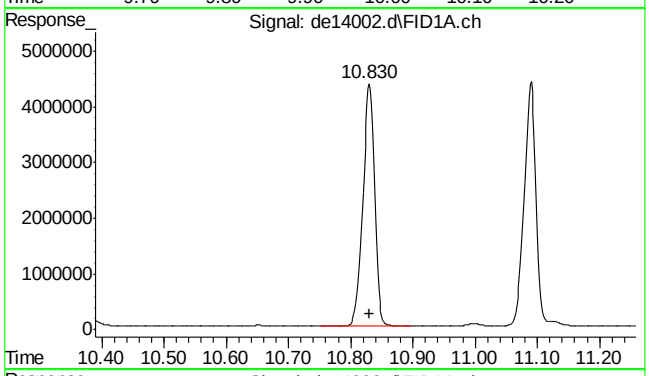
#10 anthracene

R.T.: 9.380 min
Delta R.T.: 0.000 min
Response: 5641252
Conc: 58.15 µg/ml



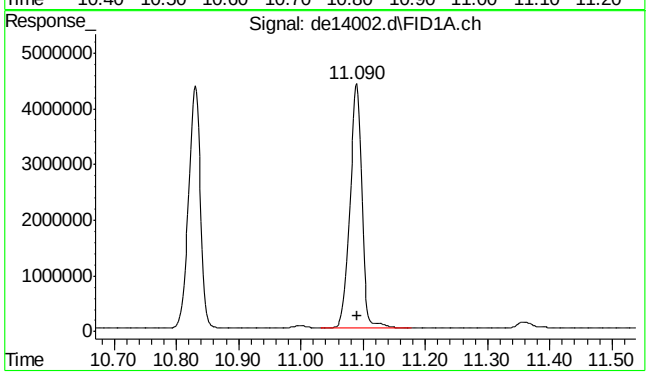
#11 o-terphenyl

R.T.: 9.958 min
Delta R.T.: 0.000 min
Response: 5907757
Conc: 57.68 µg/ml



#12 fluoranthene

R.T.: 10.830 min
Delta R.T.: 0.000 min
Response: 5680905
Conc: 56.84 µg/ml



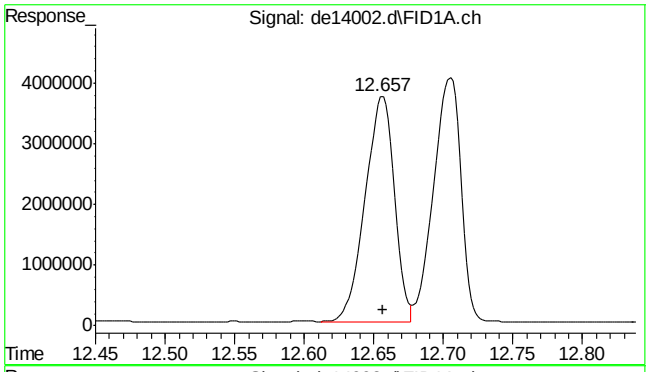
#13 pyrene

R.T.: 11.090 min
Delta R.T.: 0.000 min
Response: 5824056
Conc: 57.40 µg/ml

9.5.9

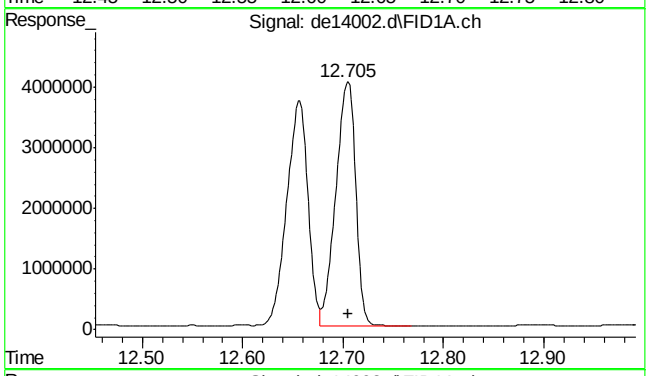
9

SGS ACCUTEST MC45580



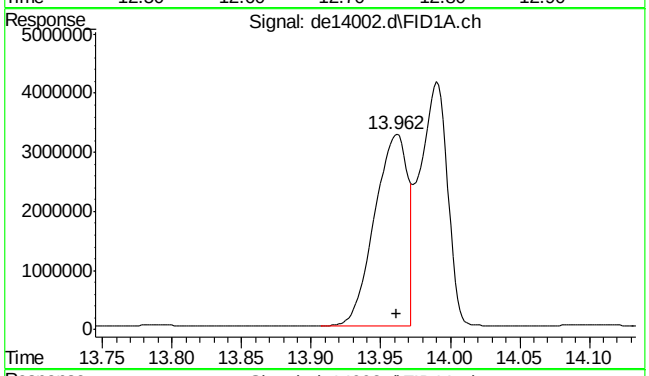
#14 benzo(a)anthracene

R.T.: 12.657 min
Delta R.T.: 0.000 min
Response: 5425828
Conc: 56.12 µg/ml



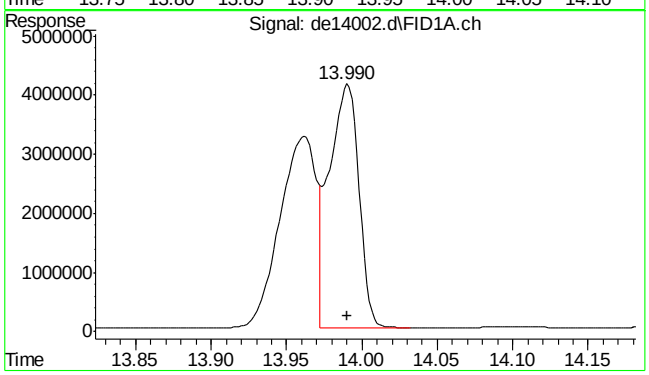
#15 chrysene

R.T.: 12.705 min
Delta R.T.: 0.000 min
Response: 5493596
Conc: 56.44 µg/ml



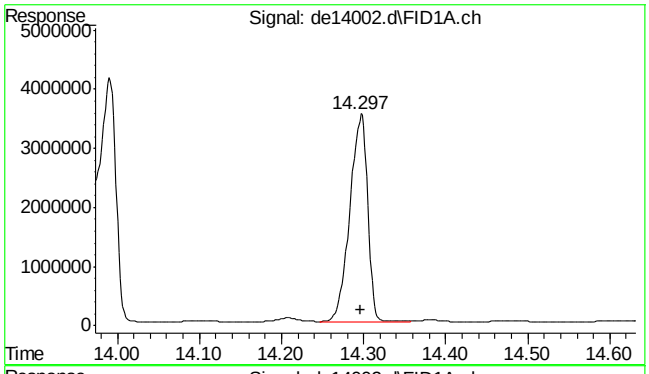
#16 benzo(B)fluoranthene

R.T.: 13.962 min
Delta R.T.: 0.000 min
Response: 5404089
Conc: 54.59 µg/ml



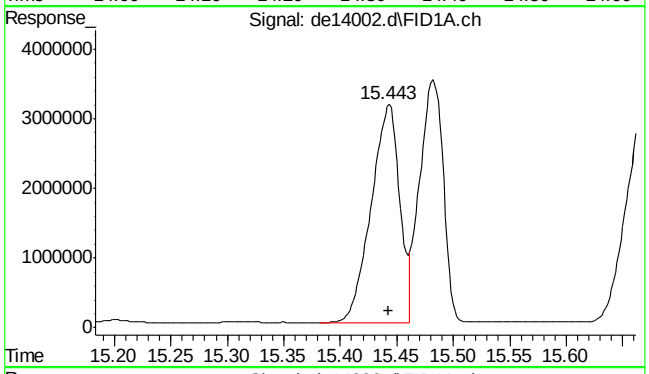
#17 benzo(k)fluoranthene

R.T.: 13.990 min
Delta R.T.: 0.000 min
Response: 5614754
Conc: 59.41 µg/ml



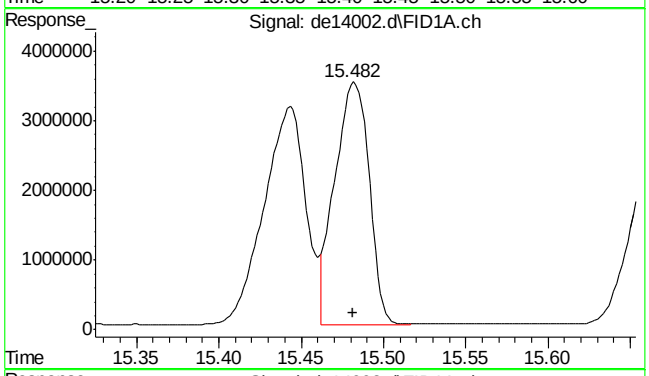
#18 benzo(a)pyrene

R.T.: 14.297 min
Delta R.T.: 0.000 min
Response: 5267736
Conc: 56.99 µg/ml



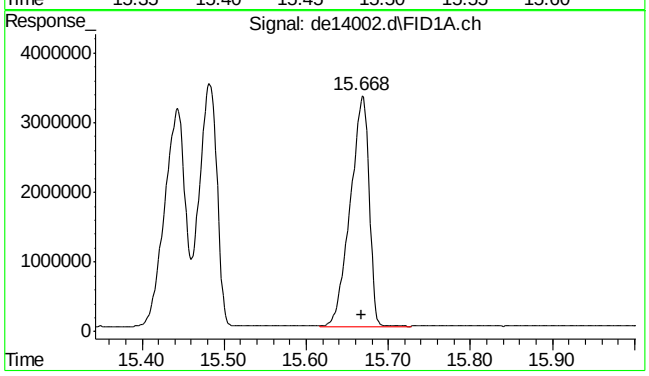
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.443 min
Delta R.T.: 0.000 min
Response: 5583300
Conc: 58.98 µg/ml



#20 dibenzo(ah)anthracene

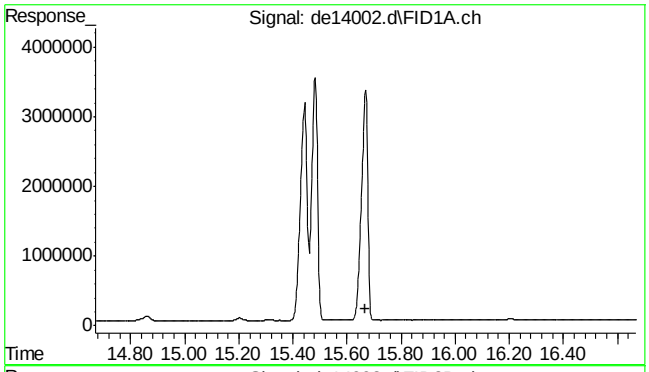
R.T.: 15.482 min
Delta R.T.: 0.000 min
Response: 5037996
Conc: 55.12 µg/ml



#21 benzo(ghi)perylene

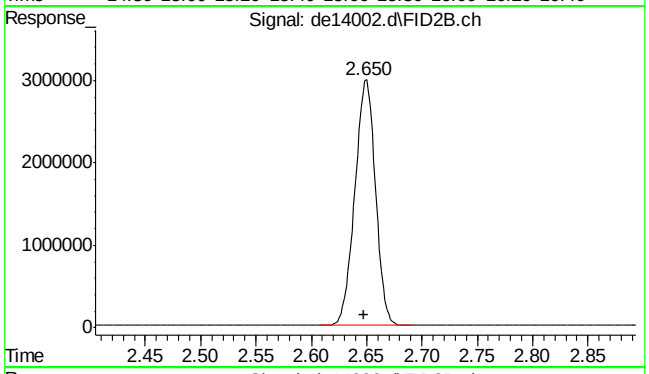
R.T.: 15.668 min
Delta R.T.: 0.000 min
Response: 5250455
Conc: 56.99 µg/ml

SGS ACCUTEST MC45580



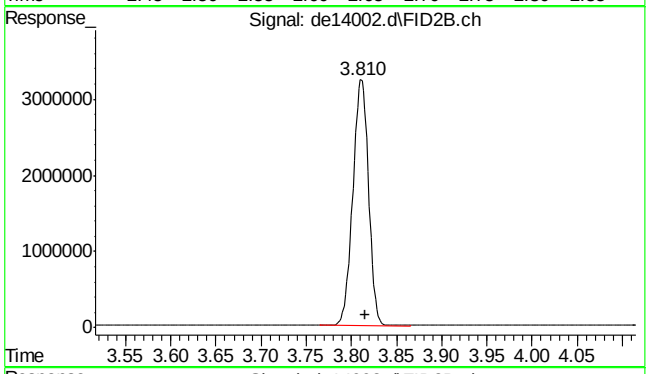
#22 bht

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



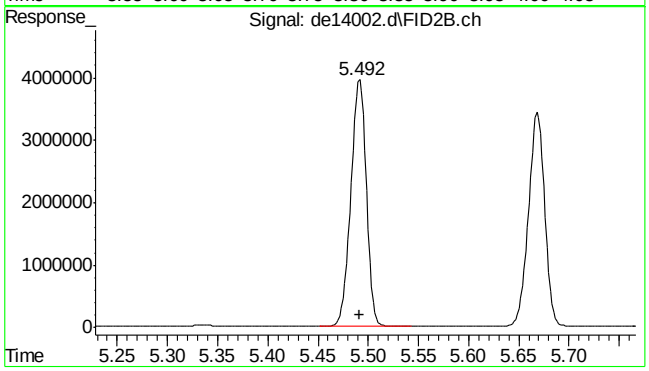
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 3875901
Conc: 52.47 µg/ml m



#26 c-10

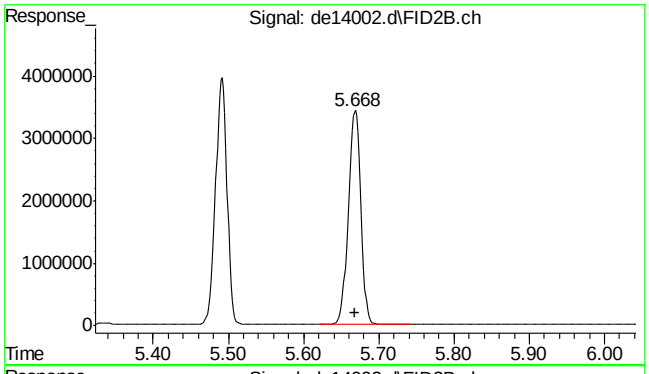
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 3933101
Conc: 53.24 µg/ml



#27 naphthalene #2

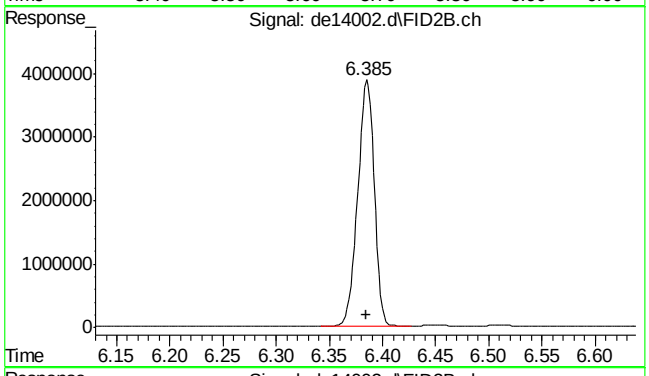
R.T.: 5.492 min
Delta R.T.: 0.000 min
Response: 4196627
Conc: 52.54 µg/ml

SGS ACCUTEST MC45580



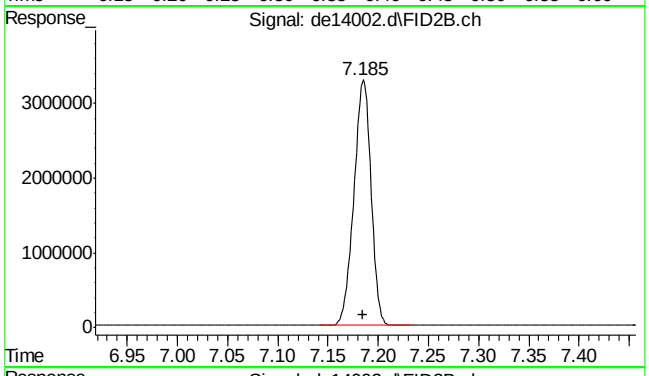
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 3908589
Conc: 52.91 µg/ml



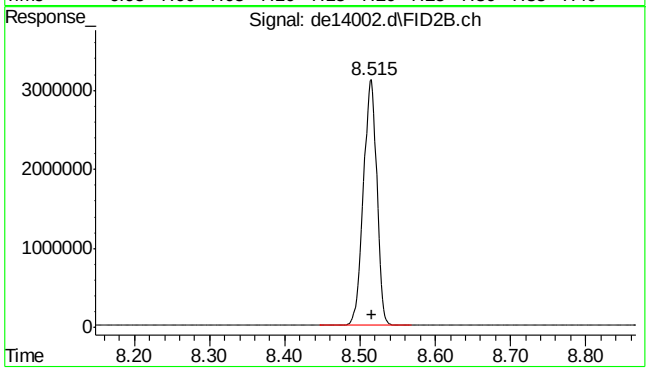
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4193018
Conc: 52.04 µg/ml



#30 c-14

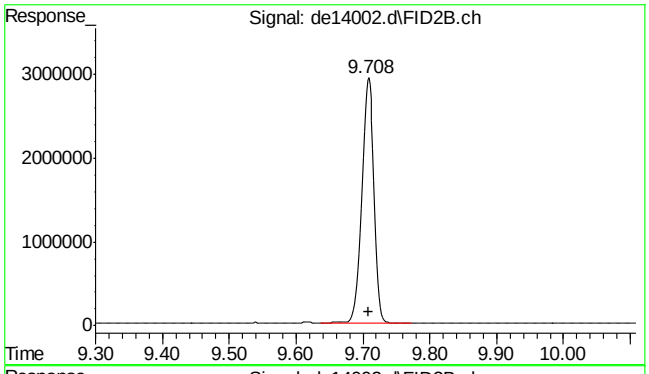
R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 3885134
Conc: 52.59 µg/ml



#31 c-16

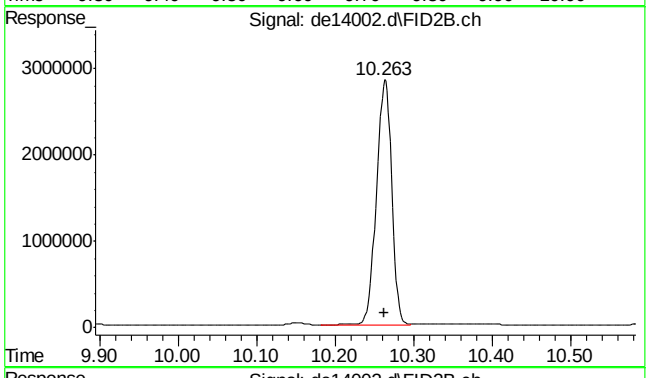
R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 3852336
Conc: 52.15 µg/ml

SGS ACCUTEST MC45580



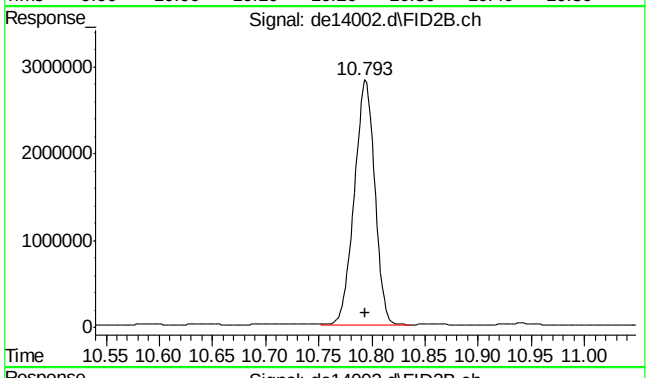
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3851067
Conc: 52.13 µg/ml



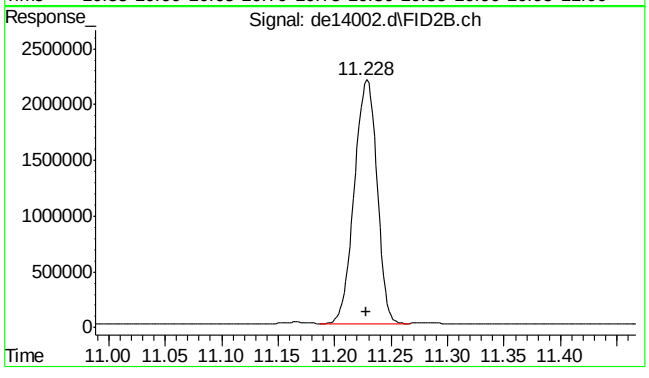
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3829277
Conc: 57.32 µg/ml



#34 c-20

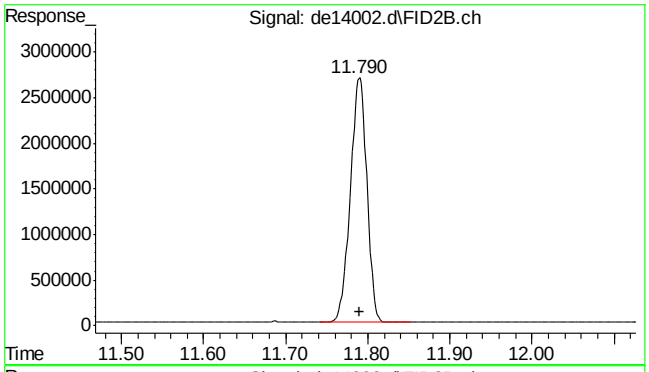
R.T.: 10.793 min
Delta R.T.: 0.000 min
Response: 3761422
Conc: 56.30 µg/ml



#35 1-chlorooctadecane

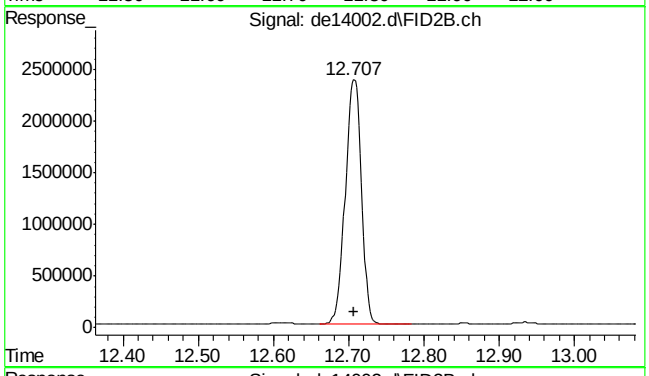
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3046717
Conc: 53.85 µg/ml

SGS ACCUTEST MC45580



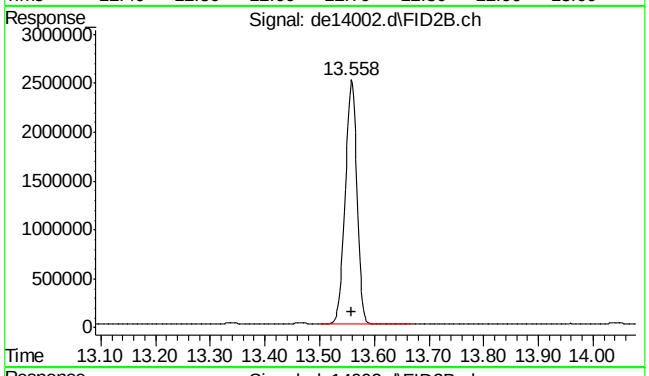
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.000 min
Response: 3745507
Conc: 56.07 µg/ml



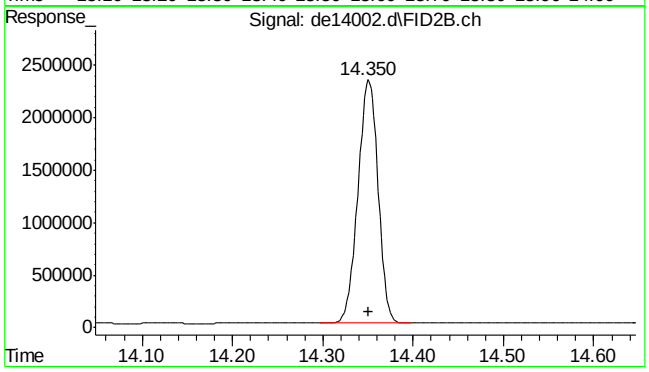
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.000 min
Response: 3509682
Conc: 52.54 µg/ml



#38 c-26

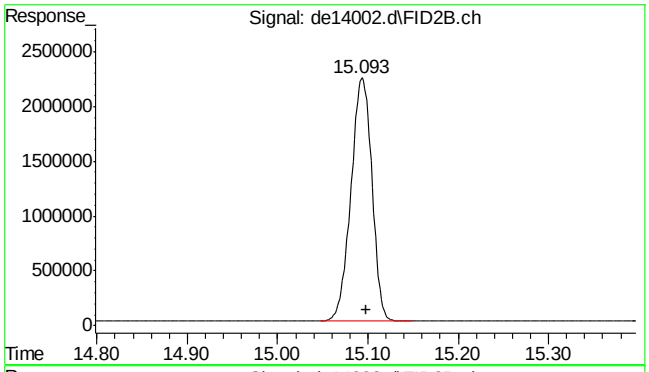
R.T.: 13.558 min
Delta R.T.: 0.000 min
Response: 3734303
Conc: 55.90 µg/ml



#39 c-28

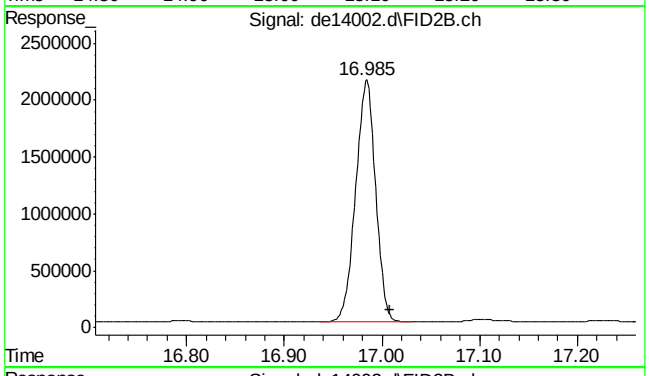
R.T.: 14.350 min
Delta R.T.: 0.000 min
Response: 3608439
Conc: 54.01 µg/ml

SGS ACCUTEST MC45580



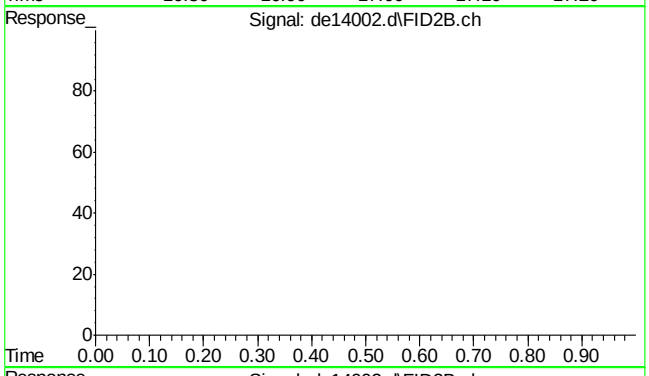
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3606146
Conc: 53.98 µg/ml



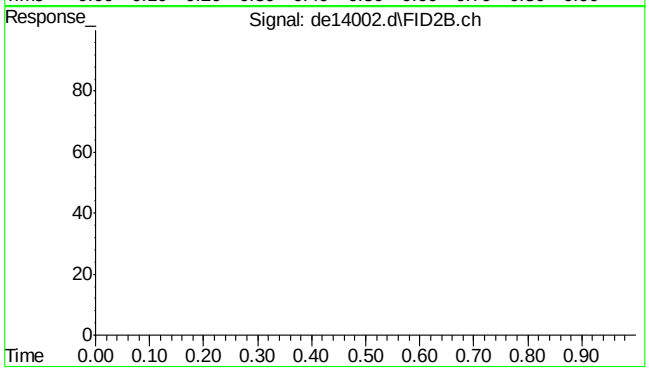
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 3005570
Conc: 44.99 µg/ml m



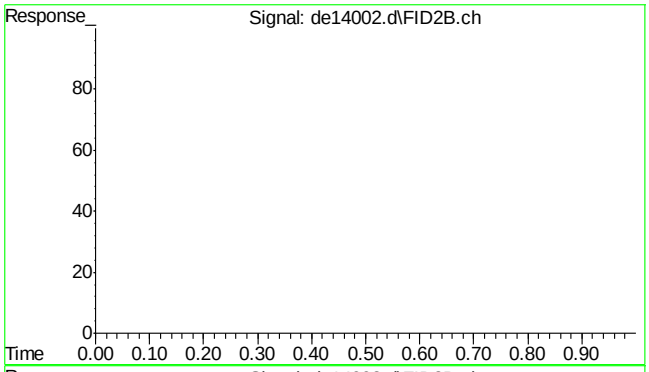
#42 bht

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



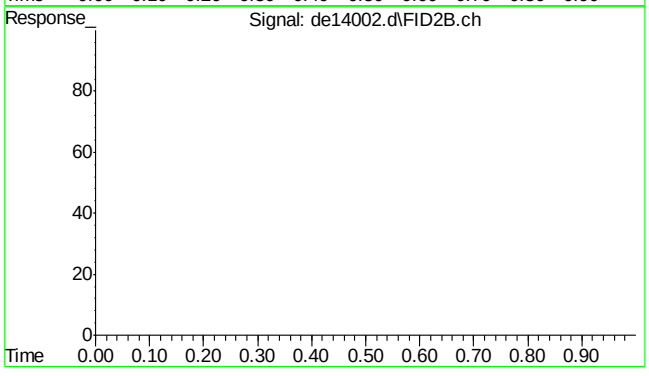
#43 bht

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



#44 bht

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



#45 bht

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	6.690	5668045	61.456 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 307.28%#
6) s	2-bromonaphthalene	7.423	3776060	60.172 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 300.86%#
11) s	o-terphenyl	9.965	6023413	58.807 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 294.04%#
35) s	1-chlorooctadecane	11.228	3087949	54.582 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 272.91%#
	Target Compounds			
2)	naphthalene	5.240	6425983	62.303 µg/ml
3)	2-methylnaphthalene	6.140	6276069	61.241 µg/ml
5)	acenaphthylene	7.257	6109460	60.729 µg/ml
7)	acenaphthene	7.498	6352754	61.453 µg/ml
8)	fluorene	8.145	6126361	60.318 µg/ml
9)	phenanthrene	9.330	5992105	58.883 µg/ml
10)	anthracene	9.387	5756284	59.338 µg/ml
12)	fluoranthene	10.838	5788458	57.919 µg/ml
13)	pyrene	11.097	5919466	58.341 µg/ml
14)	benzo(a)anthracene	12.665	5528437	57.186 µg/ml
15)	chrysene	12.712	5567168	57.192 µg/ml
16)	benzo(B)fluoranthene	13.968	5636740	56.935 µg/ml
17)	benzo(k)fluoranthene	13.997	5513092	58.338 µg/ml
18)	benzo(a)pyrene	14.302	5319401	57.547 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.448	5380292	56.839 µg/ml
20)	dibenzo(ah)anthracene	15.490	5290442	57.883 µg/ml
21)	benzo(ghi)perylene	15.677	5260418	57.102 µg/ml
25) h	c-9	2.648	4121294	55.790 µg/mlm
26) h	c-10	3.815	4173595	56.498 µg/ml
27)	naphthalene #2	5.492	4443695	55.635 µg/ml
28)	c-12	5.668	4130569	55.915 µg/ml
29)	2-methylnaphthalene #2	6.385	4421416	54.879 µg/ml
30)	c-14	7.185	4066629	55.050 µg/ml
31)	c-16	8.515	3983337	53.922 µg/ml
32)	c-18	9.708	3940458	53.342 µg/ml
33)	c-19	10.263	3907901	58.496 µg/ml
34)	c-20	10.795	3820880	57.193 µg/ml
36)	c-22	11.792	3784675	56.651 µg/ml
37)	c-24	12.708	3518364	52.665 µg/ml
38)	c-26	13.562	3722516	55.721 µg/ml

SGS ACCUTEST MC45580

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 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	14.353	3583205	53.636	µg/ml
40) h	c-30	15.098	3555929	53.227	µg/ml
41) h	c-36	17.008	2937348	43.968	µg/mlm

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

9.5.10

9

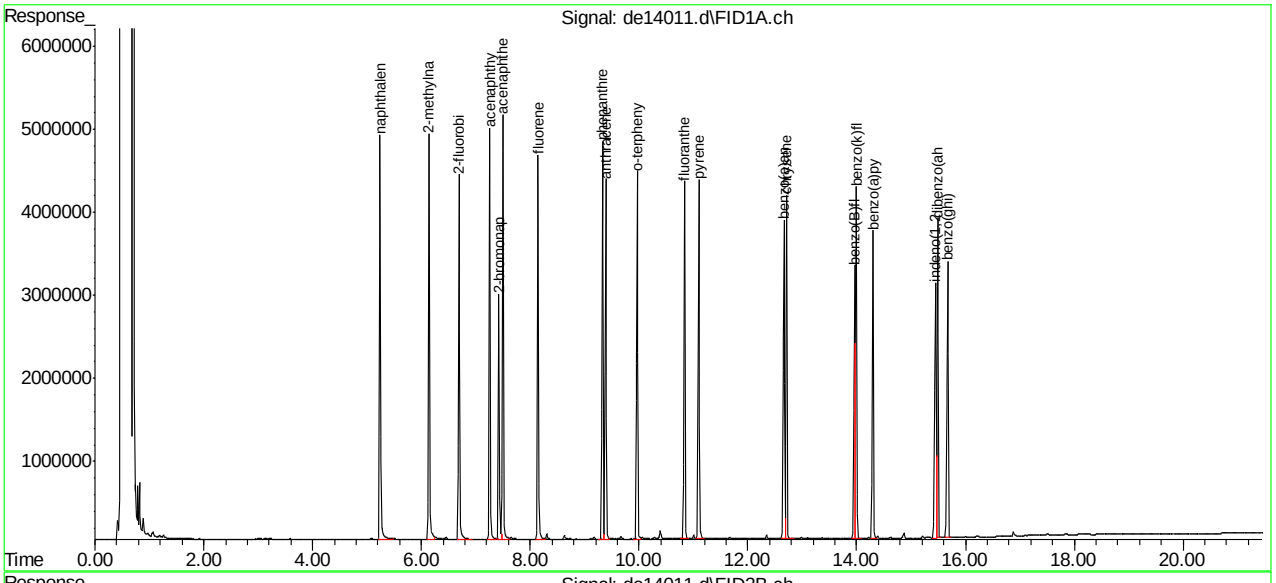
SGS ACCUTEST MC45580

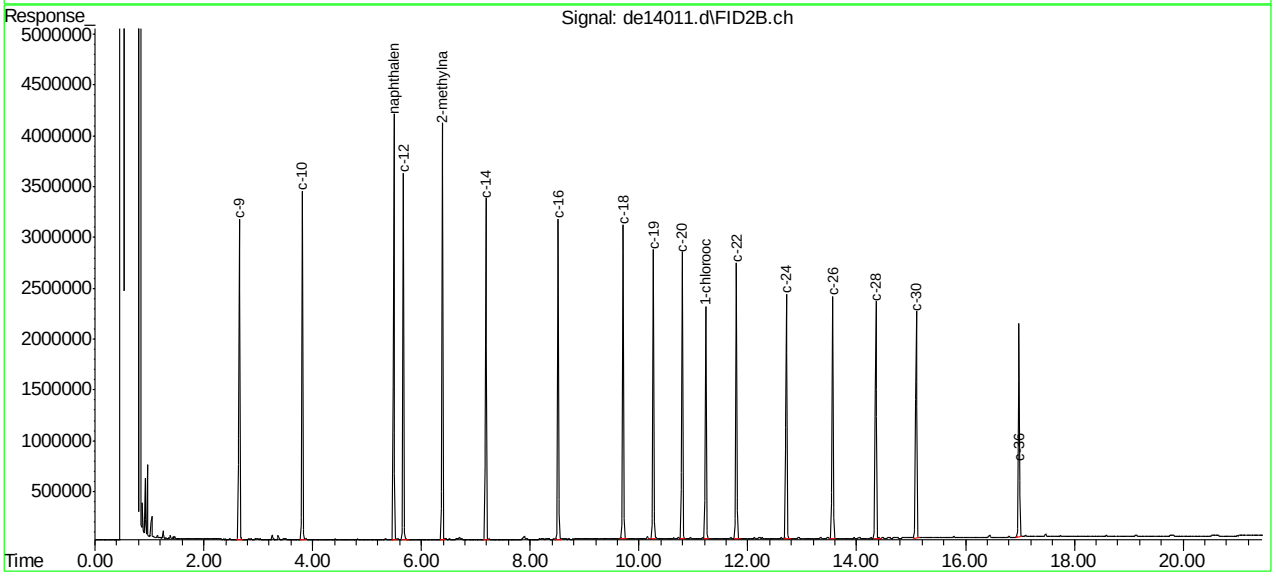
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160502aEPH\
Data File : de14011.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 2 May 2016 4:00 pm
Operator : thomasa
Sample : cc735-50, gde783
Misc : op47292,gde783,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

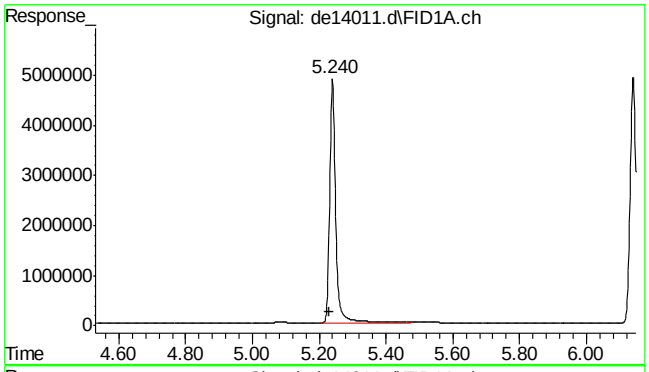
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: May 02 16:25:22 2016
Quant Method : C:\msdchem\1\METHODS\EPH160502W.M
Quant Title : BMAEPH-working method
QLast Update : Mon May 02 12:11:53 2016
Response via : Initial Calibration
Integrator: RTE

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



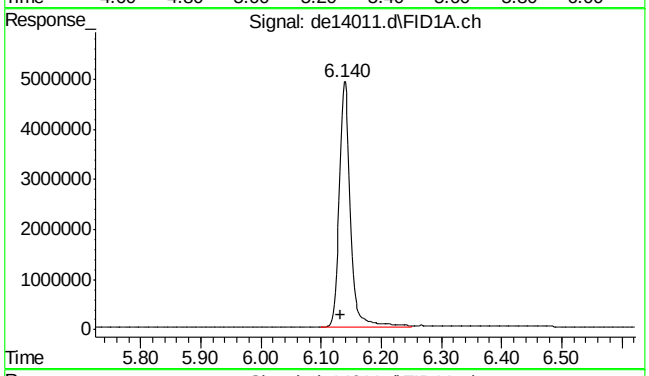


SGS ACCUTEST MC45580



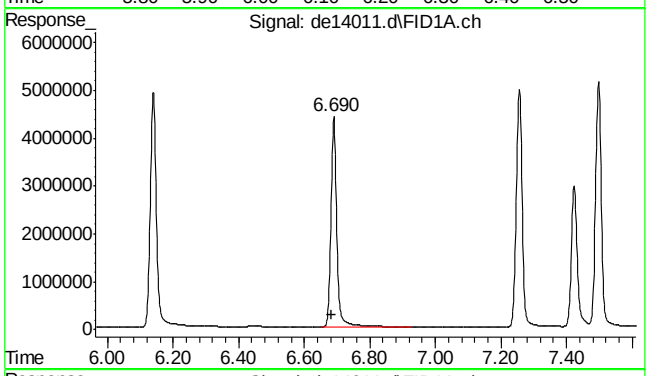
#2 naphthalene

R.T.: 5.240 min
Delta R.T.: 0.010 min
Response: 6425983
Conc: 62.30 µg/ml



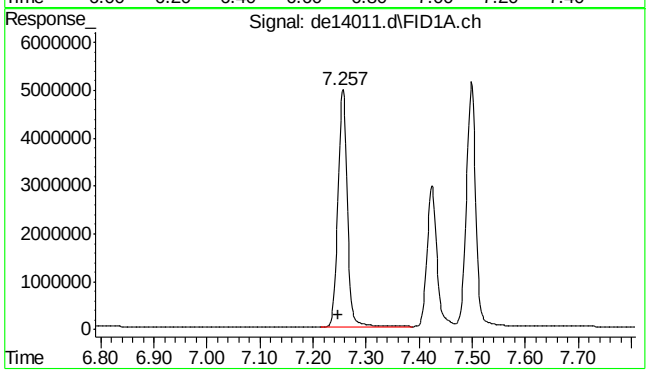
#3 2-methylnaphthalene

R.T.: 6.140 min
Delta R.T.: 0.008 min
Response: 6276069
Conc: 61.24 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.690 min
Delta R.T.: 0.008 min
Response: 5668045
Conc: 61.46 µg/ml



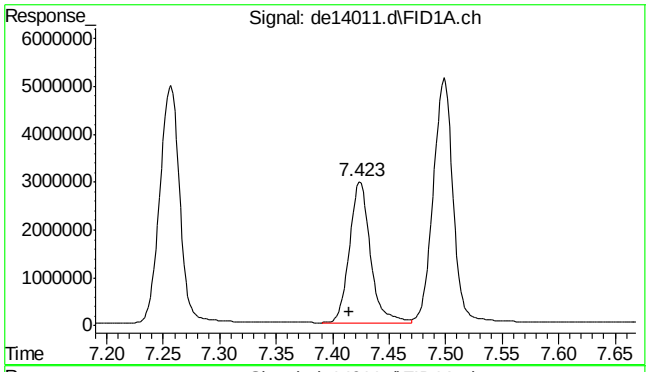
#5 acenaphthylene

R.T.: 7.257 min
Delta R.T.: 0.008 min
Response: 6109460
Conc: 60.73 µg/ml

9.5.10

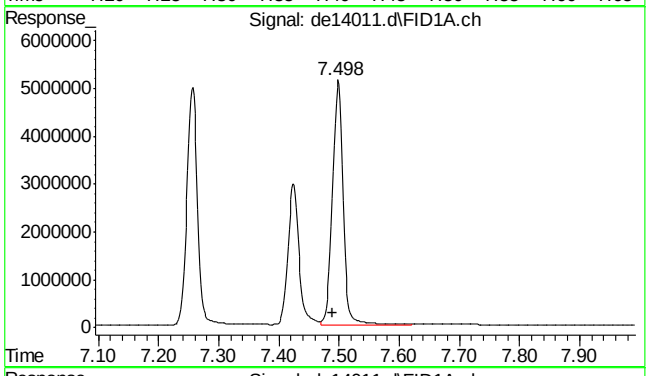
9

SGS ACCUTEST MC45580



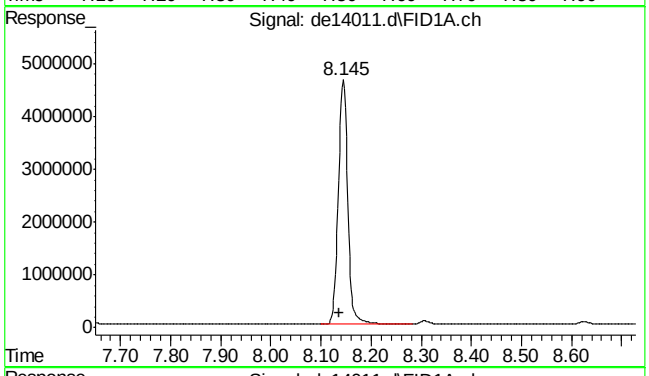
#6 2-bromonaphthalene

R.T.: 7.423 min
Delta R.T.: 0.008 min
Response: 3776060
Conc: 60.17 µg/ml



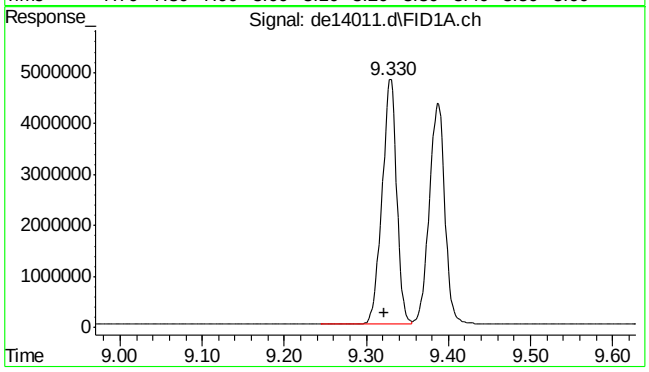
#7 acenaphthene

R.T.: 7.498 min
Delta R.T.: 0.008 min
Response: 6352754
Conc: 61.45 µg/ml



#8 fluorene

R.T.: 8.145 min
Delta R.T.: 0.008 min
Response: 6126361
Conc: 60.32 µg/ml



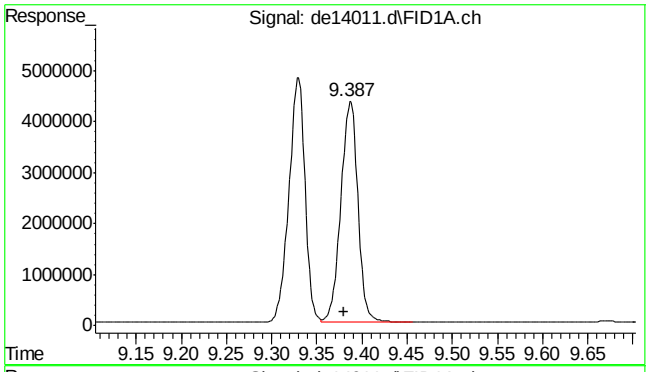
#9 phenanthrene

R.T.: 9.330 min
Delta R.T.: 0.008 min
Response: 5992105
Conc: 58.88 µg/ml

9.5.10

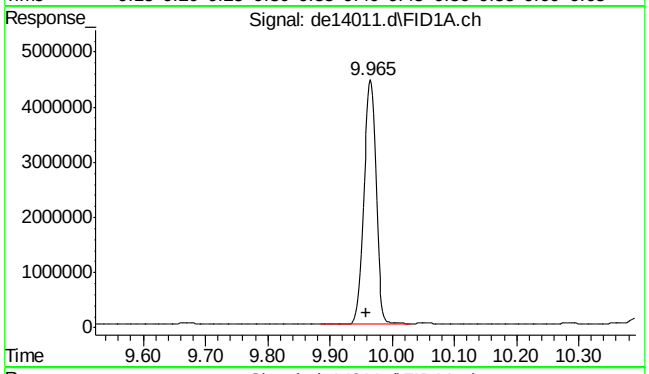
9

SGS ACCUTEST MC45580



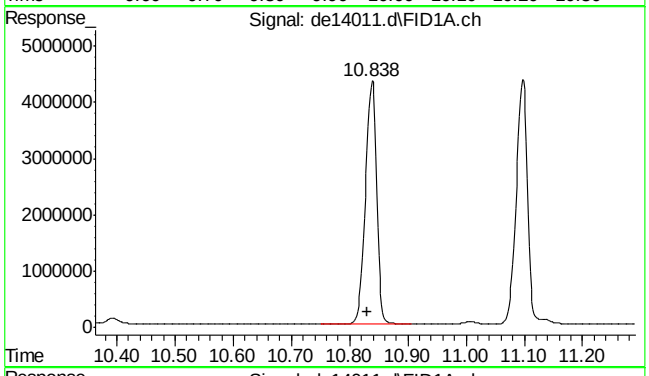
#10 anthracene

R.T.: 9.387 min
Delta R.T.: 0.007 min
Response: 5756284
Conc: 59.34 µg/ml



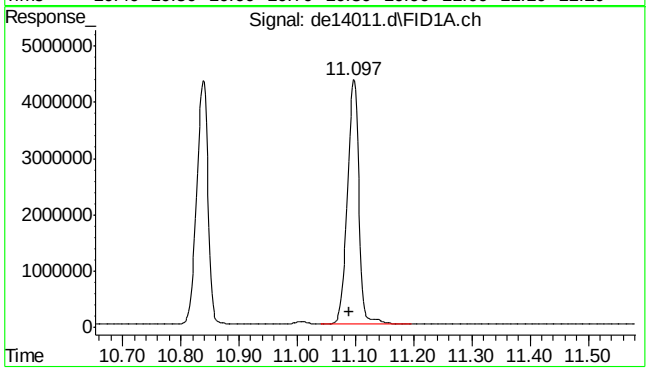
#11 o-terphenyl

R.T.: 9.965 min
Delta R.T.: 0.007 min
Response: 6023413
Conc: 58.81 µg/ml



#12 fluoranthene

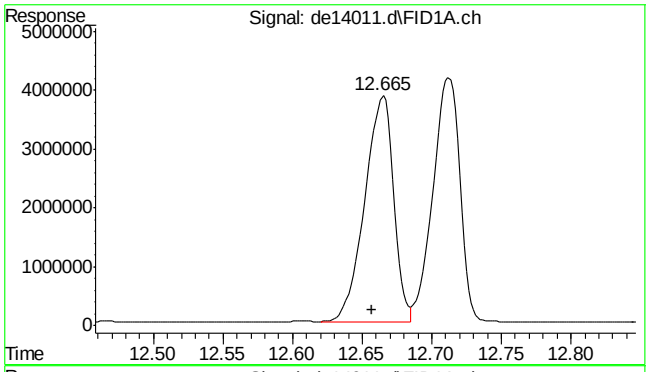
R.T.: 10.838 min
Delta R.T.: 0.008 min
Response: 5788458
Conc: 57.92 µg/ml



#13 pyrene

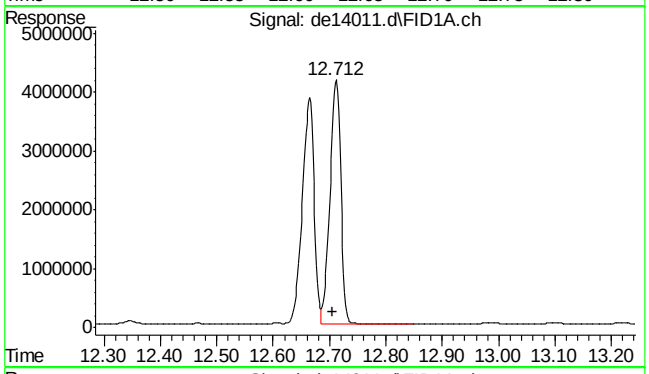
R.T.: 11.097 min
Delta R.T.: 0.007 min
Response: 5919466
Conc: 58.34 µg/ml

SGS ACCUTEST MC45580



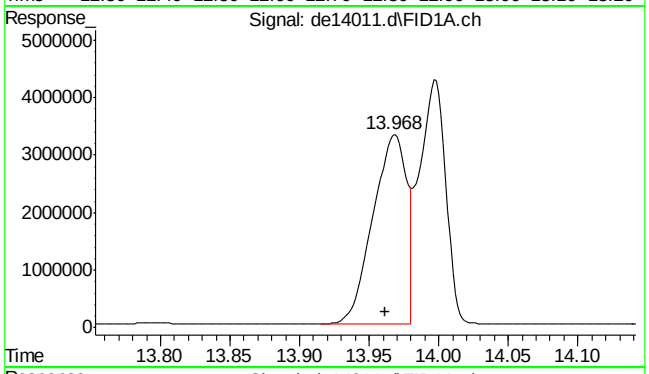
#14 benzo(a)anthracene

R.T.: 12.665 min
Delta R.T.: 0.008 min
Response: 5528437
Conc: 57.19 µg/ml



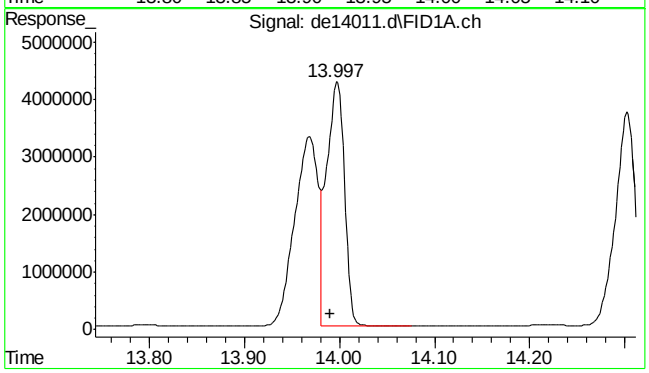
#15 chrysene

R.T.: 12.712 min
Delta R.T.: 0.007 min
Response: 5567168
Conc: 57.19 µg/ml



#16 benzo(B)fluoranthene

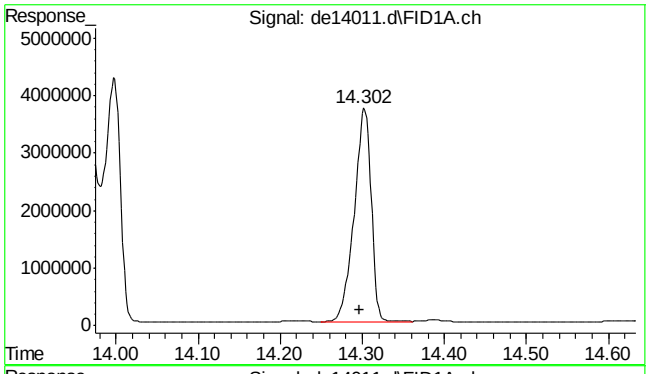
R.T.: 13.968 min
Delta R.T.: 0.007 min
Response: 5636740
Conc: 56.94 µg/ml



#17 benzo(k)fluoranthene

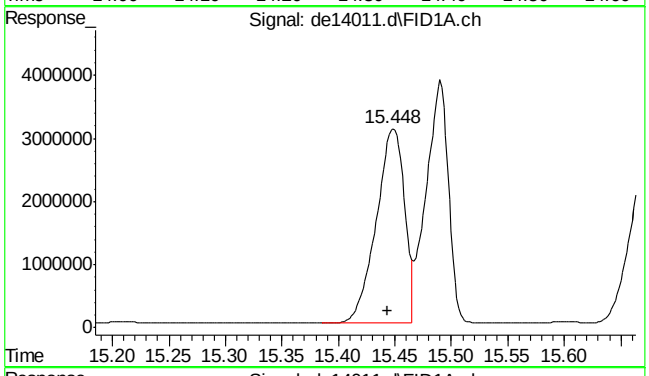
R.T.: 13.997 min
Delta R.T.: 0.007 min
Response: 5513092
Conc: 58.34 µg/ml

SGS ACCUTEST MC45580



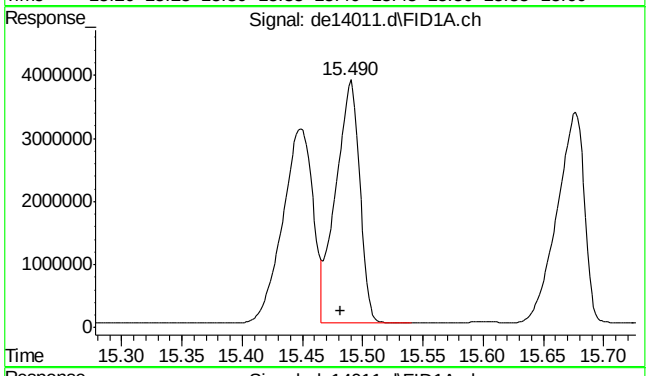
#18 benzo(a)pyrene

R.T.: 14.302 min
Delta R.T.: 0.005 min
Response: 5319401
Conc: 57.55 µg/ml



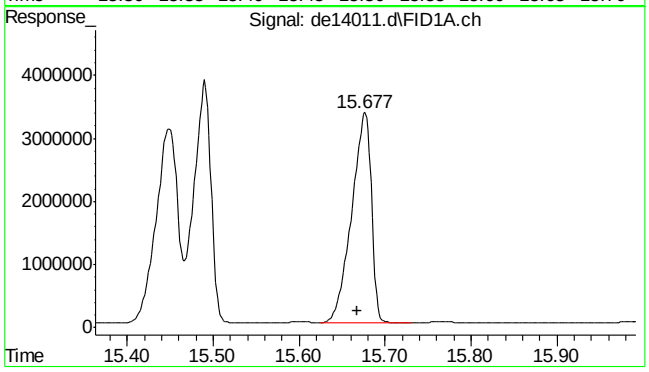
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.448 min
Delta R.T.: 0.005 min
Response: 5380292
Conc: 56.84 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.490 min
Delta R.T.: 0.008 min
Response: 5290442
Conc: 57.88 µg/ml



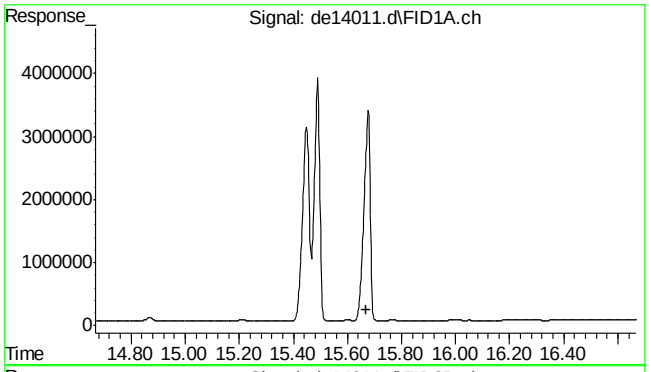
#21 benzo(ghi)perylene

R.T.: 15.677 min
Delta R.T.: 0.008 min
Response: 5260418
Conc: 57.10 µg/ml

9.5.10

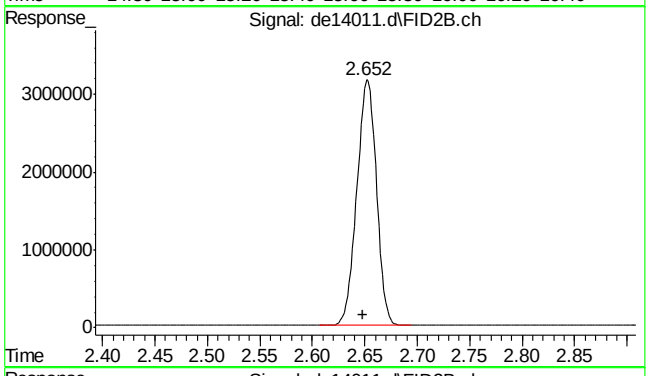
9

SGS ACCUTEST MC45580



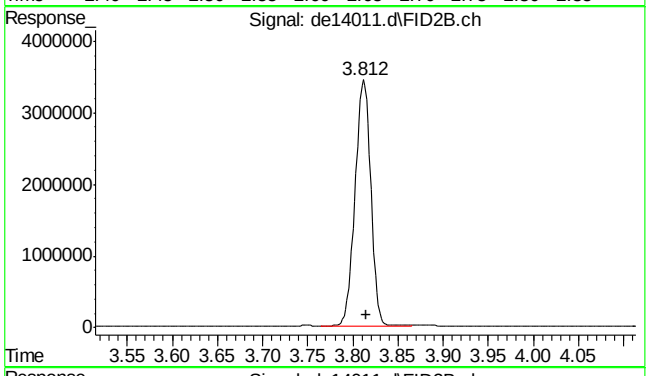
#22 bht

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



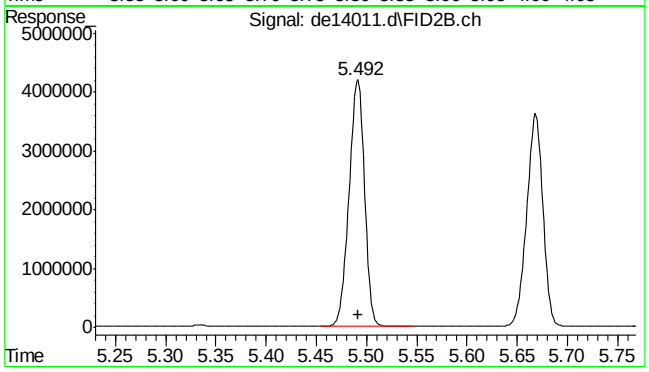
#25 c-9

R.T.: 2.648 min
Delta R.T.: 0.000 min
Response: 4121294
Conc: 55.79 µg/ml m



#26 c-10

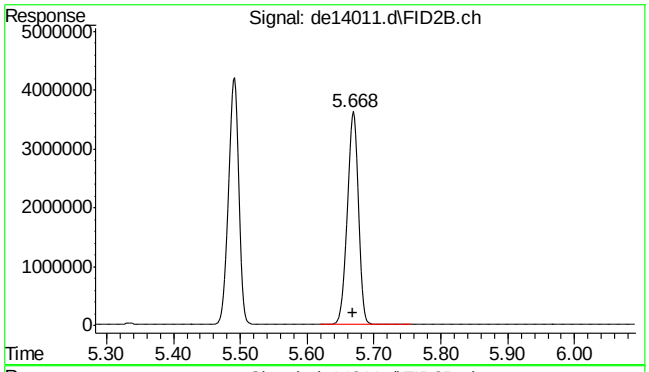
R.T.: 3.815 min
Delta R.T.: 0.000 min
Response: 4173595
Conc: 56.50 µg/ml



#27 naphthalene #2

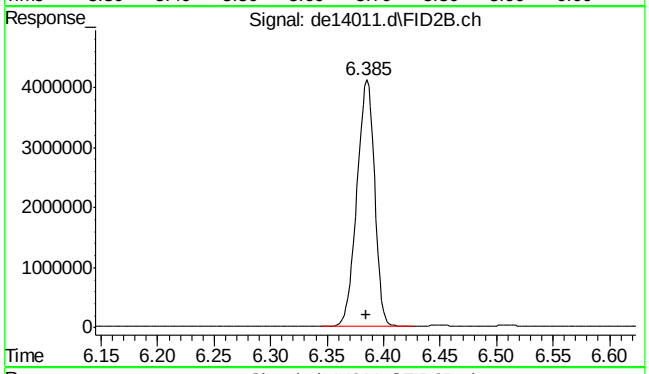
R.T.: 5.492 min
Delta R.T.: 0.000 min
Response: 4443695
Conc: 55.63 µg/ml

SGS ACCUTEST MC45580



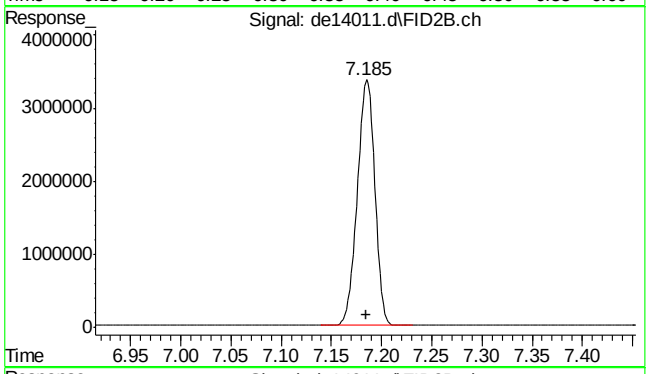
#28 c-12

R.T.: 5.668 min
Delta R.T.: 0.000 min
Response: 4130569
Conc: 55.92 µg/ml



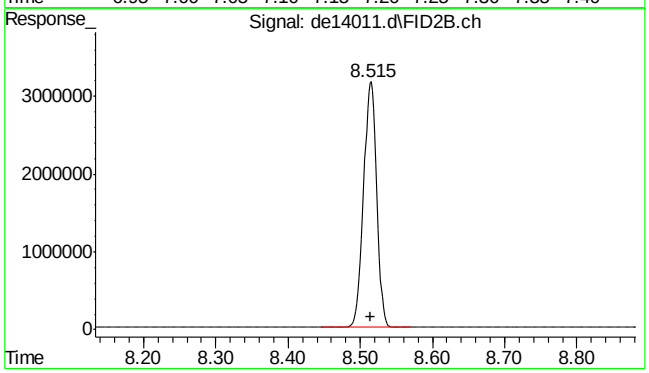
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.000 min
Response: 4421416
Conc: 54.88 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.000 min
Response: 4066629
Conc: 55.05 µg/ml



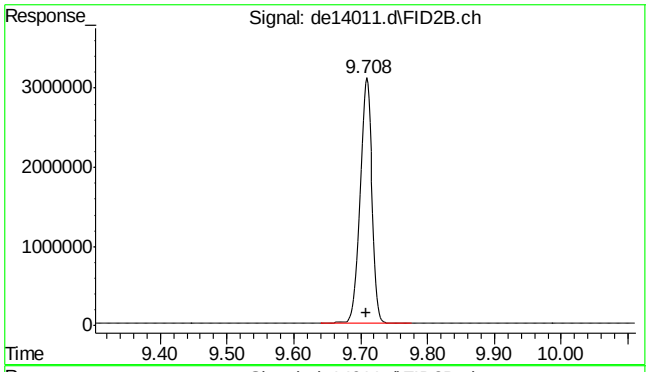
#31 c-16

R.T.: 8.515 min
Delta R.T.: 0.000 min
Response: 3983337
Conc: 53.92 µg/ml

9.5.10

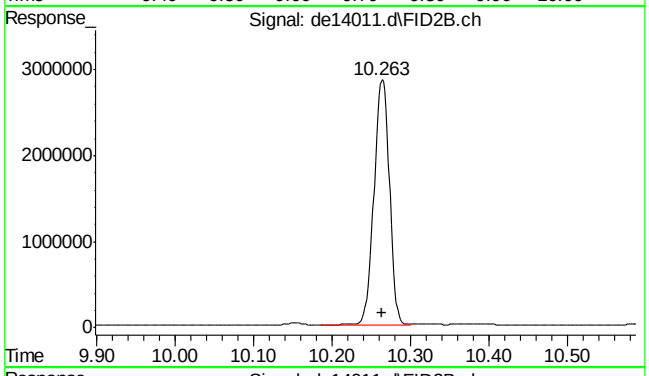
9

SGS ACCUTEST MC45580



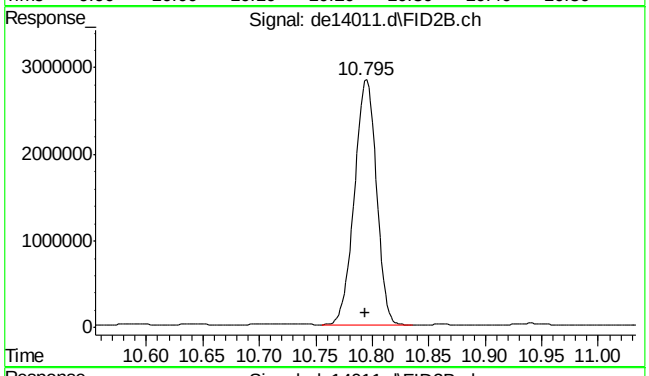
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.000 min
Response: 3940458
Conc: 53.34 µg/ml



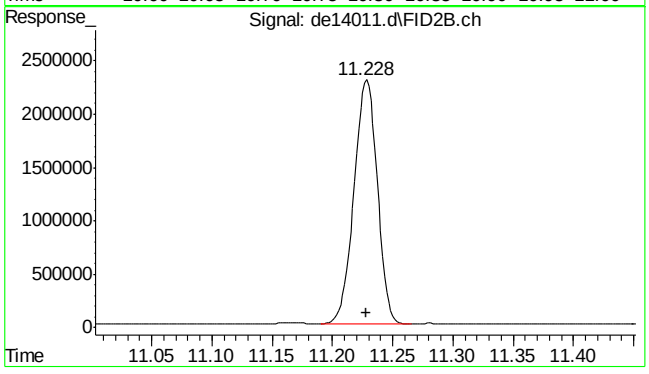
#33 c-19

R.T.: 10.263 min
Delta R.T.: 0.000 min
Response: 3907901
Conc: 58.50 µg/ml



#34 c-20

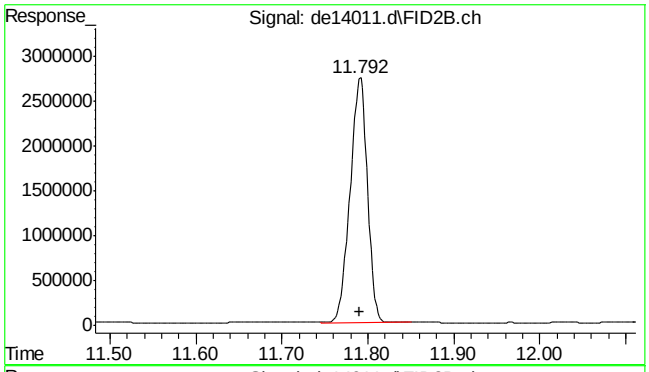
R.T.: 10.795 min
Delta R.T.: 0.002 min
Response: 3820880
Conc: 57.19 µg/ml



#35 1-chlorooctadecane

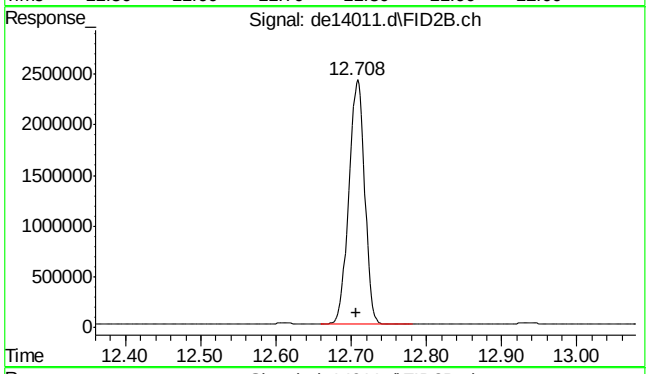
R.T.: 11.228 min
Delta R.T.: 0.000 min
Response: 3087949
Conc: 54.58 µg/ml

SGS ACCUTEST MC45580



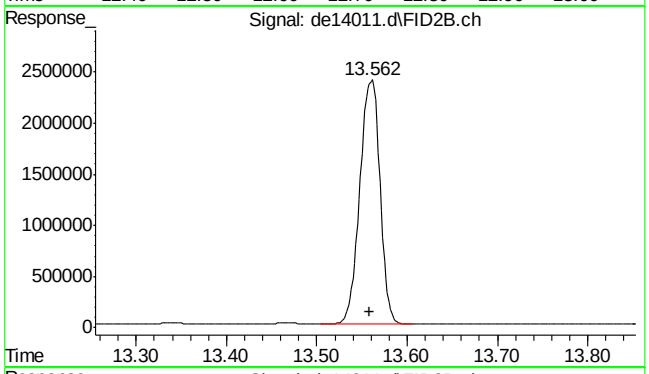
#36 c-22

R.T.: 11.792 min
Delta R.T.: 0.002 min
Response: 3784675
Conc: 56.65 µg/ml



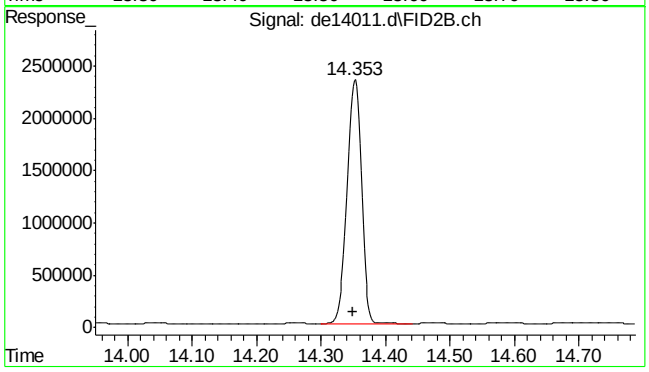
#37 c-24

R.T.: 12.708 min
Delta R.T.: 0.002 min
Response: 3518364
Conc: 52.67 µg/ml



#38 c-26

R.T.: 13.562 min
Delta R.T.: 0.003 min
Response: 3722516
Conc: 55.72 µg/ml



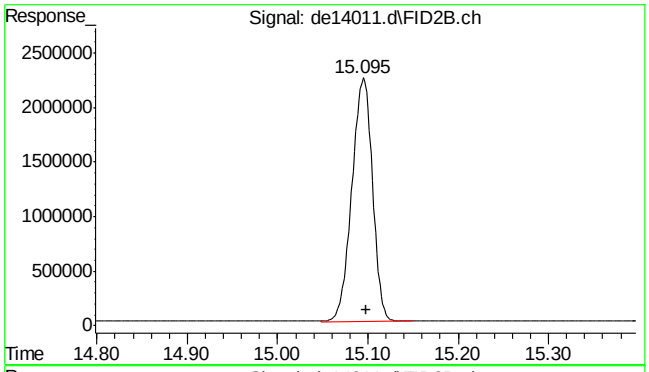
#39 c-28

R.T.: 14.353 min
Delta R.T.: 0.003 min
Response: 3583205
Conc: 53.64 µg/ml

9.5.10

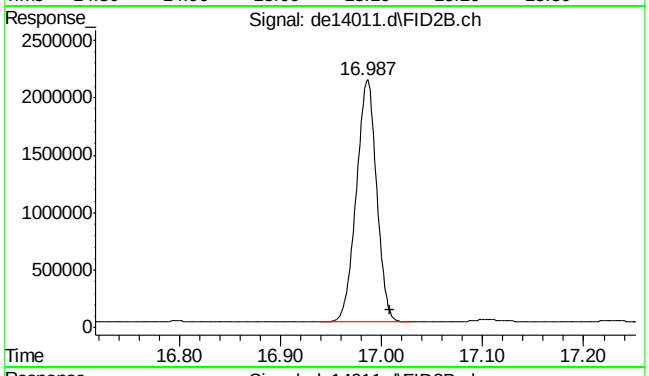
9

SGS ACCUTEST MC45580



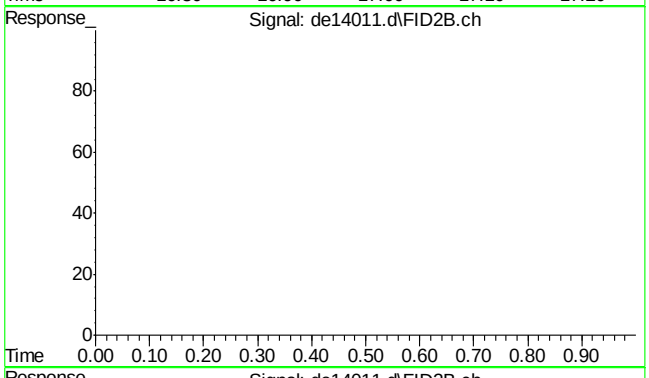
#40 c-30

R.T.: 15.098 min
Delta R.T.: 0.000 min
Response: 3555929
Conc: 53.23 µg/ml



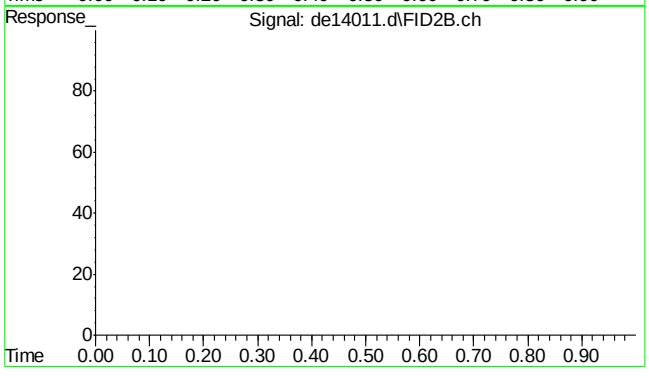
#41 c-36

R.T.: 17.008 min
Delta R.T.: 0.000 min
Response: 2937348
Conc: 43.97 µg/ml m



#42 bht

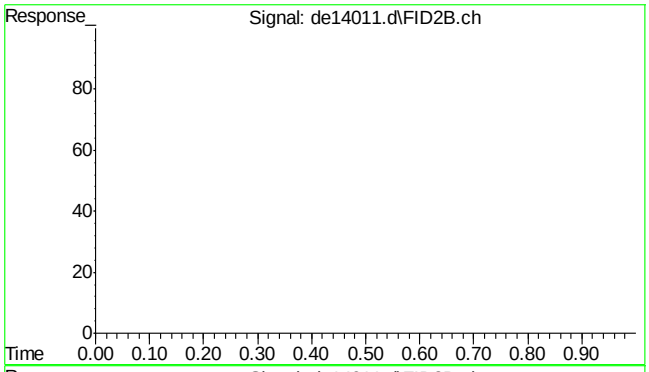
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

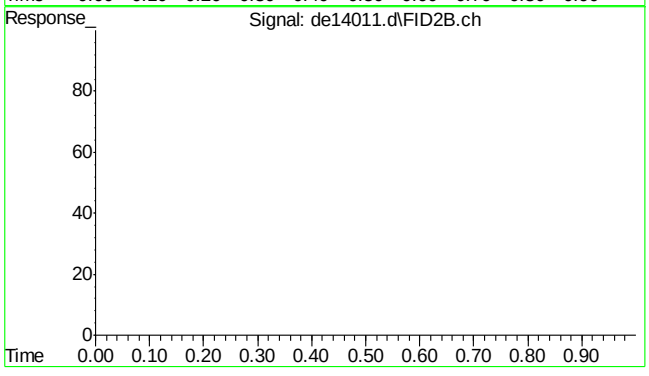
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC45580



#44 bht

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



#45 bht

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

9.5.10

9

SGS ACCUTEST MC45580

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)~~ TR ~~(EPH160205W.M)~~ EPH160204W.M

Instrument Run Batches: GDE ~~(735)~~ TR 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

SGS ACCUTEST MC45580

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 MC45580

Accutest Laboratories of New England, Inc.

Instrument: GC 32 (GCDE)

GC Analysis Log - Extractables

Run Date: 5.3.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
GS18061	Al. CCV	50 ug/ml
↓ 055	Ard CCV	50 ug/ml

Column Information: Front : RTX-5 Alternate:
Rear : RTX-5 Alternate:

Sequence File: DE160502a EPH.S

Quantitation Methods: EPH160502 w.m

Instrument Run Batches: GDE 783

Data Acquisition Methods: EPH DUAL W

Inj. Vol:

Inj. Vol:

Date of ICAL: 2-4-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE 14002	CCC 735-50	OP47292	MA EPH	W	N/A	OK
1/2	003	OP47292-BS					
3/4	004	-BSD					
5/6	005	-MB					
7/8	006	MC45580-1A					
9/10	007	-2A					
11/12	008	MC45611-2A					
13/14	009	OP47292-MS					
15/16	010	-MSD					
141/142	DE 14011	CCC 735-50					OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC011-01
Rev. 03/26/07

Review:

50

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14002.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde783

Name	Amount	Response
c-9	52.47	3875901
c-10	53.24	3933101
c-12	52.91	3908589
c-14	52.59	3885134
c-16	52.15	3852336
c-18	52.13	3851067
c-19	57.32	3829277
c-20	56.30	3761422
c-22	56.07	3745507
c-24	52.54	3509682
c-26	55.90	3734303
c-28	54.01	3608439
c-30	53.98	3606146
c-36	44.99	3005570

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	77687	73872	**5.03**	**In Criteria**
C19-C36	72001	66806	**7.48**	**In Criteria**
c28/c20 Percentage:			95.93	

1-chlorooctadecane	53.85	3046717
naphthalene #2	52.54	4196627
2-methylnaphthalene	52.04	4193018

9.6.2

9

SGS ACCUTEST MC45580

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14011.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc735-50, gde783

Name	Amount	Response
c-9	55.79	4121294
c-10	56.50	4173595
c-12	55.92	4130569
c-14	55.05	4066629
c-16	53.92	3983337
c-18	53.34	3940458
c-19	58.50	3907901
c-20	57.19	3820880
c-22	56.65	3784675
c-24	52.67	3518364
c-26	55.72	3722516
c-28	53.64	3583205
c-30	53.23	3555929
c-36	43.97	2937348

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	81386	73872	**9.68**	**In Criteria**
C19-C36	72077	66806	**7.59**	**In Criteria**
c28/c20 Percentage:			93.78	

1-chlorooctadecane	54.58	3087949
naphthalene #2	55.63	4443695
2-methylnaphthalene	54.88	4421416

9.6.2

9

SGS ACCUTEST MC45580

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47292-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.86	50	51.43	
2-methylnaphthalene		13.73	50	54.90	
2-fluorobiphenyl	s	16.40	40	82.01	
acenaphthylene		15.42	50	61.67	
2-bromonaphthalene	s	14.08	40	70.41	
acenaphthene		17.20	50	68.79	
fluorene		17.65	50	70.60	
phenanthrene		18.76	50	75.04	
anthracene		22.96	50	91.83	
o-terphenyl	s	15.88	40	79.39	
fluoranthene		22.62	50	90.47	
pyrene		22.57	50	90.28	
benzo(a)anthracene		24.13	50	96.54	
chrysene		24.08	50	96.30	
benzo(B)fluoranthene		24.44	50	97.75	
benzo(k)fluoranthene		23.82	50	95.28	
benzo(a)pyrene		24.89	50	99.55	
indeno(1,2,3-cd)pyrene		24.75	50	99.00	
dibenzo(ah)anthracene		24.84	50	99.38	
benzo(ghi)perylene		25.12	50	100.49	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		9.54	50	38.17	
c-10		11.93	50	47.70	
c-12		14.47	50	57.89	
c-14		17.24	50	68.97	
c-16		19.49	50	77.97	
c-18		22.13	50	88.52	
c-19		25.64	50	102.56	
c-20		26.29	50	105.16	
1-chlorooctadecane	s	16.26	40	81.31	
c-22		27.16	50	108.65	
c-24		26.92	50	107.68	
c-26		26.36	50	105.45	
c-28		26.07	50	104.27	
c-30		25.59	50	102.34	
c-36		18.58	50	74.32	

Recovery C9-C18
63.20

Recovery C19-C36
101.30

naphthalene #2	0.08	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.62	0.46

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47292-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		12.81	50	51.23	
2-methylnaphthalene		13.75	50	54.98	
2-fluorobiphenyl	s	17.19	40	85.94	
acenaphthylene		15.22	50	60.88	
2-bromonaphthalene	s	14.82	40	74.09	
acenaphthene		17.05	50	68.21	
fluorene		17.01	50	68.06	
phenanthrene		18.08	50	72.32	
anthracene		22.29	50	89.14	
o-terphenyl	s	15.58	40	77.88	
fluoranthene		22.22	50	88.90	
pyrene		22.04	50	88.18	
benzo(a)anthracene		23.70	50	94.80	
chrysene		23.72	50	94.87	
benzo(B)fluoranthene		23.65	50	94.58	
benzo(k)fluoranthene		24.09	50	96.34	
benzo(a)pyrene		24.67	50	98.68	
indeno(1,2,3-cd)pyrene		24.40	50	97.61	
dibenzo(ah)anthracene		24.57	50	98.29	
benzo(ghi)perylene		24.81	50	99.22	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		8.73	50	34.93	
c-10		11.02	50	44.08	
c-12		13.26	50	53.05	
c-14		15.08	50	60.33	
c-16		16.63	50	66.50	
c-18		19.03	50	76.14	
c-19		22.04	50	88.14	
c-20		22.67	50	90.69	
1-chlorooctadecane	s	14.64	40	73.22	
c-22		23.62	50	94.48	
c-24		23.56	50	94.24	
c-26		23.19	50	92.74	
c-28		23.01	50	92.02	
c-30		22.76	50	91.03	
c-36		17.92	50	71.66	

Recovery C9-C18
55.84

Recovery C19-C36
89.38

naphthalene #2	0.09	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.08	0.67	0.57

SGS ACCUTEST

Extraction Log - Aqueous

Analysis Method: BHAEPHR

Date Started: _____ Time Started: _____

Date Finished: _____ Time Finished: _____

Extraction Method (Check one):

Sep. Funnel SW3510C ✓

Waste Dilution SW3580A _____ MSE EPA 3511 _____

pH paper lot# 216814 Equipment ID Used _____

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7653	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	2000	20
FMC	P07661	40	1mL

	Sample #	Sample Bottle #	Acid pH	Base pH	Sample Description	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
	OP47292 - MB	N/A	2	N/A	DI Water	1000	2.0	
	BS	↓	↓	↓	↓	↓	↓	
	BSD	↓	↓	↓	↓	↓	↓	
	MC45611-2A MS	14			GW	880		
	MSD	12			↓	880		
1	MC45580-1A	5			GW	880	2.0	
2	-2A	4			↓	880	↓	
3	MC45611-2A	13			↓	880	↓	Sample received unpreserved
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								

Comments:

Witness Initials:

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

BATCH # OP47292	INITIALS	DATE	TIME
Extracted by:	IC	4/29/16	21:30
Spike Witness:		↓	↓
Concentrated by:	PA	05/11/16	
Fractionated by:	↓	Volume (ml): 12.5	
Received by:			

Tray # ~~Gt 32~~ E-9

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)			
Waterbath Temp °C	1	75/80	
NEVAP (32-38 °C)	5	40°C	
Chiller			
Balance	N/A	N/A	N/A

SOLVENT	LOT #	BRAND	AMT
1:1 HEXANE/ ACETONE		Fisher	
1:1 METH CHLOR/ ACETONE		Fisher	
HEXANE Only	162040	Fisher	
ETHER		Fisher	
ACETONITRILE		Fisher	
ACETONE		Fisher	
DCM	162108	Fisher	

REAGENT	LOT #	BRAND
SPE MFG	30625LE	Restek
SILICA GEL		
SODIUM SULFATE	D-018	FISHER
FILTER PAPER	966841	FISHER
COPPER		
FLORISIL		
SULFURIC ACID		
HYDROMATRIX		
SAND		
Filtered by:	Init./Date:	
HCl	4115020	FISHER

SGS ACCUTEST - MARLBOROUGH
Form: OP018-02
Rev Date: 2/23/16