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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: MC46423

Sampling Dates: 06/13/16 - 06/16/16

Report to:

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Total number of pages in report: **811**

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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.

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Sample Summary

Anderson Mulholland and Assoc.

Job No: MC46423

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46423-1	06/13/16	12:25	NMR	06/17/16	AQ	Ground Water	S-33
MC46423-1A	06/13/16	12:25	NMR	06/17/16	AQ	Ground Water	S-33
MC46423-2	06/13/16	13:05	NMR	06/17/16	AQ	Ground Water	S-34
MC46423-2A	06/13/16	13:05	NMR	06/17/16	AQ	Ground Water	S-34
MC46423-3	06/15/16	13:02	NMR	06/17/16	AQ	Ground Water	G-1R3
MC46423-3A	06/15/16	13:02	NMR	06/17/16	AQ	Ground Water	G-1R3
MC46423-4	06/15/16	14:42	NMR	06/17/16	AQ	Ground Water	E-1R
MC46423-4A	06/15/16	14:42	NMR	06/17/16	AQ	Ground Water	E-1R
MC46423-5	06/15/16	17:16	NMR	06/17/16	AQ	Ground Water	D-1R
MC46423-5A	06/15/16	17:16	NMR	06/17/16	AQ	Ground Water	D-1R
MC46423-6	06/16/16	12:30	NMR	06/17/16	AQ	Ground Water	MW-19
MC46423-6A	06/16/16	12:30	NMR	06/17/16	AQ	Ground Water	MW-19
MC46423-7	06/16/16	13:22	NMR	06/17/16	AQ	Ground Water	MW-22S

SGS Accutest

Sample Summary
(continued)

Anderson Mulholland and Assoc.

Job No: MC46423

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

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
MC46423-7A	06/16/16	13:22	NMR	06/17/16	AQ	Ground Water	MW-22S

SAMPLE DELIVERY GROUP CASE NARRATIVE

Client:	Anderson Mulholland and Assoc.	**Job No**	MC46423
Site:	BMSMC, Building 5 Area, Puerto Rico	**Report Date**	7/1/2016 10:03:22 AM

7 Sample(s), 0 Trip Blank(s) and 0 Field Blank(s) were collected on between 06/13/2016 and 06/16/2016 and were received at SGS Accutest New England on 06/17/2016 properly preserved, at 2.5 Deg. C and intact. These Samples received a job number of MC46423. 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:** GWX3796

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46423-7MS, MC46423-7MSD were used as the QC samples indicated.

Extractables by GC By Method MADEP EPH REV 1.1

Matrix: AQ **Batch ID:** OP47988

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC46423-1A, MC46423-2A, MC46423-3A, MC46423-4A, MC46423-6A, MC46423-7A have compound(s) reported with a “B” qualifier, indicating analyte is found in the associated method blank.

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(MC46423).

Summary of Hits

Job Number: MC46423
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 06/13/16 thru 06/16/16

Lab Sample ID Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46423-1	**S-33**					
C5- C8 Aliphatics (Unadj.)		30.9 J	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		72.3	50	25	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		50.0	50	25	ug/l	MADEP VPH REV 1.1
MC46423-1A	**S-33**					
C11-C22 Aromatics (Unadj.)		33.2 JB	110	30	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		20.6 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		32.9 J	110	29	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		32.6 JB	110	30	ug/l	MADEP EPH REV 1.1
MC46423-2	**S-34**					
No hits reported in this sample.						
MC46423-2A	**S-34**					
C11-C22 Aromatics (Unadj.)		34.2 JB	110	31	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		22.7 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		40.9 J	110	29	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		34.2 JB	110	31	ug/l	MADEP EPH REV 1.1
MC46423-3	**G-1R3**					
C5- C8 Aliphatics (Unadj.)		167	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		63100	5000	2500	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		112	50	25	ug/l	MADEP VPH REV 1.1
C5- C8 Aliphatics		67.1	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics		753	50	25	ug/l	MADEP VPH REV 1.1
MC46423-3A	**G-1R3**					
C11-C22 Aromatics (Unadj.)		36.4 JB	110	31	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		25.8 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		96.7 J	110	29	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		36.4 JB	110	31	ug/l	MADEP EPH REV 1.1
MC46423-4	**E-1R**					
C5- C8 Aliphatics (Unadj.)		36.4 J	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		55.4	50	25	ug/l	MADEP VPH REV 1.1
C5- C8 Aliphatics		27.7 J	50	25	ug/l	MADEP VPH REV 1.1

Summary of Hits

Job Number: MC46423
Account: Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Collected: 06/13/16 thru 06/16/16

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
MC46423-4A	**E-1R**					
C11-C22 Aromatics (Unadj.)		60.6 JB	100	30	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		22.7 J	100	17	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		46.6 J	100	28	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		32.4 JB	100	30	ug/l	MADEP EPH REV 1.1
MC46423-5	**D-1R**					
No hits reported in this sample.						
MC46423-5A	**D-1R**					
C9-C18 Aliphatics		20.8 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		33.7 J	110	29	ug/l	MADEP EPH REV 1.1
MC46423-6	**MW-19**					
C5- C8 Aliphatics (Unadj.)		27.2 J	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics (Unadj.)		19500	2500	1300	ug/l	MADEP VPH REV 1.1
C9- C10 Aromatics (Unadj.)		100	50	25	ug/l	MADEP VPH REV 1.1
C5- C8 Aliphatics		26.3 J	50	25	ug/l	MADEP VPH REV 1.1
C9- C12 Aliphatics		65.3	50	25	ug/l	MADEP VPH REV 1.1
MC46423-6A	**MW-19**					
C11-C22 Aromatics (Unadj.)		85.3 JB	110	30	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		72.7 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		37.3 J	110	29	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		78.4 JB	110	30	ug/l	MADEP EPH REV 1.1
MC46423-7	**MW-22S**					
No hits reported in this sample.						
MC46423-7A	**MW-22S**					
C11-C22 Aromatics (Unadj.)		39.1 JB	110	31	ug/l	MADEP EPH REV 1.1
C9-C18 Aliphatics		19.9 J	110	18	ug/l	MADEP EPH REV 1.1
C19-C36 Aliphatics		59.6 J	110	29	ug/l	MADEP EPH REV 1.1
C11-C22 Aromatics		39.1 JB	110	31	ug/l	MADEP EPH REV 1.1

Sample Results

Report of Analysis

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Report of Analysis

Client Sample ID:	S-33		
Lab Sample ID:	MC46423-1	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77172.D	1	06/20/16	AF	n/a	n/a	GWX3796
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.)	30.9	50	25	ug/l	J
	C9- C12 Aliphatics (Unadj.)	72.3	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	50.0	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	98%		70-130%
	2,3,4-Trifluorotoluene	101%		70-130%

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

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Report of Analysis

Client Sample ID:	S-33		
Lab Sample ID:	MC46423-1A	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14765.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

	Initial Volume	Final Volume
Run #1	950 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	33.2	110	30	ug/l	JB
	C9-C18 Aliphatics	20.6	110	18	ug/l	J
	C19-C36 Aliphatics	32.9	110	29	ug/l	J
	C11-C22 Aromatics	32.6	110	30	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	45%		40-140%
321-60-8	2-Fluorobiphenyl	70%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	77%		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

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Report of Analysis

Client Sample ID:	S-34		
Lab Sample ID:	MC46423-2	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77173.D	1	06/20/16	AF	n/a	n/a	GWX3796
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	94%		70-130%
	2,3,4-Trifluorotoluene	96%		70-130%

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

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Report of Analysis

Client Sample ID:	S-34		
Lab Sample ID:	MC46423-2A	**Date Sampled:**	06/13/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14766.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

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

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	34.2	110	31	ug/l	JB
	C9-C18 Aliphatics	22.7	110	18	ug/l	J
	C19-C36 Aliphatics	40.9	110	29	ug/l	J
	C11-C22 Aromatics	34.2	110	31	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	63%		40-140%
321-60-8	2-Fluorobiphenyl	71%		40-140%
3386-33-2	1-Chlorooctadecane	63%		40-140%
580-13-2	2-Bromonaphthalene	78%		40-140%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	G-1R3		
Lab Sample ID:	MC46423-3	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77174.D	1	06/20/16	AF	n/a	n/a	GWX3796
Run #2	WX77180.D	100	06/20/16	AF	n/a	n/a	GWX3796

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	167	50	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	63100 [a]	5000	2500	ug/l	
	C9- C10 Aromatics (Unadj.)	112	50	25	ug/l	
	C5- C8 Aliphatics	67.1	50	25	ug/l	
	C9- C12 Aliphatics	753	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	106%	90%	70-130%
	2,3,4-Trifluorotoluene	108%	94%	70-130%

(a) Result is from Run# 2

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:	G-1R3		
Lab Sample ID:	MC46423-3A	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14767.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

	Initial Volume	Final Volume
Run #1	935 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	36.4	110	31	ug/l	JB
	C9-C18 Aliphatics	25.8	110	18	ug/l	J
	C19-C36 Aliphatics	96.7	110	29	ug/l	J
	C11-C22 Aromatics	36.4	110	31	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	51%		40-140%
321-60-8	2-Fluorobiphenyl	72%		40-140%
3386-33-2	1-Chlorooctadecane	60%		40-140%
580-13-2	2-Bromonaphthalene	78%		40-140%

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

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

SGS Accutest

Report of Analysis

Client Sample ID:	E-1R		
Lab Sample ID:	MC46423-4	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77179.D	1	06/20/16	AF	n/a	n/a	GWX3796
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.)	36.4	50	25	ug/l	J
	C9- C12 Aliphatics (Unadj.)	55.4	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	27.7	50	25	ug/l	J
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	91%		70-130%
	2,3,4-Trifluorotoluene	94%		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:	E-1R		
Lab Sample ID:	MC46423-4A	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14768.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

	Initial Volume	Final Volume
Run #1	970 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	60.6	100	30	ug/l	JB
	C9-C18 Aliphatics	22.7	100	17	ug/l	J
	C19-C36 Aliphatics	46.6	100	28	ug/l	J
	C11-C22 Aromatics	32.4	100	30	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	61%		40-140%
321-60-8	2-Fluorobiphenyl	67%		40-140%
3386-33-2	1-Chlorooctadecane	64%		40-140%
580-13-2	2-Bromonaphthalene	74%		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:	D-1R		
Lab Sample ID:	MC46423-5	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77176.D	1	06/20/16	AF	n/a	n/a	GWX3796
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

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

ND = Not detected MDL = Method Detection Limit
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:	D-1R		
Lab Sample ID:	MC46423-5A	**Date Sampled:**	06/15/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14769.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	ND	110	30	ug/l	
	C9-C18 Aliphatics	20.8	110	18	ug/l	J
	C19-C36 Aliphatics	33.7	110	29	ug/l	J
	C11-C22 Aromatics	ND	110	30	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	42%		40-140%
321-60-8	2-Fluorobiphenyl	67%		40-140%
3386-33-2	1-Chlorooctadecane	43%		40-140%
580-13-2	2-Bromonaphthalene	74%		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:	MW-19		
Lab Sample ID:	MC46423-6	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77177.D	1	06/20/16	AF	n/a	n/a	GWX3796
Run #2	WX77181.D	50	06/20/16	AF	n/a	n/a	GWX3796

	Purge Volume
Run #1	5.0 ml
Run #2	5.0 ml

Volatile TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	27.2	50	25	ug/l	J
	C9- C12 Aliphatics (Unadj.)	19500 [a]	2500	1300	ug/l	
	C9- C10 Aromatics (Unadj.)	100	50	25	ug/l	
	C5- C8 Aliphatics	26.3	50	25	ug/l	J
	C9- C12 Aliphatics	65.3	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	93%	91%	70-130%
	2,3,4-Trifluorotoluene	96%	95%	70-130%

(a) Result is from Run# 2

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:	MW-19		
Lab Sample ID:	MC46423-6A	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14770.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

	Initial Volume	Final Volume
Run #1	940 ml	2.0 ml
Run #2		

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	85.3	110	30	ug/l	JB
	C9-C18 Aliphatics	72.7	110	18	ug/l	J
	C19-C36 Aliphatics	37.3	110	29	ug/l	J
	C11-C22 Aromatics	78.4	110	30	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	51%		40-140%
321-60-8	2-Fluorobiphenyl	64%		40-140%
3386-33-2	1-Chlorooctadecane	48%		40-140%
580-13-2	2-Bromonaphthalene	67%		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:	MW-22S		
Lab Sample ID:	MC46423-7	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	WX77182.D	1	06/20/16	AF	n/a	n/a	GWX3796
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	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
	2,3,4-Trifluorotoluene	90%		70-130%
	2,3,4-Trifluorotoluene	94%		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:	MW-22S		
Lab Sample ID:	MC46423-7A	**Date Sampled:**	06/16/16
Matrix:	AQ - Ground Water	**Date Received:**	06/17/16
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	DE14771.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
Run #2							

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

Extractable TPHC Ranges

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	39.1	110	31	ug/l	JB
	C9-C18 Aliphatics	19.9	110	18	ug/l	J
	C19-C36 Aliphatics	59.6	110	29	ug/l	J
	C11-C22 Aromatics	39.1	110	31	ug/l	JB

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	60%		40-140%
321-60-8	2-Fluorobiphenyl	67%		40-140%
3386-33-2	1-Chlorooctadecane	65%		40-140%
580-13-2	2-Bromonaphthalene	74%		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

CHAIN OF CUSTODY

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

80996056287O

PAGE 1 OF 1

Bottle Order Control # MC46423
SGS Accutest Quote #
SGS Accutest Job # Ect from NJ

Client / Reporting Information

Company Name: Anderson Mcholland Assoc Inc
Street Address: 2700 Westchester
City State Zip: Purchase NY
Project Contact: Terry Taylor E-mail:
Phone #: 914-251-0400 Fax #:
Sampler(s) Name(s): Nestor M. Rivera Phone #:

Project Information

Project Name: BMS
Street:
City State: Humacao PR
Project #:
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)
Company Name:
Street Address:
City State Zip:
Attention:

Requested Analysis (see TEST CODE sheet)

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

SGS Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	VMAVPH	BMAEPHR	LAB USE ONLY
-1	S-33		6/13/16	1225	NMR	GW	4	4								X	X	
-2	S-34		6/13/16	1305	NMR	GW	4	4								X	X	
-3	G-1R3		6/15/16	1302	NMR	GW	4	4								X	X	
-4	E-1R		6/15/16	1442	NMR	GW	4	4								X	X	
-5	D-1R		6/15/16	1716	NMR	GW	4	4								X	X	19D
-6	MW-19		6/16/16	1230	NMR	GW	4	4								X	X	
-7	MW-22S		6/16/16	1322	NMR	GW	4	4								X	X	S63

Turnaround Time (Business days)

Approved By (SGS Accutest PM): / Date:

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

Emergency & Rush T/A data available VIA Lablink

Data Deliverable Information

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

Commercial "A" = Results Only, Commercial "B" = Results + QC Summary
NJ Reduced = Results + QC Summary + Partial Raw data

Comments / Special Instructions

INITIAL ASESSMENT
LABEL VERIFICATION

Sample inventory is verified upon receipt in the Laboratory.

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

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 Nestor M Rivera	6/16/16 1800	1 FedEx	2 FedEx	6/17/16 9:30	2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # 732, 734 [ ] Intact [ ] Not intact	Preserved where applicable [ ]	On Ice [x] Cooler Temp. 2.5, 1.8C

5.1 5

MC46423: Chain of Custody
Page 1 of 3

SGS Accutest Sample Receipt Summary

Job Number: MC46423 **Client:** ANDERSON **Project:** BMS

Date / Time Received: 6/17/2016 9:30:00 AM **Delivery Method:** FED **Airbill #'s:** 8099 6056 2870 0402

Cooler Temps (Initial/Adjusted): #1: (1.8/1.8); #2: (2.5/2.5);

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. Cooler temp verification:	IRGUN1
3. Cooler media:	Ice (Bag)
4. No. Coolers:	2

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

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 rec'd within HT:	☑ ☐
2. All containers accounted for:	☑ ☐
3. Condition of sample:	Intact

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

Comments

MC46423-1,3,4,5 HAS BUBBLE LESS(6MM) AND-2 1-40ML HAS HEADSPACE

Sample Receipt Summary - Problem Resolution

Job Number: MC46423

CSR: Rob Soll **Response Date** 6/20/2016

Response: Proceed with analyses as per client email.

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC46423

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46423-1 S-33	Collected: 13-JUN-16 12:25 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-1	MADEP VPH REV 1.1	20-JUN-16 09:52	AF			VMAVPHR
MC46423-2 S-34	Collected: 13-JUN-16 13:05 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-2	MADEP VPH REV 1.1	20-JUN-16 10:30	AF			VMAVPHR
MC46423-3 G-1R3	Collected: 15-JUN-16 13:02 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-3	MADEP VPH REV 1.1	20-JUN-16 11:07	AF			VMAVPHR
MC46423-3	MADEP VPH REV 1.1	20-JUN-16 14:49	AF			VMAVPHR
MC46423-4 E-1R	Collected: 15-JUN-16 14:42 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-4	MADEP VPH REV 1.1	20-JUN-16 14:12	AF			VMAVPHR
MC46423-5 D-1R	Collected: 15-JUN-16 17:16 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-5	MADEP VPH REV 1.1	20-JUN-16 12:21	AF			VMAVPHR
MC46423-6 MW-19	Collected: 16-JUN-16 12:30 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-6	MADEP VPH REV 1.1	20-JUN-16 12:58	AF			VMAVPHR
MC46423-6	MADEP VPH REV 1.1	20-JUN-16 15:27	AF			VMAVPHR
MC46423-7 MW-22S	Collected: 16-JUN-16 13:22 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-7	MADEP VPH REV 1.1	20-JUN-16 16:03	AF			VMAVPHR
MC46423-1A S-33	Collected: 13-JUN-16 12:25 By: NMR		Received: 17-JUN-16 By: NT			

Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

Job No: MC46423

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

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
MC46423-1A	MADEP EPH REV 1.1	30-JUN-16 14:35	TA	27-JUN-16	FT	BMAEPHR
MC46423-2A S-34	Collected: 13-JUN-16 13:05 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-2A	MADEP EPH REV 1.1	30-JUN-16 15:03	TA	27-JUN-16	FT	BMAEPHR
MC46423-3A G-1R3	Collected: 15-JUN-16 13:02 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-3A	MADEP EPH REV 1.1	30-JUN-16 15:30	TA	27-JUN-16	FT	BMAEPHR
MC46423-4A E-1R	Collected: 15-JUN-16 14:42 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-4A	MADEP EPH REV 1.1	30-JUN-16 15:58	TA	27-JUN-16	FT	BMAEPHR
MC46423-5A D-1R	Collected: 15-JUN-16 17:16 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-5A	MADEP EPH REV 1.1	30-JUN-16 16:25	TA	27-JUN-16	FT	BMAEPHR
MC46423-6A MW-19	Collected: 16-JUN-16 12:30 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-6A	MADEP EPH REV 1.1	30-JUN-16 16:53	TA	27-JUN-16	FT	BMAEPHR
MC46423-7A MW-22S	Collected: 16-JUN-16 13:22 By: NMR		Received: 17-JUN-16 By: NT			
MC46423-7A	MADEP EPH REV 1.1	30-JUN-16 17:21	TA	27-JUN-16	FT	BMAEPHR

SGS Accutest Internal Chain of Custody

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 06/17/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC46423-1.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-1.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-1.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-1.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-1.3	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-1.4	Walk In Ref #22	Forrest Thompson	06/22/16 17:24	Retrieve from Storage
MC46423-1.4	Forrest Thompson		06/29/16 14:11	Depleted
MC46423-2.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-2.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-2.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-2.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-2.3	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-2.4	Walk In Ref #22	Forrest Thompson	06/22/16 17:24	Retrieve from Storage
MC46423-2.4	Forrest Thompson		06/29/16 14:11	Depleted
MC46423-3.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-3.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-3.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-3.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-3.3	Walk In Ref #22	Ilir Capi	06/27/16 14:35	Retrieve from Storage
MC46423-3.4	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-3.5	VOC Ref #5	Anthony Franciosa	06/20/16 13:35	Retrieve from Storage
MC46423-3.5	Anthony Franciosa	GCWX	06/20/16 13:35	Load on Instrument
MC46423-3.5	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-3.5	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-4.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-4.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-4.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-4.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-4.3	Walk In Ref #22	Ilir Capi	06/27/16 14:35	Retrieve from Storage
MC46423-4.4	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-4.5	VOC Ref #5	Anthony Franciosa	06/20/16 13:35	Retrieve from Storage

SGS Accutest Internal Chain of Custody

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 06/17/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC46423-4.5	Anthony Franciosa	GCWX	06/20/16 13:35	Load on Instrument
MC46423-4.5	GCWX	Anthony Franciosa	06/21/16 08:34	Unload from Instrument
MC46423-4.5	Anthony Franciosa	VOC Ref #5	06/21/16 08:34	Return to Storage
MC46423-5.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-5.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-5.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-5.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-5.3	Walk In Ref #22	Ilir Capi	06/27/16 14:35	Retrieve from Storage
MC46423-5.4	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-6.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-6.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-6.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-6.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-6.2	VOC Ref #5	Anthony Franciosa	06/20/16 13:35	Retrieve from Storage
MC46423-6.2	Anthony Franciosa	GCWX	06/20/16 13:35	Load on Instrument
MC46423-6.2	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-6.2	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-6.3	Walk In Ref #22	Ilir Capi	06/27/16 14:35	Retrieve from Storage
MC46423-6.4	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-7.1	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-7.1	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-7.1	GCWX	Daniel Freedman	06/20/16 14:16	Unload from Instrument
MC46423-7.1	Daniel Freedman	VOC Ref #5	06/20/16 14:16	Return to Storage
MC46423-7.2	VOC Ref #5	Anthony Franciosa	06/20/16 08:02	Retrieve from Storage
MC46423-7.2	Anthony Franciosa	GCWX	06/20/16 08:02	Load on Instrument
MC46423-7.2	GCWX	Anthony Franciosa	06/21/16 08:34	Unload from Instrument
MC46423-7.2	Anthony Franciosa	VOC Ref #5	06/21/16 08:34	Return to Storage
MC46423-7.3	Walk In Ref #22	Ilir Capi	06/17/16 14:28	Retrieve from Storage
MC46423-7.4	Walk In Ref #22	Ilir Capi	06/27/16 14:35	Retrieve from Storage
MC46423-7.5	VOC Ref #5	Anthony Franciosa	06/20/16 13:35	Retrieve from Storage
MC46423-7.5	Anthony Franciosa	GCWX	06/20/16 13:35	Load on Instrument
MC46423-7.5	GCWX	Anthony Franciosa	06/21/16 08:34	Unload from Instrument

SGS Accutest Internal Chain of Custody

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Received: 06/17/16

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
MC46423-7.5	Anthony Franciosa	VOC Ref #5	06/21/16 08:34	Return to Storage

GC Volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Job Number: MC46423
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
GWX3796-MB	WX77169.D	1	06/20/16	AF	n/a	n/a	GWX3796

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

MC46423-1, MC46423-2, MC46423-3, MC46423-4, MC46423-5, MC46423-6, MC46423-7

CAS No.	Compound	Result	RL	MDL	Units	Q
	C5- C8 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C12 Aliphatics (Unadj.)	ND	50	25	ug/l	
	C9- C10 Aromatics (Unadj.)	ND	50	25	ug/l	
	C5- C8 Aliphatics	ND	50	25	ug/l	
	C9- C12 Aliphatics	ND	50	25	ug/l	

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

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC46423
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
GWX3796-BSP	WX77170.D	1	06/20/16	AF	n/a	n/a	GWX3796
GWX3796-BSD	WX77171.D	1	06/20/16	AF	n/a	n/a	GWX3796

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

MC46423-1, MC46423-2, MC46423-3, MC46423-4, MC46423-5, MC46423-6, MC46423-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C5- C8 Aliphatics (Unadj.)	150	145	97	145	97	0	70-130/25
	C9- C12 Aliphatics (Unadj.)	150	108	72	113	75	5	70-130/25
	C9- C10 Aromatics (Unadj.)	50	45.8	92	46.9	94	2	70-130/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
	2,3,4-Trifluorotoluene	90%	92%	70-130%
	2,3,4-Trifluorotoluene	92%	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: MC46423
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
MC46423-7MS	WX77183.D	1	06/20/16	AF	n/a	n/a	GWX3796
MC46423-7MSD	WX77184.D	1	06/20/16	AF	n/a	n/a	GWX3796
MC46423-7	WX77182.D	1	06/20/16	AF	n/a	n/a	GWX3796

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

MC46423-1, MC46423-2, MC46423-3, MC46423-4, MC46423-5, MC46423-6, MC46423-7

CAS No.	Compound	MC46423-7 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		300	320	107	300	325	109	2	70-130/25
	C9- C12 Aliphatics (Unadj.)	ND		450	400	100	450	396	99	1	70-130/25
	C9- C10 Aromatics (Unadj.)	ND		150	139	93	150	142	95	2	70-130/25

CAS No.	Surrogate Recoveries	MS	MSD	MC46423-7	Limits
	2,3,4-Trifluorotoluene	90%	93%	90%	70-130%
	2,3,4-Trifluorotoluene	94%	97%	94%	70-130%

* = Outside of Control Limits.

Volatile Surrogate Recovery Summary

Job Number: MC46423
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]
MC46423-1	WX77172.D	98	101
MC46423-2	WX77173.D	94	96
MC46423-3	WX77180.D	90	94
MC46423-3	WX77174.D	106	108
MC46423-4	WX77179.D	91	94
MC46423-5	WX77176.D	90	93
MC46423-6	WX77181.D	91	95
MC46423-6	WX77177.D	93	96
MC46423-7	WX77182.D	90	94
GWX3796-BSD	WX77171.D	92	95
GWX3796-BSP	WX77170.D	90	92
GWX3796-MB	WX77169.D	90	93
MC46423-7MS	WX77183.D	90	94
MC46423-7MSD	WX77184.D	93	97

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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GWX3796-CC3782	**Injection Date:**	06/20/16
Lab File ID:	WX77168.D	**Injection Time:**	07:19
Instrument ID:	GCWX	**Method:**	MADEP VPH REV 1.1

	S1 [a] RT	S1 [b] RT
Check Std	19.88	19.88

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S1 [b] RT
GWX3796-MB	WX77169.D	06/20/16	07:56	19.88	19.89
GWX3796-BSP	WX77170.D	06/20/16	08:33	19.88	19.88
GWX3796-BSD	WX77171.D	06/20/16	09:10	19.85	19.85
MC46423-1	WX77172.D	06/20/16	09:52	19.88	19.88
MC46423-2	WX77173.D	06/20/16	10:30	19.88	19.88
MC46423-3	WX77174.D	06/20/16	11:07	19.89	19.89
MC46423-5	WX77176.D	06/20/16	12:21	19.88	19.88
MC46423-6	WX77177.D	06/20/16	12:58	19.88	19.88
MC46423-4	WX77179.D	06/20/16	14:12	19.88	19.88
MC46423-3	WX77180.D	06/20/16	14:49	19.88	19.88
MC46423-6	WX77181.D	06/20/16	15:27	19.88	19.88
MC46423-7	WX77182.D	06/20/16	16:03	19.88	19.88
MC46423-7MS	WX77183.D	06/20/16	16:40	19.87	19.87
MC46423-7MSD	WX77184.D	06/20/16	17:17	19.86	19.86

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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3782-ICC3782
Lab FileID: WX77020.D

Response Factor Report GCWX

Method : C:\msdchem\1\METHODS\wx160602vph.M (Chemstation Integrator)
Title : vph
Last Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7					2.366				2.366	2.366 E4	0.00
2) rt7/10					2.366				2.366	2.366 E4	0.00
3) rt10/13					2.366				2.366	2.366 E4	0.00
4) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
5) rt13/16										0.000	-1.00
6) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
7) rt16/20										0.000	-1.00
8) rt20/25					3.584				3.584	3.584 E4	0.00
9) rt25/29										0.000	-1.00
10) Decane					3.584				3.584	3.584 E4	0.00
11) Butylcyclohexane					3.584				3.584	3.584 E4	0.00
12) 2,5-dibromotoluene										0.000	-1.00
Signal #2											
14) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
15) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
16) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
17) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
18) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
19) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
20) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
21) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
22) 1,3,5-trimethylbenzene #2	1.905	1.792	1.737	1.748	1.703	1.688	1.644	1.624	1.500	1.704 E4	6.66

Initial Calibration Summary

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GWX3782-ICC3782
Lab FileID: WX77020.D

```
23)  1,2,4-trimethylbenzene #2
           1.431 1.322 1.292 1.289 1.254 1.250 1.222 1.209 1.112   1.265 E4    6.90
24)  naphthalene #2
           0.683 0.782 0.889 0.976 1.061 1.060 1.006 0.876 0.683   0.891 E4   16.68
25)  c9-c10 arom as 1,2,4-tmb
           1.432 1.323 1.289 1.288 1.253 1.249 1.221 1.209 1.112   1.264 E4    6.93
26)  2,5-dibromotoluene #2
                                                                   0.000   -1.00
-------------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          wx160602vph.M        Thu Jun 02 13:49:51 2016
```

6.6.1

6

Initial Calibration Verification

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GWX3782-ICV3782
Lab FileID: WX77025.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	20.776 E3	12.2	88	0.00
2	h	rt7/10	23.663	27.030 E3	-14.2	114	0.00
3	h	rt10/13	23.663	20.710 E3	12.5	88	0.00
4	s	fluorobenzene	28.259	27.560 E3	2.5	98	0.00
6	s	2,3,4-trifluorotoluene	22.916	21.862 E3	4.6	96	0.00
8	h	rt20/25	35.842	29.458 E3	17.8	82	0.00
10	h	Decane	35.842	28.589 E3	20.2	80	0.00
11	h	Butylcyclohexane	35.842	31.623 E3	11.8	88	0.00
Signal #2							
14		mtbe #2	4.363	4.222 E3	3.2	95	-0.05
15		benzene #2	14.206	13.579 E3	4.4	96	0.00
16	s	fluorobenzene #2	9.117	8.709 E3	4.5	96	0.00
17		toluene #2	12.865	12.359 E3	3.9	96	0.00
18	s	2,3,4-trifluorotoluene #2	5.462	5.035 E3	7.8	95	0.01
19		ethylbenzene #2	11.447	10.945 E3	4.4	96	0.00
20		m,p-xylene #2	13.817	13.270 E3	4.0	96	0.00
21		o-xylene #2	11.615	11.207 E3	3.5	96	0.00
22	t	1,3,5-trimethylbenzene #2	17.045	16.442 E3	3.5	97	0.00
23		1,2,4-trimethylbenzene #2	12.645	12.100 E3	4.3	97	0.00
24		naphthalene #2	8.908	9.907 E3	-11.2	93	0.00
25	h	c9-c10 arom as 1,2,4-tmb	12.640	12.085 E3	4.4	96	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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3782-ICV3782
Lab FileID: WX77025.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

wx160602vph.M Fri Jun 03 12:26:41 2016
```

Continuing Calibration Summary

Job Number: MC46423 **Sample:** GWX3796-CC3782
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** WX77168.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77168.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 20 Jun 2016   7:19 am
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 07:53:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	21.270 E3	10.1	90	0.00
2	h	rt7/10	23.663	27.390 E3	-15.8	116	0.00
3	h	rt10/13	23.663	21.808 E3	7.8	92	0.00
4	s	fluorobenzene	28.259	29.321 E3	-3.8	105	0.00
6	s	2,3,4-trifluorotoluene	22.916	23.557 E3	-2.8	104	0.00
8	h	rt20/25	35.842	29.730 E3	17.1	83	0.00
10	h	Decane	35.842	29.071 E3	18.9	81	0.00
11	h	Butylcyclohexane	35.842	32.284 E3	9.9	90	0.00
Signal #2							
14		mtbe #2	4.363	4.343 E3	0.5	98	-0.05
15		benzene #2	14.206	13.619 E3	4.1	97	0.00
16	s	fluorobenzene #2	9.117	9.241 E3	-1.4	102	0.00
17		toluene #2	12.865	12.500 E3	2.8	97	0.00
18	s	2,3,4-trifluorotoluene #2	5.462	5.419 E3	0.8	102	0.01
19		ethylbenzene #2	11.447	11.061 E3	3.4	97	0.00
20		m,p-xylene #2	13.817	13.597 E3	1.6	98	0.00
21		o-xylene #2	11.615	11.401 E3	1.8	98	0.00
22	t	1,3,5-trimethylbenzene #2	17.045	16.791 E3	1.5	99	0.00
23		1,2,4-trimethylbenzene #2	12.645	12.356 E3	2.3	99	0.00
24		naphthalene #2	8.908	10.698 E3	-20.1	101	0.00
25	h	c9-c10 arom as 1,2,4-tmb	12.640	12.324 E3	2.5	98	0.00

Evaluate Continuing Calibration Report - Not Founds

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

Continuing Calibration Summary

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3796-CC3782
Lab FileID: WX77168.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

wx160620vph.M Mon Jun 20 13:55:40 2016
```

Continuing Calibration Summary

Job Number: MC46423 **Sample:** GWX3796-CC3782
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** WX77186.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77186.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 21 Jun 2016   7:11 am
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 08:27:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise 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	23.663	18.875 E3	20.2	80	0.00
2	h	rt7/10	23.663	25.858 E3	-9.3	109	0.00
3	h	rt10/13	23.663	20.052 E3	15.3	85	0.00
4	s	fluorobenzene	28.259	29.328 E3	-3.8	105	0.01
6	s	2,3,4-trifluorotoluene	22.916	23.972 E3	-4.6	106	0.00
8	h	rt20/25	35.842	29.436 E3	17.9	82	0.00
10	h	Decane	35.842	28.264 E3	21.1	79	0.00
11	h	Butylcyclohexane	35.842	31.620 E3	11.8	88	0.00
Signal #2							
14		mtbe #2	4.363	4.221 E3	3.3	95	-0.04
15		benzene #2	14.206	13.639 E3	4.0	97	0.00
16	s	fluorobenzene #2	9.117	9.264 E3	-1.6	103	0.00
17		toluene #2	12.865	12.556 E3	2.4	98	0.00
18	s	2,3,4-trifluorotoluene #2	5.462	5.340 E3	2.2	101	0.02
19		ethylbenzene #2	11.447	11.030 E3	3.6	97	0.00
20		m,p-xylene #2	13.817	13.495 E3	2.3	97	0.00
21		o-xylene #2	11.615	11.255 E3	3.1	97	0.00
22	t	1,3,5-trimethylbenzene #2	17.045	16.609 E3	2.6	98	0.00
23		1,2,4-trimethylbenzene #2	12.645	12.199 E3	3.5	97	0.00
24		naphthalene #2	8.908	10.242 E3	-15.0	97	0.00
25	h	c9-c10 arom as 1,2,4-tmb	12.640	12.182 E3	3.6	97	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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GWX3796-CC3782
Lab FileID: WX77186.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

wx160620vph.M Tue Jun 21 08:27:32 2016
```

GC Volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:52 am
Operator : tonyf
Sample : mc46423-1,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:36:41 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.751	1322385	46.794 ppb
Spiked Amount 50.000		Recovery =	93.59%
6) s 2,3,4-trifluorotoluene	19.884	1151916	50.268 ppb
Spiked Amount 50.000		Recovery =	100.54%
16) s fluorobenzene #2	14.748	420819	46.156 ppb
Spiked Amount 50.000		Recovery =	92.31%
18) s 2,3,4-trifluorotoluen...	19.884	268811	49.217 ppb
Spiked Amount 50.000		Recovery =	98.43%
Target Compounds			
1) h rt5.5-7	6.100	83753	3.539 ppb
2) h rt7/10	8.370	273007	11.537 ppb
3) h rt10/13	13.510	373909	15.802 ppb
8) h rt20/25	21.600	2590621	72.279 ppb
14) mtbe #2	9.116f	44236	10.139 ppb
20) m,p-xylene #2	22.052	8802	0.637 ppb
21) o-xylene #2	22.796	3799	0.327 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	632026	50.002 ppb

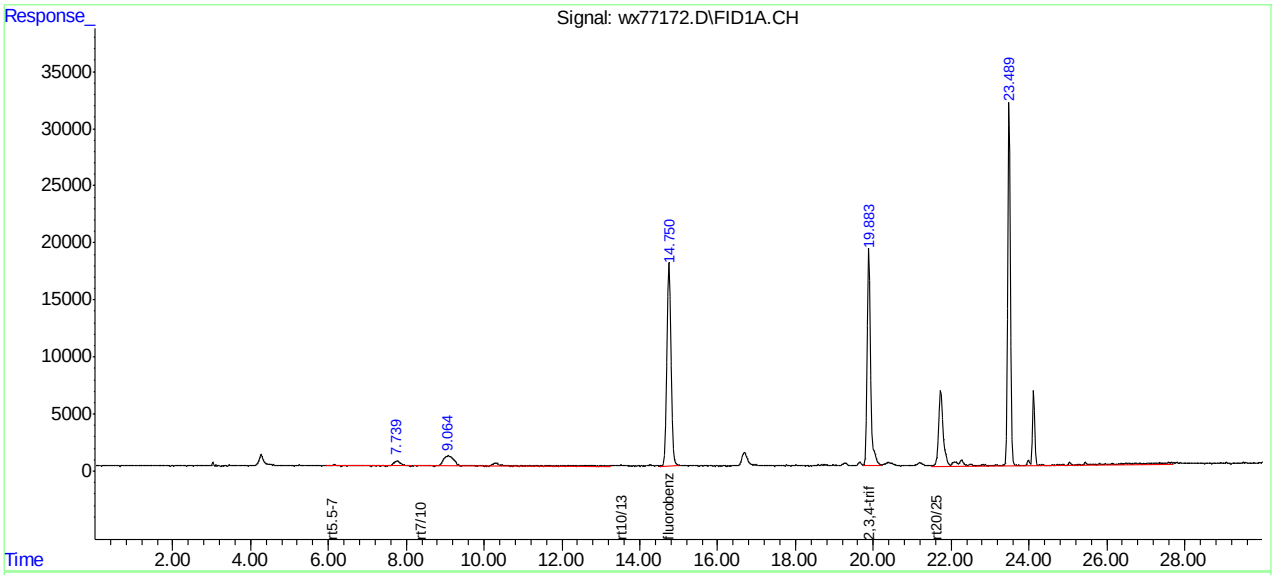
(f)=RT Delta > 1/2 Window (m)=manual int.

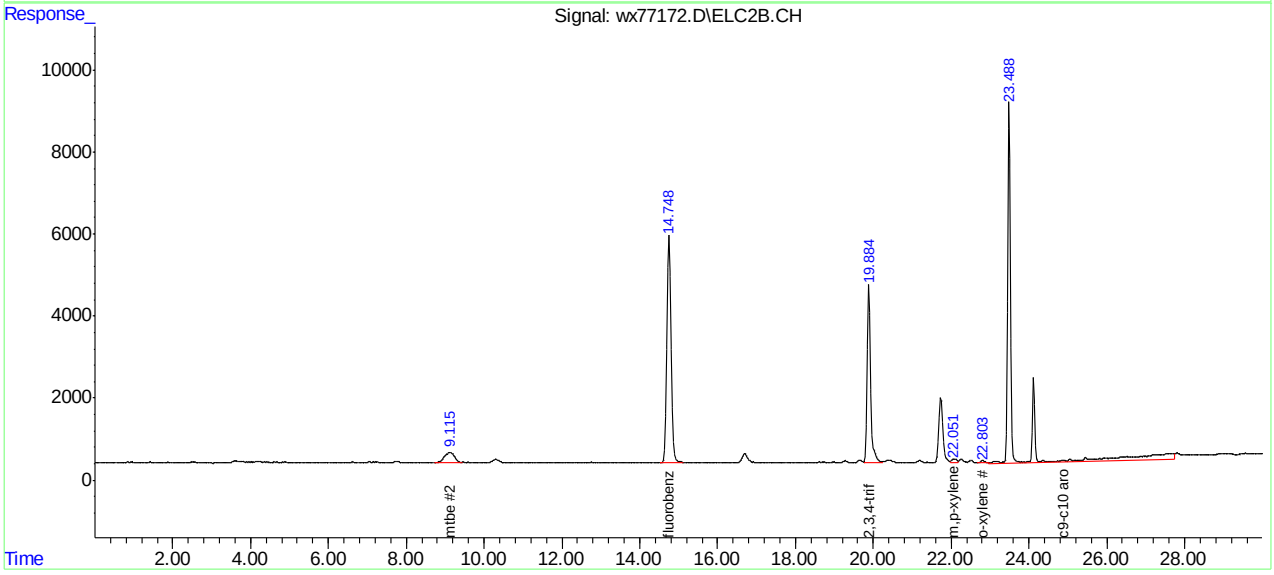
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:52 am
Operator : tonyf
Sample : mc46423-1,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

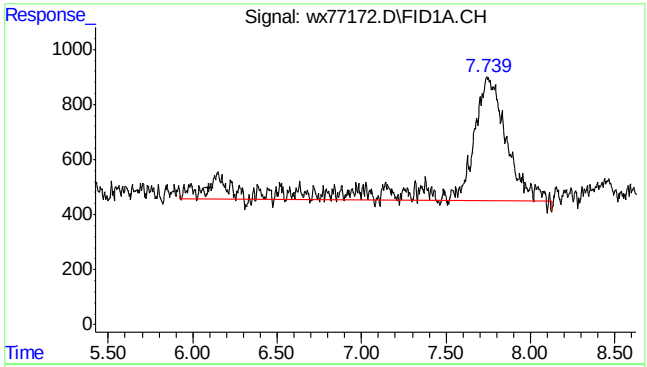
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:36:41 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



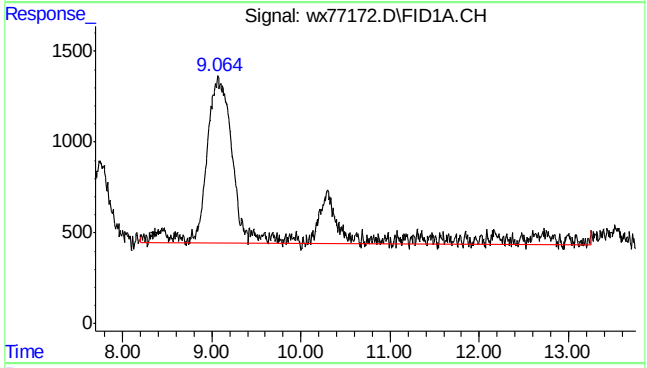


wx160620vph.M Mon Jun 20 13:56:30 2016 Page: 2



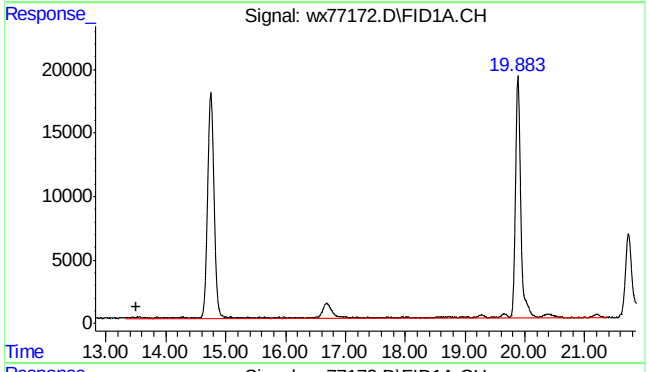
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 83753
Conc: 3.54 ppb m



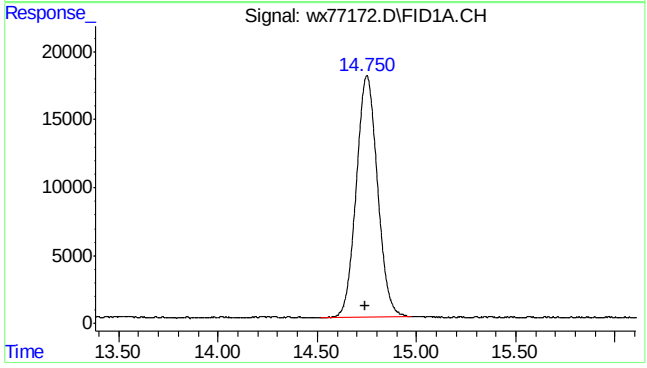
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 273007
Conc: 11.54 ppb m



#3 rt10/13

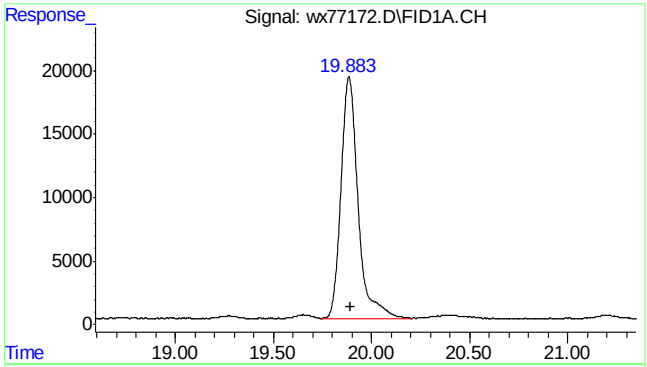
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 373909
Conc: 15.80 ppb m



#4 fluorobenzene

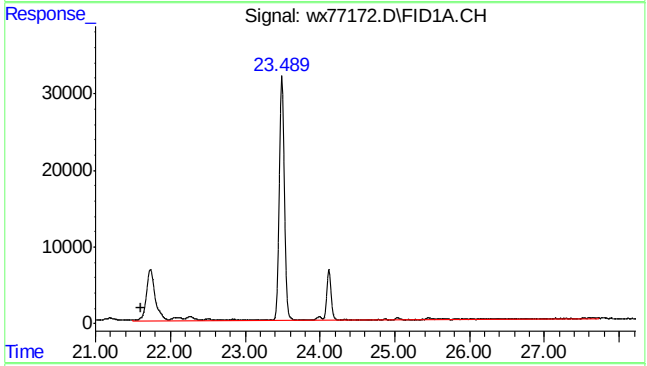
R.T.: 14.751 min
Delta R.T.: 0.012 min
Response: 1322385
Conc: 46.79 ppb

SGS ACCUTEST MC46423



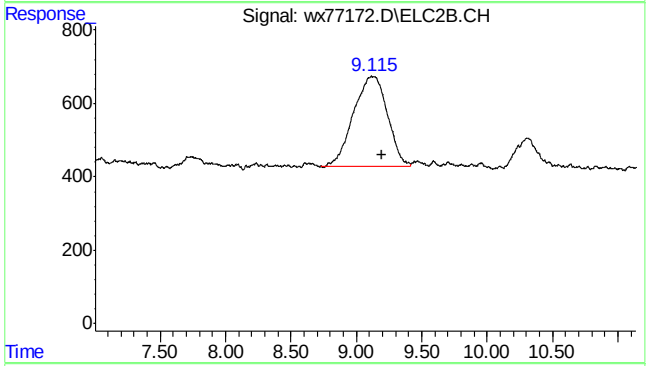
#6 2,3,4-trifluorotoluene

R.T.: 19.884 min
Delta R.T.: -0.006 min
Response: 1151916
Conc: 50.27 ppb



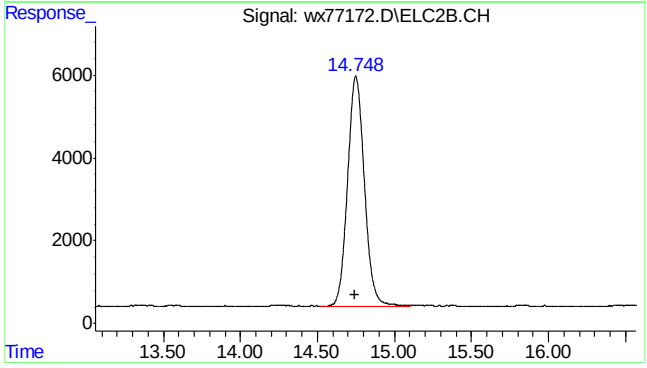
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 2590621
Conc: 72.28 ppb m



#14 mtbe #2

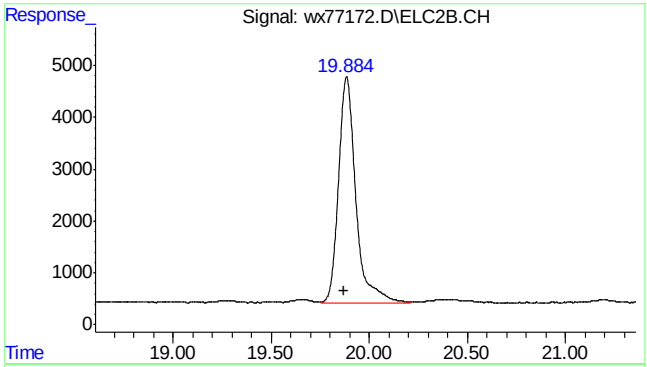
R.T.: 9.116 min
Delta R.T.: -0.075 min
Response: 44236
Conc: 10.14 ppb



#16 fluorobenzene #2

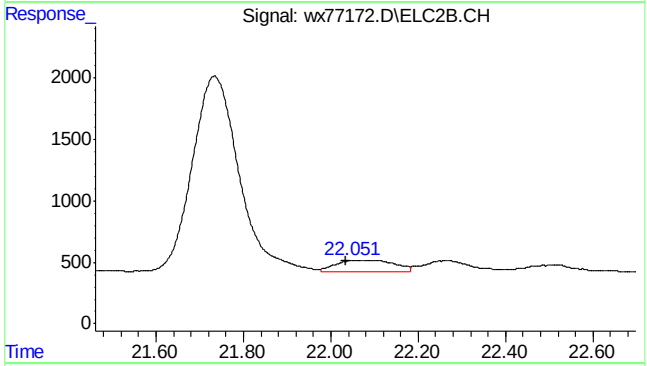
R.T.: 14.748 min
Delta R.T.: 0.004 min
Response: 420819
Conc: 46.16 ppb

SGS ACCUTEST MC46423



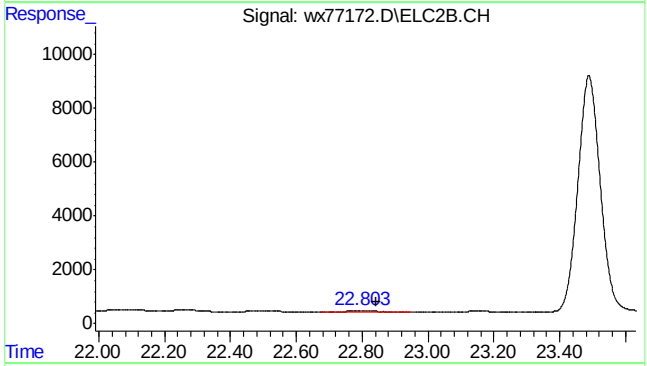
#18 2,3,4-trifluorotoluene #2

R.T.: 19.884 min
Delta R.T.: 0.015 min
Response: 268811
Conc: 49.22 ppb



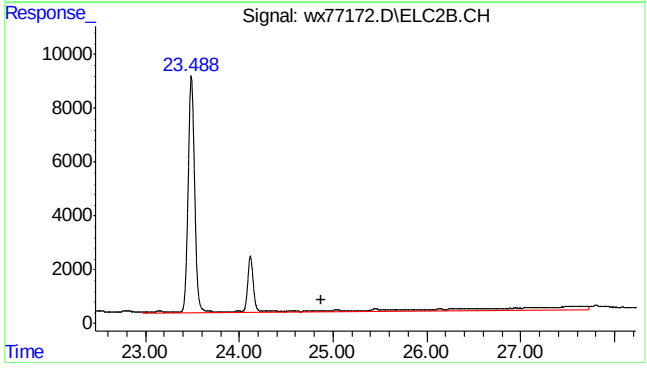
#20 m,p-xylene #2

R.T.: 22.052 min
Delta R.T.: 0.018 min
Response: 8802
Conc: 0.64 ppb



#21 o-xylene #2

R.T.: 22.796 min
Delta R.T.: -0.047 min
Response: 3799
Conc: 0.33 ppb



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 632026
Conc: 50.00 ppb m

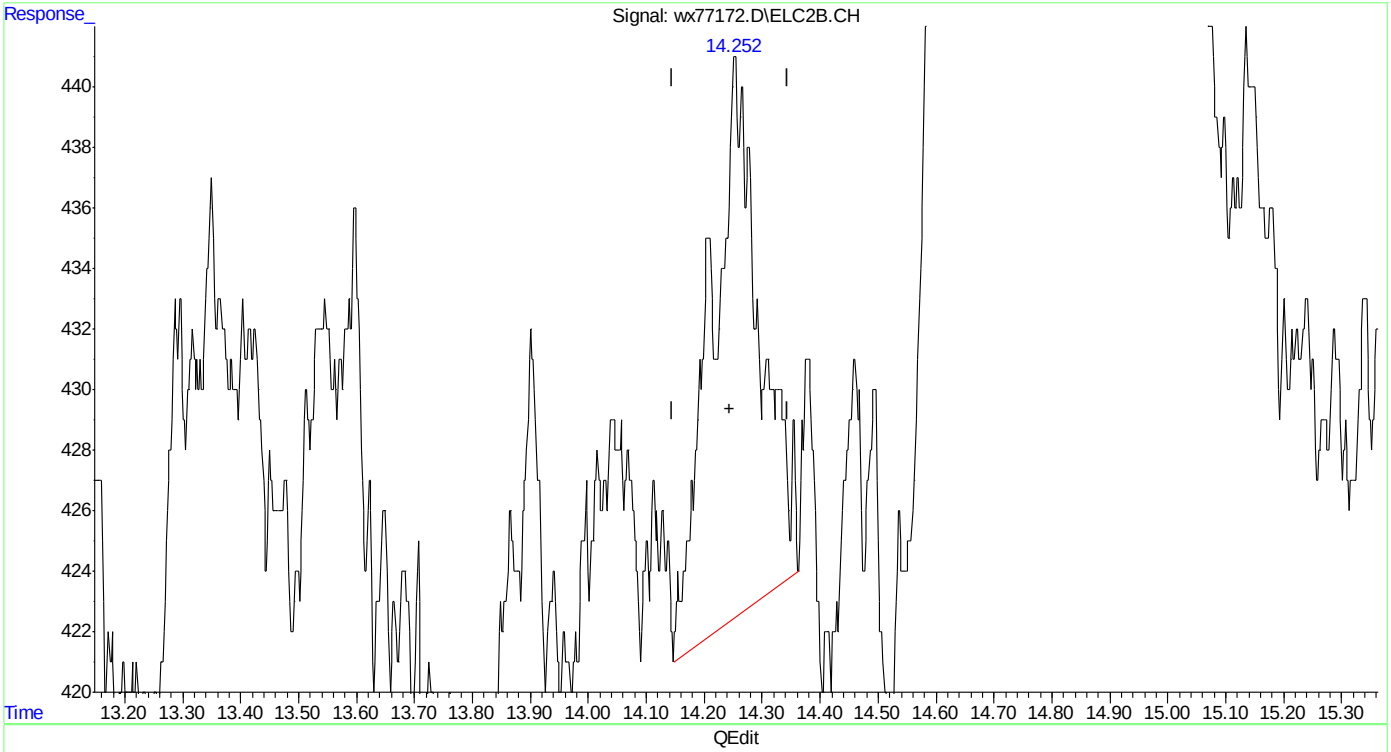
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:52 am
Operator : tonyf
Sample : mc46423-1,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:24:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.255min 0.076 ppb
response 1077

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 10:24:48 2016

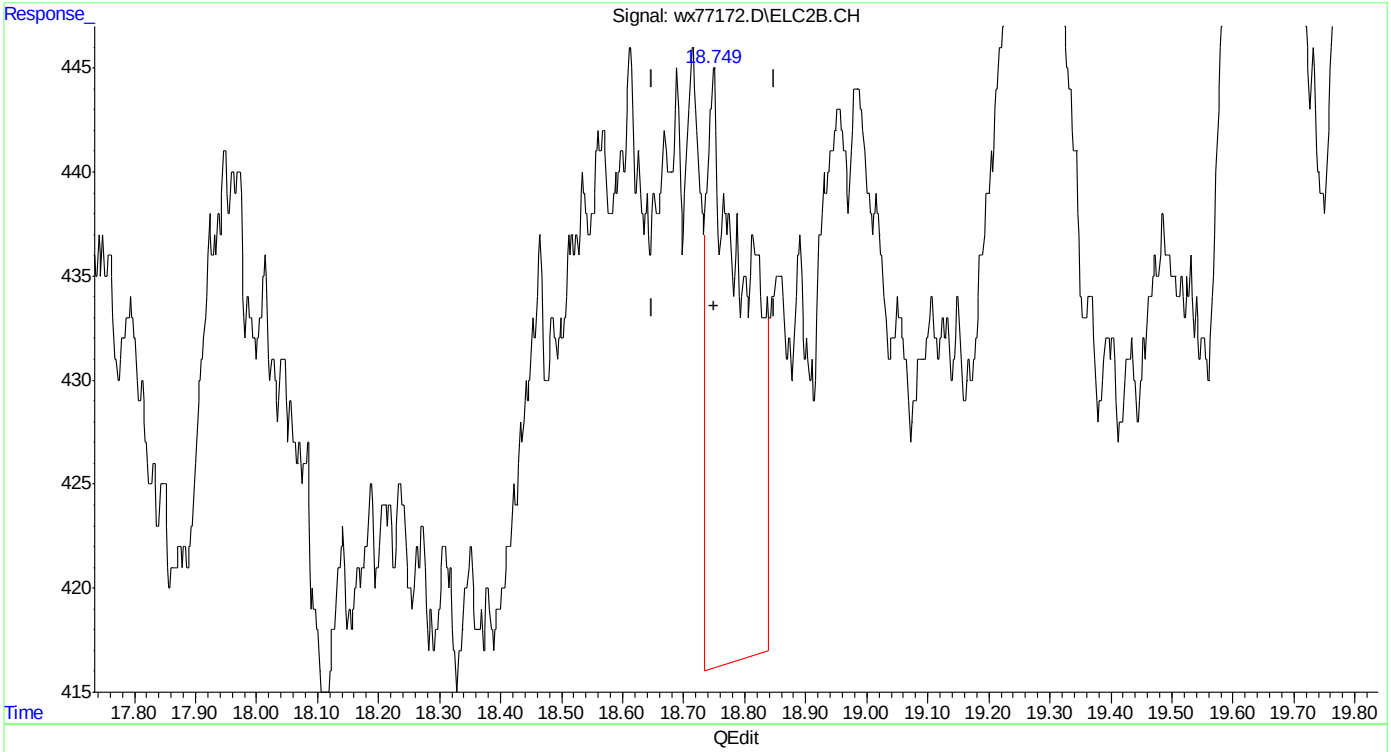
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:52 am
Operator : tonyf
Sample : mc46423-1,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:24:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.748min 0.100 ppb
response 1283

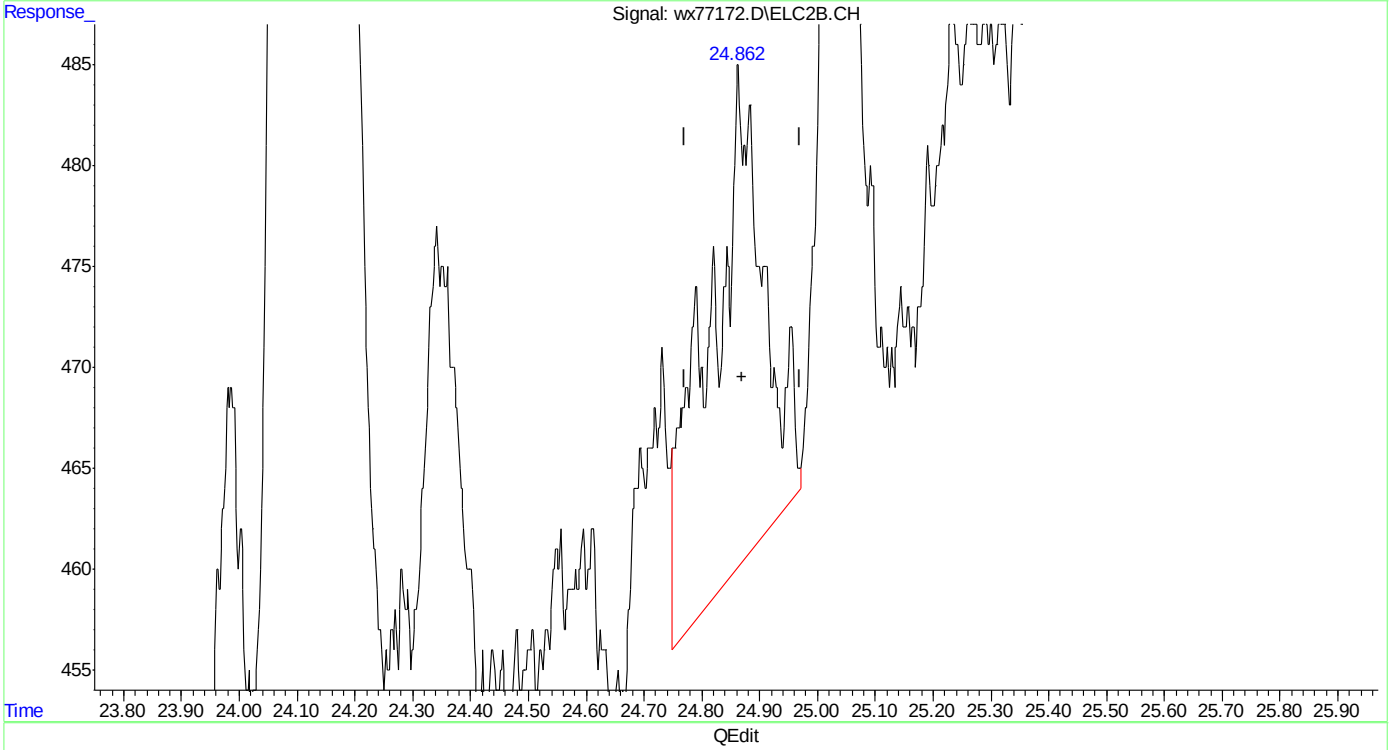
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 10:24:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:52 am
Operator : tonyf
Sample : mc46423-1,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:24:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.865min 0.131 ppb
response 1657

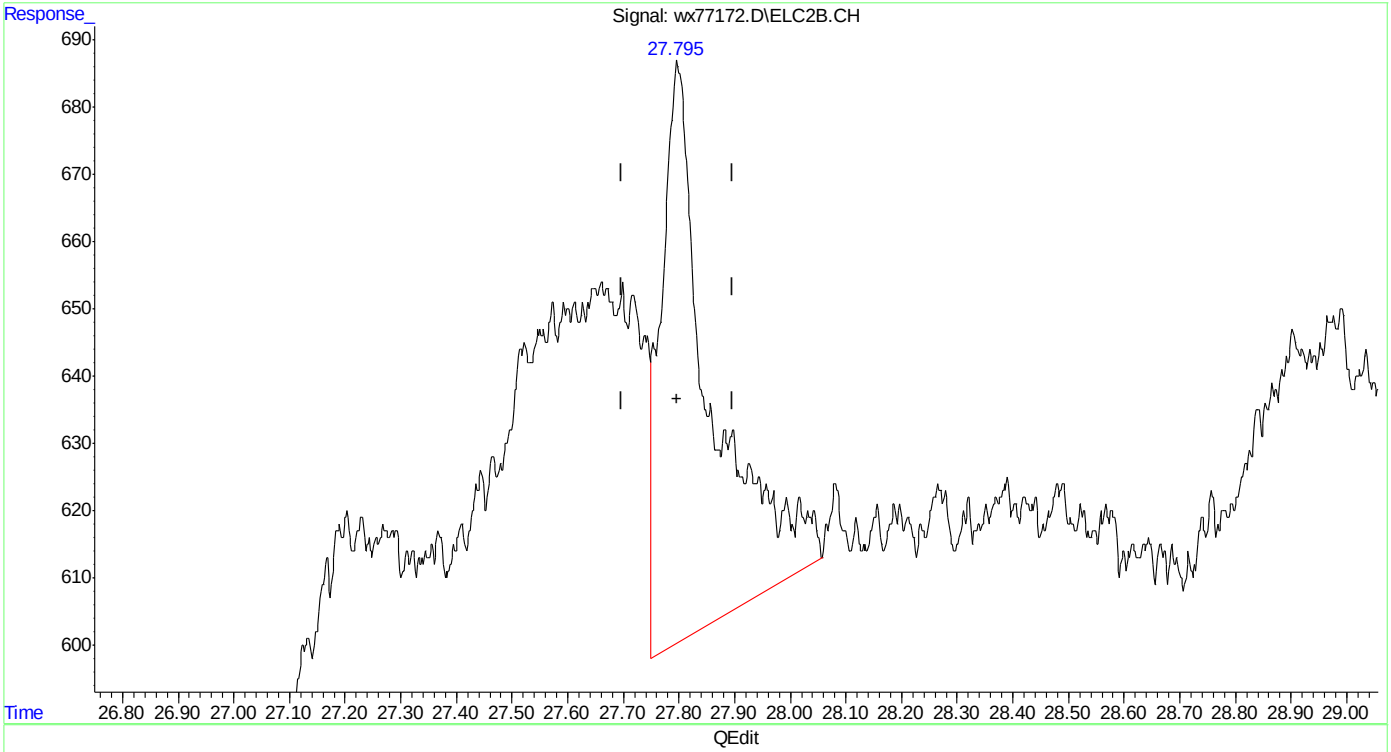
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77172.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 20 Jun 2016   9:52 am
Operator  : tonyf
Sample    : mc46423-1,w,vmavph,00
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 5   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 10:24:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.798min 0.619 ppb

response 5514

(+) = Expected Retention Time

wx160620vph.M Mon Jun 20 10:25:14 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:05:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.744	1295095	45.829 ppb
Spiked Amount 50.000		Recovery =	91.66%
6) s 2,3,4-trifluorotoluene	19.883	1101544	48.070 ppb
Spiked Amount 50.000		Recovery =	96.14%
16) s fluorobenzene #2	14.745	415712	45.596 ppb
Spiked Amount 50.000		Recovery =	91.19%
18) s 2,3,4-trifluorotoluen...	19.883	255919	46.857 ppb
Spiked Amount 50.000		Recovery =	93.71%
Target Compounds			
1) h rt5.5-7	6.100	48033	2.030 ppb
2) h rt7/10	8.370	155738	6.582 ppb
3) h rt10/13	13.510	202463	8.556 ppb
8) h rt20/25	21.600	473643	13.215 ppb
14) mtbe #2	9.126f	24755	5.674 ppb m
20) m,p-xylene #2	22.093f	4310	0.312 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	148121	11.718 ppb

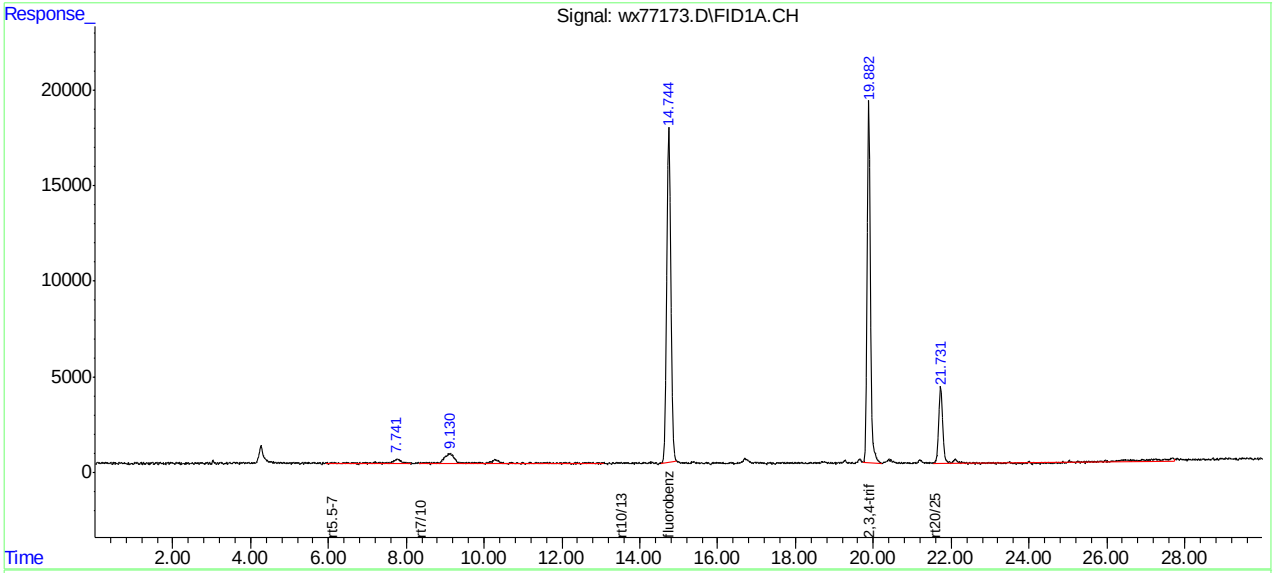
(f)=RT Delta > 1/2 Window (m)=manual int.

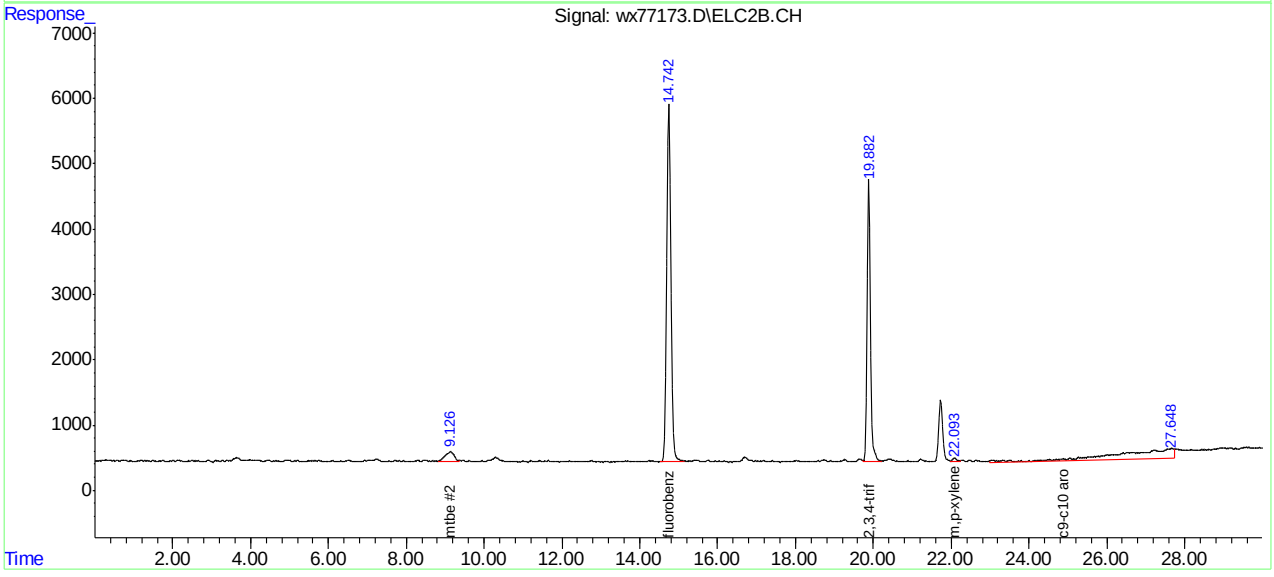
Quantitation Report (QT Reviewed)

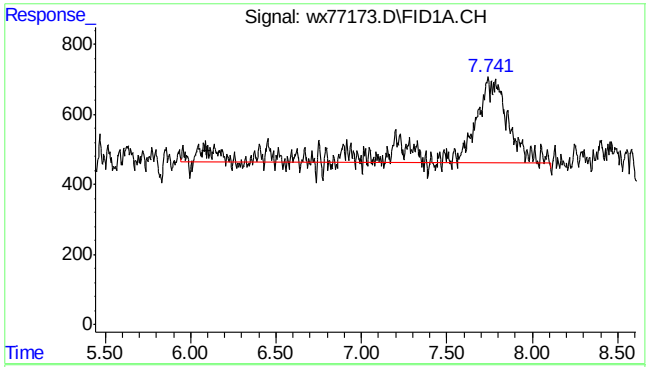
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:05:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

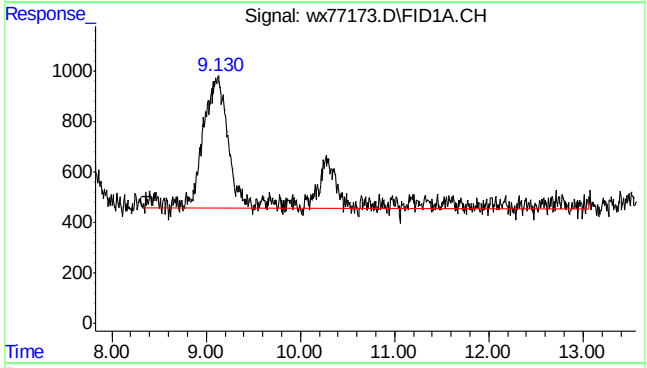






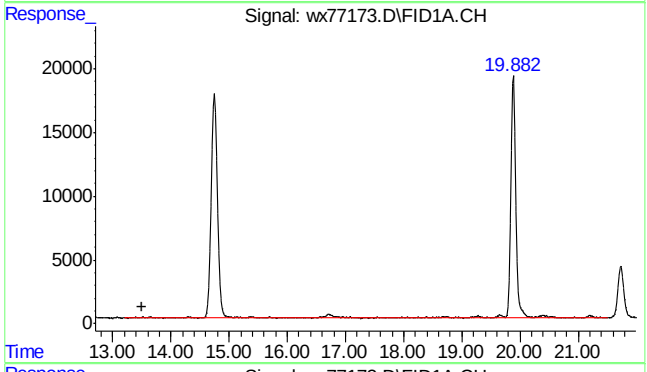
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 48033
Conc: 2.03 ppb m



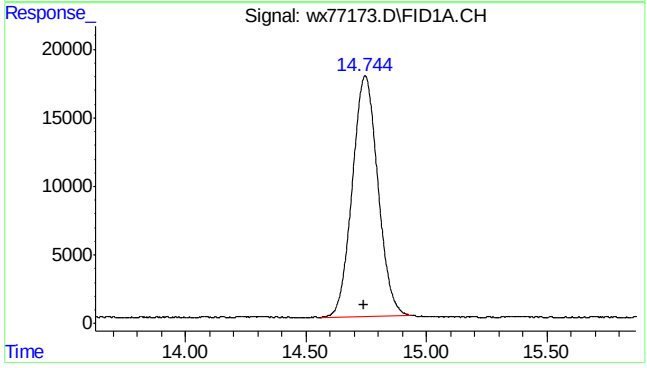
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 155738
Conc: 6.58 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 202463
Conc: 8.56 ppb m



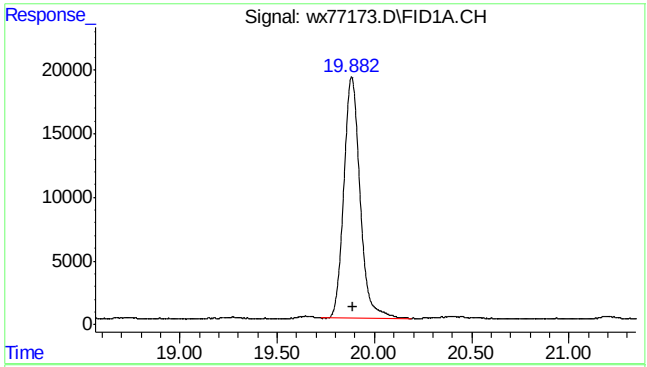
#4 fluorobenzene

R.T.: 14.744 min
Delta R.T.: 0.006 min
Response: 1295095
Conc: 45.83 ppb

7.1.2

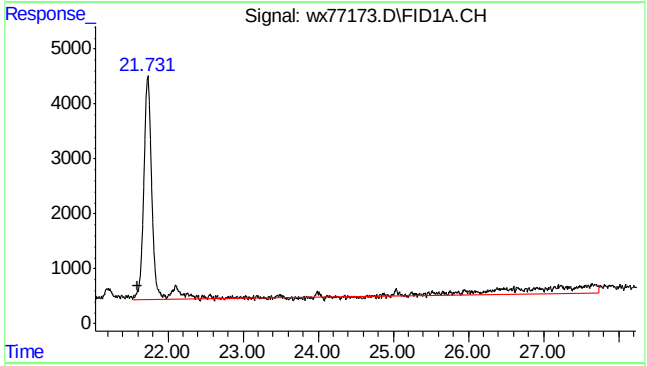
7

SGS ACCUTEST MC46423



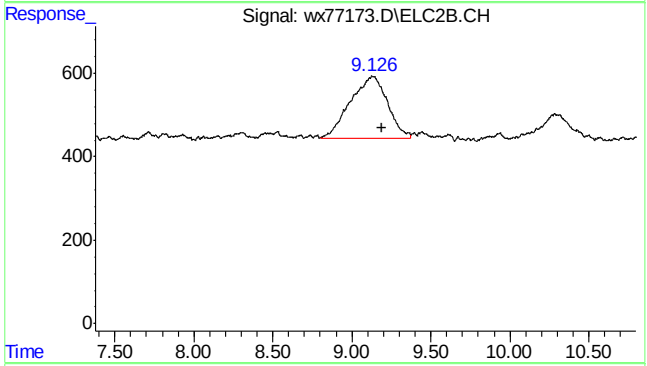
#6 2,3,4-trifluorotoluene

R.T.: 19.883 min
Delta R.T.: -0.007 min
Response: 1101544
Conc: 48.07 ppb



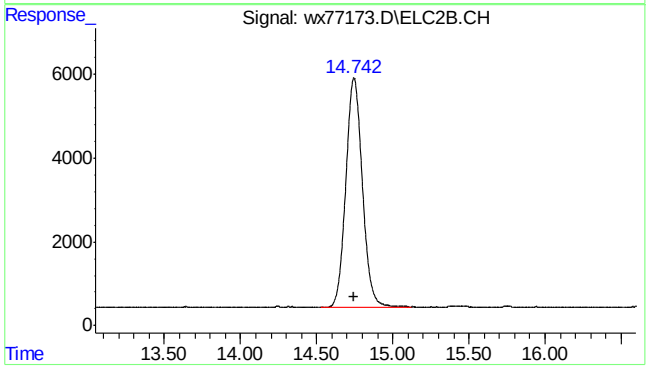
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 473643
Conc: 13.21 ppb m



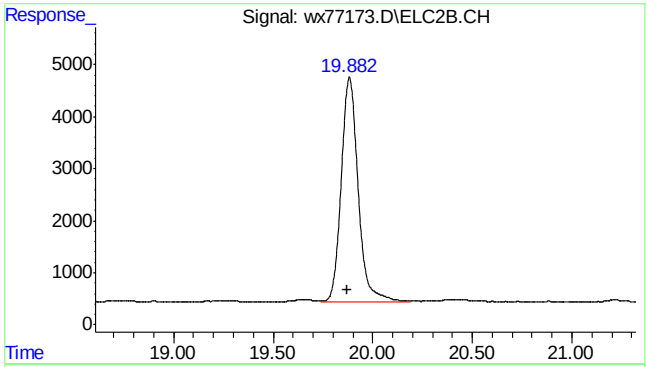
#14 mtbe #2

R.T.: 9.126 min
Delta R.T.: -0.066 min
Response: 24755
Conc: 5.67 ppb m



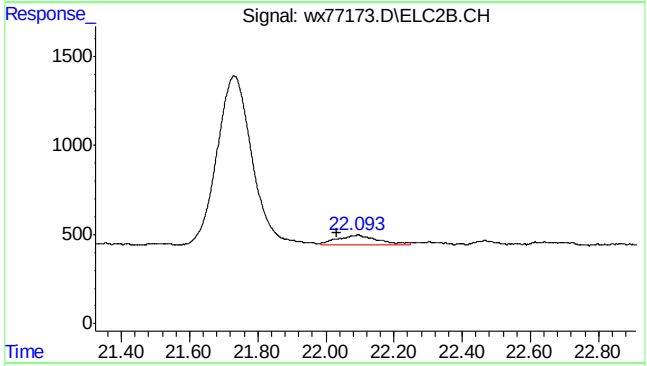
#16 fluorobenzene #2

R.T.: 14.745 min
Delta R.T.: 0.000 min
Response: 415712
Conc: 45.60 ppb



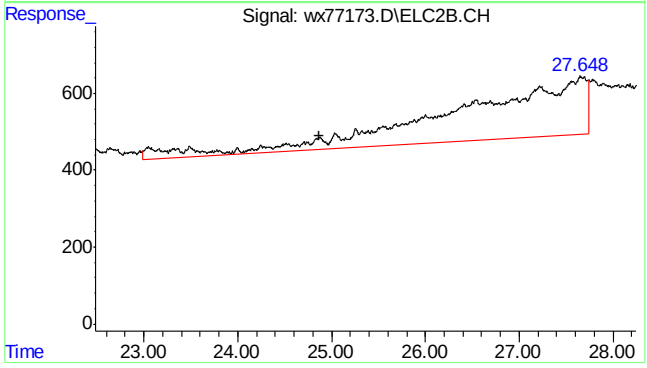
#18 2,3,4-trifluorotoluene #2

R.T.: 19.883 min
Delta R.T.: 0.014 min
Response: 255919
Conc: 46.86 ppb



#20 m,p-xylene #2

R.T.: 22.093 min
Delta R.T.: 0.059 min
Response: 4310
Conc: 0.31 ppb



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 148121
Conc: 11.72 ppb m

7.1.2

7

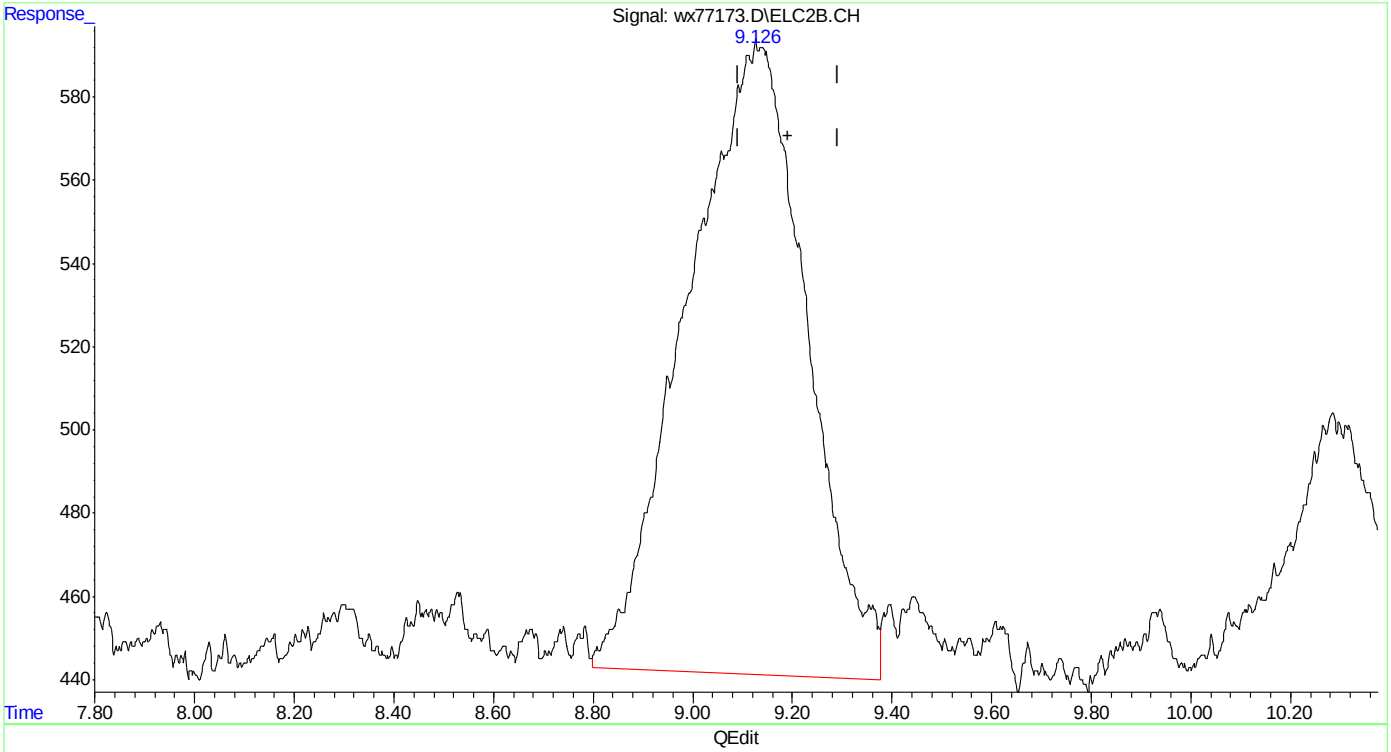
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:04:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.134min 5.804 ppb
response 25321

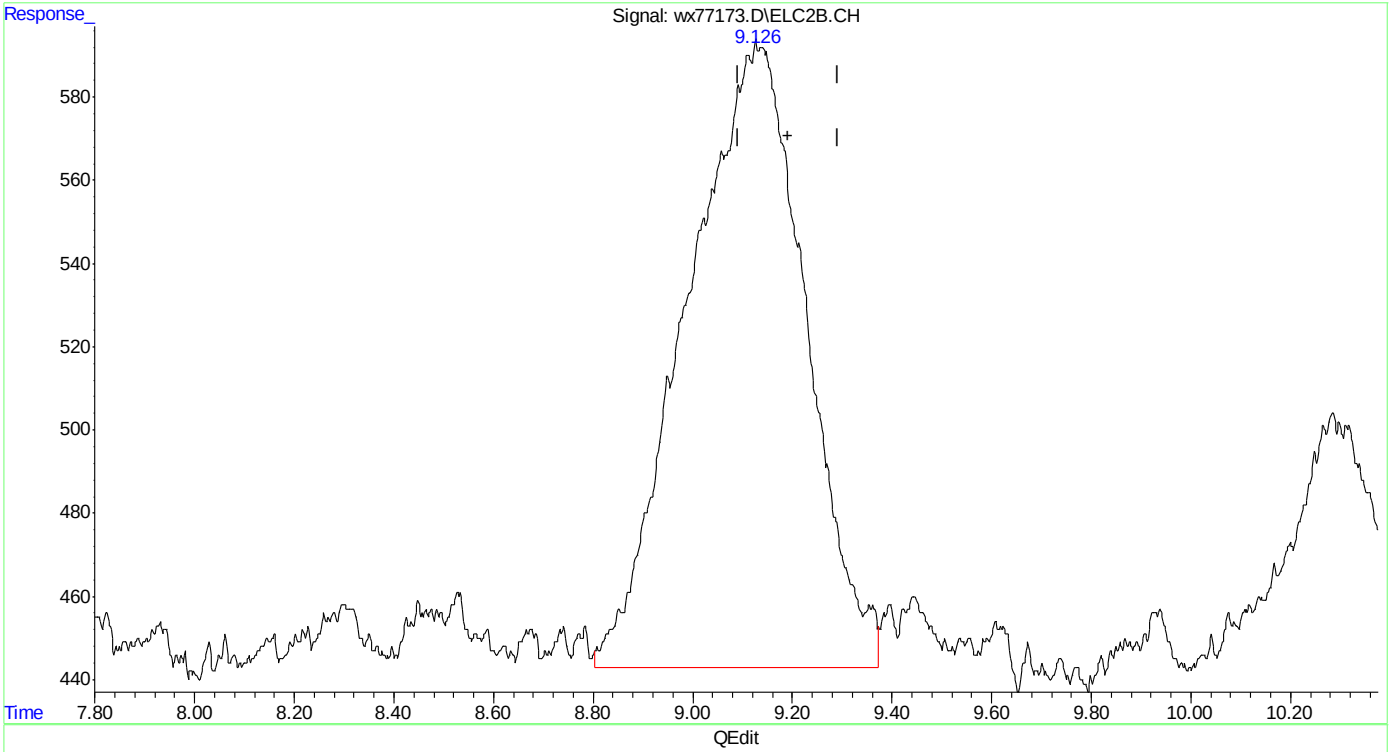
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:04:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:04:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.126min 5.674 ppb m
response 24755

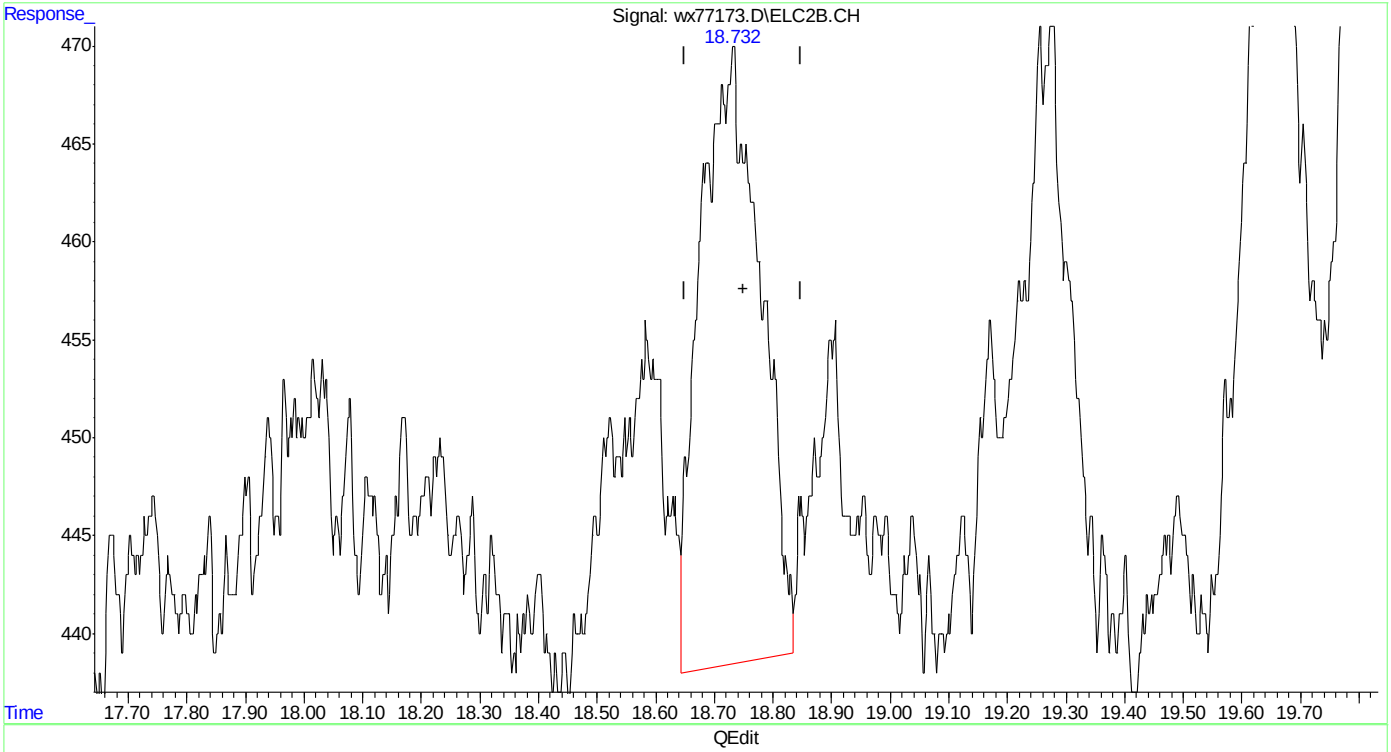
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:04:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:04:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.730min 0.171 ppb
response 2197

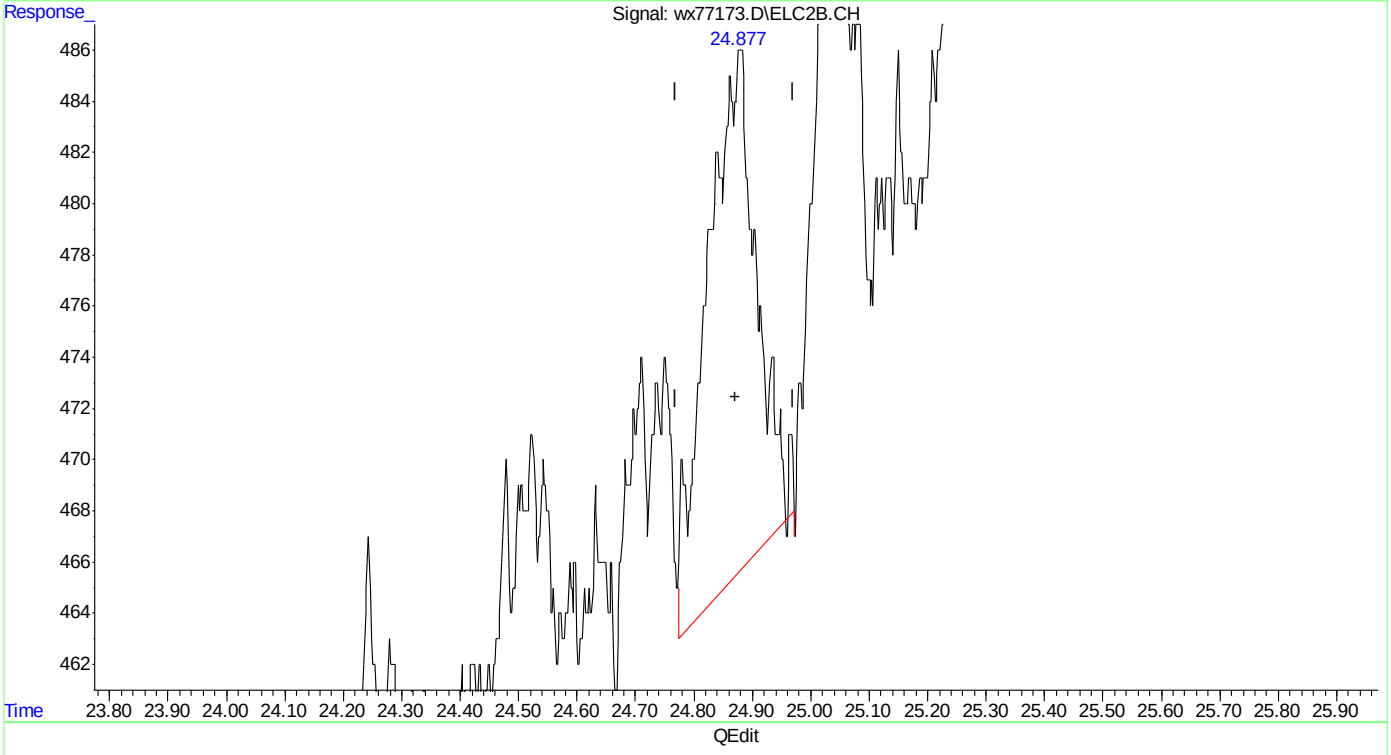
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:04:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77173.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 10:30 am
Operator : tonyf
Sample : mc46423-2,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:04:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.874min 0.097 ppb
response 1223

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77174.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 11:07 am
Operator : tonyf
Sample : mc46423-3,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:55:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.754	1414193	50.043 ppb
Spiked Amount 50.000		Recovery	= 100.09%
6) s 2,3,4-trifluorotoluene	19.892	1242384	54.216 ppb
Spiked Amount 50.000		Recovery	= 108.43%
16) s fluorobenzene #2	14.753	453099	49.696 ppb
Spiked Amount 50.000		Recovery	= 99.39%
18) s 2,3,4-trifluorotoluen...	19.891	288940	52.903 ppb
Spiked Amount 50.000		Recovery	= 105.81%
Target Compounds			
1) h rt5.5-7	6.100	24176	1.022 ppb
2) h rt7/10	8.370	39548	1.671 ppb
3) h rt10/13	13.510	3887879	164.303 ppb
8) h rt20/25	21.600	2500404443	69762.159 ppb
15) benzene #2	14.250	48867	3.440 ppb m
17) toluene #2	18.755	1240931	96.460 ppb
19) ethylbenzene #2	21.951f	142858530	12480.266 ppb
20) m,p-xylene #2	22.166f	321684361	23281.008 ppb m
21) o-xylene #2	22.867	30593660	2634.090 ppb
23) 1,2,4-trimethylbenzen...	24.875	15461	1.223 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1412289	111.731 ppb

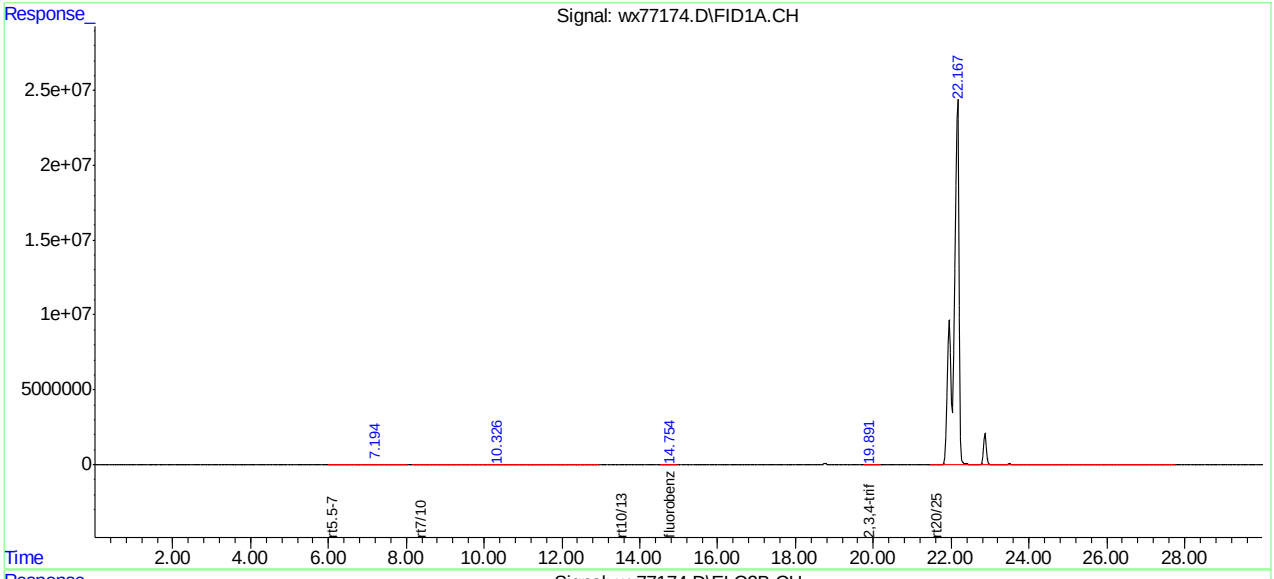
(f)=RT Delta > 1/2 Window (m)=manual int.

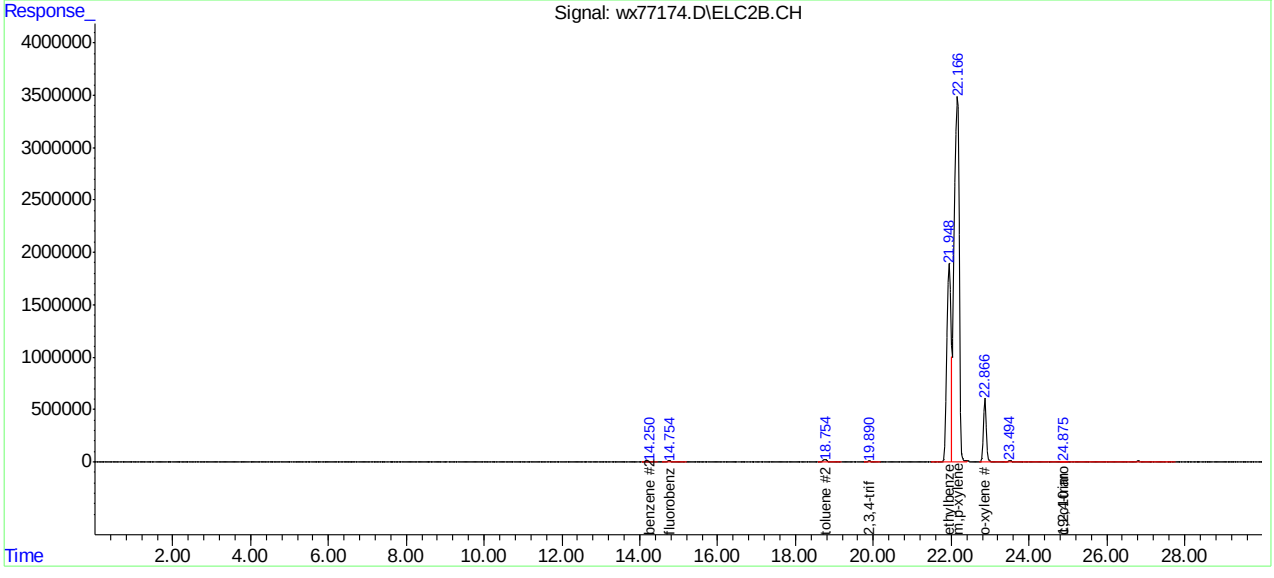
Quantitation Report (QT Reviewed)

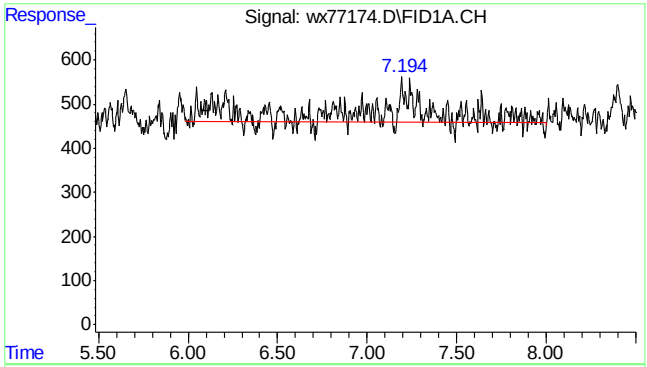
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77174.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 11:07 am
Operator : tonyf
Sample : mc46423-3,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:55:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

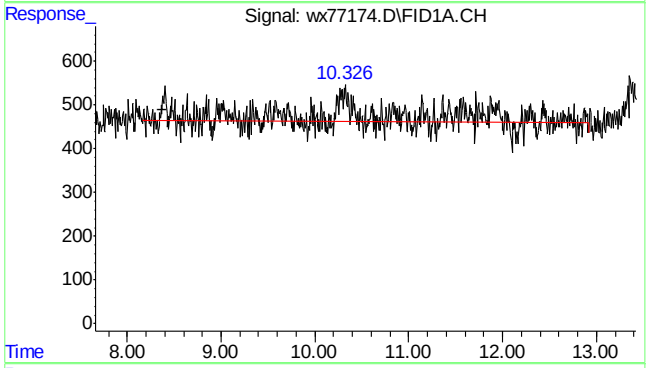






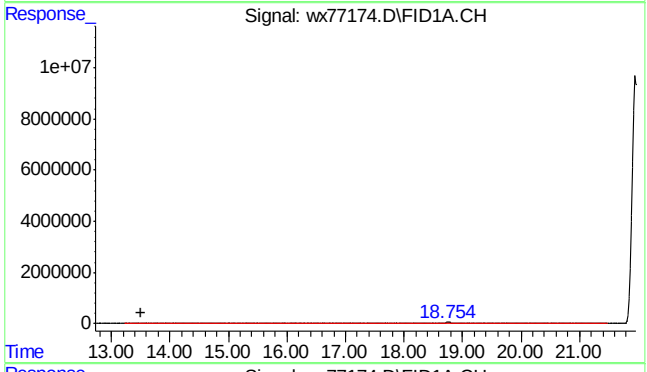
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 24176
Conc: 1.02 ppb m



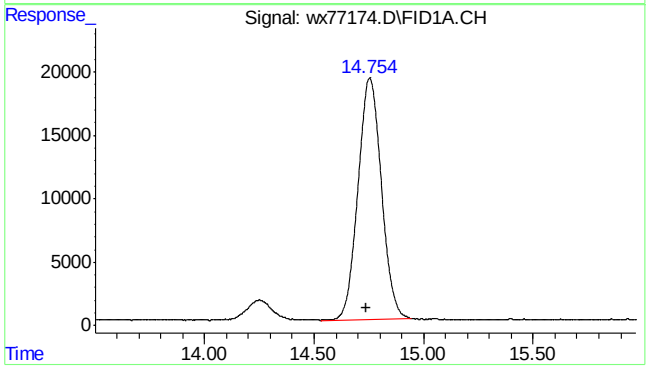
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 39548
Conc: 1.67 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 3887879
Conc: 164.30 ppb m



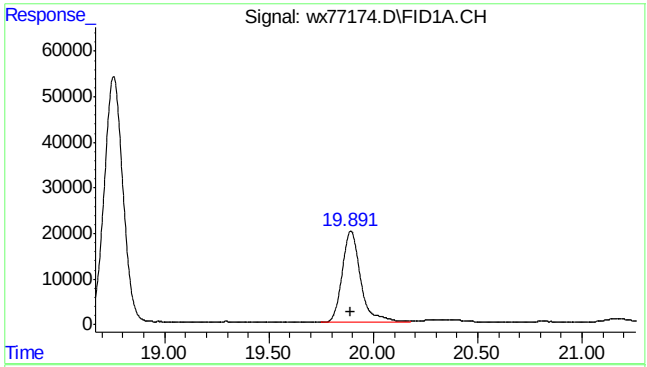
#4 fluorobenzene

R.T.: 14.754 min
Delta R.T.: 0.016 min
Response: 1414193
Conc: 50.04 ppb

7.1.3

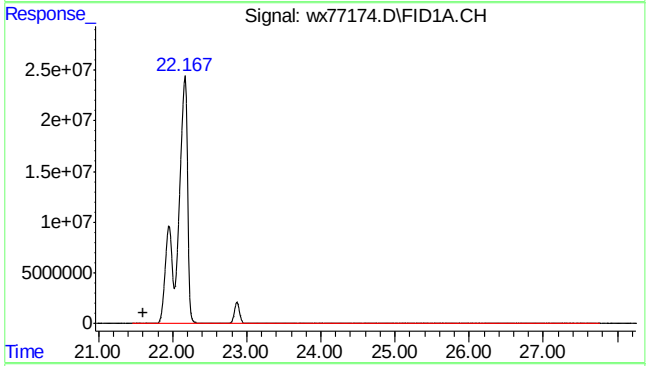
7

SGS ACCUTEST MC46423



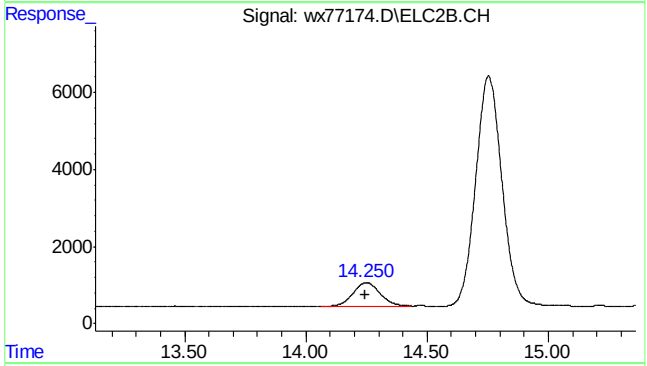
#6 2,3,4-trifluorotoluene

R.T.: 19.892 min
Delta R.T.: 0.002 min
Response: 1242384
Conc: 54.22 ppb



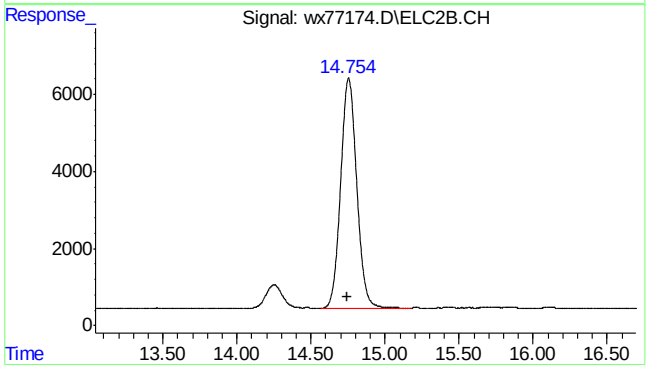
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 2500404443
Conc: 69762.16 ppb m



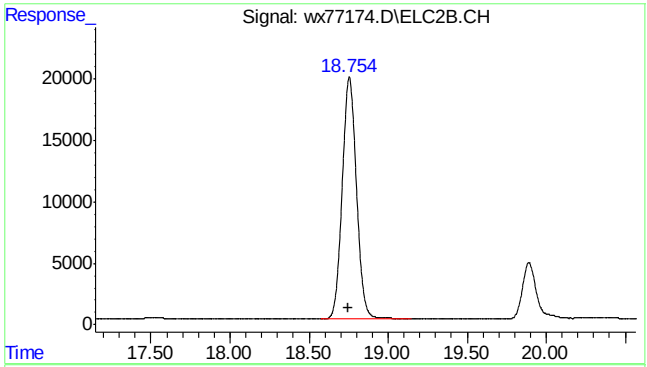
#15 benzene #2

R.T.: 14.250 min
Delta R.T.: 0.005 min
Response: 48867
Conc: 3.44 ppb m



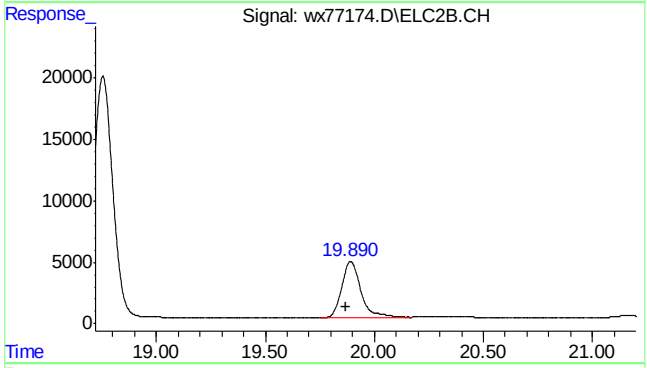
#16 fluorobenzene #2

R.T.: 14.753 min
Delta R.T.: 0.009 min
Response: 453099
Conc: 49.70 ppb



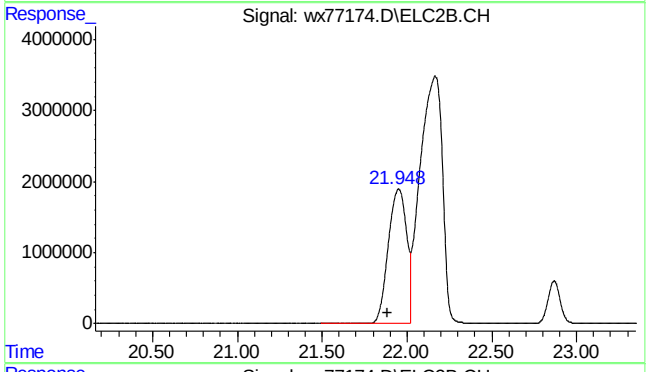
#17 toluene #2

R.T.: 18.755 min
Delta R.T.: 0.006 min
Response: 1240931
Conc: 96.46 ppb



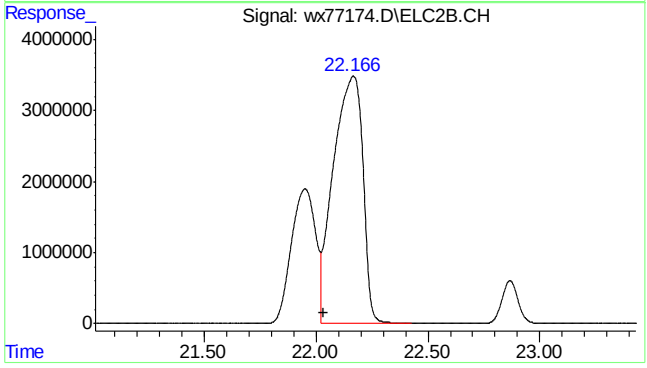
#18 2,3,4-trifluorotoluene #2

R.T.: 19.891 min
Delta R.T.: 0.022 min
Response: 288940
Conc: 52.90 ppb



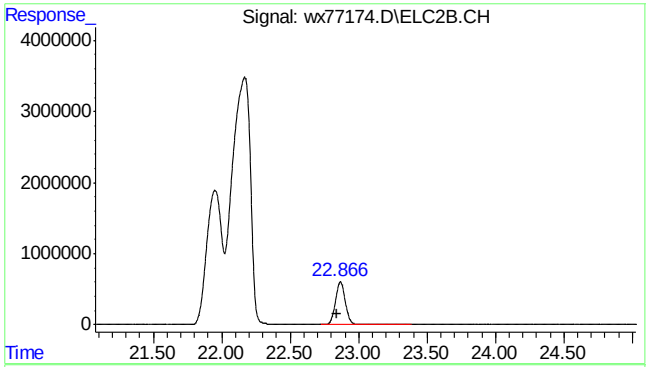
#19 ethylbenzene #2

R.T.: 21.951 min
Delta R.T.: 0.066 min
Response: 142858530
Conc: 12480.27 ppb



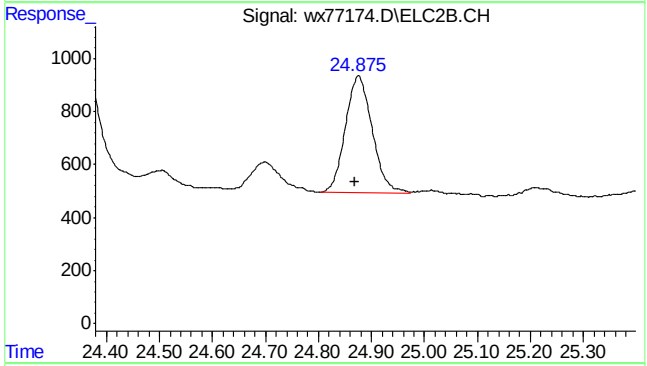
#20 m,p-xylene #2

R.T.: 22.166 min
Delta R.T.: 0.132 min
Response: 321684361
Conc: 23281.01 ppb m



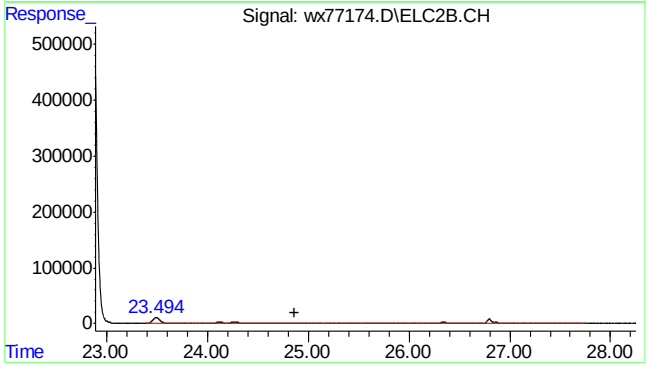
#21 o-xylene #2

R.T.: 22.867 min
Delta R.T.: 0.025 min
Response: 30593660
Conc: 2634.09 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 24.875 min
Delta R.T.: 0.006 min
Response: 15461
Conc: 1.22 ppb m



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

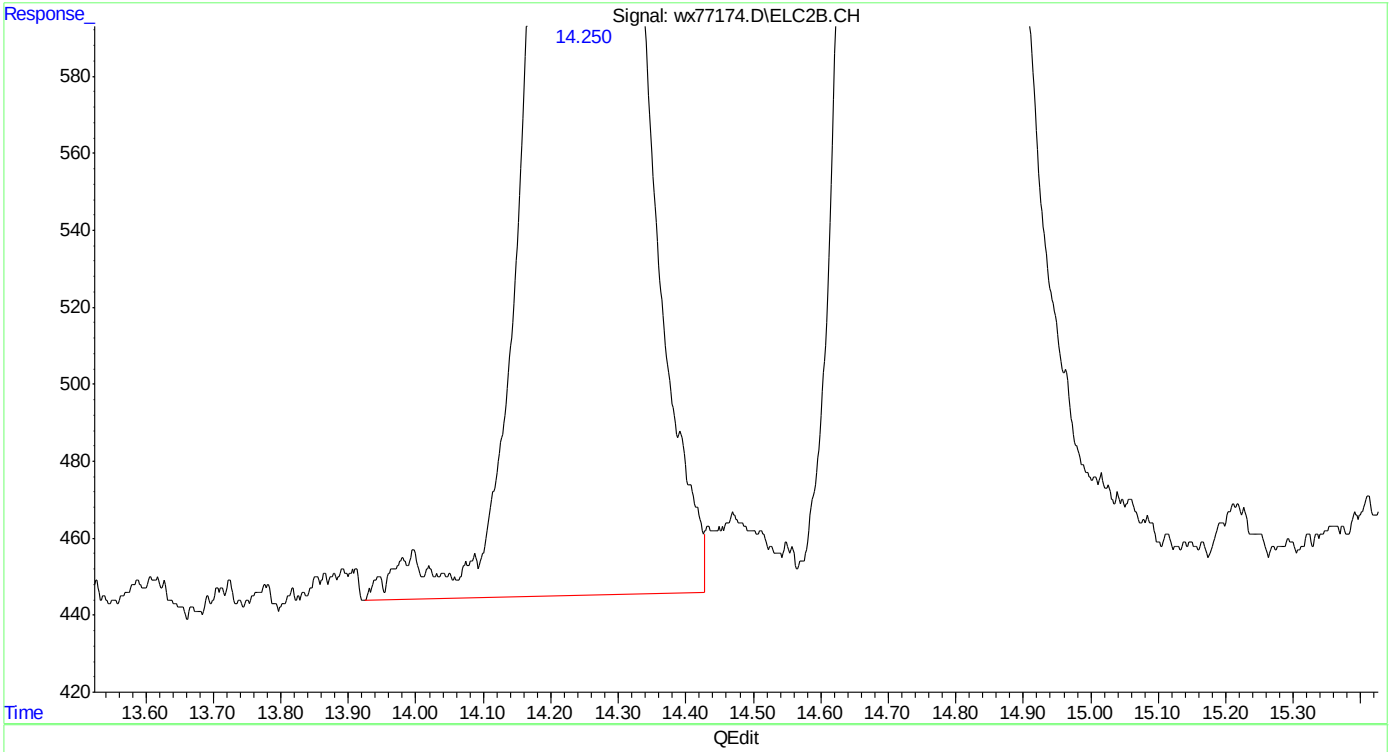
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1412289
Conc: 111.73 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77174.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 11:07 am
Operator : tonyf
Sample : mc46423-3,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:52:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.250min 3.510 ppb
response 49855

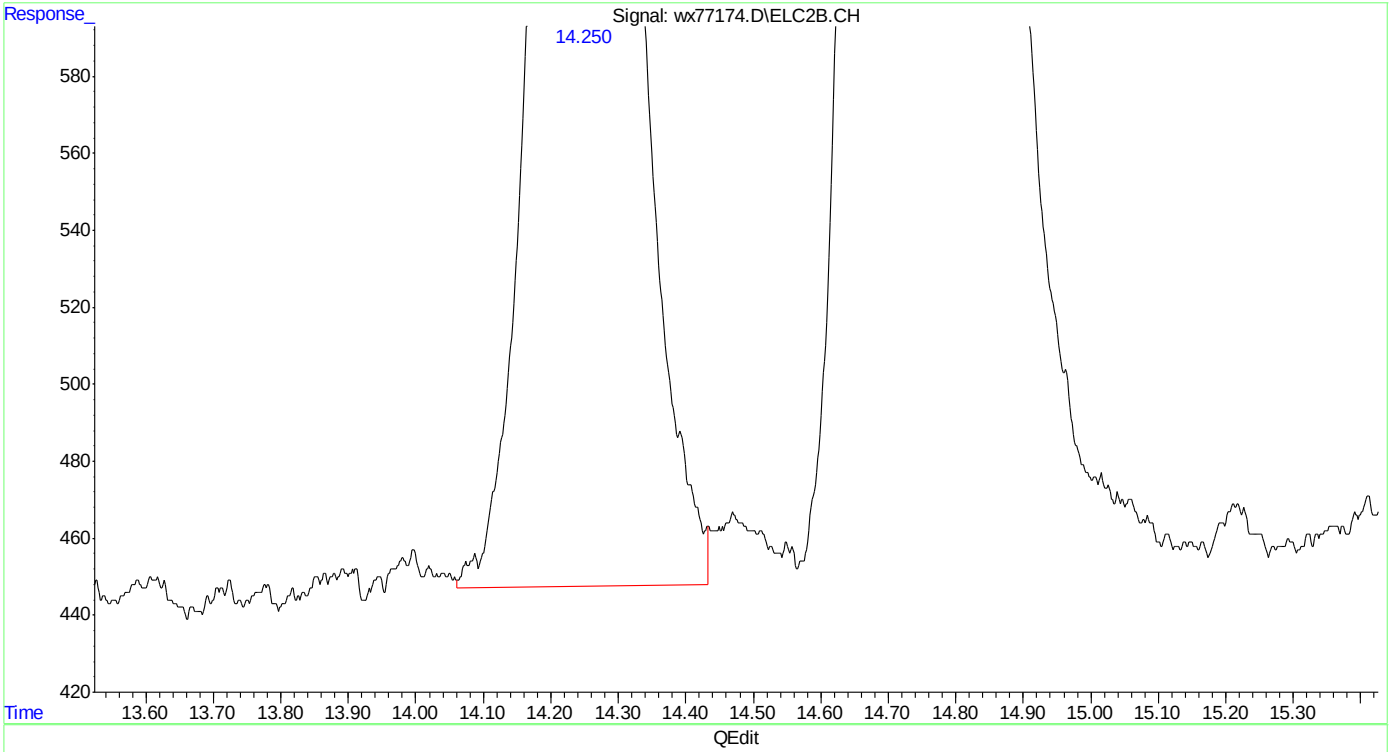
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:53:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77174.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 11:07 am
Operator : tonyf
Sample : mc46423-3,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:52:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.250min 3.440 ppb m
response 48867

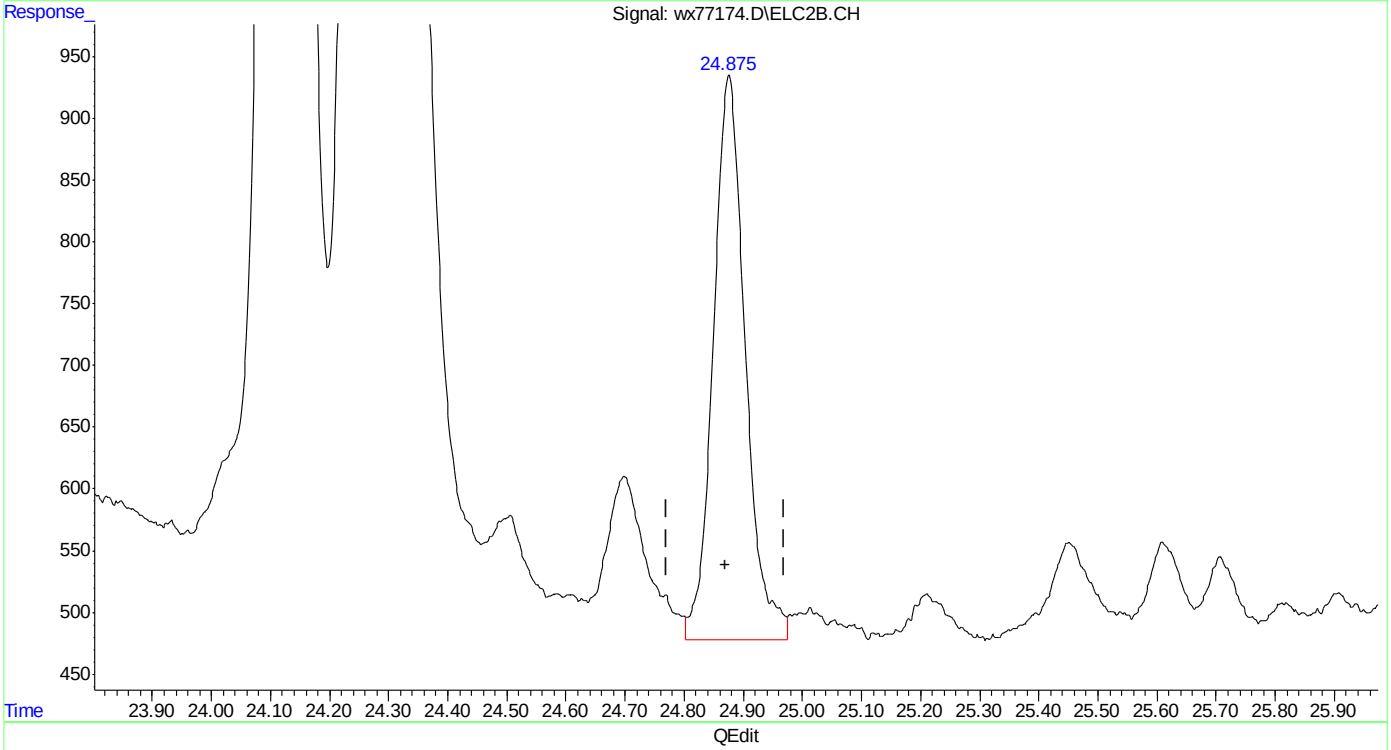
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:53:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77174.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 11:07 am
Operator : tonyf
Sample : mc46423-3,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 11:52:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.876min 1.355 ppb
response 17138

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 11:54:39 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77180.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:49 pm
Operator : tonyf
Sample : mc46423-3,1:100,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:29:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	1311421	46.406 ppb
Spiked Amount 50.000		Recovery =	92.81%
6) s 2,3,4-trifluorotoluene	19.877	1080650	47.158 ppb
Spiked Amount 50.000		Recovery =	94.32%
16) s fluorobenzene #2	14.742	408895	44.848 ppb
Spiked Amount 50.000		Recovery =	89.70%
18) s 2,3,4-trifluorotoluen...	19.876	245338	44.920 ppb
Spiked Amount 50.000		Recovery =	89.84%
Target Compounds			
1) h rt5.5-7	6.100	19840	0.838 ppb
2) h rt7/10	8.370	30215	1.277 ppb
3) h rt10/13	13.510	112220	4.742 ppb
8) h rt20/25	21.600	22620414	631.117 ppb
15) benzene #2	14.236	2980	0.210 ppb
17) toluene #2	18.742	12546	0.975 ppb
19) ethylbenzene #2	21.882	1744087	152.365 ppb
20) m,p-xylene #2	22.032	6109426	442.153 ppb
21) o-xylene #2	22.839	324671	27.954 ppb
23) 1,2,4-trimethylbenzen...	24.874	2081	0.165 ppb
24) naphthalene #2	27.798	1812	0.203 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	111699	8.837 ppb

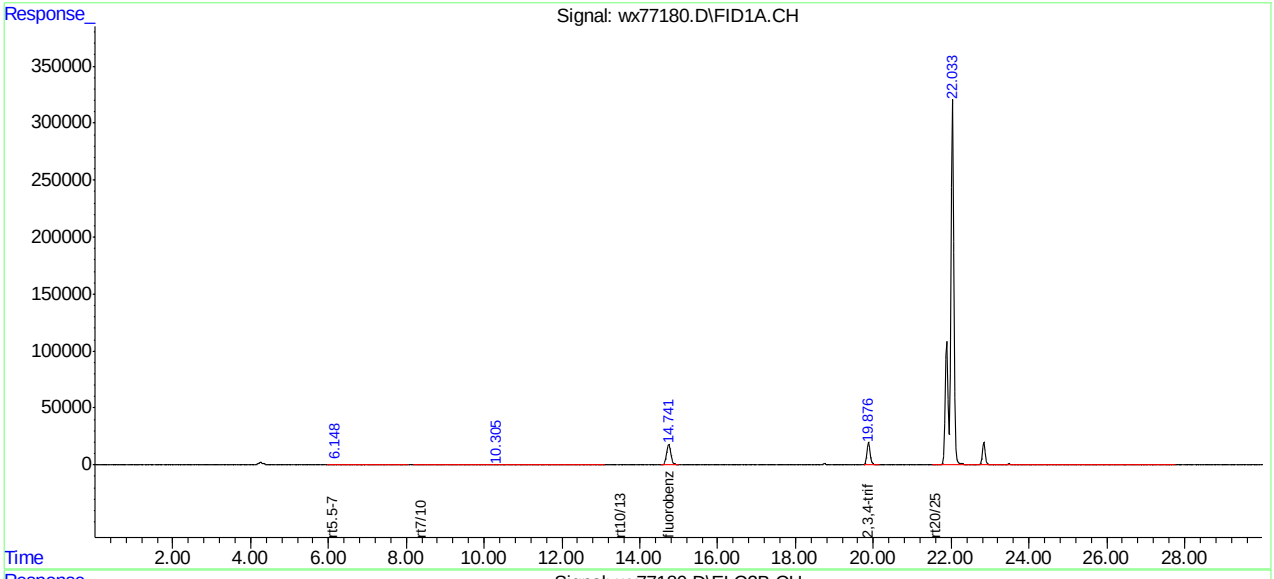
(f)=RT Delta > 1/2 Window (m)=manual int.

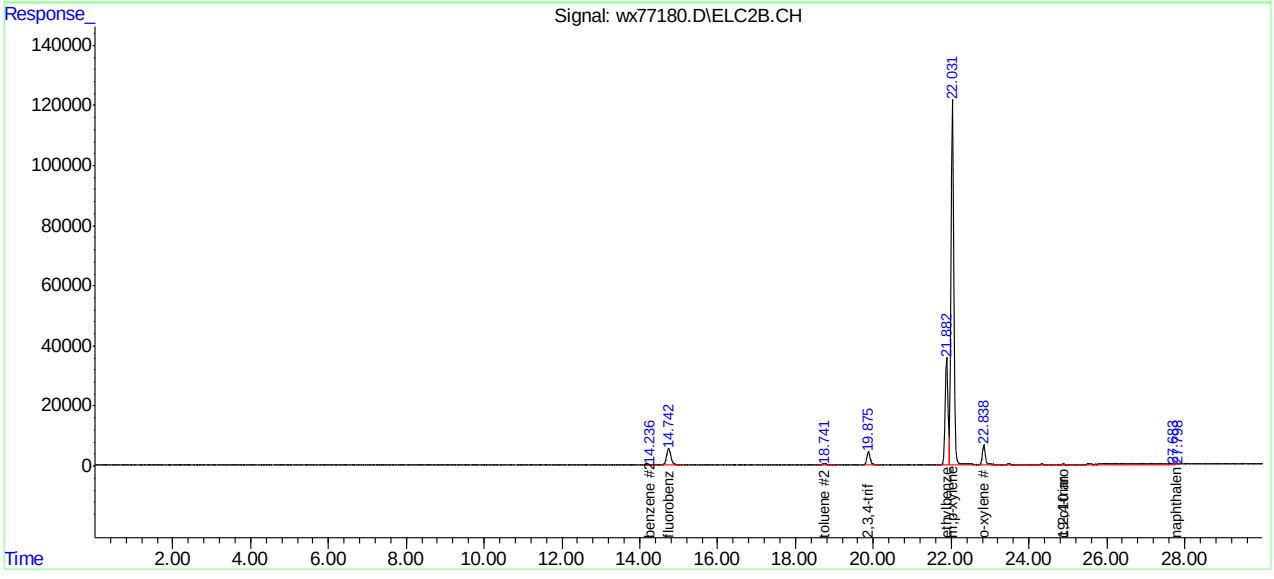
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77180.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:49 pm
Operator : tonyf
Sample : mc46423-3,1:100,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,100
ALS Vial : 13 Sample Multiplier: 1

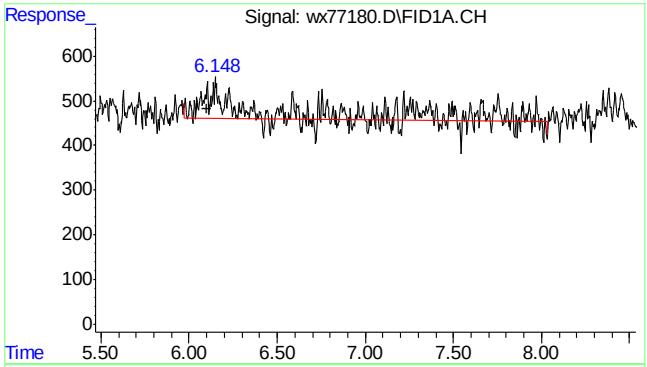
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:29:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



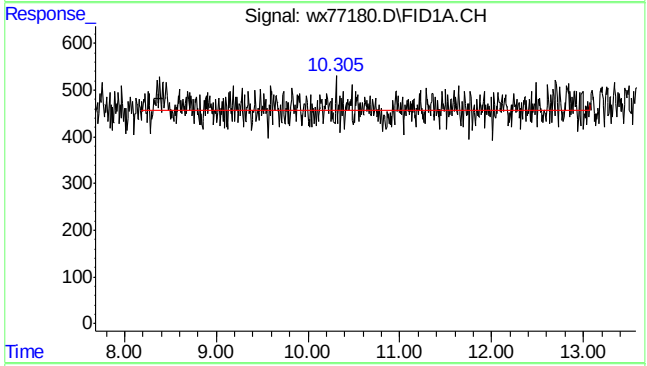


SGS ACCUTEST MC46423



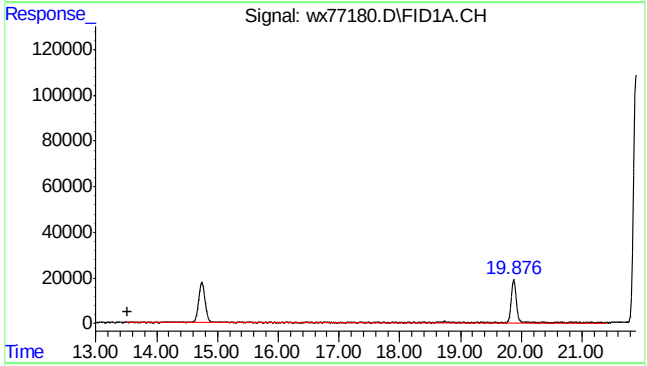
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 19840
Conc: 0.84 ppb m



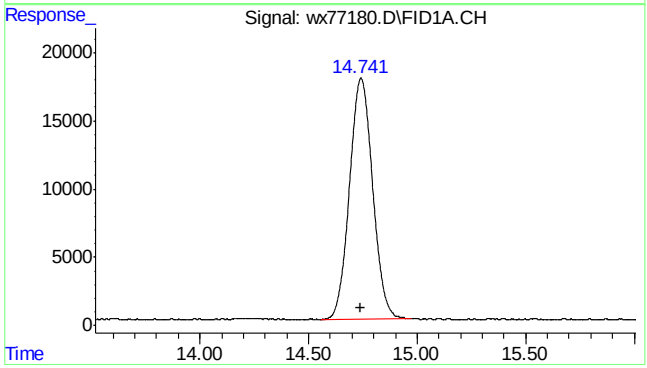
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 30215
Conc: 1.28 ppb m



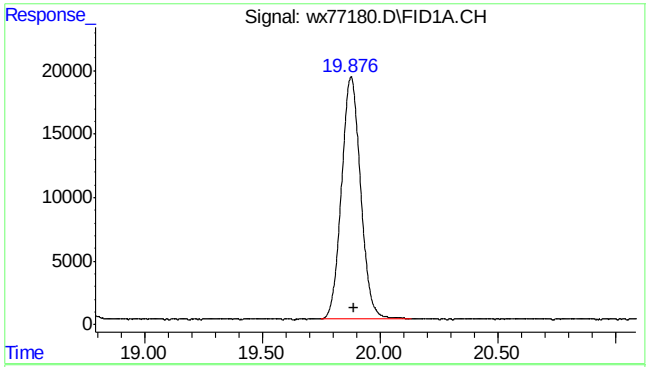
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 112220
Conc: 4.74 ppb m



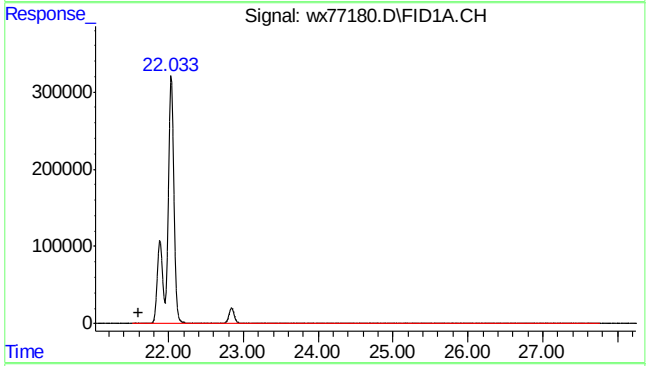
#4 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.004 min
Response: 1311421
Conc: 46.41 ppb



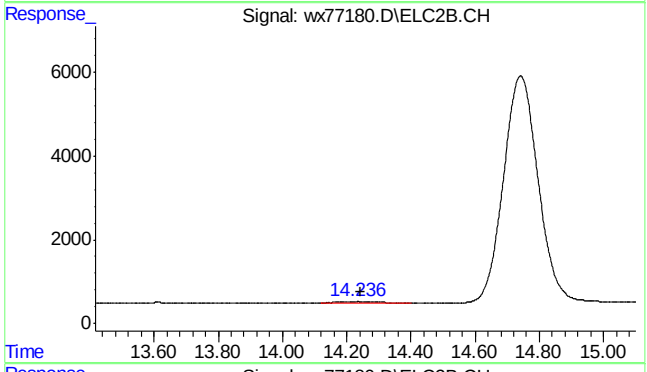
#6 2,3,4-trifluorotoluene

R.T.: 19.877 min
Delta R.T.: -0.013 min
Response: 1080650
Conc: 47.16 ppb



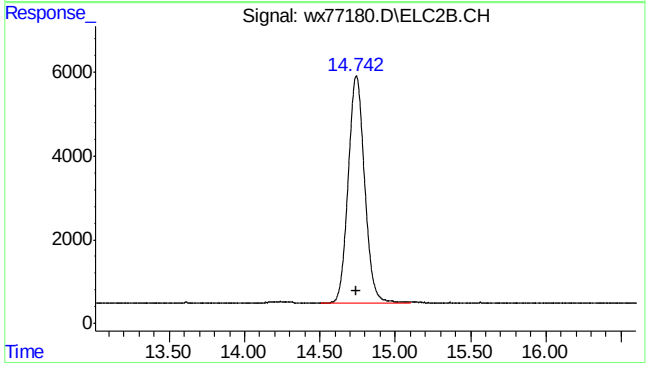
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 22620414
Conc: 631.12 ppb m



#15 benzene #2

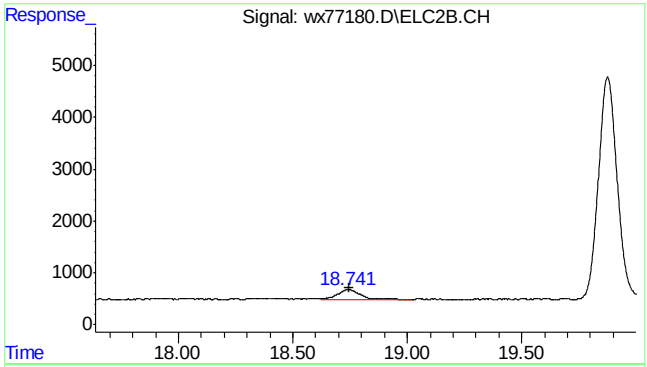
R.T.: 14.236 min
Delta R.T.: -0.009 min
Response: 2980
Conc: 0.21 ppb



#16 fluorobenzene #2

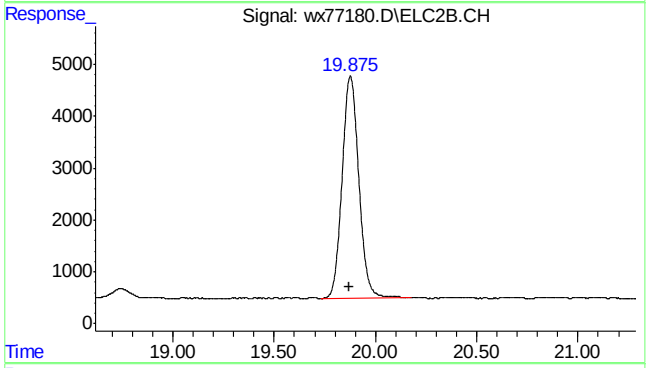
R.T.: 14.742 min
Delta R.T.: -0.002 min
Response: 408895
Conc: 44.85 ppb

SGS ACCUTEST MC46423



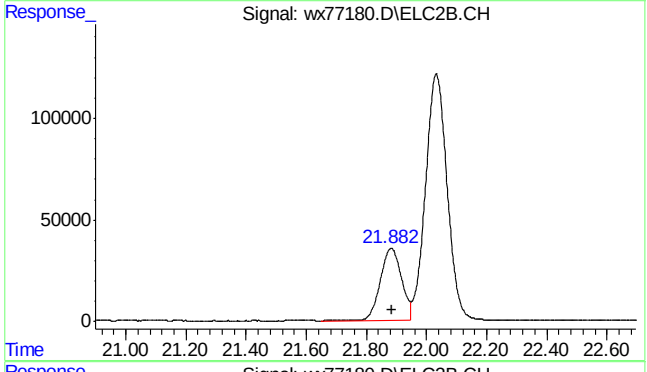
#17 toluene #2

R.T.: 18.742 min
Delta R.T.: -0.007 min
Response: 12546
Conc: 0.98 ppb



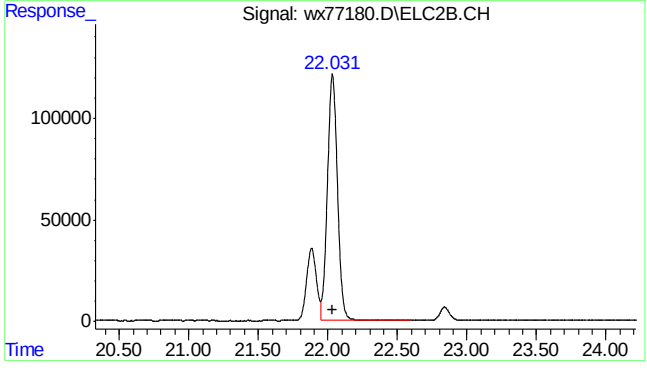
#18 2,3,4-trifluorotoluene #2

R.T.: 19.876 min
Delta R.T.: 0.007 min
Response: 245338
Conc: 44.92 ppb



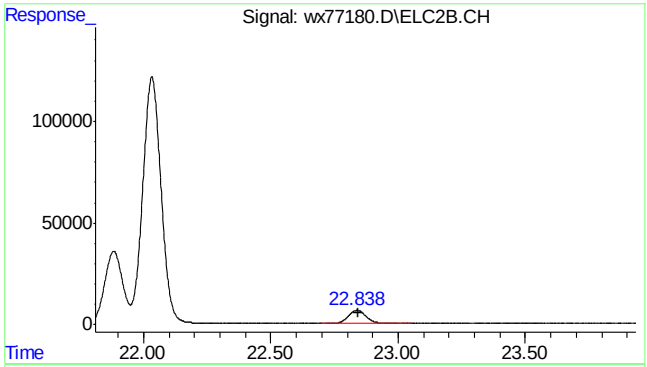
#19 ethylbenzene #2

R.T.: 21.882 min
Delta R.T.: -0.003 min
Response: 1744087
Conc: 152.37 ppb



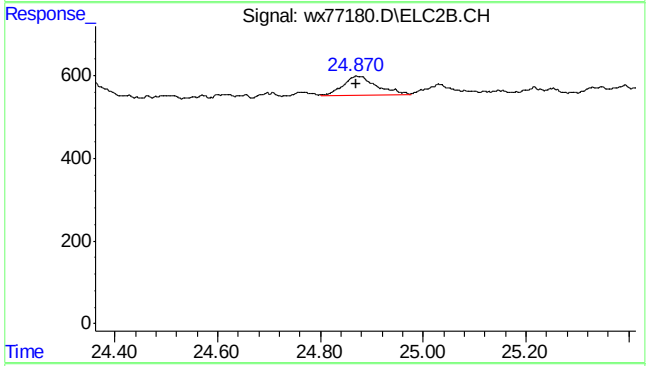
#20 m,p-xylene #2

R.T.: 22.032 min
Delta R.T.: -0.002 min
Response: 6109426
Conc: 442.15 ppb



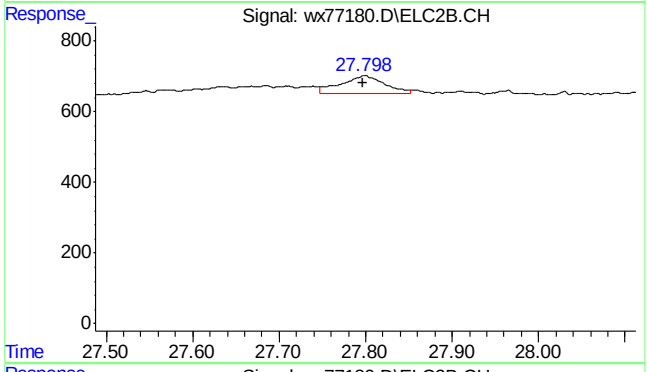
#21 o-xylene #2

R.T.: 22.839 min
Delta R.T.: -0.004 min
Response: 324671
Conc: 27.95 ppb



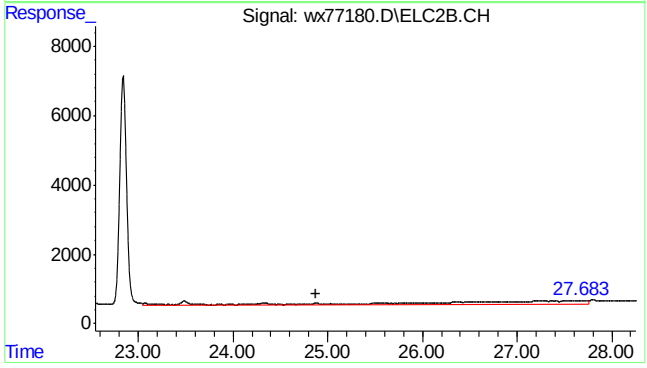
#23 1,2,4-trimethylbenzene #2

R.T.: 24.874 min
Delta R.T.: 0.004 min
Response: 2081
Conc: 0.16 ppb



#24 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.001 min
Response: 1812
Conc: 0.20 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 111699
Conc: 8.84 ppb m

7.1.4

7

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77180.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:49 pm
Operator : tonyf
Sample : mc46423-3,1:100,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:27:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.799min 0.620 ppb
response 5526

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:29:03 2016

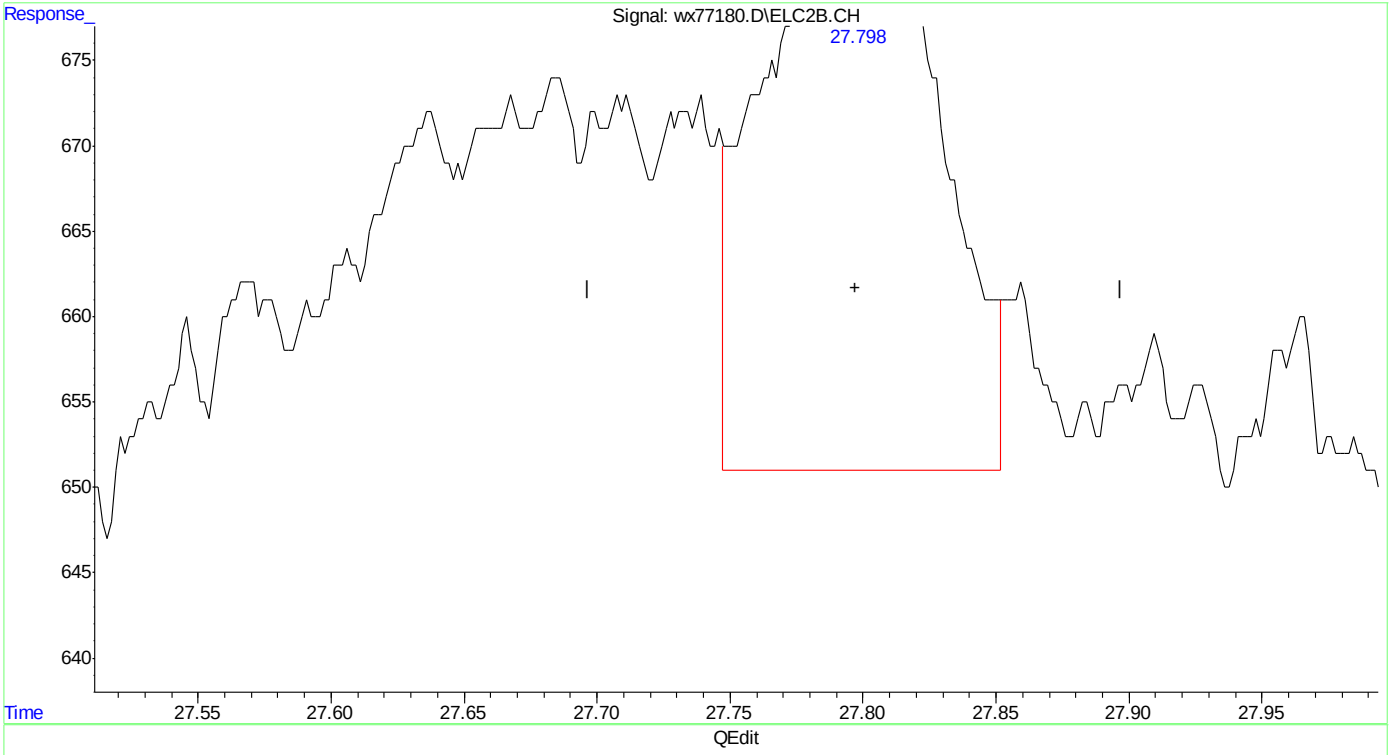
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77180.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:49 pm
Operator : tonyf
Sample : mc46423-3,1:100,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,100
ALS Vial : 13 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:27:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.798min 0.203 ppb m
response 1812

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:29:14 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:27:31 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	1310932	46.389	ppb	
Spiked Amount 50.000		Recovery =	92.78%		
6) s 2,3,4-trifluorotoluene	19.879	1072798	46.815	ppb	
Spiked Amount 50.000		Recovery =	93.63%		
16) s fluorobenzene #2	14.742	410761	45.052	ppb	
Spiked Amount 50.000		Recovery =	90.10%		
18) s 2,3,4-trifluorotoluen...	19.878	248055	45.417	ppb	
Spiked Amount 50.000		Recovery =	90.83%		
Target Compounds					
1) h rt5.5-7	6.100	66960	2.830	ppb	
2) h rt7/10	8.370	213512	9.023	ppb	
3) h rt10/13	13.510	580280	24.523	ppb	
8) h rt20/25	21.600	1986711	55.430	ppb	
14) mtbe #2	9.135f	34208	7.841	ppb	m
15) benzene #2	14.243	9031	0.636	ppb	m
17) toluene #2	18.748	2761	0.215	ppb	m
19) ethylbenzene #2	21.883	125718	10.983	ppb	
20) m,p-xylene #2	22.033	490619	35.507	ppb	
21) o-xylene #2	22.839	31096	2.677	ppb	
23) 1,2,4-trimethylbenzen...	24.863	3512	0.278	ppb	
24) naphthalene #2	27.793	2388	0.268	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	121650	9.624	ppb	

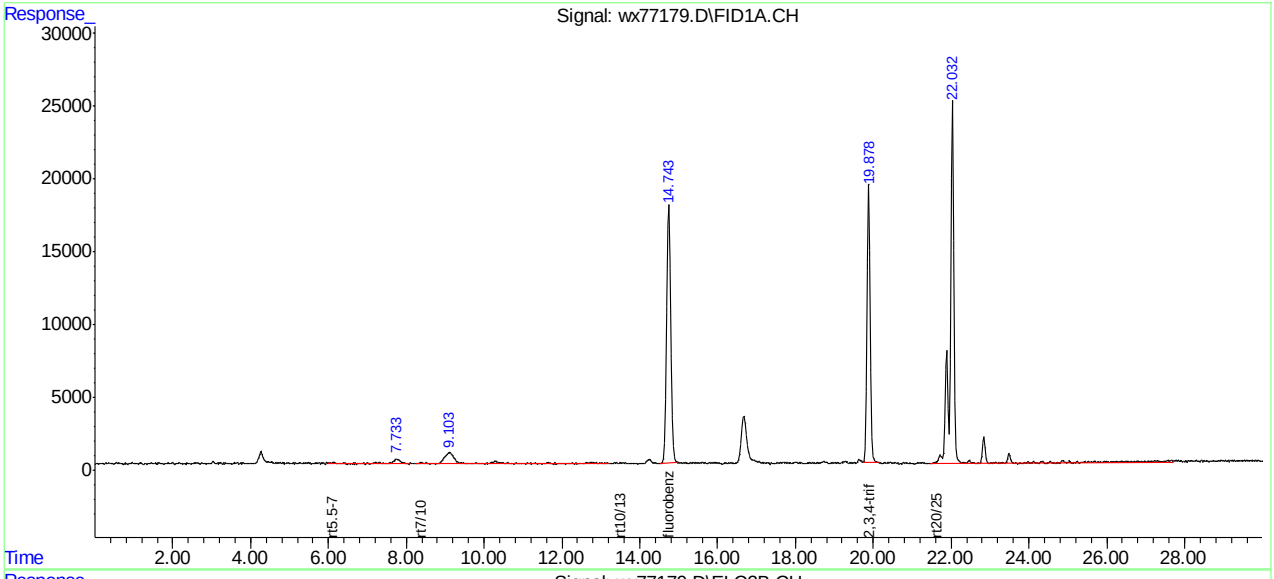
(f)=RT Delta > 1/2 Window (m)=manual int.

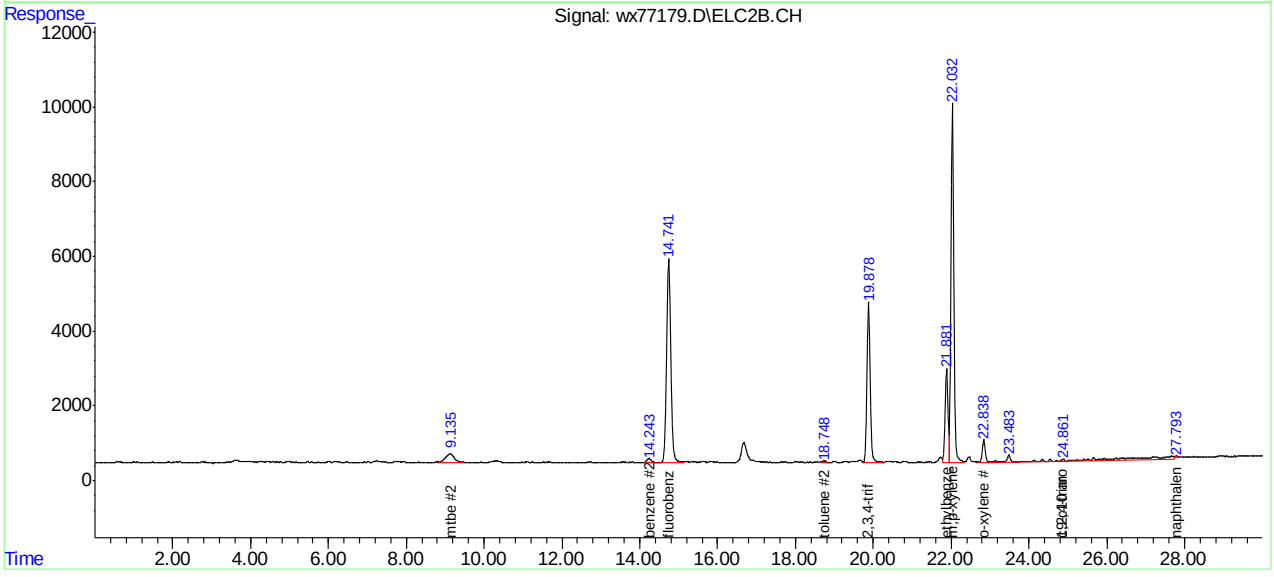
Quantitation Report (QT Reviewed)

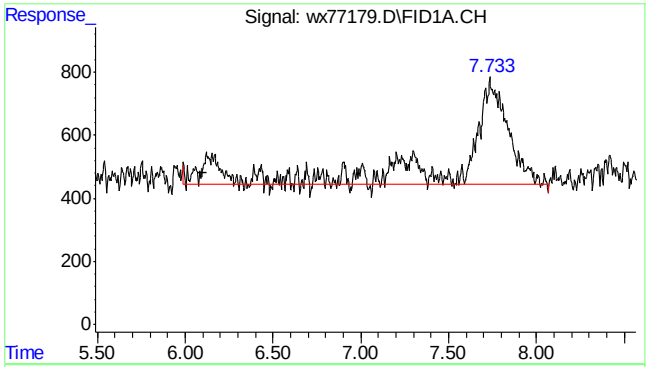
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:27:31 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

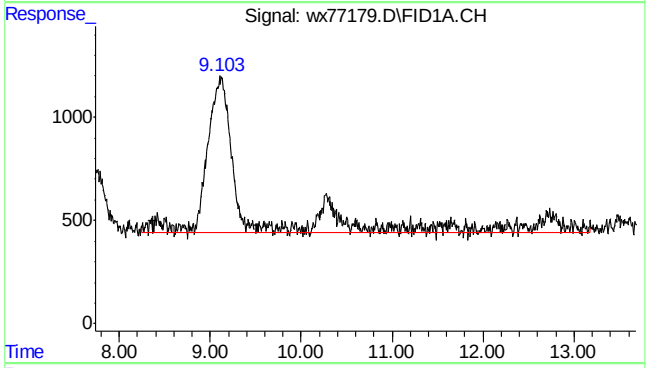






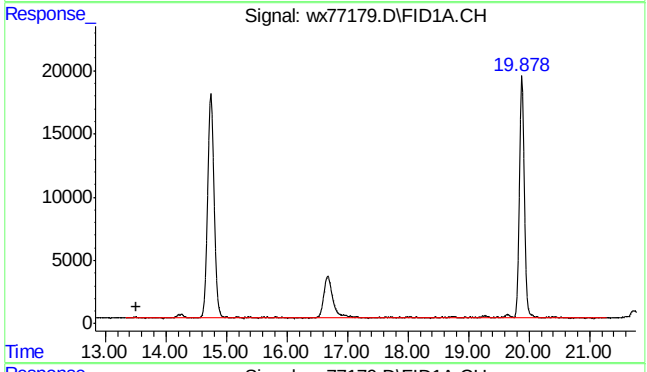
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 66960
Conc: 2.83 ppb m



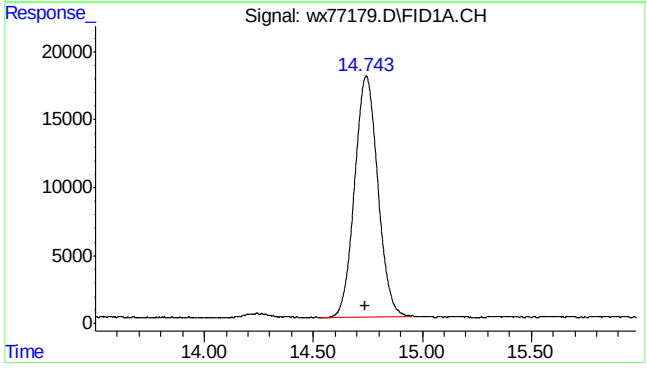
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 213512
Conc: 9.02 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 580280
Conc: 24.52 ppb m



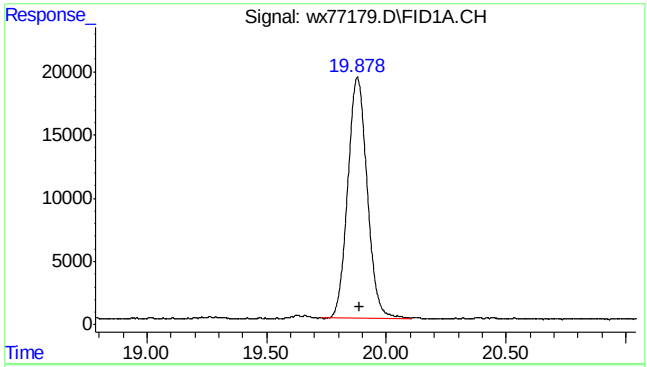
#4 fluorobenzene

R.T.: 14.743 min
Delta R.T.: 0.005 min
Response: 1310932
Conc: 46.39 ppb

7.1.5

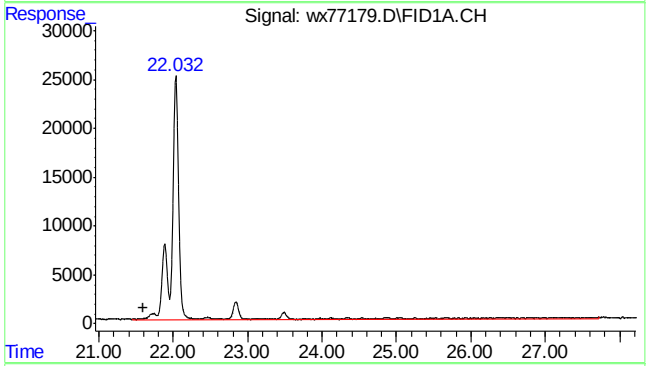
7

SGS ACCUTEST MC46423



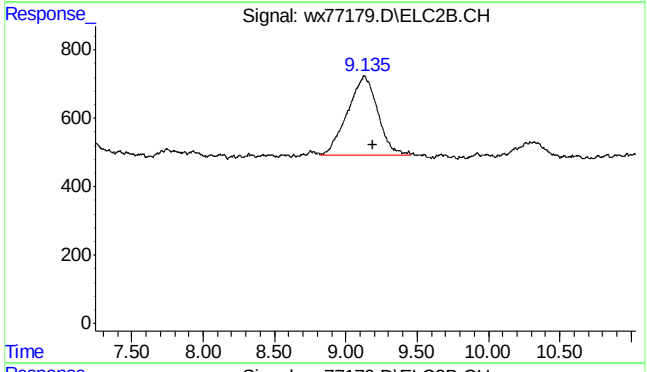
#6 2,3,4-trifluorotoluene

```
      R.T.:   19.879 min
Delta R.T.:   -0.011 min
  Response:   1072798
      Conc:  46.82 ppb
```



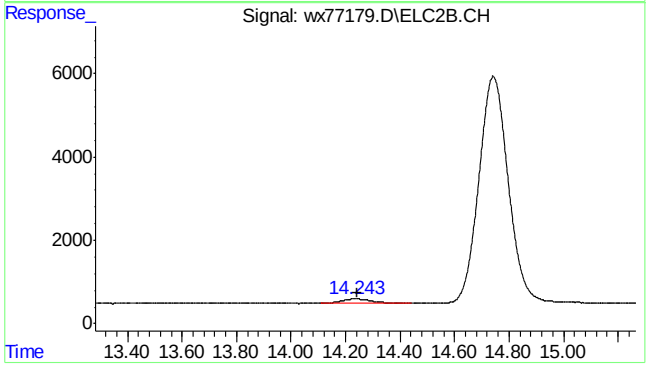
#8 rt20/25

```
      R.T.:   21.600 min
Delta R.T.:    0.000 min
  Response:   1986711
      Conc:  55.43 ppb m
```



#14 mtbe #2

```
      R.T.:    9.135 min
Delta R.T.:   -0.057 min
  Response:     34208
      Conc:   7.84 ppb m
```



#15 benzene #2

```
      R.T.:   14.243 min
Delta R.T.:   -0.002 min
  Response:      9031
      Conc:   0.64 ppb m
```

7.1.5

7

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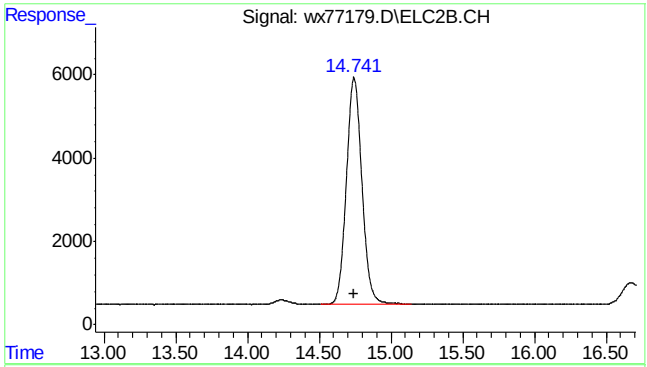
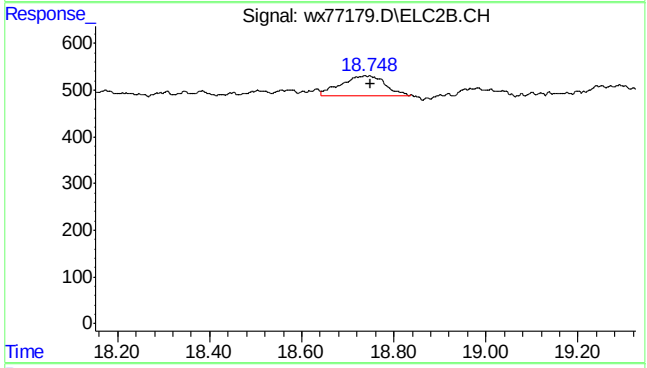


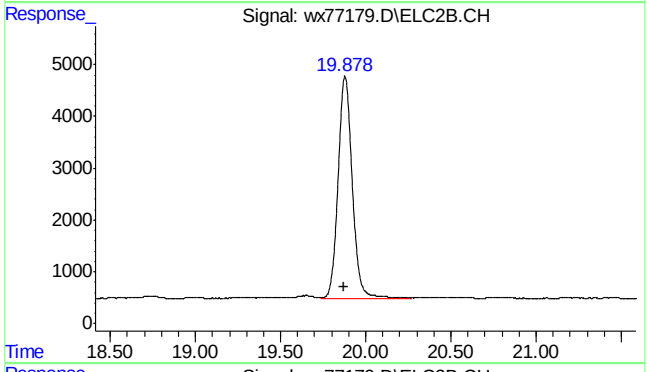
#16 fluorobenzene #2

R.T.: 14.742 min
Delta R.T.: -0.002 min
Response: 410761
Conc: 45.05 ppb



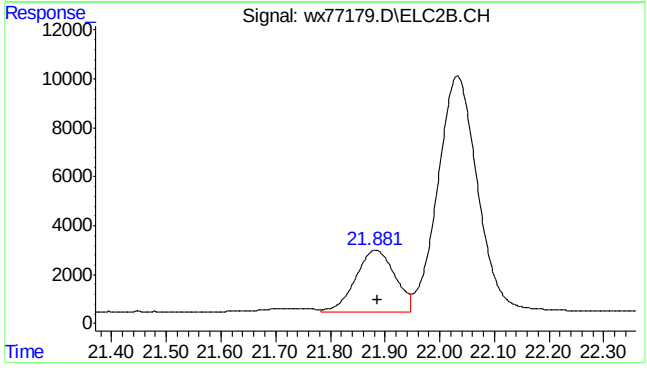
#17 toluene #2

R.T.: 18.748 min
Delta R.T.: -0.001 min
Response: 2761
Conc: 0.21 ppb m



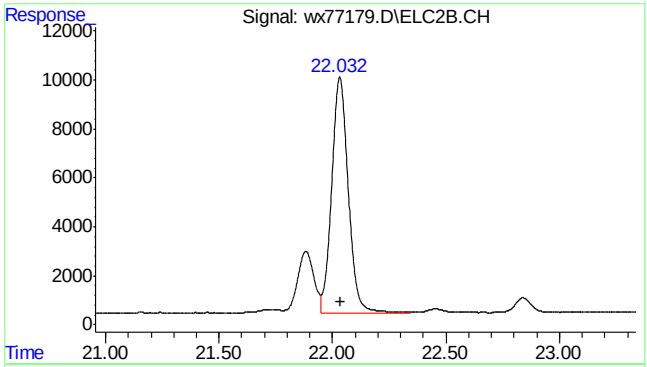
#18 2,3,4-trifluorotoluene #2

R.T.: 19.878 min
Delta R.T.: 0.009 min
Response: 248055
Conc: 45.42 ppb



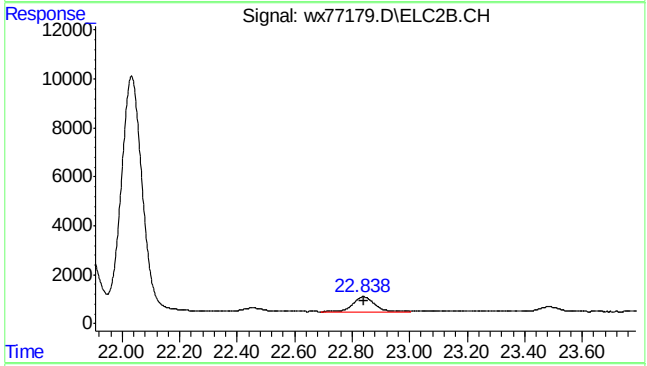
#19 ethylbenzene #2

R.T.: 21.883 min
Delta R.T.: -0.003 min
Response: 125718
Conc: 10.98 ppb



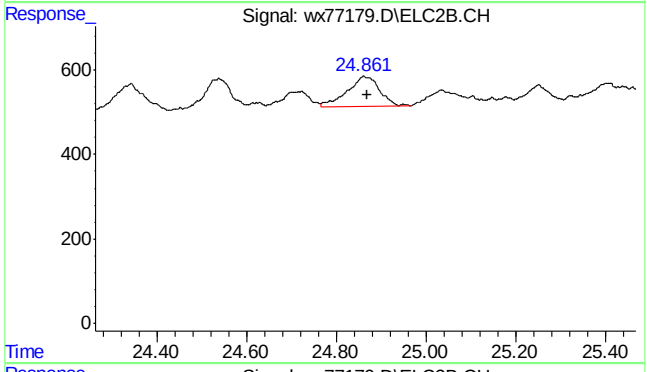
#20 m,p-xylene #2

R.T.: 22.033 min
Delta R.T.: -0.001 min
Response: 490619
Conc: 35.51 ppb



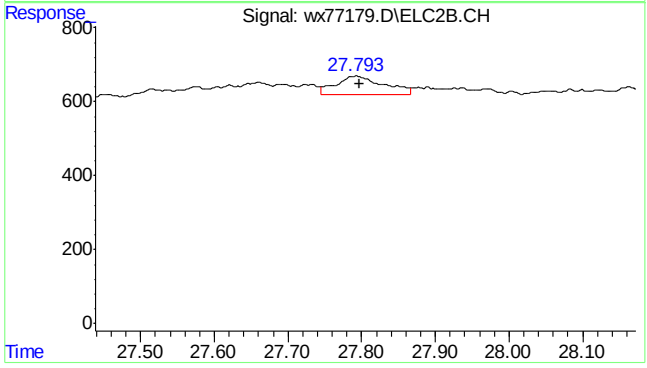
#21 o-xylene #2

R.T.: 22.839 min
Delta R.T.: -0.003 min
Response: 31096
Conc: 2.68 ppb



#23 1,2,4-trimethylbenzene #2

R.T.: 24.863 min
Delta R.T.: -0.006 min
Response: 3512
Conc: 0.28 ppb



#24 naphthalene #2

R.T.: 27.793 min
Delta R.T.: -0.004 min
Response: 2388
Conc: 0.27 ppb m

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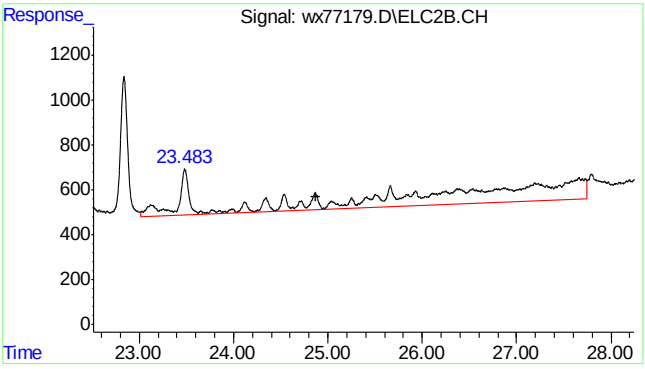


#25 c9-c10 arom as 1,2,4-tmb

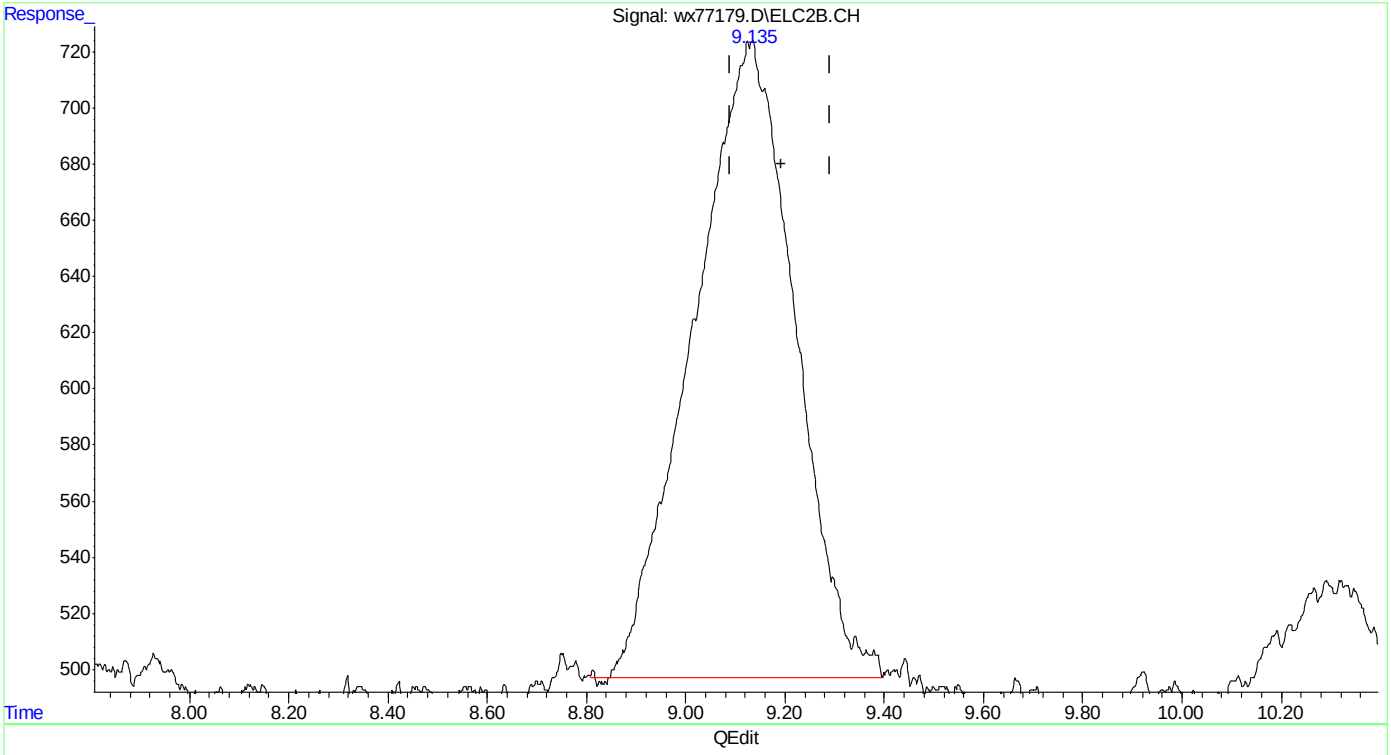
R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	121650
Conc:	9.62 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.135min 7.374 ppb
response 32173

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:26:26 2016

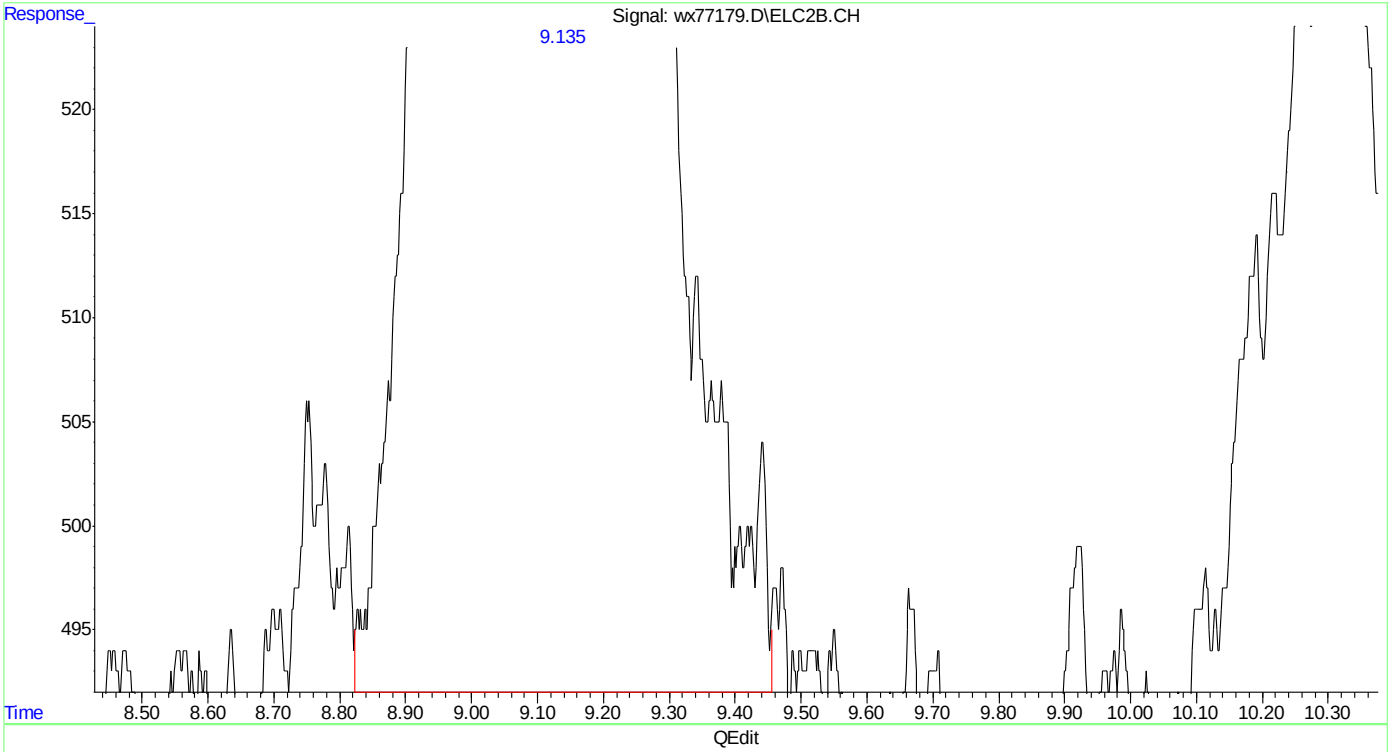
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.135min 7.841 ppb m
response 34208

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:26:32 2016

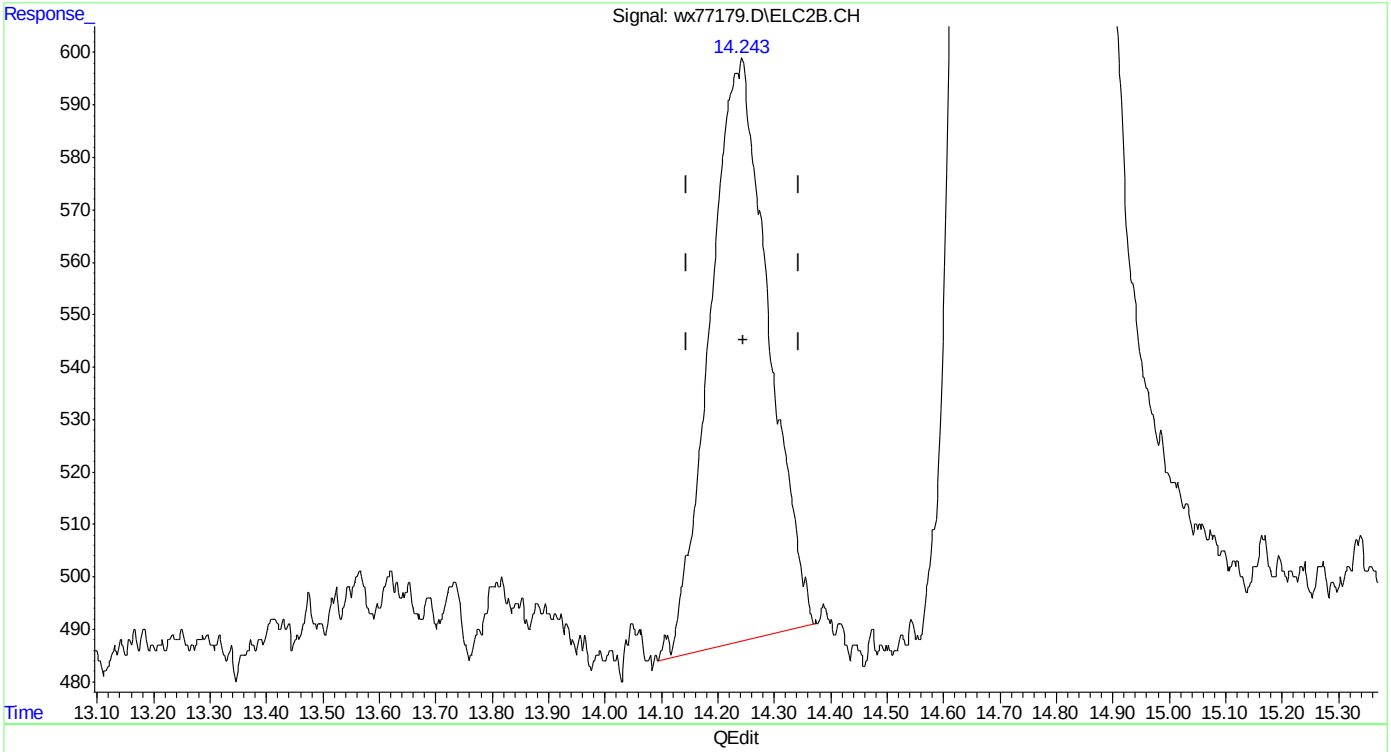
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.244min 0.563 ppb
response 7992

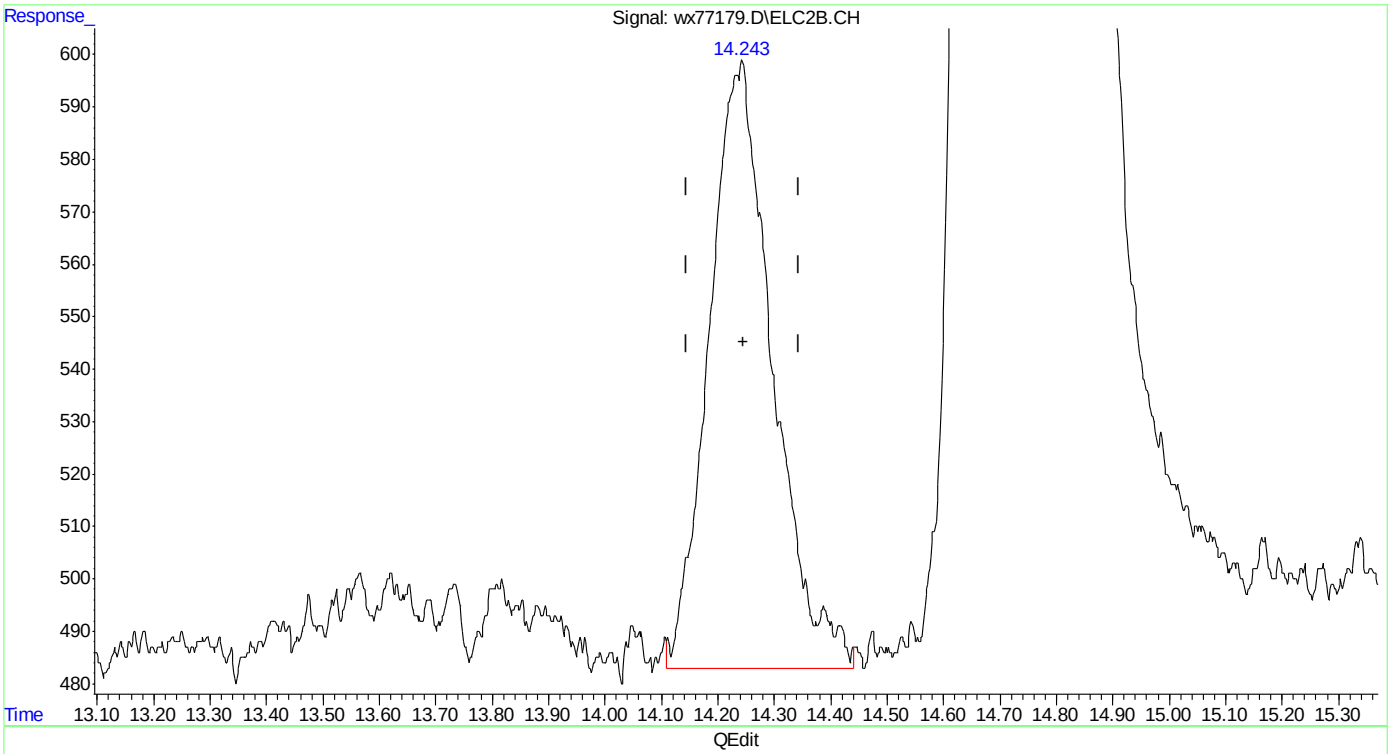
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:26:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.243min 0.636 ppb m
response 9031

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:26:44 2016

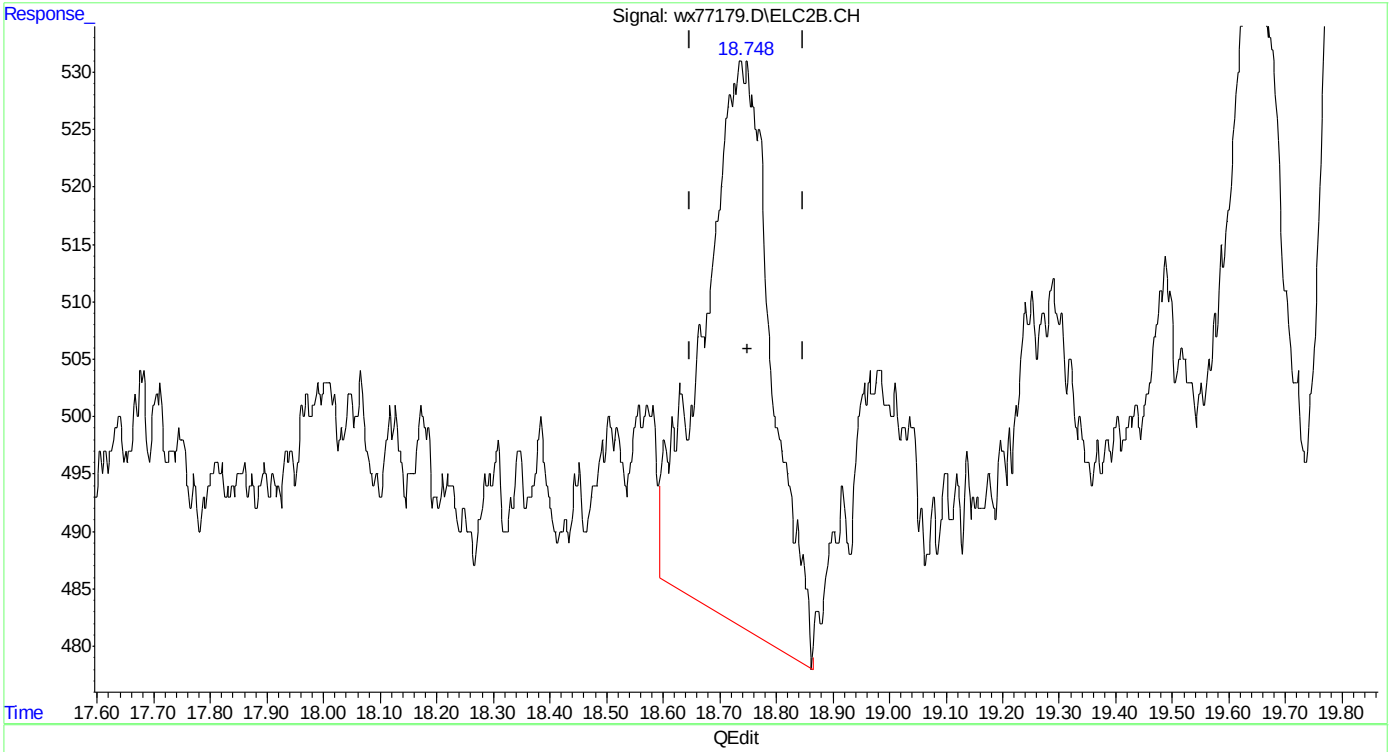
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.740min 0.315 ppb
response 4047

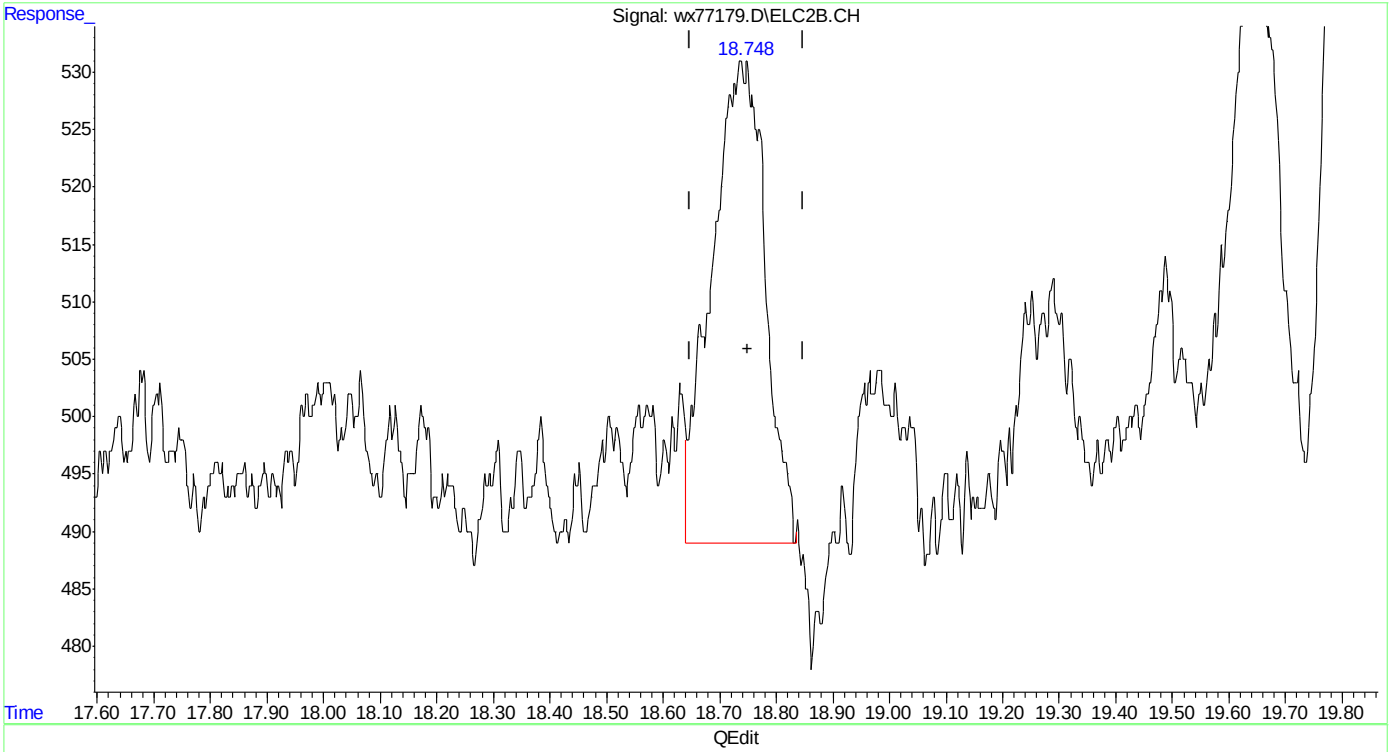
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:26:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.748min 0.215 ppb m
response 2761

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:27:07 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.792min 0.407 ppb
response 3623

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:27:18 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77179.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 2:12 pm
Operator : tonyf
Sample : mc46423-4,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:25:54 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(24) naphthalene #2
27.793min 0.268 ppb m
response 2388

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:27:26 2016

SGS ACCUTEST MC46423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:16:41 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	1301084	46.041 ppb
Spiked Amount 50.000		Recovery =	92.08%
6) s 2,3,4-trifluorotoluene	19.880	1071114	46.742 ppb
Spiked Amount 50.000		Recovery =	93.48%
16) s fluorobenzene #2	14.741	413608	45.365 ppb
Spiked Amount 50.000		Recovery =	90.73%
18) s 2,3,4-trifluorotoluen...	19.880	246324	45.100 ppb
Spiked Amount 50.000		Recovery =	90.20%
Target Compounds			
1) h rt5.5-7	6.100	21076	0.891 ppb
2) h rt7/10	8.370	127606	5.393 ppb
3) h rt10/13	13.510	33612	1.420 ppb
8) h rt20/25	21.600	452722	12.631 ppb
14) mtbe #2	9.154	19359	4.437 ppb
15) benzene #2	14.238	4234	0.298 ppb
19) ethylbenzene #2	21.884	10000	0.874 ppb
20) m,p-xylene #2	22.037	43879	3.176 ppb
21) o-xylene #2	22.844	7446	0.641 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	111623	8.831 ppb

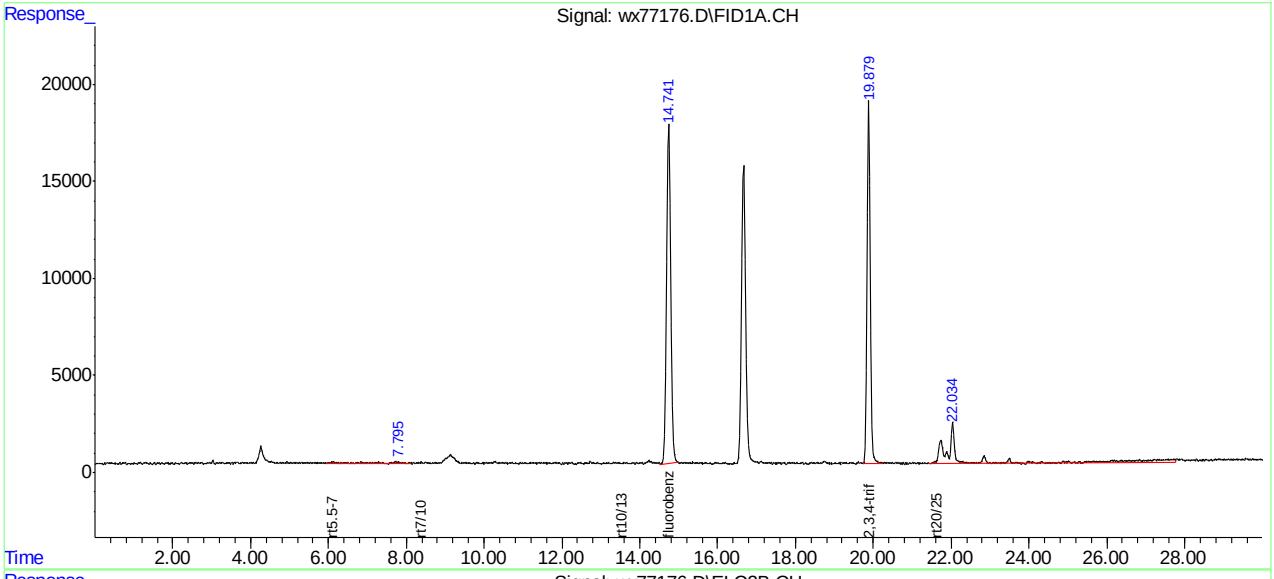
(f)=RT Delta > 1/2 Window (m)=manual int.

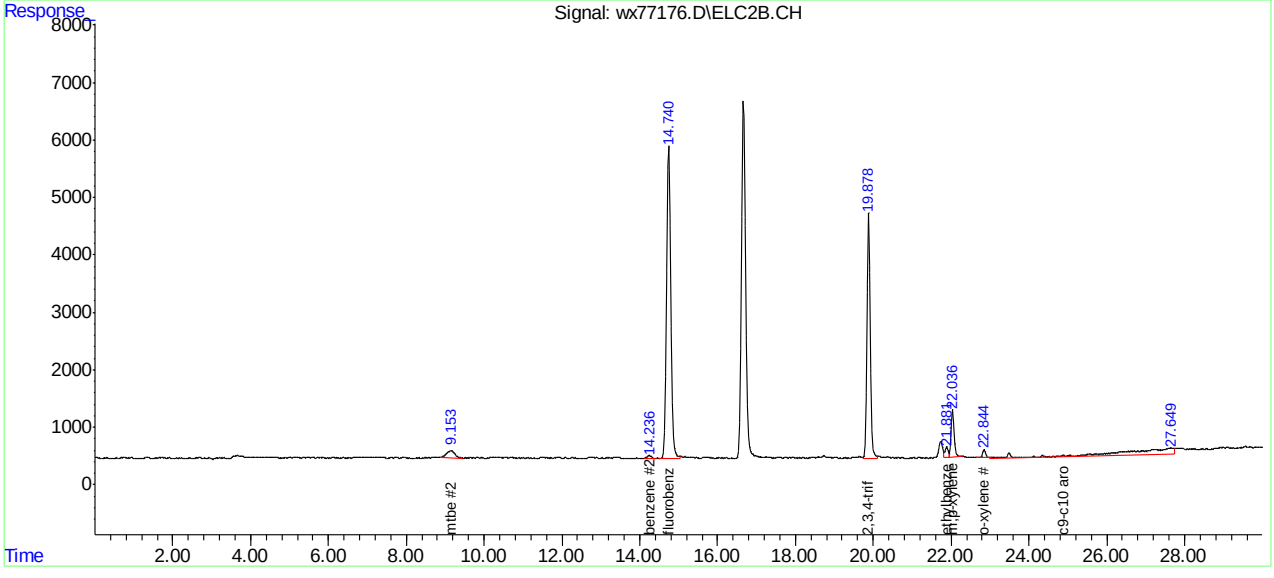
Quantitation Report (QT Reviewed)

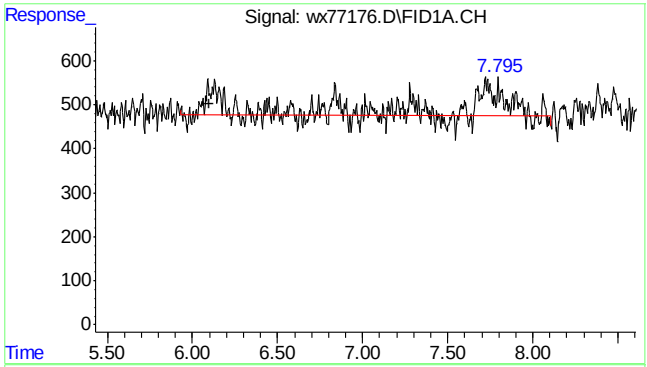
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:16:41 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

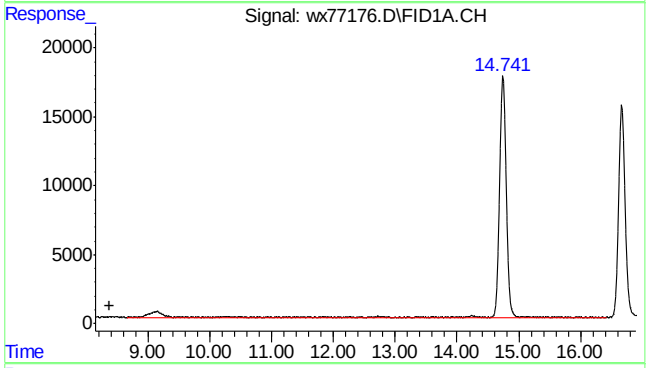






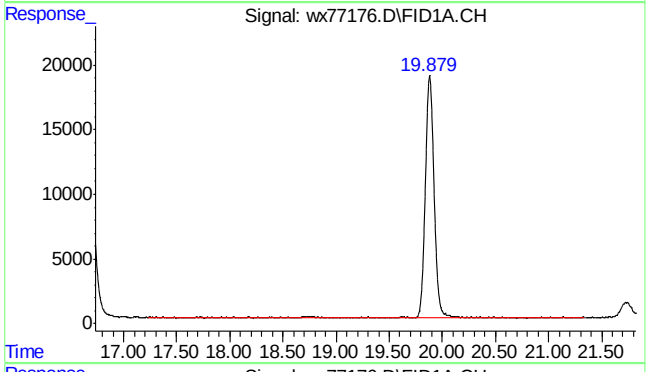
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 21076
Conc: 0.89 ppb m



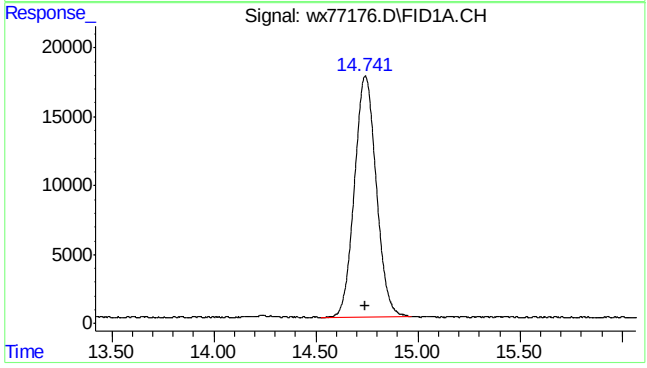
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 127606
Conc: 5.39 ppb m



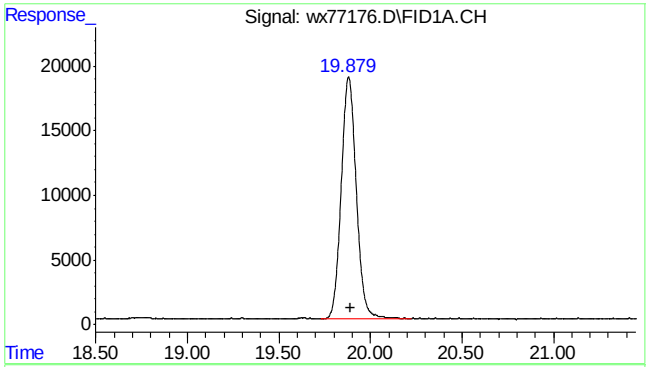
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 33612
Conc: 1.42 ppb m



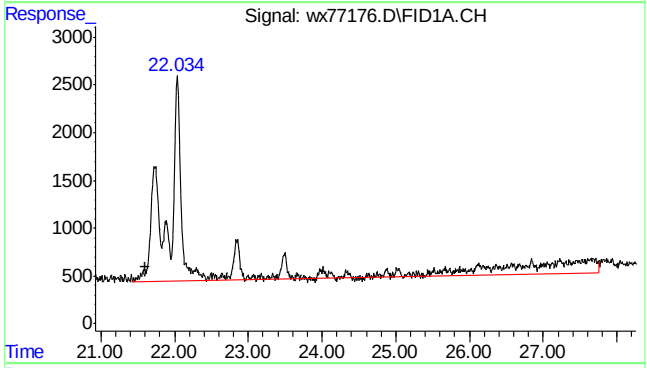
#4 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.003 min
Response: 1301084
Conc: 46.04 ppb



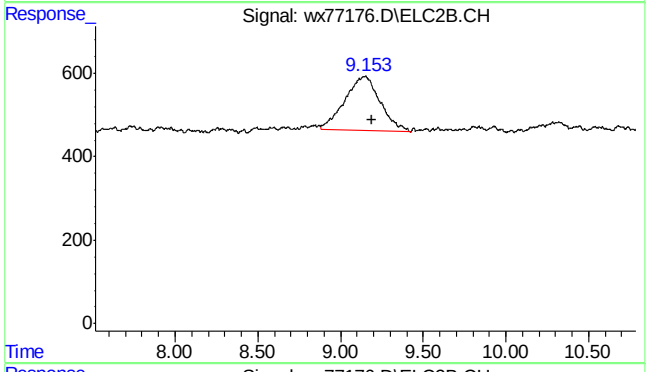
#6 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: -0.010 min
Response: 1071114
Conc: 46.74 ppb



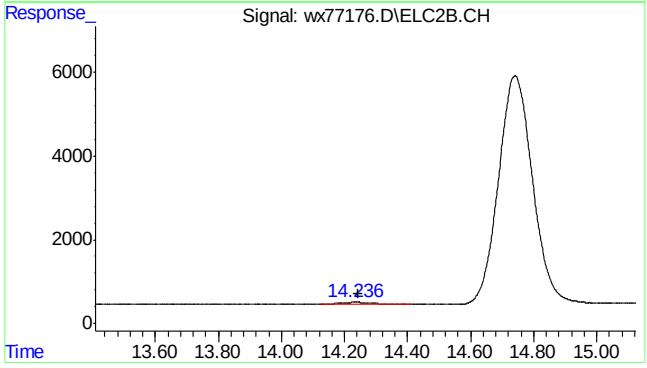
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 452722
Conc: 12.63 ppb m



#14 mtbe #2

R.T.: 9.154 min
Delta R.T.: -0.038 min
Response: 19359
Conc: 4.44 ppb



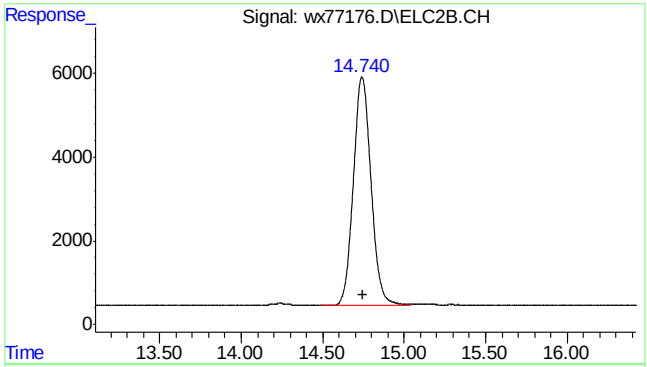
#15 benzene #2

R.T.: 14.238 min
Delta R.T.: -0.007 min
Response: 4234
Conc: 0.30 ppb

7.1.6

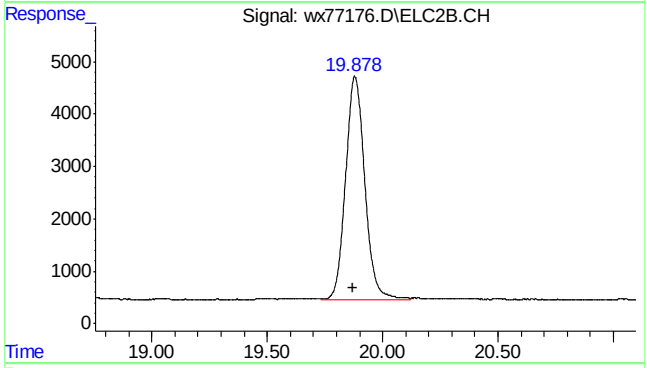
7

SGS ACCUTEST MC46423



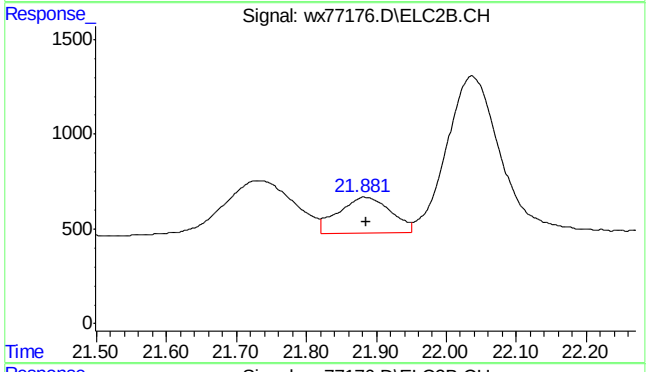
#16 fluorobenzene #2

R.T.: 14.741 min
Delta R.T.: -0.003 min
Response: 413608
Conc: 45.36 ppb



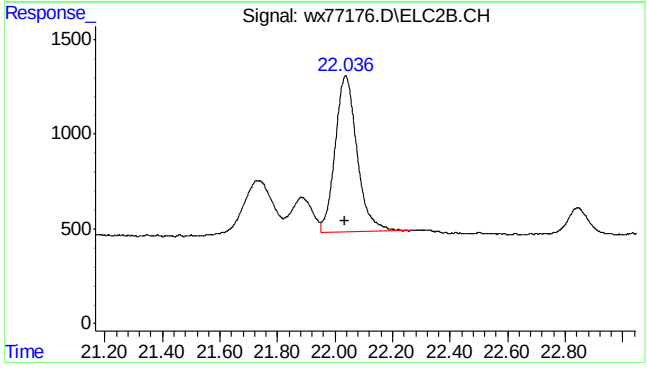
#18 2,3,4-trifluorotoluene #2

R.T.: 19.880 min
Delta R.T.: 0.011 min
Response: 246324
Conc: 45.10 ppb



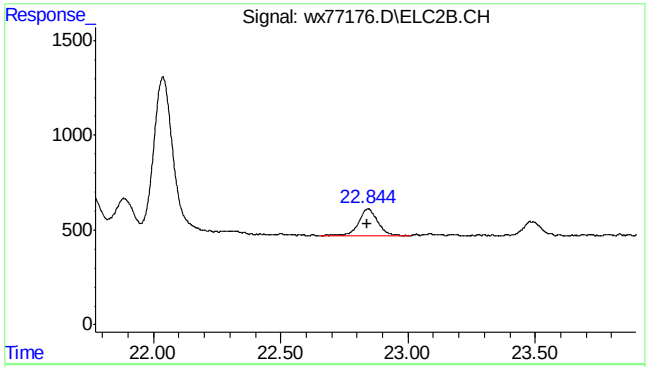
#19 ethylbenzene #2

R.T.: 21.884 min
Delta R.T.: -0.002 min
Response: 10000
Conc: 0.87 ppb



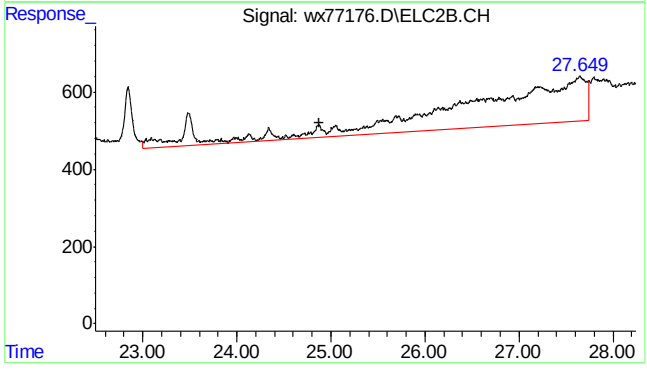
#20 m,p-xylene #2

R.T.: 22.037 min
Delta R.T.: 0.003 min
Response: 43879
Conc: 3.18 ppb



#21 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.001 min
Response: 7446
Conc: 0.64 ppb



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

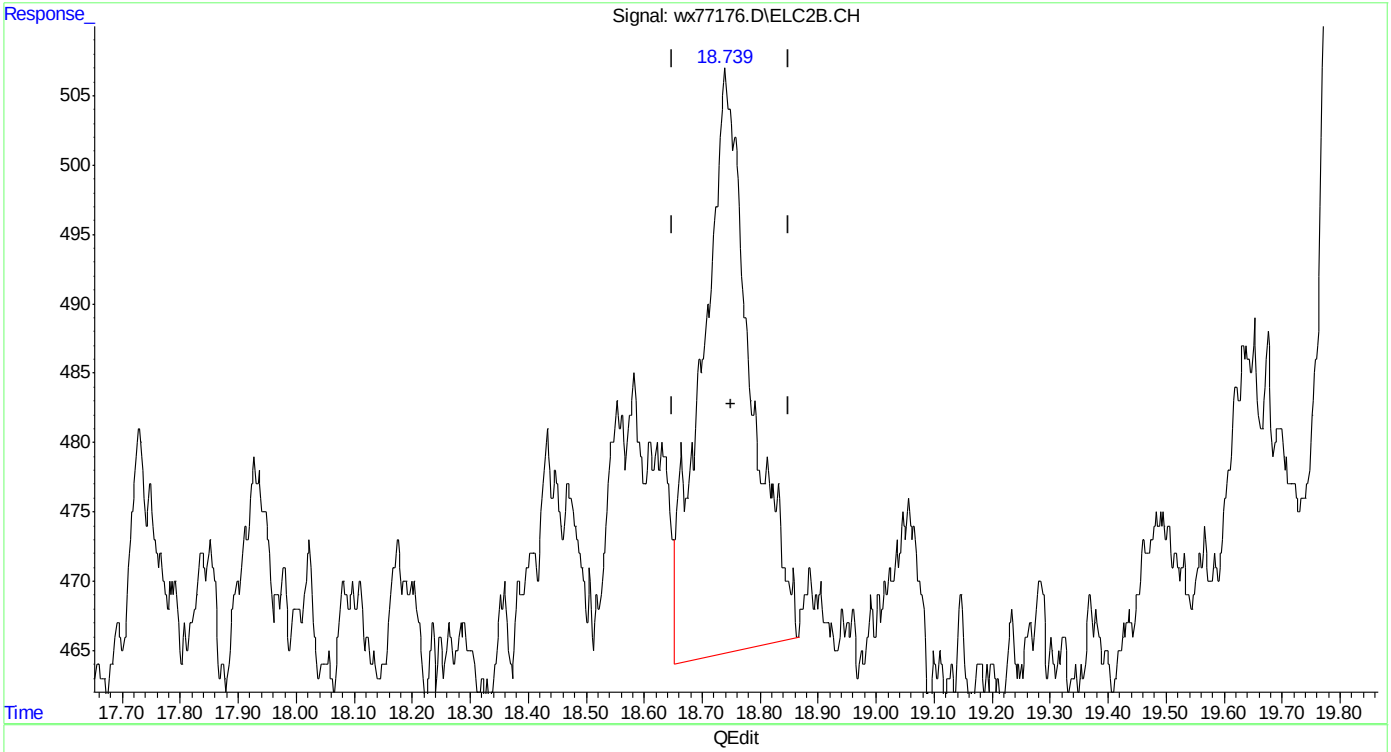
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 111623
Conc: 8.83 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:00:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.742min 0.188 ppb
response 2416

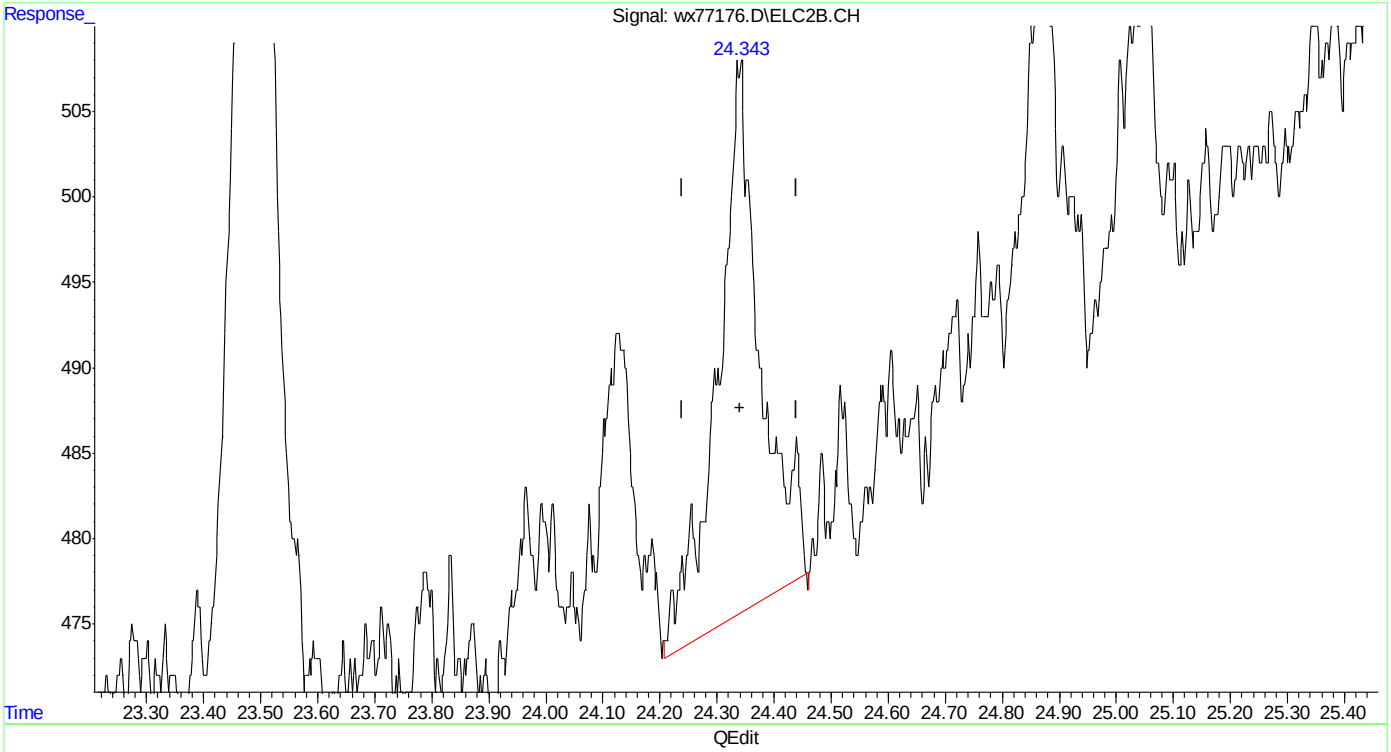
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 13:01:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:00:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(22) 1,3,5-trimethylbenzene #2 (t)
24.340min 0.101 ppb
response 1715

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 13:01:42 2016

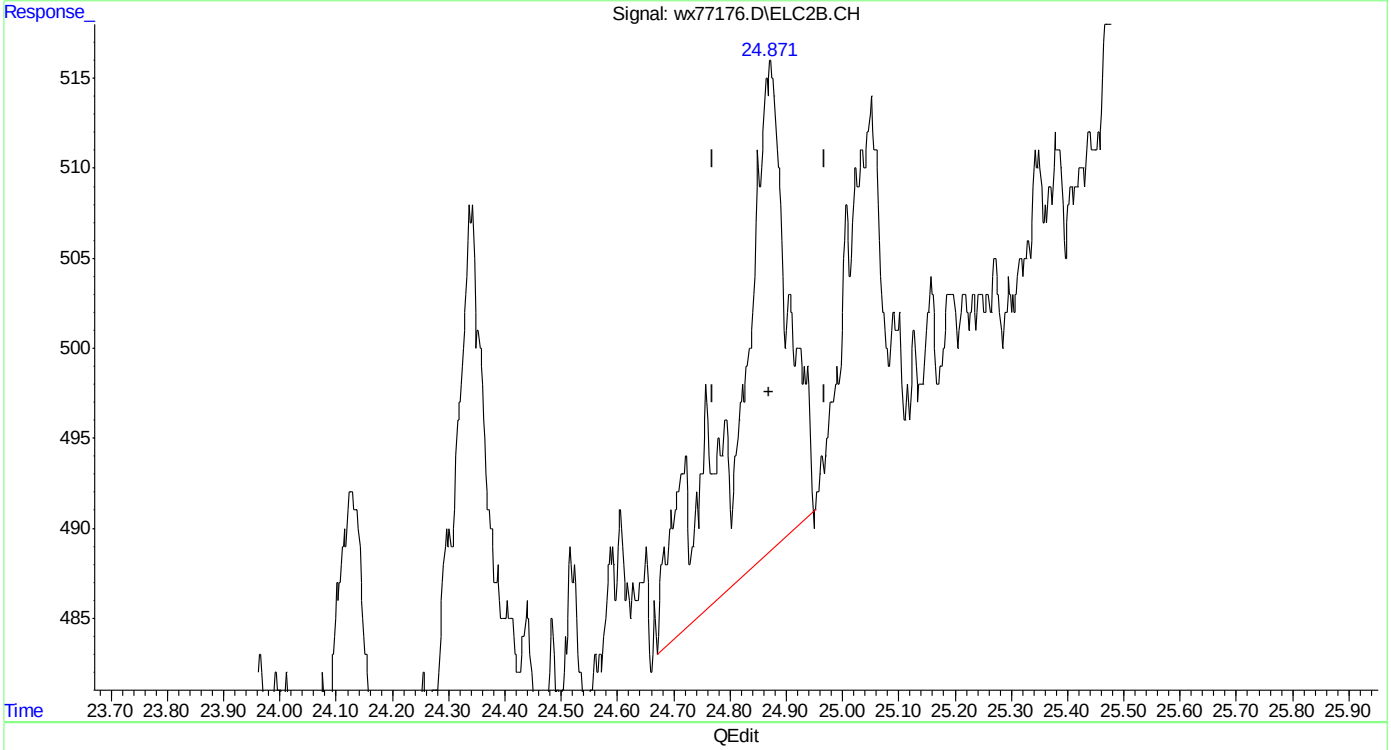
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:00:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.872min 0.141 ppb
response 1783

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 13:01:48 2016

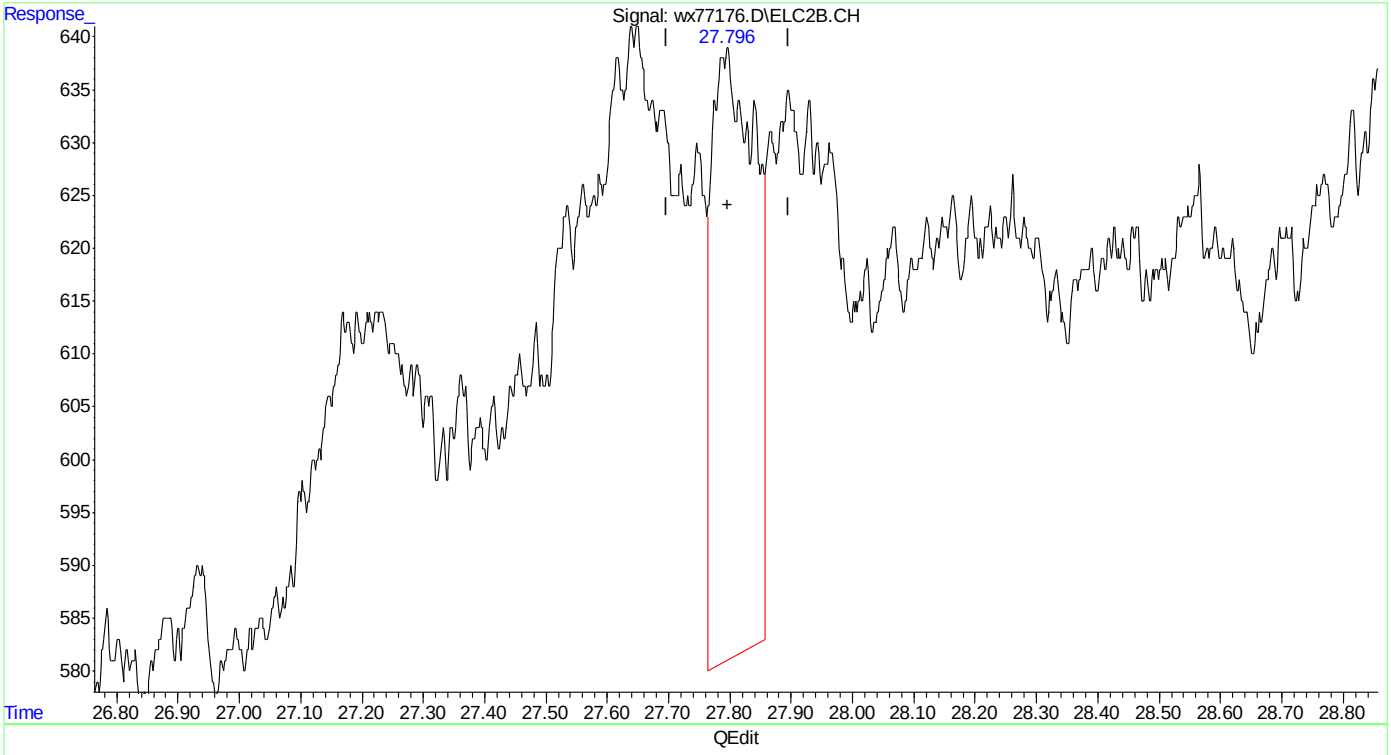
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77176.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:21 pm
Operator : tonyf
Sample : mc46423-5,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:00:56 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.793min 0.324 ppb
response 2882

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77177.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:58 pm
Operator : tonyf
Sample : mc46423-6,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:30:06 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.745	1355958	47.982 ppb
Spiked Amount 50.000		Recovery	= 95.96%
6) s 2,3,4-trifluorotoluene	19.883	1100185	48.010 ppb
Spiked Amount 50.000		Recovery	= 96.02%
16) s fluorobenzene #2	14.745	430474	47.215 ppb
Spiked Amount 50.000		Recovery	= 94.43%
18) s 2,3,4-trifluorotoluen...	19.883	254235	46.549 ppb
Spiked Amount 50.000		Recovery	= 93.10%
Target Compounds			
1) h rt5.5-7	6.100	51043	2.157 ppb
2) h rt7/10	8.370	60298	2.548 ppb
3) h rt10/13	13.510	533426	22.543 ppb
8) h rt20/25	21.600	809109557	22574.440 ppb
15) benzene #2	14.233	4171	0.294 ppb
17) toluene #2	18.745	8707	0.677 ppb
19) ethylbenzene #2	21.911	57850343	5053.865 ppb
20) m,p-xylene #2	22.090f	152207943	11015.625 ppb
21) o-xylene #2	22.848	10443295	899.159 ppb
23) 1,2,4-trimethylbenzen...	24.871	79807	6.311 ppb
24) naphthalene #2	27.798	29014	3.257 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1270235	100.493 ppb

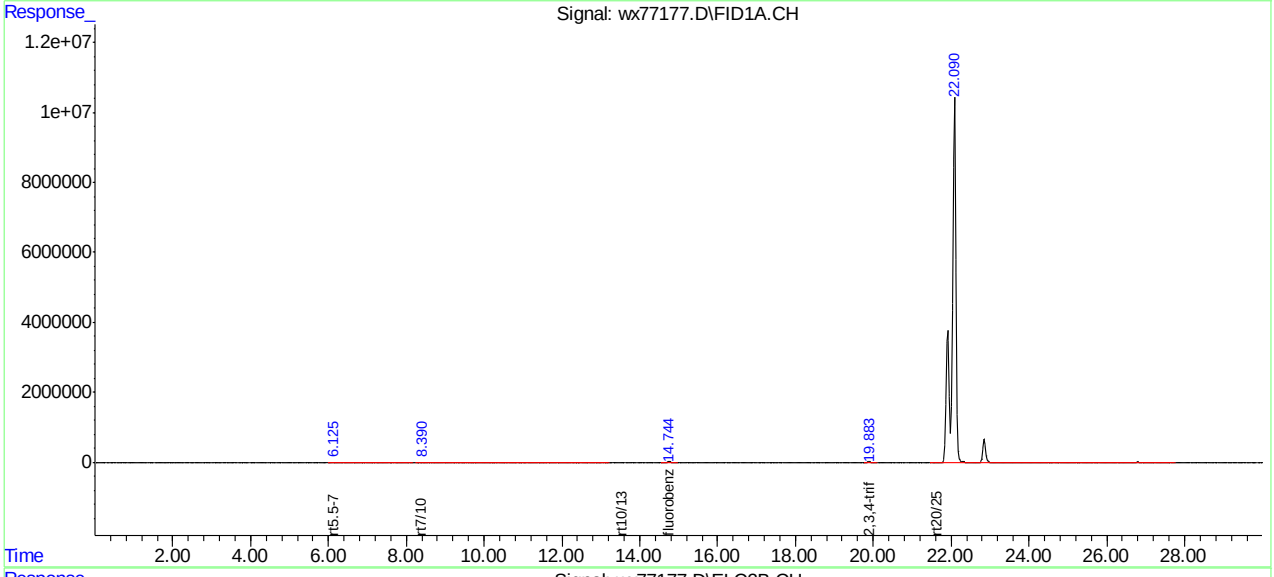
(f)=RT Delta > 1/2 Window (m)=manual int.

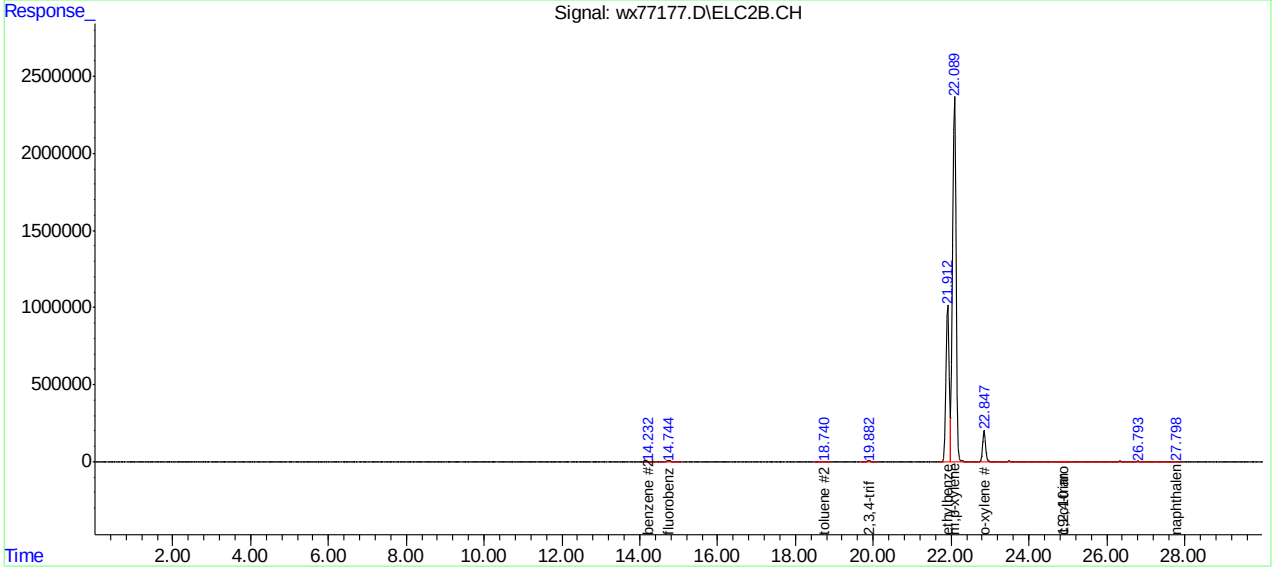
Quantitation Report (QT Reviewed)

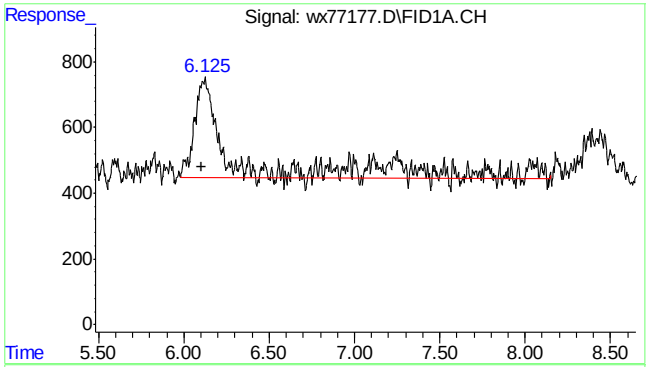
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77177.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:58 pm
Operator : tonyf
Sample : mc46423-6,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:30:06 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

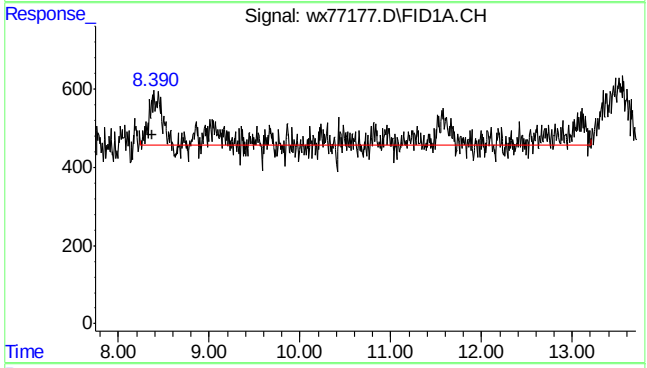






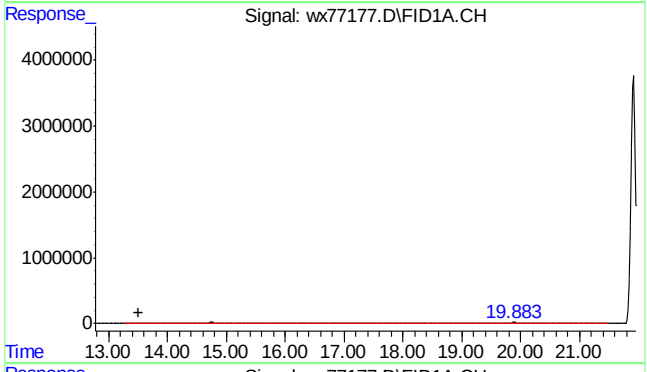
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 51043
Conc: 2.16 ppb m



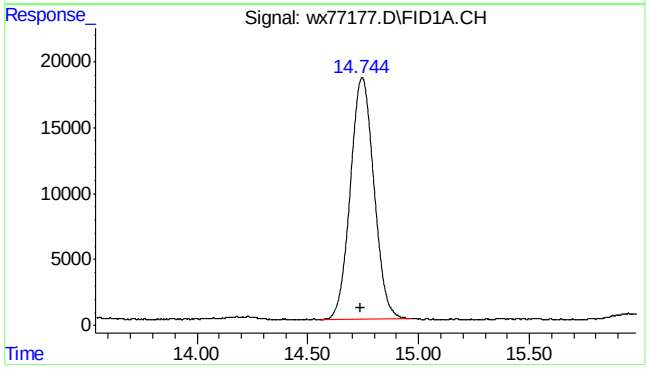
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 60298
Conc: 2.55 ppb m



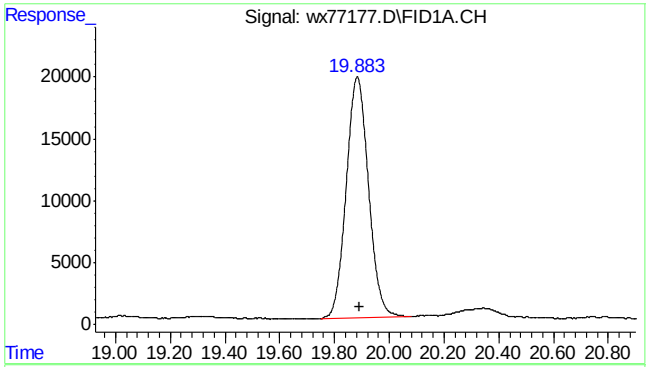
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 533426
Conc: 22.54 ppb m



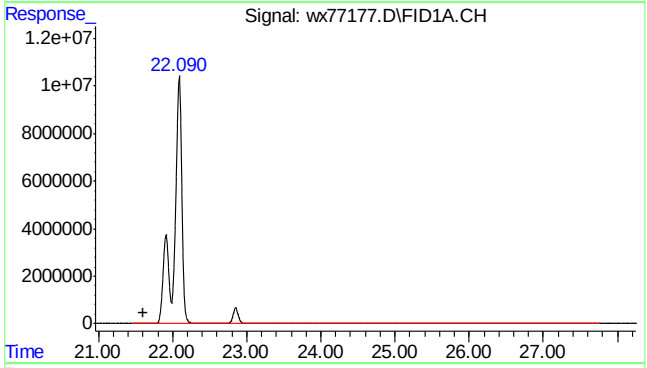
#4 fluorobenzene

R.T.: 14.745 min
Delta R.T.: 0.007 min
Response: 1355958
Conc: 47.98 ppb



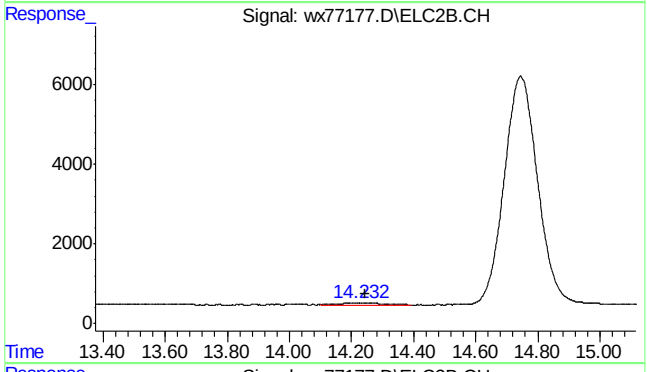
#6 2,3,4-trifluorotoluene

R.T.: 19.883 min
Delta R.T.: -0.007 min
Response: 1100185
Conc: 48.01 ppb



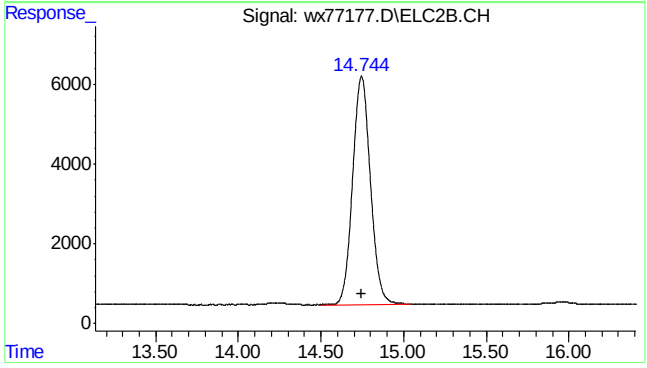
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 809109557
Conc: 22574.44 ppb m



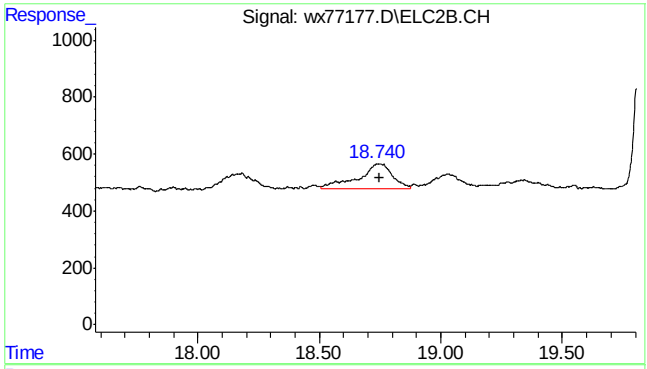
#15 benzene #2

R.T.: 14.233 min
Delta R.T.: -0.012 min
Response: 4171
Conc: 0.29 ppb



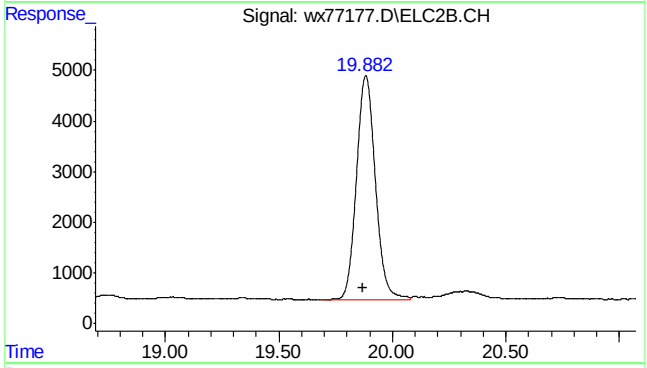
#16 fluorobenzene #2

R.T.: 14.745 min
Delta R.T.: 0.001 min
Response: 430474
Conc: 47.21 ppb



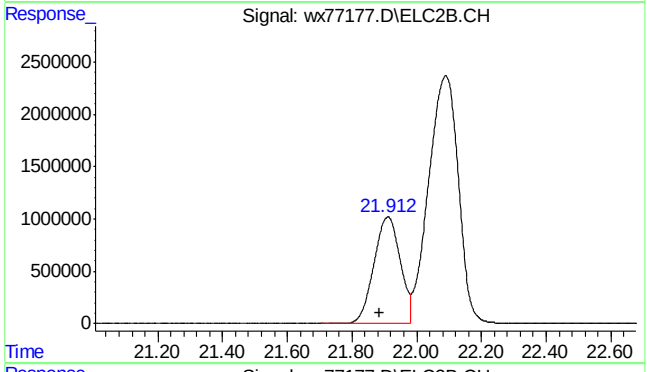
#17 toluene #2

R.T.: 18.745 min
Delta R.T.: -0.004 min
Response: 8707
Conc: 0.68 ppb



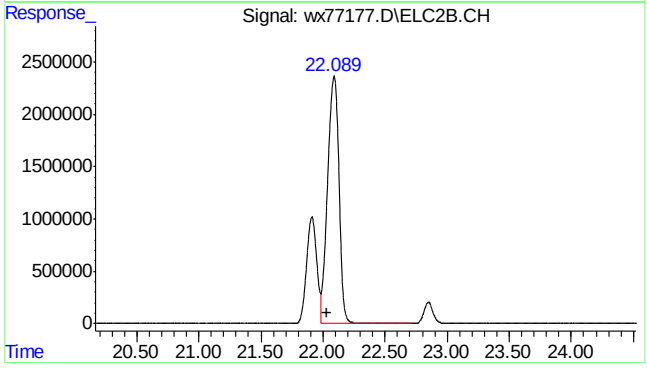
#18 2,3,4-trifluorotoluene #2

R.T.: 19.883 min
Delta R.T.: 0.014 min
Response: 254235
Conc: 46.55 ppb



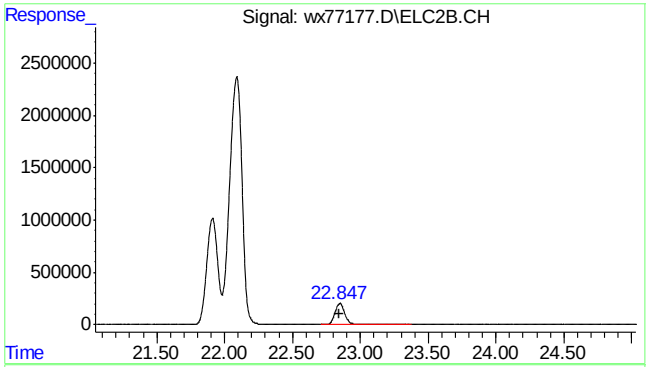
#19 ethylbenzene #2

R.T.: 21.911 min
Delta R.T.: 0.025 min
Response: 57850343
Conc: 5053.86 ppb



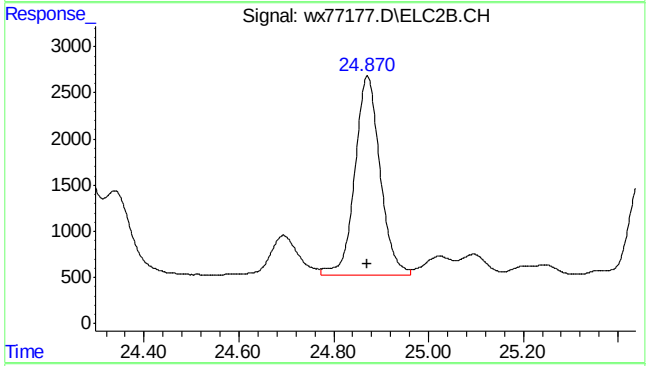
#20 m,p-xylene #2

R.T.: 22.090 min
Delta R.T.: 0.056 min
Response: 152207943
Conc: 11015.63 ppb



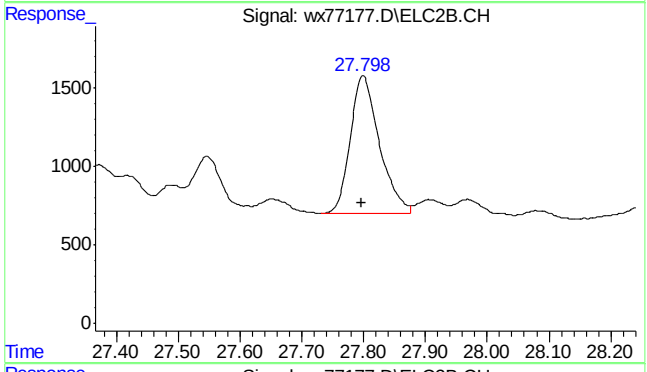
#21 o-xylene #2

R.T.: 22.848 min
Delta R.T.: 0.006 min
Response: 10443295
Conc: 899.16 ppb



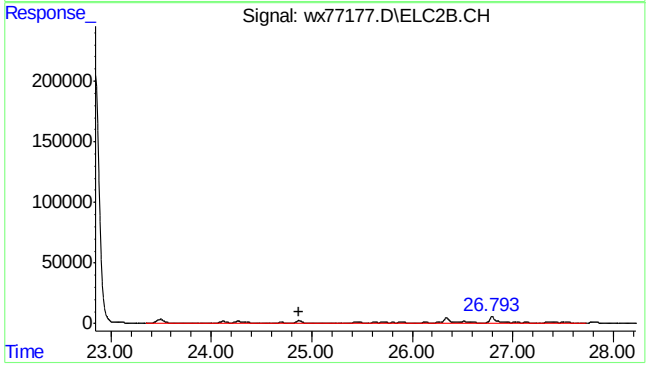
#23 1,2,4-trimethylbenzene #2

R.T.: 24.871 min
Delta R.T.: 0.001 min
Response: 79807
Conc: 6.31 ppb



#24 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.002 min
Response: 29014
Conc: 3.26 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1270235
Conc: 100.49 ppb m

7.1.7

7

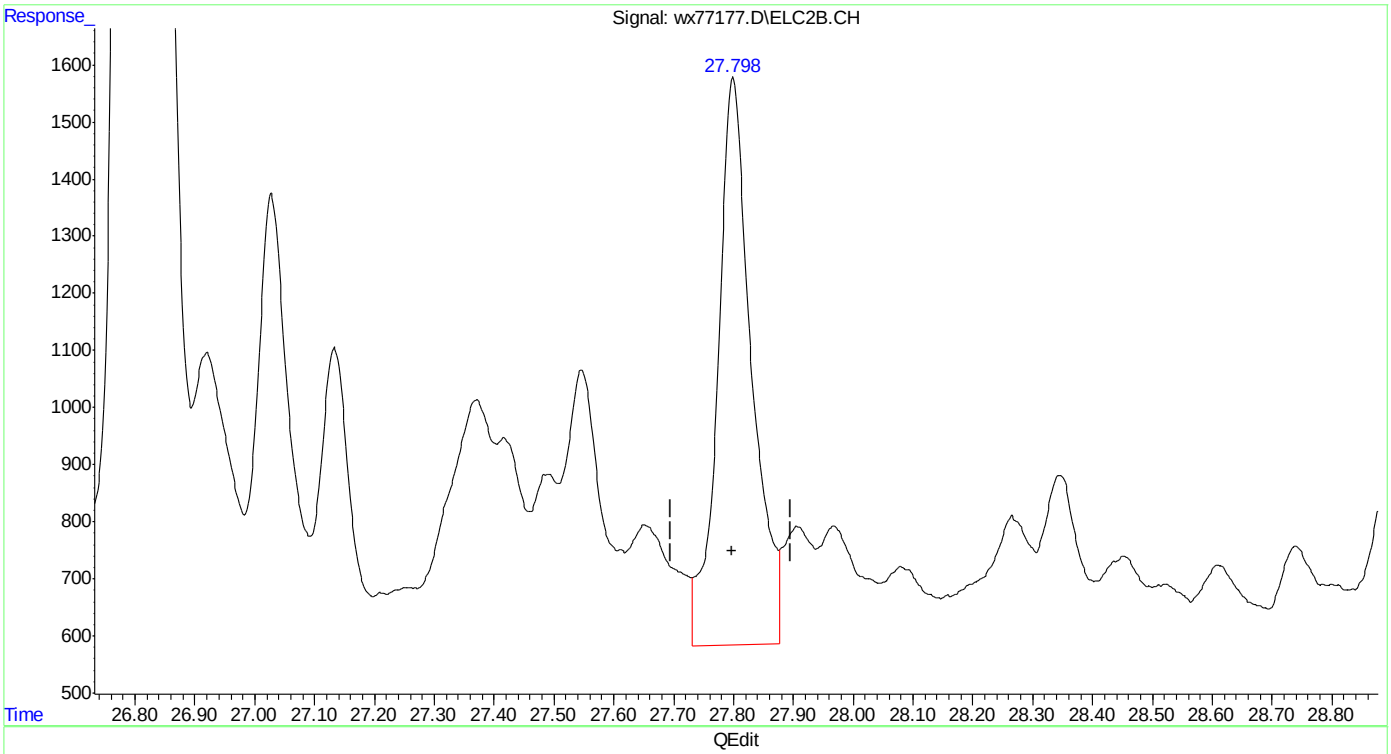
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77177.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:58 pm
Operator : tonyf
Sample : mc46423-6,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:29:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.799min 4.408 ppb
response 39262

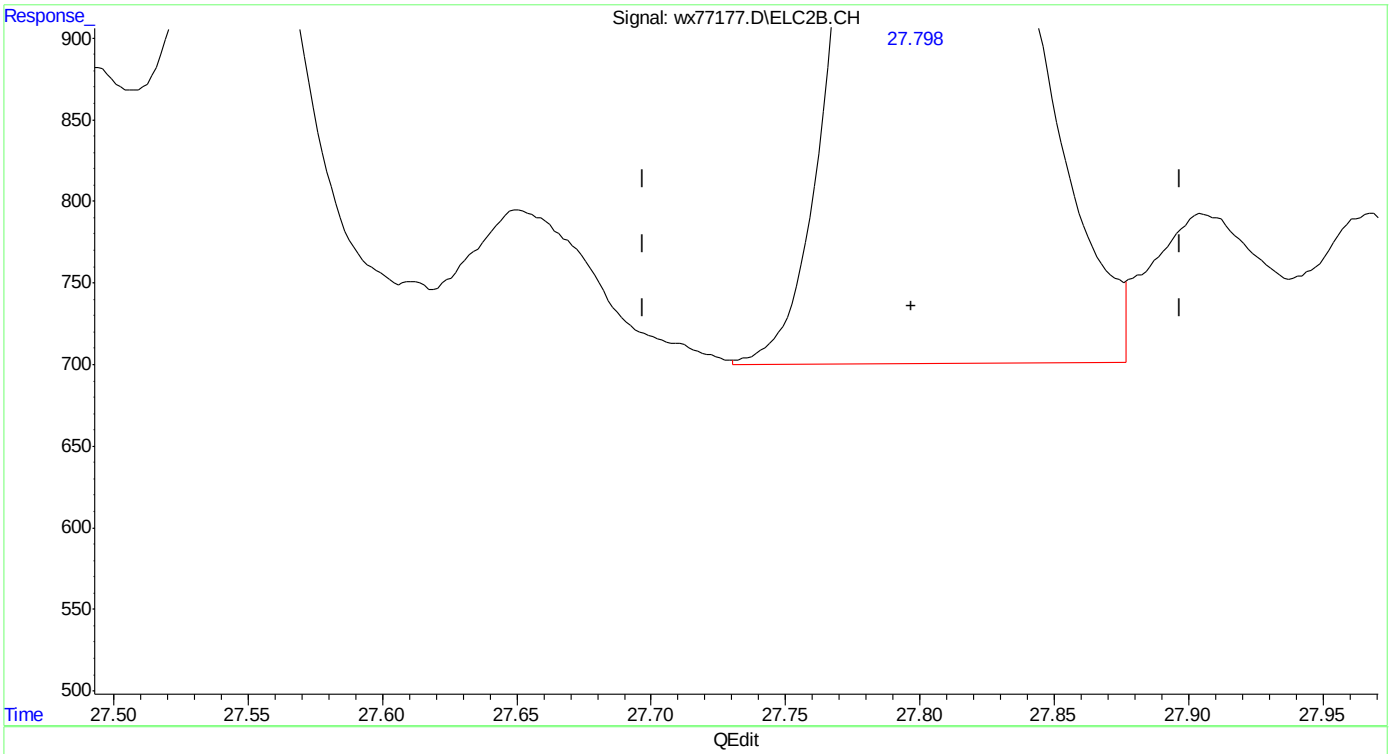
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 13:29:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77177.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 12:58 pm
Operator : tonyf
Sample : mc46423-6,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 13:29:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.798min 3.257 ppb m
response 29014

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 13:29:56 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
Operator : tonyf
Sample : mc46423-6,1:50,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:31:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.740	1319572	46.695	ppb	
Spiked Amount 50.000		Recovery = 93.39%			
6) s 2,3,4-trifluorotoluene	19.877	1083482	47.282	ppb	
Spiked Amount 50.000		Recovery = 94.56%			
16) s fluorobenzene #2	14.741	413427	45.345	ppb	
Spiked Amount 50.000		Recovery = 90.69%			
18) s 2,3,4-trifluorotoluen...	19.877	248593	45.516	ppb	
Spiked Amount 50.000		Recovery = 91.03%			
Target Compounds					
1) h rt5.5-7	6.100	28255	1.194	ppb	
2) h rt7/10	8.370	51083	2.159	ppb	
3) h rt10/13	13.510	84517	3.572	ppb	
8) h rt20/25	21.600	13955835	389.373	ppb	
15) benzene #2	14.224	1943	0.137	ppb	m
17) toluene #2	18.734	2496	0.194	ppb	m
19) ethylbenzene #2	21.883	1088827	95.121	ppb	
20) m,p-xylene #2	22.032	3771544	272.955	ppb	
21) o-xylene #2	22.840	208275	17.932	ppb	
23) 1,2,4-trimethylbenzen...	24.866	3622	0.286	ppb	m
24) naphthalene #2	27.803	2211	0.248	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	136905	10.831	ppb	

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

Quantitation Report (QT Reviewed)

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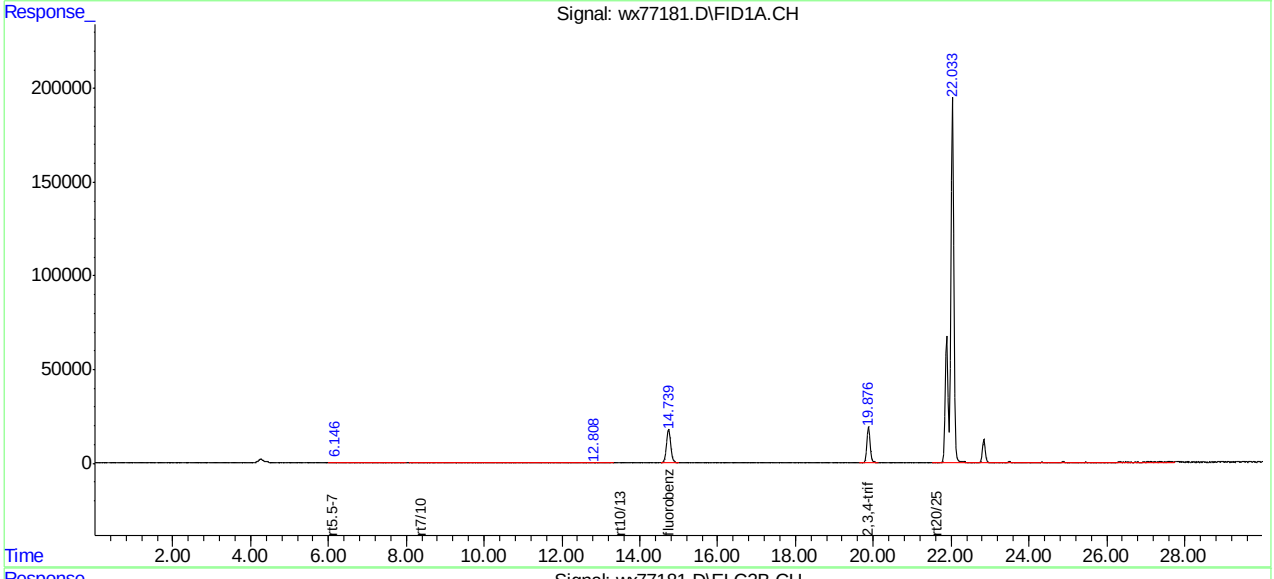
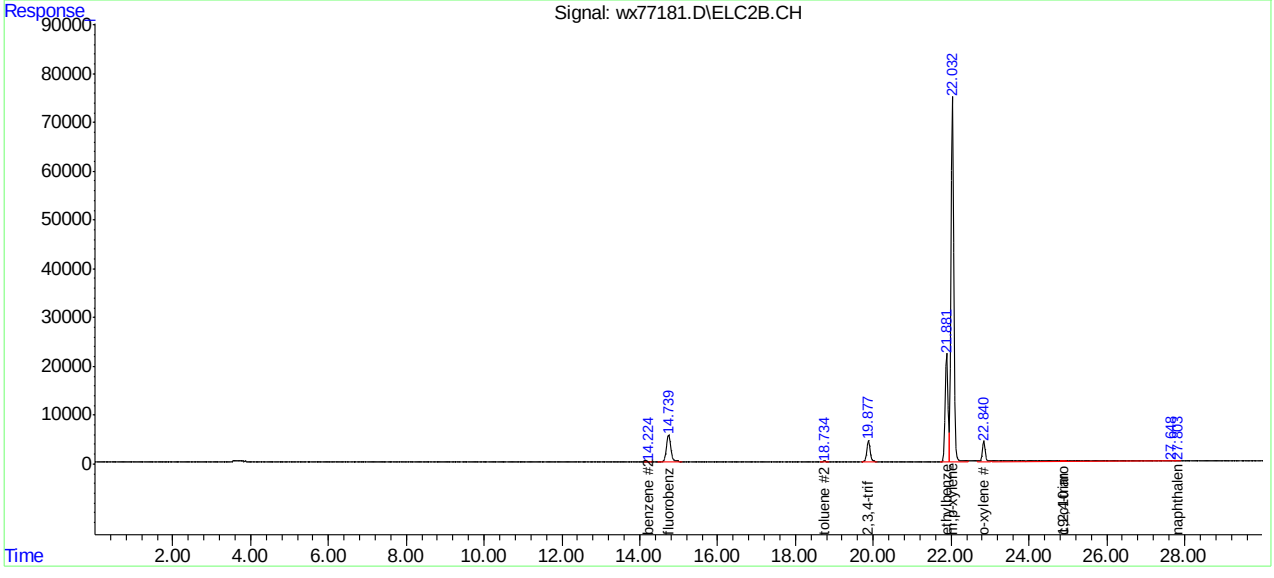
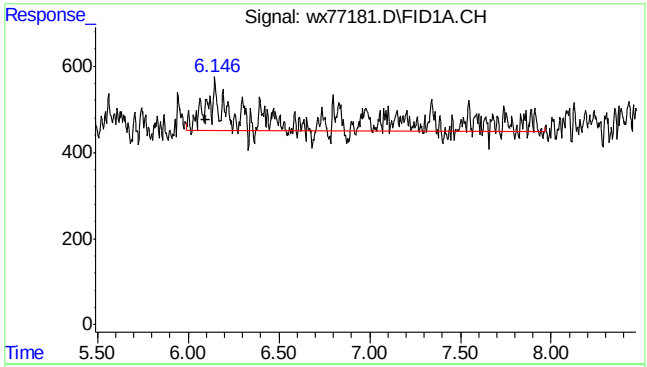
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

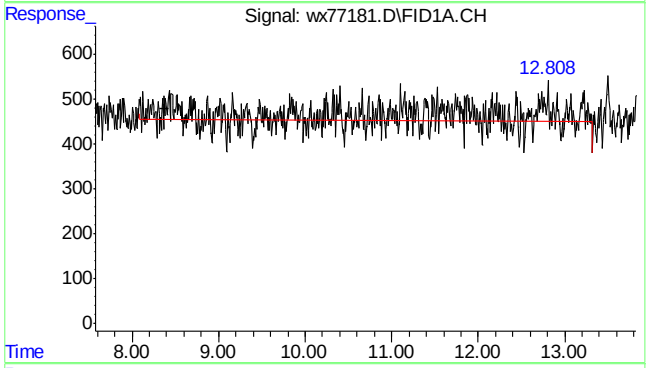






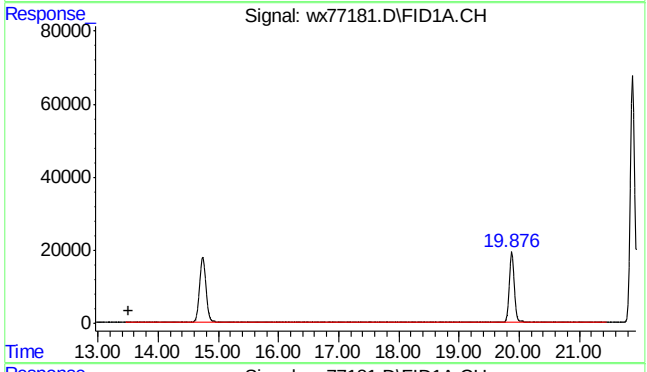
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 28255
Conc: 1.19 ppb m



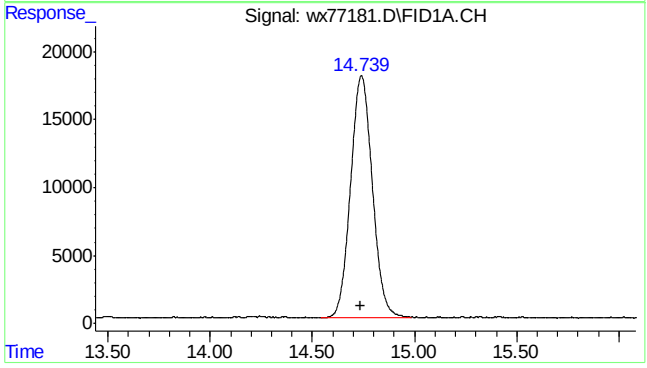
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 51083
Conc: 2.16 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 84517
Conc: 3.57 ppb m



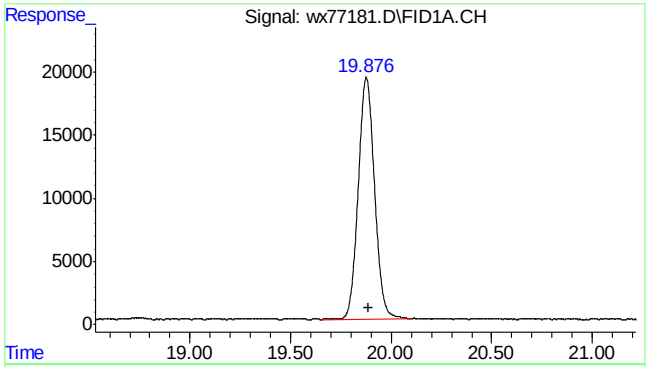
#4 fluorobenzene

R.T.: 14.740 min
Delta R.T.: 0.001 min
Response: 1319572
Conc: 46.69 ppb

7.1.8

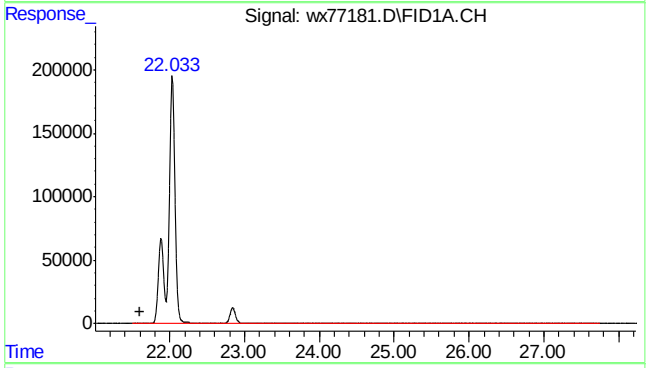
7

SGS ACCUTEST MC46423



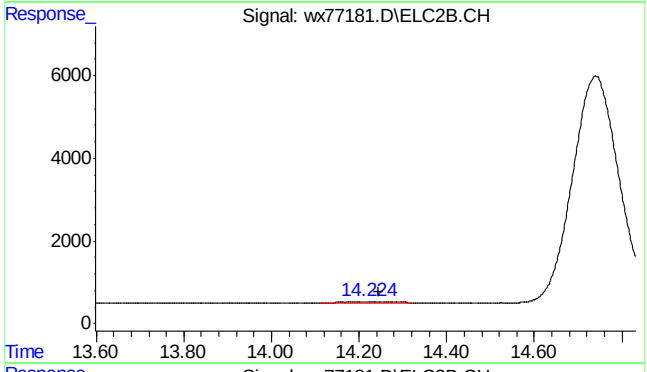
#6 2,3,4-trifluorotoluene

R.T.: 19.877 min
Delta R.T.: -0.013 min
Response: 1083482
Conc: 47.28 ppb



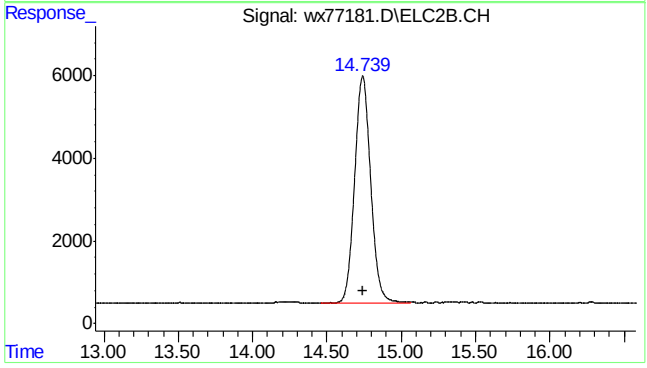
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 13955835
Conc: 389.37 ppb m



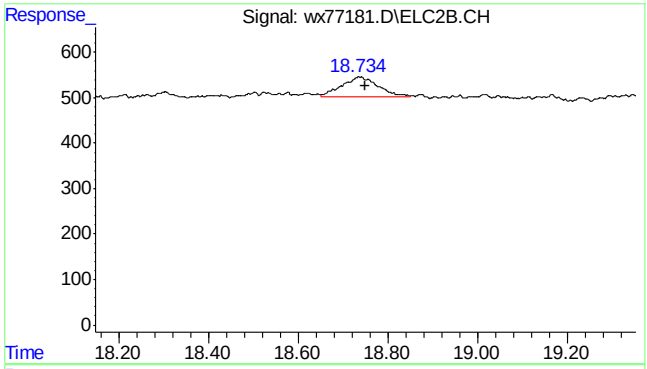
#15 benzene #2

R.T.: 14.224 min
Delta R.T.: -0.021 min
Response: 1943
Conc: 0.14 ppb m



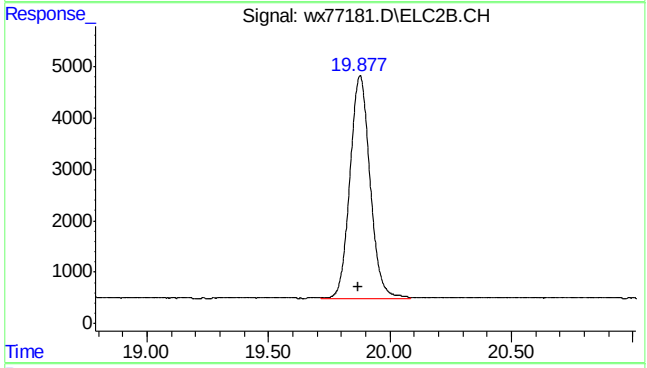
#16 fluorobenzene #2

R.T.: 14.741 min
Delta R.T.: -0.003 min
Response: 413427
Conc: 45.34 ppb



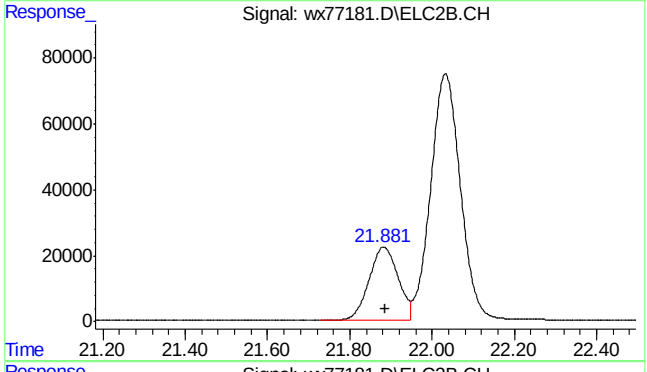
#17 toluene #2

R.T.: 18.734 min
Delta R.T.: -0.015 min
Response: 2496
Conc: 0.19 ppb m



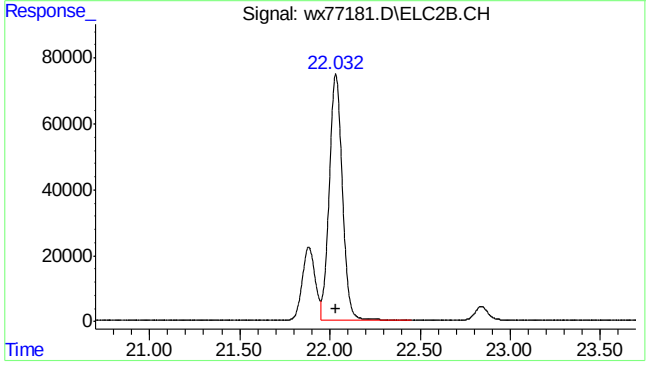
#18 2,3,4-trifluorotoluene #2

R.T.: 19.877 min
Delta R.T.: 0.008 min
Response: 248593
Conc: 45.52 ppb



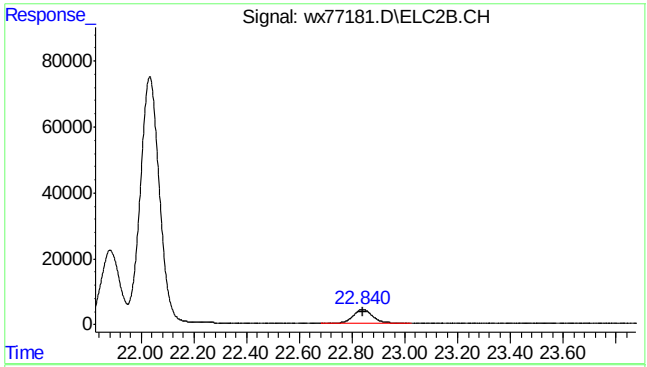
#19 ethylbenzene #2

R.T.: 21.883 min
Delta R.T.: -0.003 min
Response: 1088827
Conc: 95.12 ppb



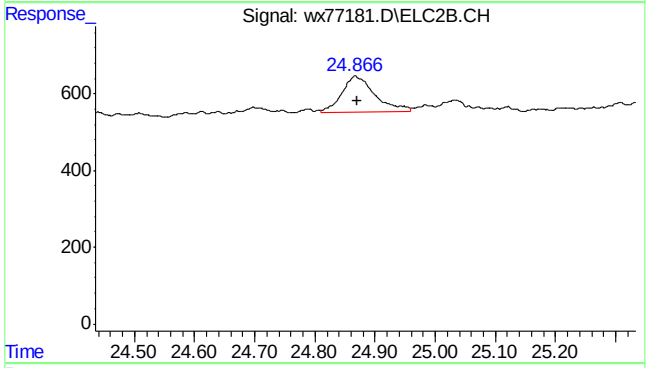
#20 m,p-xylene #2

R.T.: 22.032 min
Delta R.T.: -0.002 min
Response: 3771544
Conc: 272.95 ppb



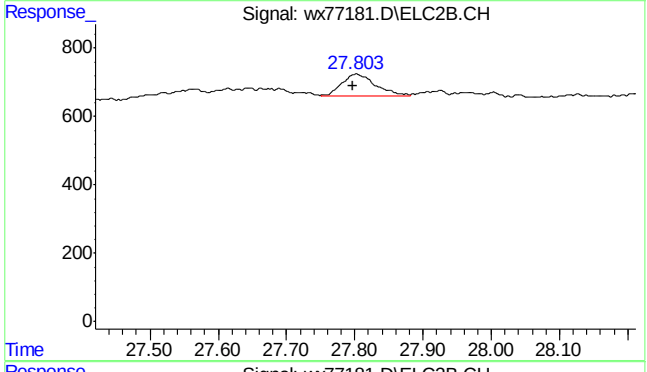
#21 o-xylene #2

R.T.: 22.840 min
Delta R.T.: -0.003 min
Response: 208275
Conc: 17.93 ppb



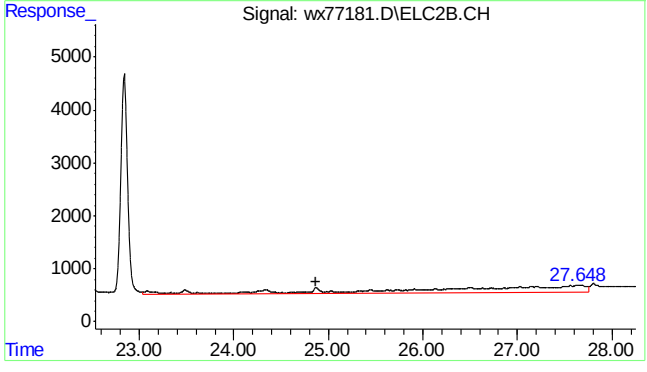
#23 1,2,4-trimethylbenzene #2

R.T.: 24.866 min
Delta R.T.: -0.004 min
Response: 3622
Conc: 0.29 ppb m



#24 naphthalene #2

R.T.: 27.803 min
Delta R.T.: 0.006 min
Response: 2211
Conc: 0.25 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 136905
Conc: 10.83 ppb m

7.1.8

7

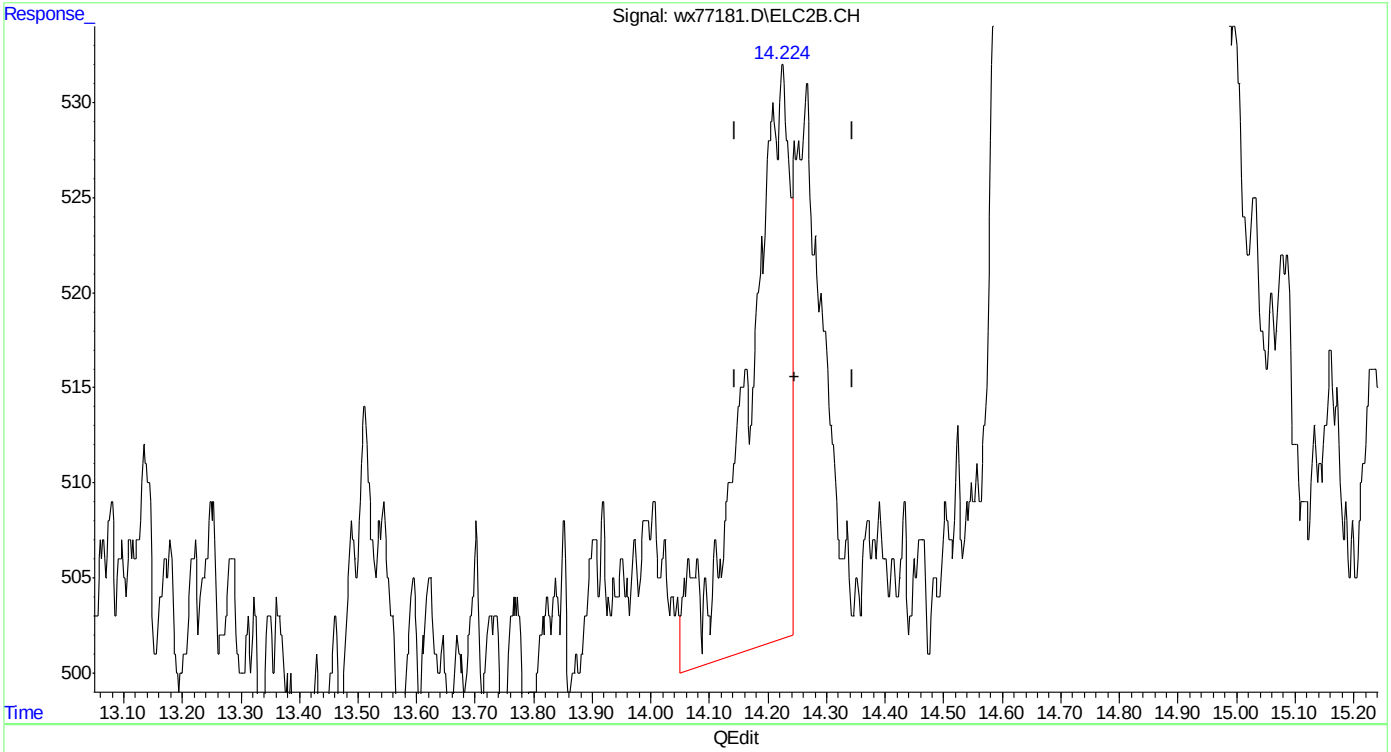
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
Operator : tonyf
Sample : mc46423-6,1:50,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:29:38 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.225min 0.102 ppb
response 1448

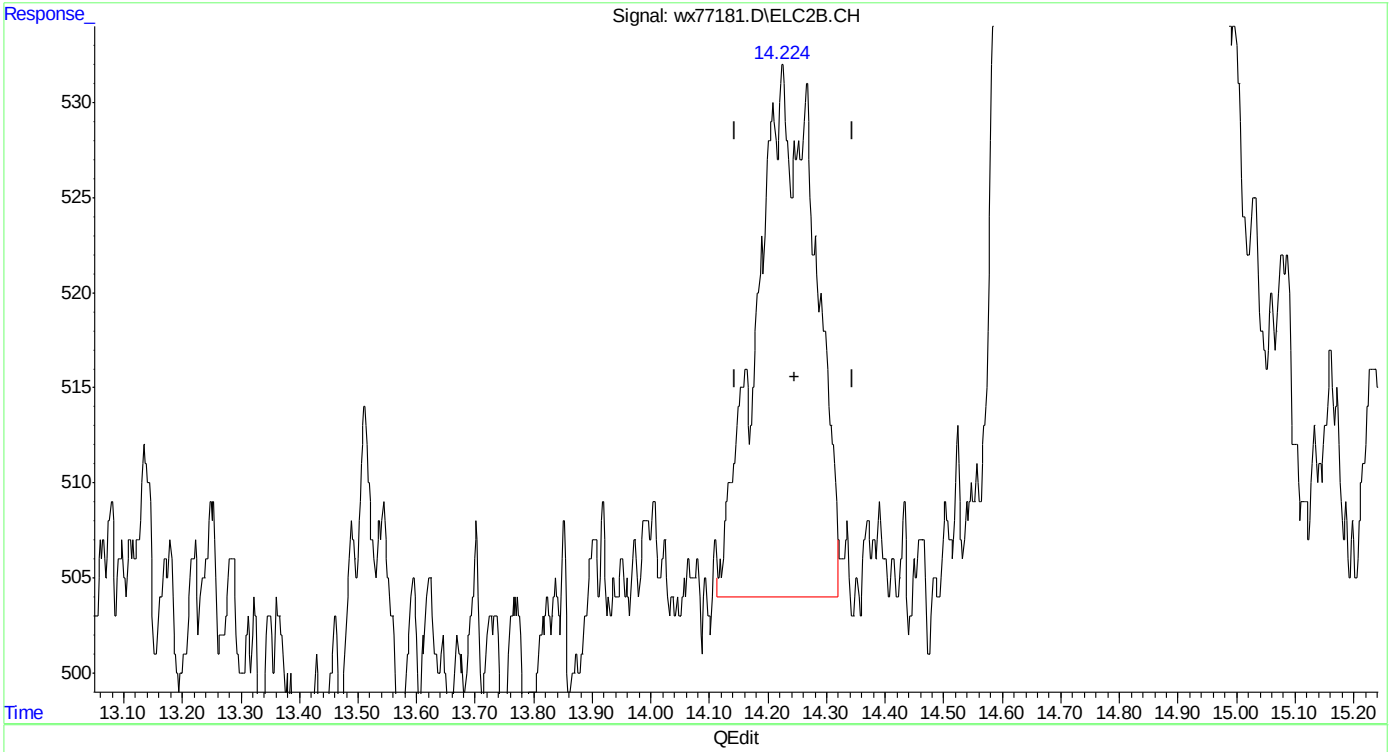
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
Operator : tonyf
Sample : mc46423-6,1:50,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:29:38 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.224min 0.137 ppb m
response 1943

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
Operator : tonyf
Sample : mc46423-6,1:50,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

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Signal #1 Phase : Signal #2 Phase:
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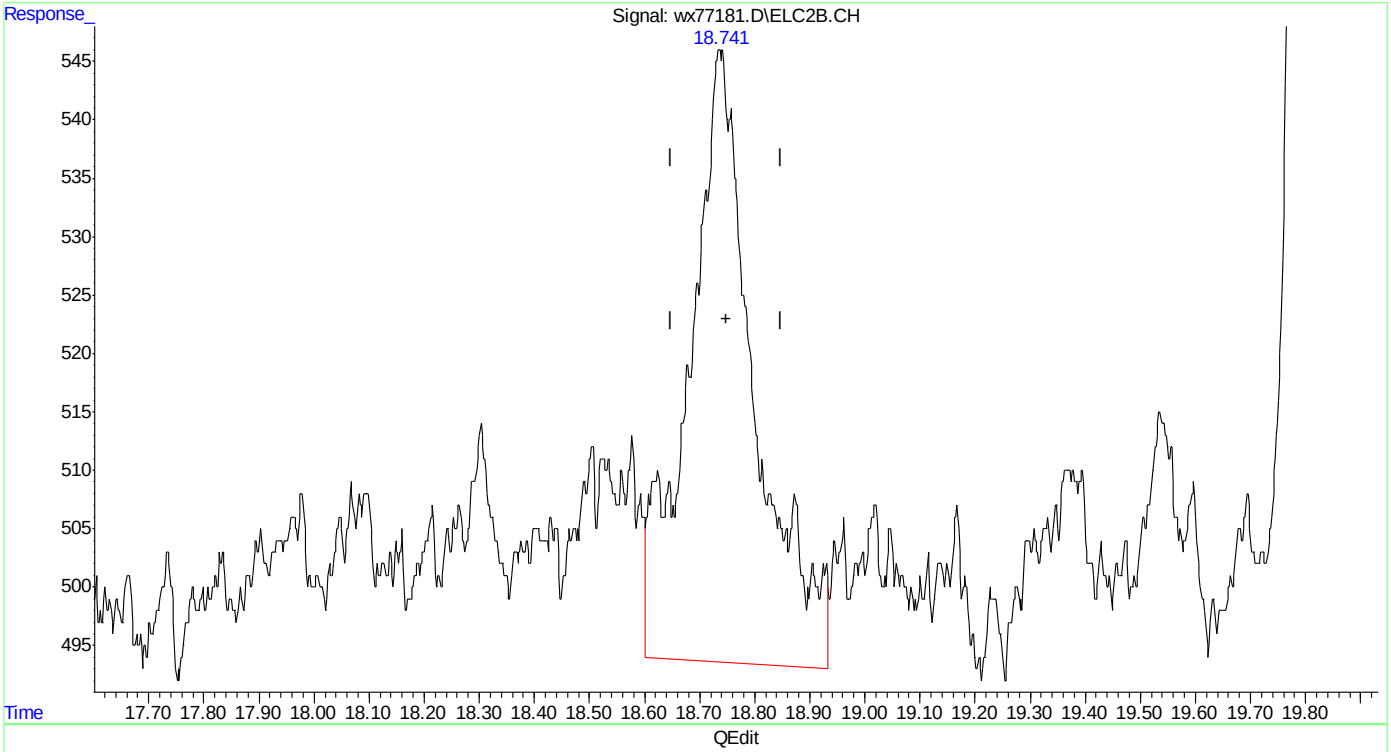

(17) toluene #2
18.737min 0.331 ppb
response 4254

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:30:19 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
Operator : tonyf
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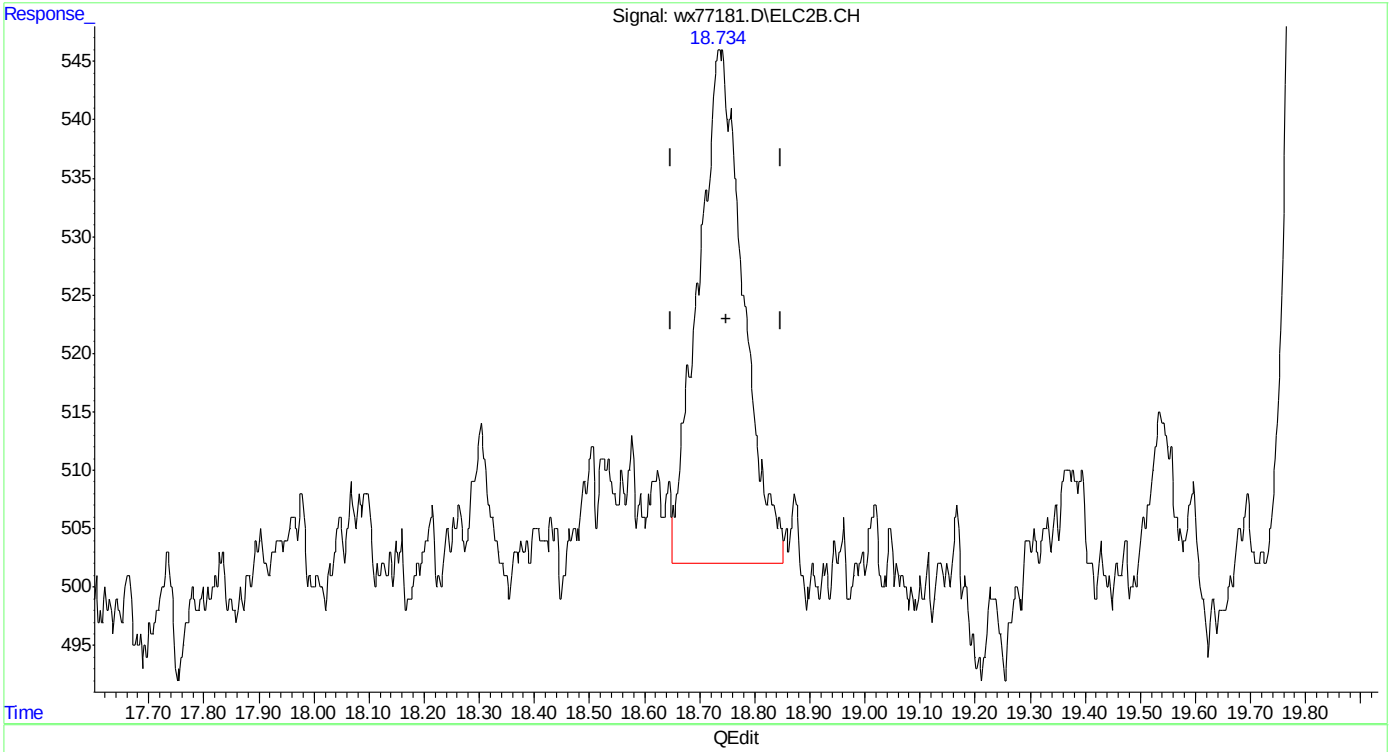
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:29:38 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) toluene #2
18.734min 0.194 ppb m
response 2496

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:30:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 3:27 pm
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Sample : mc46423-6,1:50,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,50
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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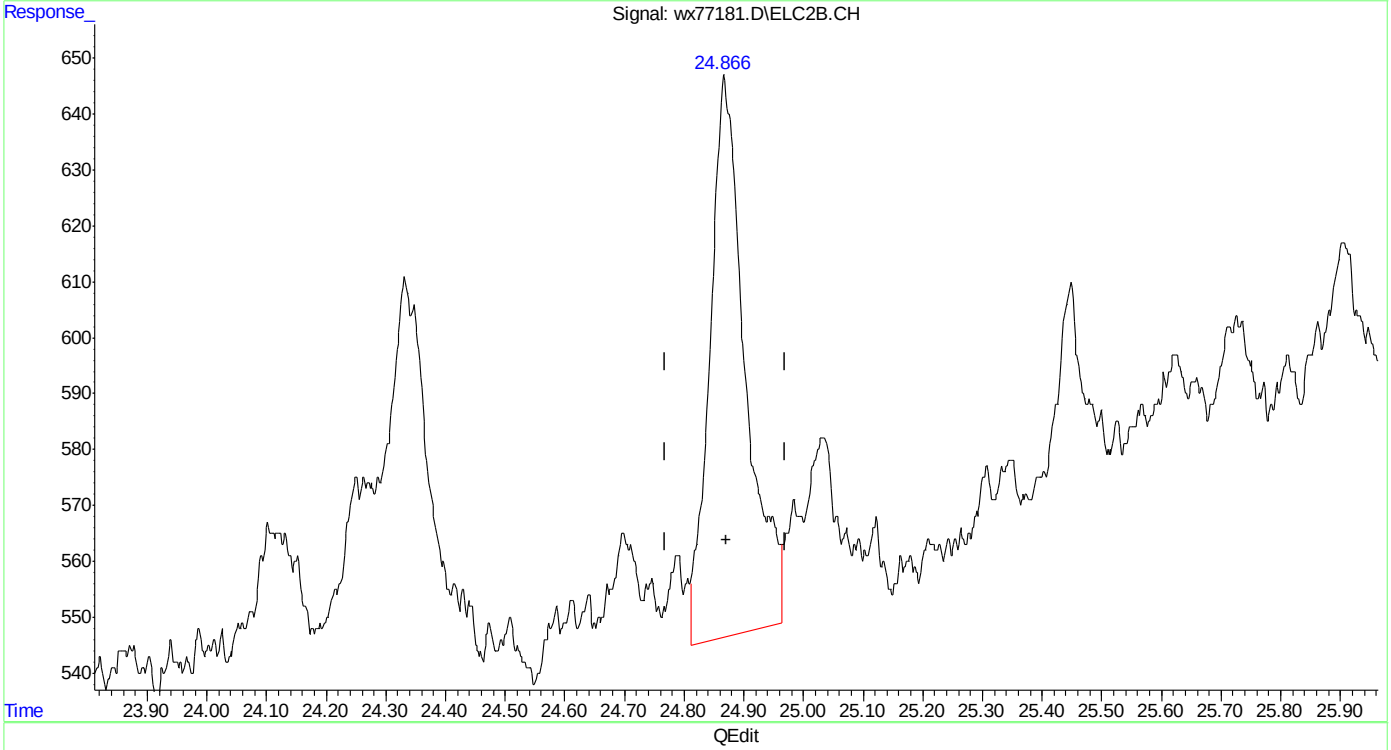
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.868min 0.325 ppb
response 4110

(+) = Expected Retention Time

Quantitation Report (Qedit)

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Misc : gc26383,gwx3796,,,,5,50
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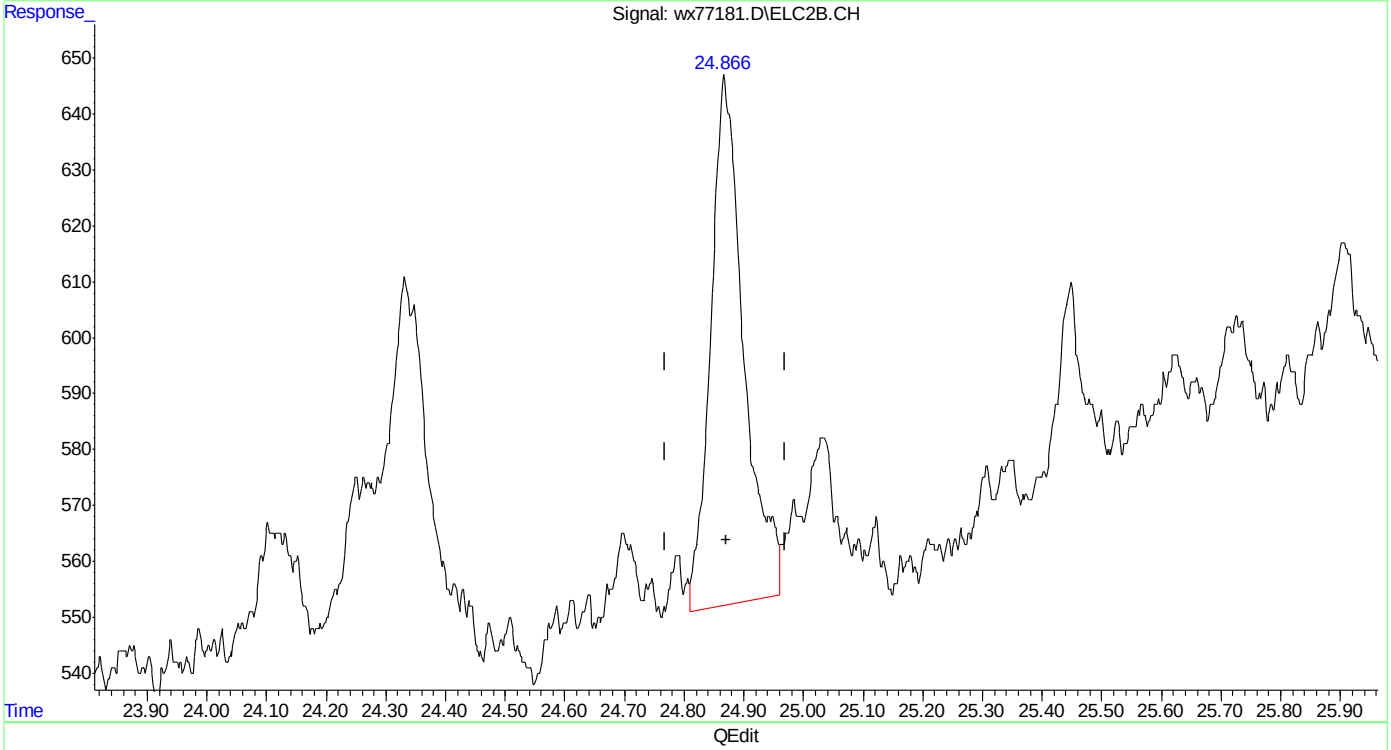

(23) 1,2,4-trimethylbenzene #2
24.866min 0.286 ppb m
response 3622

(+) = Expected Retention Time

Quantitation Report (Qedit)

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Misc : gc26383,gwx3796,,,,5,50
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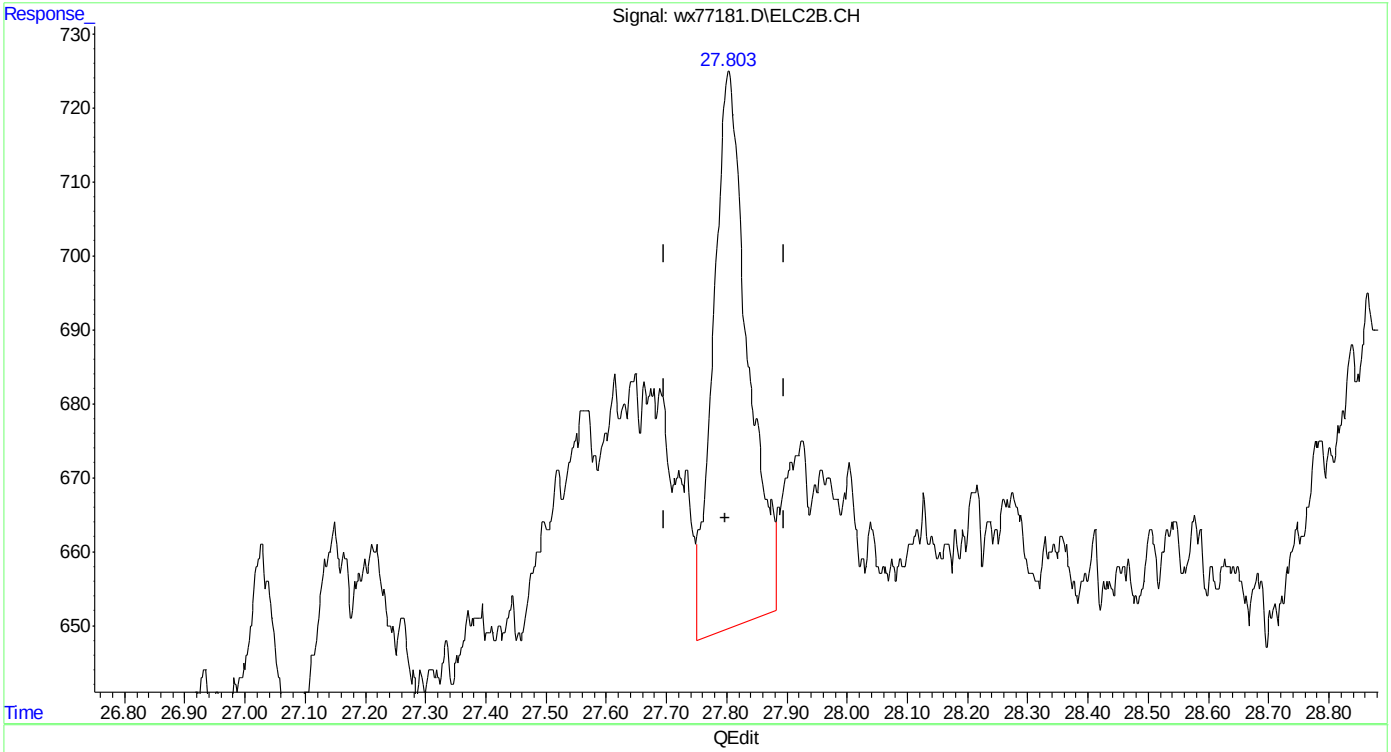
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
27.803min 0.337 ppb
response 3001

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:30:47 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77181.D
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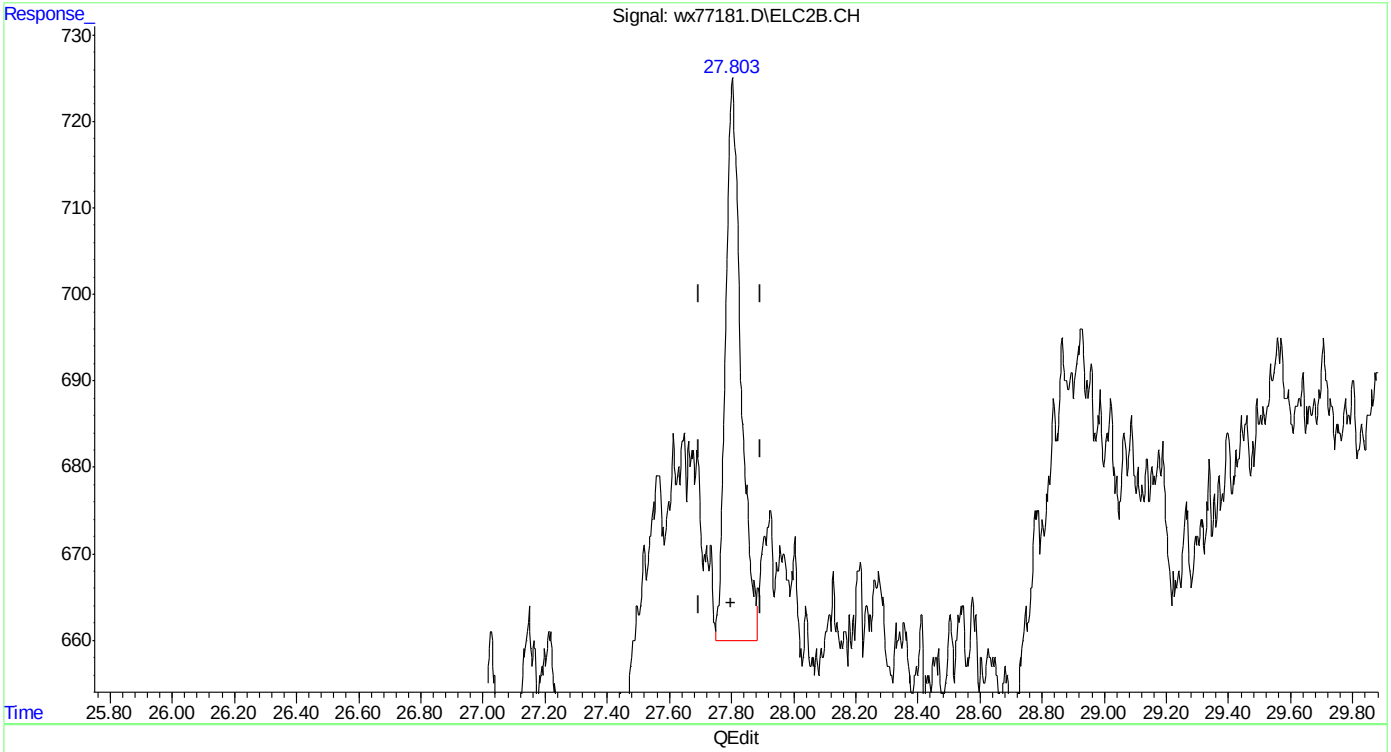
Signal #1 Info : Signal #2 Info :



(24) naphthalene #2
27.803min 0.248 ppb m
response 2211

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:30:55 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77182.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:03 pm
Operator : tonyf
Sample : mc46423-7,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:43:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.736	1314597	46.519 ppb
Spiked Amount 50.000		Recovery =	93.04%
6) s 2,3,4-trifluorotoluene	19.877	1080411	47.148 ppb
Spiked Amount 50.000		Recovery =	94.30%
16) s fluorobenzene #2	14.735	412707	45.266 ppb
Spiked Amount 50.000		Recovery =	90.53%
18) s 2,3,4-trifluorotoluen...	19.877	245775	45.000 ppb
Spiked Amount 50.000		Recovery =	90.00%
Target Compounds			
1) h rt5.5-7	6.100	27481	1.161 ppb
2) h rt7/10	8.370	36515	1.543 ppb
3) h rt10/13	13.510	102201	4.319 ppb
8) h rt20/25	21.600	169623	4.733 ppb
15) benzene #2	14.254	3864	0.272 ppb m
17) toluene #2	18.752	2252	0.175 ppb
19) ethylbenzene #2	21.887	4321	0.377 ppb
20) m,p-xylene #2	22.037	12250	0.887 ppb
21) o-xylene #2	22.839	2438	0.210 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	108645	8.595 ppb

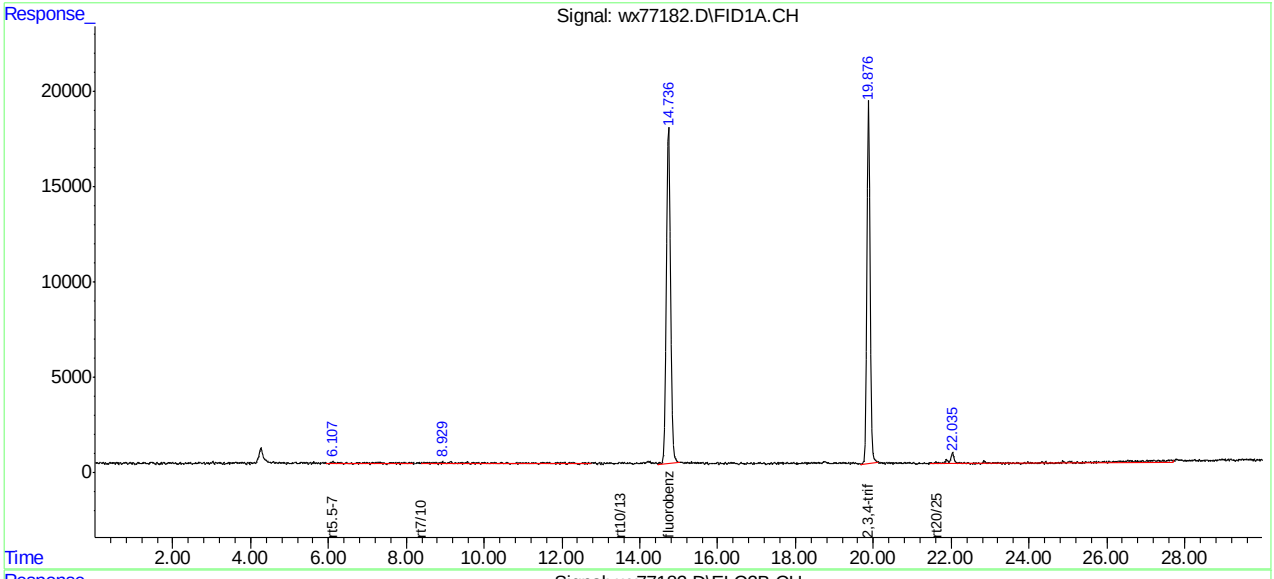
(f)=RT Delta > 1/2 Window (m)=manual int.

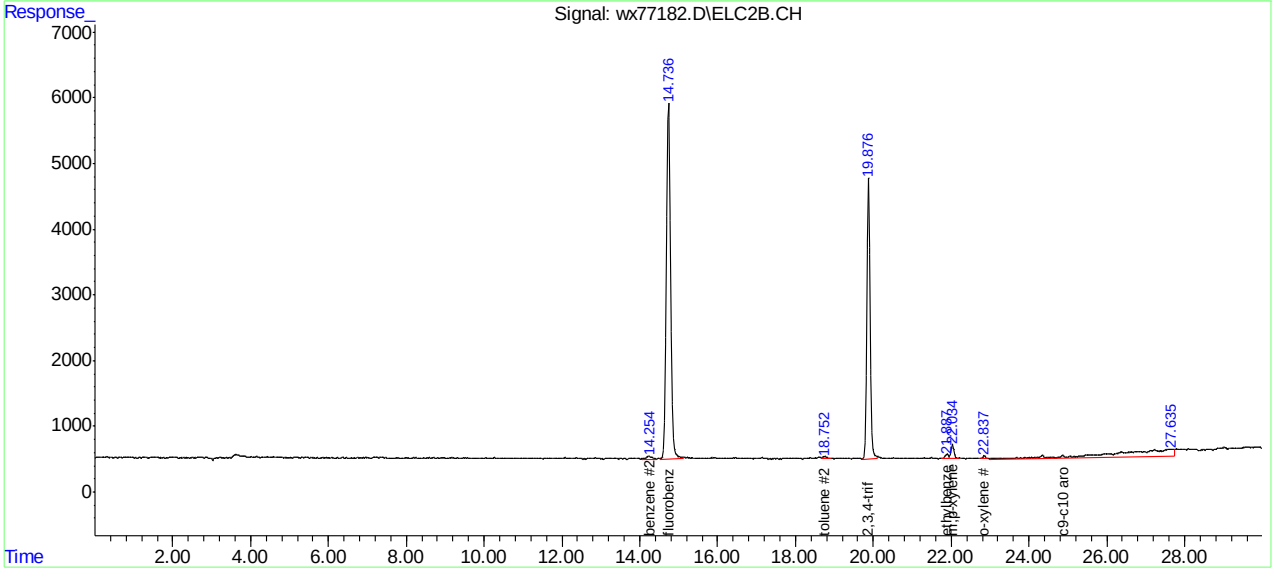
Quantitation Report (QT Reviewed)

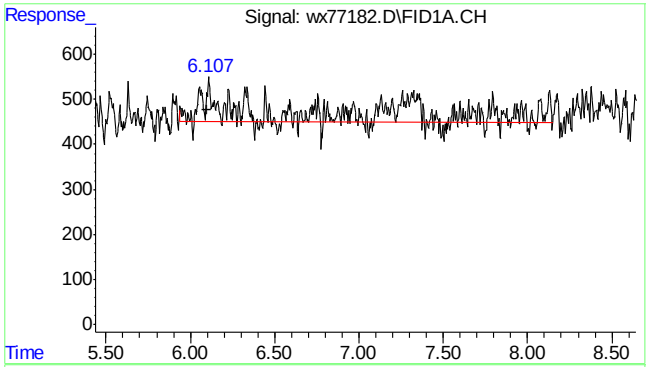
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77182.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:03 pm
Operator : tonyf
Sample : mc46423-7,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:43:15 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

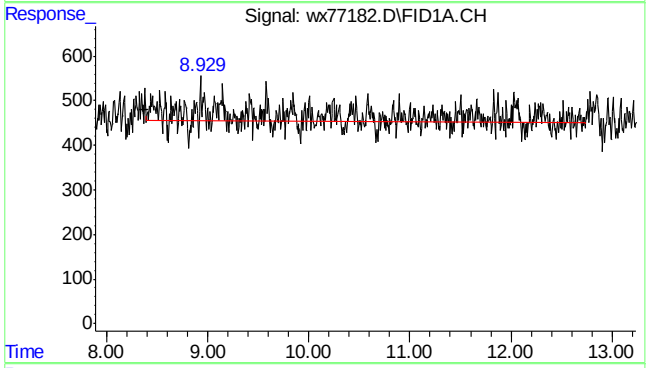






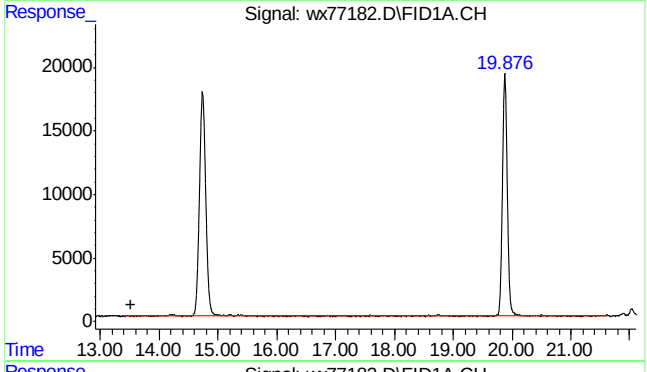
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 27481
Conc: 1.16 ppb m



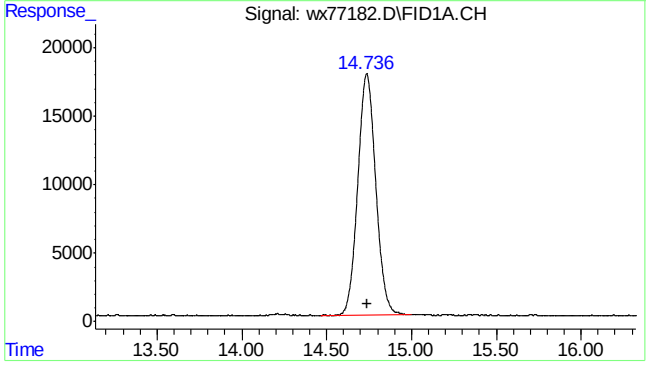
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 36515
Conc: 1.54 ppb m



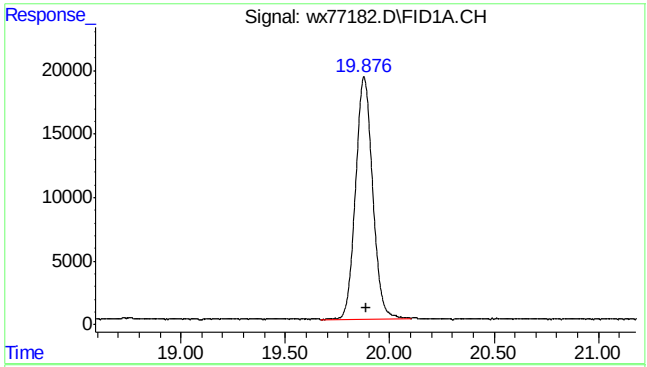
#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 102201
Conc: 4.32 ppb m



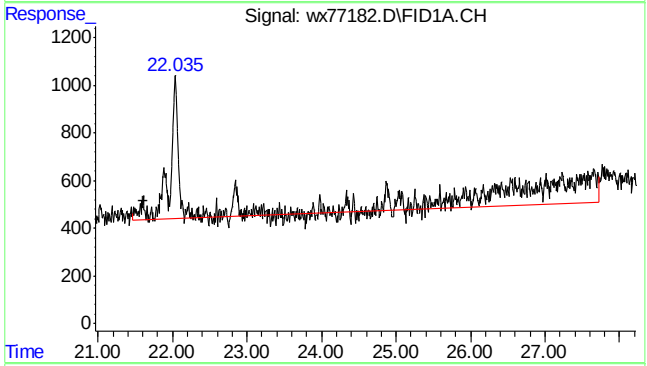
#4 fluorobenzene

R.T.: 14.736 min
Delta R.T.: -0.002 min
Response: 1314597
Conc: 46.52 ppb



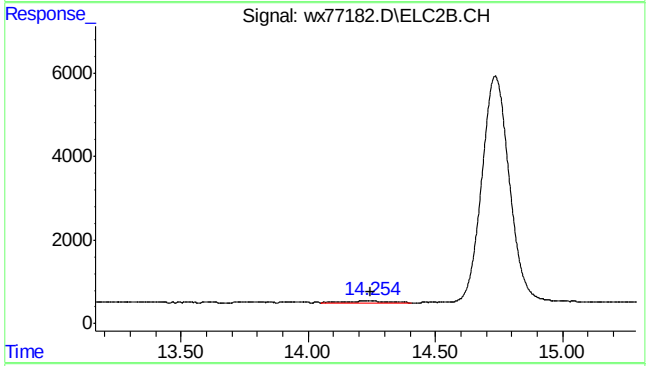
#6 2,3,4-trifluorotoluene

R.T.: 19.877 min
Delta R.T.: -0.014 min
Response: 1080411
Conc: 47.15 ppb



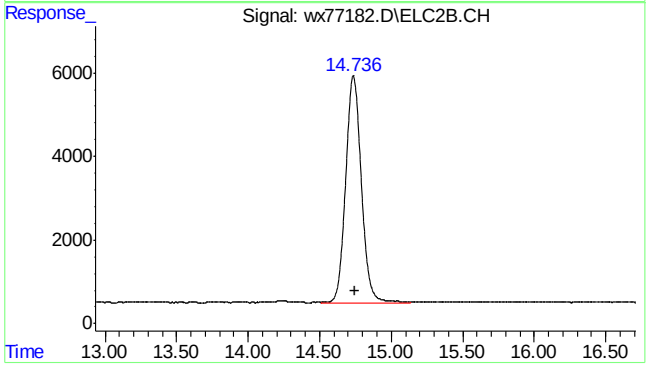
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 169623
Conc: 4.73 ppb m



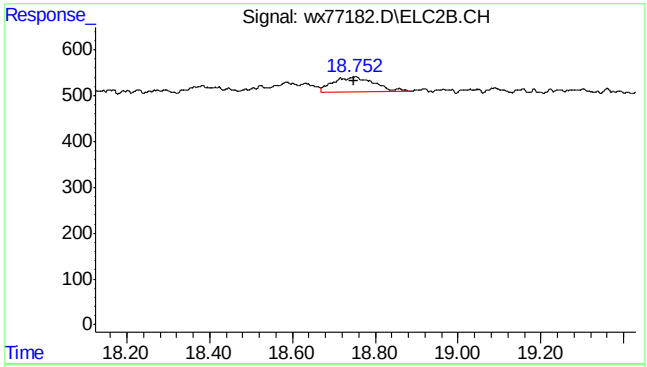
#15 benzene #2

R.T.: 14.254 min
Delta R.T.: 0.010 min
Response: 3864
Conc: 0.27 ppb m



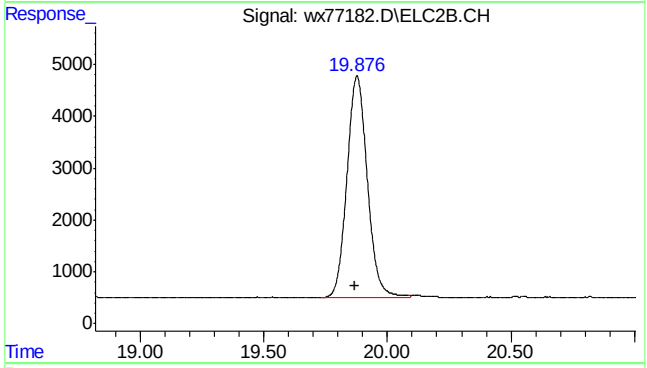
#16 fluorobenzene #2

R.T.: 14.735 min
Delta R.T.: -0.009 min
Response: 412707
Conc: 45.27 ppb



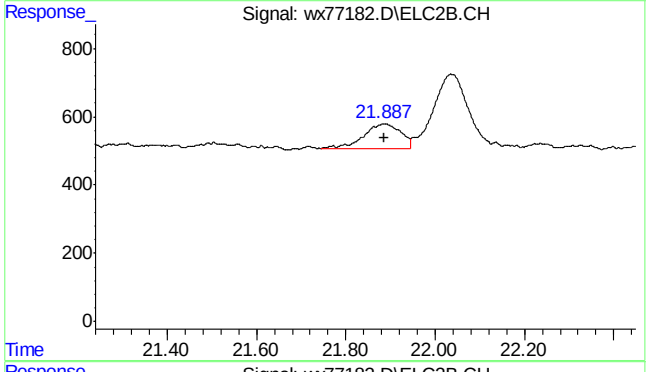
#17 toluene #2

R.T.: 18.752 min
Delta R.T.: 0.003 min
Response: 2252
Conc: 0.18 ppb



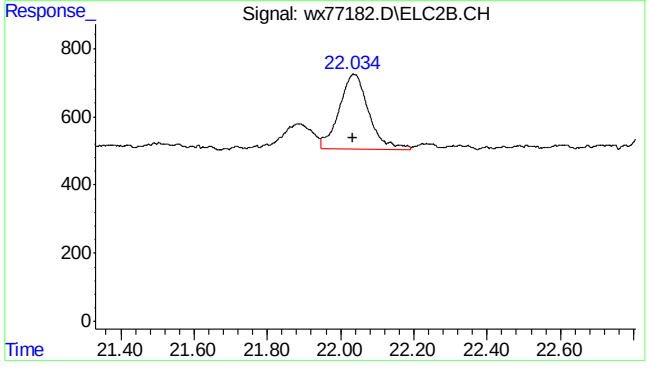
#18 2,3,4-trifluorotoluene #2

R.T.: 19.877 min
Delta R.T.: 0.008 min
Response: 245775
Conc: 45.00 ppb



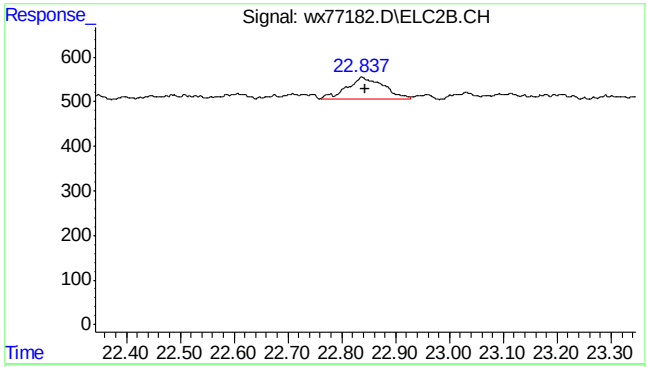
#19 ethylbenzene #2

R.T.: 21.887 min
Delta R.T.: 0.001 min
Response: 4321
Conc: 0.38 ppb



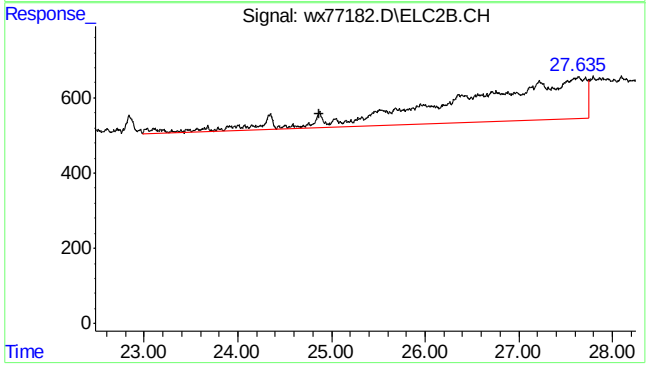
#20 m,p-xylene #2

R.T.: 22.037 min
Delta R.T.: 0.003 min
Response: 12250
Conc: 0.89 ppb



#21 o-xylene #2

R.T.: 22.839 min
Delta R.T.: -0.003 min
Response: 2438
Conc: 0.21 ppb



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 108645
Conc: 8.60 ppb m

7.1.9

7

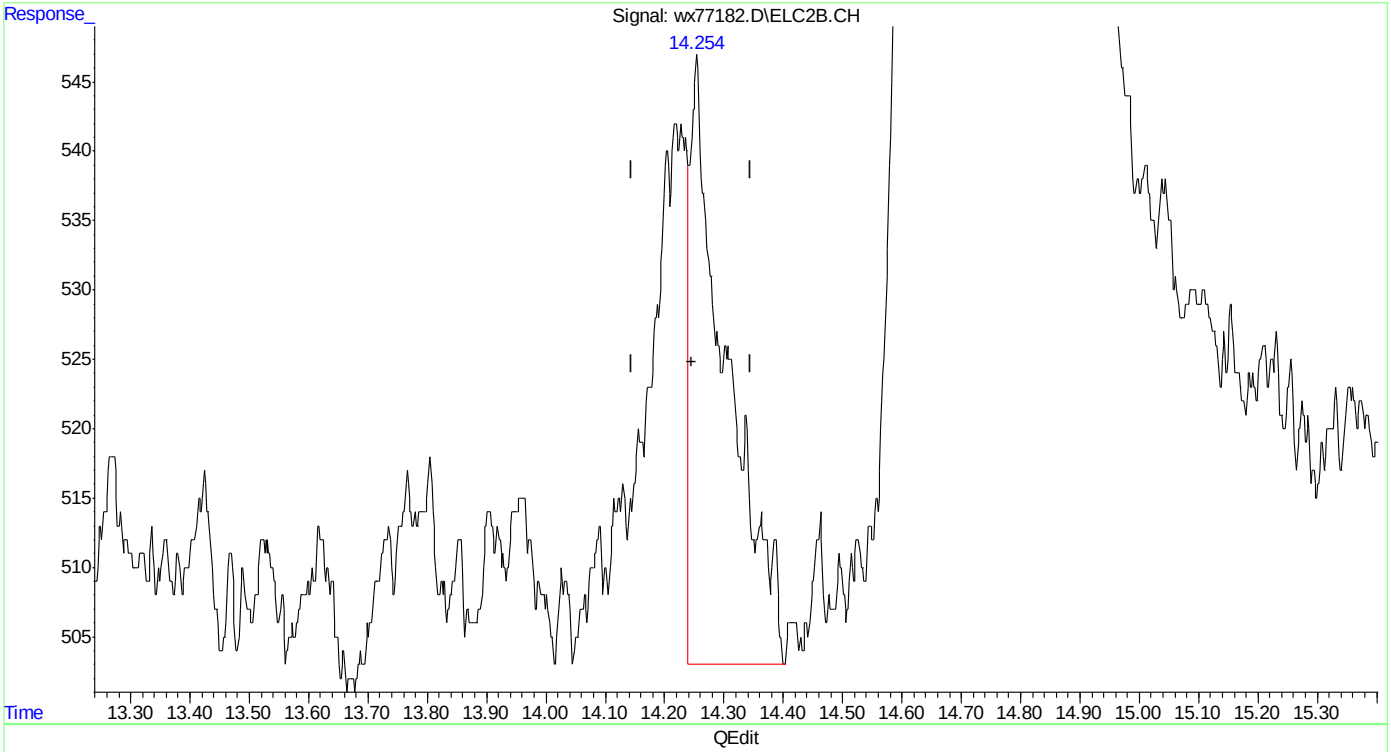
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77182.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:03 pm
Operator : tonyf
Sample : mc46423-7,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:42:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.253min 0.131 ppb
response 1864

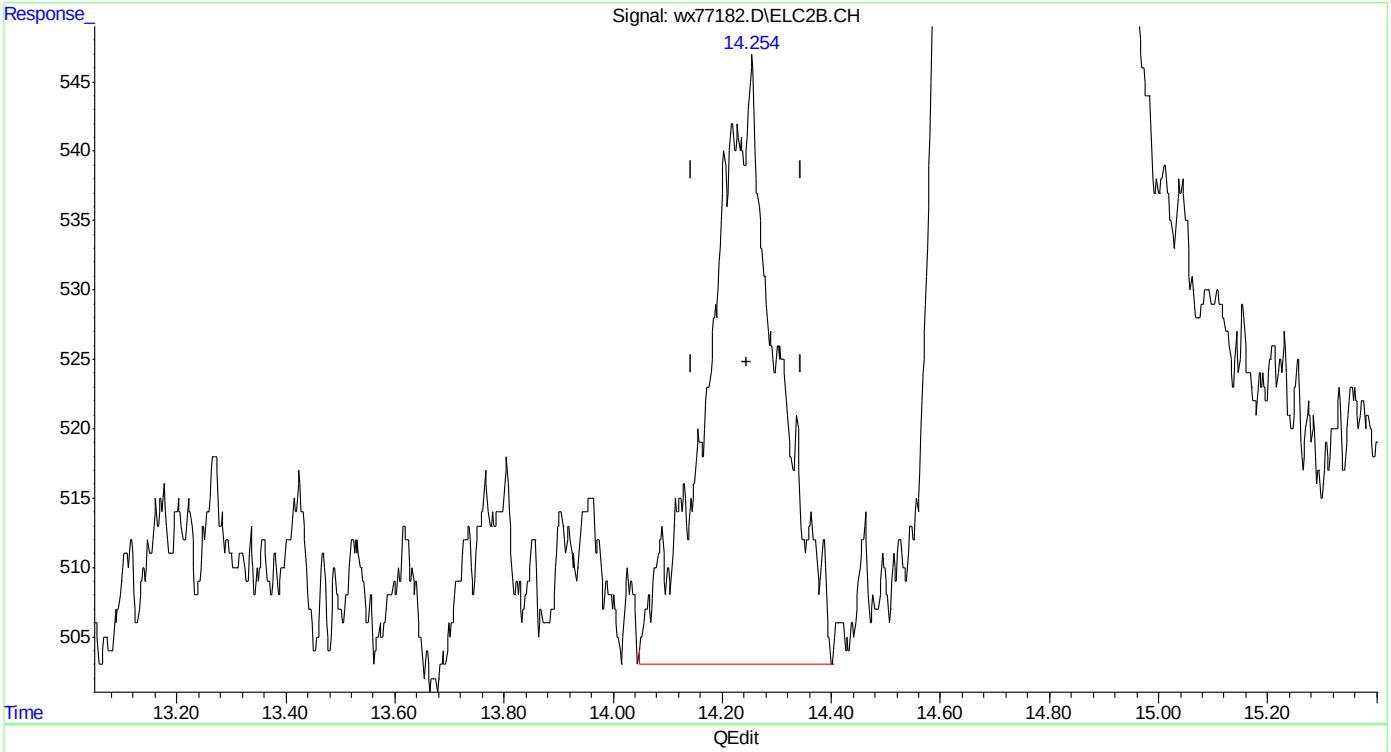
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:42:45 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77182.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:03 pm
Operator : tonyf
Sample : mc46423-7,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:42:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) benzene #2
14.254min 0.272 ppb m
response 3864

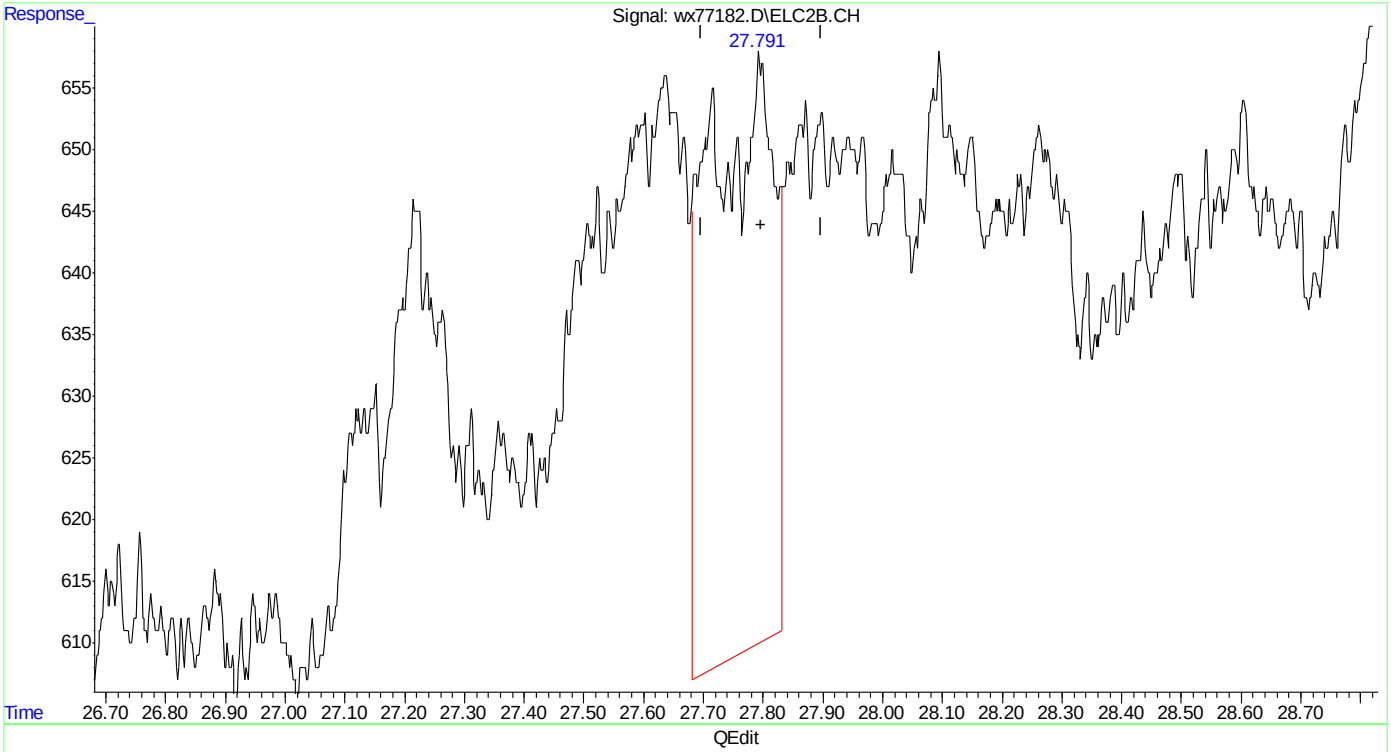
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:42:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77182.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:03 pm
Operator : tonyf
Sample : mc46423-7,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 16:42:19 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.796min 0.402 ppb
response 3583

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 16:43:14 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77169.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:56 am
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 08:48:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.746	1276580	45.174 ppb
Spiked Amount 50.000		Recovery =	90.35%
6) s 2,3,4-trifluorotoluene	19.885	1065780	46.509 ppb
Spiked Amount 50.000		Recovery =	93.02%
16) s fluorobenzene #2	14.746	410998	45.079 ppb
Spiked Amount 50.000		Recovery =	90.16%
18) s 2,3,4-trifluorotoluen...	19.884	245955	45.033 ppb
Spiked Amount 50.000		Recovery =	90.07%
Target Compounds			
1) h rt5.5-7	6.100	17476	0.739 ppb
2) h rt7/10	8.370	48488	2.049 ppb
3) h rt10/13	13.510	125985	5.324 ppb
8) h rt20/25	21.600	378204	10.552 ppb
25) h c9-c10 arom as 1,2,4-tmb	24.870	237603	18.798 ppb

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

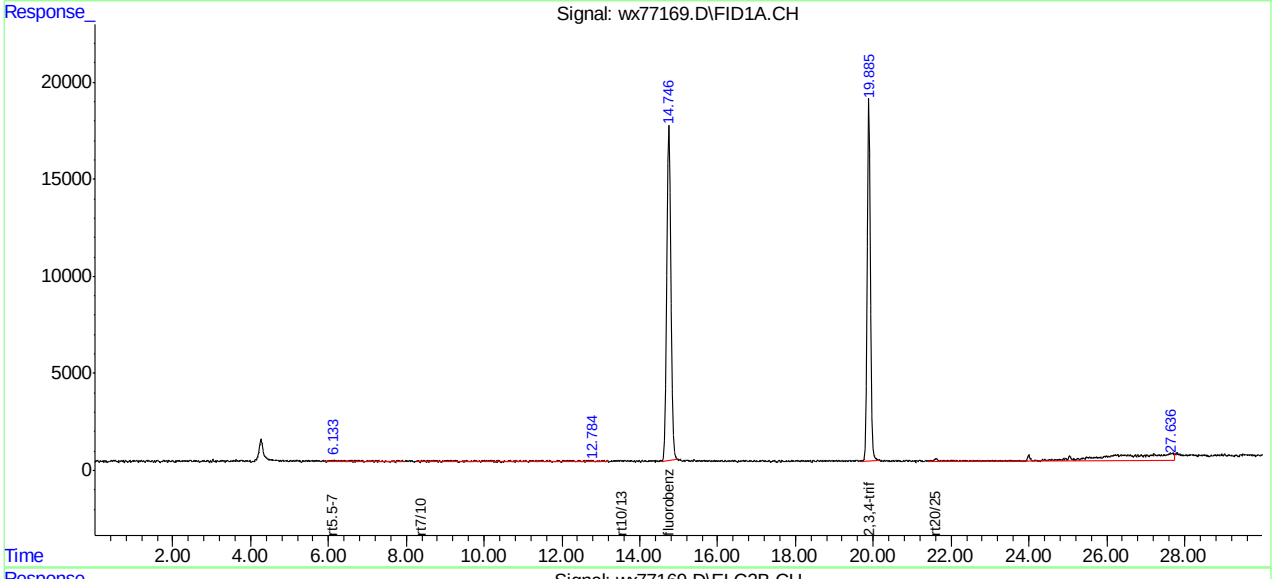
SGS ACCUTEST MC46423

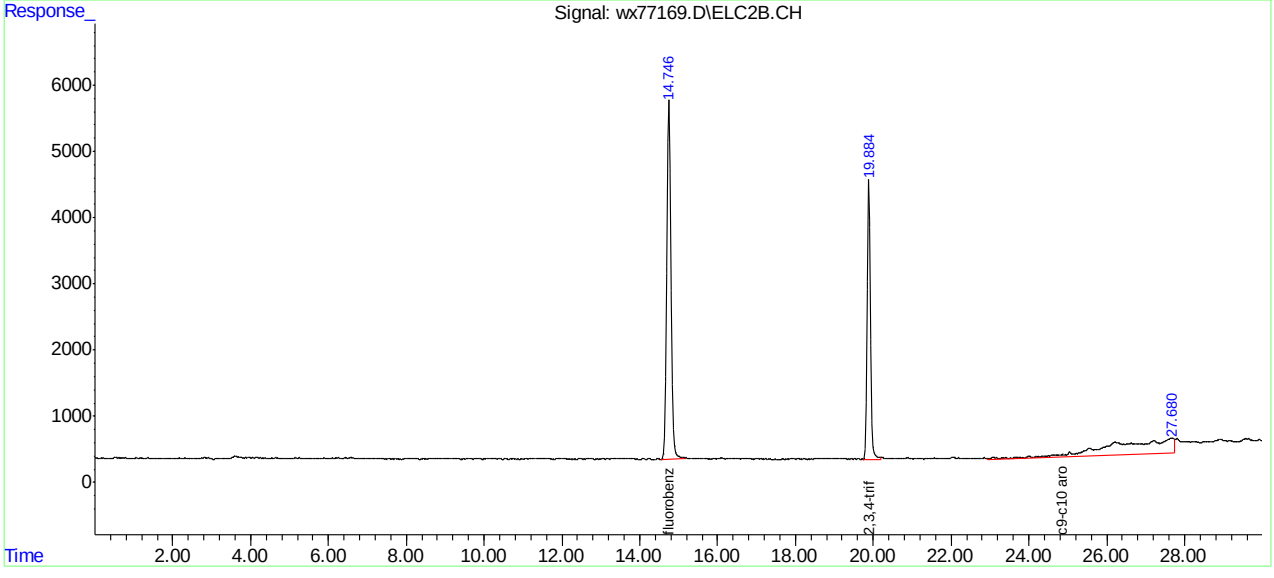
Quantitation Report (QT Reviewed)

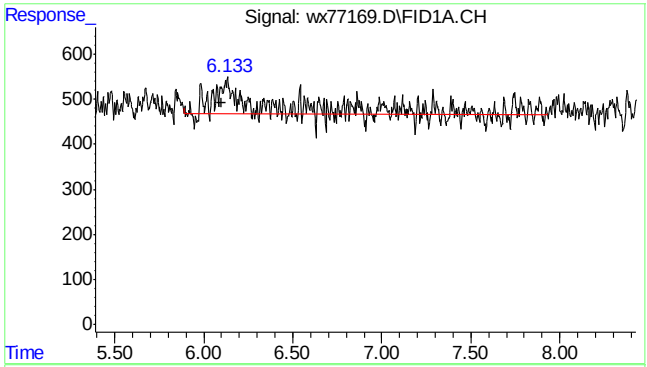
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77169.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:56 am
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 08:48:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

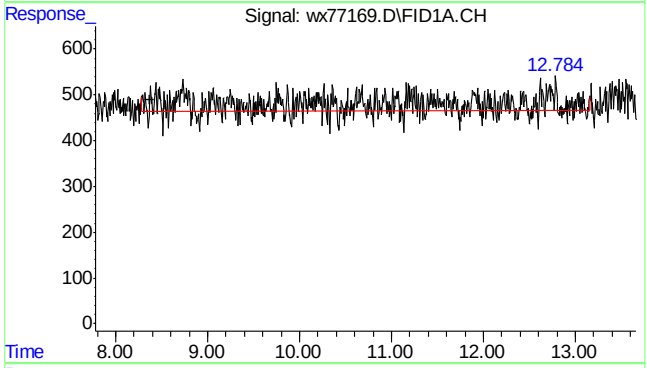






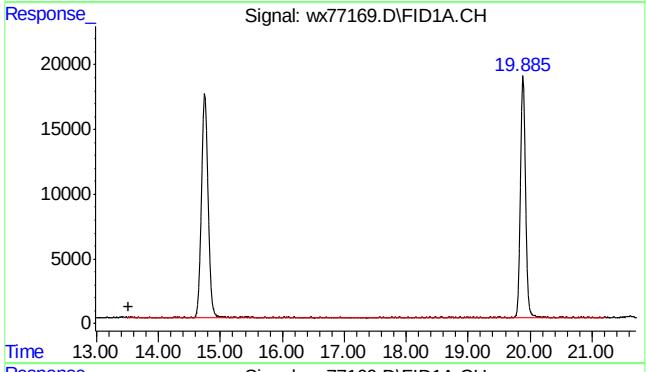
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 17476
Conc: 0.74 ppb m



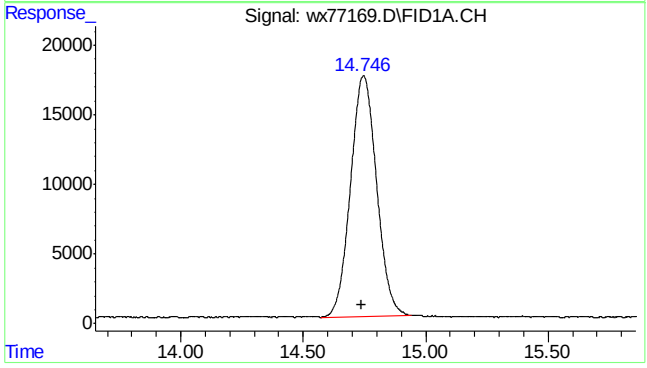
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 48488
Conc: 2.05 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 125985
Conc: 5.32 ppb m



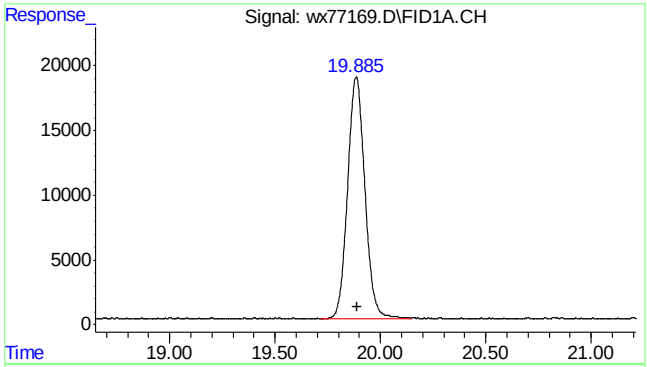
#4 fluorobenzene

R.T.: 14.746 min
Delta R.T.: 0.008 min
Response: 1276580
Conc: 45.17 ppb

7.2.1

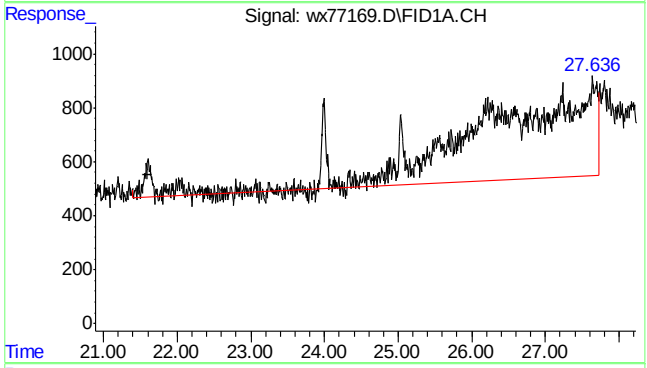
7

SGS ACCUTEST MC46423



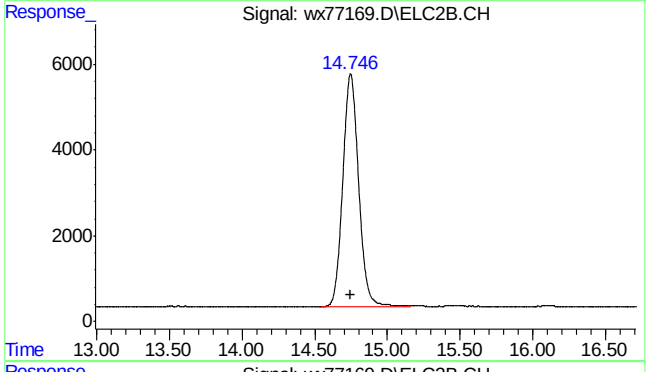
#6 2,3,4-trifluorotoluene

R.T.: 19.885 min
Delta R.T.: -0.005 min
Response: 1065780
Conc: 46.51 ppb



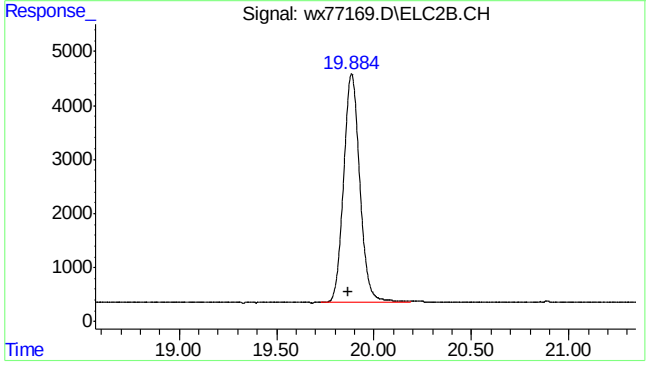
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 378204
Conc: 10.55 ppb m



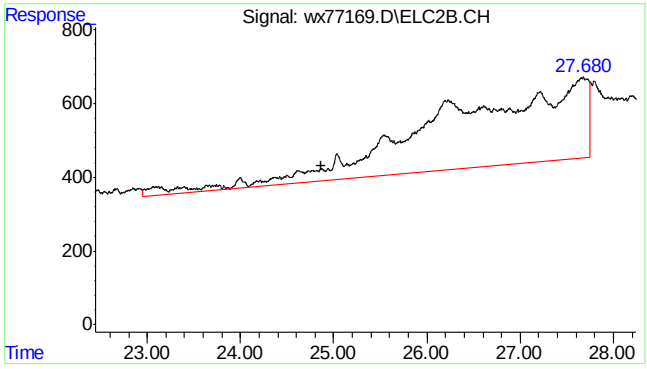
#16 fluorobenzene #2

R.T.: 14.746 min
Delta R.T.: 0.002 min
Response: 410998
Conc: 45.08 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 19.884 min
Delta R.T.: 0.015 min
Response: 245955
Conc: 45.03 ppb



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 237603
Conc: 18.80 ppb m

7.2.1

7

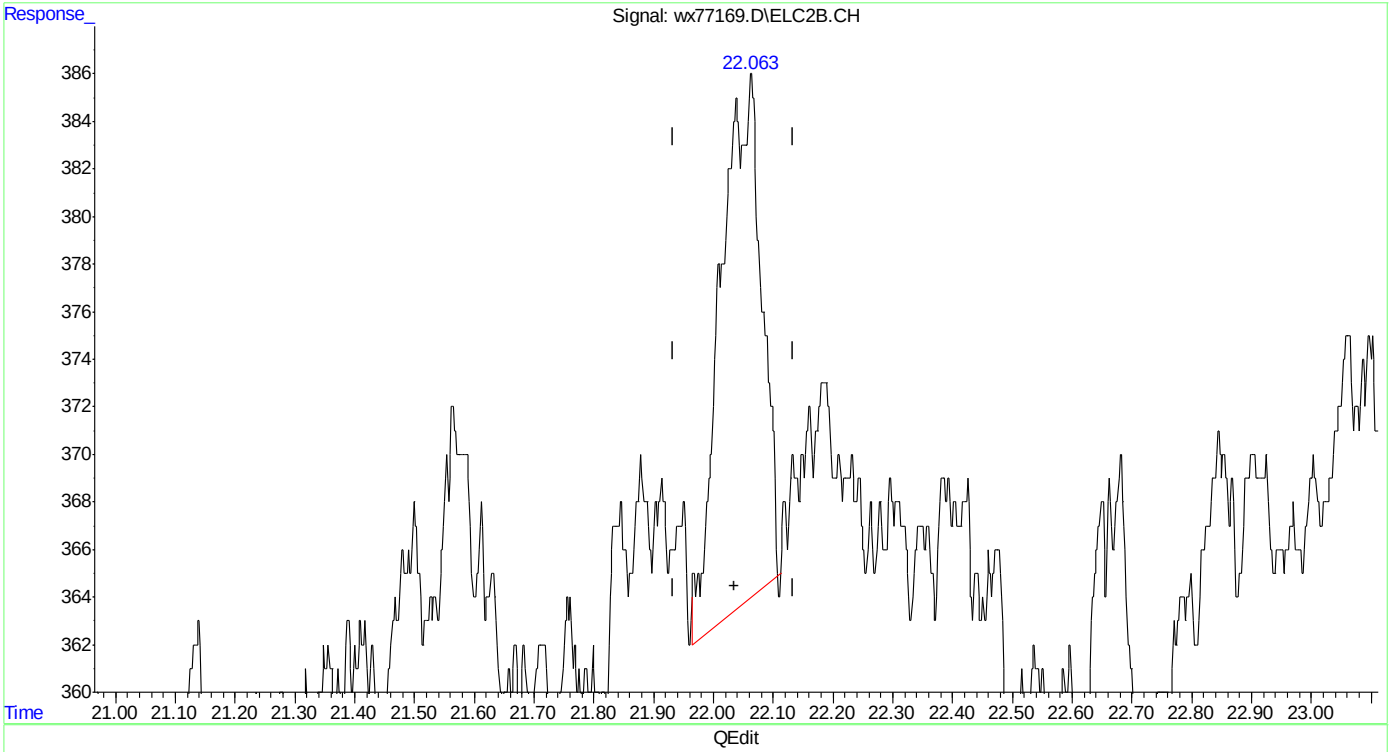
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77169.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:56 am
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 08:47:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) m,p-xylene #2
22.063min 0.074 ppb
response 1025

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 08:47:46 2016

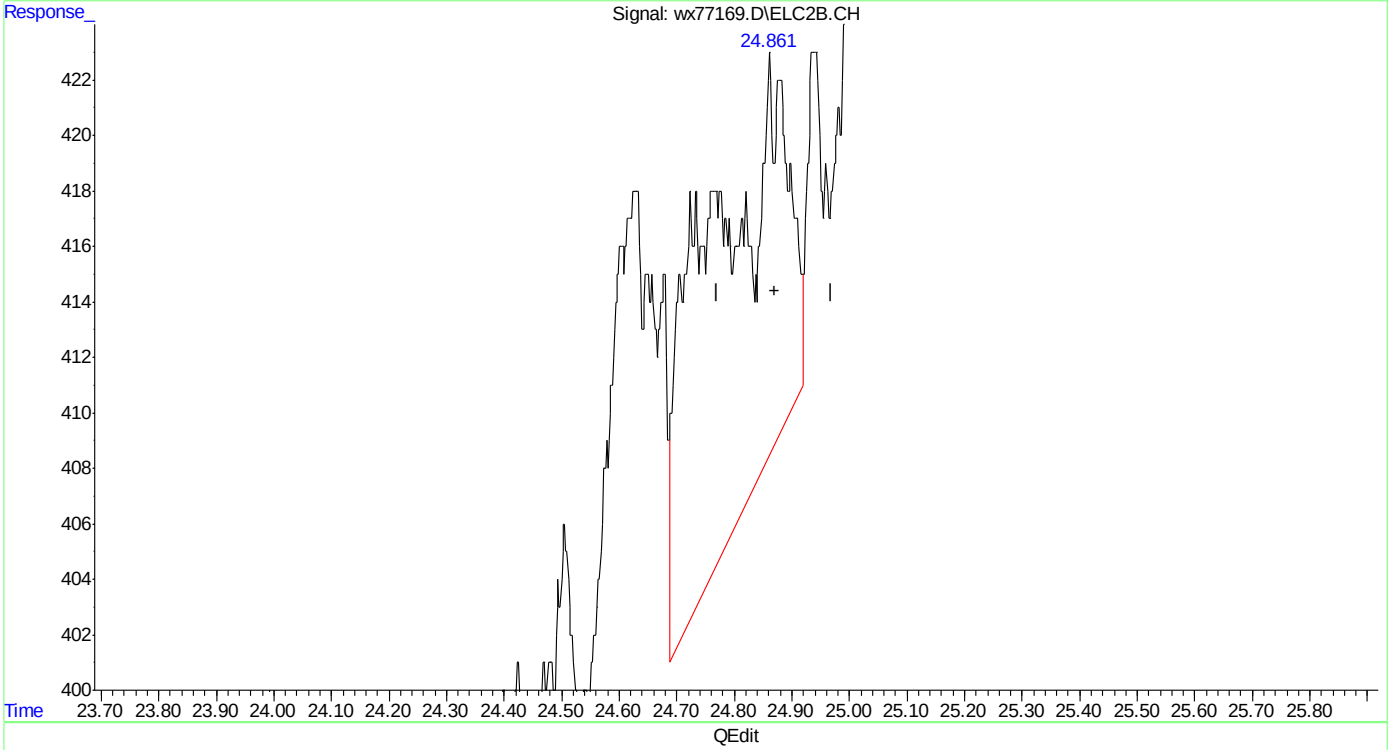
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77169.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:56 am
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 08:47:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) 1,2,4-trimethylbenzene #2
24.873min 0.116 ppb
response 1465

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 08:47:53 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77170.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 8:33 am
Operator : tonyf
Sample : bsp,w,vmavph,00 (Sig #1); bsd,w,vmavph,00 (Sig #2)
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:11:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.747	1269865	44.936 ppb
Spiked Amount 50.000		Recovery =	89.87%
6) s 2,3,4-trifluorotoluene	19.884	1055225	46.048 ppb
Spiked Amount 50.000		Recovery =	92.10%
16) s fluorobenzene #2	14.747	405721	44.500 ppb
Spiked Amount 50.000		Recovery =	89.00%
18) s 2,3,4-trifluorotoluen...	19.883	245581	44.964 ppb
Spiked Amount 50.000		Recovery =	89.93%
Target Compounds			
1) h rt5.5-7	6.100	1062217	44.890 ppb
2) h rt7/10	8.370	1301632	55.007 ppb
3) h rt10/13	13.510	1070296	45.231 ppb
8) h rt20/25	21.600	1294242	36.110 ppb
10) h Decane	23.990	1208996	33.731 ppb
11) h Butylcyclohexane	25.040	1370397	38.235 ppb
14) mtbe #2	9.145	206050	47.228 ppb
15) benzene #2	14.240	650288	45.777 ppb
17) toluene #2	18.748	602811	46.857 ppb
19) ethylbenzene #2	21.889	527128	46.050 ppb
20) m,p-xylene #2	22.037	1288630	93.261 ppb
21) o-xylene #2	22.844	546323	47.038 ppb
22) t 1,3,5-trimethylbenzen...	24.342	759028	44.531 ppb
23) 1,2,4-trimethylbenzen...	24.871	579019	45.790 ppb
24) naphthalene #2	27.798	503495	56.524 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	579066	45.812 ppb

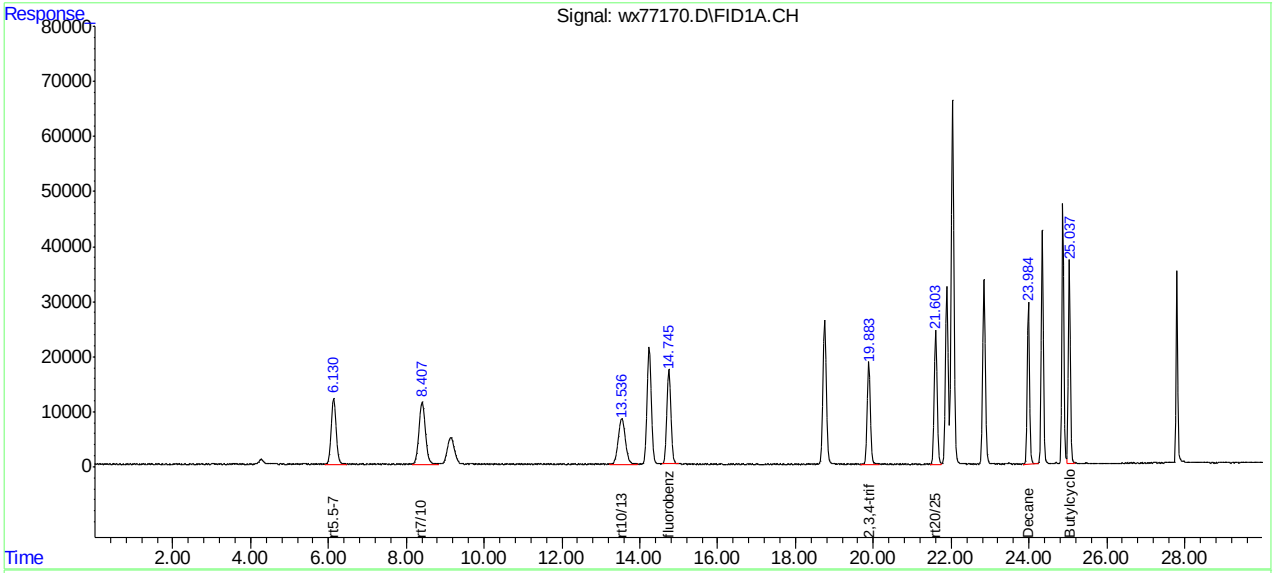
(f)=RT Delta > 1/2 Window (m)=manual int.

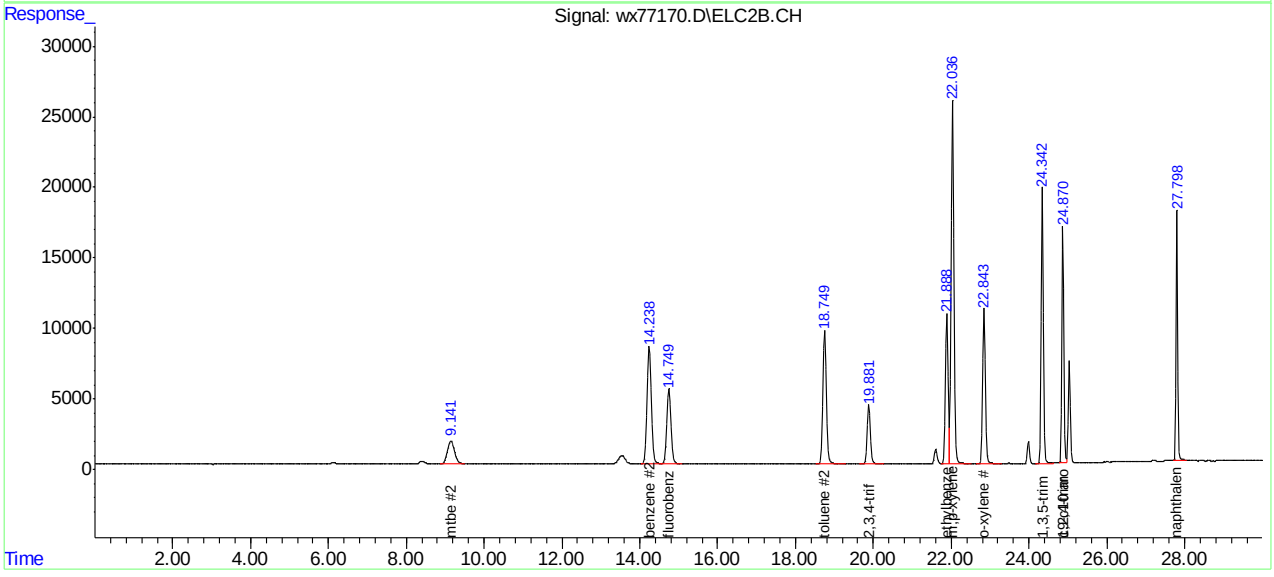
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77170.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 8:33 am
Operator : tonyf
Sample : bsp,w,vmavph,00 (Sig #1); bsd,w,vmavph,00 (Sig #2)
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

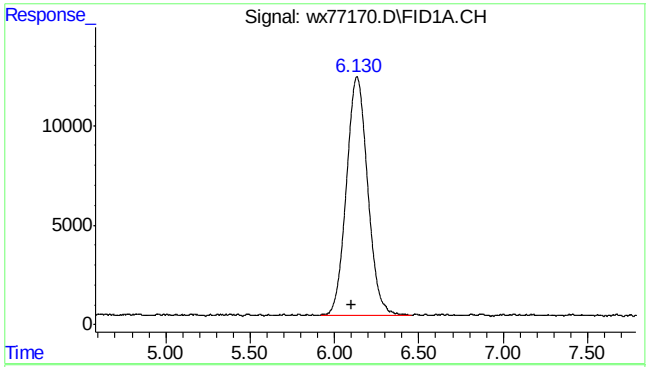
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:11:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



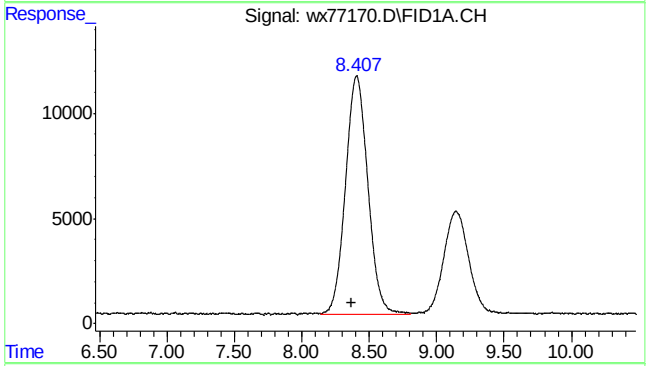


SGS ACCUTEST MC46423



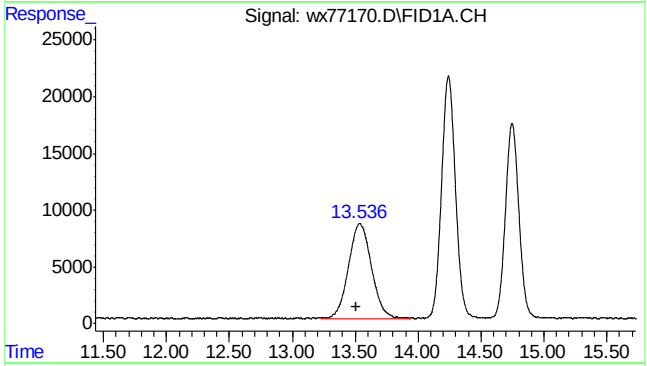
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1062217
Conc: 44.89 ppb m



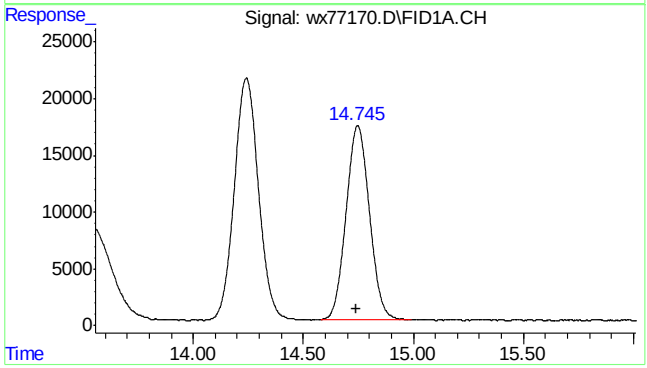
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1301632
Conc: 55.01 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1070296
Conc: 45.23 ppb m



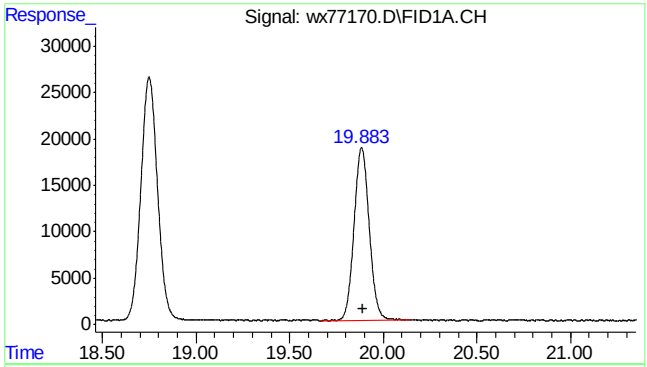
#4 fluorobenzene

R.T.: 14.747 min
Delta R.T.: 0.008 min
Response: 1269865
Conc: 44.94 ppb

7.3.1

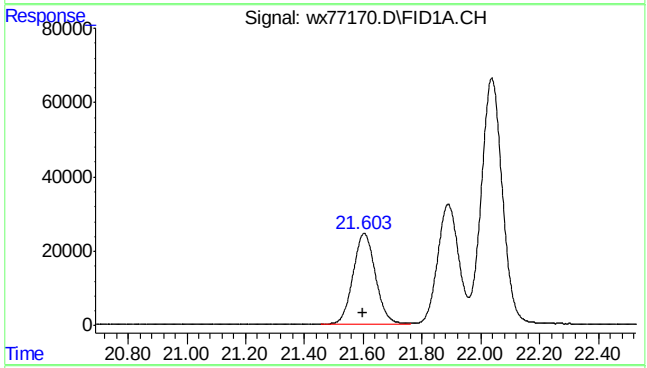
7

SGS ACCUTEST MC46423



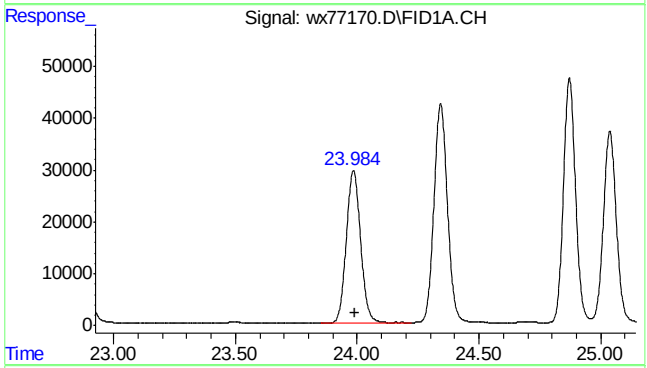
#6 2,3,4-trifluorotoluene

R.T.: 19.884 min
Delta R.T.: -0.006 min
Response: 1055225
Conc: 46.05 ppb



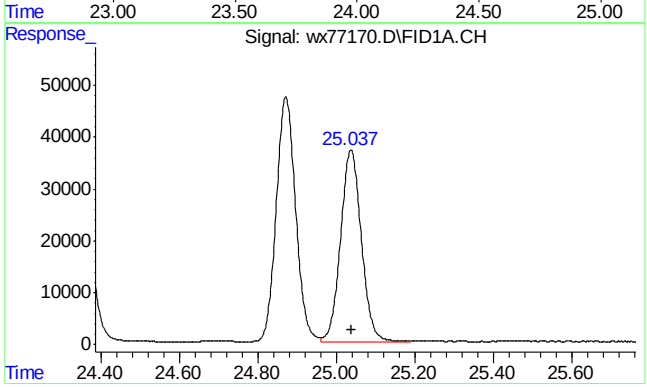
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1294242
Conc: 36.11 ppb m



#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1208996
Conc: 33.73 ppb m



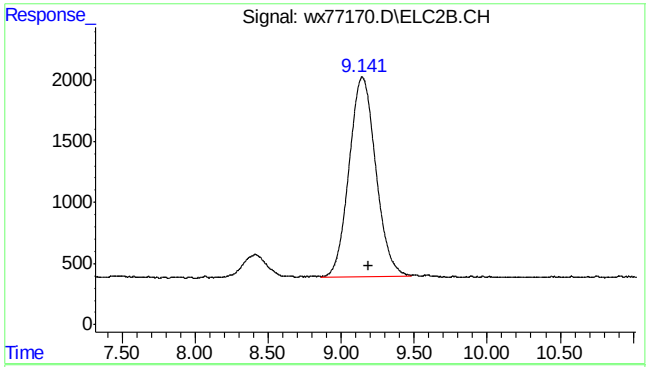
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1370397
Conc: 38.23 ppb m

7.3.1

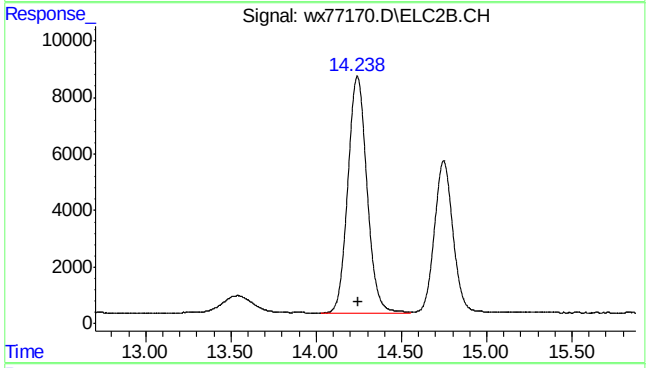
7

SGS ACCUTEST MC46423



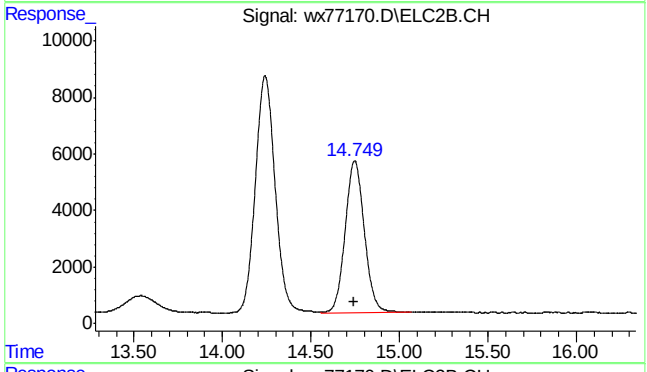
#14 mtbe #2

R.T.: 9.145 min
Delta R.T.: -0.047 min
Response: 206050
Conc: 47.23 ppb



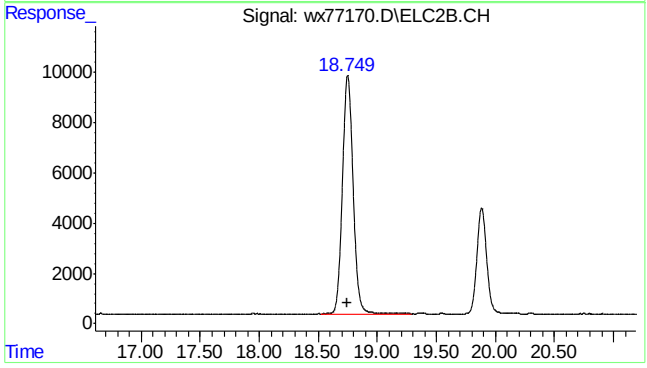
#15 benzene #2

R.T.: 14.240 min
Delta R.T.: -0.005 min
Response: 650288
Conc: 45.78 ppb



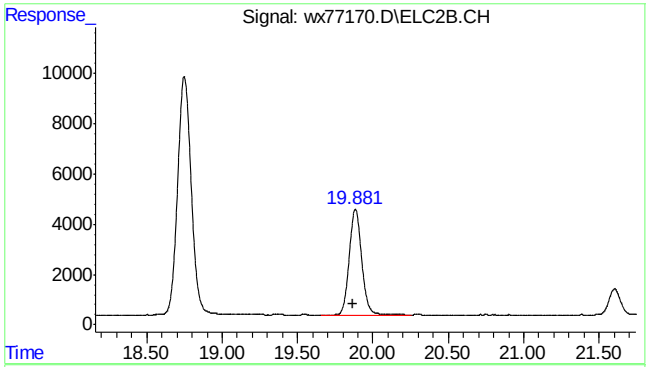
#16 fluorobenzene #2

R.T.: 14.747 min
Delta R.T.: 0.003 min
Response: 405721
Conc: 44.50 ppb



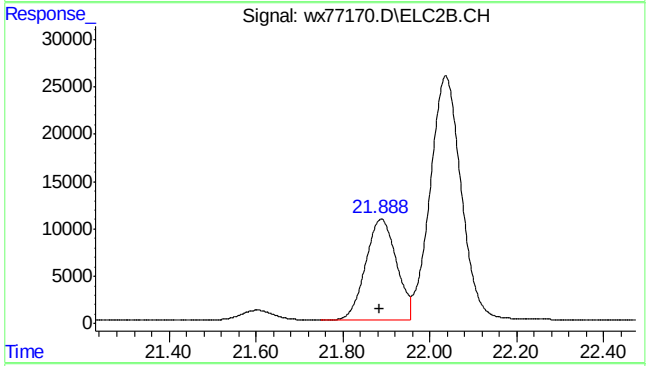
#17 toluene #2

R.T.: 18.748 min
Delta R.T.: -0.001 min
Response: 602811
Conc: 46.86 ppb



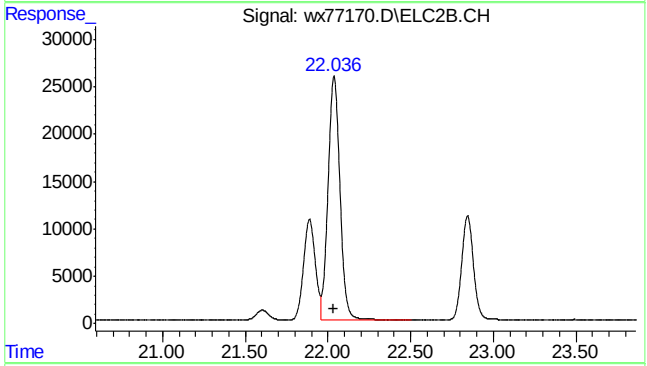
#18 2,3,4-trifluorotoluene #2

R.T.: 19.883 min
Delta R.T.: 0.014 min
Response: 245581
Conc: 44.96 ppb



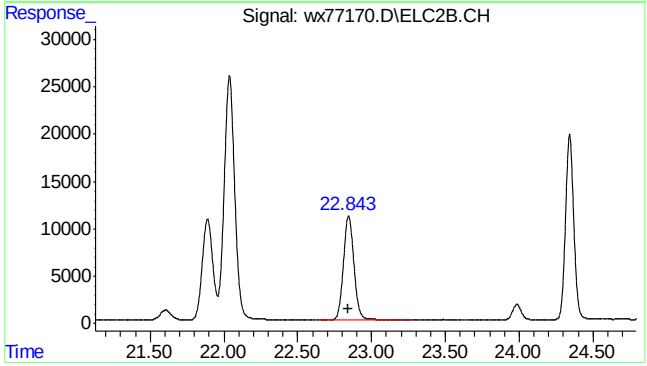
#19 ethylbenzene #2

R.T.: 21.889 min
Delta R.T.: 0.003 min
Response: 527128
Conc: 46.05 ppb



#20 m,p-xylene #2

R.T.: 22.037 min
Delta R.T.: 0.003 min
Response: 1288630
Conc: 93.26 ppb



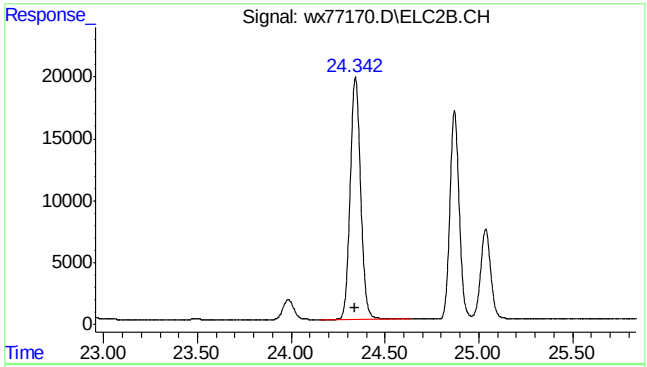
#21 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.002 min
Response: 546323
Conc: 47.04 ppb

7.3.1

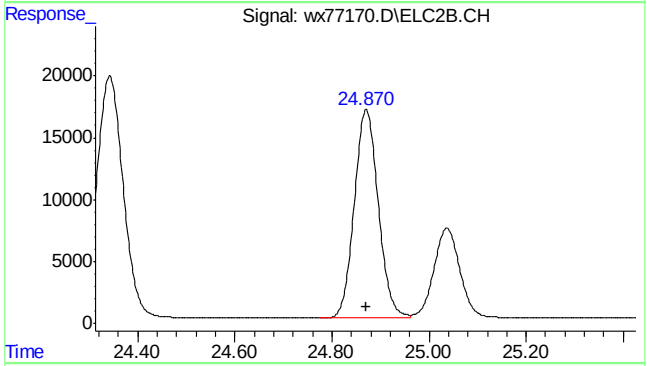
7

SGS ACCUTEST MC46423



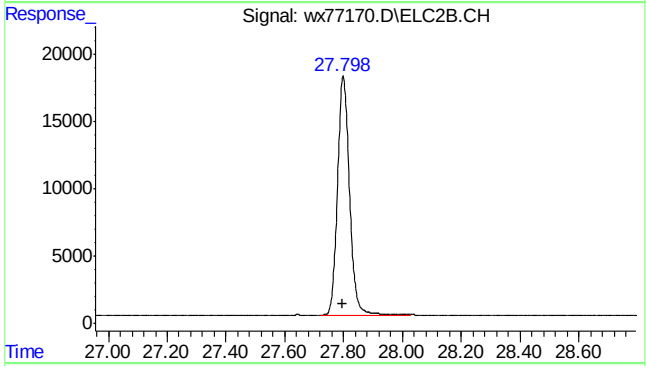
#22 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.001 min
Response: 759028
Conc: 44.53 ppb



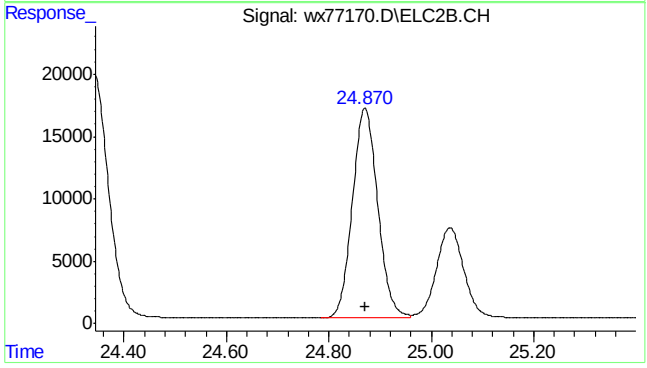
#23 1,2,4-trimethylbenzene #2

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 579019
Conc: 45.79 ppb



#24 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.001 min
Response: 503495
Conc: 56.52 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 579066
Conc: 45.81 ppb m

7.3.1

7

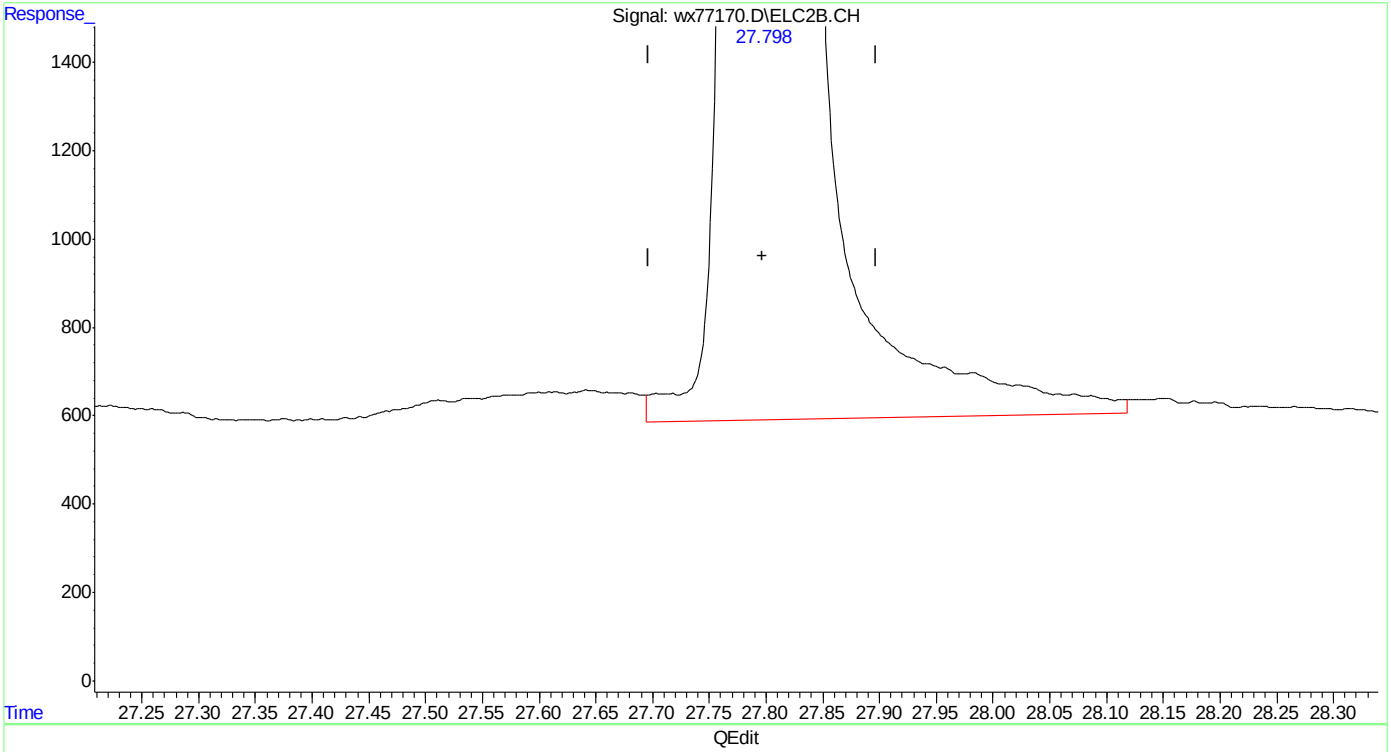
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77170.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 20 Jun 2016   8:33 am
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:10:51 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.799min 57.951 ppb

response 516208

(+) = Expected Retention Time

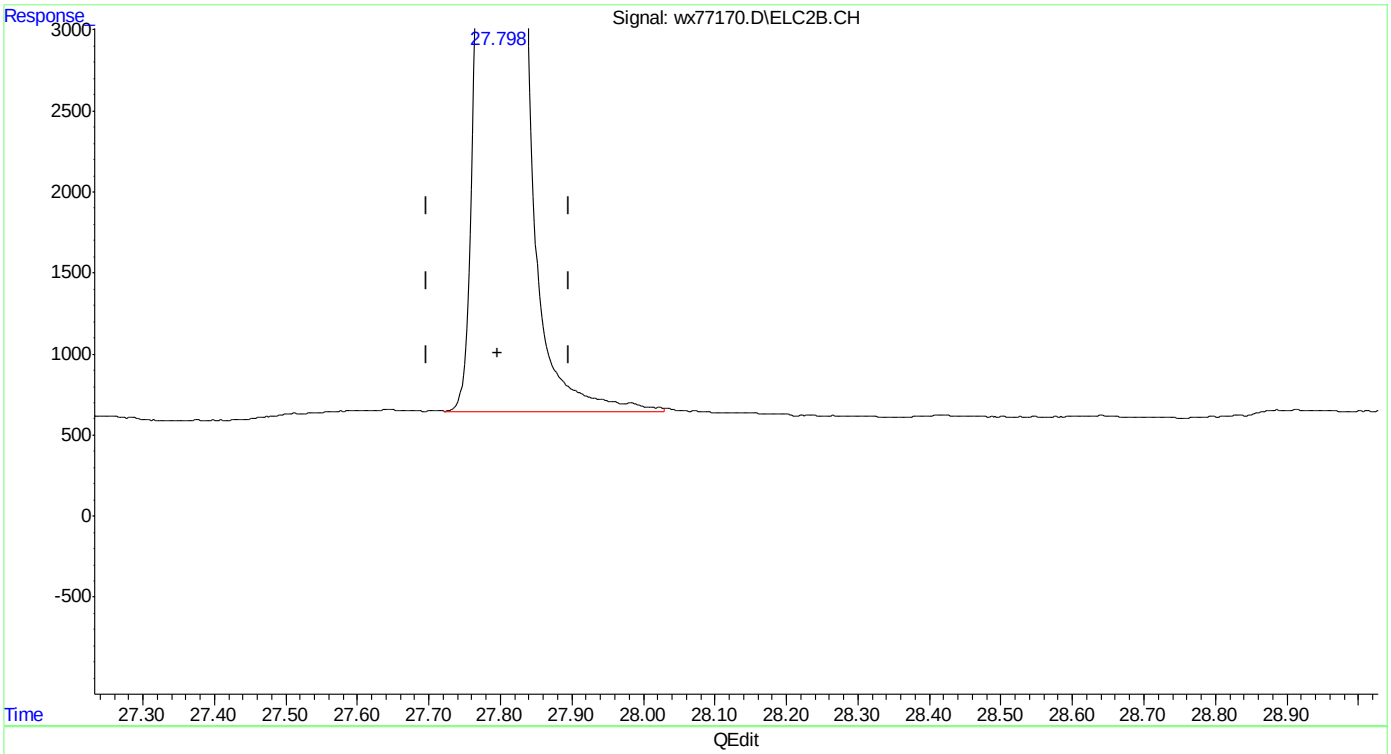
wx160620vph.M Mon Jun 20 09:11:48 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77170.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 20 Jun 2016   8:33 am
Operator  : tonyf
Sample    : bsp,w,vmavph,00 (Sig #1); bsd,w,vmavph,00 (Sig #2)
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:11:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.798min 56.524 ppb m

response 503495

(+) = Expected Retention Time

wx160620vph.M Mon Jun 20 14:03:14 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:46:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.658f	1348551	47.720 ppb
Spiked Amount 50.000		Recovery =	95.44%
6) s 2,3,4-trifluorotoluene	19.849	1093772	47.731 ppb
Spiked Amount 50.000		Recovery =	95.46%
16) s fluorobenzene #2	14.655f	424844	46.597 ppb
Spiked Amount 50.000		Recovery =	93.19%
18) s 2,3,4-trifluorotoluen...	19.848	249962	45.766 ppb
Spiked Amount 50.000		Recovery =	91.53%
Target Compounds			
1) h rt5.5-7	6.100	1041721	44.024 ppb
2) h rt7/10	8.370	1334077	56.379 ppb
3) h rt10/13	13.510	1064550	44.988 ppb
8) h rt20/25	21.600	1331212	37.141 ppb
10) h Decane	23.990	1280801	35.735 ppb
11) h Butylcyclohexane	25.040	1427037	39.815 ppb
14) mtbe #2	9.002f	209324	47.978 ppb m
15) benzene #2	14.146f	662795	46.657 ppb
17) toluene #2	18.700	602397	46.825 ppb
19) ethylbenzene #2	21.866	530850	46.376 ppb
20) m,p-xylene #2	22.016	1297765	93.922 ppb
21) o-xylene #2	22.827	549281	47.293 ppb
22) t 1,3,5-trimethylbenzen...	24.333	772461	45.319 ppb
23) 1,2,4-trimethylbenzen...	24.863	592538	46.859 ppb
24) naphthalene #2	27.796	516908	58.029 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	592507	46.875 ppb

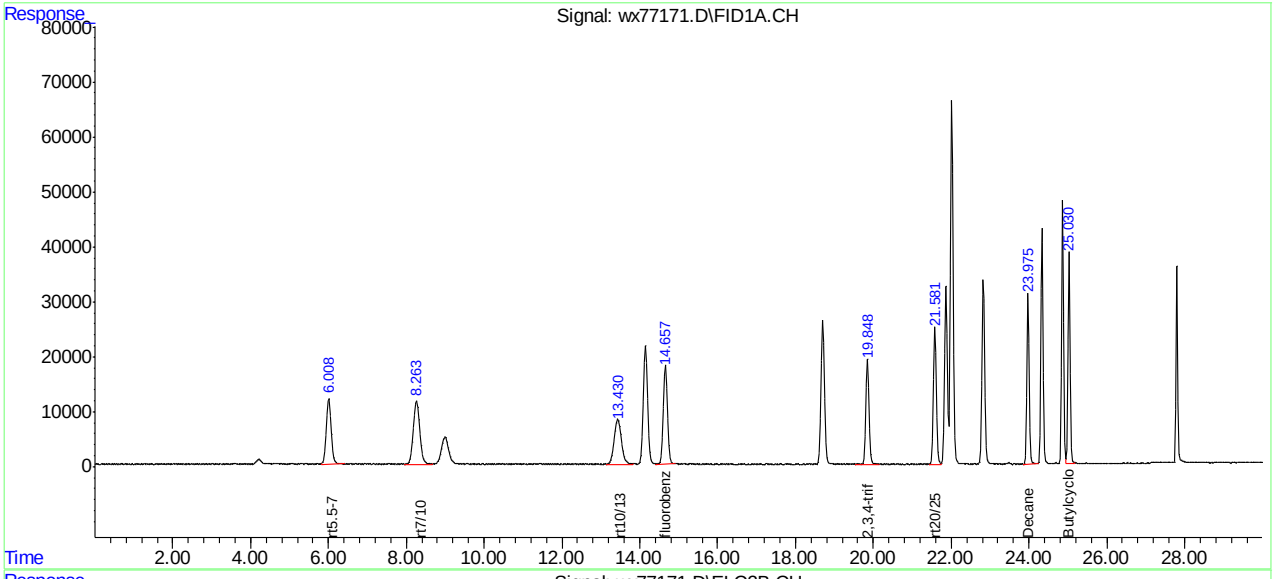
(f)=RT Delta > 1/2 Window (m)=manual int.

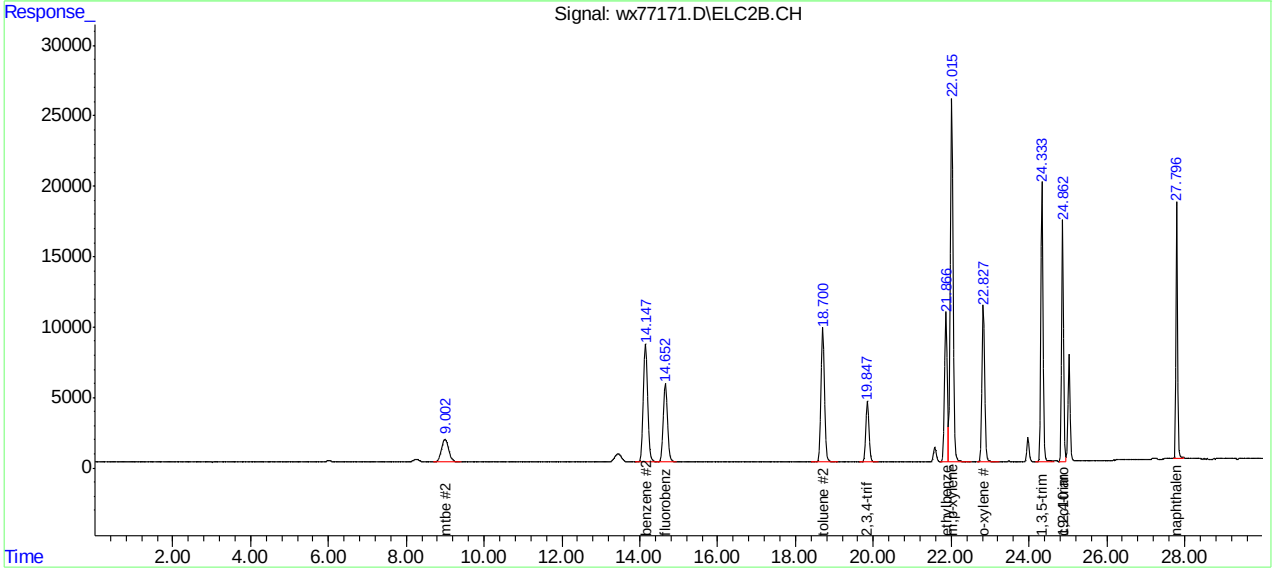
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:46:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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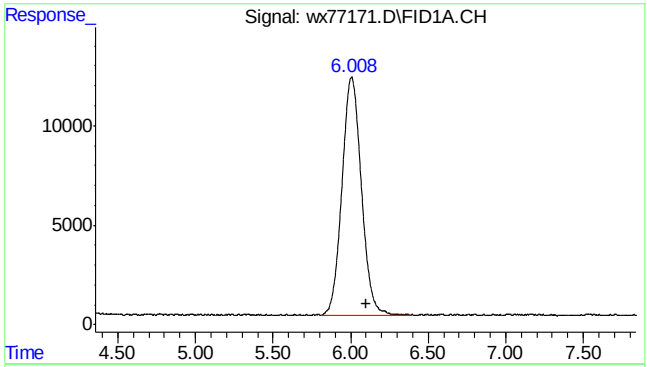
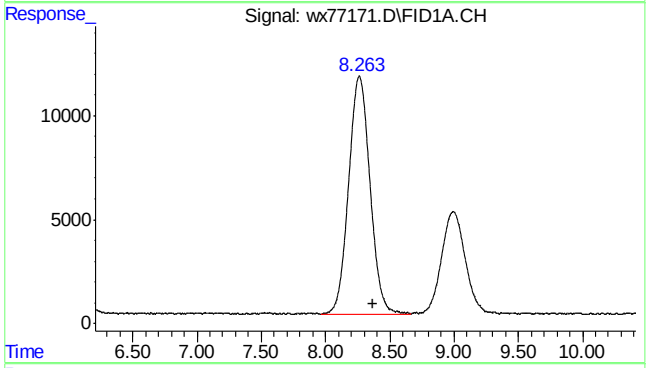


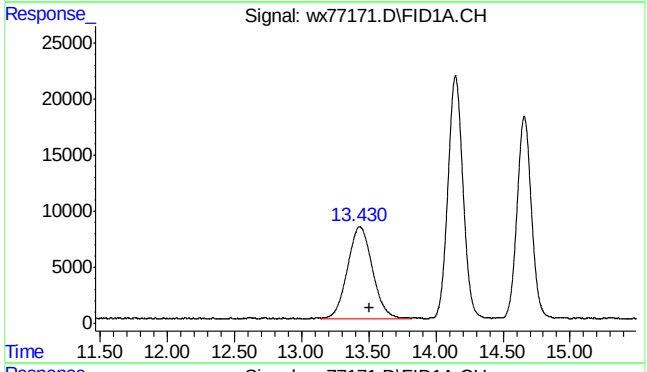
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1041721
Conc: 44.02 ppb m



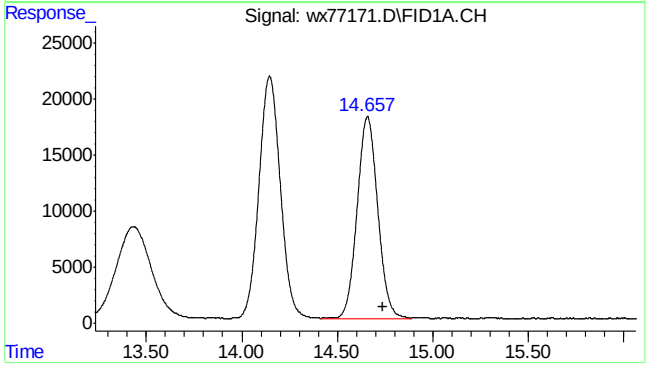
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1334077
Conc: 56.38 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1064550
Conc: 44.99 ppb m



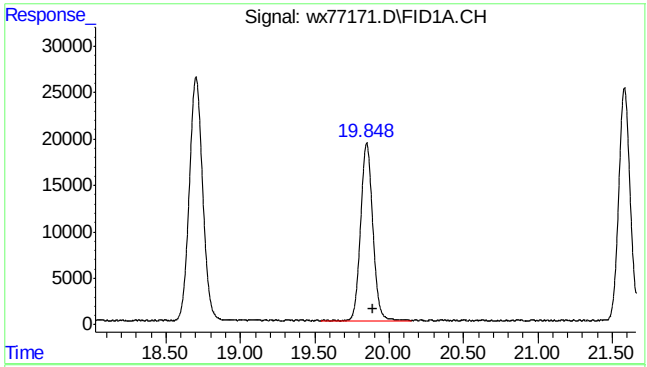
#4 fluorobenzene

R.T.: 14.658 min
Delta R.T.: -0.081 min
Response: 1348551
Conc: 47.72 ppb

7.3.2

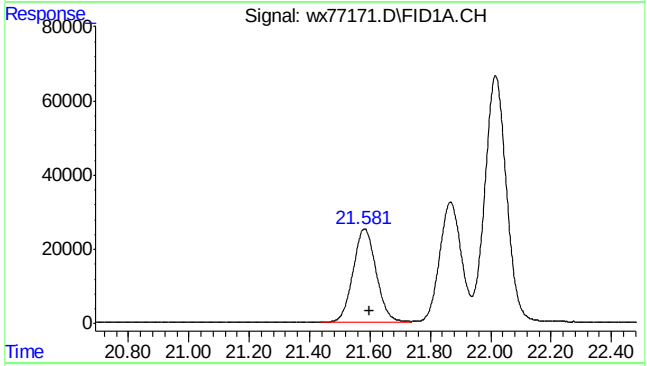
7

SGS ACCUTEST MC46423



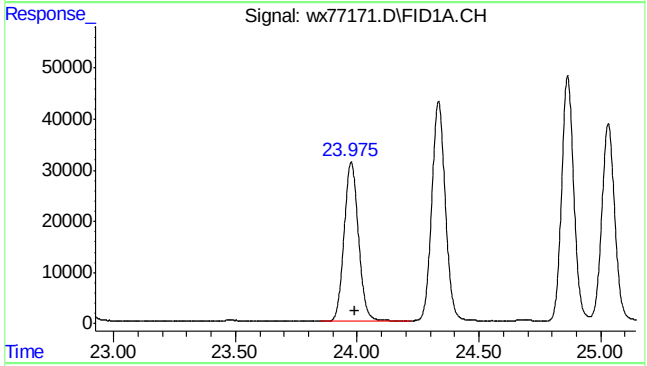
#6 2,3,4-trifluorotoluene

R.T.: 19.849 min
Delta R.T.: -0.041 min
Response: 1093772
Conc: 47.73 ppb



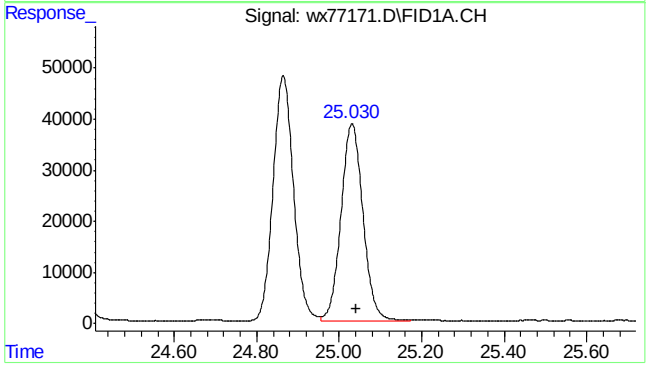
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1331212
Conc: 37.14 ppb m



#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1280801
Conc: 35.73 ppb m



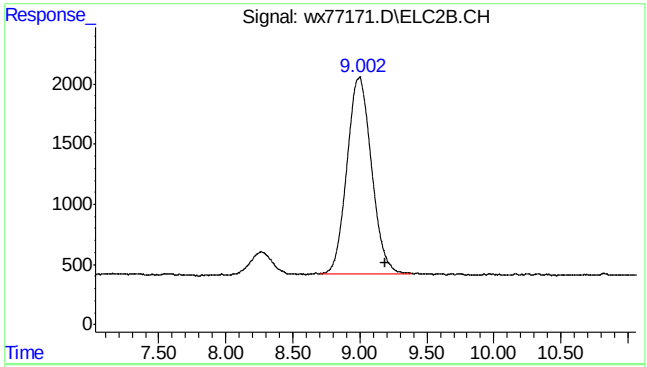
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1427037
Conc: 39.81 ppb m

7.3.2

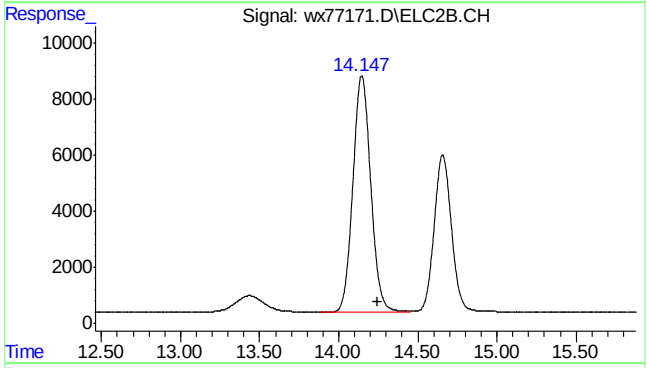
7

SGS ACCUTEST MC46423



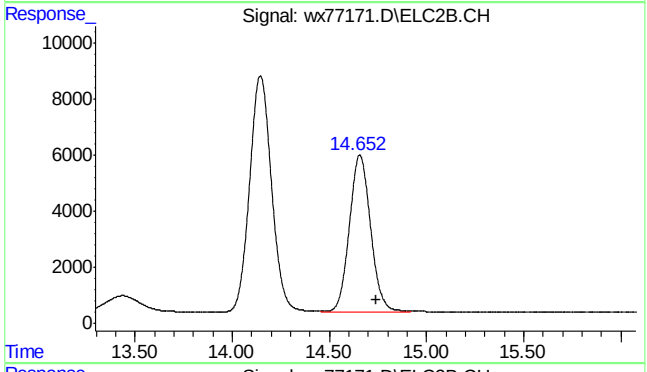
#14 mtbe #2

R.T.: 9.002 min
Delta R.T.: -0.189 min
Response: 209324
Conc: 47.98 ppb m



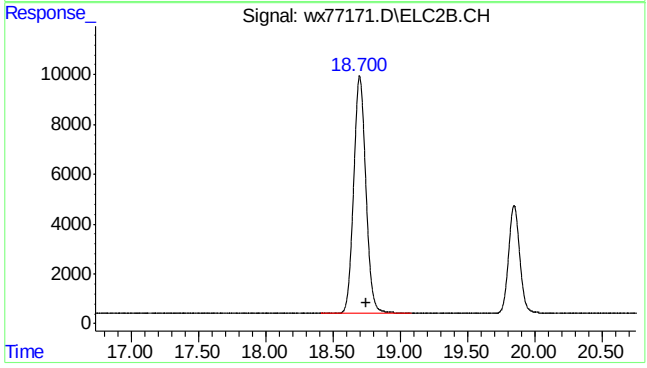
#15 benzene #2

R.T.: 14.146 min
Delta R.T.: -0.099 min
Response: 662795
Conc: 46.66 ppb



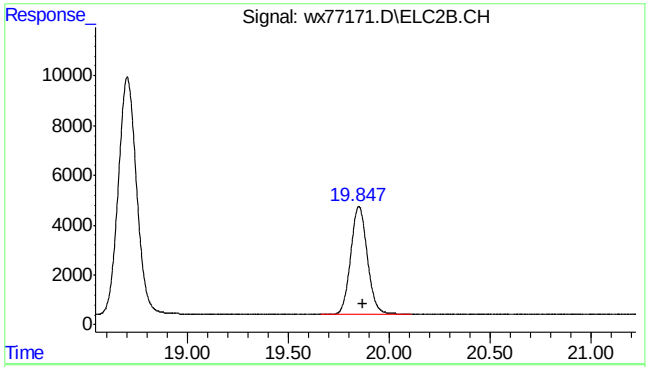
#16 fluorobenzene #2

R.T.: 14.655 min
Delta R.T.: -0.089 min
Response: 424844
Conc: 46.60 ppb



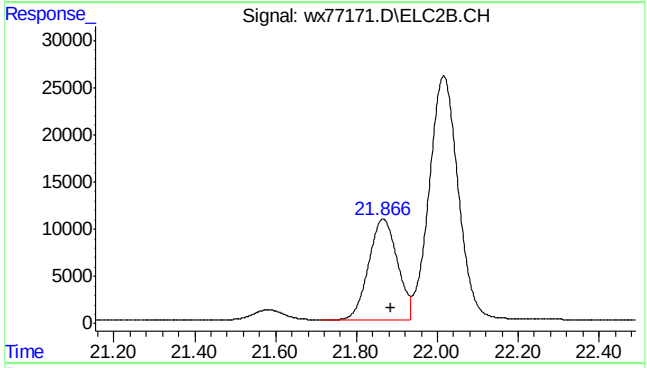
#17 toluene #2

R.T.: 18.700 min
Delta R.T.: -0.049 min
Response: 602397
Conc: 46.83 ppb



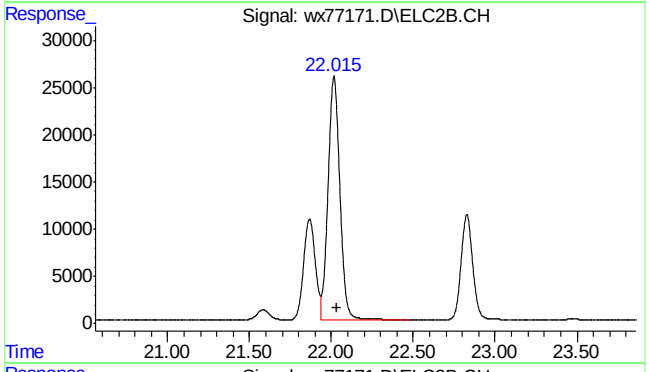
#18 2,3,4-trifluorotoluene #2

R.T.: 19.848 min
Delta R.T.: -0.021 min
Response: 249962
Conc: 45.77 ppb



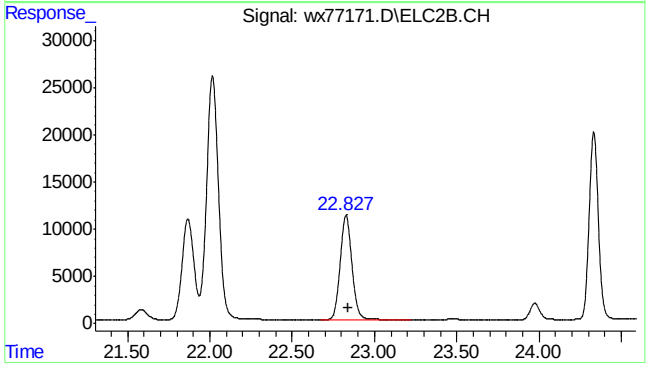
#19 ethylbenzene #2

R.T.: 21.866 min
Delta R.T.: -0.020 min
Response: 530850
Conc: 46.38 ppb



#20 m,p-xylene #2

R.T.: 22.016 min
Delta R.T.: -0.018 min
Response: 1297765
Conc: 93.92 ppb



#21 o-xylene #2

R.T.: 22.827 min
Delta R.T.: -0.015 min
Response: 549281
Conc: 47.29 ppb

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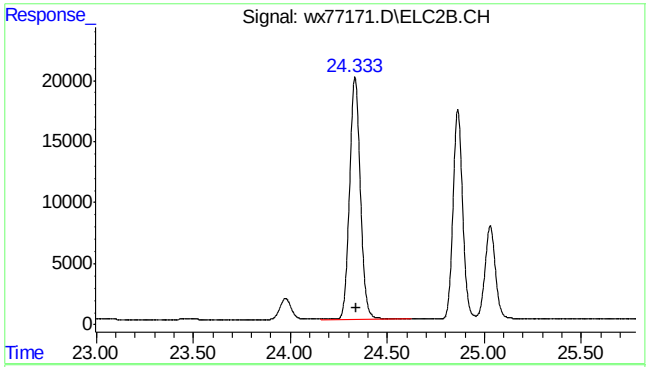
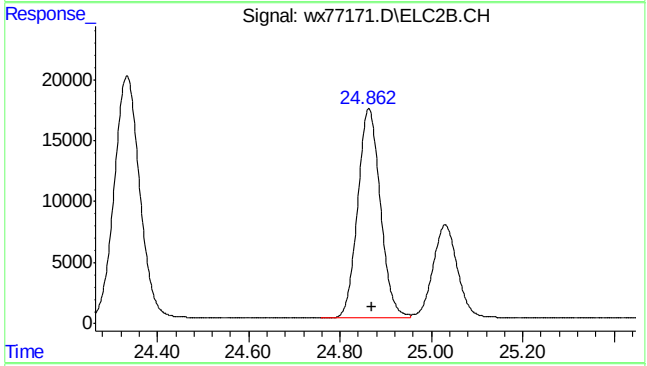


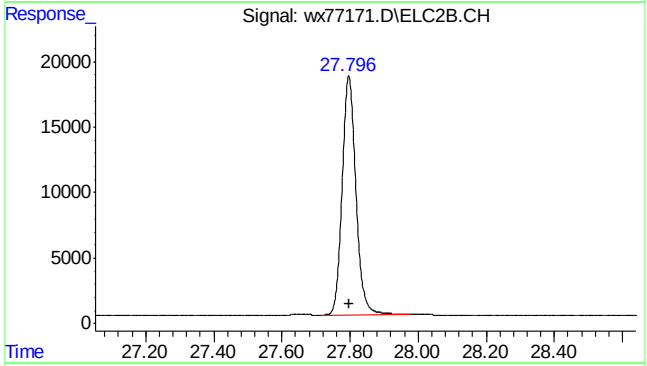
#22 1,3,5-trimethylbenzene #2

R.T.: 24.333 min
Delta R.T.: -0.007 min
Response: 772461
Conc: 45.32 ppb



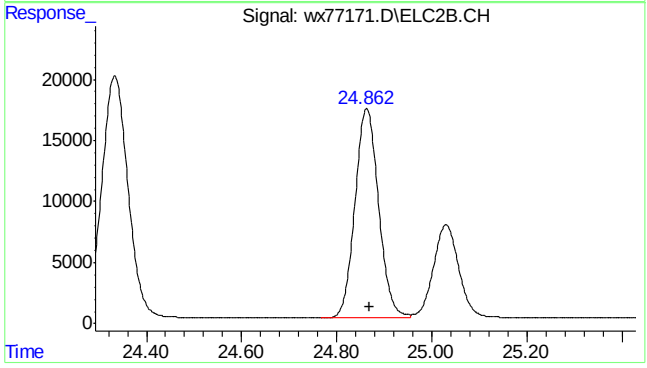
#23 1,2,4-trimethylbenzene #2

R.T.: 24.863 min
Delta R.T.: -0.007 min
Response: 592538
Conc: 46.86 ppb



#24 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 516908
Conc: 58.03 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 592507
Conc: 46.88 ppb m

7.3.2

7

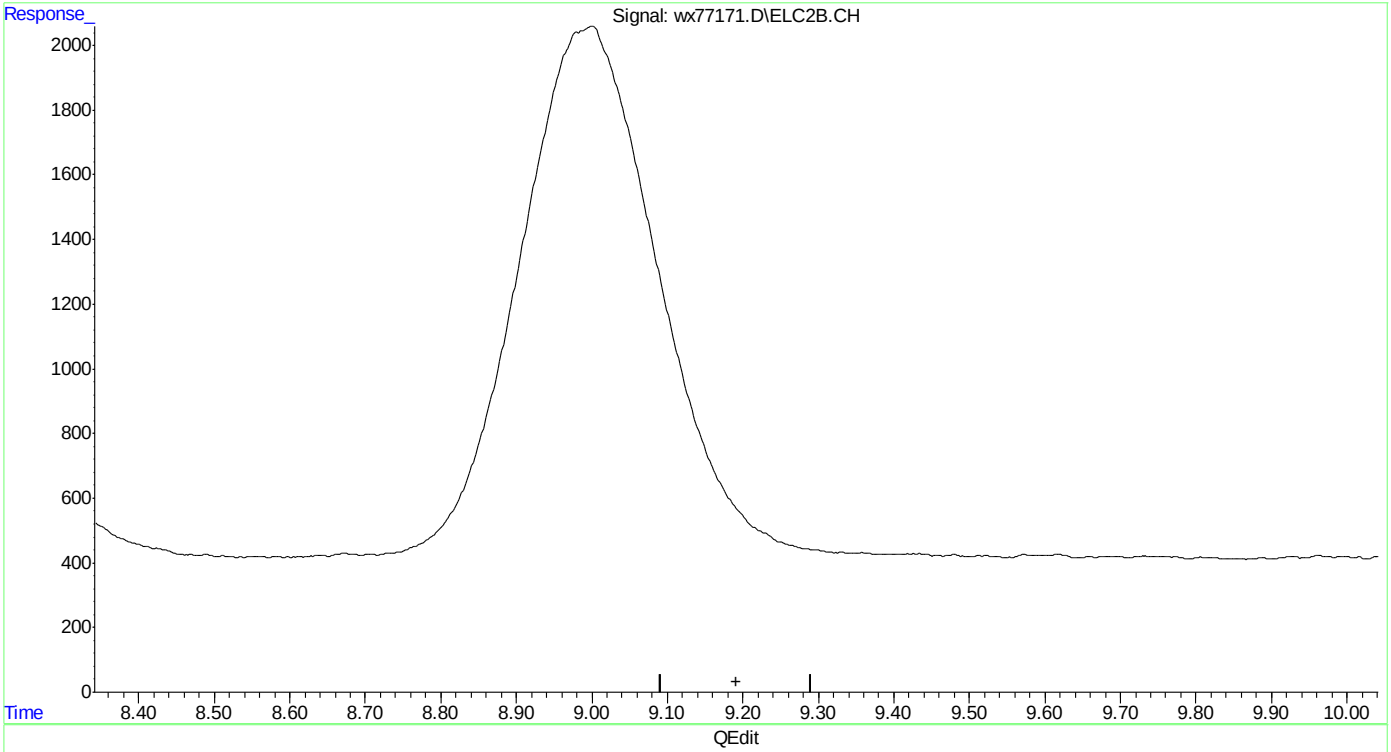
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:44:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.191min 0.000 ppb
response 0

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 09:45:46 2016

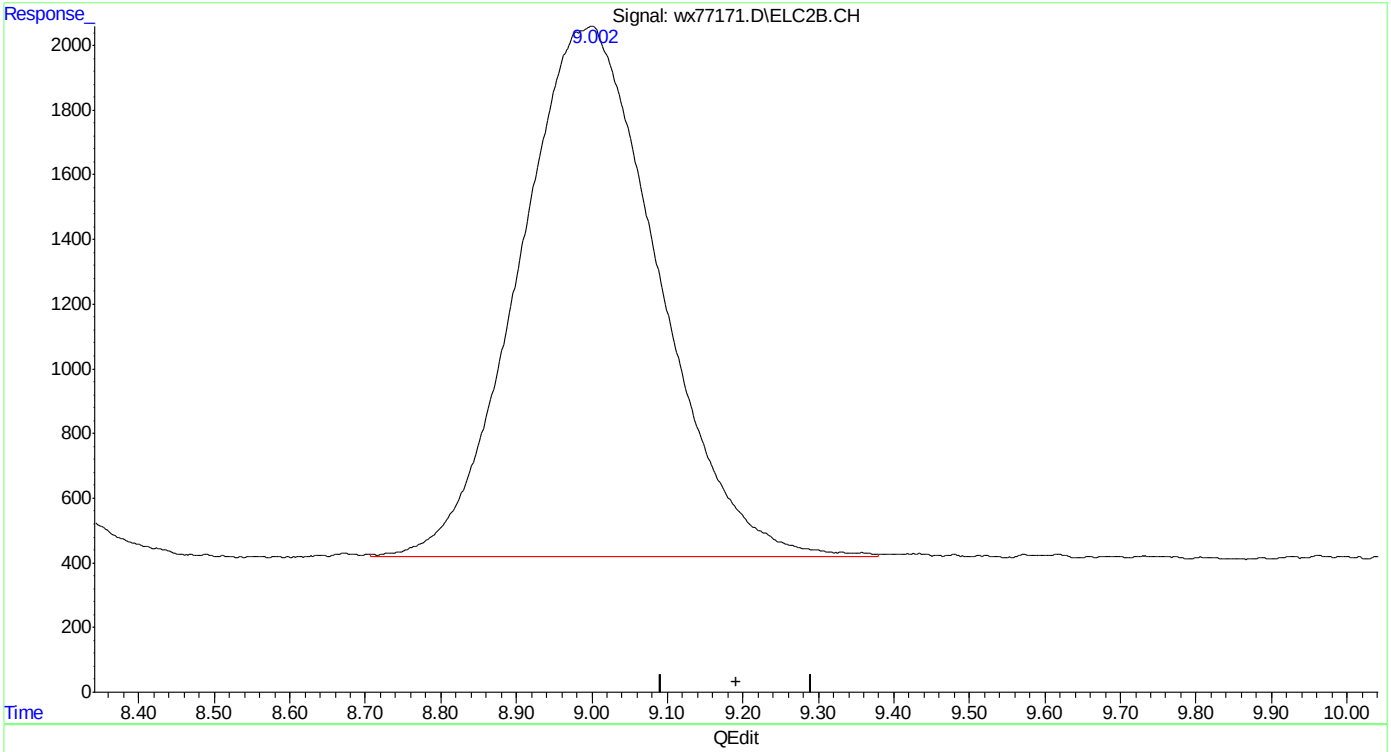
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:44:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.002min 47.978 ppb m
response 209324

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 09:45:52 2016

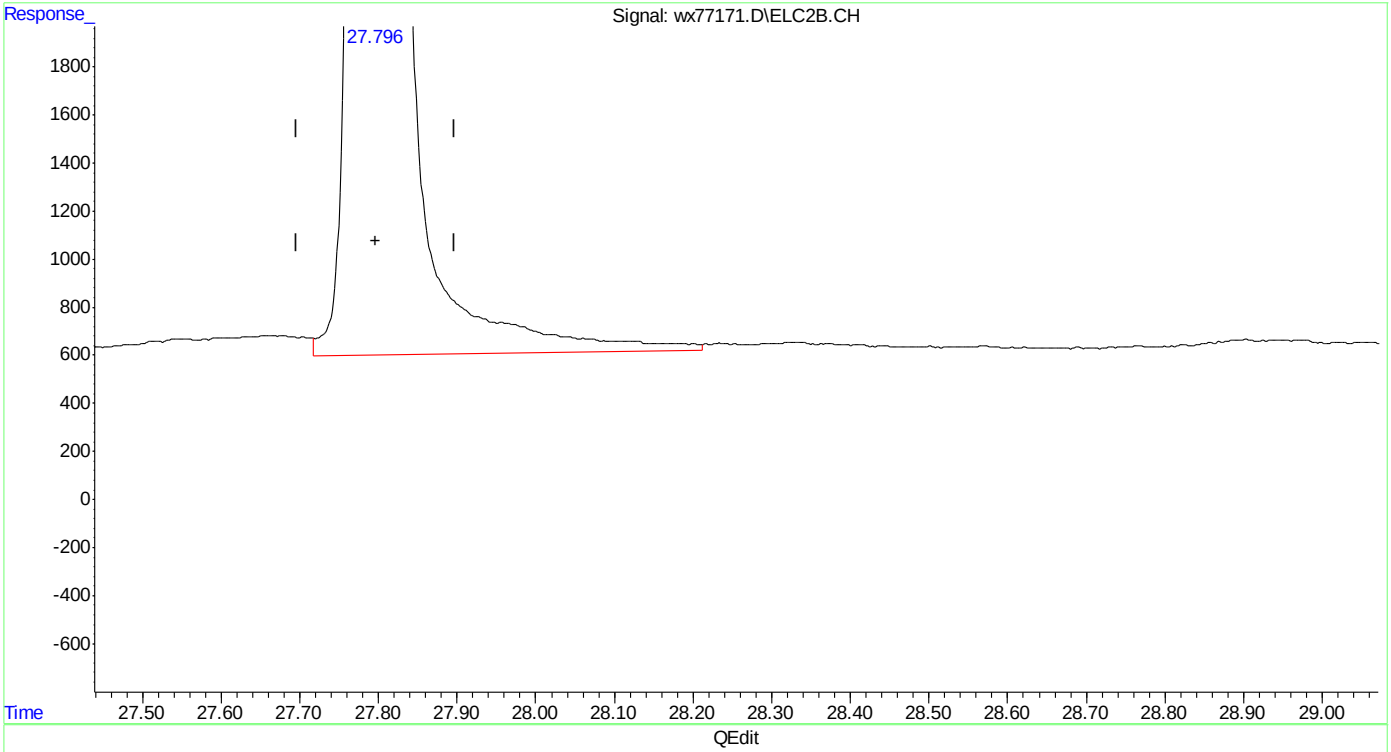
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:44:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.797min 60.045 ppb
response 534863

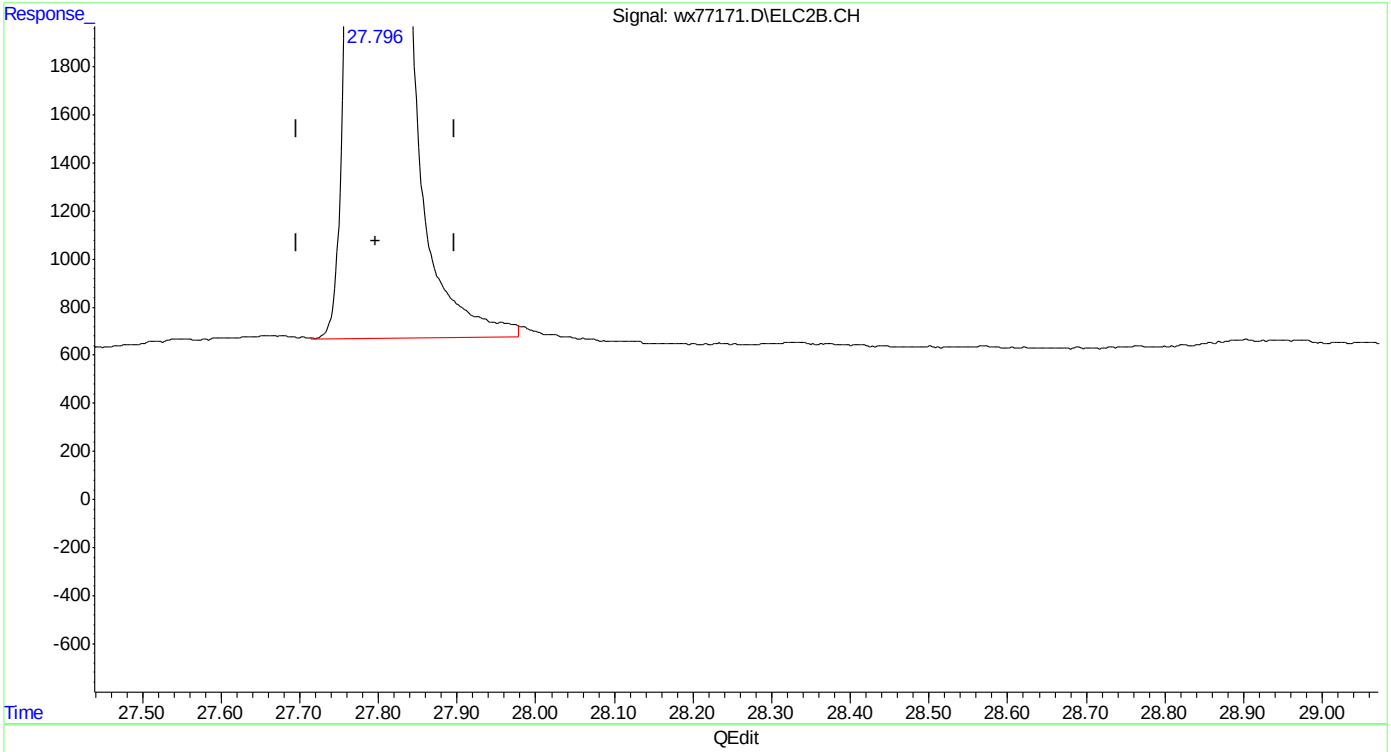
(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 09:46:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77171.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 9:10 am
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 09:44:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.796min 58.029 ppb m
response 516908

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 09:46:08 2016

SGS ACCUTEST MC46423

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77183.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:40 pm
Operator : tonyf
Sample : mc46423-7ms,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:42:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.716	1311211	46.399 ppb
Spiked Amount 50.000		Recovery =	92.80%
6) s 2,3,4-trifluorotoluene	19.870	1081976	47.216 ppb
Spiked Amount 50.000		Recovery =	94.43%
16) s fluorobenzene #2	14.715	414820	45.498 ppb
Spiked Amount 50.000		Recovery =	91.00%
18) s 2,3,4-trifluorotoluen...	19.869	246532	45.138 ppb
Spiked Amount 50.000		Recovery =	90.28%
Target Compounds			
1) h rt5.5-7	6.100	1028349	43.458 ppb
2) h rt7/10	8.370	1996922	84.391 ppb
3) h rt10/13	13.510	4552708	192.399 ppb
8) h rt20/25	21.600	14347091	400.289 ppb
14) mtbe #2	9.100f	202315	46.371 ppb
15) benzene #2	14.206	662839	46.660 ppb
17) toluene #2	18.730	605099	47.035 ppb
19) ethylbenzene #2	21.879	541577	47.313 ppb
20) m,p-xylene #2	22.028	1321549	95.643 ppb
21) o-xylene #2	22.837	554508	47.743 ppb
23) 1,2,4-trimethylbenzen...	24.869	586395	46.373 ppb
24) naphthalene #2	27.800	498230	55.933 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1762238	139.417 ppb

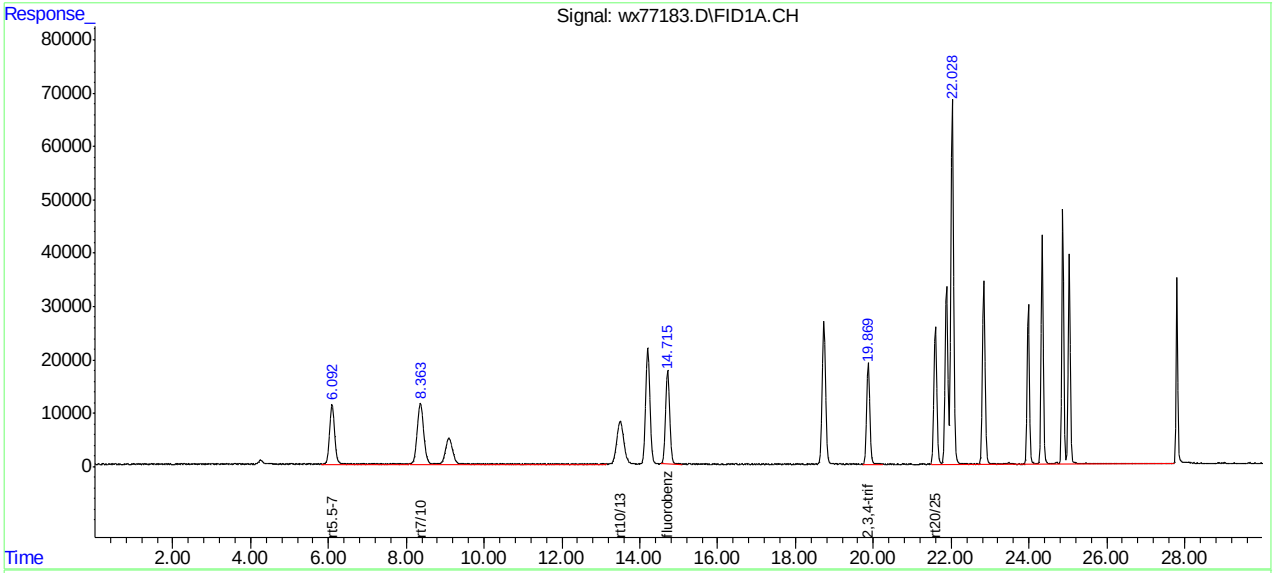
(f)=RT Delta > 1/2 Window (m)=manual int.

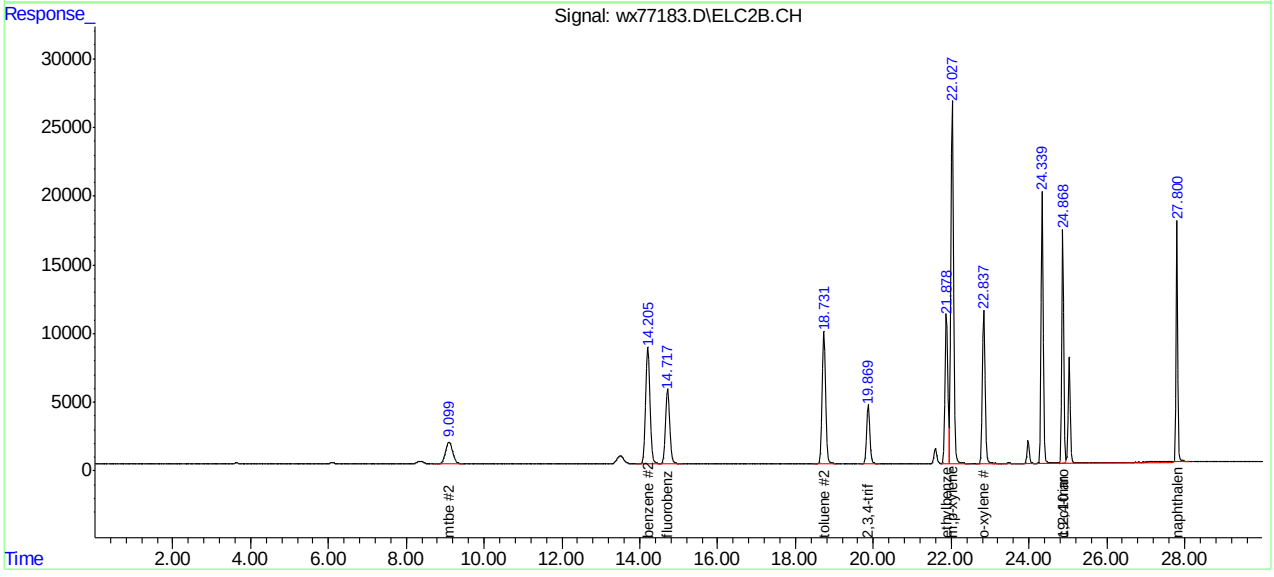
Quantitation Report (QT Reviewed)

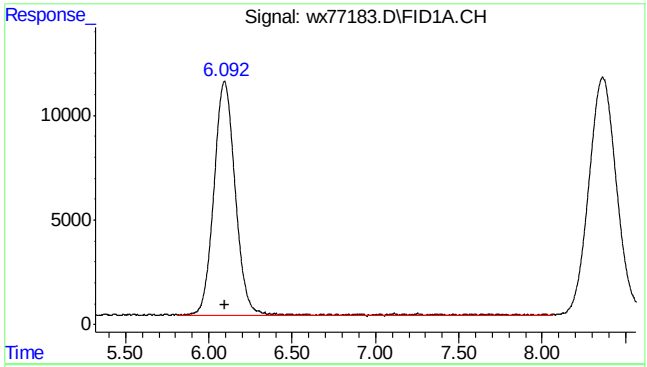
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77183.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:40 pm
Operator : tonyf
Sample : mc46423-7ms,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:42:00 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

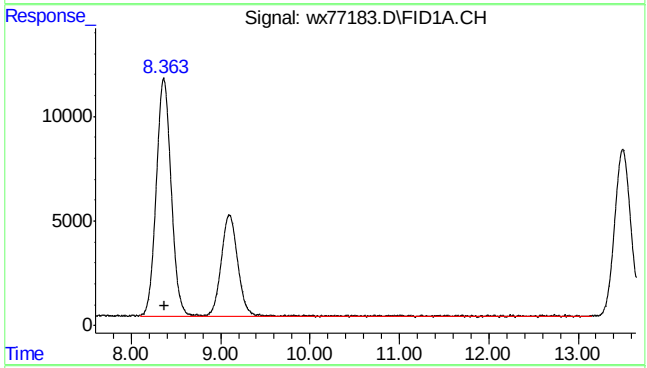






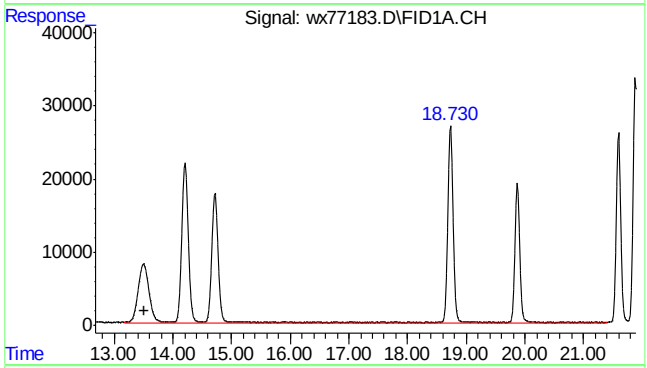
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1028349
Conc: 43.46 ppb m



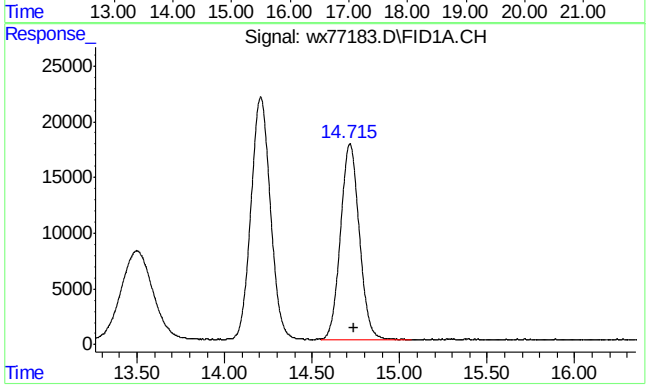
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1996922
Conc: 84.39 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 4552708
Conc: 192.40 ppb m



#4 fluorobenzene

R.T.: 14.716 min
Delta R.T.: -0.023 min
Response: 1311211
Conc: 46.40 ppb

7.4.1

7

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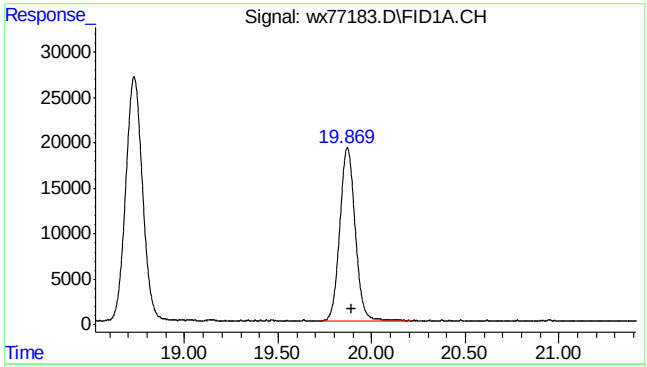
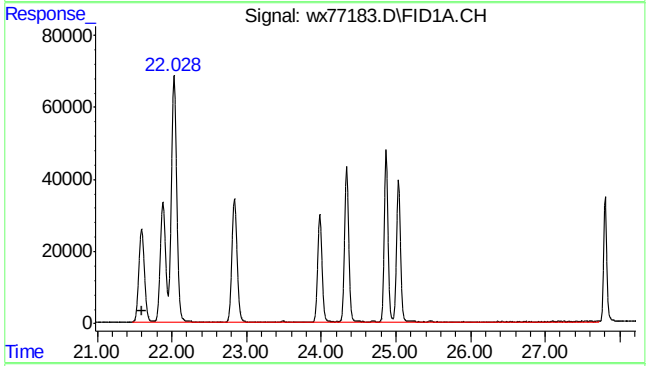


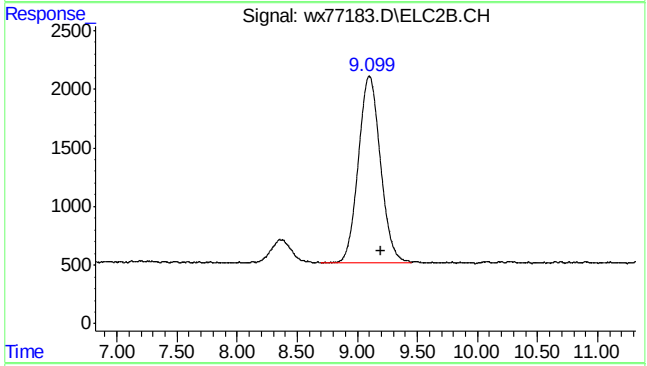
#6 2,3,4-trifluorotoluene

R.T.: 19.870 min
Delta R.T.: -0.020 min
Response: 1081976
Conc: 47.22 ppb



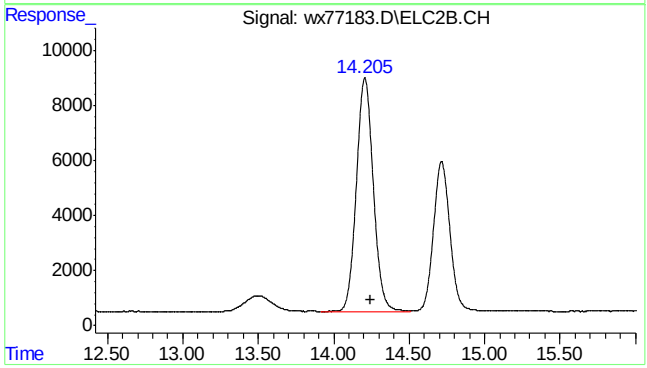
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 14347091
Conc: 400.29 ppb m



#14 mtbe #2

R.T.: 9.100 min
Delta R.T.: -0.092 min
Response: 202315
Conc: 46.37 ppb



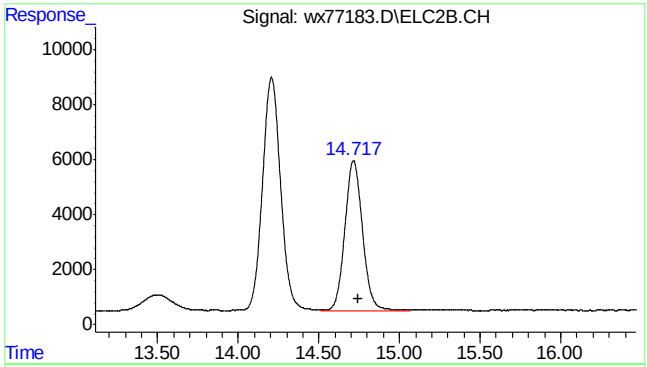
#15 benzene #2

R.T.: 14.206 min
Delta R.T.: -0.039 min
Response: 662839
Conc: 46.66 ppb

7.4.1

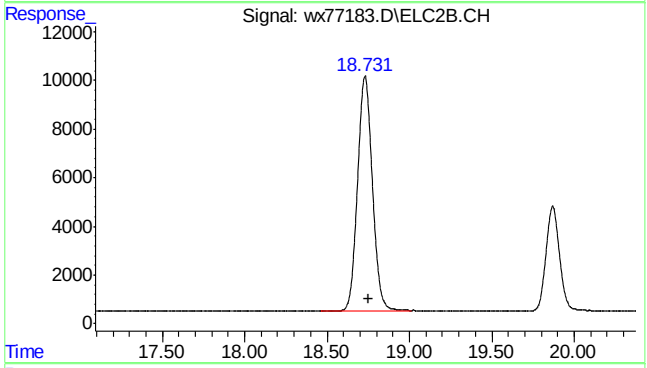
7

SGS ACCUTEST MC46423



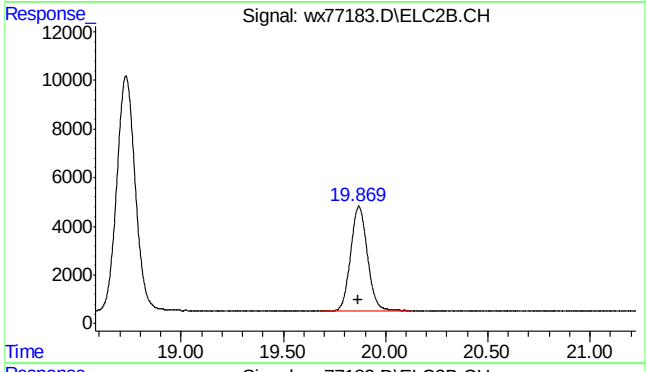
#16 fluorobenzene #2

R.T.: 14.715 min
Delta R.T.: -0.029 min
Response: 414820
Conc: 45.50 ppb



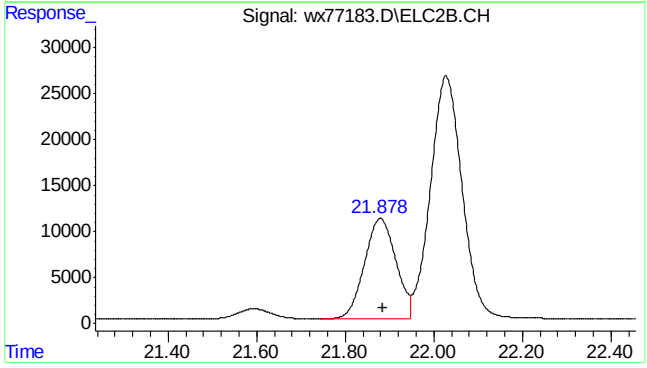
#17 toluene #2

R.T.: 18.730 min
Delta R.T.: -0.019 min
Response: 605099
Conc: 47.04 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 19.869 min
Delta R.T.: 0.000 min
Response: 246532
Conc: 45.14 ppb



#19 ethylbenzene #2

R.T.: 21.879 min
Delta R.T.: -0.006 min
Response: 541577
Conc: 47.31 ppb

7.4.1

7

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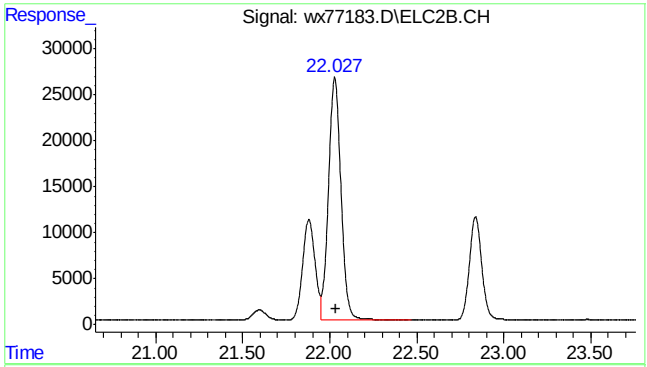
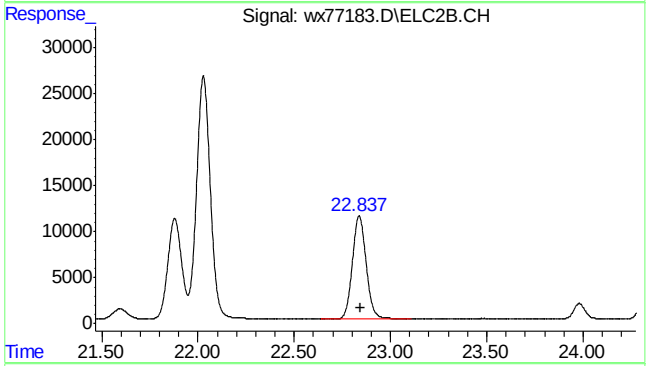


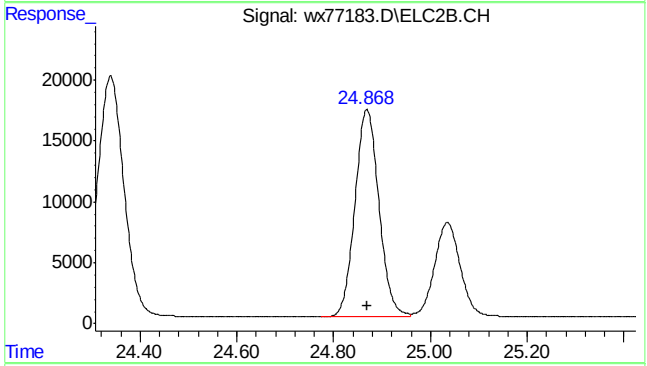
#20 m,p-xylene #2

R.T.: 22.028 min
Delta R.T.: -0.006 min
Response: 1321549
Conc: 95.64 ppb



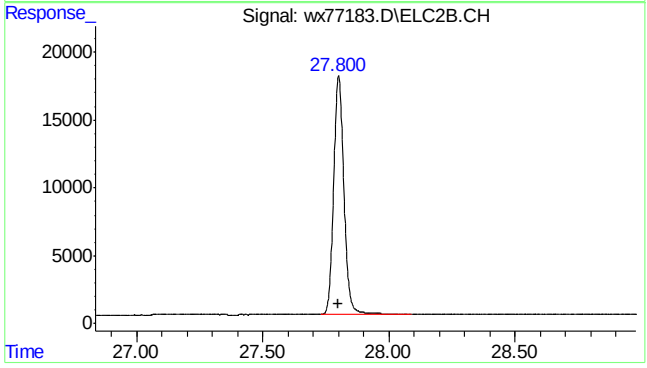
#21 o-xylene #2

R.T.: 22.837 min
Delta R.T.: -0.005 min
Response: 554508
Conc: 47.74 ppb



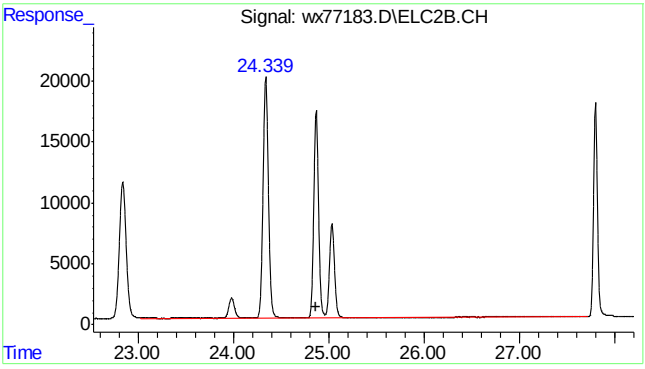
#23 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: 0.000 min
Response: 586395
Conc: 46.37 ppb



#24 naphthalene #2

R.T.: 27.800 min
Delta R.T.: 0.003 min
Response: 498230
Conc: 55.93 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1762238
Conc: 139.42 ppb m

7.4.1

7

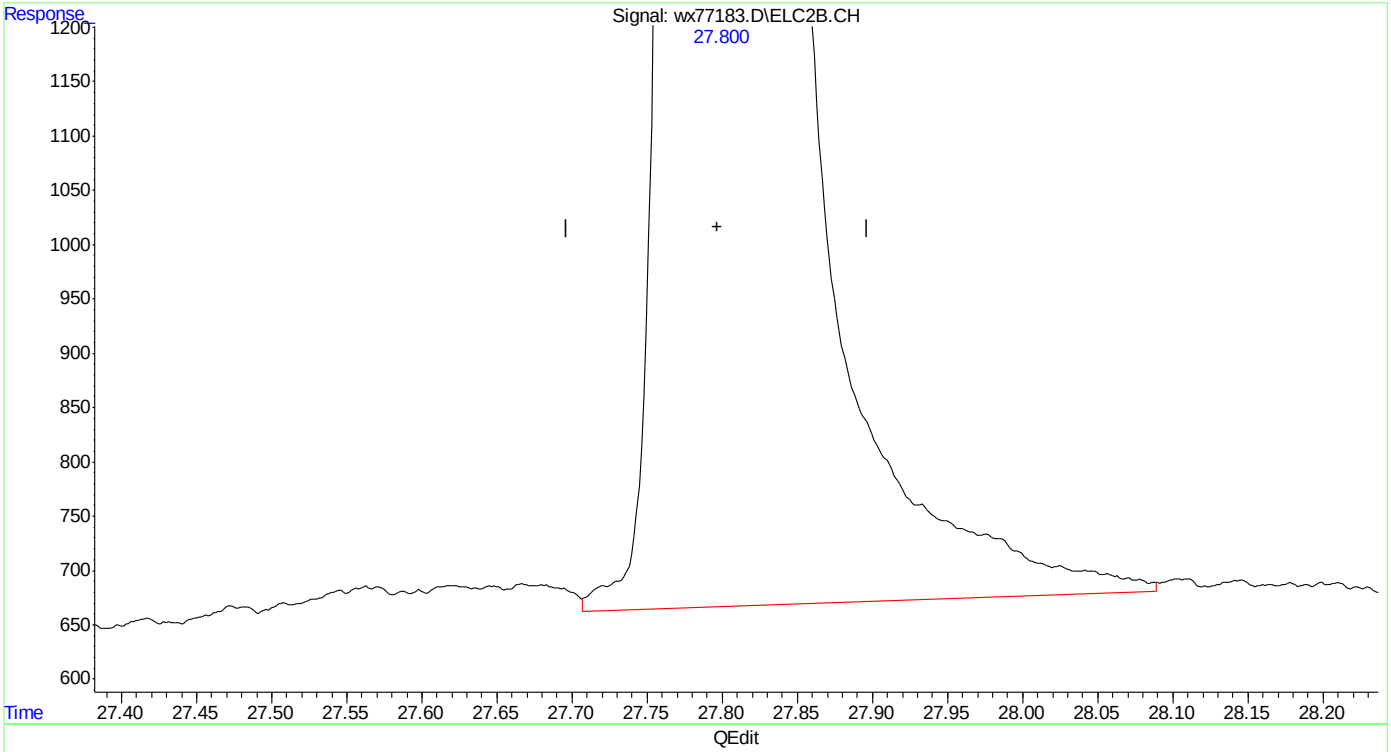
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77183.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:40 pm
Operator : tonyf
Sample : mc46423-7ms,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:12 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.801min 56.213 ppb
response 500726

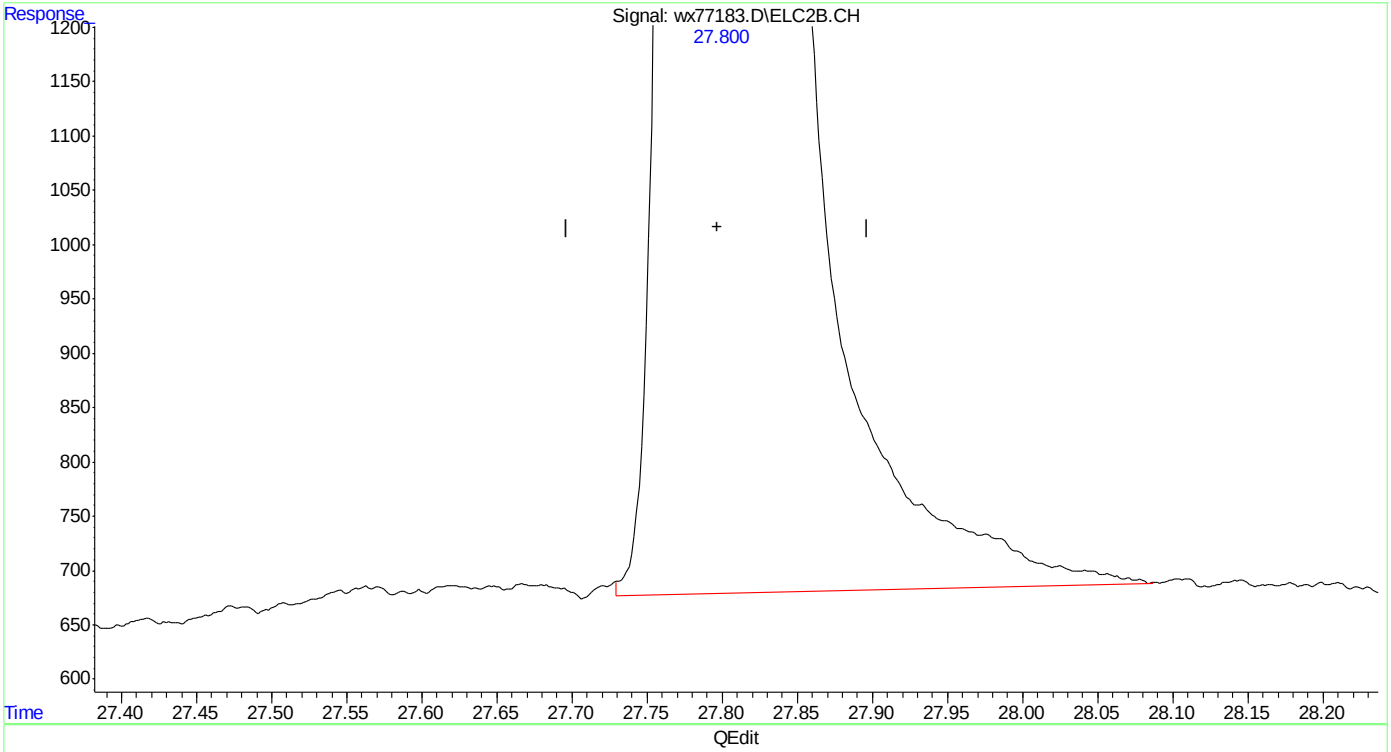
(+) = Expected Retention Time
wx160620vph.M Tue Jun 21 06:39:57 2016

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77183.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 4:40 pm
Operator : tonyf
Sample : mc46423-7ms,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 15 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:12 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.800min 55.933 ppb m
response 498230

(+) = Expected Retention Time
wx160620vph.M Tue Jun 21 06:40:03 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 5:17 pm
Operator : tonyf
Sample : mc46423-7msd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:41:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.696	1342995	47.524	ppb	
Spiked Amount 50.000		Recovery =	95.05%		
6) s 2,3,4-trifluorotoluene	19.863	1108471	48.372	ppb	
Spiked Amount 50.000		Recovery =	96.74%		
16) s fluorobenzene #2	14.696	421590	46.240	ppb	
Spiked Amount 50.000		Recovery =	92.48%		
18) s 2,3,4-trifluorotoluen...	19.863	253301	46.378	ppb	
Spiked Amount 50.000		Recovery =	92.76%		
Target Compounds					
1) h rt5.5-7	6.100	1077519	45.536	ppb	
2) h rt7/10	8.370	2034266	85.969	ppb	
3) h rt10/13	13.510	4569248	193.098	ppb	
8) h rt20/25	21.600	14197607	396.118	ppb	
14) mtbe #2	9.060f	208427	47.773	ppb	m
15) benzene #2	14.189f	666502	46.918	ppb	
17) toluene #2	18.721	610150	47.428	ppb	
19) ethylbenzene #2	21.876	541443	47.301	ppb	
20) m,p-xylene #2	22.025	1323379	95.776	ppb	
21) o-xylene #2	22.834	556312	47.898	ppb	
22) t 1,3,5-trimethylbenzen...	24.337	769448	45.142	ppb	
23) 1,2,4-trimethylbenzen...	24.867	587913	46.493	ppb	
24) naphthalene #2	27.800	505333	56.730	ppb	m
25) h c9-c10 arom as 1,2,4-tmb	24.870	1790307	141.637	ppb	

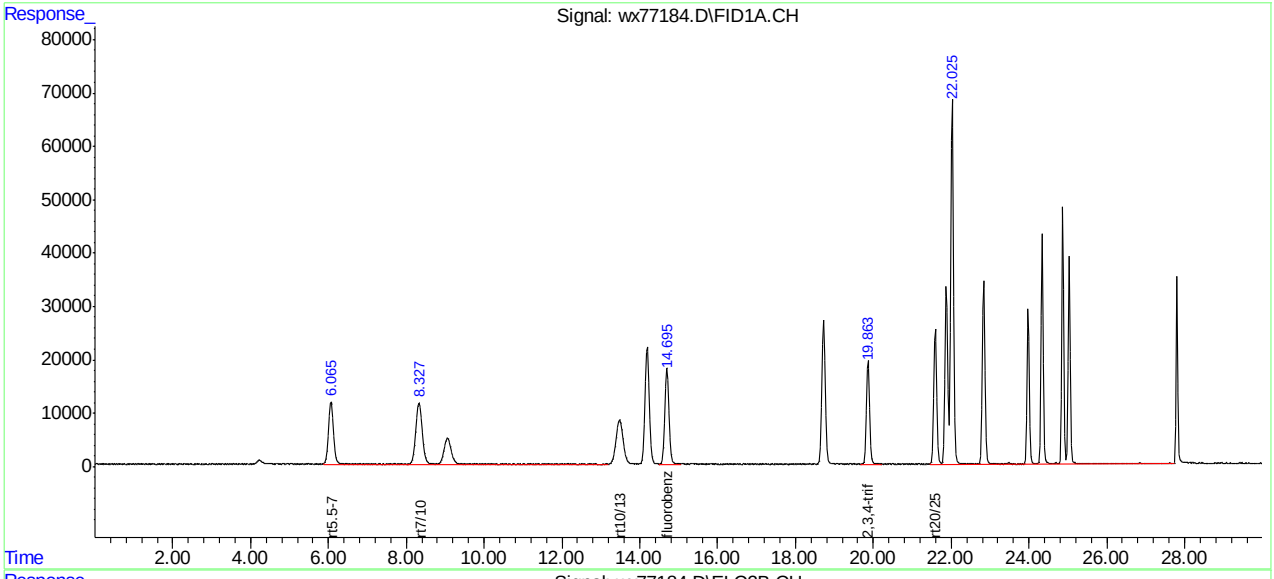
(f)=RT Delta > 1/2 Window (m)=manual int.

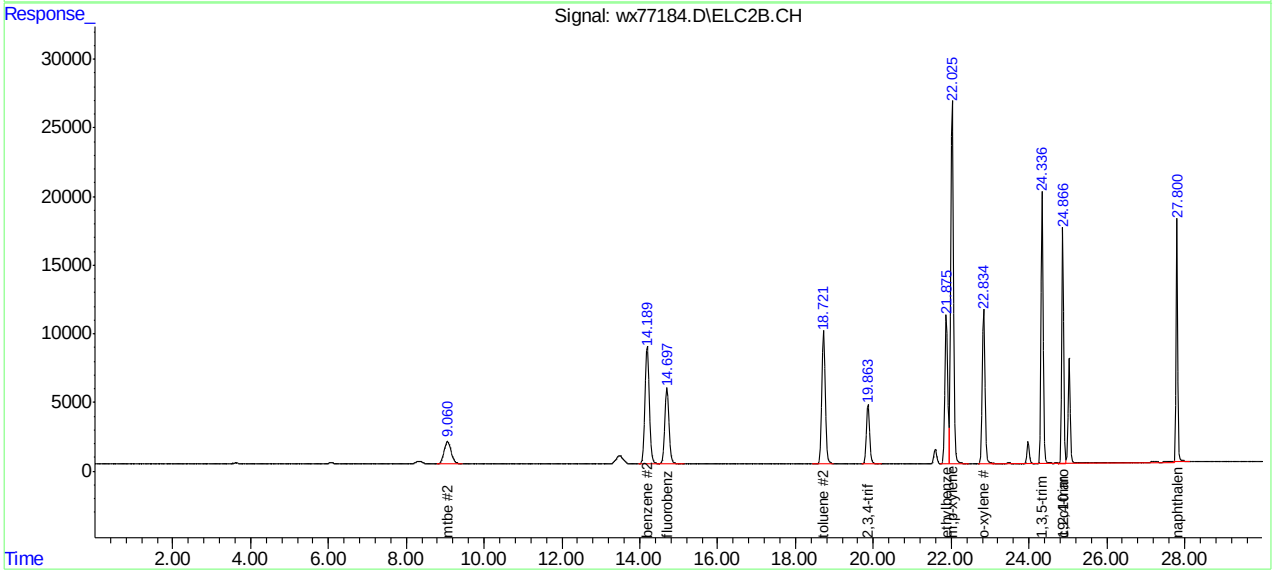
Quantitation Report (QT Reviewed)

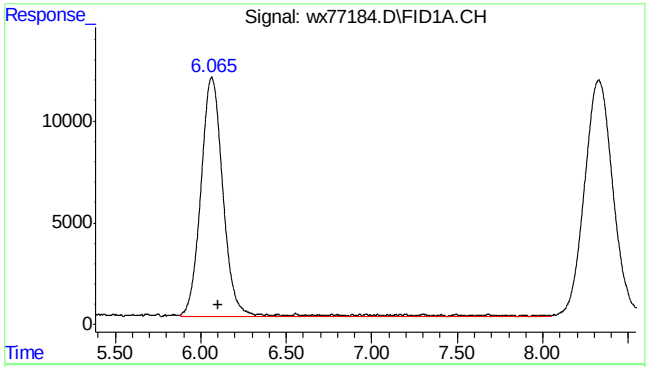
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 5:17 pm
Operator : tonyf
Sample : mc46423-7msd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:41:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

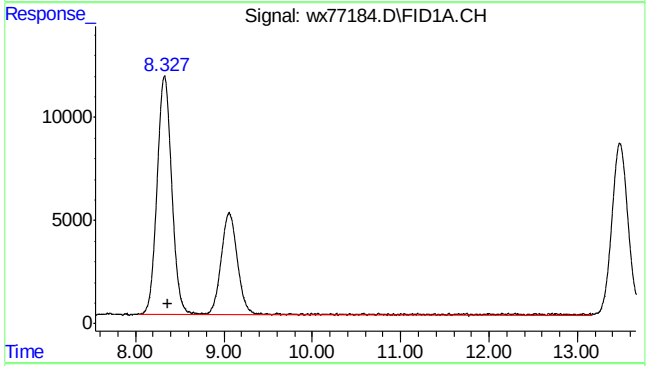






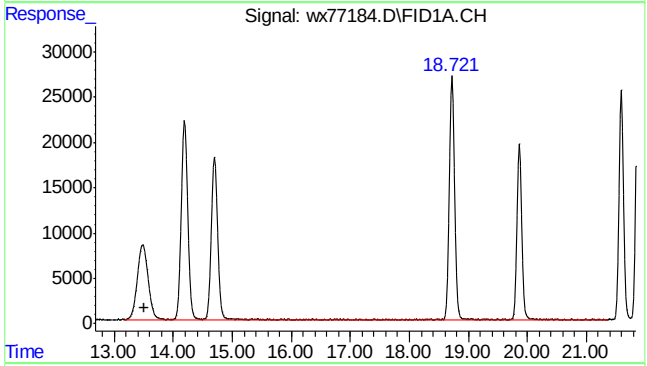
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1077519
Conc: 45.54 ppb m



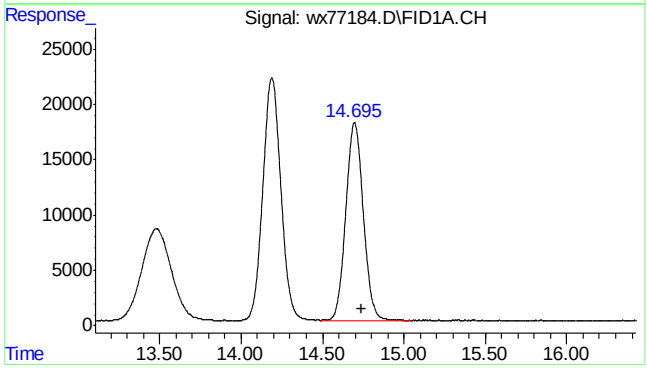
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2034266
Conc: 85.97 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 4569248
Conc: 193.10 ppb m



#4 fluorobenzene

R.T.: 14.696 min
Delta R.T.: -0.042 min
Response: 1342995
Conc: 47.52 ppb

7.4.2

7

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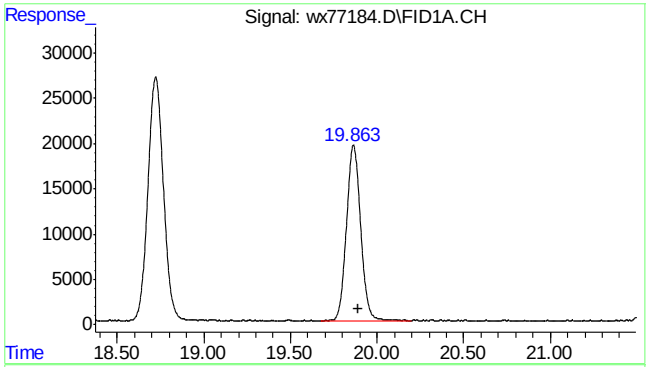
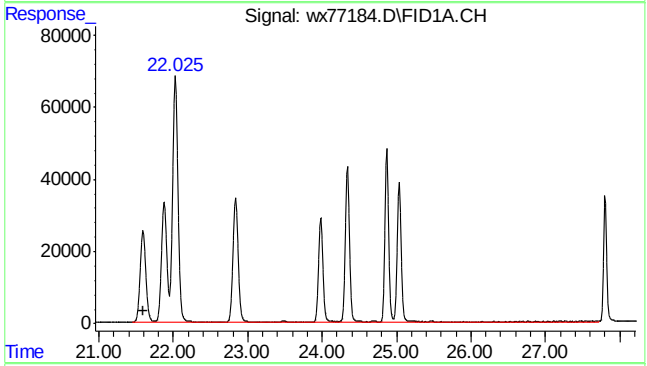


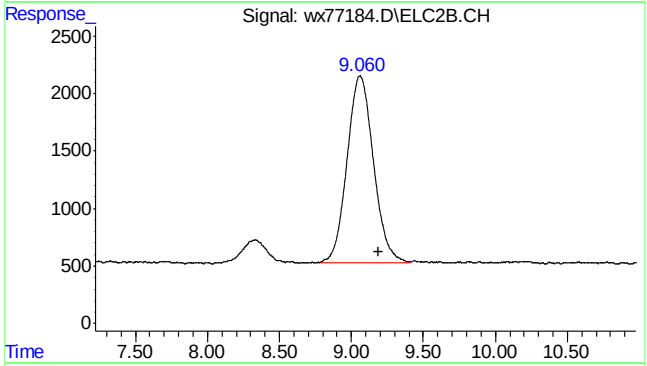
#6 2,3,4-trifluorotoluene

R.T.: 19.863 min
Delta R.T.: -0.027 min
Response: 1108471
Conc: 48.37 ppb



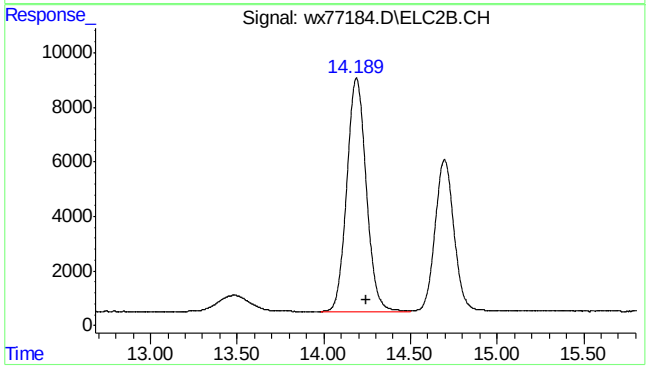
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 14197607
Conc: 396.12 ppb m



#14 mtbe #2

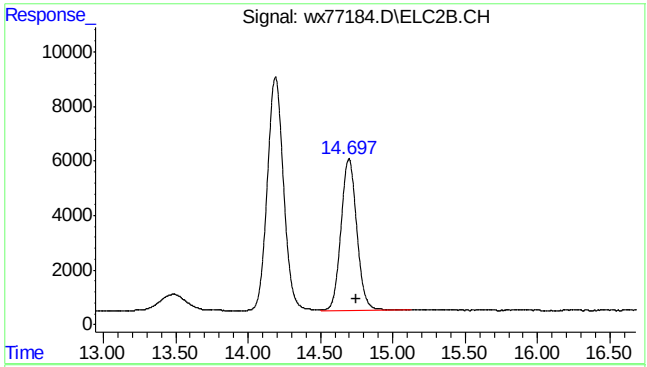
R.T.: 9.060 min
Delta R.T.: -0.131 min
Response: 208427
Conc: 47.77 ppb m



#15 benzene #2

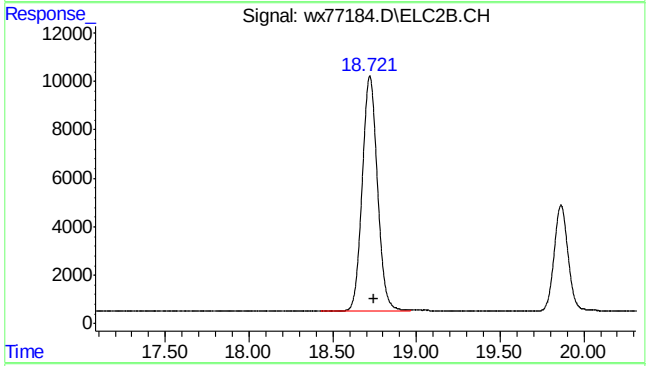
R.T.: 14.189 min
Delta R.T.: -0.056 min
Response: 666502
Conc: 46.92 ppb

SGS ACCUTEST MC46423



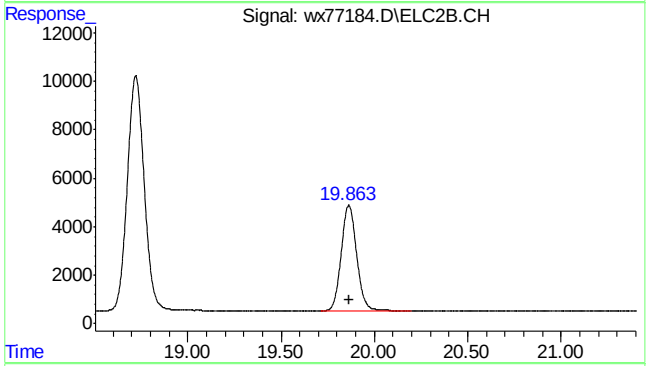
#16 fluorobenzene #2

R.T.: 14.696 min
Delta R.T.: -0.048 min
Response: 421590
Conc: 46.24 ppb



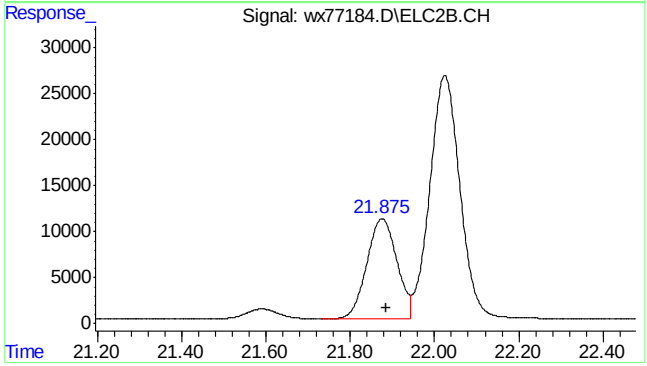
#17 toluene #2

R.T.: 18.721 min
Delta R.T.: -0.028 min
Response: 610150
Conc: 47.43 ppb



#18 2,3,4-trifluorotoluene #2

R.T.: 19.863 min
Delta R.T.: -0.006 min
Response: 253301
Conc: 46.38 ppb



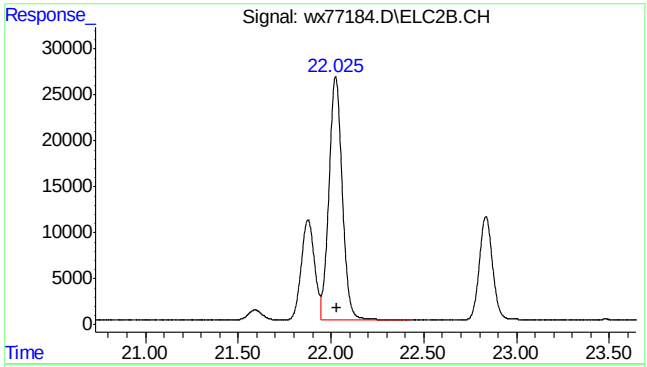
#19 ethylbenzene #2

R.T.: 21.876 min
Delta R.T.: -0.010 min
Response: 541443
Conc: 47.30 ppb

7.4.2

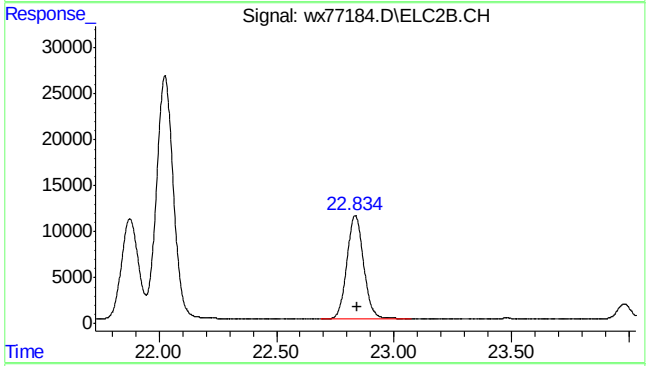
7

SGS ACCUTEST MC46423



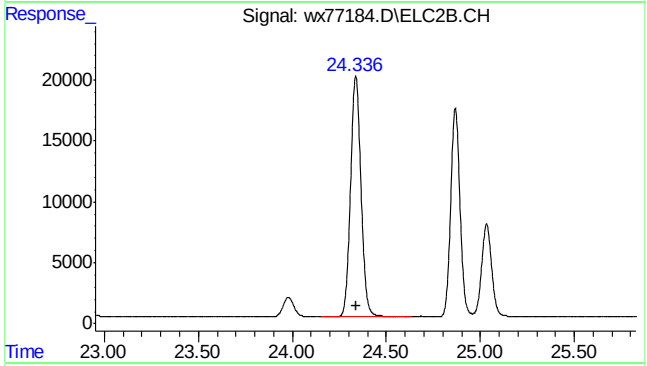
#20 m,p-xylene #2

R.T.: 22.025 min
Delta R.T.: -0.009 min
Response: 1323379
Conc: 95.78 ppb



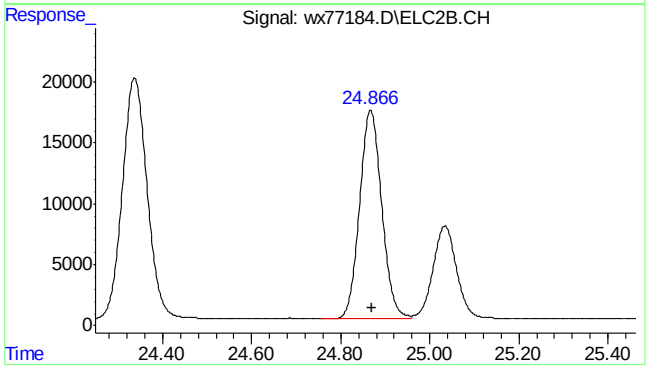
#21 o-xylene #2

R.T.: 22.834 min
Delta R.T.: -0.008 min
Response: 556312
Conc: 47.90 ppb



#22 1,3,5-trimethylbenzene #2

R.T.: 24.337 min
Delta R.T.: -0.003 min
Response: 769448
Conc: 45.14 ppb



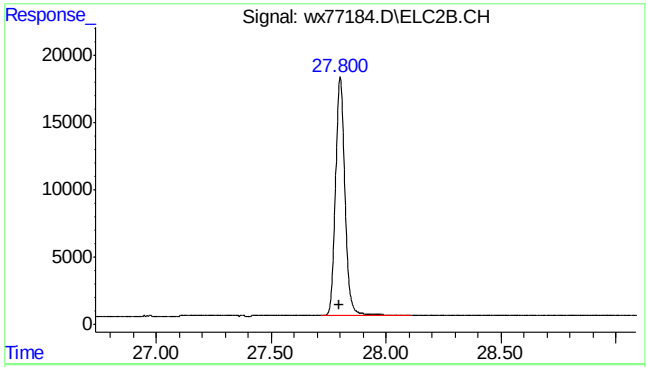
#23 1,2,4-trimethylbenzene #2

R.T.: 24.867 min
Delta R.T.: -0.003 min
Response: 587913
Conc: 46.49 ppb

7.4.2

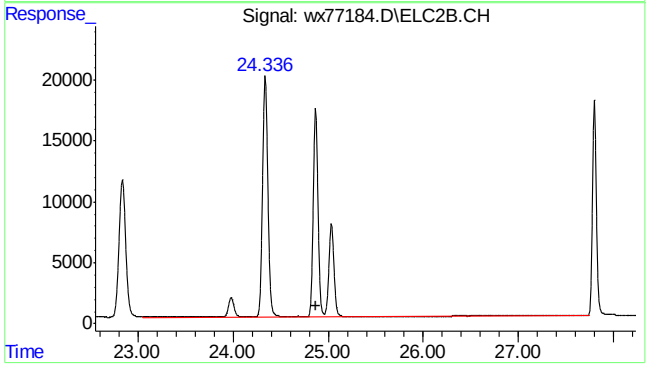
7

SGS ACCUTEST MC46423



#24 naphthalene #2

```
      R.T.:   27.800 min
Delta R.T.:    0.003 min
  Response:    505333
      Conc:  56.73 ppb m
```



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:   1790307
      Conc: 141.64 ppb m
```

7.4.2

7

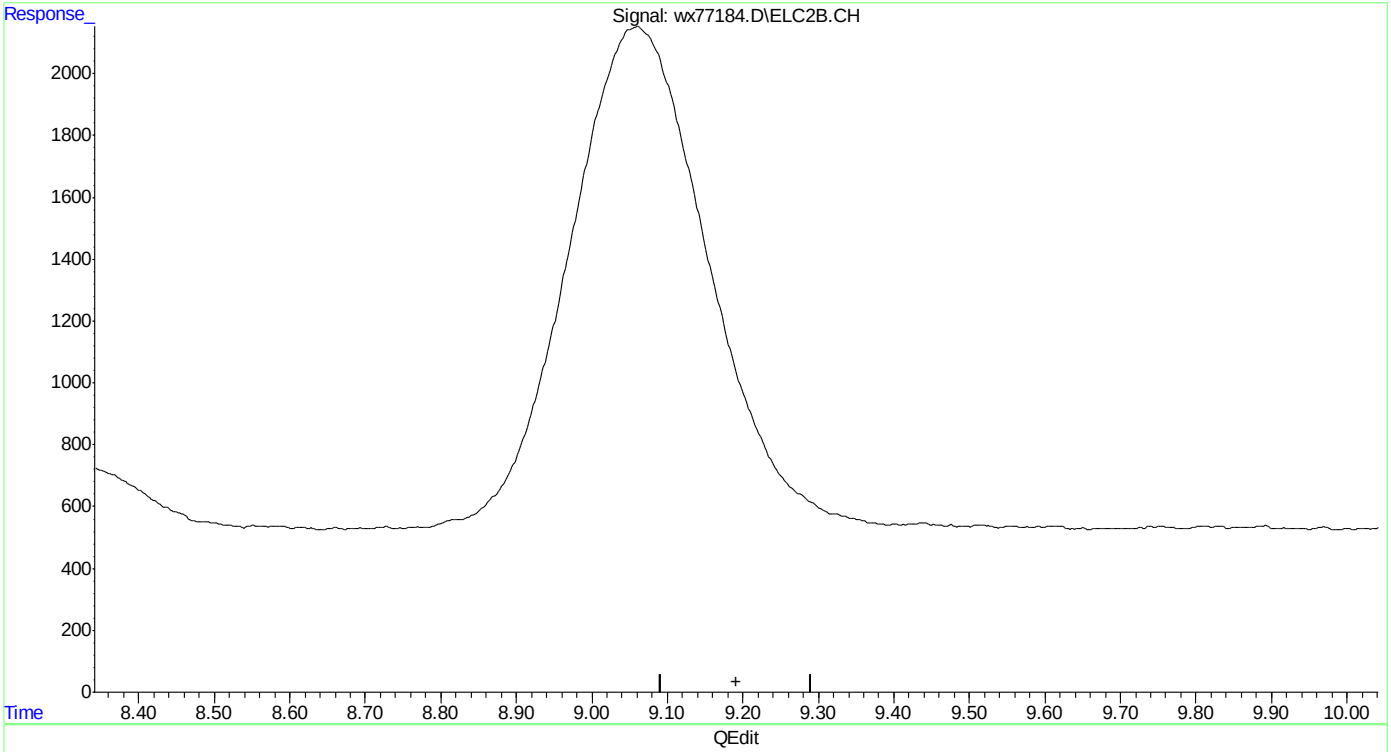
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 5:17 pm
Operator : tonyf
Sample : mc46423-7msd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2
9.191min 0.000 ppb
response 0

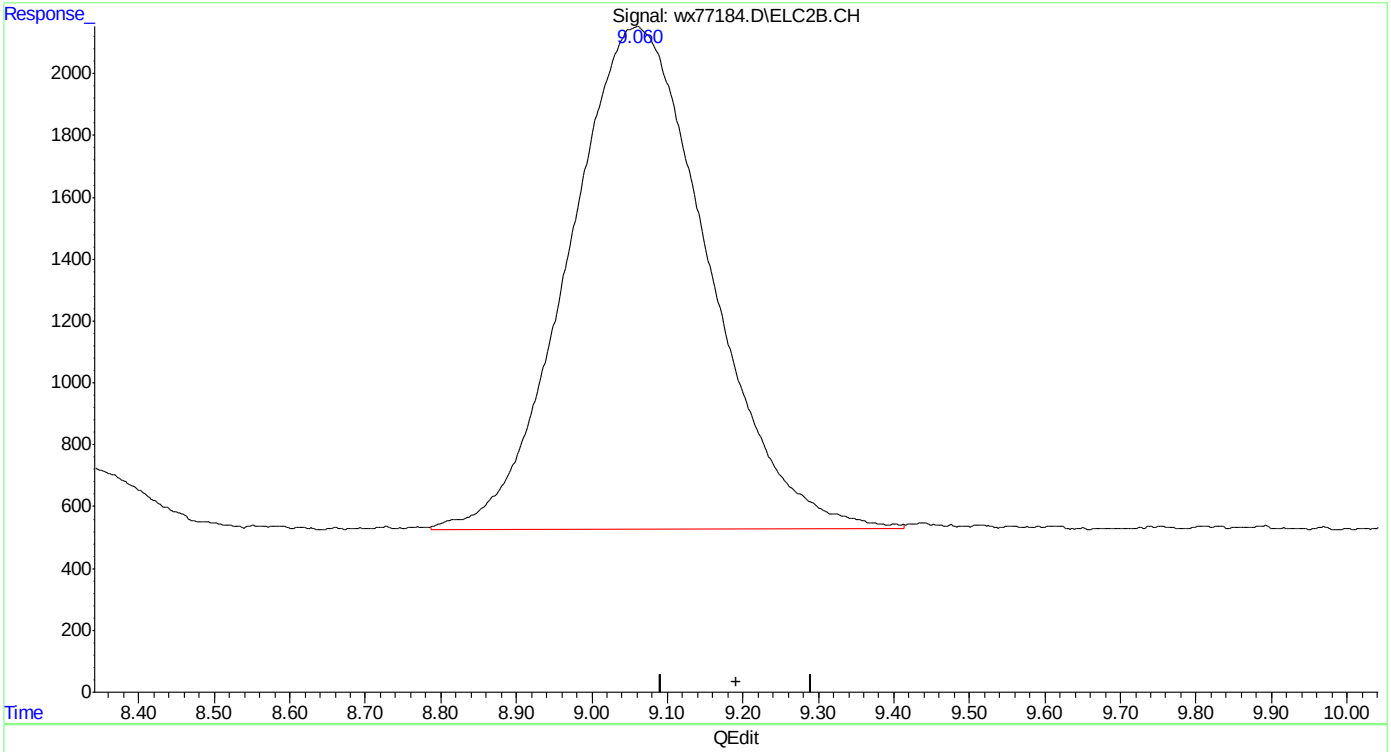
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 20 Jun 2016   5:17 pm
Operator  : tonyf
Sample    : mc46423-7msd,w,vmavph,00
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 16   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(14) mtbe #2

9.060min 47.773 ppb m

response 208427

(+) = Expected Retention Time

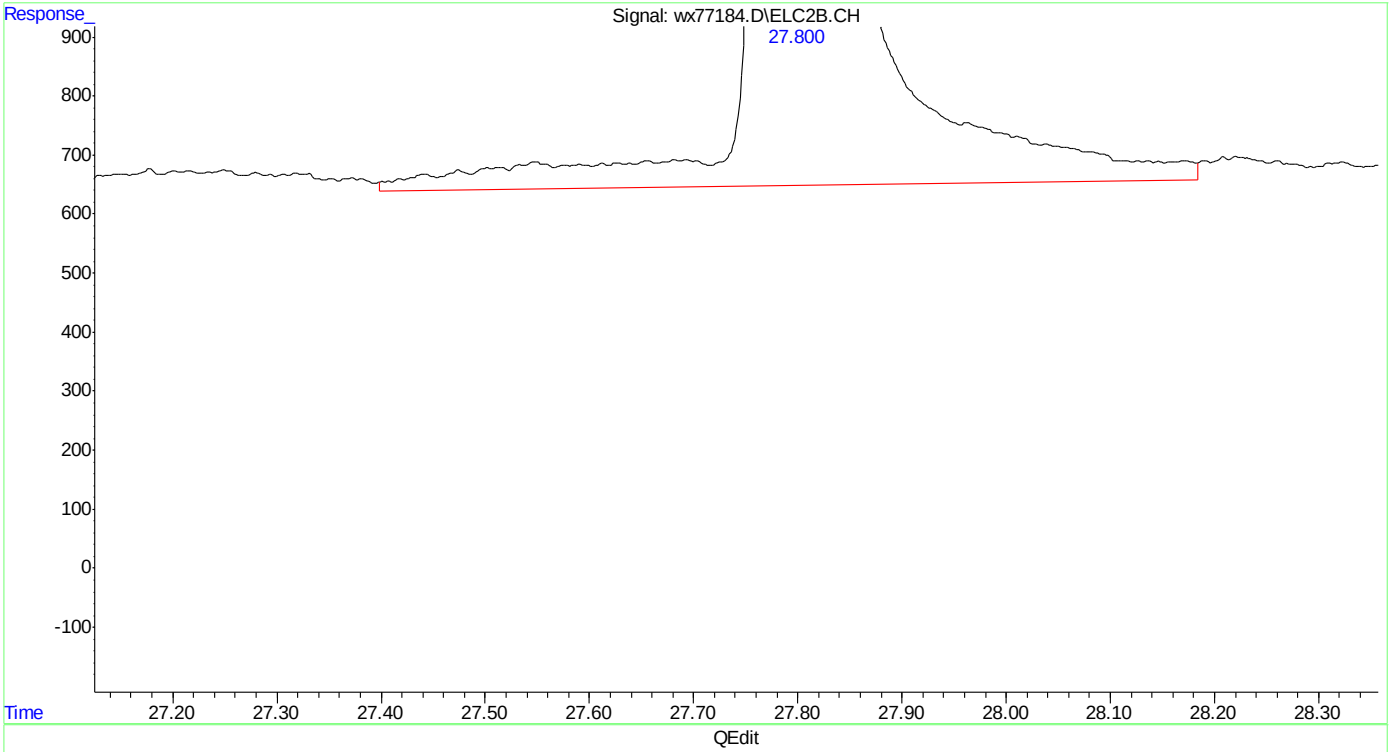
wx160620vph.M Tue Jun 21 06:40:48 2016

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 5:17 pm
Operator : tonyf
Sample : mc46423-7msd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.800min 58.543 ppb
response 521479

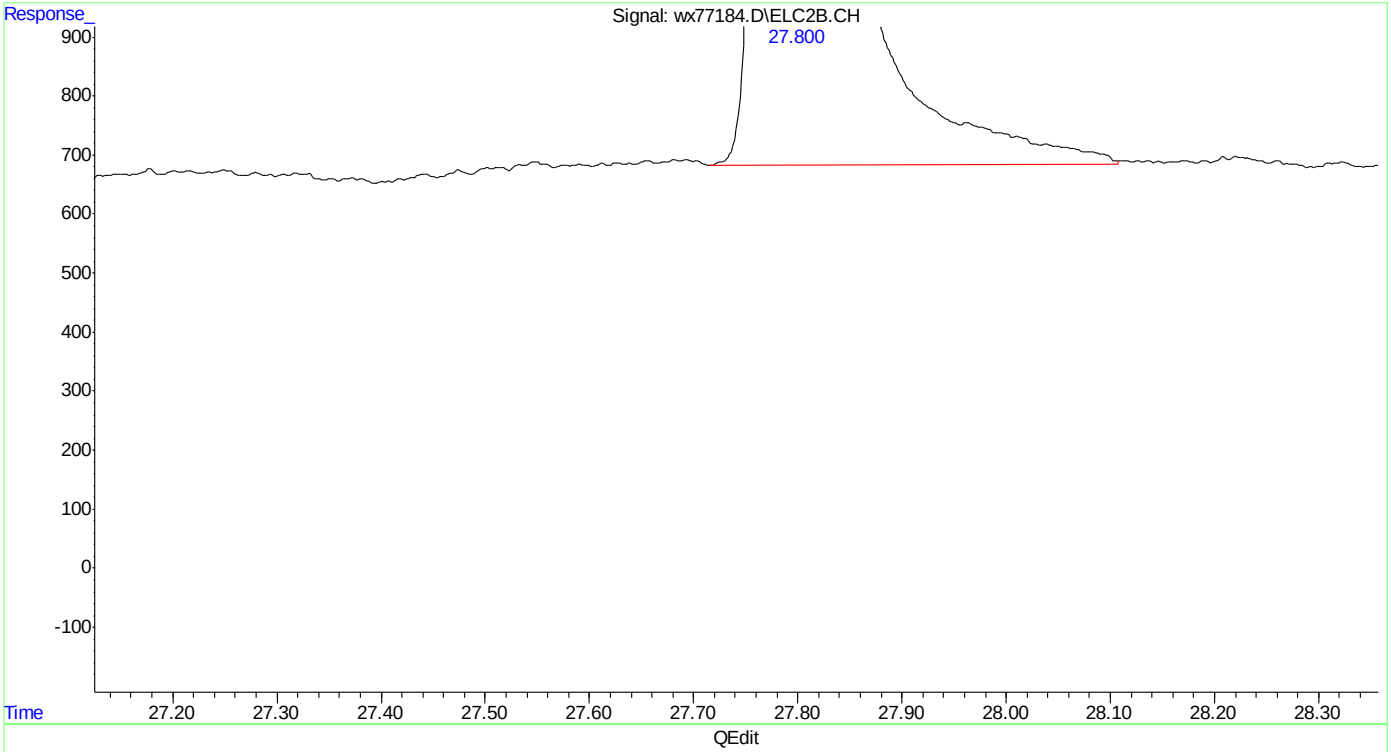
(+) = Expected Retention Time
wx160620vph.M Tue Jun 21 06:41:01 2016

Quantitation Report (Qedit)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77184.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 5:17 pm
Operator : tonyf
Sample : mc46423-7msd,w,vmavph,00
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 06:29:17 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.800min 56.730 ppb m
response 505333

(+) = Expected Retention Time
wx160620vph.M Tue Jun 21 06:41:05 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:29:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.741	28671114	1018.947	ppb	
Spiked Amount	50.000		Recovery	= 2037.89%		
9) s	2,3,4-trifluorotoluene	19.880	22463564	975.961	ppb	
Spiked Amount	50.000		Recovery	= 1951.92%		
25) s	fluorobenzene #2	14.740	8963931	980.786	ppb	
Spiked Amount	50.000		Recovery	= 1961.57%		
27) s	2,3,4-trifluorotoluen...	19.879	5182085	937.302	ppb	
Spiked Amount	50.000		Recovery	= 1874.60%		
	Target Compounds					
1) h	rt5.5-7	6.100	16575302	748.263	ppb	
2) h	rt7/10	8.370	26128627	899.806	ppb	
3)	mtbe	9.129	10775658	828.174	ppb	
4) h	rt10/13	13.510	10034529	416.080	ppb	
5)	benzene	14.235	35552176	993.954	ppb	
8)	toluene	18.744	34646676	996.645	ppb	
11) h	rt20/25	21.600	28442696	764.465	ppb	
13)	ethylbenzene	21.889	33968965	981.239	ppb	
14)	m,p-xylene	22.040	69371303	1939.692	ppb	
15)	o-xylene	22.843	34376585	961.631	ppb	
16) h	Decane	23.990	20430393	545.890	ppb	
17) t	1,3,5-trimethylbenzene	24.343	33902826	898.886	ppb	
18)	1,2,4-trimethylbenzene	24.871	32051378	892.402	ppb	
19) h	Butylcyclohexane	25.040	29073556	734.582	ppb	
20)	naphthalene	27.798	14041107	796.103	ppb	m
23)	mtbe #2	9.130	3594332	792.868	ppb	
24)	benzene #2	14.234	13757761	962.513	ppb	
26)	toluene #2	18.744	12502254	967.055	ppb	
28)	ethylbenzene #2	21.888	10933666	946.317	ppb	
29)	m,p-xylene #2	22.039	25551070	1820.343	ppb	
30)	o-xylene #2	22.842	11062325	944.244	ppb	
31) t	1,3,5-trimethylbenzen...	24.343	14997143	859.325	ppb	
32)	1,2,4-trimethylbenzen...	24.870	11123956	859.546	ppb	
33)	naphthalene #2	27.797	6832135	740.579	ppb	m
34) h	c9-c10 arom as 1,2,4-tmb	24.870	11119984	859.630	ppb	

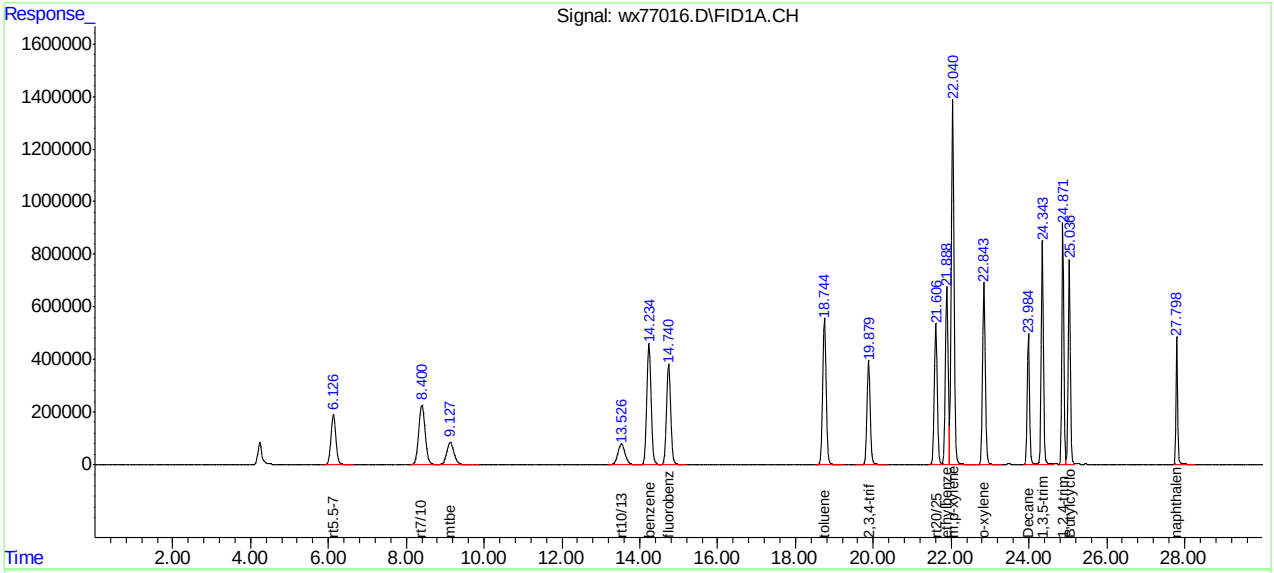
(f)=RT Delta > 1/2 Window (m)=manual int.

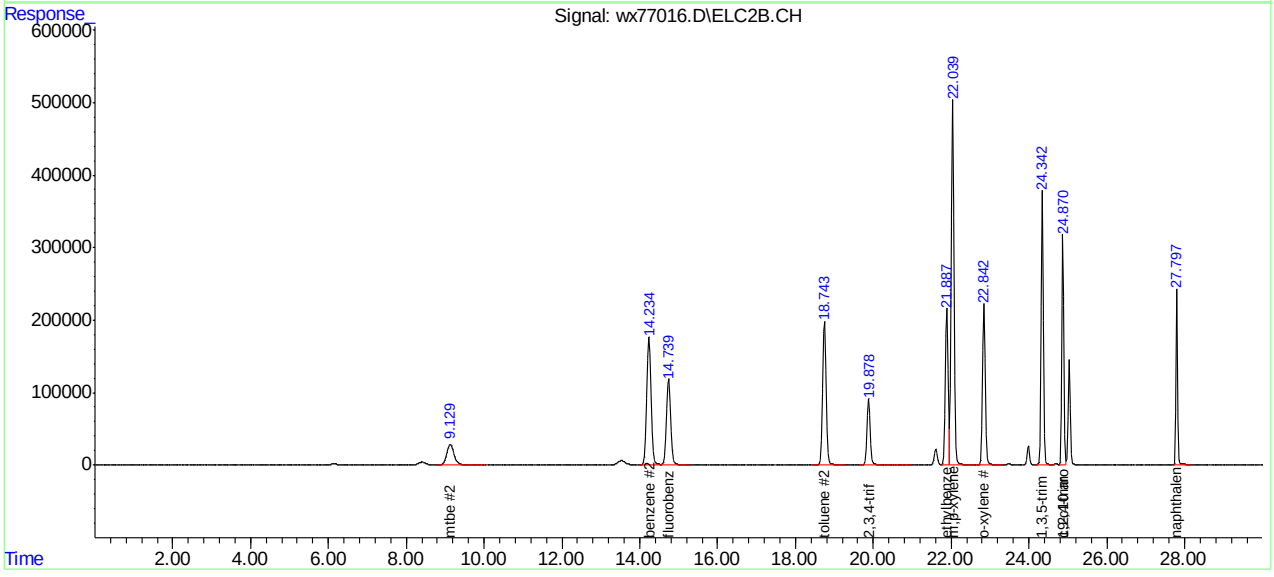
Quantitation Report (QT Reviewed)

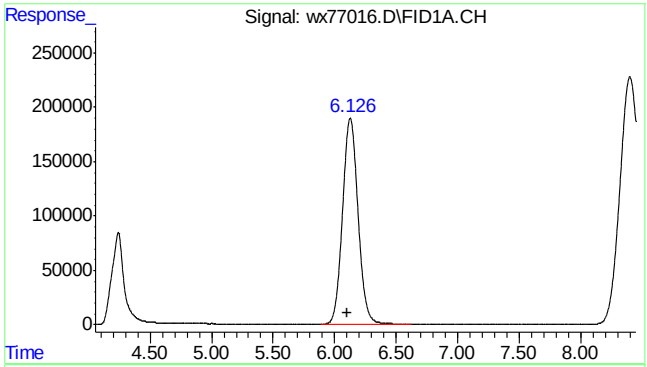
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:29:03 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

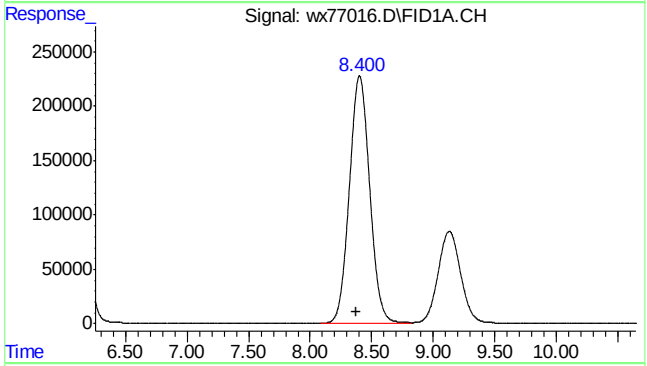






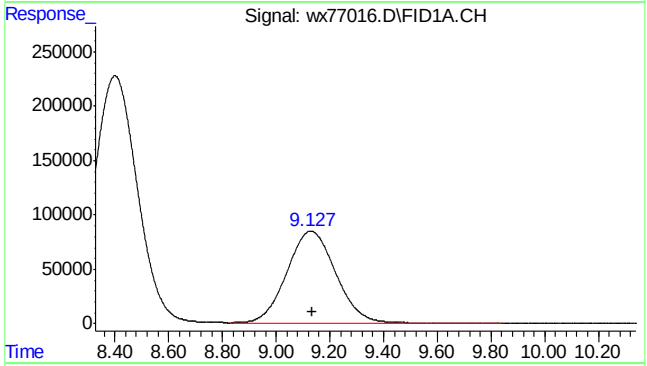
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 16575302
Conc: 748.26 ppb m



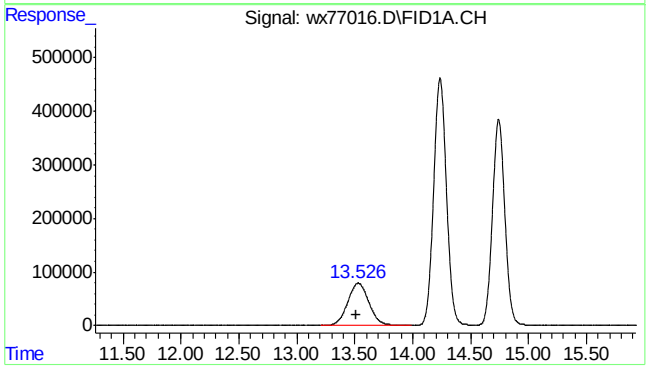
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 26128627
Conc: 899.81 ppb m



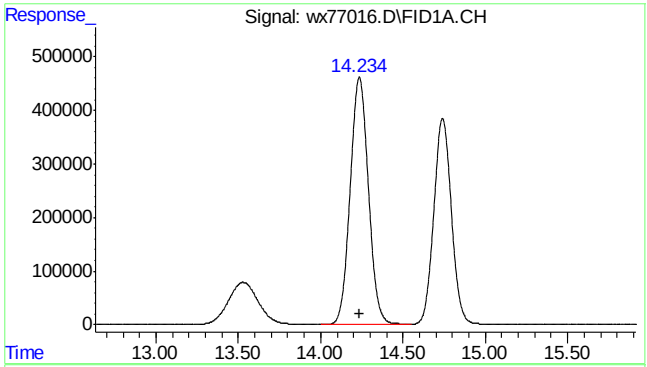
#3 mtbe

R.T.: 9.129 min
Delta R.T.: -0.007 min
Response: 10775658
Conc: 828.17 ppb



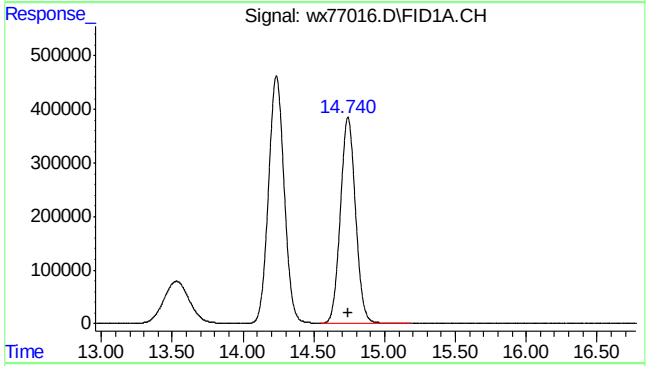
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 10034529
Conc: 416.08 ppb m



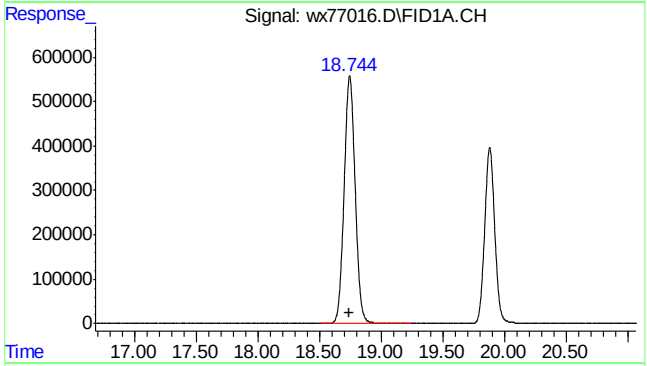
#5 benzene

R.T.: 14.235 min
Delta R.T.: 0.000 min
Response: 35552176
Conc: 993.95 ppb



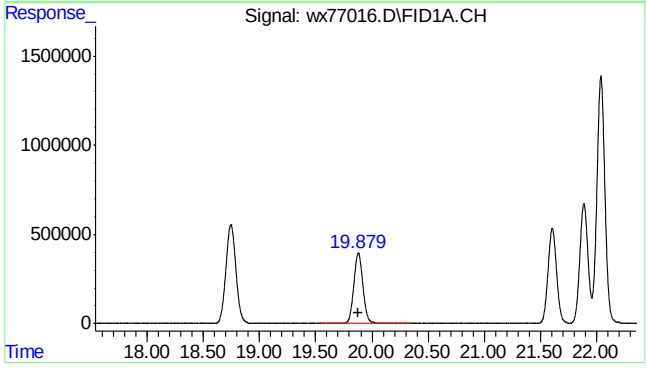
#6 fluorobenzene

R.T.: 14.741 min
Delta R.T.: 0.000 min
Response: 28671114
Conc: 1018.95 ppb



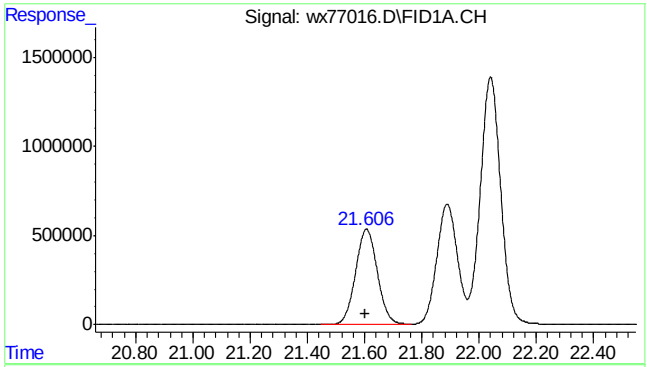
#8 toluene

R.T.: 18.744 min
Delta R.T.: 0.001 min
Response: 34646676
Conc: 996.64 ppb



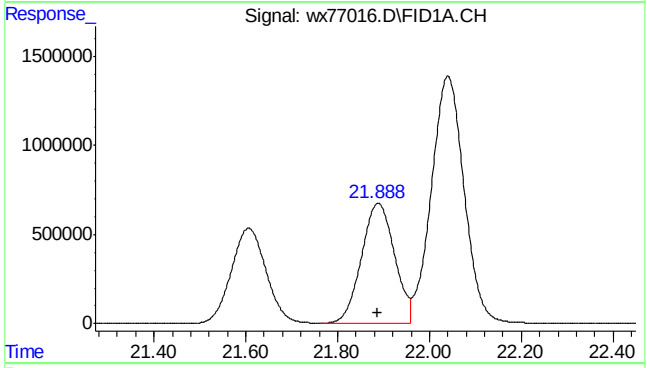
#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: 0.000 min
Response: 22463564
Conc: 975.96 ppb



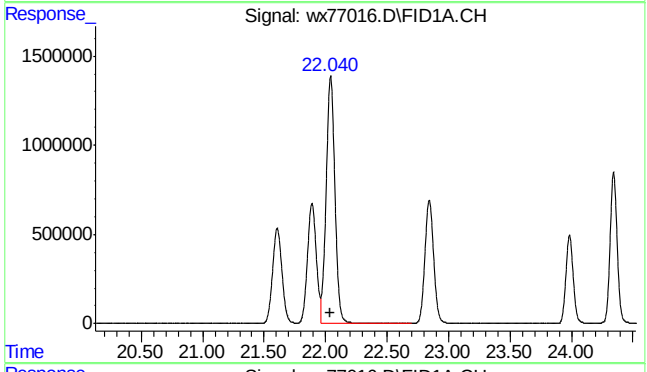
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 28442696
Conc: 764.47 ppb m



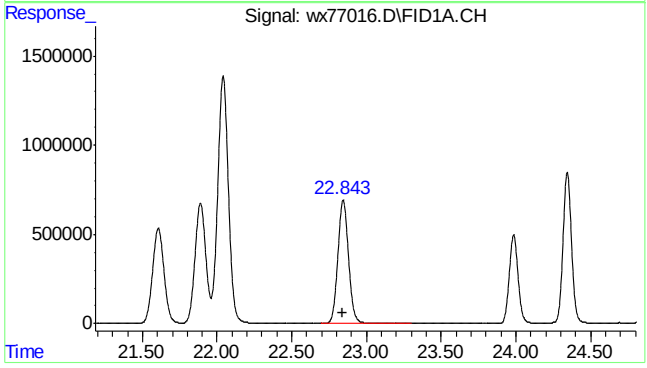
#13 ethylbenzene

R.T.: 21.889 min
Delta R.T.: 0.003 min
Response: 33968965
Conc: 981.24 ppb



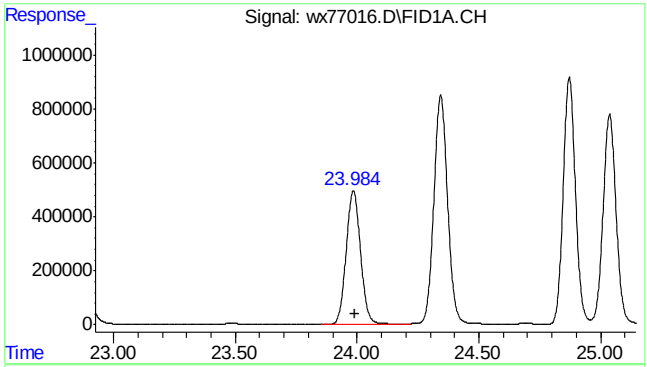
#14 m,p-xylene

R.T.: 22.040 min
Delta R.T.: 0.005 min
Response: 69371303
Conc: 1939.69 ppb



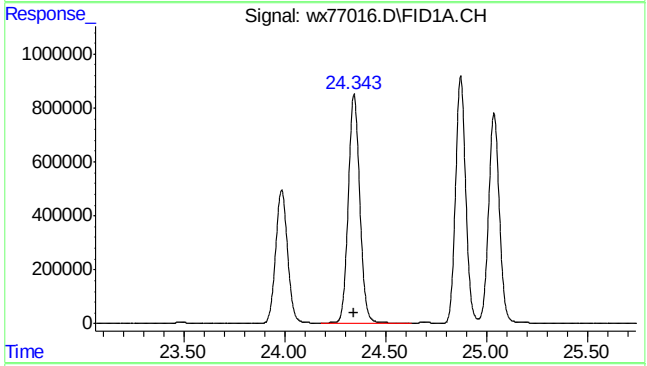
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: 0.001 min
Response: 34376585
Conc: 961.63 ppb



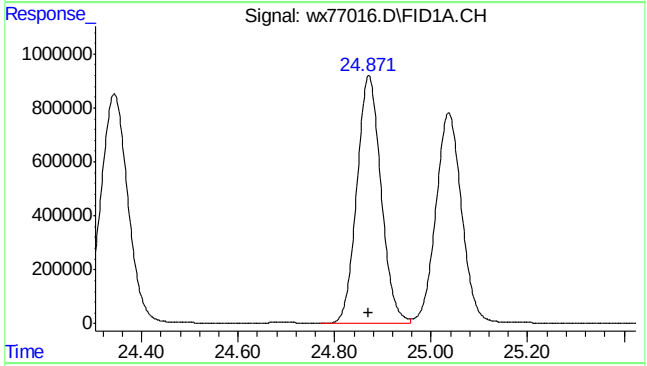
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 20430393
Conc: 545.89 ppb m



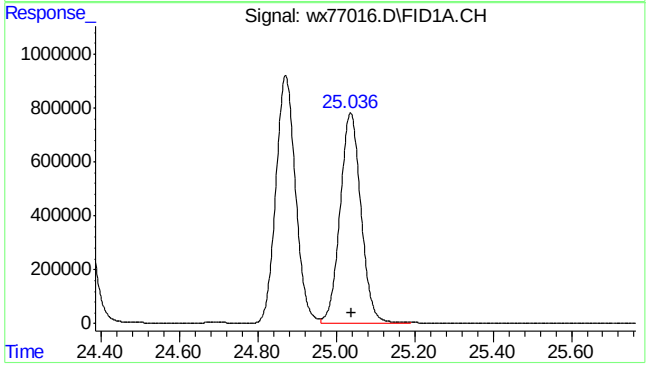
#17 1,3,5-trimethylbenzene

R.T.: 24.343 min
Delta R.T.: 0.002 min
Response: 33902826
Conc: 898.89 ppb



#18 1,2,4-trimethylbenzene

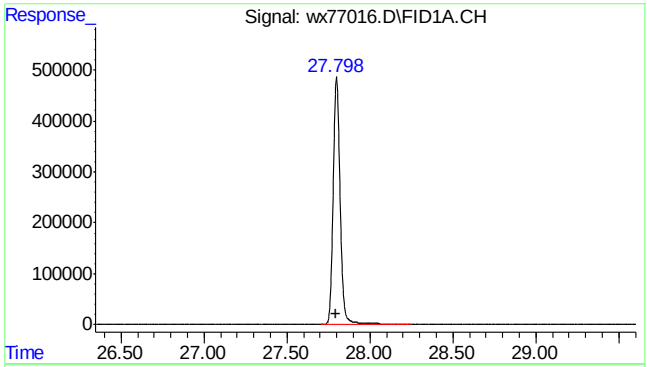
R.T.: 24.871 min
Delta R.T.: 0.002 min
Response: 32051378
Conc: 892.40 ppb



#19 Butylcyclohexane

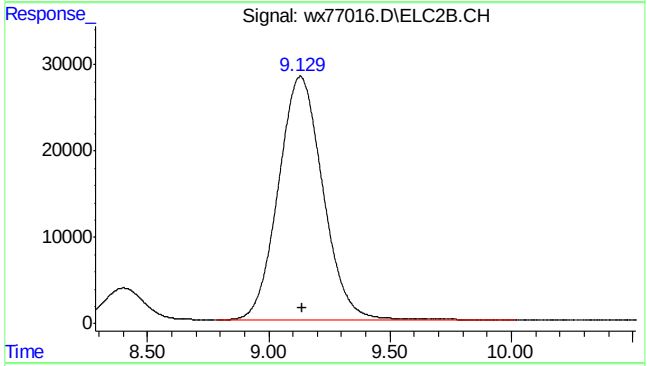
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 29073556
Conc: 734.58 ppb m

SGS ACCUTEST MC46423



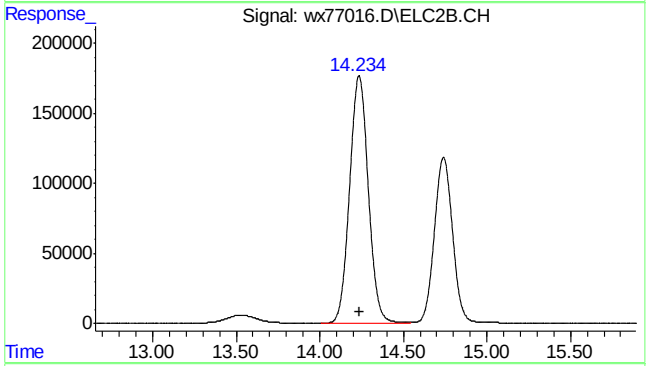
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 14041107
Conc: 796.10 ppb m



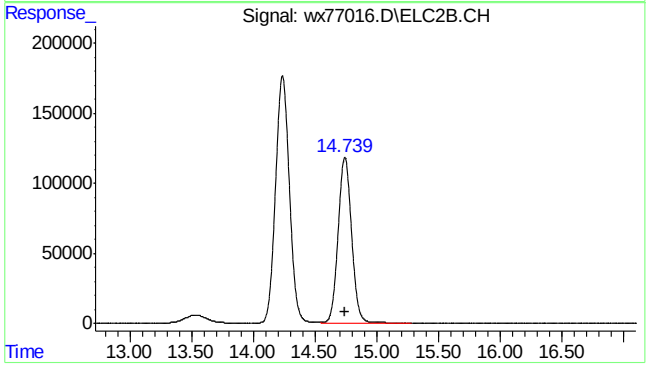
#23 mtbe #2

R.T.: 9.130 min
Delta R.T.: -0.009 min
Response: 3594332
Conc: 792.87 ppb



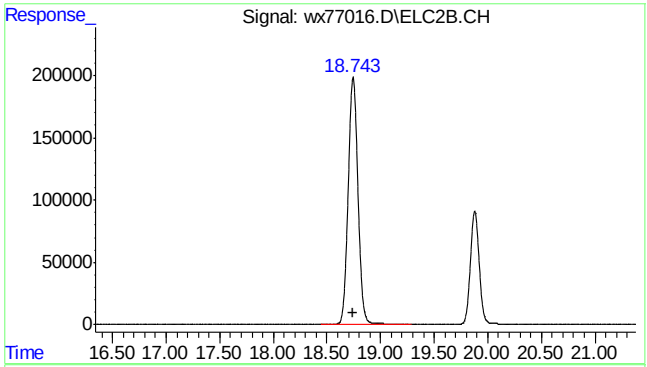
#24 benzene #2

R.T.: 14.234 min
Delta R.T.: 0.000 min
Response: 13757761
Conc: 962.51 ppb



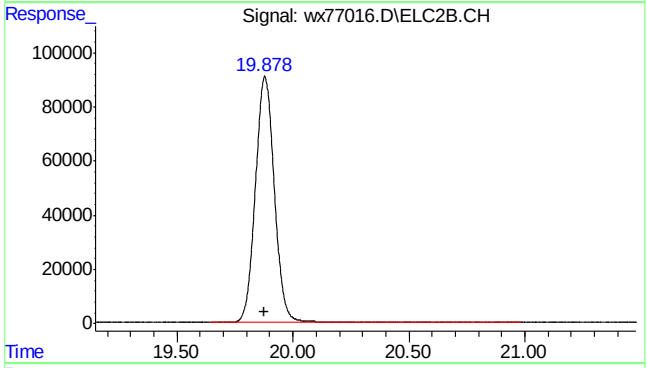
#25 fluorobenzene #2

R.T.: 14.740 min
Delta R.T.: 0.000 min
Response: 8963931
Conc: 980.79 ppb



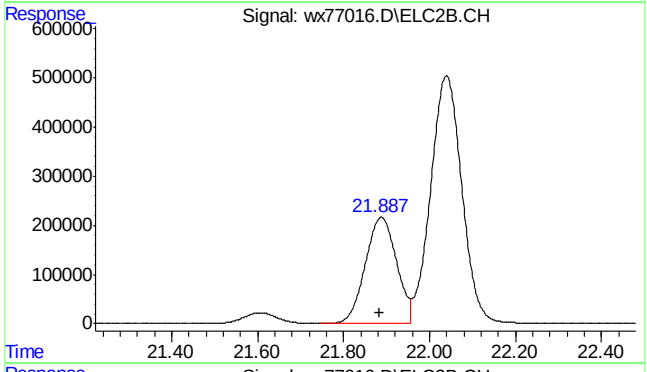
#26 toluene #2

R.T.: 18.744 min
Delta R.T.: 0.001 min
Response: 12502254
Conc: 967.05 ppb



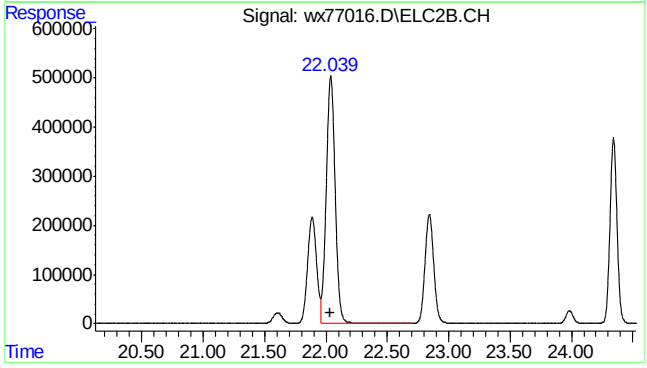
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 5182085
Conc: 937.30 ppb



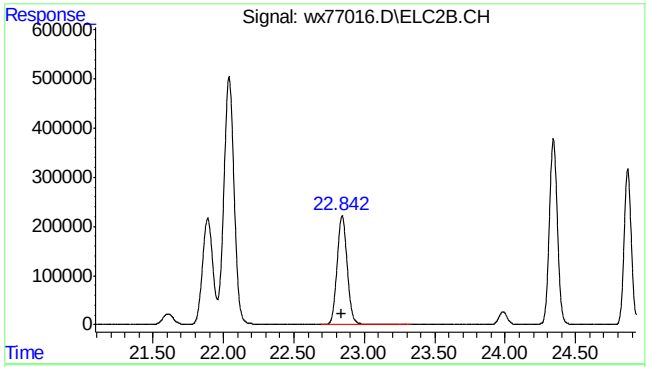
#28 ethylbenzene #2

R.T.: 21.888 min
Delta R.T.: 0.003 min
Response: 10933666
Conc: 946.32 ppb



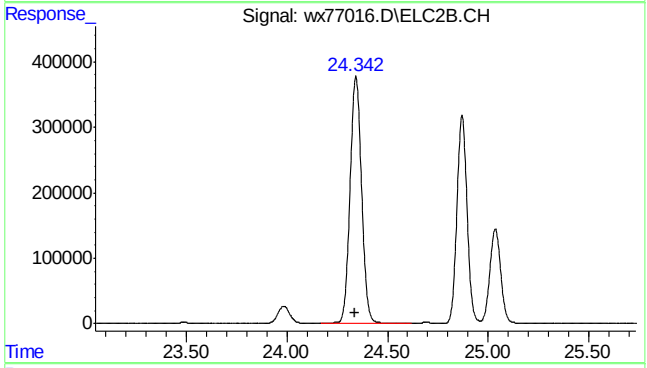
#29 m,p-xylene #2

R.T.: 22.039 min
Delta R.T.: 0.005 min
Response: 25551070
Conc: 1820.34 ppb



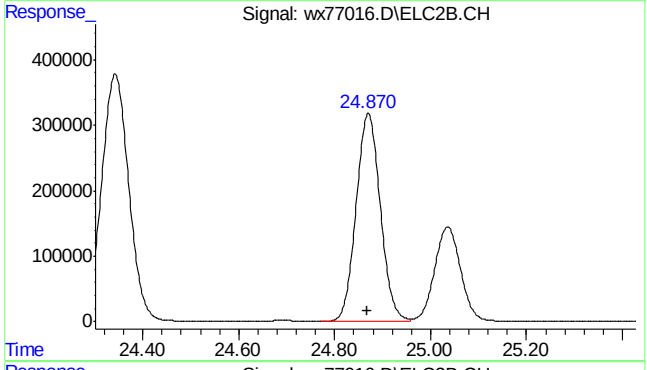
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.002 min
Response: 11062325
Conc: 944.24 ppb



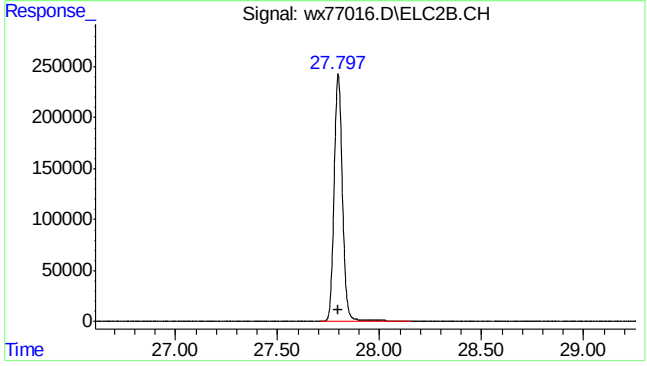
#31 1,3,5-trimethylbenzene #2

R.T.: 24.343 min
Delta R.T.: 0.003 min
Response: 14997143
Conc: 859.32 ppb



#32 1,2,4-trimethylbenzene #2

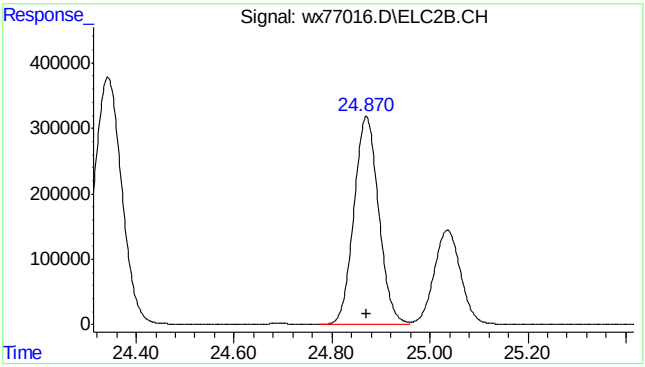
R.T.: 24.870 min
Delta R.T.: 0.002 min
Response: 11123956
Conc: 859.55 ppb



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 6832135
Conc: 740.58 ppb m

SGS ACCUTEST MC46423



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 11119984
Conc: 859.63 ppb m

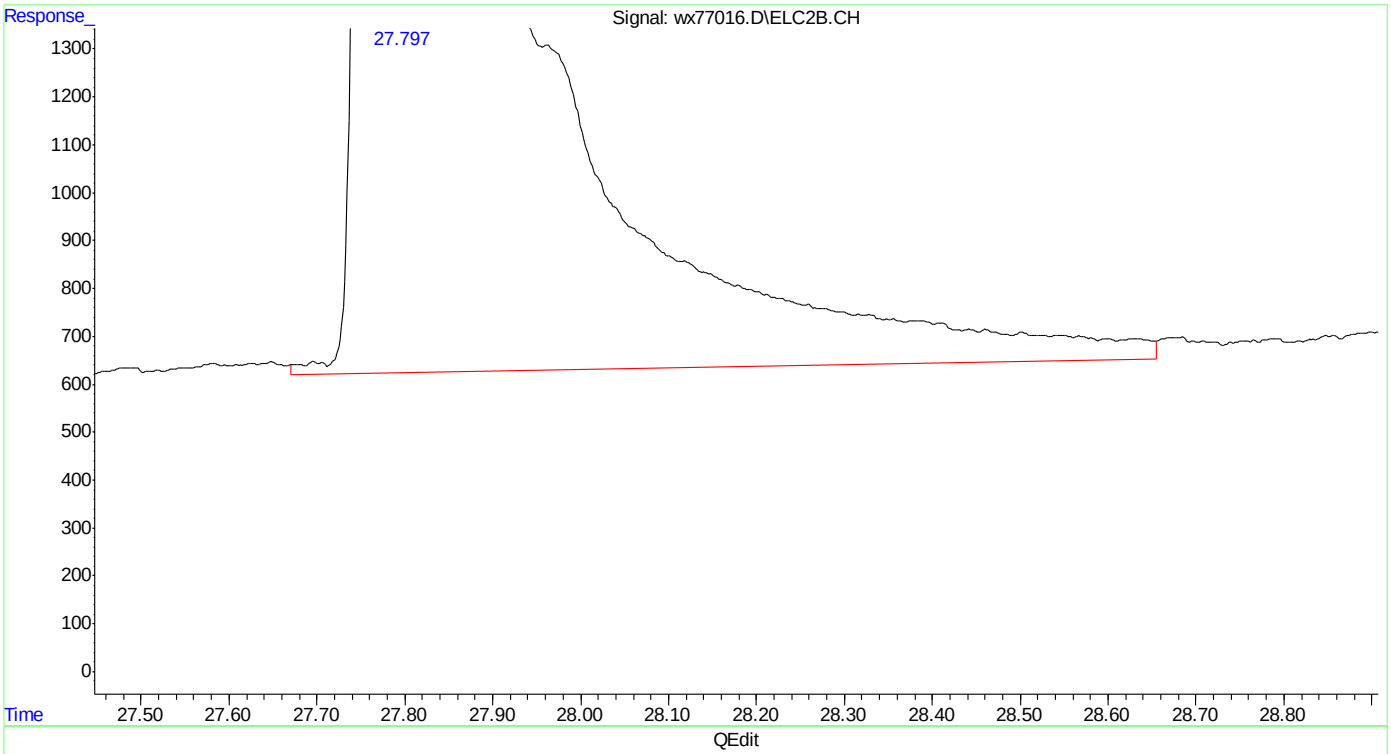
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.798min 744.210 ppb

response 6865636

(+) = Expected Retention Time

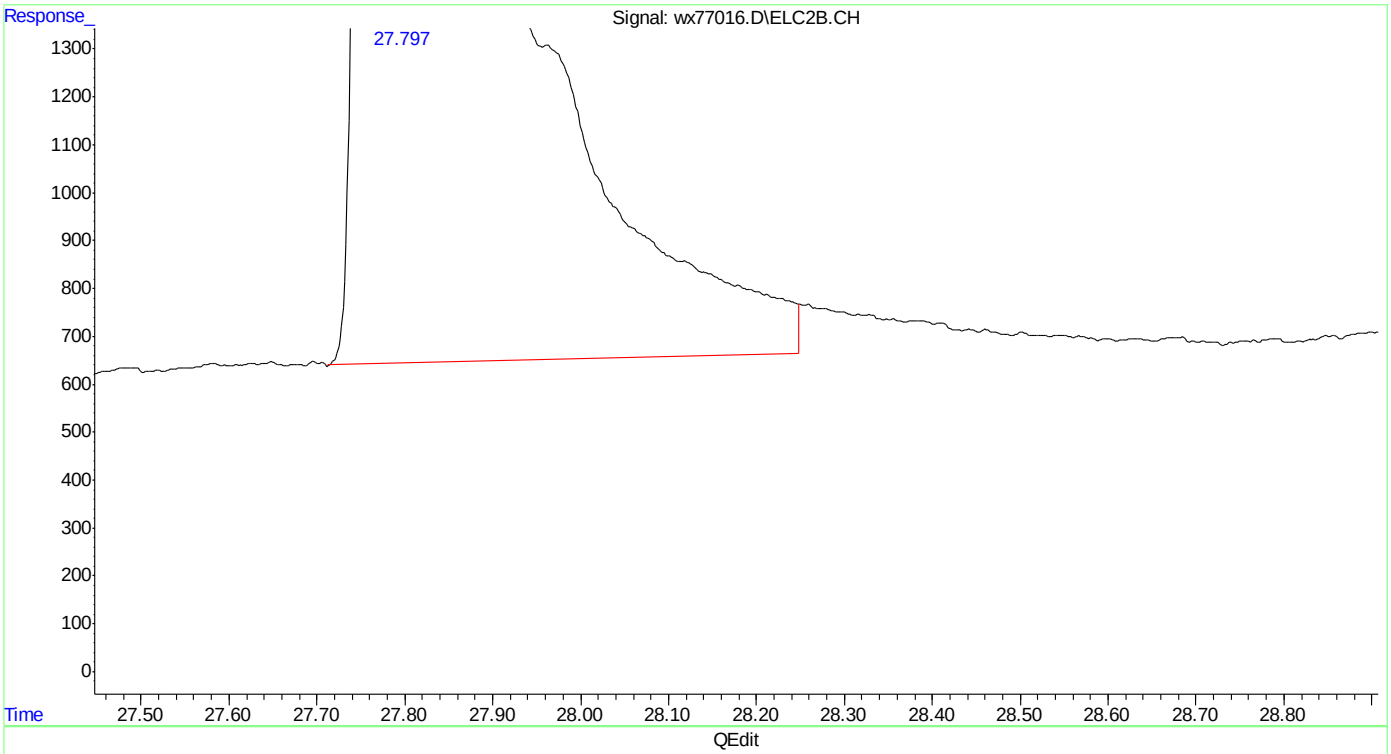
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.797min 741.418 ppb m

response 6839875

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:27:10 2016

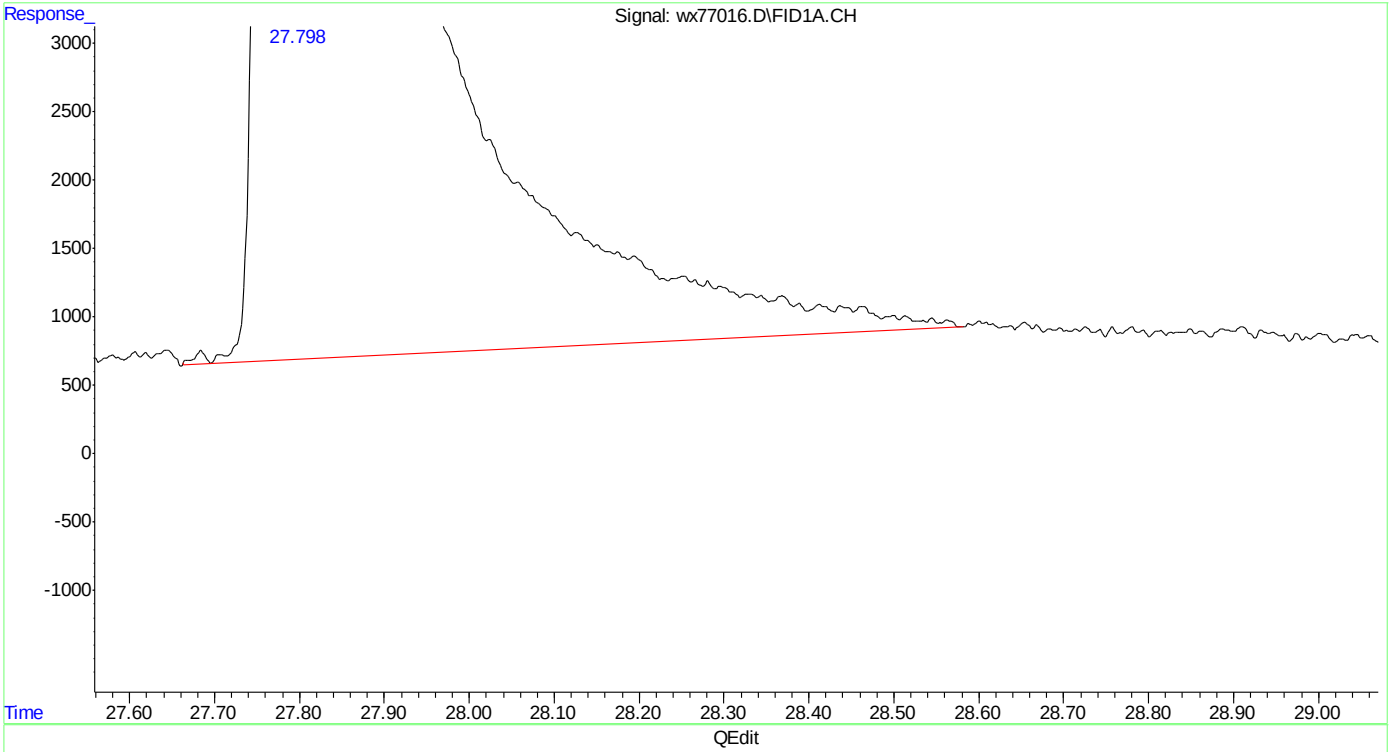
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.799min 799.301 ppb

response 14097518

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:28:29 2016

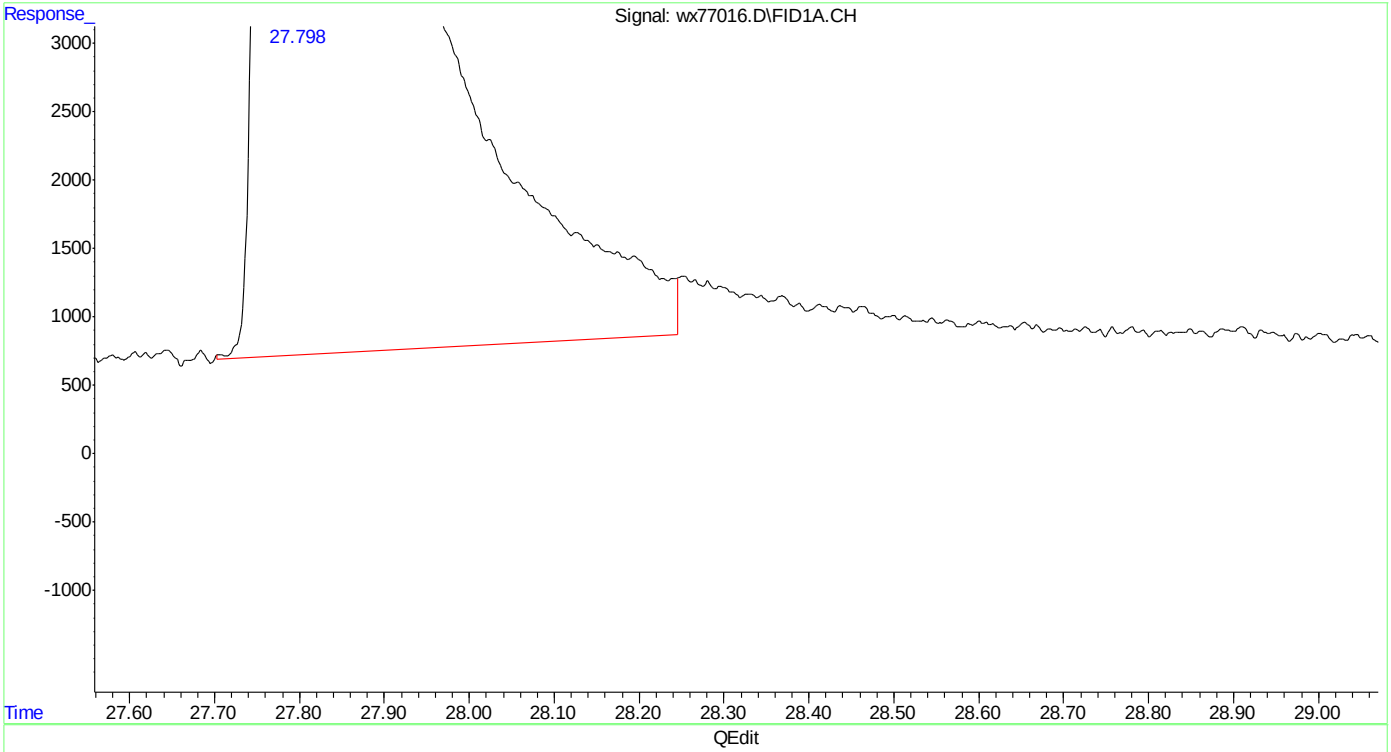
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.798min 796.103 ppb m

response 14041107

(+) = Expected Retention Time

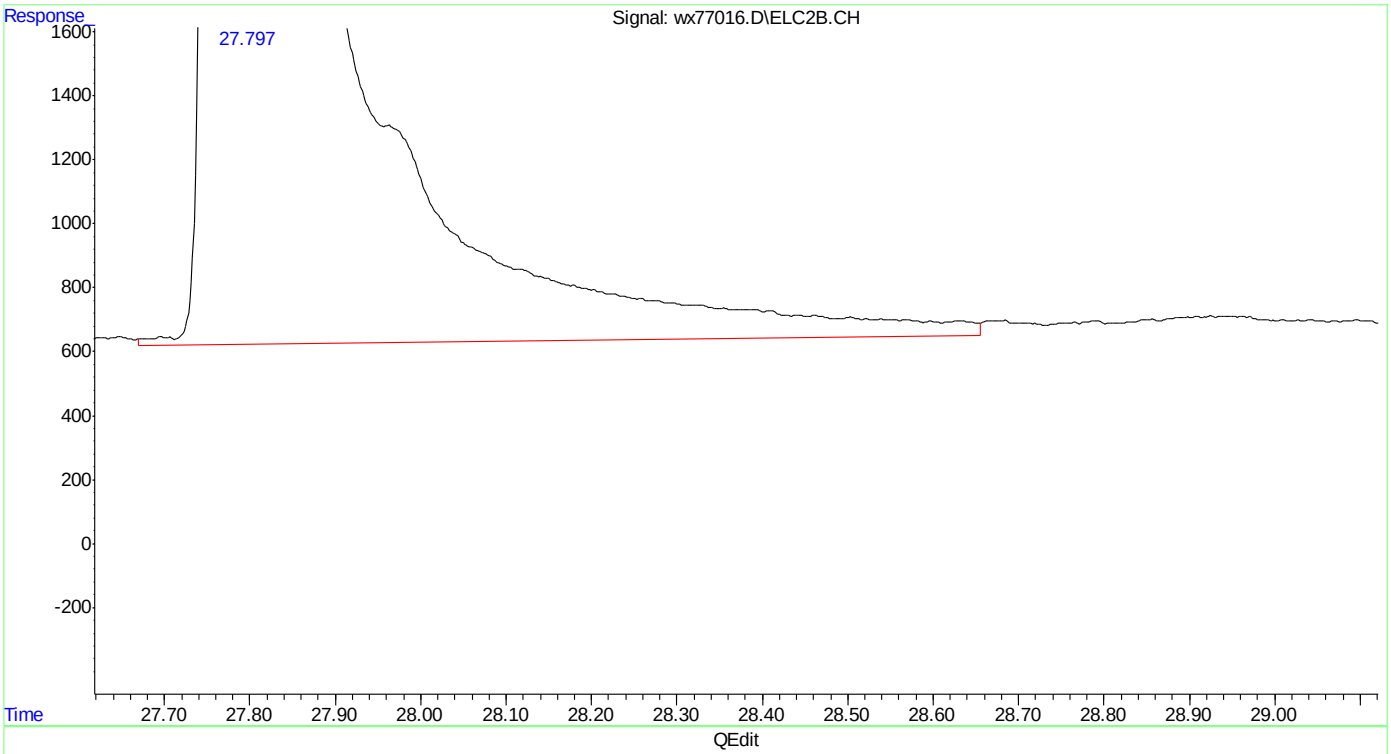
wx160602vphmaster.M Thu Jun 02 13:28:34 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   7:30 am
Operator  : tonyf
Sample    : ic3782-1000,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.798min 744.210 ppb

response 6865636

(+) = Expected Retention Time

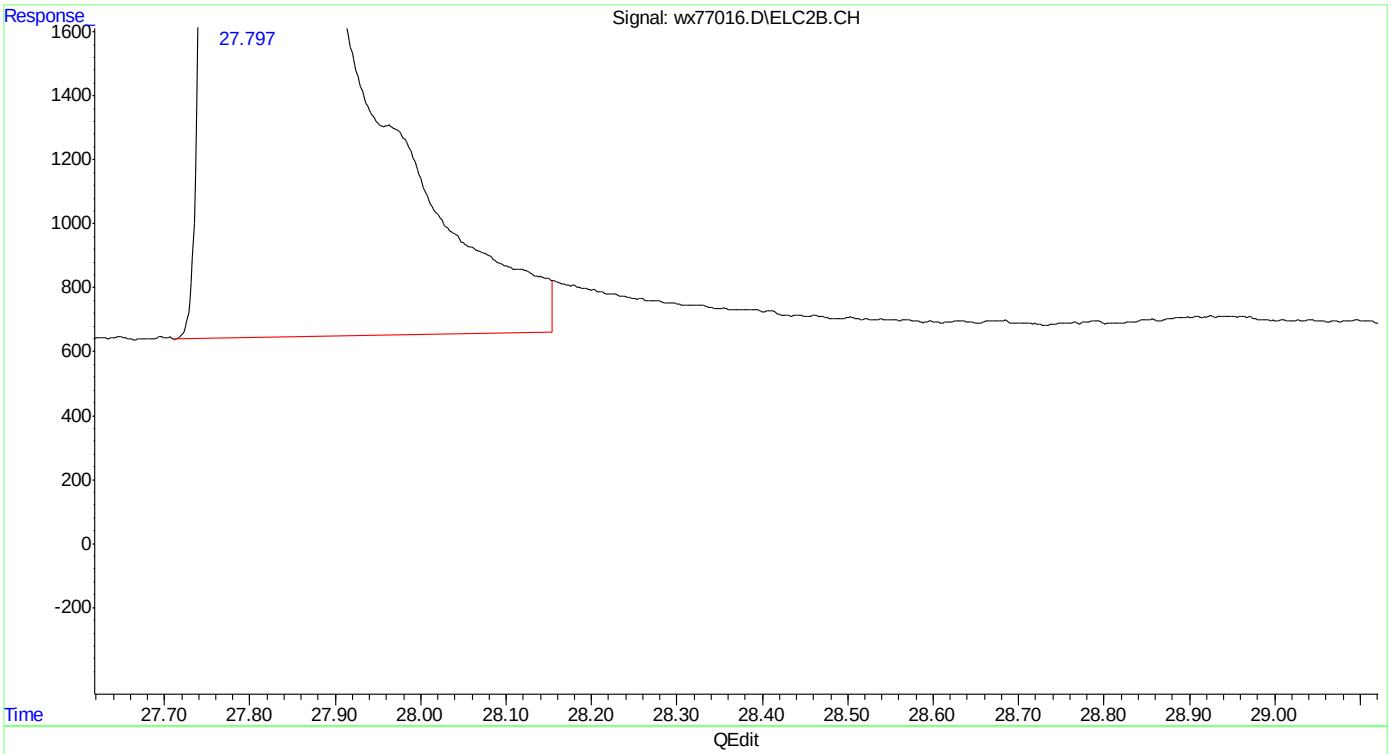
wx160602vphmaster.M Thu Jun 02 13:28:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77016.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 7:30 am
Operator : tonyf
Sample : ic3782-1000,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:58 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 740.579 ppb m
response 6832135

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:28:58 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	14348971	509.950 ppb	
Spiked Amount 50.000		Recovery	= 1019.90%	
9) s 2,3,4-trifluorotoluene	19.879	11329026	492.205 ppb	
Spiked Amount 50.000		Recovery	= 984.41%	
25) s fluorobenzene #2	14.741	4557876	498.699 ppb	
Spiked Amount 50.000		Recovery	= 997.40%	
27) s 2,3,4-trifluorotoluen...	19.879	2636030	476.788 ppb	
Spiked Amount 50.000		Recovery	= 953.58%	
Target Compounds				
1) h rt5.5-7	6.100	9607441	433.711 ppb	
2) h rt7/10	8.370	13595417	468.193 ppb	
3) mtbe	9.134	5784912	444.605 ppb	
4) h rt10/13	13.510	6302927	261.350 ppb	
5) benzene	14.236	17852198	499.105 ppb	
8) toluene	18.744	17433527	501.492 ppb	m
11) h rt20/25	21.600	15089646	405.570 ppb	
13) ethylbenzene	21.887	17076083	493.266 ppb	
14) m,p-xylene	22.037	35141909	982.603 ppb	
15) o-xylene	22.842	17486808	489.166 ppb	
16) h Decane	23.990	14183677	378.981 ppb	
17) t 1,3,5-trimethylbenzene	24.342	18002951	477.323 ppb	
18) 1,2,4-trimethylbenzene	24.870	17030260	474.171 ppb	
19) h Butylcyclohexane	25.040	15882418	401.290 ppb	
20) naphthalene	27.798	8926700	506.126 ppb	m
23) mtbe #2	9.135	1969301	434.405 ppb	
24) benzene #2	14.235	7018741	491.041 ppb	
26) toluene #2	18.743	6391781	494.407 ppb	
28) ethylbenzene #2	21.886	5604870	485.106 ppb	
29) m,p-xylene #2	22.036	13326763	949.443 ppb	
30) o-xylene #2	22.841	5729768	489.075 ppb	
31) t 1,3,5-trimethylbenzen...	24.341	8120873	465.320 ppb	
32) 1,2,4-trimethylbenzen...	24.869	6045428	467.129 ppb	
33) naphthalene #2	27.796	4379605	474.734 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	6045219	467.326 ppb	

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

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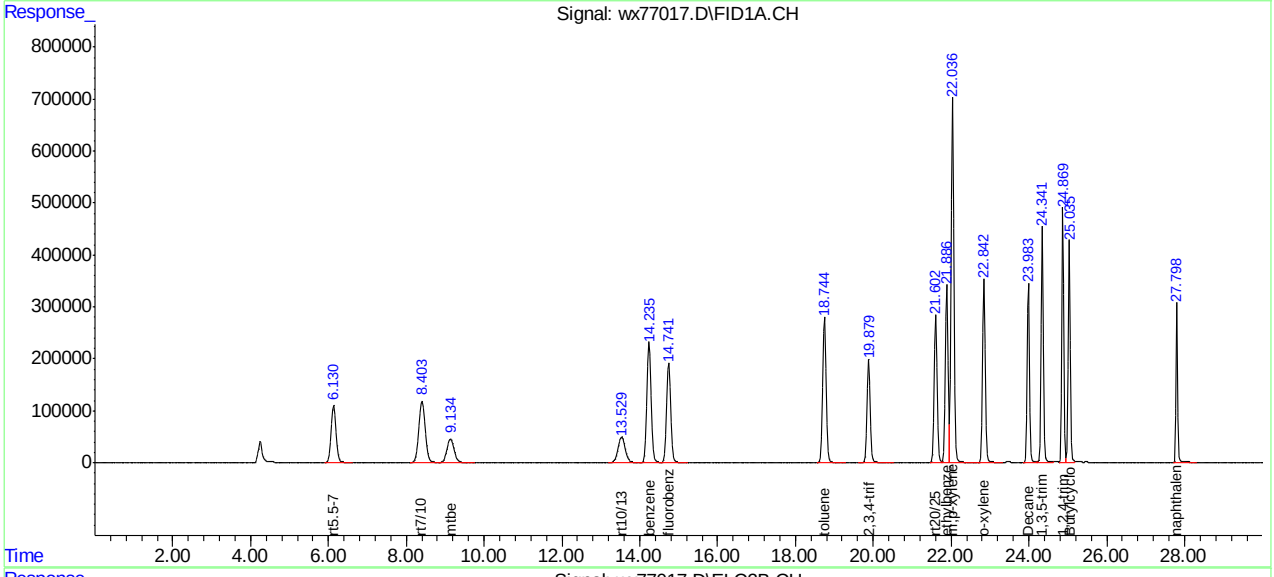
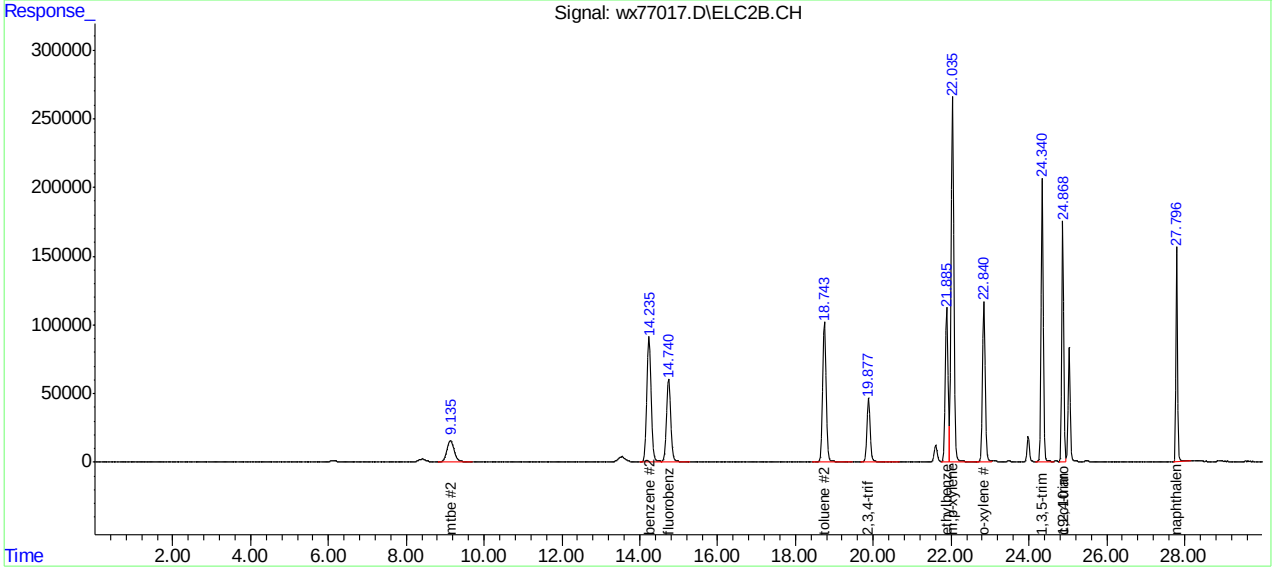
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:25:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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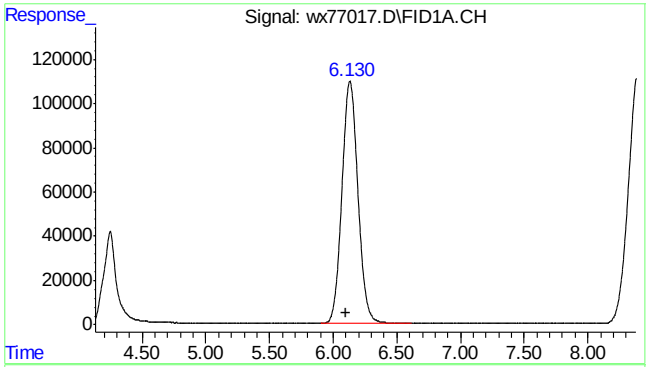
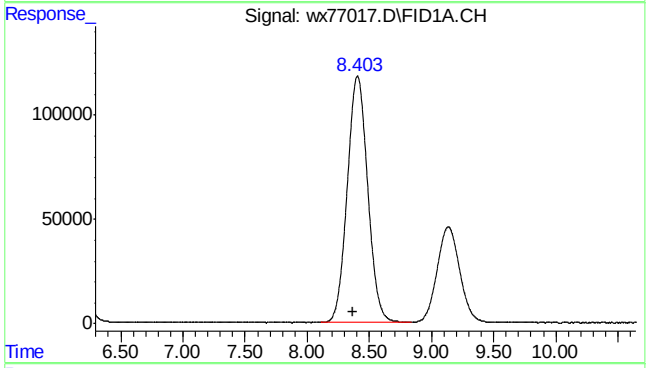


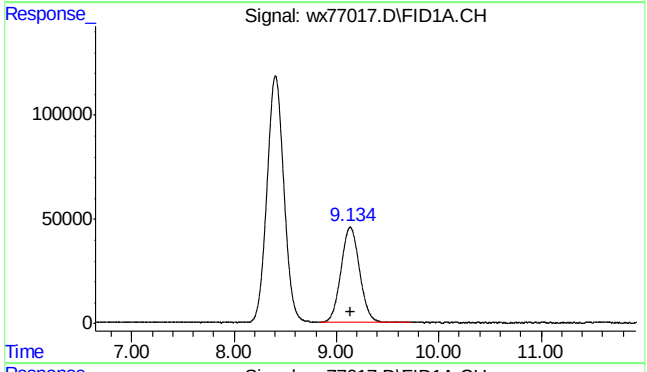
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 9607441
Conc: 433.71 ppb m



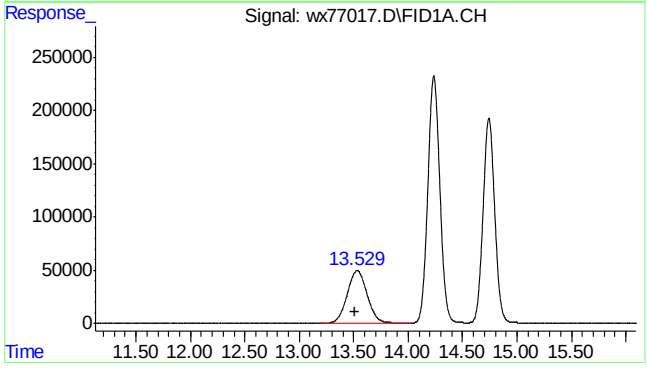
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 13595417
Conc: 468.19 ppb m



#3 mtbe

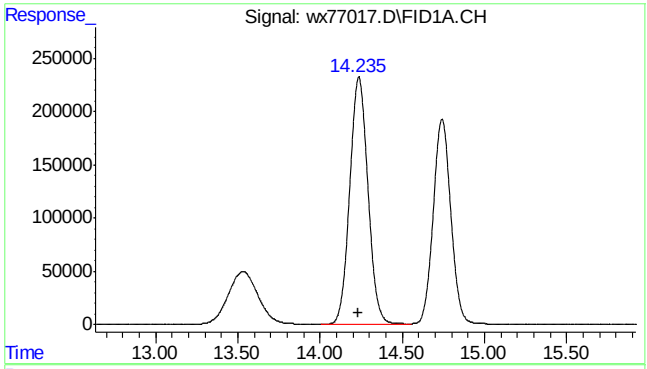
R.T.: 9.134 min
Delta R.T.: -0.002 min
Response: 5784912
Conc: 444.60 ppb



#4 rt10/13

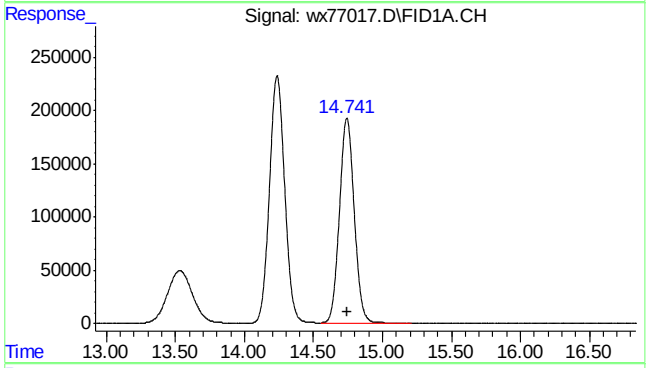
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 6302927
Conc: 261.35 ppb m

SGS ACCUTEST MC46423



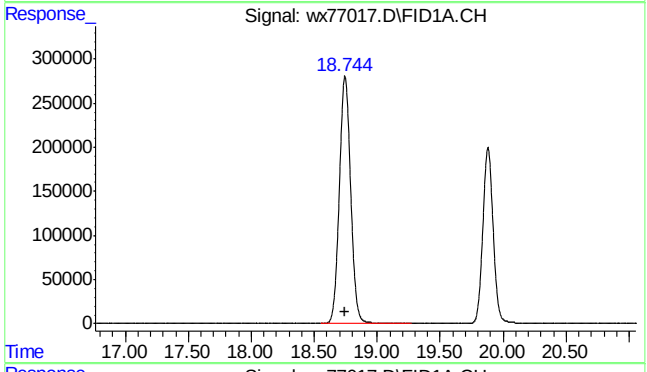
#5 benzene

R.T.: 14.236 min
Delta R.T.: 0.000 min
Response: 17852198
Conc: 499.11 ppb



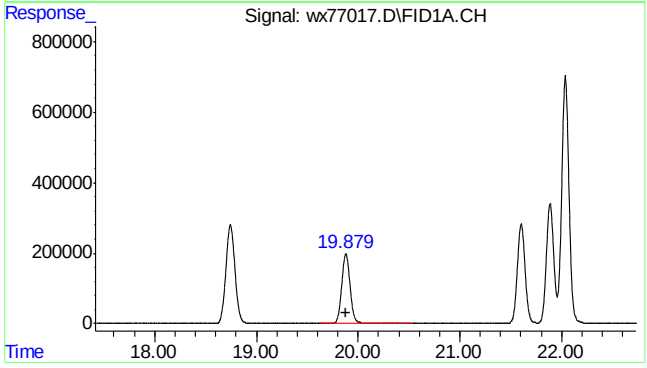
#6 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.000 min
Response: 14348971
Conc: 509.95 ppb



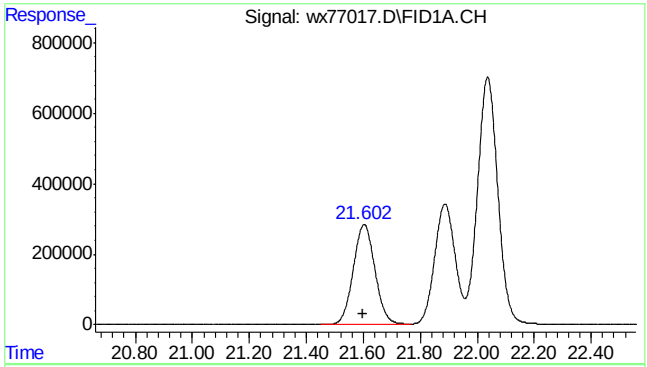
#8 toluene

R.T.: 18.744 min
Delta R.T.: 0.000 min
Response: 17433527
Conc: 501.49 ppb m



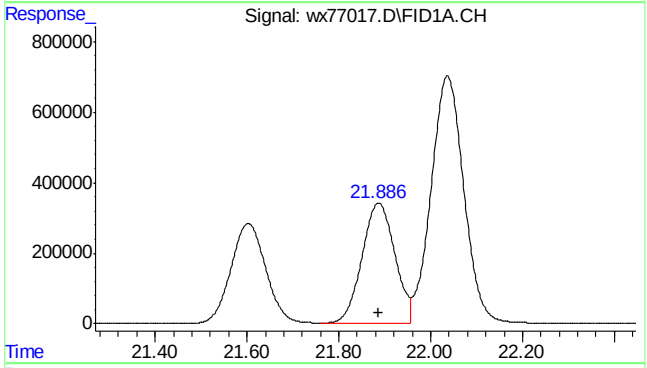
#9 2,3,4-trifluorotoluene

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 11329026
Conc: 492.21 ppb



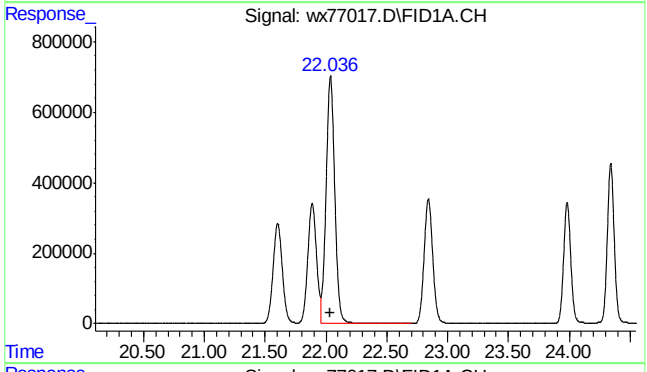
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 15089646
Conc: 405.57 ppb m



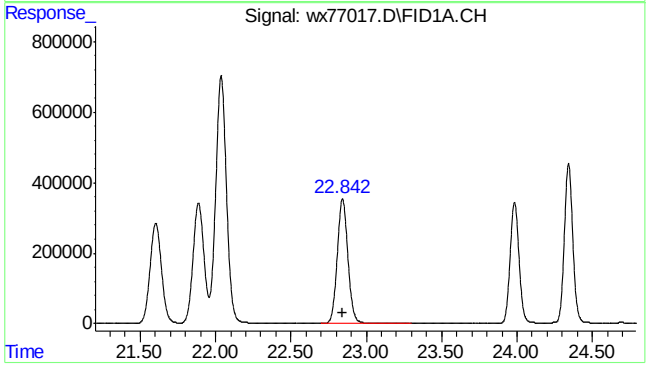
#13 ethylbenzene

R.T.: 21.887 min
Delta R.T.: 0.001 min
Response: 17076083
Conc: 493.27 ppb



#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 35141909
Conc: 982.60 ppb



#15 o-xylene

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 17486808
Conc: 489.17 ppb

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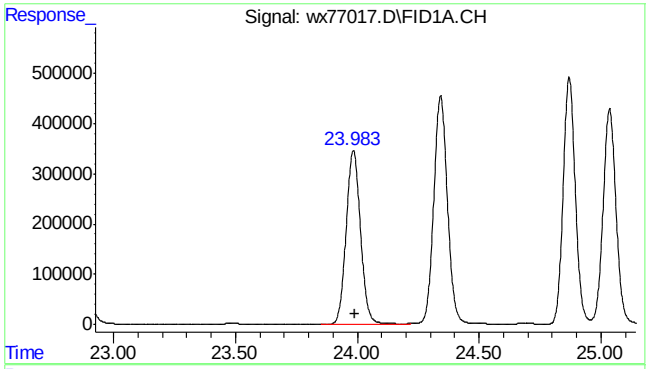
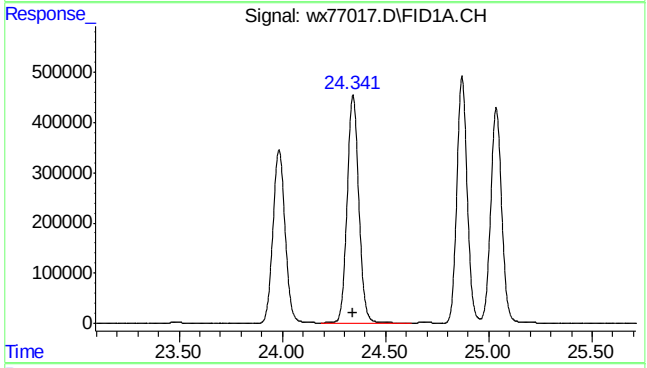


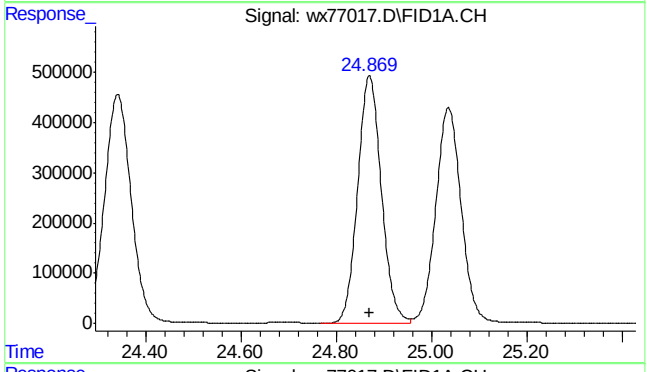
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 14183677
Conc: 378.98 ppb m



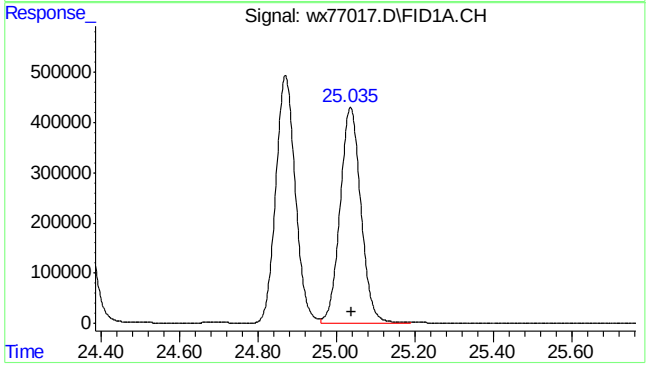
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 18002951
Conc: 477.32 ppb



#18 1,2,4-trimethylbenzene

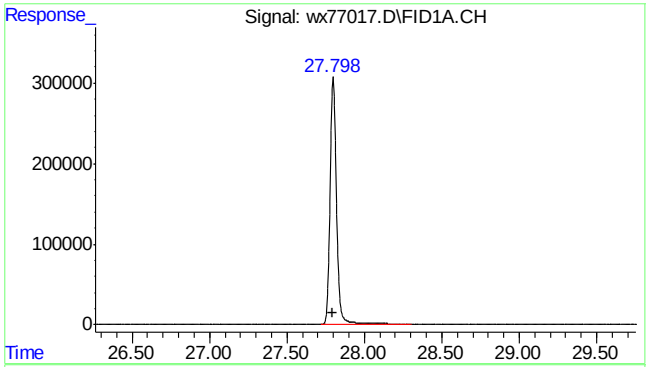
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 17030260
Conc: 474.17 ppb



#19 Butylcyclohexane

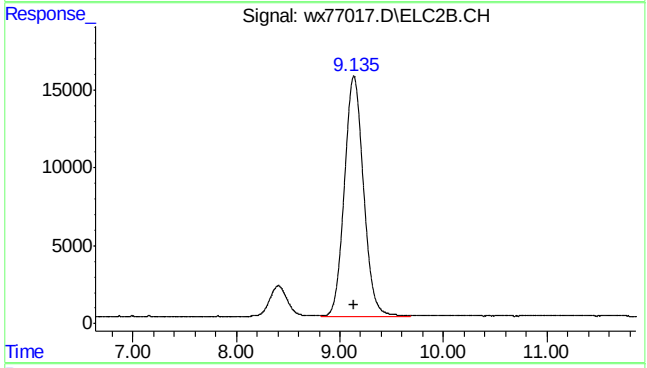
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 15882418
Conc: 401.29 ppb m

SGS ACCUTEST MC46423



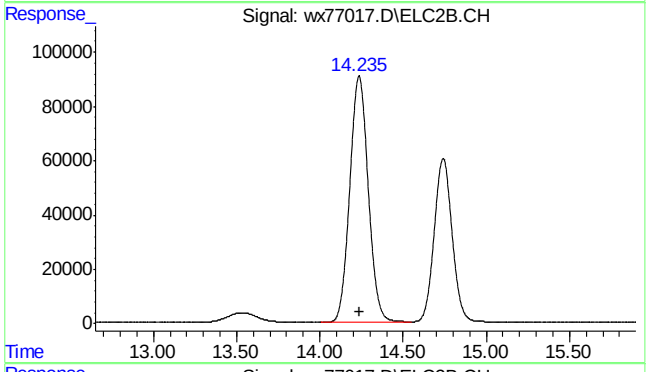
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 8926700
Conc: 506.13 ppb m



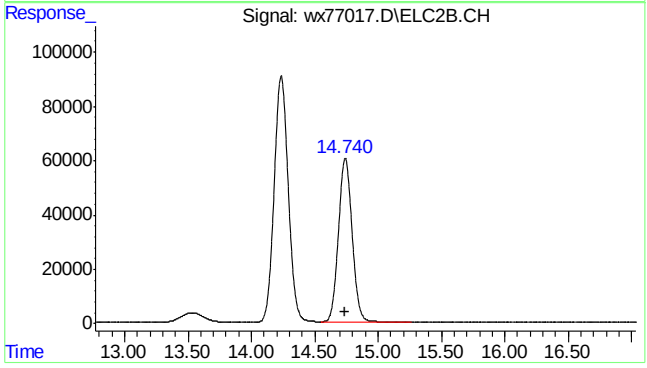
#23 mtbe #2

R.T.: 9.135 min
Delta R.T.: -0.004 min
Response: 1969301
Conc: 434.41 ppb



#24 benzene #2

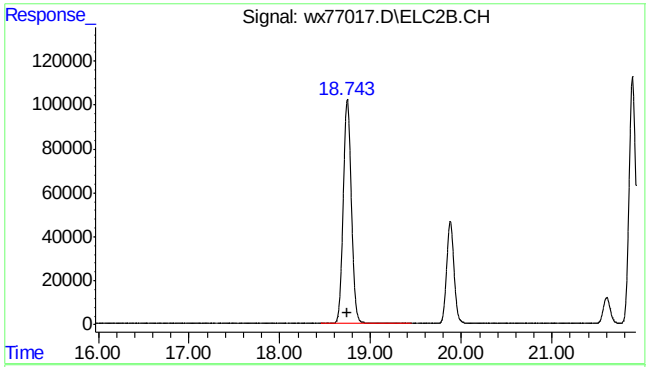
R.T.: 14.235 min
Delta R.T.: 0.000 min
Response: 7018741
Conc: 491.04 ppb



#25 fluorobenzene #2

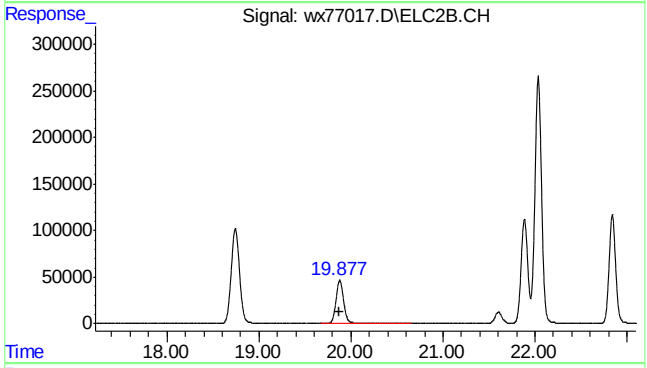
R.T.: 14.741 min
Delta R.T.: 0.000 min
Response: 4557876
Conc: 498.70 ppb

SGS ACCUTEST MC46423



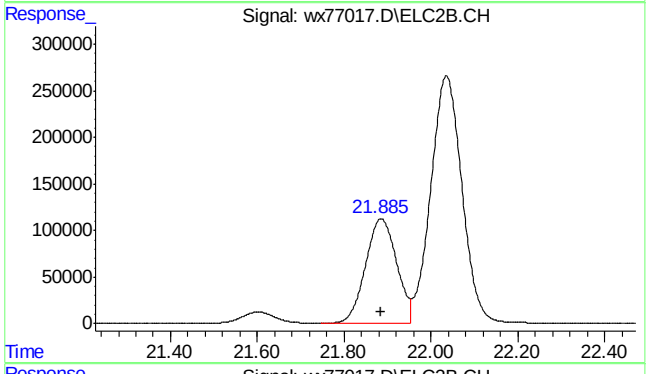
#26 toluene #2

R.T.: 18.743 min
Delta R.T.: 0.000 min
Response: 6391781
Conc: 494.41 ppb



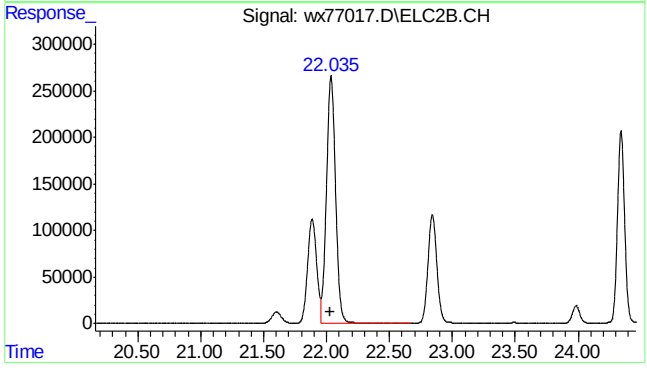
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: 0.000 min
Response: 2636030
Conc: 476.79 ppb



#28 ethylbenzene #2

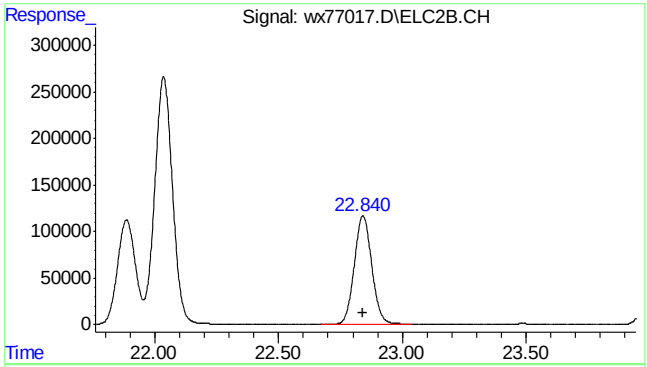
R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 5604870
Conc: 485.11 ppb



#29 m,p-xylene #2

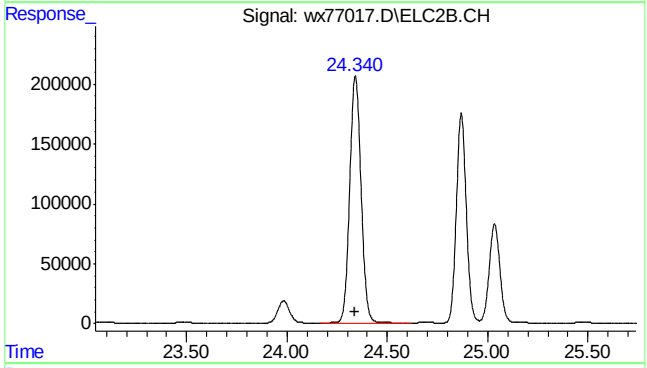
R.T.: 22.036 min
Delta R.T.: 0.002 min
Response: 13326763
Conc: 949.44 ppb

SGS ACCUTEST MC46423



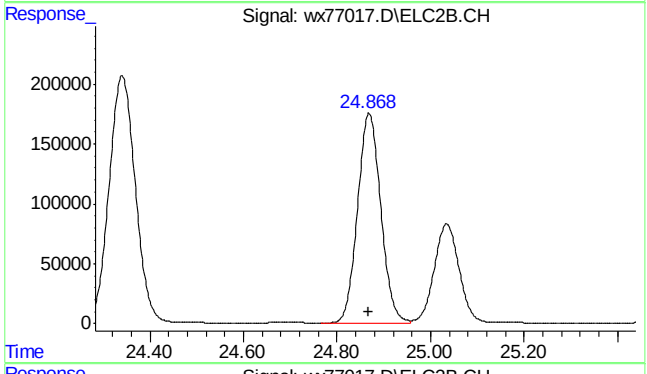
#30 o-xylene #2

R.T.: 22.841 min
Delta R.T.: 0.000 min
Response: 5729768
Conc: 489.07 ppb



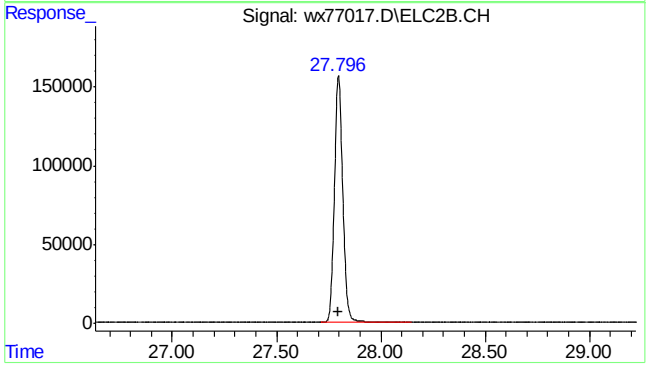
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.001 min
Response: 8120873
Conc: 465.32 ppb



#32 1,2,4-trimethylbenzene #2

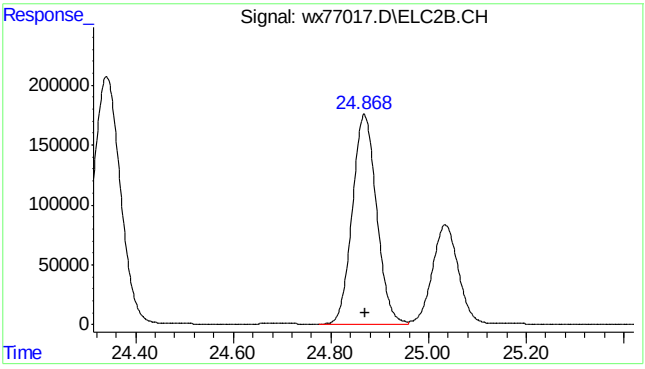
R.T.: 24.869 min
Delta R.T.: 0.000 min
Response: 6045428
Conc: 467.13 ppb



#33 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 4379605
Conc: 474.73 ppb m

SGS ACCUTEST MC46423



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:   6045219
      Conc: 467.33 ppb m
```

7.5.2

7

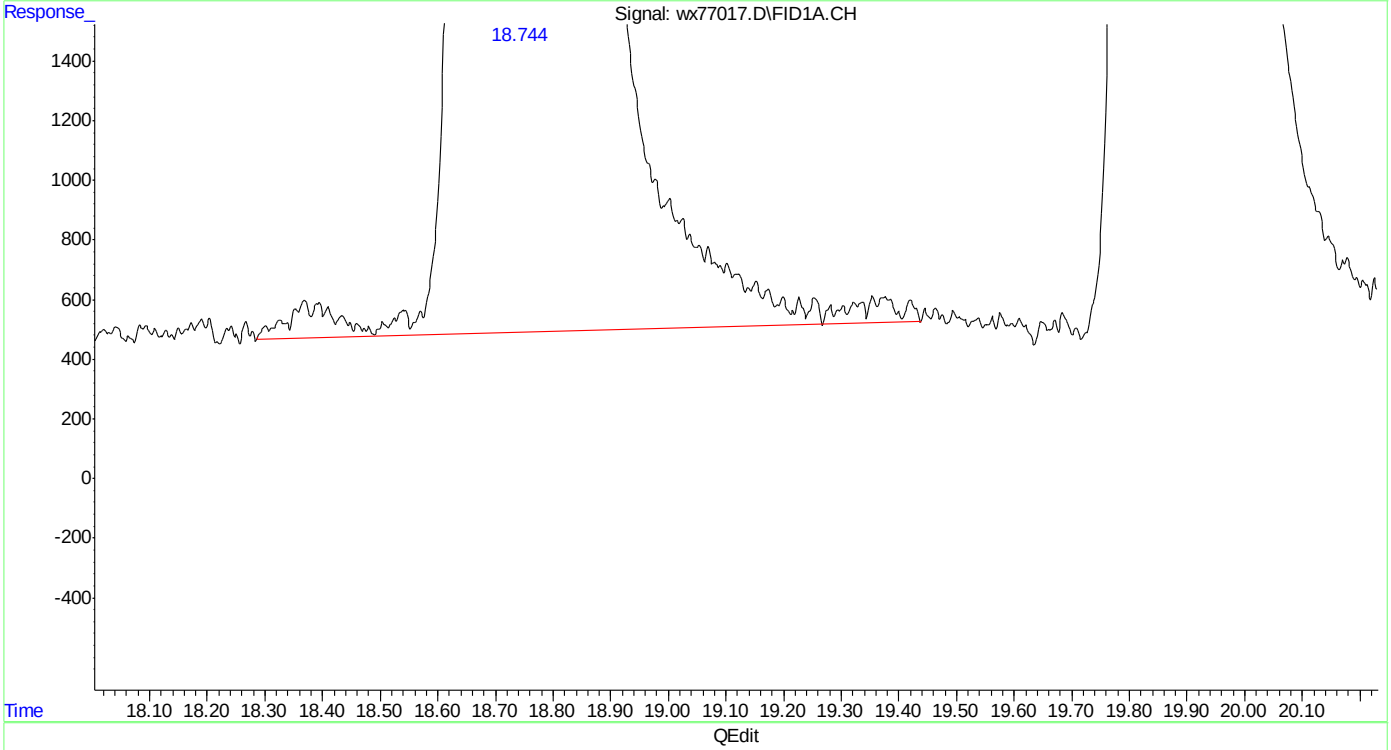
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.744min 501.610 ppb
response 17437612

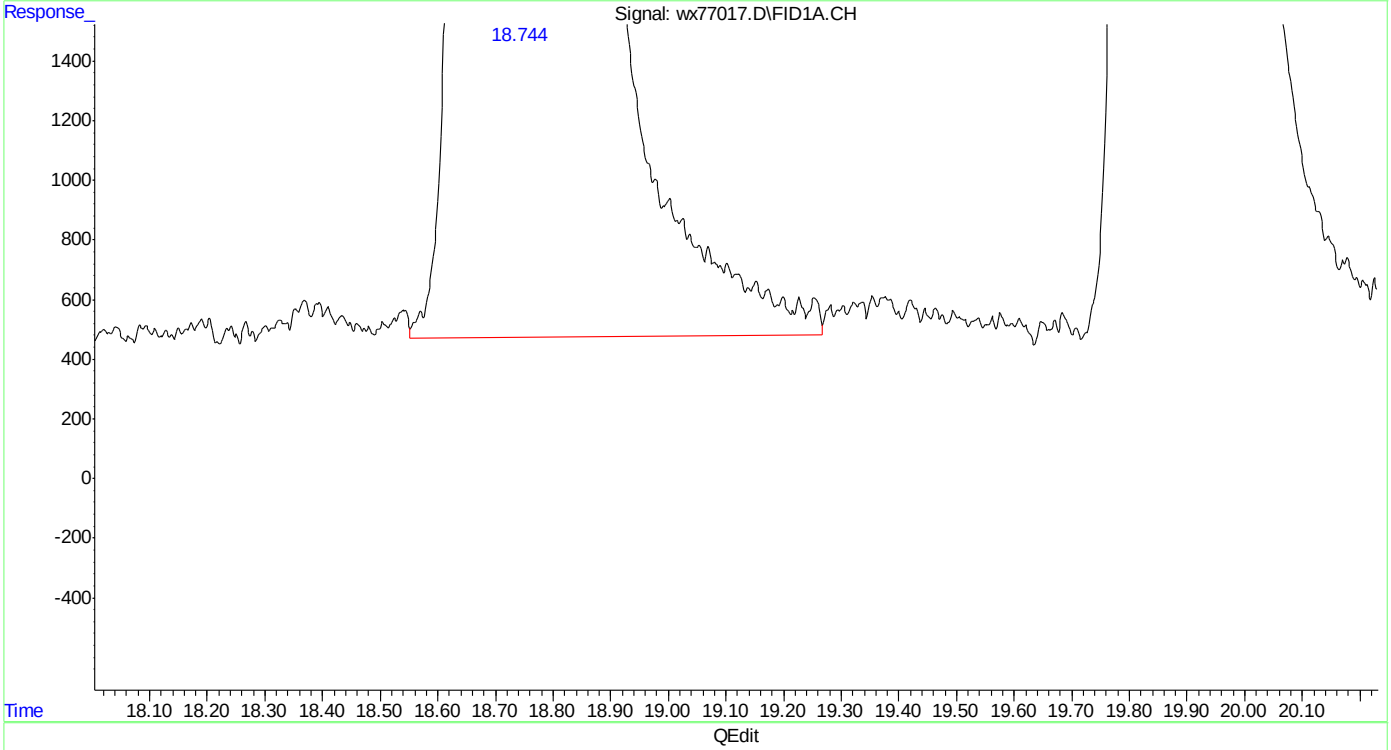
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.744min 501.492 ppb m
response 17433527

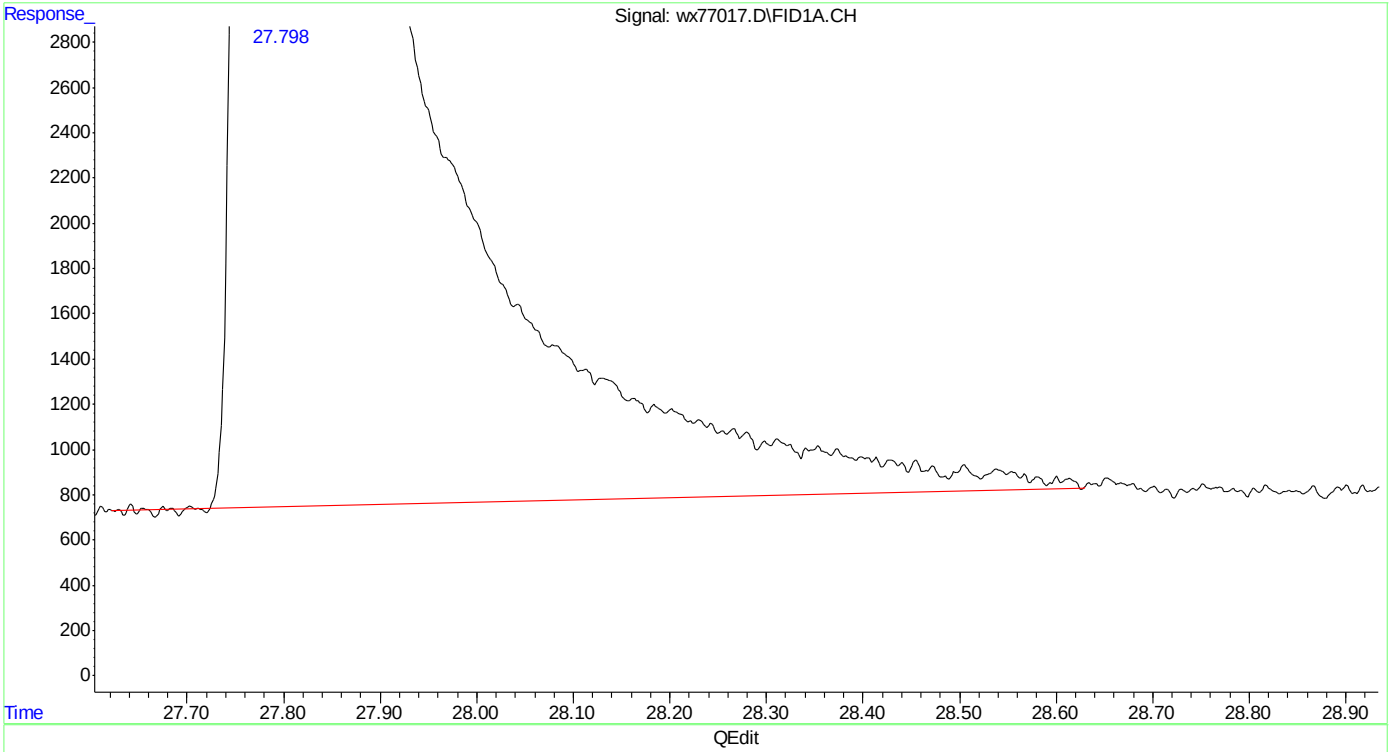
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:24:27 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:07 am
Operator  : tonyf
Sample    : ic3782-500,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.799min 507.284 ppb

response 8947124

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:24:44 2016 Page: 1

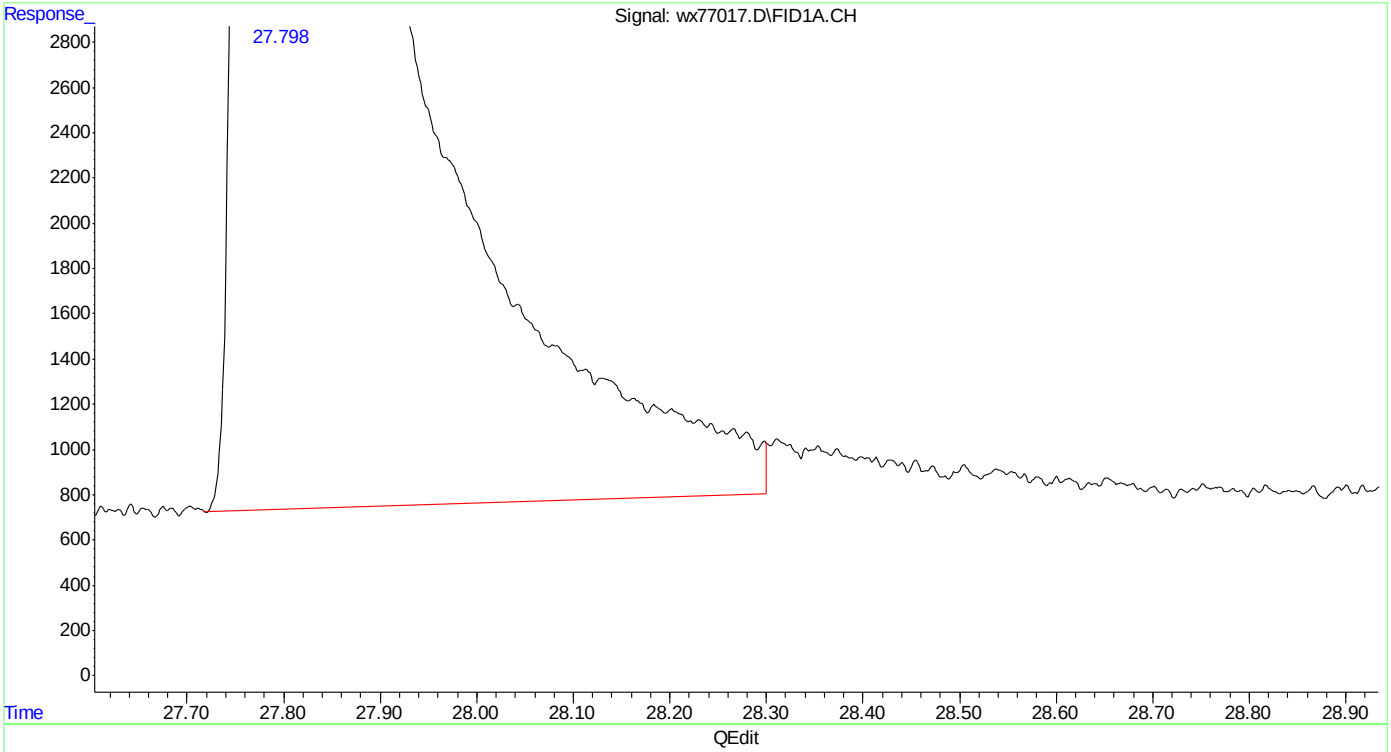
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 506.126 ppb m
response 8926700

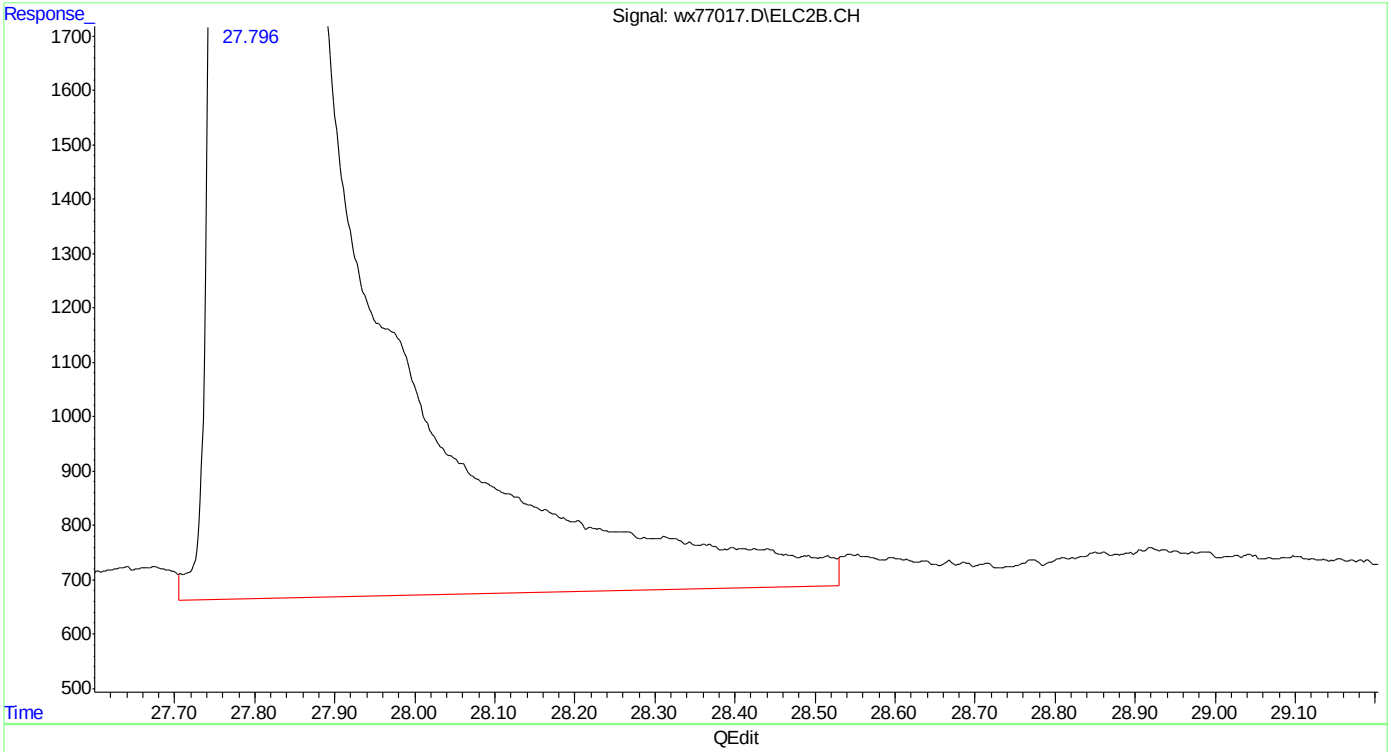
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:24:50 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:07 am
Operator  : tonyf
Sample    : ic3782-500,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.797min 478.864 ppb

response 4417715

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:25:11 2016 Page: 1

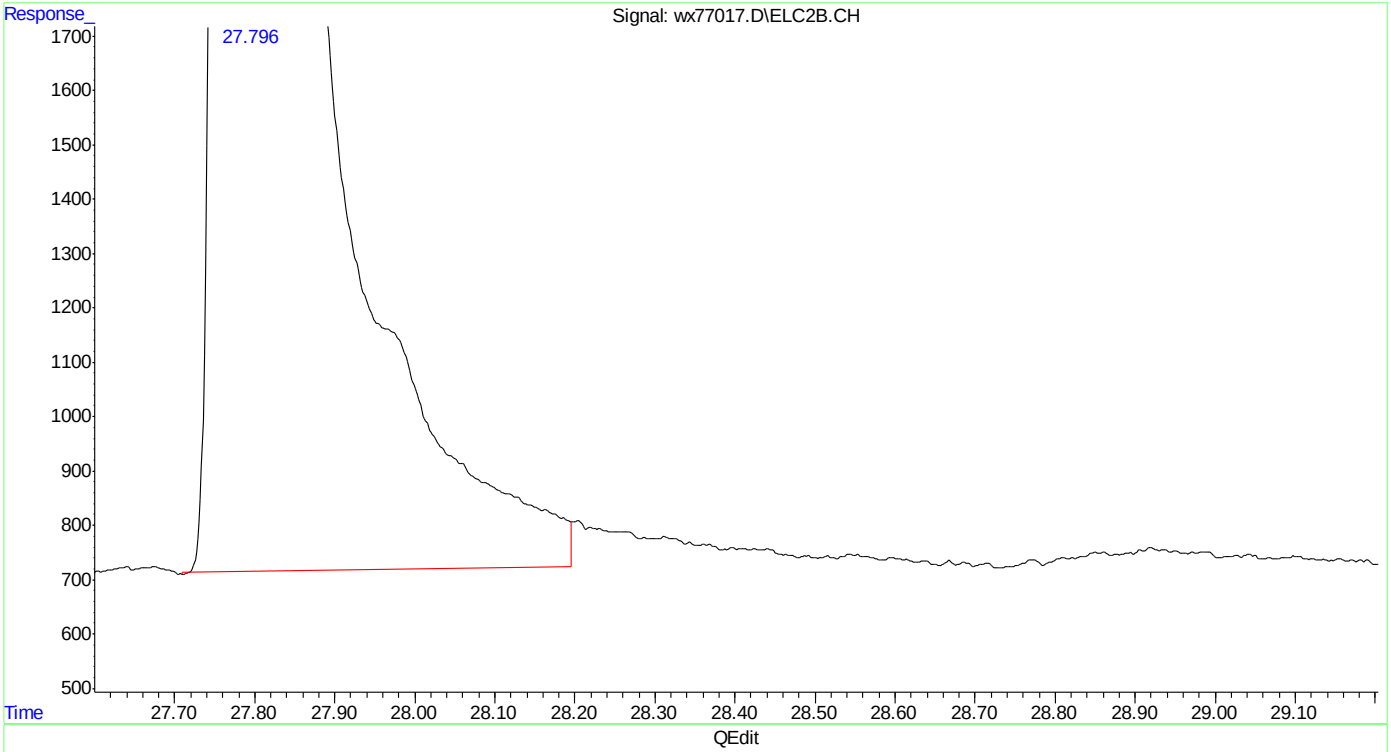
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.796min 475.514 ppb m
response 4386803

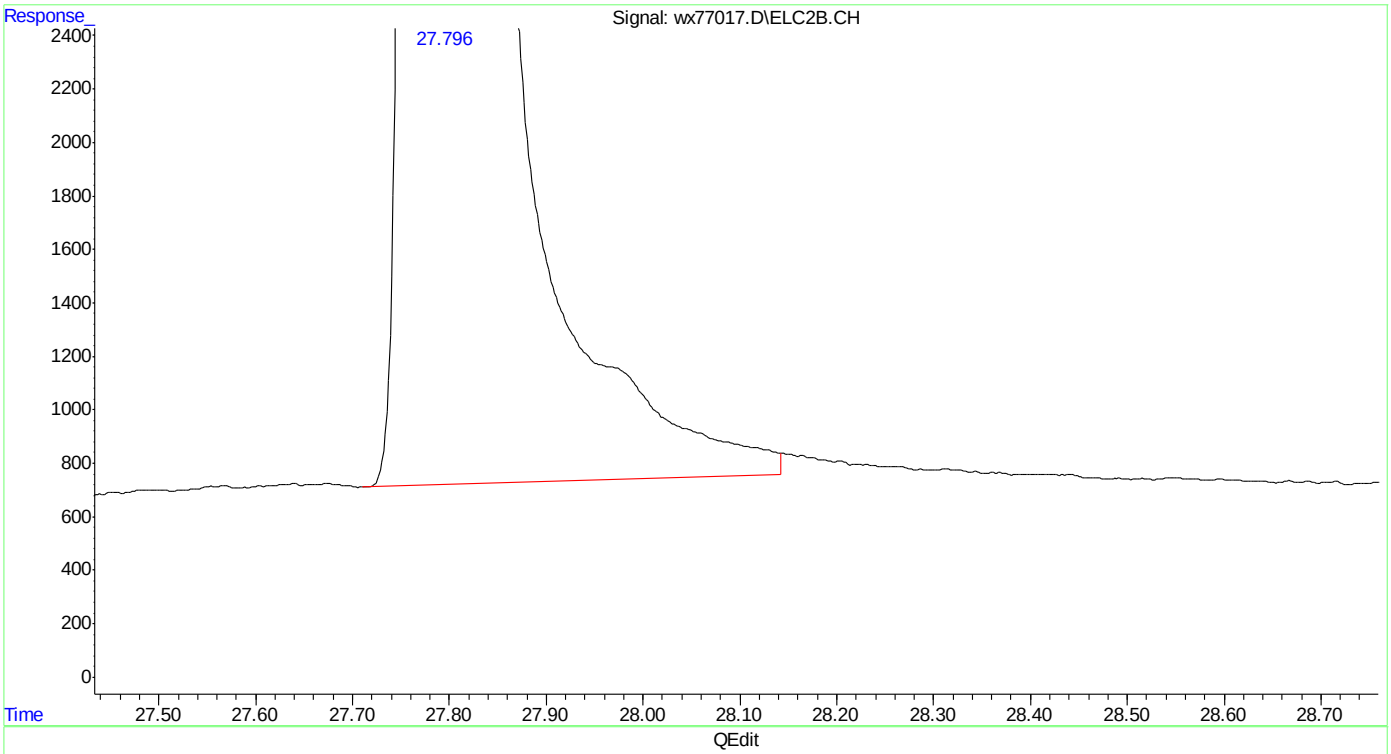
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77017.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:07 am
Operator : tonyf
Sample : ic3782-500,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:44 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:23:35 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.796min 474.734 ppb m
response 4379605

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:25:47 2016 Page: 1

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.741	6984502	247.929 ppb	
Spiked Amount 50.000		Recovery	= 495.86%	
9) s 2,3,4-trifluorotoluene	19.879	5498726	237.145 ppb	
Spiked Amount 50.000		Recovery	= 474.29%	
25) s fluorobenzene #2	14.740	2228350	242.813 ppb	
Spiked Amount 50.000		Recovery	= 485.63%	
27) s 2,3,4-trifluorotoluen...	19.878	1278389	228.369 ppb	
Spiked Amount 50.000		Recovery	= 456.74%	
Target Compounds				
1) h rt5.5-7	6.100	5076127	226.012 ppb	
2) h rt7/10	8.370	6805813	231.959 ppb	
3) mtbe	9.136	2996168	227.284 ppb	
4) h rt10/13	13.510	3812261	148.947 ppb	
5) benzene	14.235	8687516	241.735 ppb	
8) toluene	18.743	8472374	242.699 ppb	m
11) h rt20/25	21.600	7408932	192.601 ppb	
13) ethylbenzene	21.886	8301433	238.178 ppb	
14) m,p-xylene	22.035	17122240	475.389 ppb	
15) o-xylene	22.842	8560969	237.812 ppb	
16) h Decane	23.990	7278551	187.538 ppb	
17) t 1,3,5-trimethylbenzene	24.341	8995547	236.690 ppb	
18) 1,2,4-trimethylbenzene	24.870	8514638	235.046 ppb	
19) h Butylcyclohexane	25.040	7932011	193.999 ppb	
20) naphthalene	27.798	5078748	295.430 ppb	m
23) mtbe #2	9.139	1024897	222.532 ppb	m
24) benzene #2	14.235	3457919	240.625 ppb	
26) toluene #2	18.743	3121343	240.067 ppb	
28) ethylbenzene #2	21.885	2759330	237.056 ppb	
29) m,p-xylene #2	22.034	6555521	461.961 ppb	
30) o-xylene #2	22.840	2828680	240.078 ppb	
31) t 1,3,5-trimethylbenzen...	24.340	4111178	233.322 ppb	
32) 1,2,4-trimethylbenzen...	24.868	3054144	233.810 ppb	
33) naphthalene #2	27.796	2515568	276.864 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	3051870	233.732 ppb	

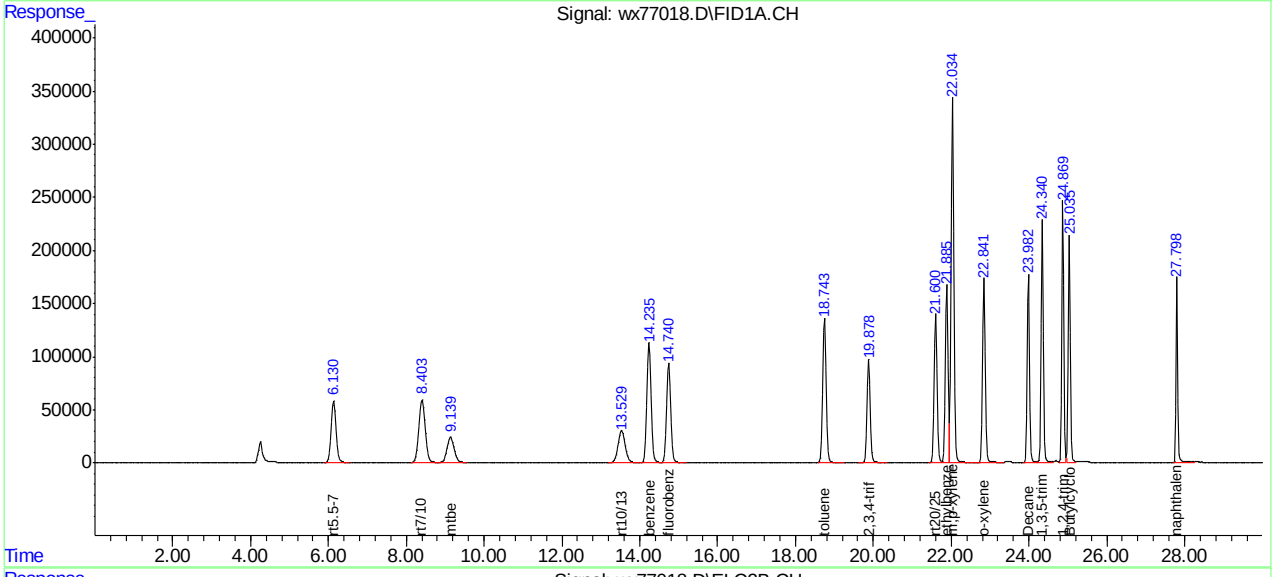
(f)=RT Delta > 1/2 Window (m)=manual int.

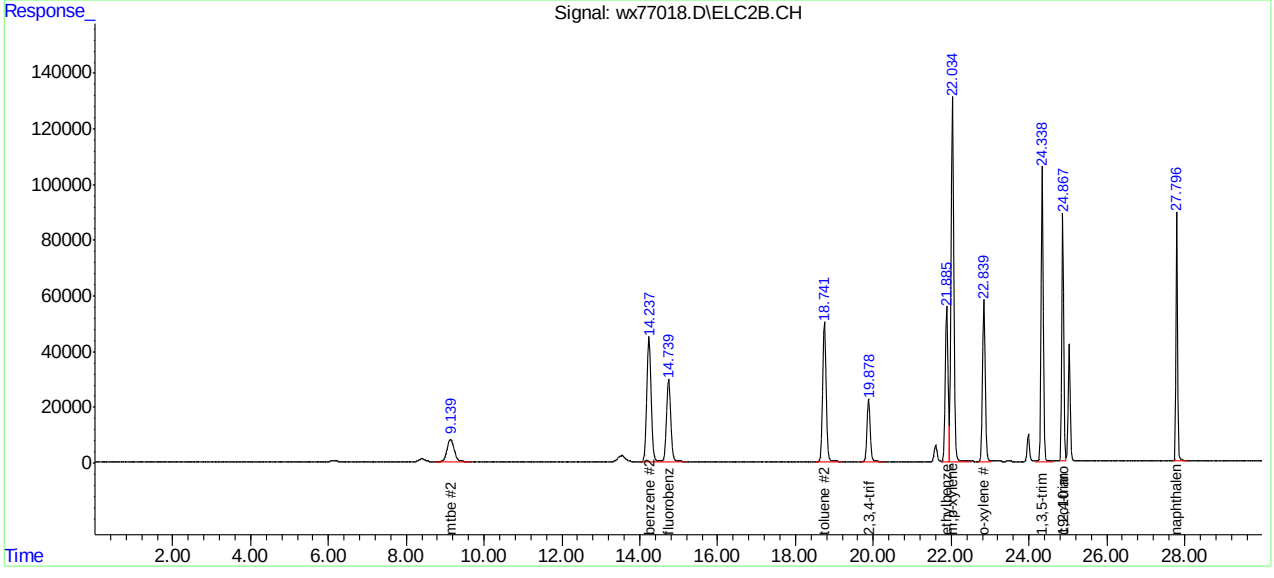
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

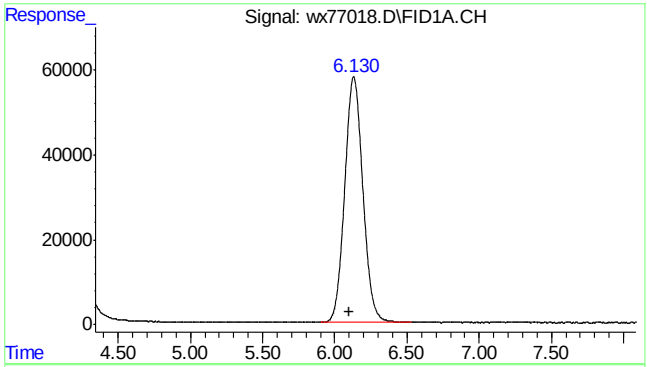
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:23:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



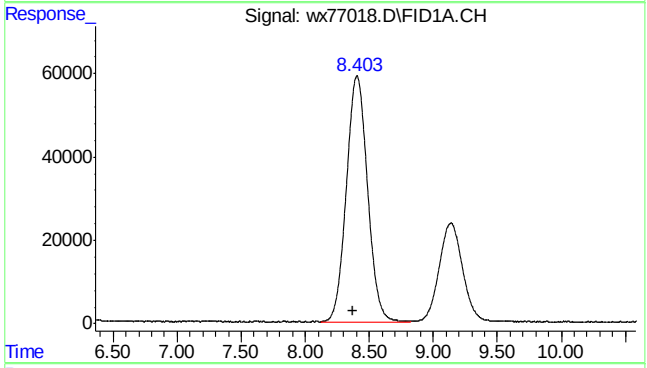


SGS ACCUTEST MC46423



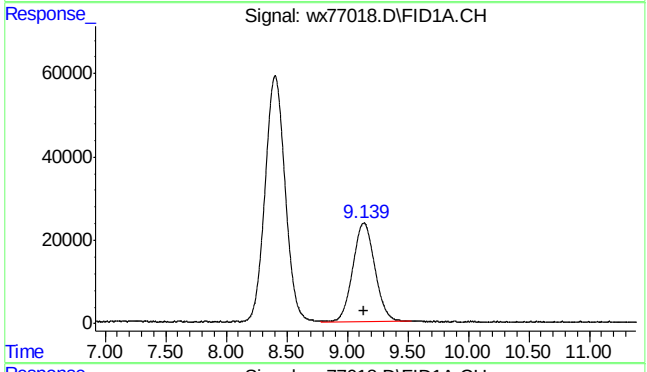
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 5076127
Conc: 226.01 ppb m



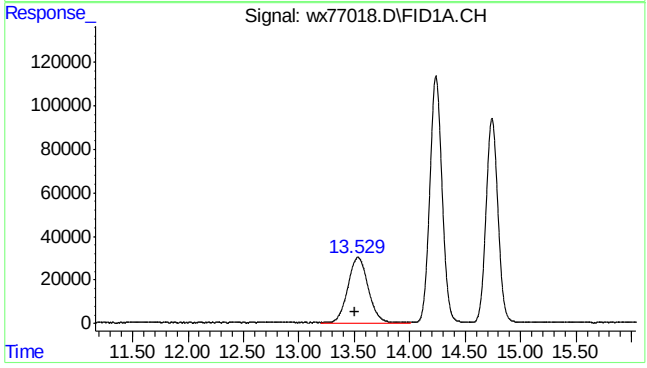
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 6805813
Conc: 231.96 ppb m



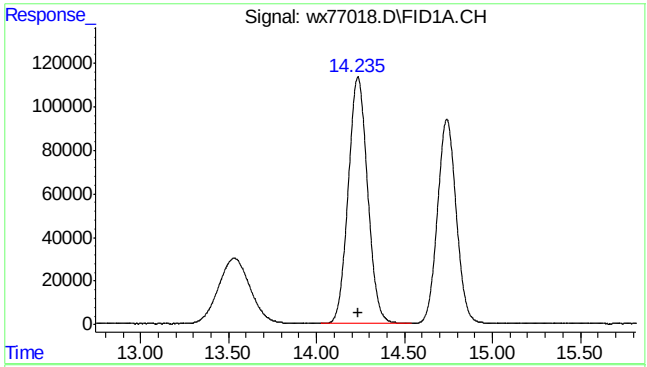
#3 mtbe

R.T.: 9.136 min
Delta R.T.: -0.003 min
Response: 2996168
Conc: 227.28 ppb



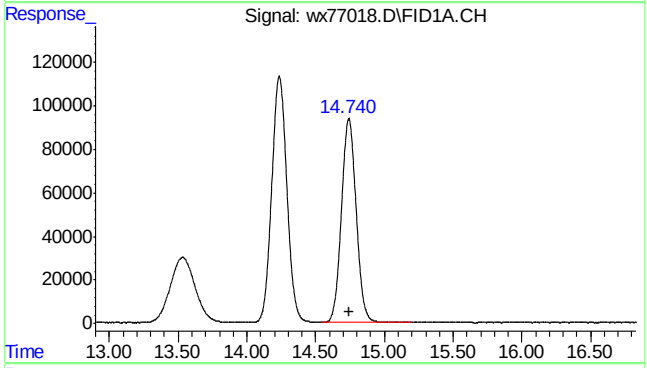
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 3812261
Conc: 148.95 ppb m



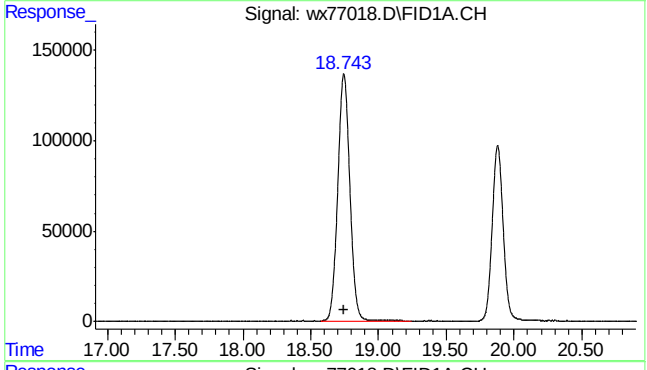
#5 benzene

R.T.: 14.235 min
Delta R.T.: -0.002 min
Response: 8687516
Conc: 241.74 ppb



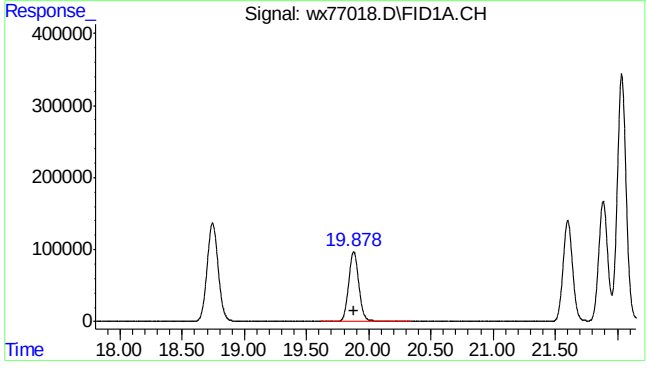
#6 fluorobenzene

R.T.: 14.741 min
Delta R.T.: -0.002 min
Response: 6984502
Conc: 247.93 ppb



#8 toluene

R.T.: 18.743 min
Delta R.T.: -0.002 min
Response: 8472374
Conc: 242.70 ppb m



#9 2,3,4-trifluorotoluene

R.T.: 19.879 min
Delta R.T.: -0.002 min
Response: 5498726
Conc: 237.14 ppb

7.5.3

7

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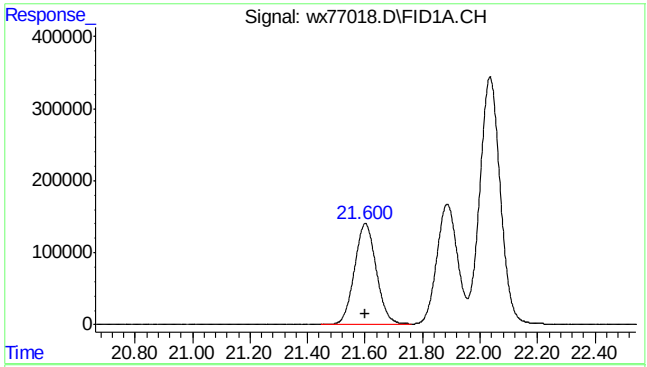
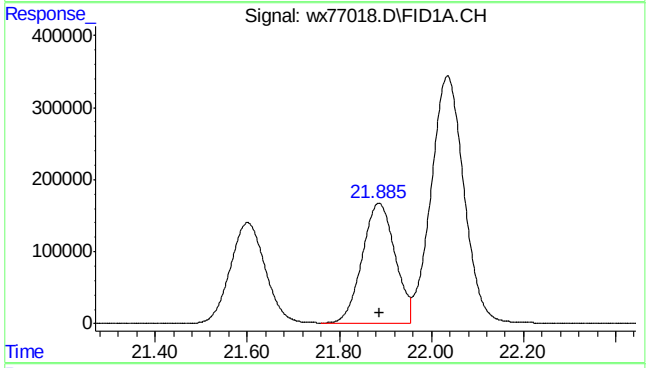


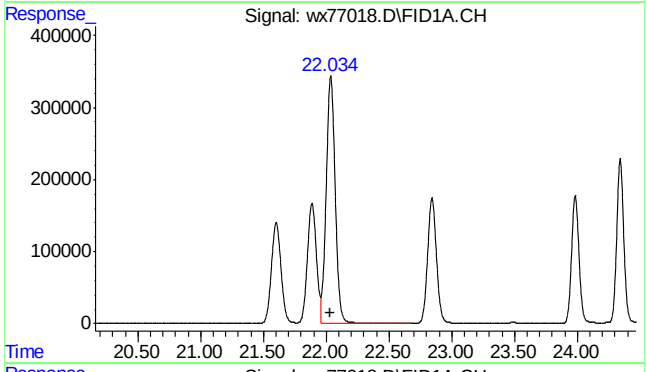
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 7408932
Conc: 192.60 ppb m



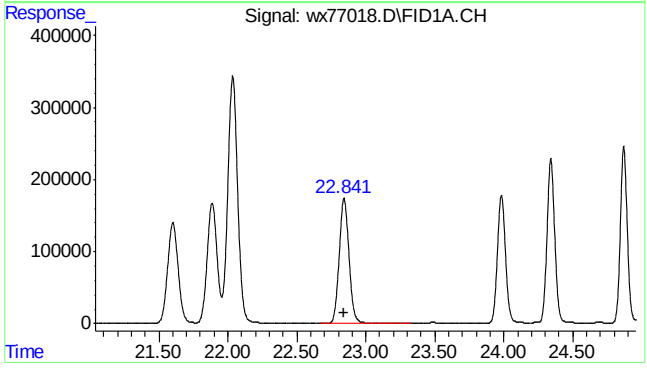
#13 ethylbenzene

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 8301433
Conc: 238.18 ppb



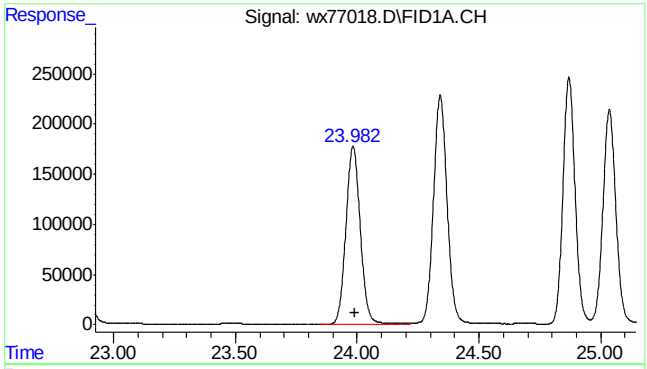
#14 m,p-xylene

R.T.: 22.035 min
Delta R.T.: 0.000 min
Response: 17122240
Conc: 475.39 ppb



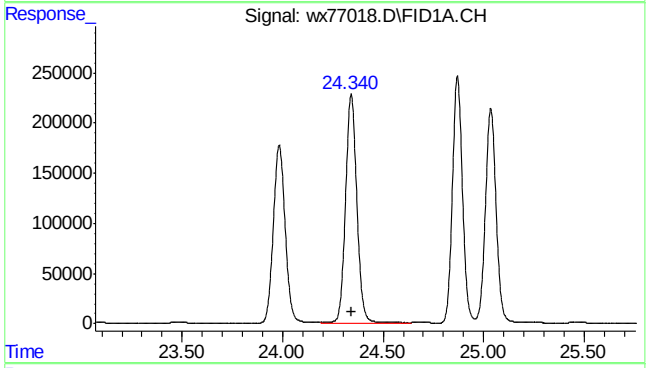
#15 o-xylene

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 8560969
Conc: 237.81 ppb



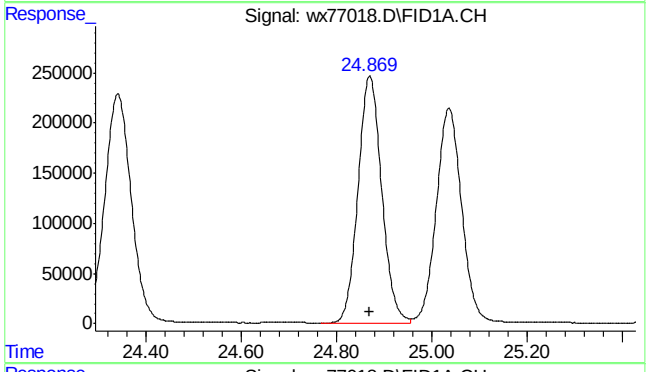
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 7278551
Conc: 187.54 ppb m



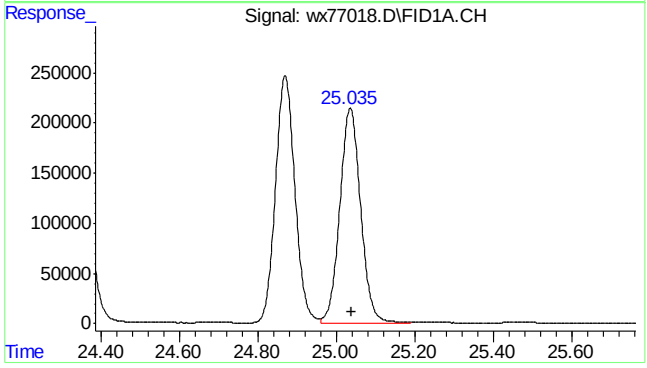
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 8995547
Conc: 236.69 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 8514638
Conc: 235.05 ppb



#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 7932011
Conc: 194.00 ppb m

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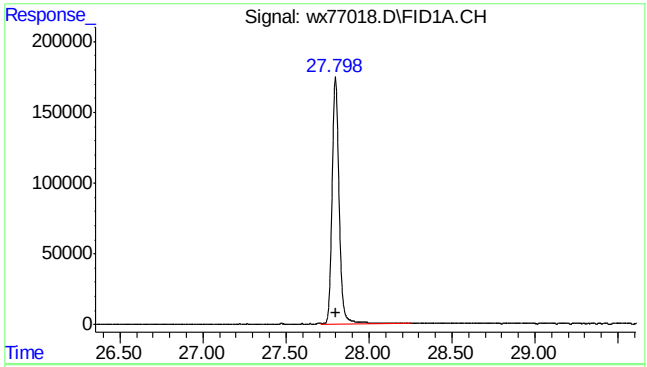
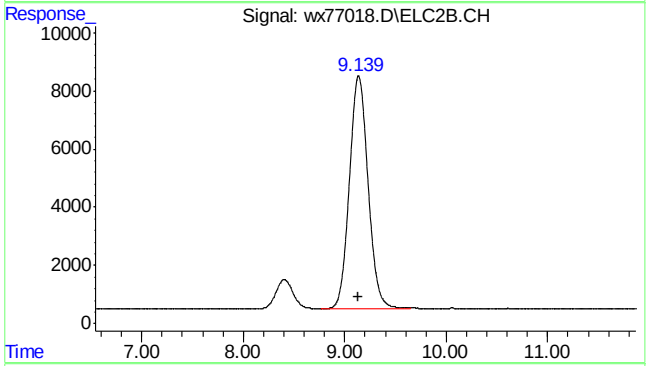


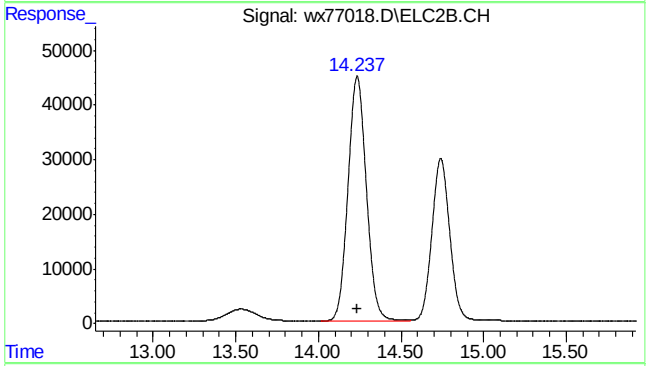
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 5078748
Conc: 295.43 ppb m



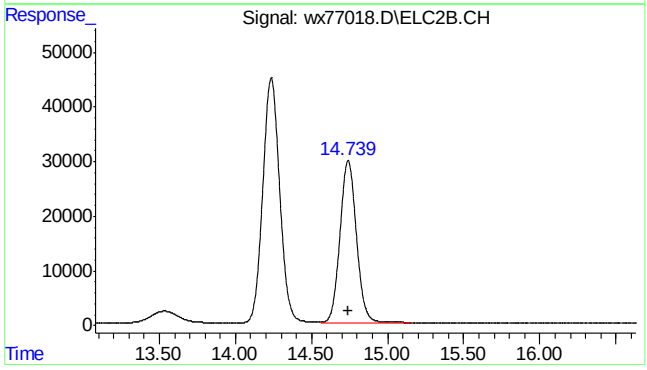
#23 mtbe #2

R.T.: 9.139 min
Delta R.T.: 0.000 min
Response: 1024897
Conc: 222.53 ppb m



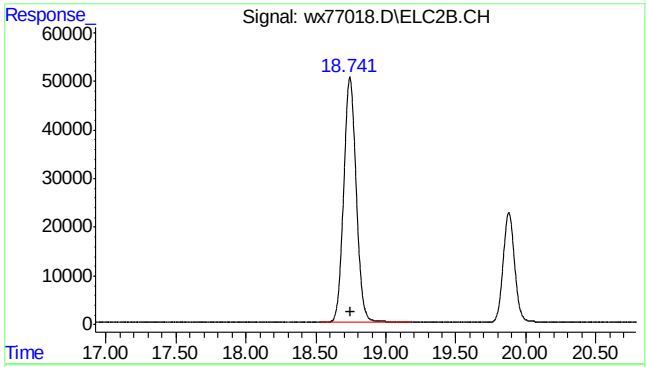
#24 benzene #2

R.T.: 14.235 min
Delta R.T.: -0.002 min
Response: 3457919
Conc: 240.62 ppb



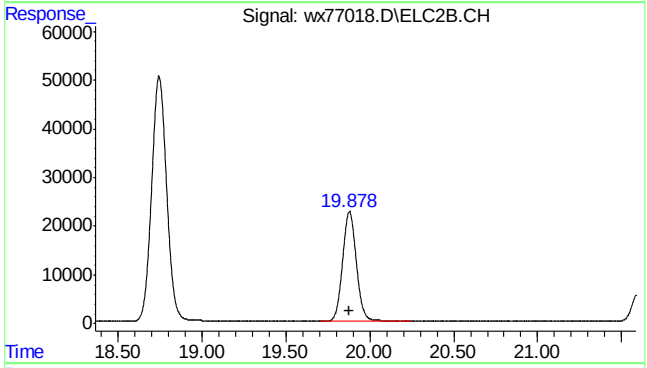
#25 fluorobenzene #2

R.T.: 14.740 min
Delta R.T.: -0.002 min
Response: 2228350
Conc: 242.81 ppb



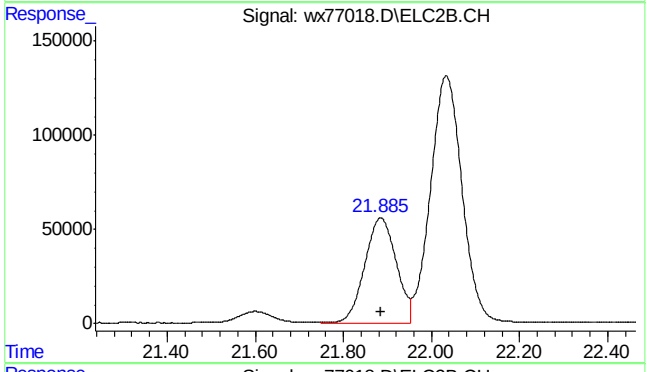
#26 toluene #2

R.T.: 18.743 min
Delta R.T.: -0.002 min
Response: 3121343
Conc: 240.07 ppb



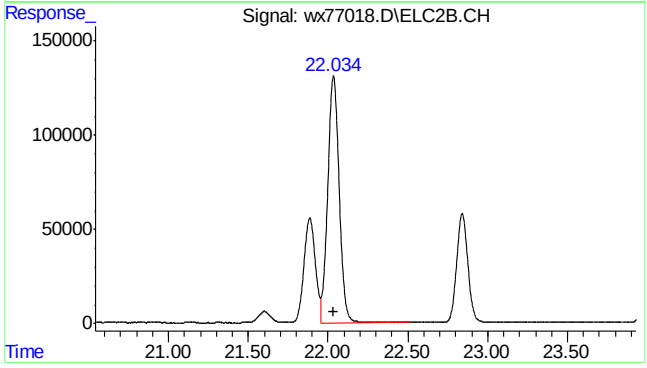
#27 2,3,4-trifluorotoluene #2

R.T.: 19.878 min
Delta R.T.: -0.002 min
Response: 1278389
Conc: 228.37 ppb



#28 ethylbenzene #2

R.T.: 21.885 min
Delta R.T.: -0.001 min
Response: 2759330
Conc: 237.06 ppb



#29 m,p-xylene #2

R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 6555521
Conc: 461.96 ppb

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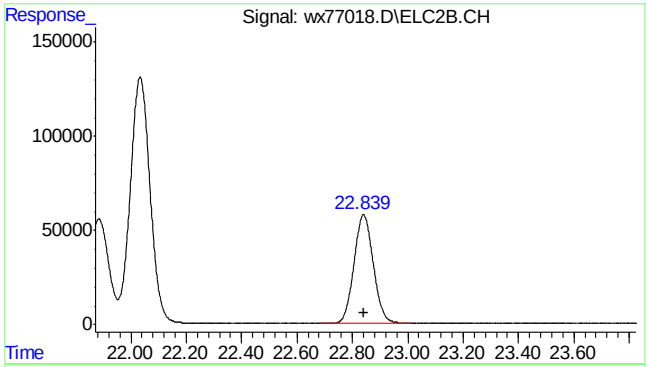
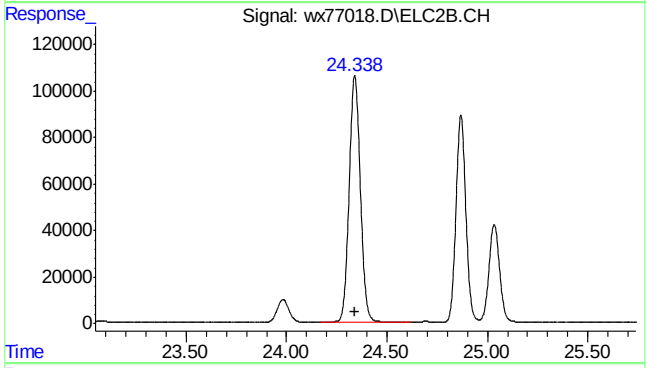


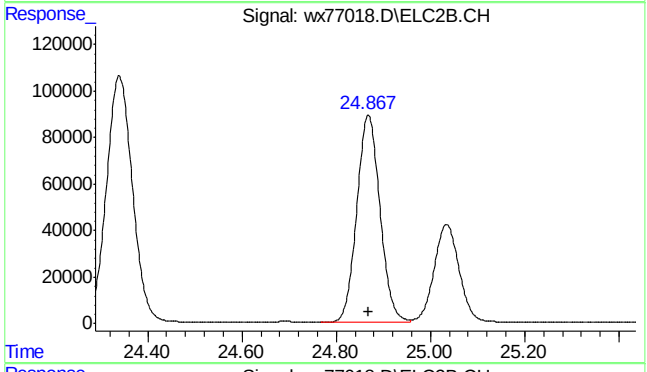
#30 o-xylene #2

R.T.: 22.840 min
Delta R.T.: 0.000 min
Response: 2828680
Conc: 240.08 ppb



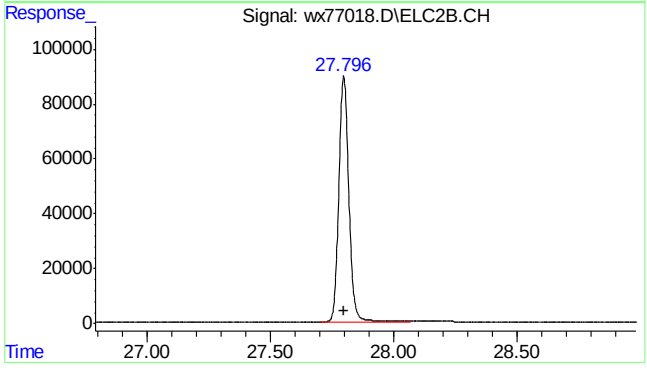
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: 0.000 min
Response: 4111178
Conc: 233.32 ppb



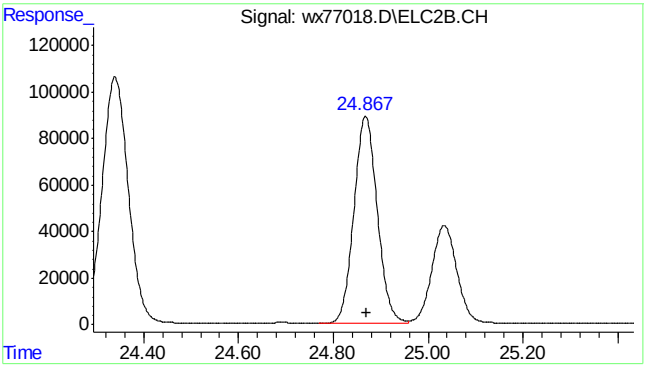
#32 1,2,4-trimethylbenzene #2

R.T.: 24.868 min
Delta R.T.: 0.000 min
Response: 3054144
Conc: 233.81 ppb



#33 naphthalene #2

R.T.: 27.796 min
Delta R.T.: 0.000 min
Response: 2515568
Conc: 276.86 ppb m



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

```
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:   3051870
      Conc: 233.73 ppb m
```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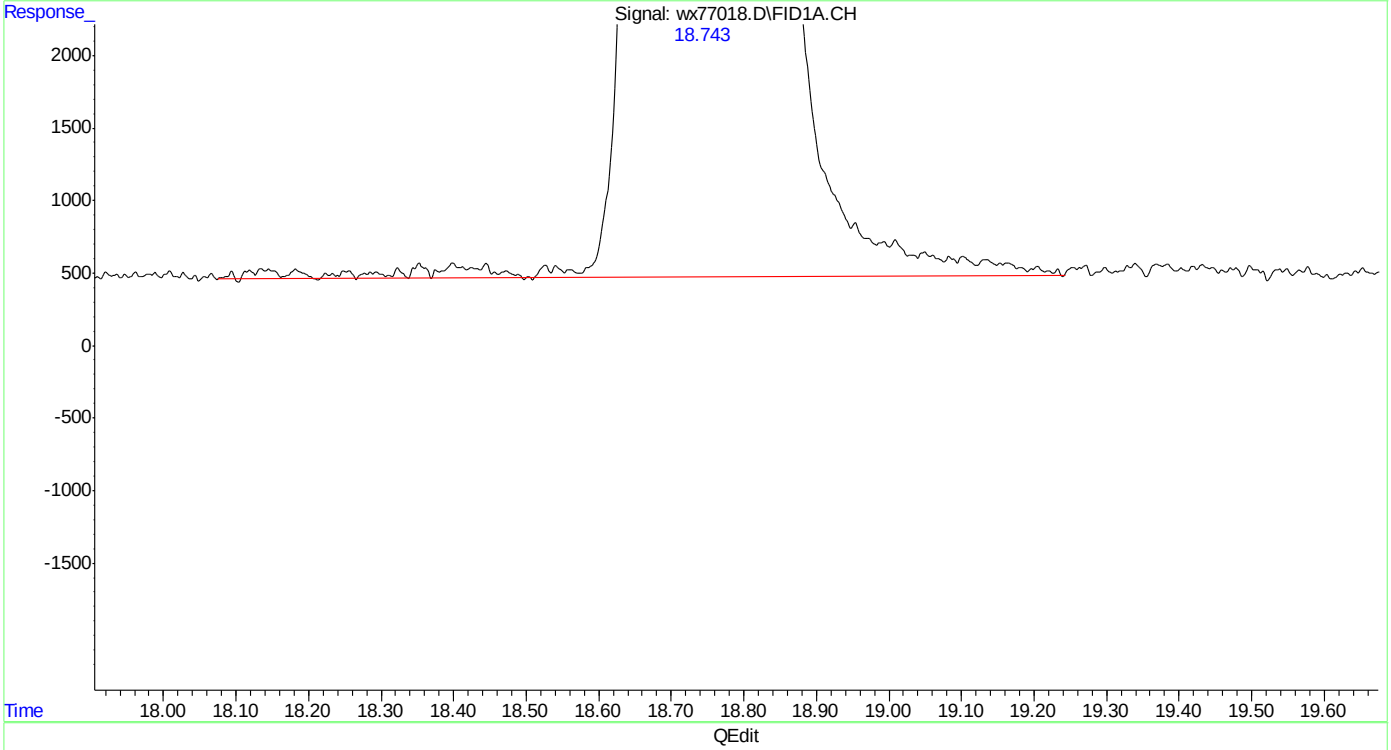
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.744min 242.887 ppb
response 8478926

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:21:55 2016

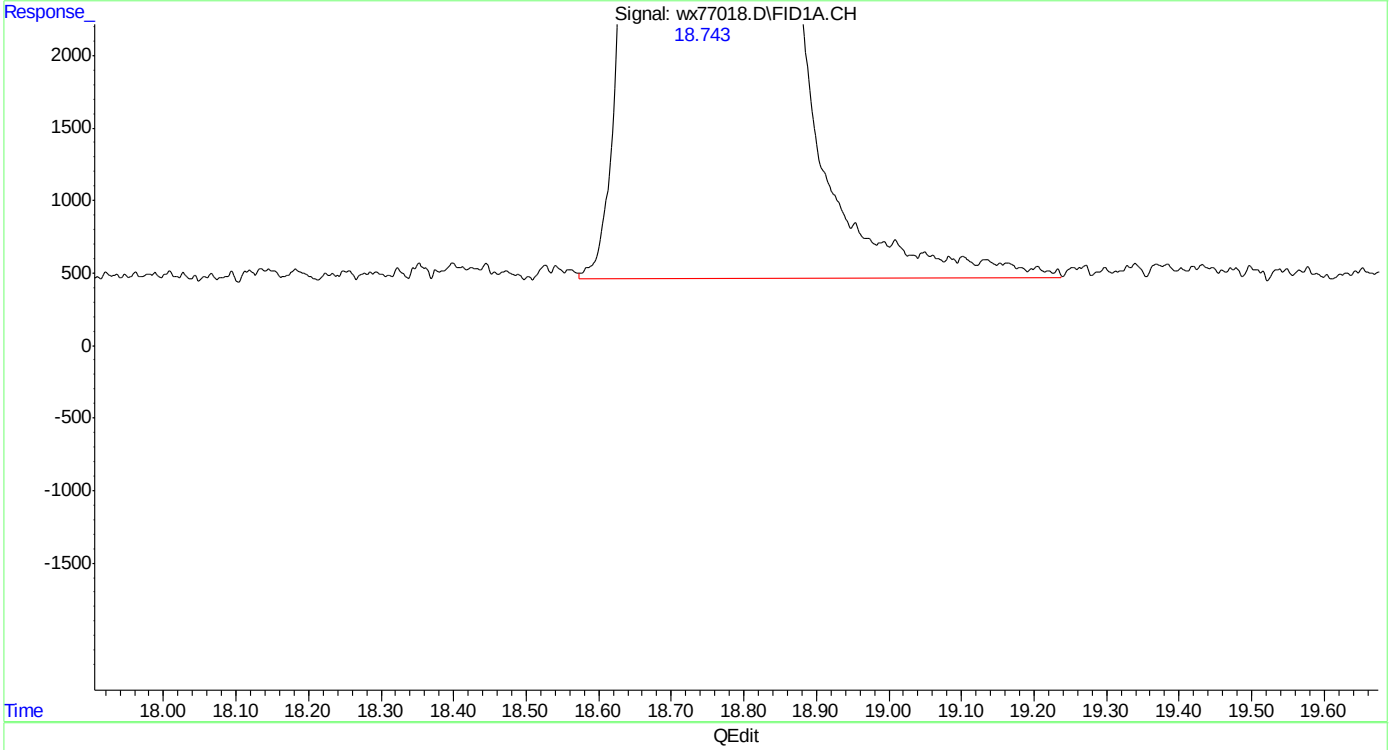
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   8:44 am
Operator  : tonyf
Sample    : ic3782-250,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 3   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(8) toluene

18.743min 242.699 ppb m

response 8472374

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:22:00 2016

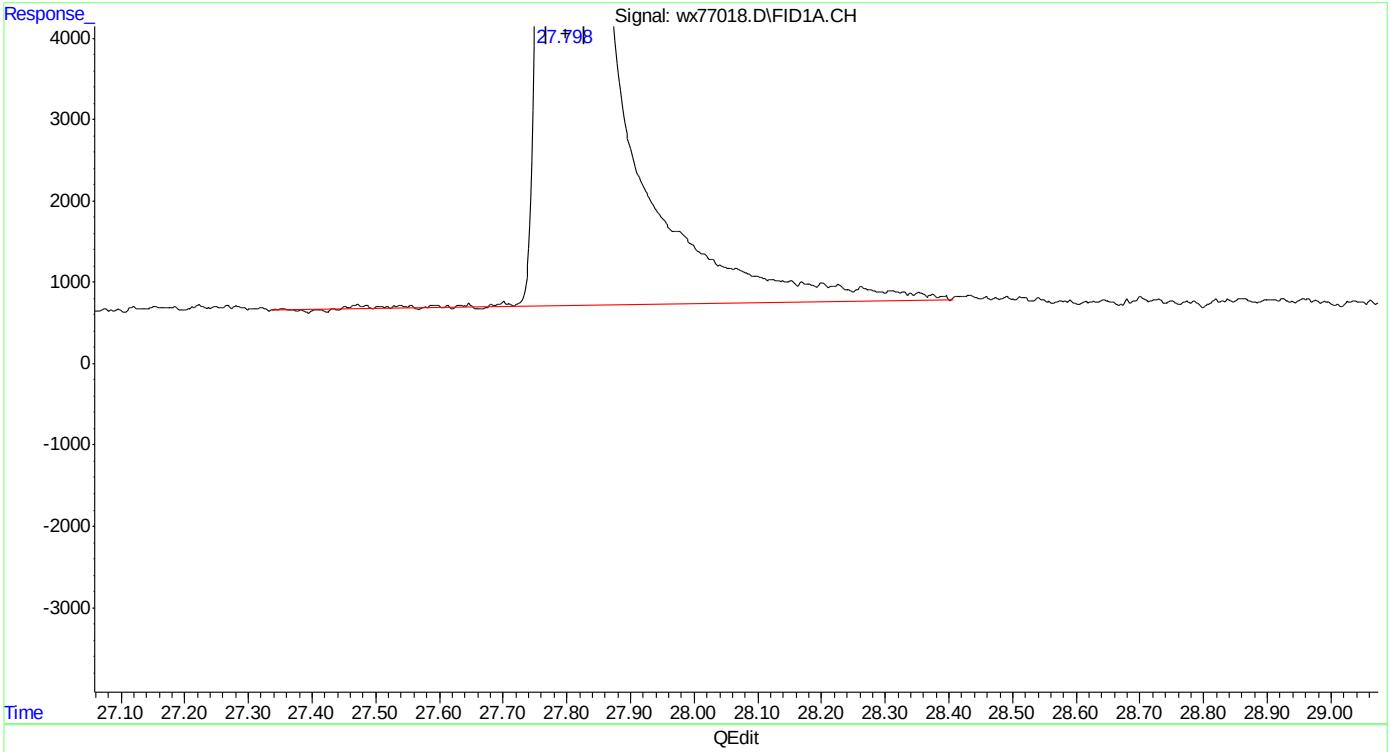
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.799min 295.807 ppb
response 5085220

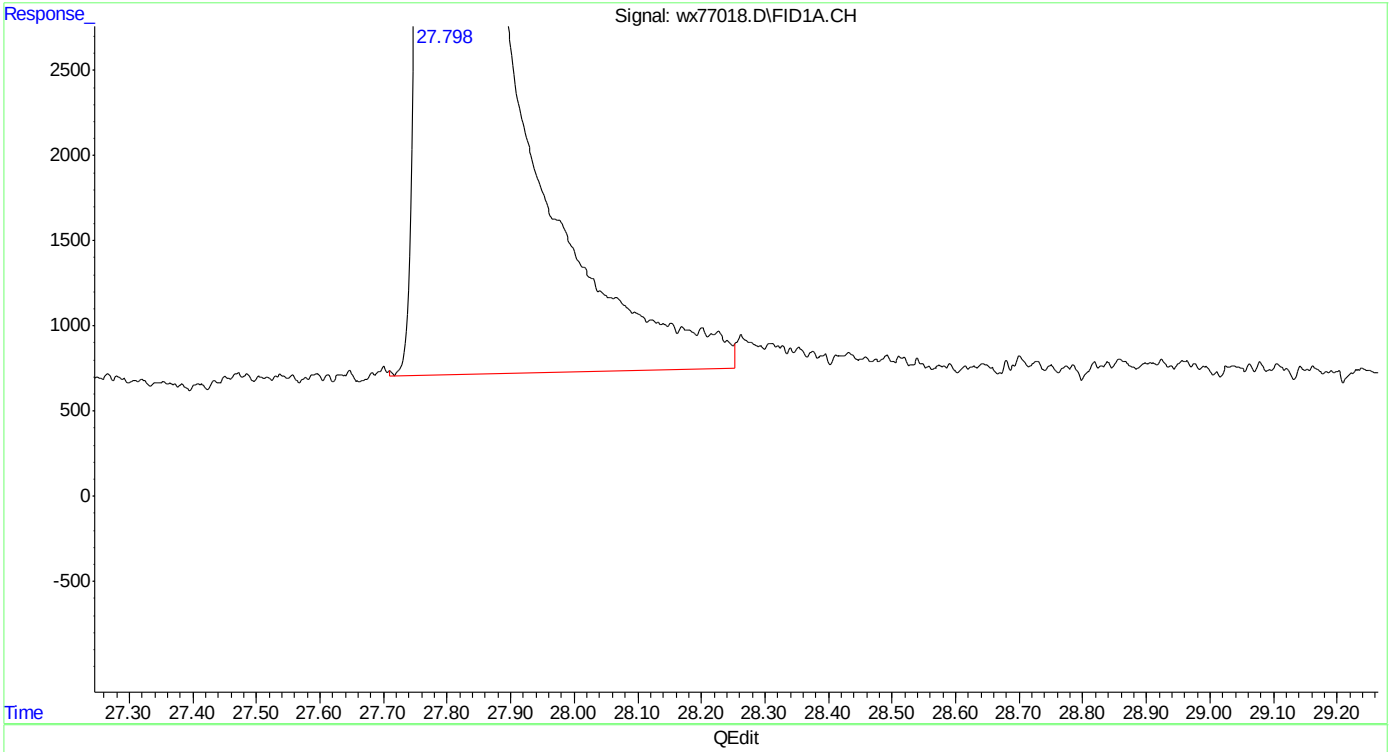
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:23 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.798min 295.430 ppb m
response 5078748

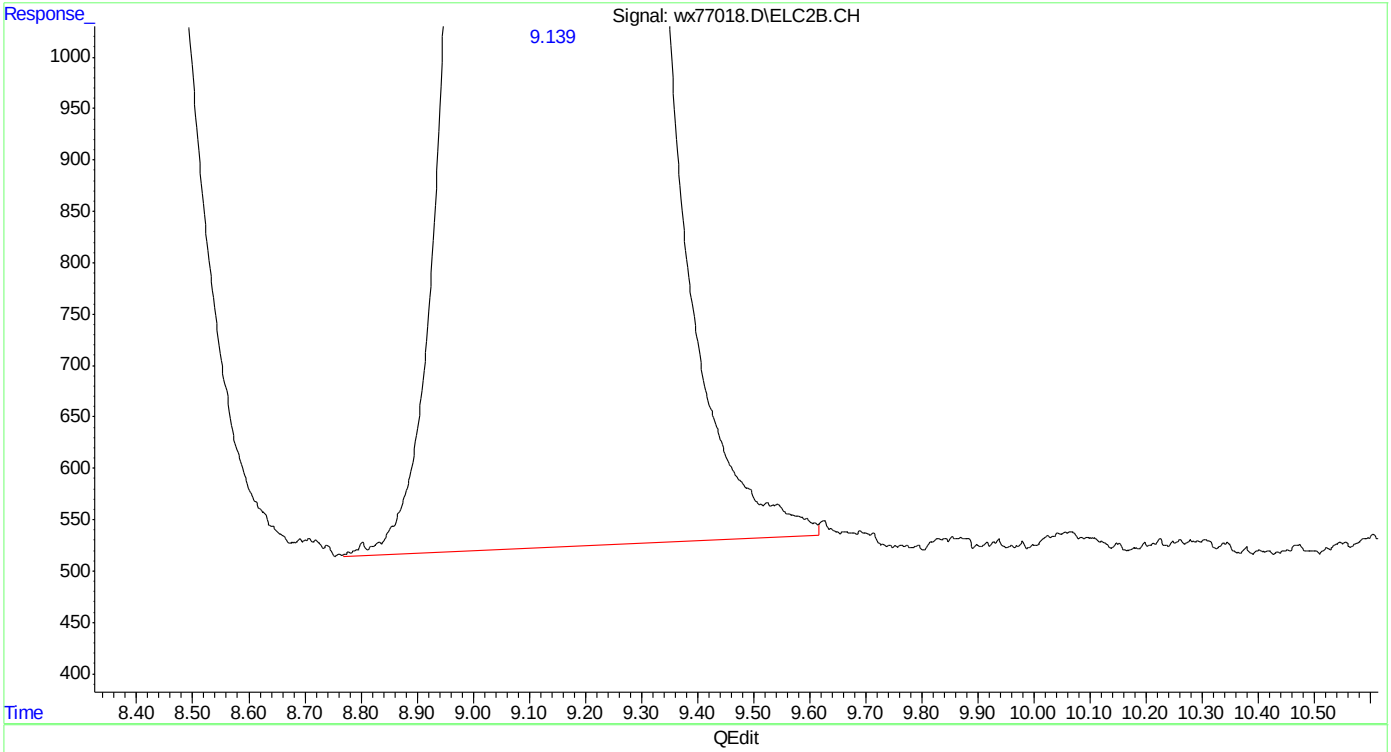
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:33 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.137min 221.301 ppb
response 1019226

(+) = Expected Retention Time

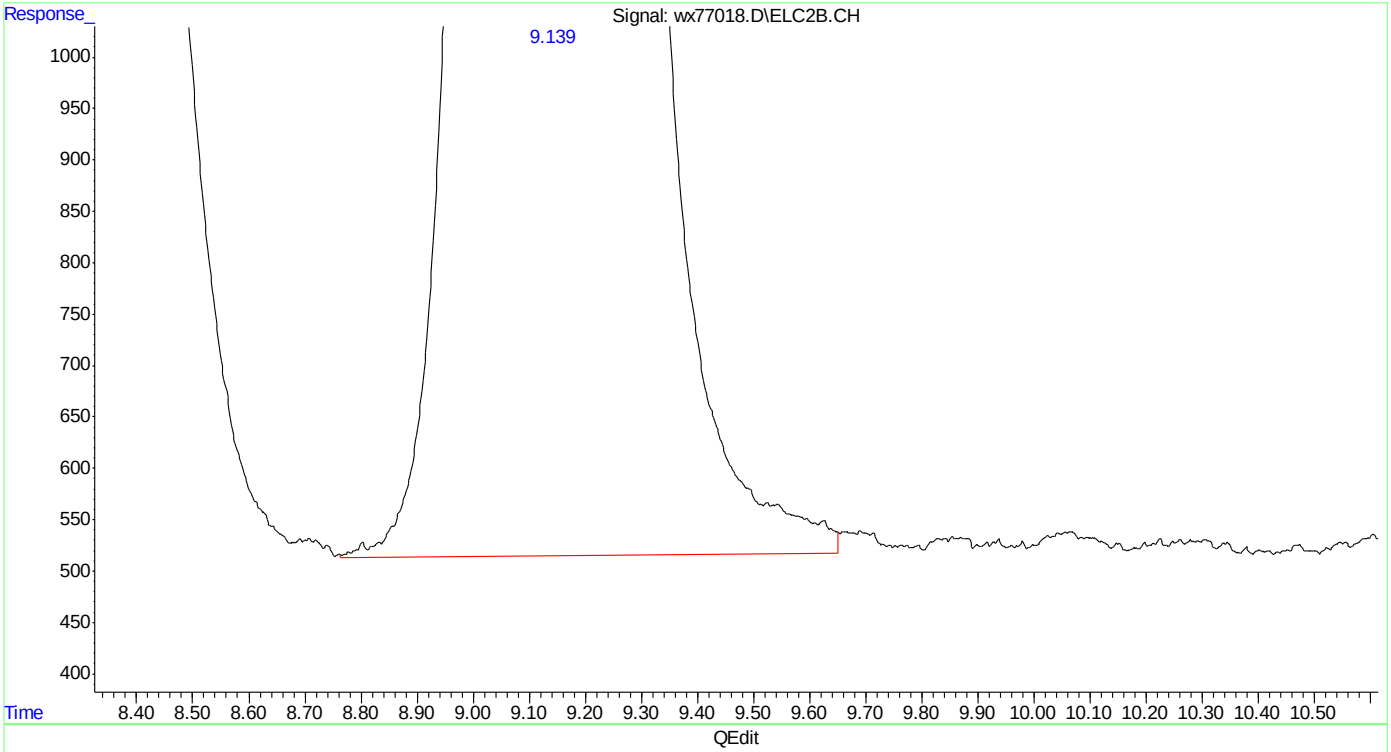
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.139min 222.532 ppb m
response 1024897

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:22:44 2016

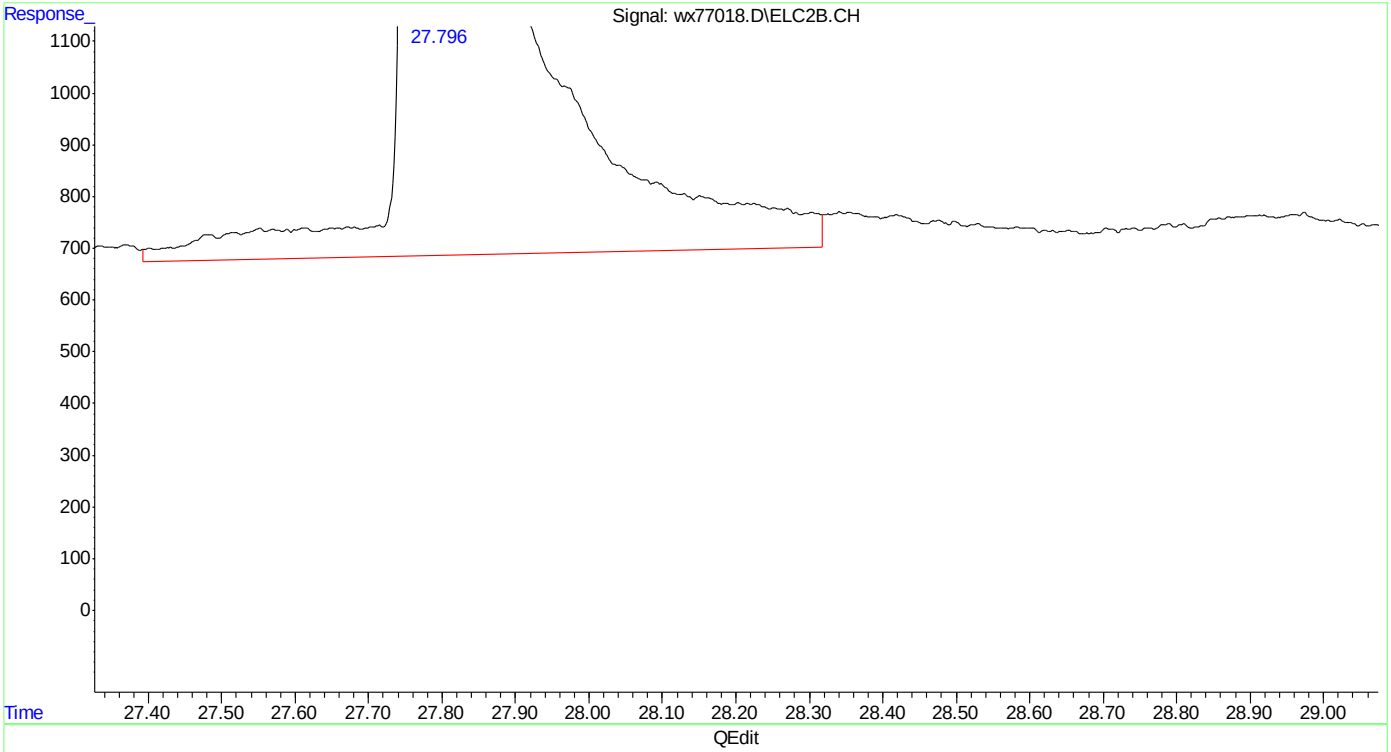
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 280.774 ppb
response 2551093

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:23:00 2016

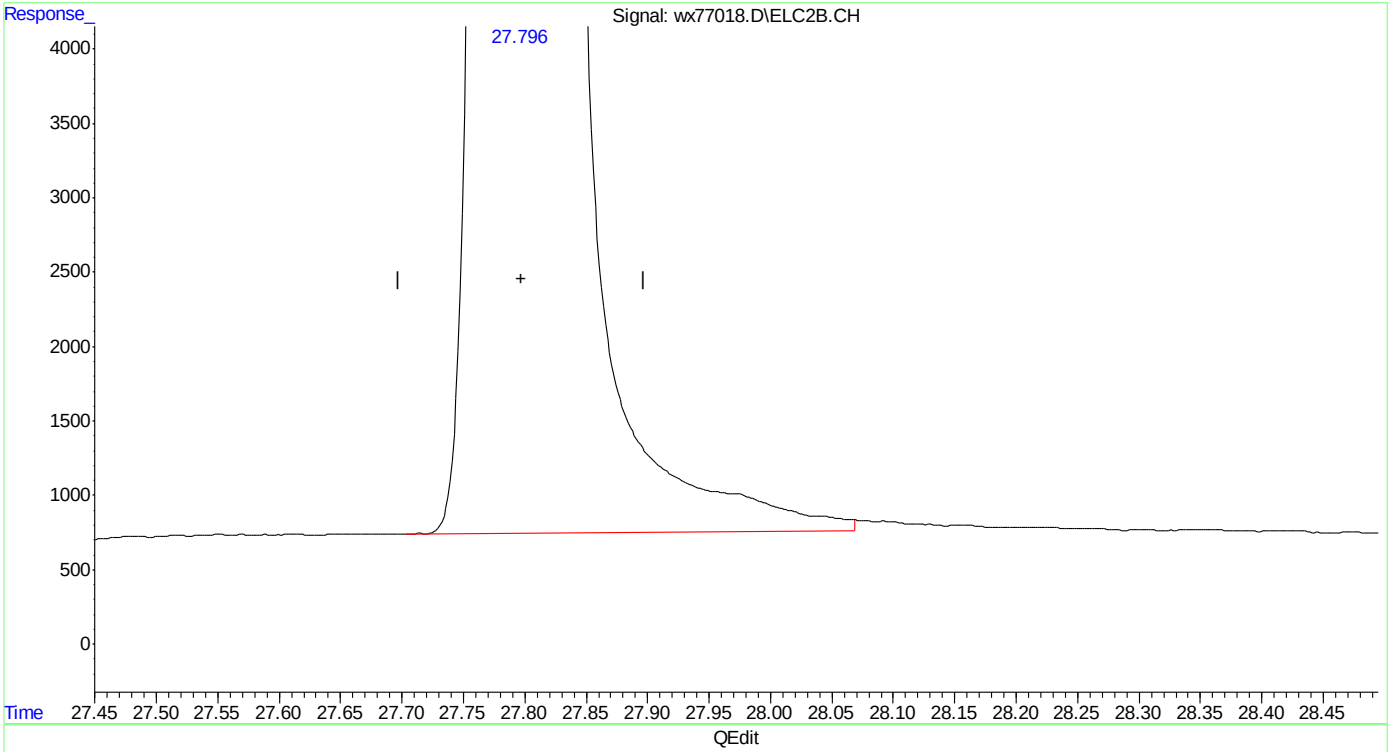
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77018.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 8:44 am
Operator : tonyf
Sample : ic3782-250,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 3 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:21:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:21:16 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.796min 276.864 ppb m
response 2515568

(+) = Expected Retention Time

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 12:01:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	2826290	100.517	ppb	
Spiked Amount 50.000		Recovery = 201.03%			
9) s 2,3,4-trifluorotoluene	19.880	2219923	97.627	ppb	
Spiked Amount 50.000		Recovery = 195.25%			
25) s fluorobenzene #2	14.743	903308	100.123	ppb	
Spiked Amount 50.000		Recovery = 200.25%			
27) s 2,3,4-trifluorotoluen...	19.880	521719	97.351	ppb	
Spiked Amount 50.000		Recovery = 194.70%			
Target Compounds					
1) h rt5.5-7	6.100	2087396	91.048	ppb	
2) h rt7/10	8.370	2764741	93.648	ppb	
3) mtbe	9.139f	1257880	94.125	ppb	
4) h rt10/13	13.510	1883245	71.805	ppb	
5) benzene	14.237	3513605	98.513	ppb	
8) toluene	18.745	3420737	97.412	ppb	
11) h rt20/25	21.600	3087753	89.334	ppb	
13) ethylbenzene	21.887	3374612	97.310	ppb	
14) m,p-xylene	22.035	6965715	194.485	ppb	
15) o-xylene	22.843	3434927	96.515	ppb	
16) h Decane	23.990	3086985	87.001	ppb	
17) t 1,3,5-trimethylbenzene	24.341	3639999	97.763	ppb	
18) 1,2,4-trimethylbenzene	24.870	3444658	96.322	ppb	
19) h Butylcyclohexane	25.040	3278591	89.062	ppb	
20) naphthalene	27.799	2113347	110.860	ppb	m
23) mtbe #2	9.138	427488	94.513	ppb	m
24) benzene #2	14.237	1402945	98.089	ppb	
26) toluene #2	18.745	1276447	98.678	ppb	
28) ethylbenzene #2	21.886	1130404	98.279	ppb	
29) m,p-xylene #2	22.034	2729335	194.417	ppb	
30) o-xylene #2	22.841	1154871	98.238	ppb	m
31) t 1,3,5-trimethylbenzen...	24.340	1687926	97.616	ppb	
32) 1,2,4-trimethylbenzen...	24.869	1249788	97.780	ppb	
33) naphthalene #2	27.797	1060250	108.698	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	1248686	97.804	ppb	

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

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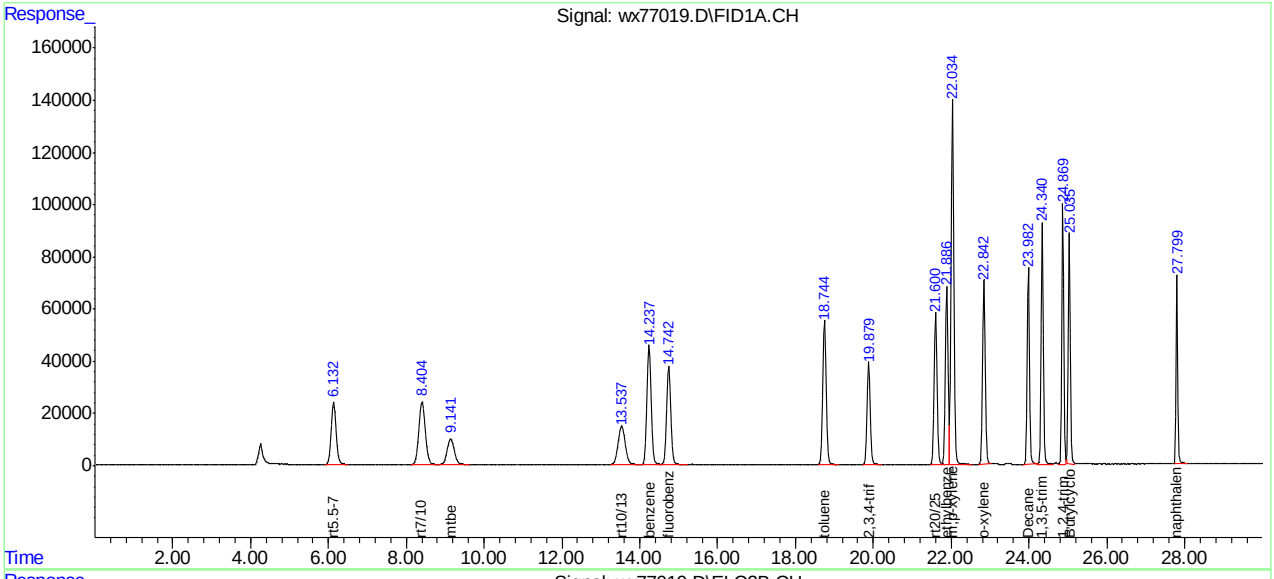
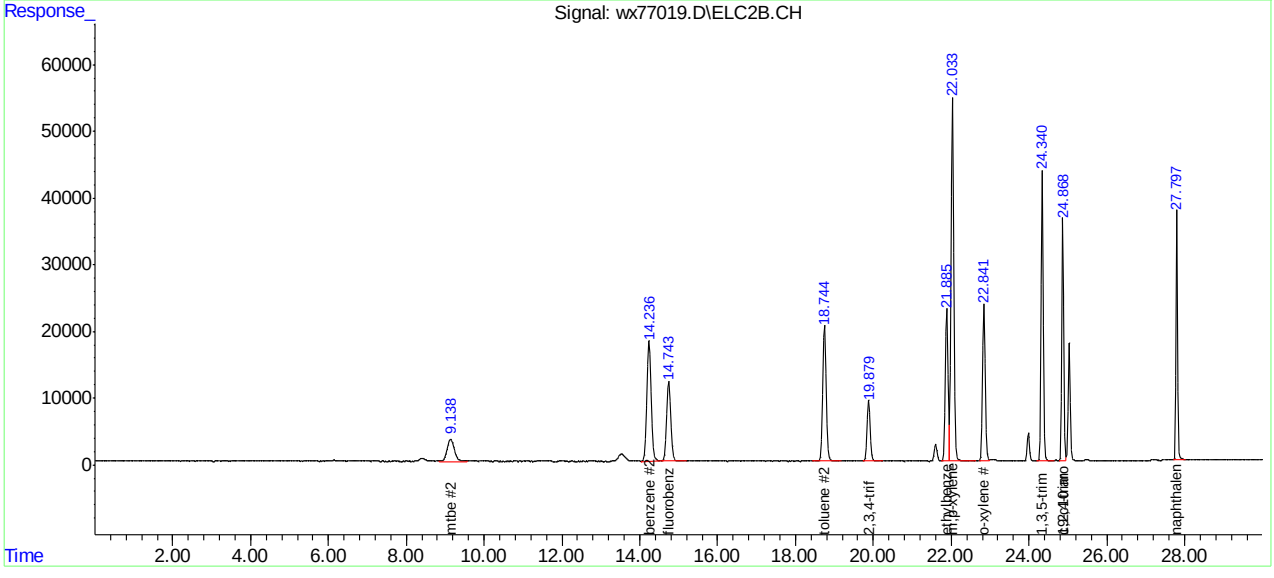
Quantitation Report (QT Reviewed)

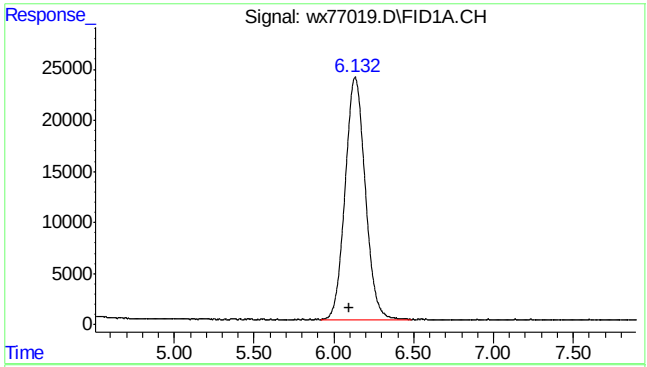
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 12:01:21 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

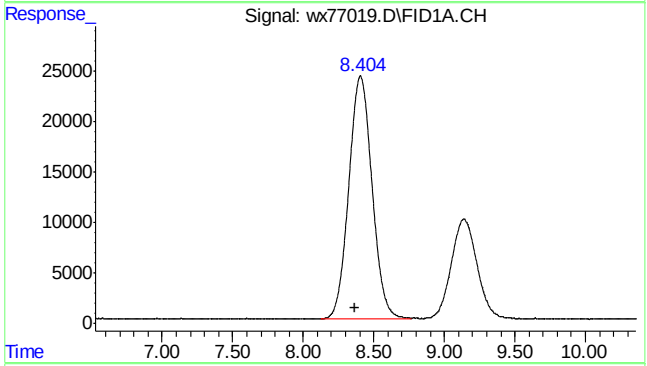






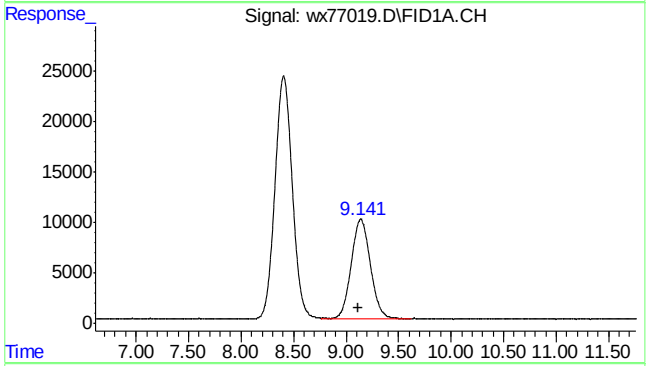
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 2087396
Conc: 91.05 ppb m



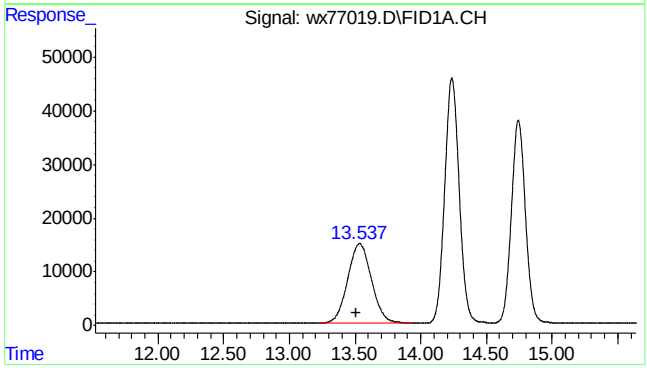
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 2764741
Conc: 93.65 ppb m



#3 mtbe

R.T.: 9.139 min
Delta R.T.: 0.019 min
Response: 1257880
Conc: 94.12 ppb



#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1883245
Conc: 71.81 ppb m

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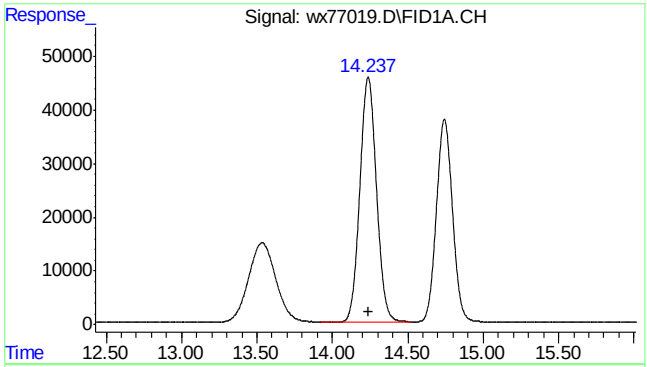
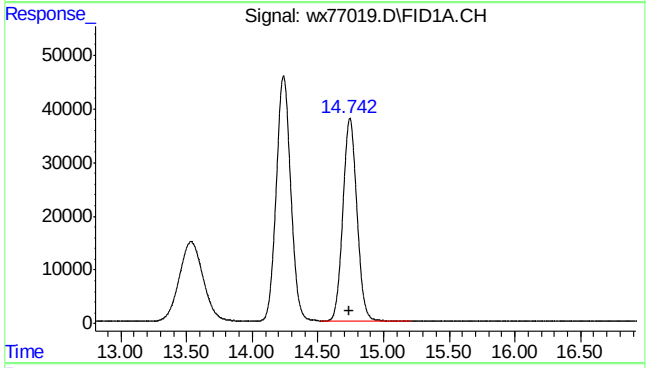


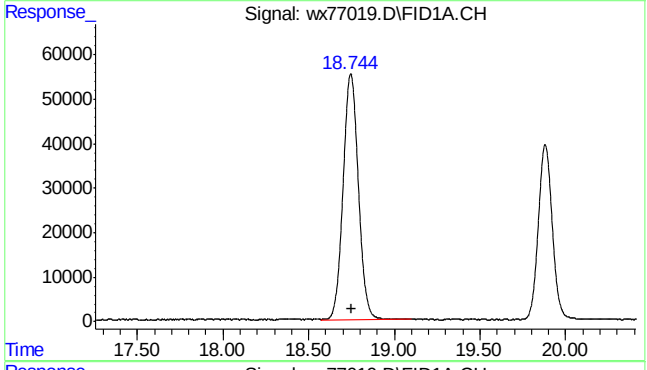
#5 benzene

R.T.: 14.237 min
Delta R.T.: -0.006 min
Response: 3513605
Conc: 98.51 ppb



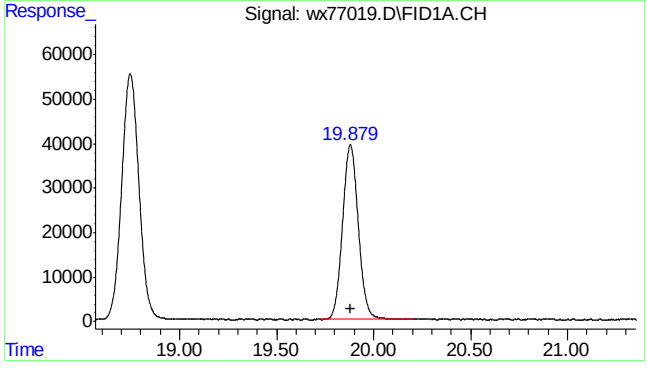
#6 fluorobenzene

R.T.: 14.743 min
Delta R.T.: 0.000 min
Response: 2826290
Conc: 100.52 ppb



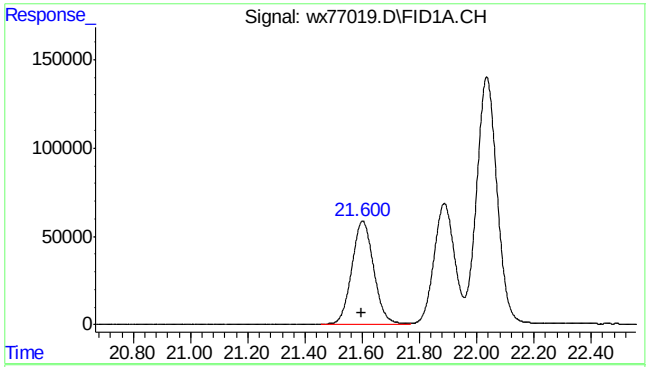
#8 toluene

R.T.: 18.745 min
Delta R.T.: -0.005 min
Response: 3420737
Conc: 97.41 ppb



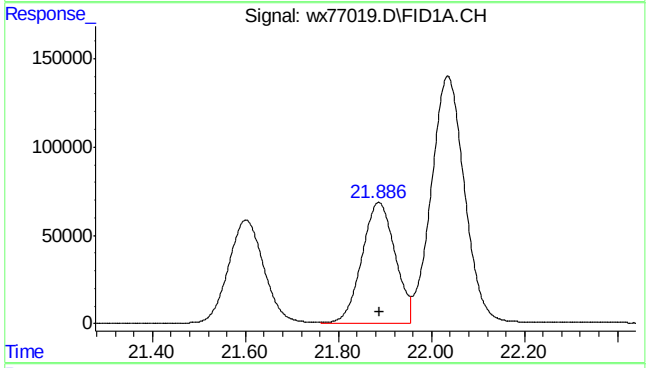
#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: -0.002 min
Response: 2219923
Conc: 97.63 ppb



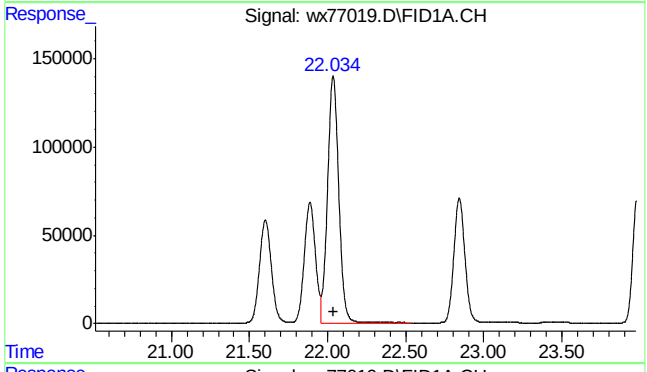
#11 rt20/25

```
      R.T.:   21.600 min
Delta R.T.:    0.000 min
  Response:   3087753
      Conc:  89.33 ppb m
```



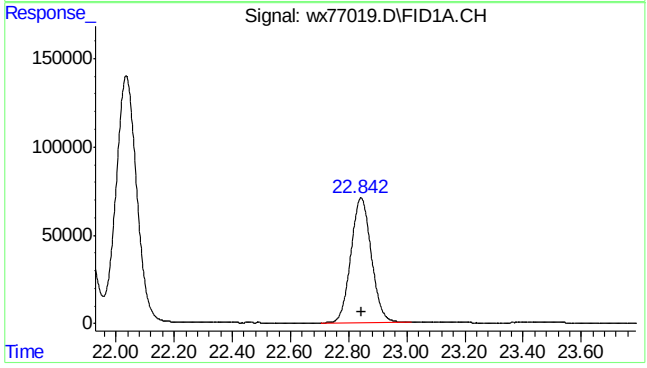
#13 ethylbenzene

```
      R.T.:   21.887 min
Delta R.T.:   -0.002 min
  Response:   3374612
      Conc:  97.31 ppb
```



#14 m,p-xylene

```
      R.T.:   22.035 min
Delta R.T.:   -0.002 min
  Response:   6965715
      Conc: 194.48 ppb
```



#15 o-xylene

```
      R.T.:   22.843 min
Delta R.T.:    0.000 min
  Response:   3434927
      Conc:  96.51 ppb
```

7.5.4

7

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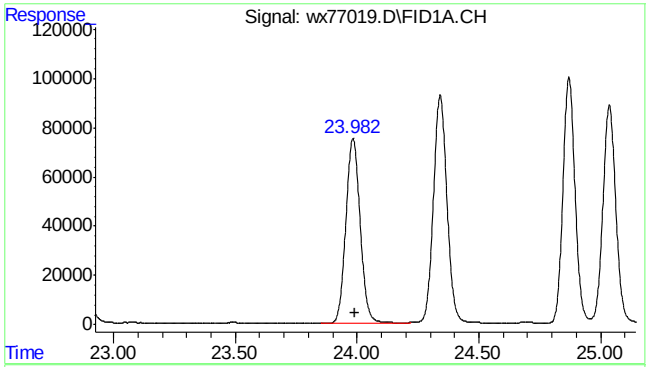
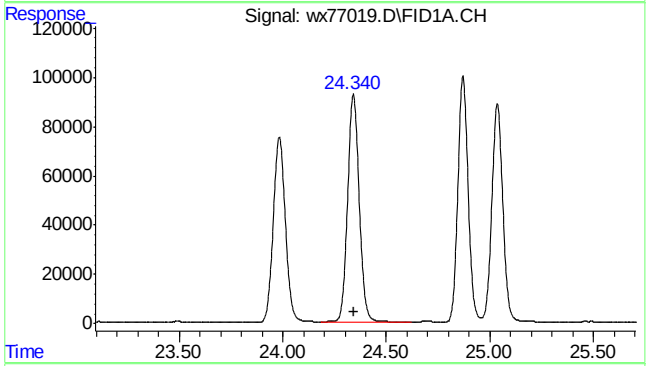


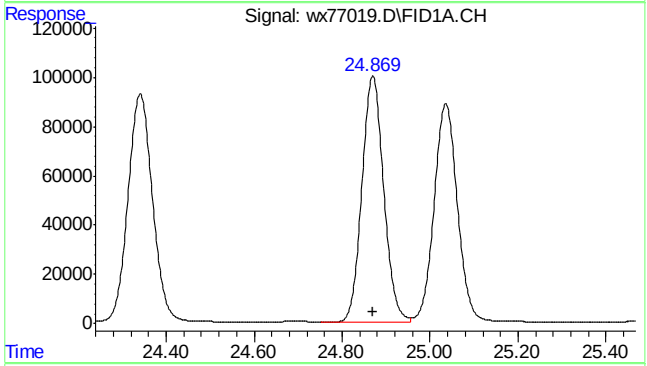
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 3086985
Conc: 87.00 ppb m



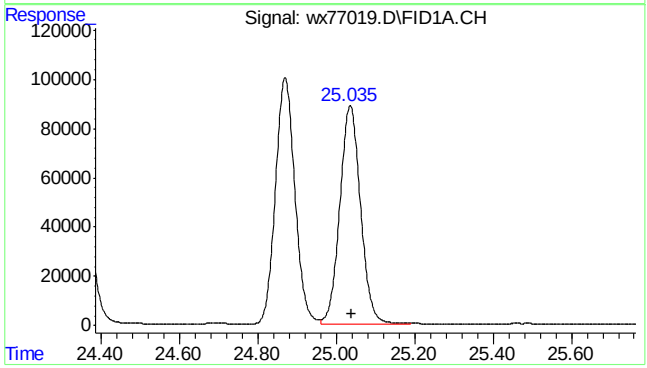
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: -0.001 min
Response: 3639999
Conc: 97.76 ppb



#18 1,2,4-trimethylbenzene

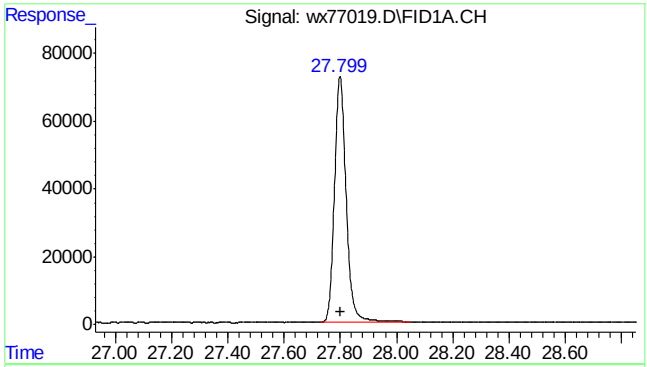
R.T.: 24.870 min
Delta R.T.: -0.001 min
Response: 3444658
Conc: 96.32 ppb



#19 Butylcyclohexane

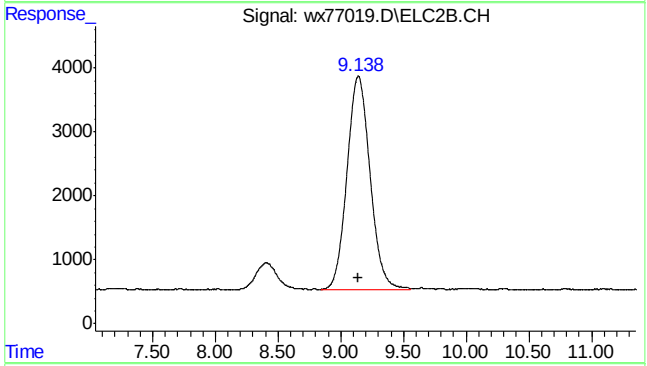
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 3278591
Conc: 89.06 ppb m

SGS ACCUTEST MC46423



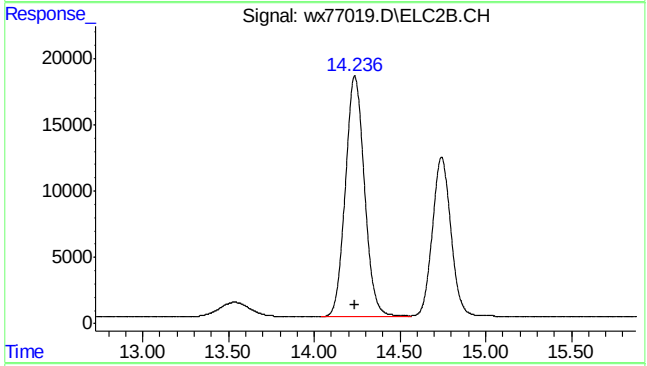
#20 naphthalene

R.T.: 27.799 min
Delta R.T.: -0.002 min
Response: 2113347
Conc: 110.86 ppb m



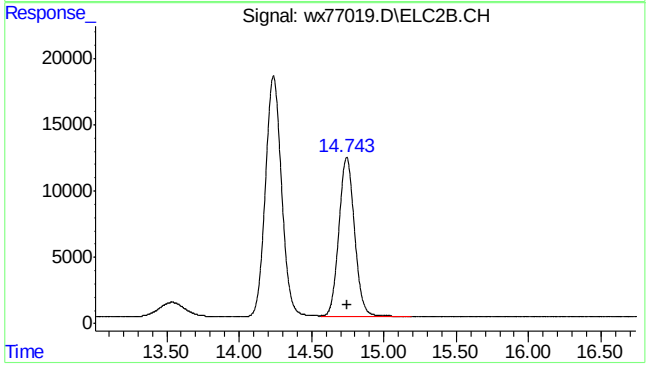
#23 mtbe #2

R.T.: 9.138 min
Delta R.T.: -0.007 min
Response: 427488
Conc: 94.51 ppb m



#24 benzene #2

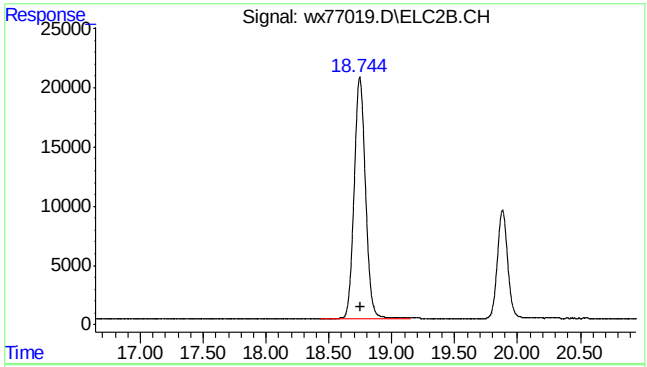
R.T.: 14.237 min
Delta R.T.: -0.003 min
Response: 1402945
Conc: 98.09 ppb



#25 fluorobenzene #2

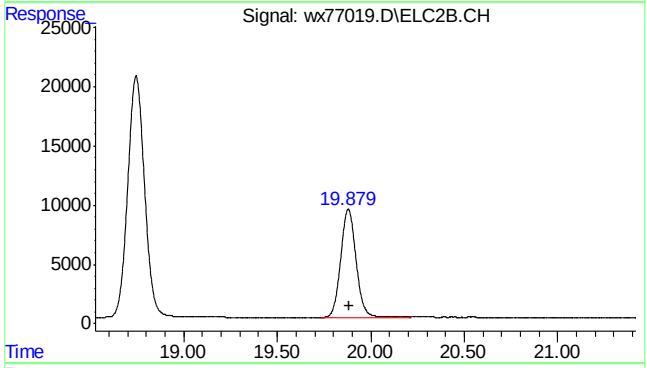
R.T.: 14.743 min
Delta R.T.: -0.007 min
Response: 903308
Conc: 100.12 ppb

SGS ACCUTEST MC46423



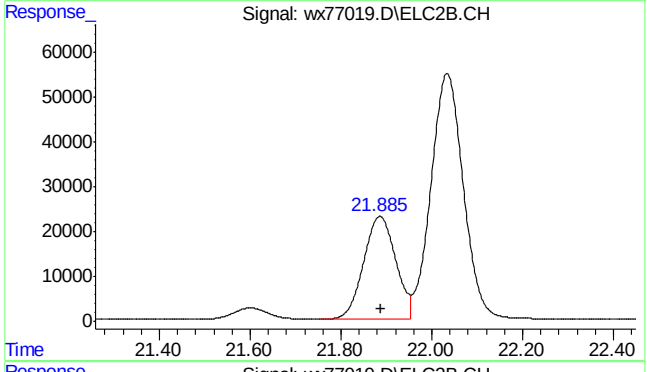
#26 toluene #2

R.T.: 18.745 min
Delta R.T.: -0.005 min
Response: 1276447
Conc: 98.68 ppb



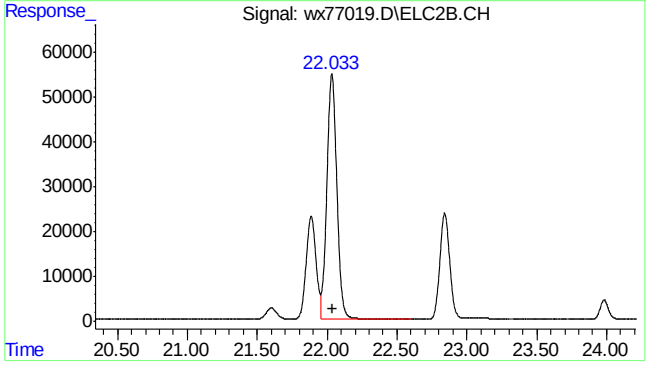
#27 2,3,4-trifluorotoluene #2

R.T.: 19.880 min
Delta R.T.: -0.006 min
Response: 521719
Conc: 97.35 ppb



#28 ethylbenzene #2

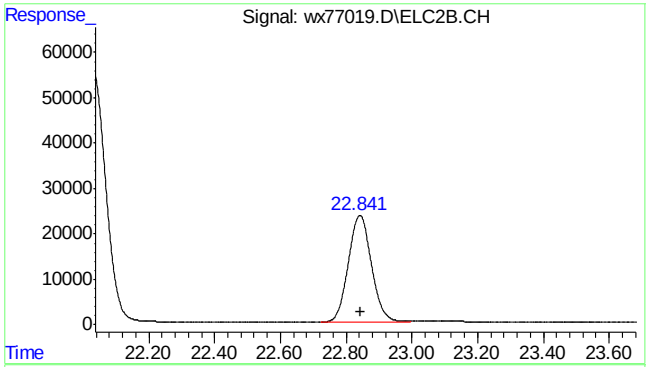
R.T.: 21.886 min
Delta R.T.: -0.003 min
Response: 1130404
Conc: 98.28 ppb



#29 m,p-xylene #2

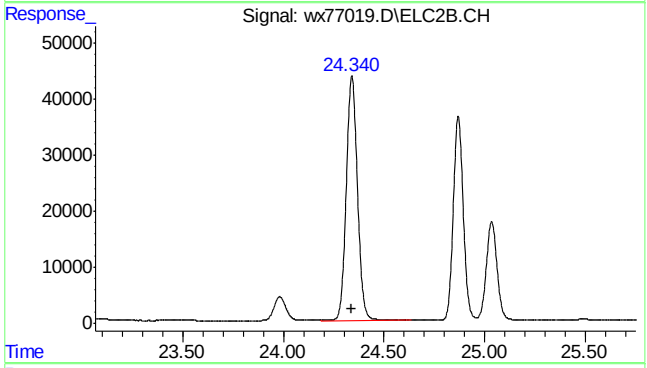
R.T.: 22.034 min
Delta R.T.: -0.003 min
Response: 2729335
Conc: 194.42 ppb

SGS ACCUTEST MC46423



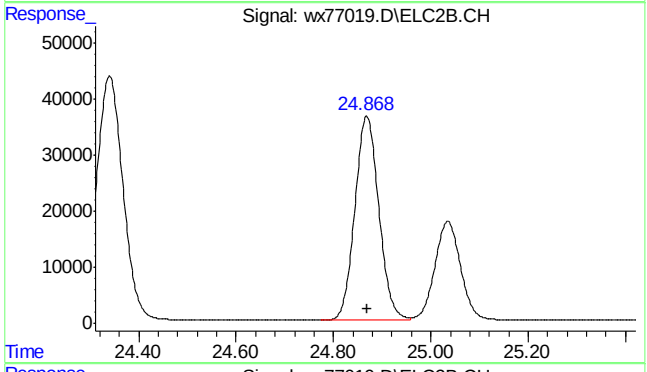
#30 o-xylene #2

R.T.: 22.841 min
Delta R.T.: -0.003 min
Response: 1154871
Conc: 98.24 ppb m



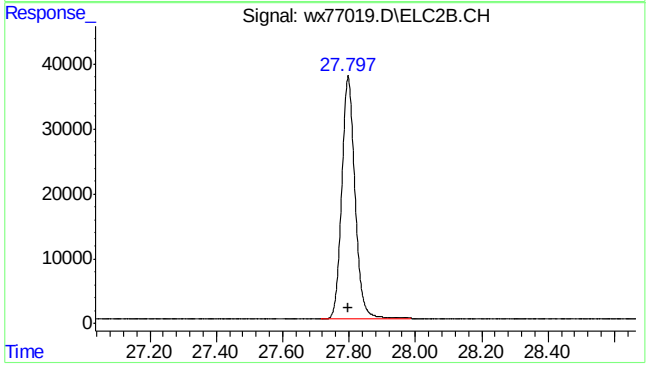
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: -0.001 min
Response: 1687926
Conc: 97.62 ppb



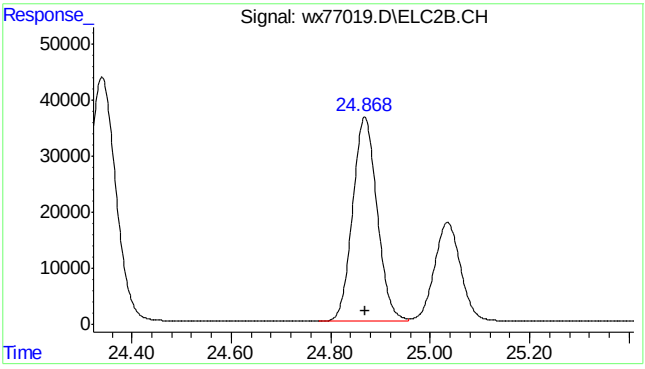
#32 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: -0.002 min
Response: 1249788
Conc: 97.78 ppb



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 1060250
Conc: 108.70 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 1248686
Conc: 97.80 ppb m

7.5.4

7

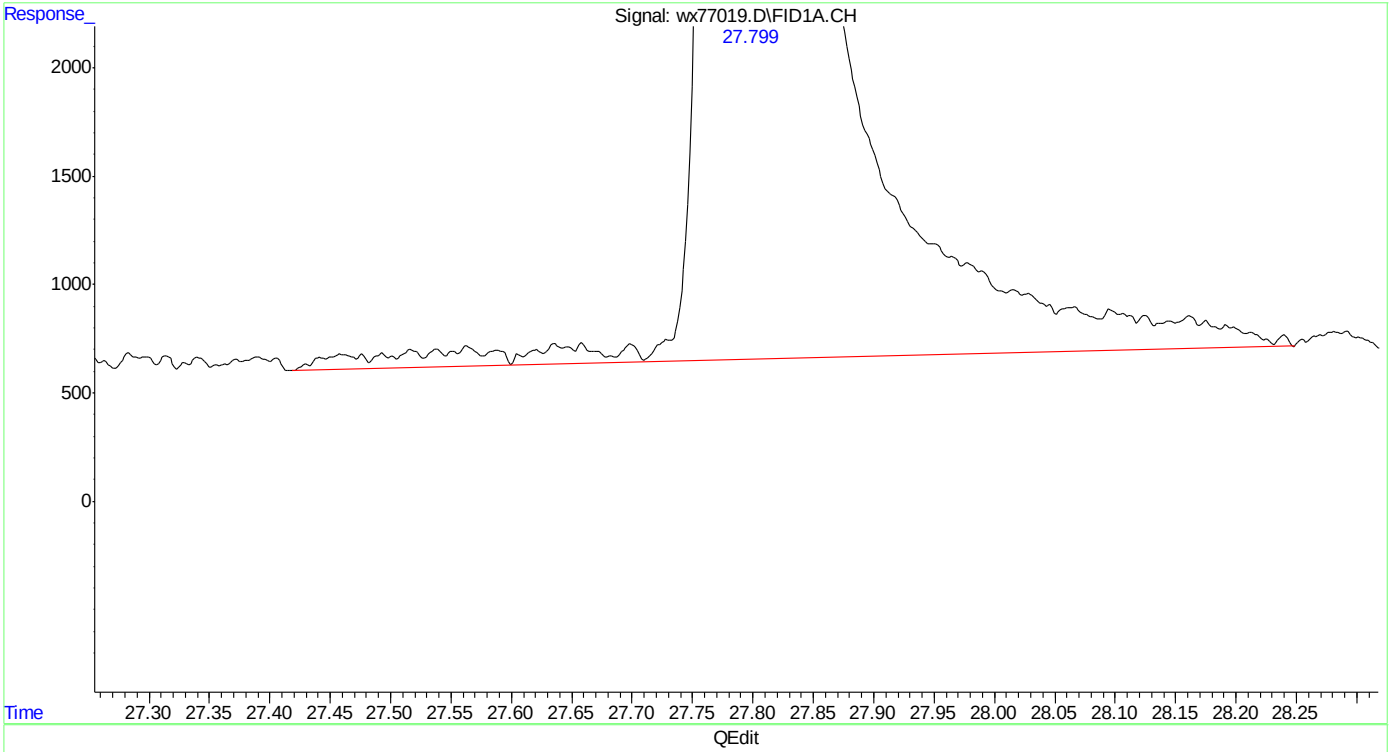
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 112.458 ppb
response 2143812

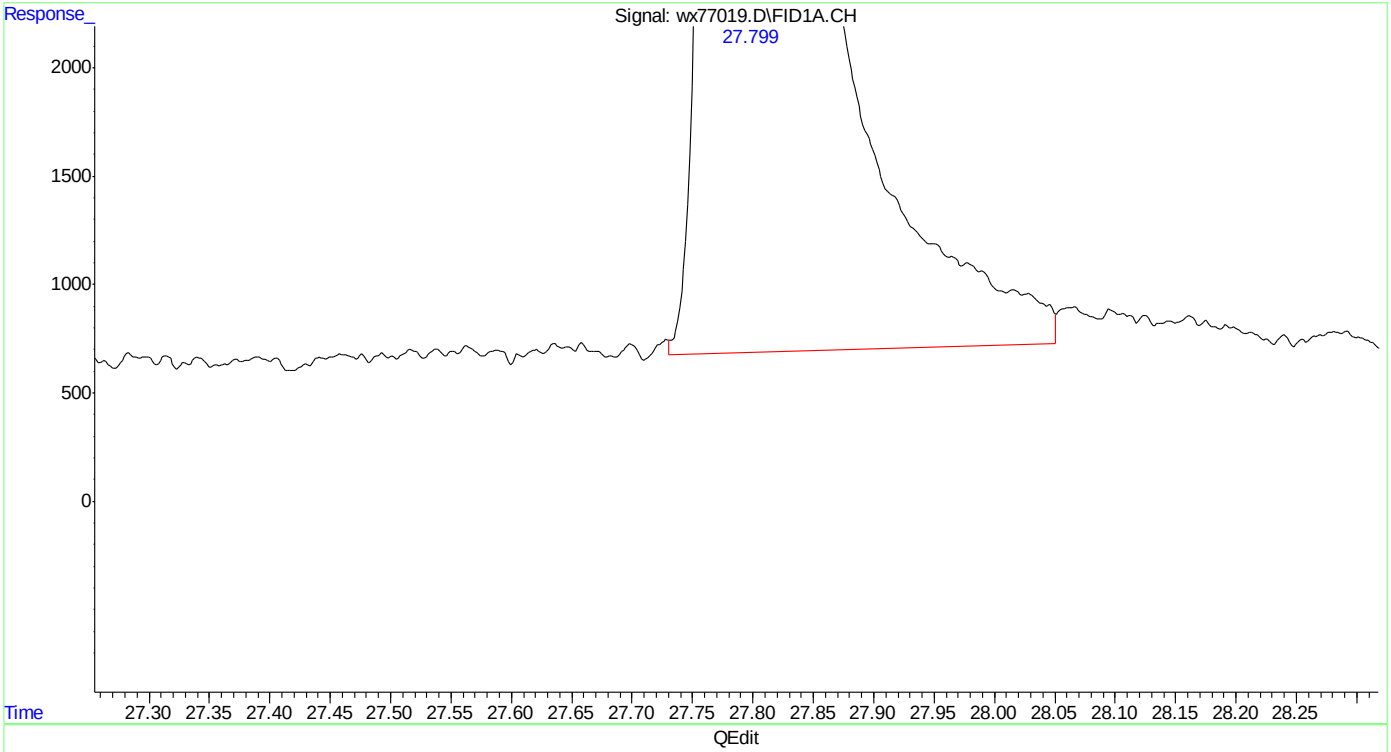
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:18 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   9:21 am
Operator  : tonyf
Sample    : ic3782-100,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.799min 110.860 ppb m

response 2113347

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 12:00:24 2016

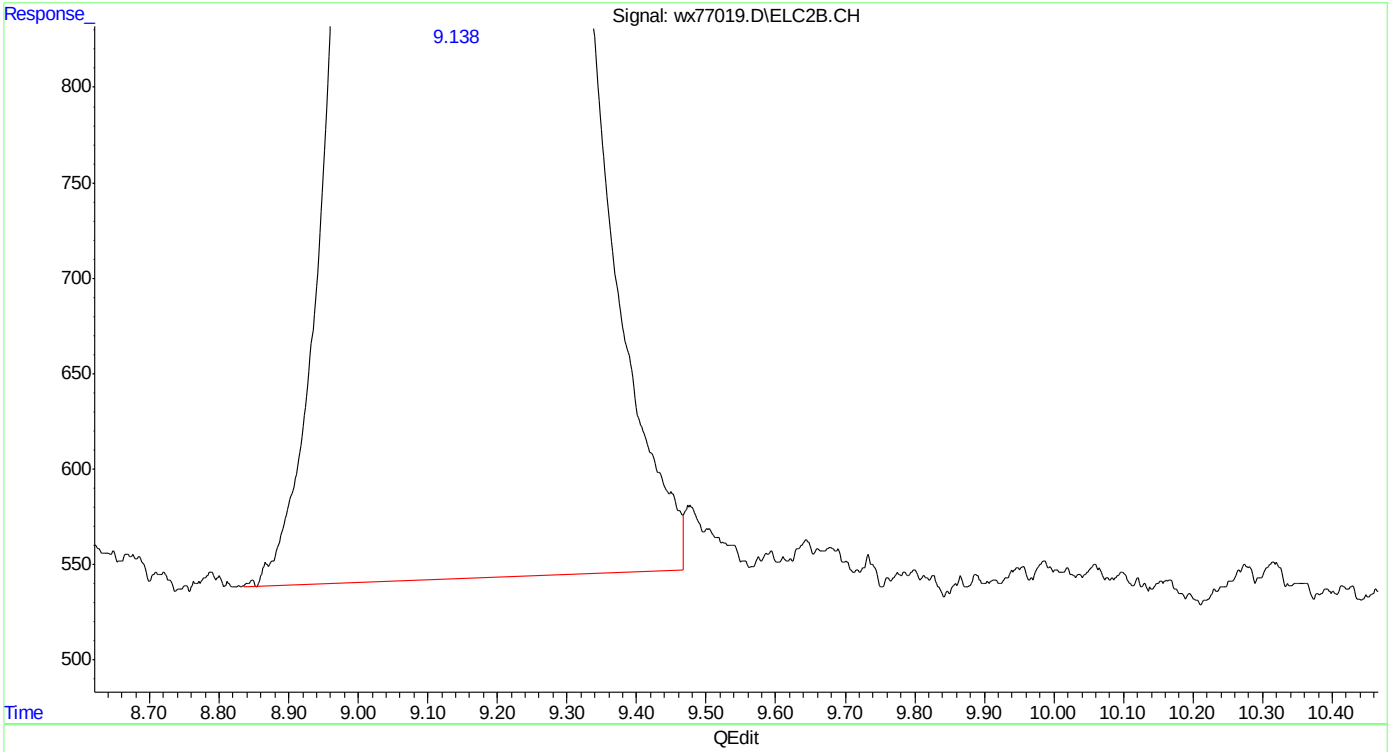
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.139min 93.591 ppb
response 423318

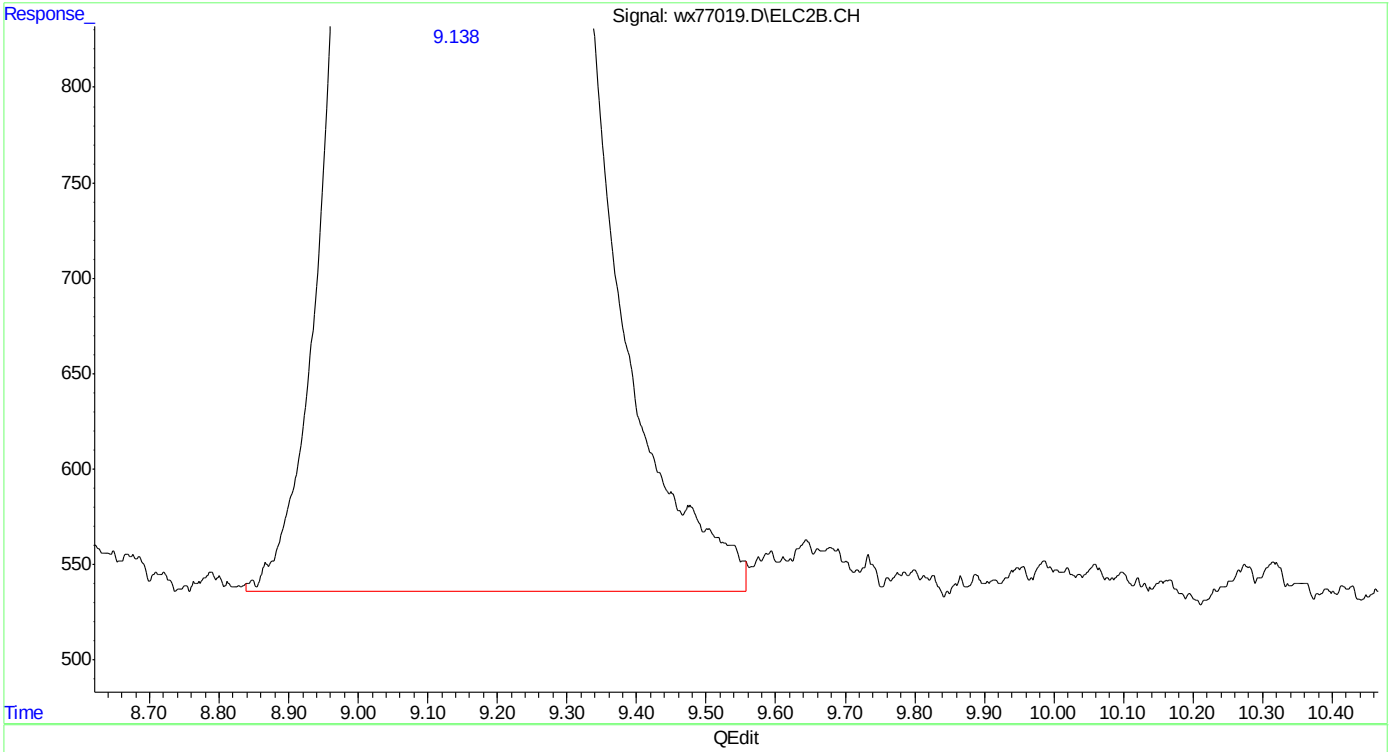
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:30 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.138min 94.513 ppb m
response 427488

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:35 2016

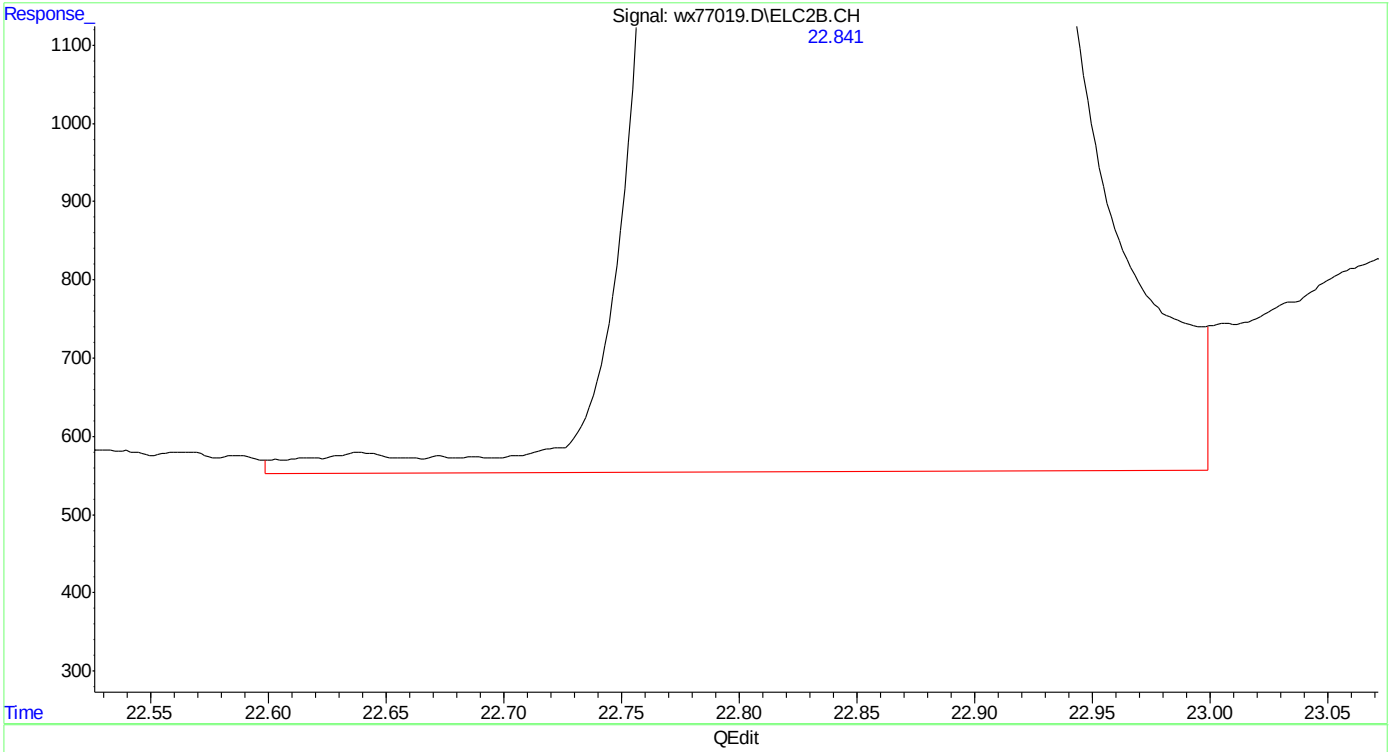
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.842min 98.599 ppb
response 1159117

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:00:52 2016

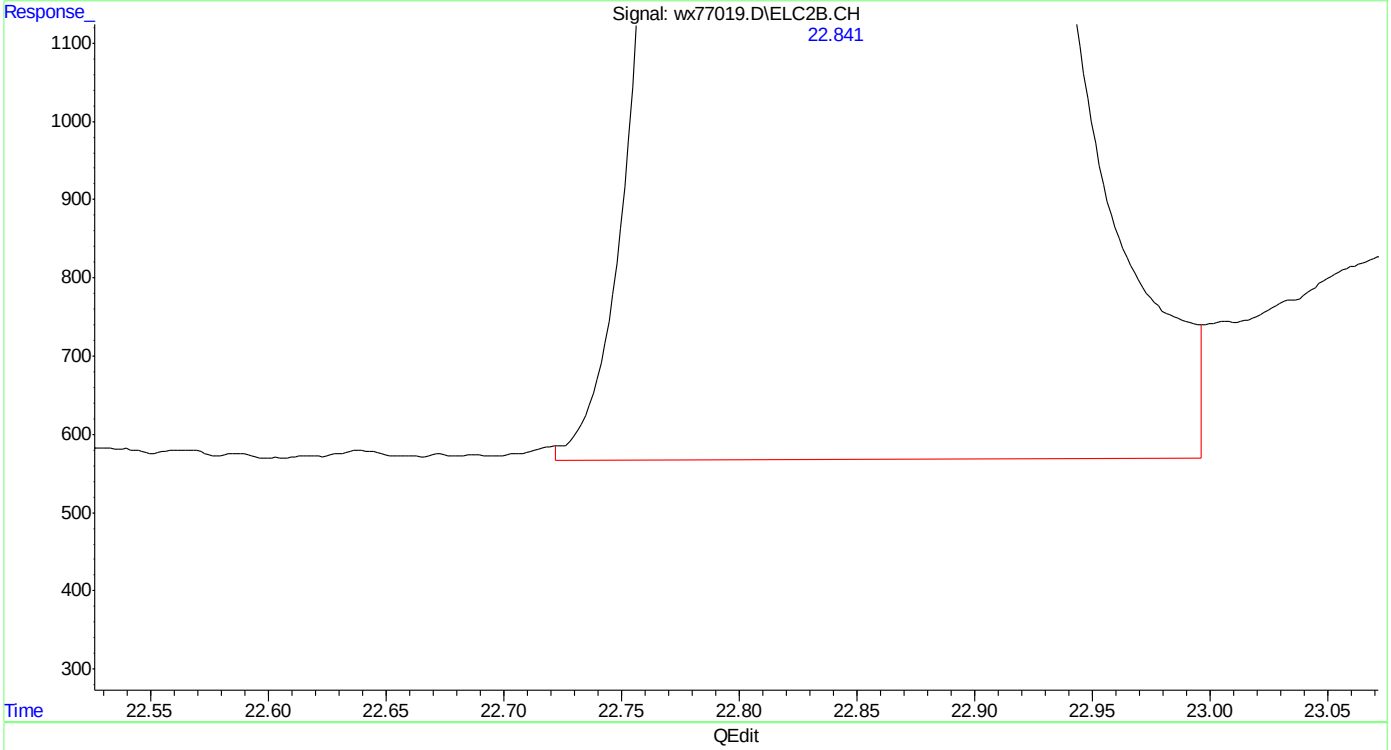
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.841min 98.238 ppb m
response 1154871

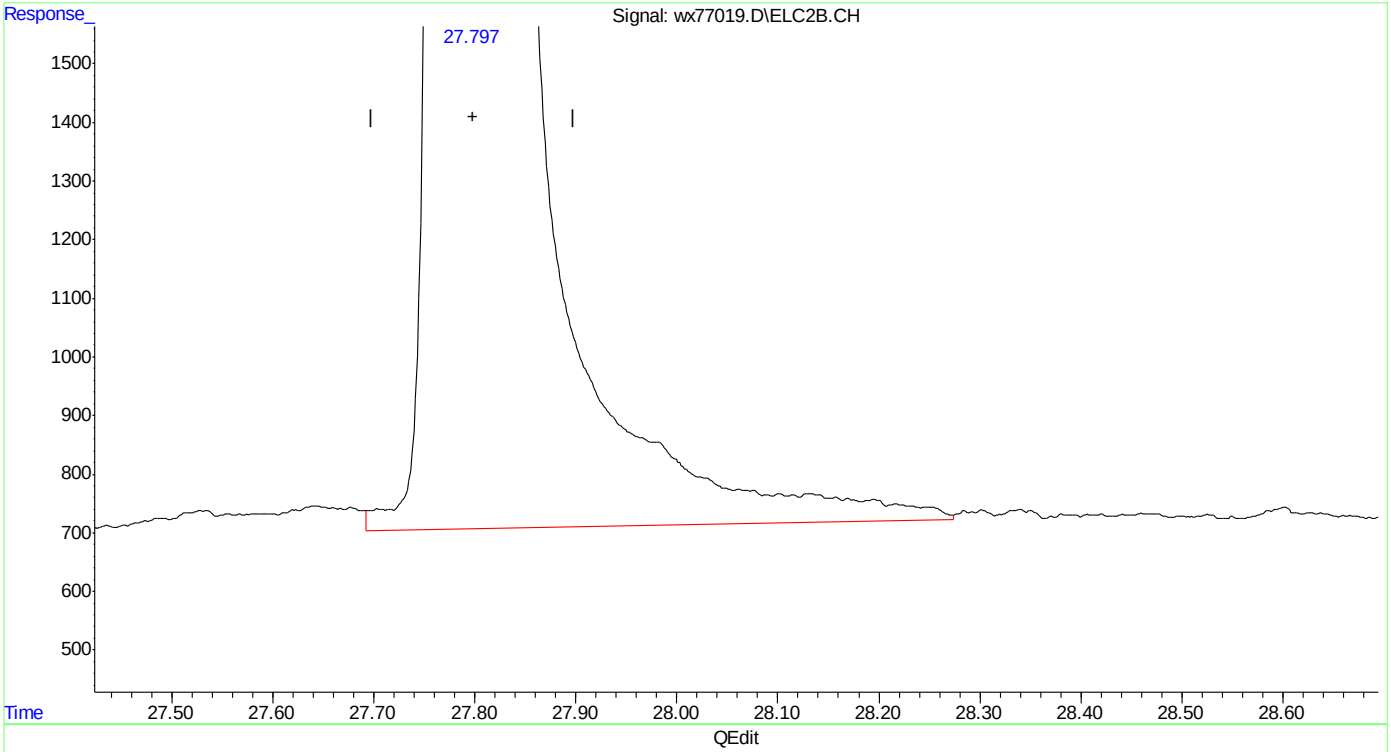
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 110.183 ppb
response 1074731

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:01:08 2016

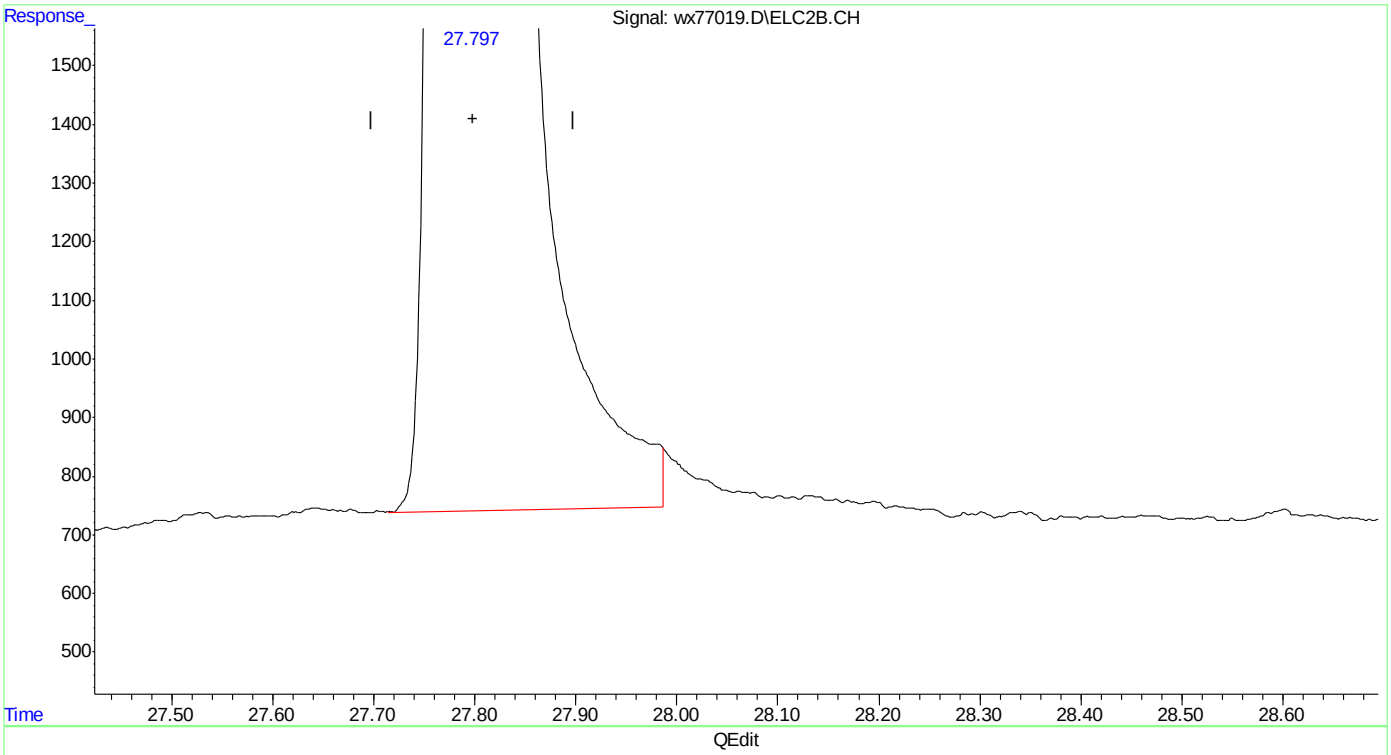
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77019.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:21 am
Operator : tonyf
Sample : ic3782-100,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:59:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:55:04 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 108.698 ppb m
response 1060250

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 12:01:15 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:42:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.746	1401700	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
9) s 2,3,4-trifluorotoluene	19.882	1134458	50.030	ppb	m
Spiked Amount 50.000		Recovery = 100.06%			
25) s fluorobenzene #2	14.746	451319	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
27) s 2,3,4-trifluorotoluen...	19.882	265152	50.000	ppb	
Spiked Amount 50.000		Recovery = 100.00%			
Target Compounds					
1) h rt5.5-7	6.100	1066222	50.058	ppb	
2) h rt7/10	8.370	1403769	50.081	ppb	
3) mtbe	9.149	640265	49.955	ppb	m
4) h rt10/13	13.510	1072962	50.093	ppb	
5) benzene	14.239	1756949	50.000	ppb	
8) toluene	18.748	1729012	50.000	ppb	
11) h rt20/25	21.600	1572016	50.012	ppb	
13) ethylbenzene	21.888	1710620	50.000	ppb	
14) m,p-xylene	22.037	3516981	100.000	ppb	
15) o-xylene	22.844	1737500	50.000	ppb	
16) h Decane	23.990	1592389	50.000	ppb	
17) t 1,3,5-trimethylbenzene	24.342	1832003	50.000	ppb	
18) 1,2,4-trimethylbenzene	24.871	1743092	50.000	ppb	
19) h Butylcyclohexane	25.040	1673218	50.000	ppb	
20) naphthalene	27.800	1067382	50.280	ppb	m
23) mtbe #2	9.135	221088	50.194	ppb	m
24) benzene #2	14.240	703739	50.000	ppb	
26) toluene #2	18.747	643875	50.000	ppb	
28) ethylbenzene #2	21.887	569086	50.000	ppb	
29) m,p-xylene #2	22.036	1386579	100.000	ppb	
30) o-xylene #2	22.844	582680	50.000	ppb	
31) t 1,3,5-trimethylbenzen...	24.342	851314	50.000	ppb	
32) 1,2,4-trimethylbenzen...	24.870	626793	50.000	ppb	
33) naphthalene #2	27.798	530646	50.058	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	626702	49.988	ppb	

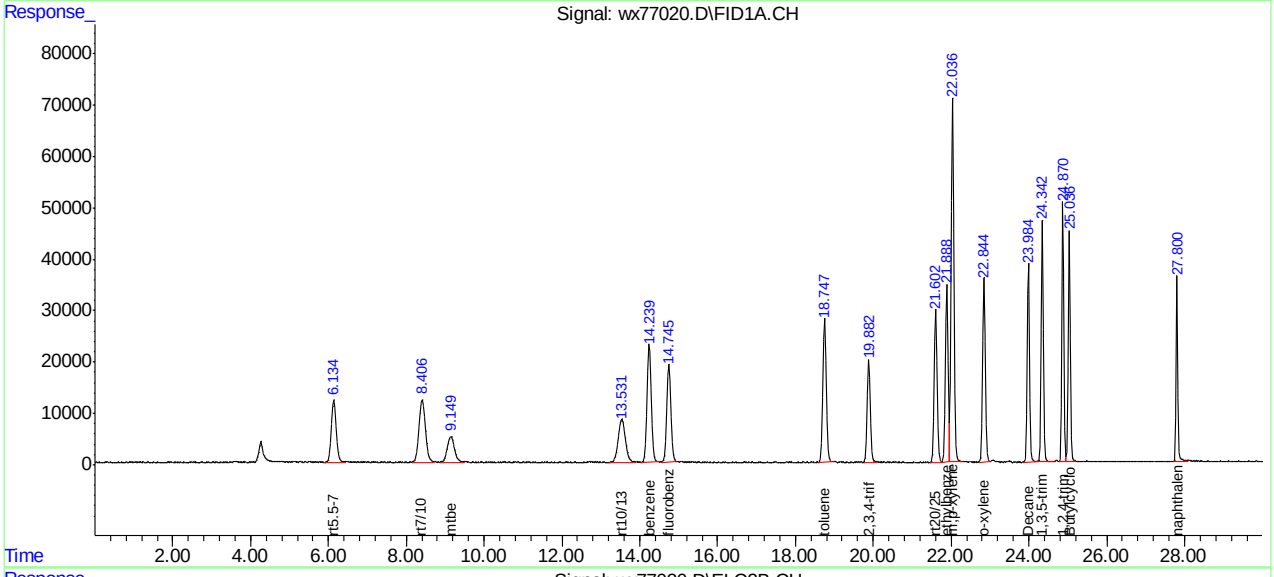
(f)=RT Delta > 1/2 Window (m)=manual int.

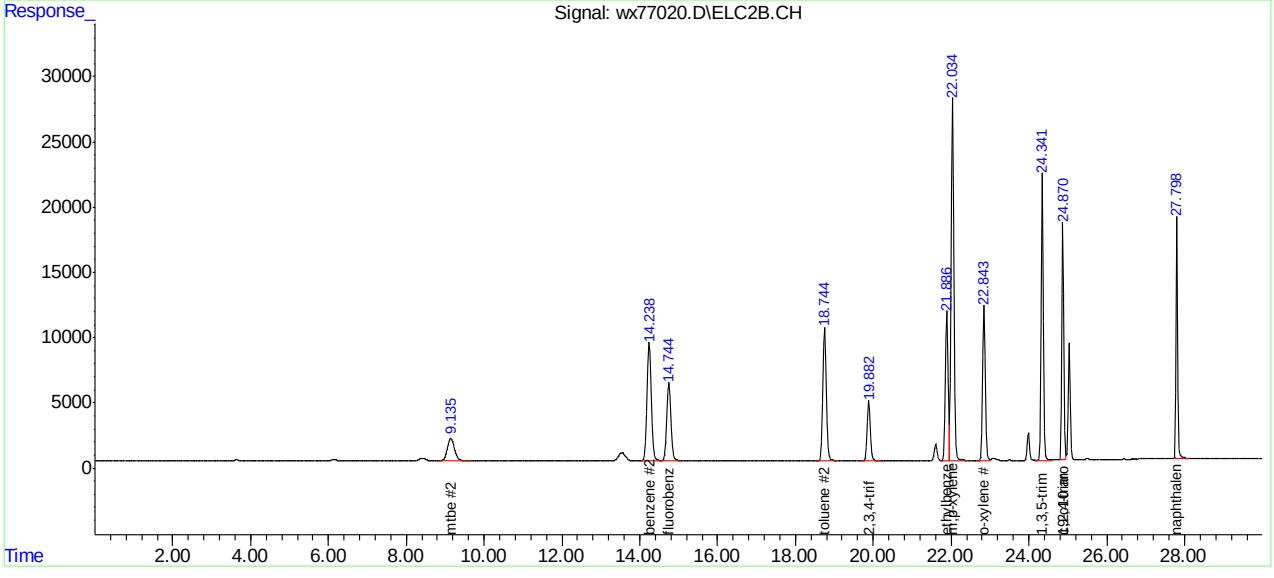
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:42:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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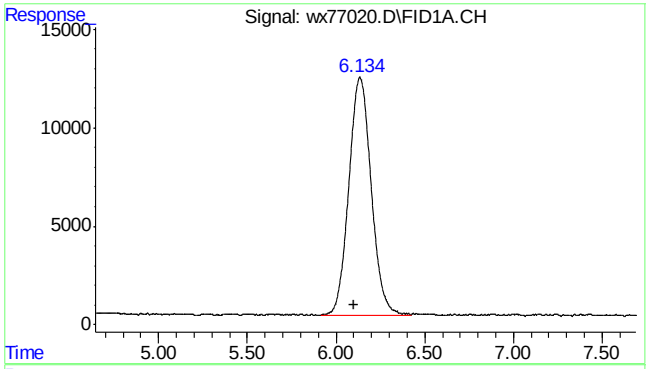
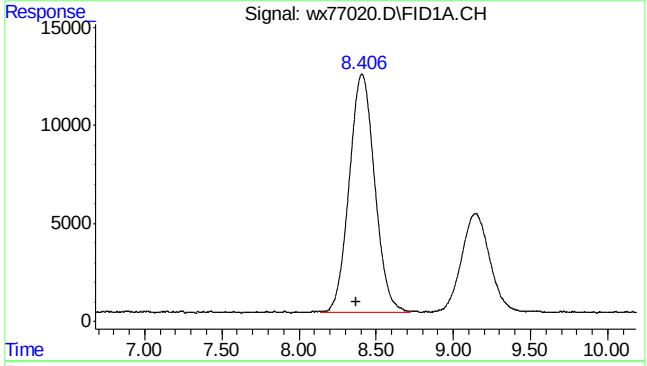


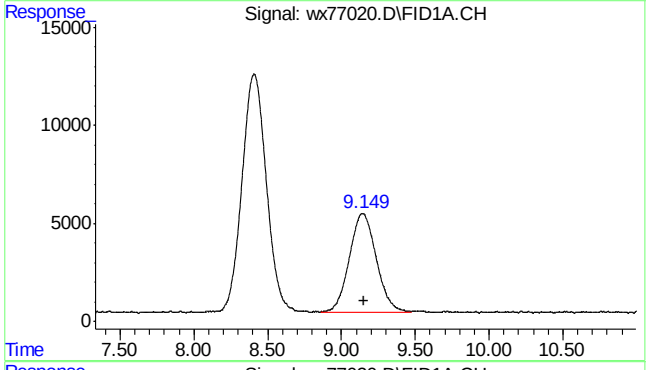
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1066222
Conc: 50.06 ppb m



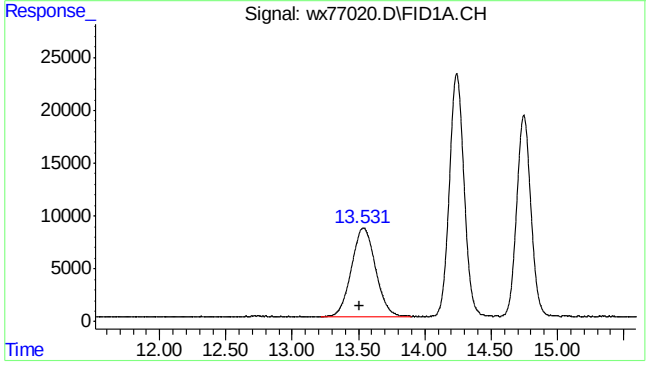
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1403769
Conc: 50.08 ppb m



#3 mtbe

R.T.: 9.149 min
Delta R.T.: 0.000 min
Response: 640265
Conc: 49.95 ppb m



#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1072962
Conc: 50.09 ppb m

7.5.5

7

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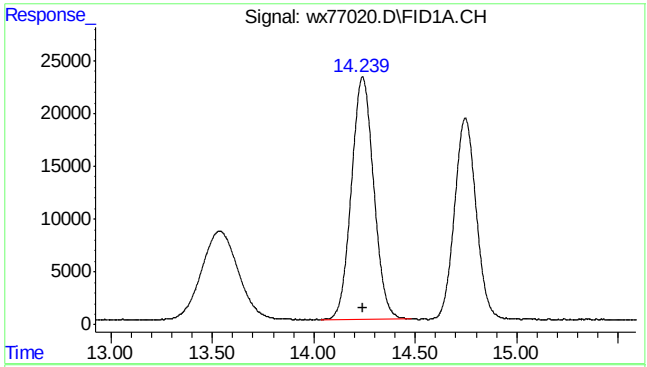
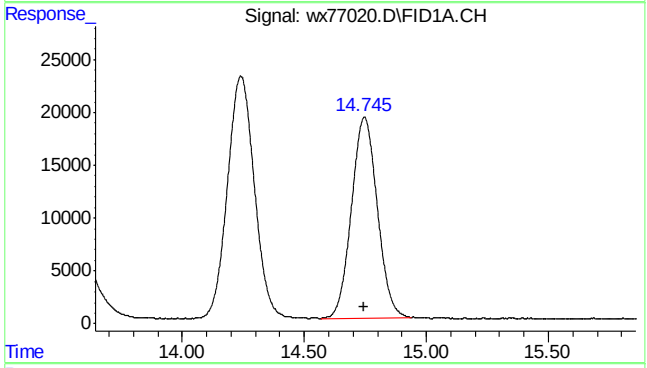


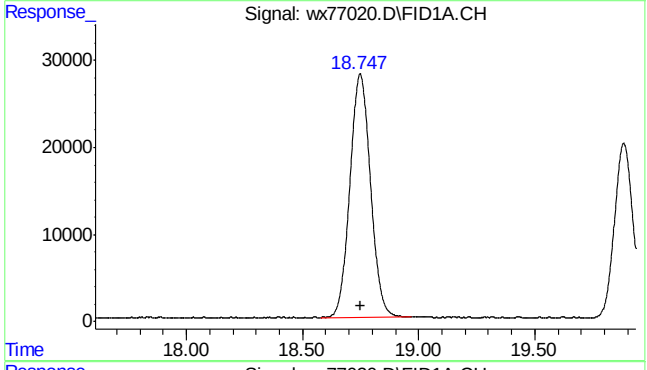
#5 benzene

R.T.: 14.239 min
Delta R.T.: 0.000 min
Response: 1756949
Conc: 50.00 ppb



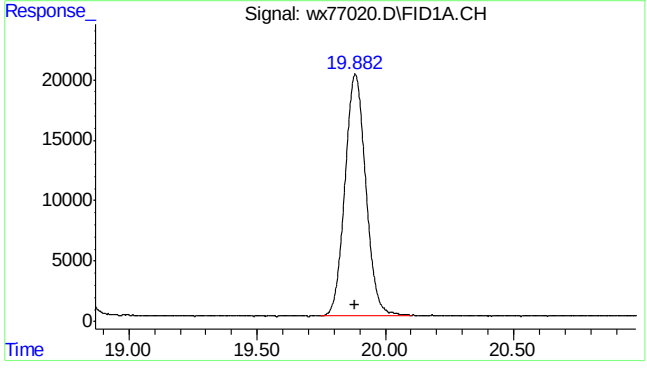
#6 fluorobenzene

R.T.: 14.746 min
Delta R.T.: 0.000 min
Response: 1401700
Conc: 50.00 ppb



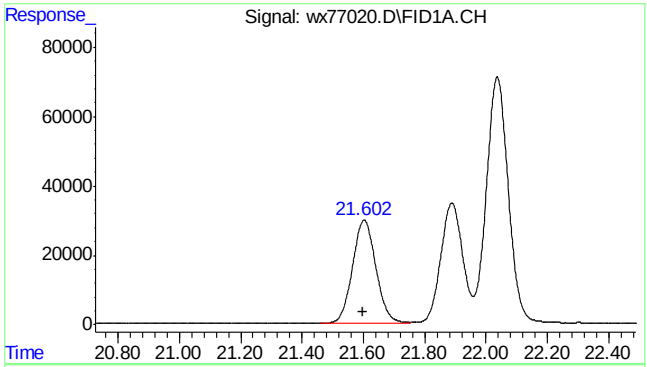
#8 toluene

R.T.: 18.748 min
Delta R.T.: 0.000 min
Response: 1729012
Conc: 50.00 ppb



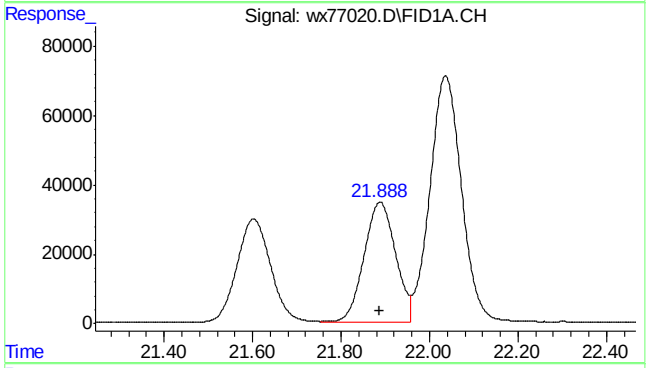
#9 2,3,4-trifluorotoluene

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 1134458
Conc: 50.03 ppb m



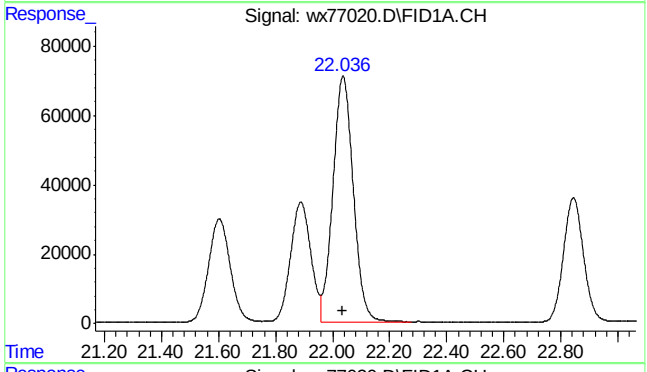
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1572016
Conc: 50.01 ppb m



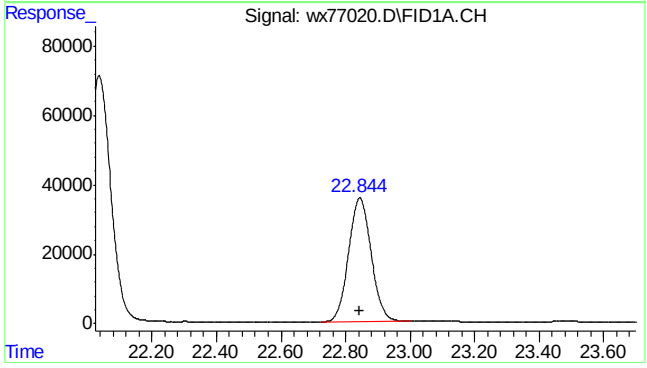
#13 ethylbenzene

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 1710620
Conc: 50.00 ppb



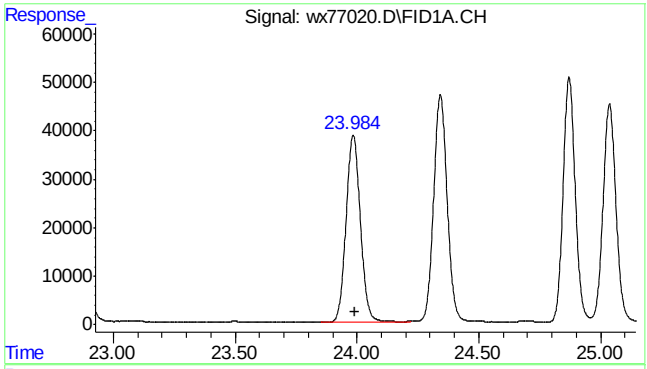
#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.000 min
Response: 3516981
Conc: 100.00 ppb



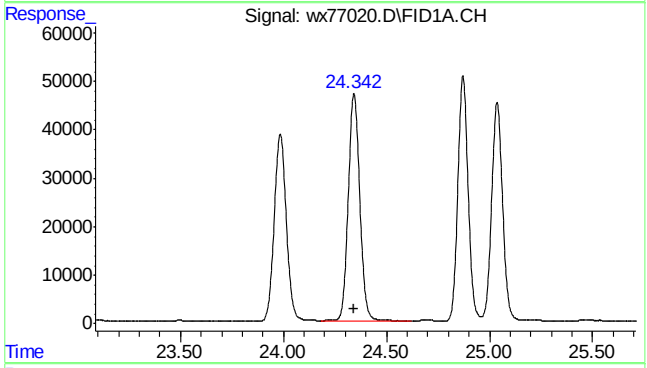
#15 o-xylene

R.T.: 22.844 min
Delta R.T.: 0.000 min
Response: 1737500
Conc: 50.00 ppb



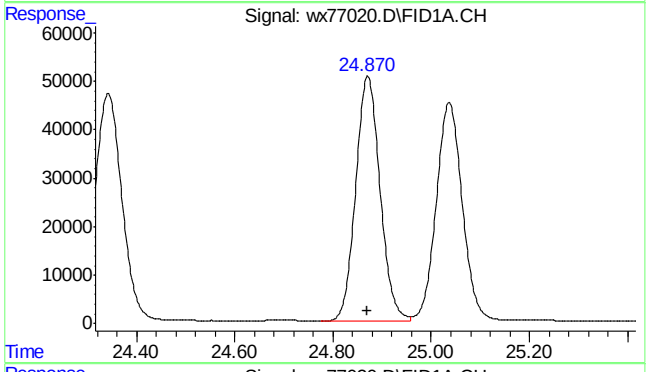
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1592389
Conc: 50.00 ppb m



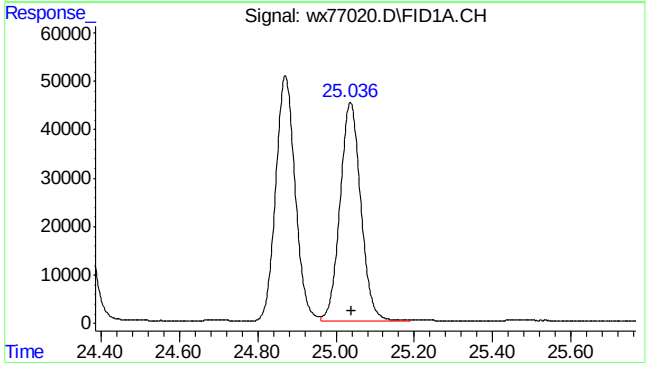
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 1832003
Conc: 50.00 ppb



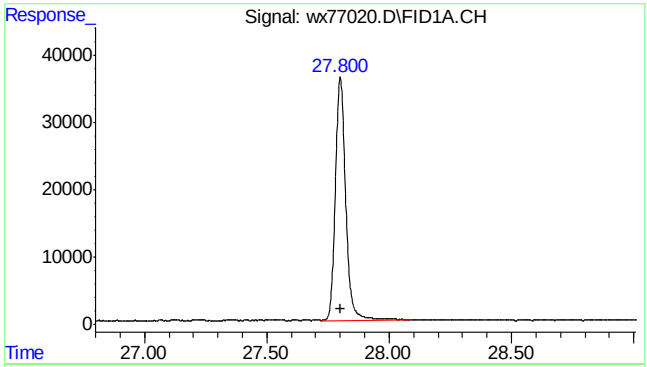
#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 1743092
Conc: 50.00 ppb



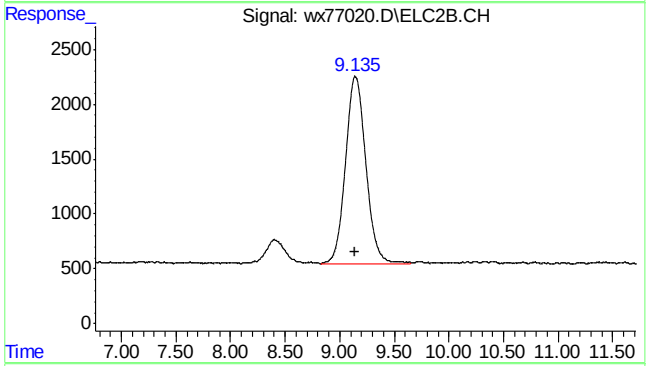
#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1673218
Conc: 50.00 ppb m



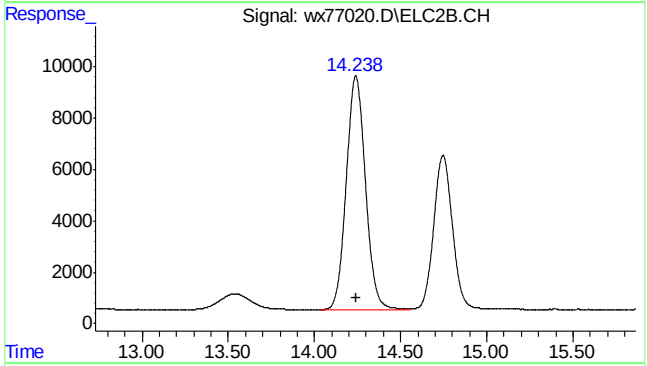
#20 naphthalene

R.T.: 27.800 min
Delta R.T.: 0.000 min
Response: 1067382
Conc: 50.28 ppb m



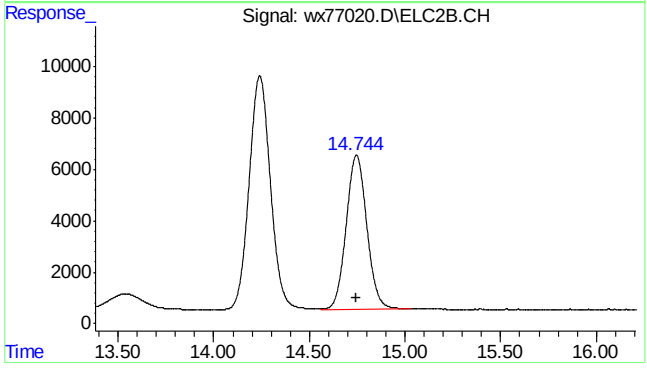
#23 mtbe #2

R.T.: 9.135 min
Delta R.T.: 0.000 min
Response: 221088
Conc: 50.19 ppb m



#24 benzene #2

R.T.: 14.240 min
Delta R.T.: 0.000 min
Response: 703739
Conc: 50.00 ppb



#25 fluorobenzene #2

R.T.: 14.746 min
Delta R.T.: 0.000 min
Response: 451319
Conc: 50.00 ppb

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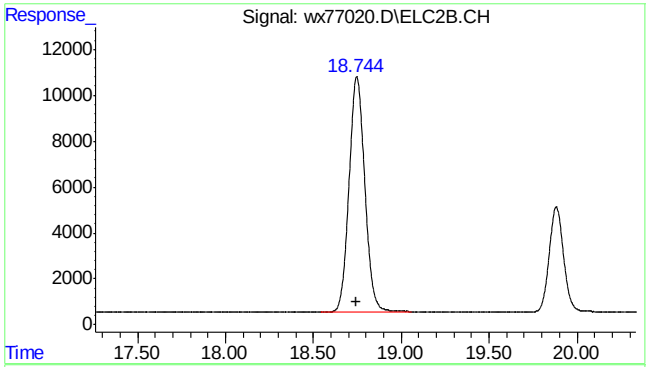
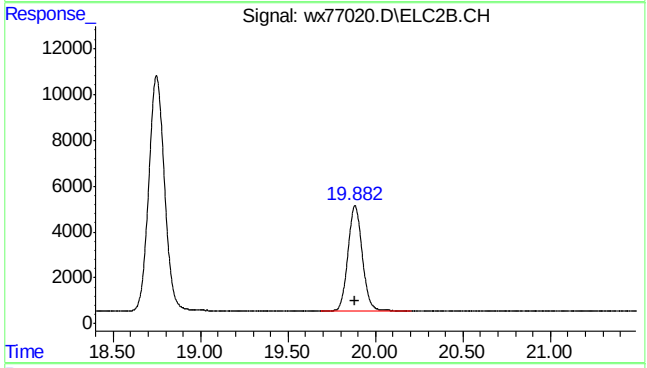


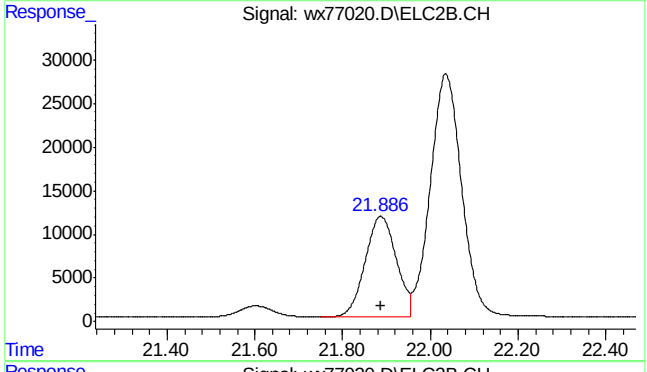
#26 toluene #2

R.T.: 18.747 min
Delta R.T.: 0.000 min
Response: 643875
Conc: 50.00 ppb



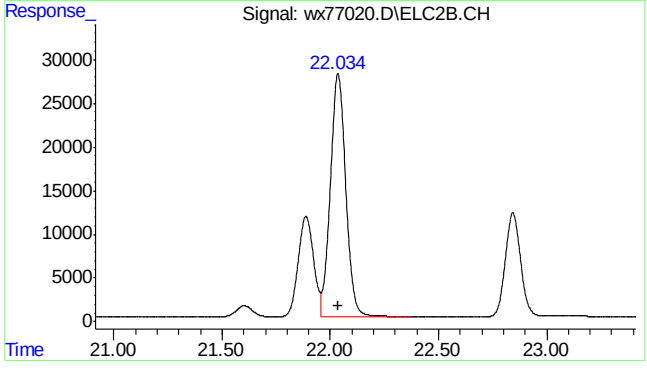
#27 2,3,4-trifluorotoluene #2

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 265152
Conc: 50.00 ppb



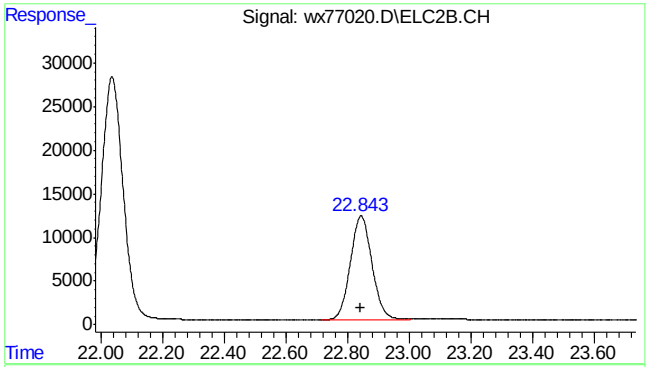
#28 ethylbenzene #2

R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 569086
Conc: 50.00 ppb



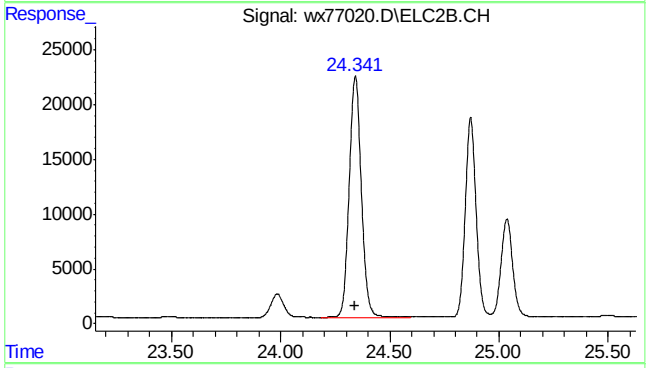
#29 m,p-xylene #2

R.T.: 22.036 min
Delta R.T.: 0.000 min
Response: 1386579
Conc: 100.00 ppb



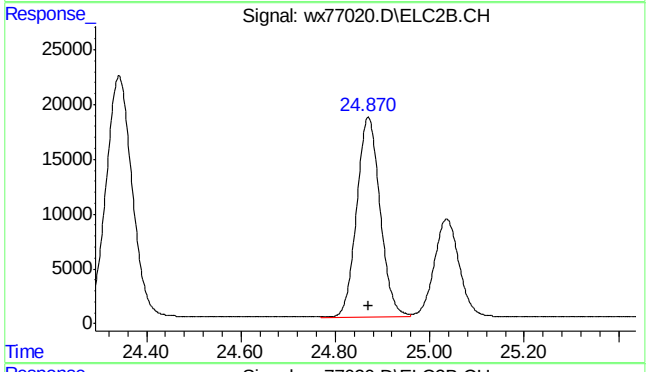
#30 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.000 min
Response: 582680
Conc: 50.00 ppb



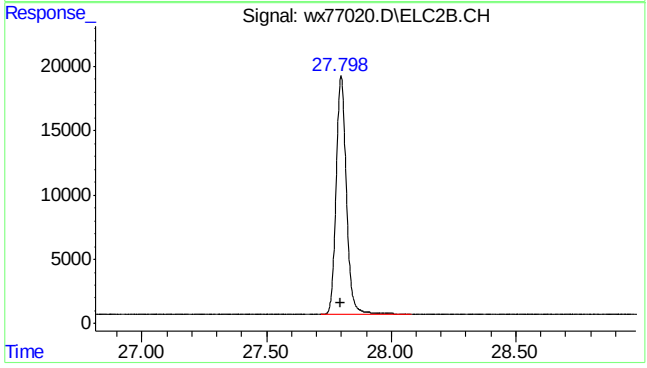
#31 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 851314
Conc: 50.00 ppb



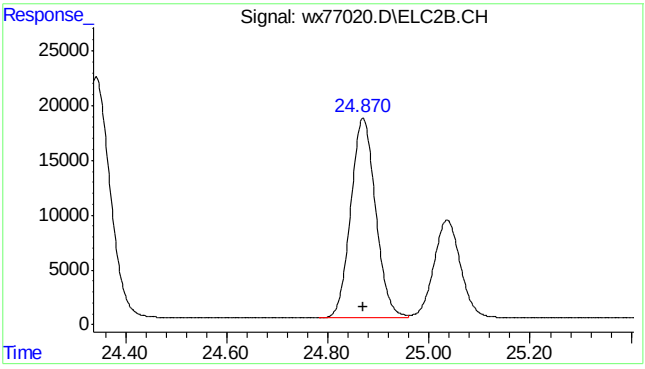
#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 626793
Conc: 50.00 ppb



#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 530646
Conc: 50.06 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 626702
Conc: 49.99 ppb m

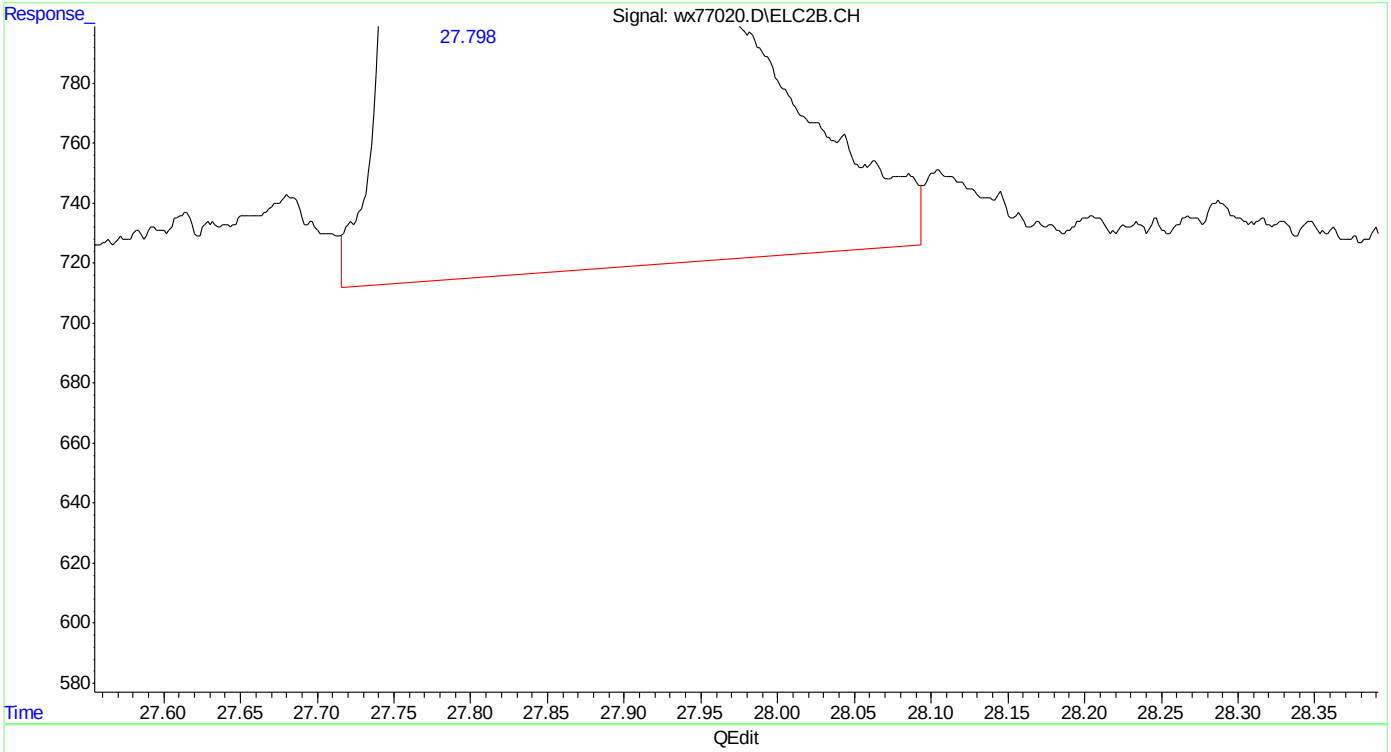
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 50.312 ppb
response 533334

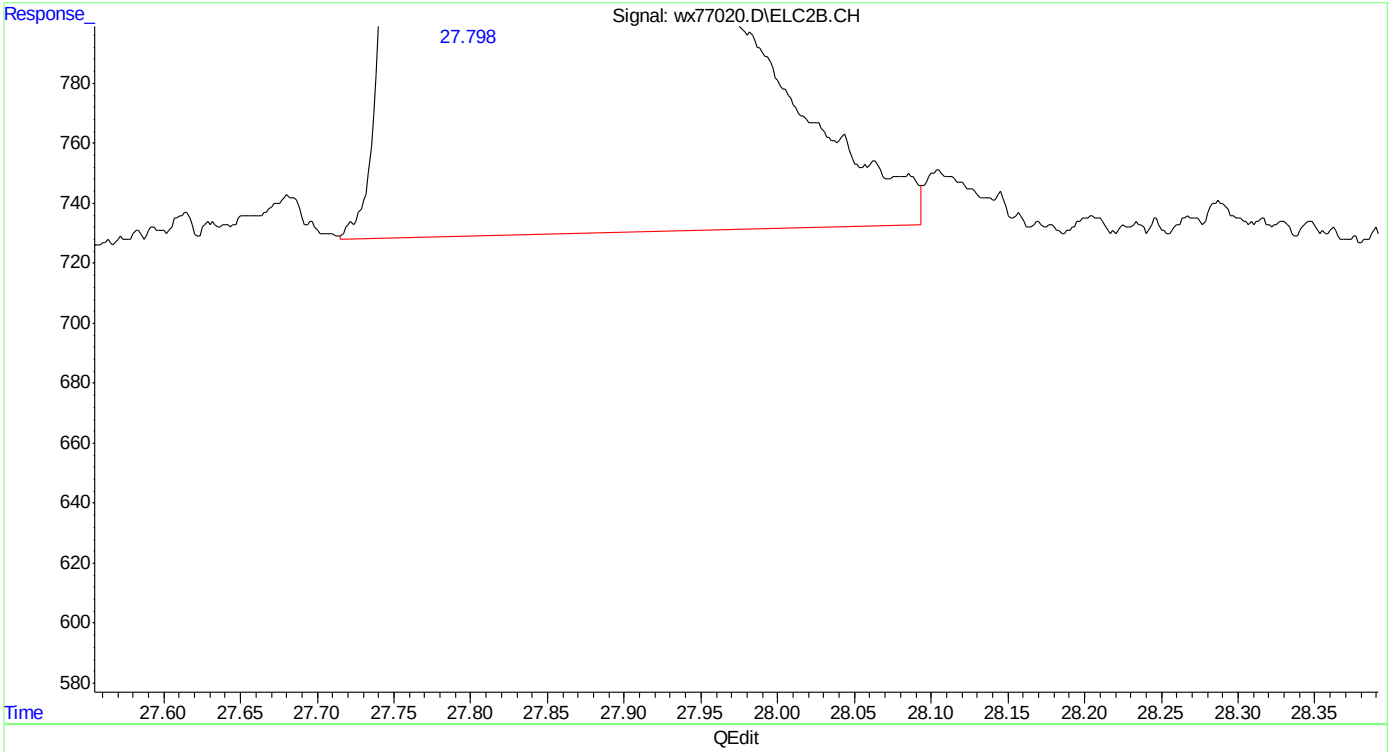
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:39:33 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 50.076 ppb m
response 530831

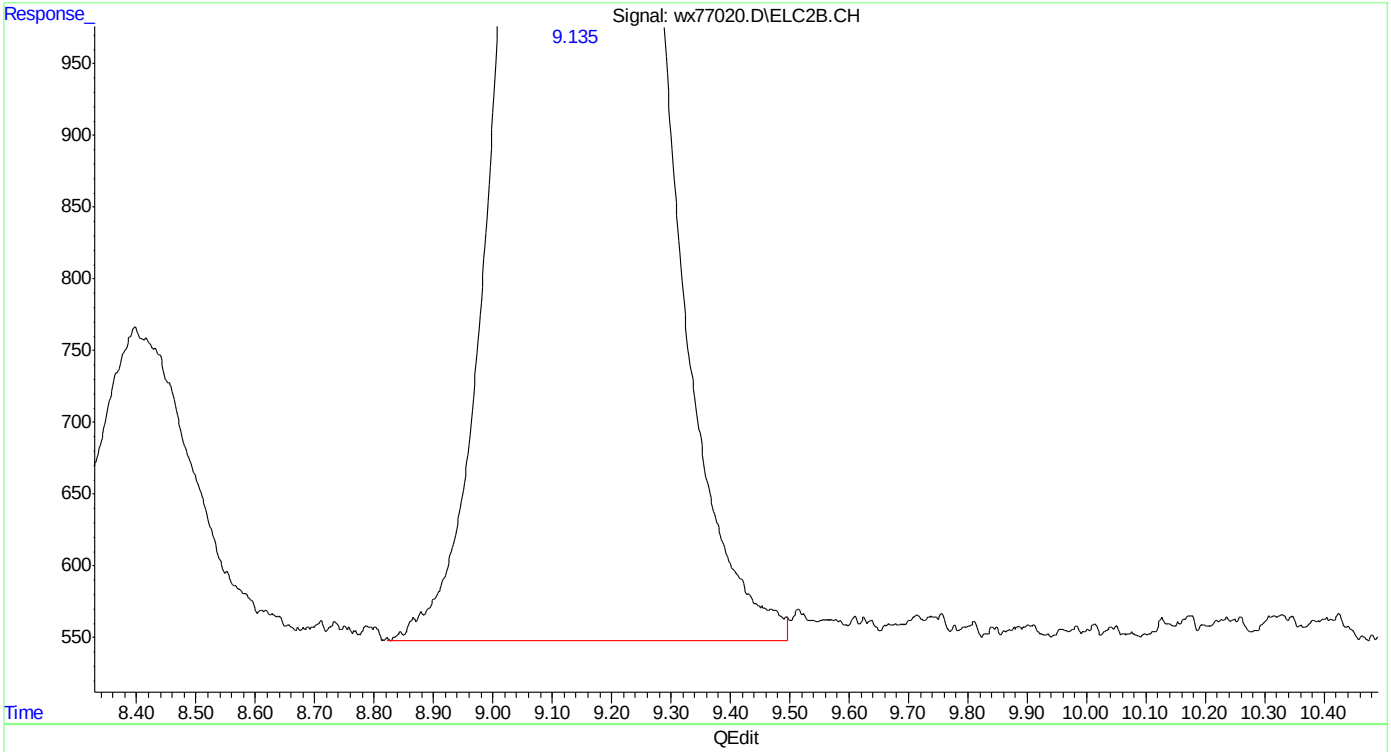
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:37:27 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.135min 49.898 ppb m
response 219787

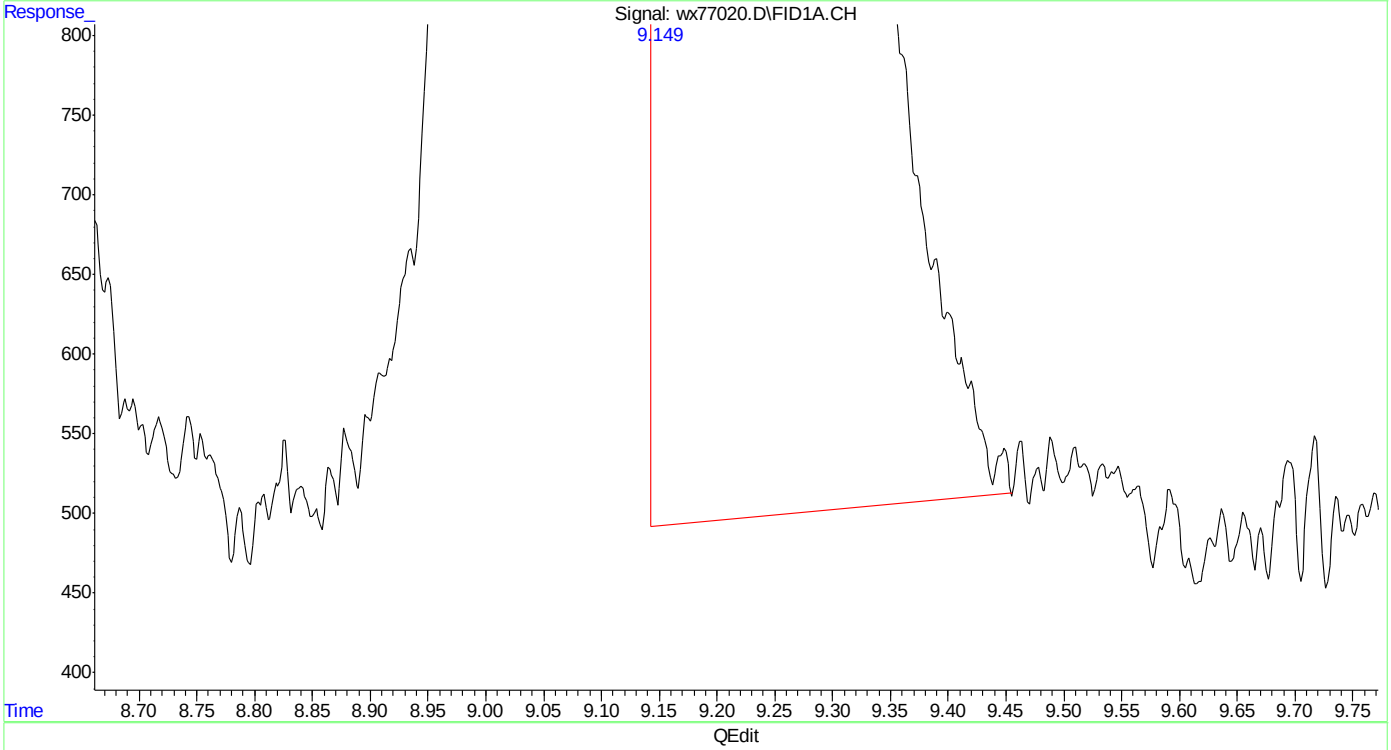
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:39:48 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.150min 25.516 ppb
response 327031

(+) = Expected Retention Time

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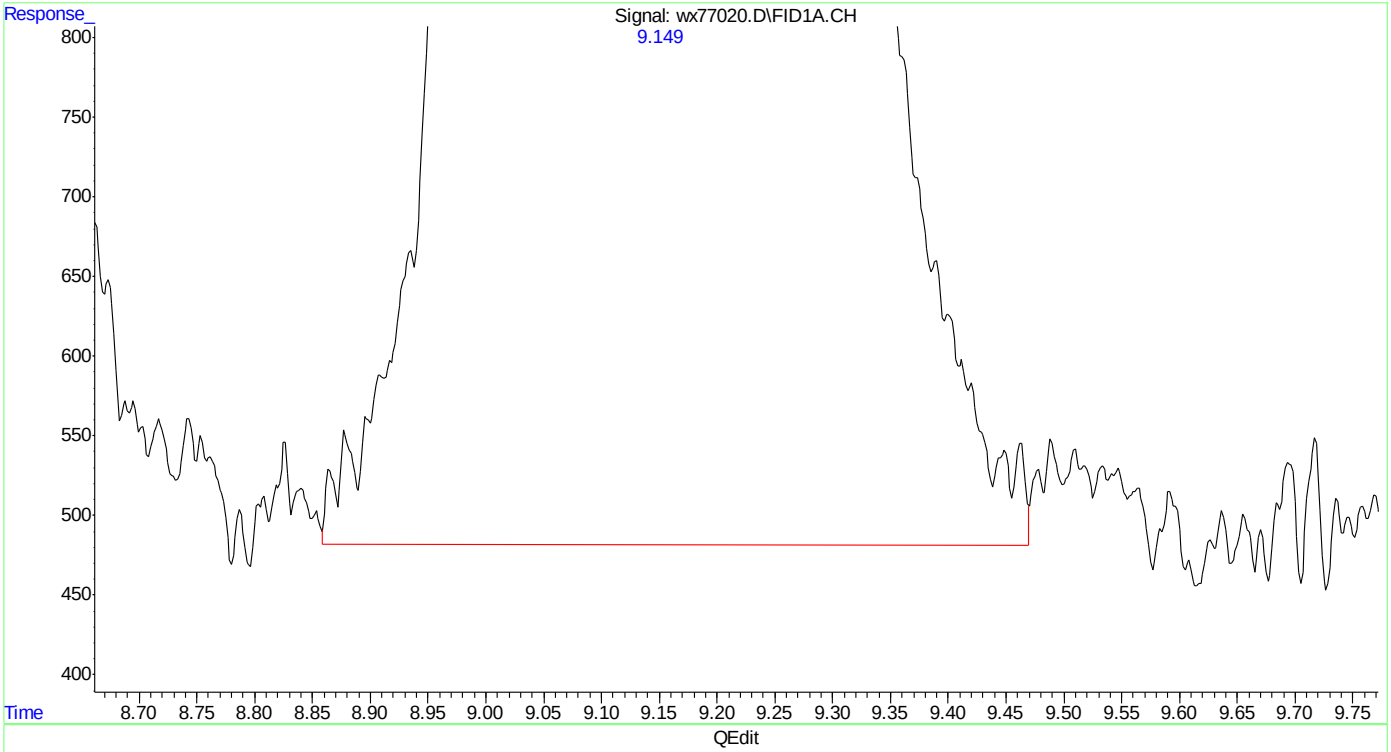
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.149min 49.955 ppb m
response 640265

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:40:48 2016

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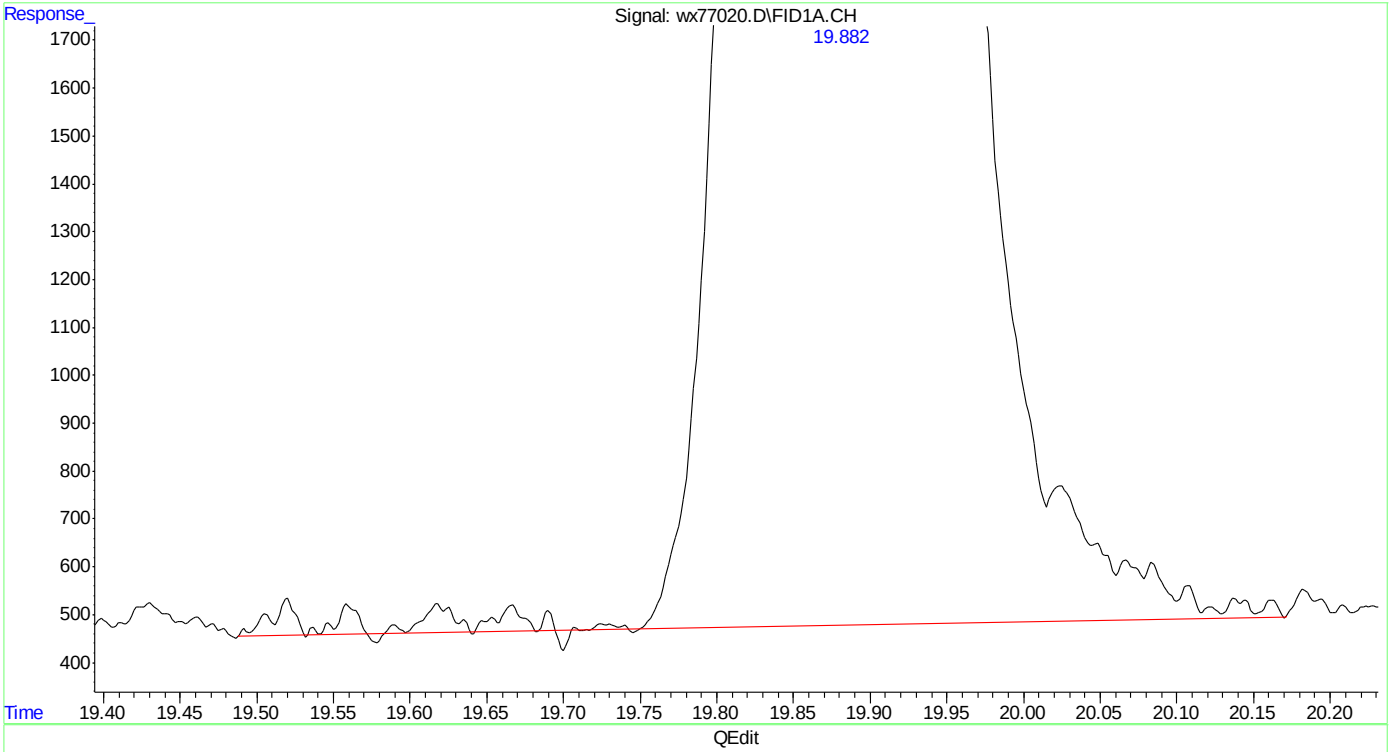
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 49.993 ppb
response 1133639

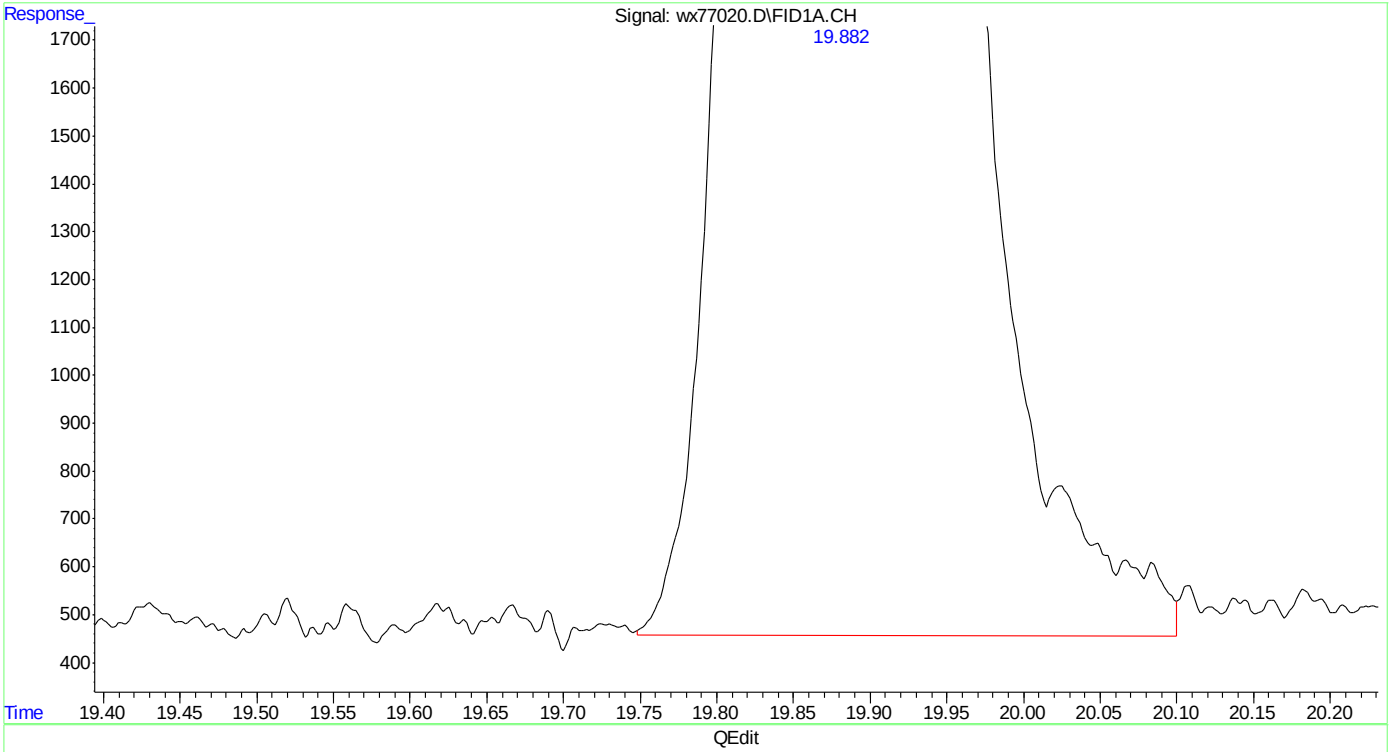
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.882min 50.030 ppb m
response 1134458

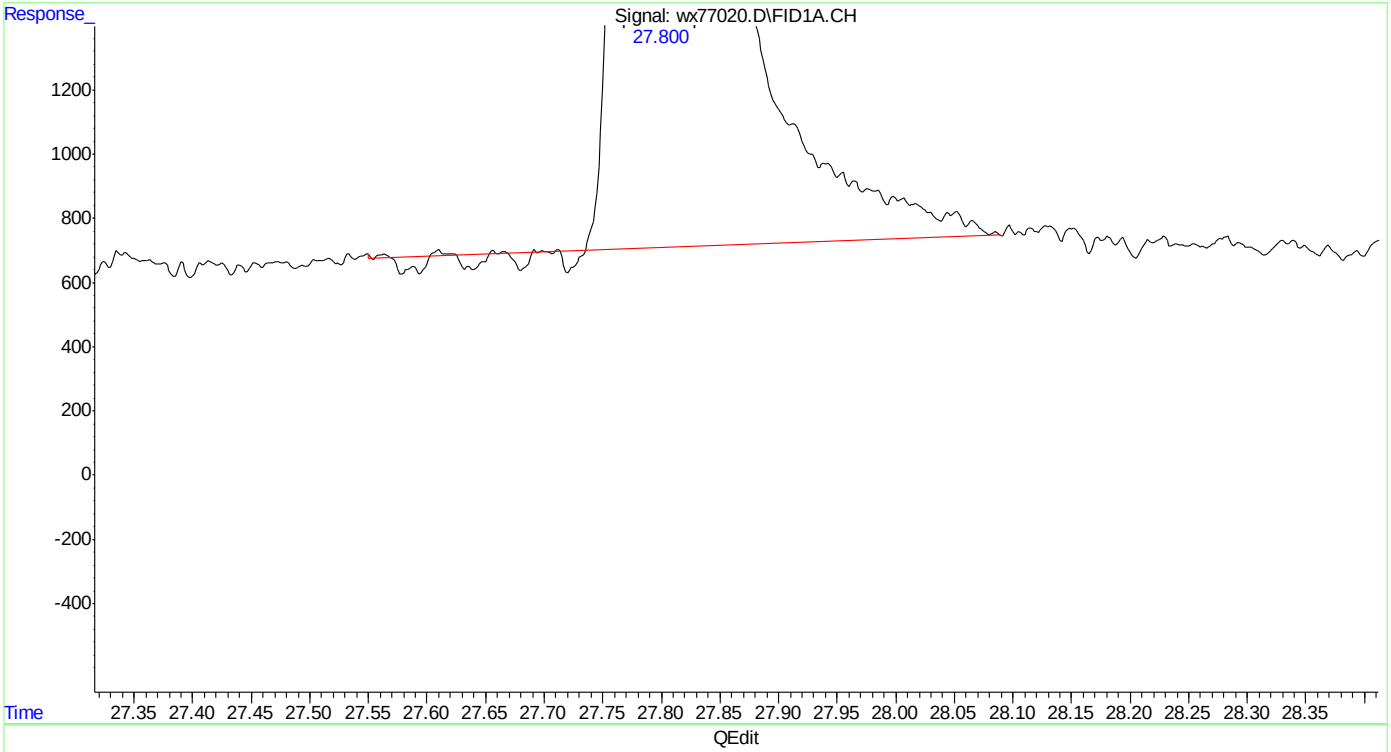
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.801min 49.480 ppb
response 1050404

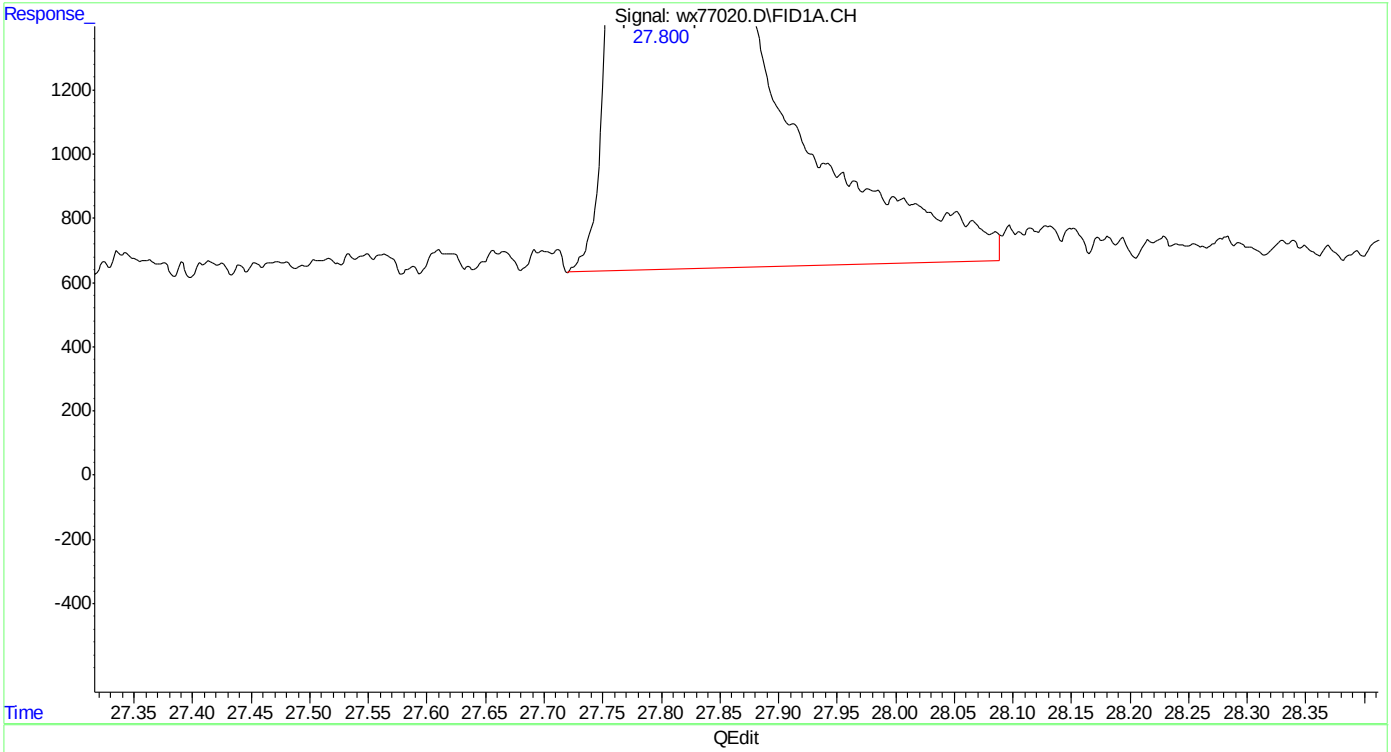
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 50.280 ppb m
response 1067382

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:44 2016

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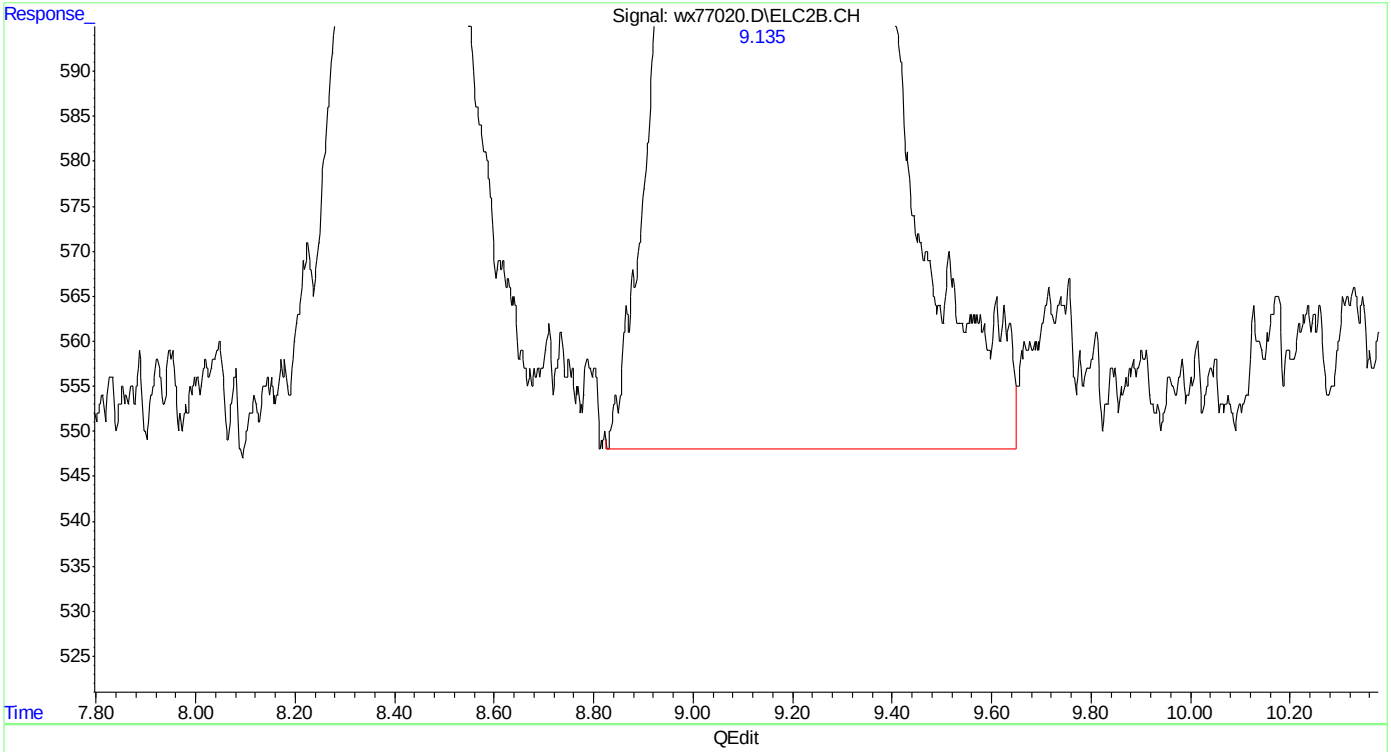
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.135min 50.194 ppb m
response 221088

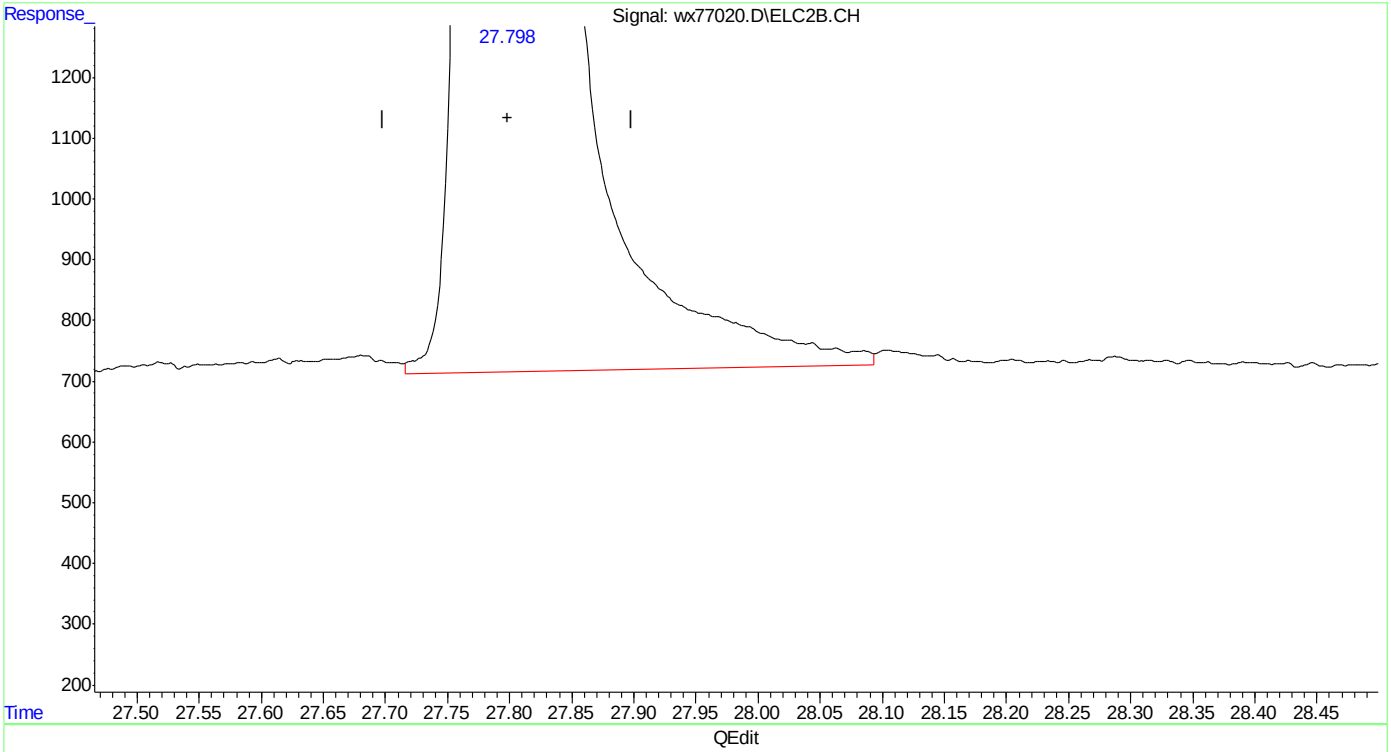
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:41:56 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 9:59 am
Operator : tonyf
Sample : icc3782-50,gv16401
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 5 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 50.312 ppb
response 533334

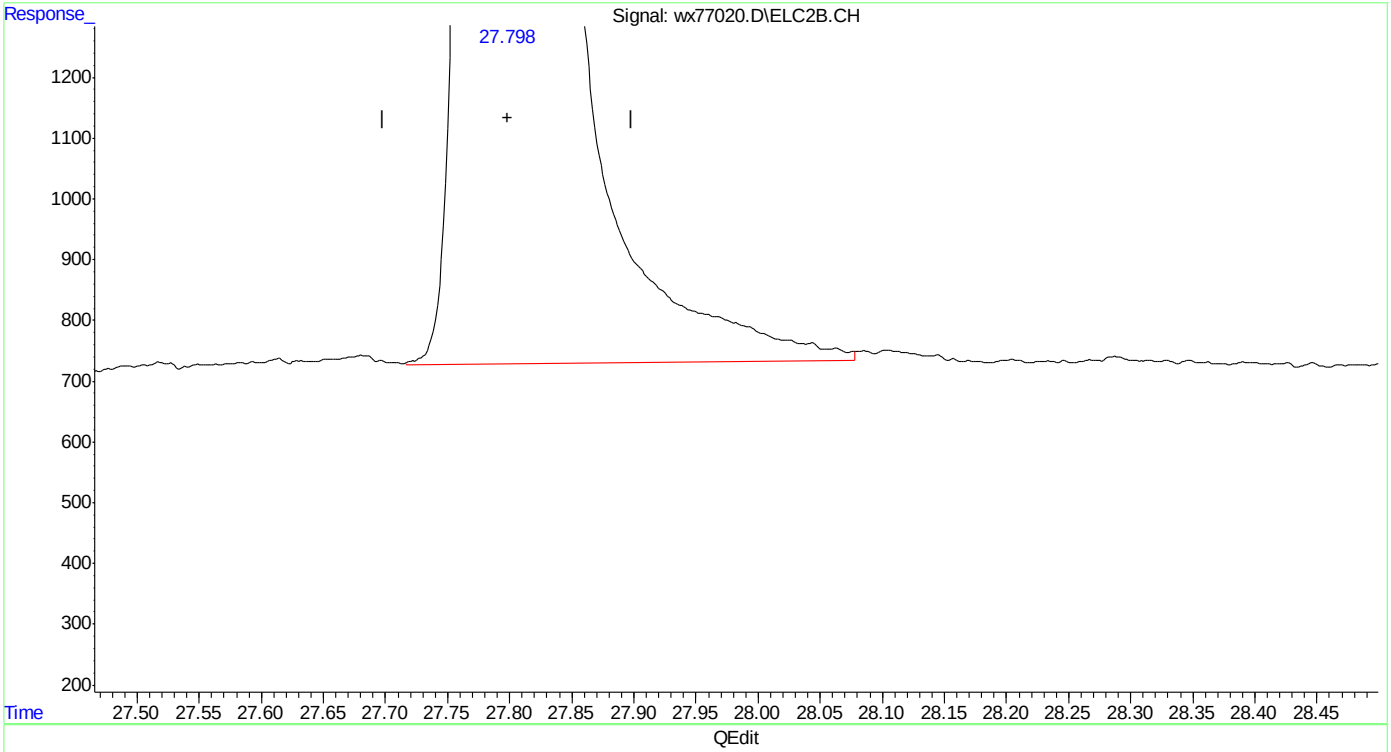
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77020.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   9:59 am
Operator  : tonyf
Sample    : icc3782-50,gv16401
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 5   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:40:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 11:37:18 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2

27.798min 50.058 ppb m

response 530646

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 11:42:13 2016 Page: 1

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:48:01 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.745	280296	9.998	ppb	
Spiked Amount 50.000		Recovery = 20.00%			
9) s 2,3,4-trifluorotoluene	19.883	224739	9.905	ppb	
Spiked Amount 50.000		Recovery = 19.81%			
25) s fluorobenzene #2	14.745	90173	9.990	ppb	
Spiked Amount 50.000		Recovery = 19.98%			
27) s 2,3,4-trifluorotoluen...	19.879	53267	10.045	ppb	m
Spiked Amount 50.000		Recovery = 20.09%			
Target Compounds					
1) h rt5.5-7	6.100	236774	11.103	ppb	
2) h rt7/10	8.370	303053	10.794	ppb	
3) mtbe	9.147	137995	10.776	ppb	m
4) h rt10/13	13.510	285251	13.293	ppb	
5) benzene	14.238	360503	10.259	ppb	
8) toluene	18.749	354162	10.242	ppb	
11) h rt20/25	21.600	360524	11.467	ppb	
13) ethylbenzene	21.888	350442	10.243	ppb	
14) m,p-xylene	22.036	719678	20.463	ppb	
15) o-xylene	22.843	356798	10.268	ppb	m
16) h Decane	23.990	381152	11.968	ppb	
17) t 1,3,5-trimethylbenzene	24.342	374857	10.231	ppb	
18) 1,2,4-trimethylbenzene	24.871	364500	10.456	ppb	
19) h Butylcyclohexane	25.040	390458	11.668	ppb	
20) naphthalene	27.800	188796	8.844	ppb	m
23) mtbe #2	9.152	45370	10.261	ppb	m
24) benzene #2	14.239	143790	10.216	ppb	
26) toluene #2	18.746	129315	10.042	ppb	m
28) ethylbenzene #2	21.887	115115	10.114	ppb	
29) m,p-xylene #2	22.035	282507	20.374	ppb	
30) o-xylene #2	22.843	118283	10.150	ppb	m
31) t 1,3,5-trimethylbenzen...	24.341	174798	10.266	ppb	
32) 1,2,4-trimethylbenzen...	24.869	128926	10.285	ppb	m
33) naphthalene #2	27.798	97572	9.194	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	128820	10.278	ppb	

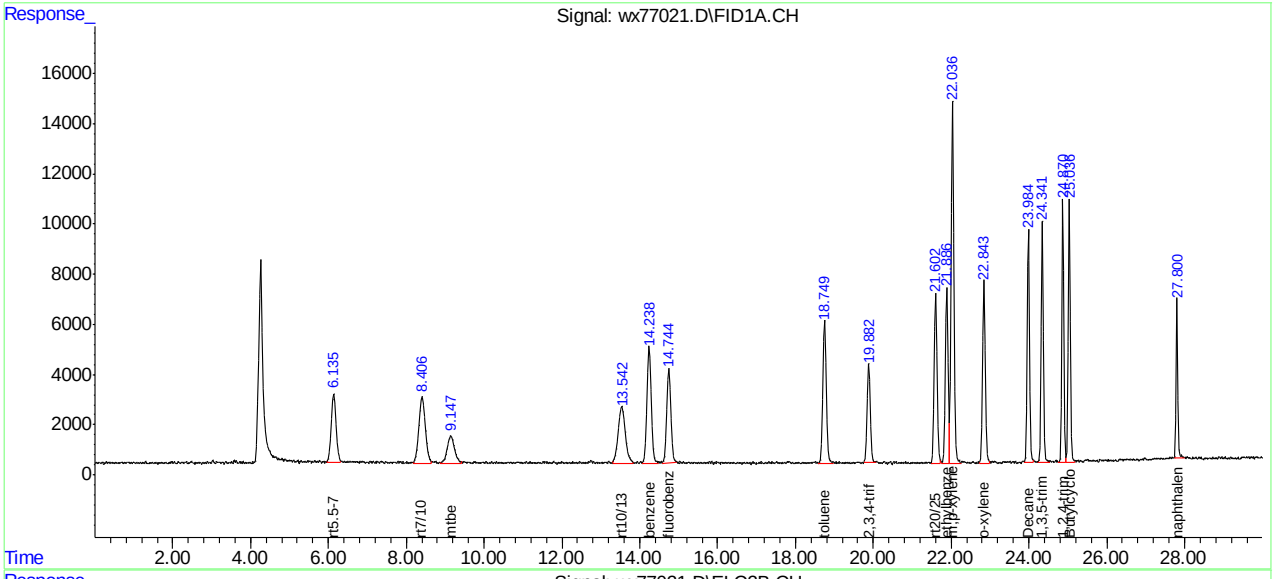
(f)=RT Delta > 1/2 Window (m)=manual int.

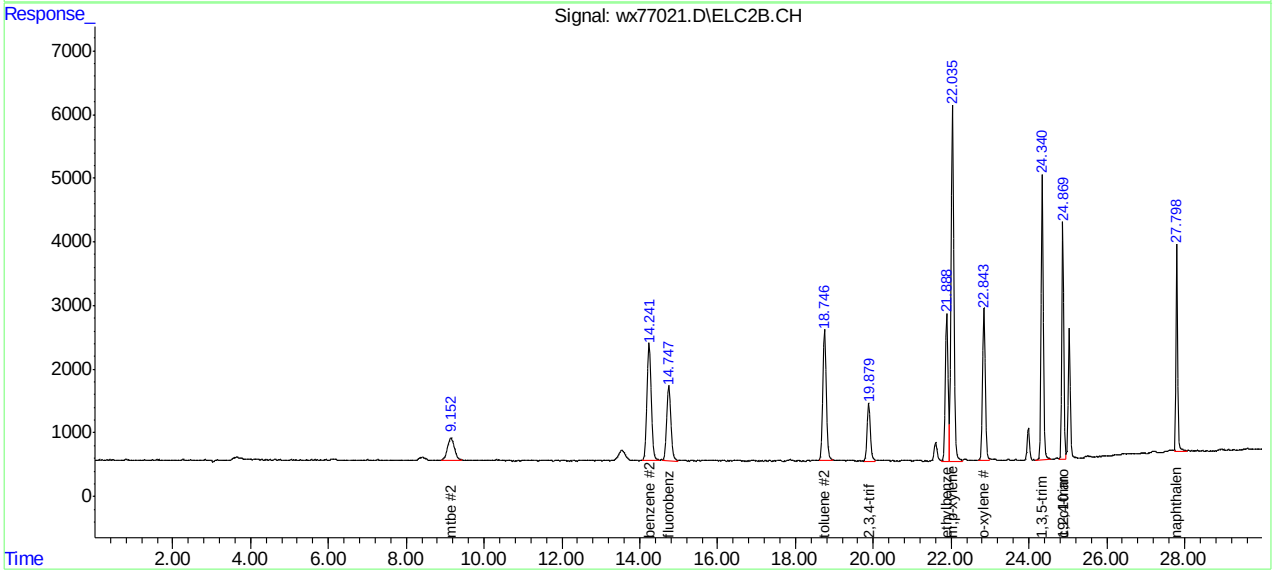
Quantitation Report (QT Reviewed)

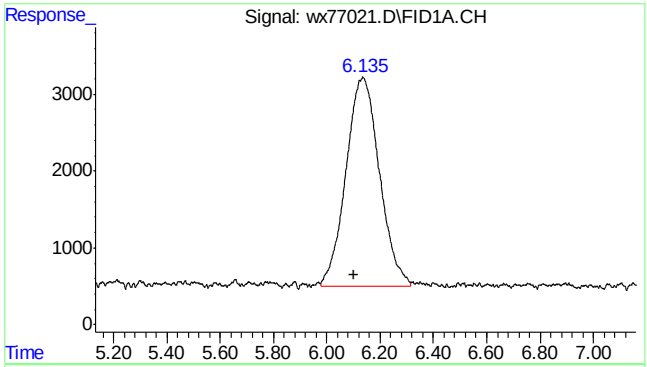
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:48:01 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

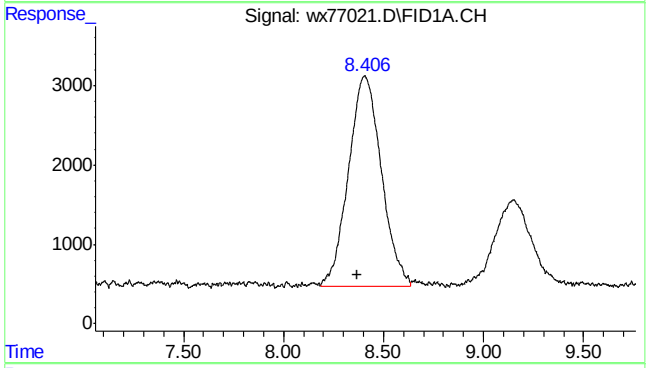






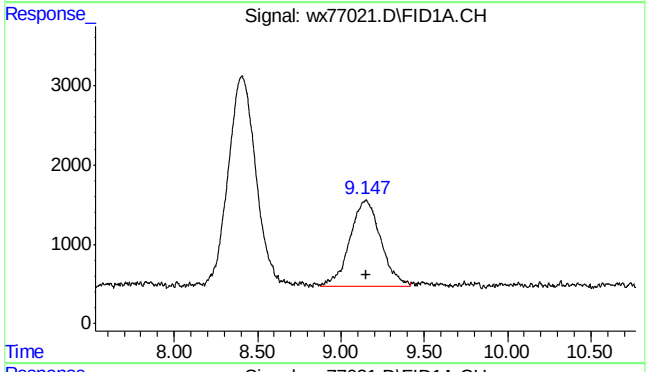
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 236774
Conc: 11.10 ppb m



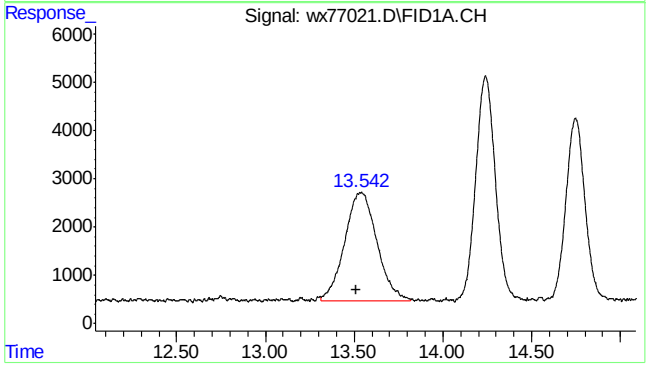
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 303053
Conc: 10.79 ppb m



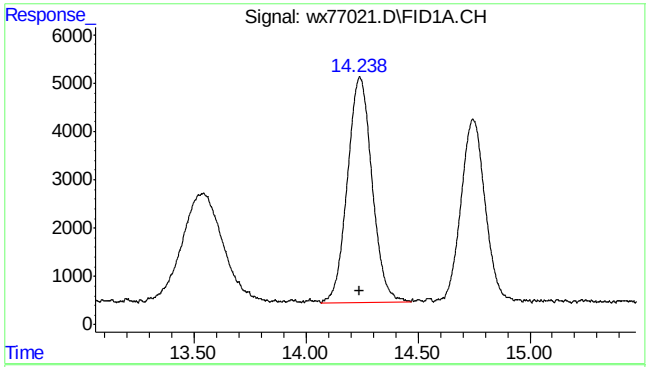
#3 mtbe

R.T.: 9.147 min
Delta R.T.: -0.003 min
Response: 137995
Conc: 10.78 ppb m



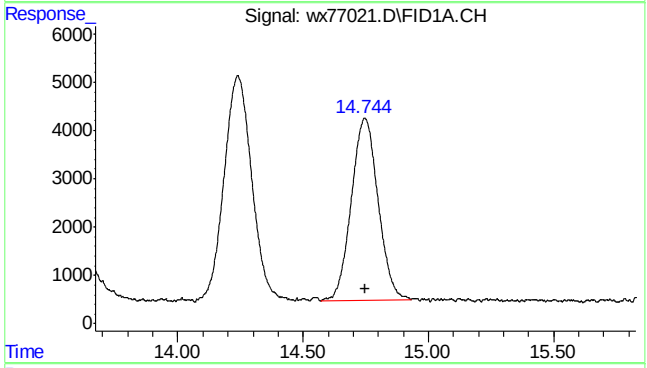
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 285251
Conc: 13.29 ppb m



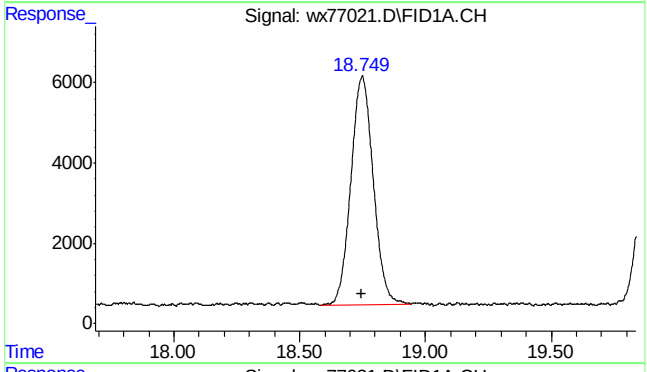
#5 benzene

R.T.: 14.238 min
Delta R.T.: 0.000 min
Response: 360503
Conc: 10.26 ppb



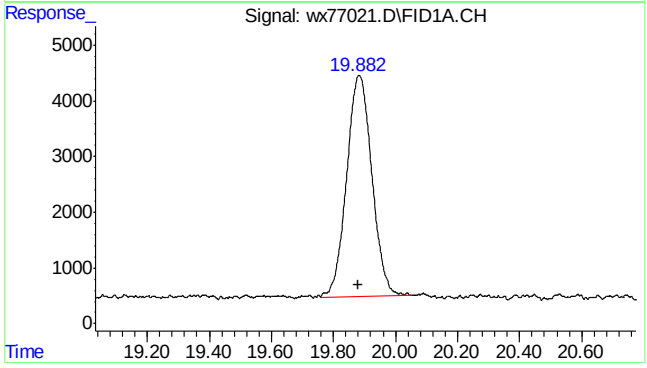
#6 fluorobenzene

R.T.: 14.745 min
Delta R.T.: -0.001 min
Response: 280296
Conc: 10.00 ppb



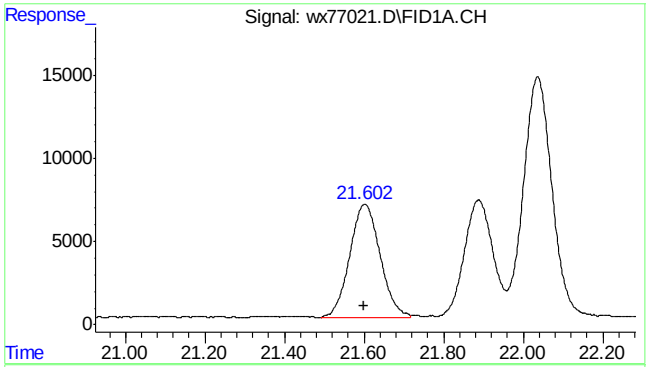
#8 toluene

R.T.: 18.749 min
Delta R.T.: 0.001 min
Response: 354162
Conc: 10.24 ppb



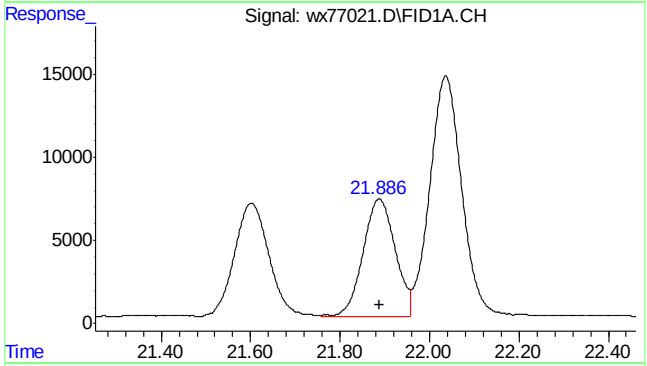
#9 2,3,4-trifluorotoluene

R.T.: 19.883 min
Delta R.T.: 0.001 min
Response: 224739
Conc: 9.91 ppb



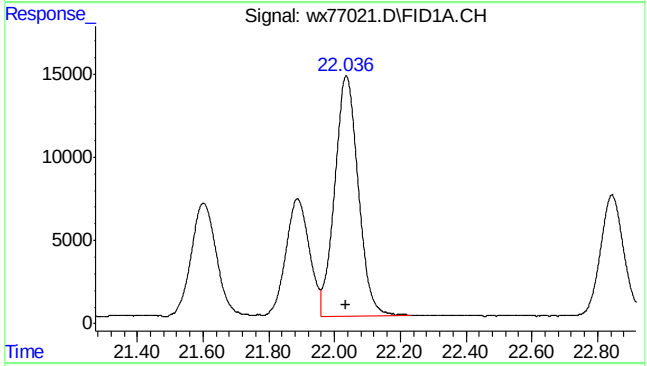
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 360524
Conc: 11.47 ppb m



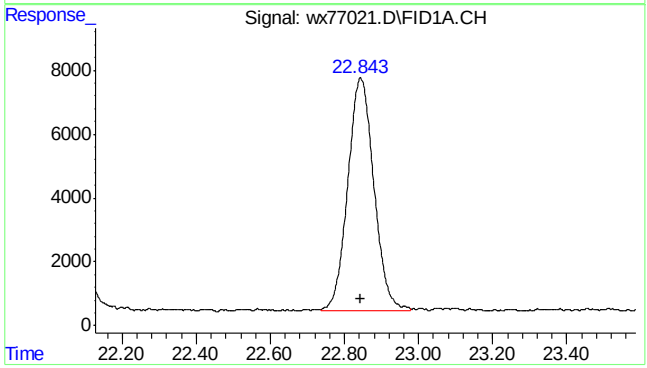
#13 ethylbenzene

R.T.: 21.888 min
Delta R.T.: 0.000 min
Response: 350442
Conc: 10.24 ppb



#14 m,p-xylene

R.T.: 22.036 min
Delta R.T.: 0.000 min
Response: 719678
Conc: 20.46 ppb



#15 o-xylene

R.T.: 22.843 min
Delta R.T.: -0.002 min
Response: 356798
Conc: 10.27 ppb m

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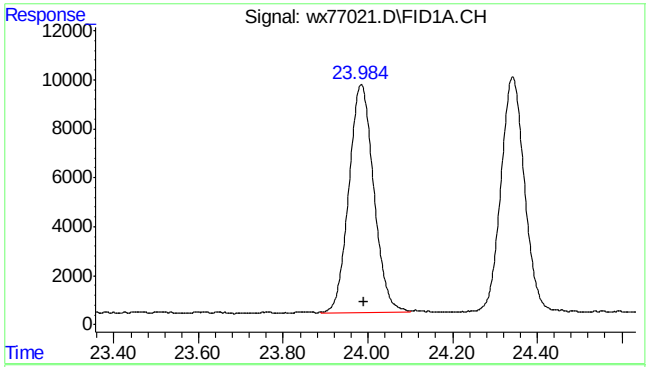
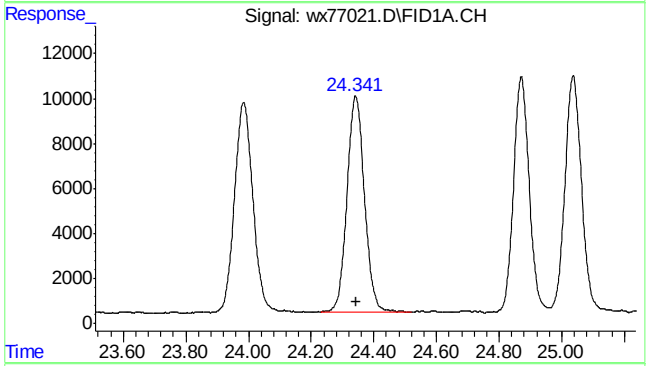


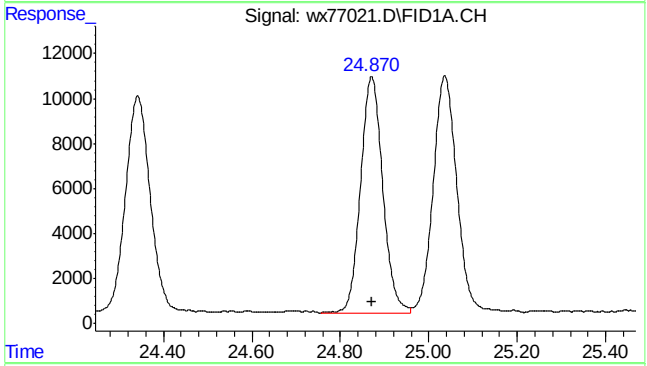
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 381152
Conc: 11.97 ppb m



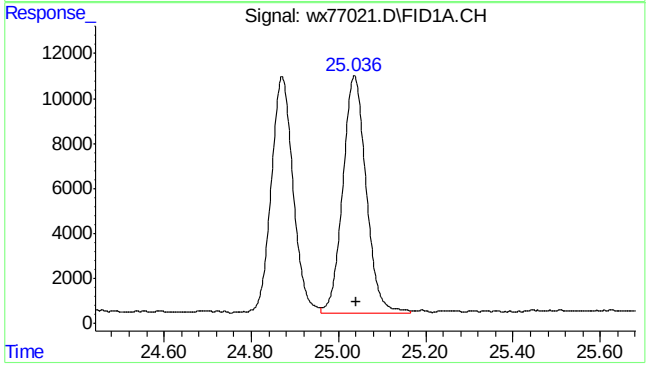
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 374857
Conc: 10.23 ppb



#18 1,2,4-trimethylbenzene

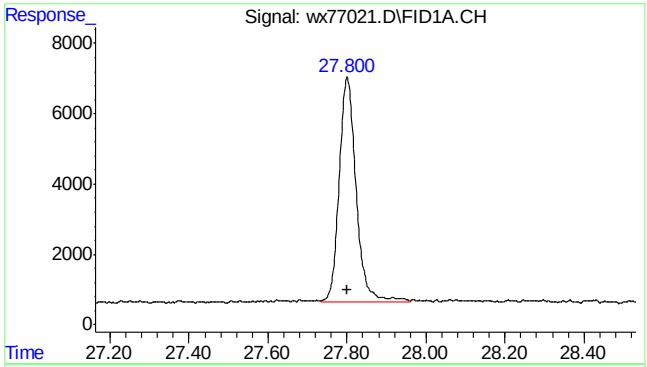
R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 364500
Conc: 10.46 ppb



#19 Butylcyclohexane

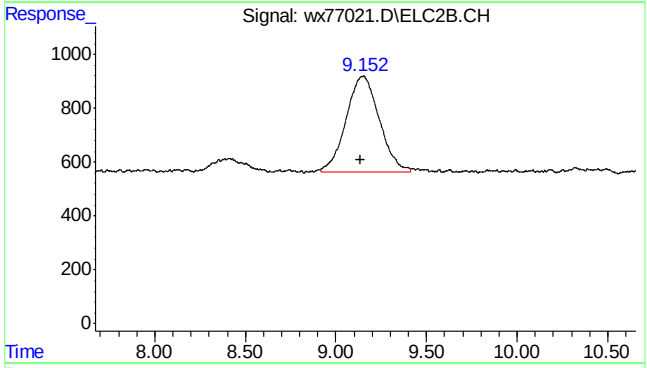
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 390458
Conc: 11.67 ppb m

SGS ACCUTEST MC46423



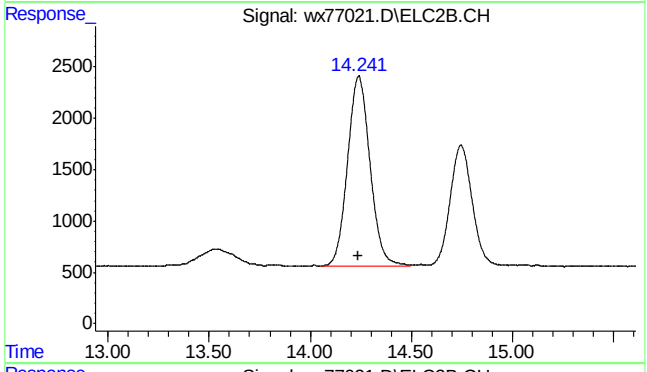
#20 naphthalene

```
      R.T.:   27.800 min
Delta R.T.:    0.000 min
  Response:    188796
      Conc:   8.84 ppb m
```



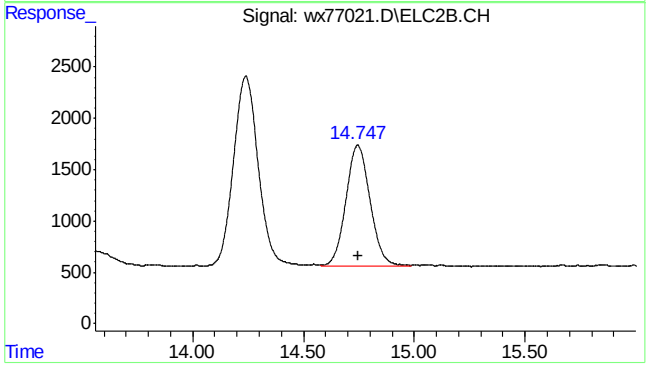
#23 mtbe #2

```
      R.T.:    9.152 min
Delta R.T.:    0.016 min
  Response:     45370
      Conc:  10.26 ppb m
```



#24 benzene #2

```
      R.T.:   14.239 min
Delta R.T.:    0.000 min
  Response:    143790
      Conc:  10.22 ppb
```



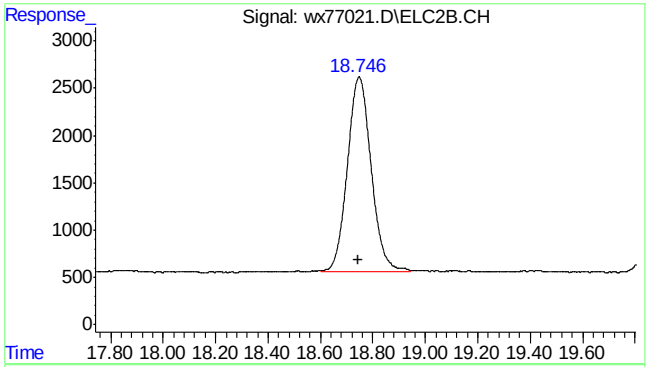
#25 fluorobenzene #2

```
      R.T.:   14.745 min
Delta R.T.:    0.000 min
  Response:     90173
      Conc:   9.99 ppb
```

7.5.6

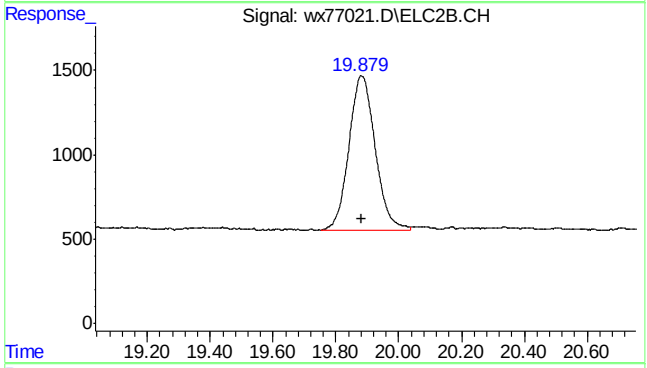
7

SGS ACCUTEST MC46423



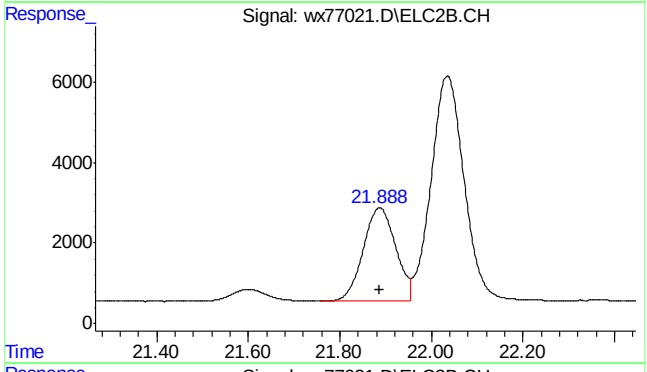
#26 toluene #2

R.T.: 18.746 min
Delta R.T.: 0.000 min
Response: 129315
Conc: 10.04 ppb m



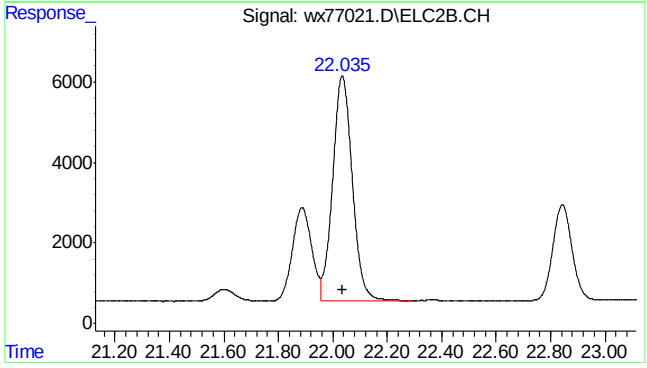
#27 2,3,4-trifluorotoluene #2

R.T.: 19.879 min
Delta R.T.: -0.003 min
Response: 53267
Conc: 10.04 ppb m



#28 ethylbenzene #2

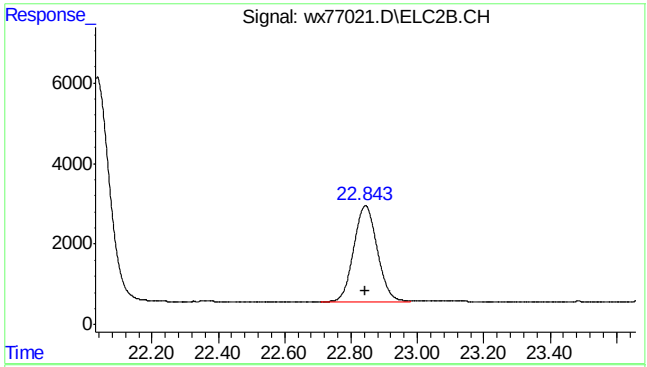
R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 115115
Conc: 10.11 ppb



#29 m,p-xylene #2

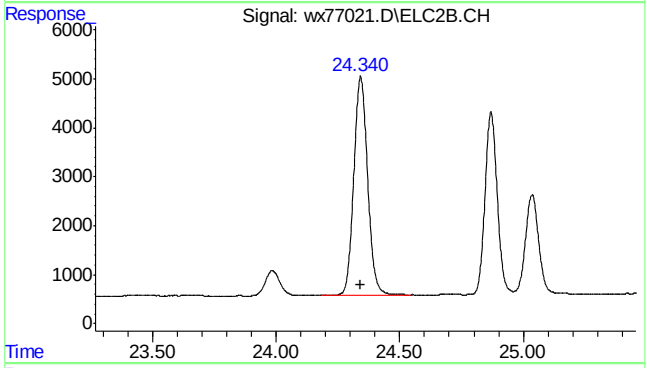
R.T.: 22.035 min
Delta R.T.: 0.000 min
Response: 282507
Conc: 20.37 ppb

SGS ACCUTEST MC46423



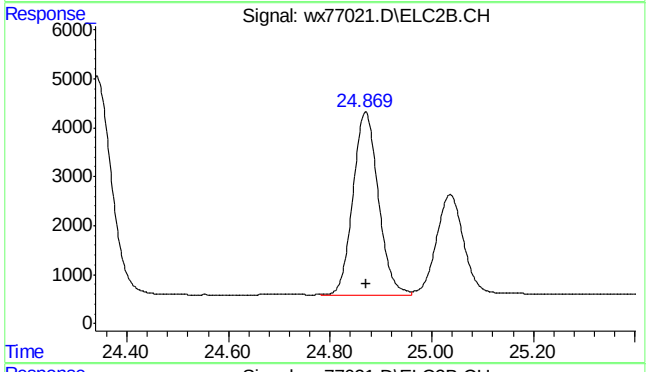
#30 o-xylene #2

R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 118283
Conc: 10.15 ppb m



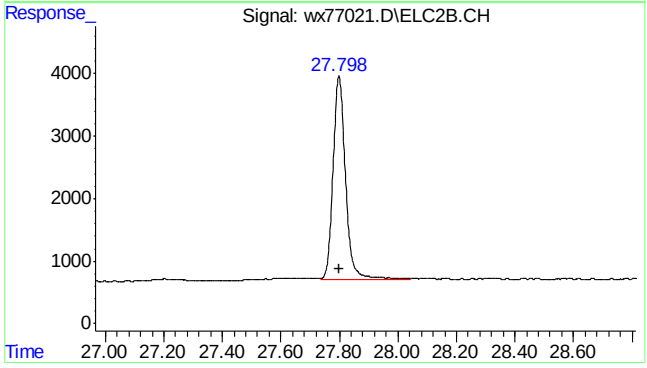
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 174798
Conc: 10.27 ppb



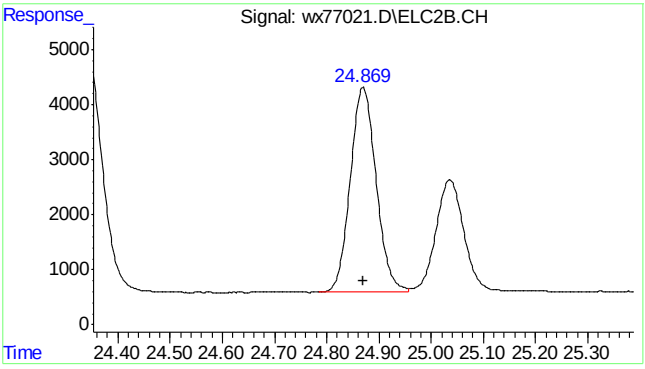
#32 1,2,4-trimethylbenzene #2

R.T.: 24.869 min
Delta R.T.: 0.000 min
Response: 128926
Conc: 10.28 ppb m



#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 97572
Conc: 9.19 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 128820
Conc: 10.28 ppb m

7.5.6

7

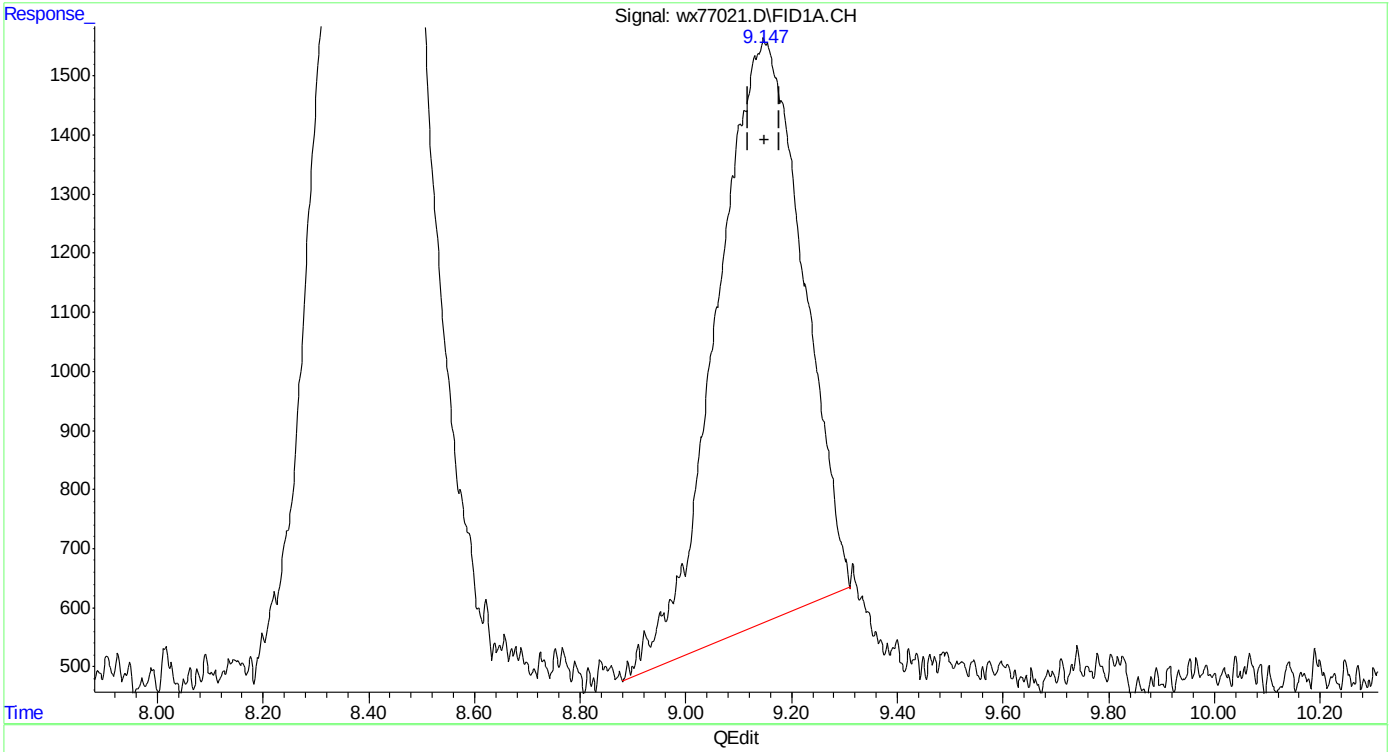
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.148min 8.748 ppb
response 112019

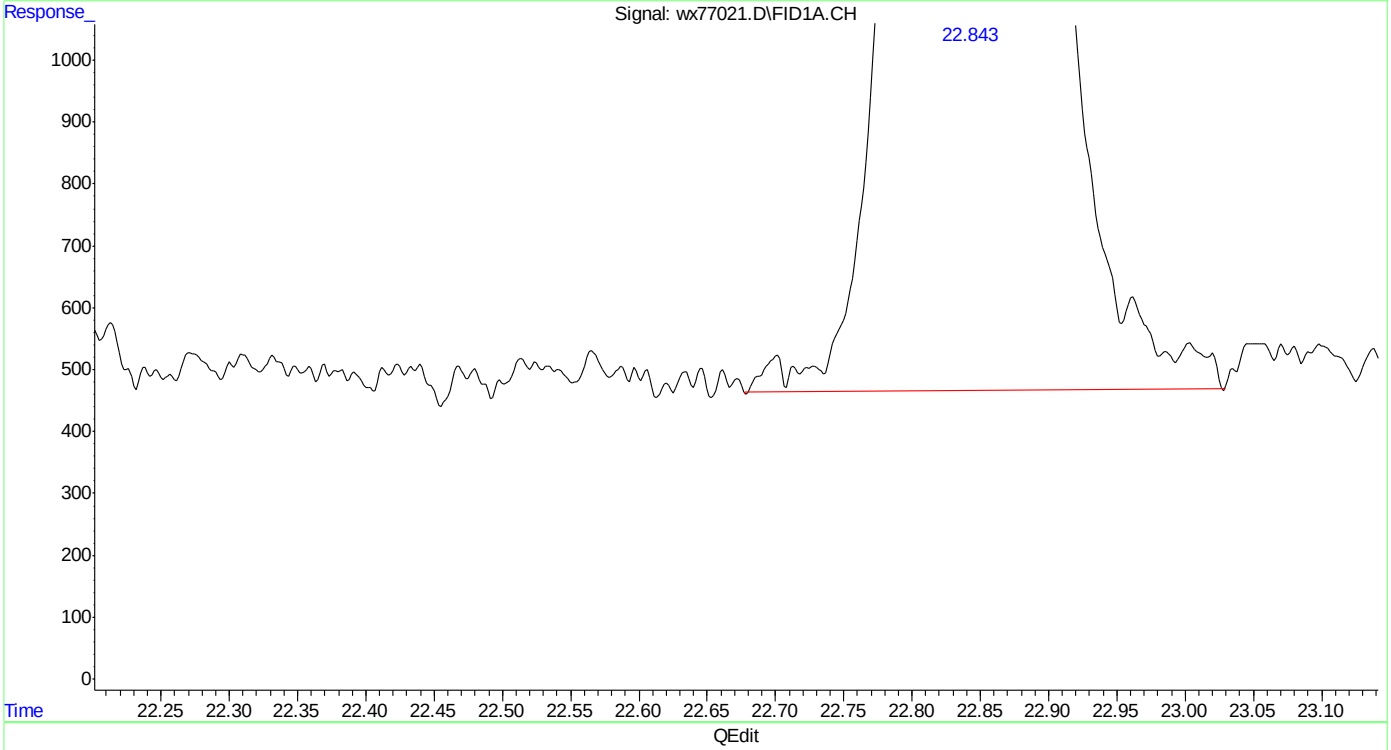
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:44:19 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.844min 10.369 ppb
response 360326

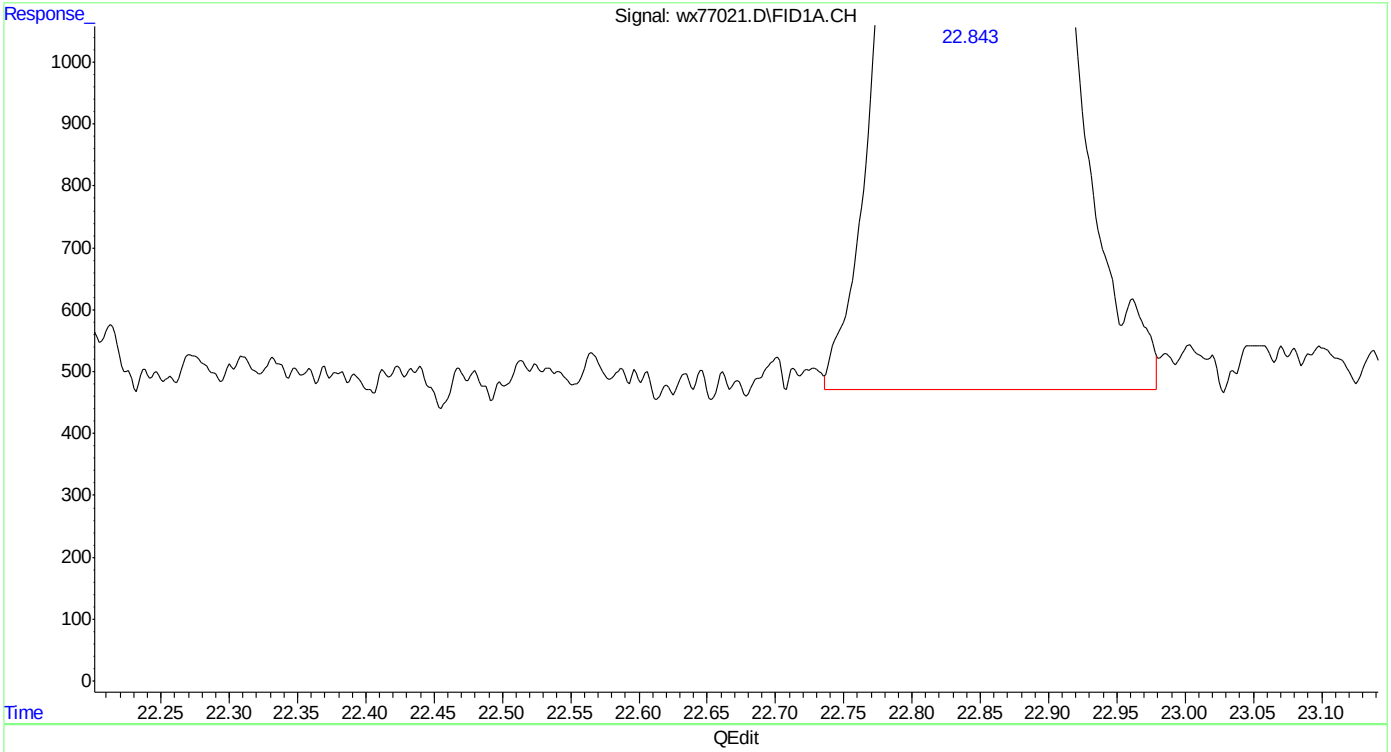
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.843min 10.268 ppb m
response 356798

(+) = Expected Retention Time

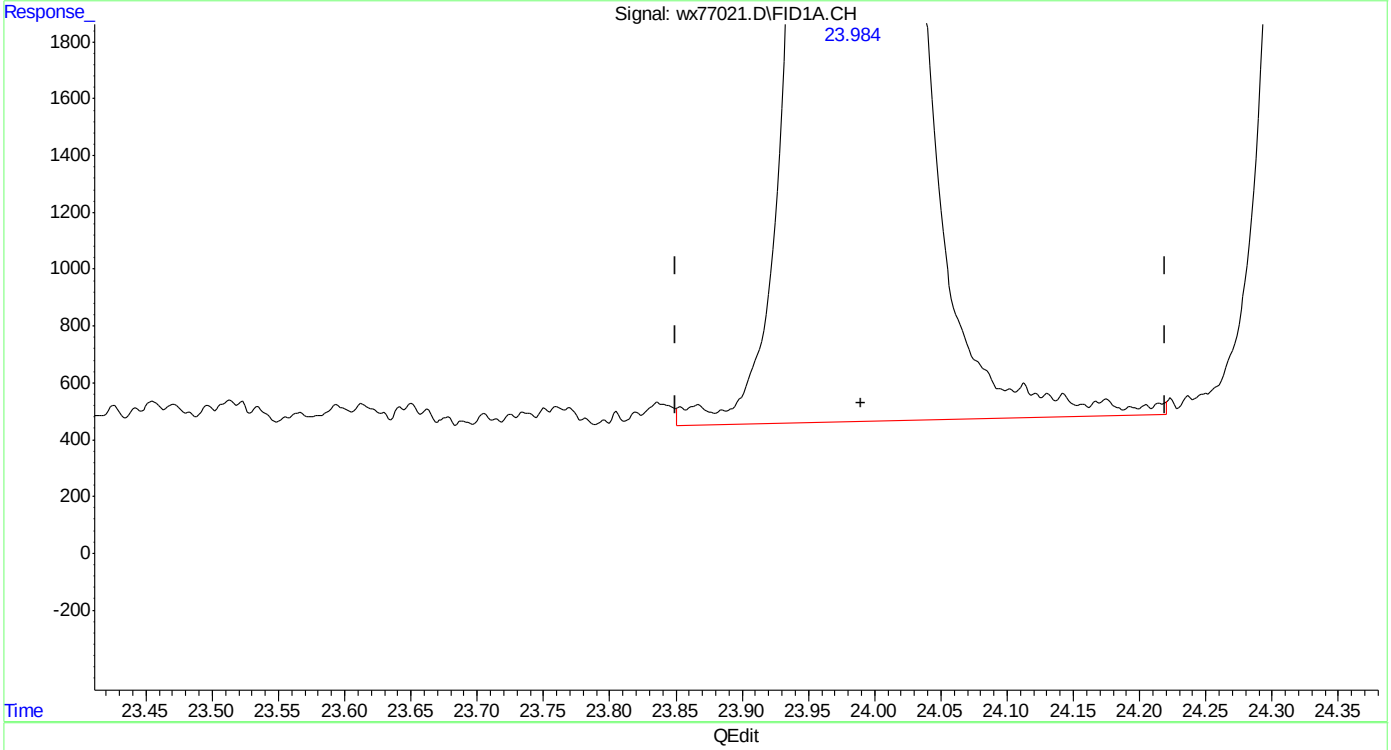
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 12.254 ppb
response 390276

(+) = Expected Retention Time

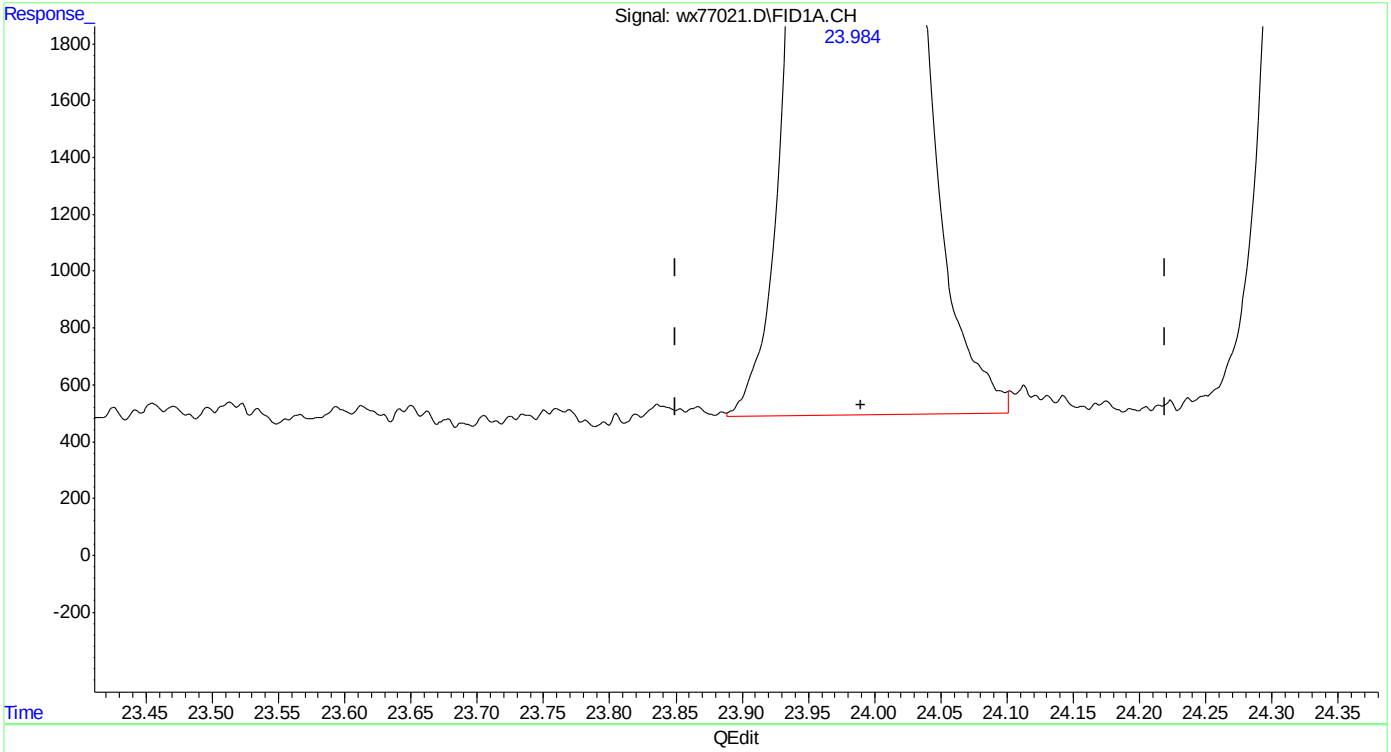
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 11.968 ppb m
response 381152

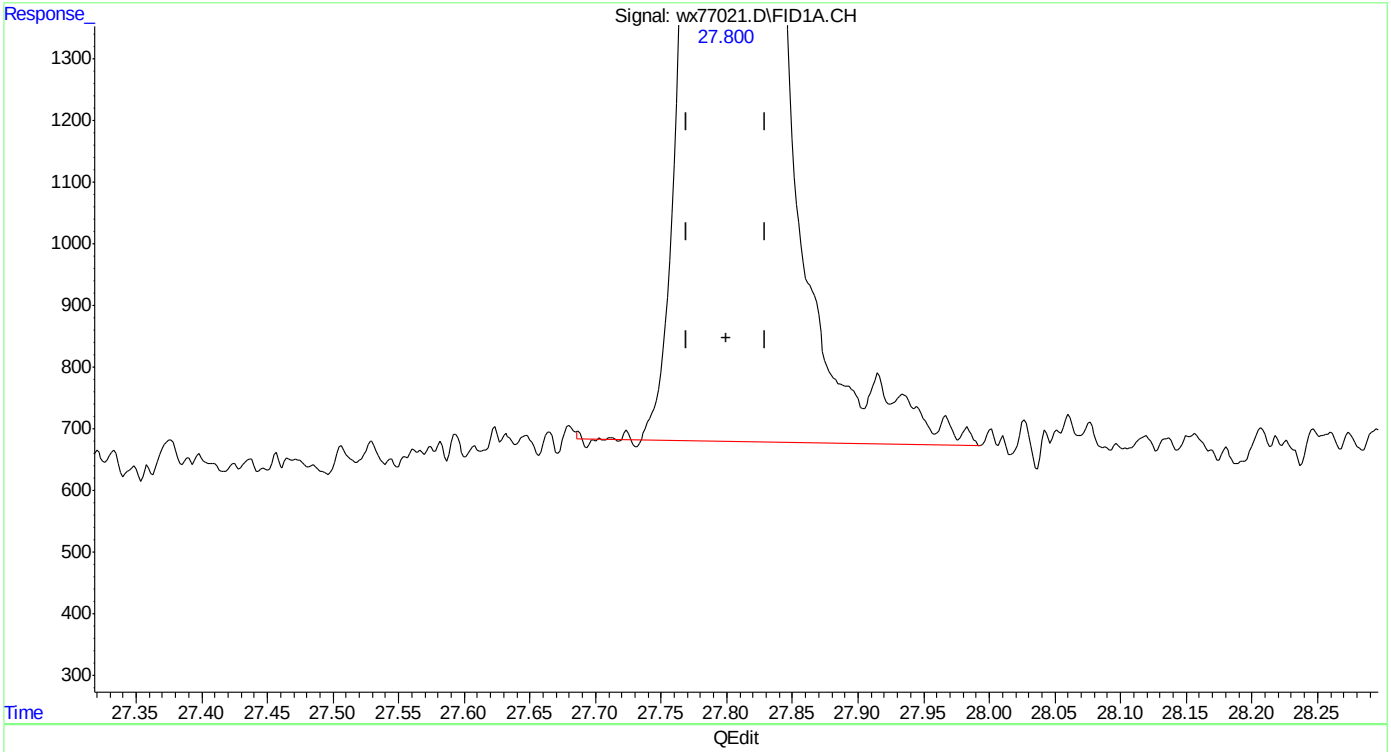
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.801min 8.762 ppb
response 187056

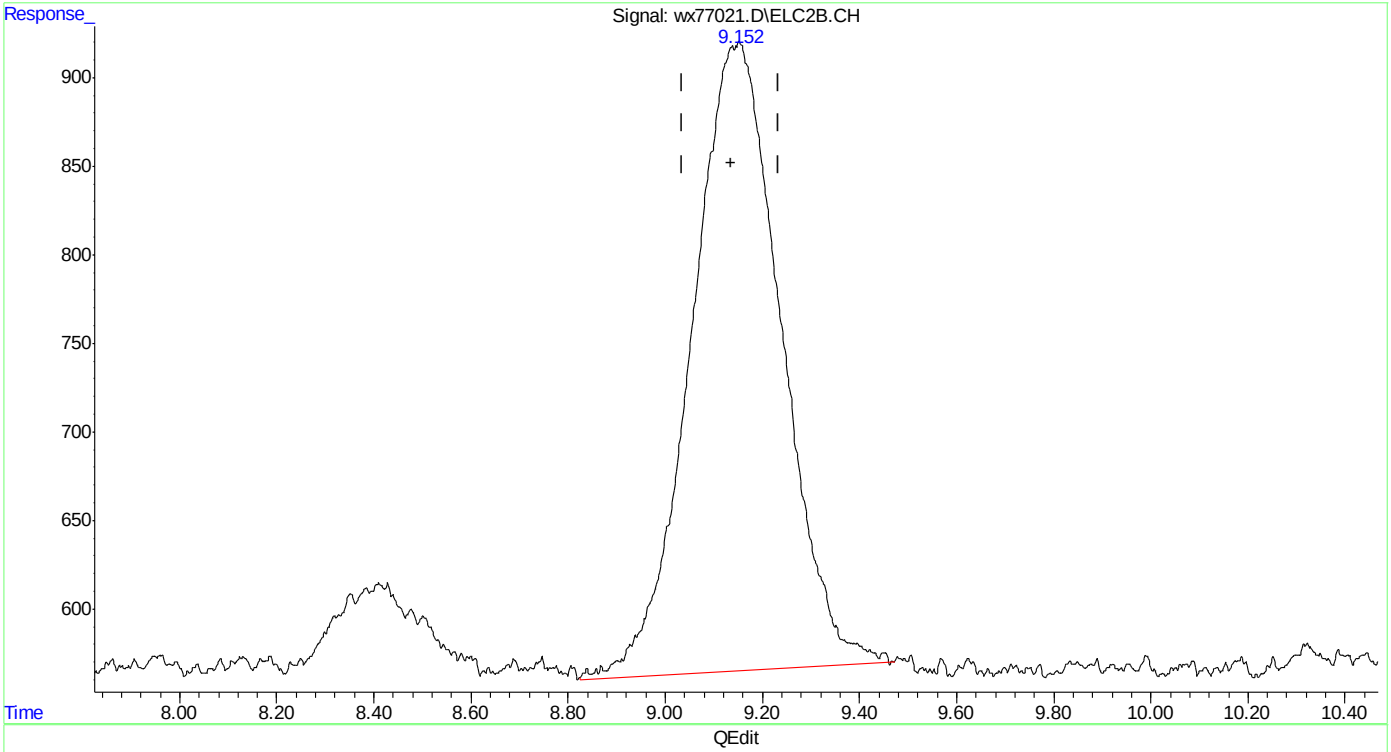
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:43 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.152min 10.265 ppb
response 45389

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:45:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(23) mtbe #2
9.152min 10.261 ppb m
response 45370

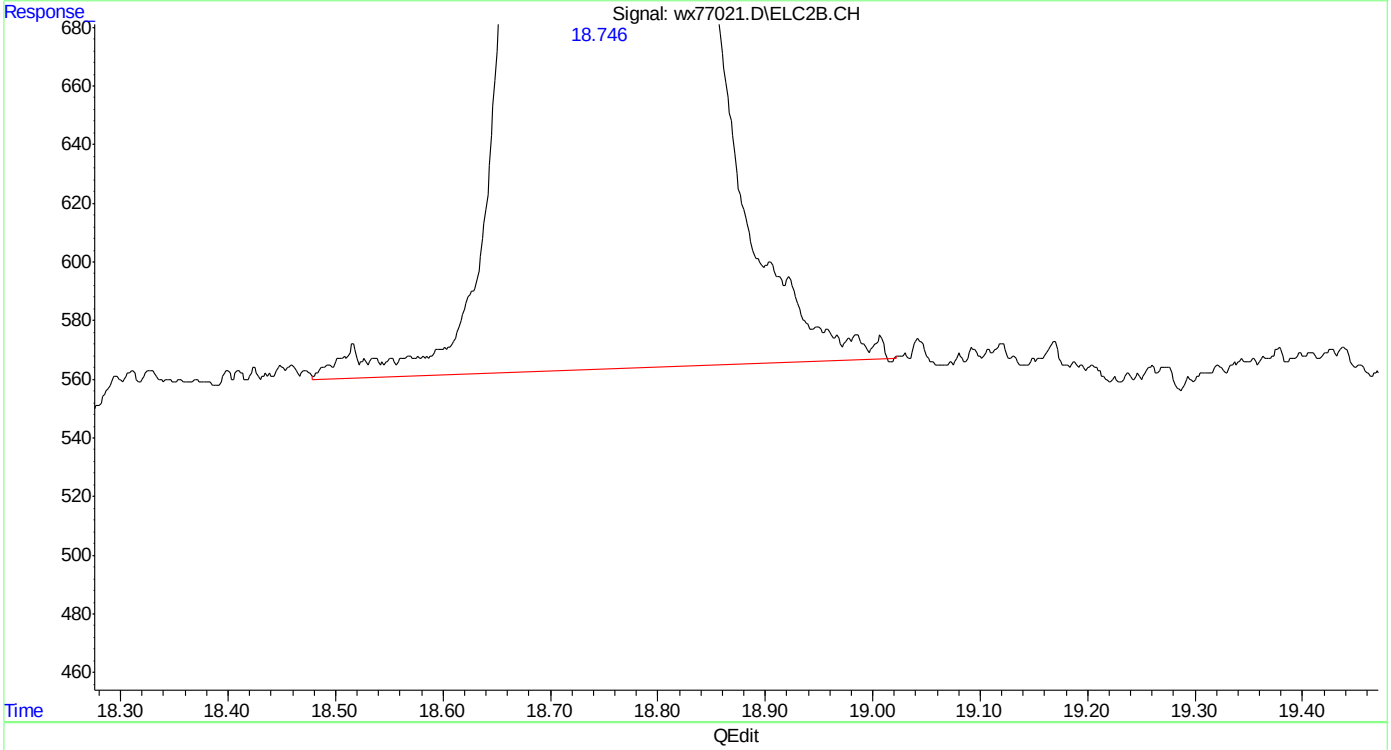
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.747min 10.117 ppb
response 130277

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:13 2016

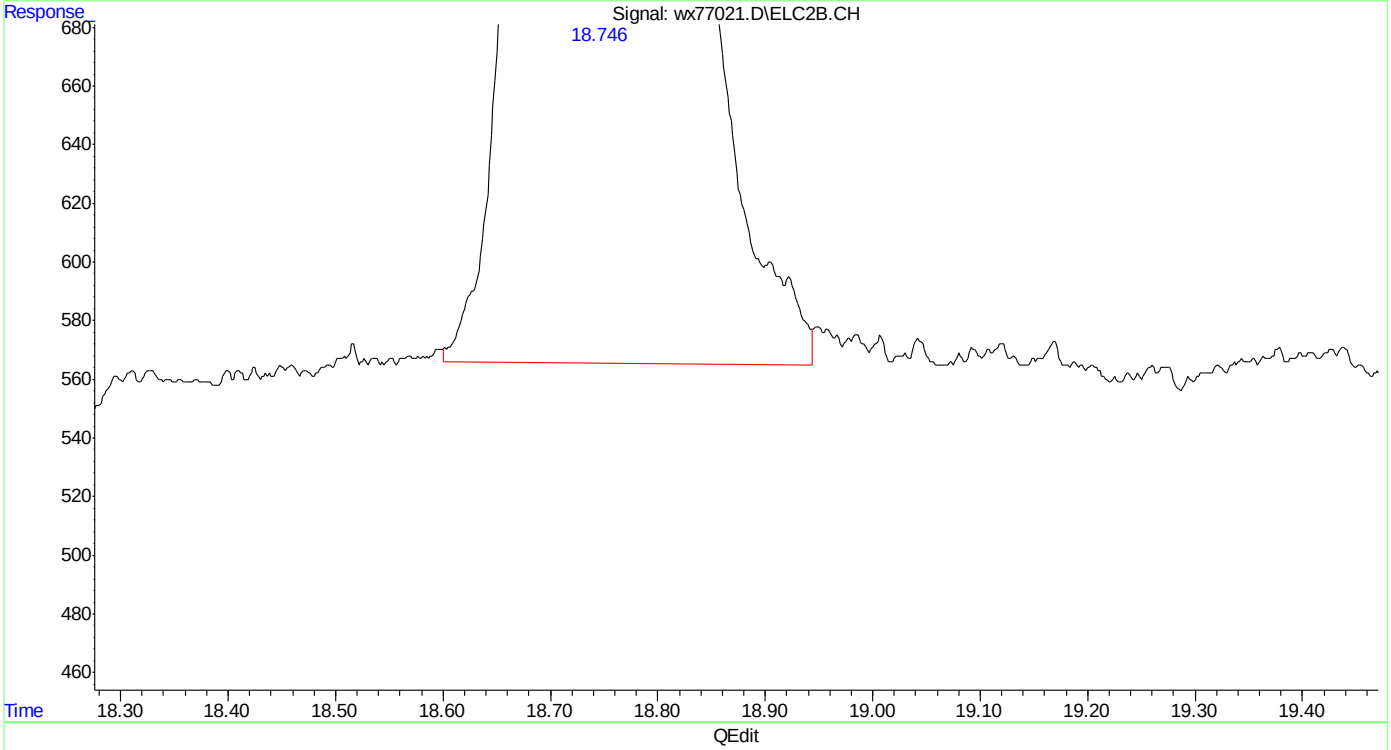
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.746min 10.042 ppb m
response 129315

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(27) 2,3,4-trifluorotoluene #2 (s)
19.882min 10.155 ppb
response 53855

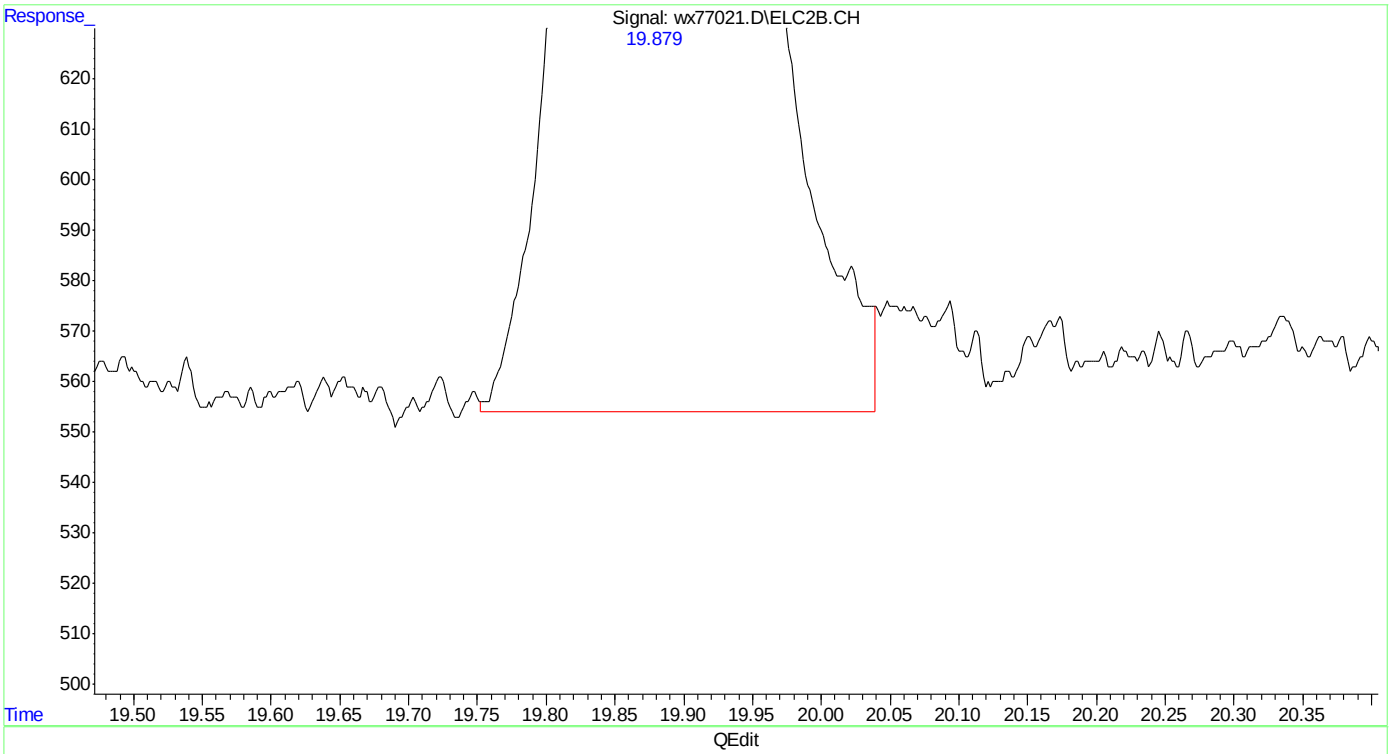
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.879min 10.045 ppb m
response 53267

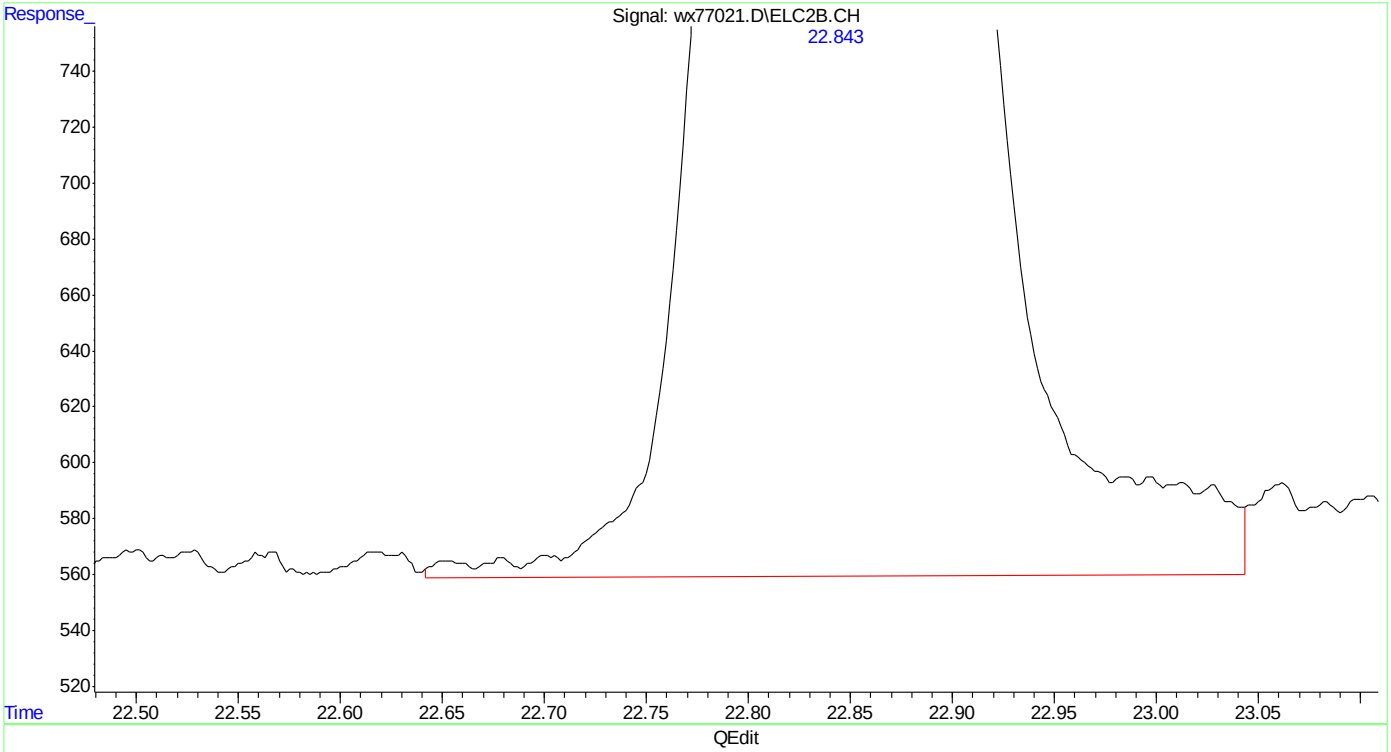
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:39 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.844min 10.328 ppb
response 120362

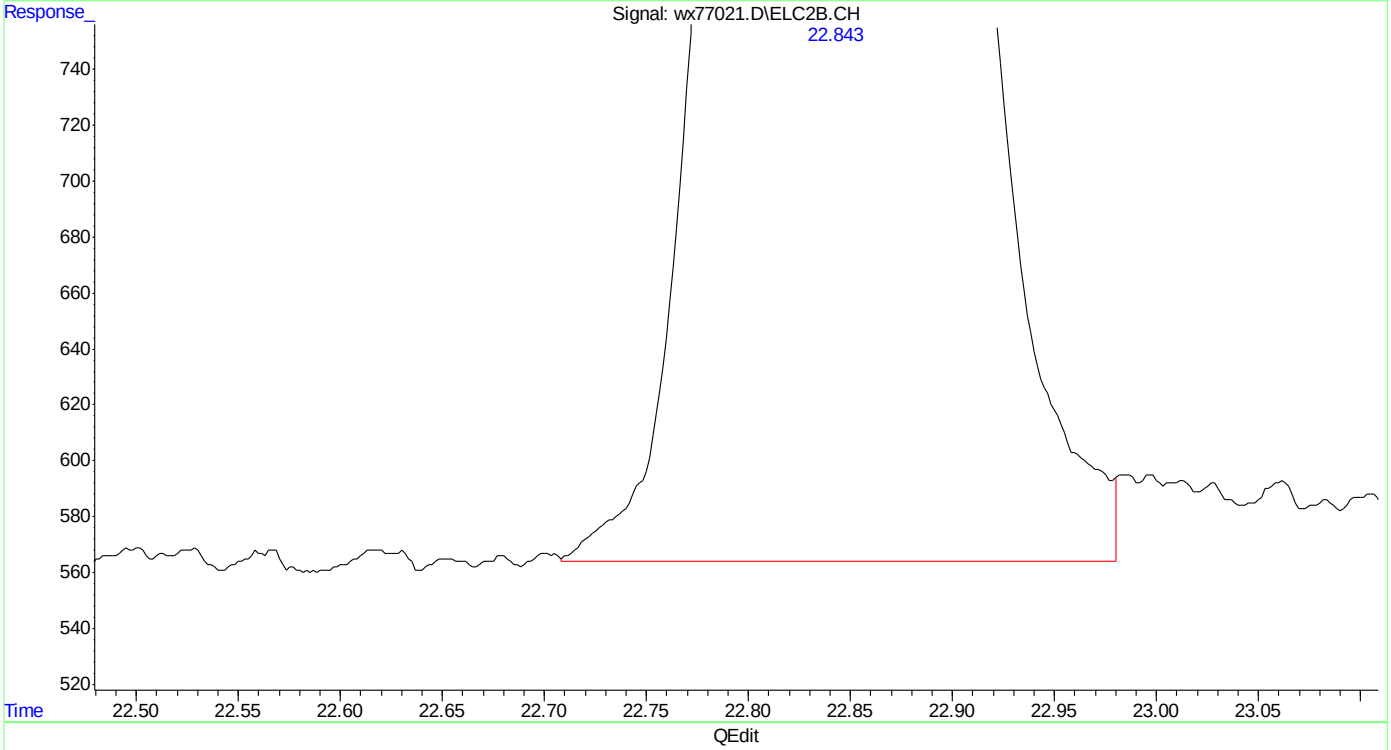
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:46:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.843min 10.150 ppb m
response 118283

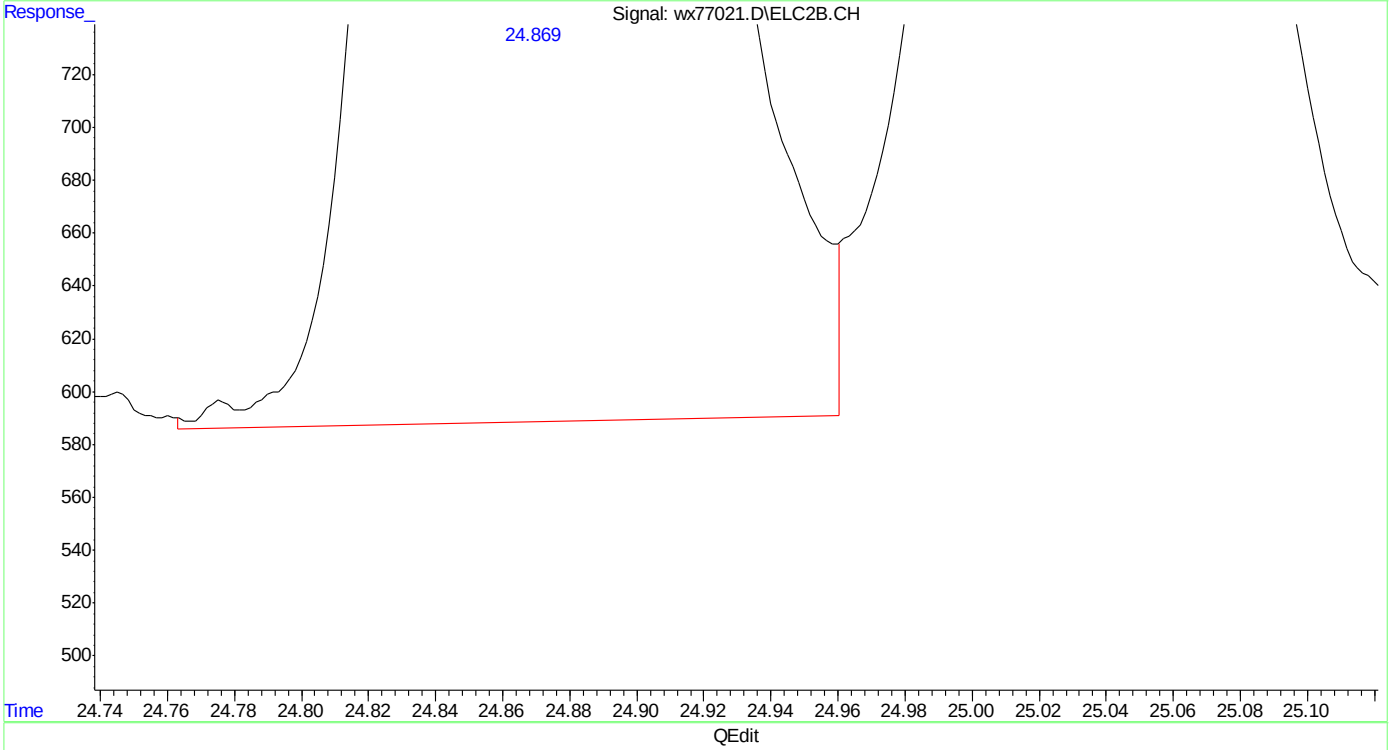
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.870min 10.311 ppb
response 129259

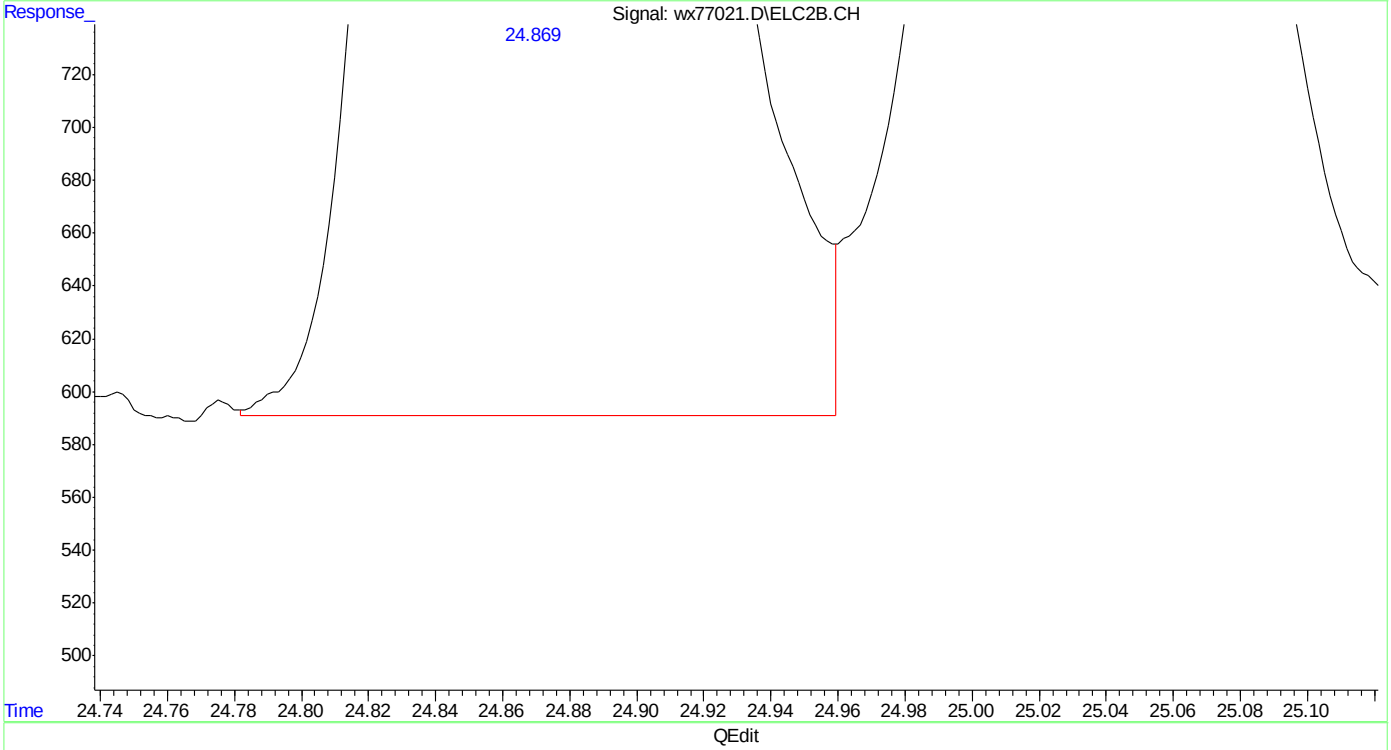
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.869min 10.285 ppb m
response 128926

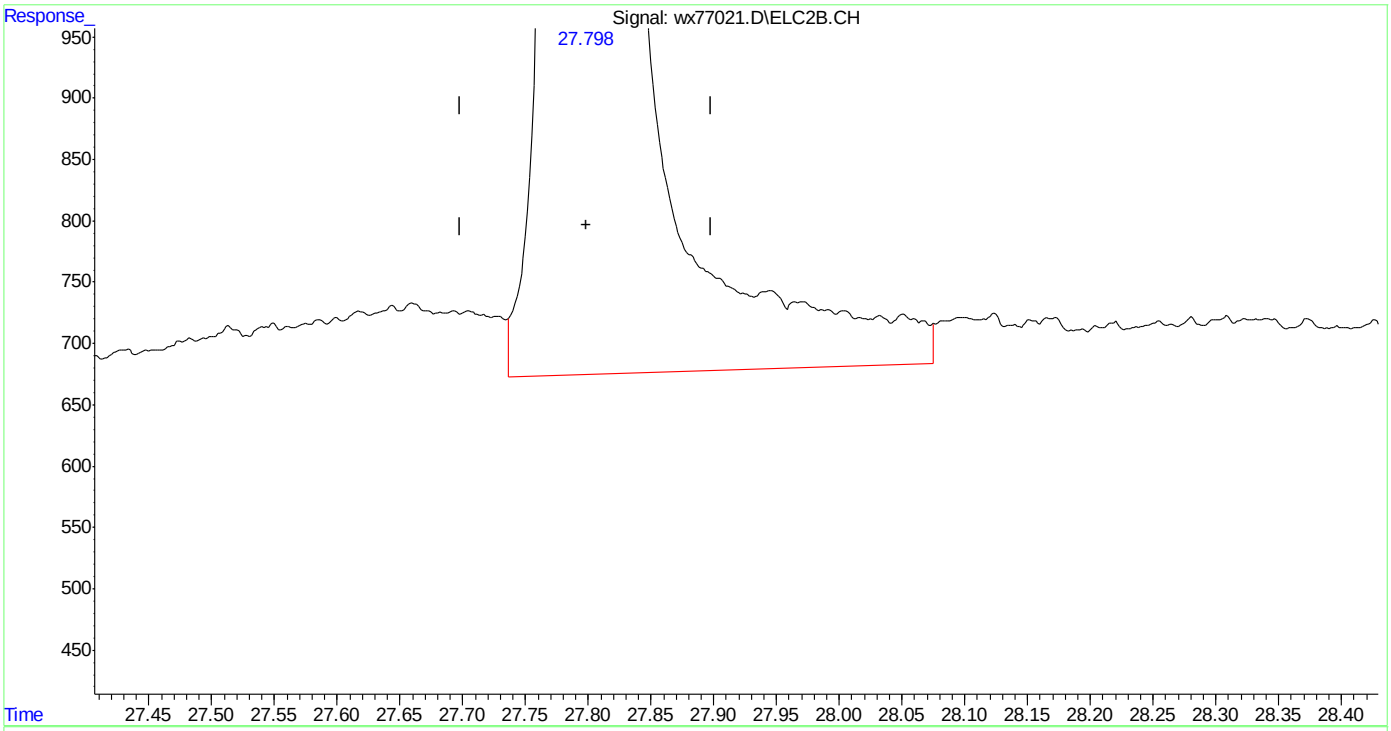
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:47:08 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77021.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 10:37 am
Operator : tonyf
Sample : ic3782-10,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:43:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:42:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 9.706 ppb
response 103007

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:47:14 2016

WX77022.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri 06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:54:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	141446	5.046	ppb	m
Spiked Amount 50.000		Recovery = 10.09%			
9) s 2,3,4-trifluorotoluene	19.882	115265	5.104	ppb	m
Spiked Amount 50.000		Recovery = 10.21%			
25) s fluorobenzene #2	14.749	45111	5.000	ppb	
Spiked Amount 50.000		Recovery = 10.00%			
27) s 2,3,4-trifluorotoluen...	19.886	27239	5.125	ppb	
Spiked Amount 50.000		Recovery = 10.25%			
Target Compounds					
1) h rt5.5-7	6.100	118886	5.284	ppb	
2) h rt7/10	8.370	150938	5.171	ppb	
3) mtbe	9.120f	67435	5.069	ppb	m
4) h rt10/13	13.510	143485	5.741	ppb	
5) benzene	14.243	179050	5.030	ppb	
8) toluene	18.751	176758	5.050	ppb	m
11) h rt20/25	21.600	181001	5.364	ppb	
13) ethylbenzene	21.889	173902	5.022	ppb	m
14) m,p-xylene	22.037	362950	10.202	ppb	
15) o-xylene	22.843	181696	5.160	ppb	m
16) h Decane	23.990	182417	5.215	ppb	
17) t 1,3,5-trimethylbenzene	24.342	187866	5.069	ppb	
18) 1,2,4-trimethylbenzene	24.871	179869	5.045	ppb	
19) h Butylcyclohexane	25.040	189639	5.231	ppb	
20) naphthalene	27.800	84812	4.217	ppb	m
23) mtbe #2	9.145	23052	5.146	ppb	m
24) benzene #2	14.240	72274	5.080	ppb	m
26) toluene #2	18.750	64987	5.036	ppb	
28) ethylbenzene #2	21.889	58064	5.073	ppb	
29) m,p-xylene #2	22.037	141245	10.092	ppb	
30) o-xylene #2	22.844	58928	5.019	ppb	m
31) t 1,3,5-trimethylbenzen...	24.342	86843	5.033	ppb	
32) 1,2,4-trimethylbenzen...	24.870	64583	5.080	ppb	
33) naphthalene #2	27.798	44461	4.365	ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	64428	5.070	ppb	

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

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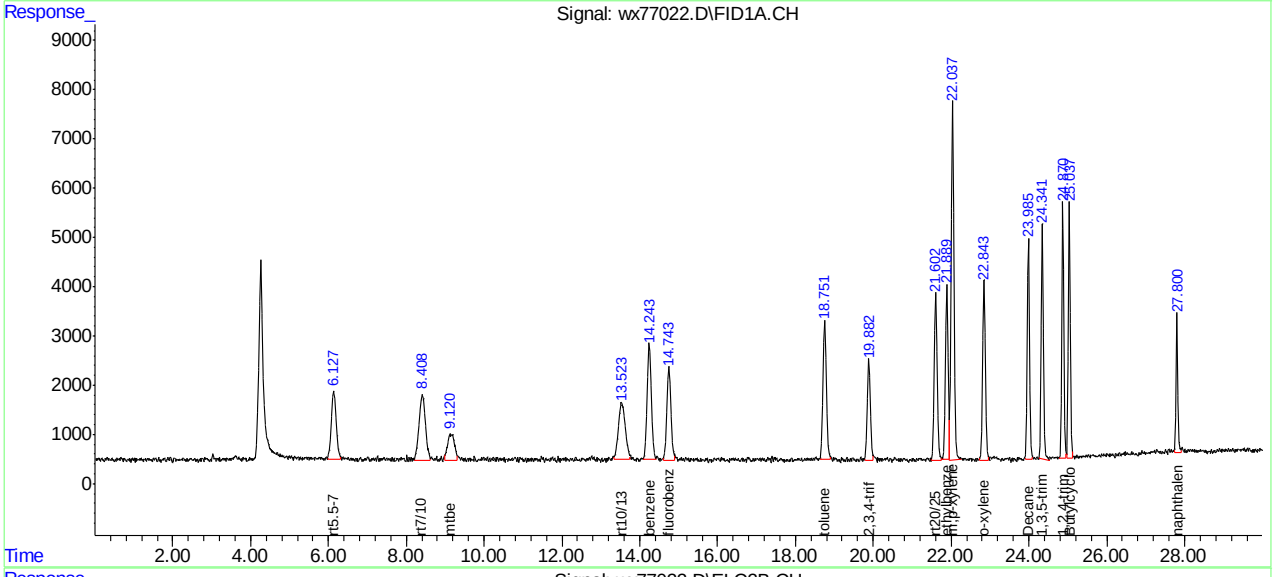
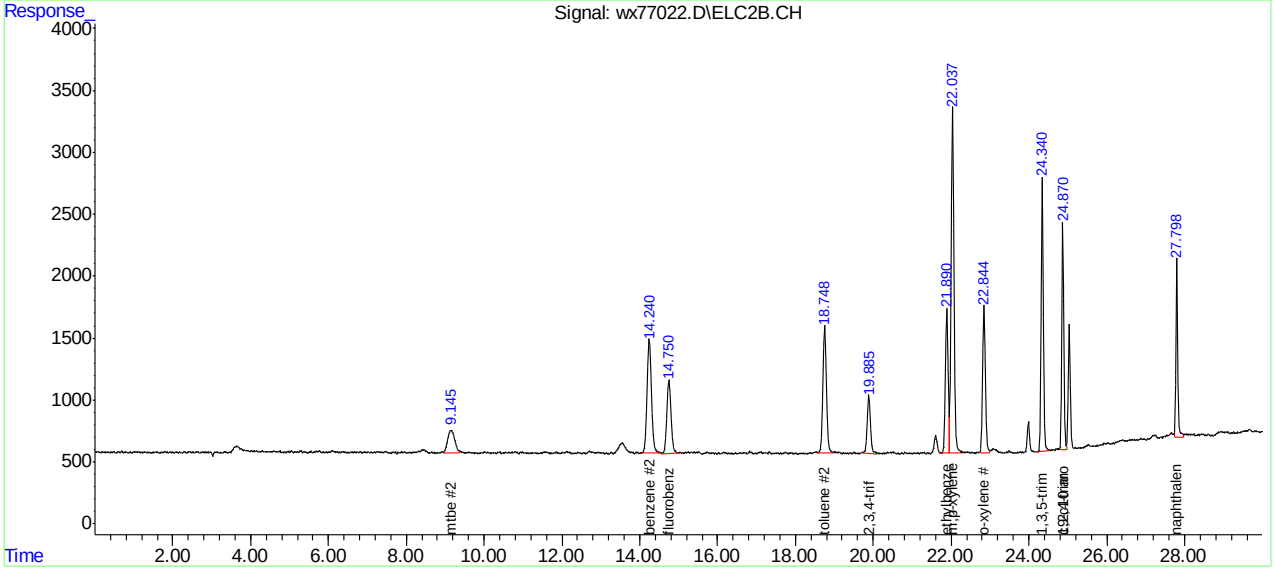
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

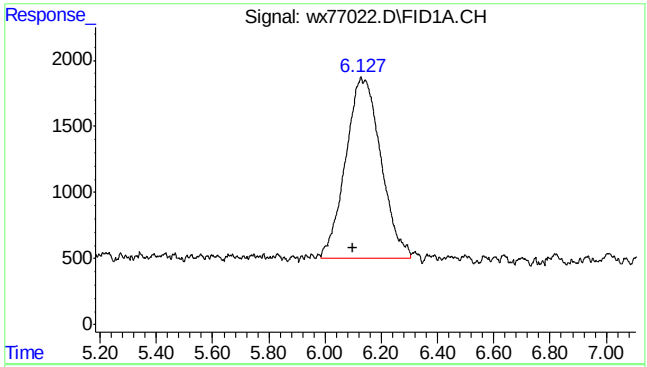
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:54:45 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



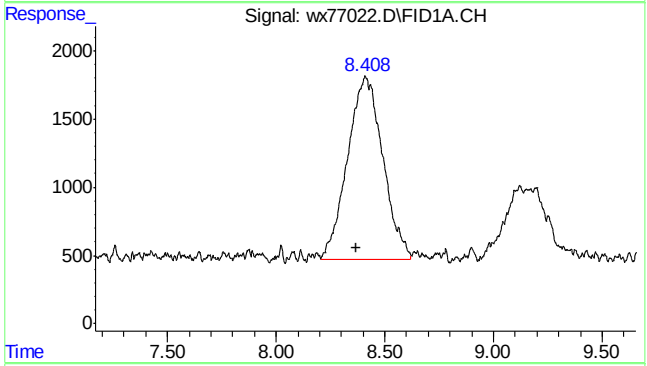


SGS ACCUTEST MC46423



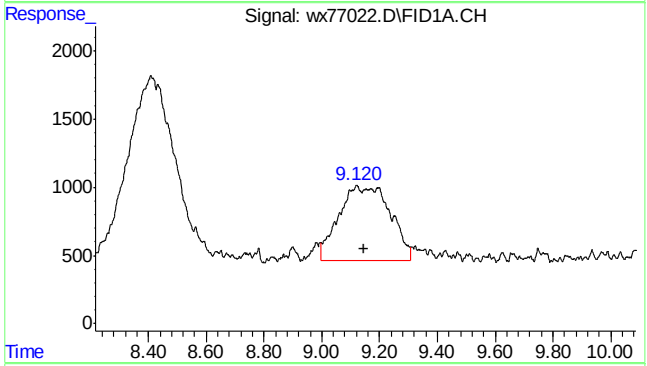
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 118886
Conc: 5.28 ppb m



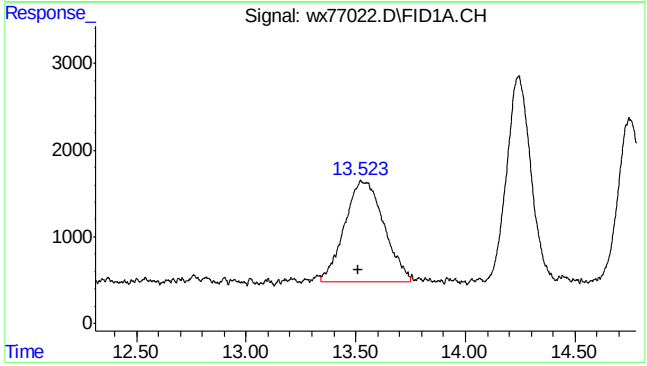
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 150938
Conc: 5.17 ppb m



#3 mtbe

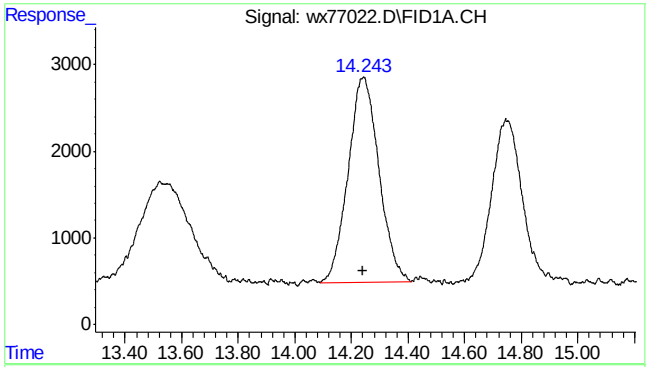
R.T.: 9.120 min
Delta R.T.: -0.027 min
Response: 67435
Conc: 5.07 ppb m



#4 rt10/13

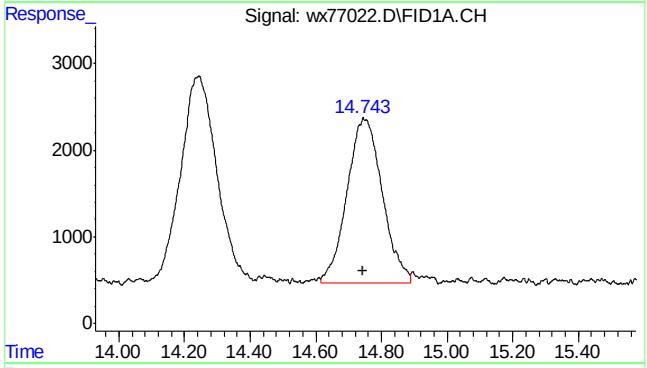
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 143485
Conc: 5.74 ppb m

SGS ACCUTEST MC46423



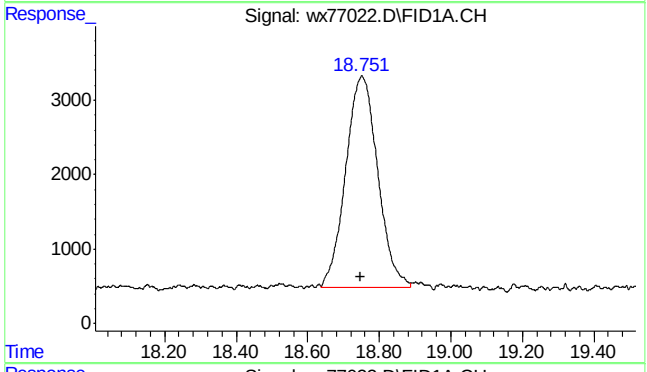
#5 benzene

R.T.: 14.243 min
Delta R.T.: 0.005 min
Response: 179050
Conc: 5.03 ppb



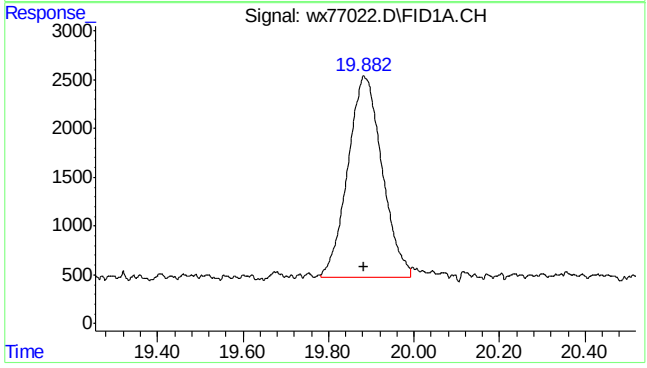
#6 fluorobenzene

R.T.: 14.743 min
Delta R.T.: -0.002 min
Response: 141446
Conc: 5.05 ppb m



#8 toluene

R.T.: 18.751 min
Delta R.T.: 0.001 min
Response: 176758
Conc: 5.05 ppb m



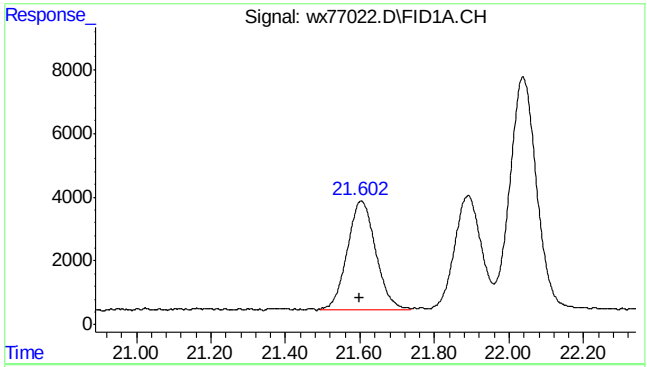
#9 2,3,4-trifluorotoluene

R.T.: 19.882 min
Delta R.T.: 0.000 min
Response: 115265
Conc: 5.10 ppb m

7.5.7

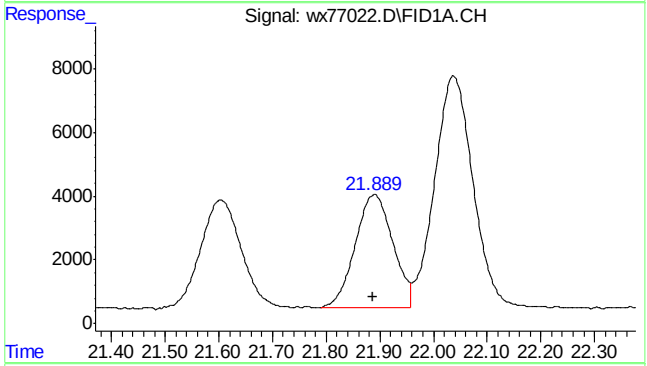
7

SGS ACCUTEST MC46423



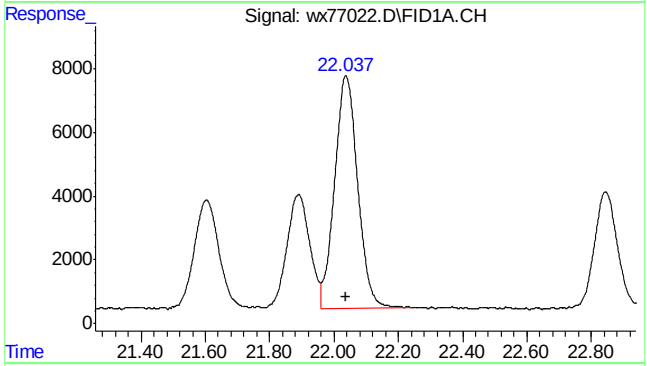
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 181001
Conc: 5.36 ppb m



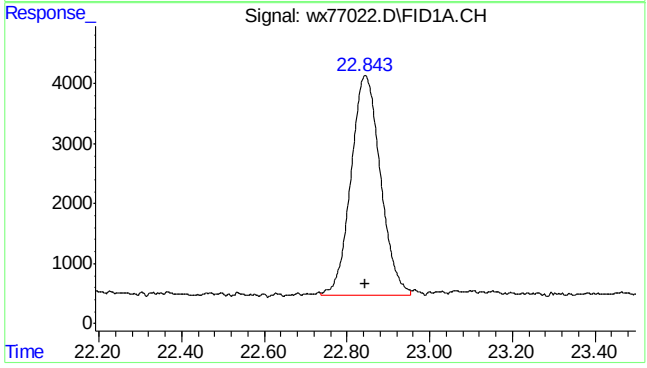
#13 ethylbenzene

R.T.: 21.889 min
Delta R.T.: 0.001 min
Response: 173902
Conc: 5.02 ppb m



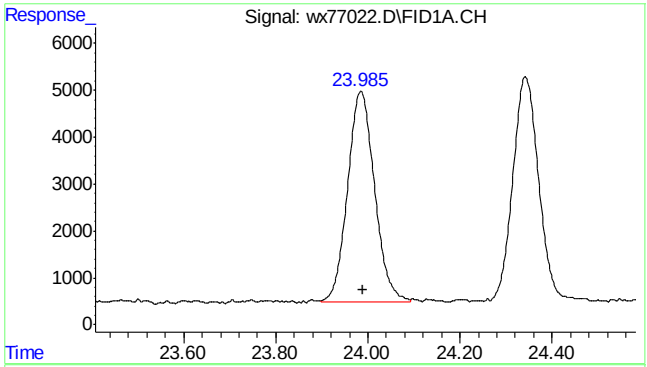
#14 m,p-xylene

R.T.: 22.037 min
Delta R.T.: 0.001 min
Response: 362950
Conc: 10.20 ppb



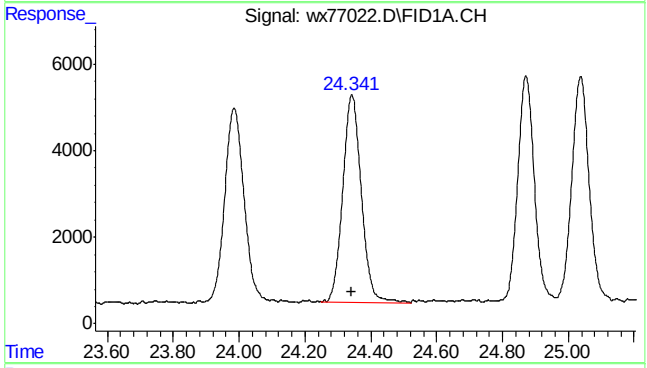
#15 o-xylene

R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 181696
Conc: 5.16 ppb m



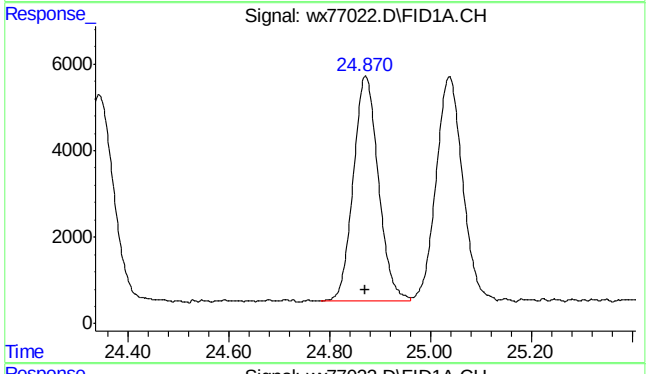
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 182417
Conc: 5.21 ppb m



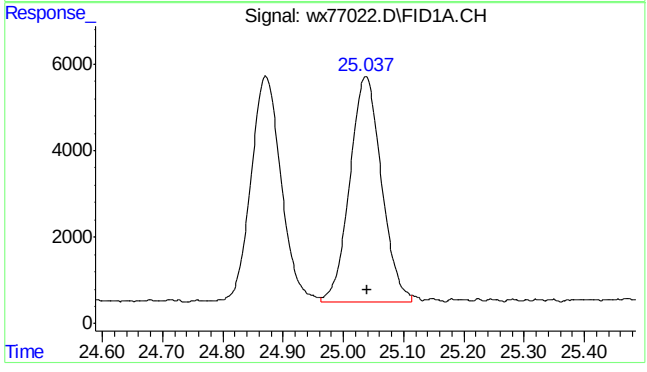
#17 1,3,5-trimethylbenzene

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 187866
Conc: 5.07 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 179869
Conc: 5.04 ppb



#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 189639
Conc: 5.23 ppb m

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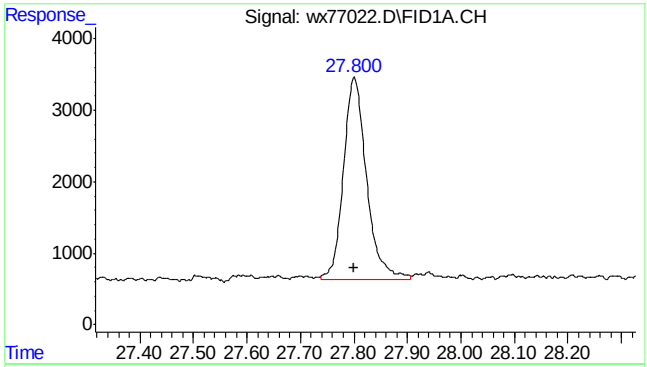
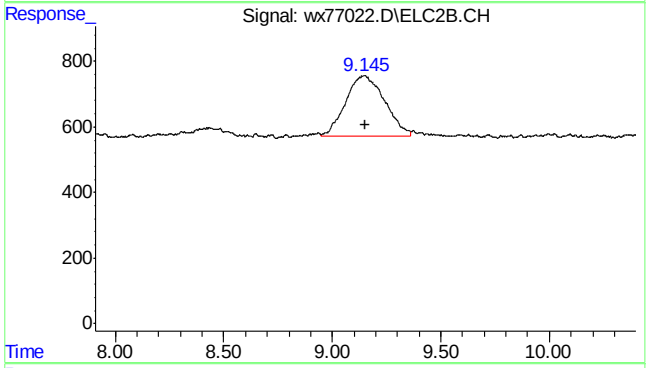


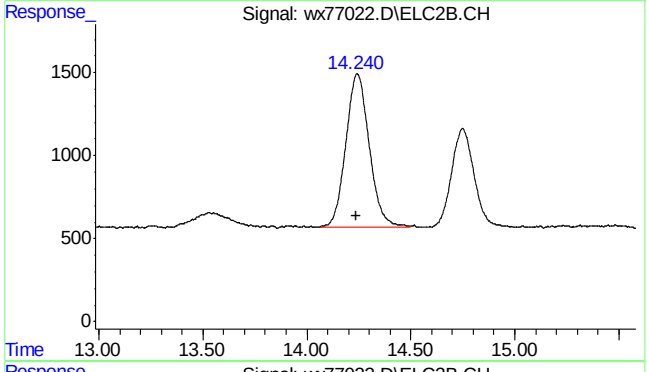
#20 naphthalene

R.T.: 27.800 min
Delta R.T.: 0.000 min
Response: 84812
Conc: 4.22 ppb m



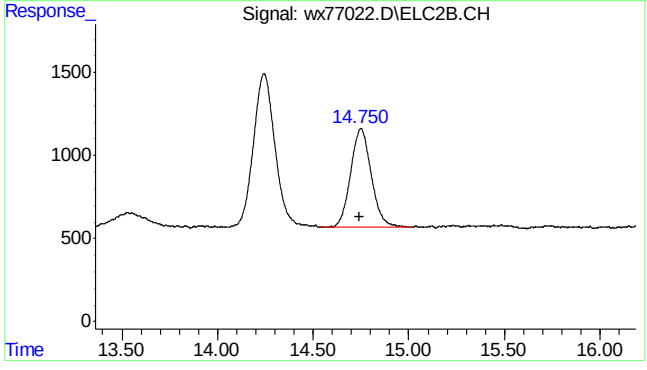
#23 mtbe #2

R.T.: 9.145 min
Delta R.T.: -0.007 min
Response: 23052
Conc: 5.15 ppb m



#24 benzene #2

R.T.: 14.240 min
Delta R.T.: 0.000 min
Response: 72274
Conc: 5.08 ppb m



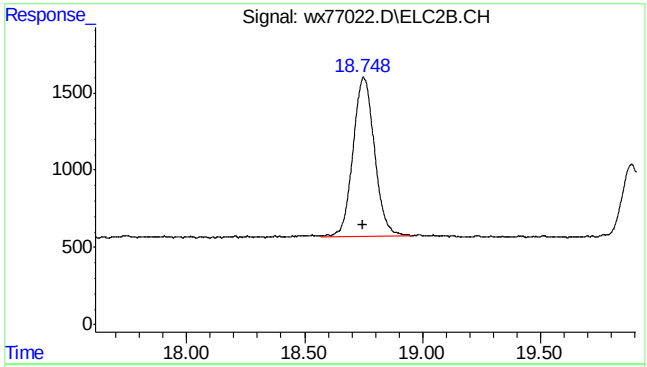
#25 fluorobenzene #2

R.T.: 14.749 min
Delta R.T.: 0.004 min
Response: 45111
Conc: 5.00 ppb

7.5.7

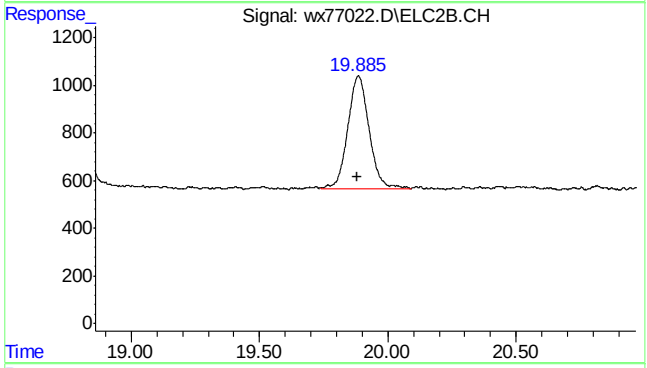
7

SGS ACCUTEST MC46423



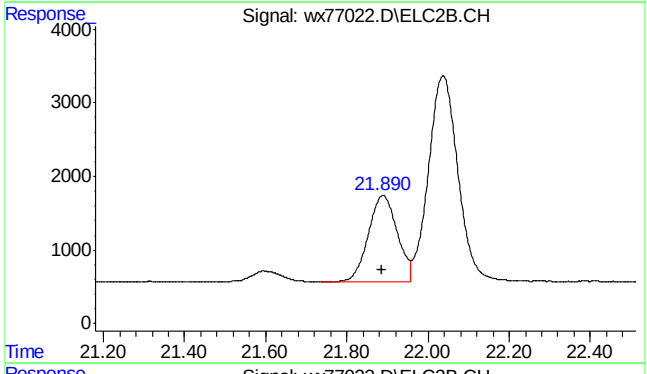
#26 toluene #2

R.T.: 18.750 min
Delta R.T.: 0.004 min
Response: 64987
Conc: 5.04 ppb



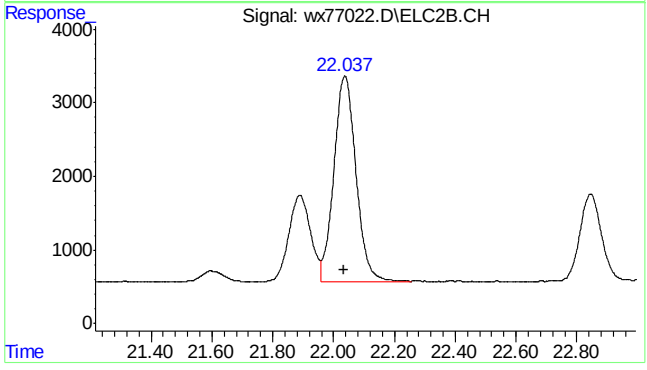
#27 2,3,4-trifluorotoluene #2

R.T.: 19.886 min
Delta R.T.: 0.007 min
Response: 27239
Conc: 5.12 ppb



#28 ethylbenzene #2

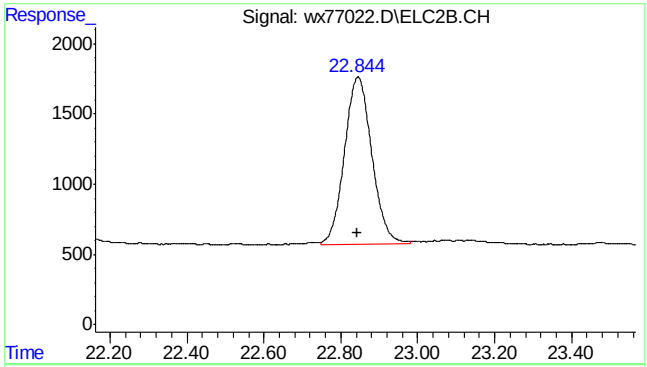
R.T.: 21.889 min
Delta R.T.: 0.002 min
Response: 58064
Conc: 5.07 ppb



#29 m,p-xylene #2

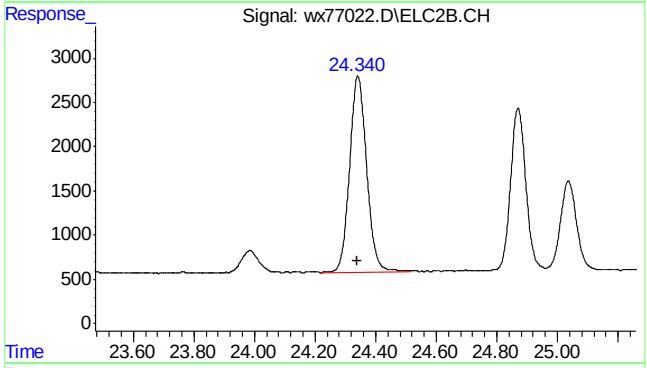
R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 141245
Conc: 10.09 ppb

SGS ACCUTEST MC46423



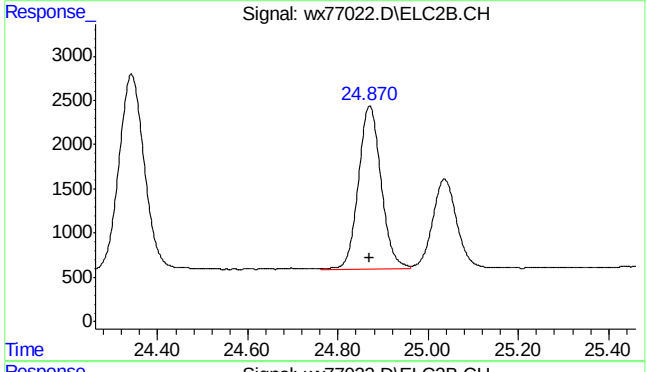
#30 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.001 min
Response: 58928
Conc: 5.02 ppb m



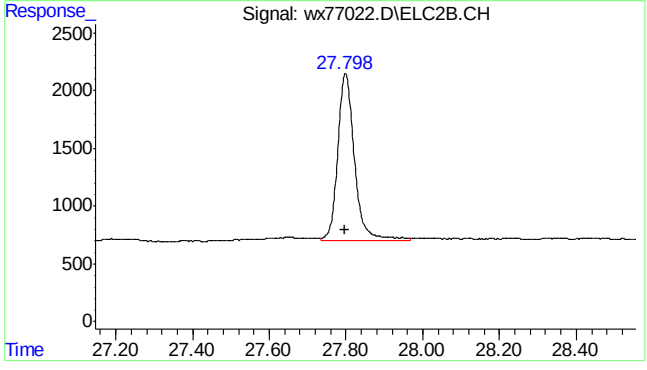
#31 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.000 min
Response: 86843
Conc: 5.03 ppb



#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 64583
Conc: 5.08 ppb



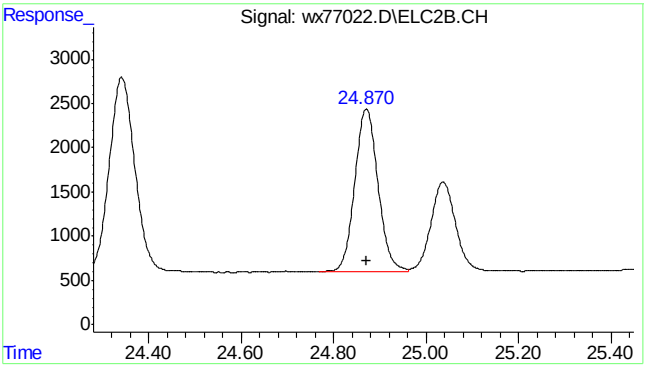
#33 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 44461
Conc: 4.37 ppb m

7.5.7

7

SGS ACCUTEST MC46423




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

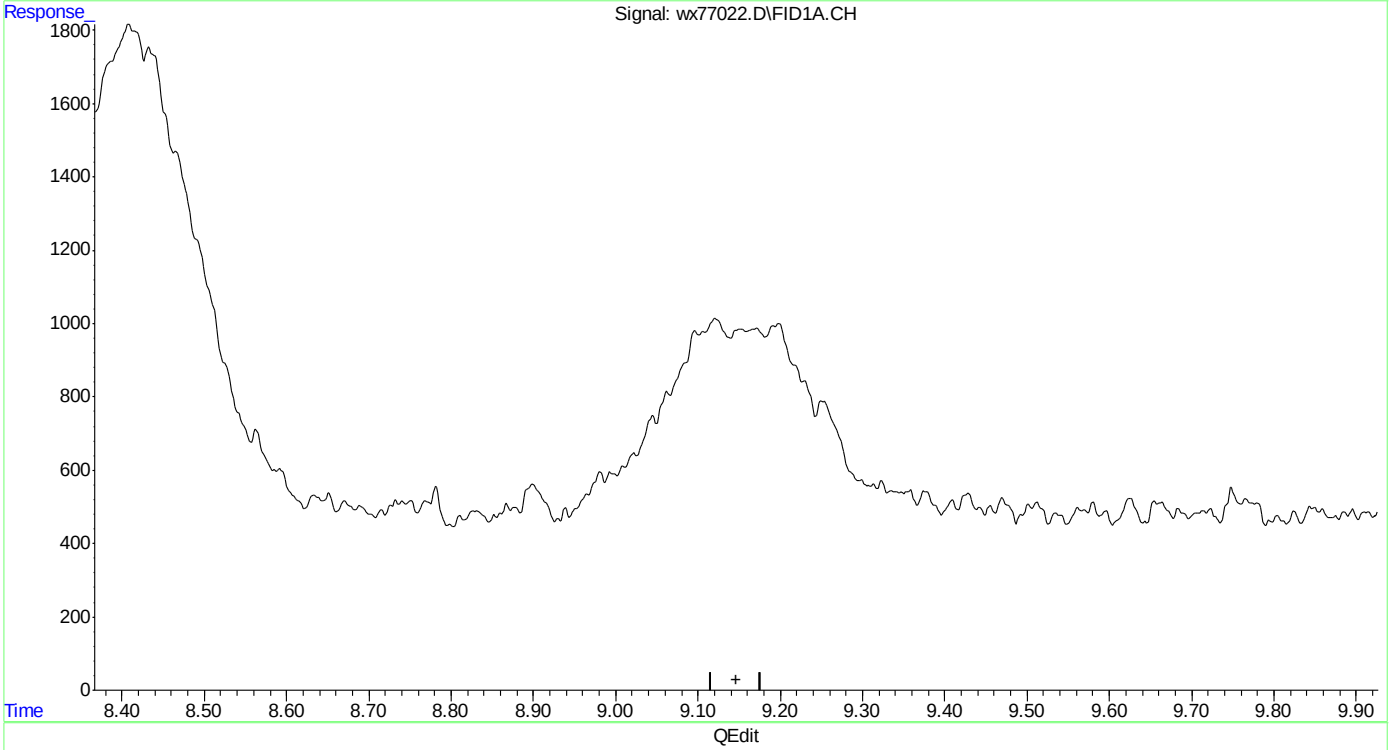
      R.T.:   24.870 min
Delta R.T.:    0.000 min
  Response:     64428
      Conc:   5.07 ppb m
```

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.147min 0.000 ppb
response 0

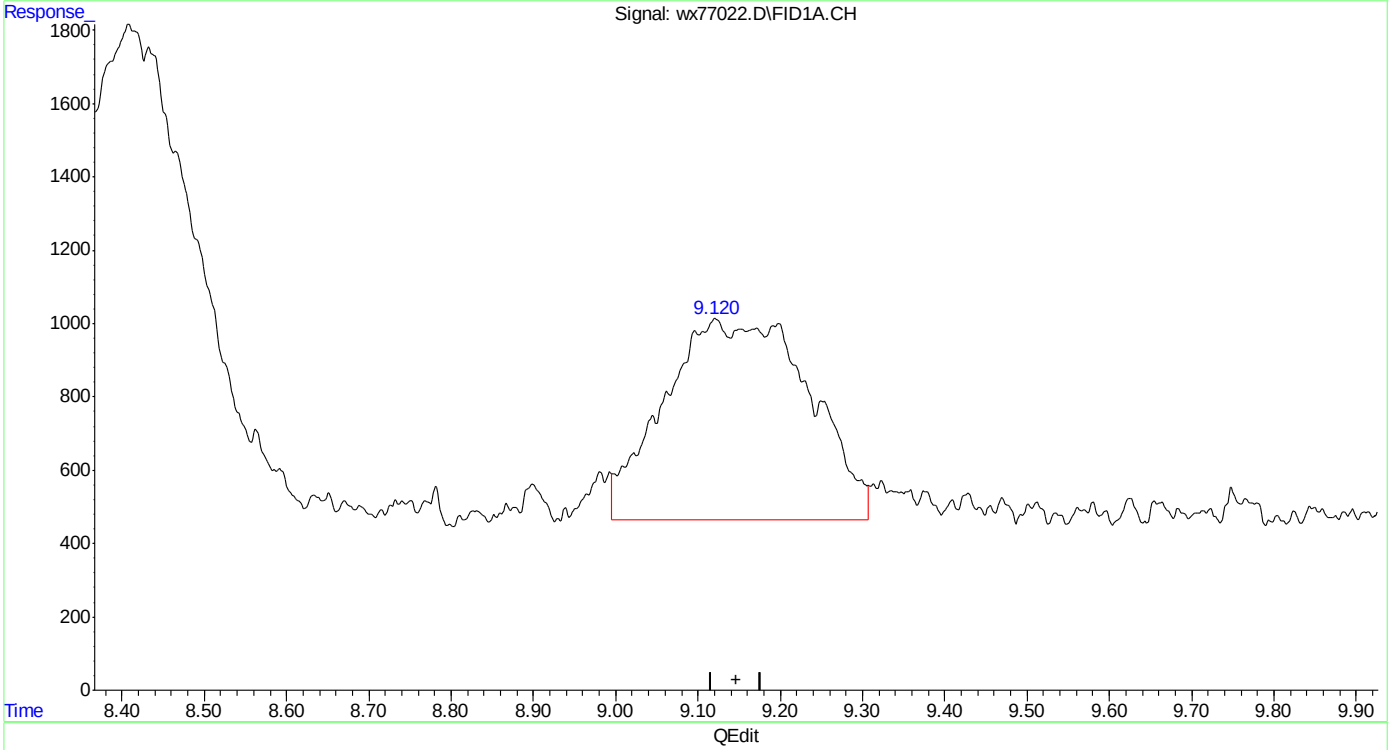
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:49:56 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.120min 5.069 ppb m
response 67435

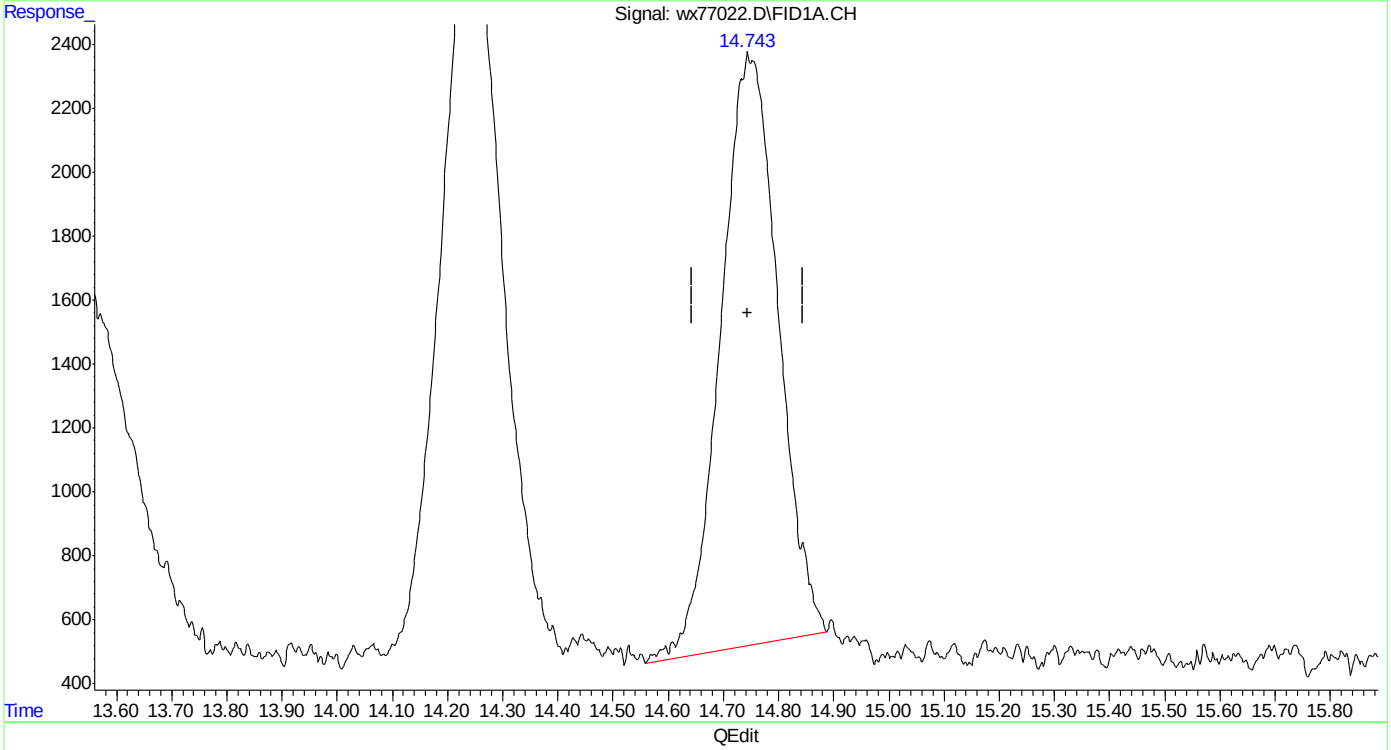
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.745min 4.774 ppb
response 133838

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:21 2016

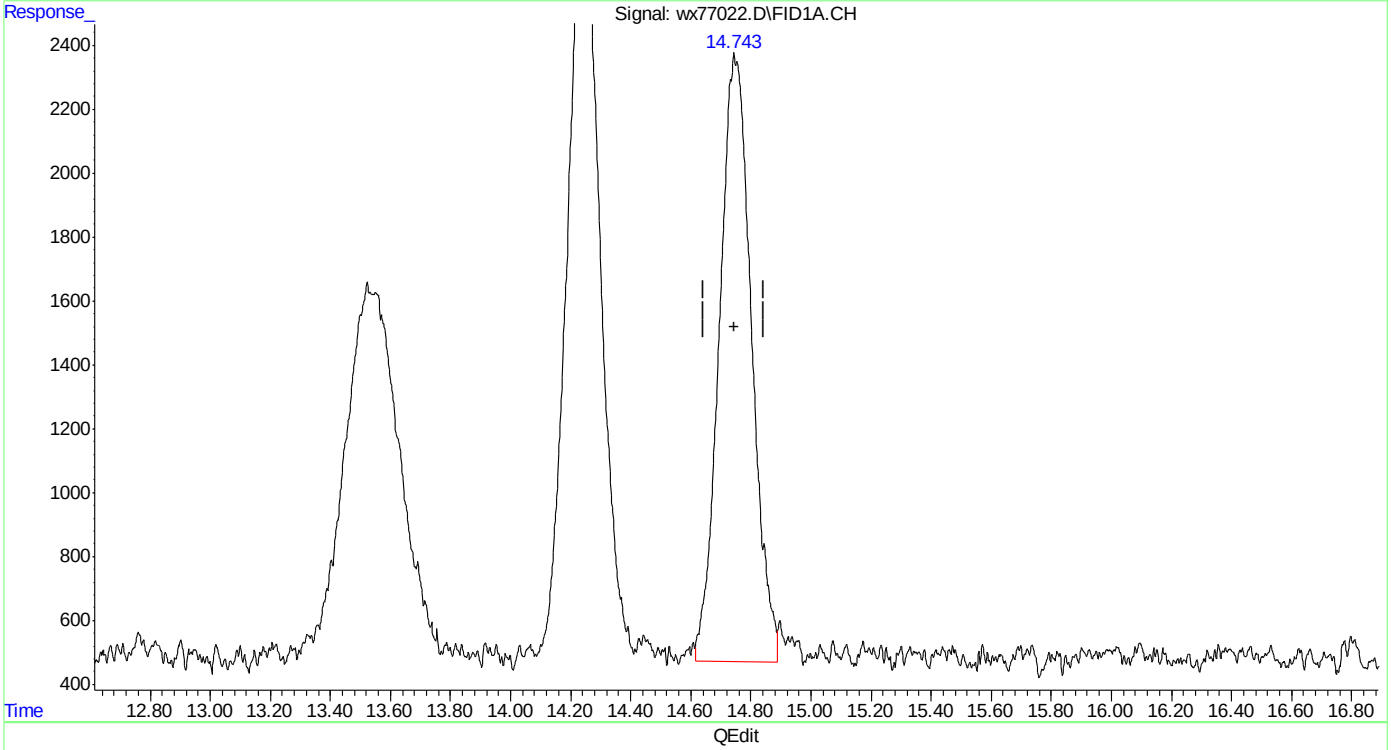
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.743min 5.046 ppb m
response 141446

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:50:48 2016

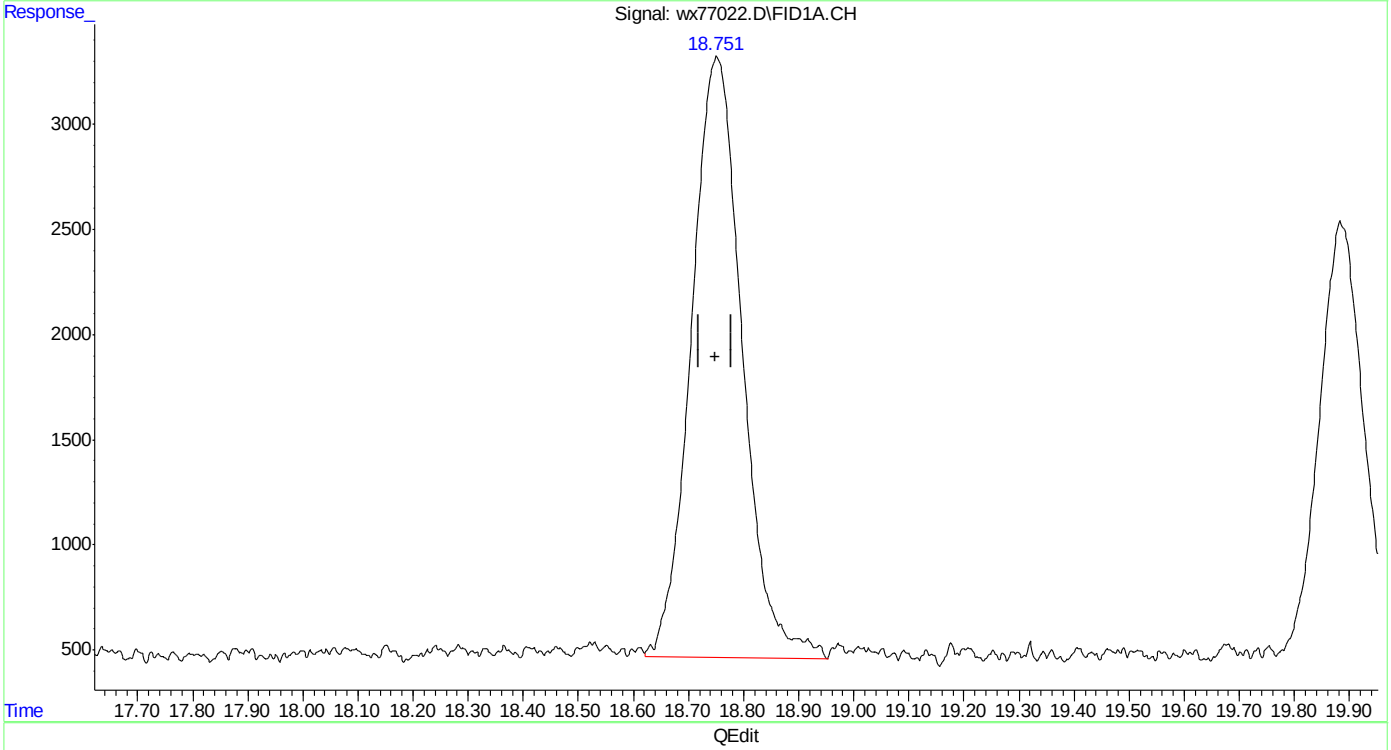
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.752min 5.233 ppb
response 183144

(+) = Expected Retention Time

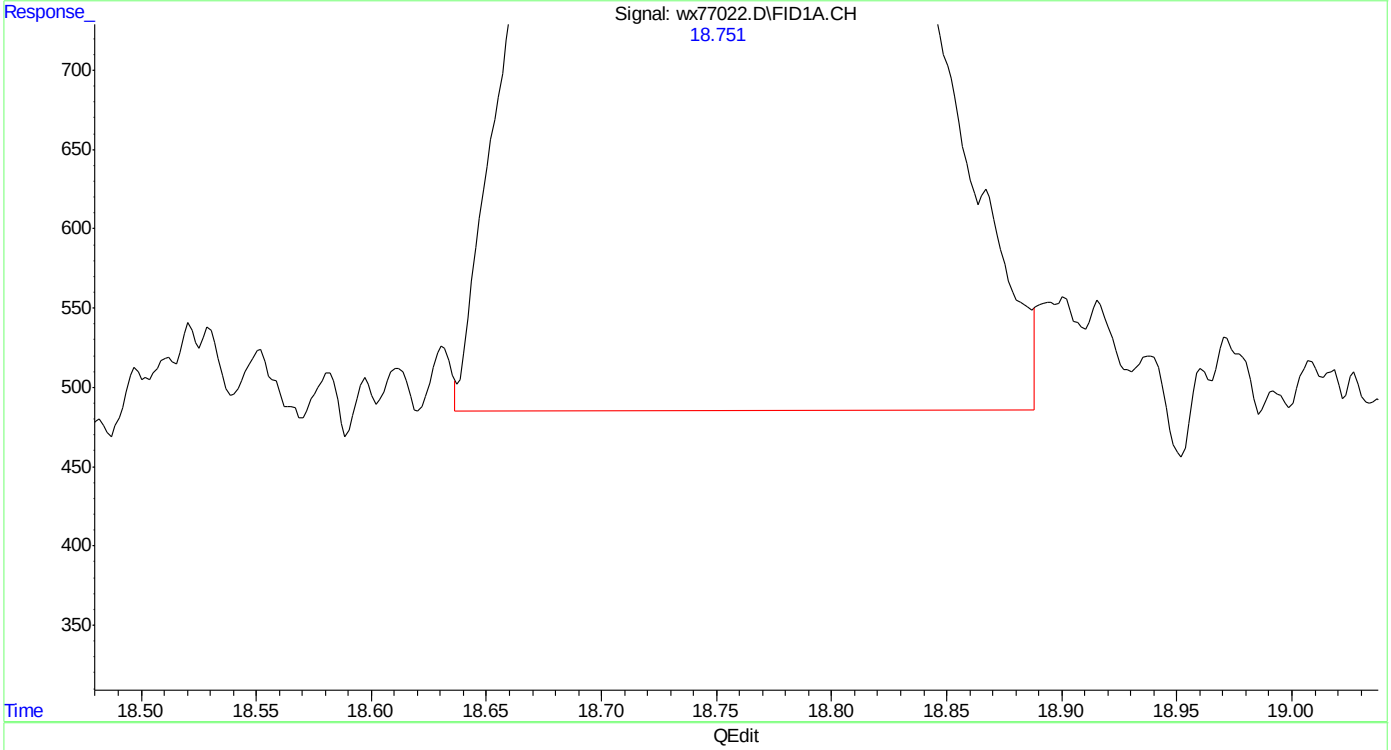
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.751min 5.050 ppb m
response 176758

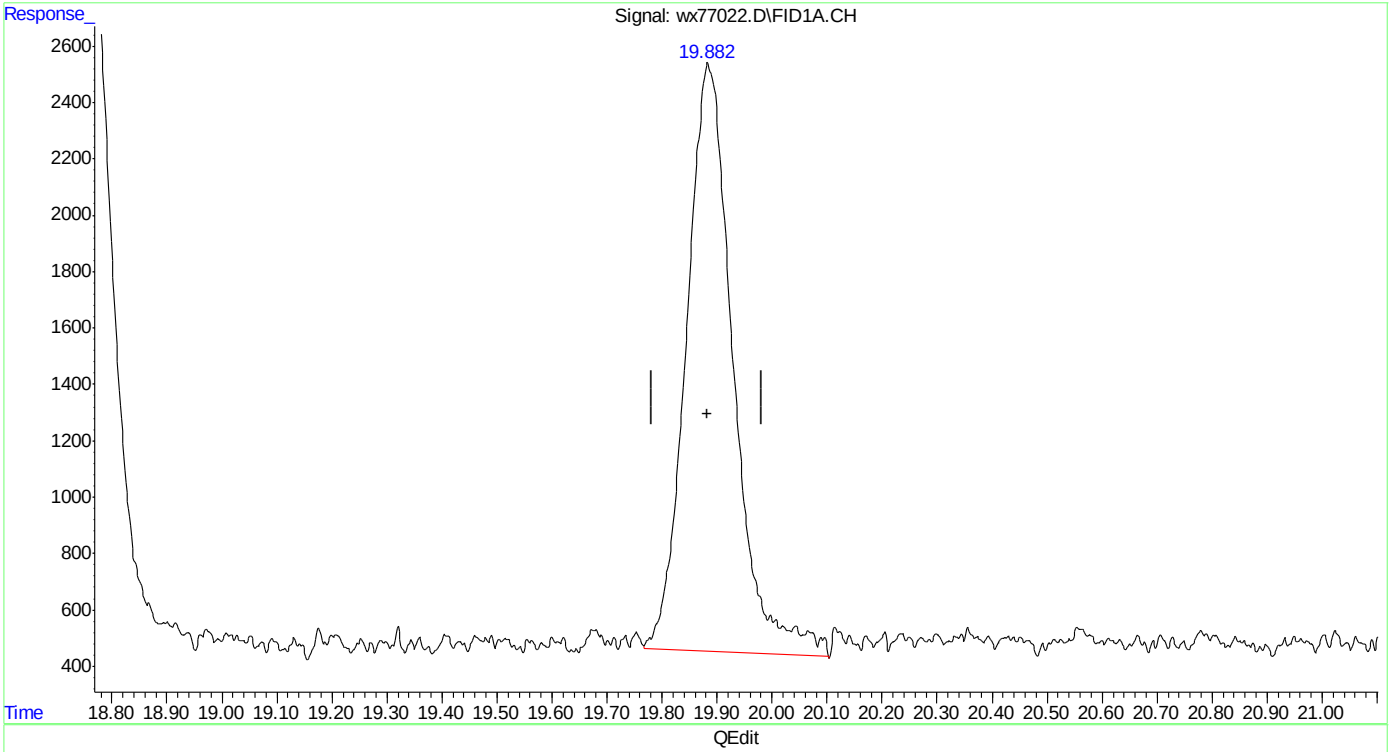
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:05 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 5.457 ppb
response 123229

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:09 2016

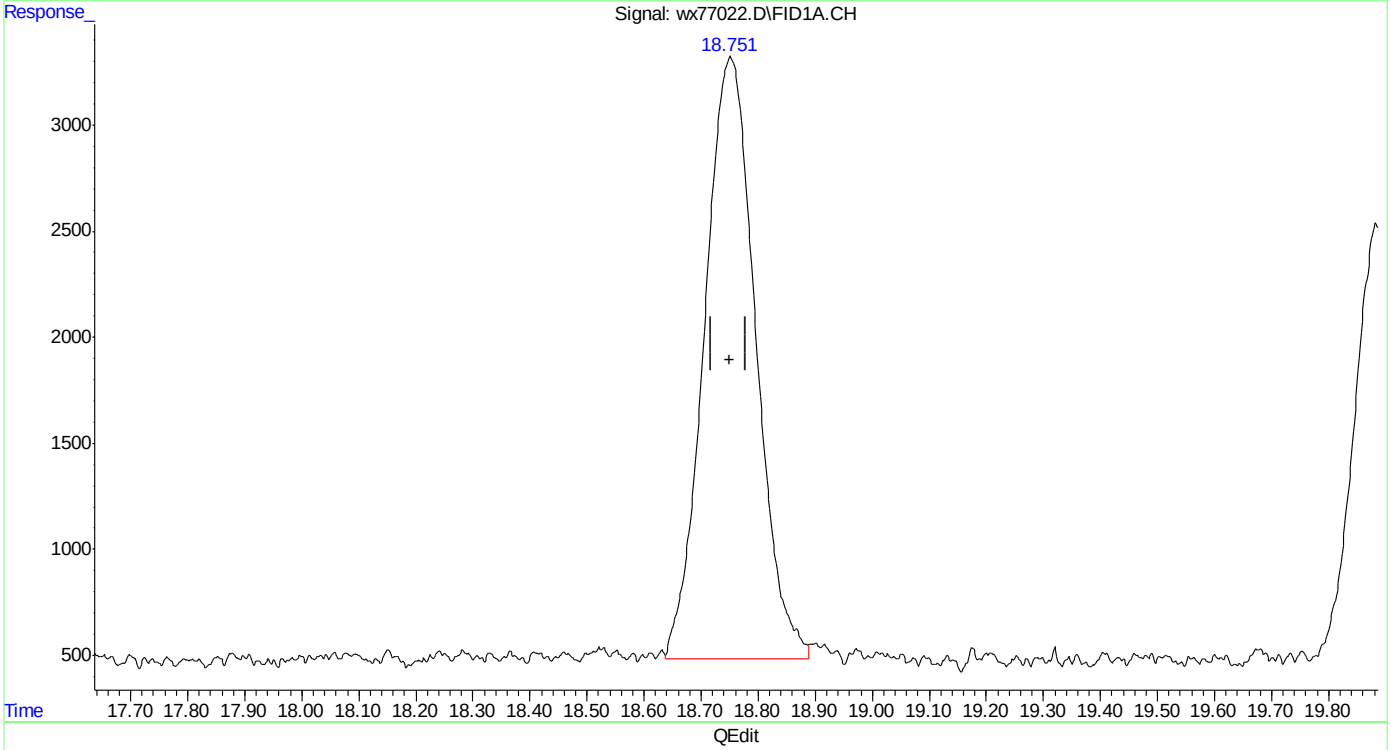
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.751min 5.050 ppb m
response 176758

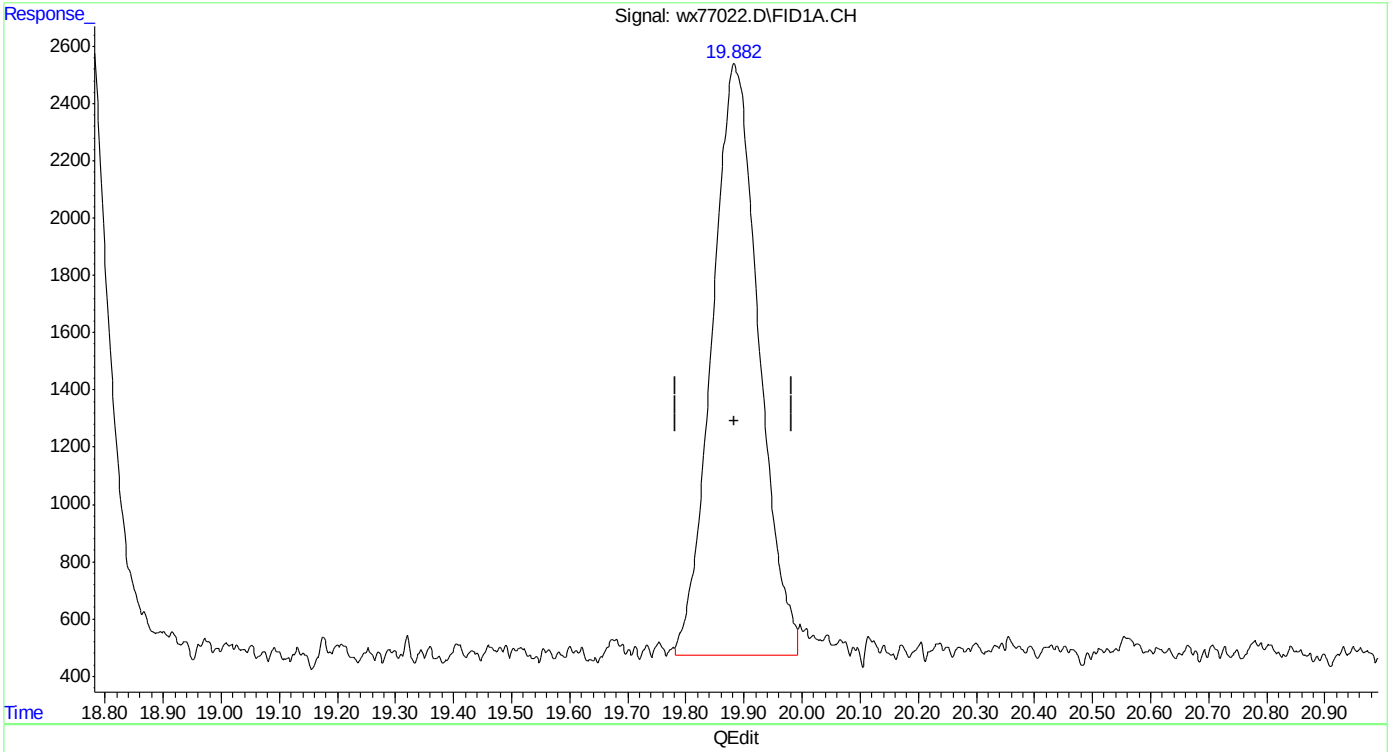
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:51:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.882min 5.104 ppb m
response 115265

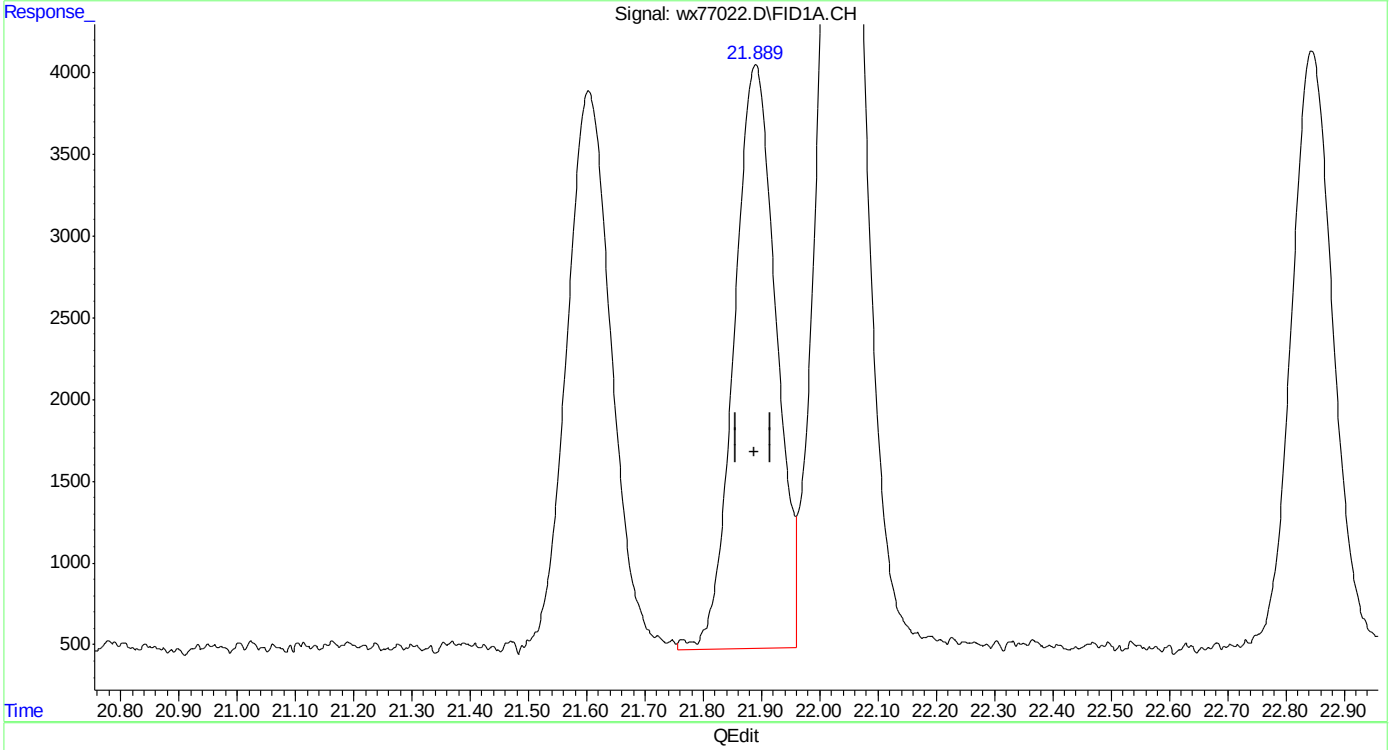
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.890min 5.135 ppb
response 177800

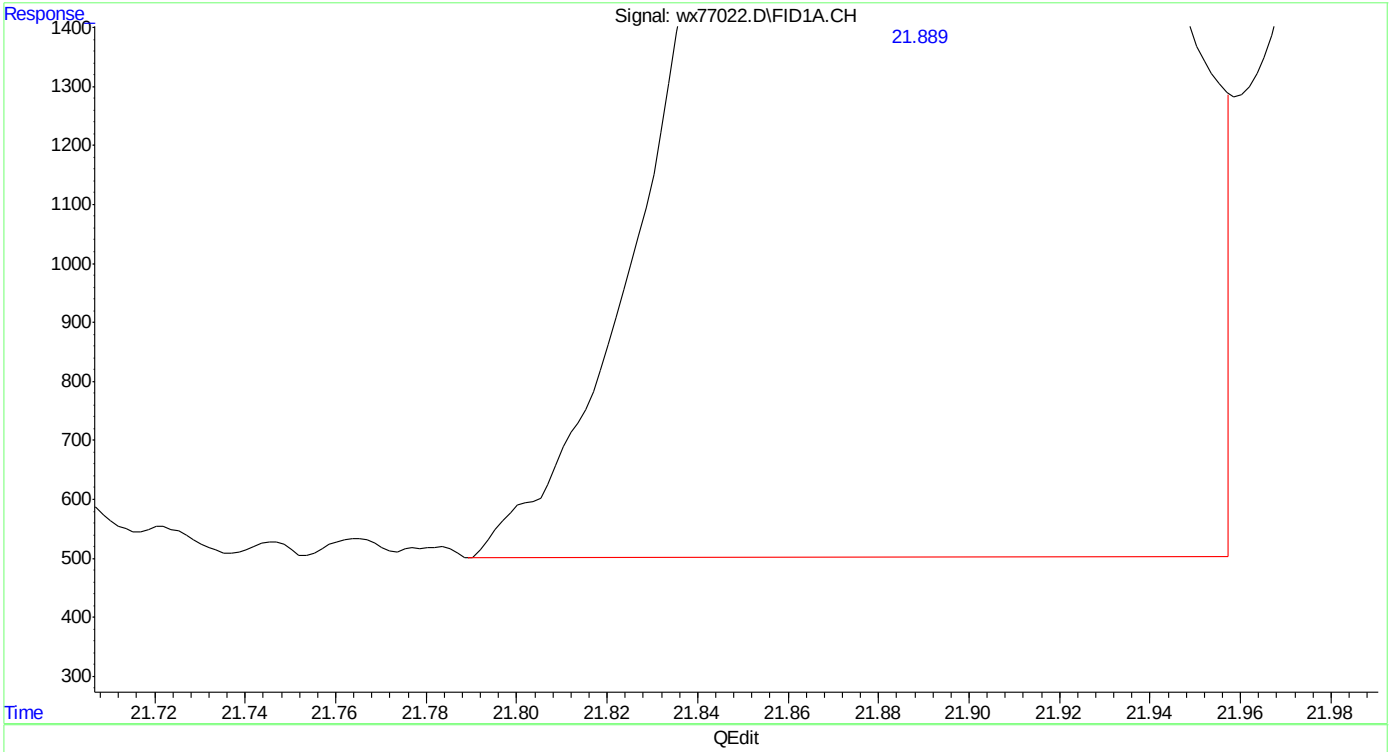
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.889min 5.022 ppb m
response 173902

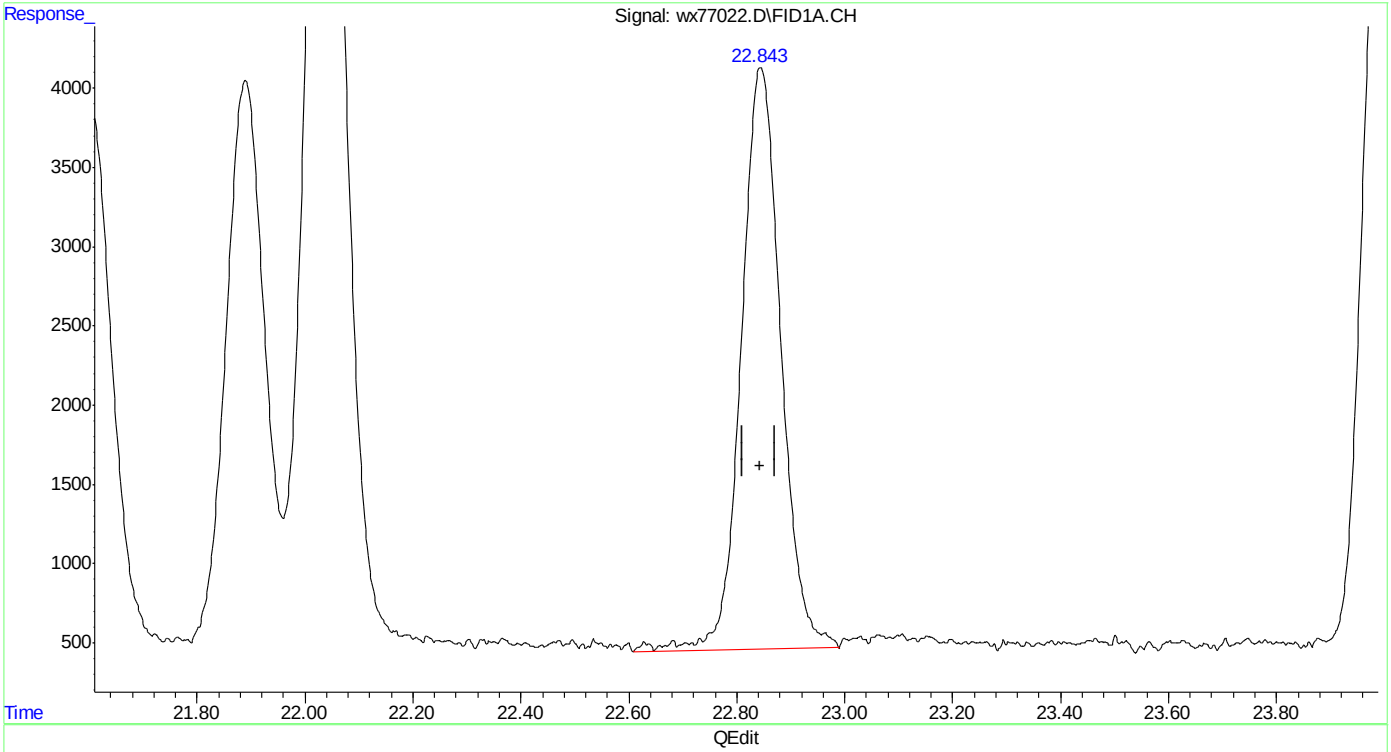
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.845min 5.322 ppb
response 187408

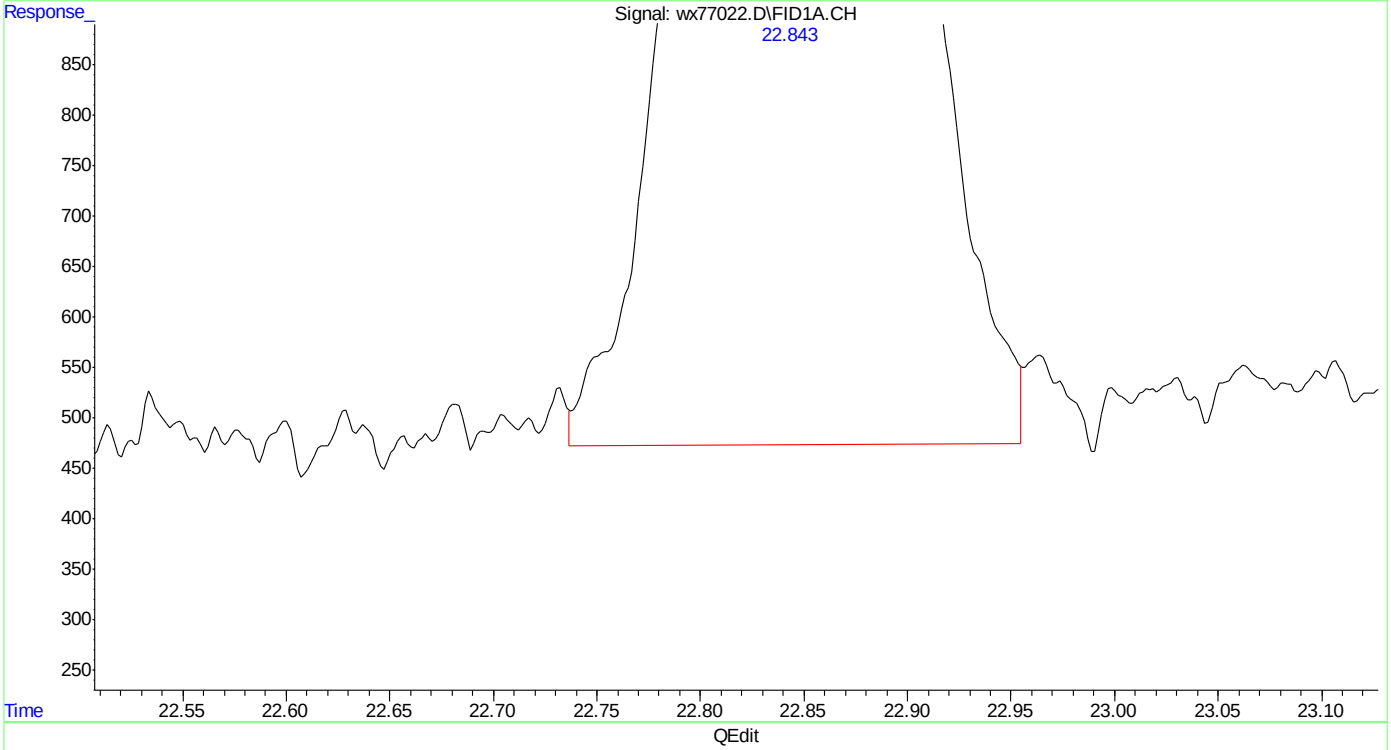
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.843min 5.160 ppb m
response 181696

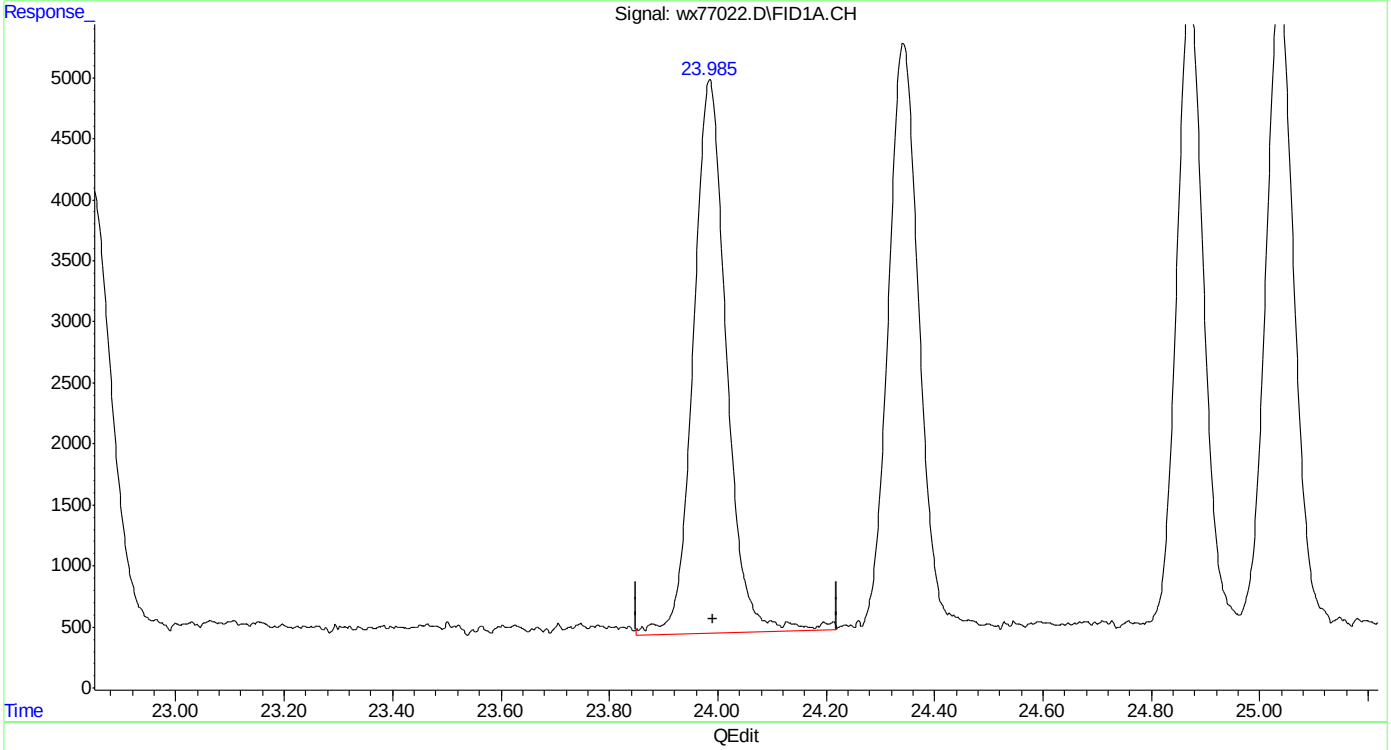
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 5.504 ppb
response 192541

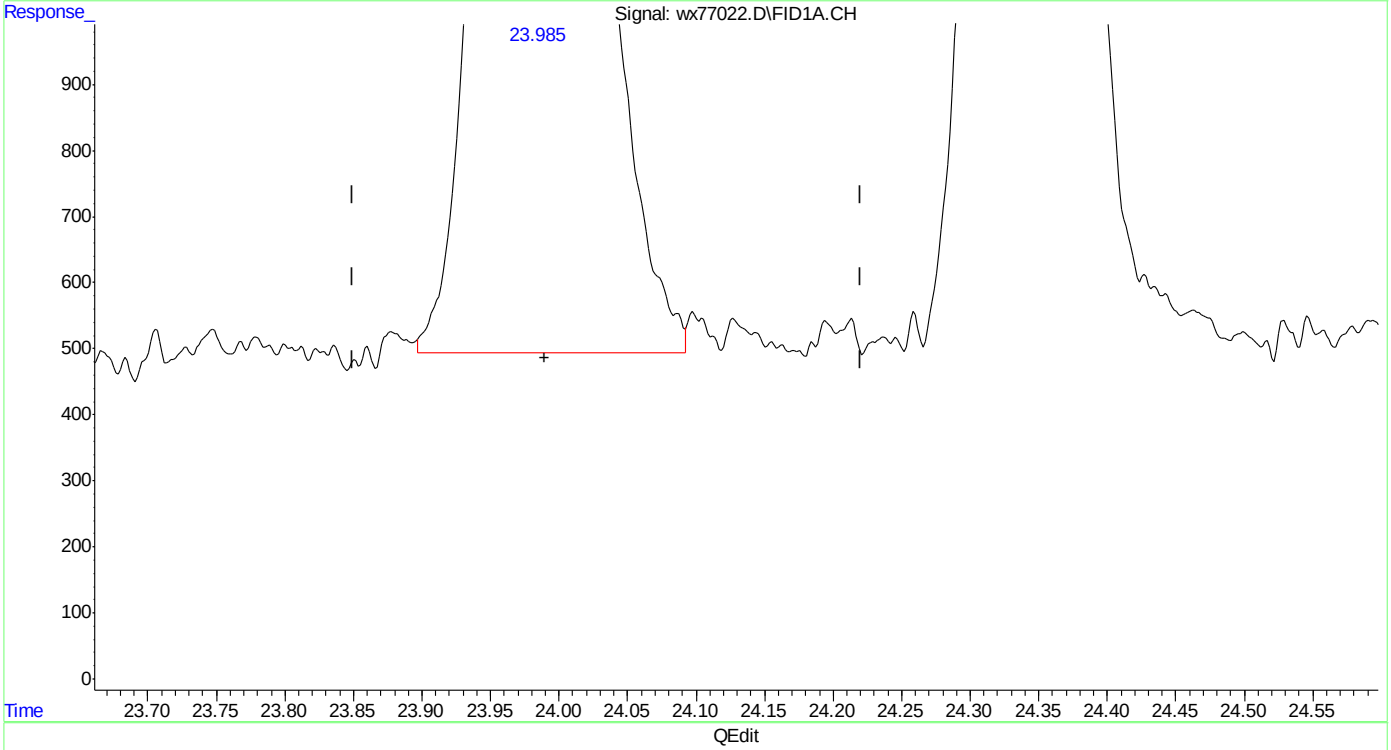
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:28 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 5.215 ppb m
response 182417

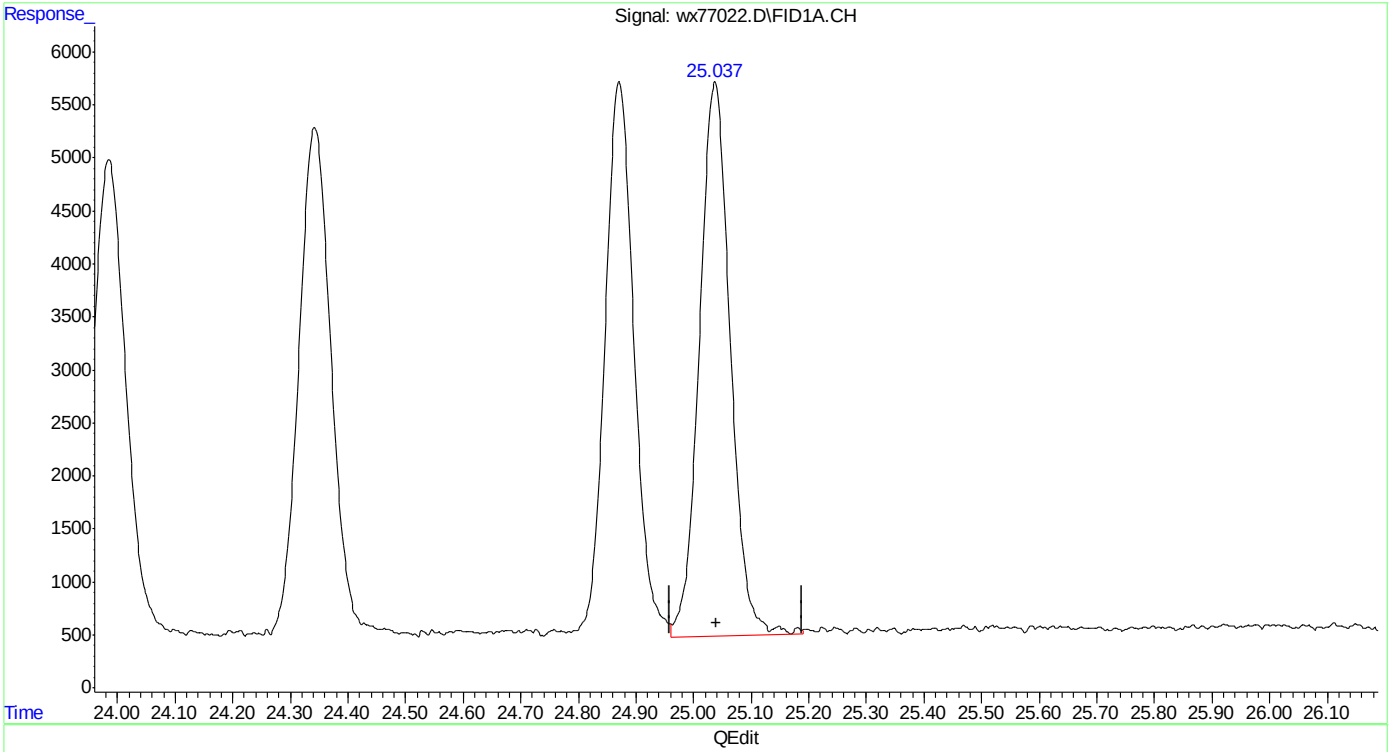
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 5.366 ppb
response 194543

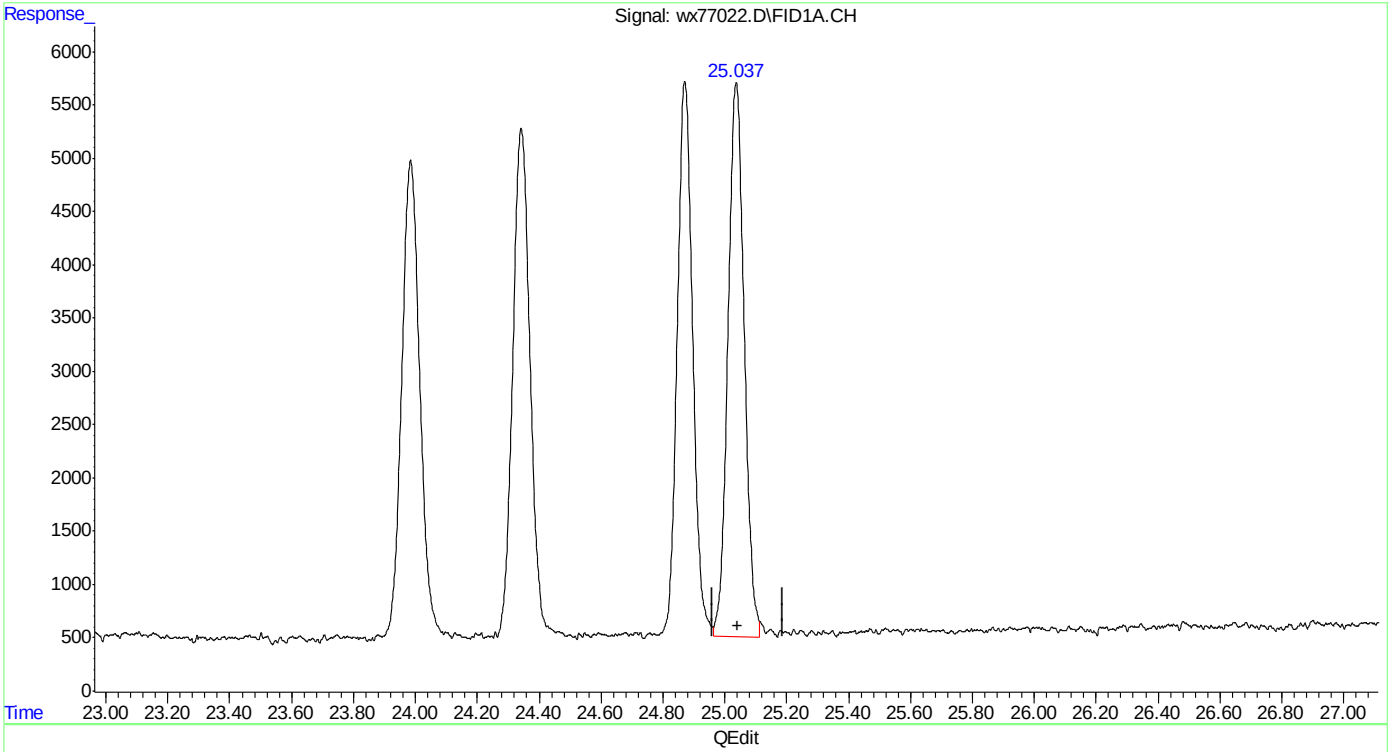
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:46 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 5.231 ppb m
response 189639

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:52:58 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(20) naphthalene
27.801min 4.035 ppb
response 81157

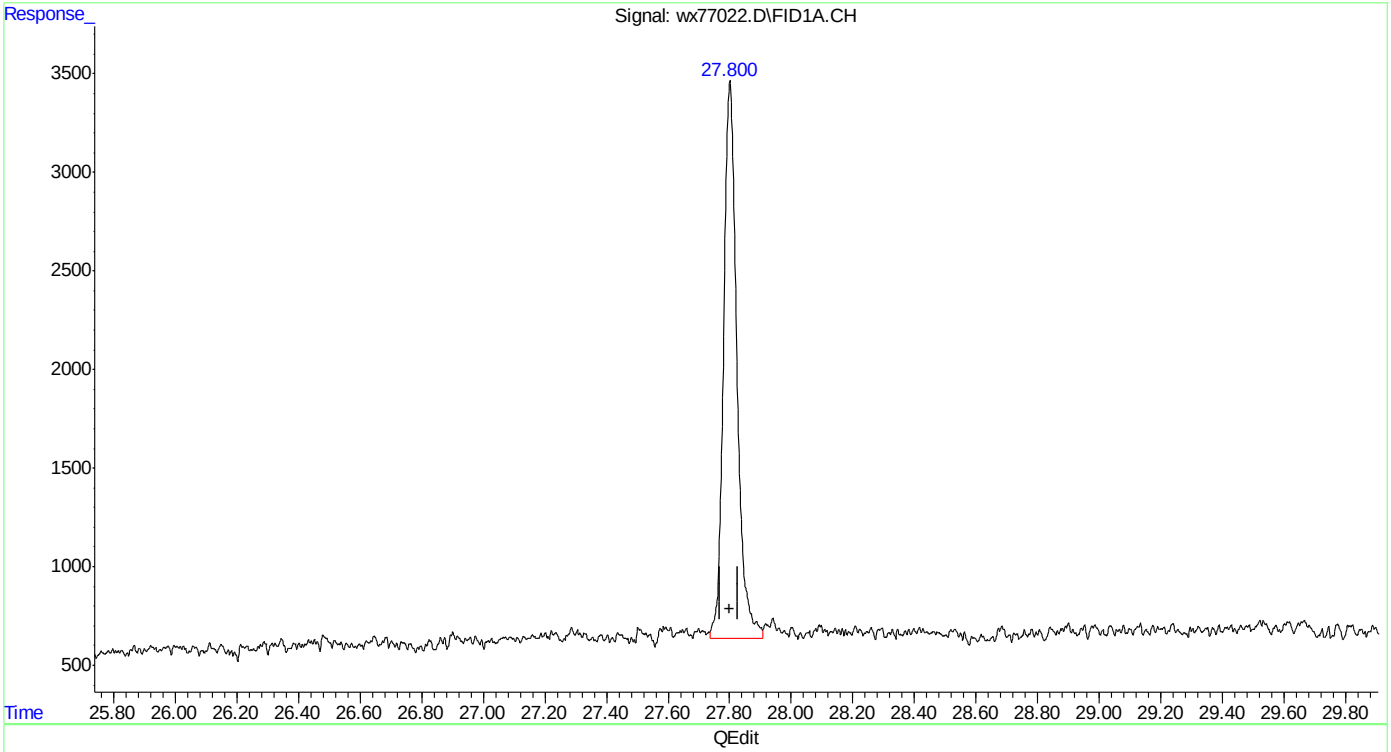
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 4.217 ppb m
response 84812

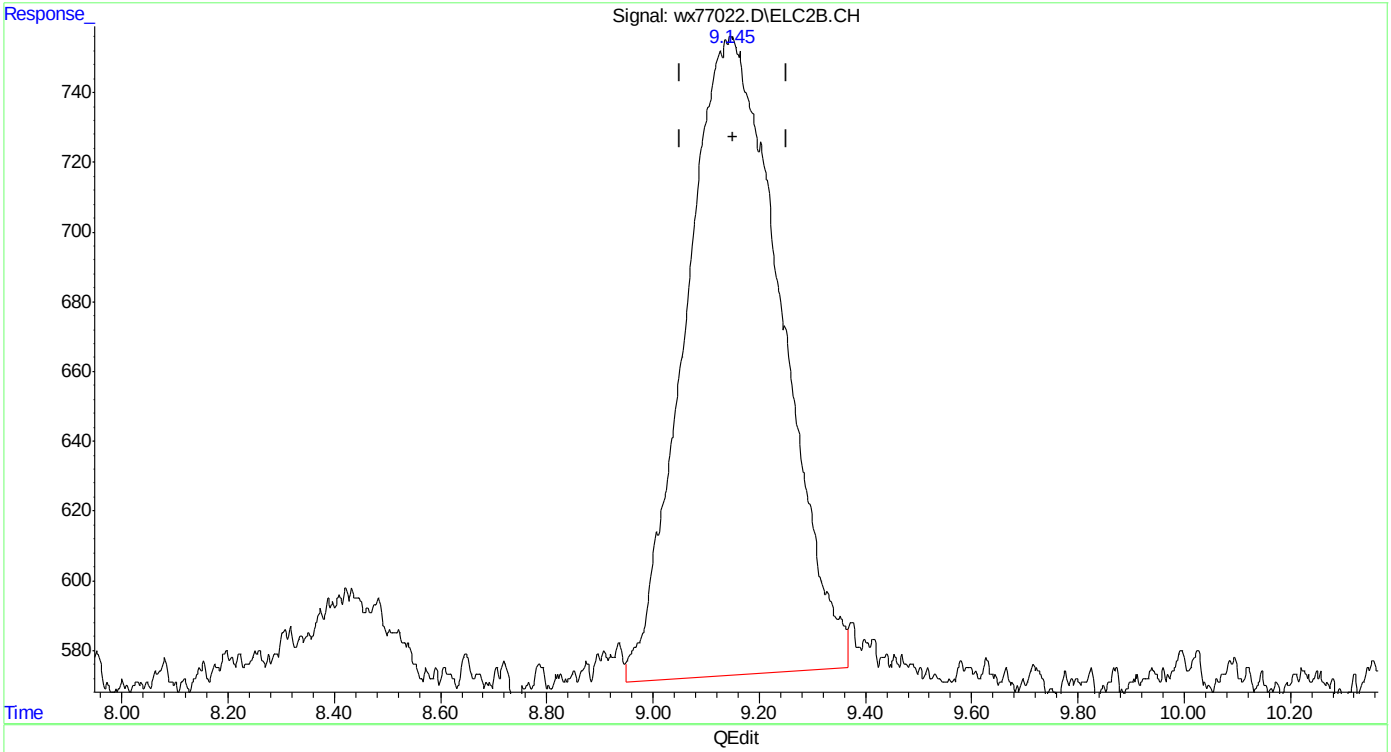
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.148min 5.071 ppb
response 22713

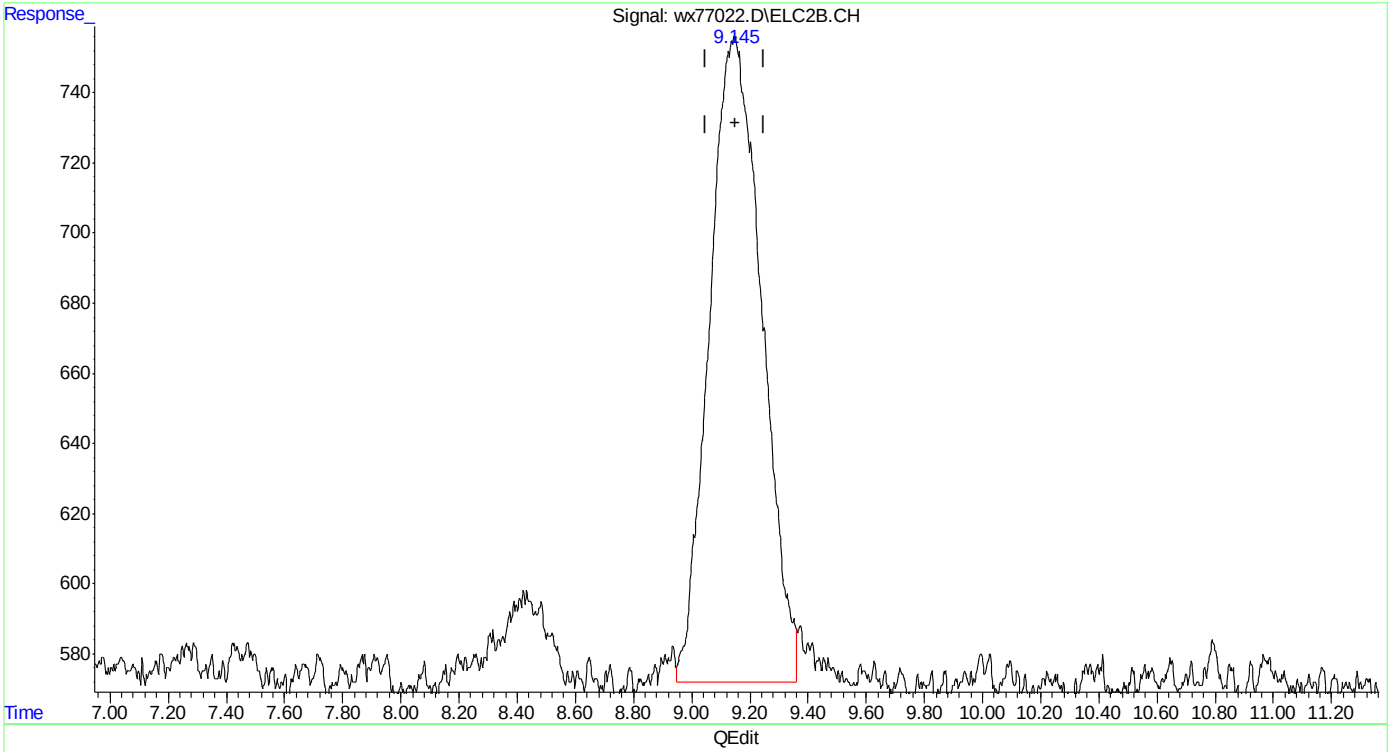
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.145min 5.146 ppb m
response 23052

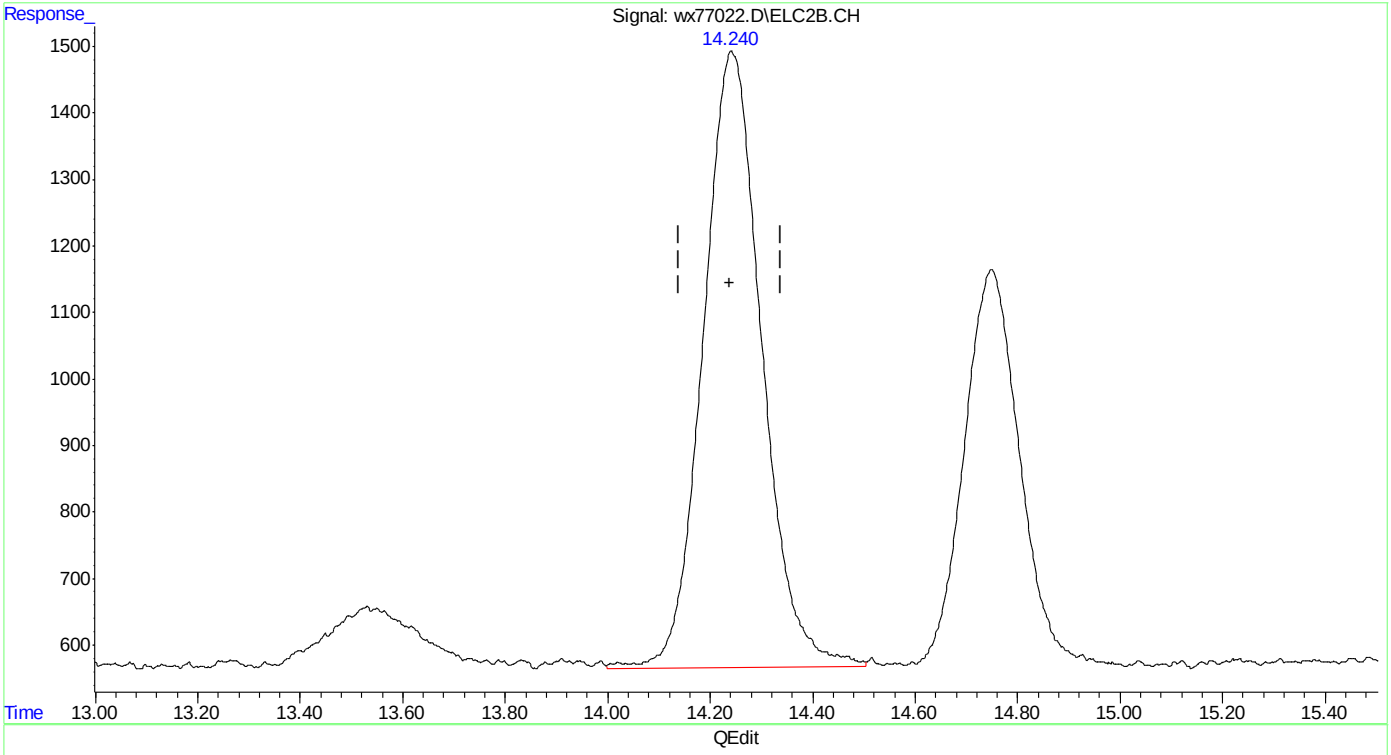
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.241min 5.168 ppb
response 73525

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:37 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  11:14 am
Operator  : tonyf
Sample    : ic3782-5,gv16402
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 7   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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

(24) benzene #2

14.240min 5.080 ppb m

response 72274

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 11:53:43 2016 Page: 1

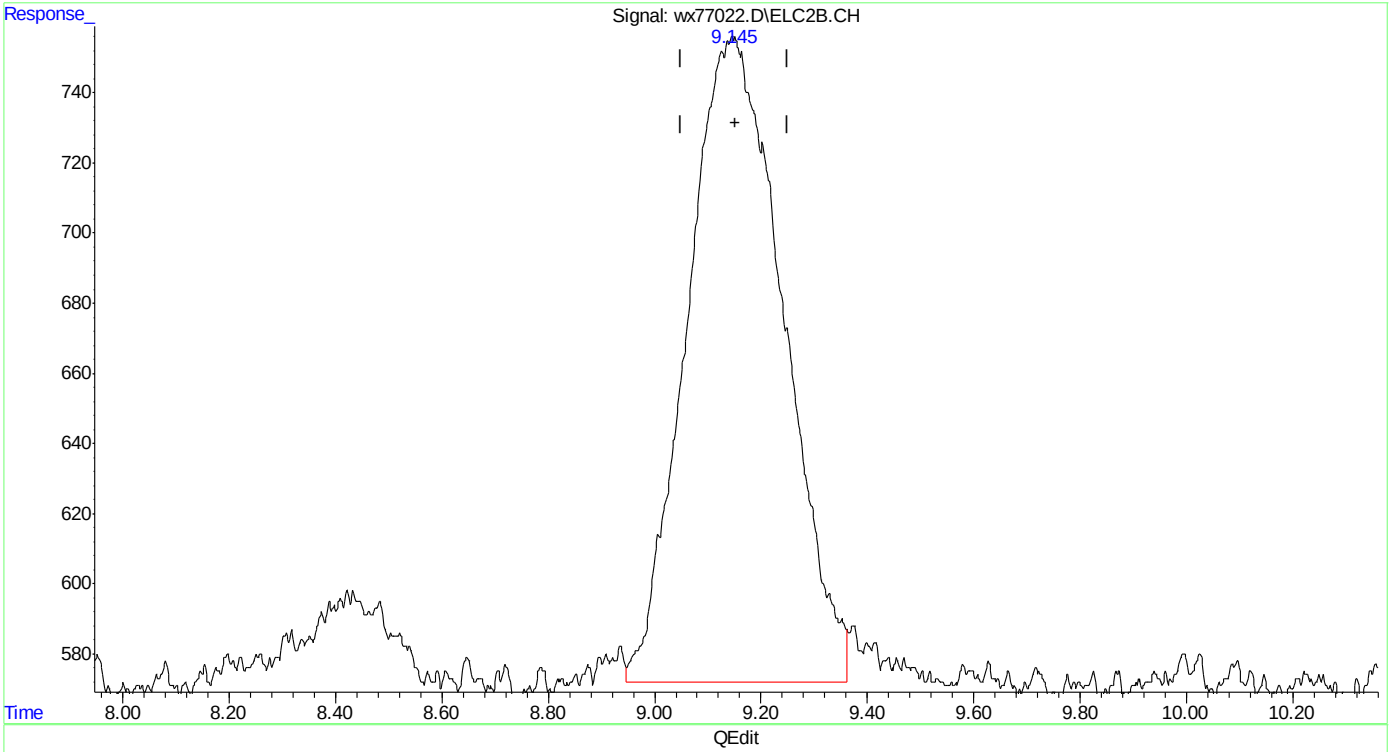
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.145min 5.146 ppb m
response 23052

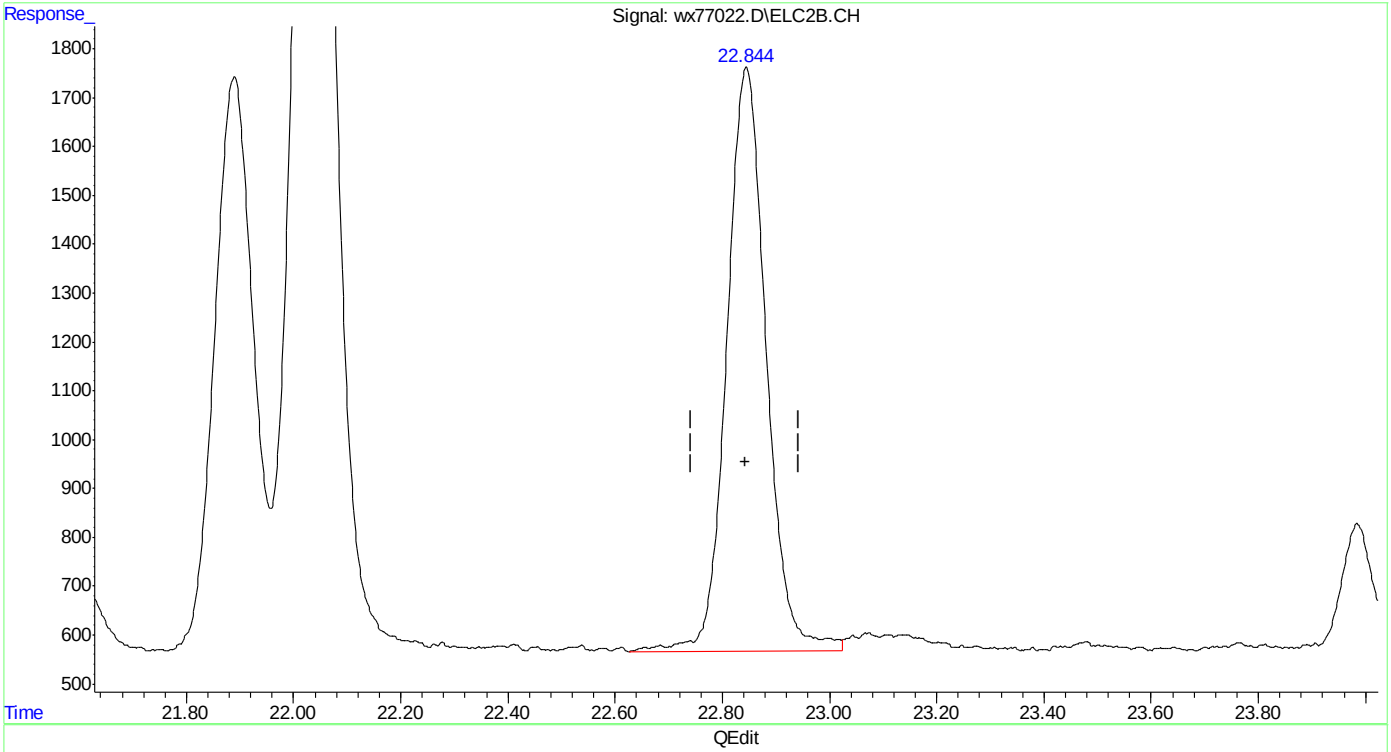
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:53:47 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.845min 5.194 ppb
response 60980

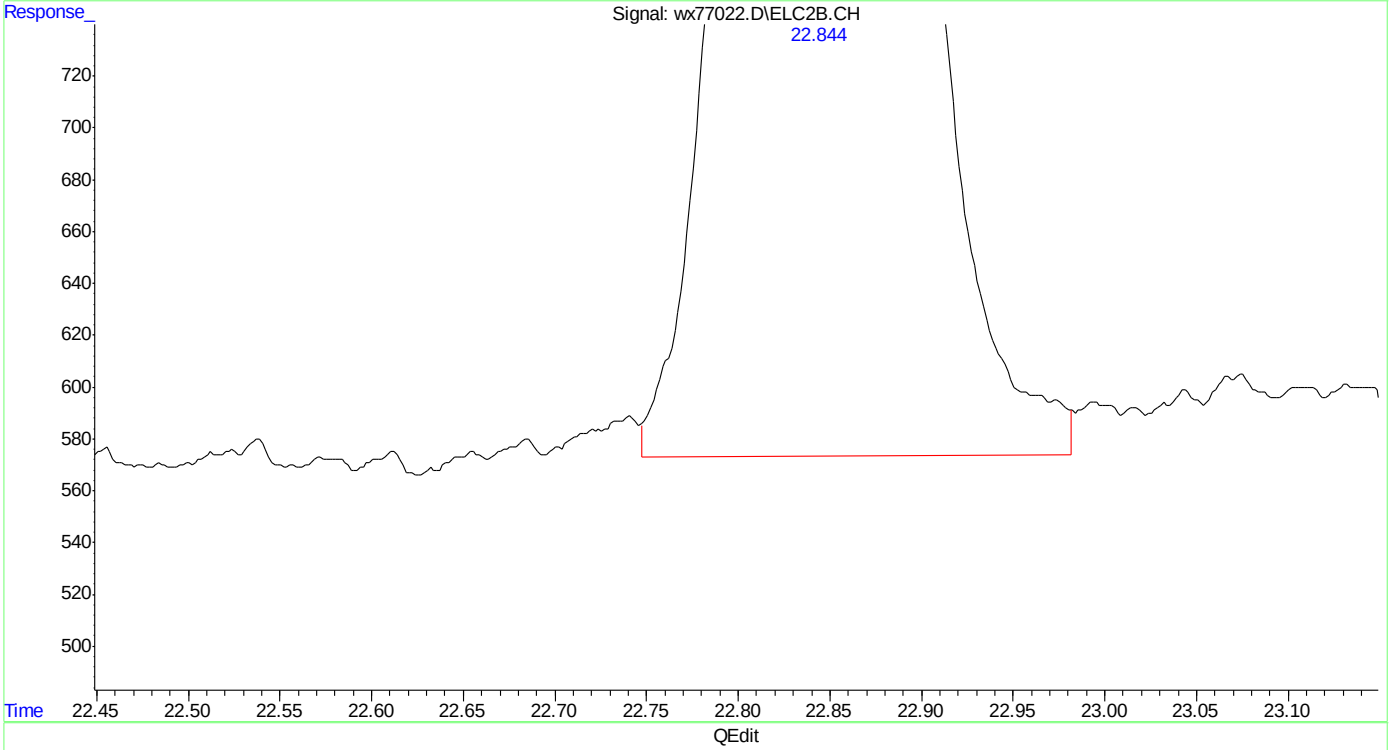
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.844min 5.019 ppb m
response 58928

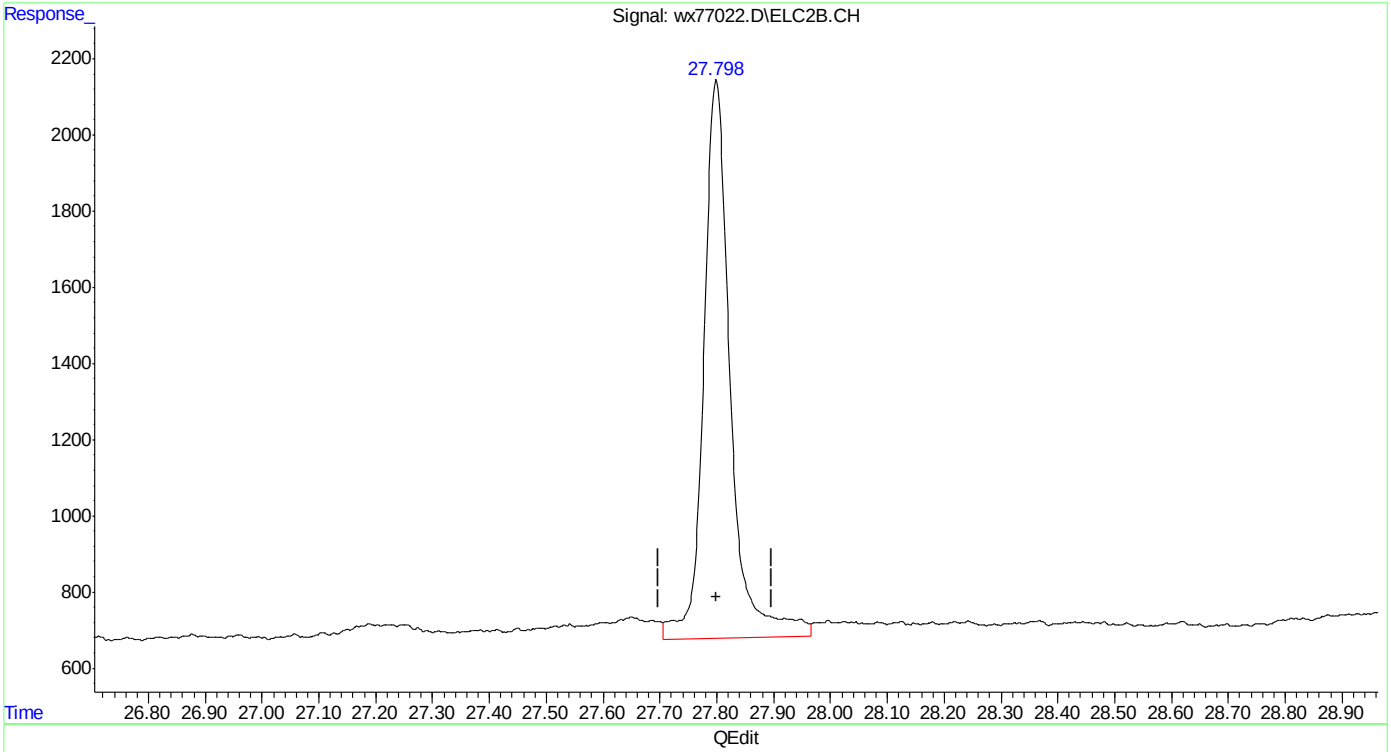
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.799min 4.724 ppb
response 48110

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:16 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77022.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:14 am
Operator : tonyf
Sample : ic3782-5,gv16402
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 7 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 11:49:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 11:48:24 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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

(33) naphthalene #2
27.798min 4.365 ppb m
response 44461

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 11:54:31 2016

SGS ACCUTEST MC46423

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:18 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.742	55966	1.988 ppb	m
Spiked Amount 50.000		Recovery =	3.98%	
9) s 2,3,4-trifluorotoluene	19.880	49232	2.178 ppb	m
Spiked Amount 50.000		Recovery =	4.36%	
25) s fluorobenzene #2	14.748	18258	2.023 ppb	
Spiked Amount 50.000		Recovery =	4.05%	
27) s 2,3,4-trifluorotoluen...	19.885	11698	2.197 ppb	m
Spiked Amount 50.000		Recovery =	4.39%	
Target Compounds				
1) h rt5.5-7	6.100	44675	1.993 ppb	
2) h rt7/10	8.370	57323	1.973 ppb	
3) mtbe	9.165f	26685	2.027 ppb	m
4) h rt10/13	13.510	57225	2.182 ppb	
5) benzene	14.247	70953	1.997 ppb	m
8) toluene	18.749	70423	2.018 ppb	
11) h rt20/25	21.600	93236	2.771 ppb	
13) ethylbenzene	21.887	70038	2.033 ppb	m
14) m,p-xylene	22.037	143939	4.047 ppb	
15) o-xylene	22.843	72250	2.048 ppb	
16) h Decane	23.990	97419	2.838 ppb	
17) t 1,3,5-trimethylbenzene	24.341	77869	2.103 ppb	
18) 1,2,4-trimethylbenzene	24.871	75016	2.117 ppb	
19) h Butylcyclohexane	25.040	101787	2.843 ppb	
20) naphthalene	27.798	27696	1.414 ppb	m
23) mtbe #2	9.141	9552	2.141 ppb	m
24) benzene #2	14.240	29057	2.041 ppb	
26) toluene #2	18.746	26841	2.082 ppb	m
28) ethylbenzene #2	21.886	23795	2.078 ppb	
29) m,p-xylene #2	22.034	58894	4.225 ppb	
30) o-xylene #2	22.842	23056	1.970 ppb	
31) t 1,3,5-trimethylbenzen...	24.340	35838	2.085 ppb	m
32) 1,2,4-trimethylbenzen...	24.868	26438	2.080 ppb	m
33) naphthalene #2	27.797	15632	1.569 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	26461	2.084 ppb	

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
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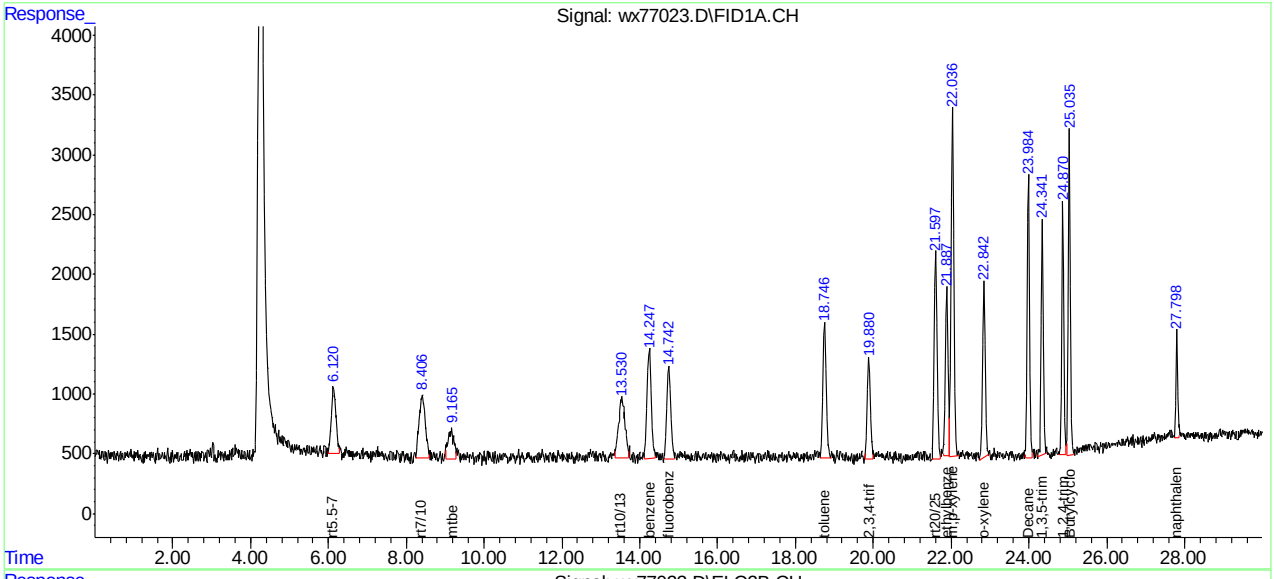
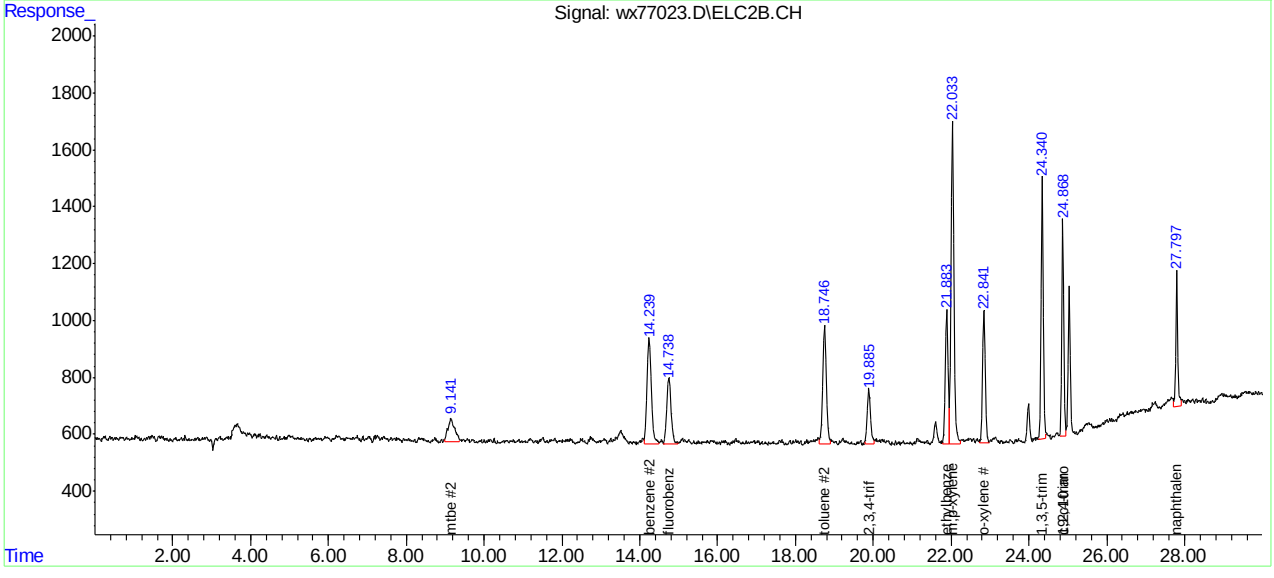
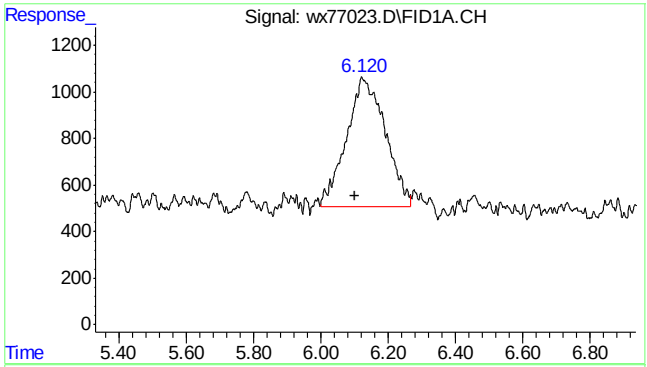
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



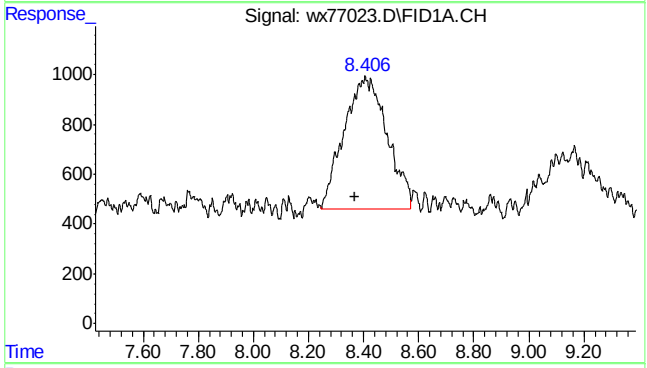


SGS ACCUTEST MC46423



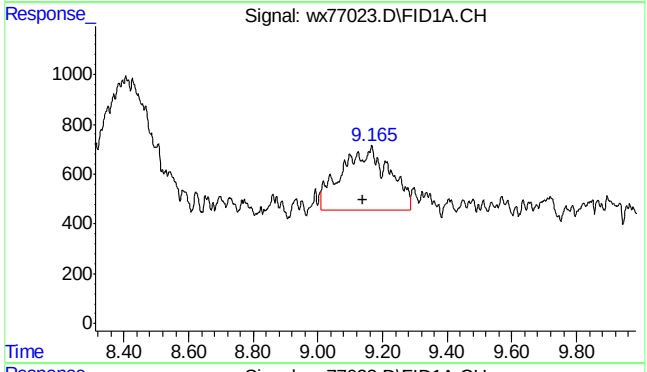
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 44675
Conc: 1.99 ppb m



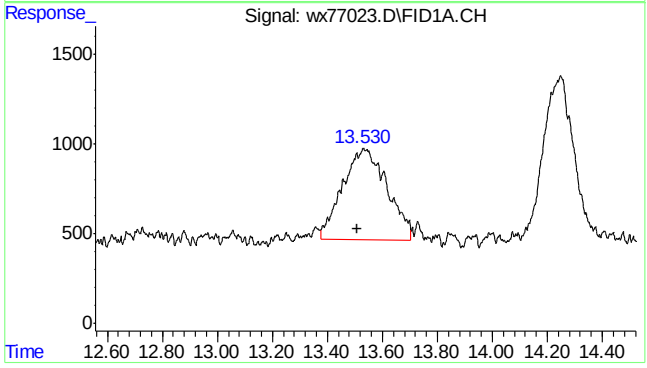
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 57323
Conc: 1.97 ppb m



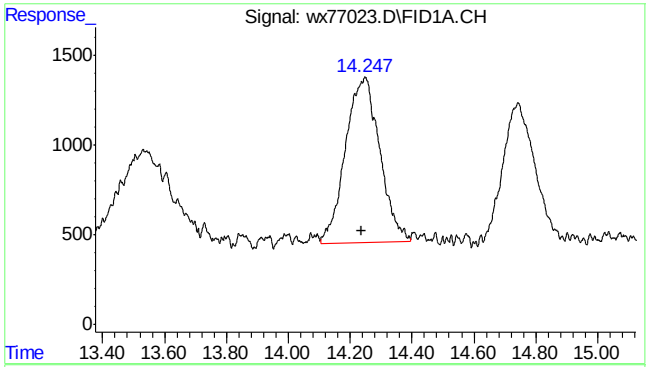
#3 mtbe

R.T.: 9.165 min
Delta R.T.: 0.027 min
Response: 26685
Conc: 2.03 ppb m



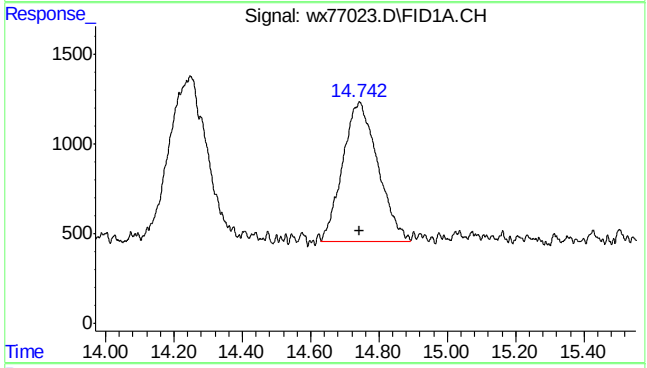
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 57225
Conc: 2.18 ppb m



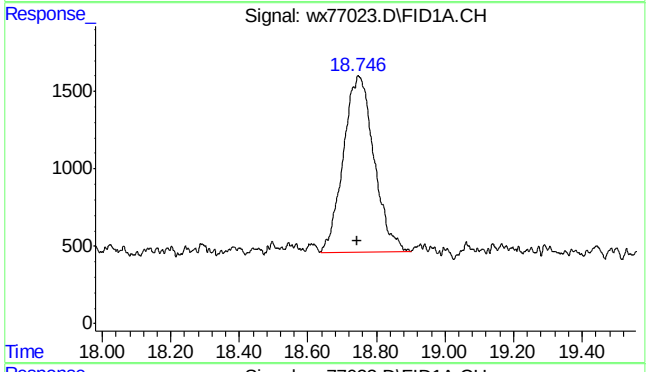
#5 benzene

R.T.: 14.247 min
Delta R.T.: 0.010 min
Response: 70953
Conc: 2.00 ppb m



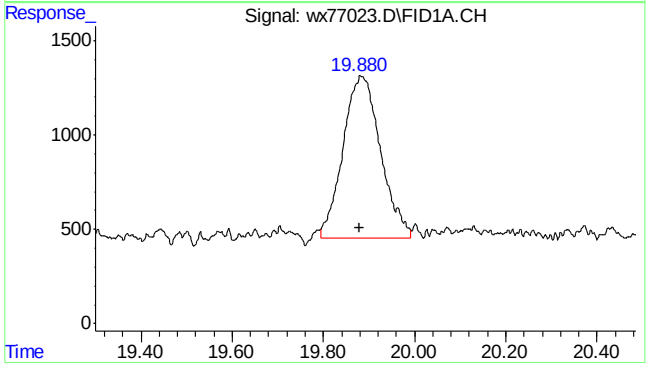
#6 fluorobenzene

R.T.: 14.742 min
Delta R.T.: 0.000 min
Response: 55966
Conc: 1.99 ppb m



#8 toluene

R.T.: 18.749 min
Delta R.T.: 0.003 min
Response: 70423
Conc: 2.02 ppb



#9 2,3,4-trifluorotoluene

R.T.: 19.880 min
Delta R.T.: 0.000 min
Response: 49232
Conc: 2.18 ppb m

7.5.8

7

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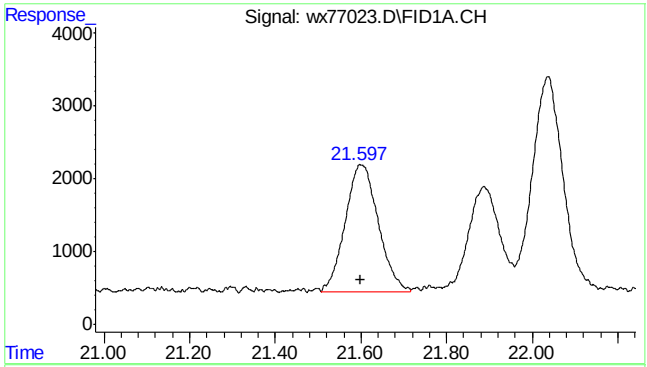
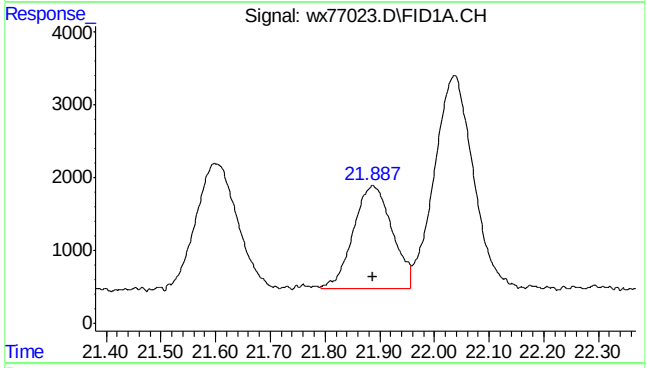


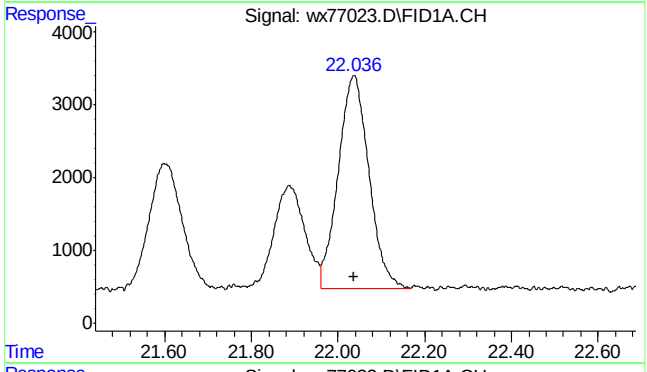
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 93236
Conc: 2.77 ppb m



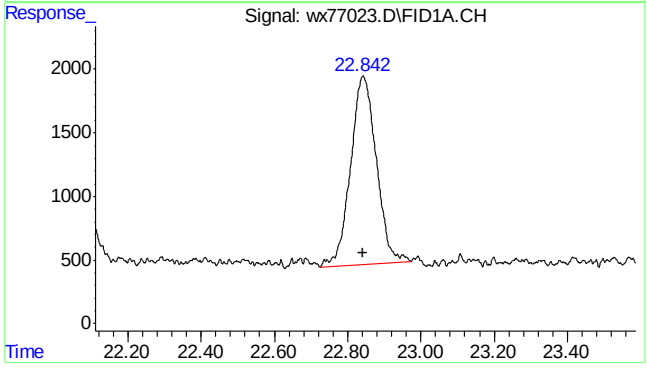
#13 ethylbenzene

R.T.: 21.887 min
Delta R.T.: 0.000 min
Response: 70038
Conc: 2.03 ppb m



#14 m,p-xylene

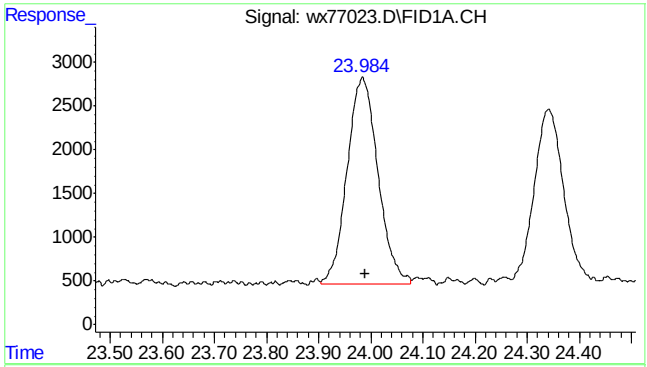
R.T.: 22.037 min
Delta R.T.: 0.002 min
Response: 143939
Conc: 4.05 ppb



#15 o-xylene

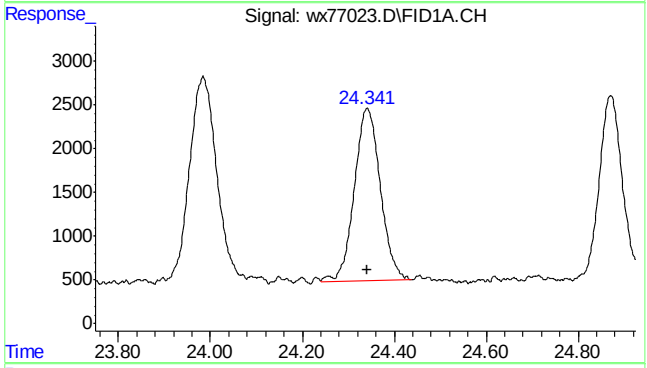
R.T.: 22.843 min
Delta R.T.: 0.000 min
Response: 72250
Conc: 2.05 ppb

SGS ACCUTEST MC46423



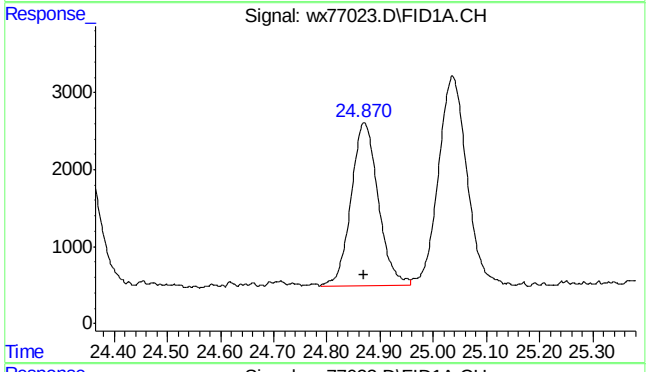
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 97419
Conc: 2.84 ppb m



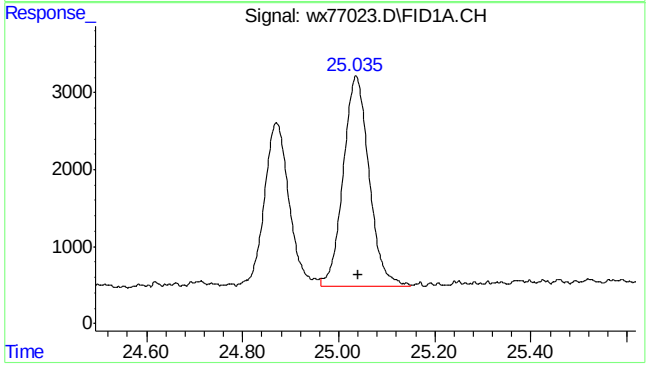
#17 1,3,5-trimethylbenzene

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 77869
Conc: 2.10 ppb



#18 1,2,4-trimethylbenzene

R.T.: 24.871 min
Delta R.T.: 0.000 min
Response: 75016
Conc: 2.12 ppb



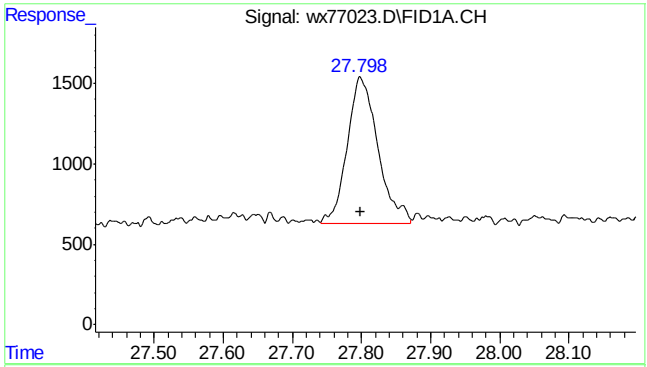
#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 101787
Conc: 2.84 ppb m

7.5.8

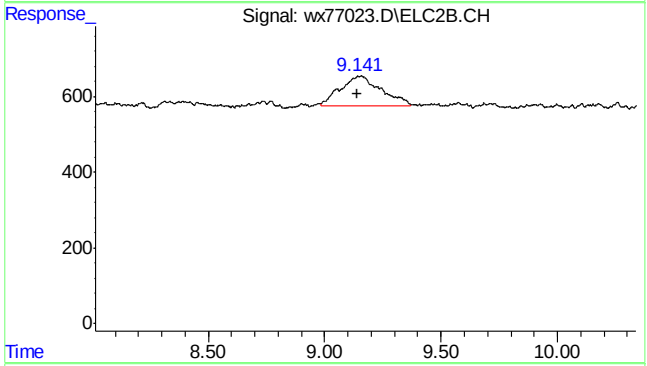
7

SGS ACCUTEST MC46423



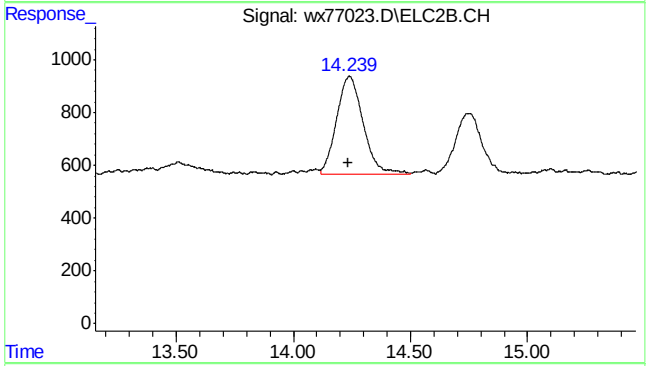
#20 naphthalene

R.T.: 27.798 min
Delta R.T.: 0.000 min
Response: 27696
Conc: 1.41 ppb m



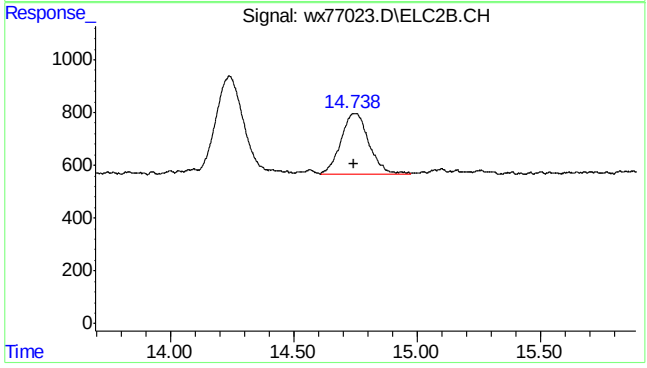
#23 mtbe #2

R.T.: 9.141 min
Delta R.T.: 0.003 min
Response: 9552
Conc: 2.14 ppb m



#24 benzene #2

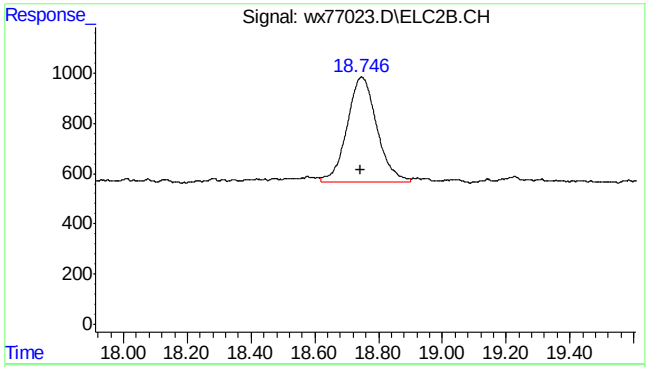
R.T.: 14.240 min
Delta R.T.: 0.003 min
Response: 29057
Conc: 2.04 ppb



#25 fluorobenzene #2

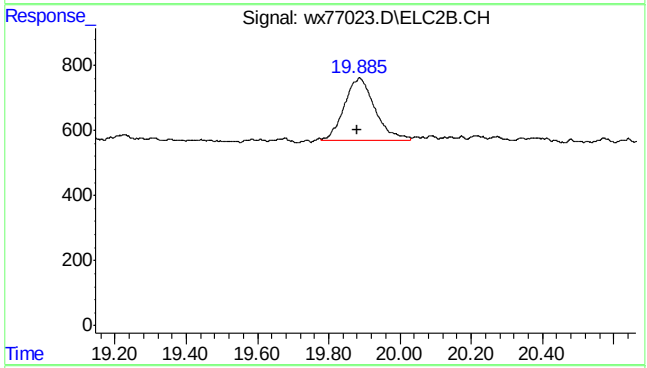
R.T.: 14.748 min
Delta R.T.: 0.006 min
Response: 18258
Conc: 2.02 ppb

SGS ACCUTEST MC46423



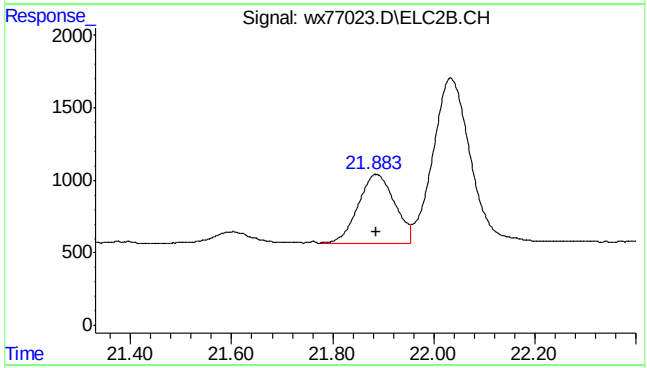
#26 toluene #2

R.T.: 18.746 min
Delta R.T.: 0.002 min
Response: 26841
Conc: 2.08 ppb m



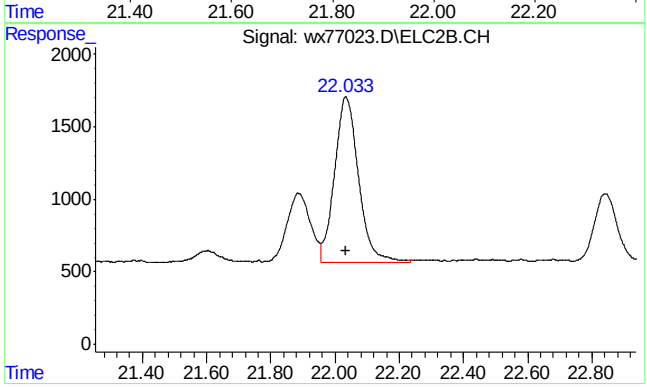
#27 2,3,4-trifluorotoluene #2

R.T.: 19.885 min
Delta R.T.: 0.006 min
Response: 11698
Conc: 2.20 ppb m



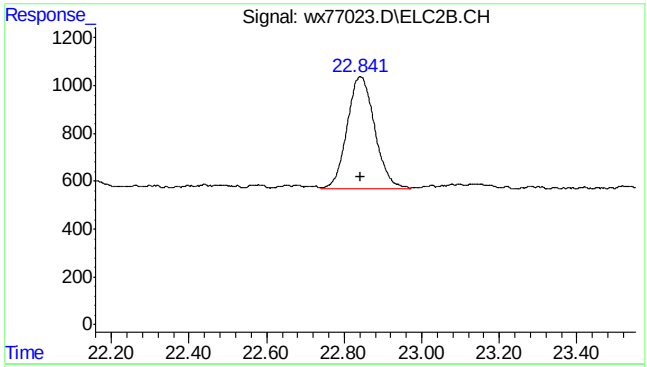
#28 ethylbenzene #2

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 23795
Conc: 2.08 ppb



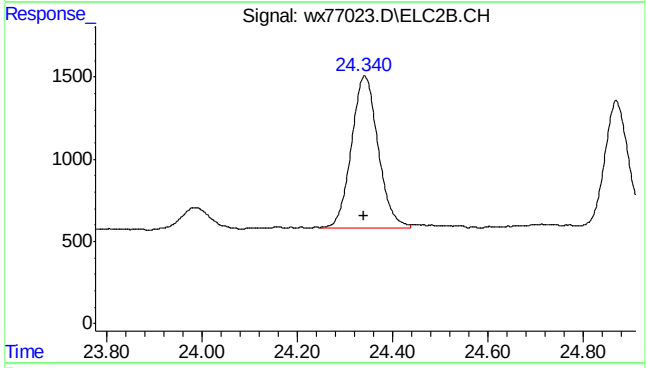
#29 m,p-xylene #2

R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 58894
Conc: 4.22 ppb



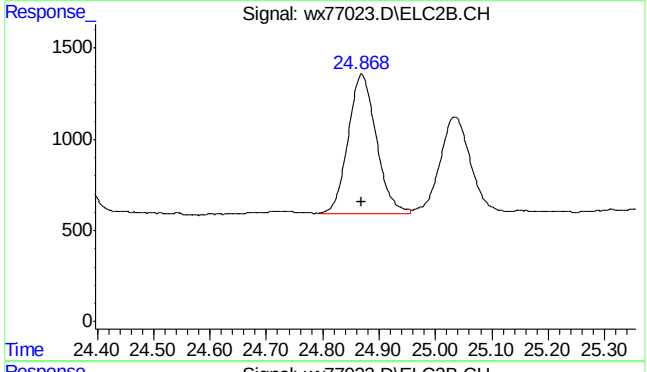
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 23056
Conc: 1.97 ppb



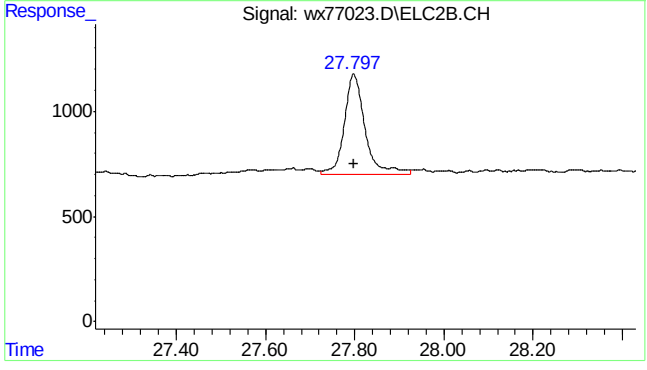
#31 1,3,5-trimethylbenzene #2

R.T.: 24.340 min
Delta R.T.: 0.000 min
Response: 35838
Conc: 2.08 ppb m



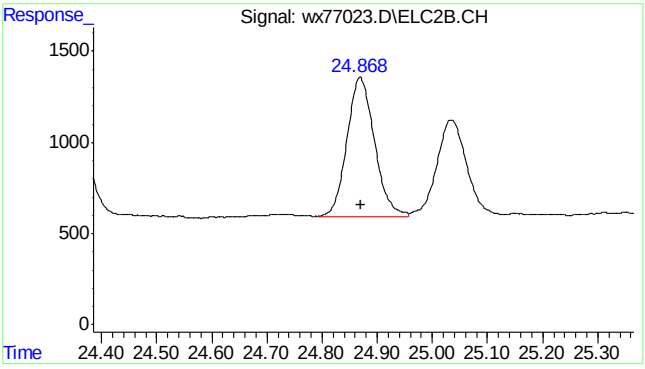
#32 1,2,4-trimethylbenzene #2

R.T.: 24.868 min
Delta R.T.: 0.000 min
Response: 26438
Conc: 2.08 ppb m



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 15632
Conc: 1.57 ppb m



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

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	26461
Conc:	2.08 ppb m

7.5.8

7

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

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Integration File signal 1: EVENTS.E
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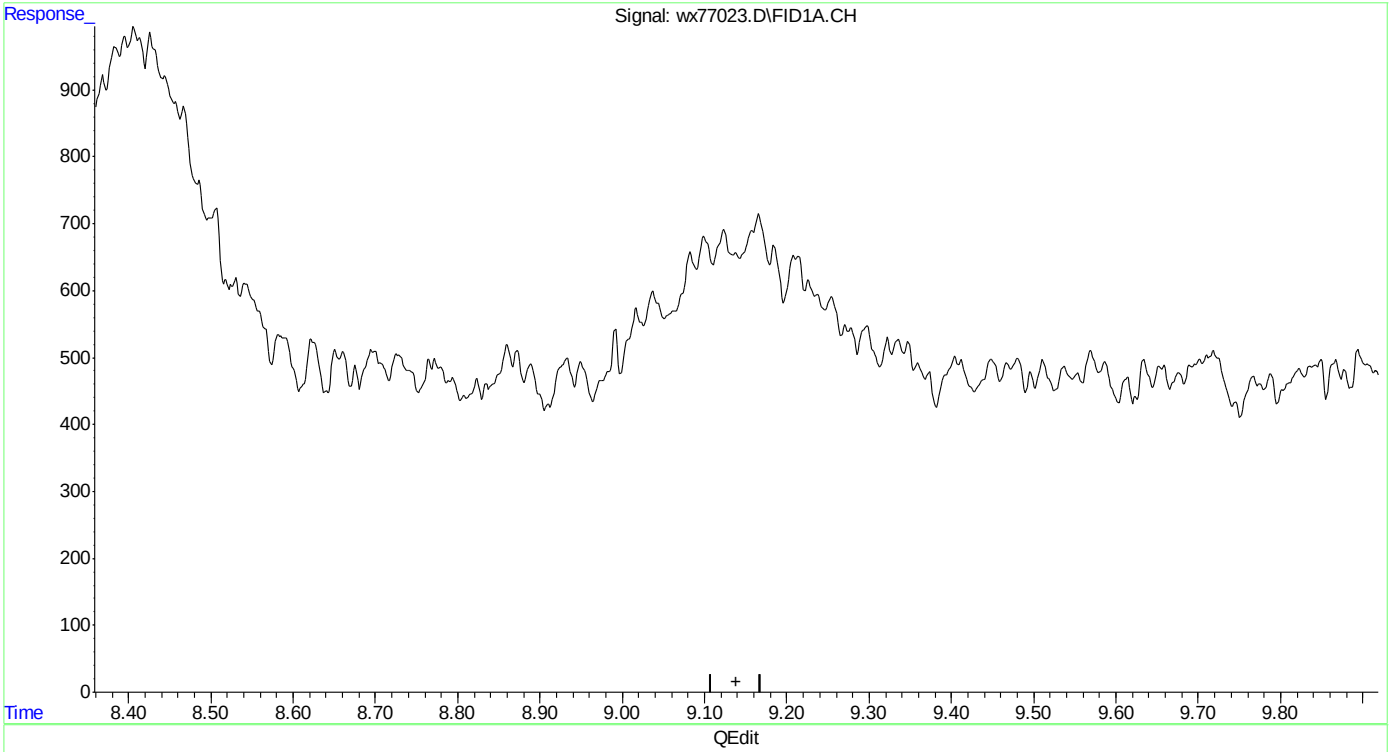
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.139min 0.000 ppb
response 0

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:05:18 2016

SGS ACCUTEST MC46423

Quantitation Report (Qedit)

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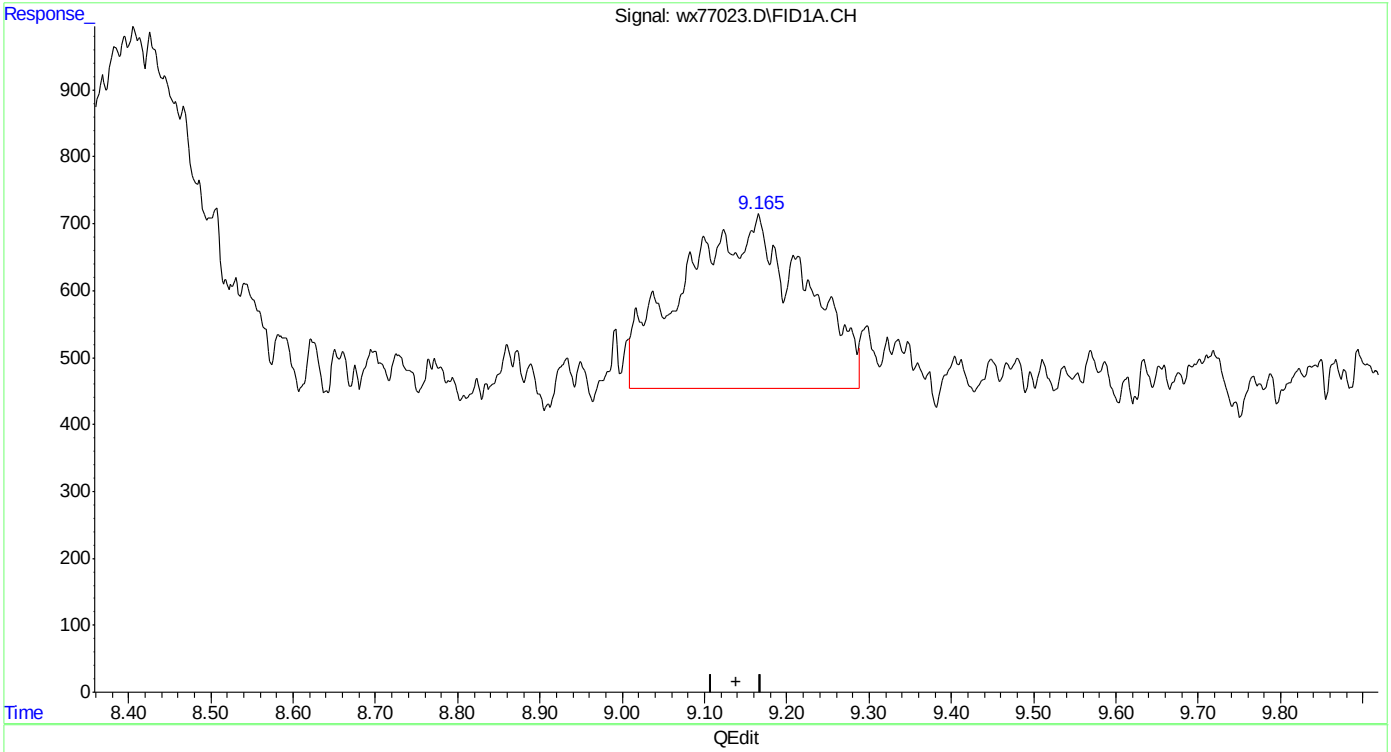
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.165min 2.027 ppb m
response 26685

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:05:29 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
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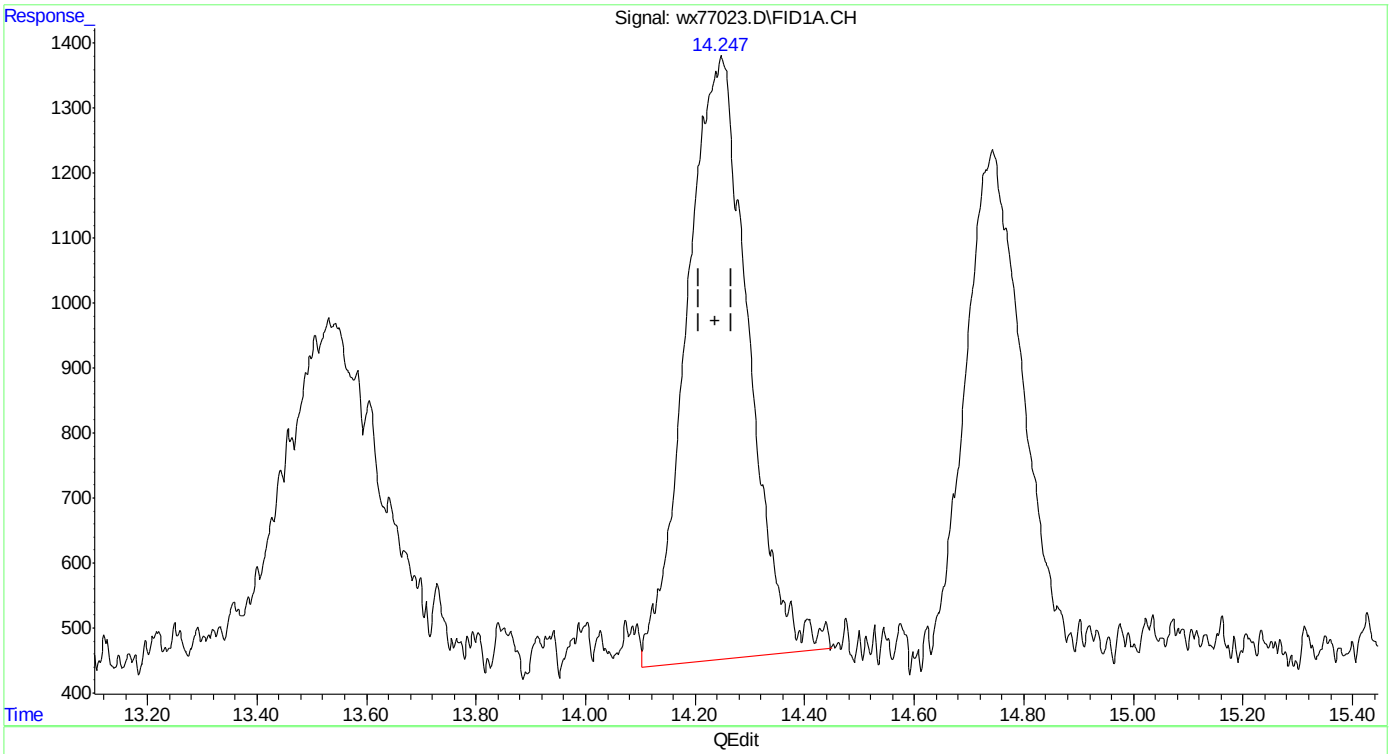
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.249min 2.054 ppb
response 72982

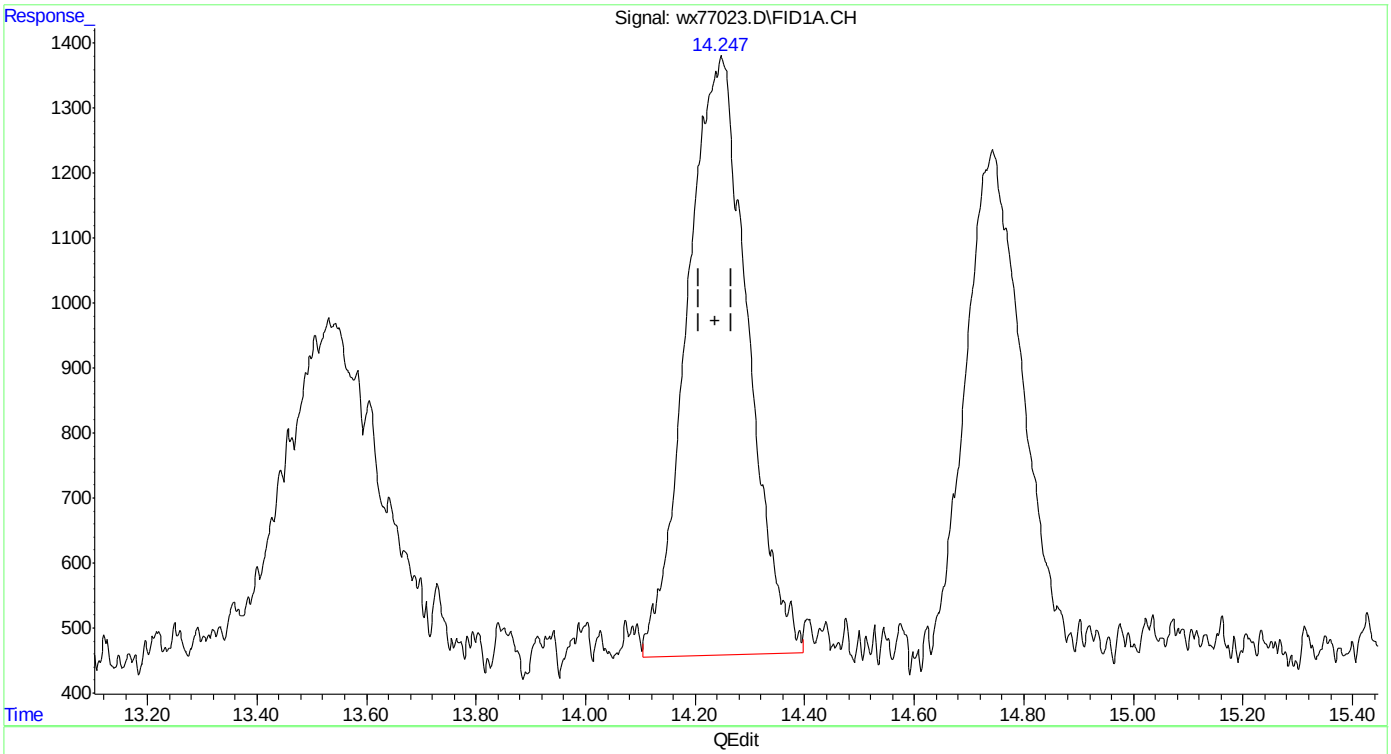
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.247min 1.997 ppb m
response 70953

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:18 2016 Page: 1

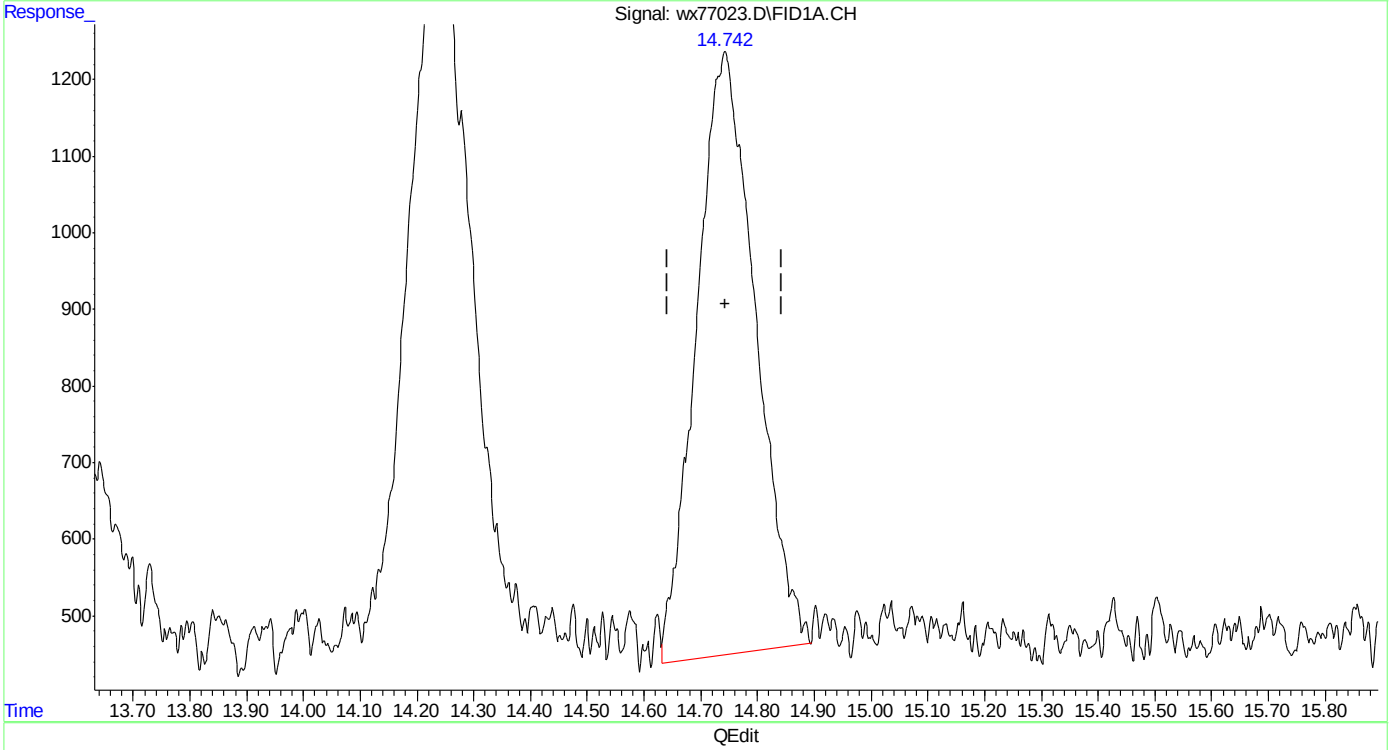
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.743min 2.015 ppb
response 56744

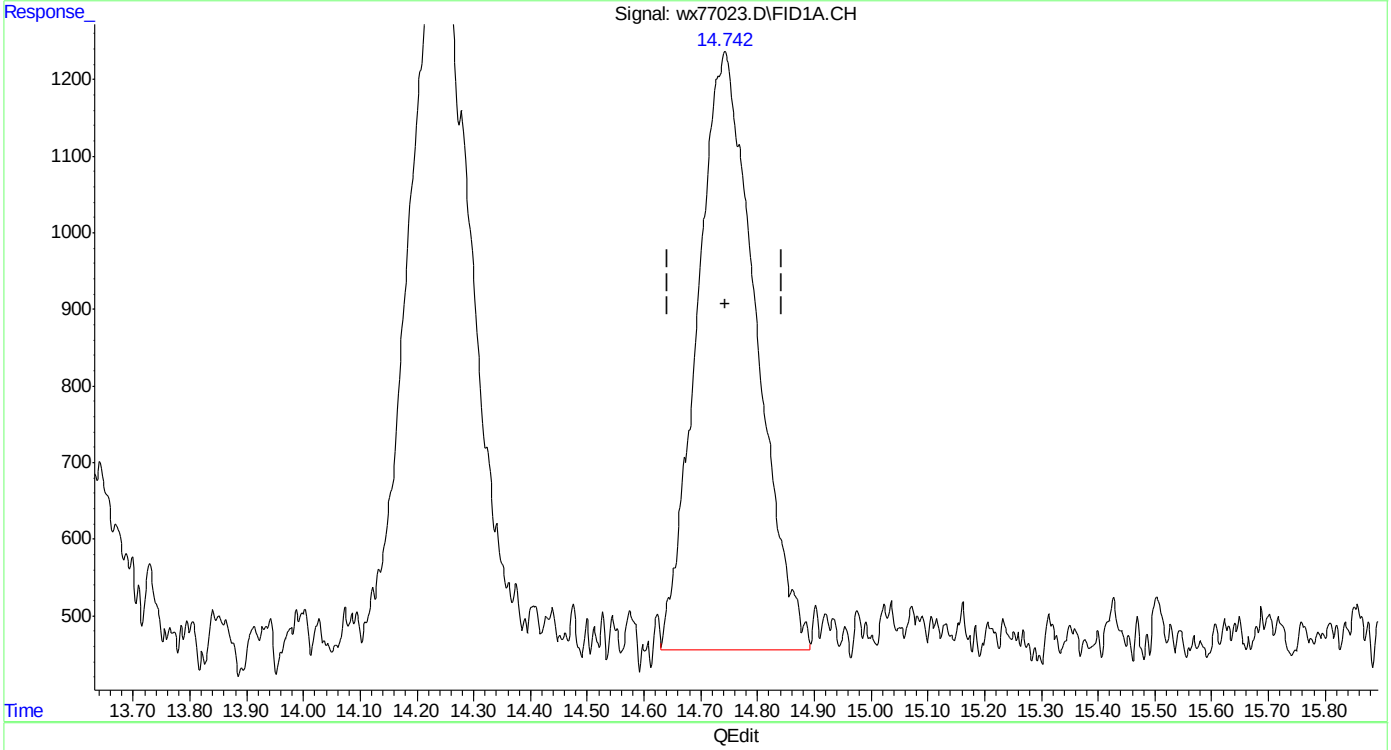
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:22 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.742min 1.988 ppb m
response 55966

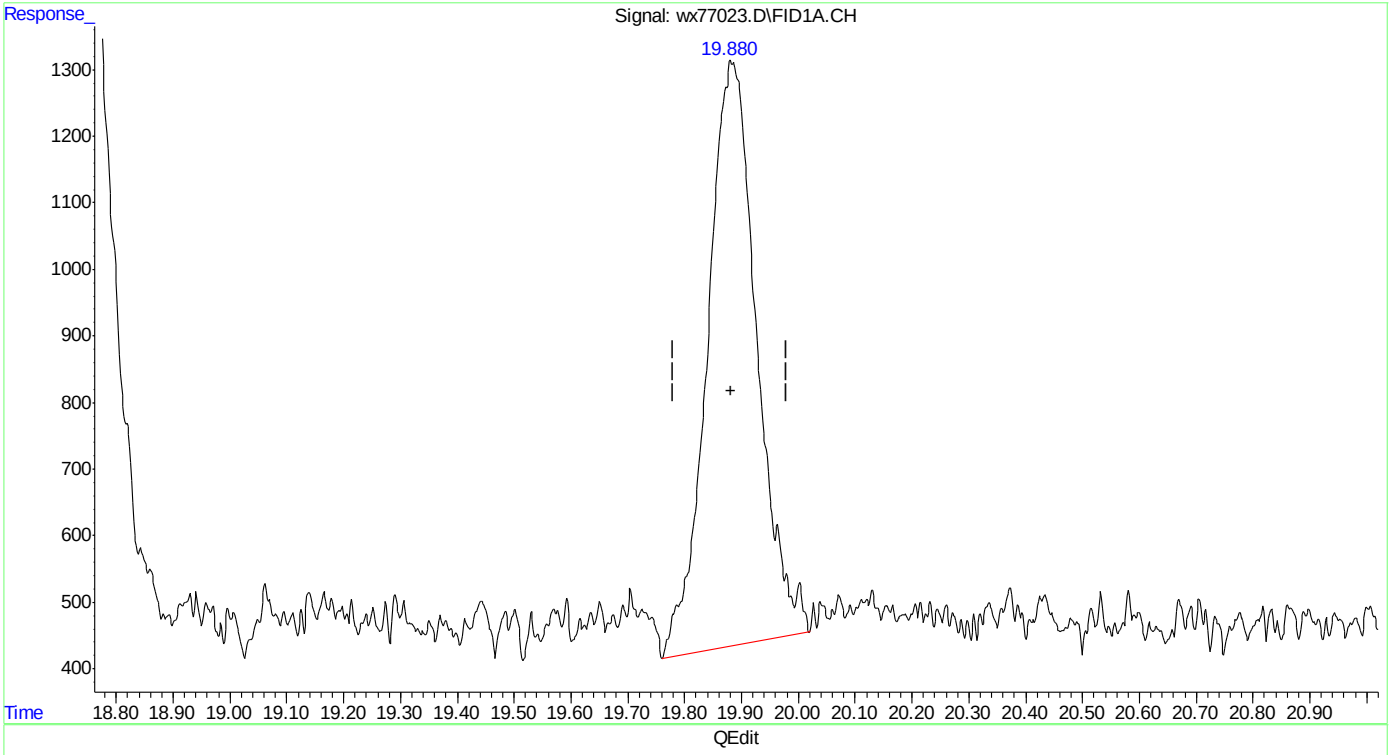
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:27 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.883min 2.343 ppb
response 52958

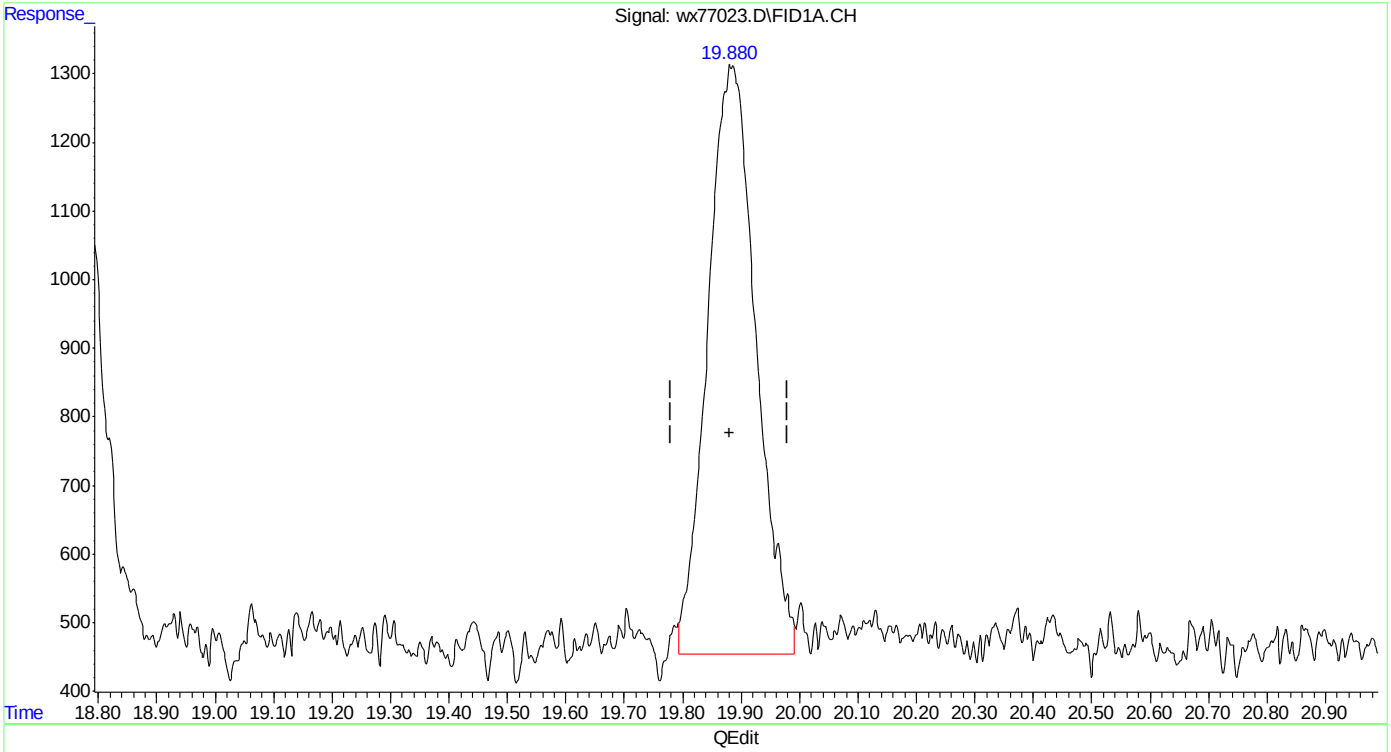
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:06:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.880min 2.178 ppb m
response 49232

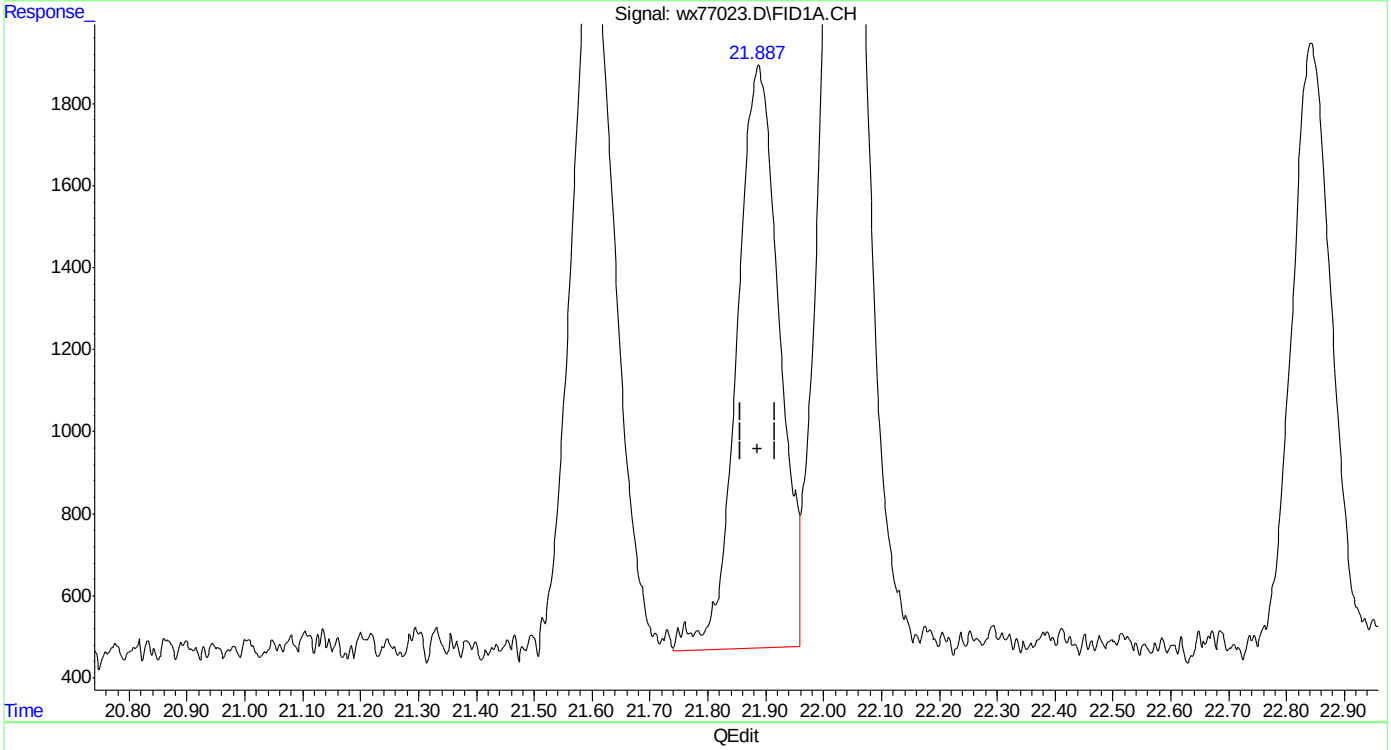
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.888min 2.096 ppb
response 72207

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:10 2016

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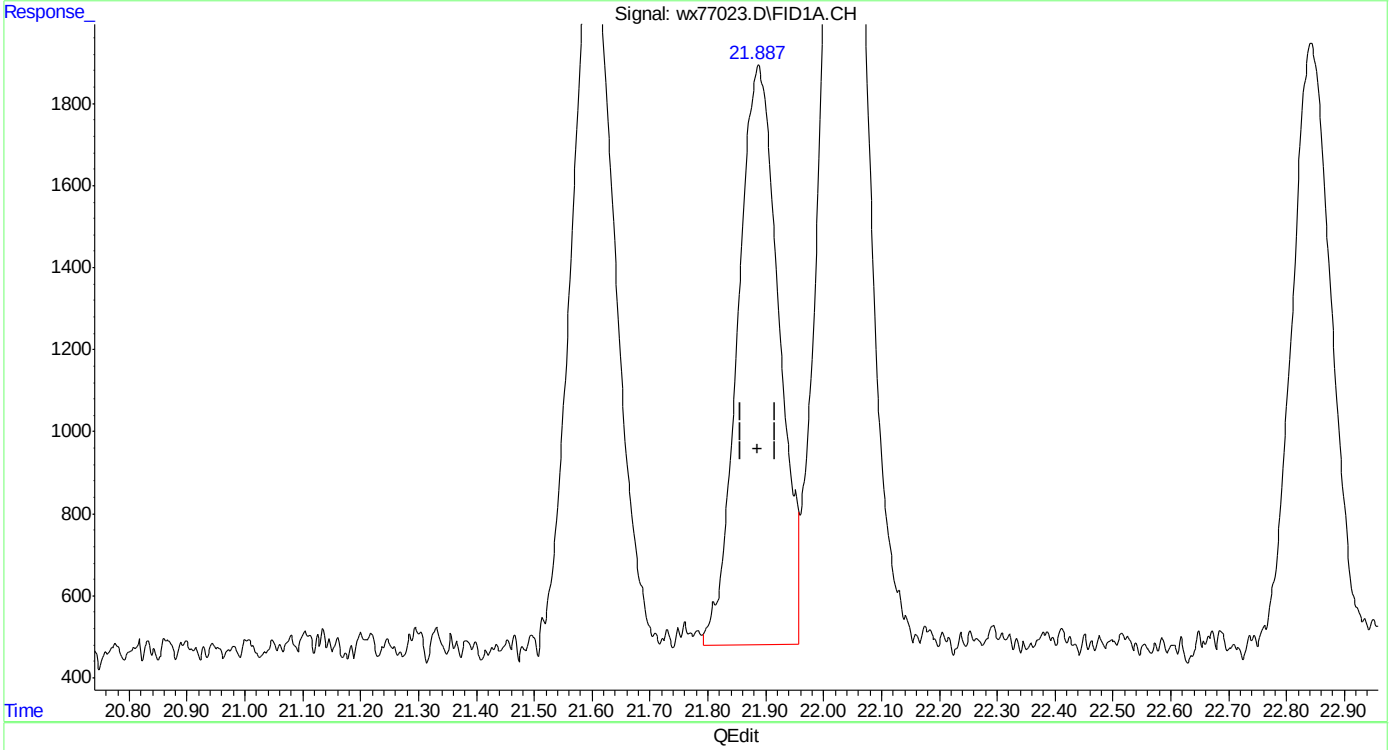
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.887min 2.033 ppb m
response 70038

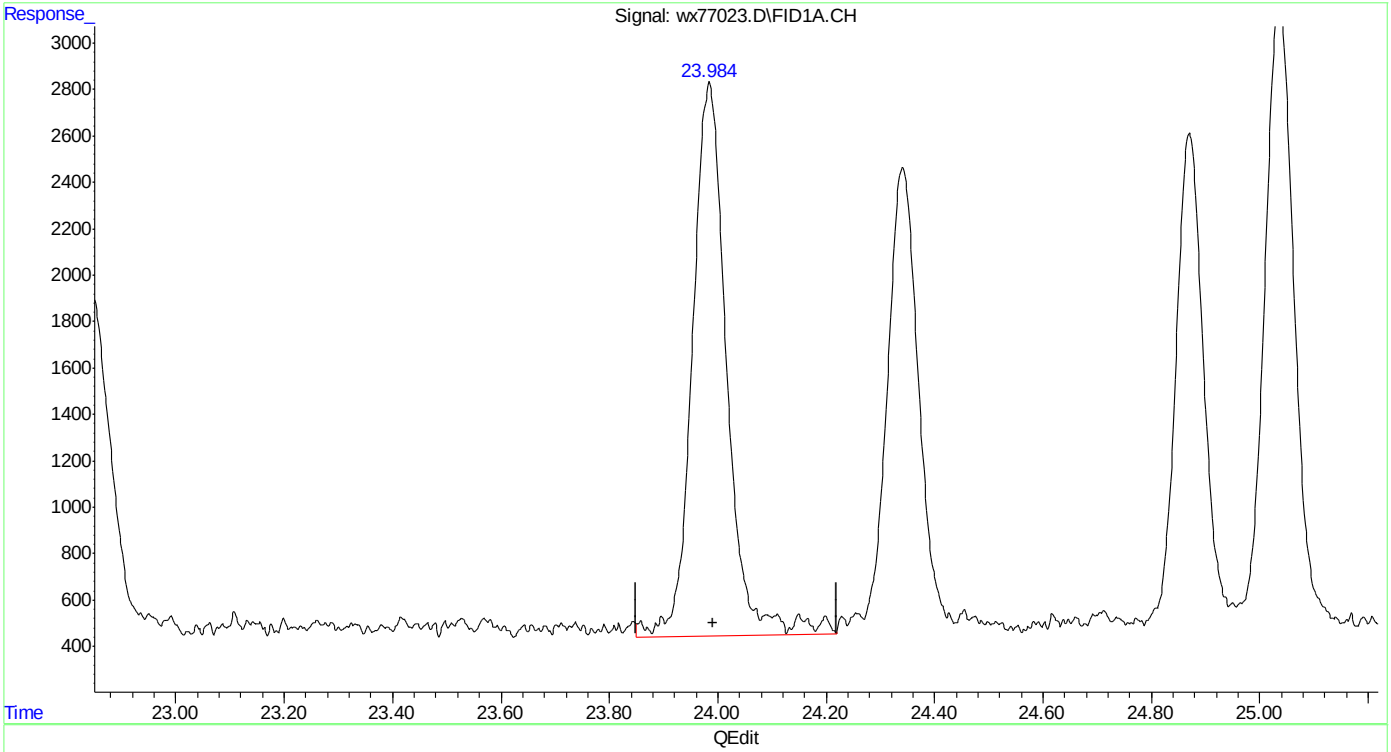
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:15 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 3.076 ppb
response 105589

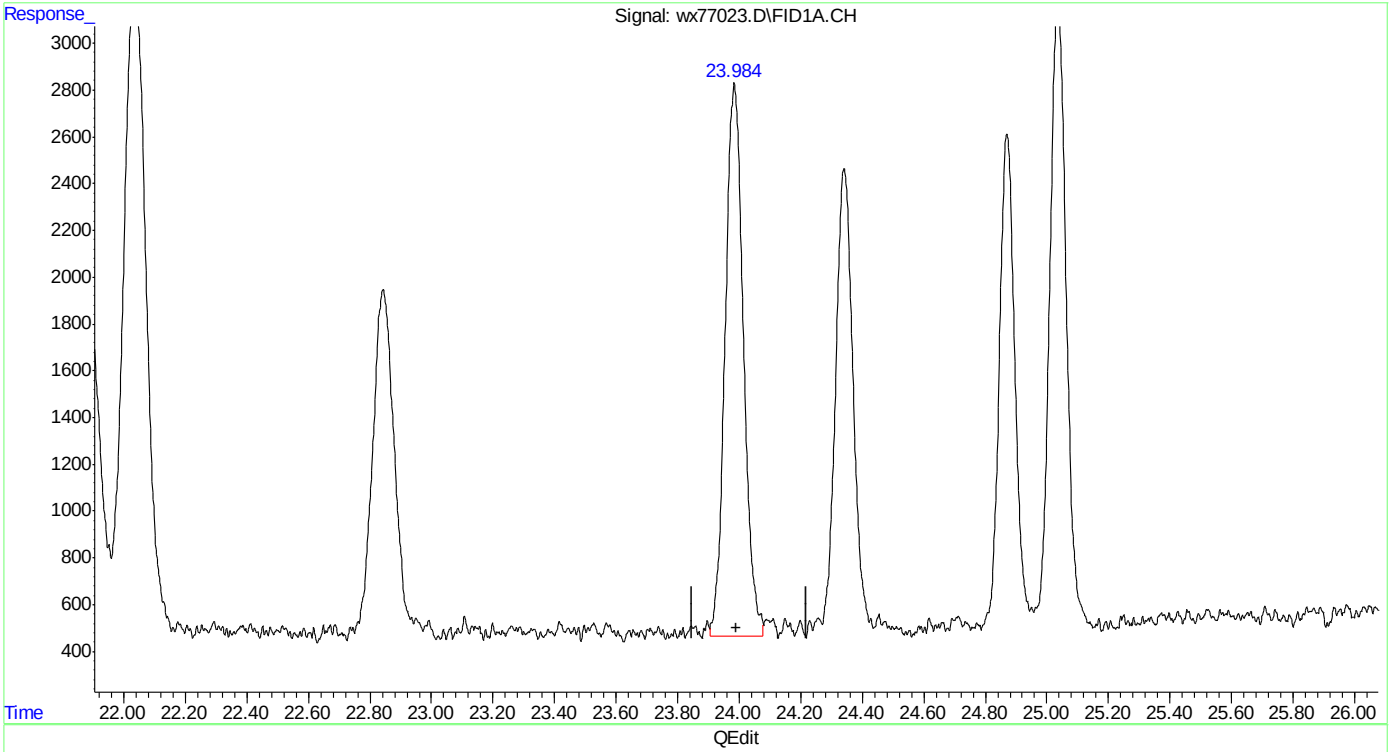
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 2.838 ppb m
response 97419

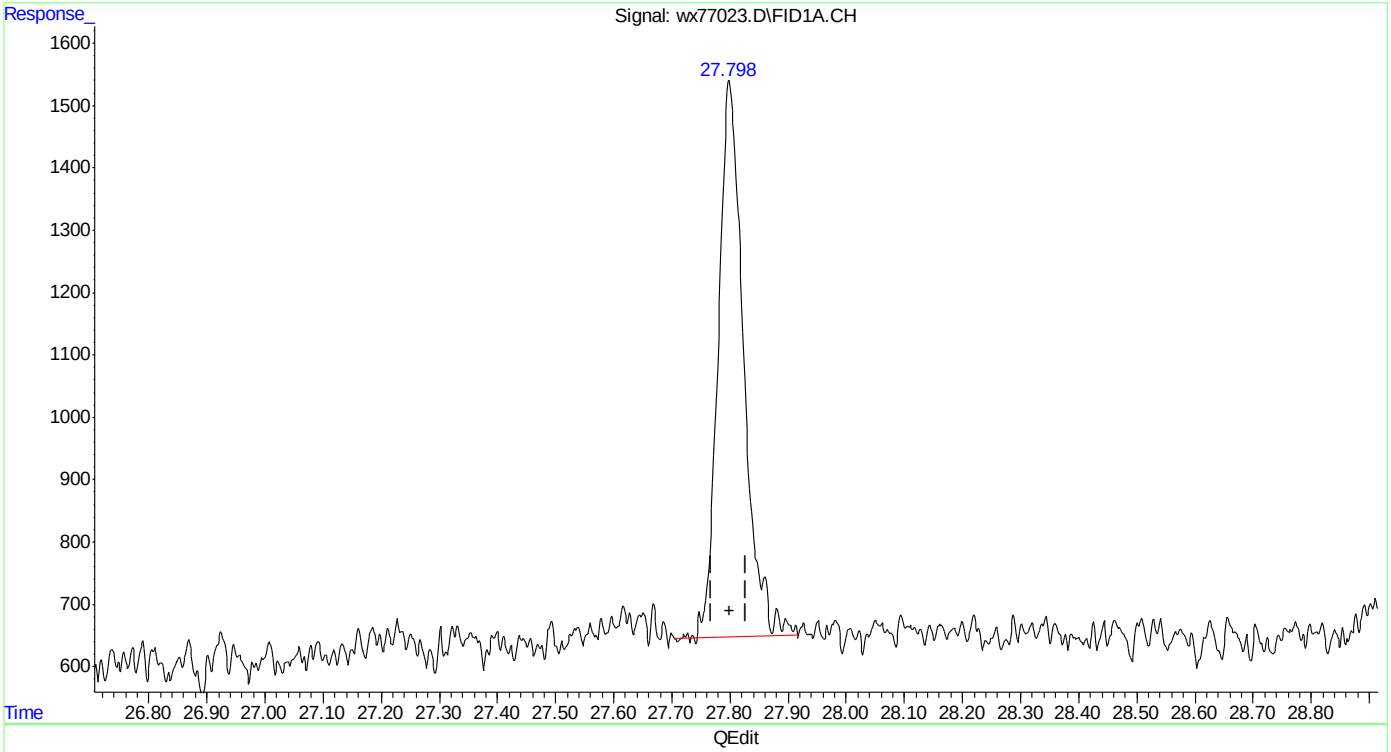
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:31 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene
27.800min 1.378 ppb
response 26981

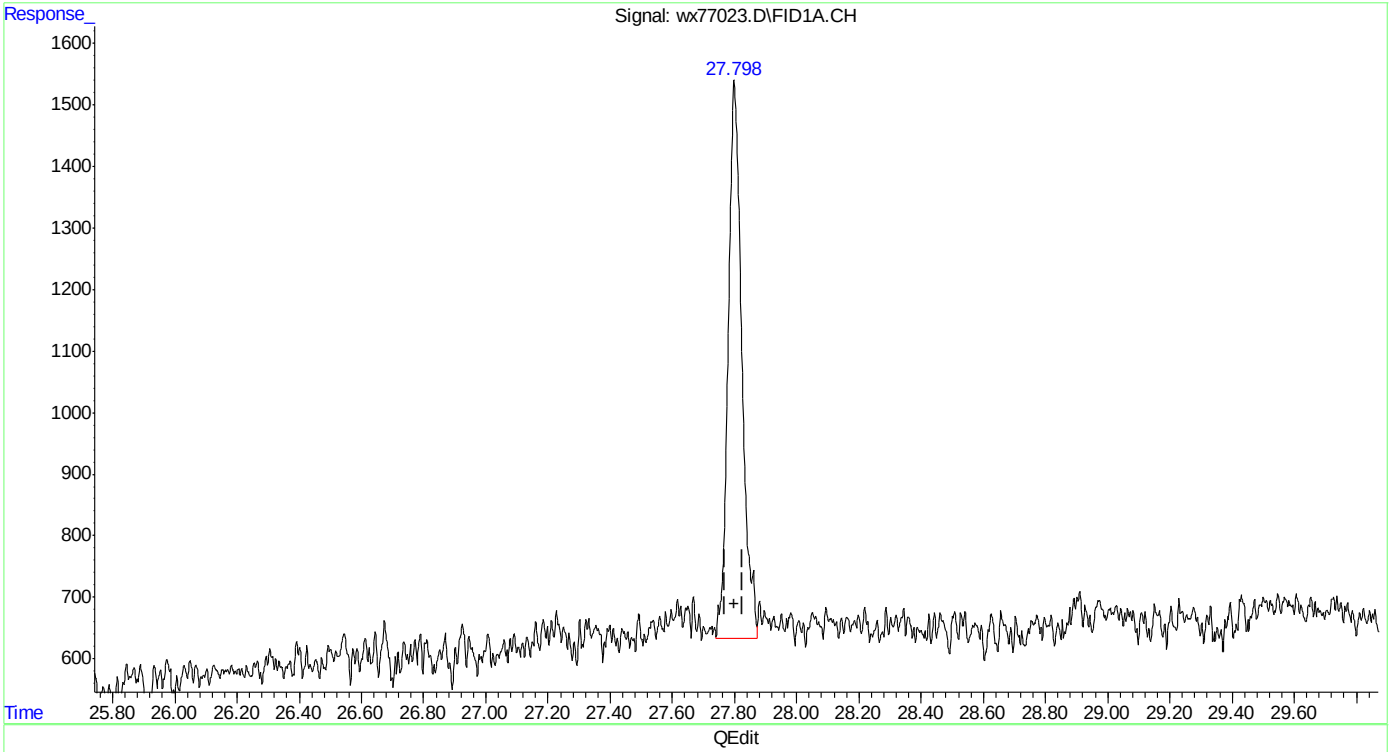
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:07:51 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  11:52 am
Operator  : tonyf
Sample    : ic3782-2,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 8   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.798min 1.414 ppb m

response 27696

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:07:58 2016 Page: 1

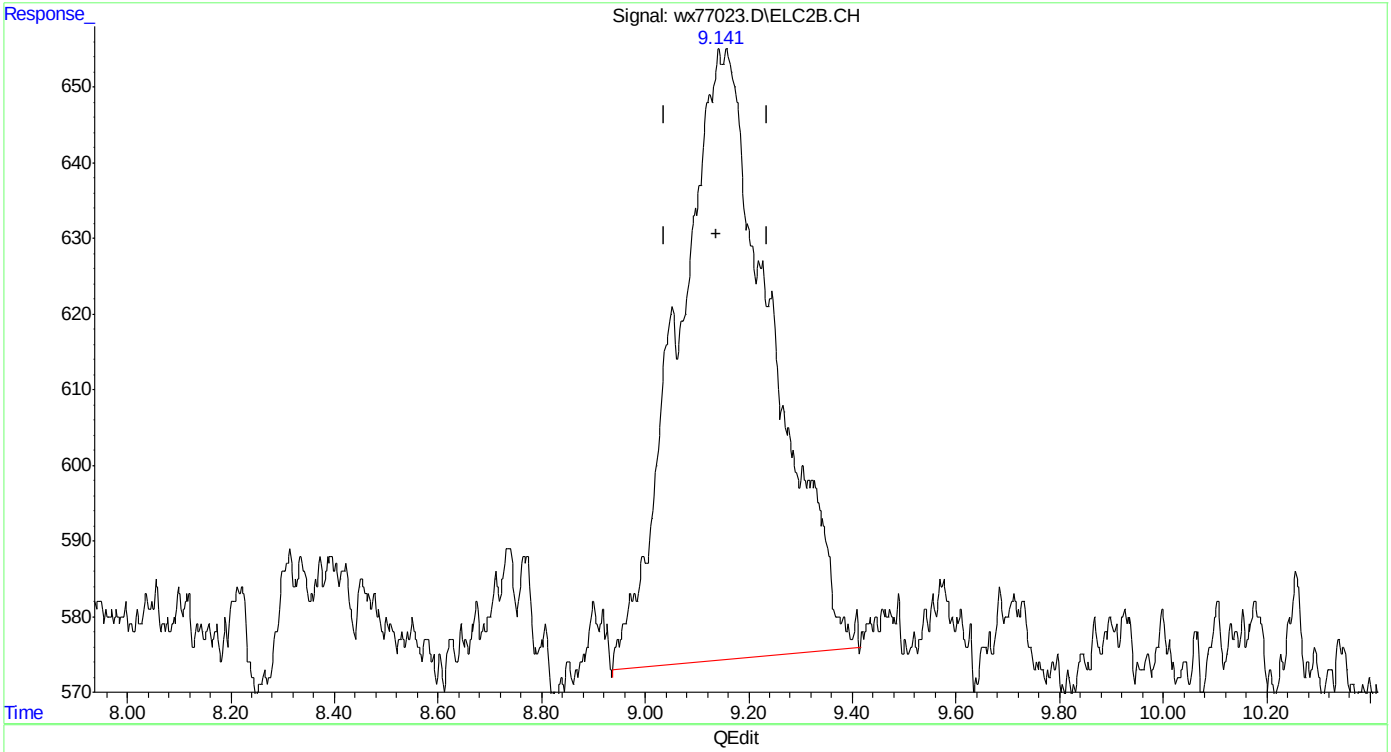
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.158min 2.295 ppb
response 10240

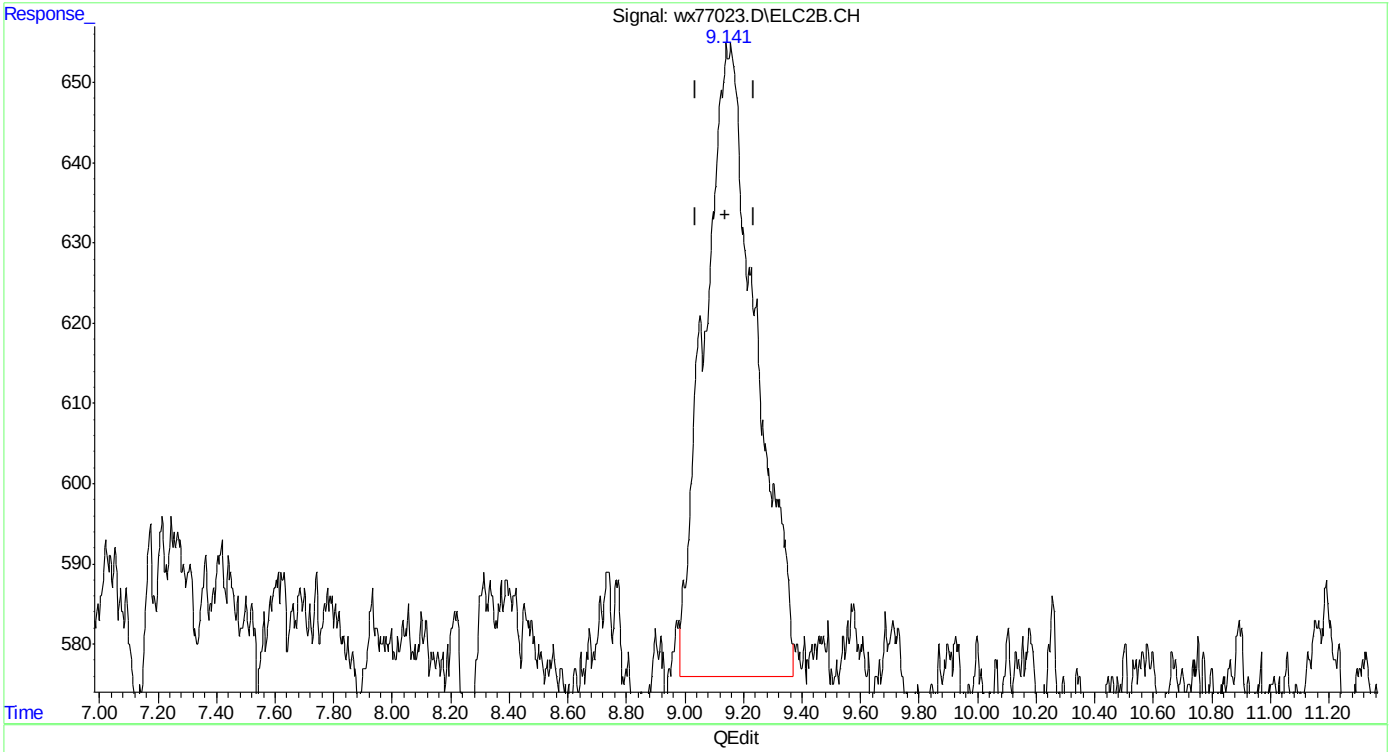
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:04 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.141min 2.141 ppb m
response 9552

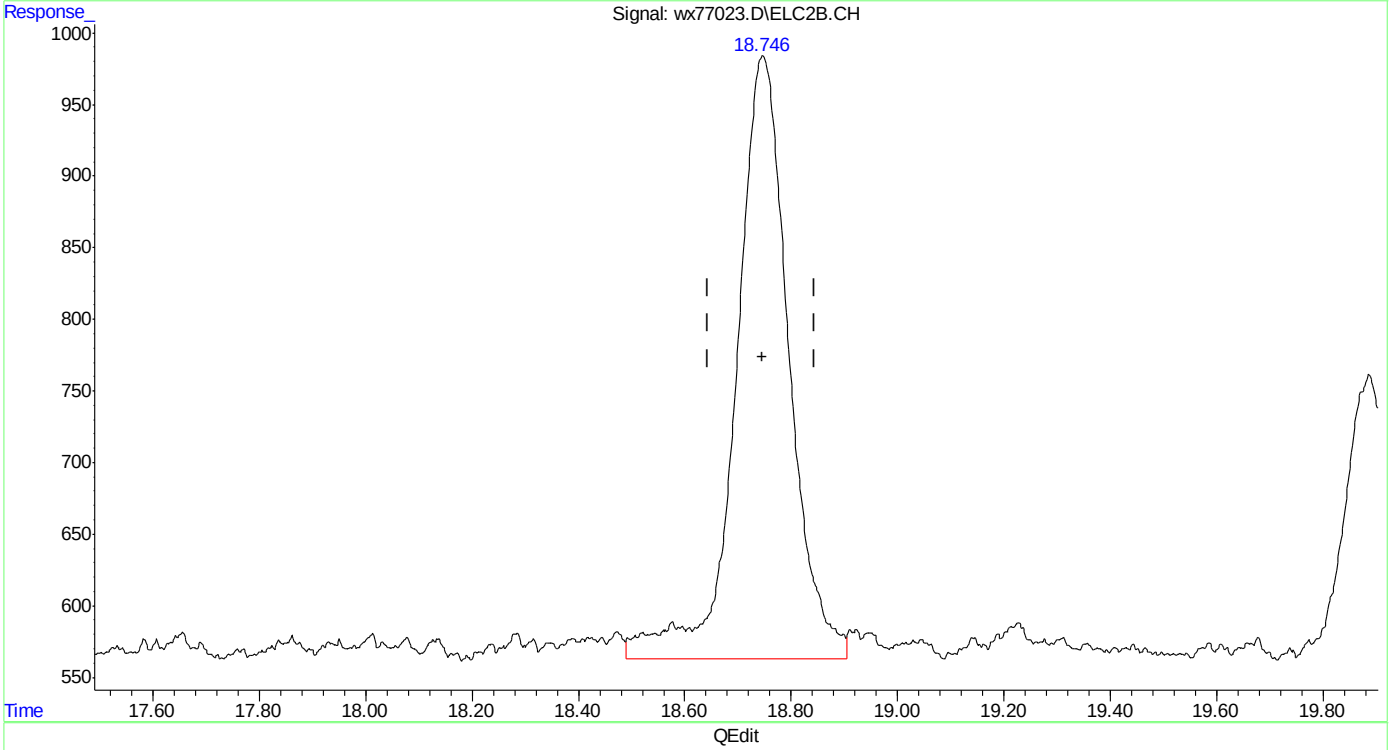
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.747min 2.252 ppb
response 29038

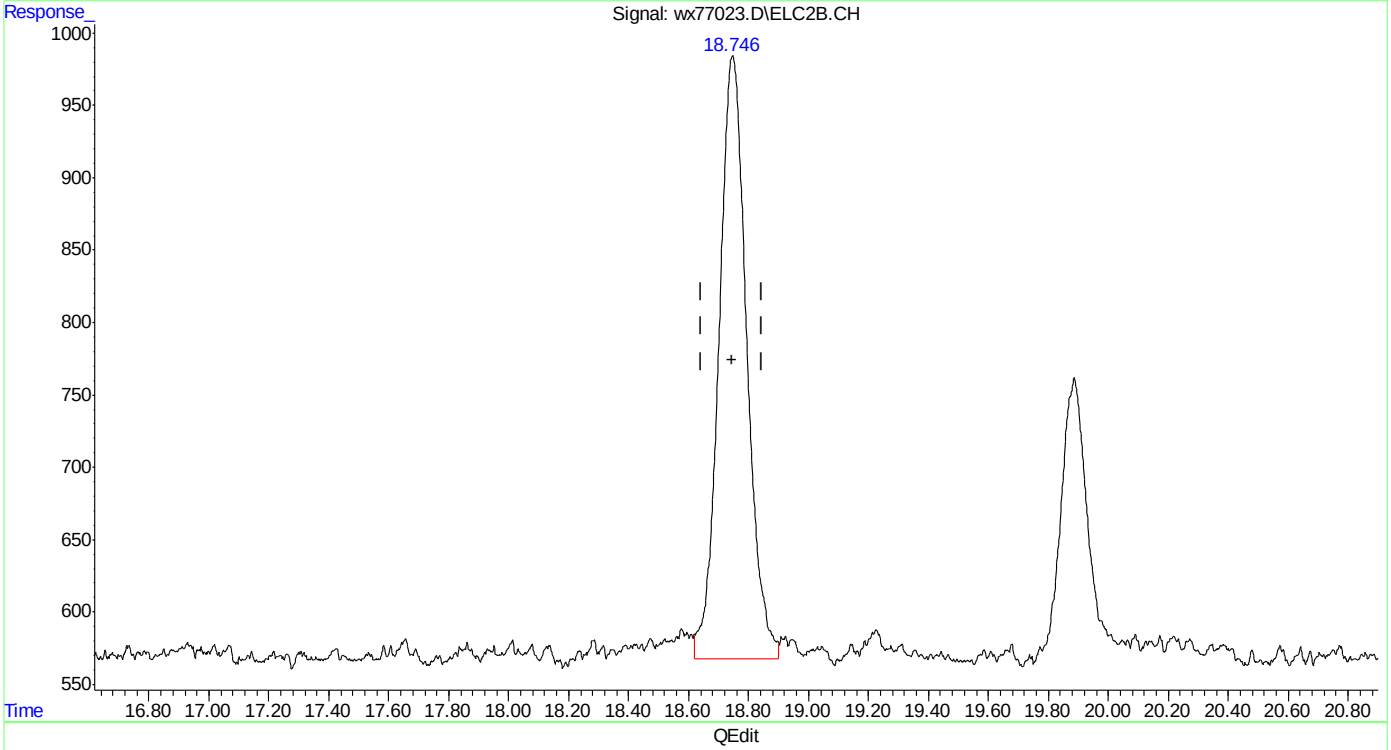
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.746min 2.082 ppb m
response 26841

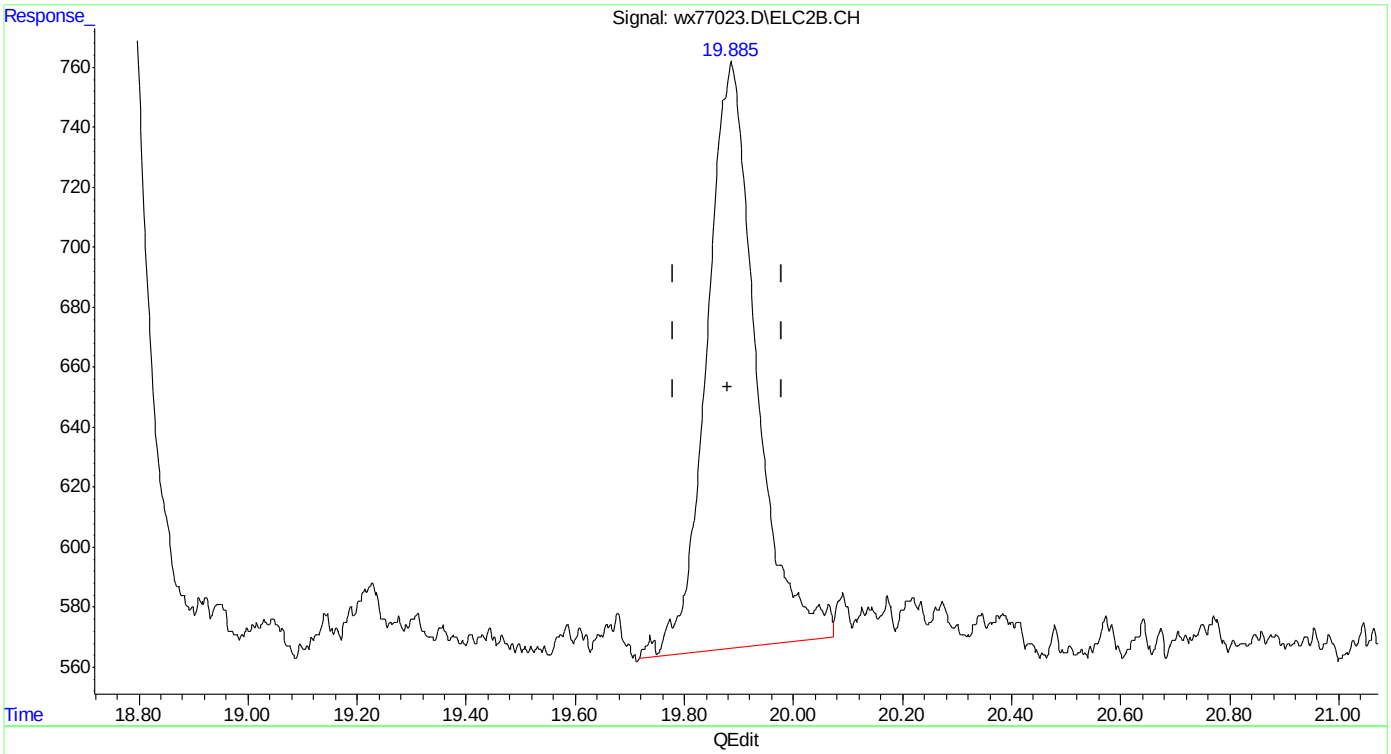
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:49 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.887min 2.318 ppb
response 12340

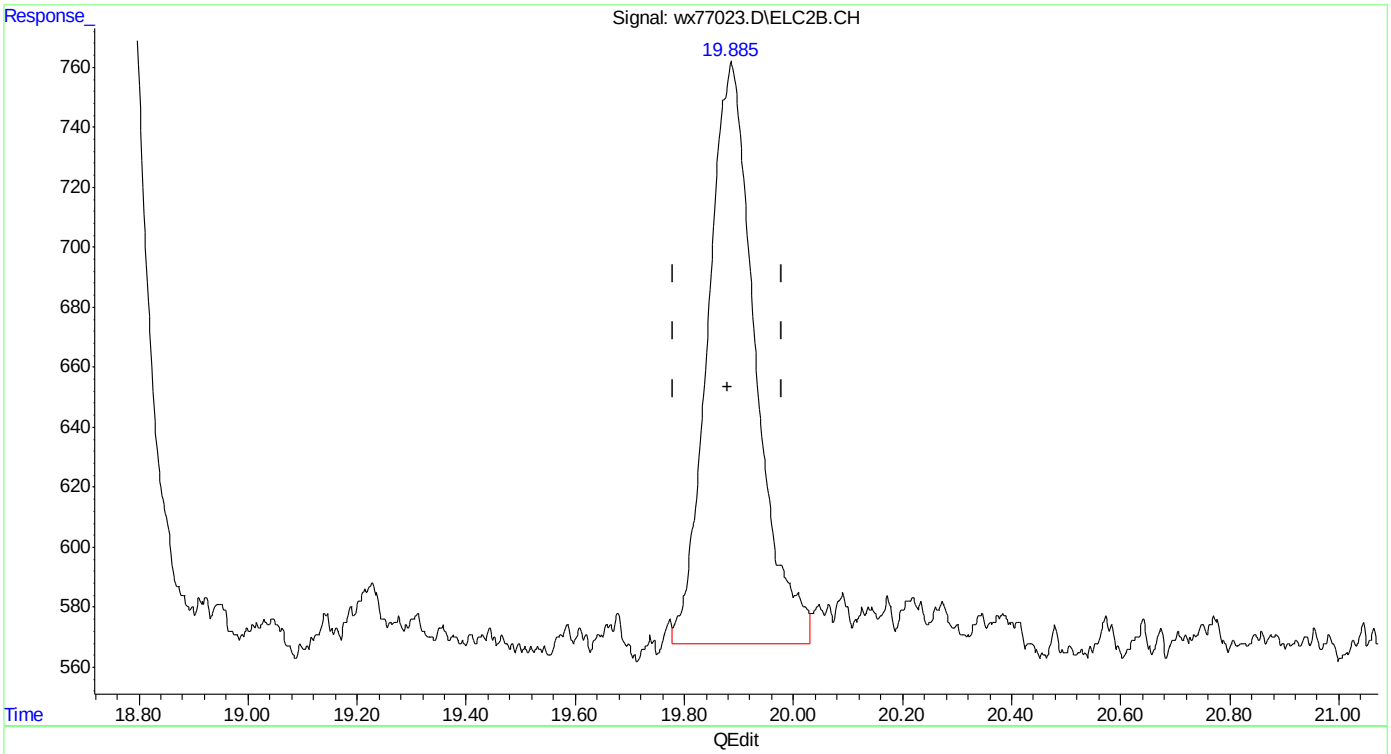
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:08:53 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.885min 2.197 ppb m
response 11698

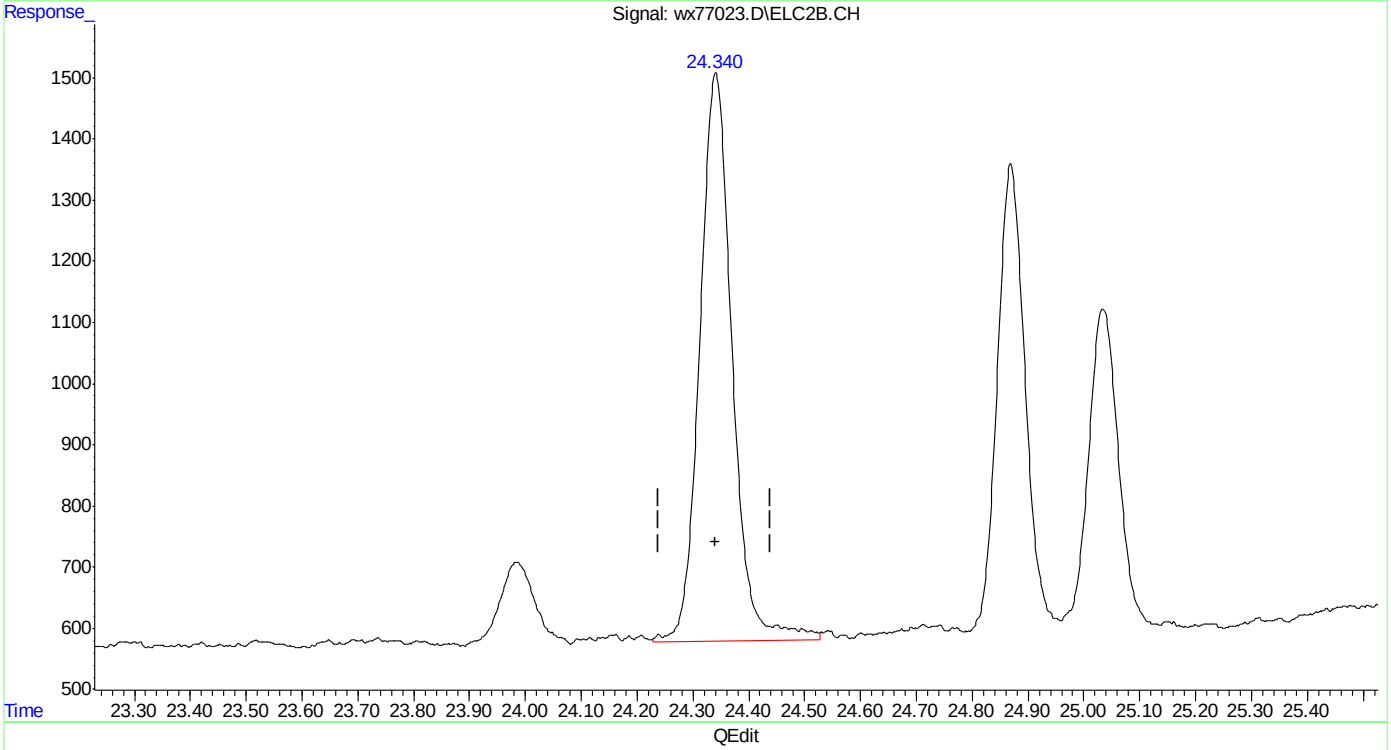
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:02 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
24.341min 2.177 ppb
response 37421

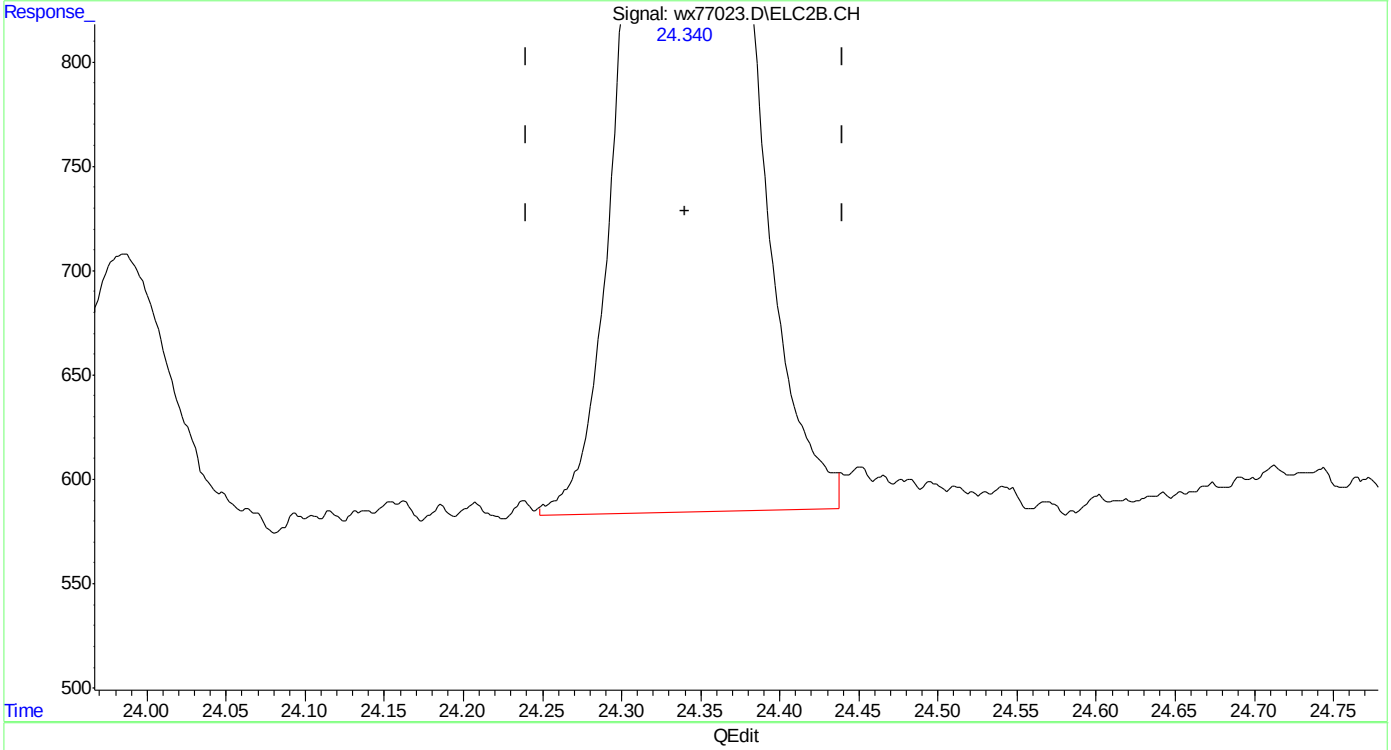
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:10 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
24.340min 2.085 ppb m
response 35838

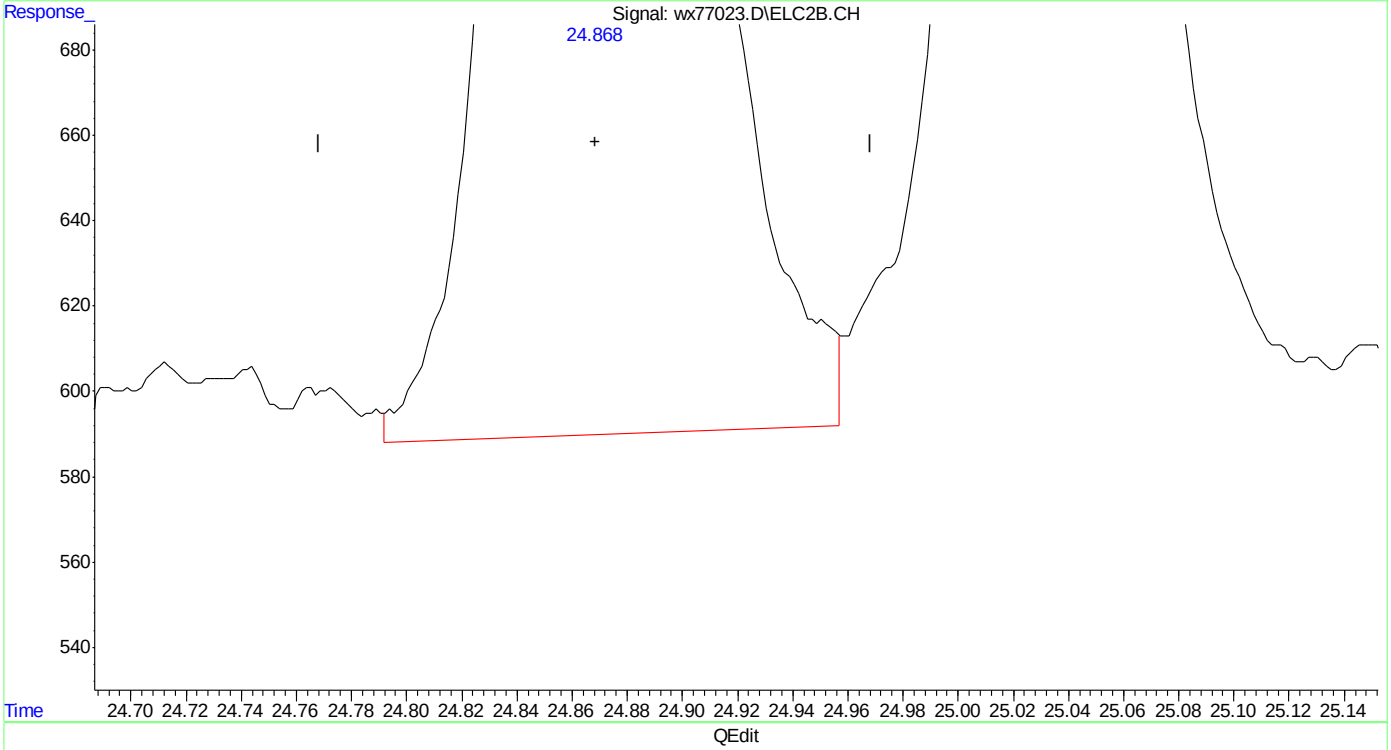
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:16 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.869min 2.112 ppb
response 26843

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:21 2016

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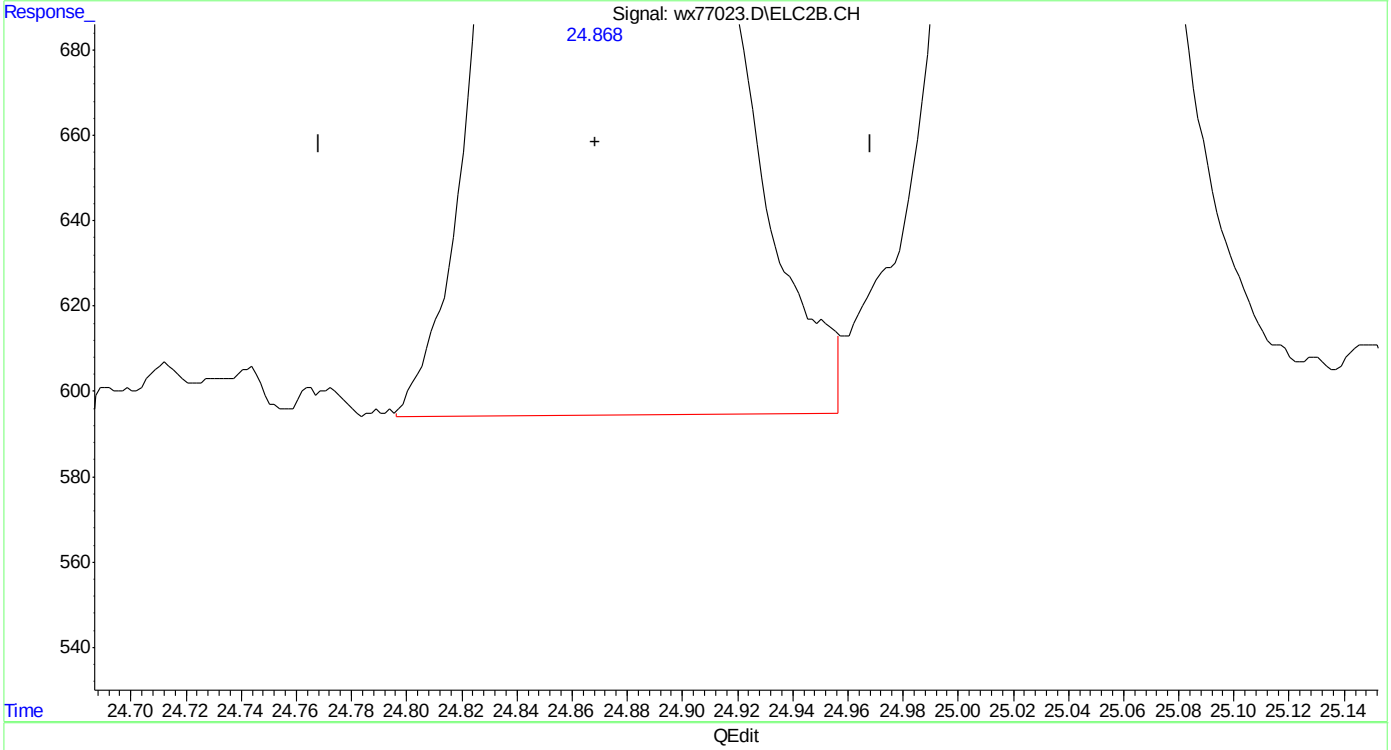
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2
24.868min 2.080 ppb m
response 26438

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:25 2016

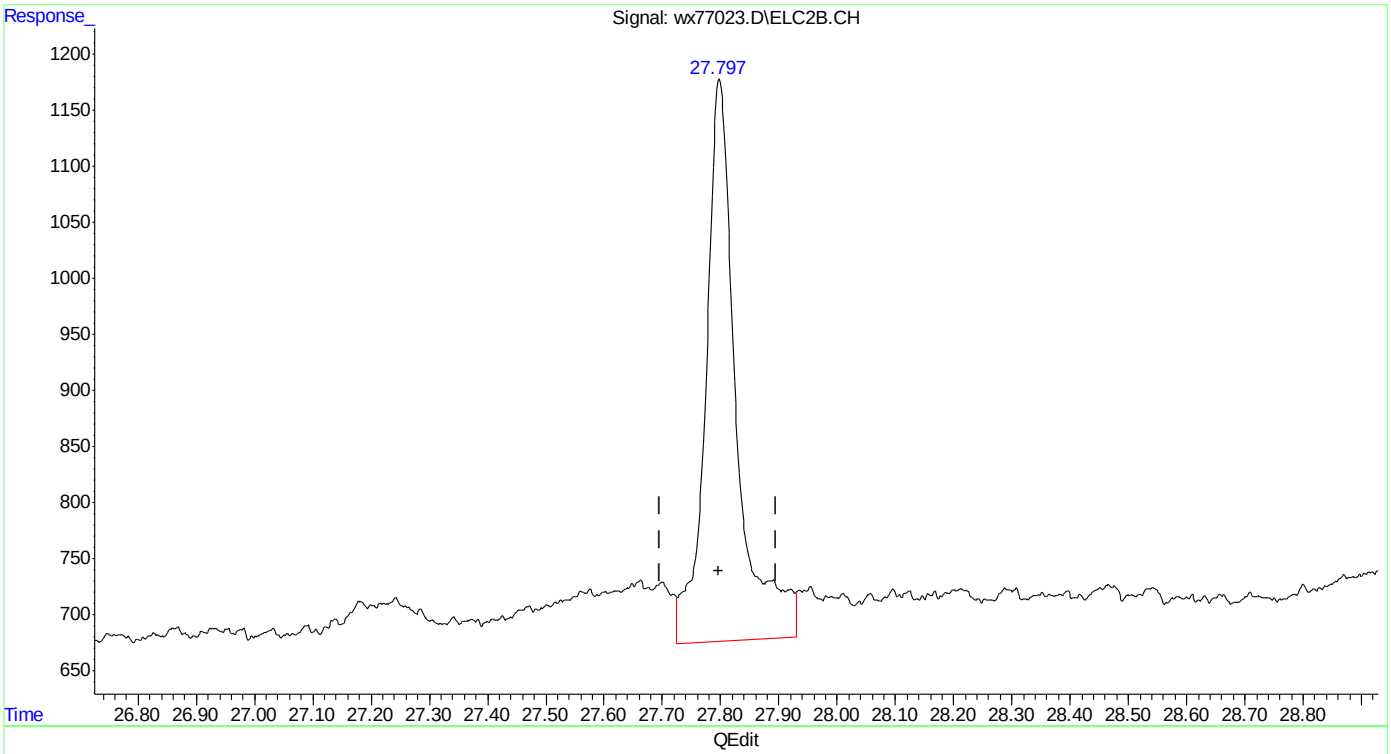
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.798min 1.843 ppb
response 18368

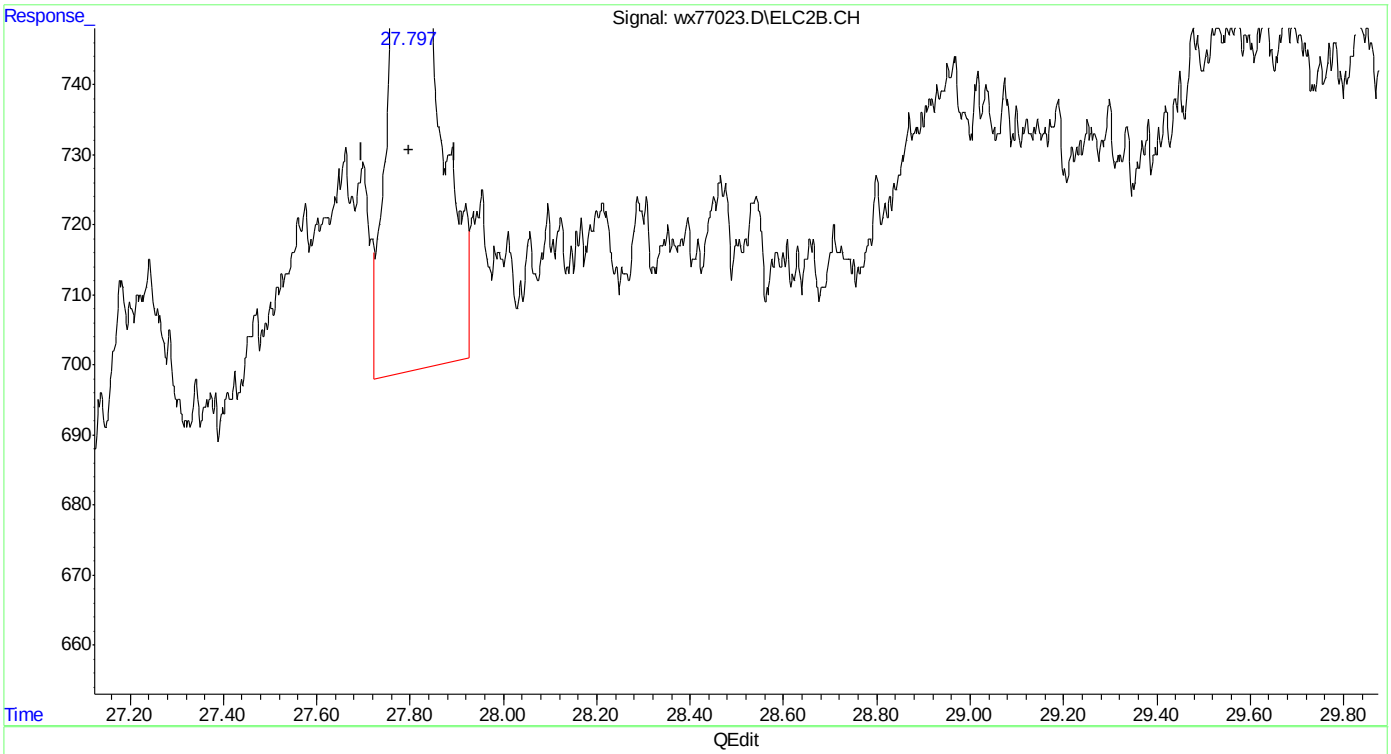
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77023.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 11:52 am
Operator : tonyf
Sample : ic3782-2,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:04:55 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:04:50 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 1.569 ppb m
response 15632

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:09:42 2016 Page: 1

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:20:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.739	28429	1.011 ppb	m
Spiked Amount 50.000		Recovery =	2.02%	
9) s 2,3,4-trifluorotoluene	19.890	24092	1.047 ppb	m
Spiked Amount 50.000		Recovery =	2.09%	
25) s fluorobenzene #2	14.744	9835	1.087 ppb	m
Spiked Amount 50.000		Recovery =	2.17%	
27) s 2,3,4-trifluorotoluen...	19.869	6444	1.187 ppb	m
Spiked Amount 50.000		Recovery =	2.37%	
Target Compounds				
1) h rt5.5-7	6.100	22767	1.016 ppb	
2) h rt7/10	8.370	31166	1.076 ppb	
3) mtbe	9.211f	13081	0.991 ppb	m
4) h rt10/13	13.510	27442	1.023 ppb	
5) benzene	14.242	38017	1.070 ppb	m
8) toluene	18.748	34687	0.992 ppb	m
11) h rt20/25	21.600	49618	1.369 ppb	
13) ethylbenzene	21.885	36321	1.051 ppb	m
14) m,p-xylene	22.038	75684	2.123 ppb	
15) o-xylene	22.839	38750	1.093 ppb	m
16) h Decane	23.990	46841	1.259 ppb	
17) t 1,3,5-trimethylbenzene	24.339	41000	1.096 ppb	m
18) 1,2,4-trimethylbenzene	24.868	38112	1.063 ppb	m
19) h Butylcyclohexane	25.040	51203	1.319 ppb	
20) naphthalene	27.797	10975	0.595 ppb	m
23) mtbe #2	9.191f	5014	1.108 ppb	m
24) benzene #2	14.245	14757	1.032 ppb	m
26) toluene #2	18.749	13020	1.002 ppb	m
28) ethylbenzene #2	21.886	12133	1.051 ppb	m
29) m,p-xylene #2	22.034	29316	2.080 ppb	m
30) o-xylene #2	22.842	12350	1.058 ppb	m
31) t 1,3,5-trimethylbenzen...	24.341	19048	1.099 ppb	m
32) 1,2,4-trimethylbenzen...	24.870	14313	1.117 ppb	m
33) naphthalene #2	27.797	6835	0.717 ppb	m
34) h c9-c10 arom as 1,2,4-tmb	24.870	14324	1.119 ppb	

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

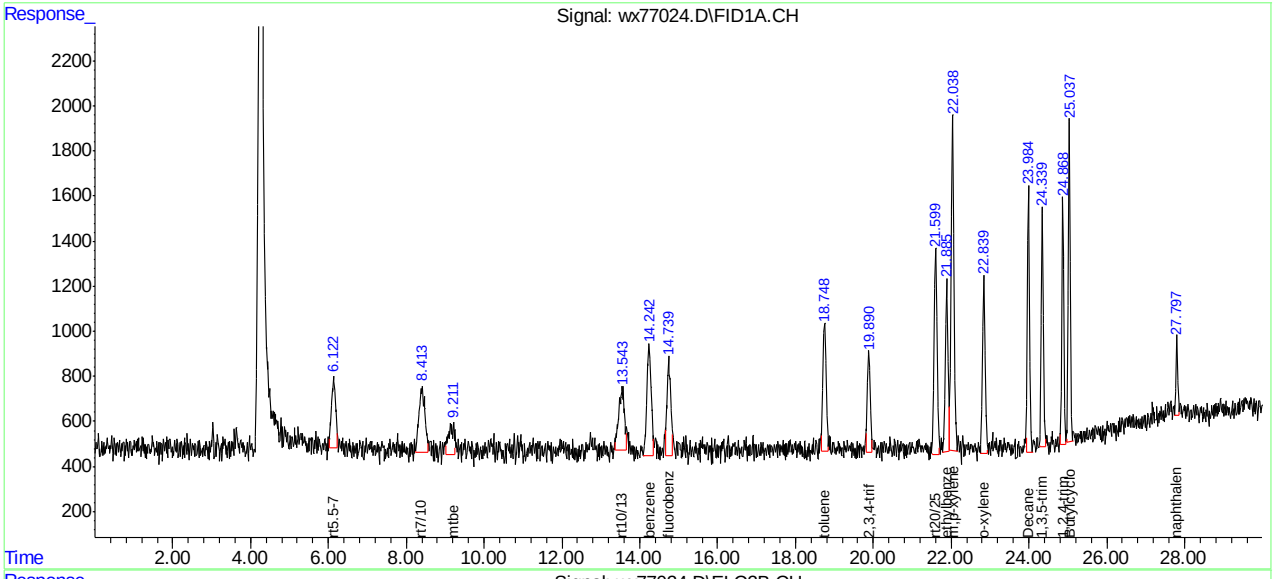
7.5.9
7

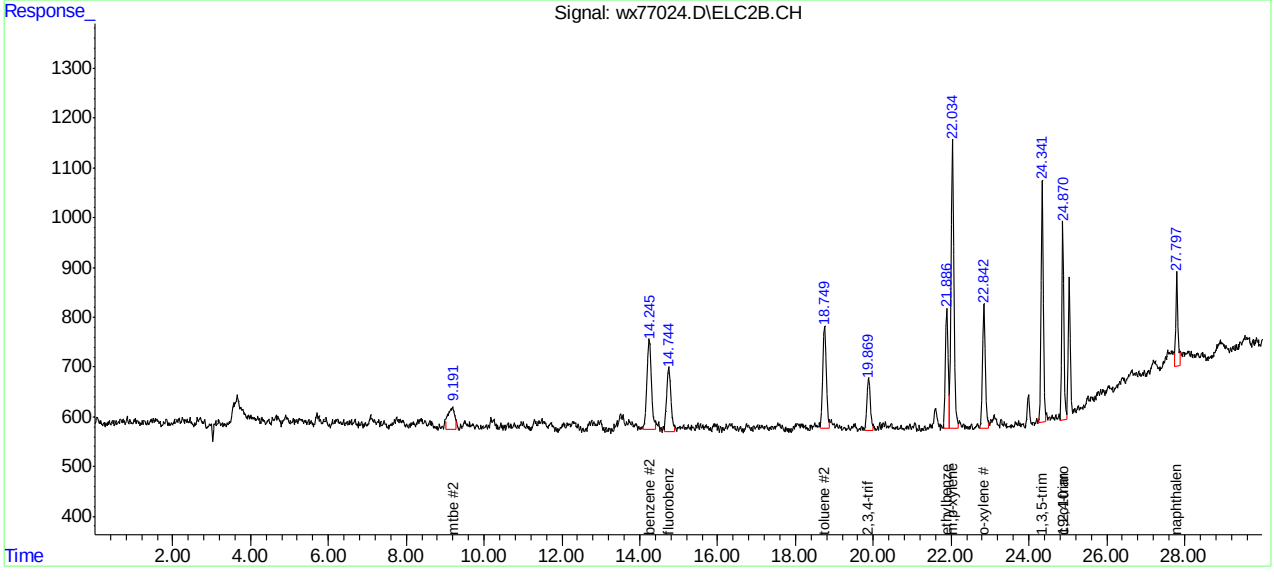
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:20:39 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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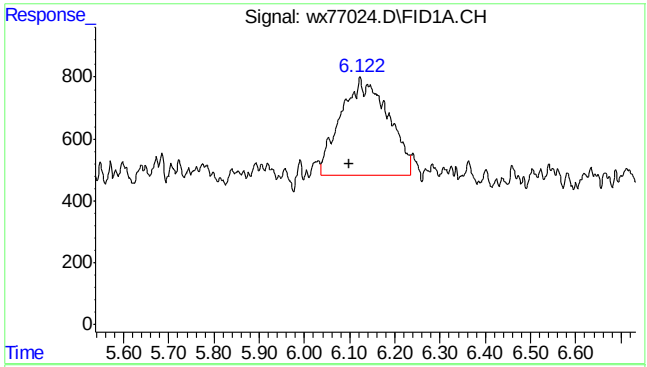
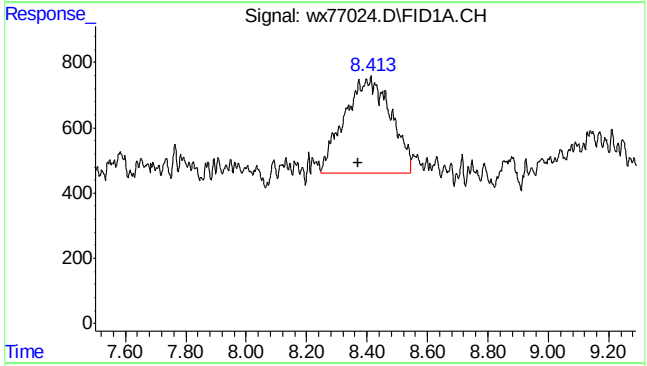


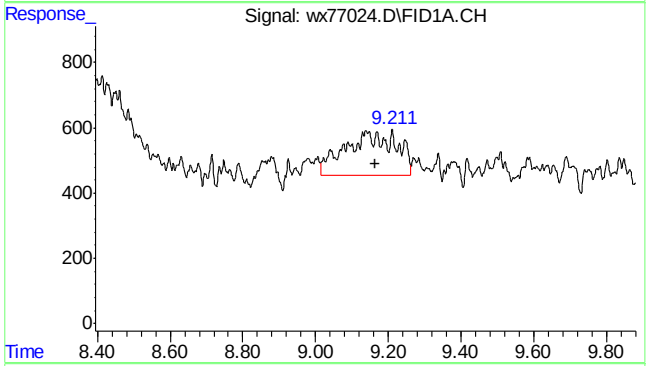
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 22767
Conc: 1.02 ppb m



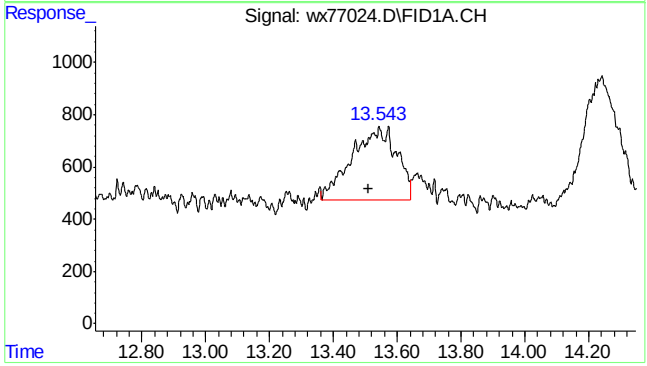
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 31166
Conc: 1.08 ppb m



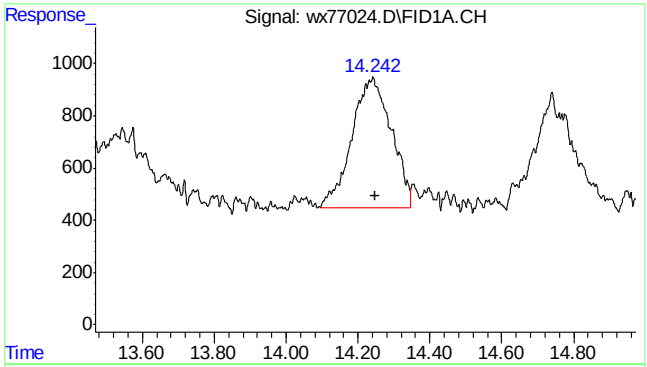
#3 mtbe

R.T.: 9.211 min
Delta R.T.: 0.045 min
Response: 13081
Conc: 0.99 ppb m



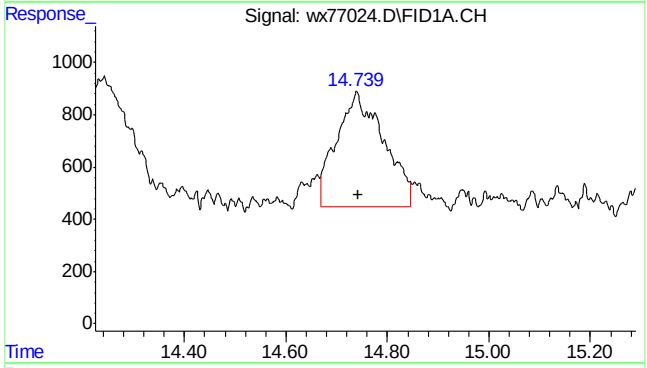
#4 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 27442
Conc: 1.02 ppb m



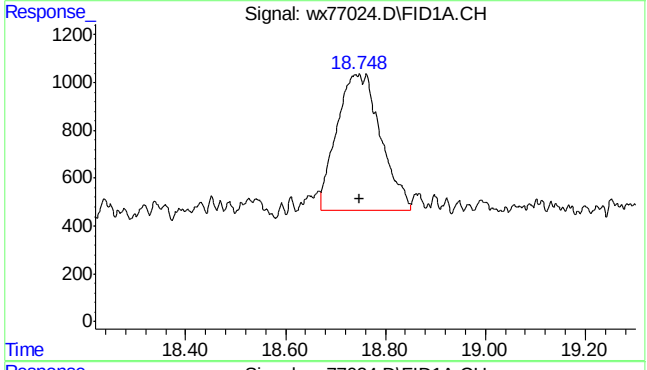
#5 benzene

```
      R.T.:   14.242 min
Delta R.T.:   -0.005 min
  Response:     38017
      Conc:   1.07 ppb m
```



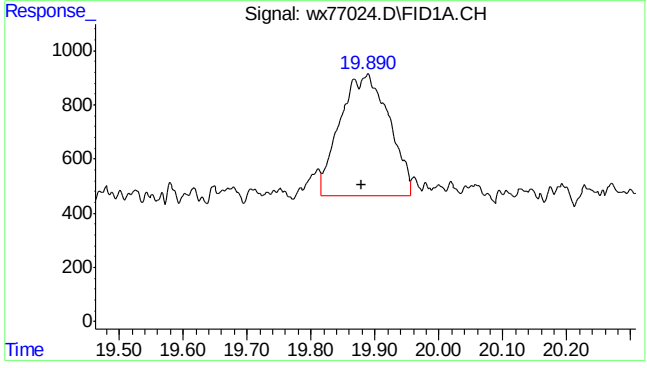
#6 fluorobenzene

```
      R.T.:   14.739 min
Delta R.T.:   -0.004 min
  Response:     28429
      Conc:   1.01 ppb m
```



#8 toluene

```
      R.T.:   18.748 min
Delta R.T.:    0.000 min
  Response:     34687
      Conc:   0.99 ppb m
```



#9 2,3,4-trifluorotoluene

```
      R.T.:   19.890 min
Delta R.T.:    0.010 min
  Response:     24092
      Conc:   1.05 ppb m
```

7.5.9

7

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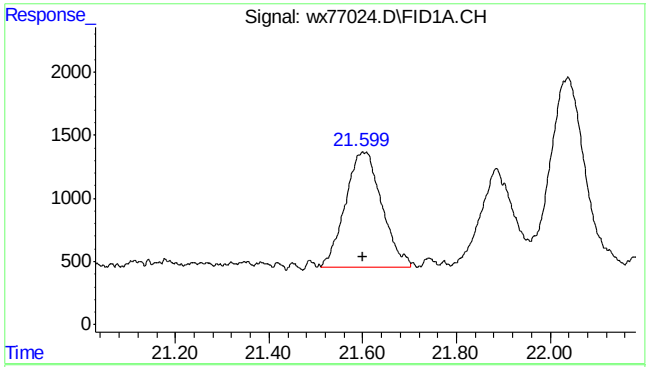
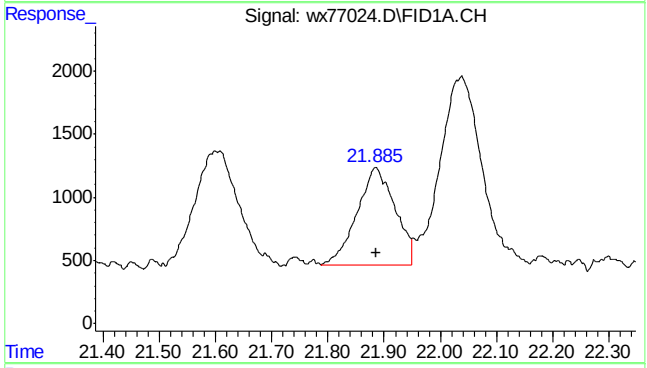


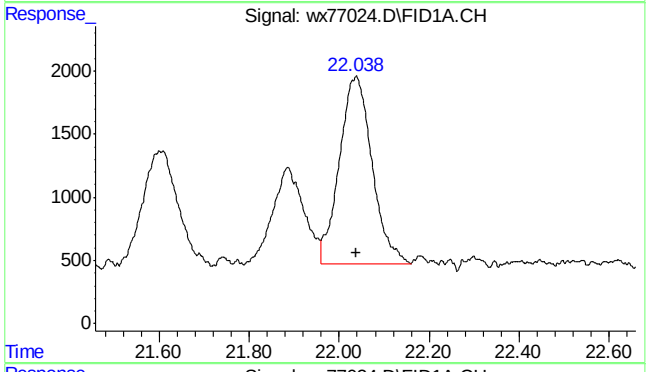
#11 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 49618
Conc: 1.37 ppb m



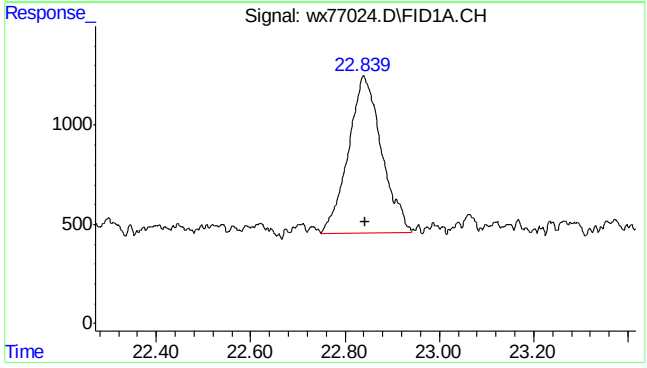
#13 ethylbenzene

R.T.: 21.885 min
Delta R.T.: -0.002 min
Response: 36321
Conc: 1.05 ppb m



#14 m,p-xylene

R.T.: 22.038 min
Delta R.T.: 0.002 min
Response: 75684
Conc: 2.12 ppb



#15 o-xylene

R.T.: 22.839 min
Delta R.T.: -0.004 min
Response: 38750
Conc: 1.09 ppb m

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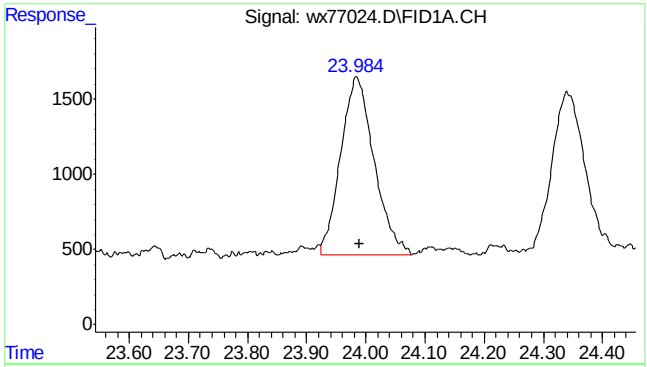
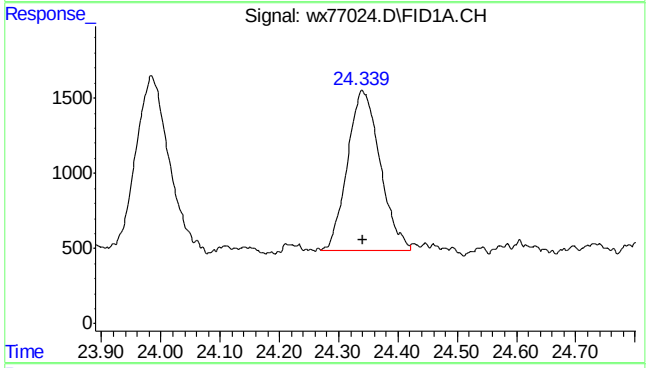


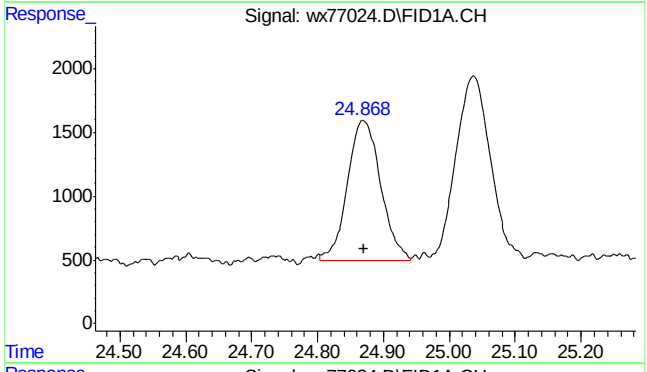
#16 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 46841
Conc: 1.26 ppb m



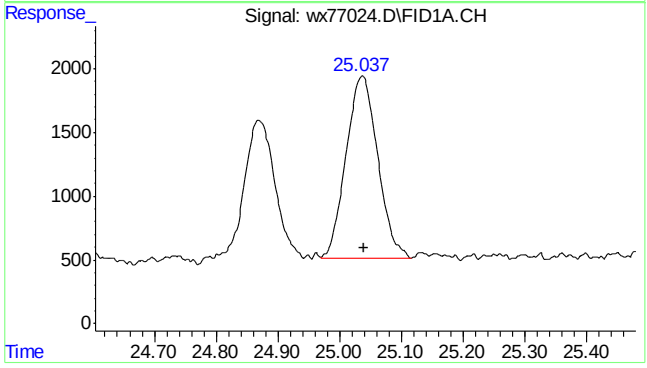
#17 1,3,5-trimethylbenzene

R.T.: 24.339 min
Delta R.T.: -0.003 min
Response: 41000
Conc: 1.10 ppb m



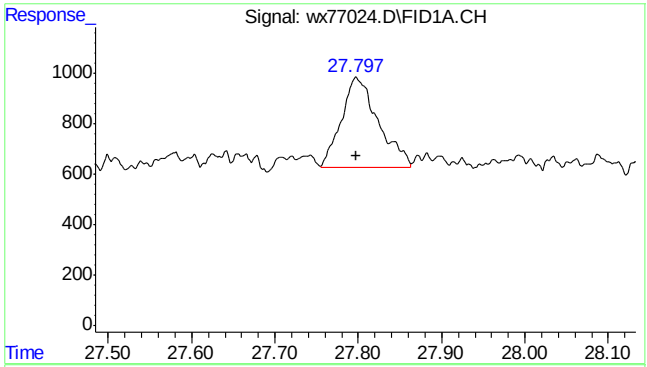
#18 1,2,4-trimethylbenzene

R.T.: 24.868 min
Delta R.T.: -0.002 min
Response: 38112
Conc: 1.06 ppb m



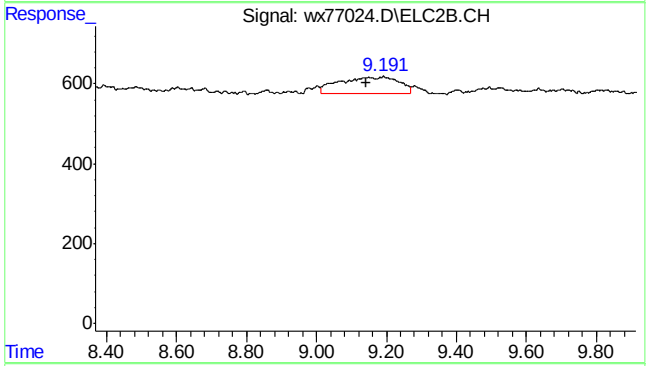
#19 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 51203
Conc: 1.32 ppb m



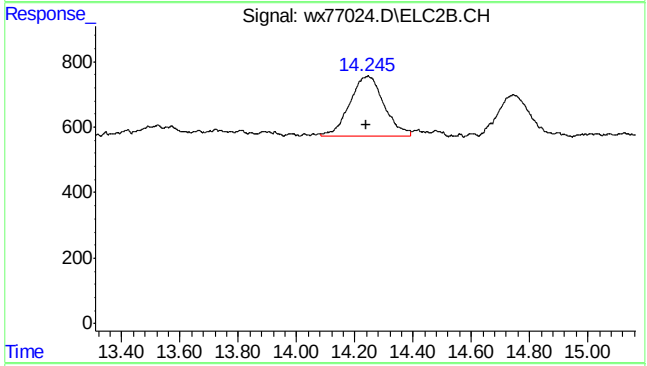
#20 naphthalene

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 10975
Conc: 0.60 ppb m



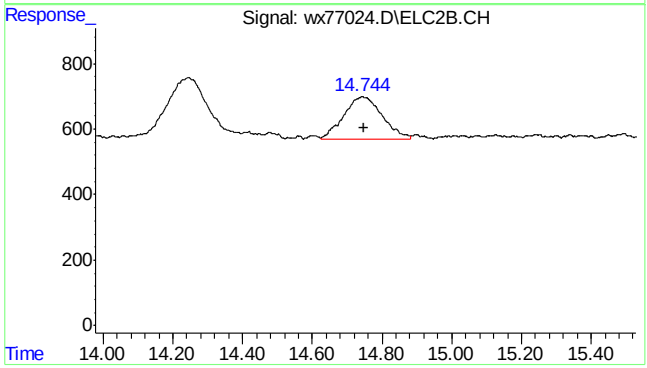
#23 mtbe #2

R.T.: 9.191 min
Delta R.T.: 0.050 min
Response: 5014
Conc: 1.11 ppb m



#24 benzene #2

R.T.: 14.245 min
Delta R.T.: 0.005 min
Response: 14757
Conc: 1.03 ppb m



#25 fluorobenzene #2

R.T.: 14.744 min
Delta R.T.: -0.004 min
Response: 9835
Conc: 1.09 ppb m

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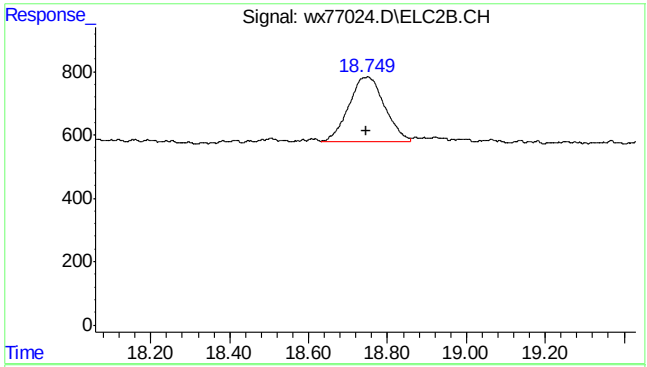
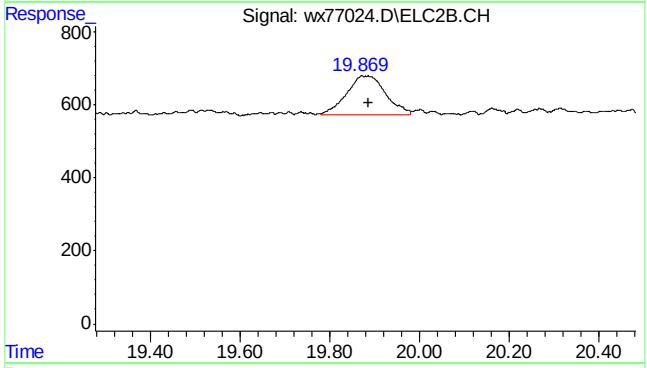


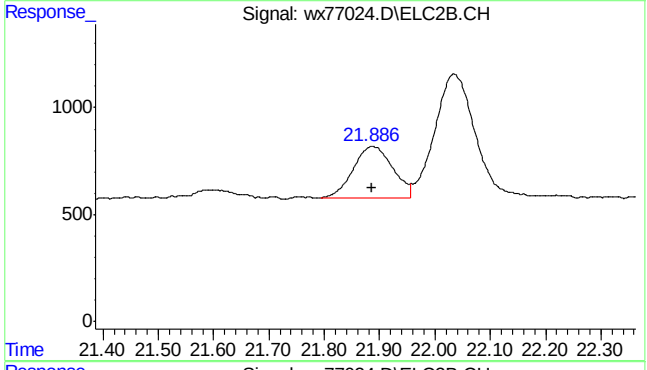
#26 toluene #2

R.T.: 18.749 min
Delta R.T.: 0.003 min
Response: 13020
Conc: 1.00 ppb m



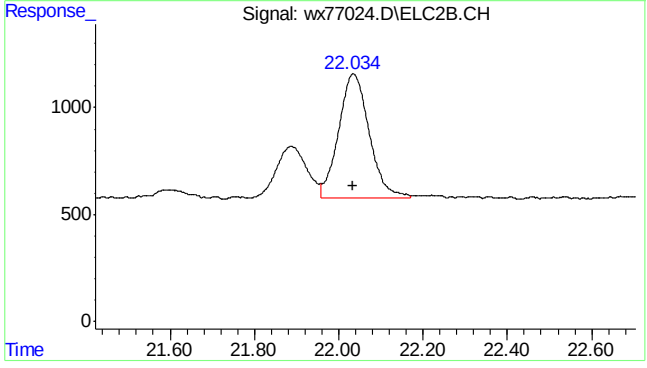
#27 2,3,4-trifluorotoluene #2

R.T.: 19.869 min
Delta R.T.: -0.016 min
Response: 6444
Conc: 1.19 ppb m



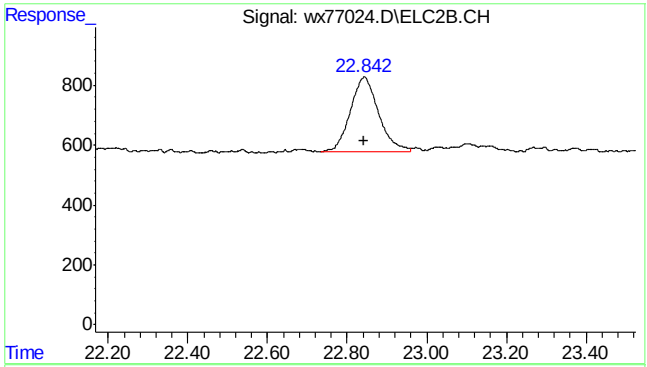
#28 ethylbenzene #2

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 12133
Conc: 1.05 ppb m



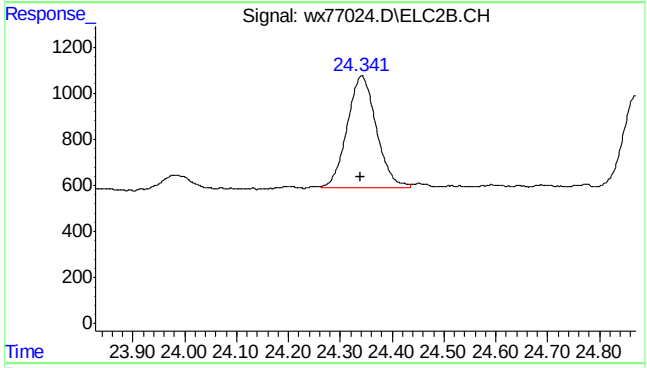
#29 m,p-xylene #2

R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 29316
Conc: 2.08 ppb m



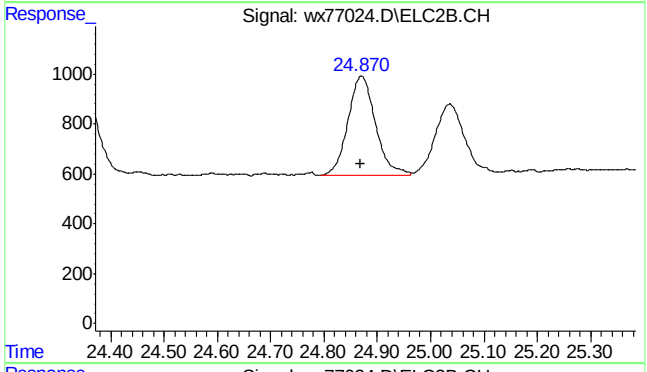
#30 o-xylene #2

R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 12350
Conc: 1.06 ppb m



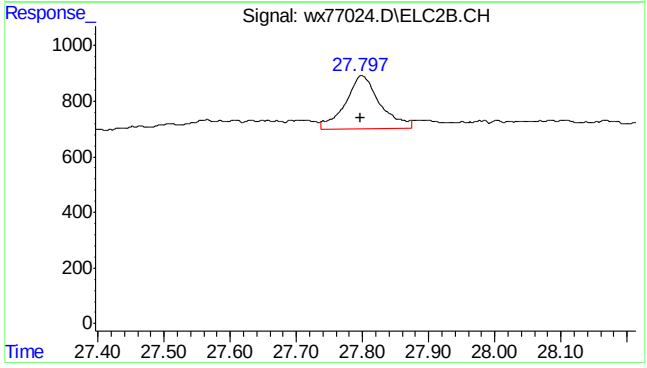
#31 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 19048
Conc: 1.10 ppb m



#32 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.002 min
Response: 14313
Conc: 1.12 ppb m



#33 naphthalene #2

R.T.: 27.797 min
Delta R.T.: 0.000 min
Response: 6835
Conc: 0.72 ppb m

7.5.9

7

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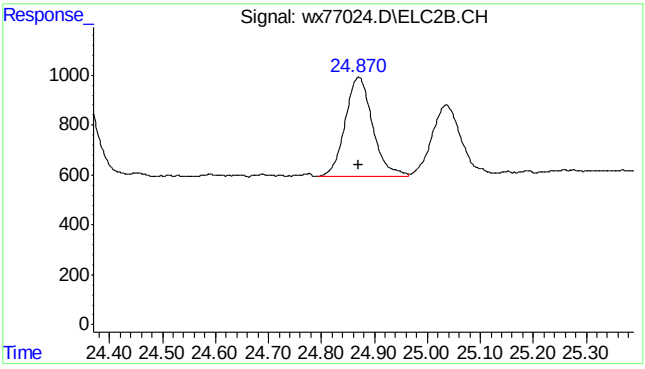

#34 c9-c10 arom as 1,2,4-tmb

R.T.:	24.870 min
Delta R.T.:	0.000 min
Response:	14324
Conc:	1.12 ppb m

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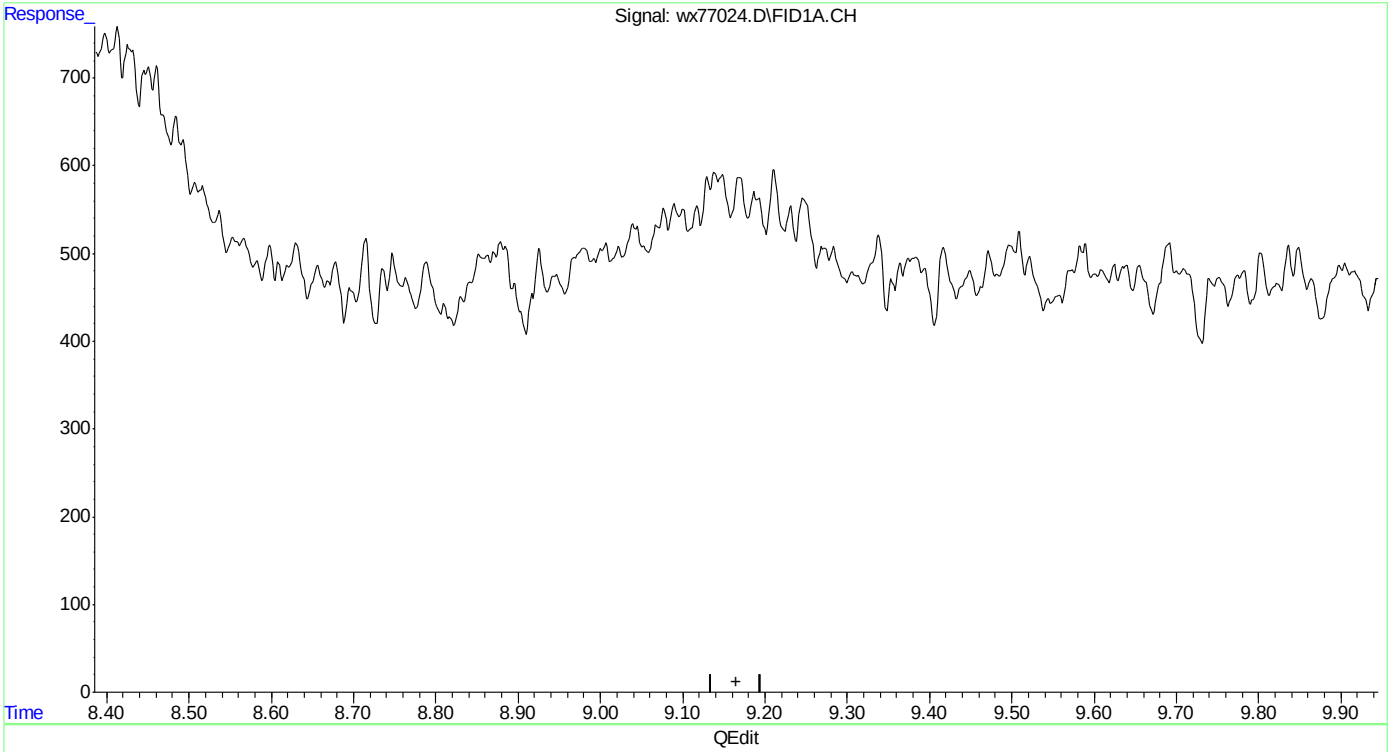
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.165min 0.000 ppb
response 0

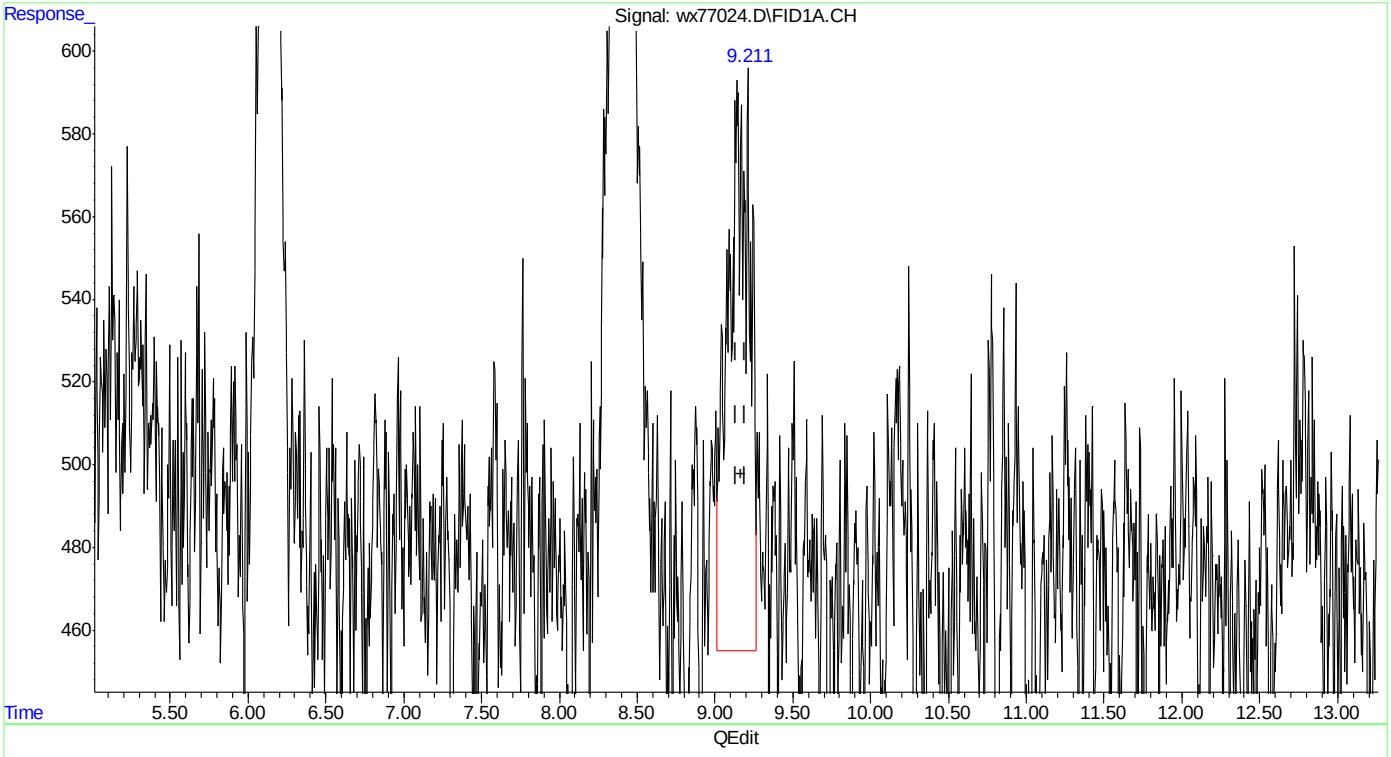
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:11:38 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(3) mtbe
9.211min 0.991 ppb m
response 13081

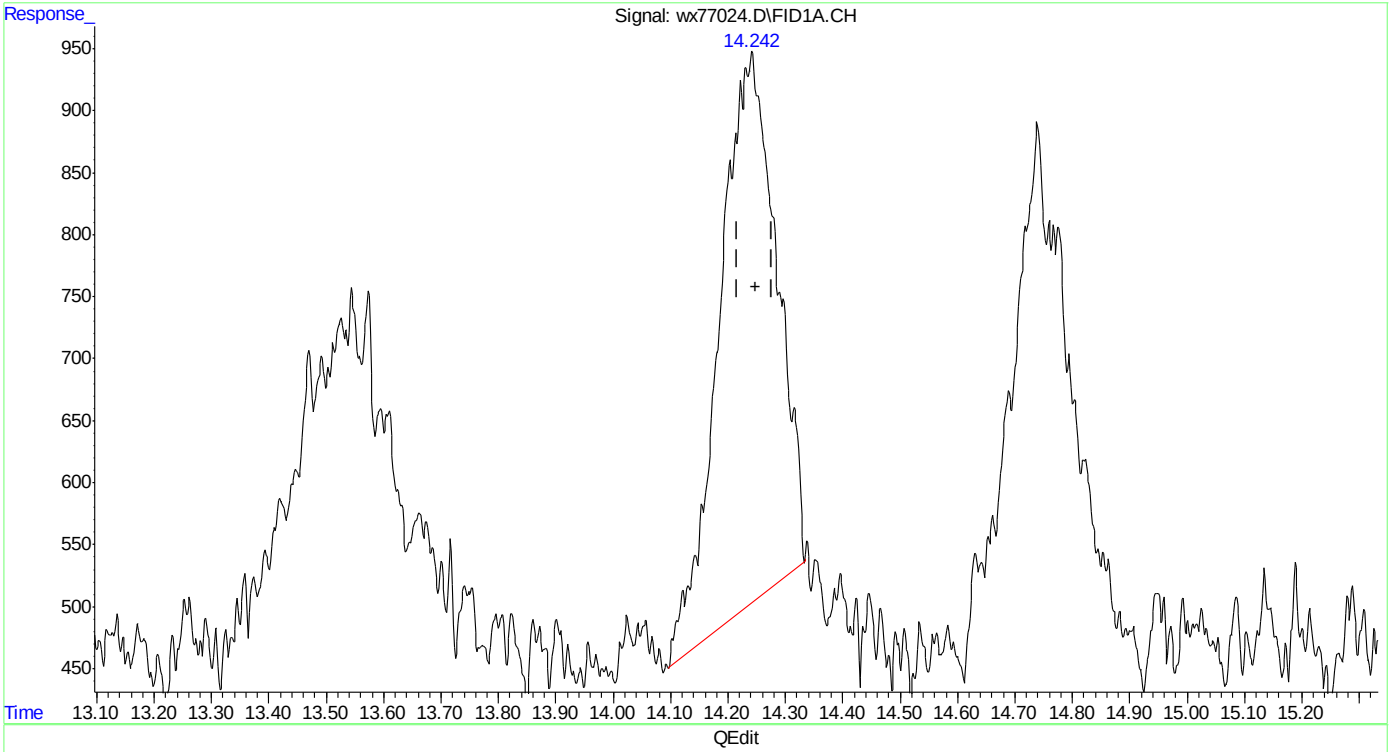
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:09 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.242min 0.866 ppb
response 30766

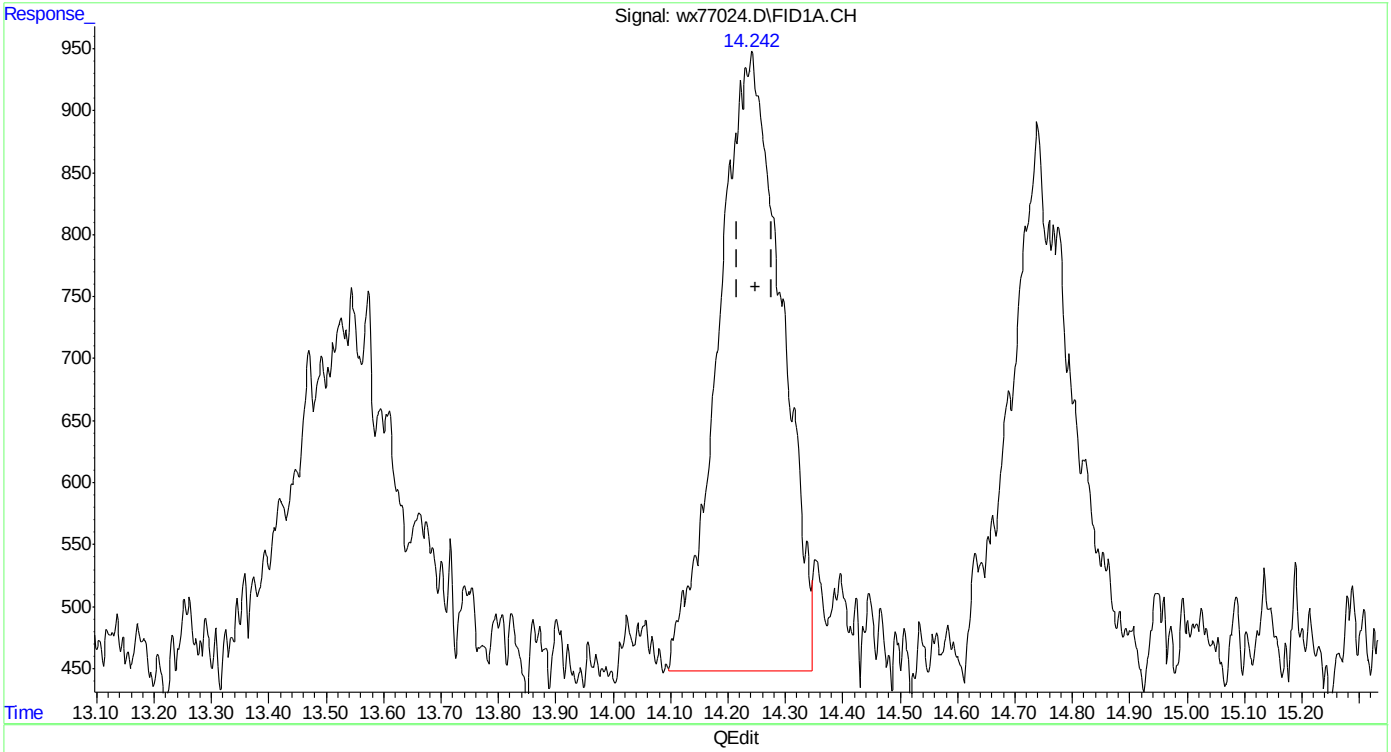
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:37 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(5) benzene
14.242min 1.070 ppb m
response 38017

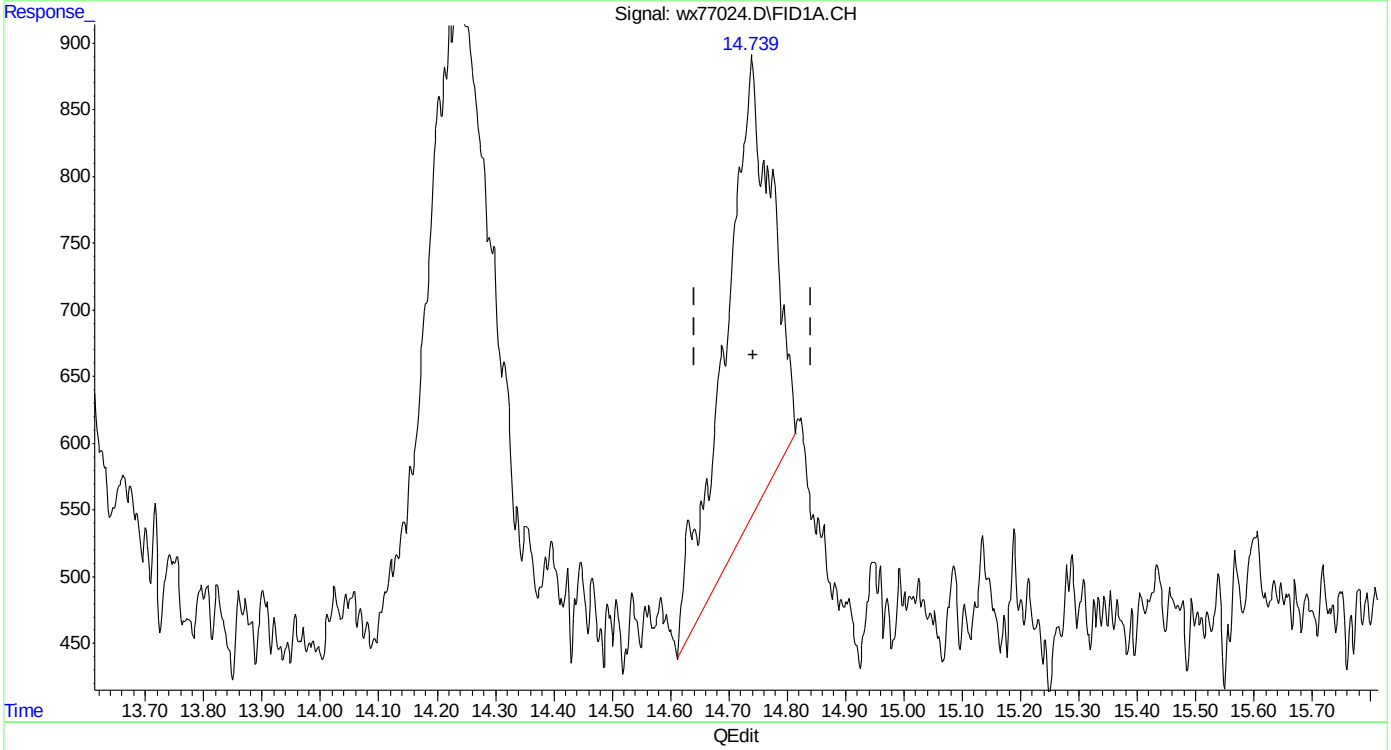
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.740min 0.685 ppb
response 19274

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:12:48 2016

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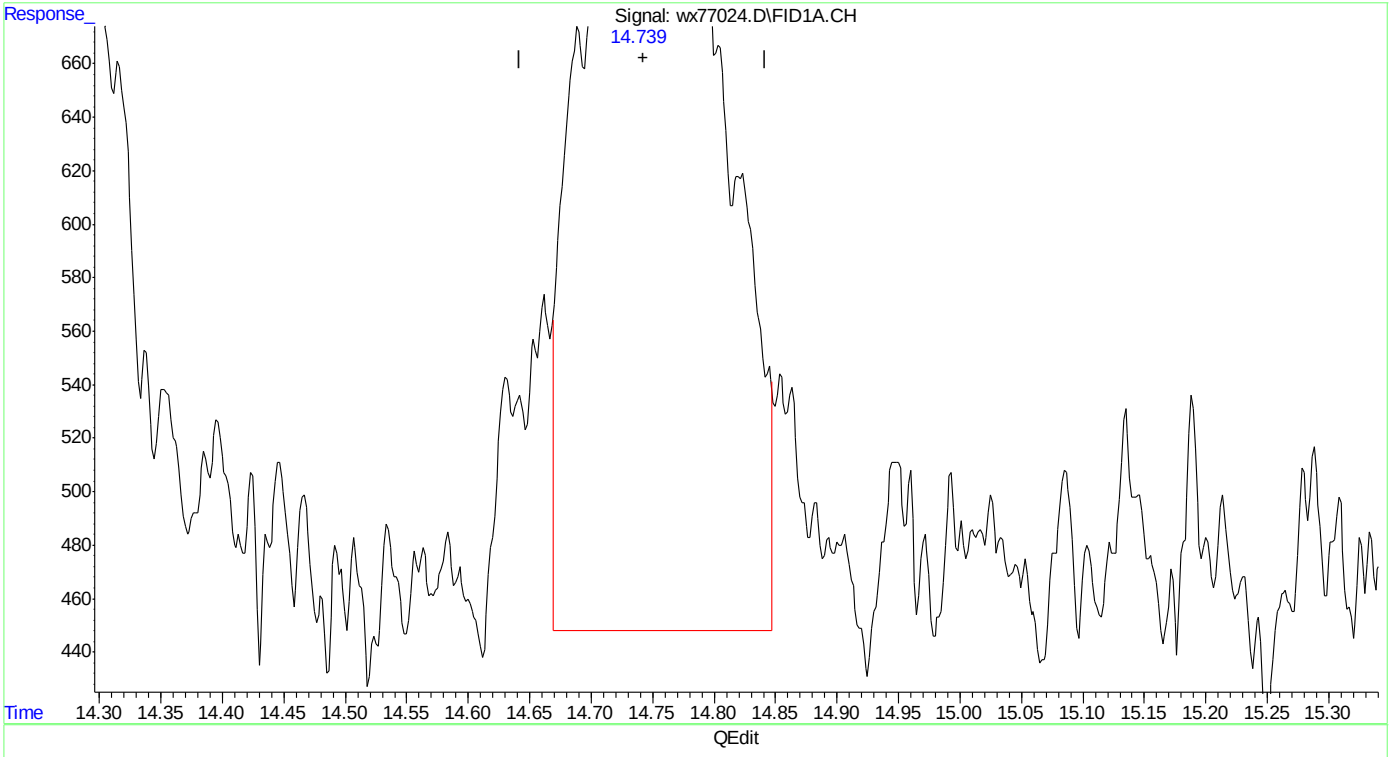
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(6) fluorobenzene (s)
14.739min 1.011 ppb m
response 28429

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:04 2016 Page: 1

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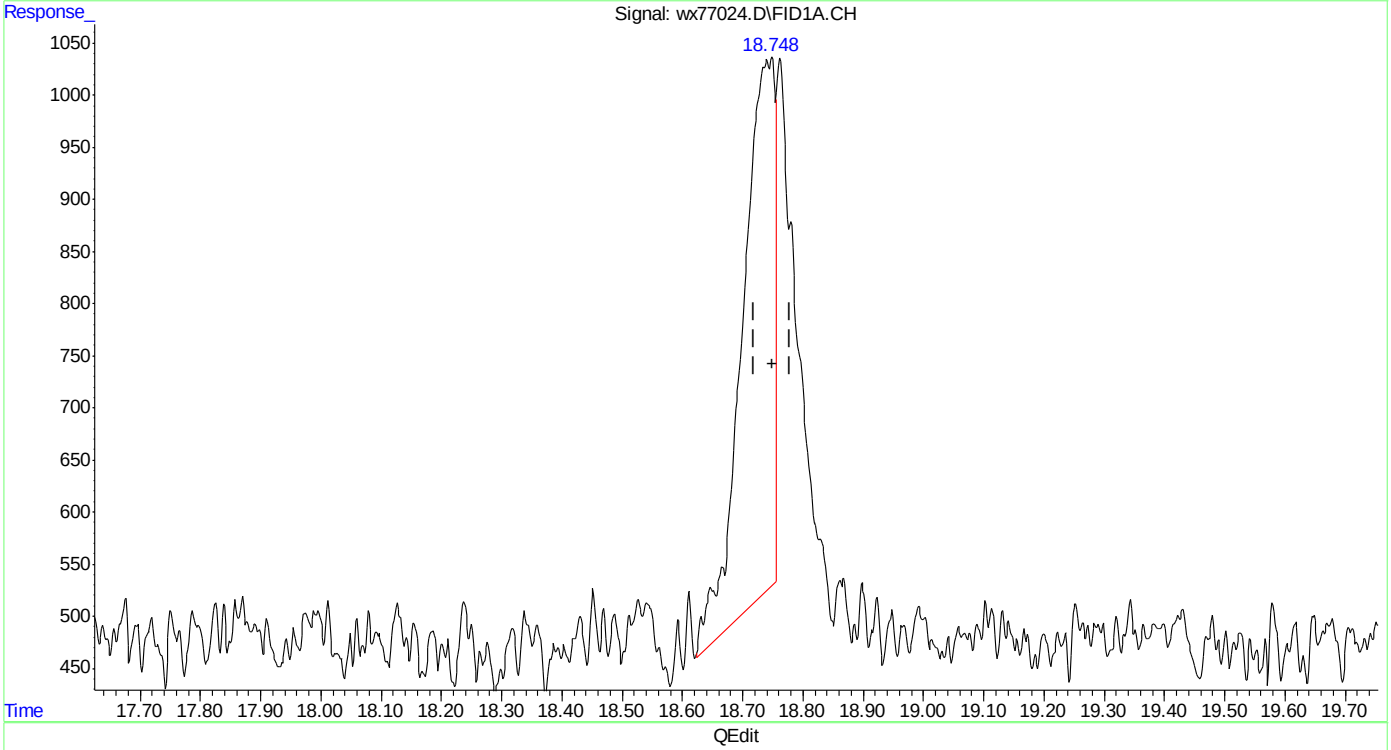
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(8) toluene
18.749min 0.538 ppb
response 18812

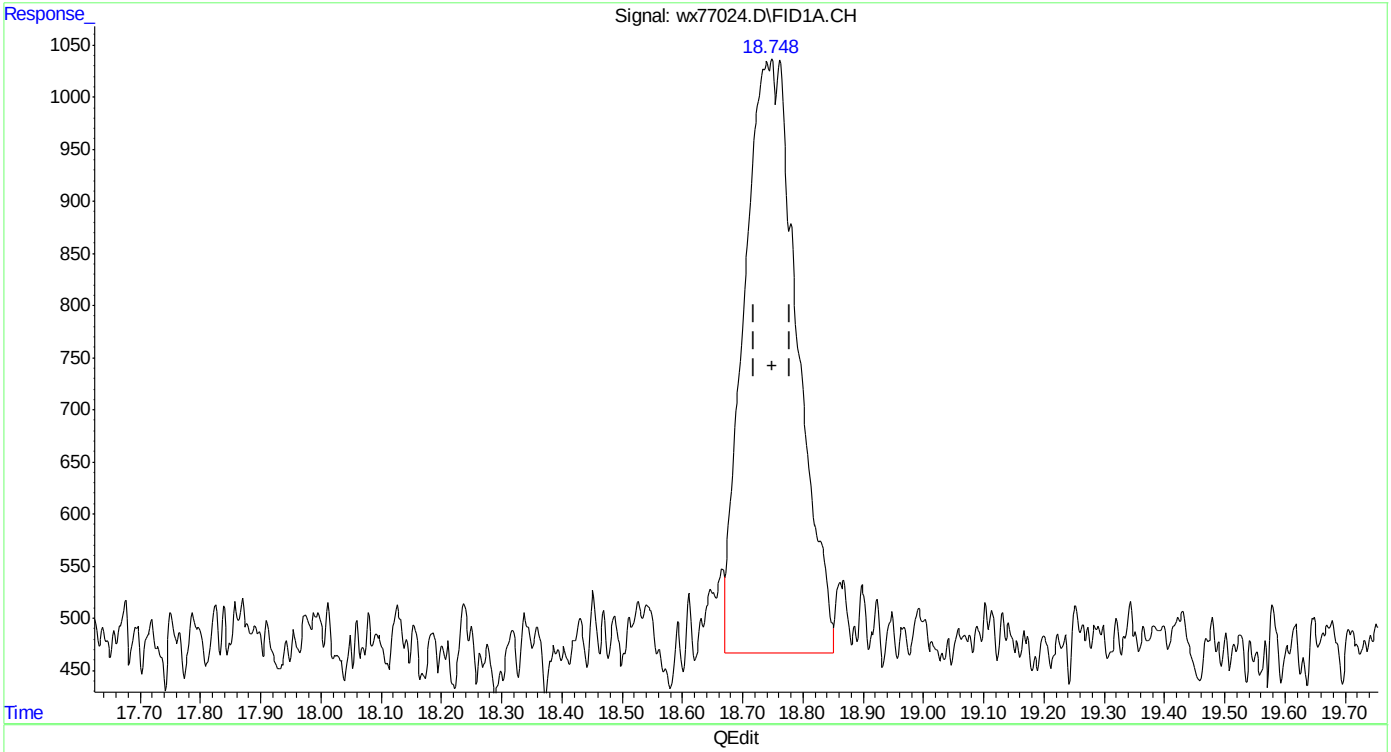
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:11 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(8) toluene

18.748min 0.992 ppb m

response 34687

(+) = Expected Retention Time

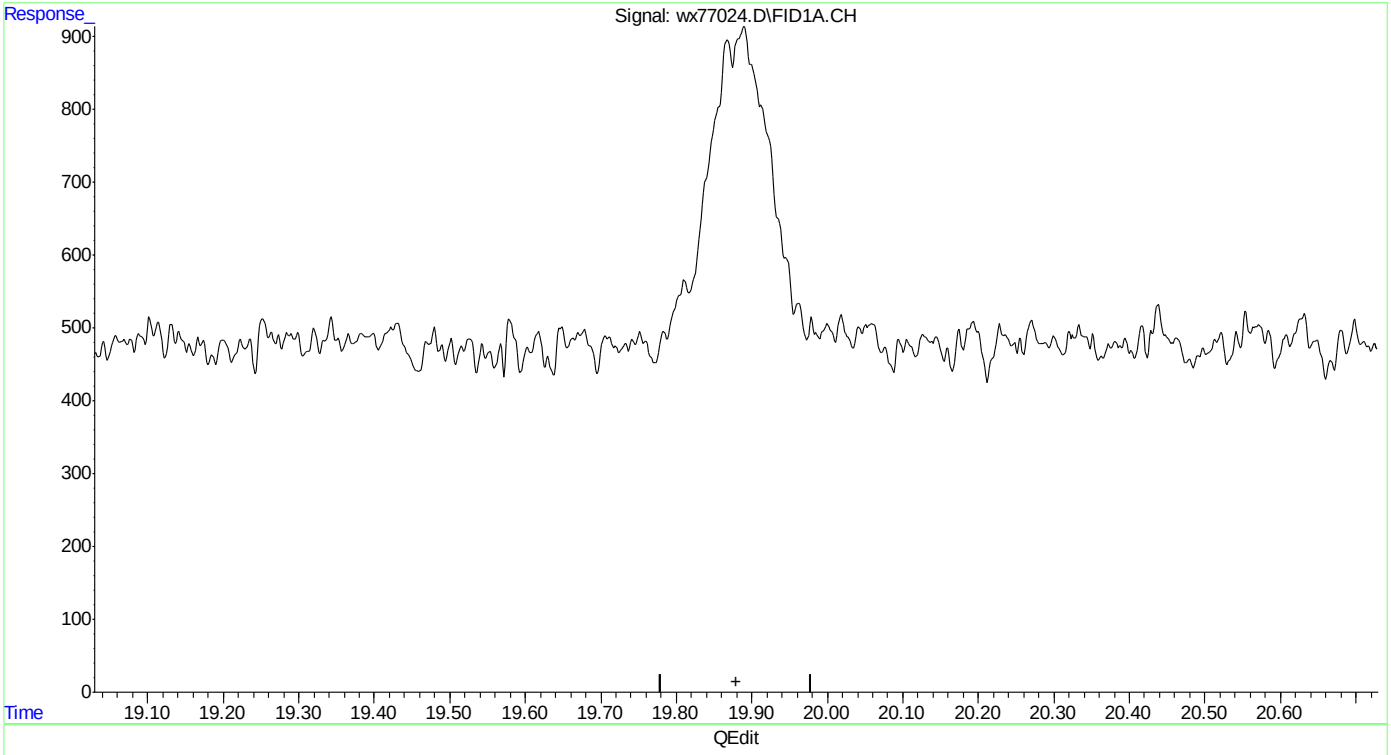
wx160602vphmaster.M Thu Jun 02 13:13:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.880min 0.000 ppb
response 0

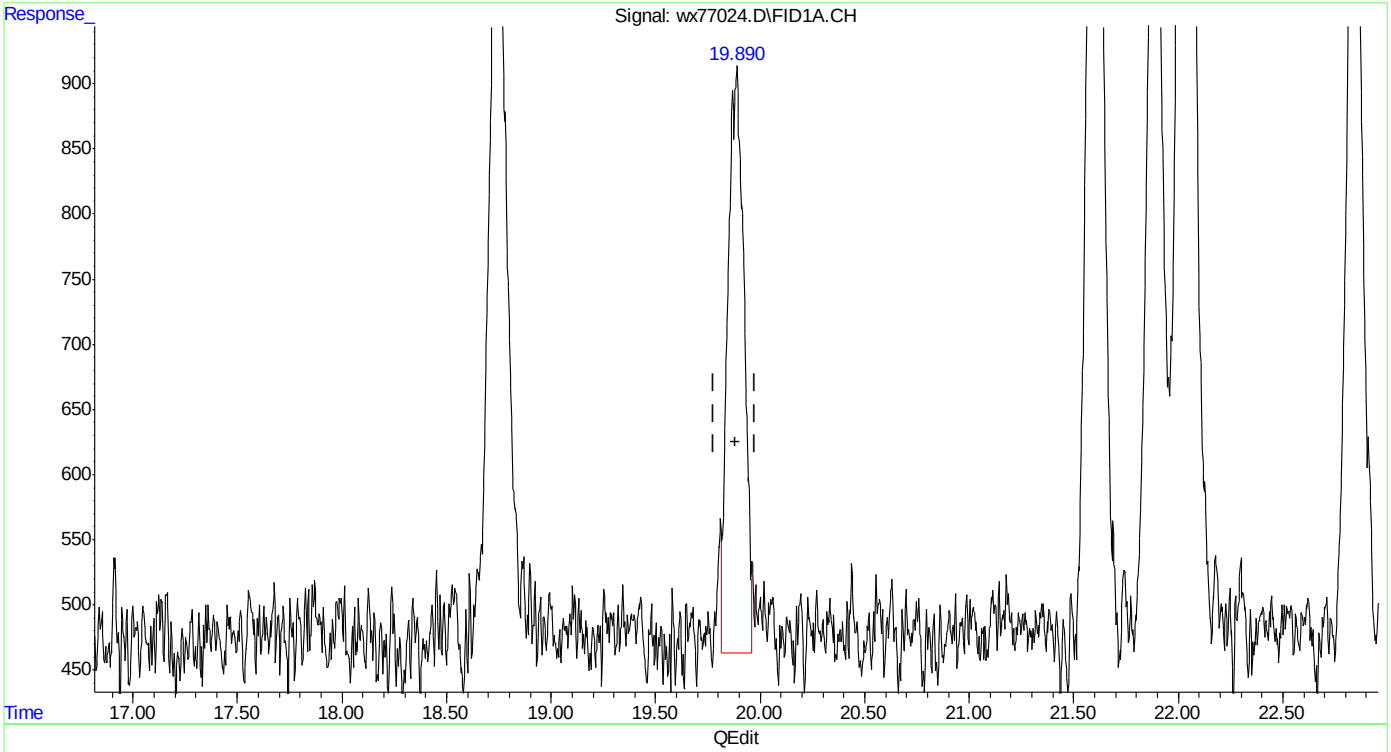
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(9) 2,3,4-trifluorotoluene (s)
19.890min 1.047 ppb m
response 24092

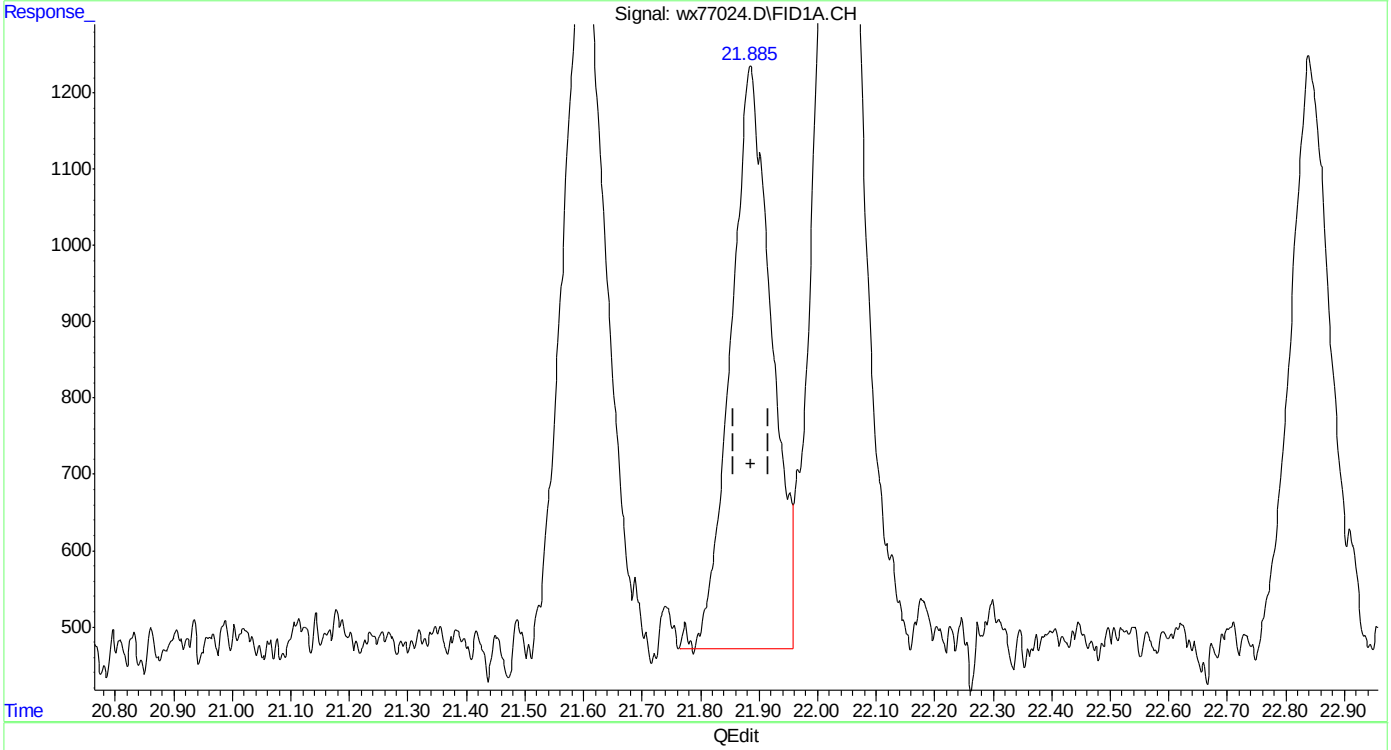
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:13:42 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.885min 1.070 ppb
response 36997

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:02 2016

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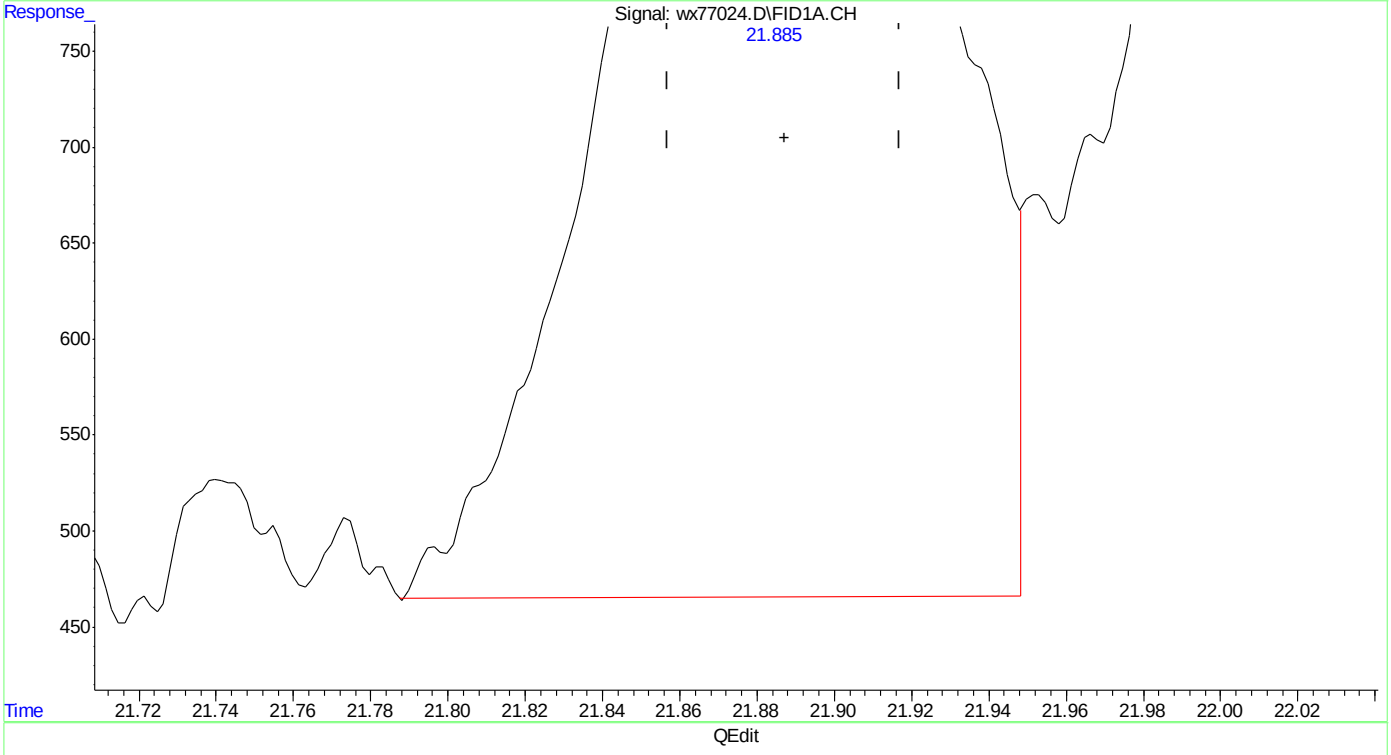
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(13) ethylbenzene
21.885min 1.051 ppb m
response 36321

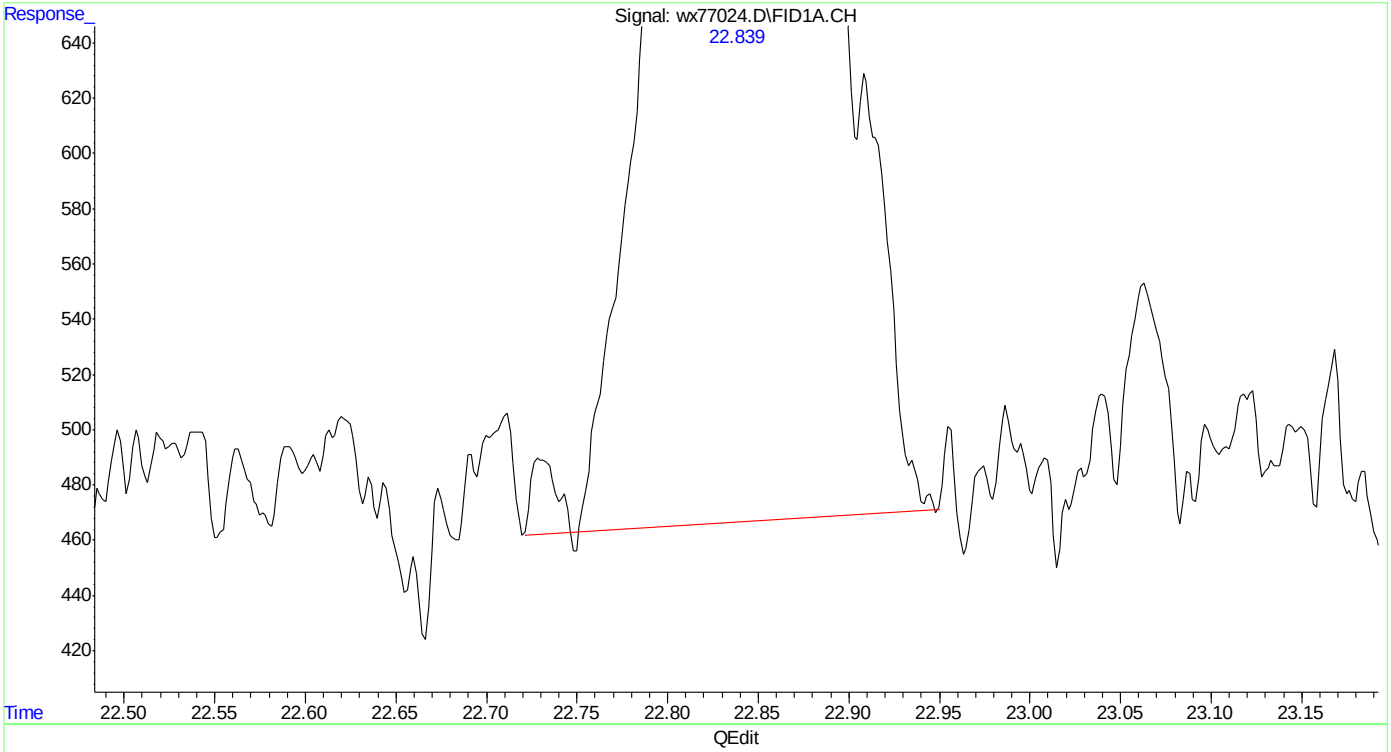
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.839min 1.070 ppb
response 37948

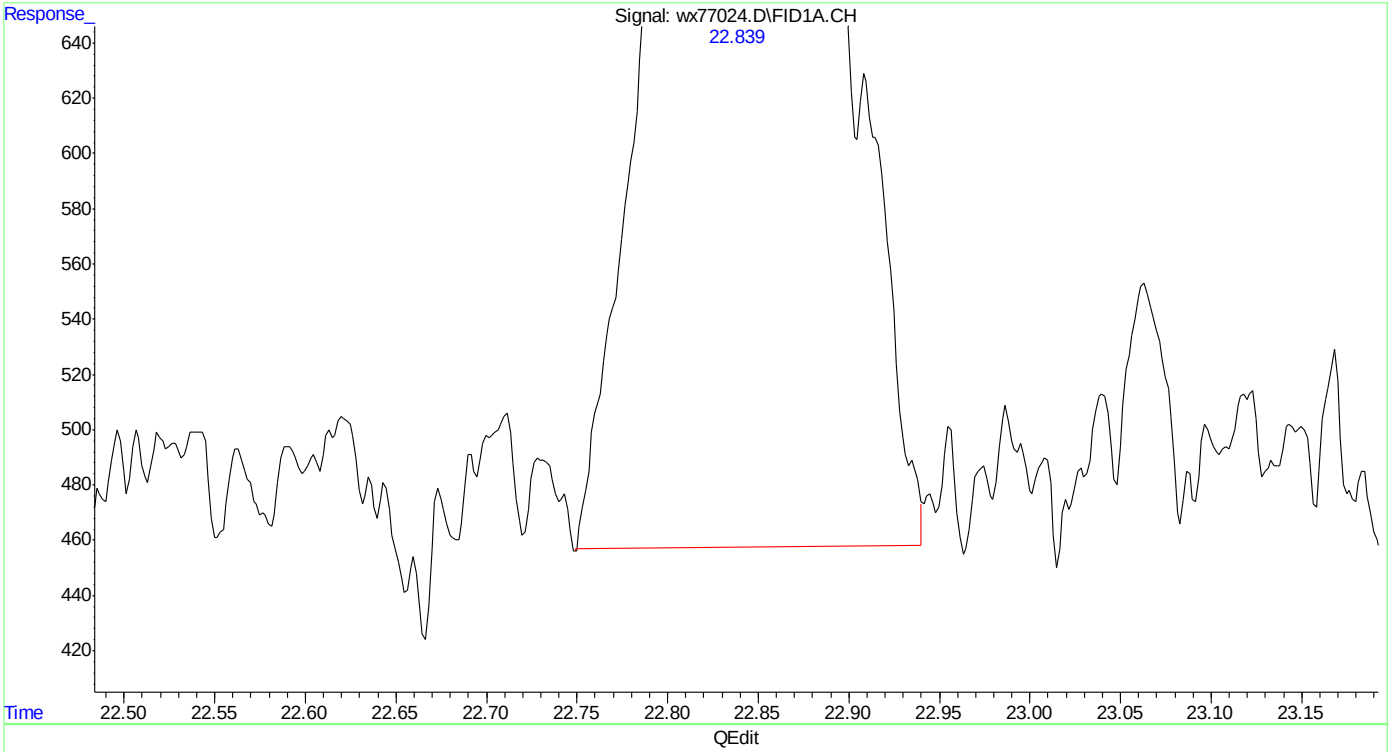
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:19 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(15) o-xylene
22.839min 1.093 ppb m
response 38750

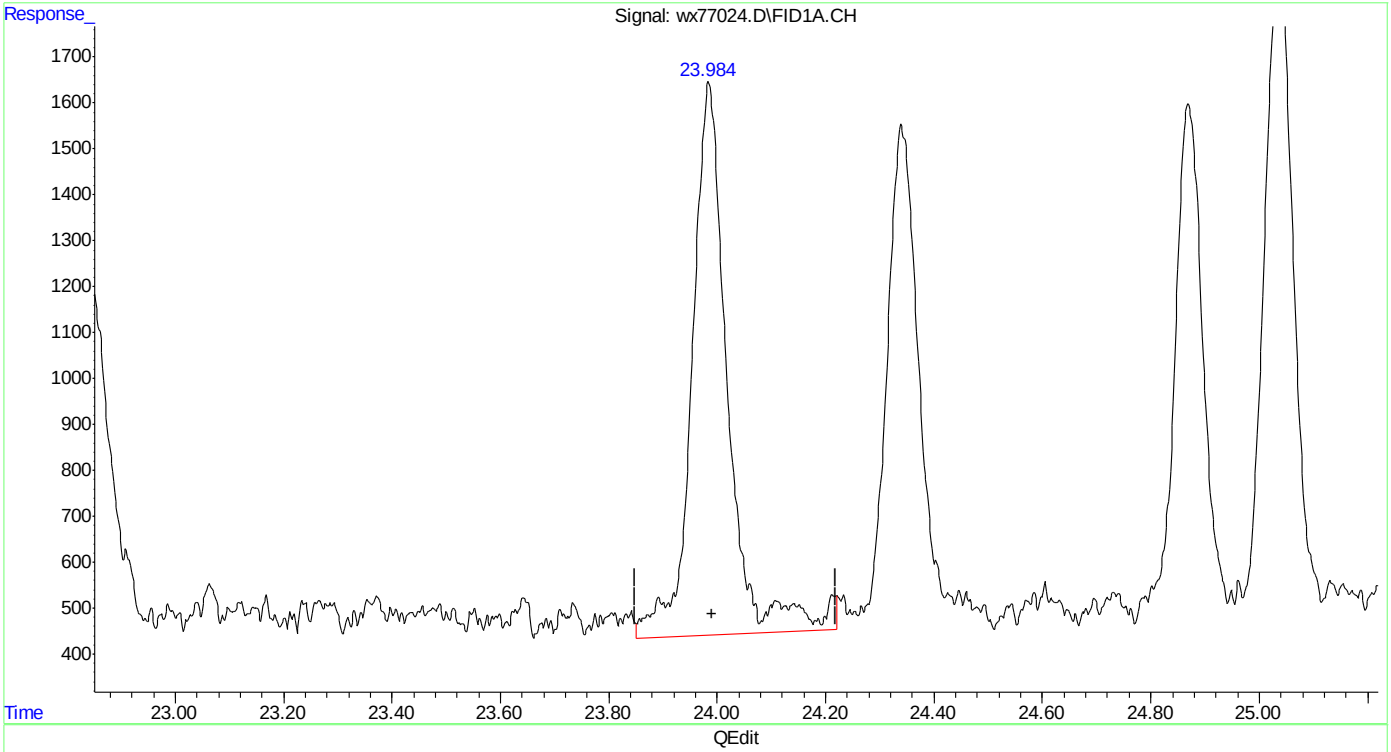
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:24 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 1.487 ppb
response 55327

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:28 2016

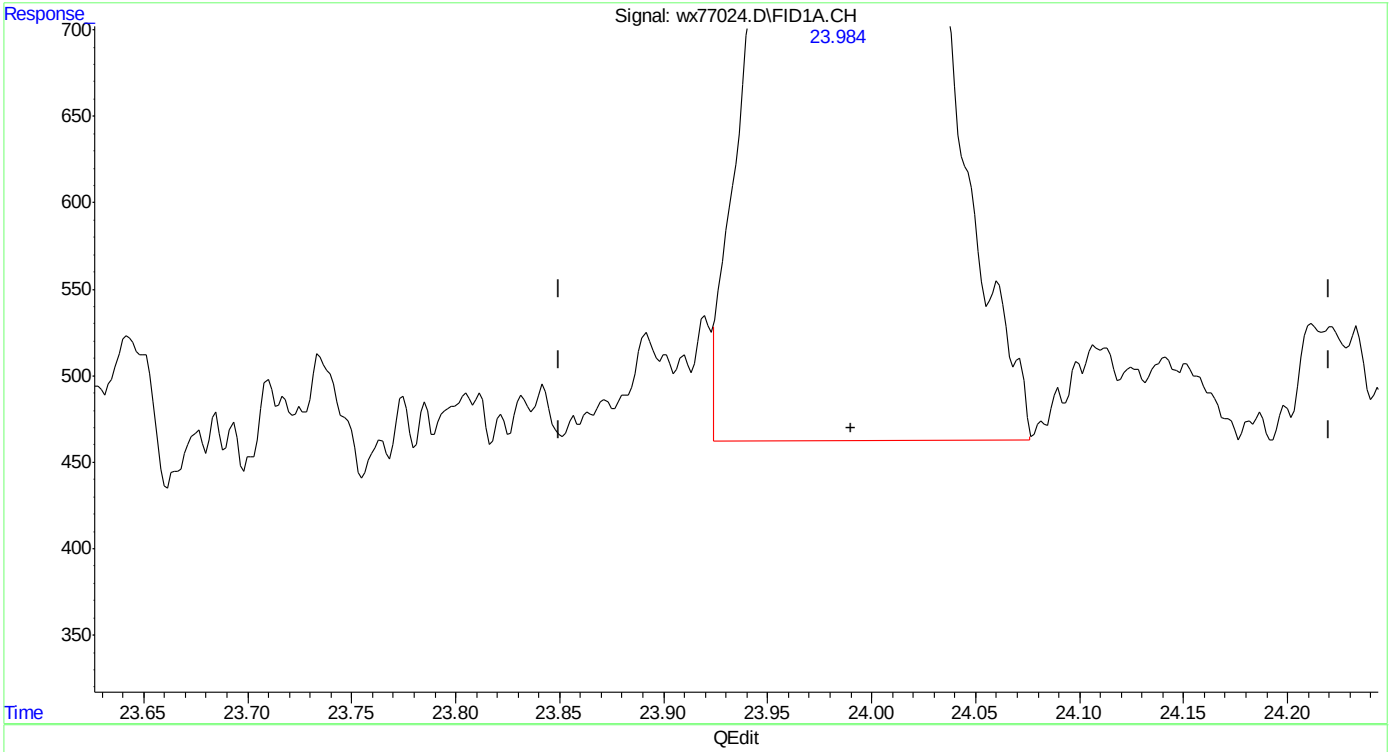
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(16) Decane (h)
23.990min 1.259 ppb m
response 46841

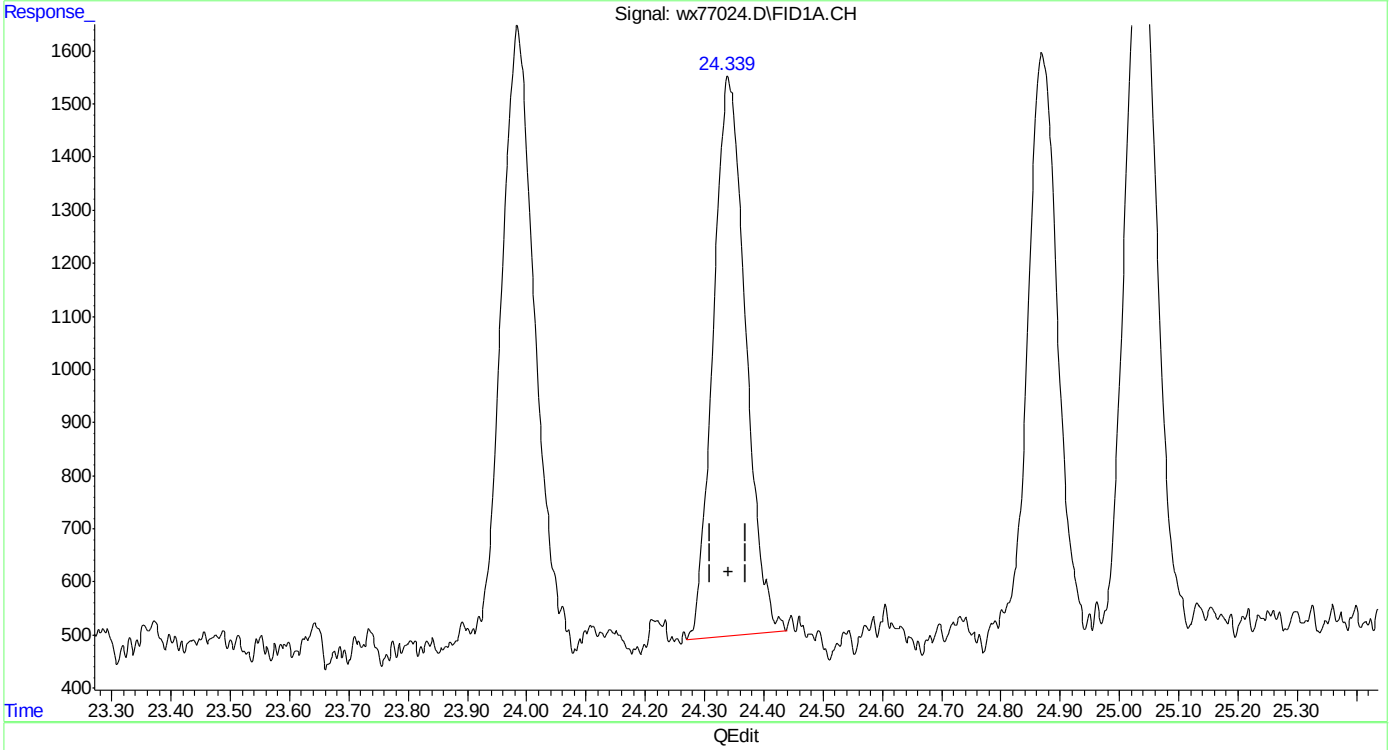
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
24.339min 1.066 ppb
response 39868

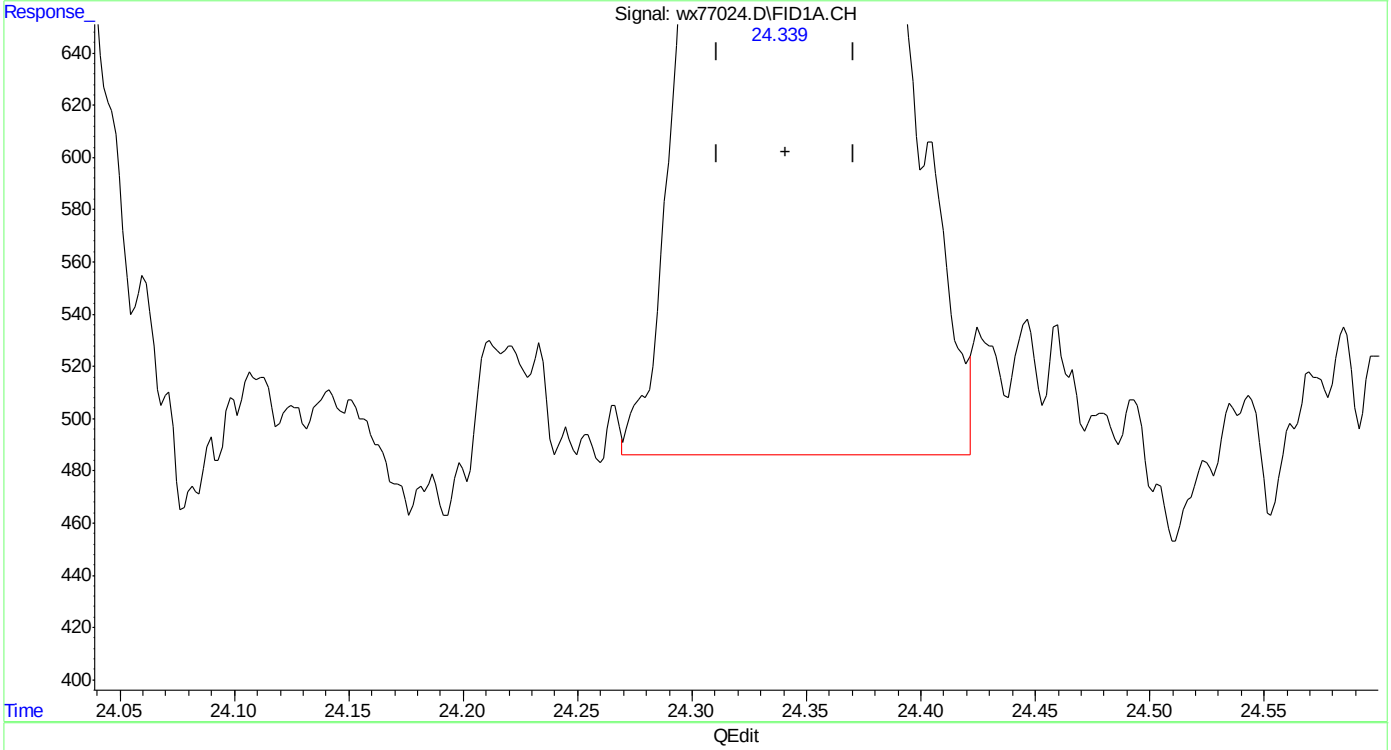
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:14:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(17) 1,3,5-trimethylbenzene (t)
24.339min 1.096 ppb m
response 41000

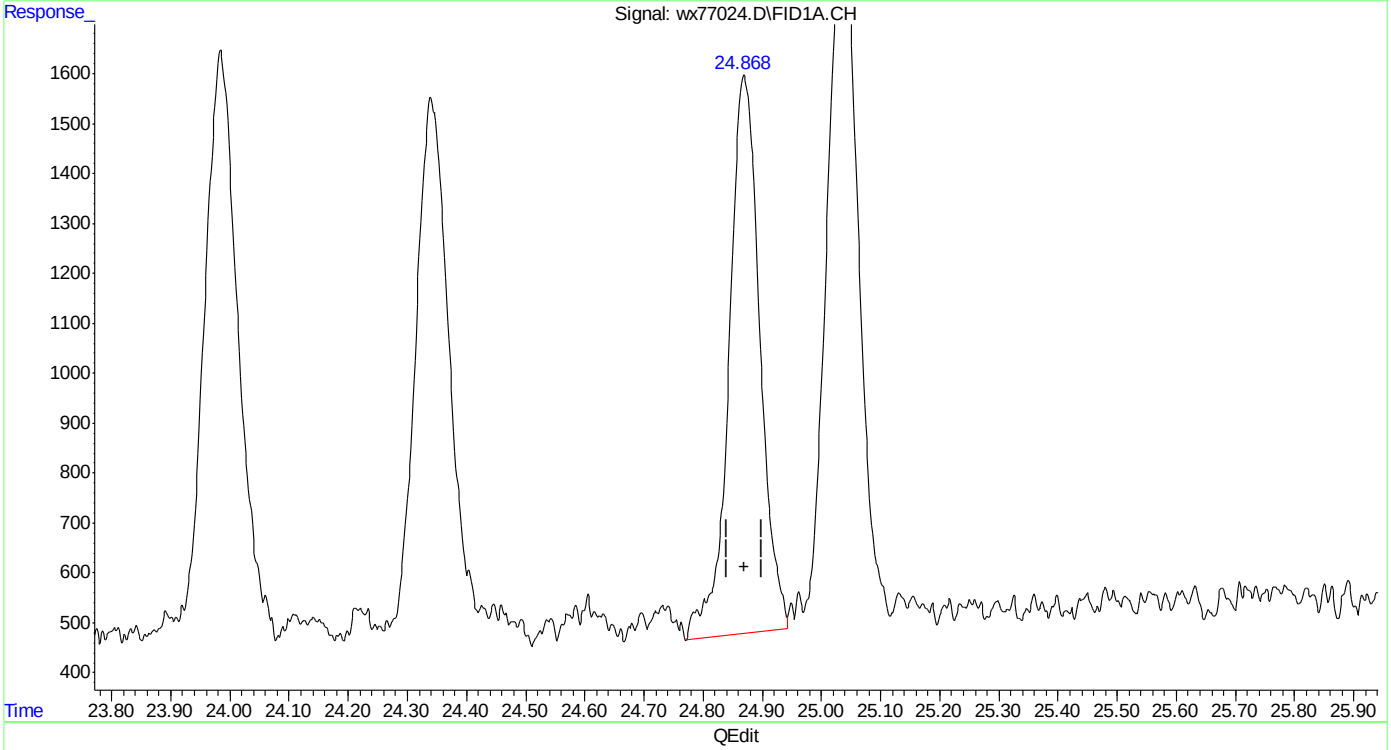
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(18) 1,2,4-trimethylbenzene
24.869min 1.130 ppb
response 40496

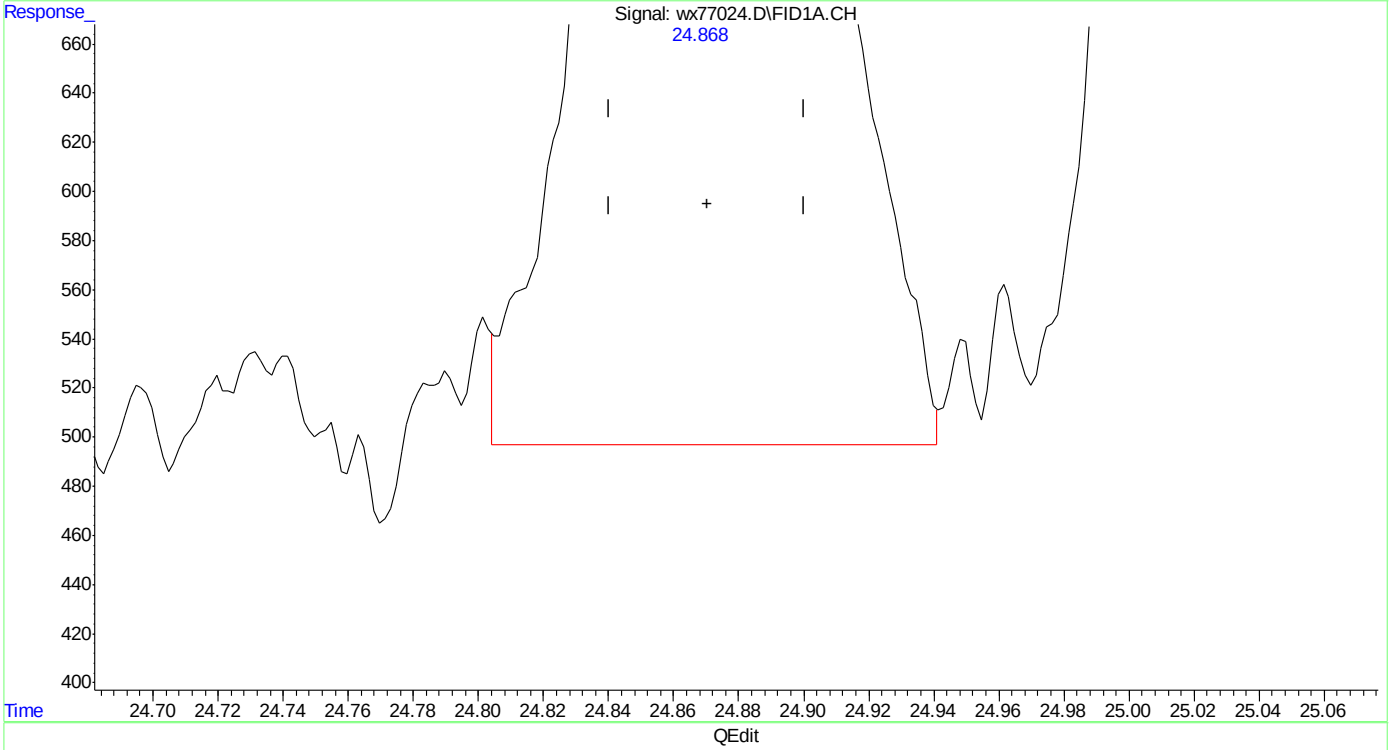
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(18) 1,2,4-trimethylbenzene

24.868min 1.063 ppb m

response 38112

(+) = Expected Retention Time

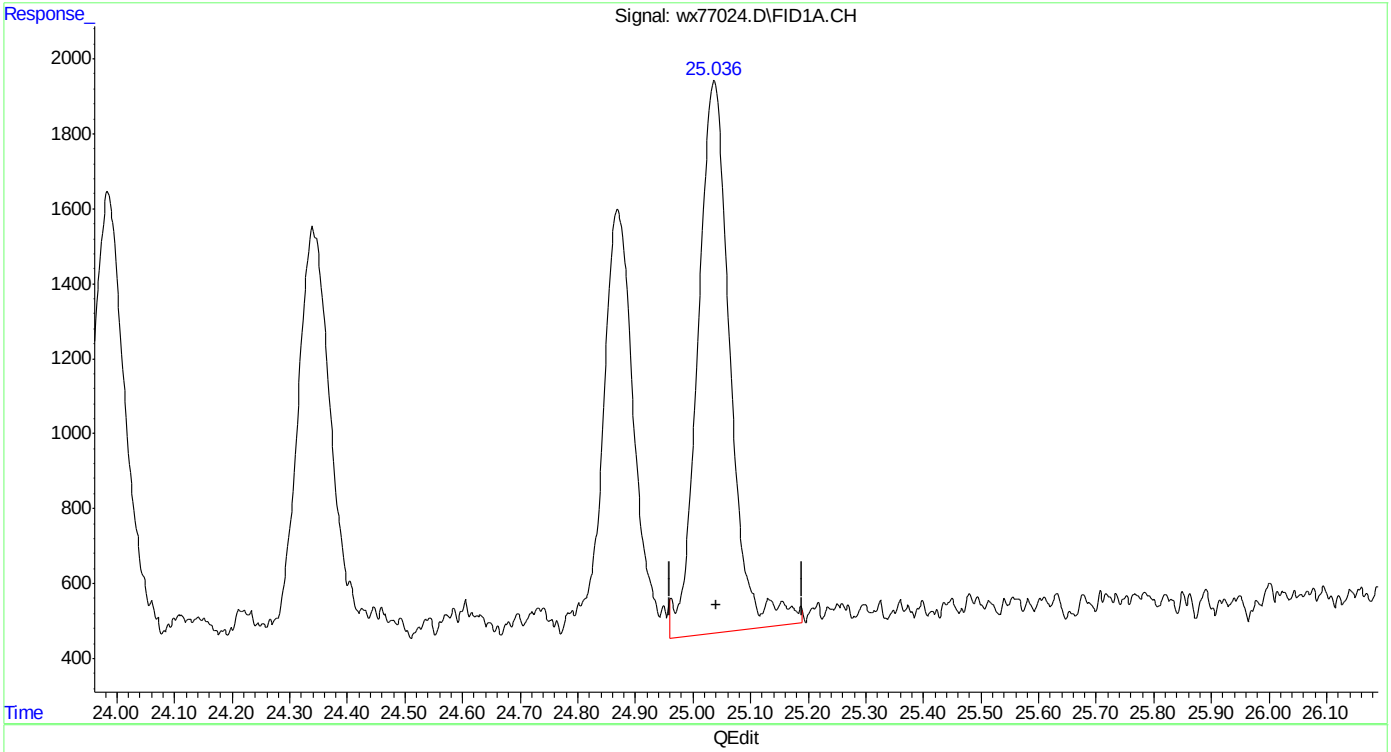
wx160602vphmaster.M Thu Jun 02 13:15:06 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 1.486 ppb
response 57701

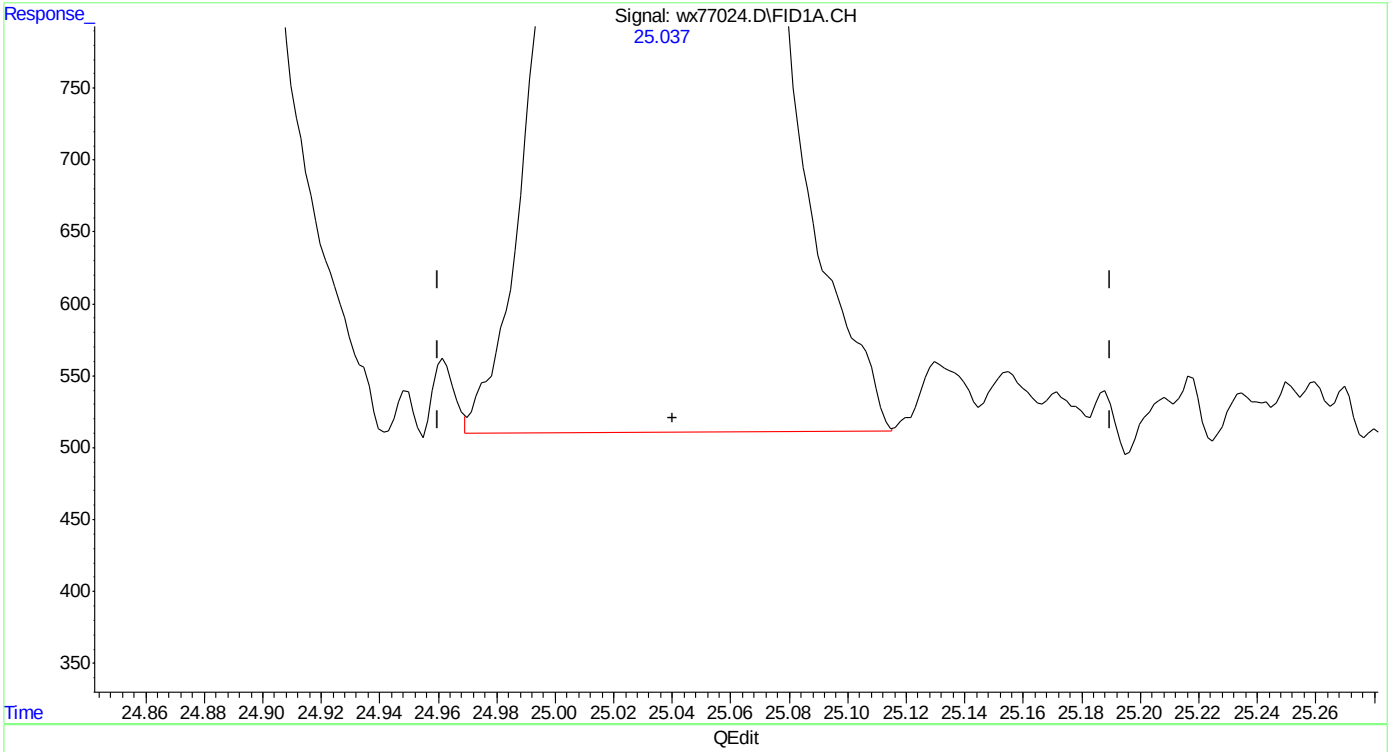
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:15:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(19) Butylcyclohexane (h)
25.040min 1.319 ppb m
response 51203

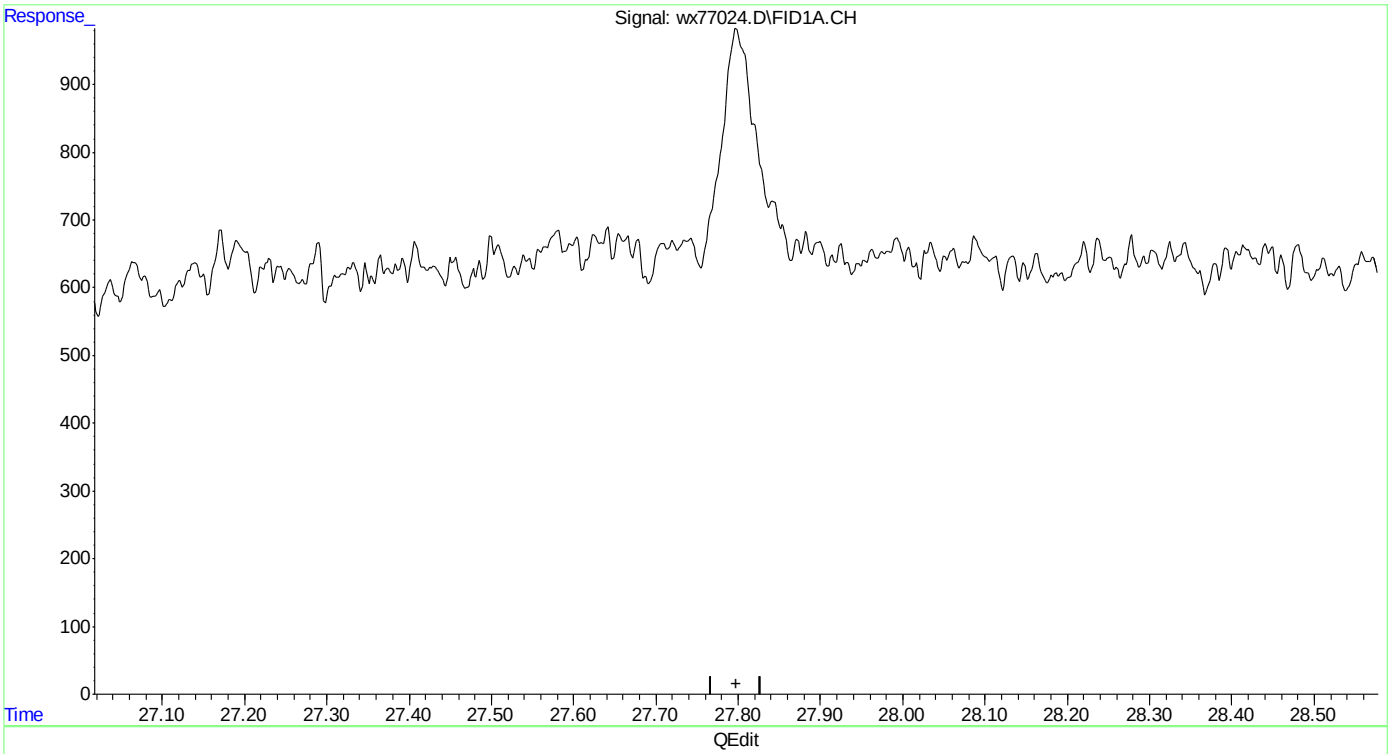
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.798min 0.000 ppb

response 0

(+) = Expected Retention Time

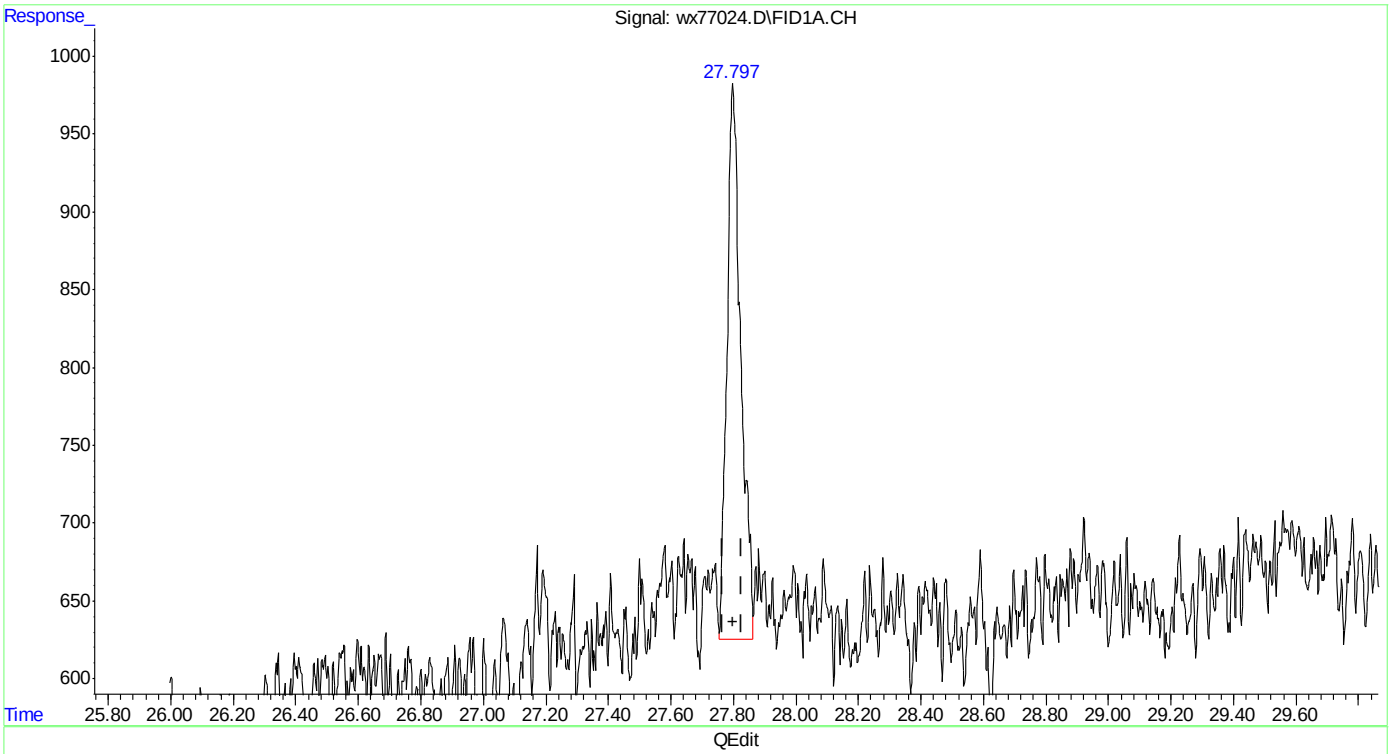
wx160602vphmaster.M Thu Jun 02 13:15:21 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(20) naphthalene

27.797min 0.595 ppb m

response 10975

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:15:27 2016

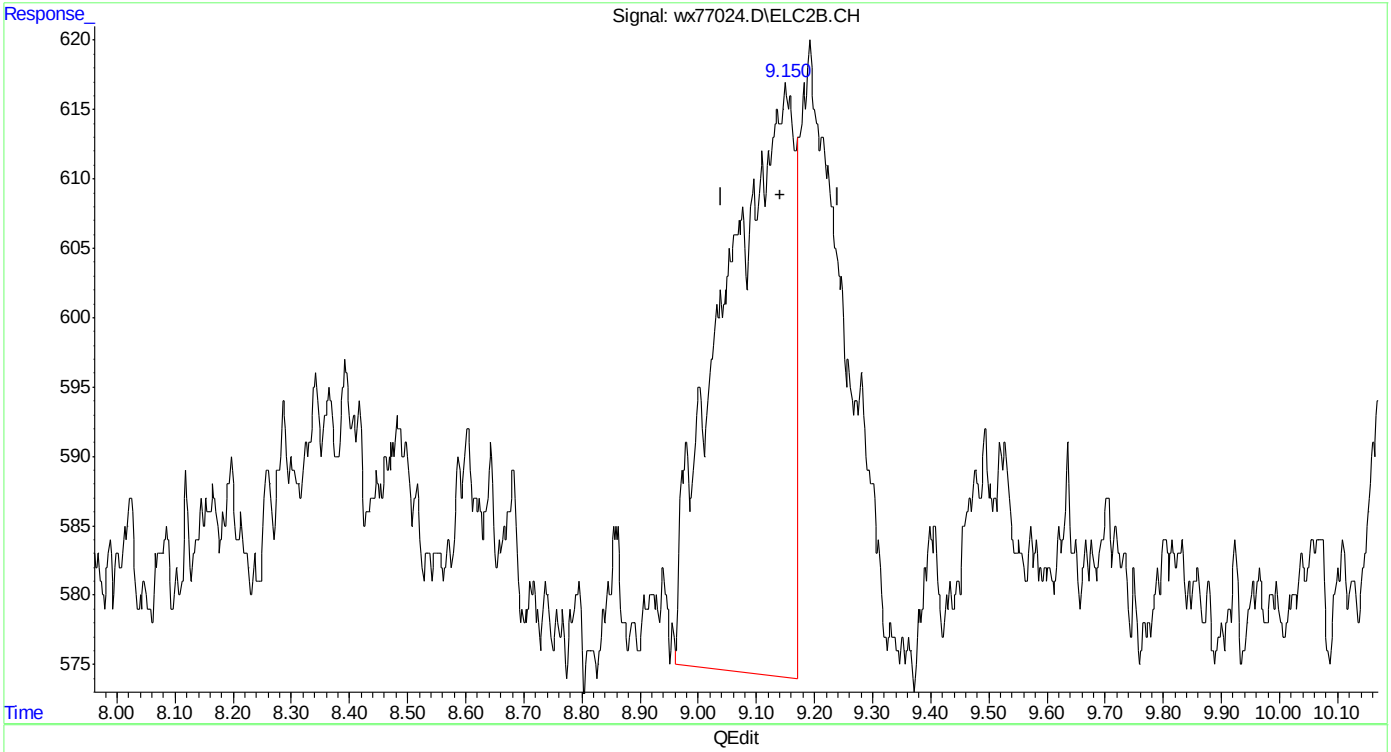
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.153min 0.768 ppb
response 3475

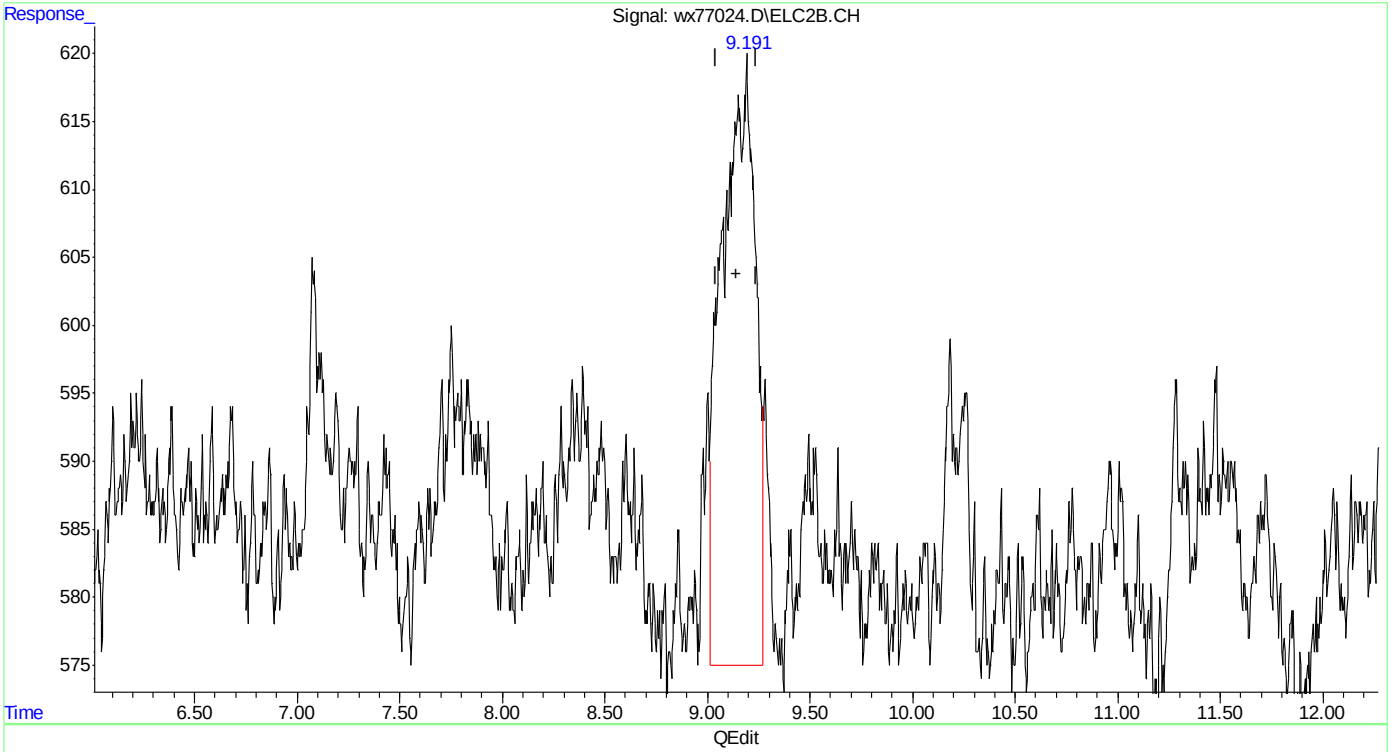
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:15:33 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(23) mtbe #2
9.191min 1.108 ppb m
response 5014

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:24 2016

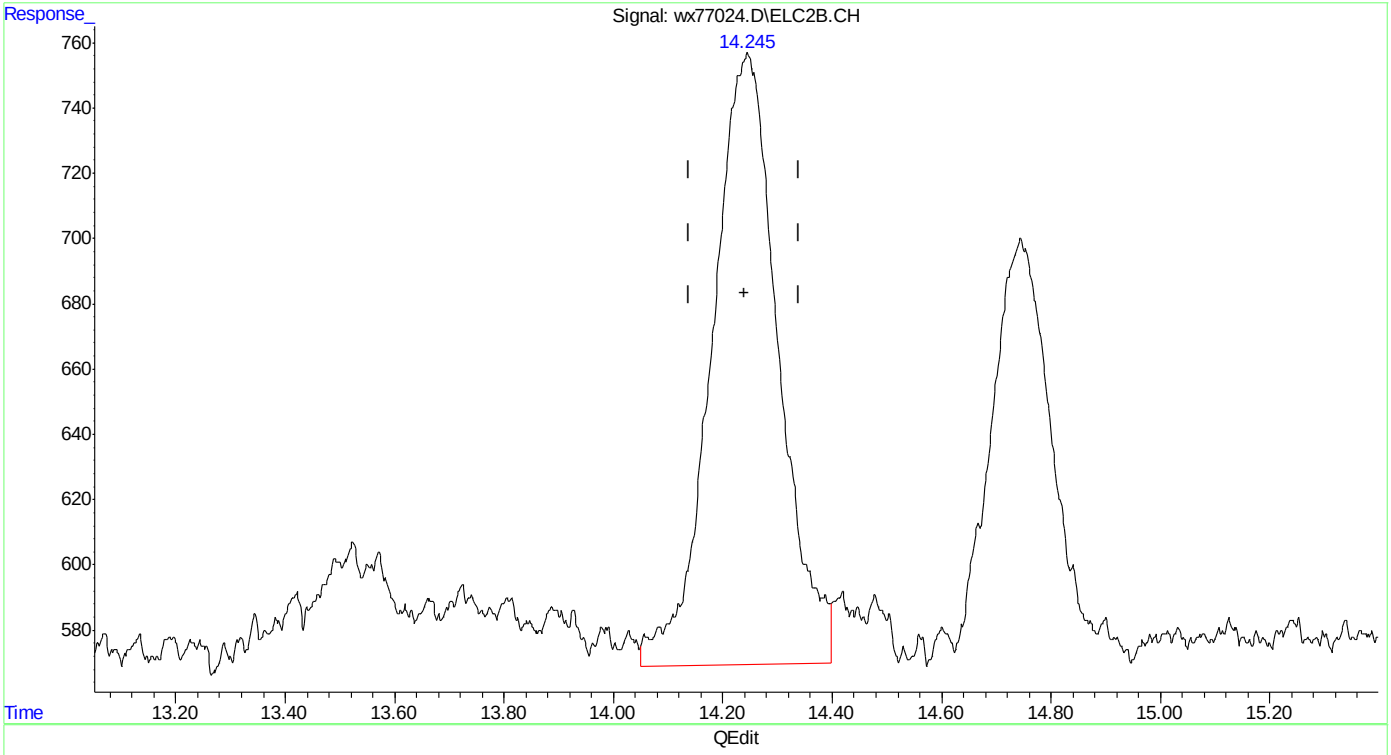
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.245min 1.107 ppb
response 15821

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:30 2016

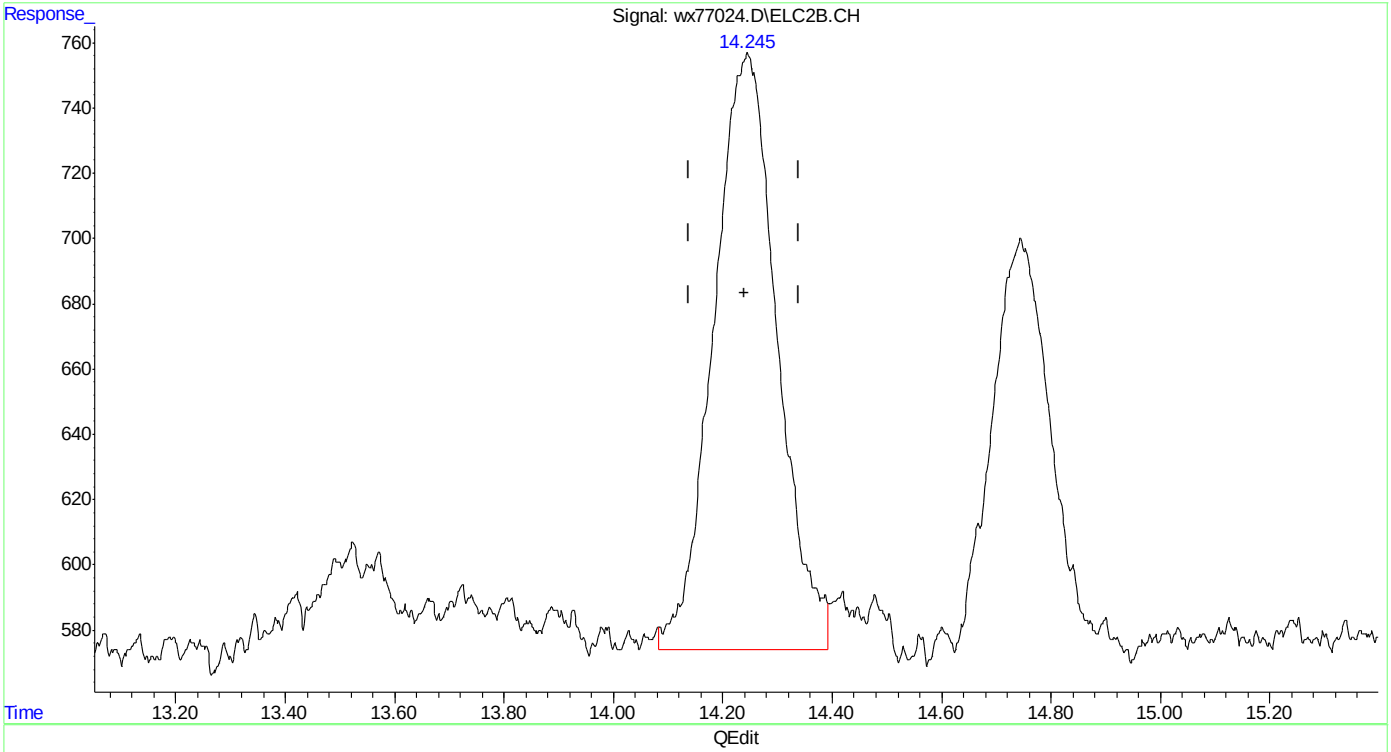
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) benzene #2
14.245min 1.032 ppb m
response 14757

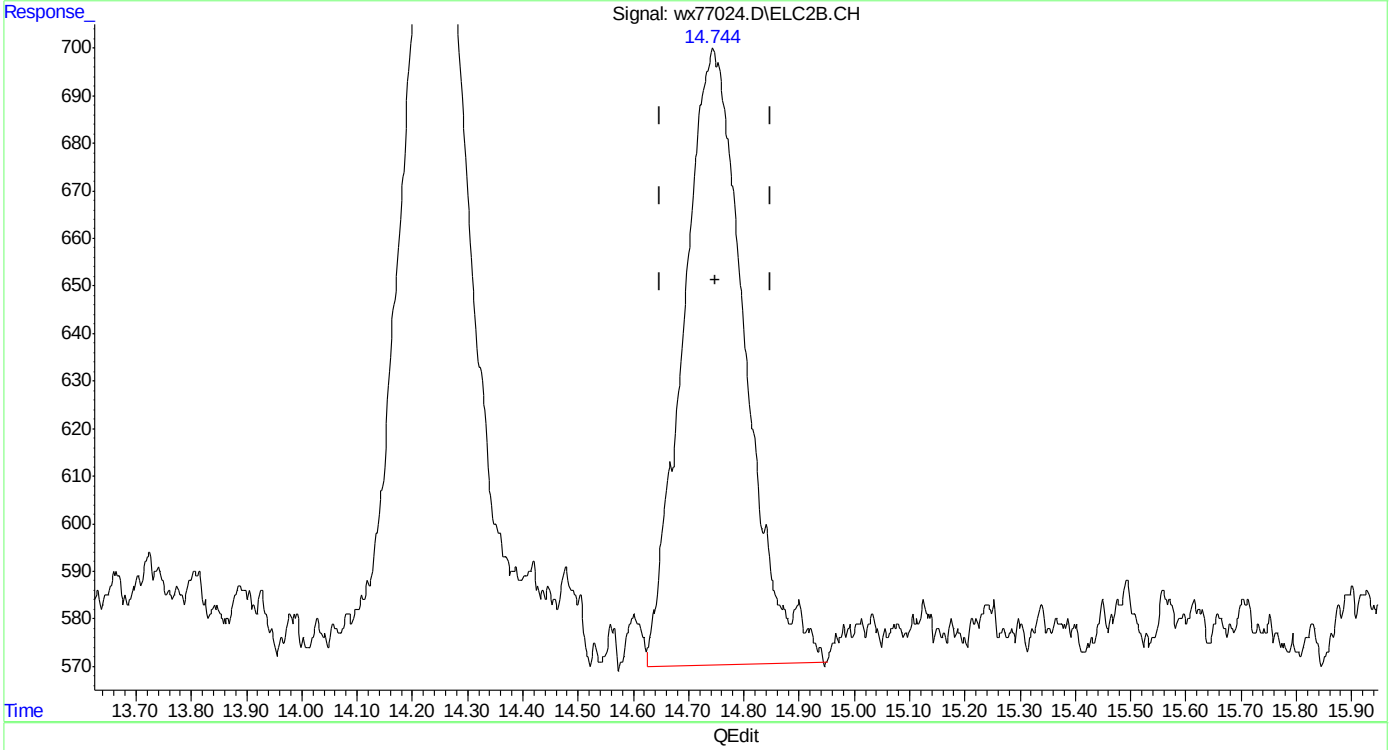
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:36 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(25) fluorobenzene #2 (s)

14.746min 1.101 ppb

response 9955

(+) = Expected Retention Time

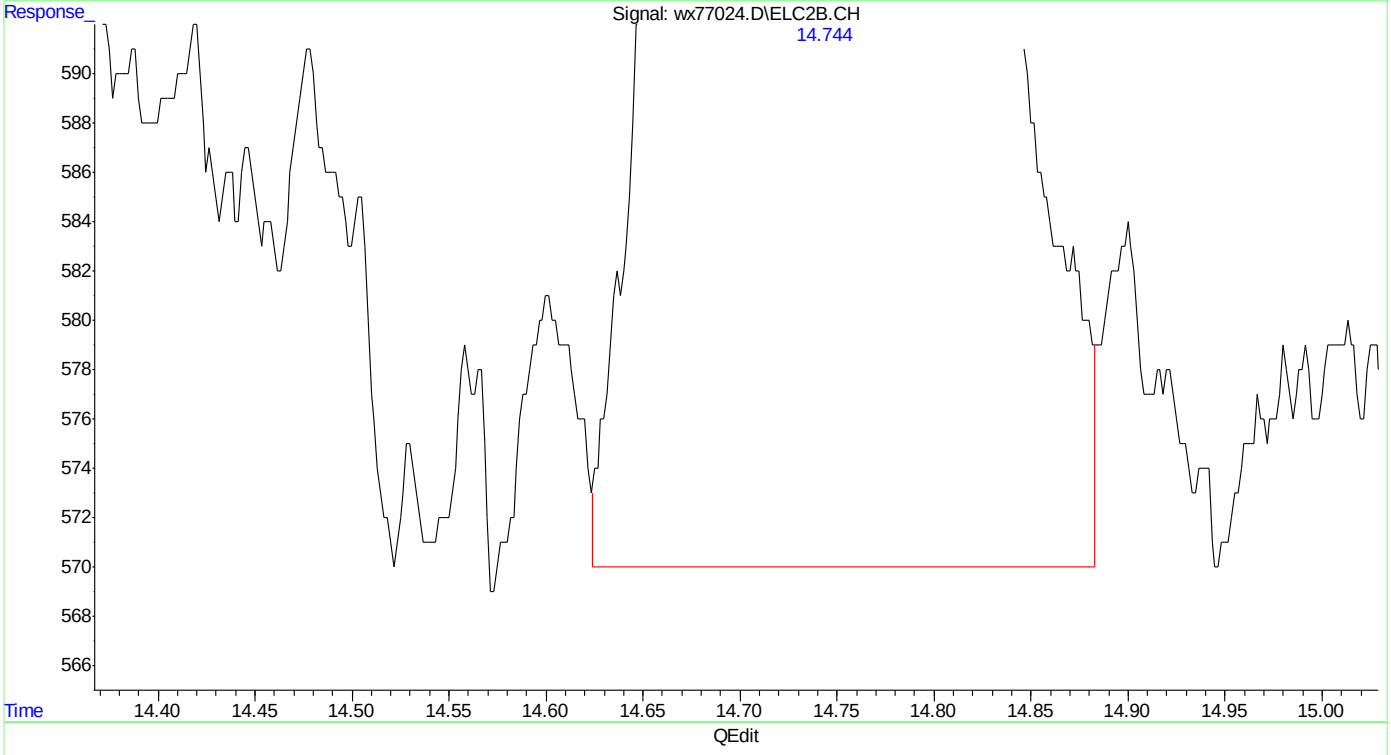
wx160602vphmaster.M Thu Jun 02 13:16:41 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(25) fluorobenzene #2 (s)
14.744min 1.087 ppb m
response 9835

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:16:50 2016

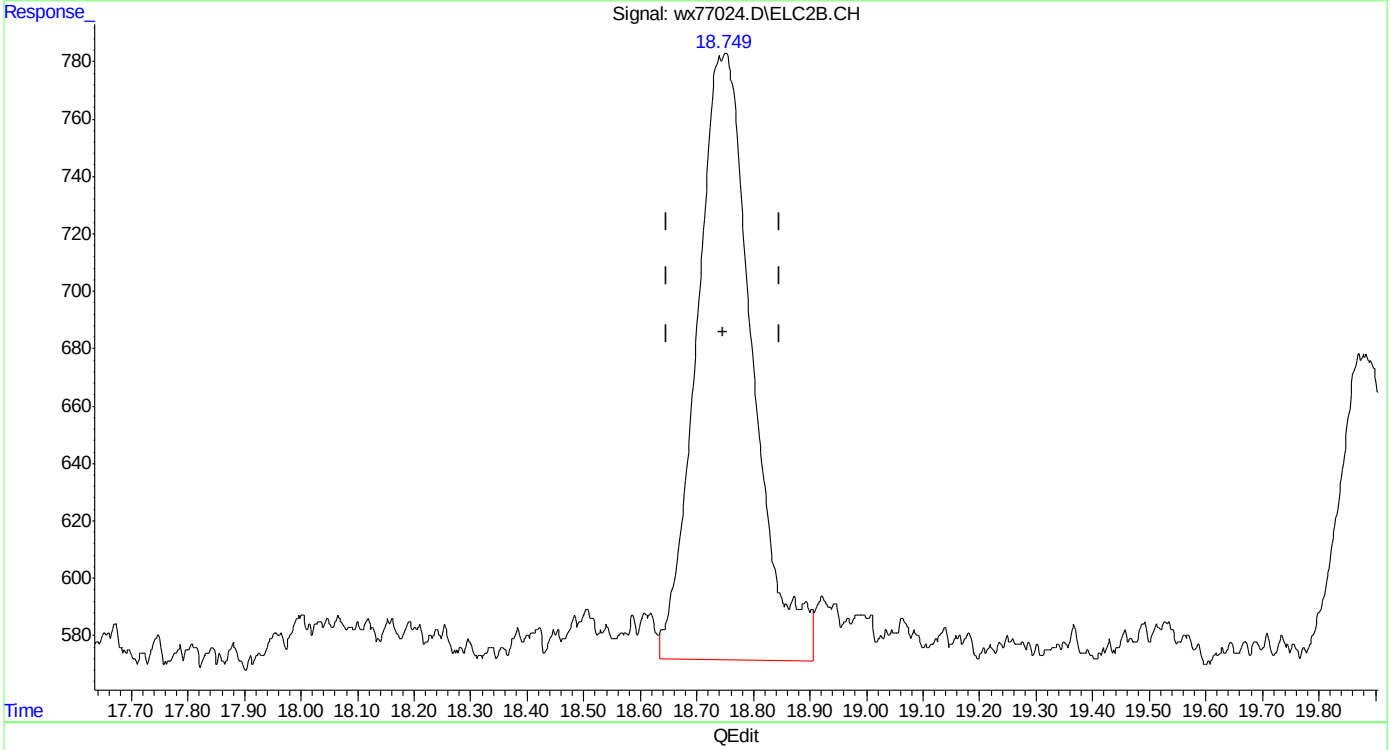
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2

18.748min 1.109 ppb

response 14419

(+) = Expected Retention Time

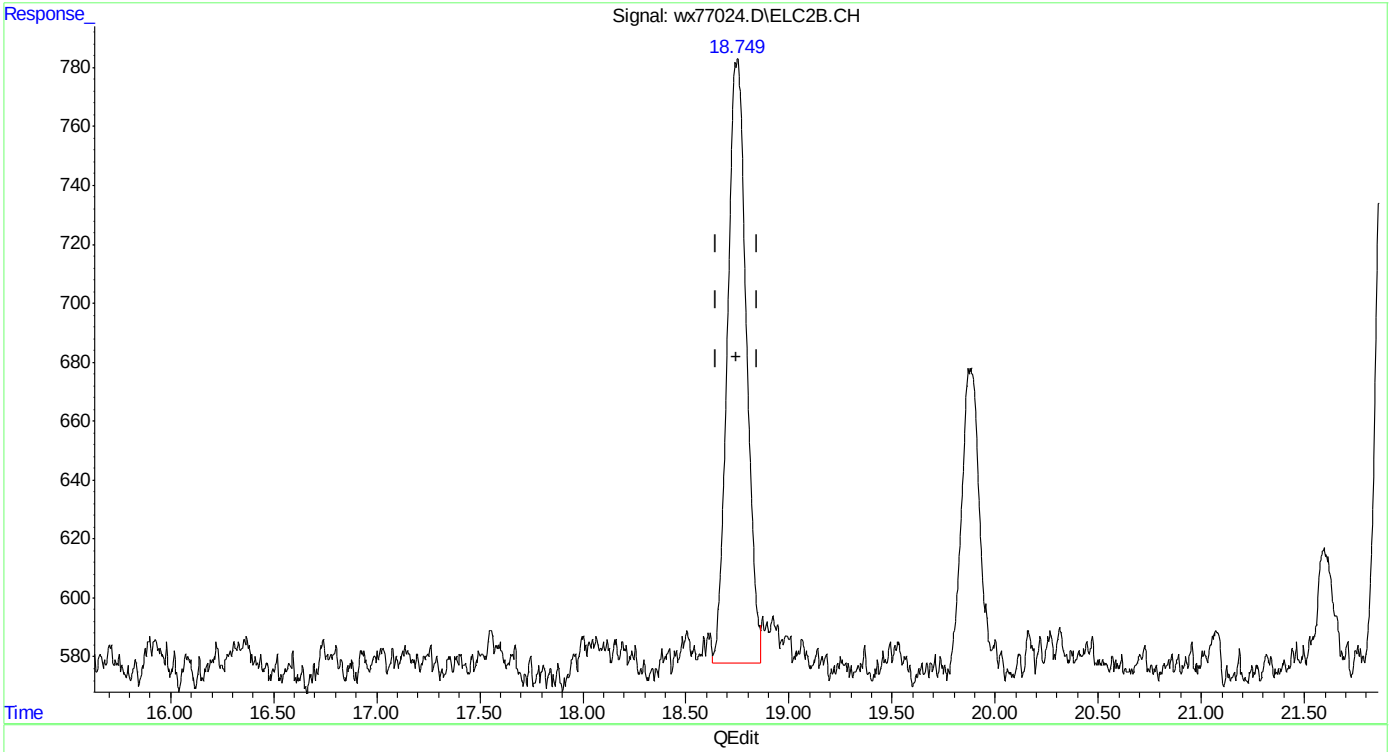
wx160602vphmaster.M Thu Jun 02 13:16:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(26) toluene #2
18.749min 1.002 ppb m
response 13020

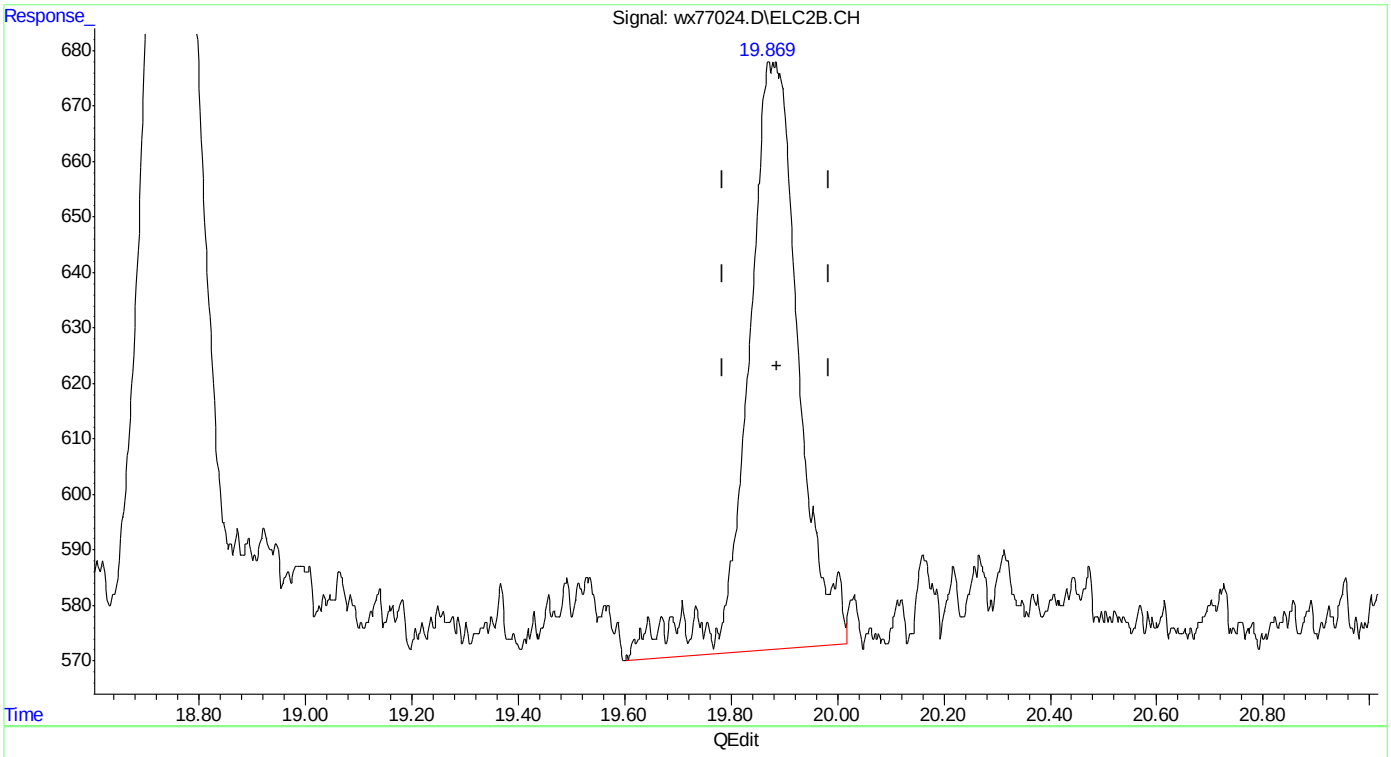
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.878min 1.301 ppb
response 7065

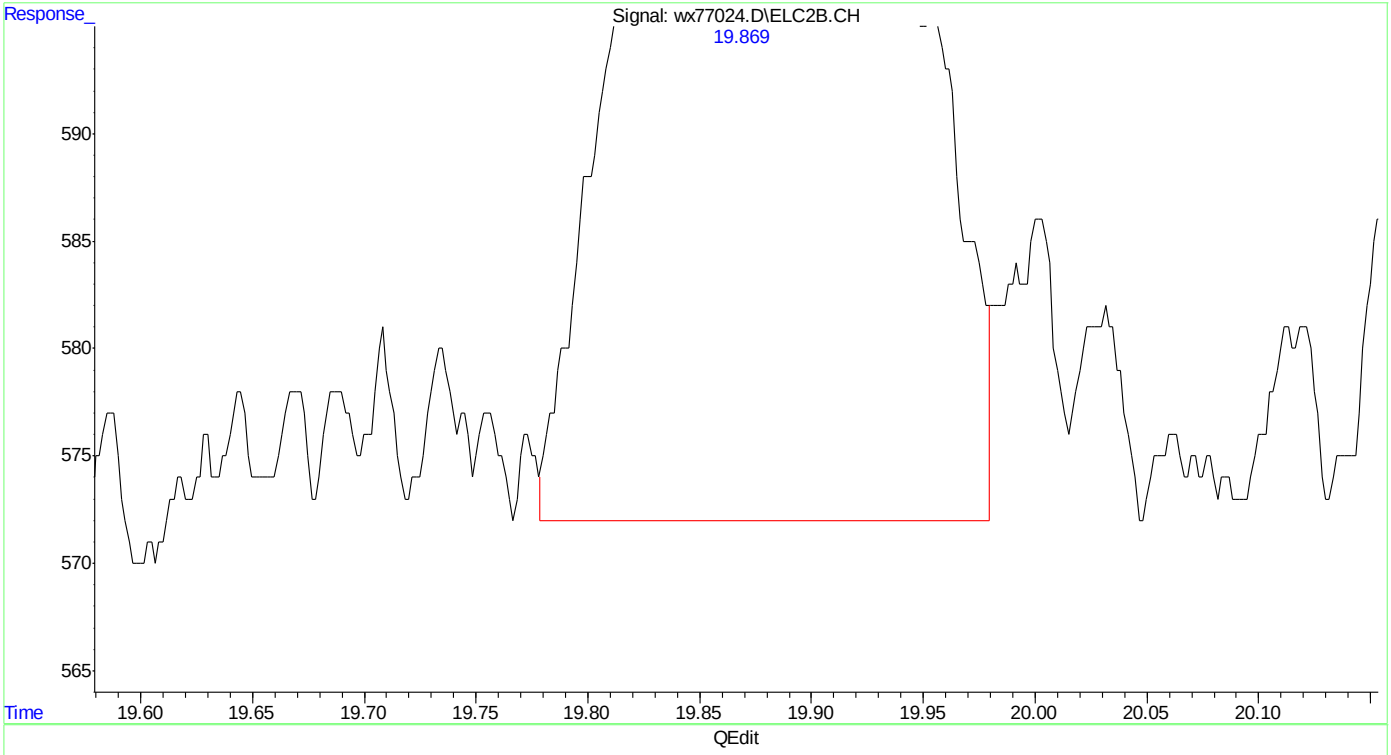
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:14 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(27) 2,3,4-trifluorotoluene #2 (s)
19.869min 1.187 ppb m
response 6444

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:21 2016

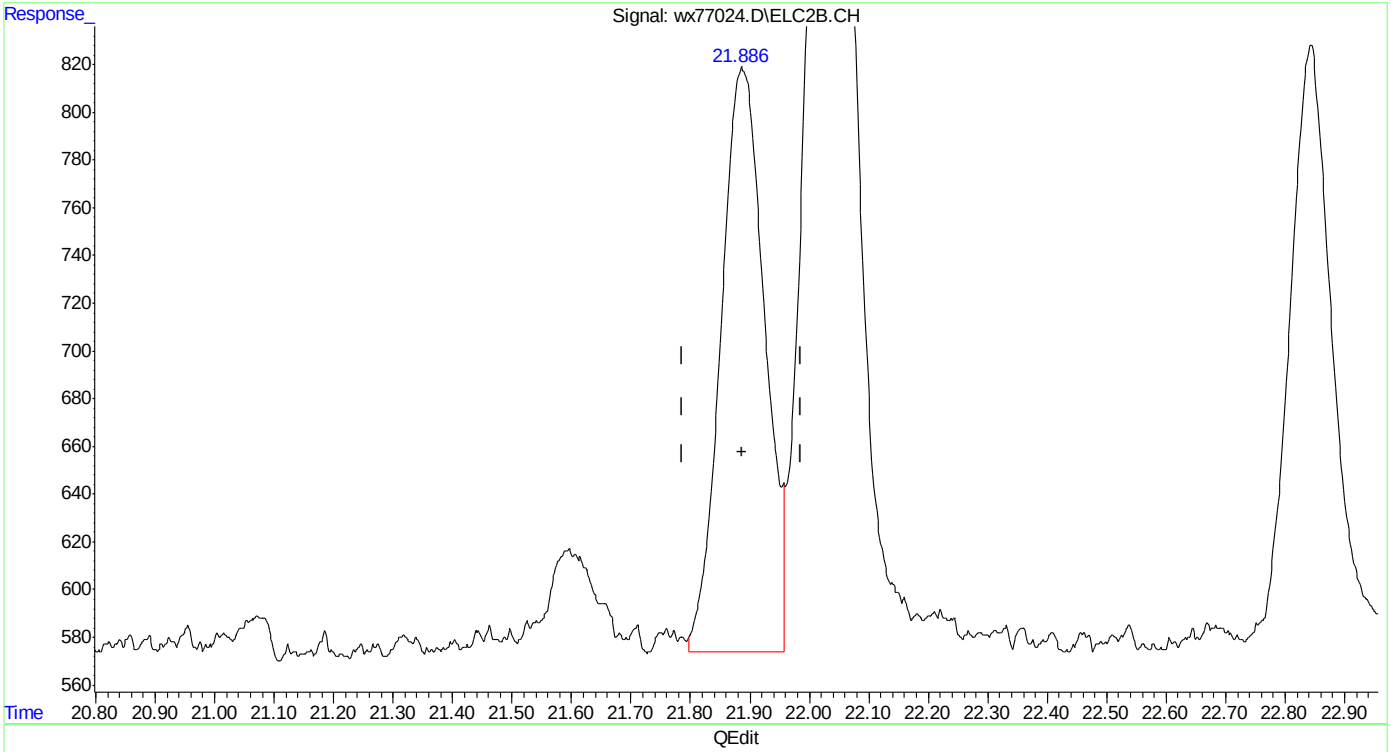
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(28) ethylbenzene #2
21.888min 1.078 ppb
response 12438

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:27 2016

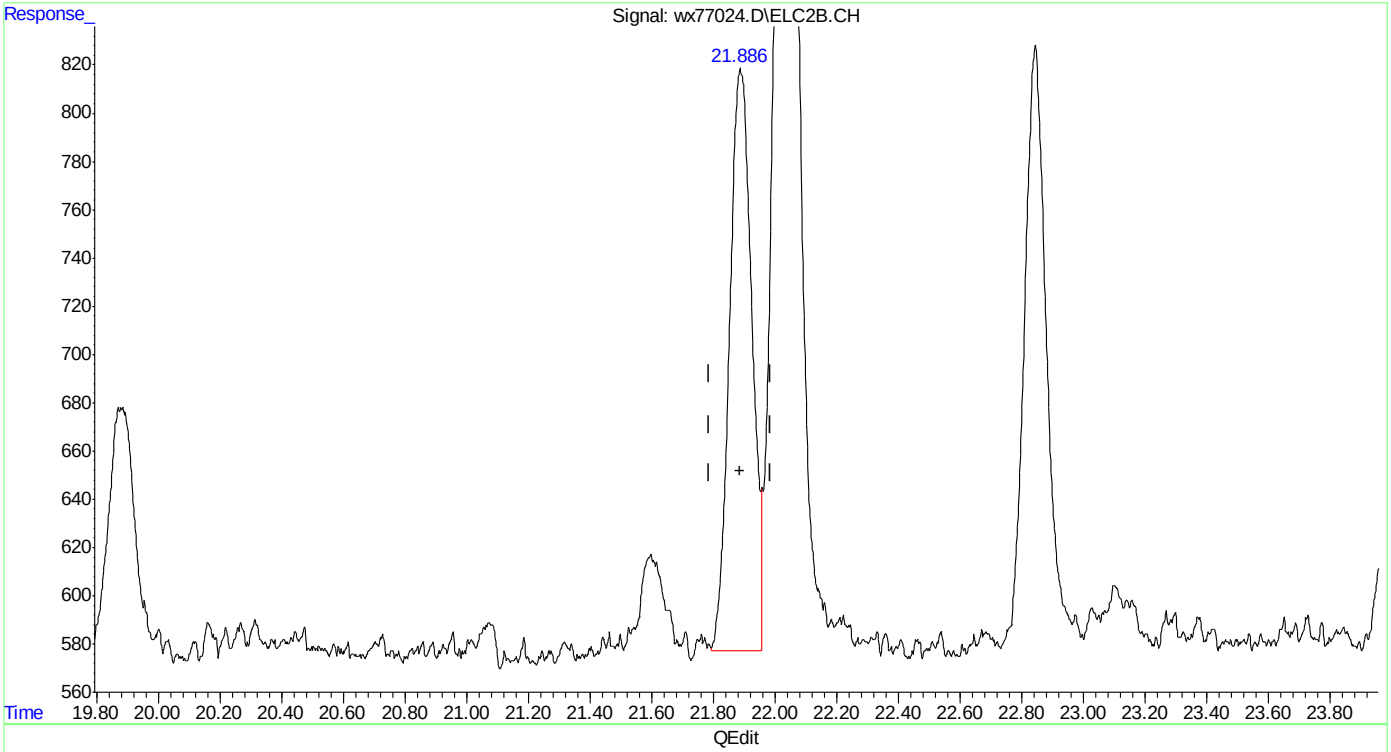
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(28) ethylbenzene #2
21.886min 1.051 ppb m
response 12133

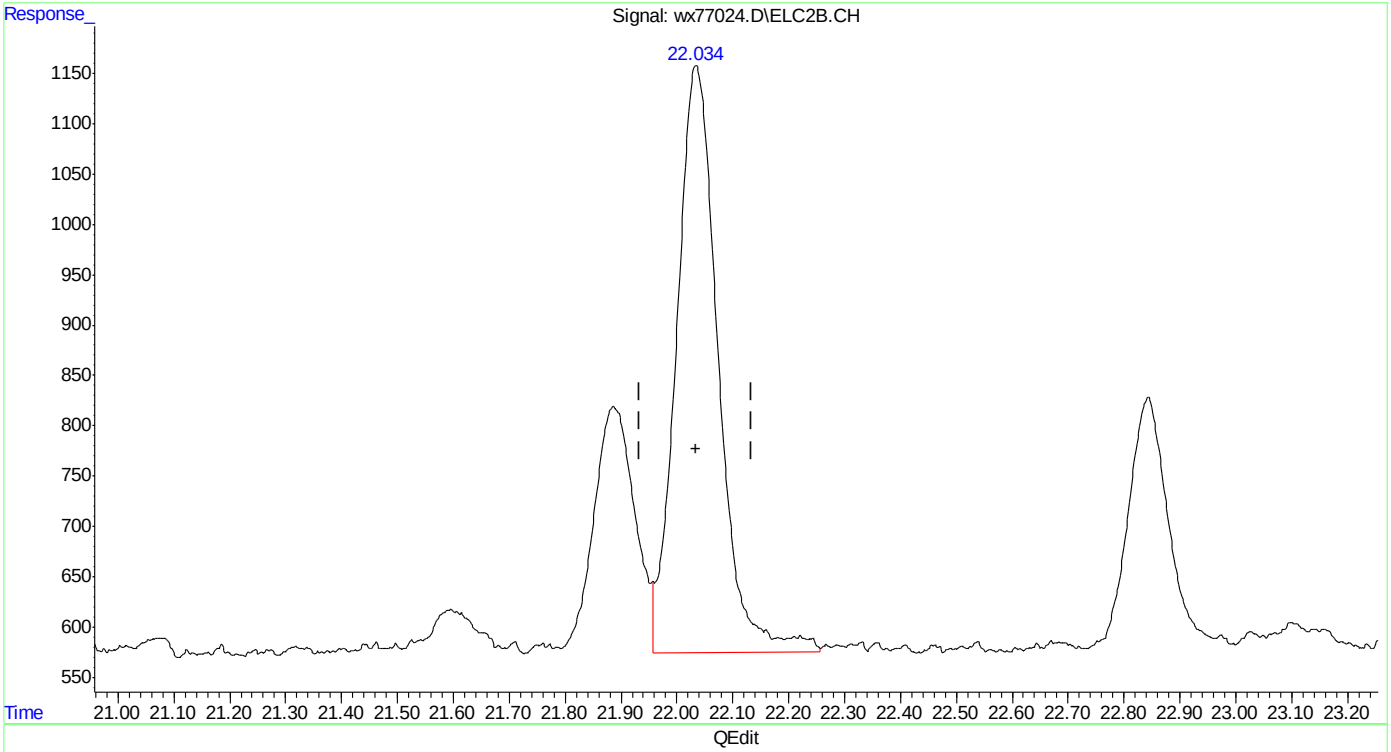
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:34 2016 Page: 1

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(29) m,p-xylene #2

22.035min 2.159 ppb

response 30435

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:17:38 2016

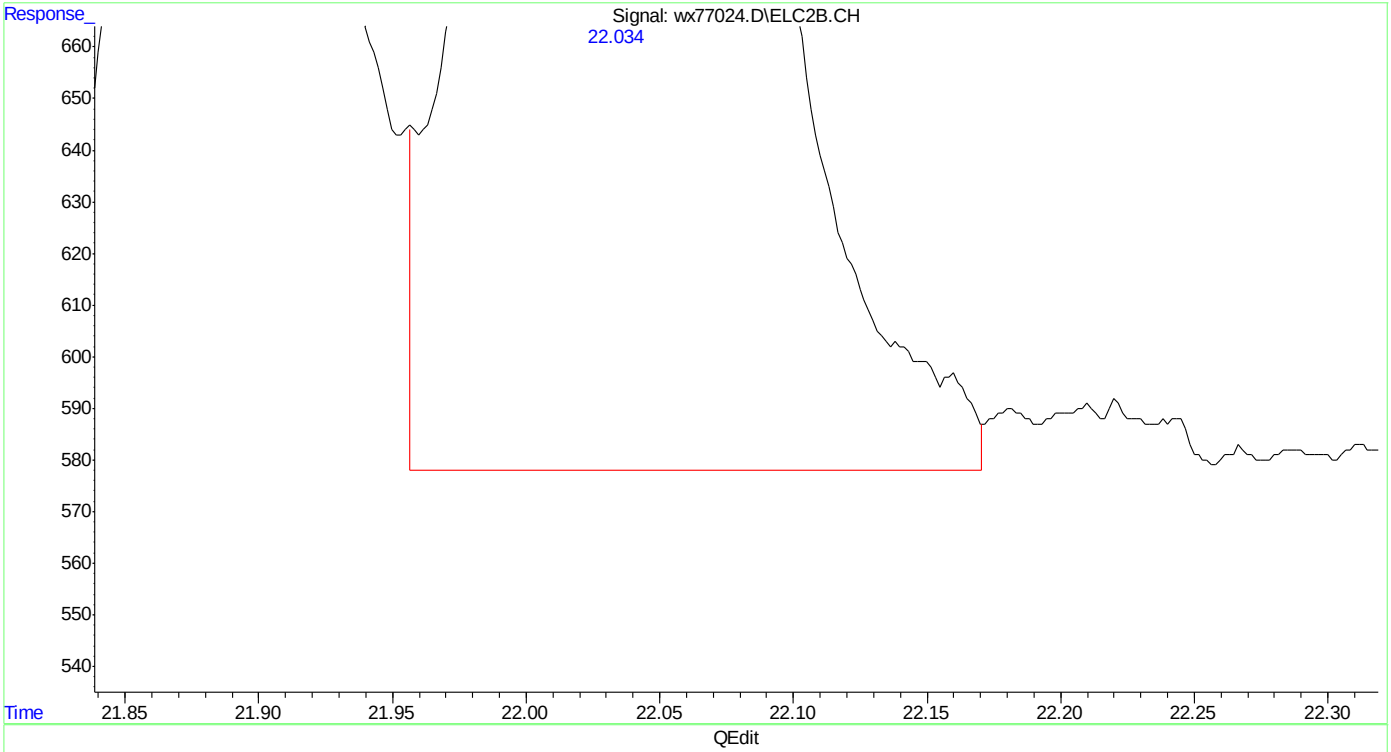
Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(29) m,p-xylene #2
22.034min 2.080 ppb m
response 29316

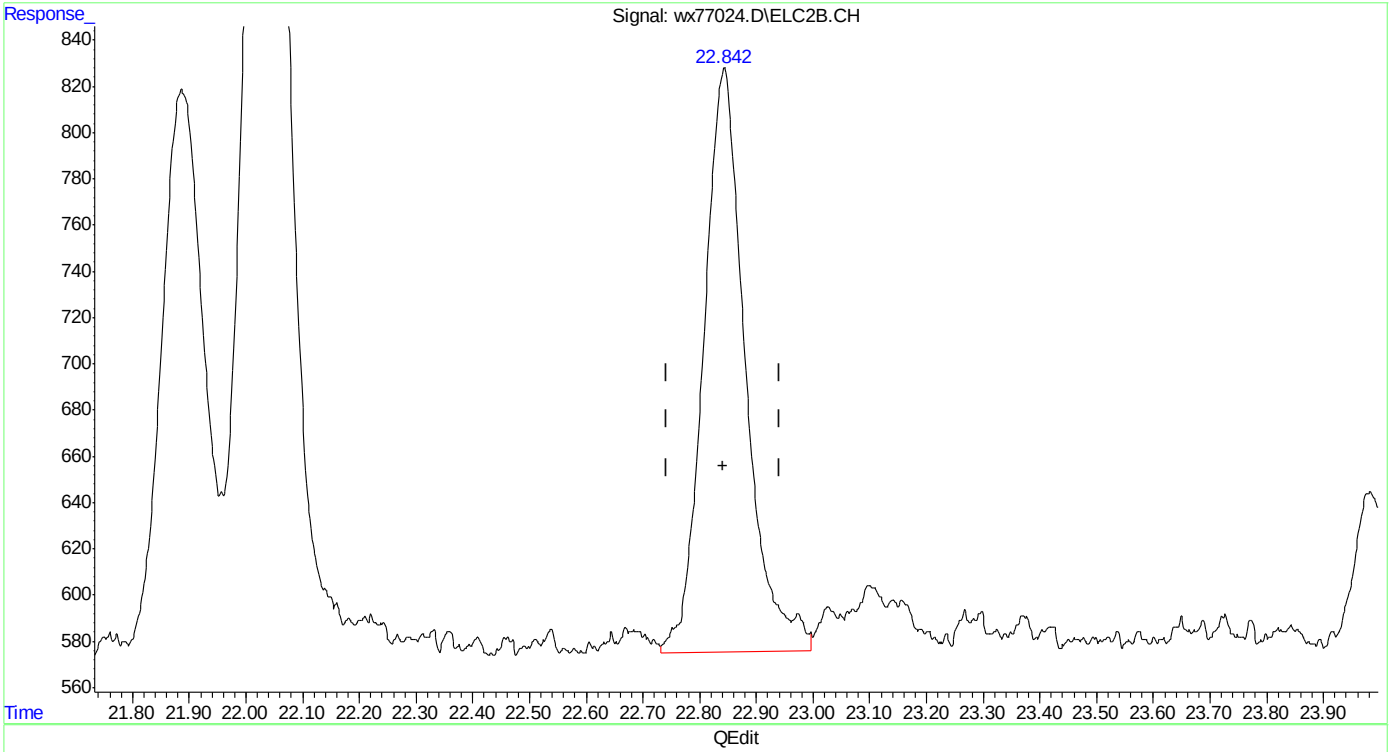
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:46 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2
22.843min 1.108 ppb
response 12935

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:17:50 2016

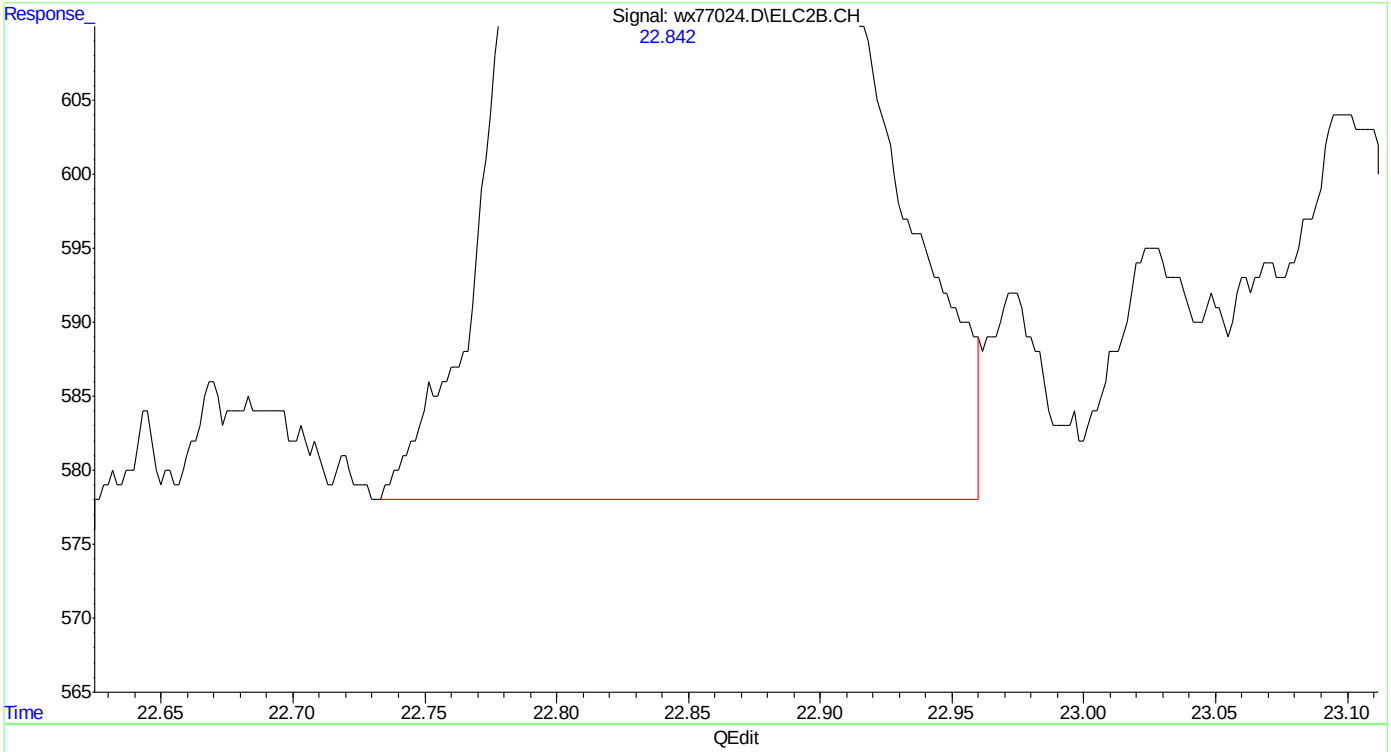
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(30) o-xylene #2

22.842min 1.058 ppb m

response 12350

(+) = Expected Retention Time

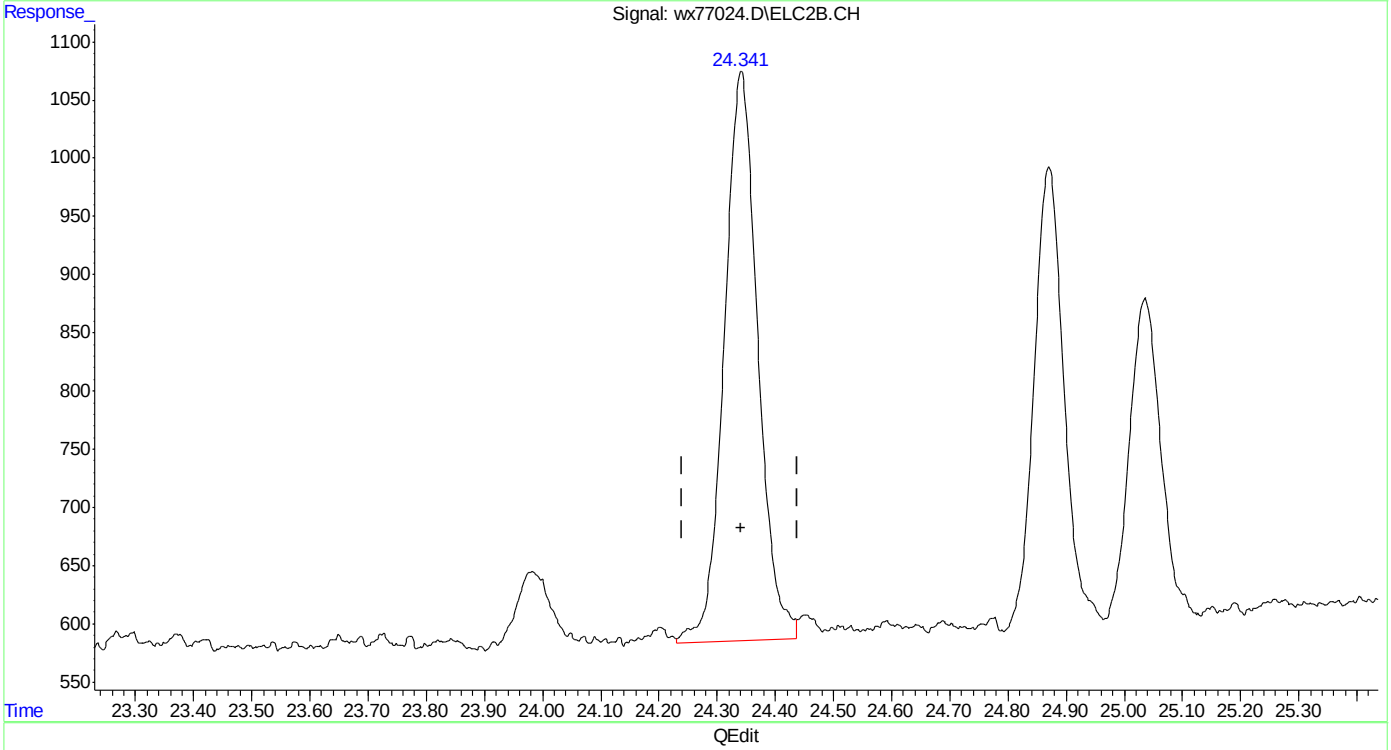
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)
24.342min 1.133 ppb
response 19632

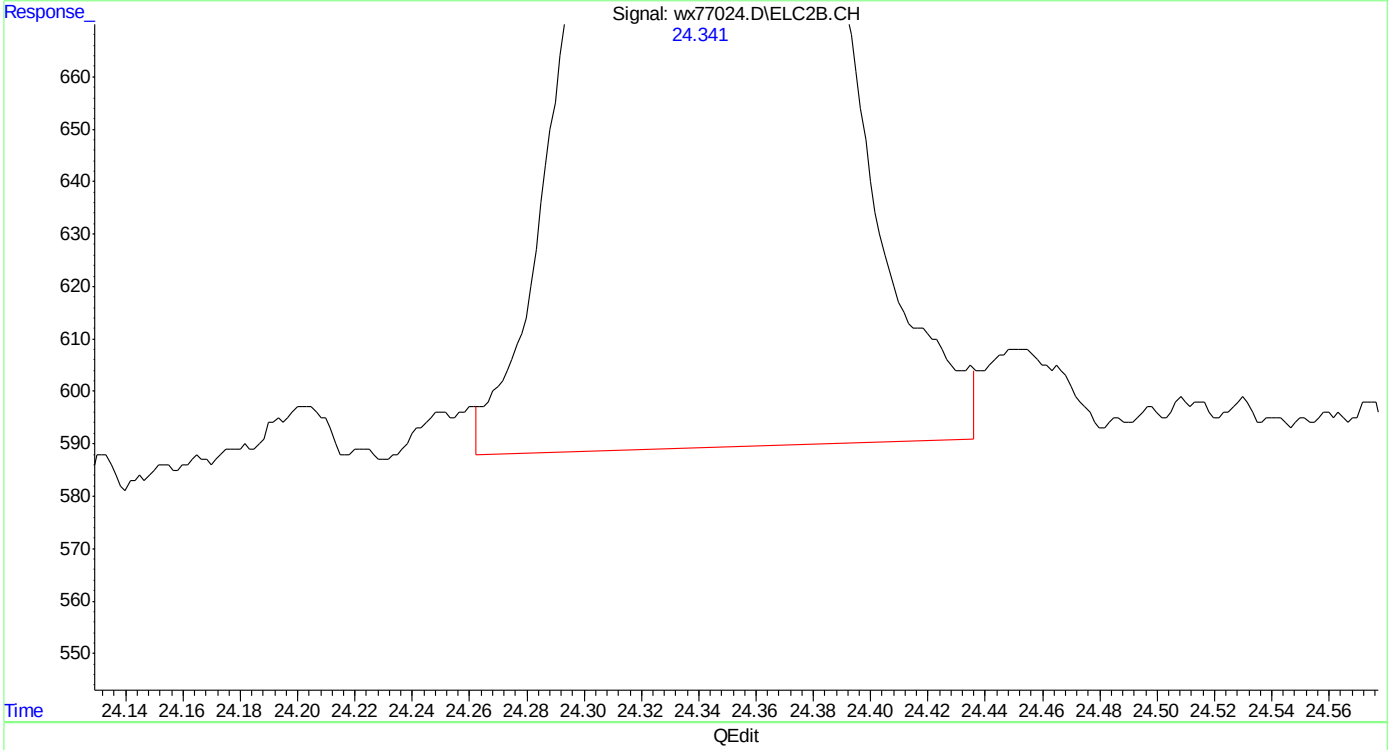
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:18:00 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(31) 1,3,5-trimethylbenzene #2 (t)

24.341min 1.099 ppb m

response 19048

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:18:05 2016

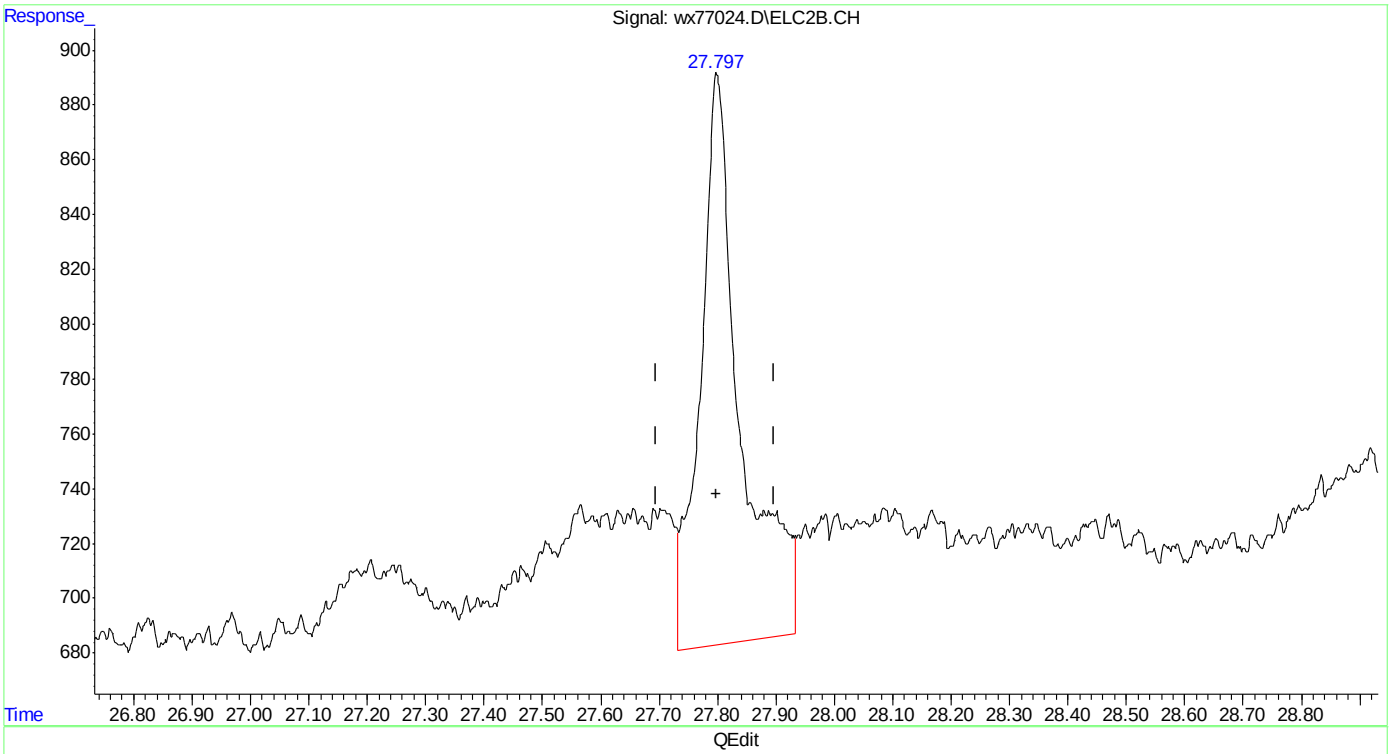
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.800min 1.046 ppb
response 9977

(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:18:11 2016

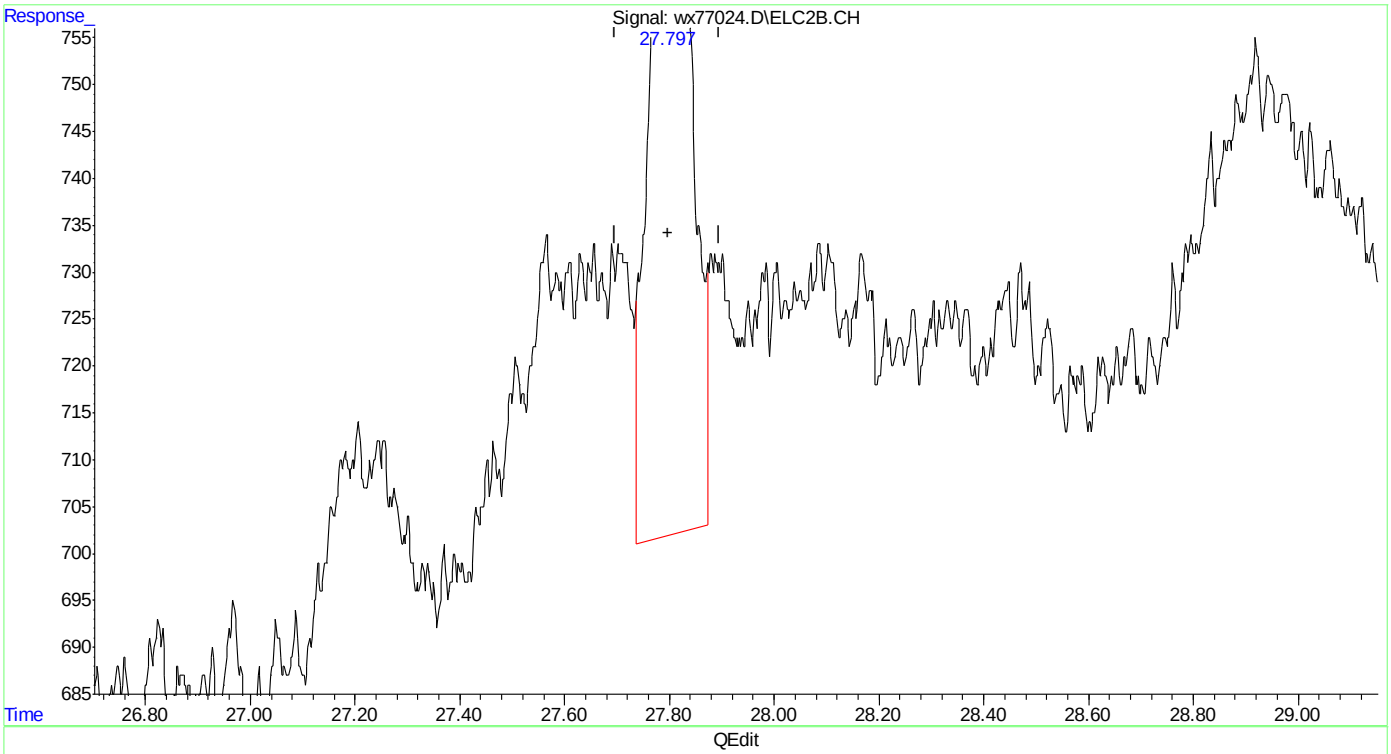
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 12:29 pm
Operator : tonyf
Sample : ic3782-1,gv16403
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 9 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(33) naphthalene #2
27.797min 0.717 ppb m
response 6835

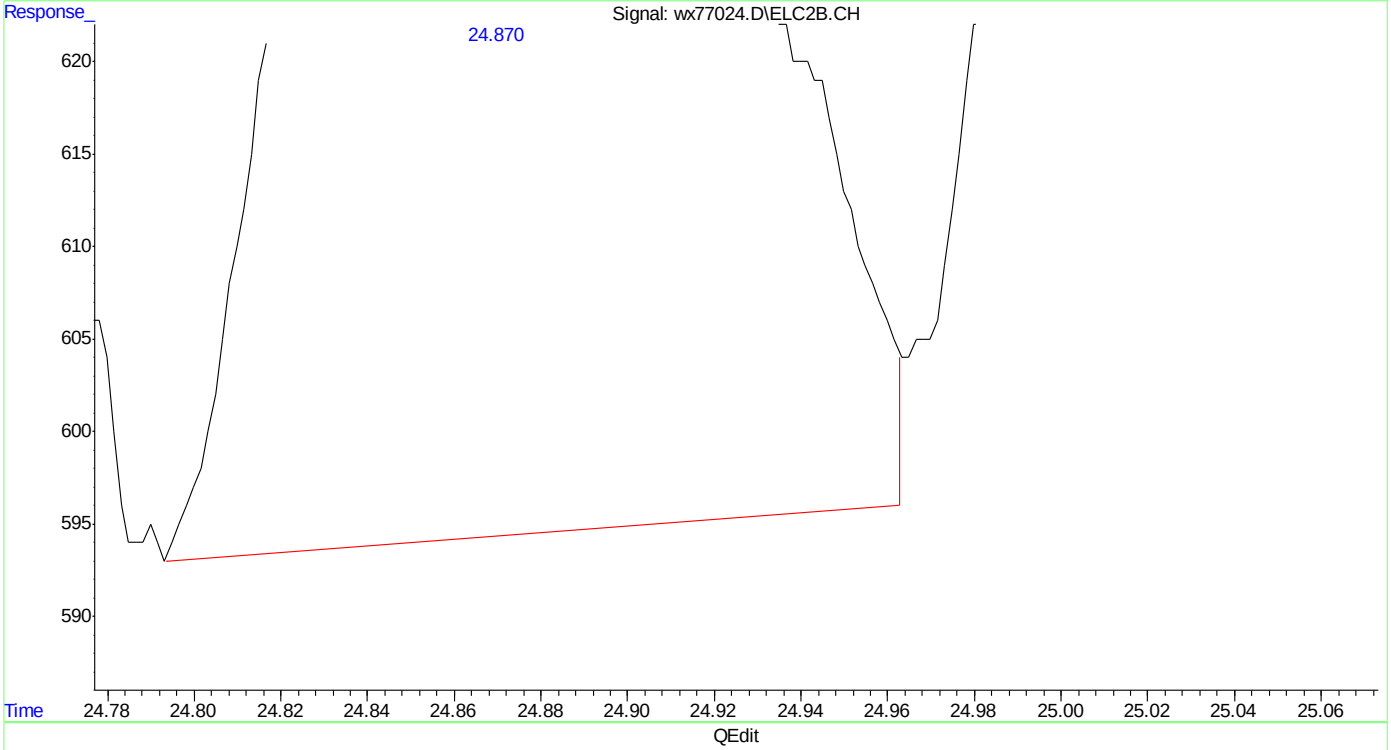
(+) = Expected Retention Time
wx160602vphmaster.M Thu Jun 02 13:18:32 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77024.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016  12:29 pm
Operator  : tonyf
Sample    : ic3782-1,gv16403
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 9   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:10:48 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vphmaster.M
Quant Title  : vph - master
QLast Update : Thu Jun 02 13:10:39 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(32) 1,2,4-trimethylbenzene #2

24.870min 1.117 ppb m

response 14313

(+) = Expected Retention Time

wx160602vphmaster.M Thu Jun 02 13:19:06 2016 Page: 1

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/08/16 16:44

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 1:06 pm
Operator : tonyf
Sample : icv3782-50,gv16404
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.743	1377988	48.762 ppb
Spiked Amount 50.000		Recovery =	97.52%
6) s 2,3,4-trifluorotoluene	19.881	1093122	47.702 ppb
Spiked Amount 50.000		Recovery =	95.40%
16) s fluorobenzene #2	14.742	435459	47.761 ppb
Spiked Amount 50.000		Recovery =	95.52%
18) s 2,3,4-trifluorotoluen...	19.881	251756	46.095 ppb
Spiked Amount 50.000		Recovery =	92.19%
Target Compounds			
1) h rt5.5-7	6.100	1038789	43.900 ppb
2) h rt7/10	8.370	1351506	57.115 ppb
3) h rt10/13	13.510	1035513	43.761 ppb
8) h rt20/25	21.600	1472906	41.095 ppb
10) h Decane	23.990	1429444	39.882 ppb
11) h Butylcyclohexane	25.040	1581154	44.115 ppb
14) mtbe #2	9.144	211112	48.388 ppb
15) benzene #2	14.237	678959	47.795 ppb
17) toluene #2	18.746	617957	48.035 ppb
19) ethylbenzene #2	21.886	547240	47.807 ppb
20) m,p-xylene #2	22.034	1326976	96.036 ppb
21) o-xylene #2	22.842	560328	48.244 ppb
22) t 1,3,5-trimethylbenzen...	24.341	822121	48.233 ppb
23) 1,2,4-trimethylbenzen...	24.870	604994	47.844 ppb
24) naphthalene #2	27.798	495364	55.611 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	604244	47.804 ppb

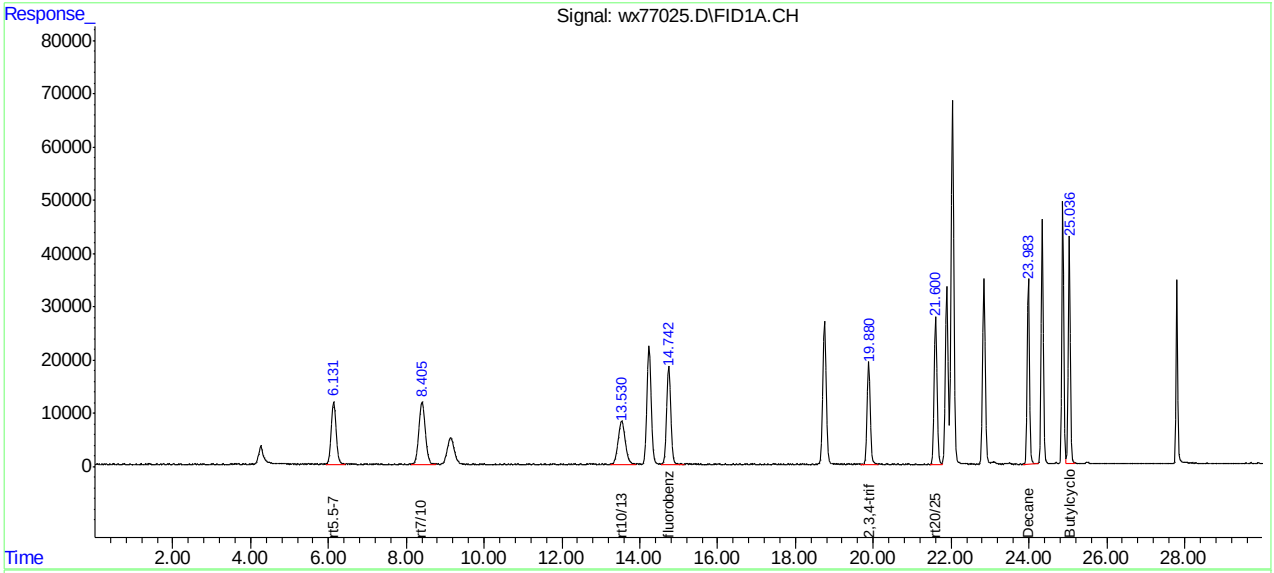
(f)=RT Delta > 1/2 Window (m)=manual int.

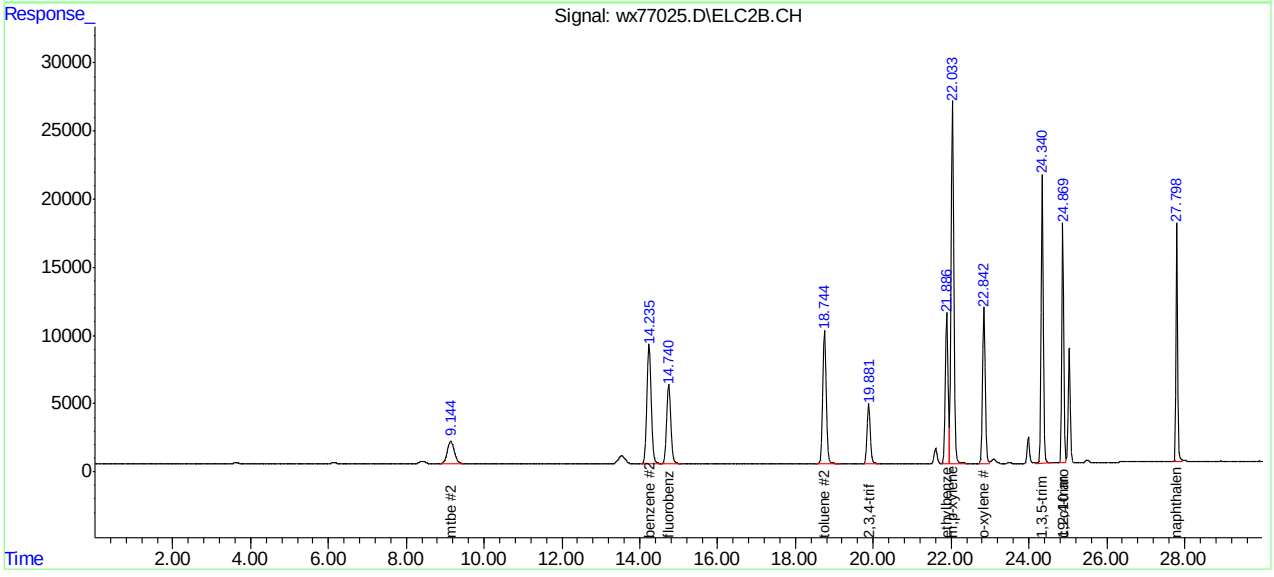
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 02 Jun 2016 1:06 pm
Operator : tonyf
Sample : icv3782-50,gv16404
Misc : gc26310,gwx3782,,,,5,1
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:47:11 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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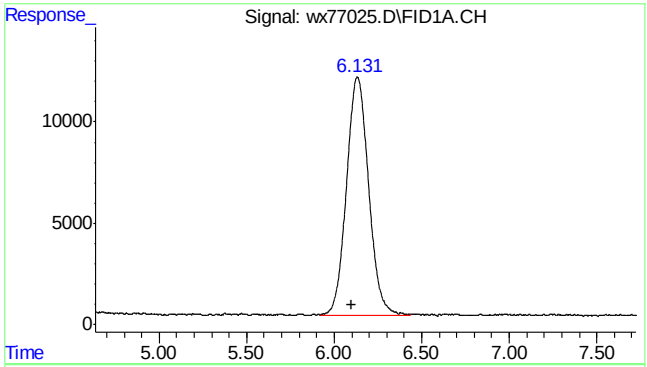
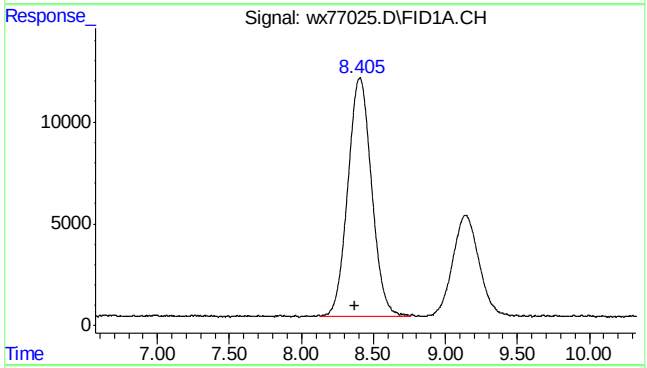


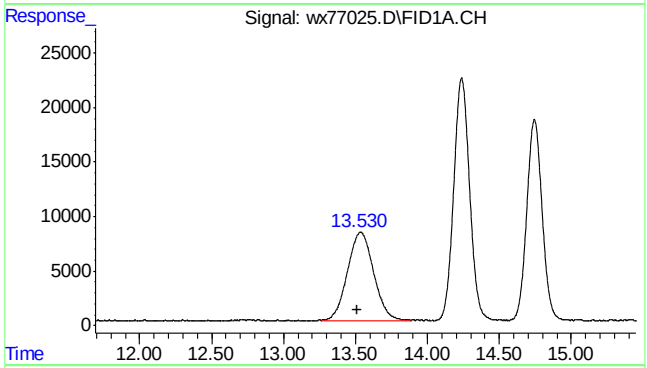
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1038789
Conc: 43.90 ppb m



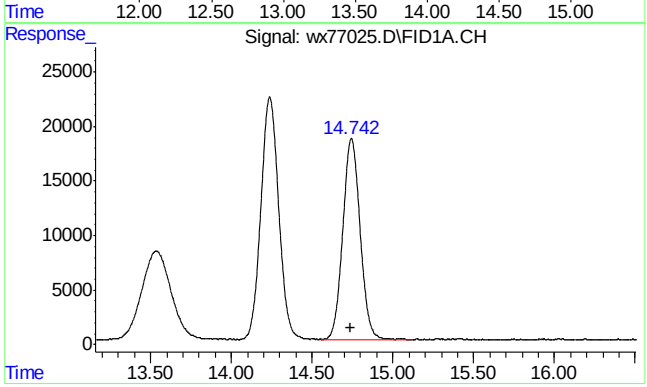
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1351506
Conc: 57.12 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1035513
Conc: 43.76 ppb m



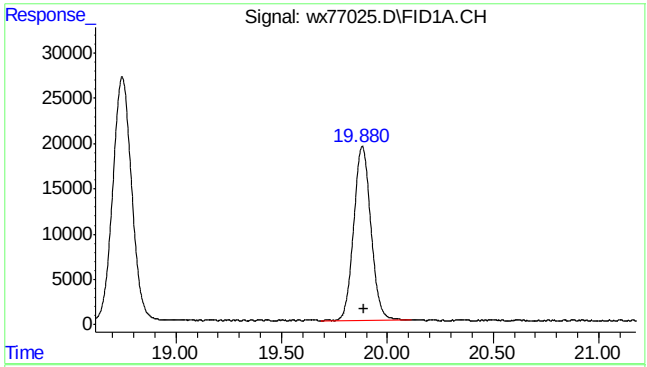
#4 fluorobenzene

R.T.: 14.743 min
Delta R.T.: 0.005 min
Response: 1377988
Conc: 48.76 ppb

7.5.10

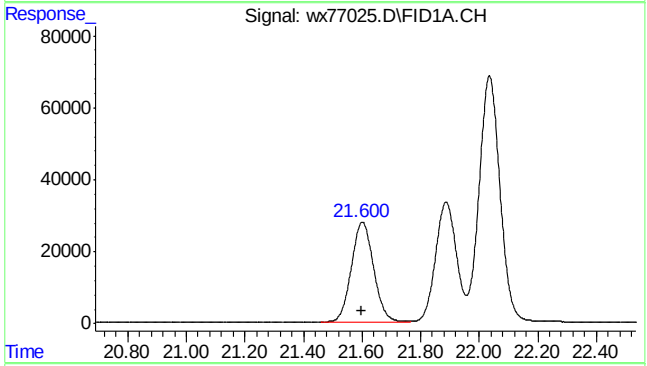
7

SGS ACCUTEST MC46423



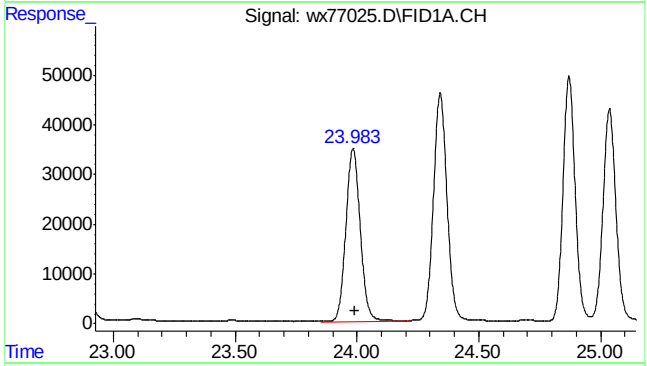
#6 2,3,4-trifluorotoluene

R.T.: 19.881 min
Delta R.T.: -0.009 min
Response: 1093122
Conc: 47.70 ppb



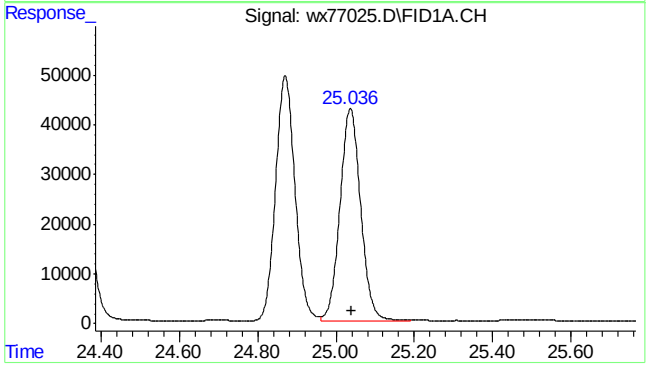
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1472906
Conc: 41.09 ppb m



#10 Decane

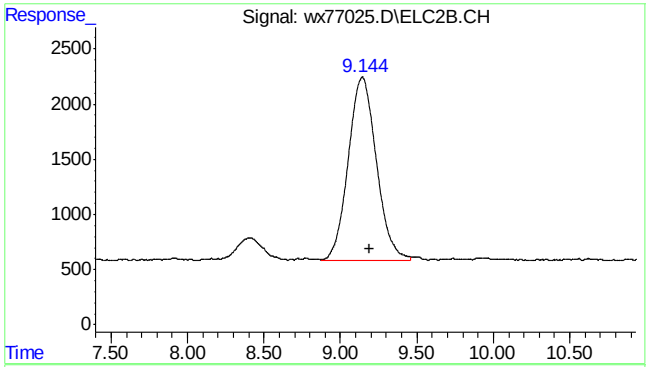
R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1429444
Conc: 39.88 ppb m



#11 Butylcyclohexane

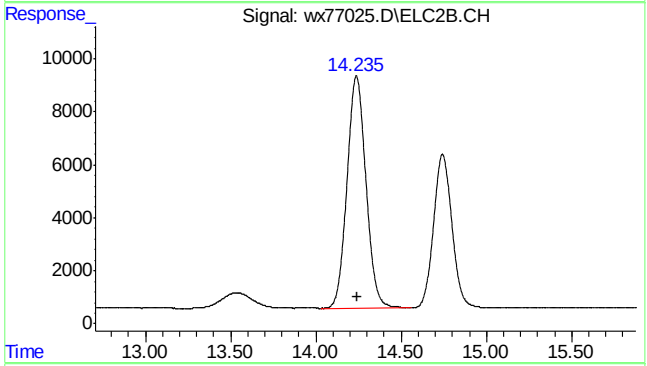
R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1581154
Conc: 44.11 ppb m

SGS ACCUTEST MC46423



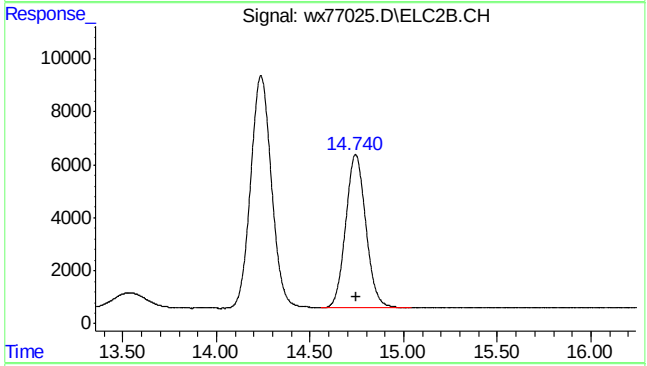
#14 mtbe #2

R.T.: 9.144 min
Delta R.T.: -0.047 min
Response: 211112
Conc: 48.39 ppb



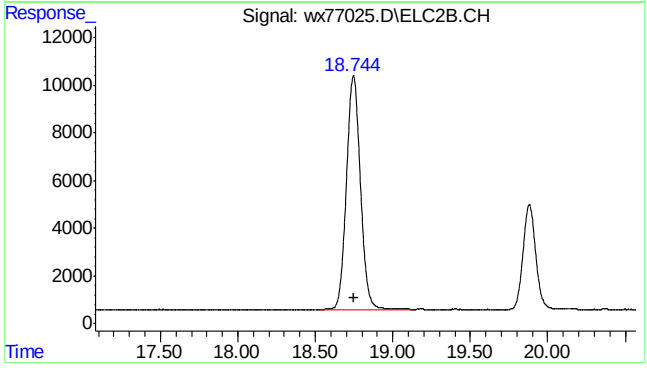
#15 benzene #2

R.T.: 14.237 min
Delta R.T.: -0.008 min
Response: 678959
Conc: 47.80 ppb



#16 fluorobenzene #2

R.T.: 14.742 min
Delta R.T.: -0.002 min
Response: 435459
Conc: 47.76 ppb



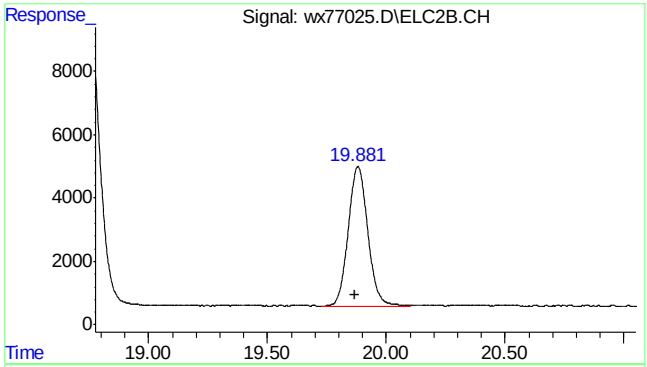
#17 toluene #2

R.T.: 18.746 min
Delta R.T.: -0.003 min
Response: 617957
Conc: 48.03 ppb

7.5.10

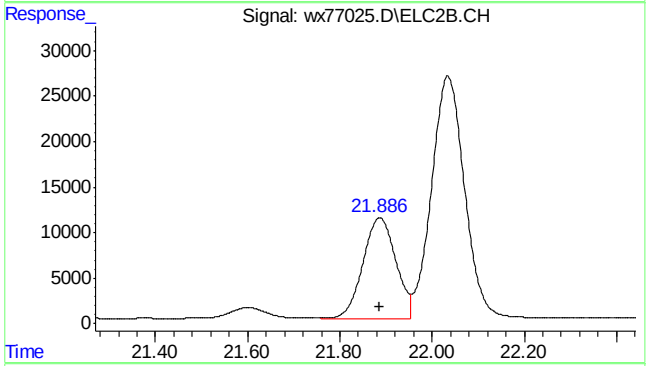
7

SGS ACCUTEST MC46423



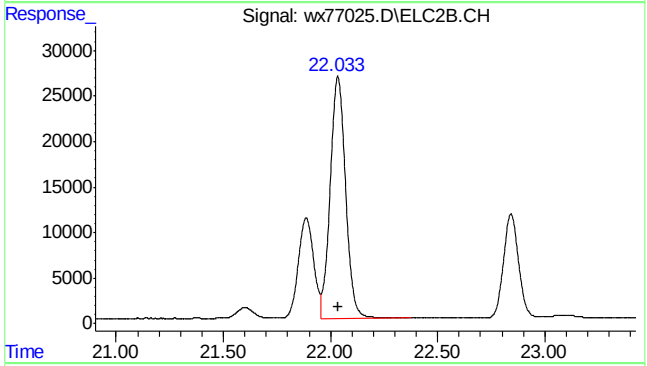
#18 2,3,4-trifluorotoluene #2

R.T.: 19.881 min
Delta R.T.: 0.012 min
Response: 251756
Conc: 46.09 ppb



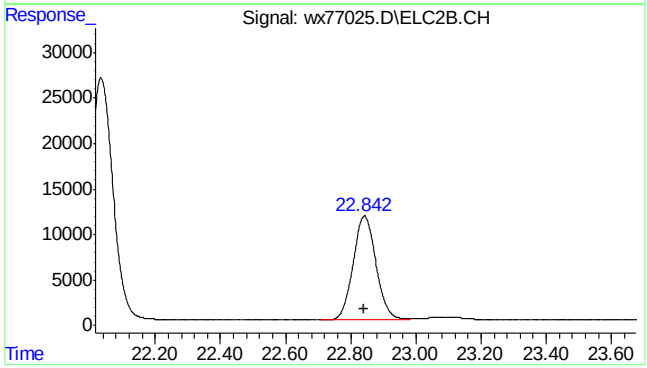
#19 ethylbenzene #2

R.T.: 21.886 min
Delta R.T.: 0.000 min
Response: 547240
Conc: 47.81 ppb



#20 m,p-xylene #2

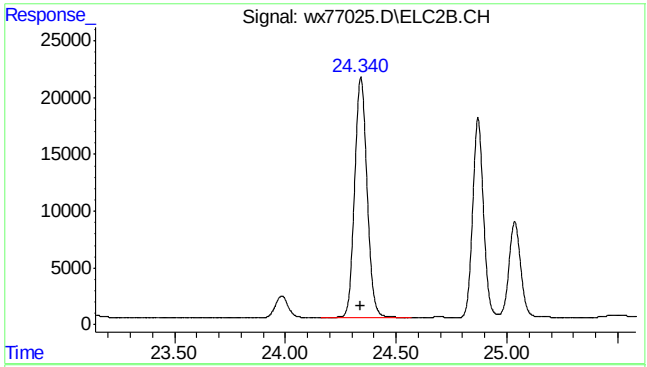
R.T.: 22.034 min
Delta R.T.: 0.000 min
Response: 1326976
Conc: 96.04 ppb



#21 o-xylene #2

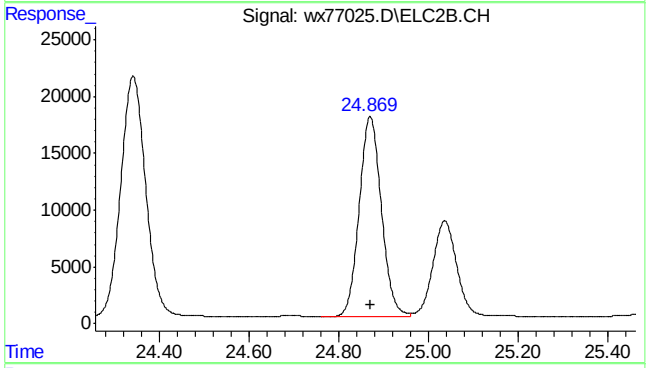
R.T.: 22.842 min
Delta R.T.: 0.000 min
Response: 560328
Conc: 48.24 ppb

SGS ACCUTEST MC46423



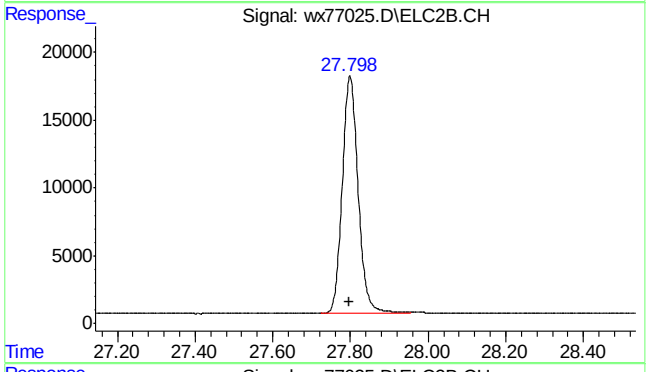
#22 1,3,5-trimethylbenzene #2

R.T.: 24.341 min
Delta R.T.: 0.000 min
Response: 822121
Conc: 48.23 ppb



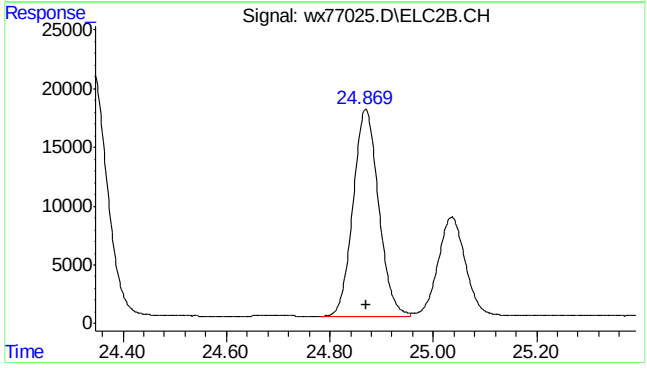
#23 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 604994
Conc: 47.84 ppb



#24 naphthalene #2

R.T.: 27.798 min
Delta R.T.: 0.002 min
Response: 495364
Conc: 55.61 ppb m



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

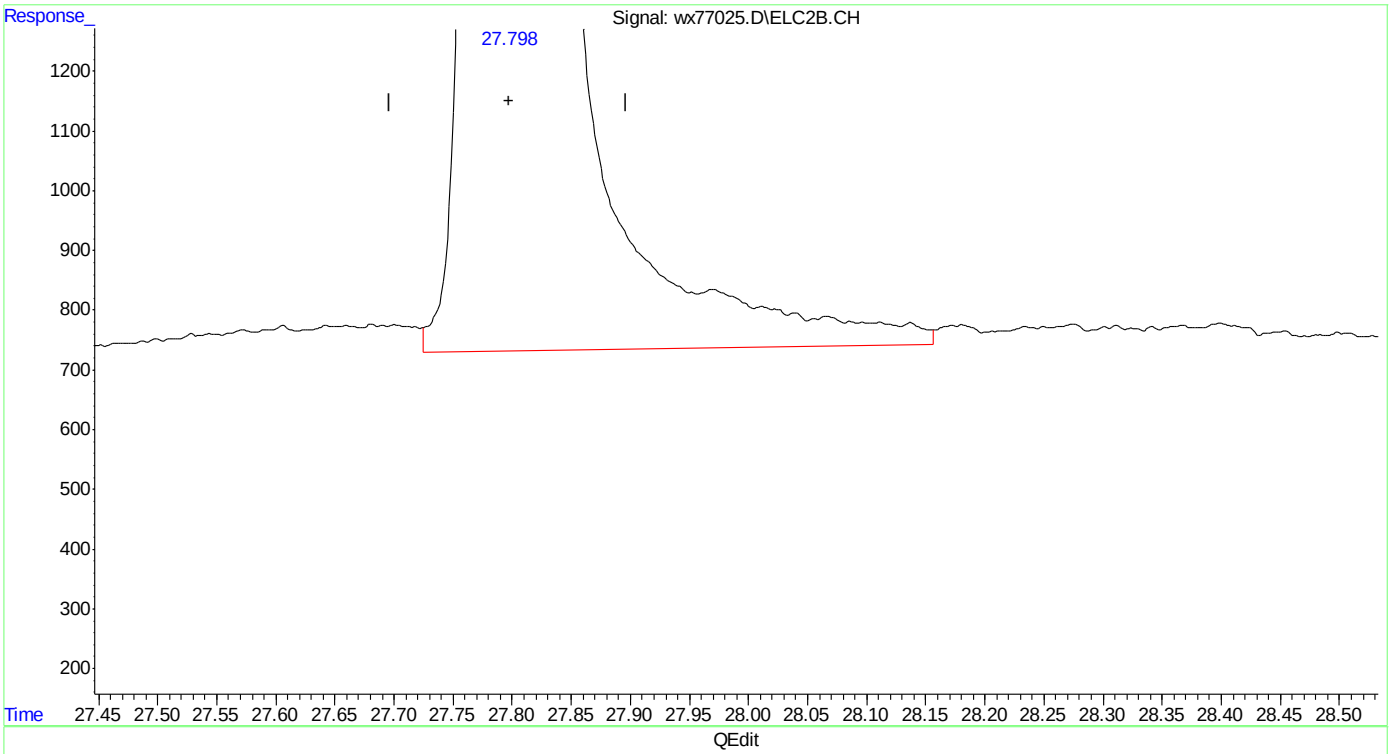
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 604244
Conc: 47.80 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:46:22 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.799min 57.011 ppb

response 507838

(+) = Expected Retention Time

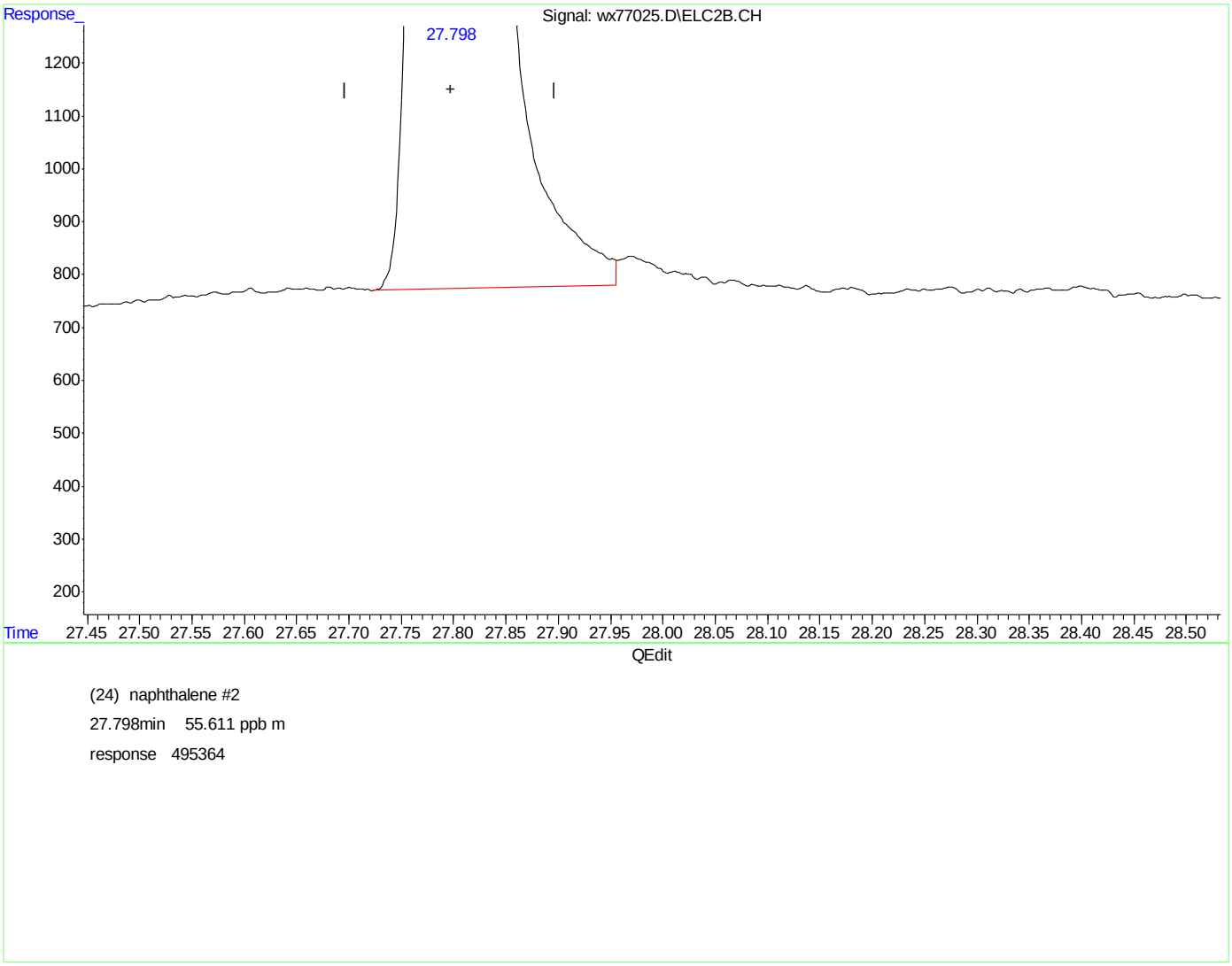
wx160602vph.M Thu Jun 02 13:47:01 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\wx160602\
Data File : wx77025.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 02 Jun 2016   1:06 pm
Operator  : tonyf
Sample    : icv3782-50,gv16404
Misc      : gc26310,gwx3782,,,,5,1
ALS Vial  : 10   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 02 13:46:22 2016
Quant Method : C:\msdchem\1\METHODS\wx160602vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(+) = Expected Retention Time

wx160602vph.M Thu Jun 02 13:47:07 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77168.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:19 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 07:53:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.746	1466056	51.878 ppb
Spiked Amount 50.000		Recovery	= 103.76%
6) s 2,3,4-trifluorotoluene	19.884	1177851	51.400 ppb
Spiked Amount 50.000		Recovery	= 102.80%
16) s fluorobenzene #2	14.746	462058	50.679 ppb
Spiked Amount 50.000		Recovery	= 101.36%
18) s 2,3,4-trifluorotoluen...	19.883	270961	49.611 ppb
Spiked Amount 50.000		Recovery	= 99.22%
Target Compounds			
1) h rt5.5-7	6.100	1063492	44.944 ppb
2) h rt7/10	8.370	1369523	57.877 ppb
3) h rt10/13	13.510	1090385	46.080 ppb
8) h rt20/25	21.600	1486488	41.474 ppb
10) h Decane	23.990	1453556	40.555 ppb
11) h Butylcyclohexane	25.040	1614206	45.037 ppb
14) mtbe #2	9.141f	217166	49.775 ppb
15) benzene #2	14.240	680938	47.934 ppb
17) toluene #2	18.748	625003	48.582 ppb
19) ethylbenzene #2	21.888	553038	48.314 ppb
20) m,p-xylene #2	22.037	1359709	98.405 ppb
21) o-xylene #2	22.844	570066	49.082 ppb
22) t 1,3,5-trimethylbenzen...	24.342	839559	49.256 ppb
23) 1,2,4-trimethylbenzen...	24.870	617810	48.857 ppb
24) naphthalene #2	27.799	534907	60.050 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	616186	48.749 ppb

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

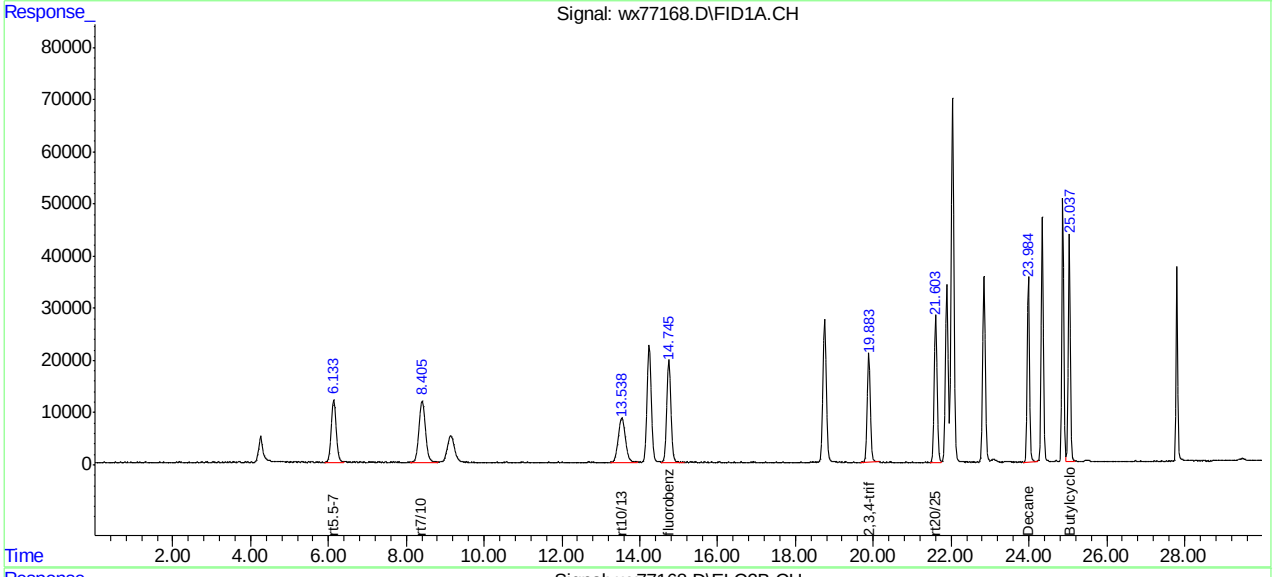
7.5.11
7

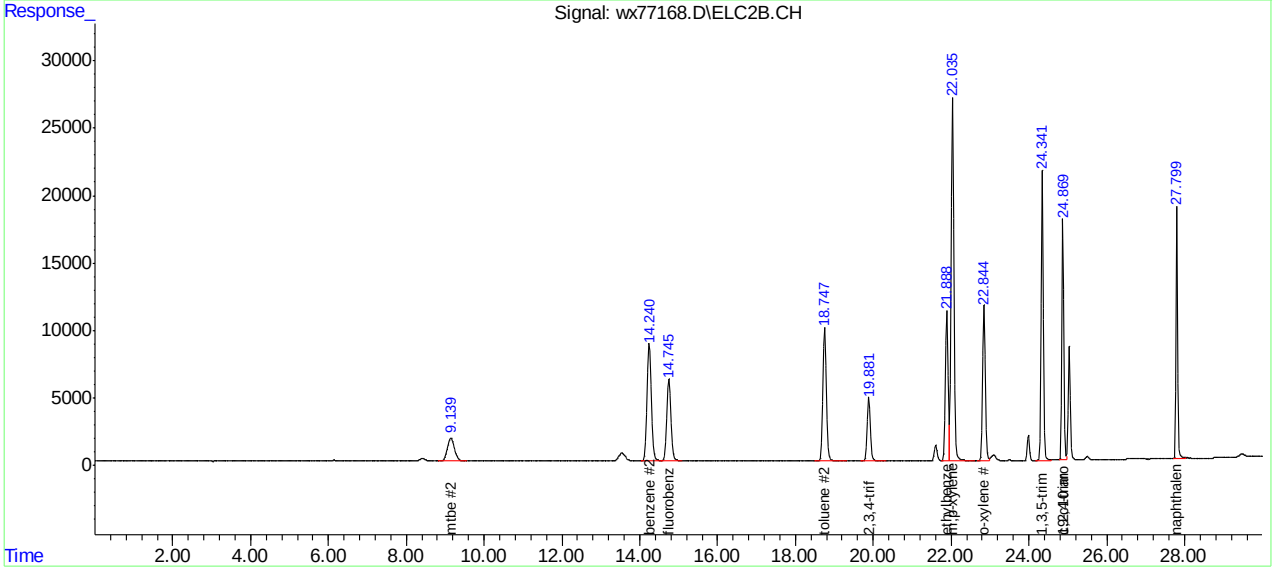
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77168.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:19 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

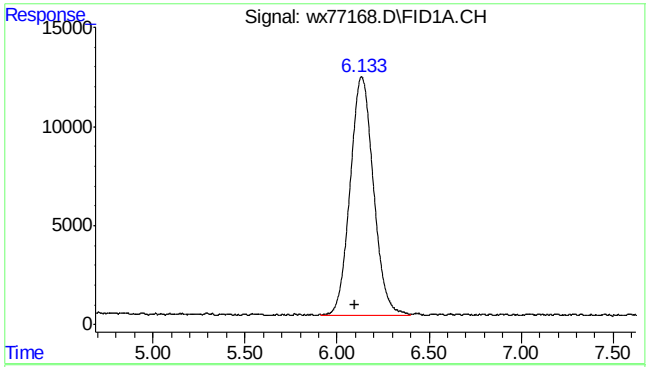
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 07:53:08 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



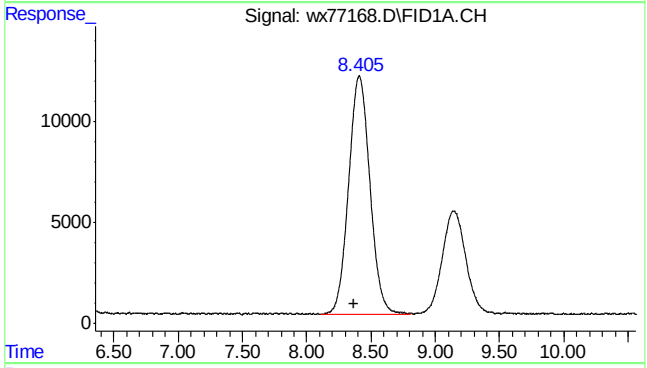


SGS ACCUTEST MC46423



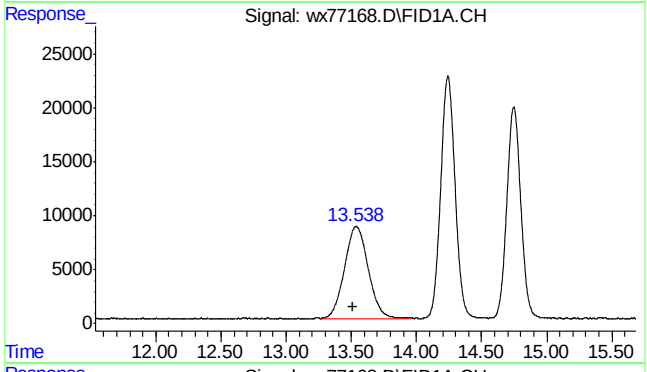
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 1063492
Conc: 44.94 ppb m



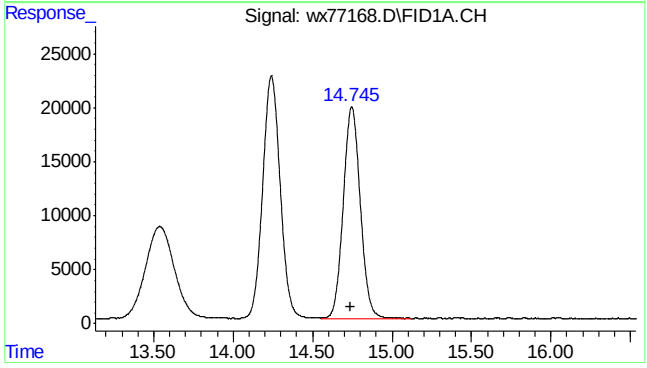
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1369523
Conc: 57.88 ppb m



#3 rt10/13

R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1090385
Conc: 46.08 ppb m



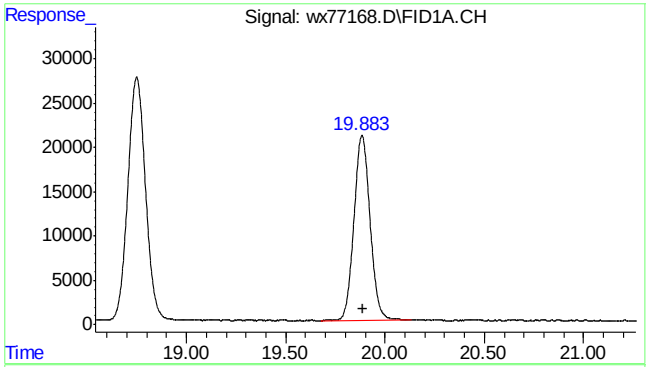
#4 fluorobenzene

R.T.: 14.746 min
Delta R.T.: 0.008 min
Response: 1466056
Conc: 51.88 ppb

7.5.11

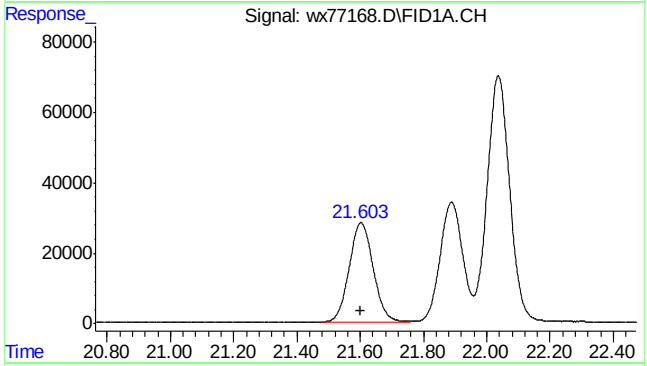
7

SGS ACCUTEST MC46423



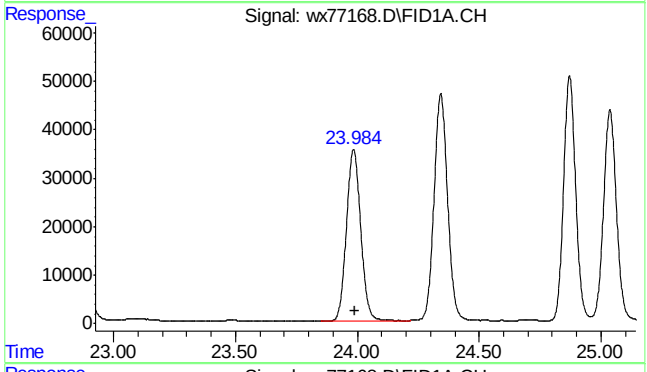
#6 2,3,4-trifluorotoluene

R.T.: 19.884 min
Delta R.T.: -0.006 min
Response: 1177851
Conc: 51.40 ppb



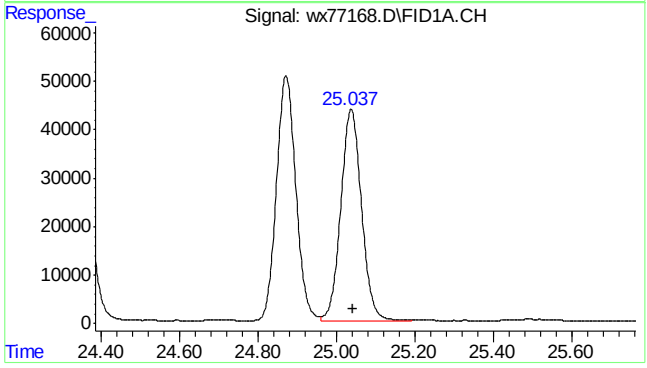
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1486488
Conc: 41.47 ppb m



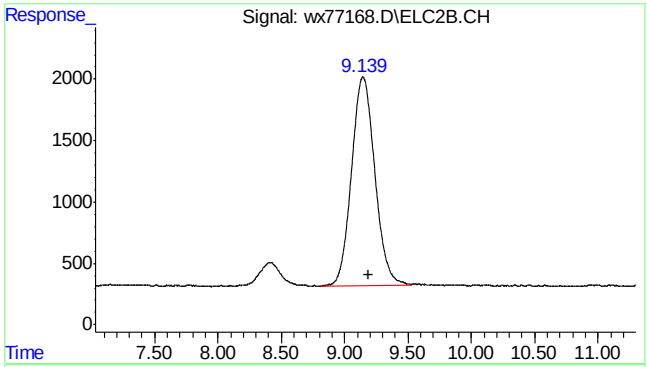
#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1453556
Conc: 40.55 ppb m



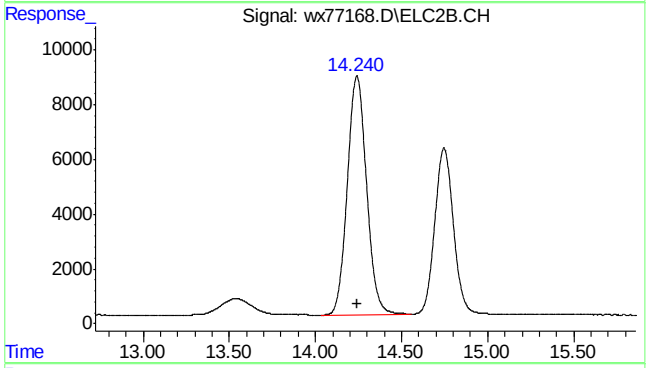
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1614206
Conc: 45.04 ppb m



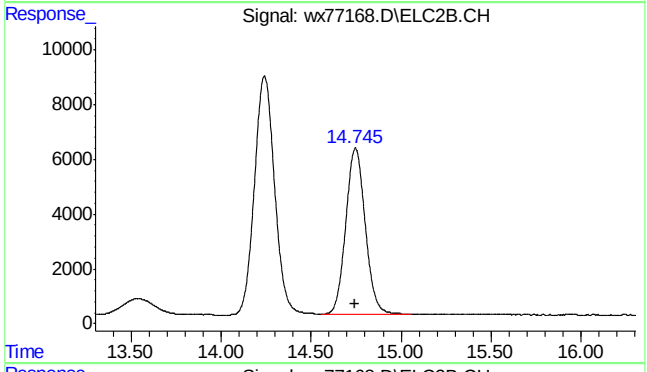
#14 mtbe #2

R.T.: 9.141 min
Delta R.T.: -0.051 min
Response: 217166
Conc: 49.78 ppb



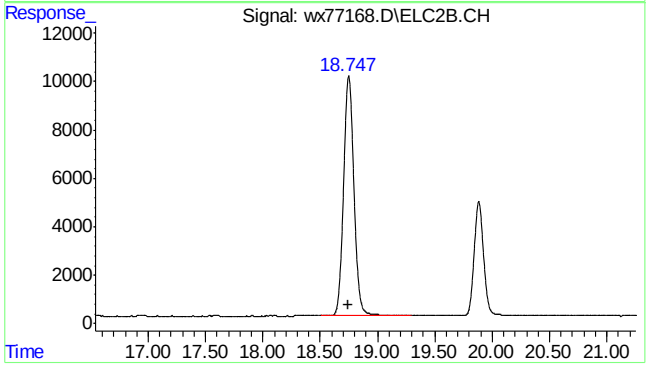
#15 benzene #2

R.T.: 14.240 min
Delta R.T.: -0.004 min
Response: 680938
Conc: 47.93 ppb



#16 fluorobenzene #2

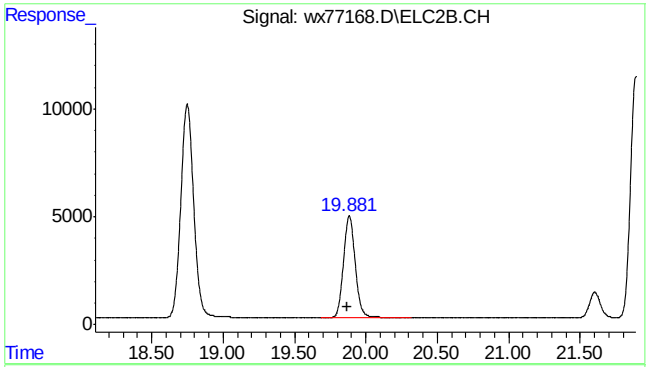
R.T.: 14.746 min
Delta R.T.: 0.002 min
Response: 462058
Conc: 50.68 ppb



#17 toluene #2

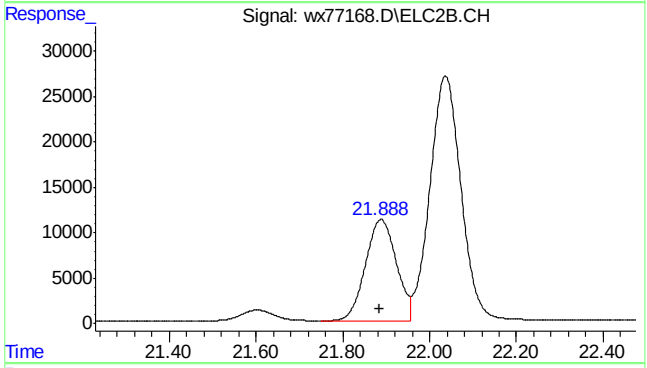
R.T.: 18.748 min
Delta R.T.: 0.000 min
Response: 625003
Conc: 48.58 ppb

SGS ACCUTEST MC46423



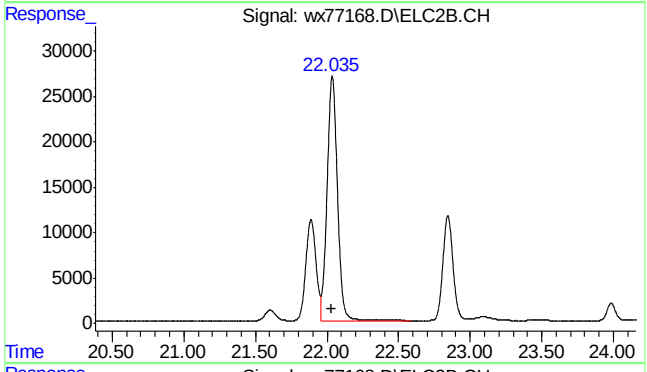
#18 2,3,4-trifluorotoluene #2

R.T.: 19.883 min
Delta R.T.: 0.014 min
Response: 270961
Conc: 49.61 ppb



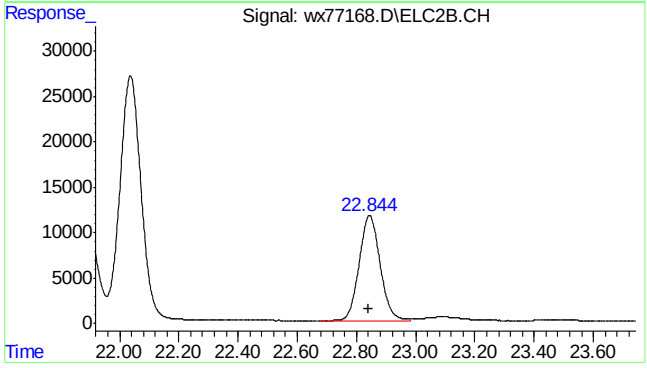
#19 ethylbenzene #2

R.T.: 21.888 min
Delta R.T.: 0.003 min
Response: 553038
Conc: 48.31 ppb



#20 m,p-xylene #2

R.T.: 22.037 min
Delta R.T.: 0.003 min
Response: 1359709
Conc: 98.41 ppb



#21 o-xylene #2

R.T.: 22.844 min
Delta R.T.: 0.002 min
Response: 570066
Conc: 49.08 ppb

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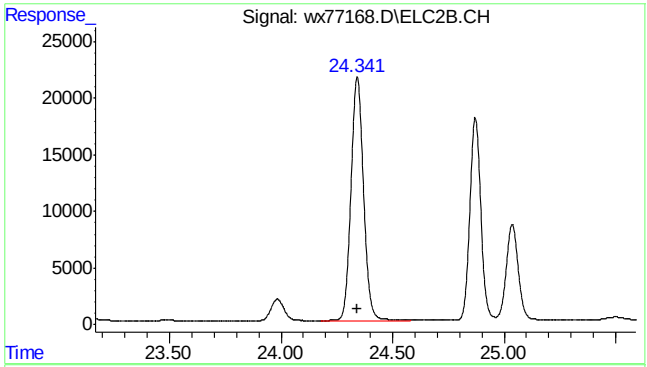
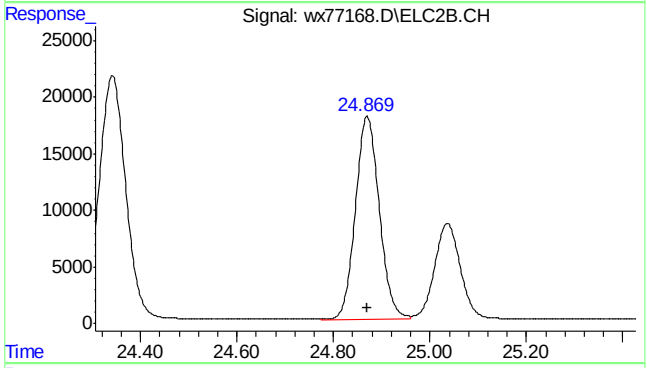


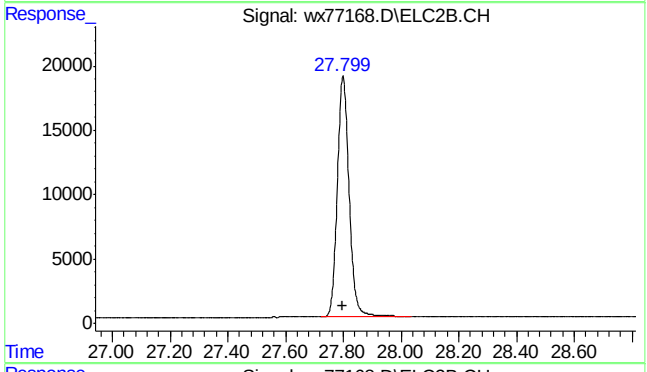
#22 1,3,5-trimethylbenzene #2

R.T.: 24.342 min
Delta R.T.: 0.001 min
Response: 839559
Conc: 49.26 ppb



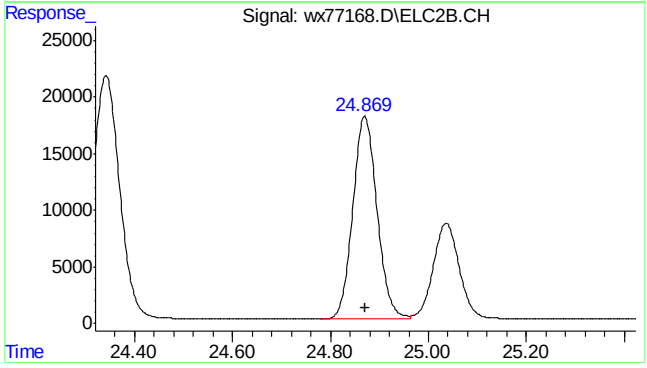
#23 1,2,4-trimethylbenzene #2

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 617810
Conc: 48.86 ppb



#24 naphthalene #2

R.T.: 27.799 min
Delta R.T.: 0.002 min
Response: 534907
Conc: 60.05 ppb m



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

R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 616186
Conc: 48.75 ppb m

7.5.11

7

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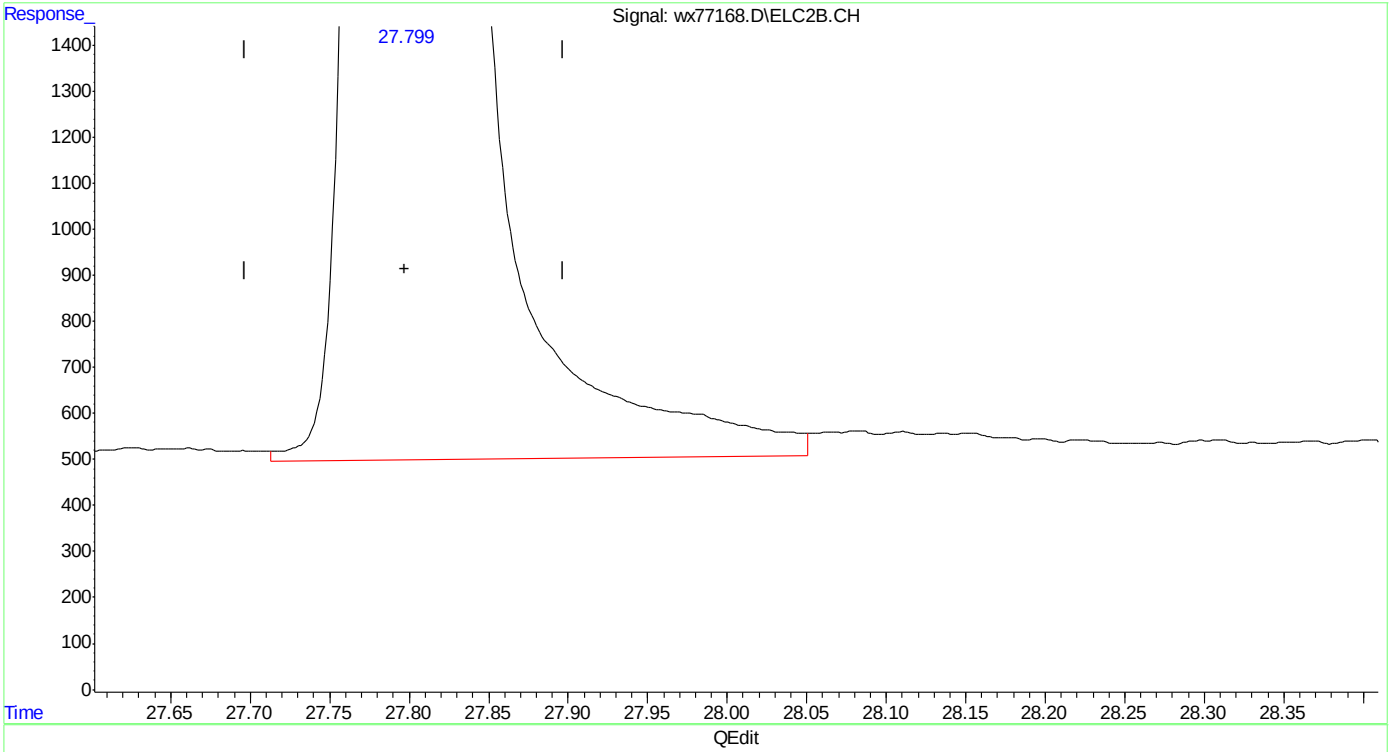
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77168.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:19 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 07:51:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.799min 60.497 ppb
response 538891

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 07:52:57 2016

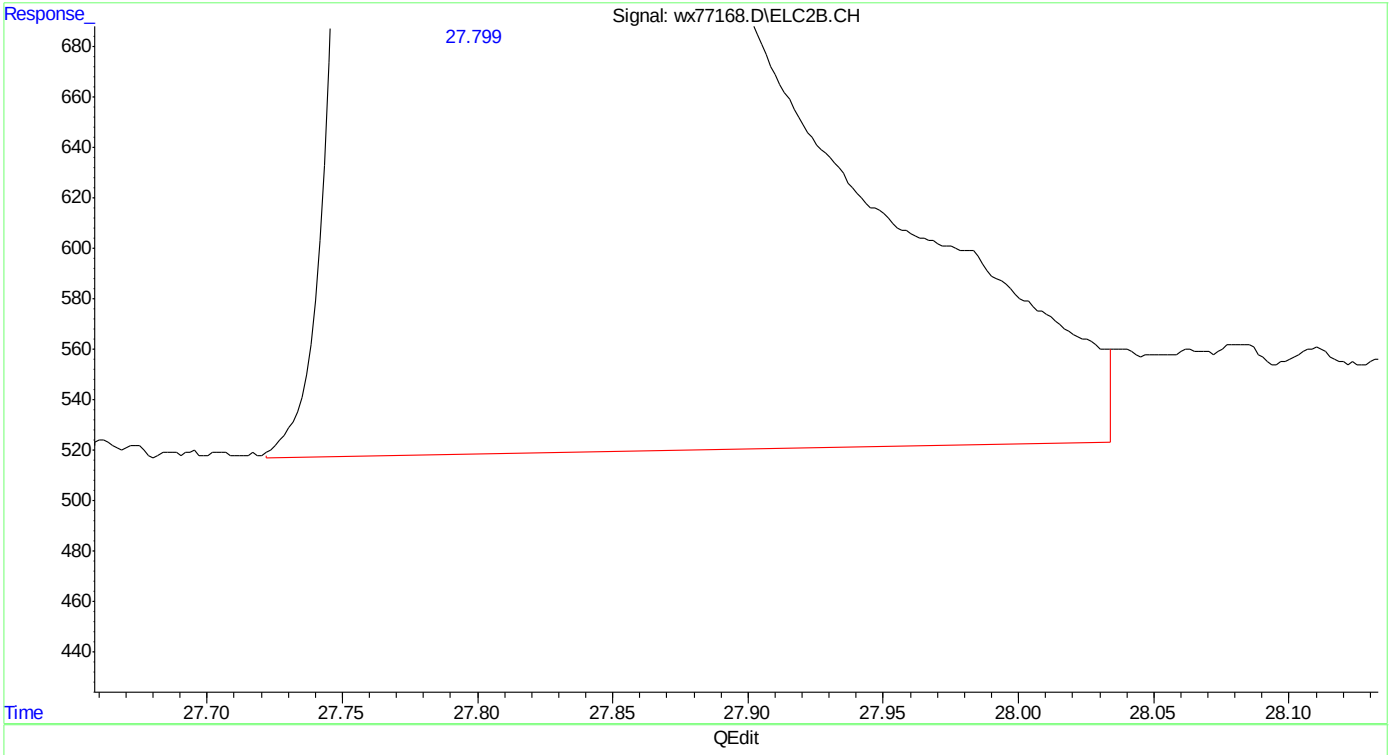
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\wx160620\
Data File : wx77168.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 20 Jun 2016 7:19 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 20 07:51:59 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2
27.799min 60.050 ppb m
response 534907

(+) = Expected Retention Time
wx160620vph.M Mon Jun 20 07:53:03 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/21/16 08:46

Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77186.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 21 Jun 2016 7:11 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 08:27:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise 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	14.750	1466405	51.891 ppb
Spiked Amount 50.000		Recovery	= 103.78%
6) s 2,3,4-trifluorotoluene	19.889	1198583	52.304 ppb
Spiked Amount 50.000		Recovery	= 104.61%
16) s fluorobenzene #2	14.750	463179	50.802 ppb
Spiked Amount 50.000		Recovery	= 101.60%
18) s 2,3,4-trifluorotoluen...	19.888	266981	48.883 ppb
Spiked Amount 50.000		Recovery	= 97.77%
Target Compounds			
1) h rt5.5-7	6.100	943758	39.884 ppb
2) h rt7/10	8.370	1292894	54.638 ppb
3) h rt10/13	13.510	1002604	42.370 ppb
8) h rt20/25	21.600	1471824	41.064 ppb
10) h Decane	23.990	1413200	39.429 ppb
11) h Butylcyclohexane	25.040	1580987	44.110 ppb
14) mtbe #2	9.147	211036	48.370 ppb
15) benzene #2	14.244	681943	48.005 ppb
17) toluene #2	18.754	627799	48.800 ppb
19) ethylbenzene #2	21.894	551502	48.180 ppb
20) m,p-xylene #2	22.042	1349486	97.665 ppb
21) o-xylene #2	22.850	562759	48.453 ppb
22) t 1,3,5-trimethylbenzen...	24.348	830459	48.722 ppb
23) 1,2,4-trimethylbenzen...	24.877	609950	48.236 ppb
24) naphthalene #2	27.806	512104	57.490 ppb m
25) h c9-c10 arom as 1,2,4-tmb	24.870	609108	48.189 ppb

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

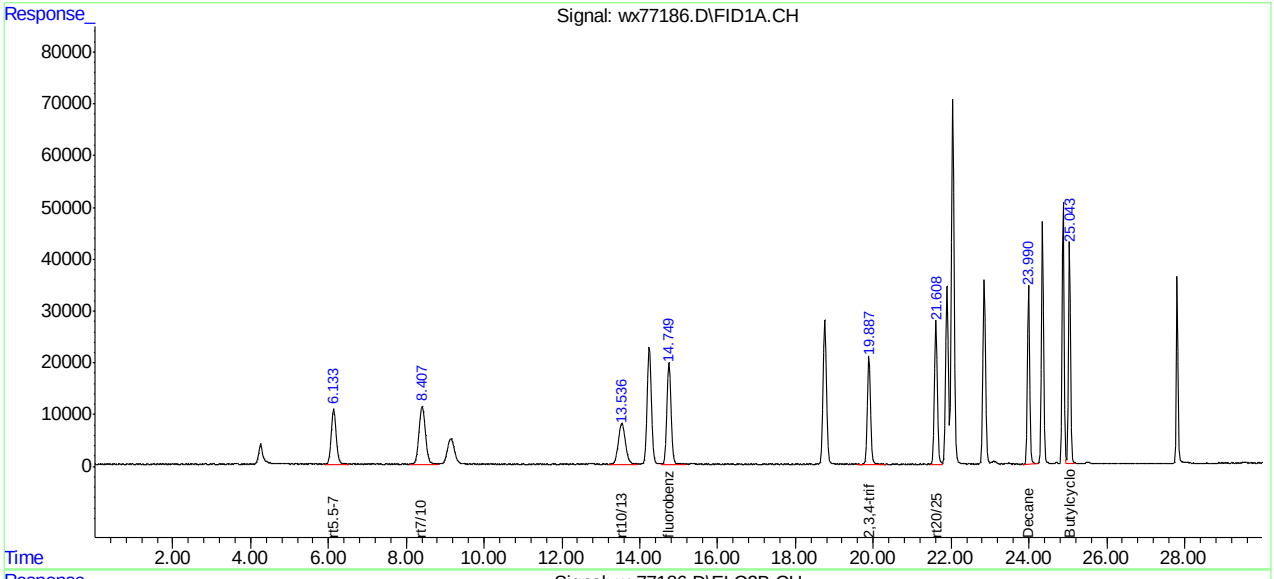
7.5.12
7

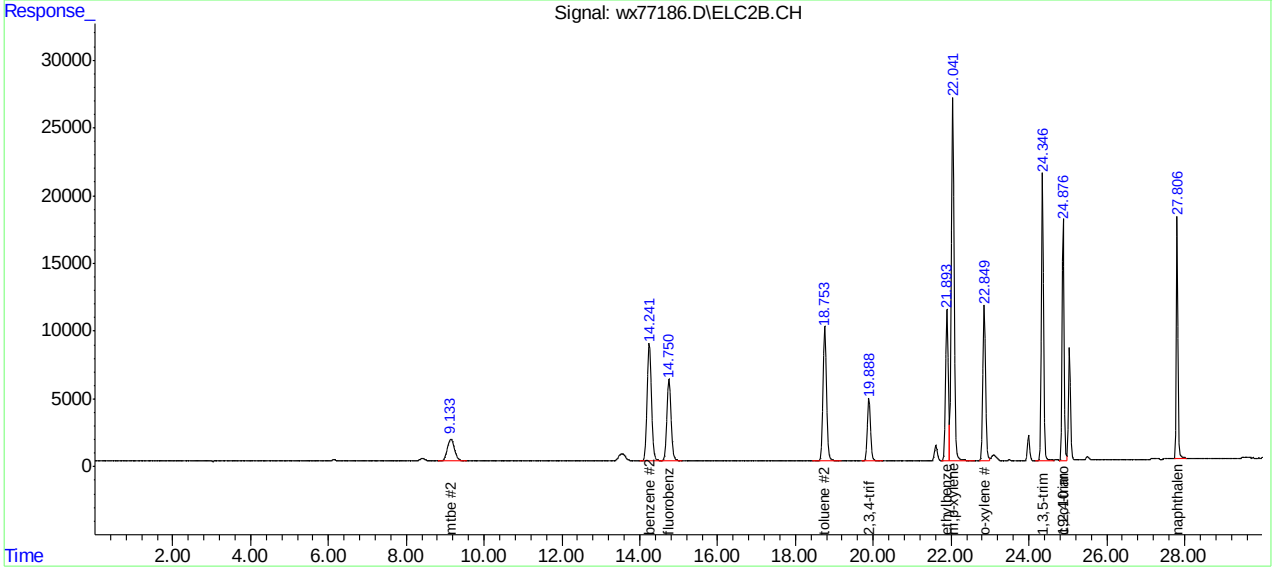
Quantitation Report (QT Reviewed)

Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77186.D
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 21 Jun 2016 7:11 am
Operator : tonyf
Sample : cc3782-50
Misc : gc26383,gwx3796,,,,5,1
ALS Vial : 1 Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 08:27:14 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Small noise peaks clipped

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





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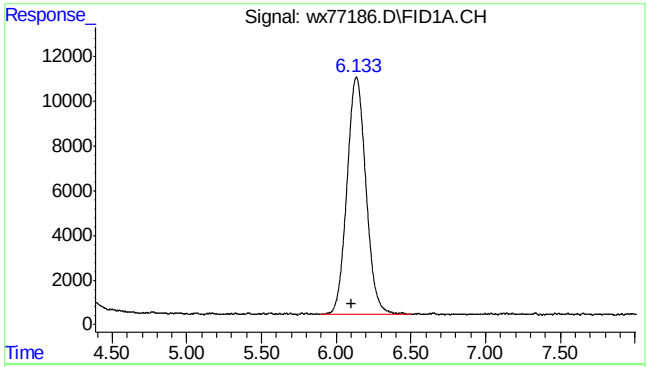
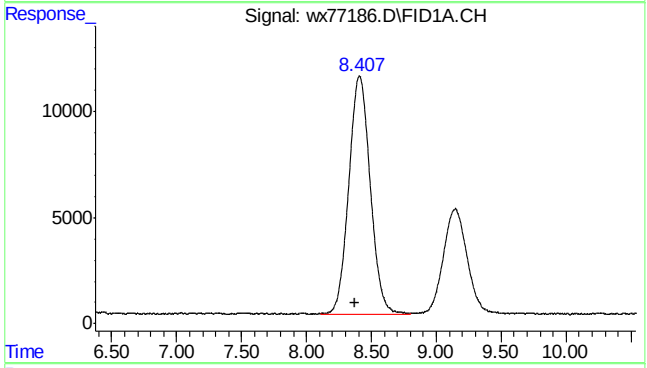


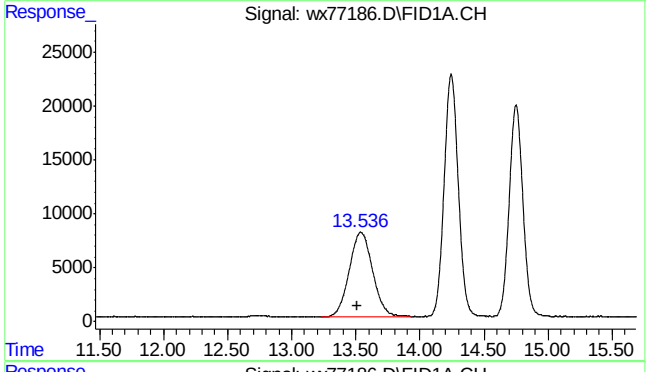
#1 rt5.5-7

R.T.: 6.100 min
Delta R.T.: 0.000 min
Response: 943758
Conc: 39.88 ppb m



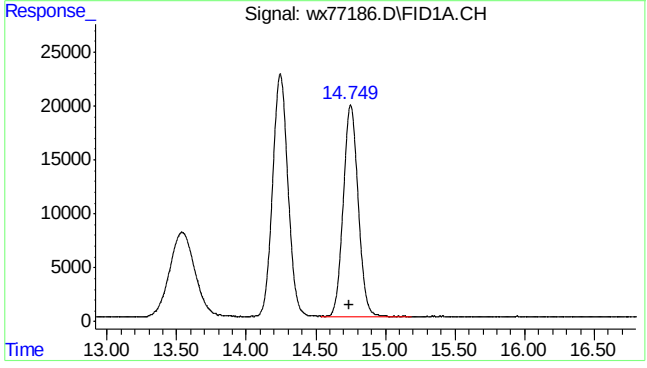
#2 rt7/10

R.T.: 8.370 min
Delta R.T.: 0.000 min
Response: 1292894
Conc: 54.64 ppb m



#3 rt10/13

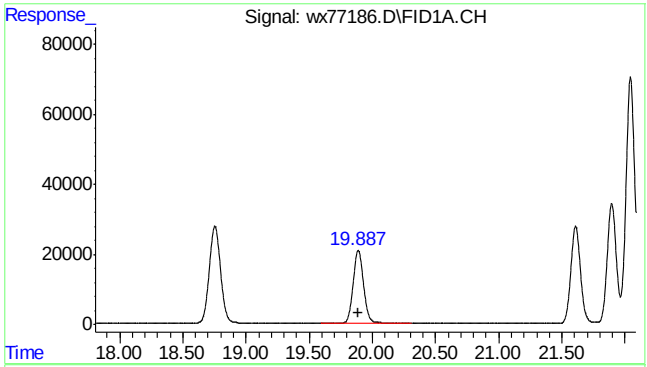
R.T.: 13.510 min
Delta R.T.: 0.000 min
Response: 1002604
Conc: 42.37 ppb m



#4 fluorobenzene

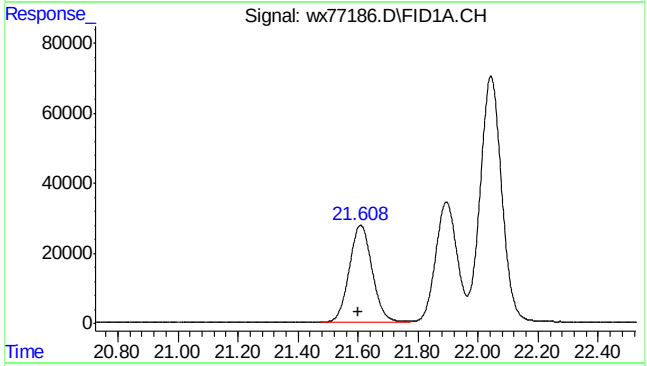
R.T.: 14.750 min
Delta R.T.: 0.012 min
Response: 1466405
Conc: 51.89 ppb

SGS ACCUTEST MC46423



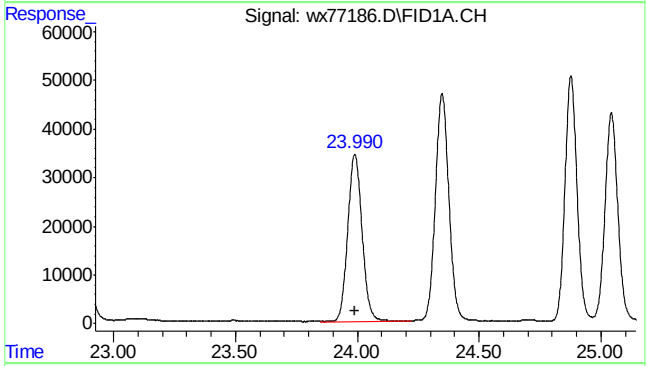
#6 2,3,4-trifluorotoluene

R.T.: 19.889 min
Delta R.T.: -0.002 min
Response: 1198583
Conc: 52.30 ppb



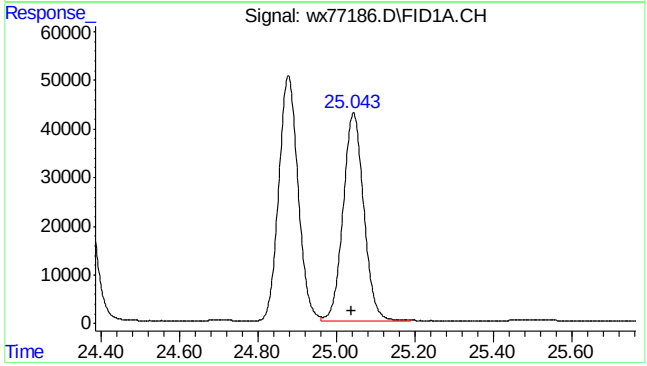
#8 rt20/25

R.T.: 21.600 min
Delta R.T.: 0.000 min
Response: 1471824
Conc: 41.06 ppb m



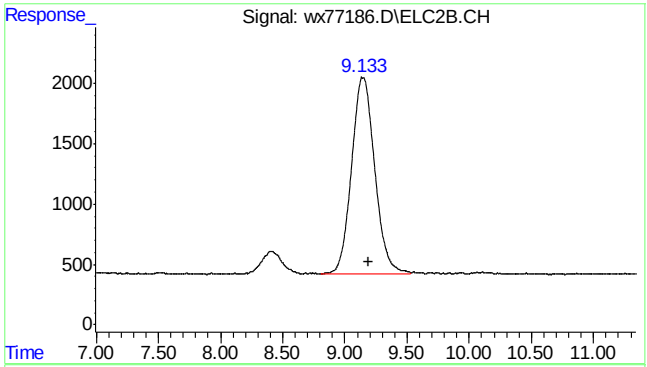
#10 Decane

R.T.: 23.990 min
Delta R.T.: 0.000 min
Response: 1413200
Conc: 39.43 ppb m



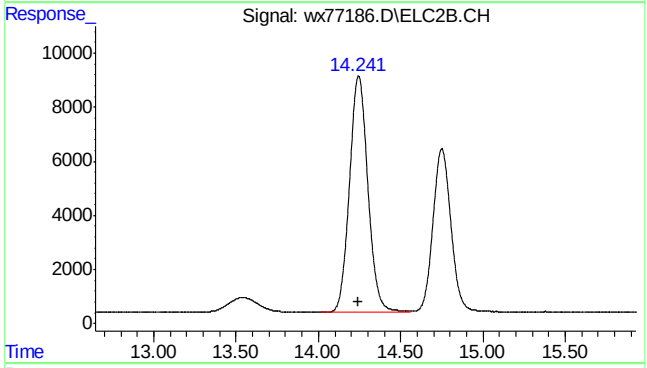
#11 Butylcyclohexane

R.T.: 25.040 min
Delta R.T.: 0.000 min
Response: 1580987
Conc: 44.11 ppb m



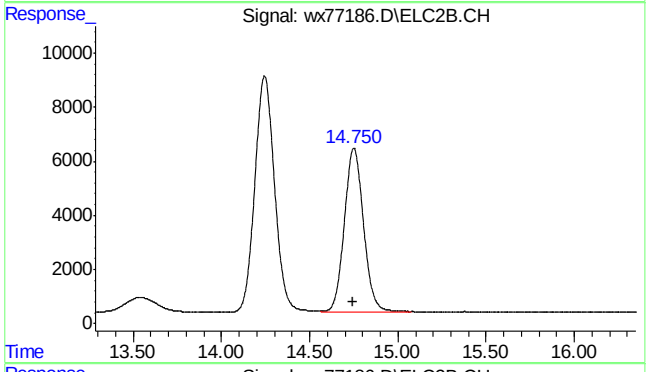
#14 mtbe #2

R.T.: 9.147 min
Delta R.T.: -0.045 min
Response: 211036
Conc: 48.37 ppb



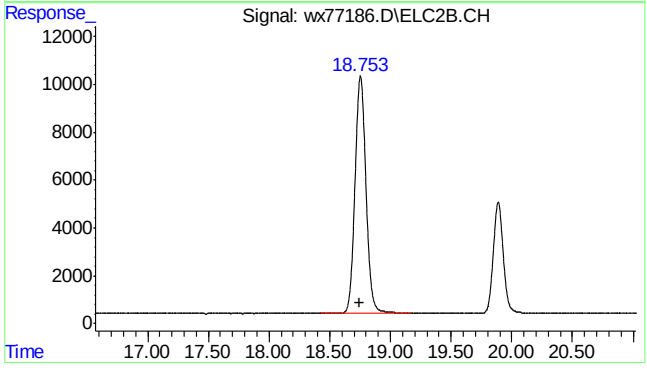
#15 benzene #2

R.T.: 14.244 min
Delta R.T.: 0.000 min
Response: 681943
Conc: 48.01 ppb



#16 fluorobenzene #2

R.T.: 14.750 min
Delta R.T.: 0.006 min
Response: 463179
Conc: 50.80 ppb



#17 toluene #2

R.T.: 18.754 min
Delta R.T.: 0.005 min
Response: 627799
Conc: 48.80 ppb

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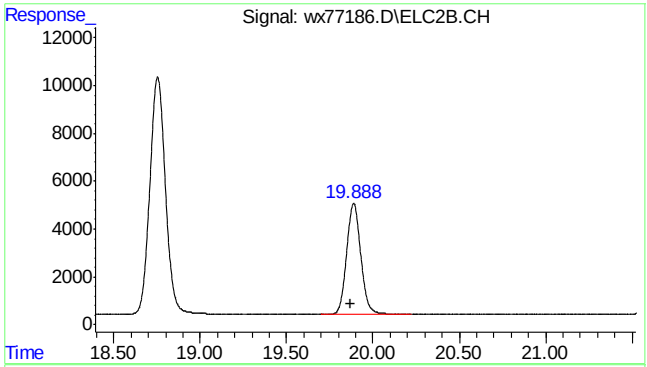
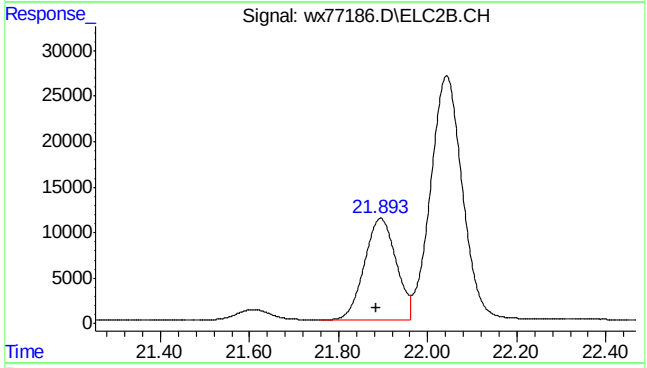


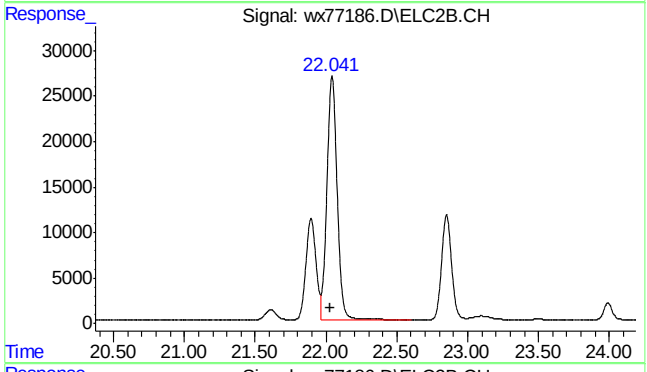
#18 2,3,4-trifluorotoluene #2

R.T.: 19.888 min
Delta R.T.: 0.019 min
Response: 266981
Conc: 48.88 ppb



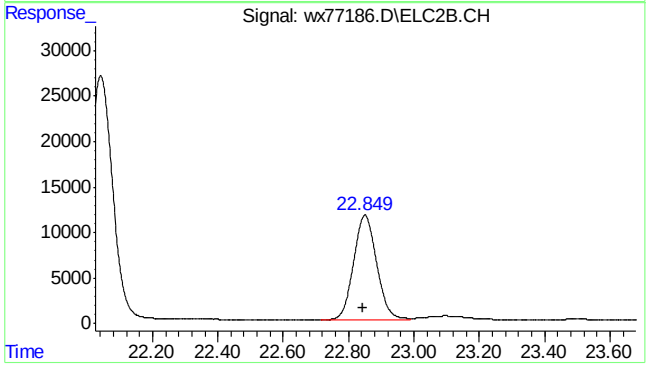
#19 ethylbenzene #2

R.T.: 21.894 min
Delta R.T.: 0.008 min
Response: 551502
Conc: 48.18 ppb



#20 m,p-xylene #2

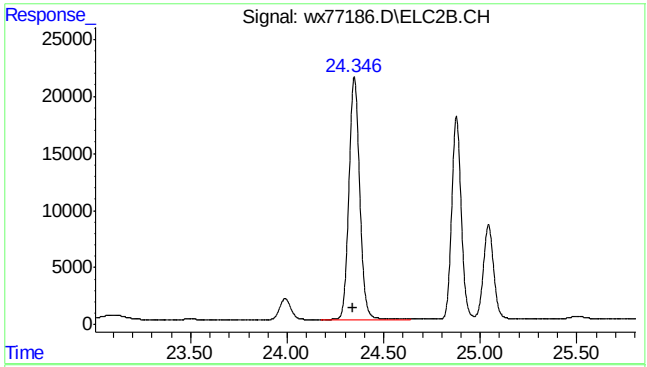
R.T.: 22.042 min
Delta R.T.: 0.008 min
Response: 1349486
Conc: 97.67 ppb



#21 o-xylene #2

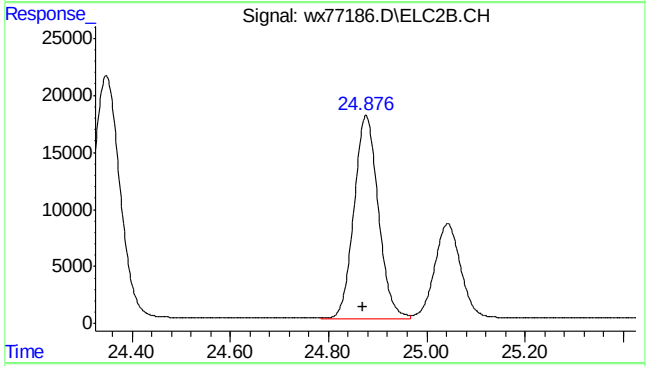
R.T.: 22.850 min
Delta R.T.: 0.008 min
Response: 562759
Conc: 48.45 ppb

SGS ACCUTEST MC46423



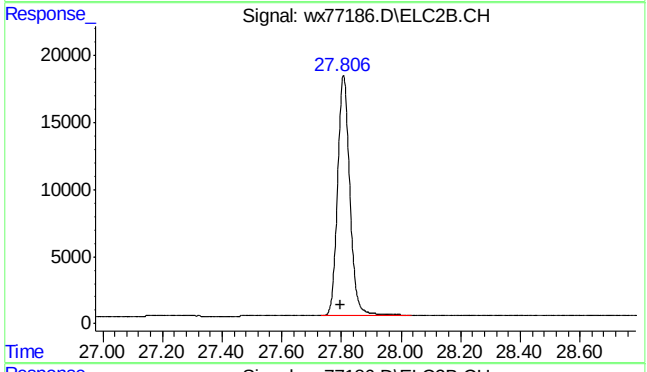
#22 1,3,5-trimethylbenzene #2

R.T.: 24.348 min
Delta R.T.: 0.007 min
Response: 830459
Conc: 48.72 ppb



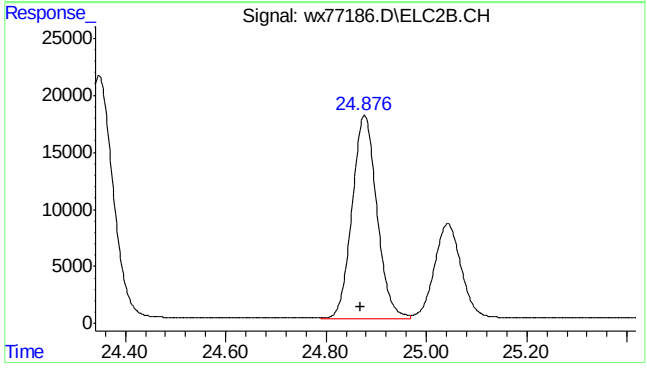
#23 1,2,4-trimethylbenzene #2

R.T.: 24.877 min
Delta R.T.: 0.007 min
Response: 609950
Conc: 48.24 ppb



#24 naphthalene #2

R.T.: 27.806 min
Delta R.T.: 0.009 min
Response: 512104
Conc: 57.49 ppb m



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

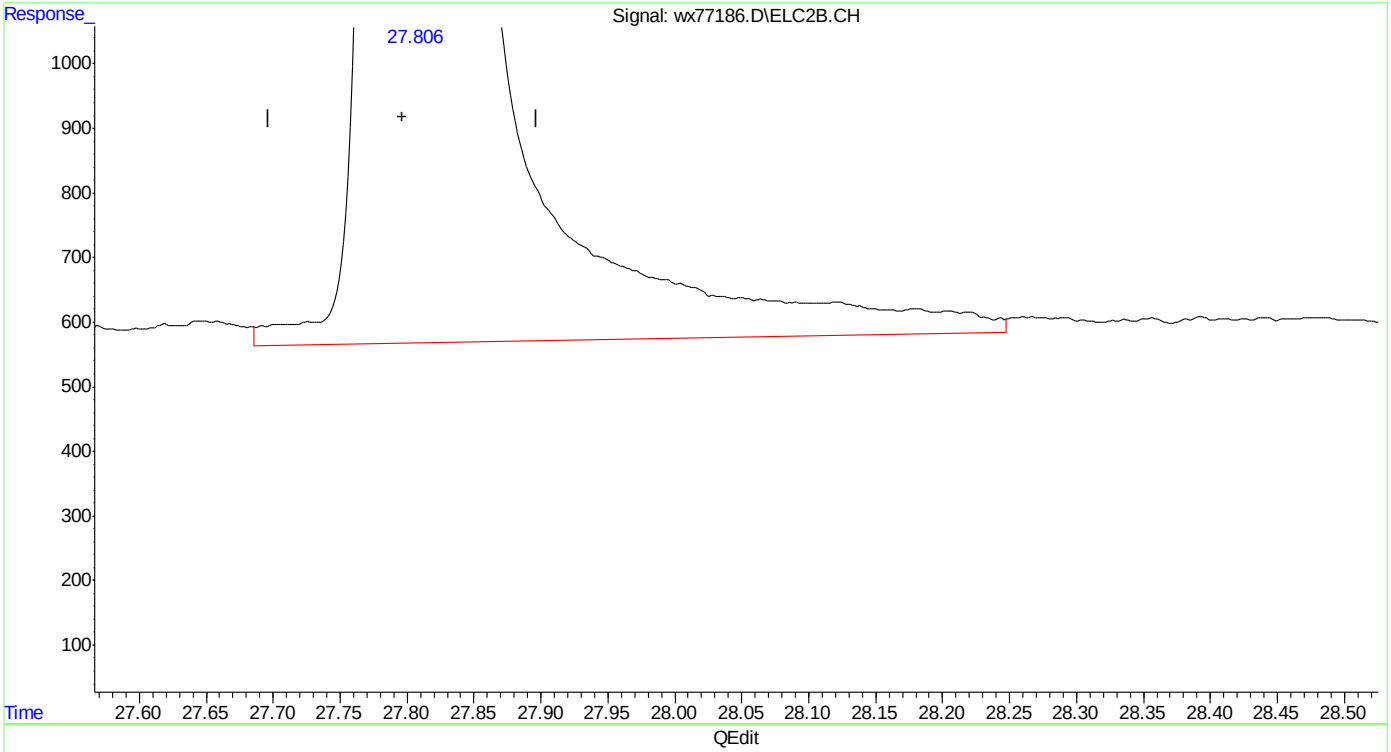
R.T.: 24.870 min
Delta R.T.: 0.000 min
Response: 609108
Conc: 48.19 ppb m

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77186.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 21 Jun 2016   7:11 am
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 08:26:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.807min 58.817 ppb

response 523923

(+) = Expected Retention Time

wx160620vph.M Tue Jun 21 08:27:04 2016

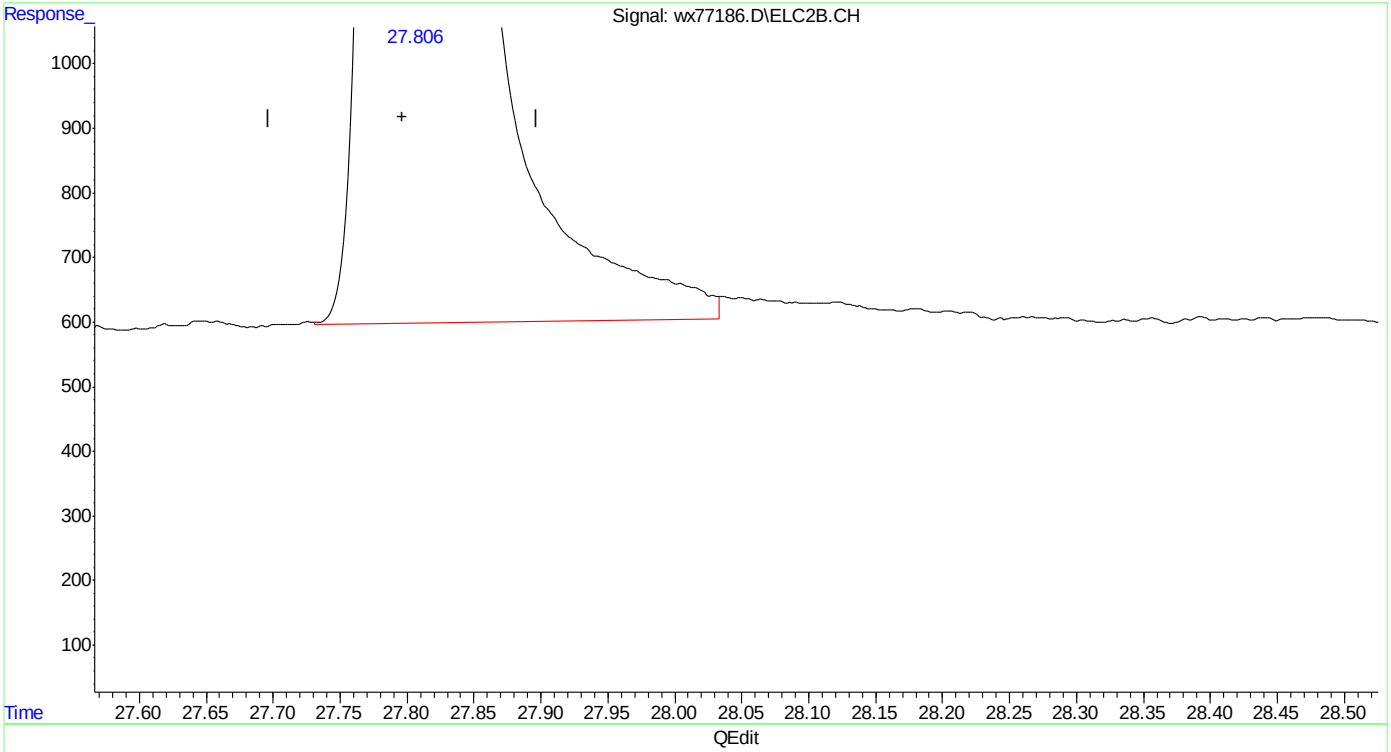
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\MSDCHEM\1\DATA\WX160620\
Data File : wx77186.D
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 21 Jun 2016   7:11 am
Operator  : tonyf
Sample    : cc3782-50
Misc      : gc26383,gwx3796,,,,5,1
ALS Vial  : 1   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 21 08:26:24 2016
Quant Method : C:\msdchem\1\METHODS\wx160620vph.M
Quant Title  : vph
QLast Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Small noise peaks clipped

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



(24) naphthalene #2

27.806min 57.490 ppb m

response 512104

(+) = Expected Retention Time

wx160620vph.M Tue Jun 21 08:27:08 2016

SGS ACCUTEST MC46423

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/2/16 Analyst Signature: aef

Standards Data

Lot #	Description	Conc
Vmaoph	qc 26310 gwx	3782
V8015gro	qc 26317 gwx	3783
V8021 btxmw	qc 26318 gwx	3784
V8015gro mix	qc 26319	gwx3785
qv 16404	2ND Source 50ug/ml	7/8/16

Standards Data

Lot #	Description	Conc
qv 16384	cc 16 a 250 ug/ml	6/16/16
qv 16385	bm	
qv 16401	std 50/50 ug/ml	7/8/16
qv 16402	5/5	
qv 16403	1/1	

Column: mtx 502.2
Method: wxvpH1
GC Seq. File: wx 160602
Method Files:
wx160602 VPH mastr
wx160602 VPH cc 3782-50
AS Seq. File: V8015gro cc3783-650
Seq. Verification: V8021btxmw cc3784-50

Date of ICAL: 6-2-16 ICAL Verified:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
wx 77,016	ic 3782-1000	N/A	qc26310	Vmaoph	1	W	5ml ab 100ul qv 16401	5ml	N/A	N/A	50/50 ug/ml std
17	-500				2		50ul	N/A			
18	-250				3		25ul				
19	-100				4		10ul				
20	icc3782-50				5		5ul				
21	ic3782-10				6		5ml ab 10ul qv16402	5ml			5/5 ug/ml std
22	-5				7		5ul				
23	-2				8		10ul qv16403	5ml			1.0/1.0 ug/ml std
24	-1				9		5ul			4/4/16	~~50 ug/ml 2nd source~~
25	icv 3782-50				10		5ml + 5ul qv 16404			OK	50 ug/ml 2nd source
26	cc3782-50				NA		1ul qv16384				ok not needed
27	mb				NA 3		1ul qv16385				OK
28	bsp				NA 4		1ul qv16384				OK
29	bsd				NA 5						OK

qc 26310	gwx 3782	Vmaoph	cc 3782-50	1.0-1000 ppb		
qc 26317	gwx 3783	V8015gro	cc 3783-650	65 ppb - 13,000 ppb		
qc 26318	gwx 3784	V8021 btxmw Avout	cc 3784-50	1.0-1000 ppb		
qc 26319	gwx 3785	V8015gro mix	cc 3785-750	15-15,000 ppb		

GC001-05 Date: 12/02/08 Dilution Solvent:_____ Lot Number:_____ Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, for water.

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/6/16 Analyst Signature: cof

Standards Data

Lot #	Description	Conc
V8021btxm	qc 263818 qc	WX3784
NO	6/6/16	
Vmaoph	qc 263818 qc	WX3784
NO	263 10 qc	WX3782
	A labels	

Standards Data

Lot #	Description	Conc
qv16384	cc/hsp 250ug/ml	6/16/16
qv16385	Sun ↓	↓

Column: mtx502.2
Method: wxvph1 Date 6/6/16 in VS160603
GC Seq. File: wx160606.5
Method Files:
wx160606 V8021btxm cc3784-50
wx160606 VPH cc 3782-50
AS Seq. File:

Date of ICAL: ICAL Verified: Seq. Verification:

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
✓ 5x77,038	A Concal 5x	N/A	qc26318	V8021btx	1	W	1ml qv16384	N/A	N/A	N/A	
386	A mb	↓	qc26310	vmaoph	2	↓	1ml qv16385	↓	↓	↓	
387	A bsp	↓	↓	↓	3	↓	1ml qv16384	↓	↓	↓	
388	A bsd	↓	↓	↓	4	↓	↓	↓	↓	↓	
389	mc 46203-1	1	qc26318	V8021btx	5	↓	5mL	↓	↓	<2	
390	mc46225-1	1	qc26310	vmaoph	6	↓	↓	↓	↓	↓	
391	↓ -1ms	1	↓	↓	6	↓	+1mlq	V16384	↓	↓	
392	↓ -1msd	2	↓	↓	7	↓	↓	↓	↓	↓	
393	mc46203-1 ms	1	qc26318	V8021btx	8	↓	↓	↓	↓	↓	
394	↓ -1msd	2	↓	↓	9	↓	↓	↓	↓	↓	
395	A Concal 50	N/A	qc26310	vmaoph	10	↓	1ml qv16384	↓	↓	N/A	
396	mc 46235-2	1	↓	↓	11	↓	5ml	↓	↓	<2	
397	↓ -3	1	↓	↓	12	↓	↓	↓	↓	↓	
398	Concal 50	N/A	↓	↓	13	↓	1ml qv16384	↓	↓	N/A	

6/6/16 cf

GC001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: 216315 Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, ml for water.

Response Factor Report GCWX

Method : C:\msdchem\1\MET...60602vphmaster.M (Chemstation Integrator)
Title : vph - master
Last Update : Thu Jun 02 13:35:01 2016
Response via : Initial Calibration

6/2/16 ae
original curve

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7	2.277	2.234	2.378	2.368	2.132	2.087	2.030	1.921	1.658	2.121 E4	10.90
2) rt7/10	3.117	2.866	3.019	3.031	2.808	2.765	2.722	2.719	2.613	2.851 E4	5.96
3) mtbe	1.308	1.334	1.349	1.380	1.281	1.258	1.198	1.157	1.078	1.260 E4	7.84
4) rt10/13	2.744	2.861	2.870	2.853	2.146	1.883	1.525	1.261	1.003	2.127 E4	34.99
5) benzene	3.802	3.548	3.581	3.605	3.514	3.514	3.475	3.570	3.555	3.574 E4	2.64
6) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
7) rt13/16										0.000	-1.00
8) toluene	3.469	3.521	3.535	3.542	3.458	3.421	3.389	3.487	3.465	3.476 E4	1.48
9) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
10) rt16/20										0.000	-1.00
11) rt20/25	4.962	4.662	3.620	3.605	3.144	3.088	2.964	3.018	2.844	3.545 E4	21.71
12) rt25/29										0.000	-1.00
13) ethylbenzene	3.632	3.502	3.478	3.504	3.421	3.375	3.321	3.415	3.397	3.449 E4	2.65
14) m,p-xylene	3.784	3.598	3.630	3.598	3.517	3.483	3.424	3.514	3.469	3.558 E4	3.06
15) o-xylene	3.875	3.612	3.634	3.568	3.475	3.435	3.424	3.497	3.438	3.551 E4	4.07
16) Decane	4.684	4.871	3.648	3.812	3.185	3.087	2.911	2.837	2.043	3.453 E4	26.22
17) 1,3,5-trimethylbenzene	4.100	3.893	3.757	3.749	3.664	3.640	3.598	3.601	3.390	3.710 E4	5.42
18) 1,2,4-trimethylbenzene	3.811	3.751	3.597	3.645	3.486	3.445	3.406	3.406	3.205	3.528 E4	5.41
19) Butylcyclohexane	5.120	5.089	3.793	3.905	3.346	3.279	3.173	3.176	2.907	3.754 E4	21.99
20) naphthalene	1.098	1.385	1.696	1.888	2.135	2.113	2.031	1.785	1.404	1.726 E4	21.05
21) 2,5-dibromotoluene										0.000	-1.00

Signal #2

23) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
24) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
25) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
26) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
27) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
28) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
29) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
30) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
31) 1,3,5-trimethylbenzene #2											

7.6.1

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          1.905 1.792 1.737 1.748 1.703 1.688 1.644 1.624 1.500   1.704 E4    6.66
32)  1,2,4-trimethylbenzene #2
          1.431 1.322 1.292 1.289 1.254 1.250 1.222 1.209 1.112   1.265 E4    6.90
33)  naphthalene #2
          0.683 0.782 0.889 0.976 1.061 1.060 1.006 0.876 0.683   0.891 E4   16.68
34)  c9-c10 arom as 1,2,4-tmb
          1.432 1.323 1.289 1.288 1.253 1.249 1.221 1.209 1.112   1.264 E4    6.93
35)  2,5-dibromotoluene #2
                                                                  0.000   -1.00
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          wx160602vphmaster.M        Thu Jun 02 13:35:21 2016
```

7.6.1

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6/2/16
aj

Response Factor Report GCWX

Method : C:\msdchem\1\METHODS\wx160602vph.M (Chemstation Integrator)
Title : vph
Last Update : Thu Jun 02 13:45:44 2016
Response via : Initial Calibration

6/2/16 ccq
VPH Curve

Calibration Files
1 =wx77024.D 2 =wx77023.D 3 =wx77022.D 4 =wx77021.D
5 =wx77020.D 6 =wx77019.D 7 =wx77018.D 8 =wx77017.D
9 =wx77016.D =

Compound	1	2	3	4	5	6	7	8	9	Avg	%RSD
1) rt5.5-7					2.366				2.366	2.366 E4	0.00
2) rt7/10					2.366				2.366	2.366 E4	0.00
3) rt10/13					2.366				2.366	2.366 E4	0.00
4) fluorobenzene	2.843	2.798	2.829	2.803	2.803	2.826	2.794	2.870	2.867	2.826 E4	1.03
5) rt13/16										0.000	-1.00
6) 2,3,4-trifluorotoluene	2.409	2.462	2.305	2.247	2.269	2.220	2.199	2.266	2.246	2.292 E4	3.83
7) rt16/20										0.000	-1.00
8) rt20/25					3.584				3.584	3.584 E4	0.00
9) rt25/29										0.000	-1.00
10) Decane					3.584				3.584	3.584 E4	0.00
11) Butylcyclohexane					3.584				3.584	3.584 E4	0.00
12) 2,5-dibromotoluene										0.000	-1.00
Signal #2											
14) mtbe #2	5.014	4.776	4.610	4.537	4.422	4.275	4.100	3.939	3.594	4.363 E3	10.05
15) benzene #2	1.476	1.453	1.445	1.438	1.407	1.403	1.383	1.404	1.376	1.421 E4	2.38
16) fluorobenzene #2	9.835	9.129	9.022	9.017	9.026	9.033	8.913	9.116	8.964	9.117 E3	3.04
17) toluene #2	1.302	1.342	1.300	1.293	1.288	1.276	1.249	1.278	1.250	1.286 E4	2.21
18) 2,3,4-trifluorotoluene #2	6.444	5.849	5.448	5.327	5.303	5.217	5.114	5.272	5.182	5.462 E3	7.81
19) ethylbenzene #2	1.213	1.190	1.161	1.151	1.138	1.130	1.104	1.121	1.093	1.145 E4	3.41
20) m,p-xylene #2	1.466	1.472	1.412	1.413	1.387	1.365	1.311	1.333	1.278	1.382 E4	4.84
21) o-xylene #2	1.235	1.153	1.179	1.183	1.165	1.155	1.131	1.146	1.106	1.161 E4	3.12
22) 1,3,5-trimethylbenzene #2	1.905	1.792	1.737	1.748	1.703	1.688	1.644	1.624	1.500	1.704 E4	6.66
23) 1,2,4-trimethylbenzene #2	1.431	1.322	1.292	1.289	1.254	1.250	1.222	1.209	1.112	1.265 E4	6.90
24) naphthalene #2	0.683	0.782	0.889	0.976	1.061	1.060	1.006	0.876	0.683	0.891 E4	16.68
25) c9-c10 arom as 1,2,4-tmb	1.432	1.323	1.289	1.288	1.253	1.249	1.221	1.209	1.112	1.264 E4	6.93
26) 2,5-dibromotoluene #2										0.000	-1.00

(#) = Out of Range ### Number of calibration levels exceeded format ###

wx160602vph.M Thu Jun 02 13:53:05 2016

7.6.1

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Operator tonyf
Date Acquired 6/1/2016 8:10
Method Reference: wx 160602 VPH master.m
wx 160602 VPH.m

VPH INITIAL CALIBRATION

AREA RESPONSE

Name / FID	wx77024.D 1	wx77023.D 2	wx77022.D 5	wx77021.D 10	wx77020.D 50.00	wx77019.D 100.00	wx77018.D 250.00	wx77017.D 500.00	wx77016.D 1000			
pentane	22767	44675	118886	236774	1066222	2087396	5076127	9607441	16575302			
2-methylpentane	31166	57323	150938	303053	1403769	2764741	6805813	13595417	26128627			
iso-octane	27442	57225	143485	285251	1072962	1883245	3812261	6302927	10034529			
Total Area	81376	159223	413309	825078	3542953	6735383	15694200	29505784	52738458			
Total Concentration ppb	3.00	6	15.00	30.00	150.00	300.00	750.00	1500.00	3000.00	average CF	std dev	%rsd
Calibration Factor	27125	26537	27554	27503	23620	22451	20926	19671	17579	23663	3742	15.82
nonane	49618	93236	181001	360524	1572016	3087753	7408932	15089646	28442696			
Decane	46841	97419	182417	381152	1592389	3086985	7278551	14183677	20430393			
Butylcyclohexane	51203	101787	189639	390458	1673218	3278591	7932011	15882418	29073556			
Total Area	147662	292442	553057	1132134	4837623	9453329	22619494	45155740	77946645			
Total Concentration ppb	3.00	6	15.00	30.00	150.00	300.00	750.00	1500.00	3000.00	avg CF	std dev	%rsd
Calibration Factor	49221	48740	36870	37738	32251	31511	30159	30104	25982	35842	8247	23.01

Area	1000 ppb	50ppb
C5 - C8	23662823	1183141 ✓
C9 - C12	35841849	1792092

edited entire form 07/02/04 jfh
edited 2methylpentane,isooctane 1000ppb each in high std 4/14/04 ae
edited 050710 vphcal10

6/2/16
OK

6/2/2016 1:36 PM C:\msdchem\custrpt\VPHCAL9.CRT Page 1 of 1

Data File Name	wx77025.D
Operator	tonyf
Date Acquired	6/2/2016 13:06
Method File	wx77025.D
Sample Name	icv3782-50,gv16404
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	1038789	C5-C8 area				
2-methylpentane	1351506	3425808	22839	23663	-3.48	
iso-octane	1035513					
rt20/25	1472906					
Decane	1429444	c9-c12 area				
Butylcyclohexane	1581154	4483505	29890	35842	-16.61	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

6/2/16 g

7.6.1

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Data File Name	wx77035a.D
Operator	tonyf
Date Acquired	6/6/2016 7:56
Method File	wx77035a.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	936205	C5-C8 area				
2-methylpentane	1254220	3238369	21589	23663	-8.76	
iso-octane	1047944					
rt20/25	1459247					
Decane	1409557	c9-c12 area				
Butylcyclohexane	1557696	4426500	29510	35842	-17.67	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

aef

Data File Name	wx77045A.D
Operator	tonyf
Date Acquired	6/6/2016 14:10
Method File	wx77045A.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response	FID	Continuing CF	Initial CF	percent difference	out of criteria
pentane	915983	C5-C8 area				
2-methylpentane	1245310	3215982	21440	23663	-9.39	
iso-octane	1054689					
rt20/25	1424999					
Decane	1383767	c9-c12 area				
Butylcyclohexane	1532431	4341196	28941	35842	-19.25	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

i/6/16 ag

7.6.1

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Data File Name	wx77048.D
Operator	tonyf
Date Acquired	6/6/2016 16:01
Method File	wx77048.D
Sample Name	cc3784-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response	FID	Continuing CF	Initial CF	percent difference	out of criteria
pentane	846526	C5-C8 area				
2-methylpentane	1215164	3019264	20128	23663	-14.94	
iso-octane	957574					
rt20/25	1423750					
Decane	1367731	c9-c12 area				
Butylcyclohexane	1516706	4308186	28721	35842	-19.87	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314.aef

aef

ACCUTEST LABORATORIES

Instrument: GC 19 (WX)

VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/20/16 Analyst Signature: aof

Standards Data

Lot #	Description	Conc
Vmaph	gc26383 gwx	3796
Mb		

Standards Data

Lot #	Description	Conc
gw16426	cc/bsp 250ug/L	7/16/16
gw16427	Sum ↓	↓
gw16401	50ug/L std	7/1/16

Column: mtx 502.2
Method: WXVPH1
GC Seq. File: WX160620.S
Method Files:
WX160620VPA cc 3792-50

AS Seq. File: 1-12-23-4 5-11

Date of ICAL: 6-2-16 ICAL Verified: Seq. Verification: 11-13 ay

Data File	Sample ID	Bot No.	Work Group	Test	ALS #	*MTX	Samp Amt.	% SOL	Dil. Fact.	pH	Comments
WX72,168	Concl50	N/A	gc26383	Vmaph	1	W	5ml gw16401	N/A	N/A	N/A	
69	mb	↓			2		5ml gw16427			↓	
70	bsp				3		5ml gw16426				
71	bsd				4		↓				
72	mc46423-1	1			5		5ml			L2	
73	-2	1			6						
74	-3	1			7						Quant PR 1:100
75	-4	1			8						confirm CO?
76	-5	1			9				ND		Tetrachloroethene NOT confirmed rerun 1:50
77	-6	1			10						
78	-7	1			11					↓	confirm CO?
~~79~~	~~-7ms~~	~~1~~			~~11~~		~~+1ml gw16426~~			N/A	
~~80~~	~~-7msD~~	~~2~~	See Quance Appended		~~12~~	~~6/20~~	~~16~~				
~~81~~	~~Concl50~~	~~N/A~~			~~13~~	~~cy~~	~~5ml gw16426~~				
79	mc46423-4	5			12		5ml				
80	-3	5			13		5ml of 0.5ml	5ml	1:100	L2	
81	-6	2			14		↓ 1.0ml	↓	1:50		
82	-7	2			15		5ml		N/A		
83	-7ms	2			15		+1ml gw16426			L2	
84	-7msD	5			16		↓	↓		L2	
85	Concl50	N/A			17		5ml gw16426			N/A	
86	↓ ↓	↓			1		5ml gw16401			N/A	
											6/20/16 cy

GC001-05 Date: 12/02/08 Dilution Solvent:_____ Lot Number:_____ Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil - method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.

SGS ACCUTEST MC46423

Data File Name	wx77168.D
Operator	tonyf
Date Acquired	6/20/2016 7:19
Method File	wx77168.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	1063492	C5-C8 area				
2-methylpentane	1369523	3523399	23489	23663	-0.73	
iso-octane	1090385					
rt20/25	1486488					
Decane	1453556	c9-c12 area				
Butylcyclohexane	1614206	4554250	30362	35842	-15.29	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

7.6.2

7

6/20/2016 7:53 AM

C:\msdchem\custrpt\VPHCHK.CRT

SGS ACCUTEST MC46423

Data File Name	wx77174.D	
Operator	tonyf	
Date Acquired	6/20/2016 11:07	
Method File	WXVPH1.M	
Sample Name	mc46423-3,w,vmavph,00	
Enter Sample Multiplier	1	Enter Dilution mult. (E8)
Meoh Volume	#REF!	100.00
Matrix	water	from wx77180

Name	Enter Dilution Amount	From dilution (Y)	
FID			
rt5.5-7	1.02		1.02
rt7/10	1.67		1.67
rt10/13	164.30		164.30
rt20/25	631.12	y	63112.00
rt25/29	0.00		0.00
		%recovery	
fluorobenzene	50.04	100.09	
2,3,4-trifluorotoluene	54.22	108.43	

C5 - C8 HYDROCARBONS UNCORRECTED		CORRECTED VALUE
167.00	-99.90	**67.10**

C9 - C12 HYDROCARBONS UNCORRECTED		
63112.00	-62358.73	**753.27**

PID

SIGNAL #2	Enter Dilution Amount	corrected	From dilution? (Y)
mtbe #2	0.00	0.00	
benzene #2	3.44	3.44	
toluene #2	96.46	96.46	
ethylbenzene #2	152.37	15237.00	y
m,p-xylene #2	442.15	44215.00	y
o-xylene #2	27.95	2795.00	y
1,3,5-trimethylbenzen	0.00	0.00	
1,2,4-trimethylbenzen	1.22	1.22	
naphthalene #2	0.00	0.00	
c9-c10 arom as 1,2,4-	111.73	111.73	
			%recovery
fluorobenzene #2	49.70		99.39
2,3,4-trifluorotoluene :	52.90		105.81

created 090205jfh for aef
020608 added rt25/29 aef

Data File Name	wx77177.D	
Operator	tonyf	
Date Acquired	6/20/2016 12:58	
Method File	WXVPH1.M	
Sample Name	mc46423-6,w,vmavph,00	
Enter Sample Multiplier	1	Enter Dilution mult. (E8)
Meoh Volume	#REF!	50.00
Matrix	water	from wx771181

Name	Enter Dilution Amount	From dilution (Y)	
FID			
rt5.5-7	2.16		2.16
rt7/10	2.55		2.55
rt10/13	22.54		22.54
rt20/25	389.37	y	19468.50
rt25/29	0.00		0.00
		%recovery	
fluorobenzene	47.98	95.96	
2,3,4-trifluorotoluene	48.01	96.02	

C5 - C8 HYDROCARBONS UNCORRECTED		CORRECTED VALUE
27.25 ✓	-0.97	**26.28**
C9 - C12 HYDROCARBONS UNCORRECTED		
19468.50 ✓	-19403.15	**65.35**

PID

SIGNAL #2	Enter Dilution Amount	corrected	From dilution? (Y)
mtbe #2	0.00	0.00	
benzene #2	0.29	0.29	
toluene #2	0.68	0.68	
ethylbenzene #2	95.12	4756.00	y
m,p-xylene #2	272.95	13647.50	y
o-xylene #2	899.16	899.16	
1,3,5-trimethylbenzen	0.00	0.00	
1,2,4-trimethylbenzen	6.31	6.31	
naphthalene #2	3.26	3.26	
c9-c10 arom as 1,2,4-	100.49	100.49 ✓	
			%recovery
fluorobenzene #2	47.21		94.43
2,3,4-trifluorotoluene i	46.55		93.10

created 090205jfh for aef
020608 added rt25/29 aef

6/20/2016 4:49 PM

C:\msdchem\custrpt\VPHRPT1.CRT

Data File Name	wx77185.D
Operator	tonyf
Date Acquired	6/20/2016 17:54
Method File	wx77185.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	1013964	C5-C8 area				
2-methylpentane	1301513	3324524	22163	23663	-6.34	
iso-octane	1009047					
rt20/25	1314863					
Decane	1253561	c9-c12 area				
Butylcyclohexane	1402072	3970496	26470	35842	-26.15	* Reshot

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

7.6.2

7

6/21/2016 6:32 AM

C:\MSDCHEM\CUSTRPT\VPHCHK.CRT

SGS ACCUTEST MC46423

Data File Name	wx77186.D
Operator	tonyf
Date Acquired	6/21/2016 7:11
Method File	wx77186.D
Sample Name	cc3782-50
Sample Multiplier	1.00
Meoh Volume	#REF!
Matrix	water

Name	continuing response		Continuing CF	Initial CF	percent difference	out of criteria
FID						
pentane	943758	C5-C8 area				
2-methylpentane	1292894	3239257	21595	23663	-8.74	
iso-octane	1002604					
rt20/25	1471824					
Decane	1413200	c9-c12 area				
Butylcyclohexane	1580987	4466011	29773	35842	-16.93	

080107 edited initial cf dibromo. aef
081507 edited deleted dibromo. aef
edited 011314,aef

7.6.2

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6/21/2016 8:30 AM C:\msdchem\custrpt\VPHCHK.CRT Page 1 of 1

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: MC46423
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
OP47988-MB	DE14764.D	1	06/30/16	TA	06/27/16	OP47988	GDE820

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

MC46423-1A, MC46423-2A, MC46423-3A, MC46423-4A, MC46423-5A, MC46423-6A, MC46423-7A

CAS No.	Compound	Result	RL	MDL	Units	Q
	C11-C22 Aromatics (Unadj.)	34.0	100	29	ug/l	J
	C9-C18 Aliphatics	ND	100	17	ug/l	
	C19-C36 Aliphatics	ND	100	27	ug/l	
	C11-C22 Aromatics	34.0	100	29	ug/l	J

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	62%	40-140%
321-60-8	2-Fluorobiphenyl	66%	40-140%
3386-33-2	1-Chlorooctadecane	46%	40-140%
580-13-2	2-Bromonaphthalene	72%	40-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: MC46423
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
OP47988-BS	DE14762.D	1	06/30/16	TA	06/27/16	OP47988	GDE820
OP47988-BSD	DE14763.D	1	06/30/16	TA	06/27/16	OP47988	GDE820

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

MC46423-1A, MC46423-2A, MC46423-3A, MC46423-4A, MC46423-5A, MC46423-6A, MC46423-7A

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	C11-C22 Aromatics (Unadj.)	800	696	87	785	98	12	40-140/25
	C9-C18 Aliphatics	300	186	62	183	61	2	40-140/25
	C19-C36 Aliphatics	400	297	74	299	75	1	40-140/25

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
84-15-1	o-Terphenyl	76%	83%	40-140%
321-60-8	2-Fluorobiphenyl	87%	94%	40-140%
3386-33-2	1-Chlorooctadecane	71%	63%	40-140%
580-13-2	2-Bromonaphthalene	87%	97%	40-140%

Sample	Compound	Col #1	Col #2	Breakthrough	Limit
OP47988-BS	2-Methylnaphthalene	30.5	ND	0.0%	5.0
OP47988-BS	Naphthalene	29.4	ND	0.0%	5.0
OP47988-BSD	2-Methylnaphthalene	32.8	ND	0.0%	5.0
OP47988-BSD	Naphthalene	31.3	ND	0.0%	5.0

* = Outside of Control Limits.

Semivolatile Surrogate Recovery Summary

Job Number: MC46423
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]
MC46423-1A	DE14765.D	45	70	43	77
MC46423-2A	DE14766.D	63	71	63	78
MC46423-3A	DE14767.D	51	72	60	78
MC46423-4A	DE14768.D	61	67	64	74
MC46423-5A	DE14769.D	42	67	43	74
MC46423-6A	DE14770.D	51	64	48	67
MC46423-7A	DE14771.D	60	67	65	74
OP47988-BS	DE14762.D	76	87	71	87
OP47988-BSD	DE14763.D	83	94	63	97
OP47988-MB	DE14764.D	62	66	46	72

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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Check Std:	GDE820-CC815	**Injection Date:**	06/30/16
Lab File ID:	DE14761.D	**Injection Time:**	12:05
Instrument ID:	GCDE	**Method:**	MADEP EPH REV 1.1

	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
Check Std	9.76	6.50	11.22	7.22

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	S1 [a] RT	S2 [a] RT	S3 [b] RT	S4 [a] RT
OP47988-BS	DE14762.D	06/30/16	13:12	9.76	6.50	11.22	7.22
OP47988-BSD	DE14763.D	06/30/16	13:40	9.75	6.50	11.21	7.22
OP47988-MB	DE14764.D	06/30/16	14:07	9.75	6.50	11.21	7.22
MC46423-1A	DE14765.D	06/30/16	14:35	9.75	6.50	11.21	7.22
MC46423-2A	DE14766.D	06/30/16	15:03	9.75	6.50	11.21	7.22
MC46423-3A	DE14767.D	06/30/16	15:30	9.75	6.50	11.21	7.22
MC46423-4A	DE14768.D	06/30/16	15:58	9.75	6.50	11.21	7.22
MC46423-5A	DE14769.D	06/30/16	16:25	9.75	6.50	11.21	7.22
MC46423-6A	DE14770.D	06/30/16	16:53	9.75	6.50	11.21	7.22
MC46423-7A	DE14771.D	06/30/16	17:21	9.75	6.50	11.21	7.22
GDE820-ECC815	DE14772.D	06/30/16	17:48	9.75	6.50	11.22	7.22

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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE815-ICC815
Lab FileID: DE14670.D

Response Factor Report GCDE

Method : C:\msdchem\1\METHODS\EPH160622W.M (RTE Integrator)
Title : BMAEPH-working method
Last Update : Thu Jun 23 08:10:23 2016
Response via : Initial Calibration

Calibration Files
1 =de14672.d 2 =de14671.d 3 =de14670.d 4 =de14669.d
5 =de14668.d 6 =de14667.d 7 =de14666.d

Compound	1	2	3	4	5	6	7	Avg	%RSD
1)h c11-c22 Aromatics	1.248							1.248 E5	0.00
2) naphthalene	1.196	1.198	1.325	1.381	1.228	1.320	1.139	1.255 E5	6.94
3) 2-methylnaphthale	1.187	1.176	1.290	1.379	1.294	1.400	1.104	1.261 E5	8.71
4)s 2-fluorobiphenyl	1.078	1.073	1.184	1.235	1.154	1.217	1.071	1.145 E5	6.17
5) acenaphthylene	1.178	1.175	1.293	1.350	1.263	1.369	1.229	1.265 E5	6.13
6)s 2-bromonaphthalen	7.359	7.309	7.967	8.112	6.757	6.785	5.902	7.170 E4	10.66
7) acenaphthene	1.232	1.232	1.368	1.455	1.382	1.590	1.491	1.393 E5	9.49
8) fluorene	1.204	1.203	1.323	1.374	1.286	1.408	1.195	1.285 E5	6.82
9) phenanthrene	1.205	1.209	1.322	1.340	1.213	1.310	1.146	1.249 E5	5.90
10) anthracene	1.139	1.149	1.248	1.358	1.369	1.605	1.443	1.330 E5	12.54
11)s o-terphenyl	1.206	1.210	1.334	1.378	1.314	1.481	1.338	1.323 E5	7.23
12) fluoranthene	1.171	1.189	1.305	1.339	1.270	1.426	1.278	1.283 E5	6.81
13) pyrene	1.197	1.220	1.338	1.367	1.291	1.461	1.319	1.313 E5	6.83
14) benzo(a)anthracen	1.115	1.151	1.257	1.278	1.179	1.350	1.175	1.215 E5	6.80
15) chrysene	1.124	1.161	1.262	1.287	1.247	1.454	1.400	1.276 E5	9.31
16) benzo(B)fluoranth	1.141	1.220	1.255	1.233	1.170	1.243	1.025	1.184 E5	6.86
17) benzo(k)fluoranth	1.087	1.097	1.261	1.257	1.225	1.601	1.436	1.280 E5	14.33
18) benzo(a)pyrene	1.063	1.100	1.194	1.210	1.141	1.332	1.218	1.180 E5	7.51
19) indeno(1,2,3-cd)p	1.227	1.120	1.194	1.206	1.095	1.237	1.114	1.170 E5	5.05
20) dibenzo(ah)anthra	0.955	1.050	1.160	1.179	1.130	1.276	1.181	1.133 E5	9.13
21) benzo(ghi)perylen	1.085	1.070	1.154	1.169	1.082	1.233	1.150	1.135 E5	5.17
22)s bht								0.000	-1.00
23) bht								0.000	-1.00

Signal #2

25)h c-9	8.431							8.431 E4	0.00
26)h c-10	8.431							8.431 E4	0.00
27) naphthalene #2	0.840	0.850	0.918	0.954	0.925	1.002	0.874	0.909 E5	6.41
28) c-12	8.431							8.431 E4	0.00
29) 2-methylnaphthale	8.328	8.454	9.130	9.516	9.247	9.776	8.504	8.994 E4	6.33
30) c-14	8.431							8.431 E4	0.00
31) c-16	8.431							8.431 E4	0.00
32) c-18	8.431							8.431 E4	0.00
33) c-19	7.782							7.782 E4	0.00
34) c-20	7.782							7.782 E4	0.00
35)s 1-chlorooctadecan	5.973	6.056	6.546	6.812	6.649	7.158	6.412	6.515 E4	6.38
36) c-22	7.782							7.782 E4	0.00
37) c-24	7.782							7.782 E4	0.00
38) c-26	7.782							7.782 E4	0.00
39) c-28	7.782							7.782 E4	0.00
40)h c-30	7.782							7.782 E4	0.00
41)h c-36	7.782							7.782 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: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico

Sample: GDE815-ICC815
Lab FileID: DE14670.D

(#) = Out of Range

EPH160622W.M Thu Jun 23 08:18:25 2016

Initial Calibration Verification

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE815-ICV815
Lab FileID: DE14673.D

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 22 Jun 2016   9:32 pm
Operator  : thomasa
Sample    : icv815-50
Misc      : op47862,gde815,1000,,,2,,w
ALS Vial  : 116   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:13:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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	125.536	118.400 E3	5.7	89	0.00
3		2-methylnaphthalene	126.144	114.132 E3	9.5	88	0.00
4	s	2-fluorobiphenyl	114.477	106.641 E3	6.8	90	0.00
5		acenaphthylene	126.525	114.925 E3	9.2	89	0.00
6	s	2-bromonaphthalene	71.704	69.891 E3	2.5	88	0.00
7		acenaphthene	139.287	119.150 E3	14.5	87	0.00
8		fluorene	128.466	116.386 E3	9.4	88	0.00
9		phenanthrene	124.916	114.194 E3	8.6	86	0.00
10		anthracene	133.036	117.554 E3	11.6	94	0.00
11	s	o-terphenyl	132.308	116.369 E3	12.0	87	0.00
12		fluoranthene	128.264	116.865 E3	8.9	90	0.00
13		pyrene	131.341	122.669 E3	6.6	92	0.00
14		benzo(a)anthracene	121.482	111.862 E3	7.9	89	0.00
15		chrysene	127.650	108.382 E3	15.1	86	0.00
16		benzo(B)fluoranthene	118.397	113.722 E3	3.9	91	0.00
17		benzo(k)fluoranthene	128.030	105.933 E3	17.3	84	0.00
18		benzo(a)pyrene	117.959	98.642 E3	16.4	83	0.00
19		indeno(1,2,3-cd)pyrene	117.046	103.786 E3	11.3	87	0.00
20		dibenzo(ah)anthracene	113.307	103.349 E3	8.8	89	0.00
21		benzo(ghi)perylene	113.475	102.782 E3	9.4	89	0.00

Signal #2

25	h	c-9	84.306	83.905 E3	0.5	0#	0.00
26	h	c-10	84.306	85.812 E3	-1.8	0#	0.00
27		naphthalene #2	90.911	92.685 E3	-2.0	101	0.00
28		c-12	84.306	84.160 E3	0.2	0#	0.00
29		2-methylnaphthalene #2	89.937	91.148 E3	-1.3	100	0.00
30		c-14	84.306	83.295 E3	1.2	0#	0.00
31		c-16	84.306	82.055 E3	2.7	0#	0.00

Initial Calibration Verification

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE815-ICV815
Lab FileID: DE14673.D

32		c-18	84.306	80.423	E3	4.6	0#	0.00
33		c-19	77.824	79.025	E3	-1.5	0#	0.00
34		c-20	77.824	78.089	E3	-0.3	0#	0.00
35	s	1-chlorooctadecane	65.153	76.577	E3	-17.5	117	0.00
36		c-22	77.824	78.551	E3	-0.9	0#	0.00
37		c-24	77.824	77.444	E3	0.5	0#	0.00
38		c-26	77.824	75.126	E3	3.5	0#	0.00
39		c-28	77.824	73.682	E3	5.3	0#	0.00
40	h	c-30	77.824	72.107	E3	7.3	0#	0.00
41	h	c-36	77.824	64.762	E3	16.8	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	124.757	0.000	E3	100.0#	0#	-5.10#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

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

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

EPH160622W.M Thu Jun 23 08:18:21 2016

8.5.2

8

Continuing Calibration Summary

Job Number: MC46423 **Sample:** GDE820-CC815
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14761.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 30 Jun 2016  12:05 pm
Operator  : thomasa
Sample    : cc815-50,gde820
Misc      : op47862,gde820,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:09:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	125.536	130.354 E3	-3.8	98	0.00
3		2-methylnaphthalene	126.144	130.864 E3	-3.7	101	0.00
4	s	2-fluorobiphenyl	114.477	116.574 E3	-1.8	98	0.00
5		acenaphthylene	126.525	128.914 E3	-1.9	100	0.00
6	s	2-bromonaphthalene	71.704	79.001 E3	-10.2	99	0.00
7		acenaphthene	139.287	137.625 E3	1.2	101	0.00
8		fluorene	128.466	130.263 E3	-1.4	98	0.00
9		phenanthrene	124.916	130.178 E3	-4.2	98	0.00
10		anthracene	133.036	127.624 E3	4.1	102	0.00
11	s	o-terphenyl	132.308	131.447 E3	0.7	99	0.00
12		fluoranthene	128.264	128.763 E3	-0.4	99	0.00
13		pyrene	131.341	131.985 E3	-0.5	99	0.00
14		benzo(a)anthracene	121.482	125.470 E3	-3.3	100	0.00
15		chrysene	127.650	125.808 E3	1.4	100	0.00
16		benzo(B)fluoranthene	118.397	129.073 E3	-9.0	103	0.00
17		benzo(k)fluoranthene	128.030	123.915 E3	3.2	98	0.00
18		benzo(a)pyrene	117.959	120.413 E3	-2.1	101	0.00
19		indeno(1,2,3-cd)pyrene	117.046	123.108 E3	-5.2	103	0.01
20		dibenzo(ah)anthracene	113.307	117.317 E3	-3.5	101	0.02
21		benzo(ghi)perylene	113.475	117.777 E3	-3.8	102	0.02
Signal #2							
25	h	c-9	84.306	92.649 E3	-9.9	0#	0.00
26	h	c-10	84.306	93.483 E3	-10.9	0#	0.00
27		naphthalene #2	90.911	99.777 E3	-9.8	109	0.00
28		c-12	84.306	92.192 E3	-9.4	0#	0.00
29		2-methylnaphthalene #2	89.937	98.637 E3	-9.7	108	0.00
30		c-14	84.306	92.056 E3	-9.2	0#	0.00
31		c-16	84.306	90.877 E3	-7.8	0#	0.00

Continuing Calibration Summary

Job Number: MC46423 **Sample:** GDE820-CC815
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14761.D
Project: BMSMC, Building 5 Area, Puerto Rico

32		c-18	84.306	90.472	E3	-7.3	0#	0.00
33		c-19	77.824	90.652	E3	-16.5	0#	0.00
34		c-20	77.824	87.548	E3	-12.5	0#	0.00
35	s	1-chlorooctadecane	65.153	71.487	E3	-9.7	109	0.00
36		c-22	77.824	87.170	E3	-12.0	0#	0.00
37		c-24	77.824	82.772	E3	-6.4	0#	0.00
38		c-26	77.824	87.725	E3	-12.7	0#	0.00
39		c-28	77.824	83.862	E3	-7.8	0#	0.00
40	h	c-30	77.824	86.770	E3	-11.5	0#	0.00
41	h	c-36	77.824	76.137	E3	2.2	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	124.757	0.000	E3	100.0#	0#	-5.10#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

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

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

EPH160630W.M Fri Jul 01 08:18:30 2016

8.5.3

8

Continuing Calibration Summary

Job Number: MC46423 **Sample:** GDE820-ECC815
Account: AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14772.D
Project: BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 30 Jun 2016   5:48 pm
Operator  : thomasa
Sample    : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc      : op47862,gde820,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:02:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	125.536	99.191 E3	21.0	75#	0.00
3		2-methylnaphthalene	126.144	101.128 E3	19.8	78	0.00
4	s	2-fluorobiphenyl	114.477	91.567 E3	20.0	77	0.00
5		acenaphthylene	126.525	101.769 E3	19.6	79	0.00
6	s	2-bromonaphthalene	71.704	62.226 E3	13.2	78	0.00
7		acenaphthene	139.287	108.835 E3	21.9	80	0.00
8		fluorene	128.466	105.416 E3	17.9	80	0.00
9		phenanthrene	124.916	105.206 E3	15.8	80	0.00
10		anthracene	133.036	103.692 E3	22.1	83	0.00
11	s	o-terphenyl	132.308	106.609 E3	19.4	80	0.00
12		fluoranthene	128.264	105.055 E3	18.1	80	0.00
13		pyrene	131.341	107.404 E3	18.2	80	0.00
14		benzo(a)anthracene	121.482	100.307 E3	17.4	80	0.00
15		chrysene	127.650	103.072 E3	19.3	82	0.00
16		benzo(B)fluoranthene	118.397	107.659 E3	9.1	86	0.00
17		benzo(k)fluoranthene	128.030	98.732 E3	22.9	78	0.00
18		benzo(a)pyrene	117.959	98.767 E3	16.3	83	0.00
19		indeno(1,2,3-cd)pyrene	117.046	103.927 E3	11.2	87	0.00
20		dibenzo(ah)anthracene	113.307	97.909 E3	13.6	84	0.00
21		benzo(ghi)perylene	113.475	99.922 E3	11.9	87	0.00
Signal #2							
25	h	c-9	84.306	85.986 E3	-2.0	0#	0.00
26	h	c-10	84.306	86.841 E3	-3.0	0#	0.00
27		naphthalene #2	90.911	92.449 E3	-1.7	101	0.00
28		c-12	84.306	85.811 E3	-1.8	0#	0.00
29		2-methylnaphthalene #2	89.937	92.189 E3	-2.5	101	0.00
30		c-14	84.306	85.393 E3	-1.3	0#	0.00
31		c-16	84.306	84.885 E3	-0.7	0#	0.00

Continuing Calibration Summary

Job Number: MC46423
Account: AMANYWP Anderson Mulholland and Assoc.
Project: BMSMC, Building 5 Area, Puerto Rico
Sample: GDE820-ECC815
Lab FileID: DE14772.D

32		c-18	84.306	84.827	E3	-0.6	0#	0.00
33		c-19	77.824	84.447	E3	-8.5	0#	0.00
34		c-20	77.824	82.775	E3	-6.4	0#	0.00
35	s	1-chlorooctadecane	65.153	67.518	E3	-3.6	103	0.00
36		c-22	77.824	82.836	E3	-6.4	0#	0.00
37		c-24	77.824	76.814	E3	1.3	0#	0.00
38		c-26	77.824	82.395	E3	-5.9	0#	0.00
39		c-28	77.824	79.380	E3	-2.0	0#	0.00
40	h	c-30	77.824	79.353	E3	-2.0	0#	0.00
41	h	c-36	77.824	72.171	E3	7.3	0#	0.00

Evaluate Continuing Calibration Report - Not Founds

1	h	c11-c22 Aromatics (Unadj.)	124.757	0.000	E3	100.0#	0#	-5.10#
22	s	bht	0.000	0.000		0.0	0#	-20.00#
23		bht	0.000	0.000		0.0	0#	-20.00#

Signal #2

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

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

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8.5.4

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14765.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 2:35 pm
Operator : thomasa
Sample : mc46423-1a,op47988
Misc : op47988,gde820,950,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 15:00:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1592520	13.911 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 69.56%#	
6) s 2-bromonaphthalene	7.217	1108893	15.465 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 77.33%#	
11) s o-terphenyl	9.752	1179212	8.913 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 44.56%#	
35) s 1-chlorooctadecane	11.210	565488	8.679 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 43.40%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	1965590	15.755 µg/mlm
10) anthracene	9.180	34542	0.260 µg/ml
25) h c-9	2.647	824738	9.783 µg/mlm
41) h c-36	16.983	1214579	15.607 µg/mlm

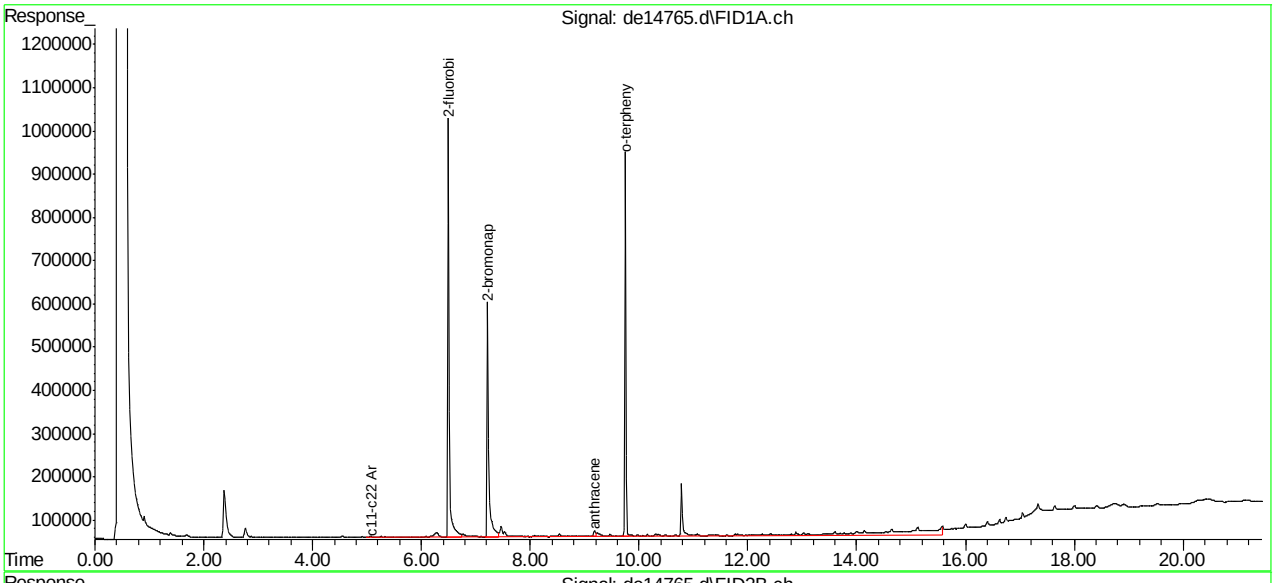
(f)=RT Delta > 1/2 Window (m)=manual int.

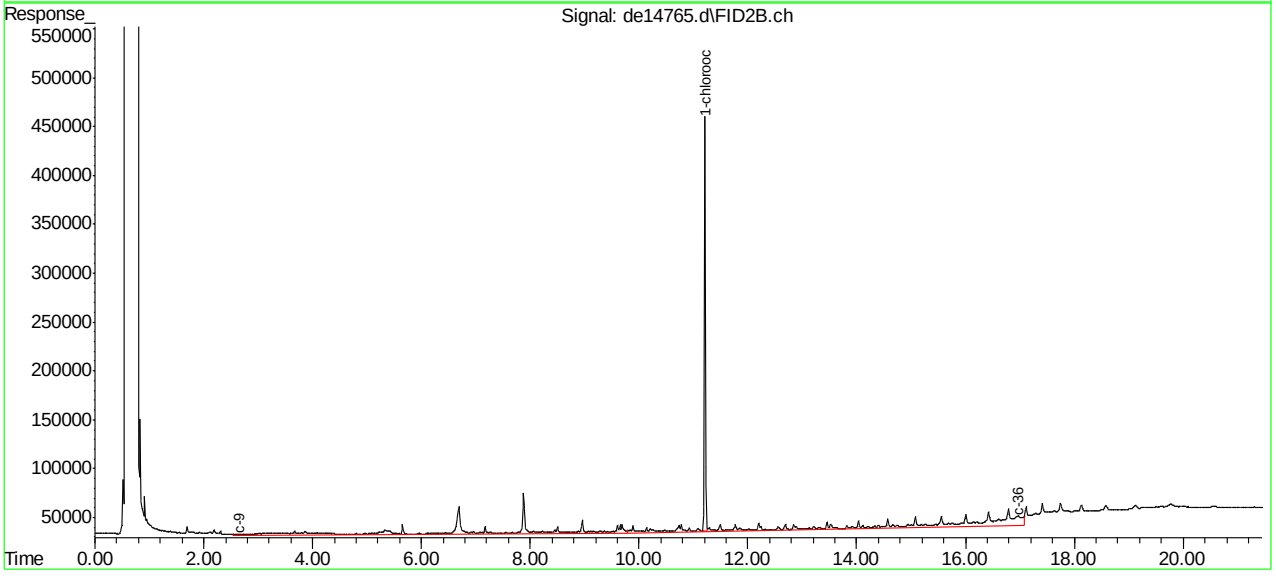
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14765.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 2:35 pm
Operator : thomasa
Sample : mc46423-1a,op47988
Misc : op47988,gde820,950,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

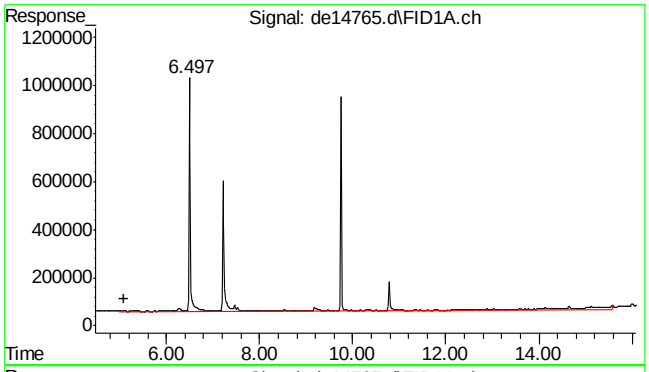
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 15:00:03 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



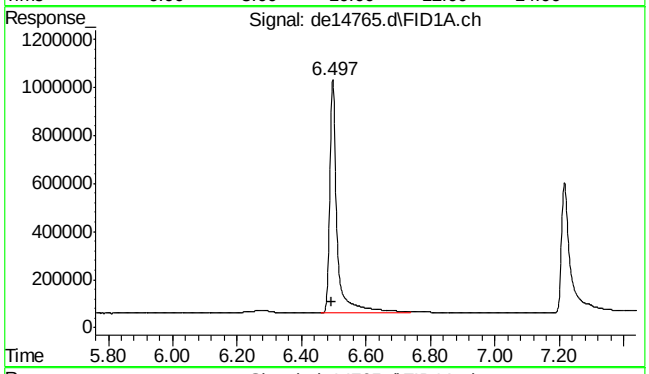


EPH160630W.M Fri Jul 01 08:19:37 2016 Page: 2



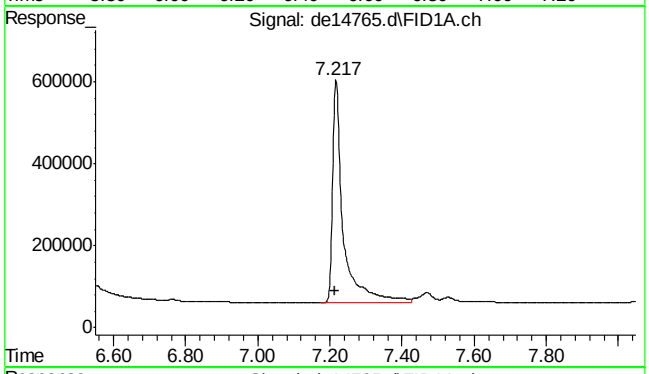
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 1965590
Conc: 15.76 µg/ml m



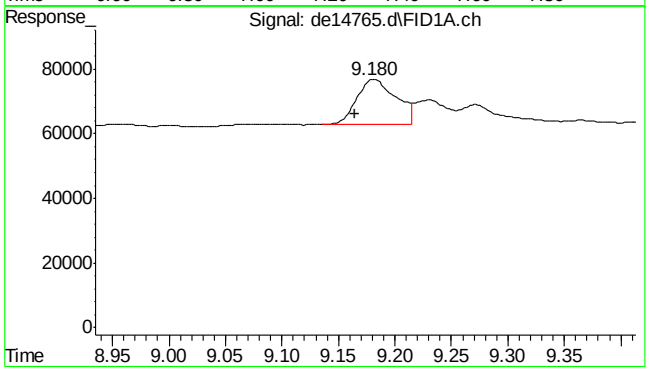
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1592520
Conc: 13.91 µg/ml



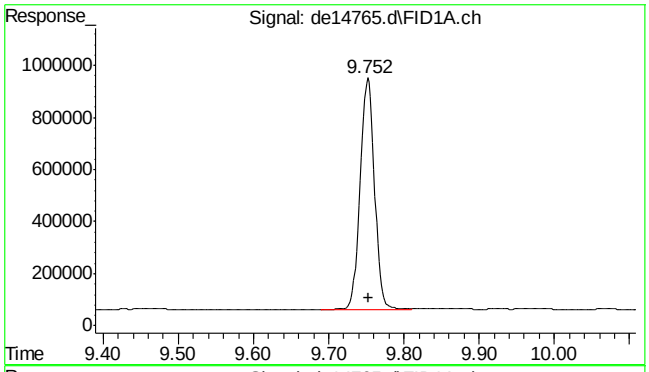
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1108893
Conc: 15.46 µg/ml



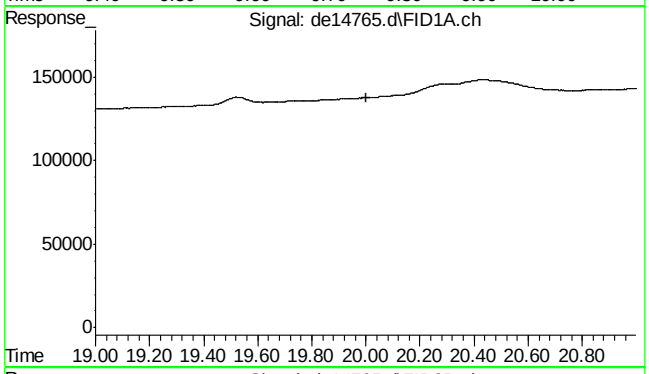
#10 anthracene

R.T.: 9.180 min
Delta R.T.: 0.015 min
Response: 34542
Conc: 0.26 µg/ml



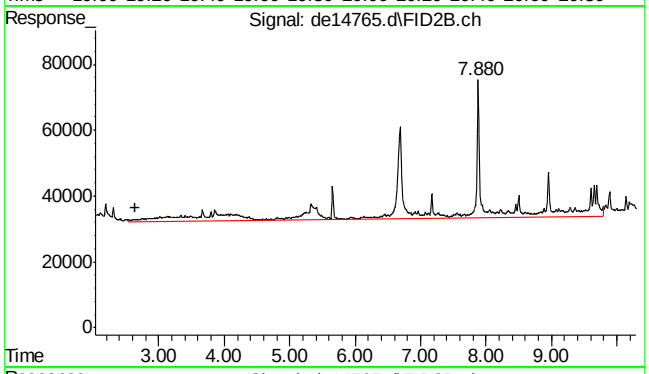
#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: -0.002 min
Response: 1179212
Conc: 8.91 µg/ml



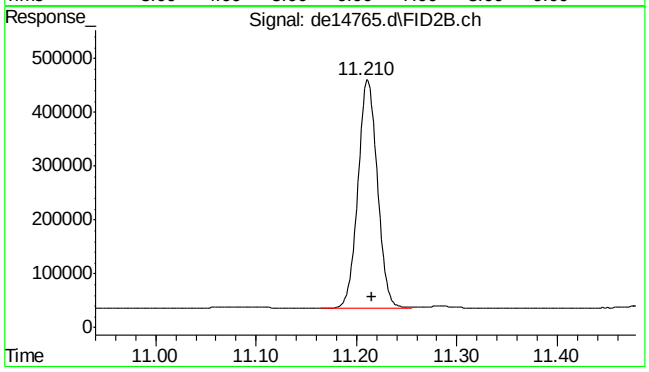
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

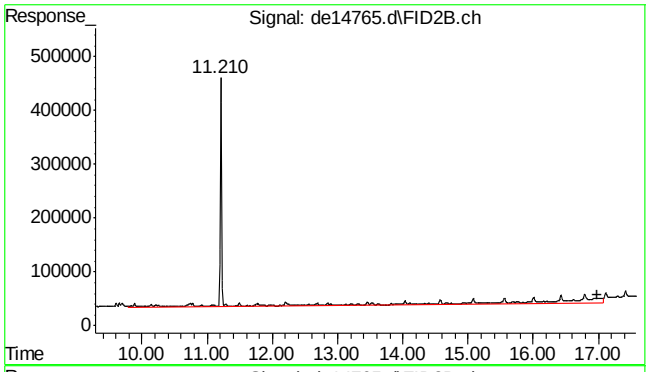
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 824738
Conc: 9.78 µg/ml m



#35 1-chlorooctadecane

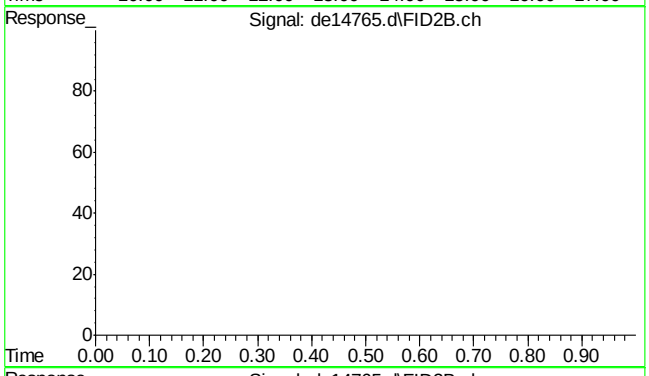
R.T.: 11.210 min
Delta R.T.: -0.005 min
Response: 565488
Conc: 8.68 µg/ml

SGS ACCUTEST MC46423



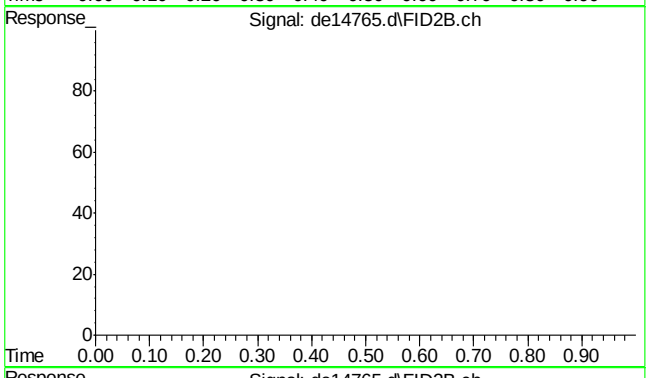
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1214579
Conc: 15.61 µg/ml m



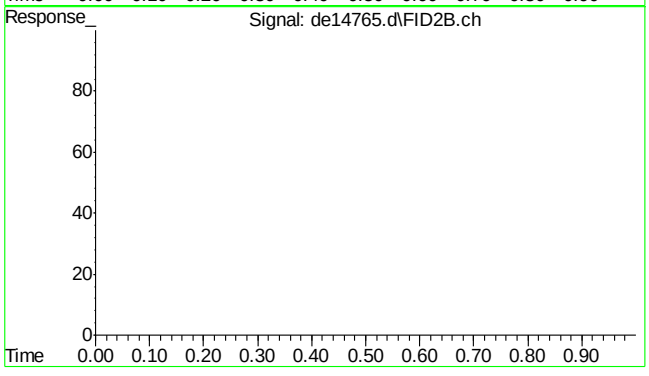
#42 bht

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



#43 bht

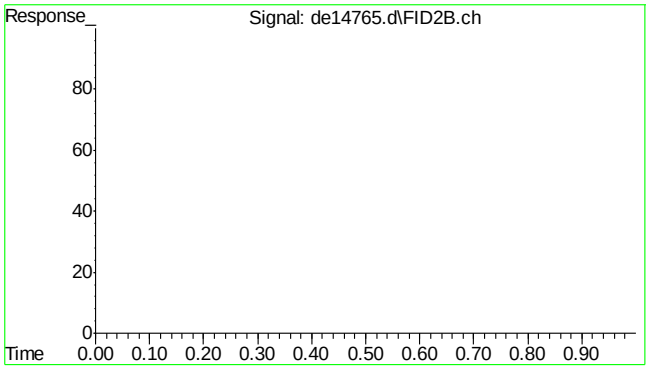
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

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

SGS ACCUTEST MC46423



#45 bht

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

9.1.1

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14766.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:03 pm
Operator : thomasa
Sample : mc46423-2a,op47988
Misc : op47988,gde820,920,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 15:31:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1622510	14.173 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 70.86%#	
6) s 2-bromonaphthalene	7.217	1121491	15.641 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 78.20%#	
11) s o-terphenyl	9.750	1672052	12.638 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 63.19%#	
35) s 1-chlorooctadecane	11.212	815547	12.517 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 62.59%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	1964769	15.749 µg/mlm
25) h c-9	2.647	879411	10.431 µg/mlm
41) h c-36	16.983	1462997	18.799 µg/mlm

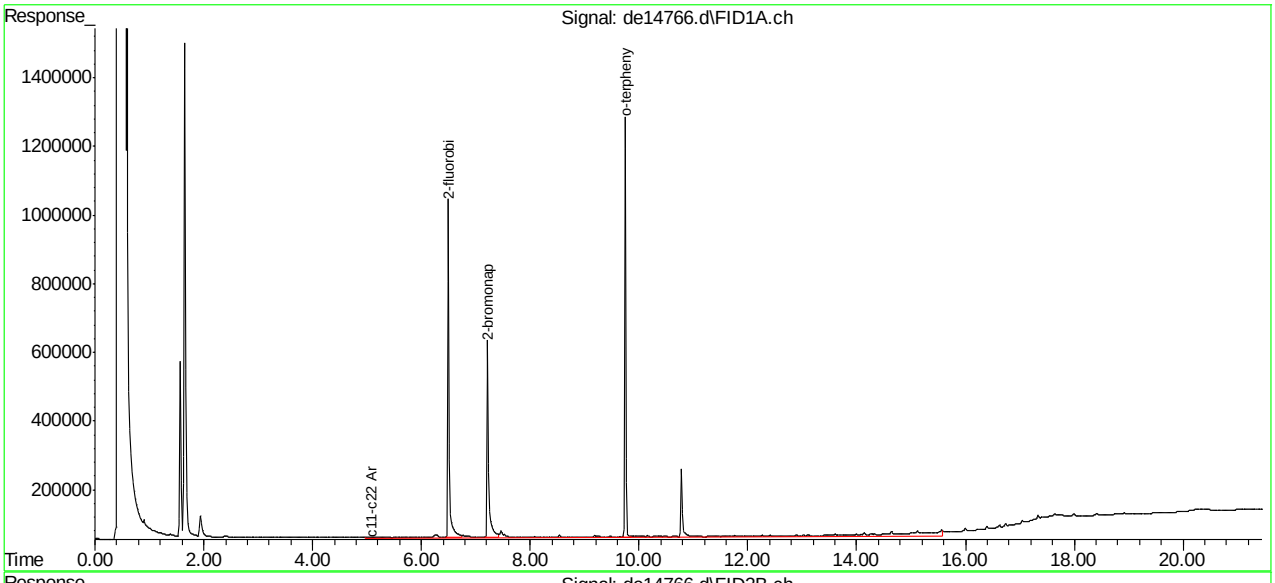
(f)=RT Delta > 1/2 Window (m)=manual int.

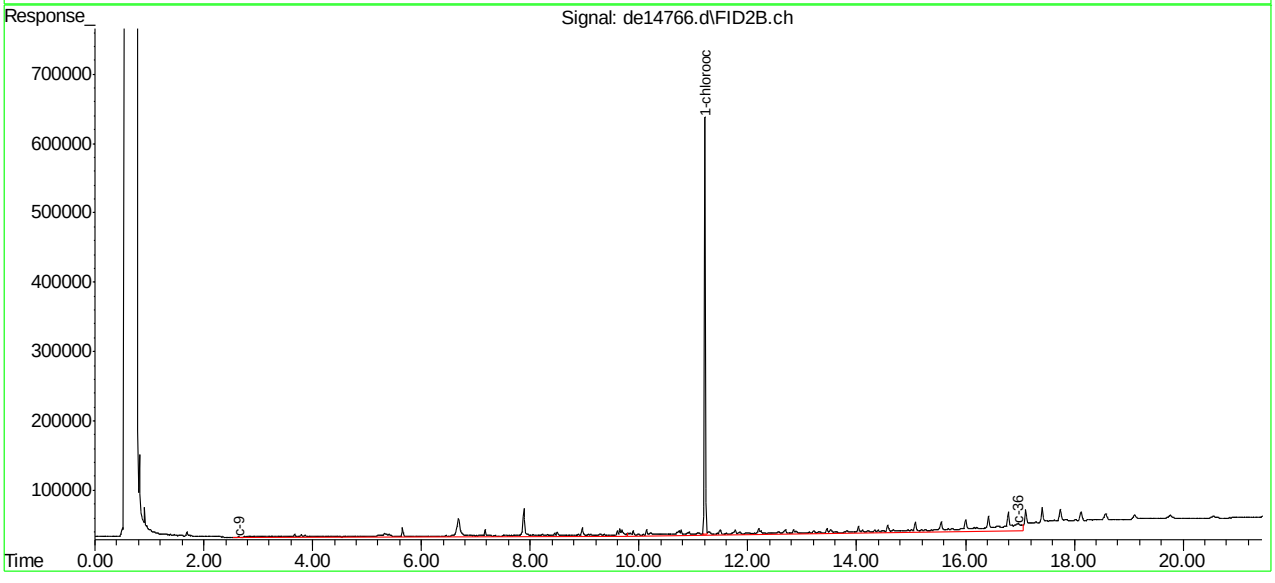
Quantitation Report (QT Reviewed)

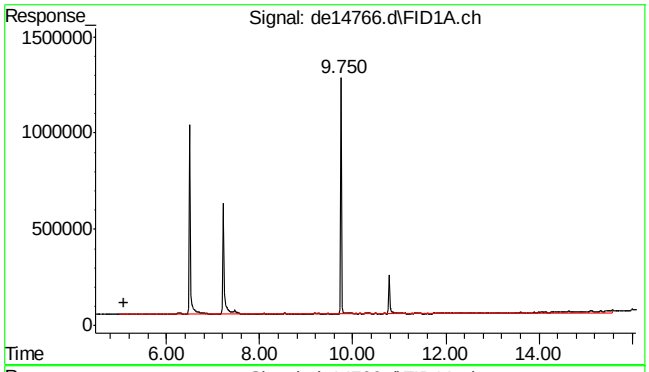
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14766.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:03 pm
Operator : thomasa
Sample : mc46423-2a,op47988
Misc : op47988,gde820,920,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 15:31:49 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

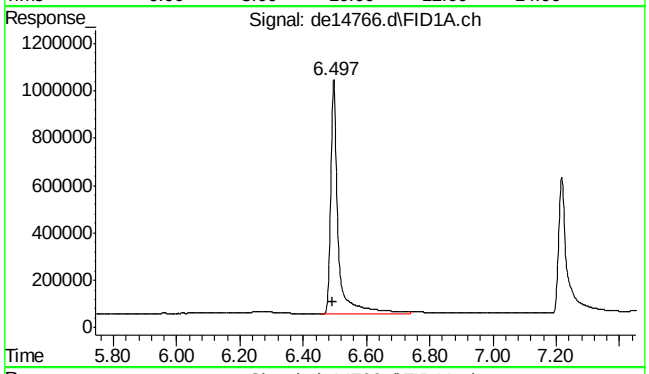






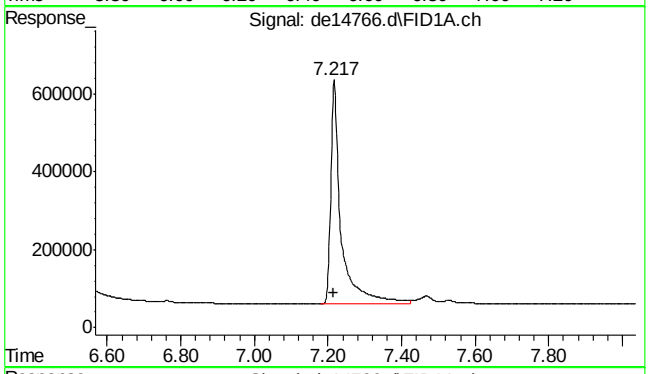
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 1964769
Conc: 15.75 µg/ml m



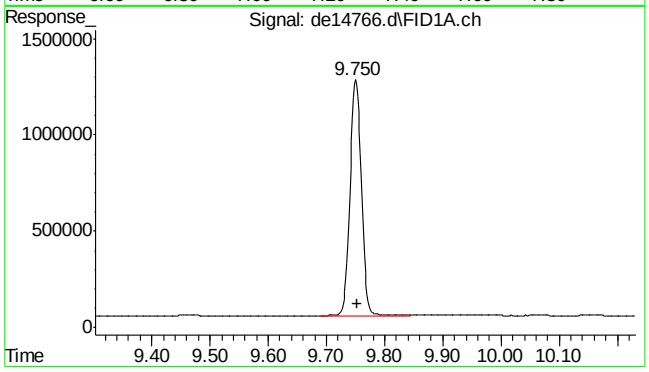
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1622510
Conc: 14.17 µg/ml



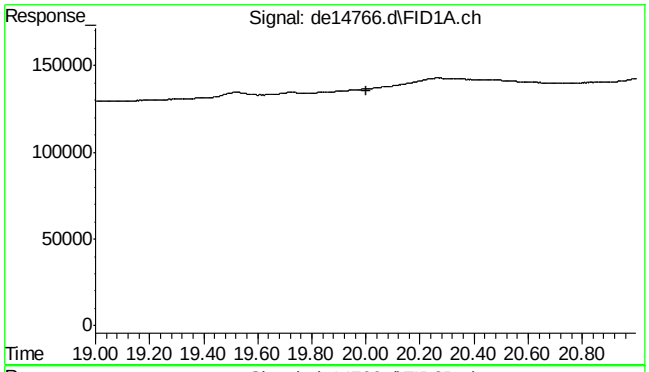
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1121491
Conc: 15.64 µg/ml



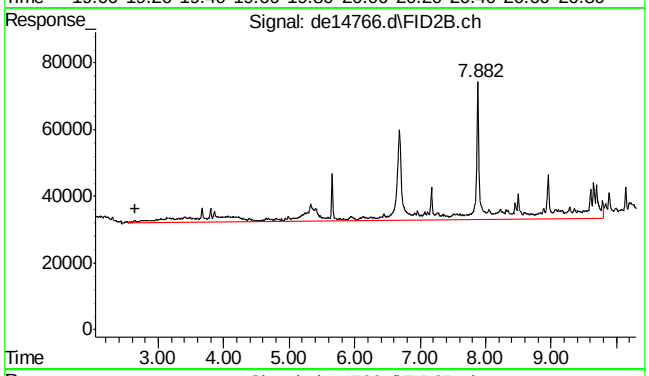
#11 o-terphenyl

R.T.: 9.750 min
Delta R.T.: -0.003 min
Response: 1672052
Conc: 12.64 µg/ml



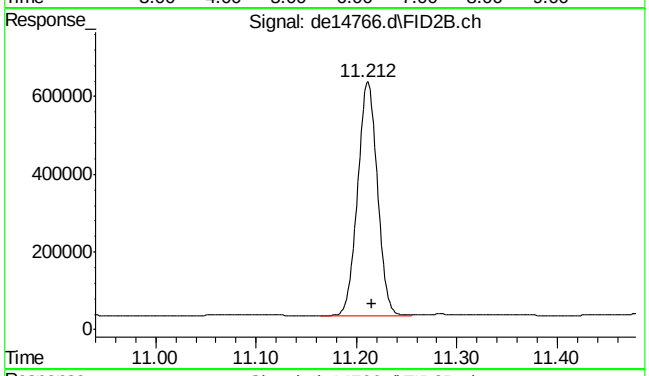
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



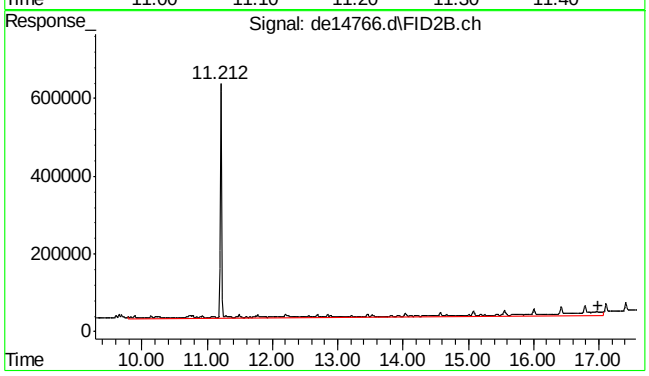
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 879411
Conc: 10.43 µg/ml m



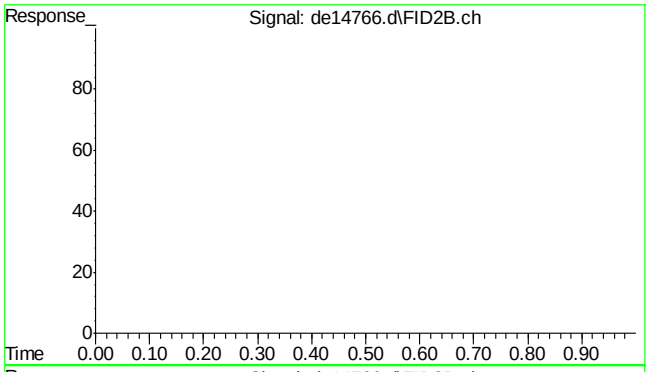
#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 815547
Conc: 12.52 µg/ml



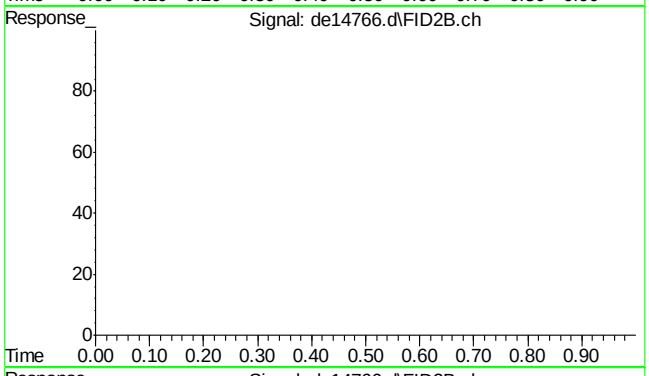
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1462997
Conc: 18.80 µg/ml m



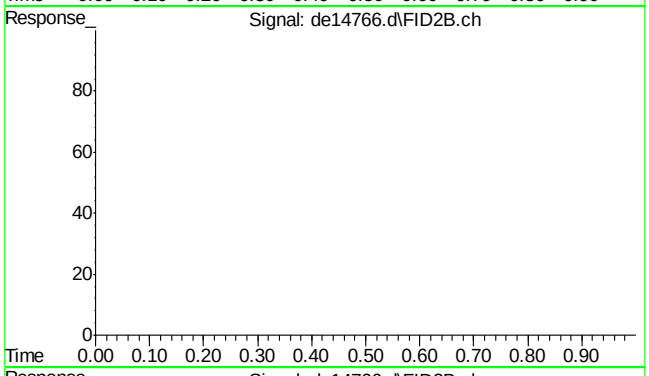
#42 bht

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



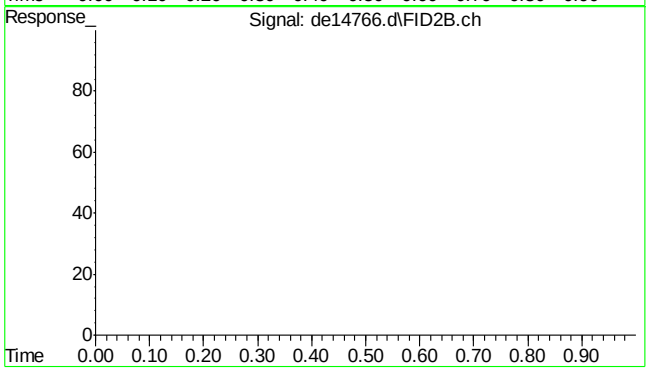
#43 bht

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\DE160630EPH\
Data File : de14767.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:30 pm
Operator : thomasa
Sample : mc46423-3a,op47988
Misc : op47988,gde820,935,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 16:13:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1647660	14.393 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.97%#	
6) s 2-bromonaphthalene	7.217	1124702	15.685 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 78.42%#	
11) s o-terphenyl	9.750	1344785	10.164 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 50.82%#	
35) s 1-chlorooctadecane	11.212	778372	11.947 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 59.73%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	2121076	17.002 µg/mlm
25) h c-9	2.647	1017633	12.071 µg/mlm
41) h c-36	16.983	3518308	45.209 µg/mlm

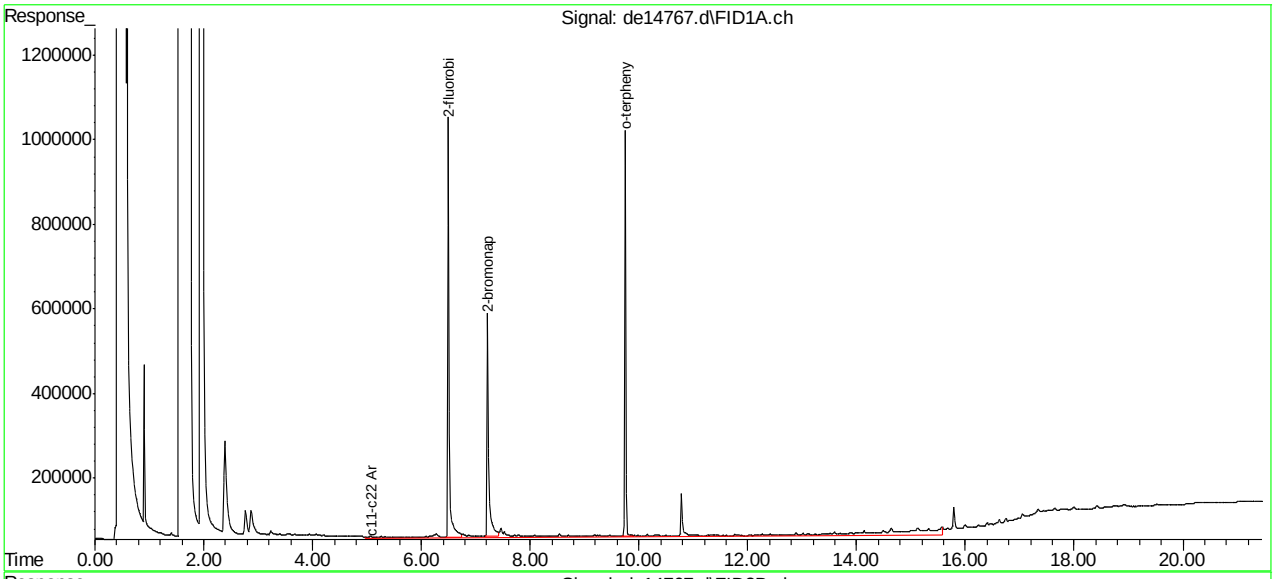
(f)=RT Delta > 1/2 Window (m)=manual int.

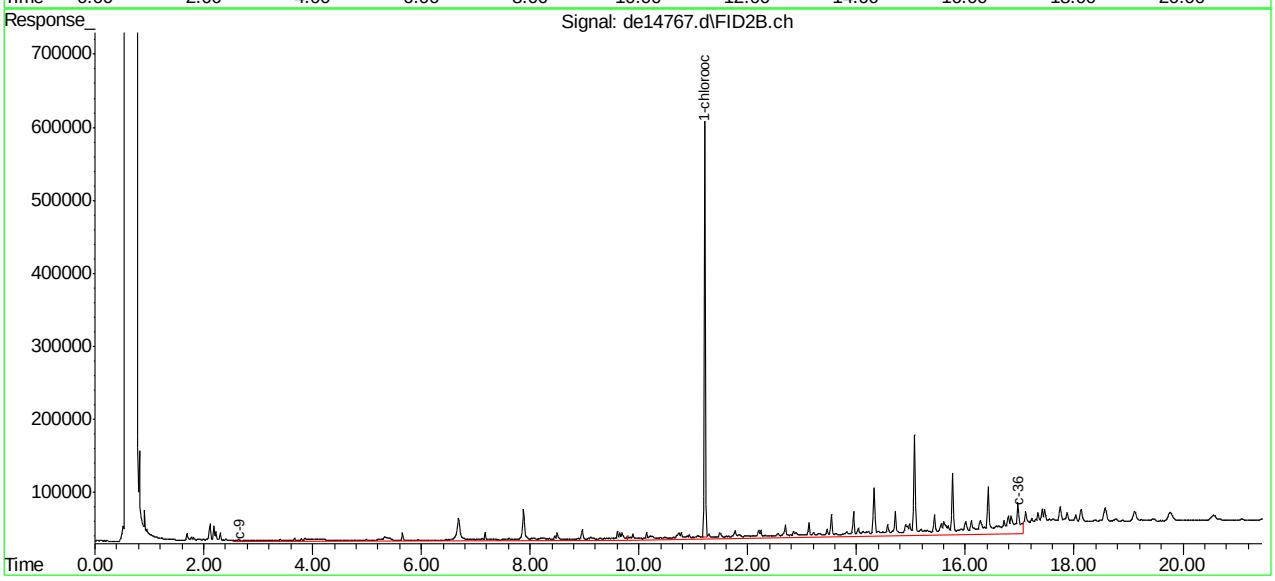
Quantitation Report (QT Reviewed)

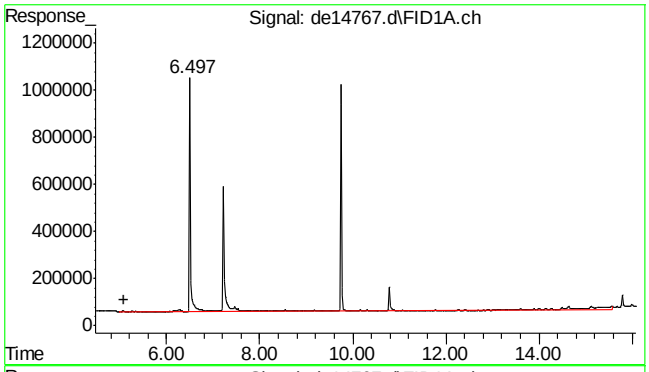
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14767.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:30 pm
Operator : thomasa
Sample : mc46423-3a,op47988
Misc : op47988,gde820,935,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 16:13:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

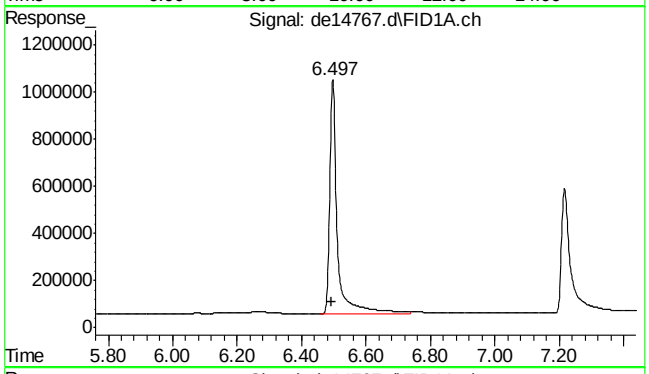






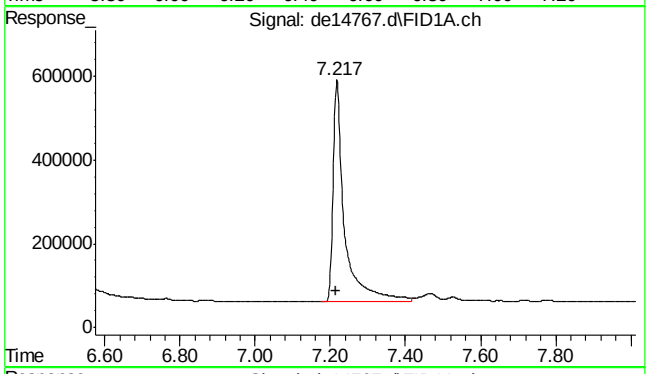
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2121076
Conc: 17.00 µg/ml m



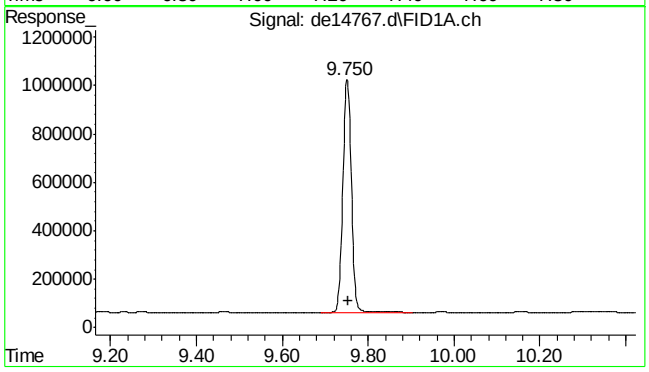
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1647660
Conc: 14.39 µg/ml



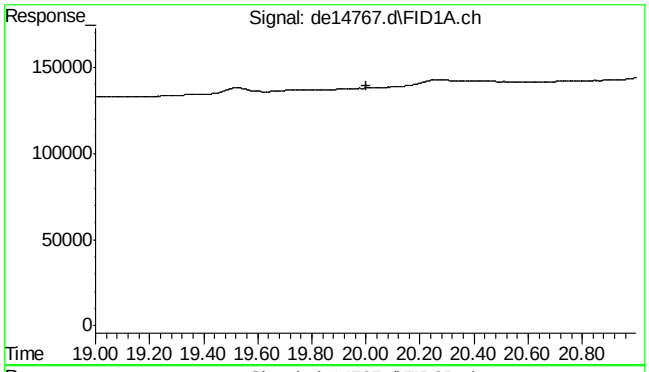
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1124702
Conc: 15.69 µg/ml



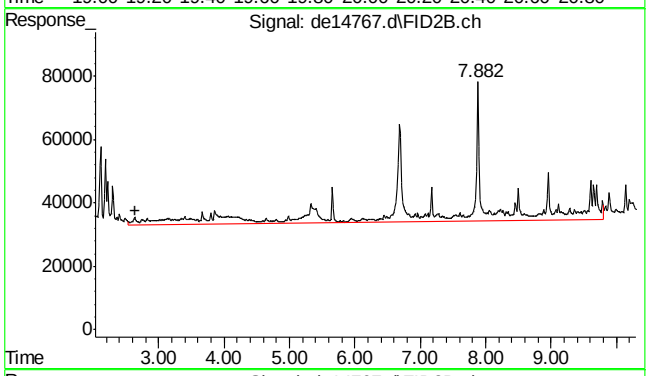
#11 o-terphenyl

R.T.: 9.750 min
Delta R.T.: -0.003 min
Response: 1344785
Conc: 10.16 µg/ml



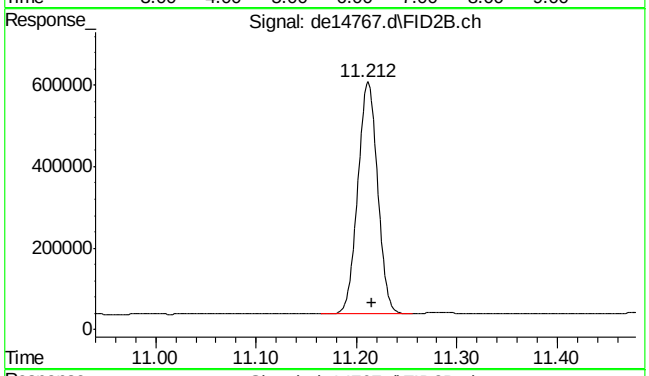
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



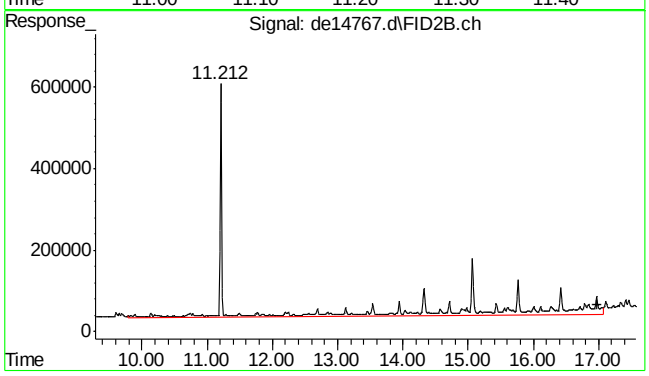
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1017633
Conc: 12.07 µg/ml m



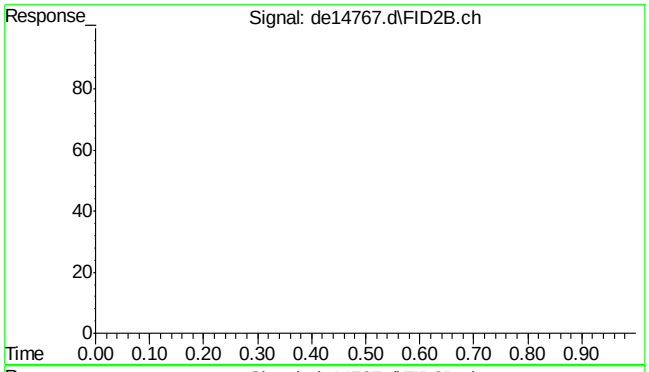
#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 778372
Conc: 11.95 µg/ml



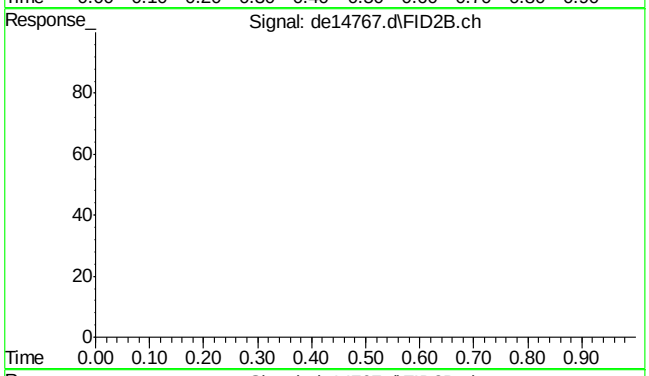
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3518308
Conc: 45.21 µg/ml m



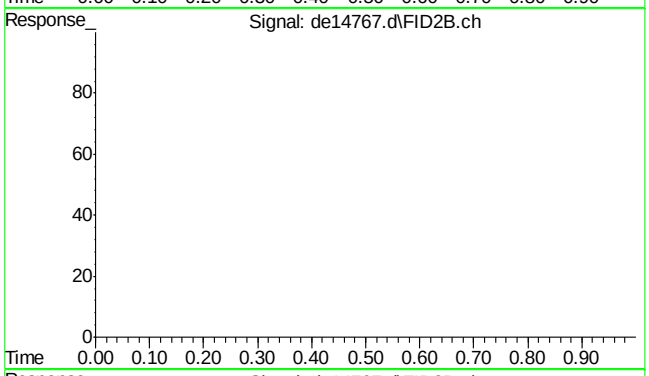
#42 bht

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



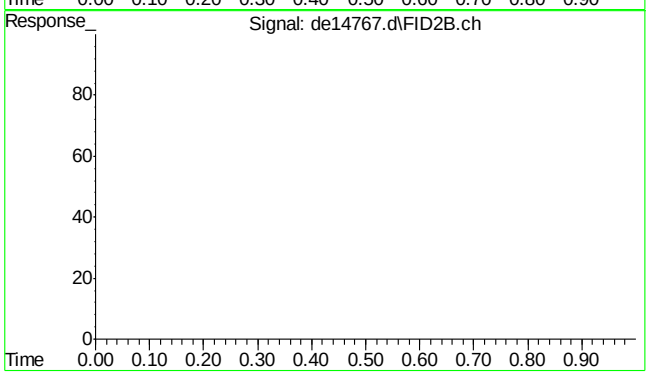
#43 bht

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



#44 bht

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



#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\DE160630EPH\
Data File : de14768.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:58 pm
Operator : thomasa
Sample : mc46423-4a,op47988
Misc : op47988,gde820,970,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:05:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1532491	13.387 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	66.94%#
6) s 2-bromonaphthalene	7.217	1058963	14.769 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	73.84%#
11) s o-terphenyl	9.752	1619562	12.241 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	61.20%#
35) s 1-chlorooctadecane	11.212	833525	12.793 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	63.96%#
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	3666704	29.391 µg/mlm
10) anthracene	9.163	1820943	13.688 µg/ml
25) h c-9	2.647	926302	10.987 µg/mlm
41) h c-36	16.983	1757496	22.583 µg/mlm

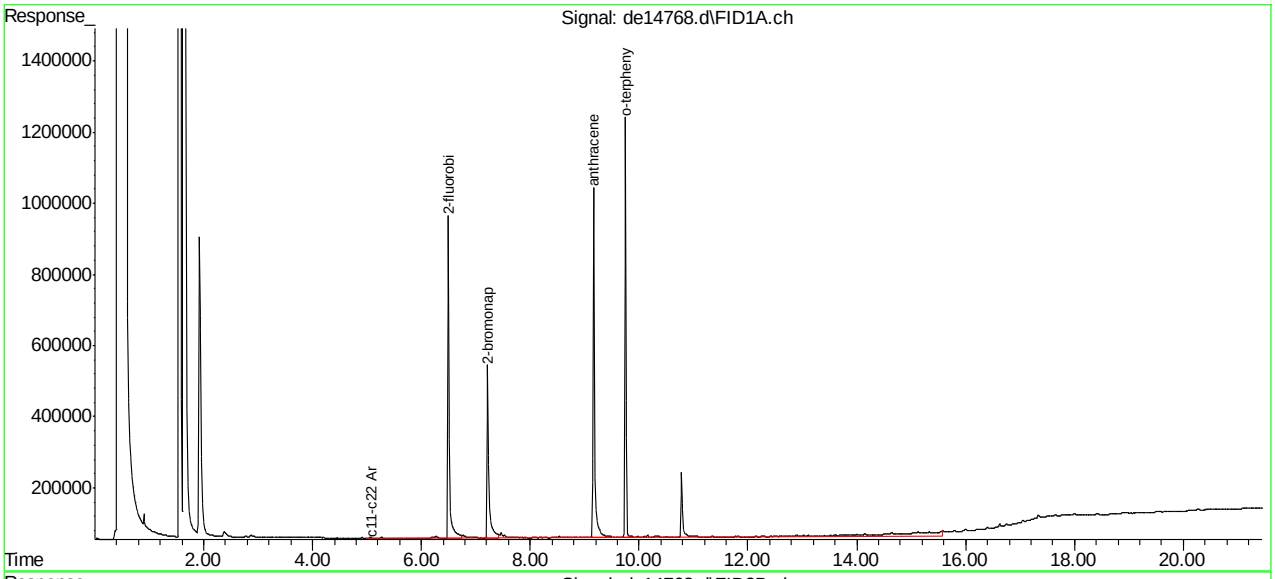
(f)=RT Delta > 1/2 Window (m)=manual int.

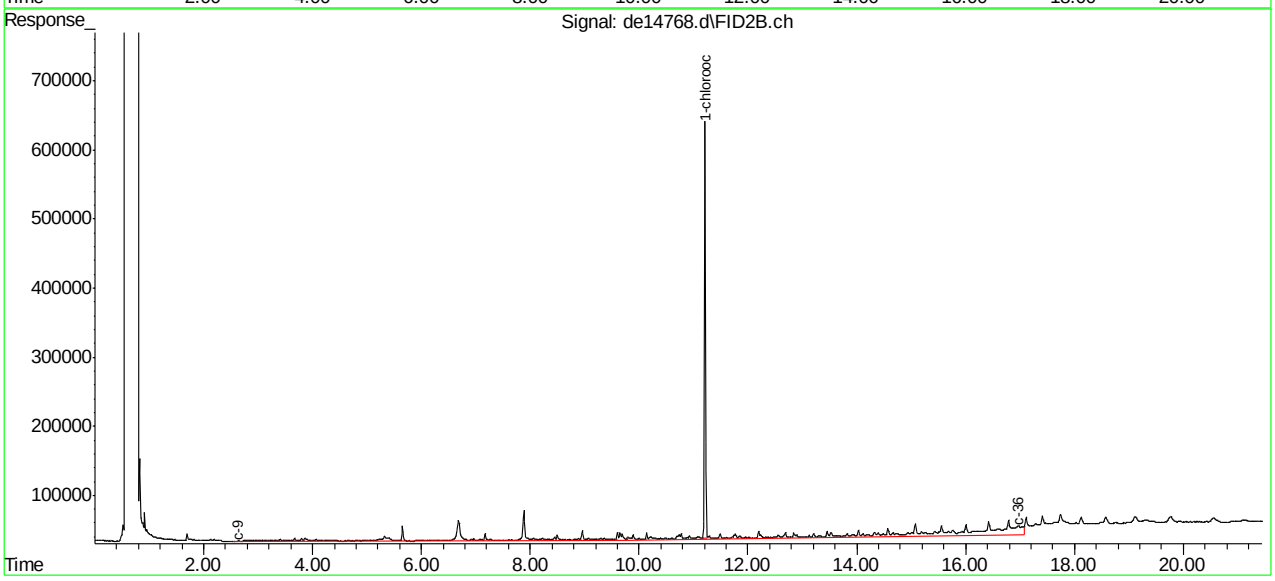
Quantitation Report (QT Reviewed)

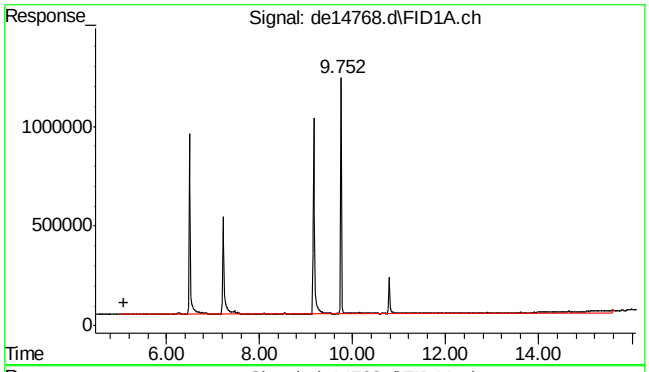
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14768.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 3:58 pm
Operator : thomasa
Sample : mc46423-4a,op47988
Misc : op47988,gde820,970,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:05:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

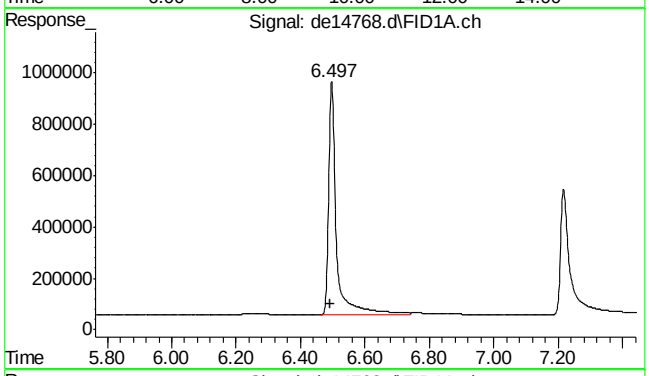






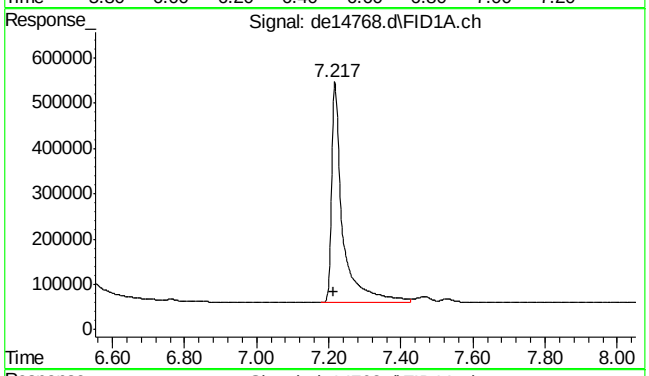
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 3666704
Conc: 29.39 µg/ml m



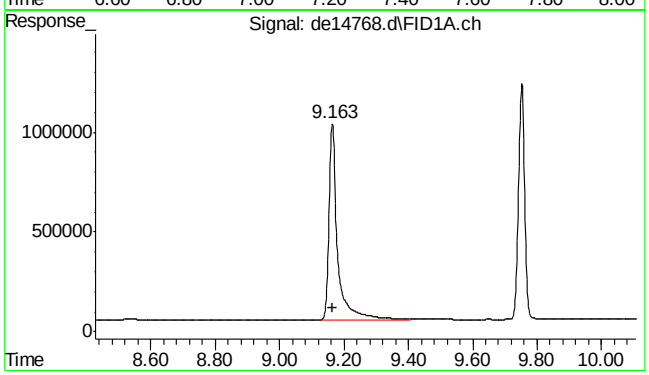
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1532491
Conc: 13.39 µg/ml



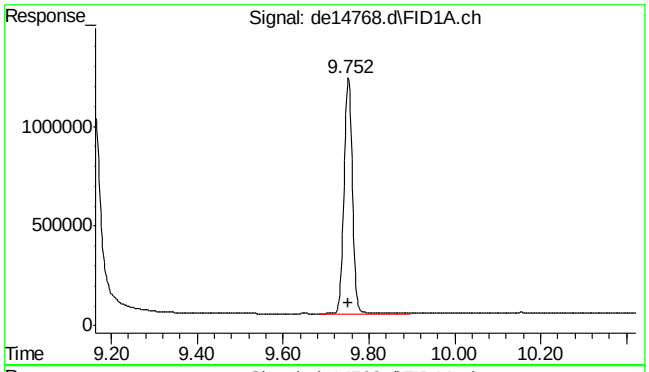
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1058963
Conc: 14.77 µg/ml



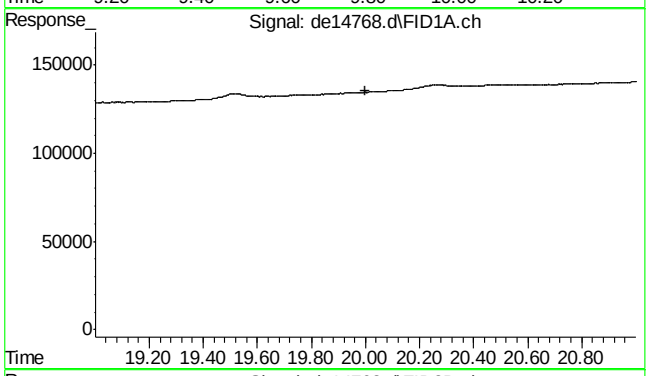
#10 anthracene

R.T.: 9.163 min
Delta R.T.: -0.002 min
Response: 1820943
Conc: 13.69 µg/ml



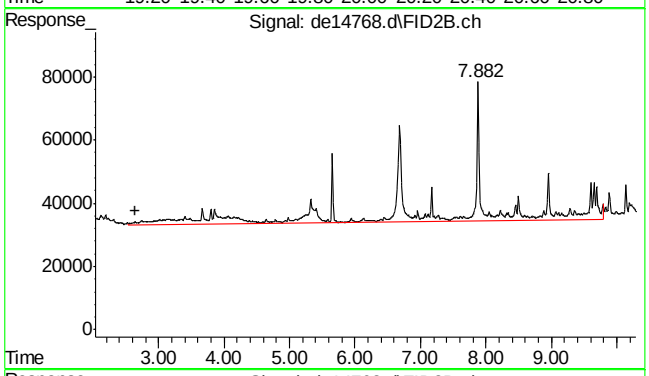
#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: -0.002 min
Response: 1619562
Conc: 12.24 µg/ml



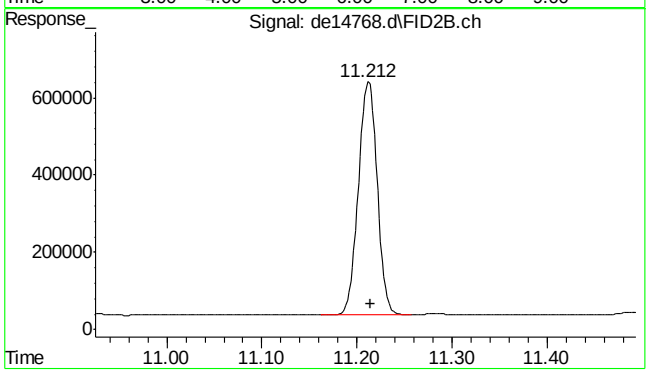
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



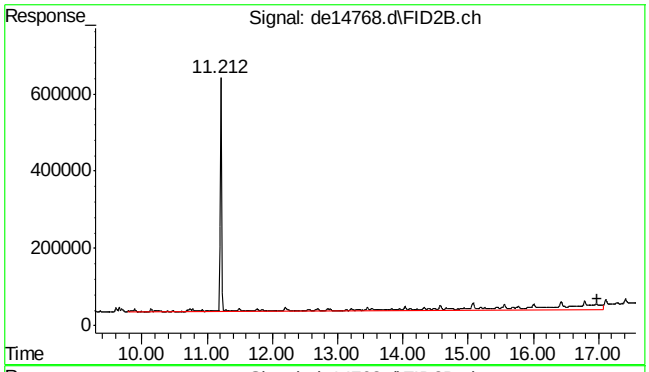
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 926302
Conc: 10.99 µg/ml m



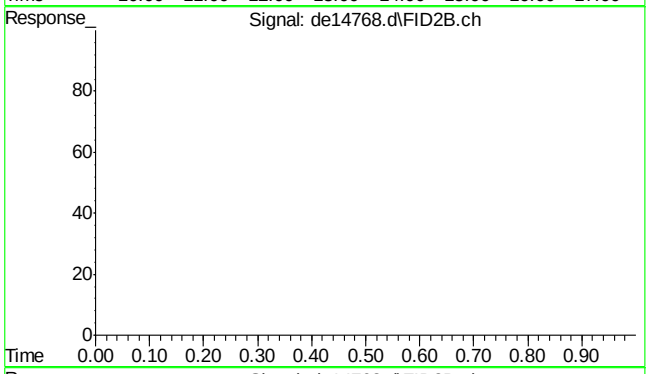
#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 833525
Conc: 12.79 µg/ml



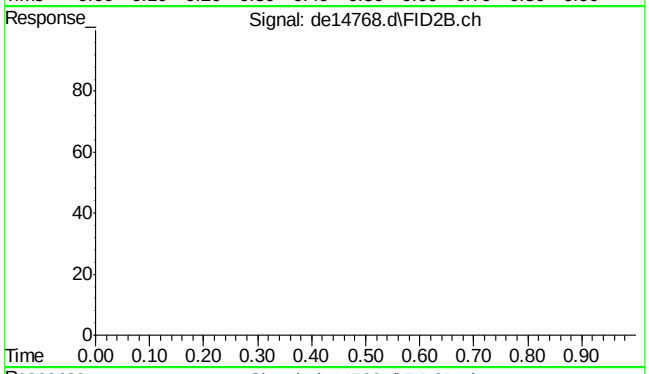
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1757496
Conc: 22.58 µg/ml m



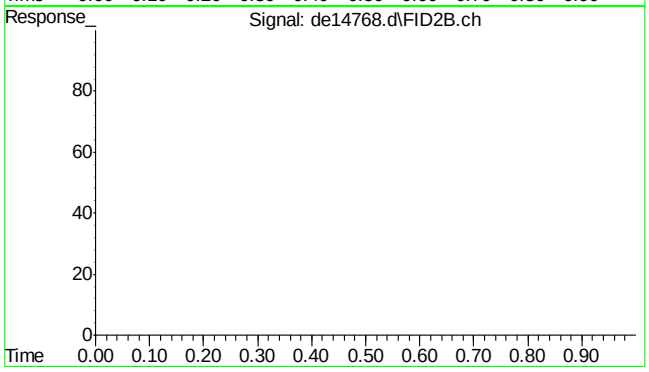
#42 bht

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



#43 bht

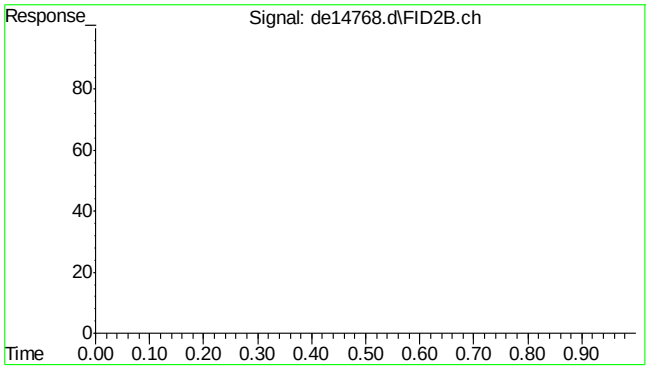
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

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

SGS ACCUTEST MC46423



#45 bht

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

9.1.4

9

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14769.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:25 pm
Operator : thomasa
Sample : mc46423-5a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:13:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1536398	13.421 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 67.10%#	
6) s 2-bromonaphthalene	7.218	1056416	14.733 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 73.67%#	
11) s o-terphenyl	9.752	1111778	8.403 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 42.02%#	
35) s 1-chlorooctadecane	11.212	564624	8.666 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 43.33%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	1588654	12.734 µg/mlm
25) h c-9	2.647	823598	9.769 µg/mlm
41) h c-36	16.983	1231975	15.830 µg/mlm

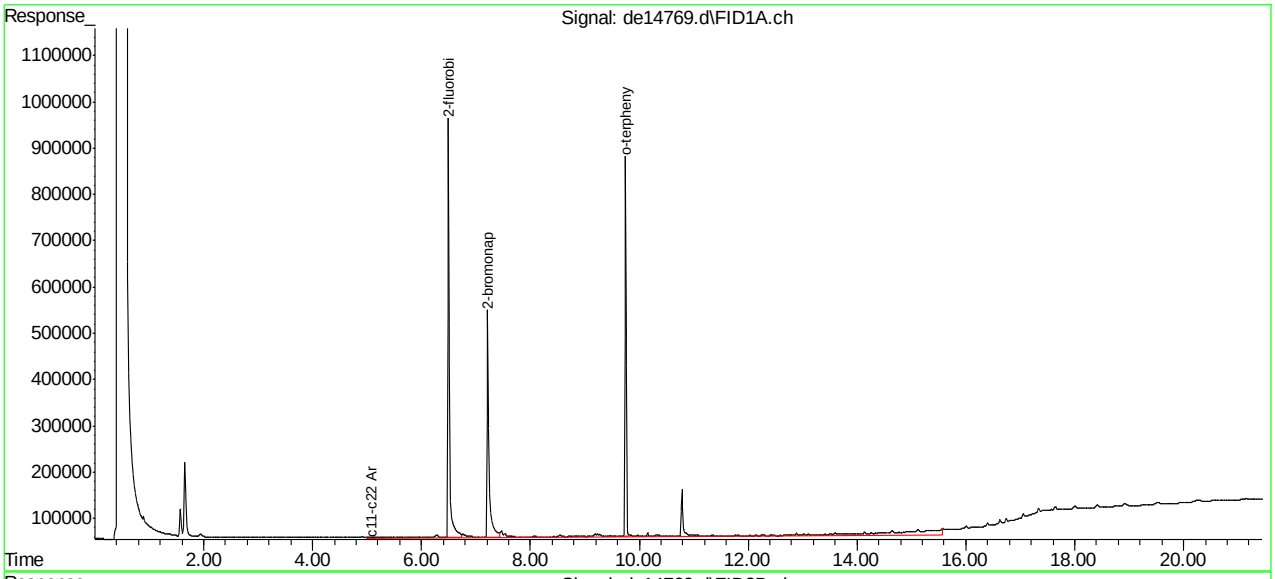
(f)=RT Delta > 1/2 Window (m)=manual int.

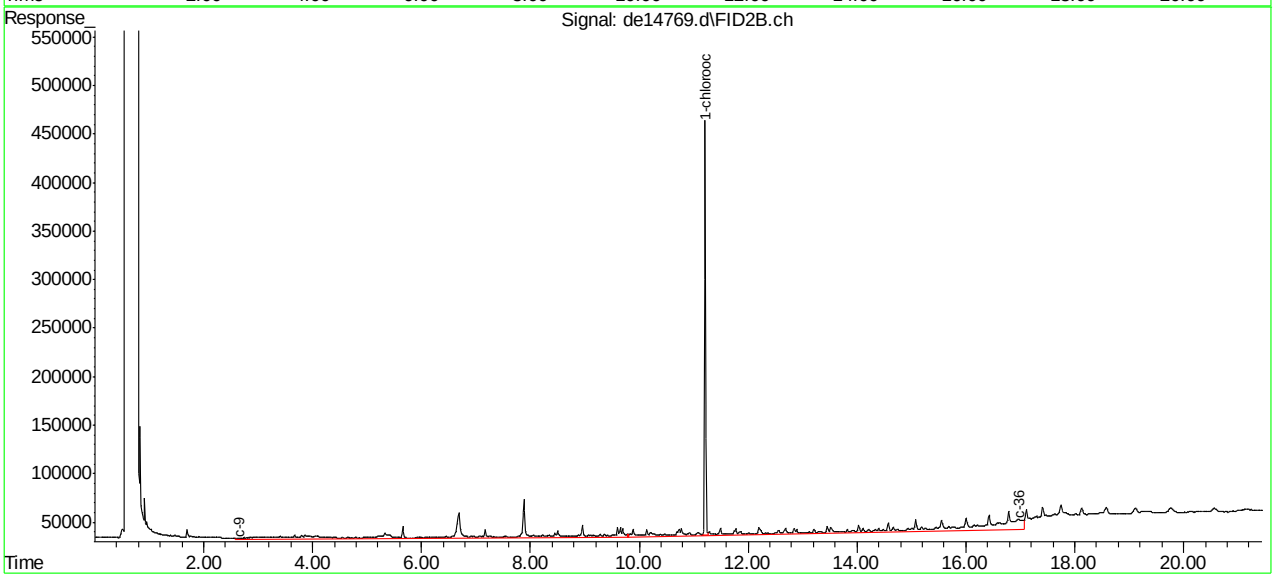
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14769.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:25 pm
Operator : thomasa
Sample : mc46423-5a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

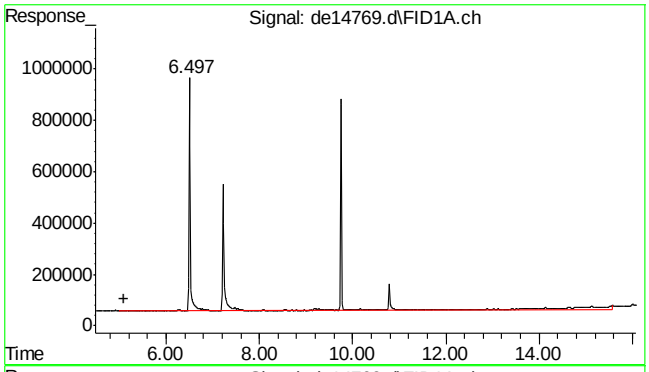
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:13:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



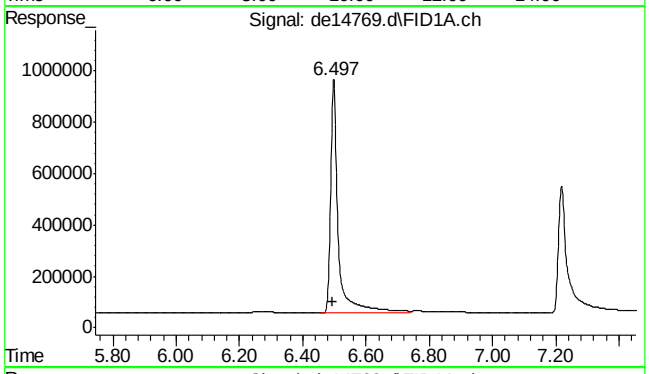


EPH160630W.M Fri Jul 01 08:19:49 2016 Page: 2



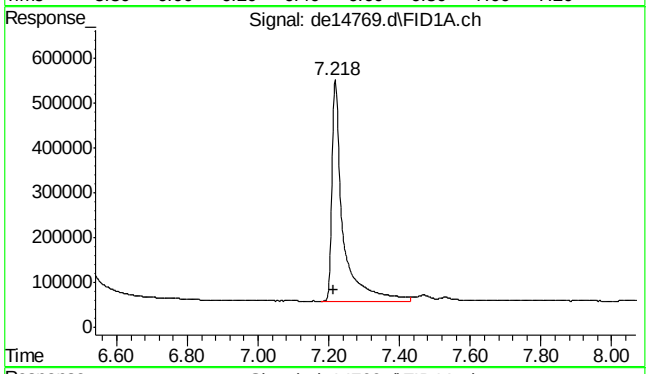
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 1588654
Conc: 12.73 µg/ml m



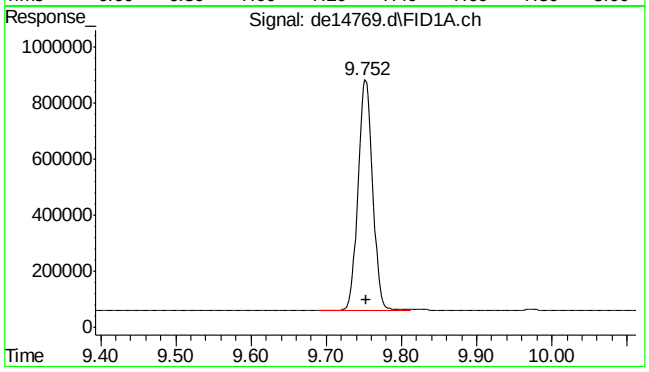
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1536398
Conc: 13.42 µg/ml



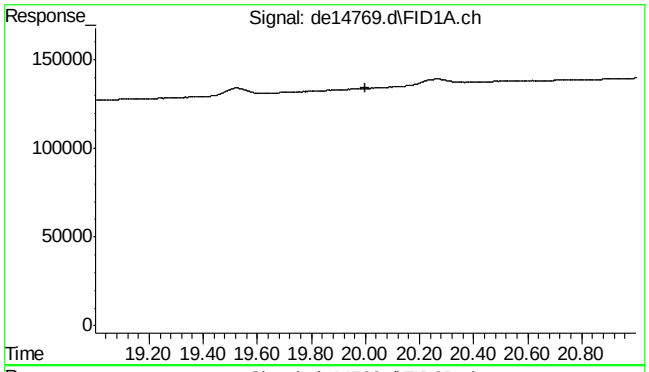
#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.003 min
Response: 1056416
Conc: 14.73 µg/ml



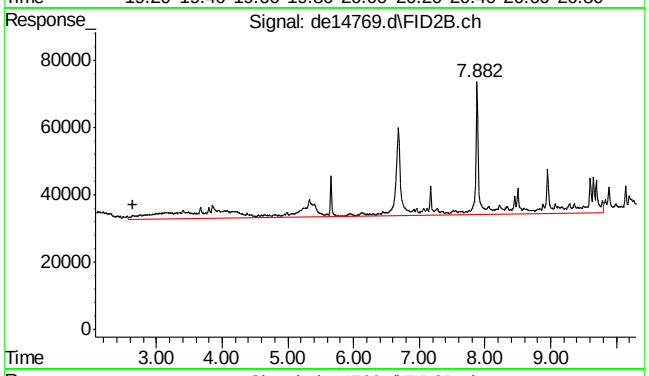
#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: -0.002 min
Response: 1111778
Conc: 8.40 µg/ml



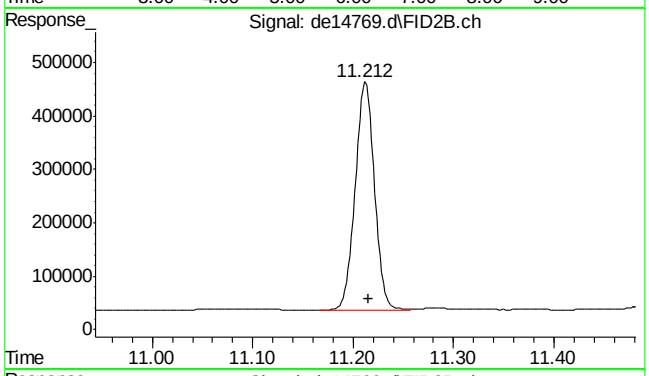
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



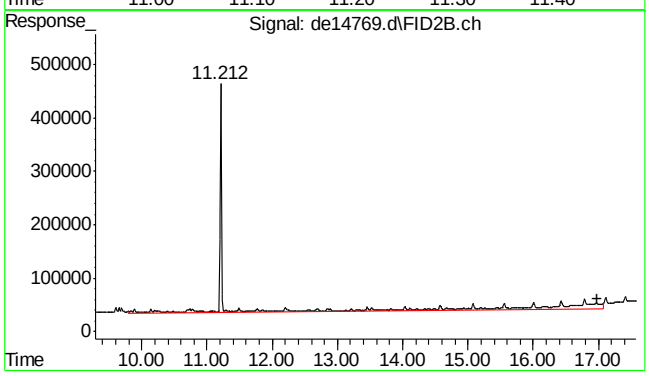
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 823598
Conc: 9.77 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 564624
Conc: 8.67 µg/ml



#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1231975
Conc: 15.83 µg/ml m

9.1.5

9

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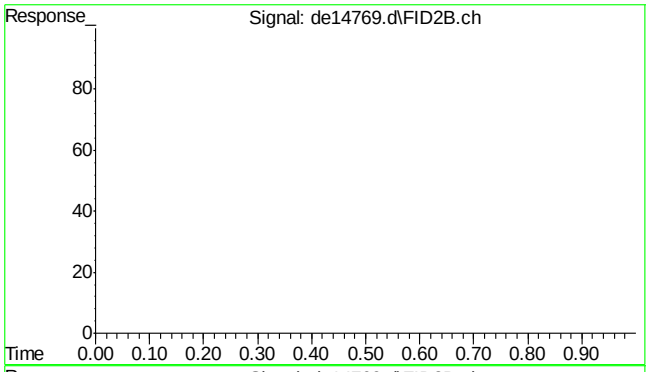
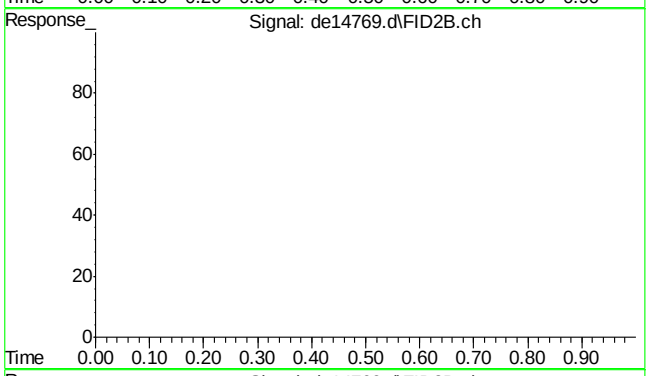


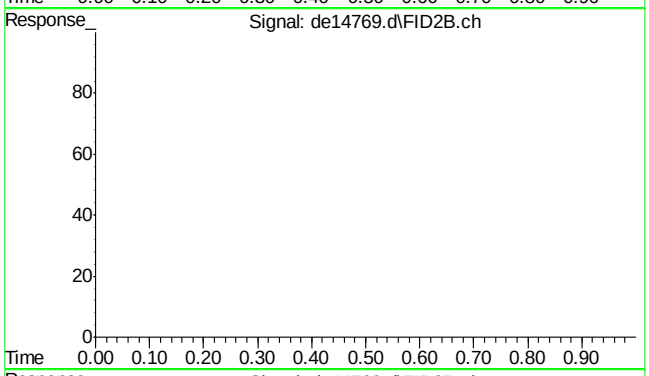
#42 bht

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



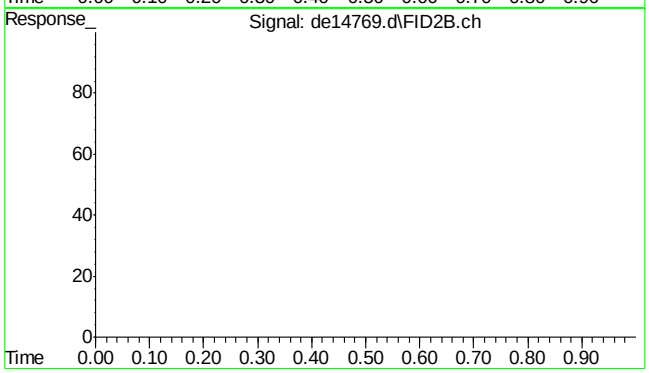
#43 bht

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



#44 bht

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



#45 bht

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

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
07/01/16 09:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14770.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:53 pm
Operator : thomasa
Sample : mc46423-6a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:15:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1474172	12.877 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 64.39%#	
6) s 2-bromonaphthalene	7.218	959047	13.375 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 66.88%#	
11) s o-terphenyl	9.752	1348441	10.192 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 50.96%#	
35) s 1-chlorooctadecane	11.212	631572	9.694 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 48.47%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	5003537	40.106 µg/mlm
2) naphthalene	5.052	72826	0.580 µg/ml
3) 2-methylnaphthalene	5.948	137599	1.091 µg/ml
9) phenanthrene	9.115	28299	0.227 µg/ml
12) fluoranthene	10.607	100002	0.780 µg/ml
13) pyrene	10.860	74393	0.566 µg/mlm
25) h c-9	2.647	2880144	34.163 µg/mlm
41) h c-36	16.983	1363520	17.521 µg/mlm

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

9.1.6

9

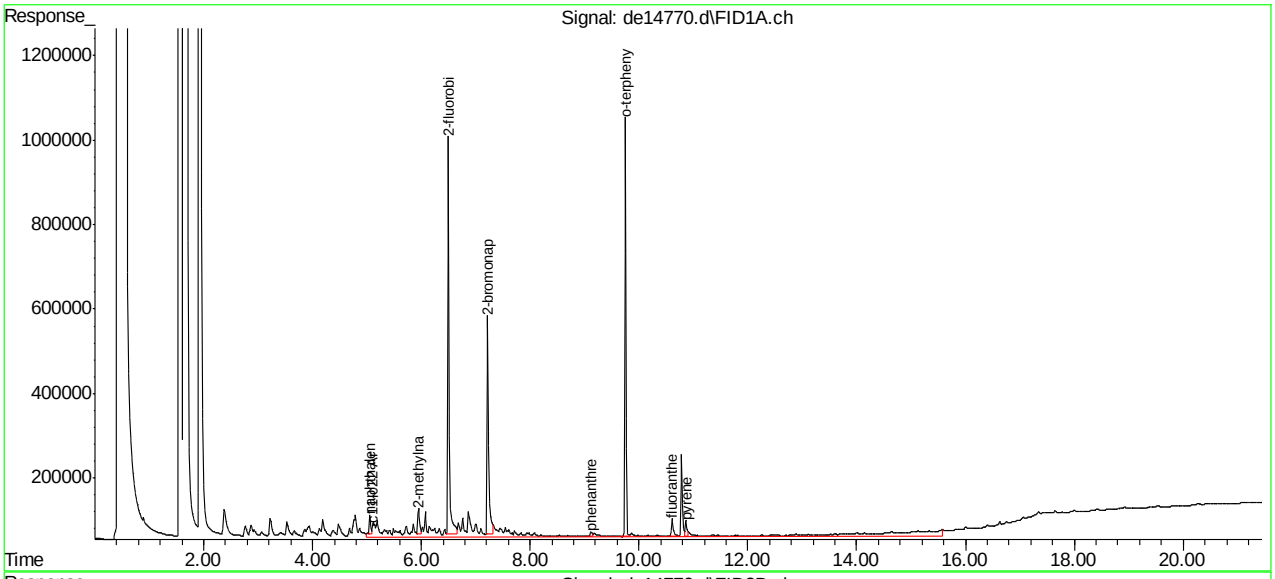
SGS ACCUTEST MC46423

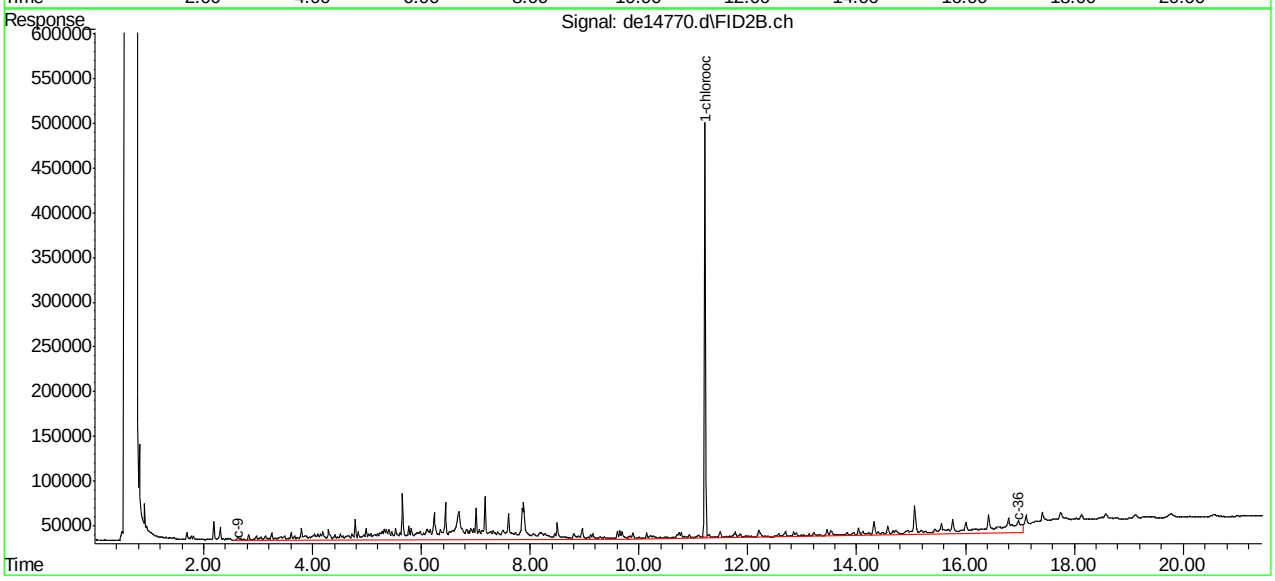
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14770.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:53 pm
Operator : thomasa
Sample : mc46423-6a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

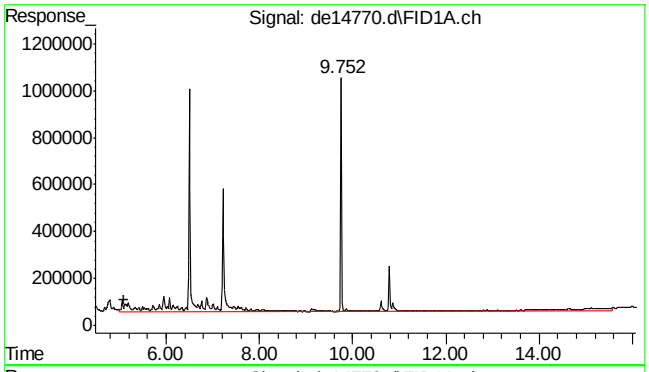
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:15:46 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



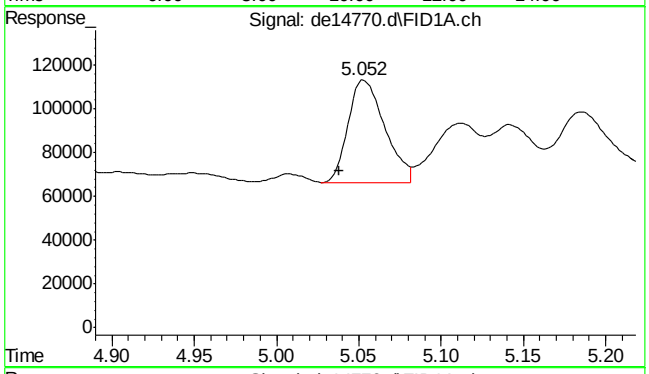


SGS ACCUTEST MC46423



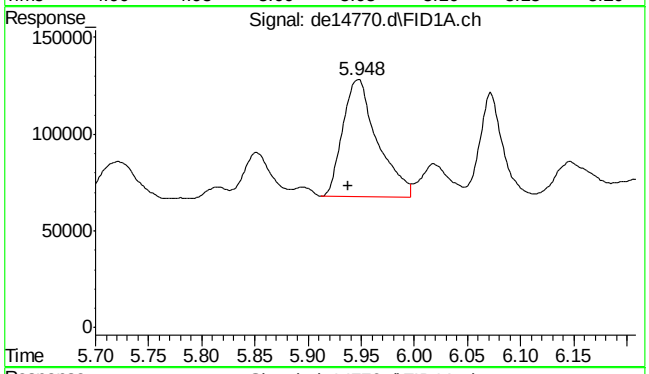
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 5003537
Conc: 40.11 µg/ml m



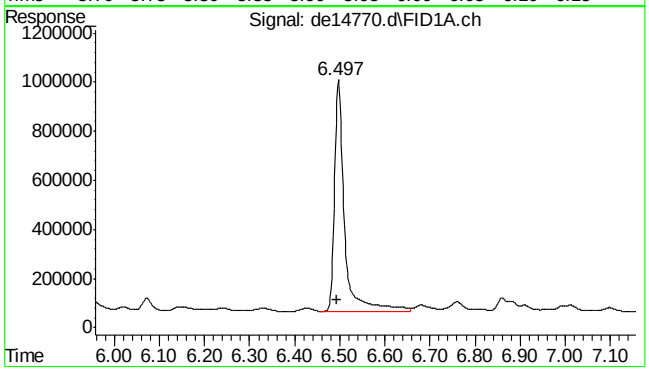
#2 naphthalene

R.T.: 5.052 min
Delta R.T.: 0.013 min
Response: 72826
Conc: 0.58 µg/ml



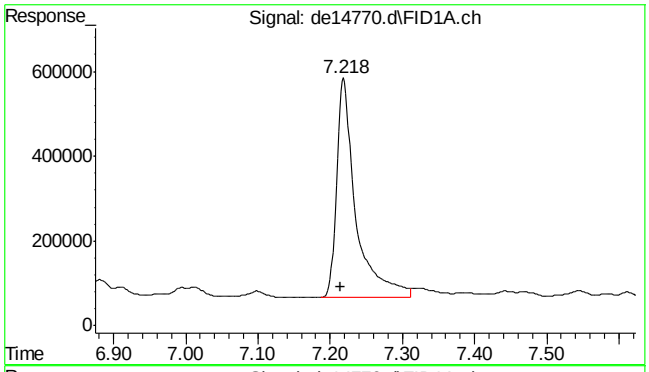
#3 2-methylnaphthalene

R.T.: 5.948 min
Delta R.T.: 0.010 min
Response: 137599
Conc: 1.09 µg/ml



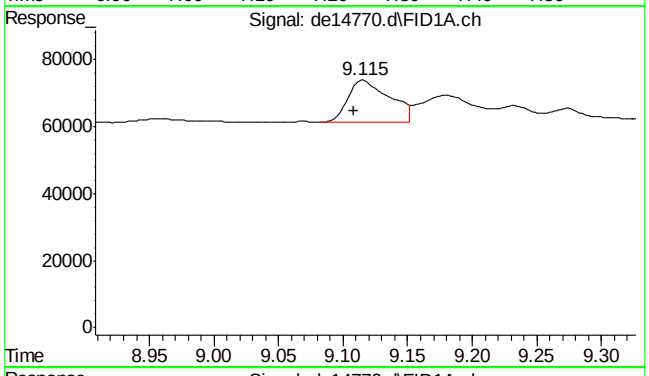
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1474172
Conc: 12.88 µg/ml



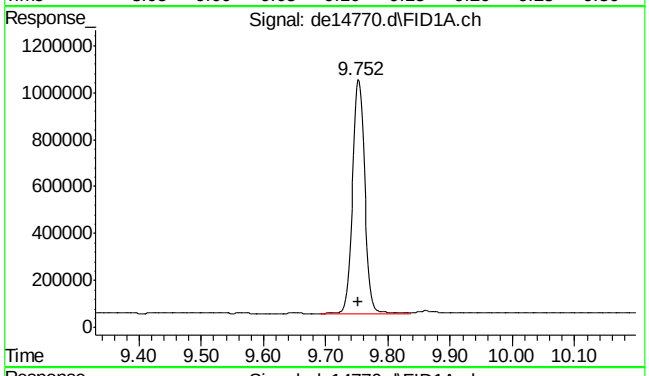
#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.003 min
Response: 959047
Conc: 13.38 µg/ml



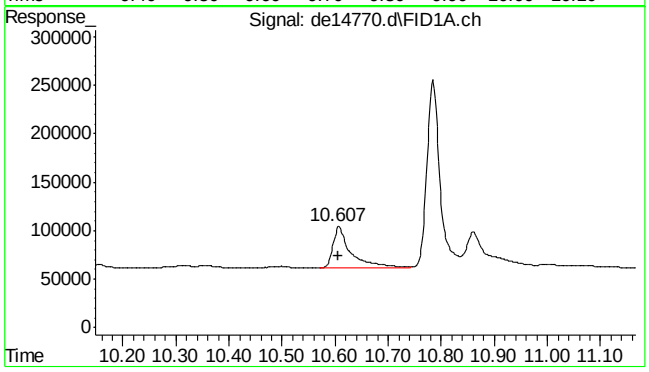
#9 phenanthrene

R.T.: 9.115 min
Delta R.T.: 0.007 min
Response: 28299
Conc: 0.23 µg/ml



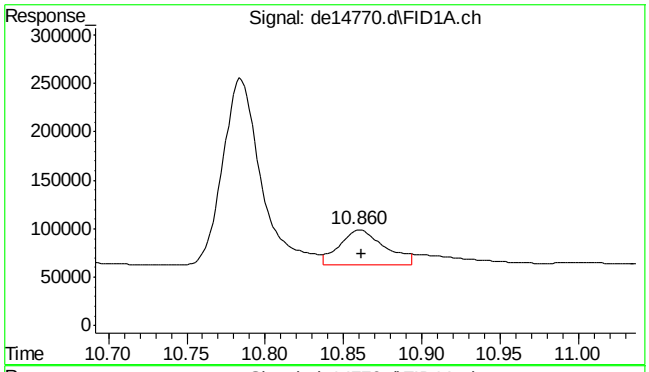
#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: -0.002 min
Response: 1348441
Conc: 10.19 µg/ml



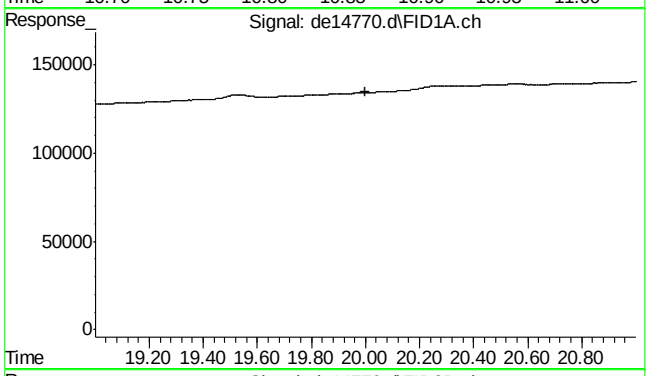
#12 fluoranthene

R.T.: 10.607 min
Delta R.T.: 0.000 min
Response: 100002
Conc: 0.78 µg/ml



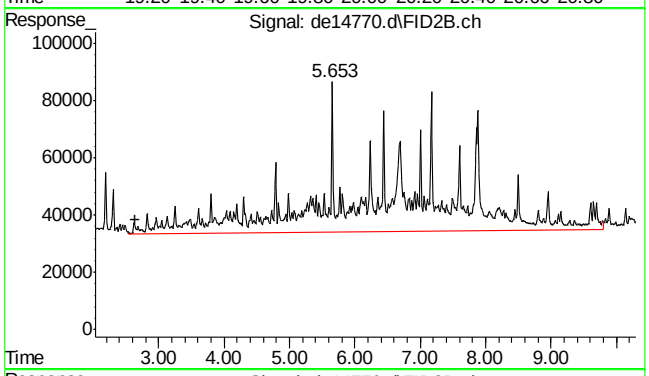
#13 pyrene

R.T.: 10.860 min
Delta R.T.: -0.002 min
Response: 74393
Conc: 0.57 µg/ml m



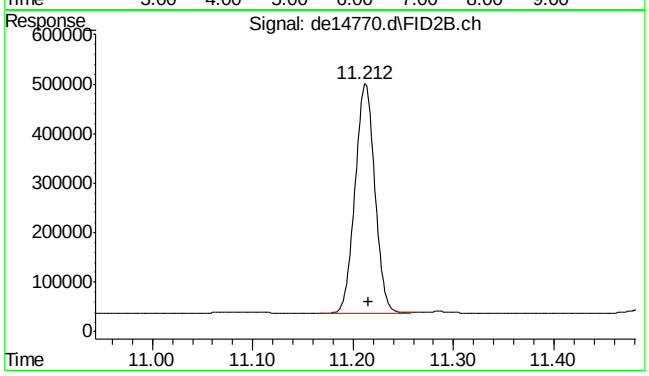
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



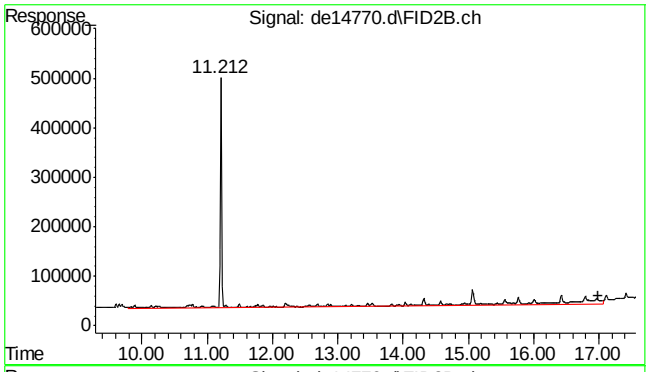
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 2880144
Conc: 34.16 µg/ml m



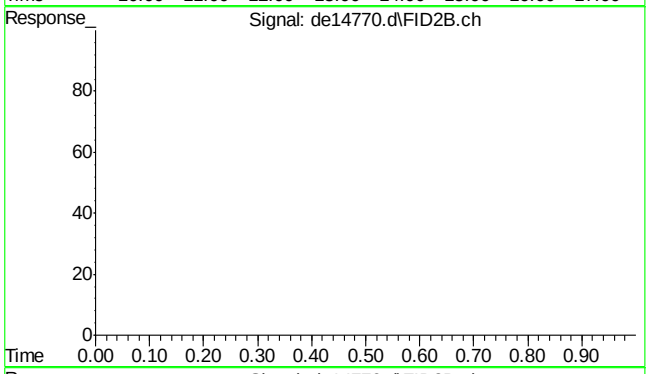
#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 631572
Conc: 9.69 µg/ml



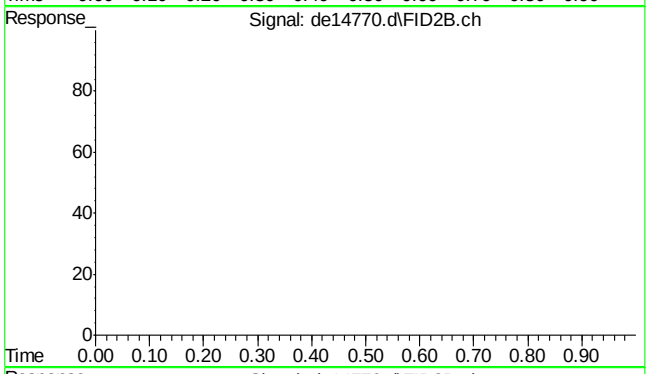
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1363520
Conc: 17.52 µg/ml m



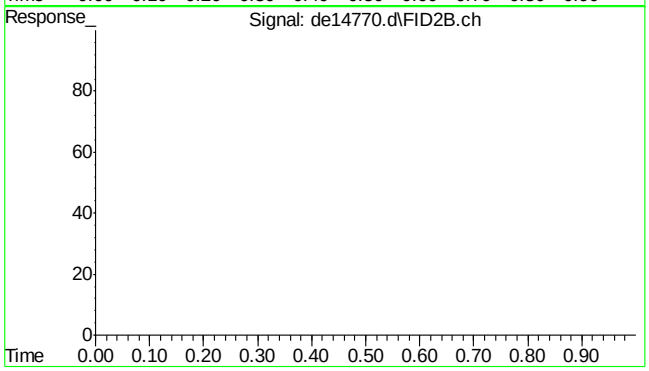
#42 bht

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



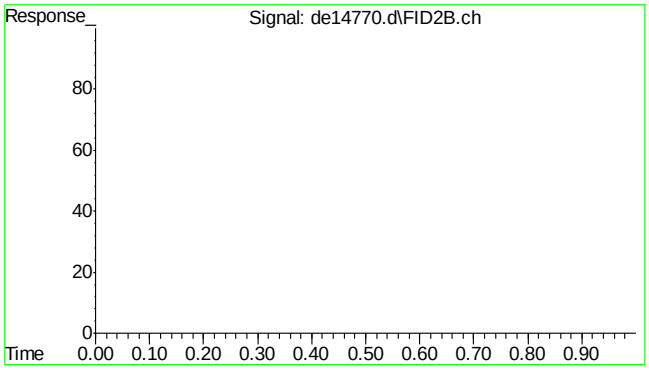
#43 bht

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



#44 bht

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



#45 bht

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

9.1.6

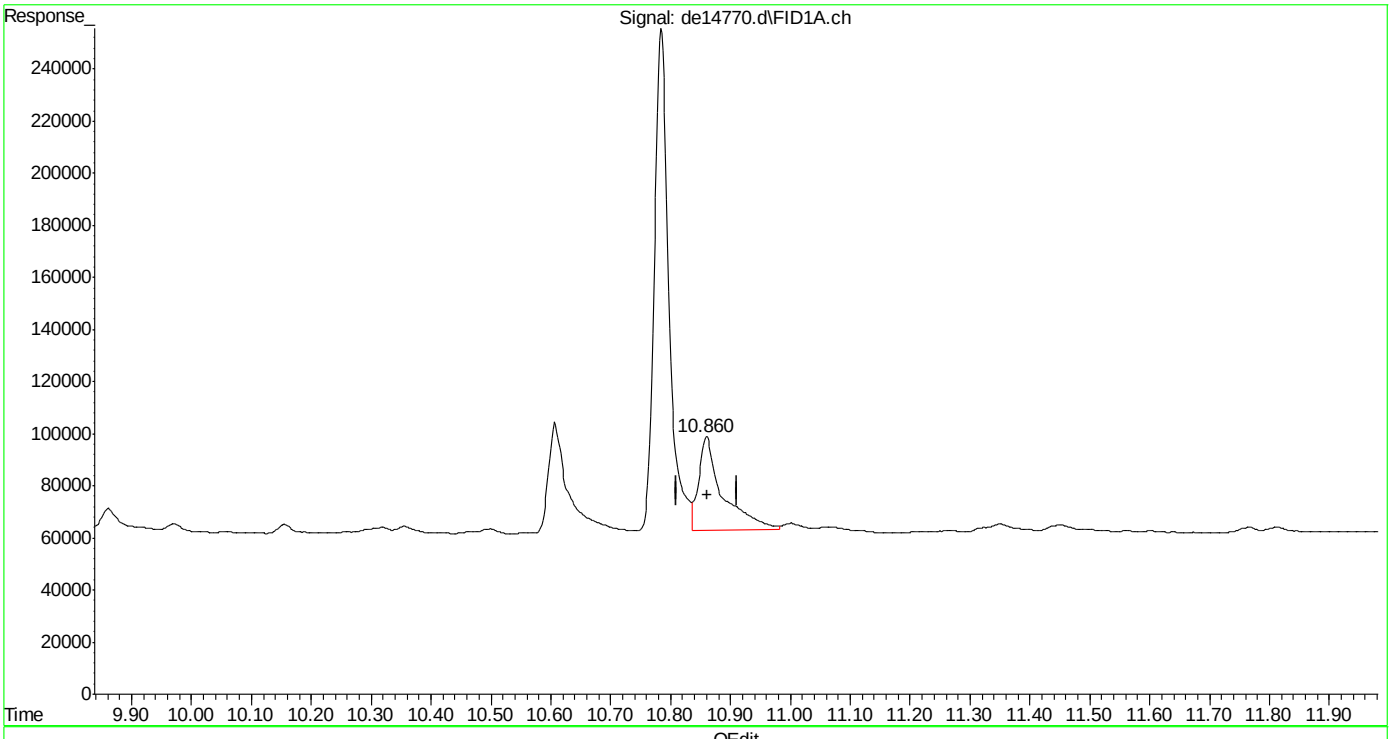
9

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14770.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:53 pm
Operator : thomasa
Sample : mc46423-6a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 07:58:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(13) pyrene
10.860min 0.752 µg/ml
response 98735

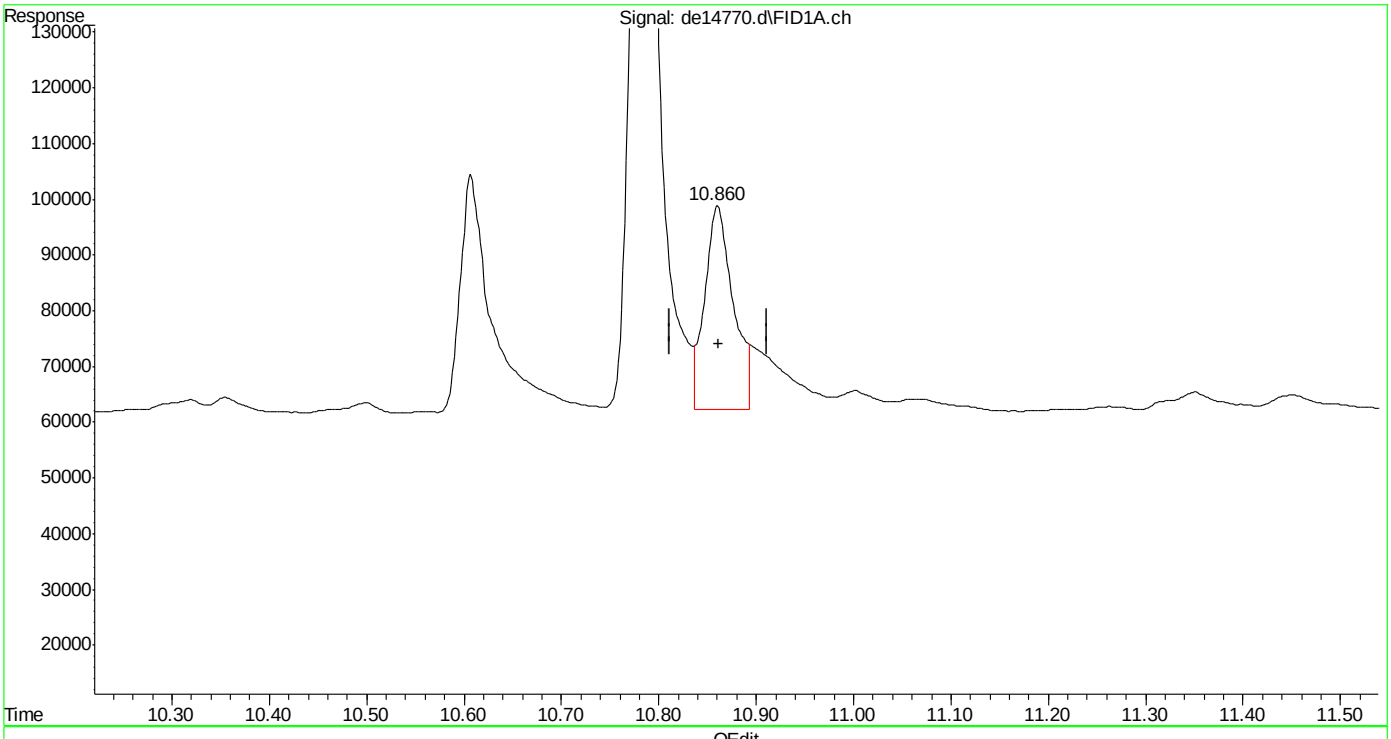
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14770.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 4:53 pm
Operator : thomasa
Sample : mc46423-6a,op47988
Misc : op47988,gde820,940,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 07:58:19 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(13) pyrene
10.860min 0.566 µg/ml m
response 74393

(+) = Expected Retention Time

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14771.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:21 pm
Operator : thomasa
Sample : mc46423-7a,op47988
Misc : op47988,gde820,920,,,2,,w
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:17:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	1534834	13.407 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 67.03%#	
6) s 2-bromonaphthalene	7.218	1059975	14.783 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 73.91%#	
11) s o-terphenyl	9.753	1583145	11.966 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 59.83%#	
35) s 1-chlorooctadecane	11.210	845708	12.980 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 64.90%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	2244666	17.992 µg/mlm
25) h c-9	2.647	771561	9.152 µg/mlm
41) h c-36	16.983	2132119	27.397 µg/mlm

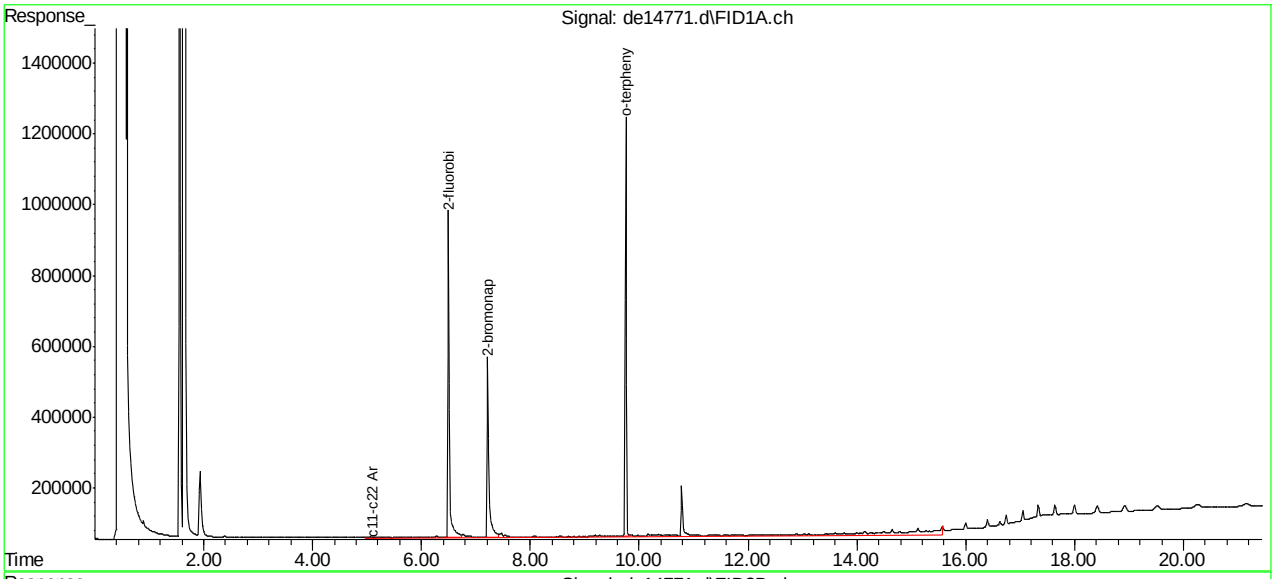
(f)=RT Delta > 1/2 Window (m)=manual int.

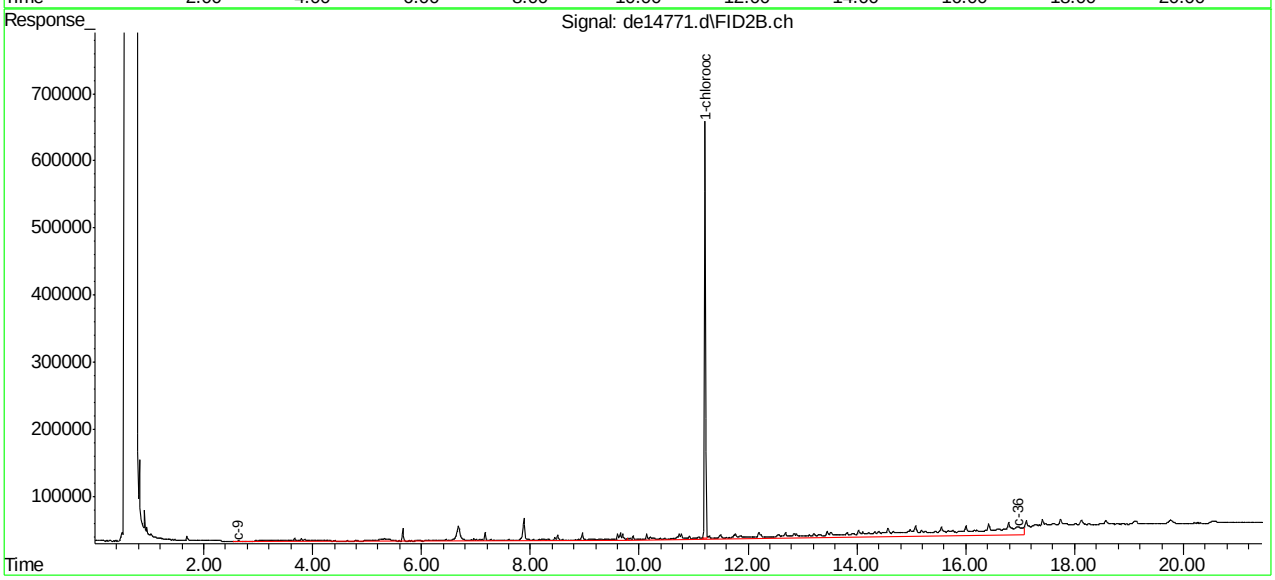
Quantitation Report (QT Reviewed)

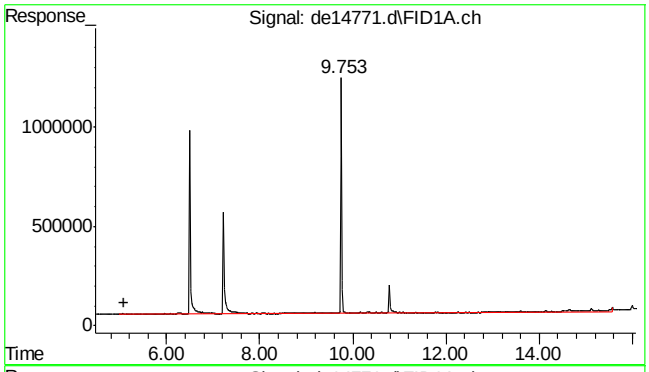
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14771.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:21 pm
Operator : thomasa
Sample : mc46423-7a,op47988
Misc : op47988,gde820,920,,,2,,w
ALS Vial : 20 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:17:54 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

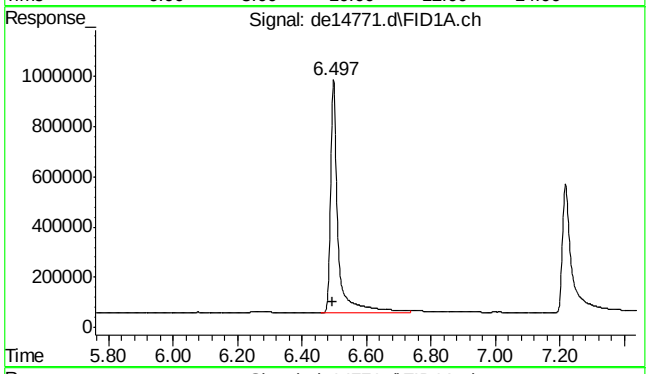






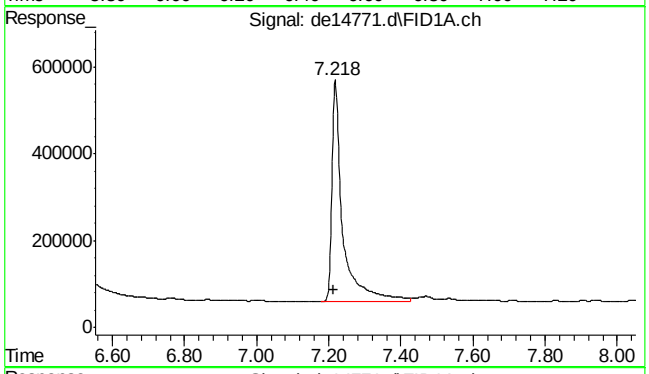
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2244666
Conc: 17.99 µg/ml m



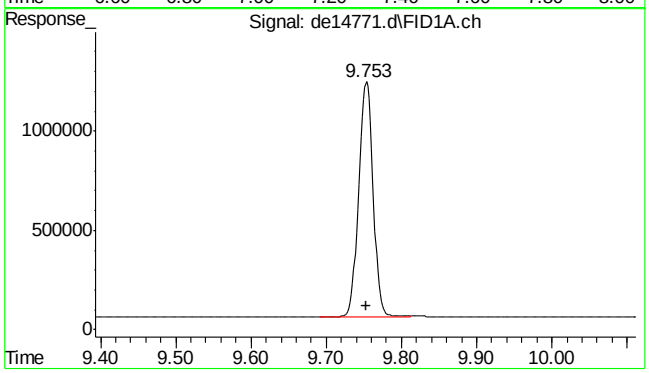
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 1534834
Conc: 13.41 µg/ml



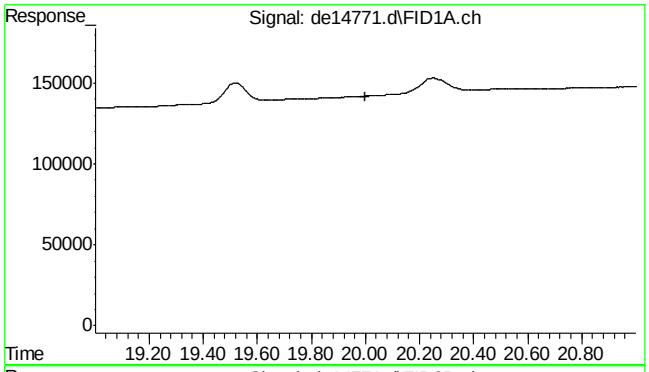
#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.003 min
Response: 1059975
Conc: 14.78 µg/ml



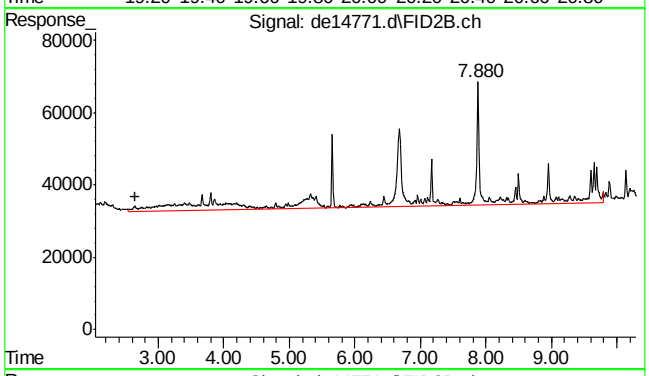
#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: 0.000 min
Response: 1583145
Conc: 11.97 µg/ml



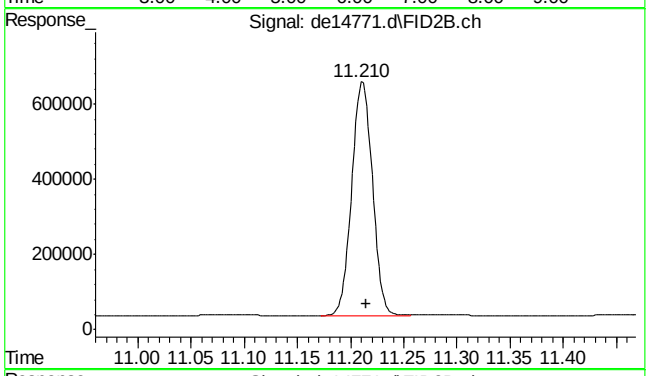
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



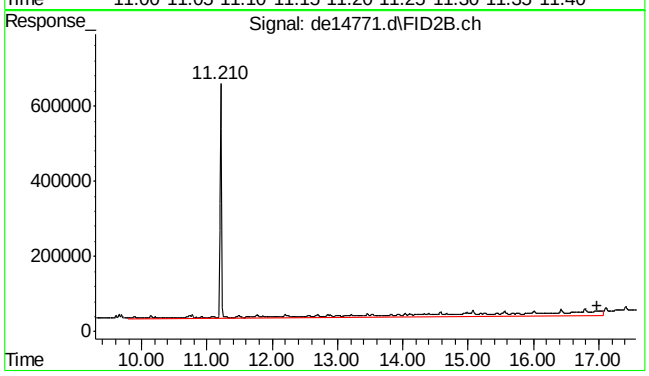
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 771561
Conc: 9.15 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.210 min
Delta R.T.: -0.005 min
Response: 845708
Conc: 12.98 µg/ml



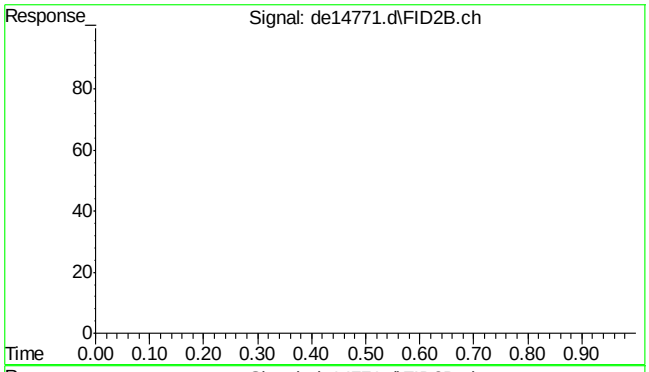
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 2132119
Conc: 27.40 µg/ml m

9.1.7

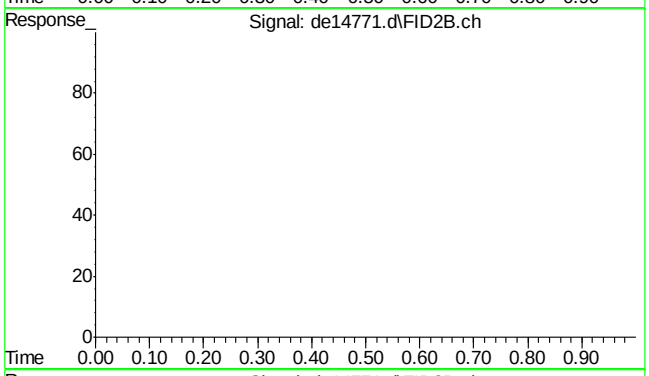
9

SGS ACCUTEST MC46423



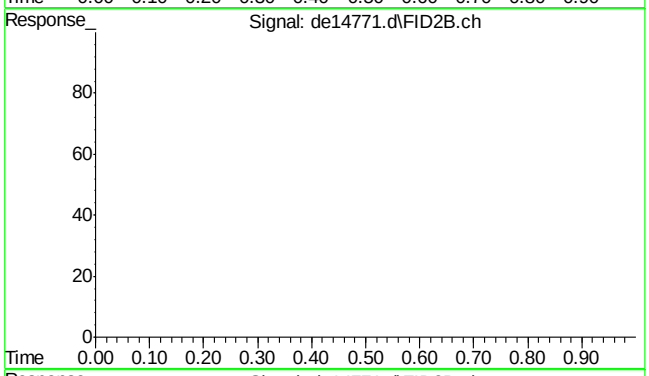
#42 bht

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



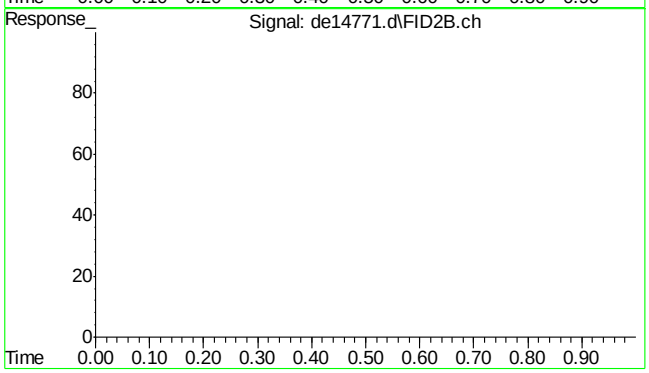
#43 bht

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\DE160630EPH\
Data File : de14764.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 2:07 pm
Operator : thomasa
Sample : op47988-mb
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:37:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.495	1518939	13.269 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 66.34%#		
6) s 2-bromonaphthalene	7.217	1038291	14.480 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 72.40%#		
11) s o-terphenyl	9.750	1648503	12.460 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 62.30%#		
35) s 1-chlorooctadecane	11.212	593730	9.113 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 45.56%#		
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	2119912	16.992 µg/mlm
25) h c-9	2.647	580878	6.890 µg/mlm
41) h c-36	16.983	857482	11.018 µg/mlm

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

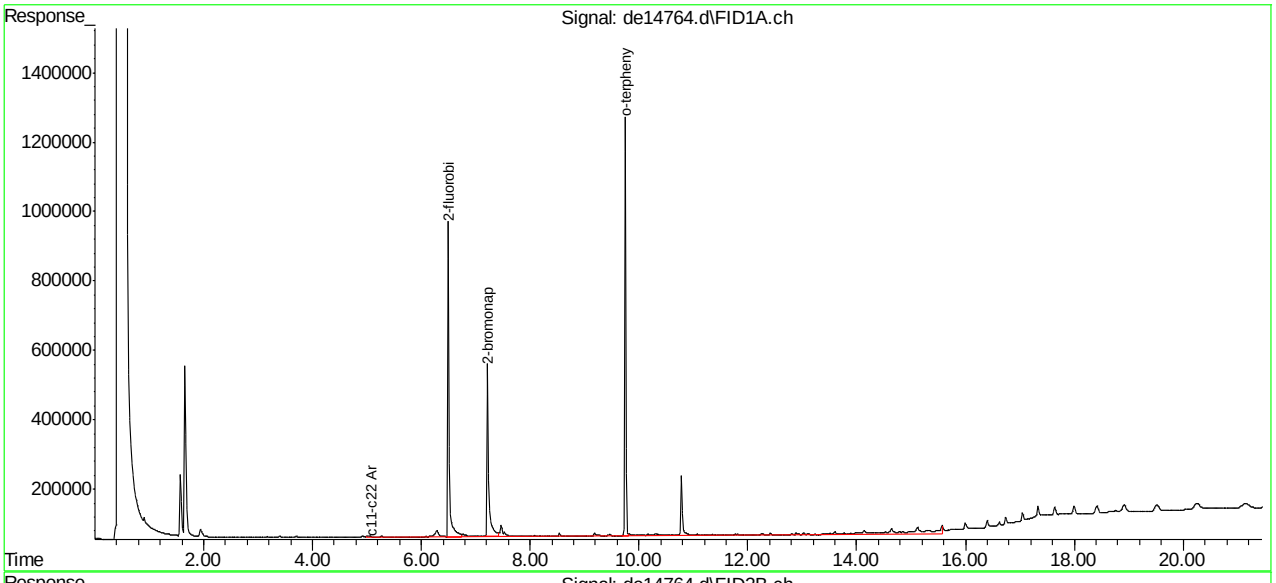
SGS ACCUTEST MC46423

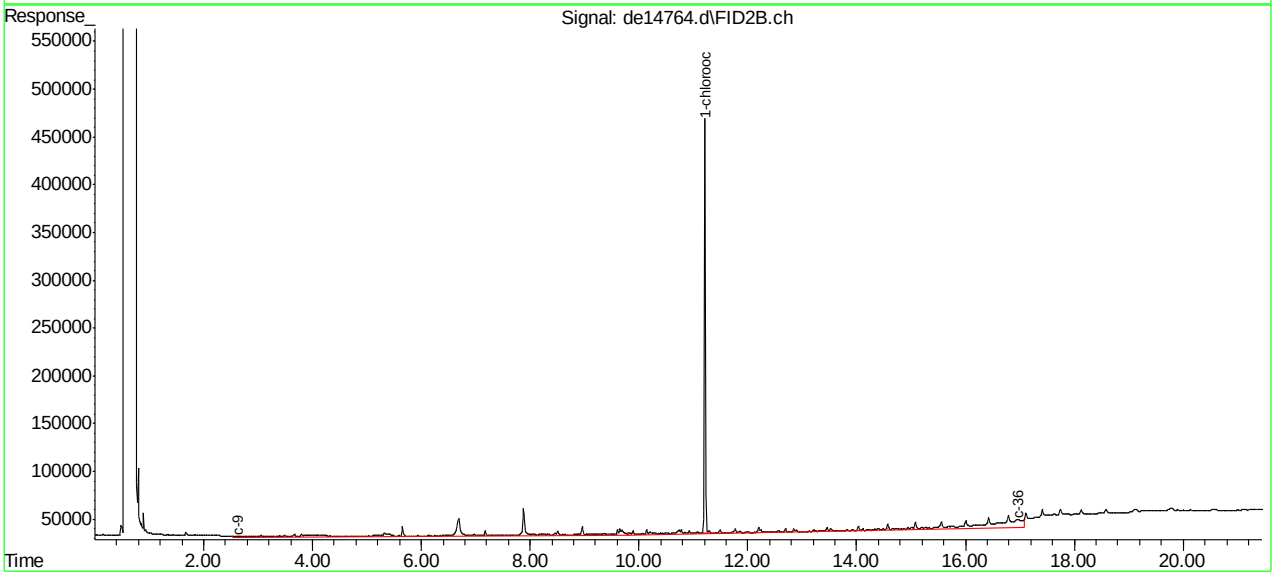
Quantitation Report (QT Reviewed)

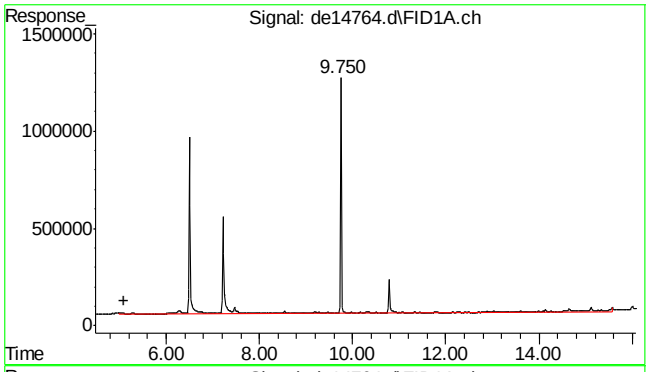
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14764.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 2:07 pm
Operator : thomasa
Sample : op47988-mb
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:37:08 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

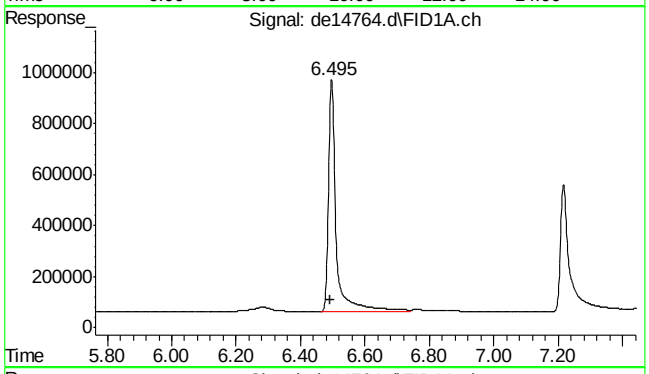






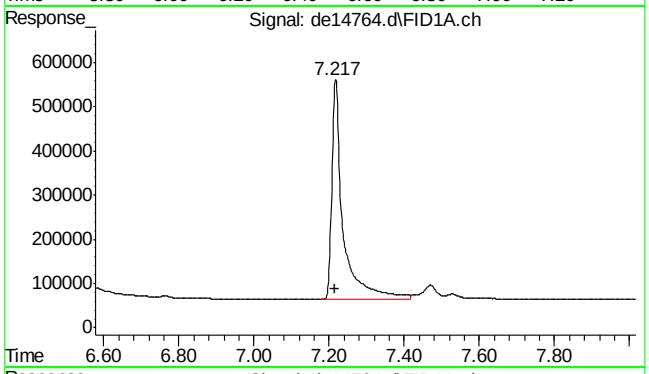
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2119912
Conc: 16.99 µg/ml m



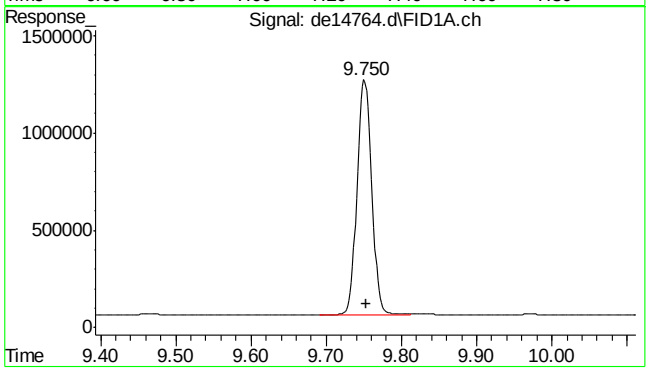
#4 2-fluorobiphenyl

R.T.: 6.495 min
Delta R.T.: 0.002 min
Response: 1518939
Conc: 13.27 µg/ml



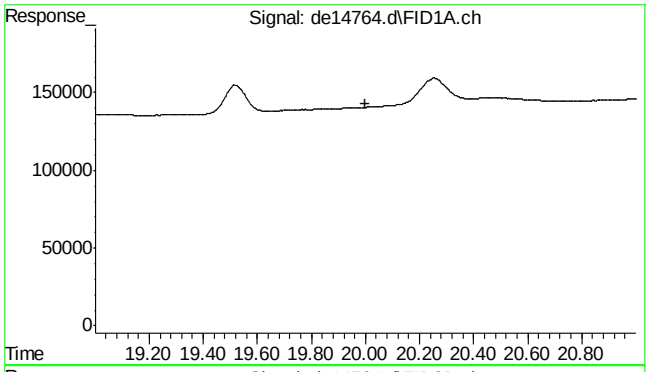
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1038291
Conc: 14.48 µg/ml



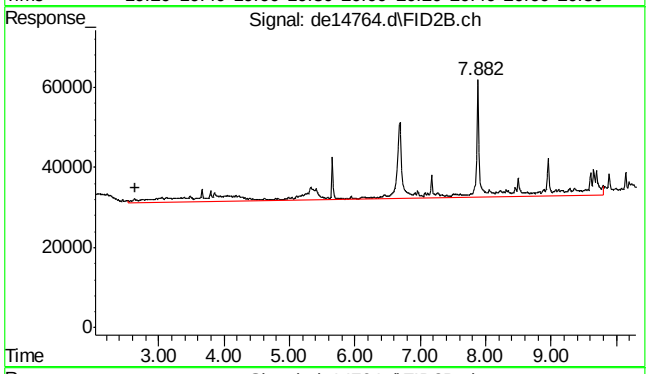
#11 o-terphenyl

R.T.: 9.750 min
Delta R.T.: -0.003 min
Response: 1648503
Conc: 12.46 µg/ml



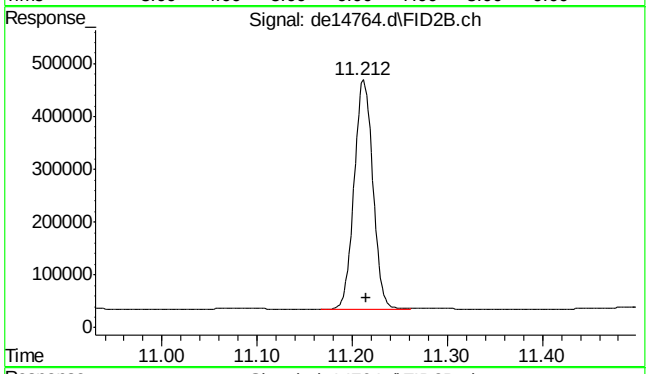
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



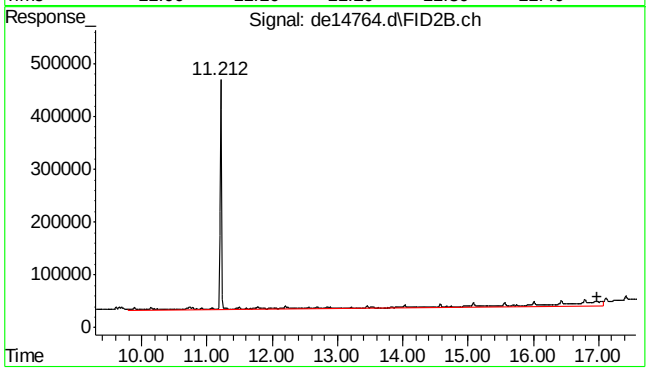
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 580878
Conc: 6.89 µg/ml m



#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 593730
Conc: 9.11 µg/ml



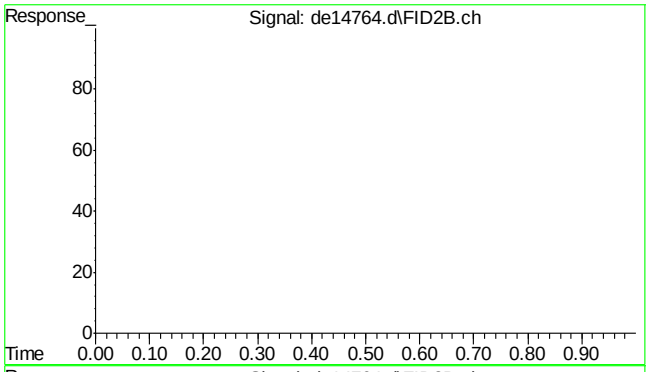
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 857482
Conc: 11.02 µg/ml m

9.2.1

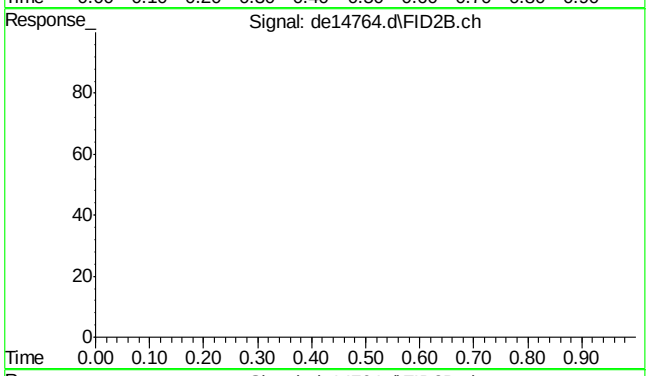
9

SGS ACCUTEST MC46423



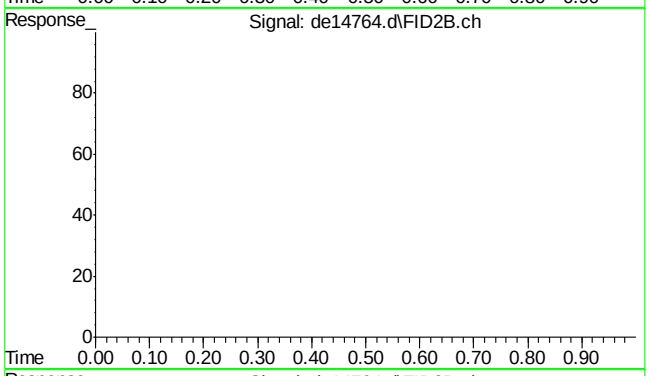
#42 bht

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



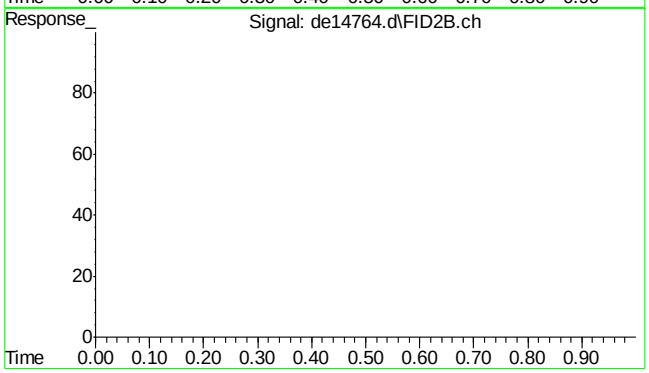
#43 bht

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 MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
07/01/16 09:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:37:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.502	1992786	17.408 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 87.04%#	
6) s 2-bromonaphthalene	7.222	1240744	17.304 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 86.52%#	
11) s o-terphenyl	9.757	2024268	15.300 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 76.50%#	
35) s 1-chlorooctadecane	11.215	928131	14.245 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 71.22%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	43420357	348.041 µg/mlm
2) naphthalene	5.047	1843102	14.682 µg/ml
3) 2-methylnaphthalene	5.947	1923118	15.245 µg/ml
5) acenaphthylene	7.053	2060209	16.283 µg/ml
7) acenaphthene	7.293	2244124	16.112 µg/mlm
8) fluorene	7.938	2187775	17.030 µg/ml
9) phenanthrene	9.112	2205786	17.658 µg/ml
10) anthracene	9.168	2434072	18.296 µg/ml
12) fluoranthene	10.608	2443544	19.051 µg/ml
13) pyrene	10.862	2478113	18.868 µg/ml
14) benzo(a)anthracene	12.422	2395600	19.720 µg/mlm
15) chrysene	12.470	2463452	19.299 µg/mlm
16) benzo(B)fluoranthene	13.715	2254238	19.040 µg/ml
17) benzo(k)fluoranthene	13.742	2494988	19.487 µg/ml
18) benzo(a)pyrene	14.045	2340923	19.845 µg/ml
19) indeno(1,2,3-cd)pyrene	15.185	2321563	19.835 µg/mlm
20) dibenzo(ah)anthracene	15.228	2308682	20.375 µg/mlm
21) benzo(ghi)perylene	15.405	2298698	20.257 µg/ml
25) h c-9	2.647	932958	11.066 µg/mlm
26) h c-10	3.800	1178534	13.979 µg/ml
28) c-12	5.653	1334165	15.825 µg/ml
30) c-14	7.172	1413606	16.768 µg/ml
31) c-16	8.500	1444099	17.129 µg/ml
32) c-18	9.695	1527467	18.118 µg/ml
33) c-19	10.250	1542191	19.816 µg/ml
34) c-20	10.780	1521775	19.554 µg/ml
36) c-22	11.775	1534908	19.723 µg/ml
37) c-24	12.693	1521348	19.549 µg/ml
38) c-26	13.545	1486560	19.102 µg/ml
39) c-28	14.340	1448549	18.613 µg/ml

SGS ACCUTEST MC46423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:37:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
40) h c-30	15.082	1436520	18.459 µg/ml
41) h c-36	16.983	1072093	13.776 µg/mlm

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

9.3.1

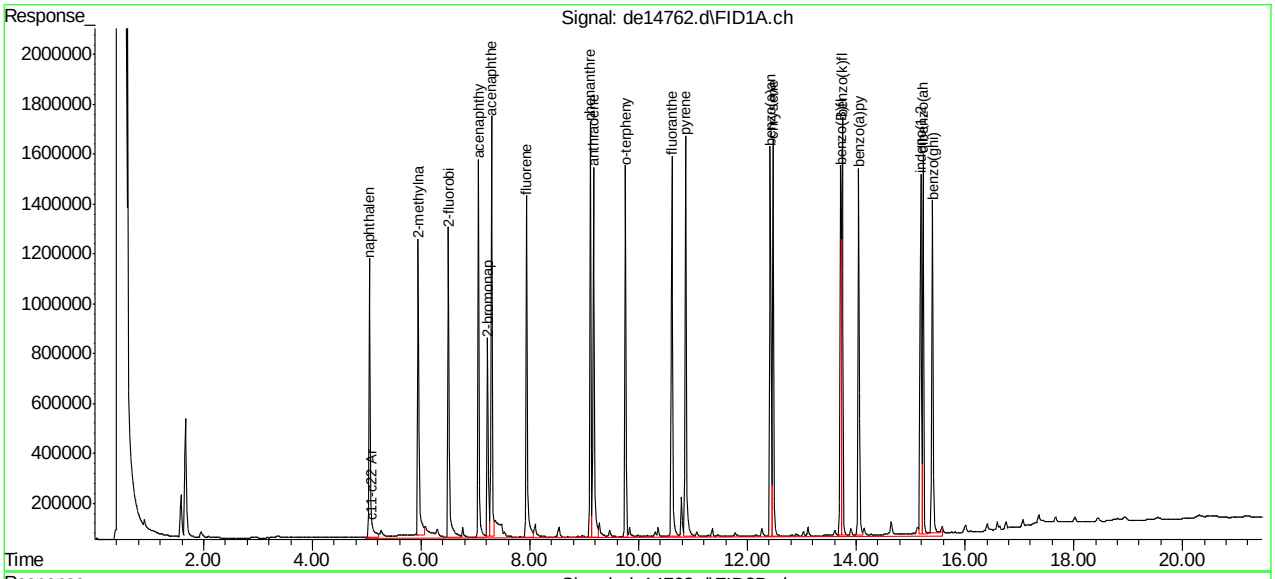
9

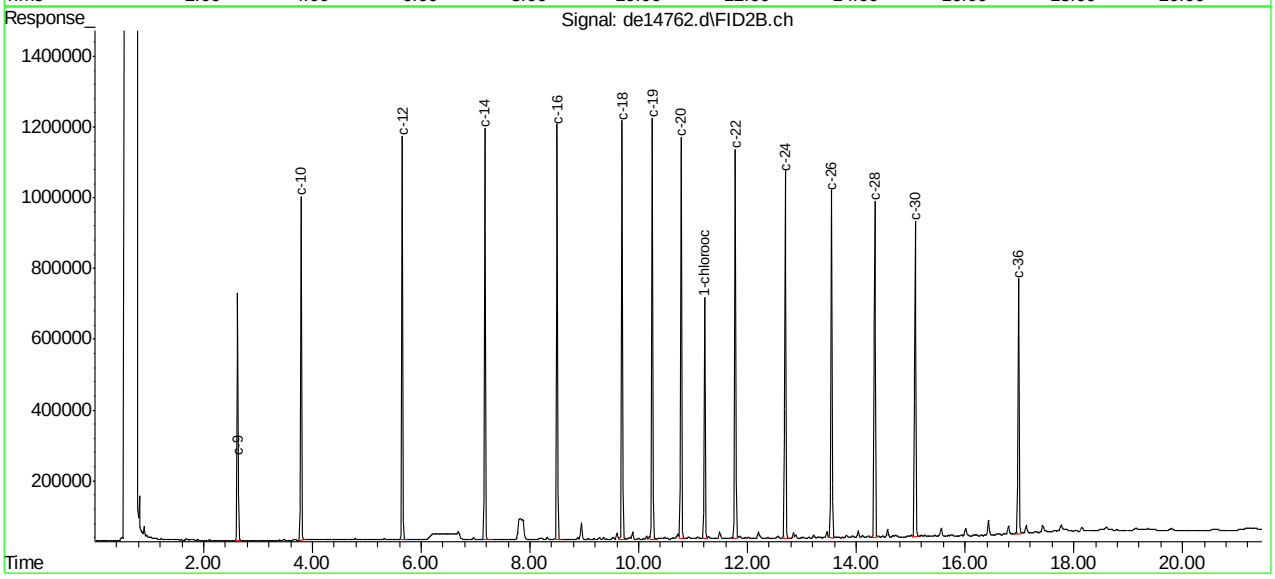
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

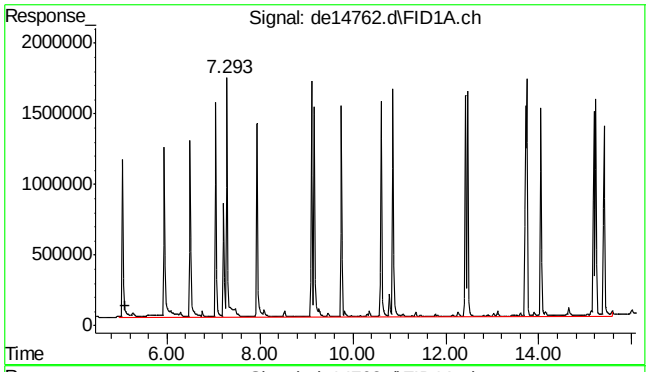
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:37:27 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



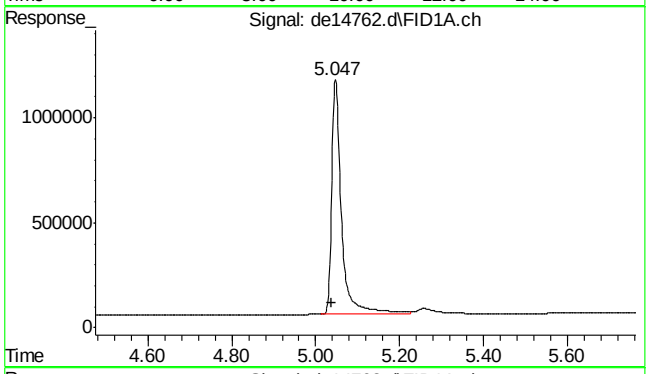


SGS ACCUTEST MC46423



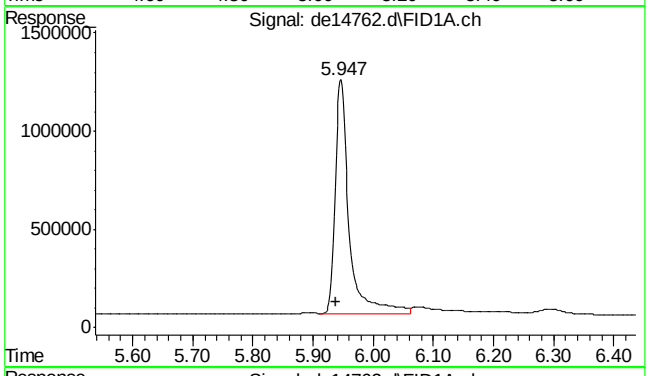
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 43420357
Conc: 348.04 µg/ml m



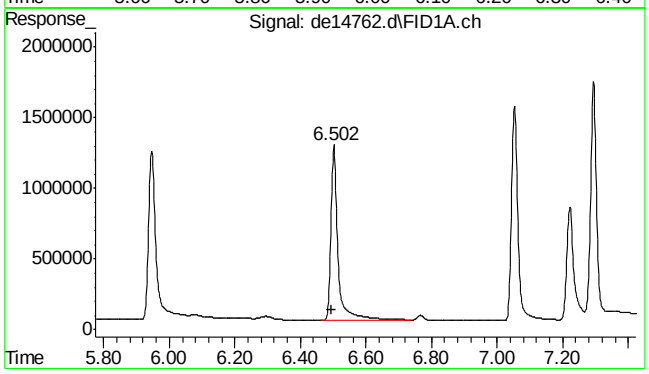
#2 naphthalene

R.T.: 5.047 min
Delta R.T.: 0.008 min
Response: 1843102
Conc: 14.68 µg/ml



#3 2-methylnaphthalene

R.T.: 5.947 min
Delta R.T.: 0.008 min
Response: 1923118
Conc: 15.25 µg/ml



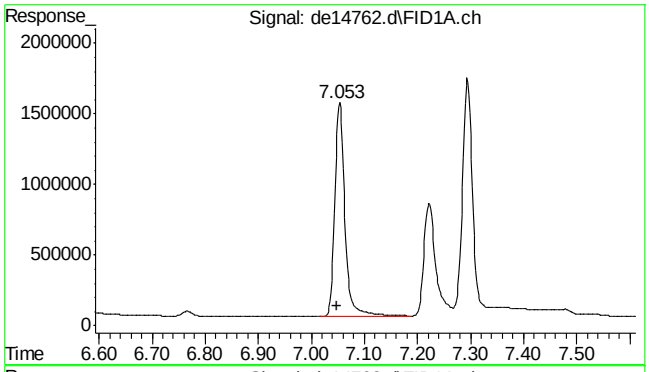
#4 2-fluorobiphenyl

R.T.: 6.502 min
Delta R.T.: 0.008 min
Response: 1992786
Conc: 17.41 µg/ml

9.3.1

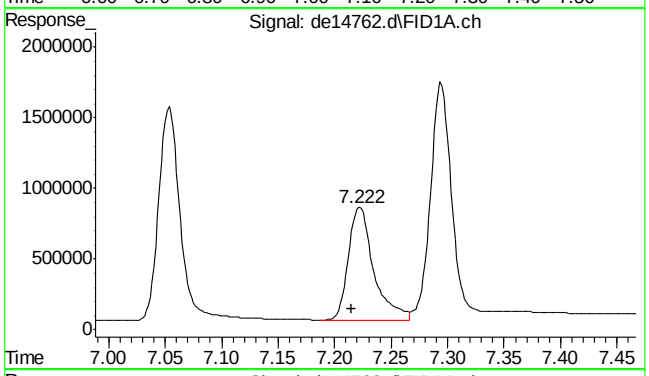
9

SGS ACCUTEST MC46423



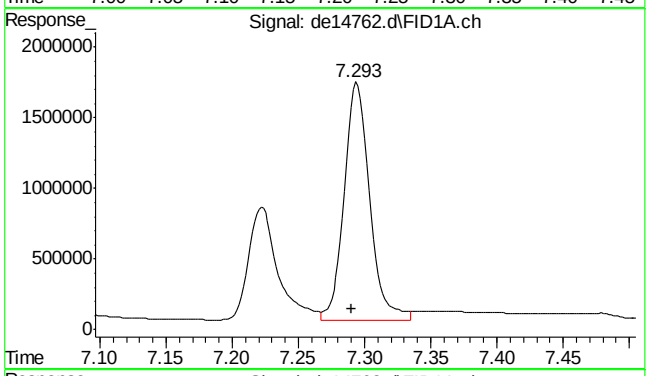
#5 acenaphthylene

R.T.: 7.053 min
Delta R.T.: 0.005 min
Response: 2060209
Conc: 16.28 µg/ml



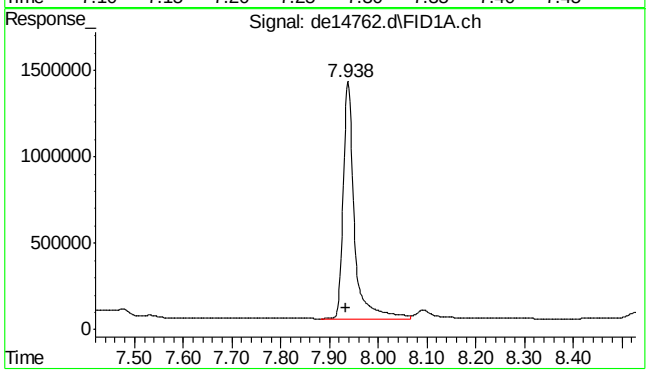
#6 2-bromonaphthalene

R.T.: 7.222 min
Delta R.T.: 0.007 min
Response: 1240744
Conc: 17.30 µg/ml



#7 acenaphthene

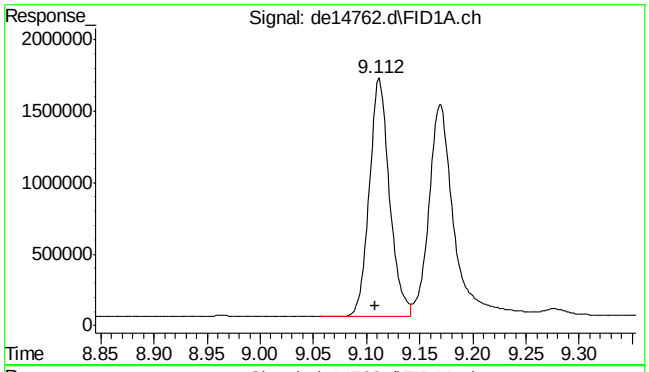
R.T.: 7.293 min
Delta R.T.: 0.003 min
Response: 2244124
Conc: 16.11 µg/ml m



#8 fluorene

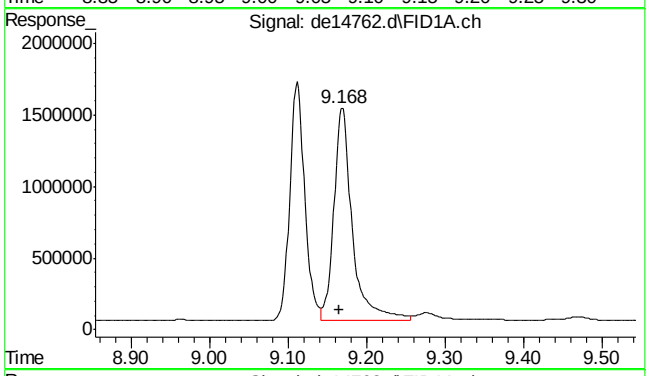
R.T.: 7.938 min
Delta R.T.: 0.005 min
Response: 2187775
Conc: 17.03 µg/ml

SGS ACCUTEST MC46423



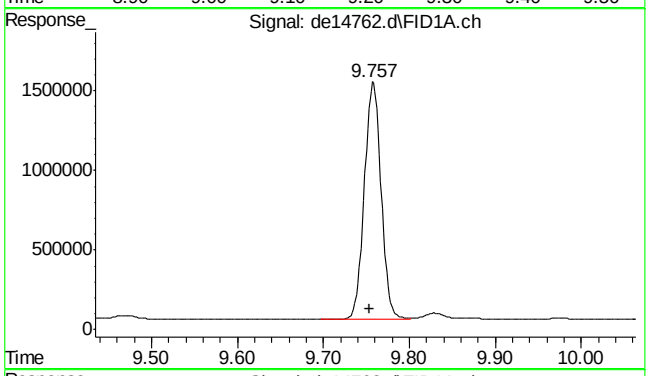
#9 phenanthrene

R.T.: 9.112 min
Delta R.T.: 0.003 min
Response: 2205786
Conc: 17.66 µg/ml



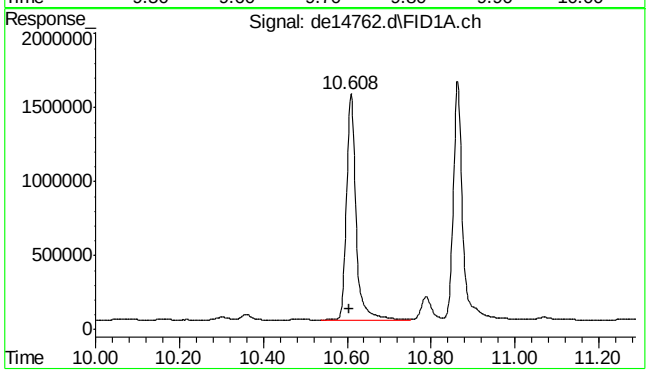
#10 anthracene

R.T.: 9.168 min
Delta R.T.: 0.003 min
Response: 2434072
Conc: 18.30 µg/ml



#11 o-terphenyl

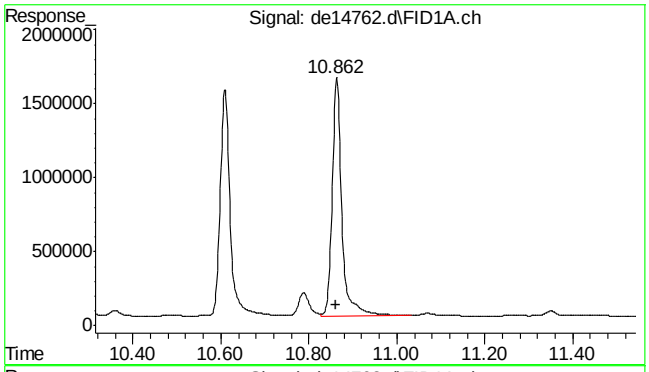
R.T.: 9.757 min
Delta R.T.: 0.003 min
Response: 2024268
Conc: 15.30 µg/ml



#12 fluoranthene

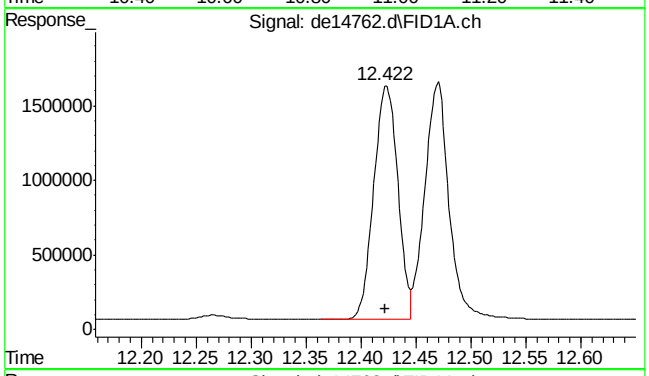
R.T.: 10.608 min
Delta R.T.: 0.002 min
Response: 2443544
Conc: 19.05 µg/ml

SGS ACCUTEST MC46423



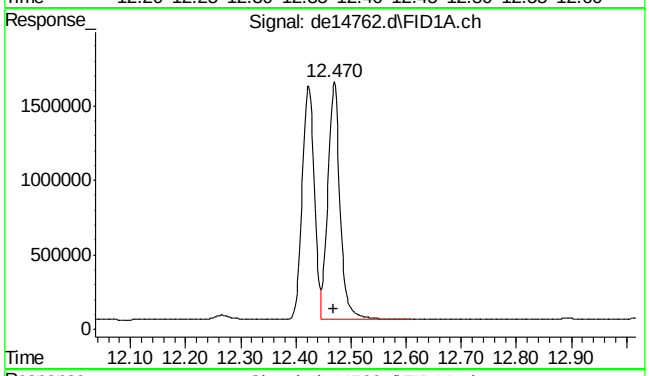
#13 pyrene

R.T.: 10.862 min
Delta R.T.: 0.000 min
Response: 2478113
Conc: 18.87 µg/ml



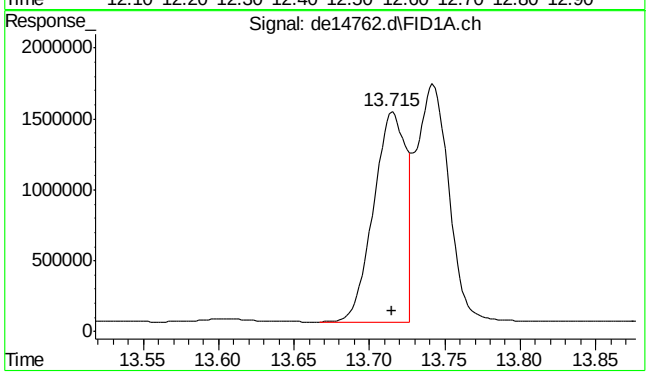
#14 benzo(a)anthracene

R.T.: 12.422 min
Delta R.T.: 0.000 min
Response: 2395600
Conc: 19.72 µg/ml m



#15 chrysene

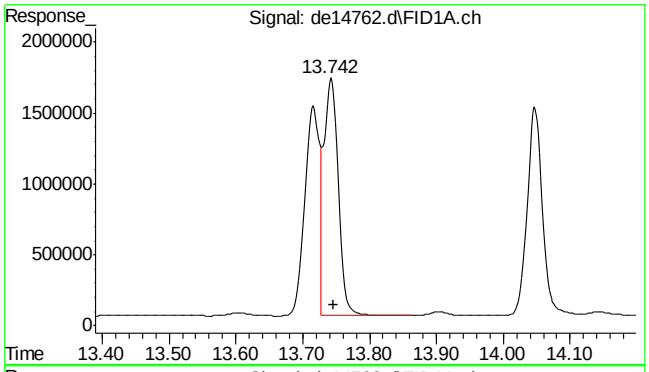
R.T.: 12.470 min
Delta R.T.: 0.002 min
Response: 2463452
Conc: 19.30 µg/ml m



#16 benzo(B)fluoranthene

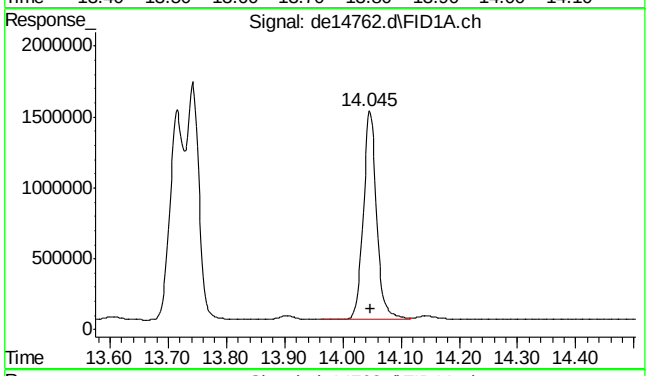
R.T.: 13.715 min
Delta R.T.: 0.000 min
Response: 2254238
Conc: 19.04 µg/ml

SGS ACCUTEST MC46423



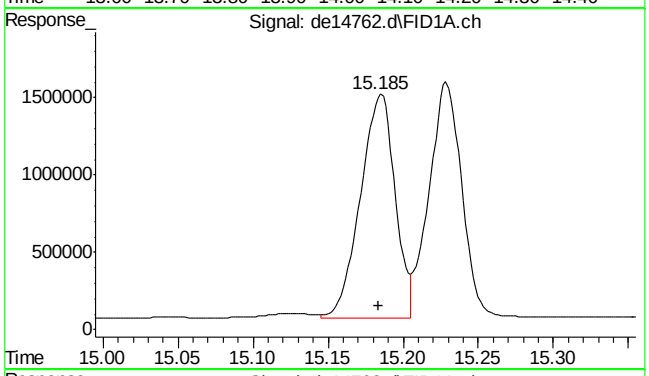
#17 benzo(k)fluoranthene

R.T.: 13.742 min
Delta R.T.: -0.005 min
Response: 2494988
Conc: 19.49 µg/ml



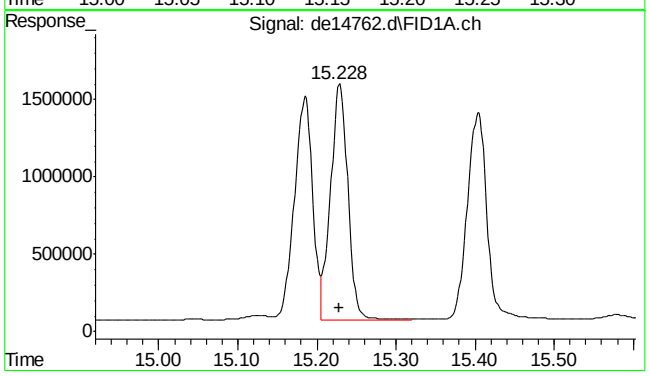
#18 benzo(a)pyrene

R.T.: 14.045 min
Delta R.T.: -0.003 min
Response: 2340923
Conc: 19.85 µg/ml



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

R.T.: 15.185 min
Delta R.T.: 0.002 min
Response: 2321563
Conc: 19.83 µg/ml m



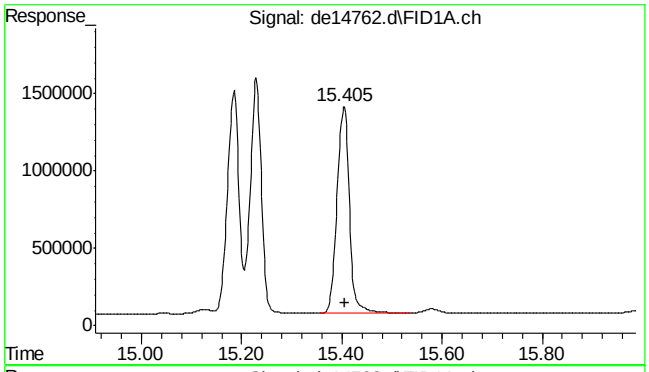
#20 dibenzo(ah)anthracene

R.T.: 15.228 min
Delta R.T.: 0.000 min
Response: 2308682
Conc: 20.38 µg/ml m

9.3.1

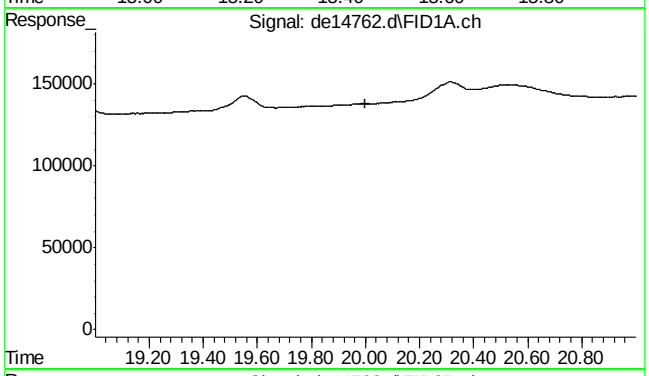
9

SGS ACCUTEST MC46423



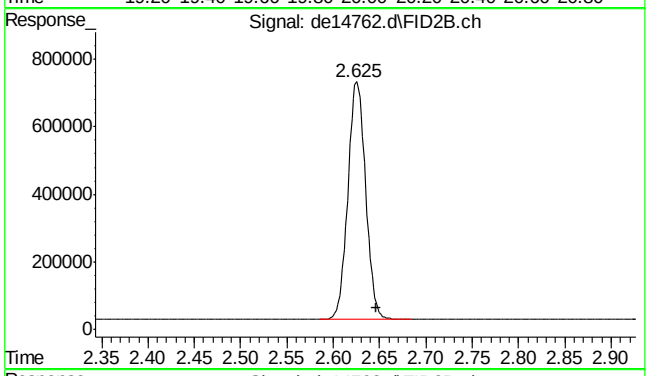
#21 benzo(ghi)perylene

R.T.: 15.405 min
Delta R.T.: 0.000 min
Response: 2298698
Conc: 20.26 µg/ml



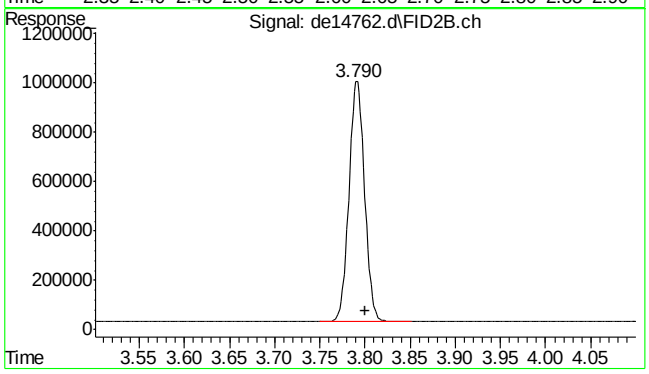
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 932958
Conc: 11.07 µg/ml m



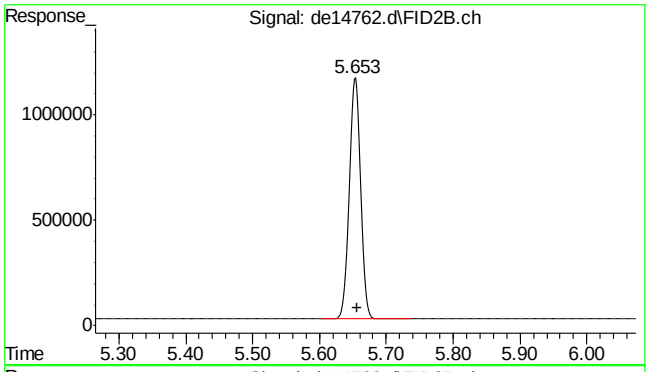
#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 1178534
Conc: 13.98 µg/ml

9.3.1

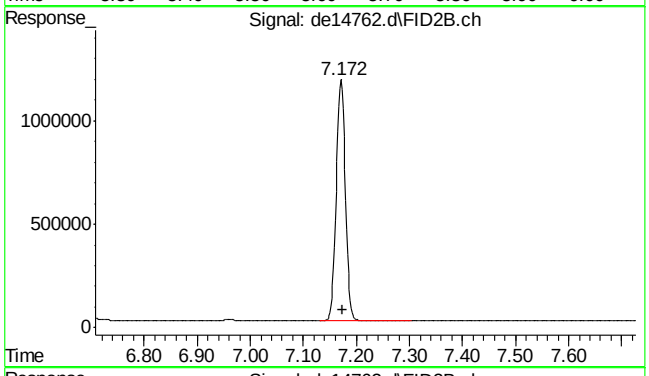
9

SGS ACCUTEST MC46423



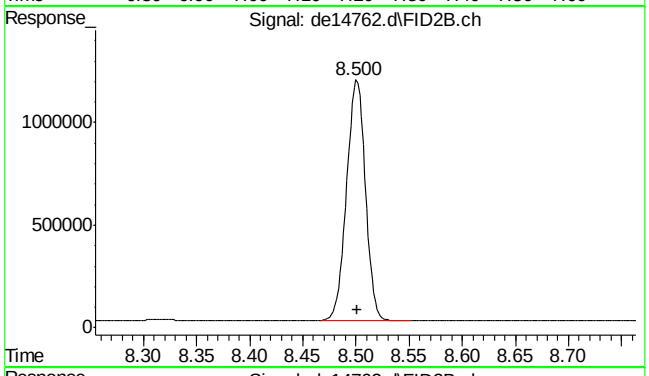
#28 c-12

R.T.: 5.653 min
Delta R.T.: -0.003 min
Response: 1334165
Conc: 15.83 µg/ml



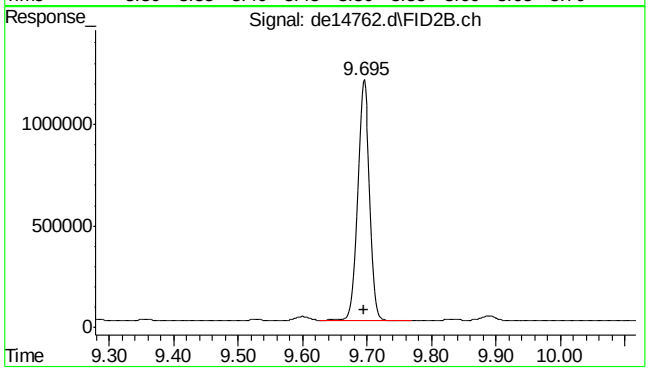
#30 c-14

R.T.: 7.172 min
Delta R.T.: -0.002 min
Response: 1413606
Conc: 16.77 µg/ml



#31 c-16

R.T.: 8.500 min
Delta R.T.: -0.002 min
Response: 1444099
Conc: 17.13 µg/ml



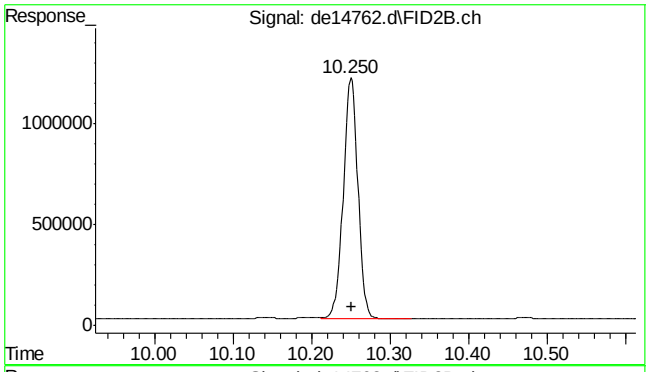
#32 c-18

R.T.: 9.695 min
Delta R.T.: 0.000 min
Response: 1527467
Conc: 18.12 µg/ml

9.3.1

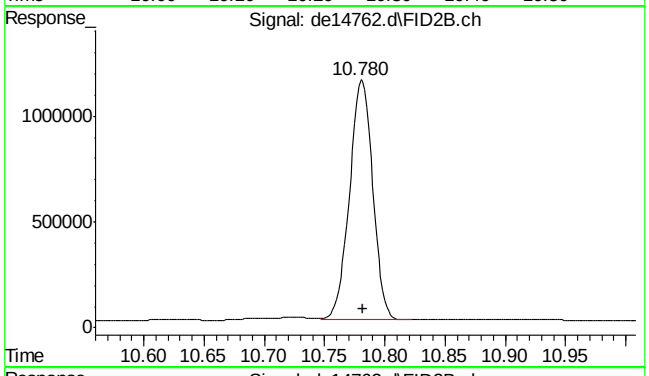
9

SGS ACCUTEST MC46423



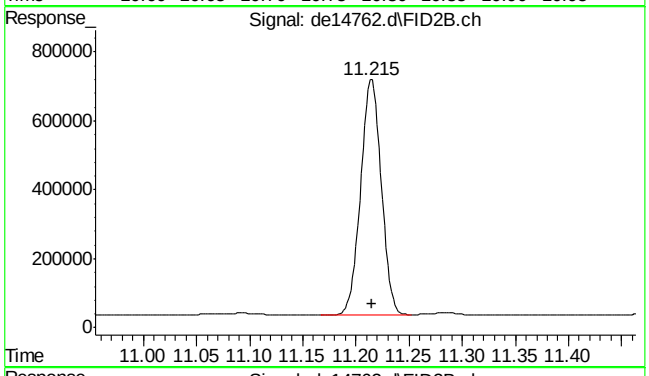
#33 c-19

R.T.: 10.250 min
Delta R.T.: -0.002 min
Response: 1542191
Conc: 19.82 µg/ml



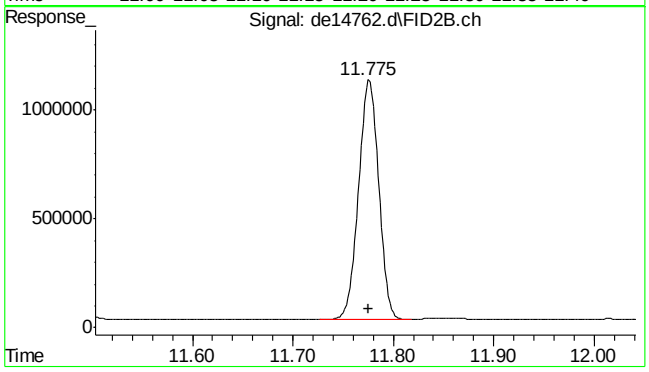
#34 c-20

R.T.: 10.780 min
Delta R.T.: -0.002 min
Response: 1521775
Conc: 19.55 µg/ml



#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: 0.000 min
Response: 928131
Conc: 14.25 µg/ml



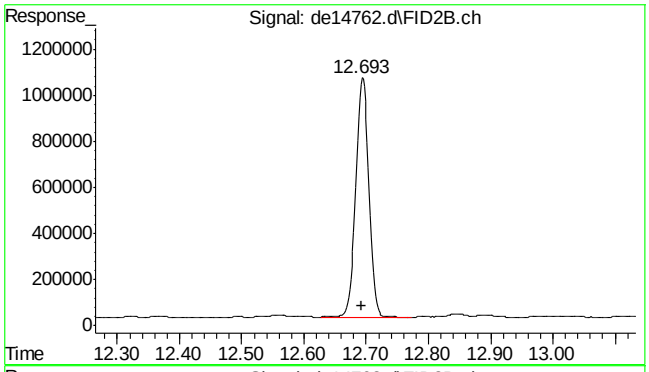
#36 c-22

R.T.: 11.775 min
Delta R.T.: 0.000 min
Response: 1534908
Conc: 19.72 µg/ml

9.3.1

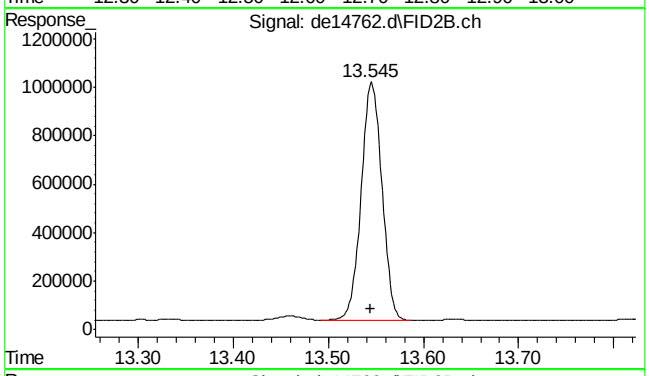
9

SGS ACCUTEST MC46423



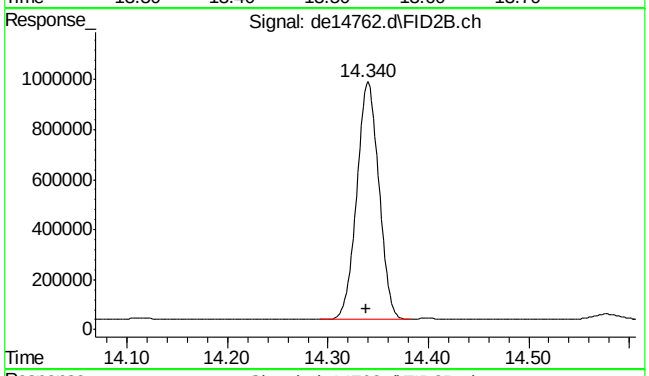
#37 c-24

R.T.: 12.693 min
Delta R.T.: 0.000 min
Response: 1521348
Conc: 19.55 µg/ml



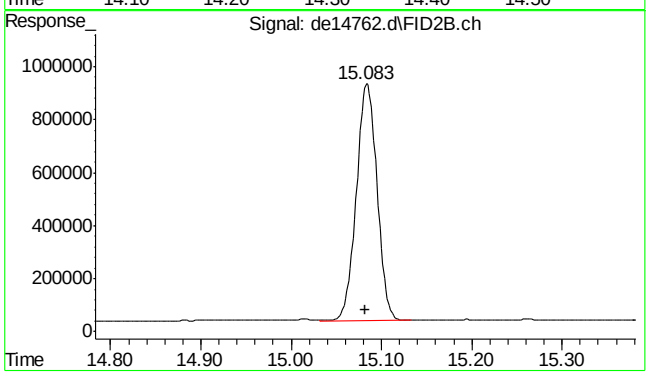
#38 c-26

R.T.: 13.545 min
Delta R.T.: 0.000 min
Response: 1486560
Conc: 19.10 µg/ml



#39 c-28

R.T.: 14.340 min
Delta R.T.: 0.002 min
Response: 1448549
Conc: 18.61 µg/ml



#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1436520
Conc: 18.46 µg/ml

9.3.1

9

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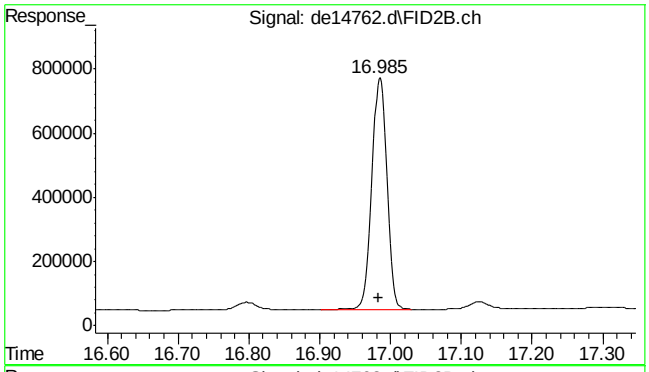
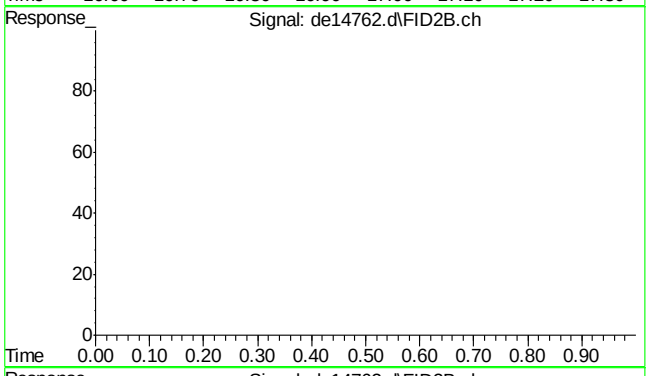


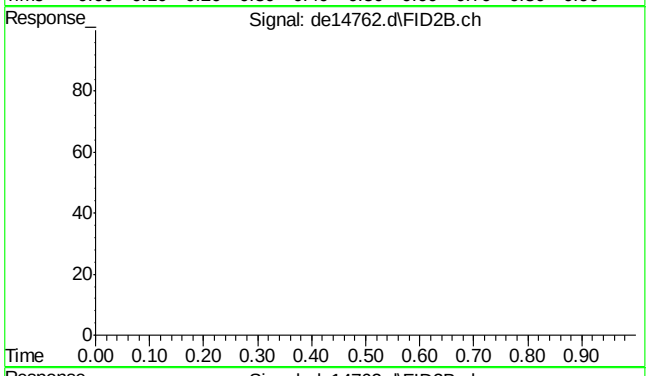
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1072093
Conc: 13.78 µg/ml m



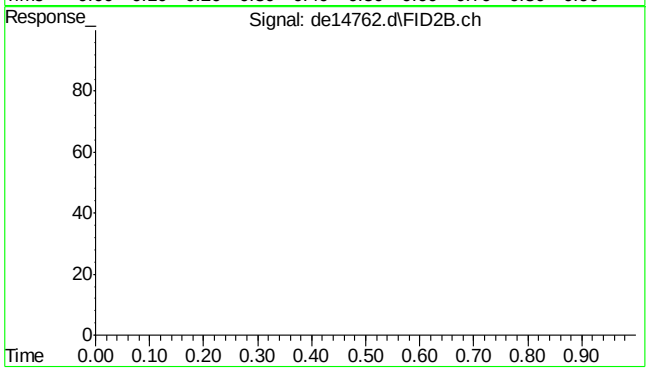
#42 bht

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.

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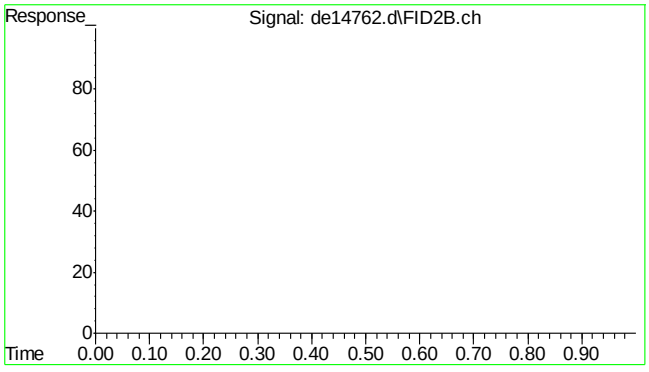


#45 bht

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

9.3.1

9

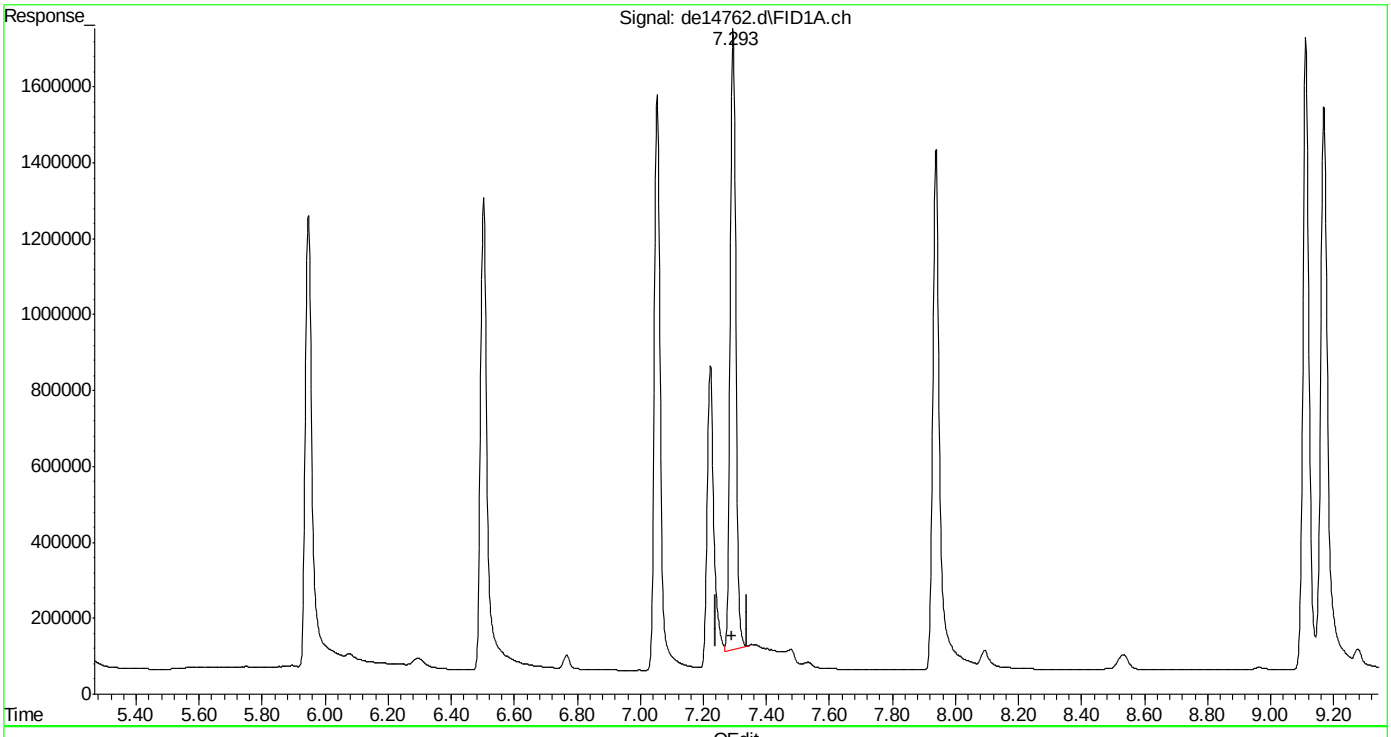
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 30 Jun 2016   1:12 pm
Operator  : thomasa
Sample    : op47988-bs
Misc      : op47988,gde820,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene

7.293min 14.626 µg/ml

response 2037169

(+) = Expected Retention Time

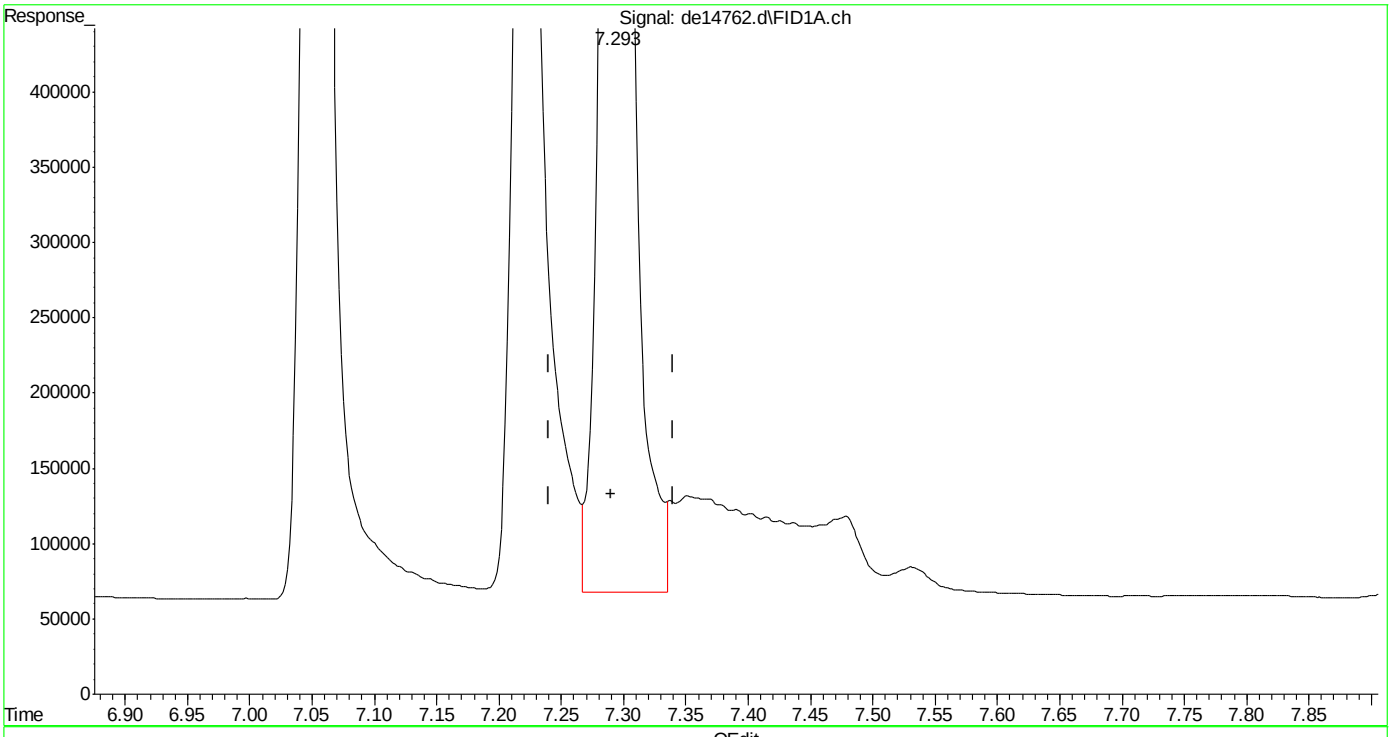
EPH160630W.M Thu Jun 30 13:35:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(7) acenaphthene
7.293min 16.112 µg/ml m
response 2244124

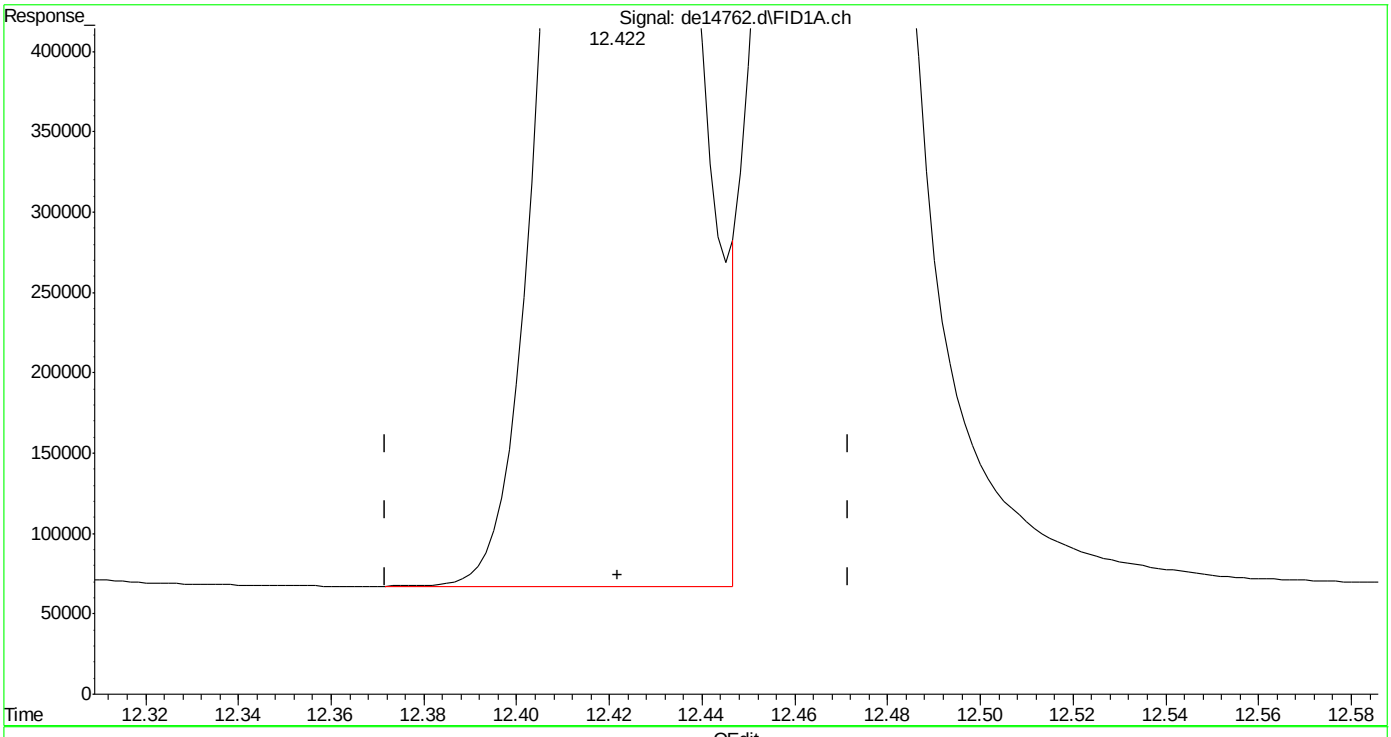
(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:35:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
12.422min 19.891 µg/ml
response 2416387

(+) = Expected Retention Time

EPH160630W.M Thu Jun 30 13:35:39 2016 Page: 1

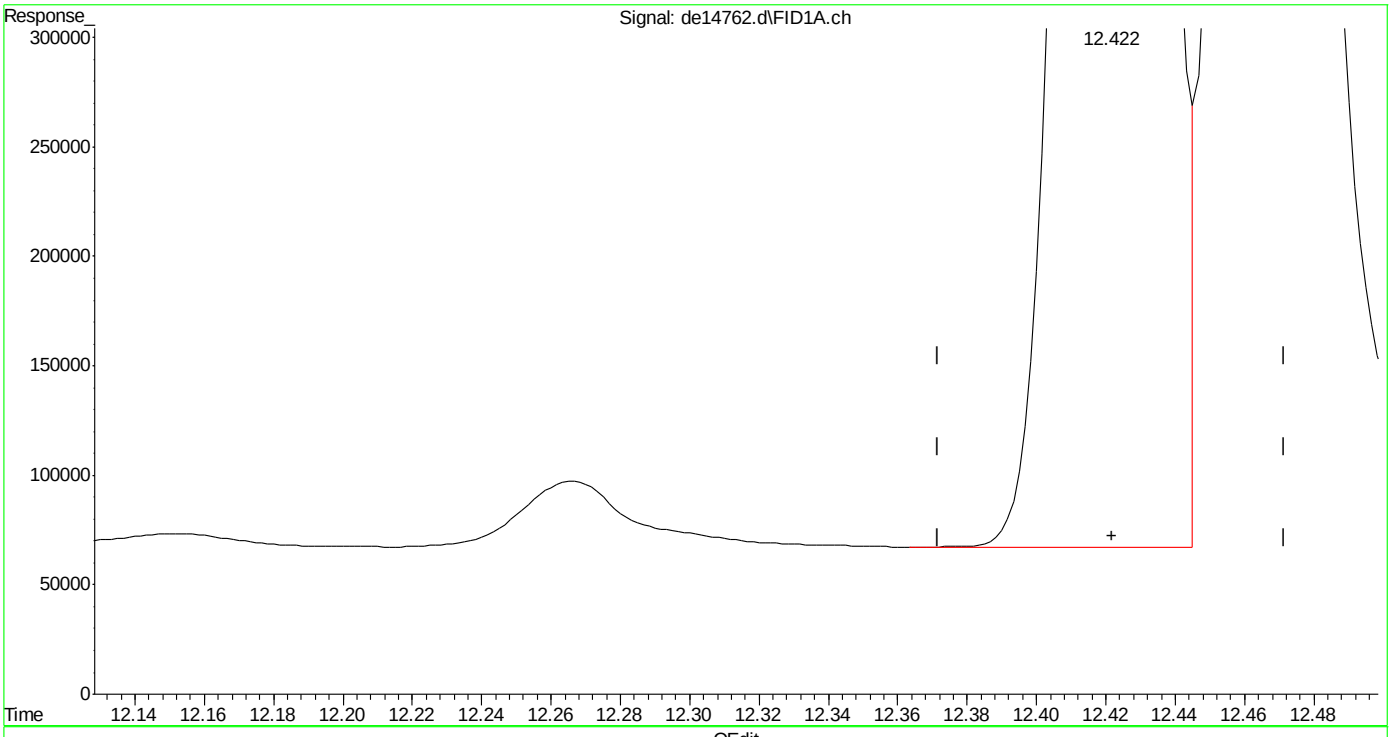
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
12.422min 19.720 µg/ml m
response 2395600

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:35:58 2016

Page: 1

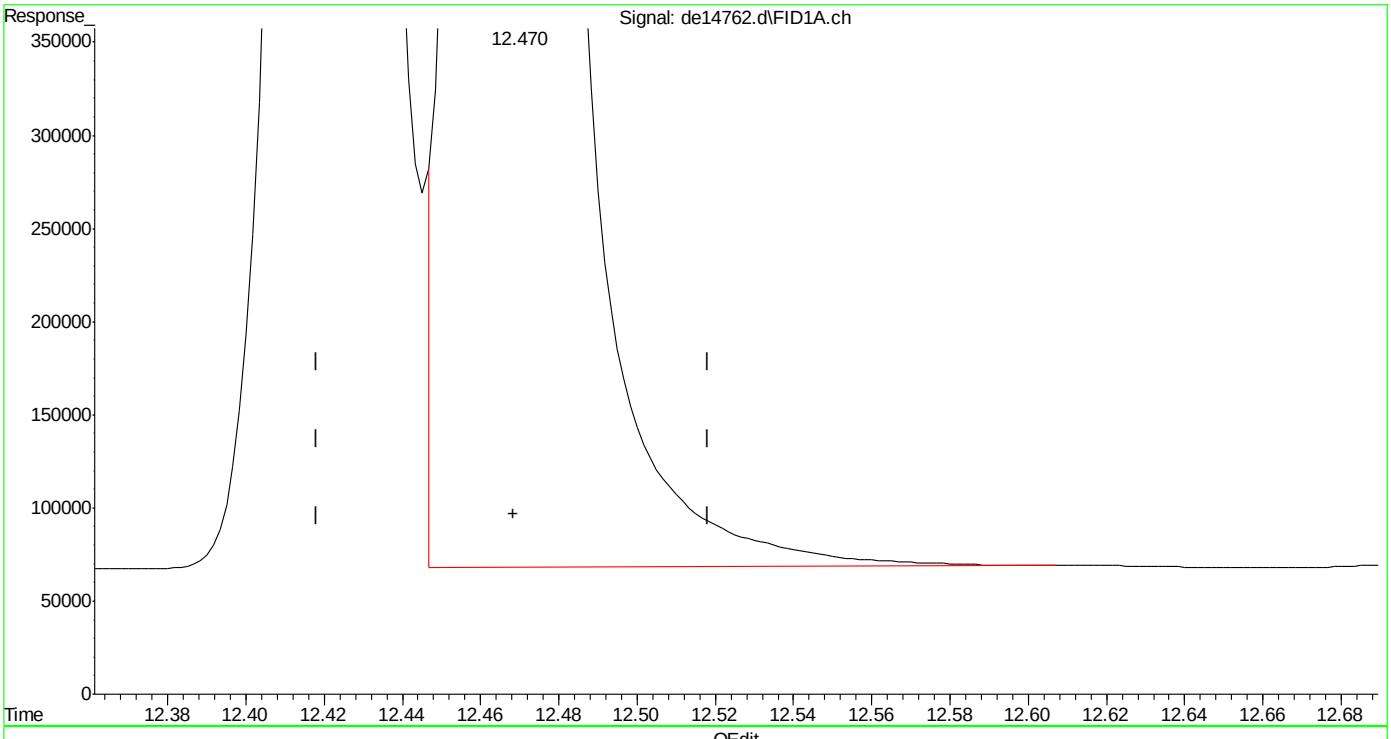
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.470min 19.004 µg/ml
response 2425843

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:36:02 2016

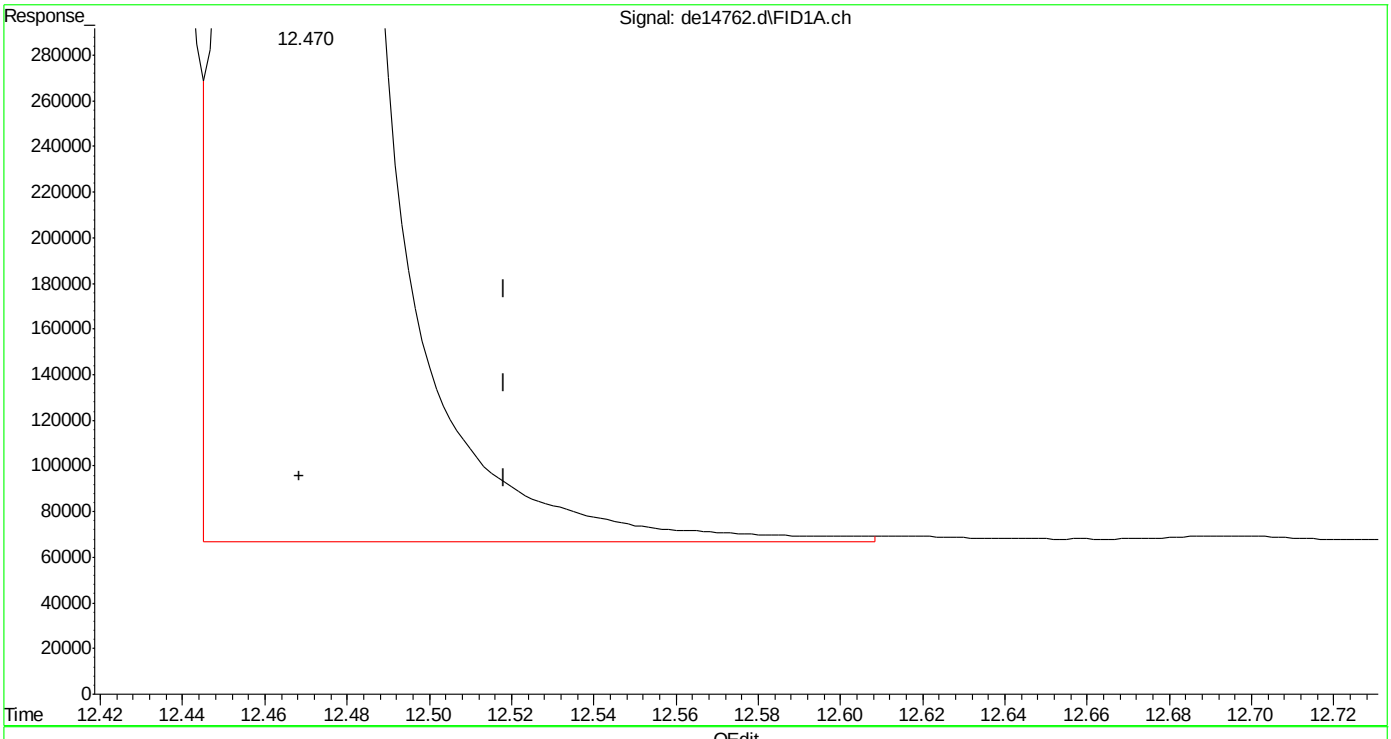
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 30 Jun 2016   1:12 pm
Operator  : thomasa
Sample    : op47988-bs
Misc      : op47988,gde820,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene

12.470min 19.299 µg/ml m

response 2463452

(+) = Expected Retention Time

EPH160630W.M Thu Jun 30 13:36:17 2016

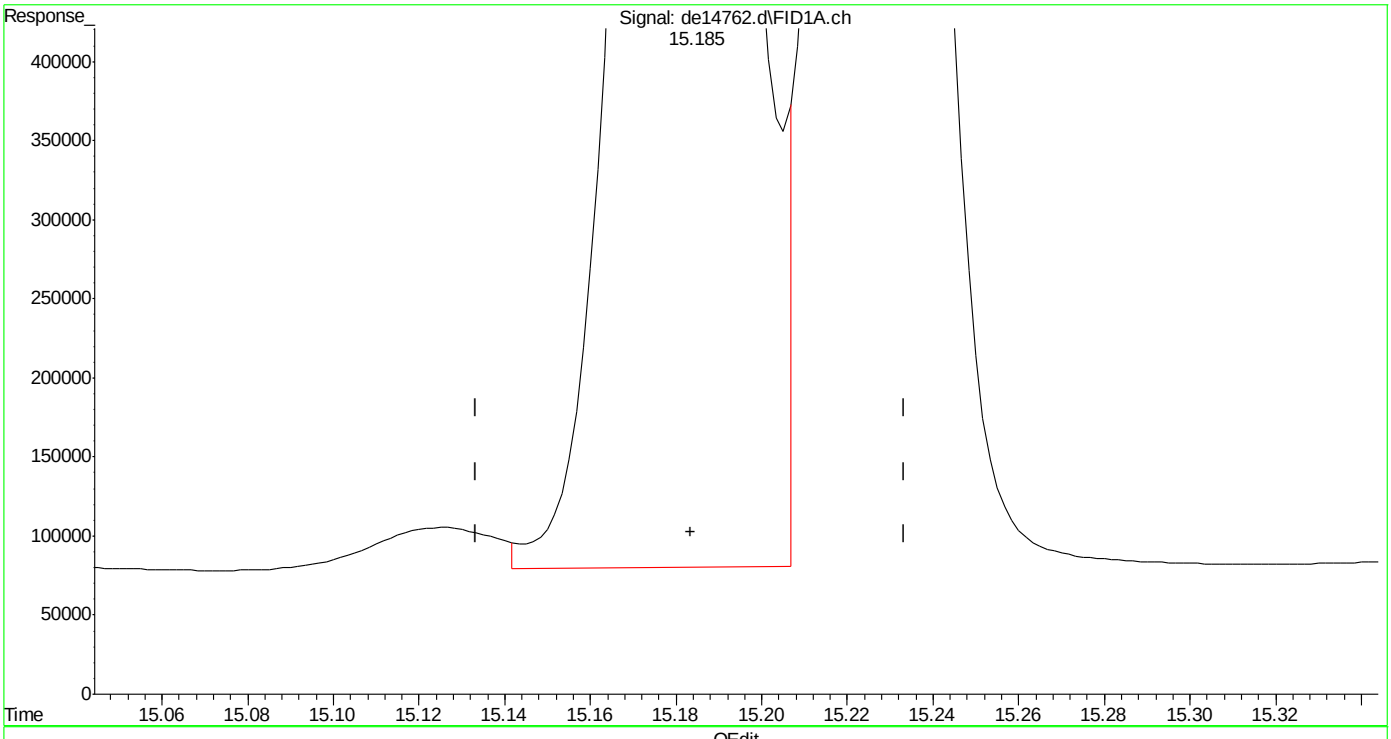
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.185min 20.052 µg/ml
response 2347032

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:36:24 2016

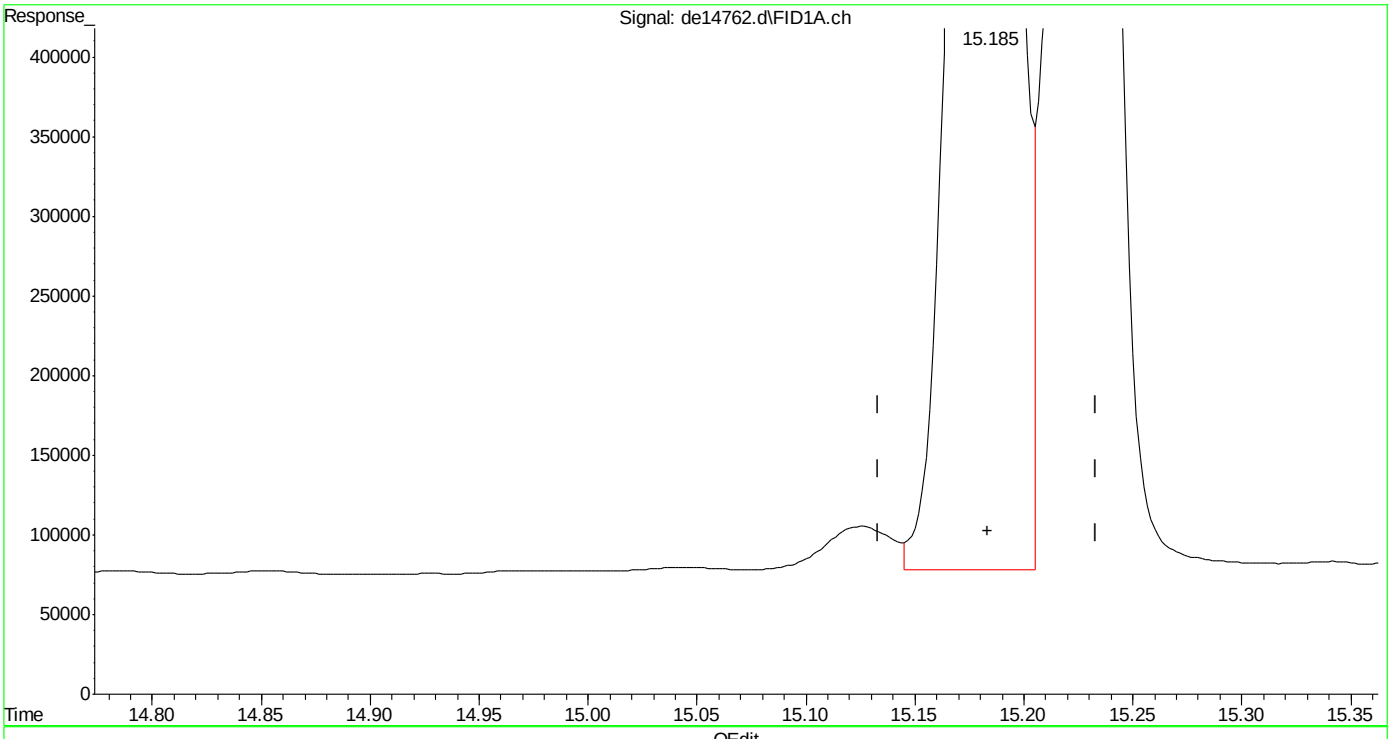
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.185min 19.835 µg/ml m
response 2321563

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:36:52 2016

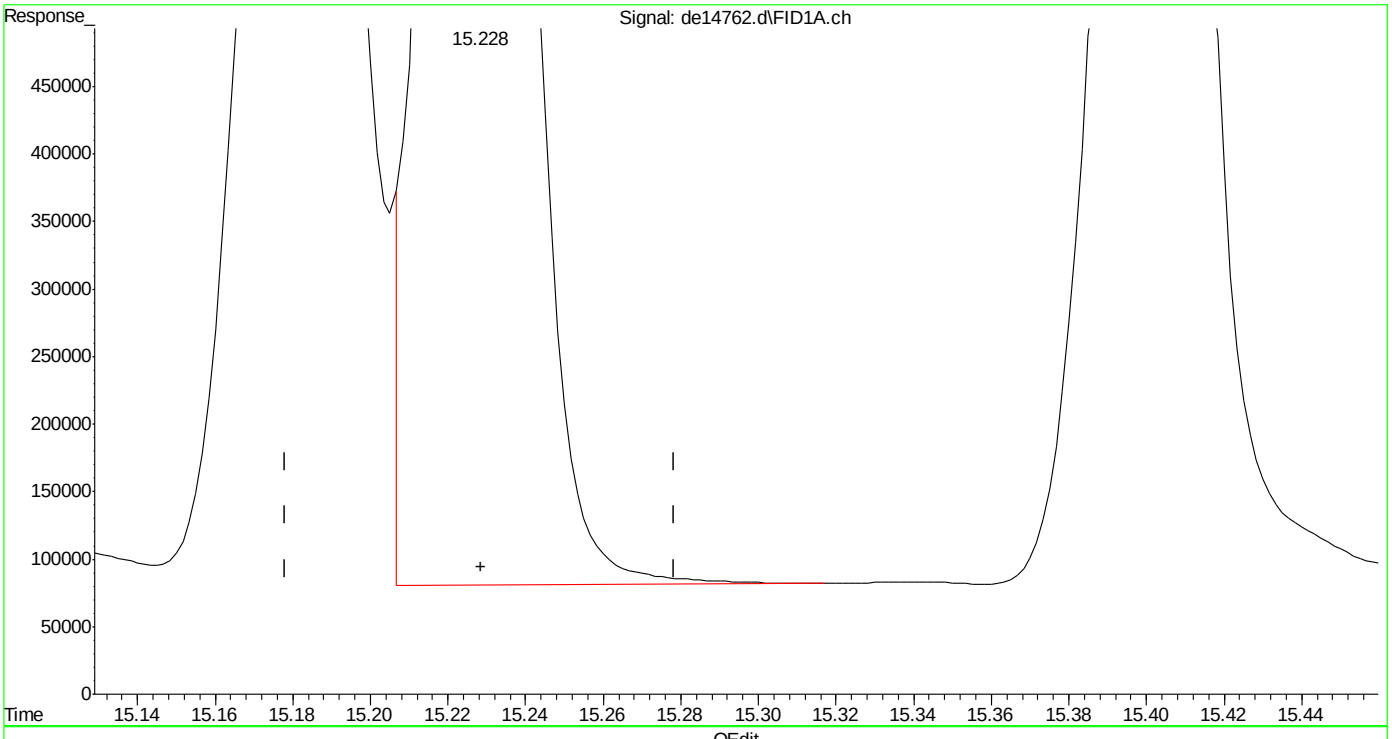
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.228min 19.935 µg/ml
response 2258761

(+) = Expected Retention Time

EPH160630W.M Thu Jun 30 13:36:56 2016

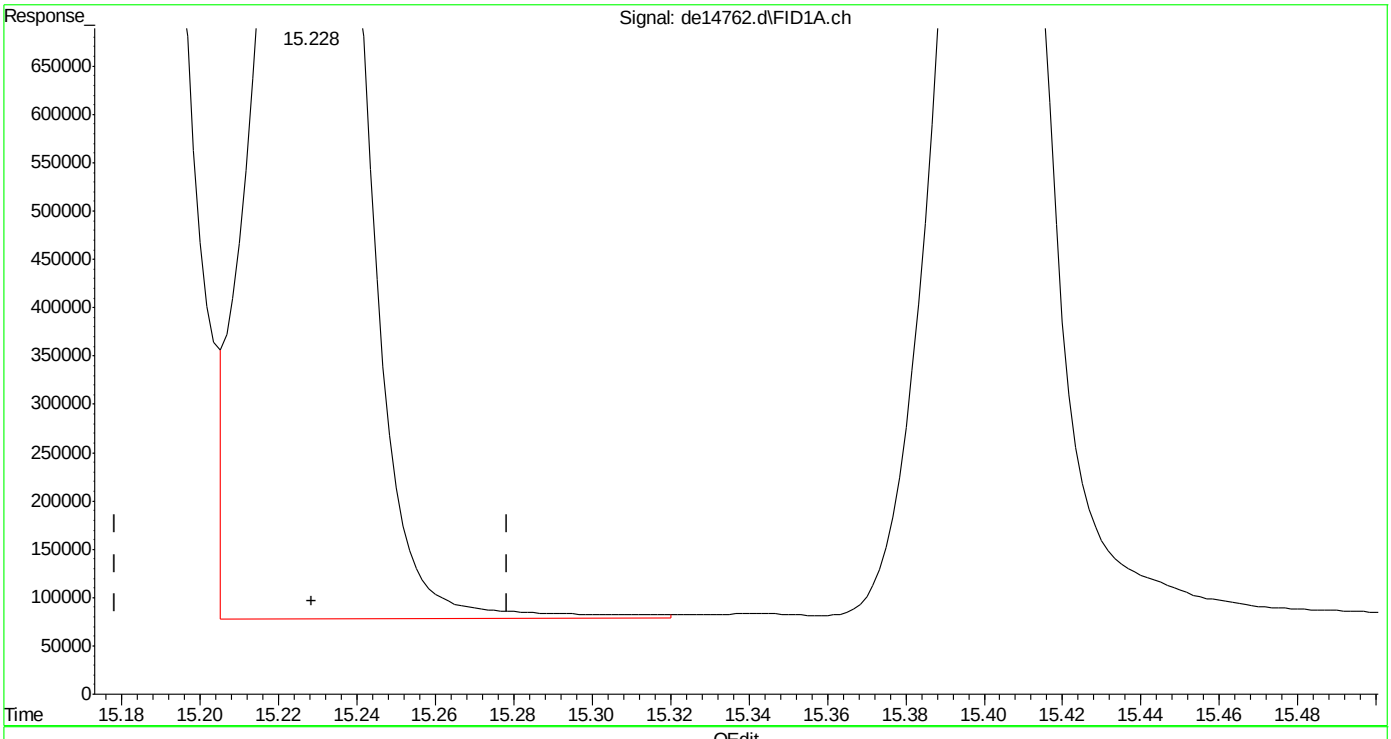
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14762.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:12 pm
Operator : thomasa
Sample : op47988-bs
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:34:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.228min 20.375 µg/ml m
response 2308682

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:37:06 2016

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
07/01/16 09:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:07:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.497	2161215	18.879 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 94.40%#	
6) s 2-bromonaphthalene	7.217	1393450	19.434 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 97.17%#	
11) s o-terphenyl	9.752	2195346	16.593 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 82.97%#	
35) s 1-chlorooctadecane	11.212	818416	12.561 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 62.81%#	
Target Compounds			
1) h c11-c22 Aromatics (Un...	5.097	48961187	392.454 µg/mlm
2) naphthalene	5.043	1962151	15.630 µg/ml
3) 2-methylnaphthalene	5.940	2068518	16.398 µg/ml
5) acenaphthylene	7.048	2255793	17.829 µg/ml
7) acenaphthene	7.290	2615954	18.781 µg/ml
8) fluorene	7.932	2425214	18.878 µg/ml
9) phenanthrene	9.105	2513711	20.123 µg/ml
10) anthracene	9.163	2721806	20.459 µg/ml
12) fluoranthene	10.603	2832302	22.082 µg/ml
13) pyrene	10.858	2882107	21.944 µg/ml
14) benzo(a)anthracene	12.418	2867580	23.605 µg/ml
15) chrysene	12.463	2903916	22.749 µg/ml
16) benzo(B)fluoranthene	13.710	2778057	23.464 µg/ml
17) benzo(k)fluoranthene	13.737	2962776	23.141 µg/ml
18) benzo(a)pyrene	14.042	2833745	24.023 µg/ml
19) indeno(1,2,3-cd)pyrene	15.178	2828030	24.162 µg/mlm
20) dibenzo(ah)anthracene	15.223	2824783	24.930 µg/mlm
21) benzo(ghi)perylene	15.398	2824729	24.893 µg/ml
25) h c-9	2.647	869178	10.310 µg/mlm
26) h c-10	3.800	1135291	13.466 µg/ml
28) c-12	5.653	1312233	15.565 µg/ml
30) c-14	7.170	1402624	16.637 µg/ml
31) c-16	8.498	1456295	17.274 µg/ml
32) c-18	9.692	1547165	18.352 µg/ml
33) c-19	10.248	1563882	20.095 µg/ml
34) c-20	10.778	1574636	20.233 µg/ml
36) c-22	11.775	1555898	19.993 µg/ml
37) c-24	12.692	1528344	19.638 µg/ml
38) c-26	13.542	1485963	19.094 µg/ml
39) c-28	14.335	1456687	18.718 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:07:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
40) h c-30	15.082	1419081	18.234 µg/ml
41) h c-36	16.983	1061317	13.637 µg/mlm

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

9.3.2

9

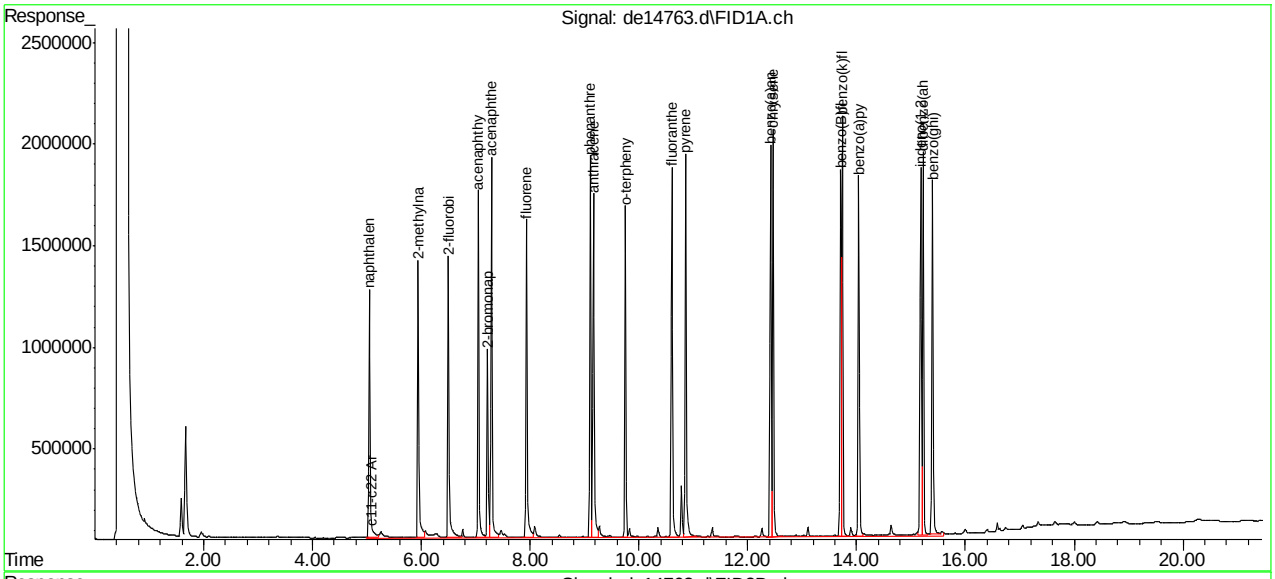
SGS ACCUTEST MC46423

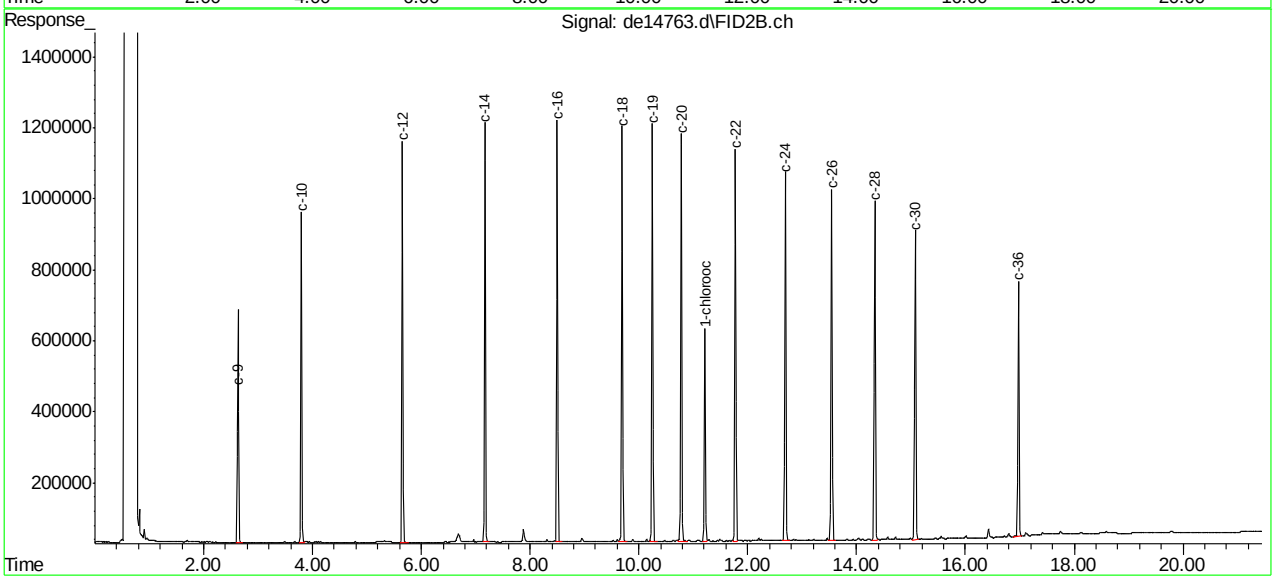
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

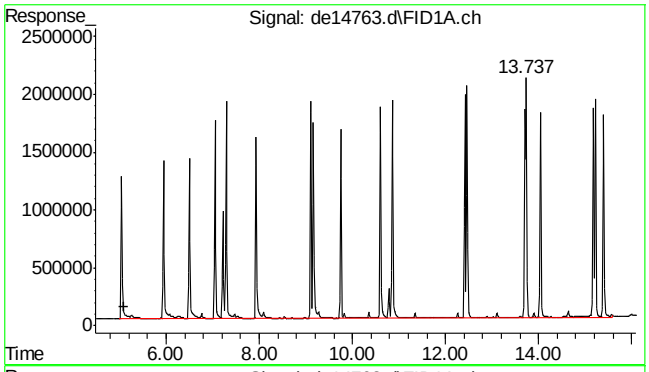
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:07:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



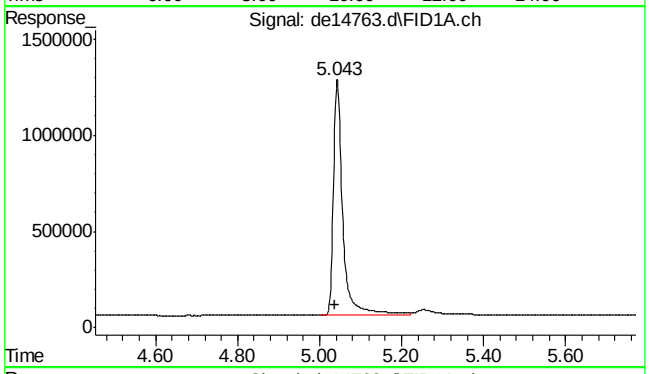


SGS ACCUTEST MC46423



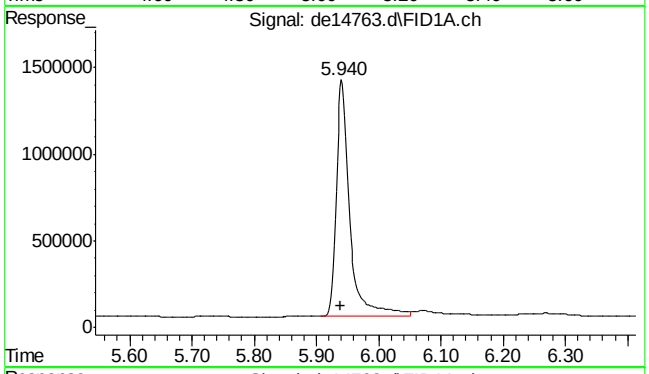
#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 48961187
Conc: 392.45 µg/ml m



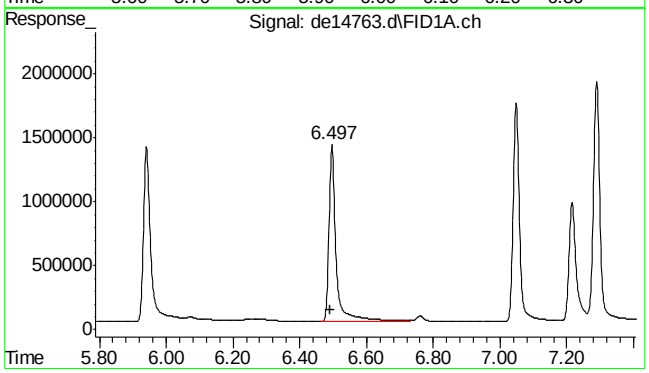
#2 naphthalene

R.T.: 5.043 min
Delta R.T.: 0.005 min
Response: 1962151
Conc: 15.63 µg/ml



#3 2-methylnaphthalene

R.T.: 5.940 min
Delta R.T.: 0.002 min
Response: 2068518
Conc: 16.40 µg/ml



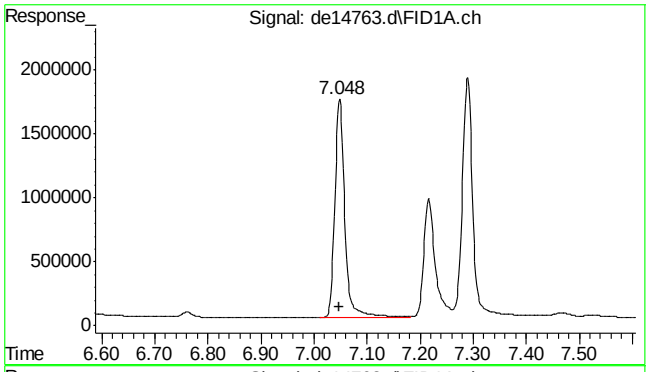
#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.003 min
Response: 2161215
Conc: 18.88 µg/ml

9.3.2

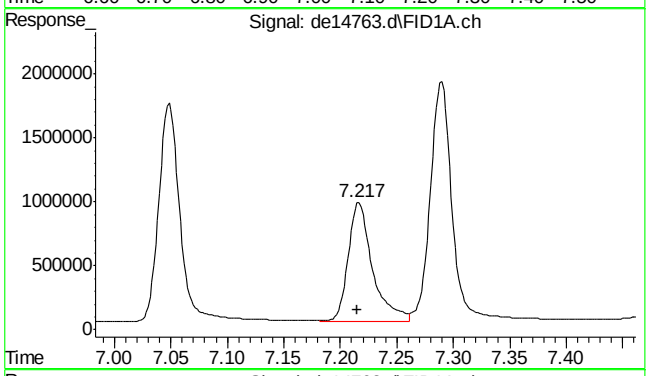
9

SGS ACCUTEST MC46423



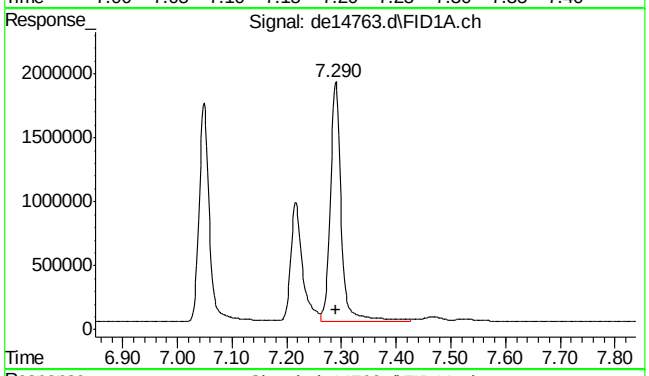
#5 acenaphthylene

R.T.: 7.048 min
Delta R.T.: 0.000 min
Response: 2255793
Conc: 17.83 µg/ml



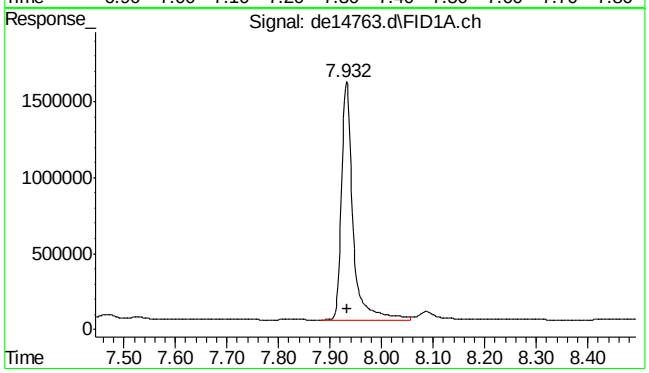
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 1393450
Conc: 19.43 µg/ml



#7 acenaphthene

R.T.: 7.290 min
Delta R.T.: 0.000 min
Response: 2615954
Conc: 18.78 µg/ml



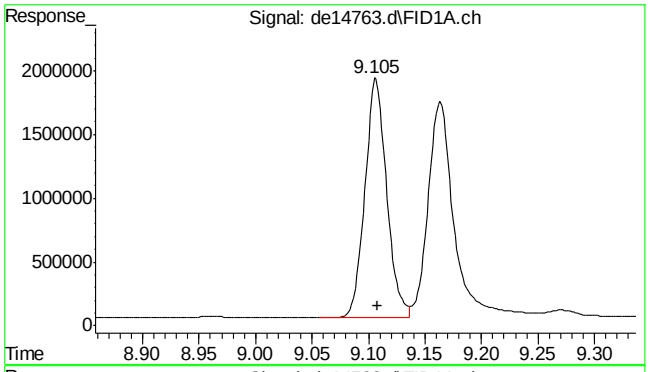
#8 fluorene

R.T.: 7.932 min
Delta R.T.: -0.002 min
Response: 2425214
Conc: 18.88 µg/ml

9.3.2

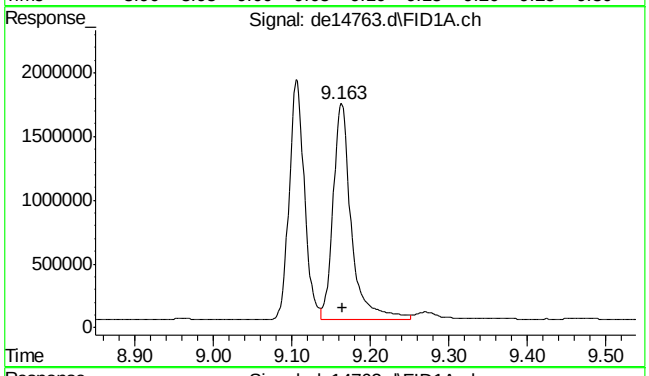
9

SGS ACCUTEST MC46423



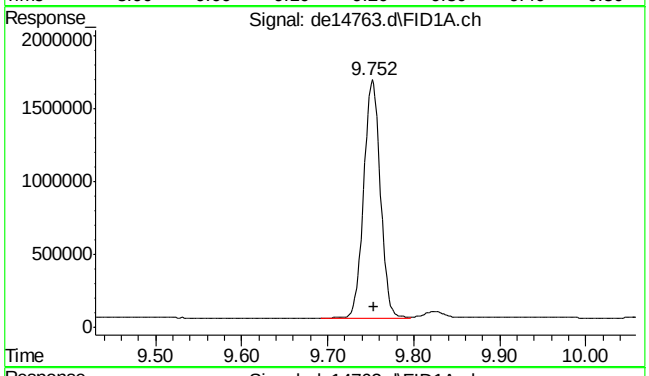
#9 phenanthrene

R.T.: 9.105 min
Delta R.T.: -0.003 min
Response: 2513711
Conc: 20.12 µg/ml



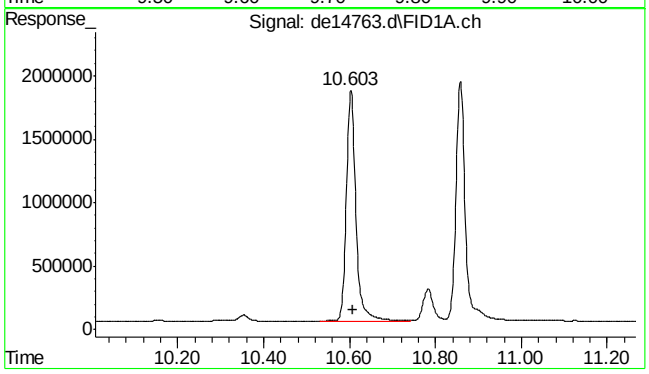
#10 anthracene

R.T.: 9.163 min
Delta R.T.: -0.002 min
Response: 2721806
Conc: 20.46 µg/ml



#11 o-terphenyl

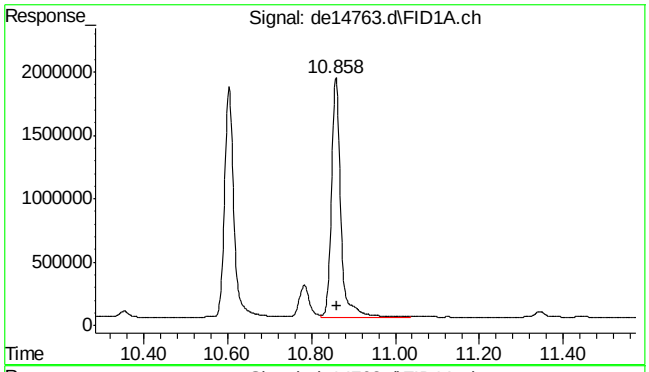
R.T.: 9.752 min
Delta R.T.: -0.002 min
Response: 2195346
Conc: 16.59 µg/ml



#12 fluoranthene

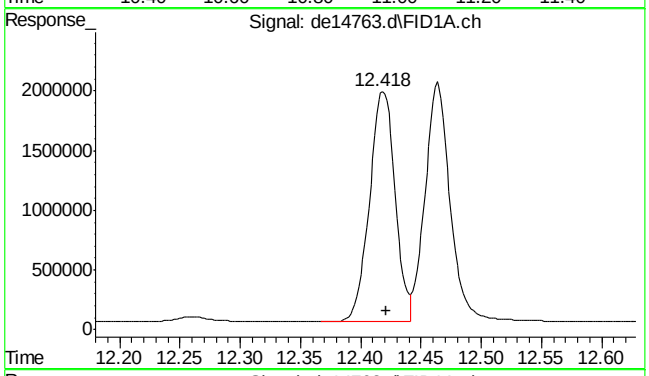
R.T.: 10.603 min
Delta R.T.: -0.003 min
Response: 2832302
Conc: 22.08 µg/ml

SGS ACCUTEST MC46423



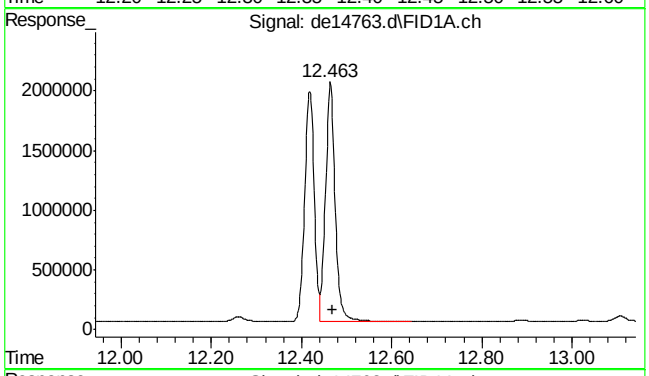
#13 pyrene

R.T.: 10.858 min
Delta R.T.: -0.003 min
Response: 2882107
Conc: 21.94 µg/ml



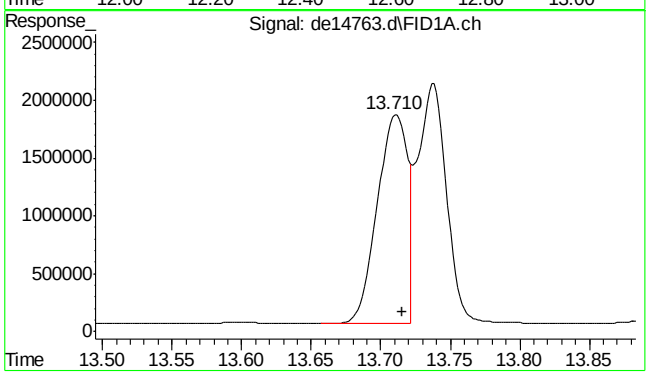
#14 benzo(a)anthracene

R.T.: 12.418 min
Delta R.T.: -0.003 min
Response: 2867580
Conc: 23.60 µg/ml



#15 chrysene

R.T.: 12.463 min
Delta R.T.: -0.005 min
Response: 2903916
Conc: 22.75 µg/ml



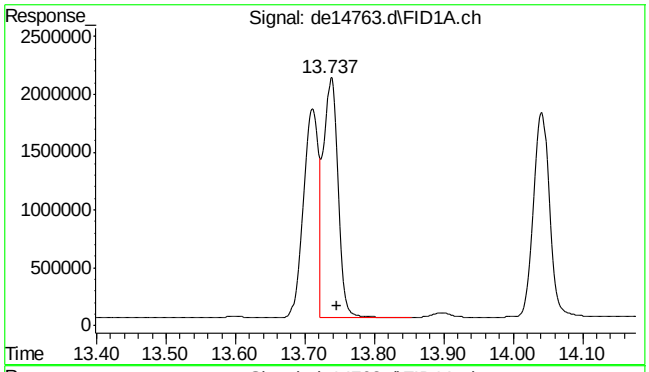
#16 benzo(B)fluoranthene

R.T.: 13.710 min
Delta R.T.: -0.005 min
Response: 2778057
Conc: 23.46 µg/ml

9.3.2

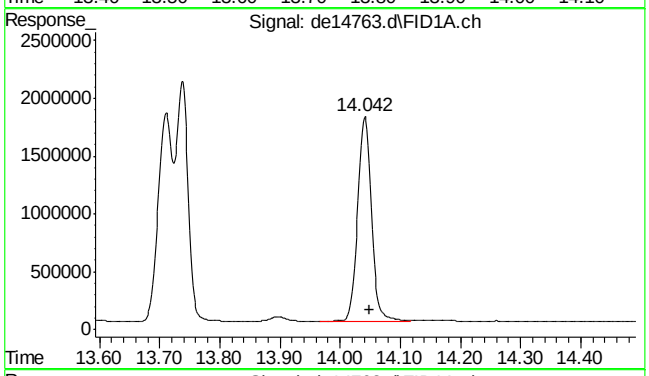
9

SGS ACCUTEST MC46423



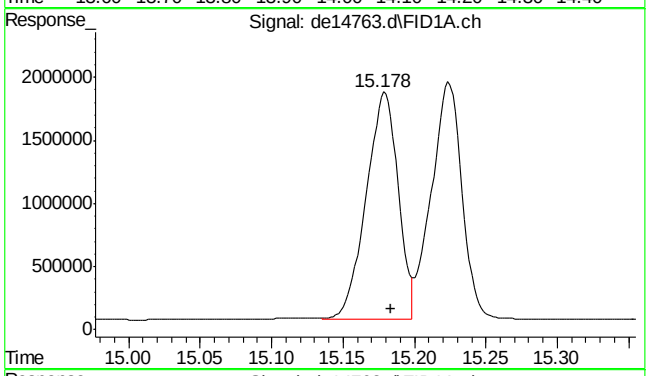
#17 benzo(k)fluoranthene

R.T.: 13.737 min
Delta R.T.: -0.010 min
Response: 2962776
Conc: 23.14 µg/ml



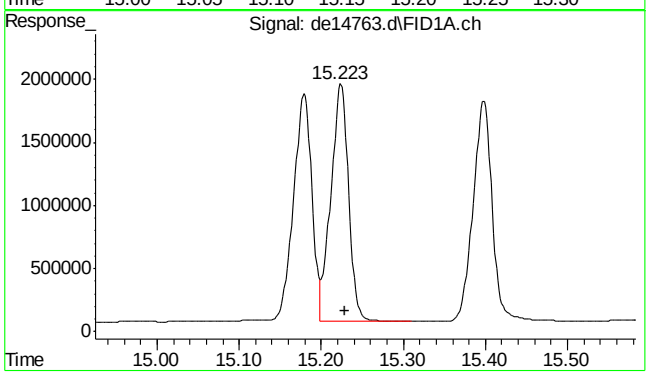
#18 benzo(a)pyrene

R.T.: 14.042 min
Delta R.T.: -0.007 min
Response: 2833745
Conc: 24.02 µg/ml



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

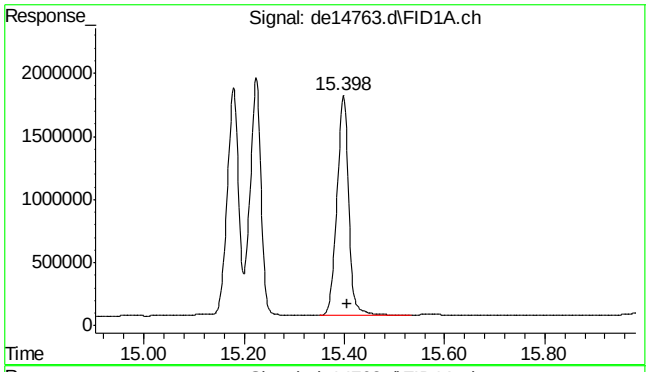
R.T.: 15.178 min
Delta R.T.: -0.005 min
Response: 2828030
Conc: 24.16 µg/ml m



#20 dibenzo(ah)anthracene

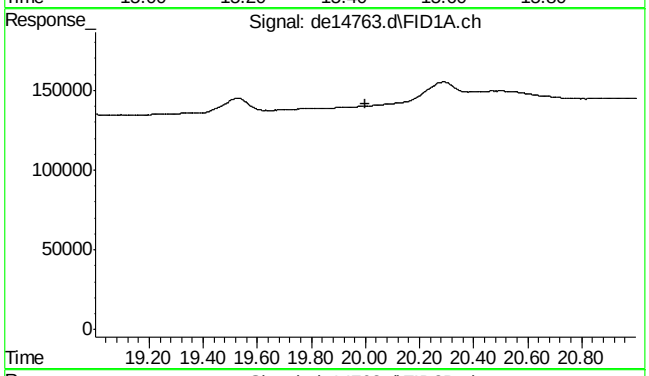
R.T.: 15.223 min
Delta R.T.: -0.005 min
Response: 2824783
Conc: 24.93 µg/ml m

SGS ACCUTEST MC46423



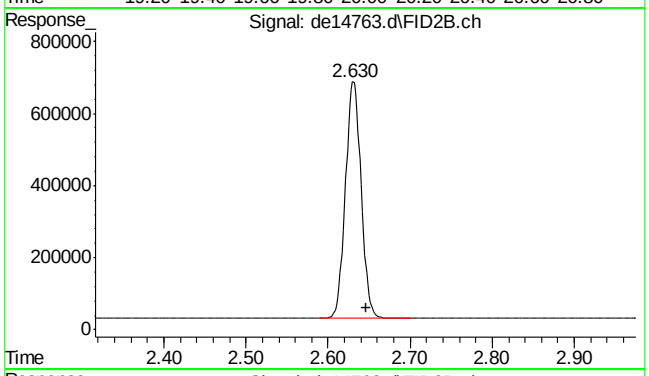
#21 benzo(ghi)perylene

R.T.: 15.398 min
Delta R.T.: -0.007 min
Response: 2824729
Conc: 24.89 µg/ml



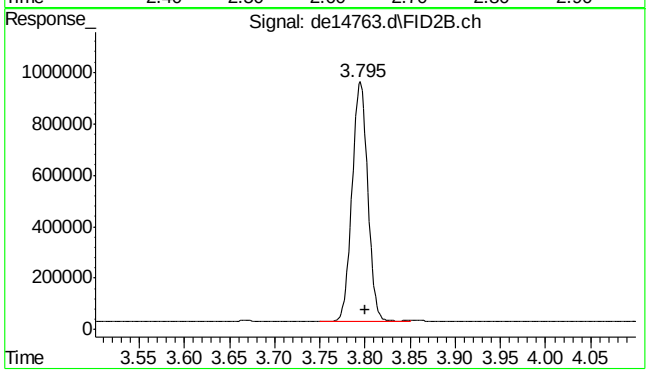
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



#25 c-9

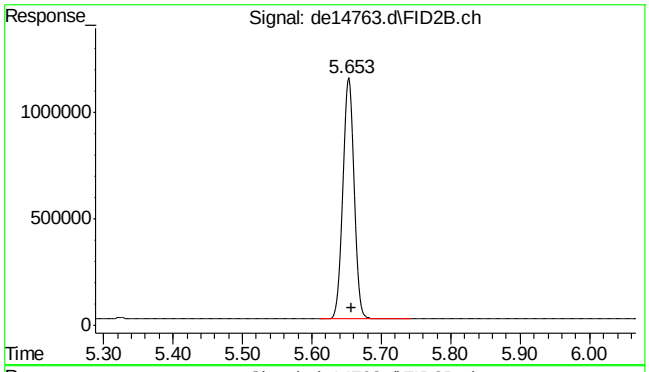
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 869178
Conc: 10.31 µg/ml m



#26 c-10

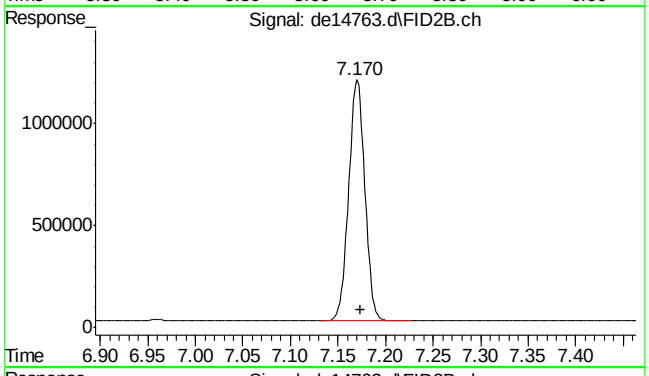
R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 1135291
Conc: 13.47 µg/ml

SGS ACCUTEST MC46423



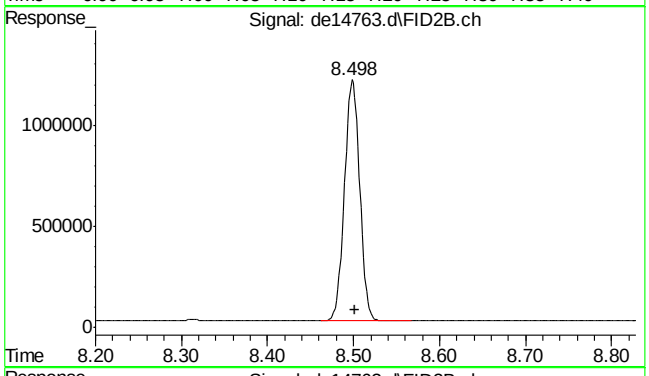
#28 c-12

R.T.: 5.653 min
Delta R.T.: -0.003 min
Response: 1312233
Conc: 15.57 µg/ml



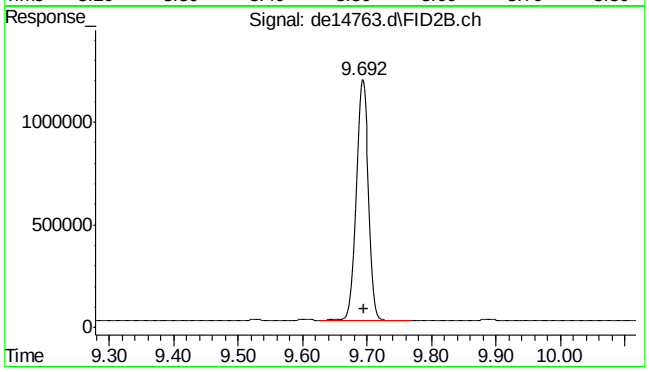
#30 c-14

R.T.: 7.170 min
Delta R.T.: -0.003 min
Response: 1402624
Conc: 16.64 µg/ml



#31 c-16

R.T.: 8.498 min
Delta R.T.: -0.003 min
Response: 1456295
Conc: 17.27 µg/ml



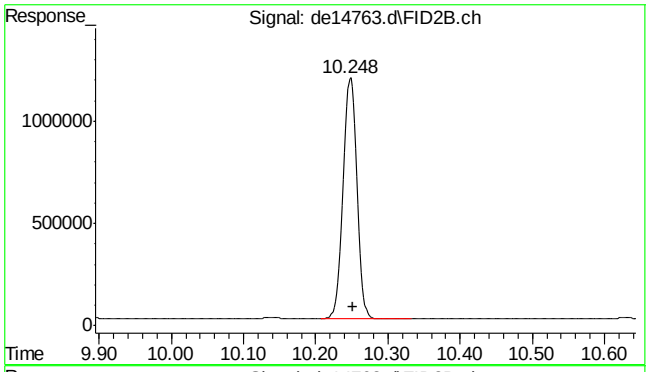
#32 c-18

R.T.: 9.692 min
Delta R.T.: -0.003 min
Response: 1547165
Conc: 18.35 µg/ml

9.3.2

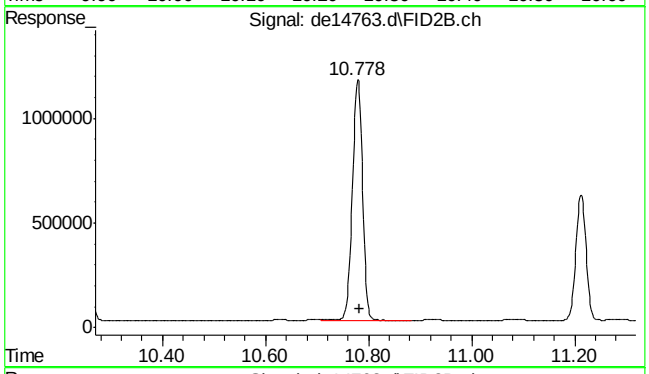
9

SGS ACCUTEST MC46423



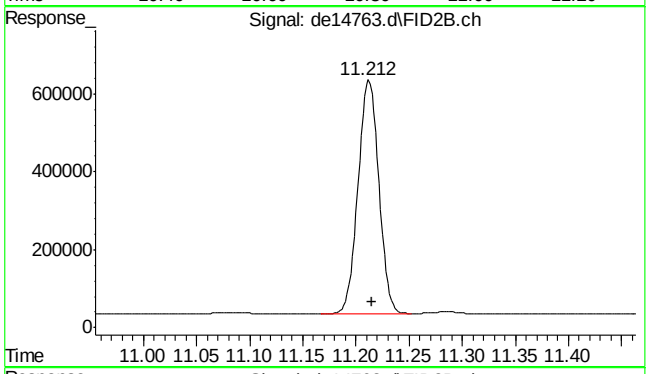
#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.003 min
Response: 1563882
Conc: 20.10 µg/ml



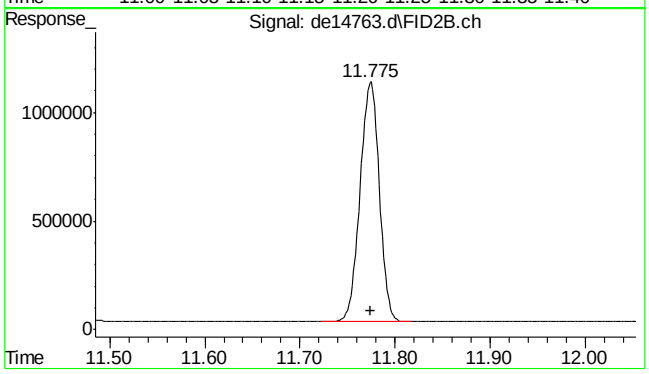
#34 c-20

R.T.: 10.778 min
Delta R.T.: -0.003 min
Response: 1574636
Conc: 20.23 µg/ml



#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.003 min
Response: 818416
Conc: 12.56 µg/ml



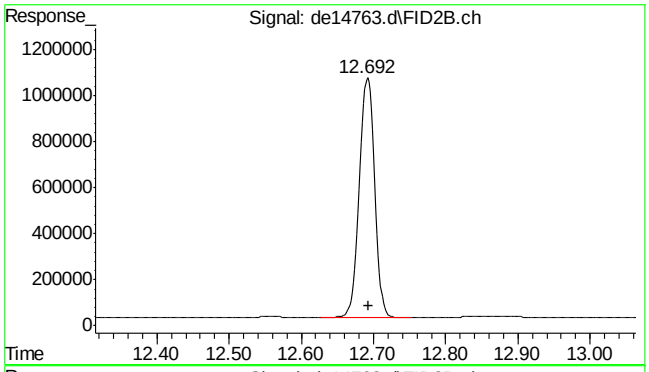
#36 c-22

R.T.: 11.775 min
Delta R.T.: 0.000 min
Response: 1555898
Conc: 19.99 µg/ml

9.3.2

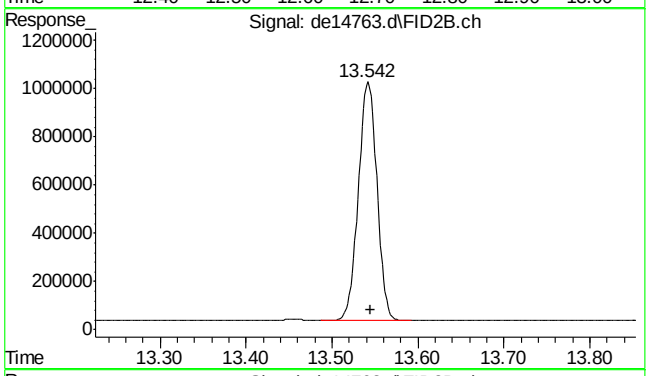
9

SGS ACCUTEST MC46423



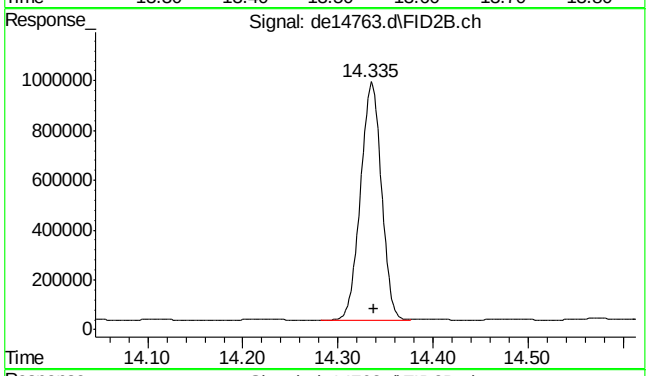
#37 c-24

R.T.: 12.692 min
Delta R.T.: -0.002 min
Response: 1528344
Conc: 19.64 µg/ml



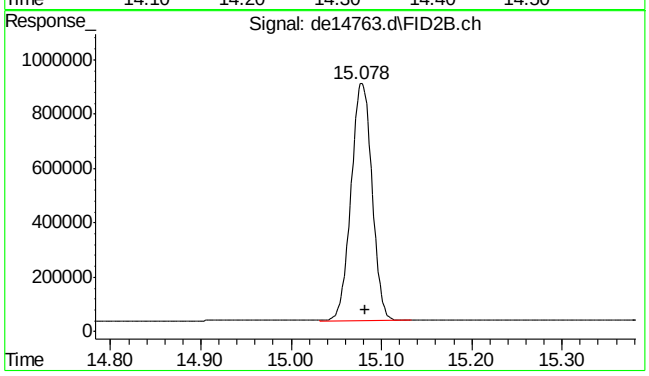
#38 c-26

R.T.: 13.542 min
Delta R.T.: -0.003 min
Response: 1485963
Conc: 19.09 µg/ml



#39 c-28

R.T.: 14.335 min
Delta R.T.: -0.003 min
Response: 1456687
Conc: 18.72 µg/ml



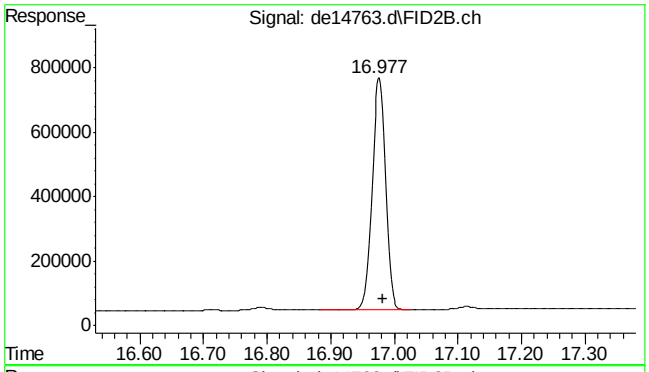
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1419081
Conc: 18.23 µg/ml

9.3.2

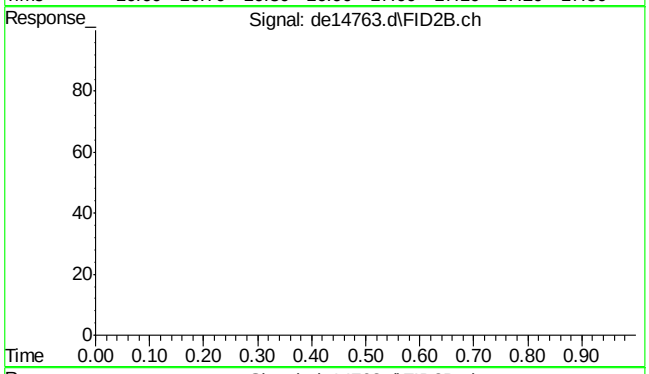
9

SGS ACCUTEST MC46423



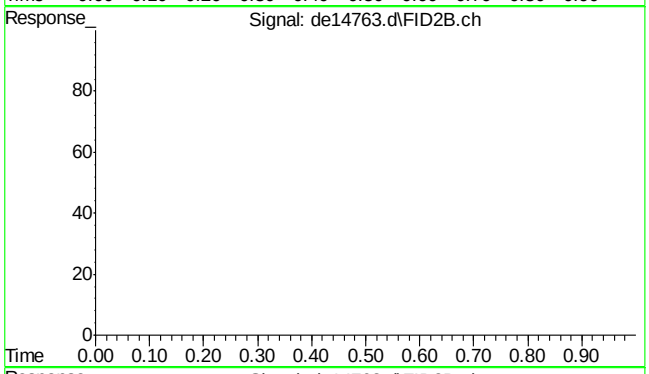
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1061317
Conc: 13.64 µg/ml m



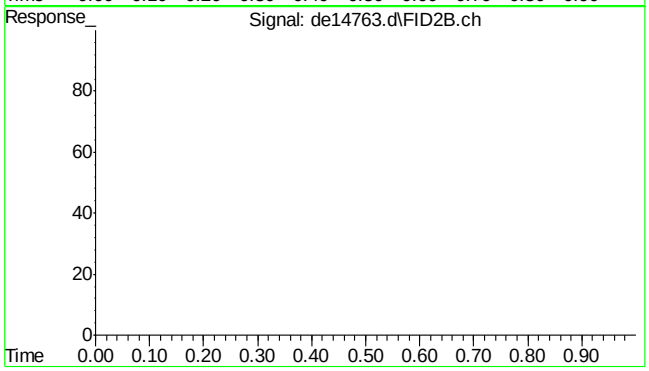
#42 bht

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



#43 bht

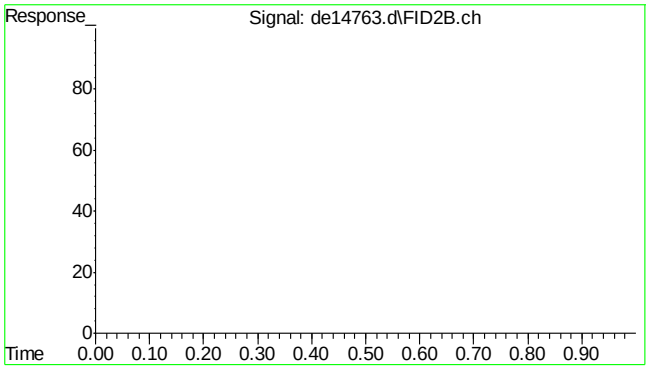
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#44 bht

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

SGS ACCUTEST MC46423



#45 bht

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

9.3.2

9

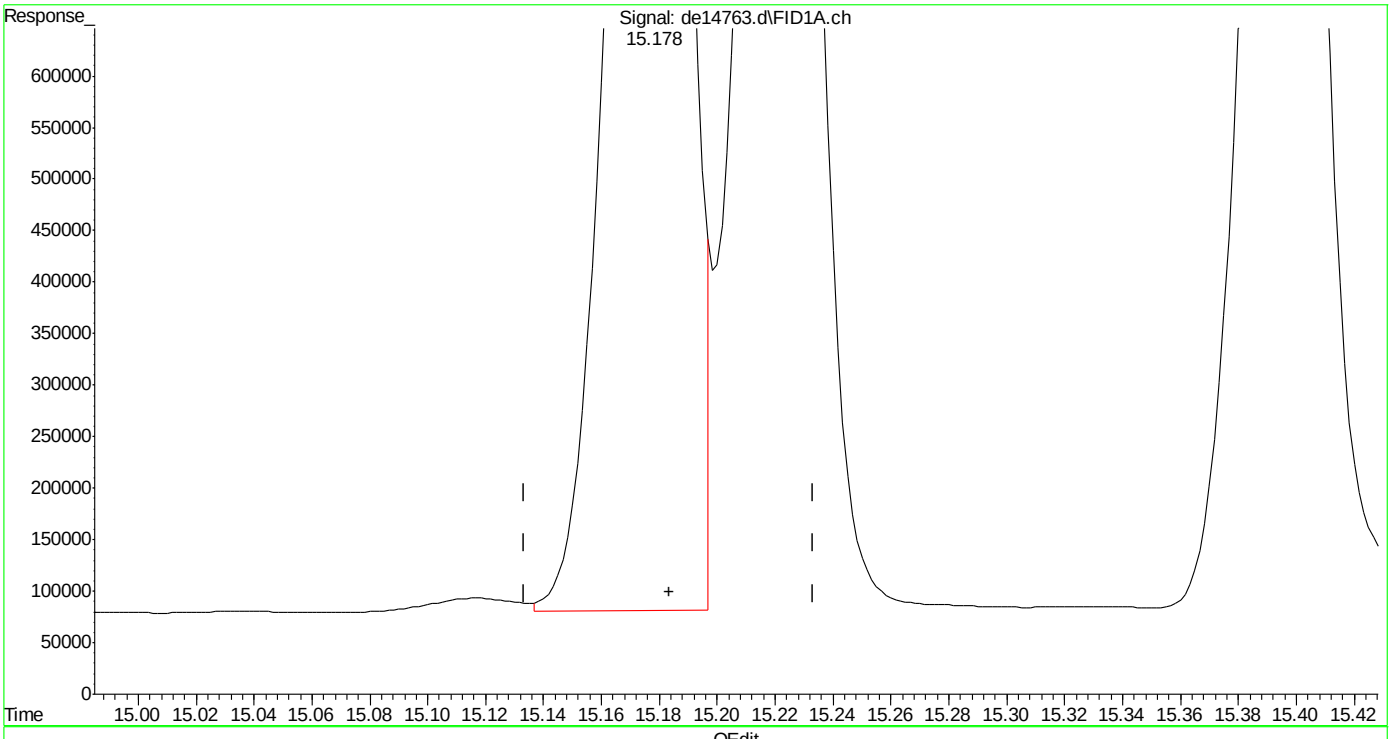
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.178min 23.798 µg/ml
response 2785469

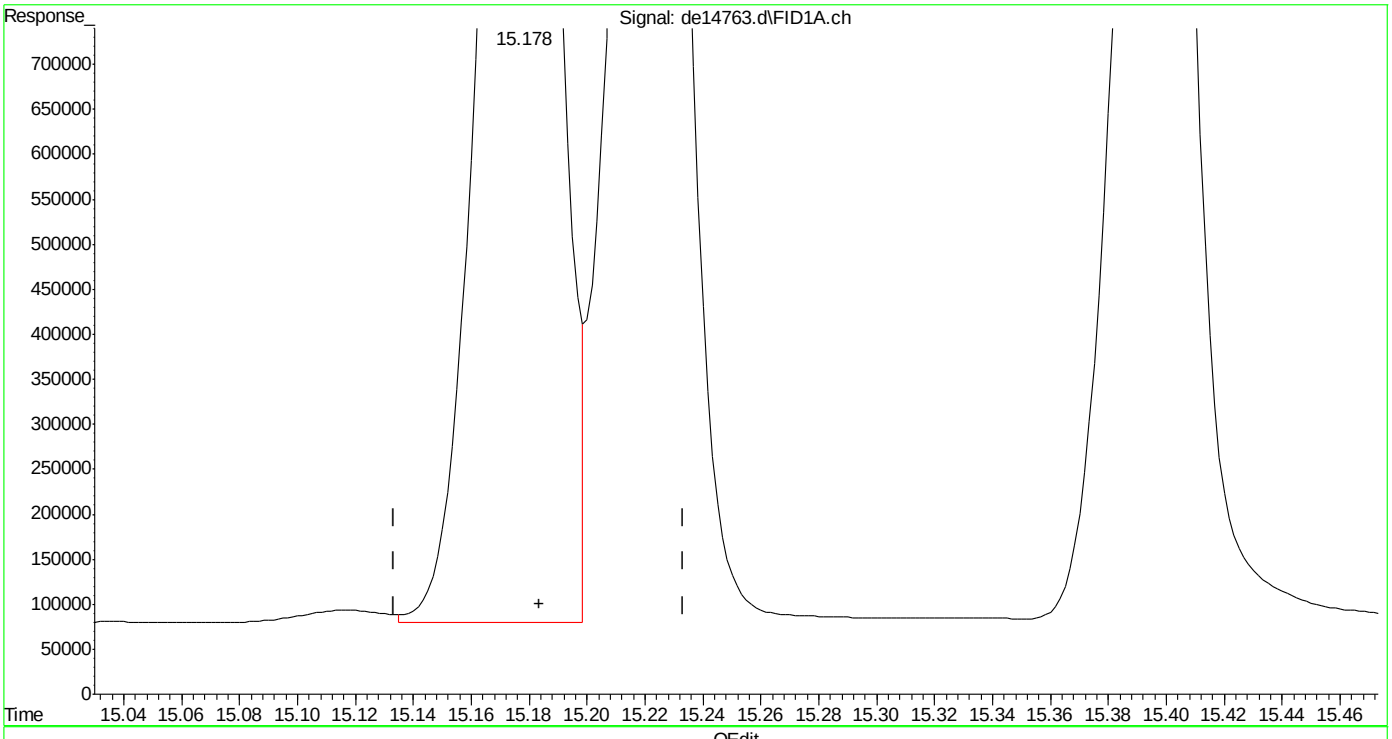
(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 14:05:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.178min 24.162 µg/ml m
response 2828030

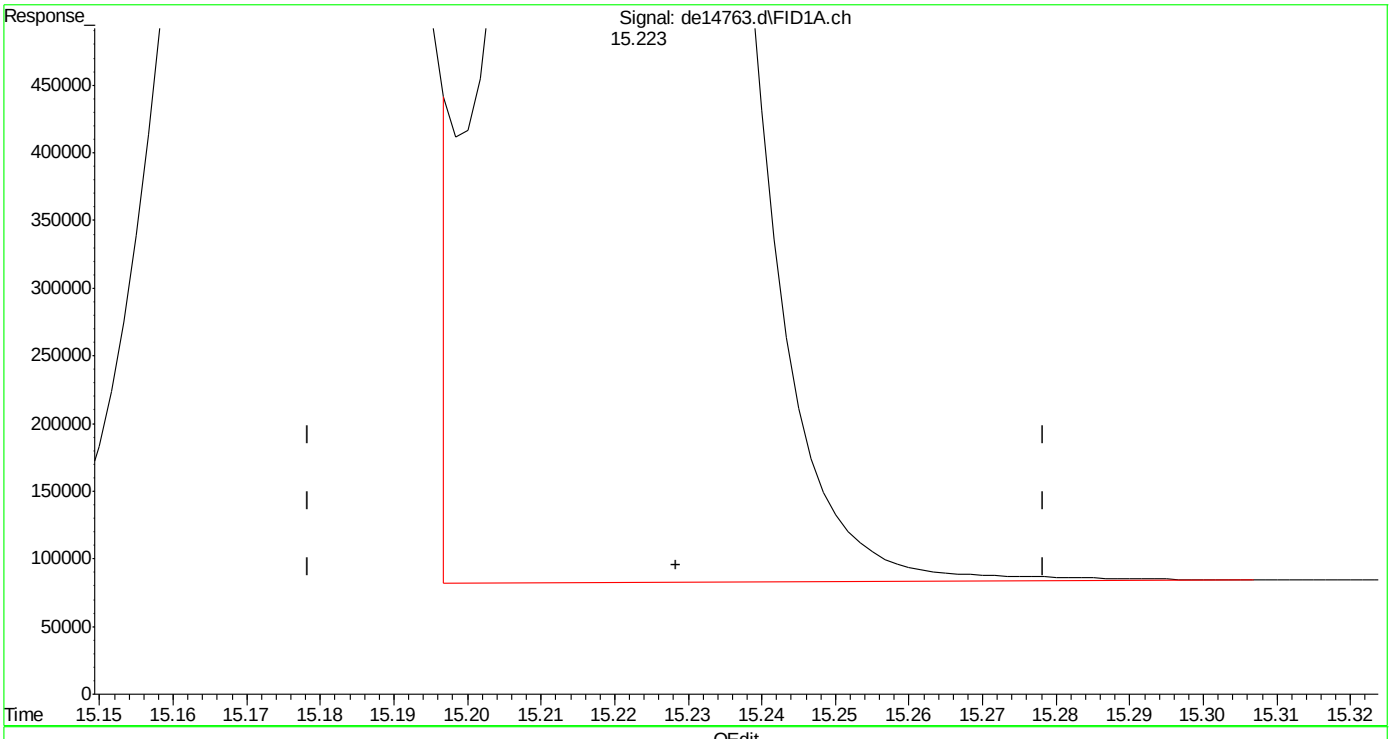
(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 14:06:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.223min 25.017 µg/ml
response 2834629

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 14:06:16 2016

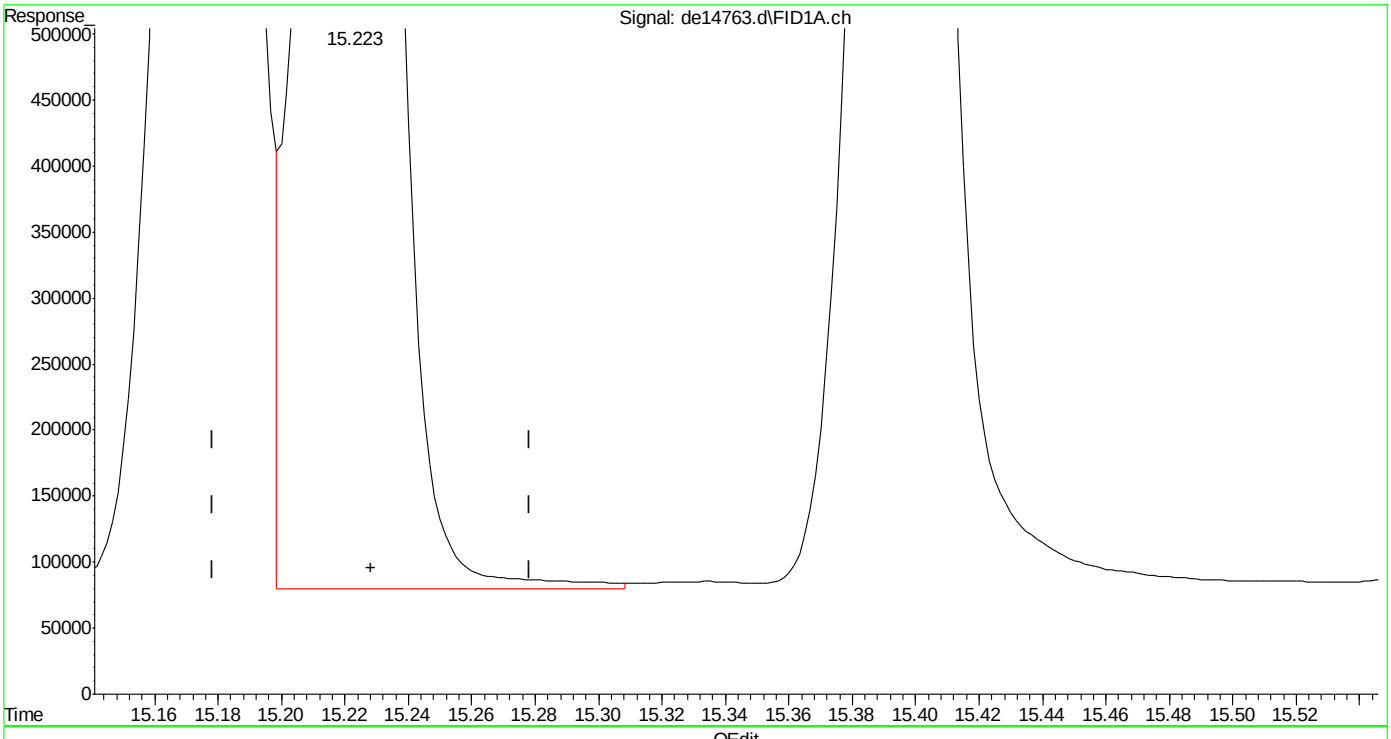
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14763.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 1:40 pm
Operator : thomasa
Sample : op47988-bsd
Misc : op47988,gde820,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 14:05:36 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
15.223min 24.930 µg/ml m
response 2824783

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 14:06:28 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : ic815-1 (Sig #1); cc815-1 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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	6.490	107132	1.121 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	5.61%#
6) s 2-bromonaphthalene	7.210	59024	0.910 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	4.55%#
11) s o-terphenyl	9.745	133778	1.257 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	6.28%#
35) s 1-chlorooctadecane	11.213	64123	1.100 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery =	5.50%#
Target Compounds			
2) naphthalene	5.037	113943	1.067 µg/ml
3) 2-methylnaphthalene	5.935	110362	1.043 µg/ml
5) acenaphthylene	7.040	122875	1.179 µg/ml
7) acenaphthene	7.282	149113	1.386 µg/ml
8) fluorene	7.925	119469	1.133 µg/ml
9) phenanthrene	9.100	114628	1.084 µg/ml
10) anthracene	9.157	144305	1.434 µg/ml
12) fluoranthene	10.597	127841	1.228 µg/ml
13) pyrene	10.850	131934	1.245 µg/ml
14) benzo(a)anthracene	12.413	117526	1.167 µg/ml
15) chrysene	12.458	140012	1.383 µg/ml
16) benzo(B)fluoranthene	13.703	102498	0.998 µg/mlm
17) benzo(k)fluoranthene	13.727f	143585	1.459 µg/ml
18) benzo(a)pyrene	14.037	121812	1.269 µg/ml
19) indeno(1,2,3-cd)pyrene	15.170	111401	1.138 µg/mlm
20) dibenzo(ah)anthracene	15.217	118078	1.248 µg/ml
21) benzo(ghi)perylene	15.385f	114951	1.208 µg/ml
25) h c-9	2.647	80145	1.007 µg/mlm
26) h c-10	3.800	81660	1.021 µg/mlm
27) naphthalene #2	5.477	87389	1.064 µg/ml
28) c-12	5.655	80147	1.008 µg/ml
29) 2-methylnaphthalene #2	6.370	85044	1.028 µg/ml
30) c-14	7.172	80327	1.015 µg/ml
31) c-16	8.500	83899	1.066 µg/ml
32) c-18	9.695	80411	1.027 µg/ml
33) c-19	10.248	84447	1.129 µg/ml
34) c-20	10.780	77747	1.053 µg/ml
36) c-22	11.775	79966	1.088 µg/ml
37) c-24	12.693	75293	1.064 µg/ml
38) c-26	13.543	77835	1.062 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : ic815-1 (Sig #1); cc815-1 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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	14.337	72455	1.007 µg/ml
40) h	c-30	15.082	93535	1.301 µg/mlm
41) h	c-36	16.983	59371	0.865 µg/mlm

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

9.4.1

9

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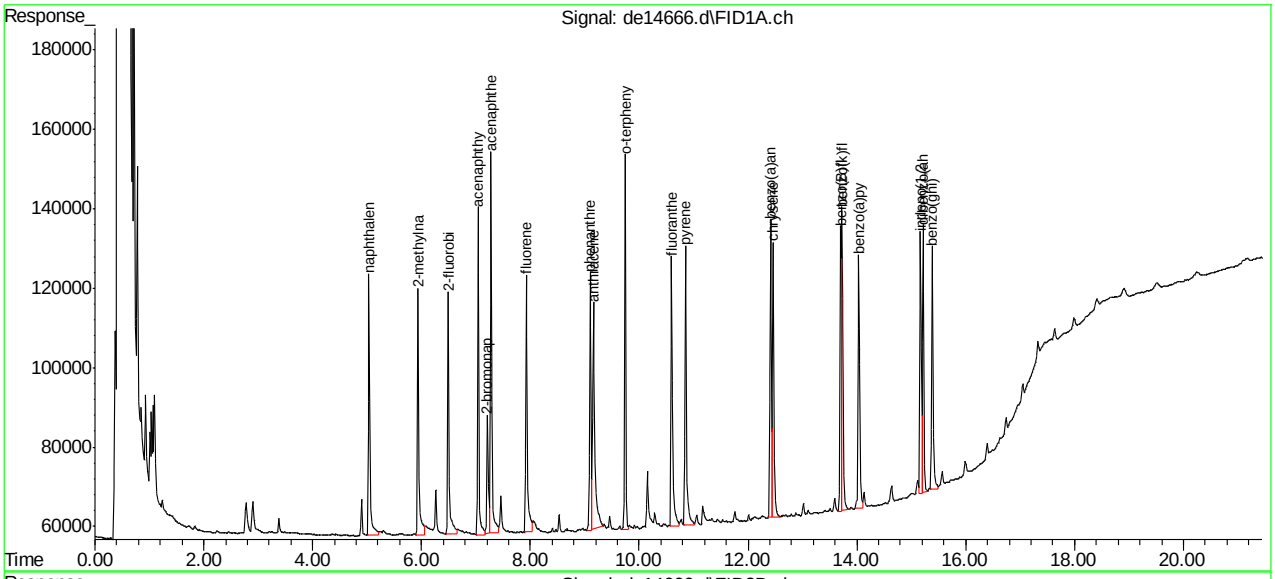
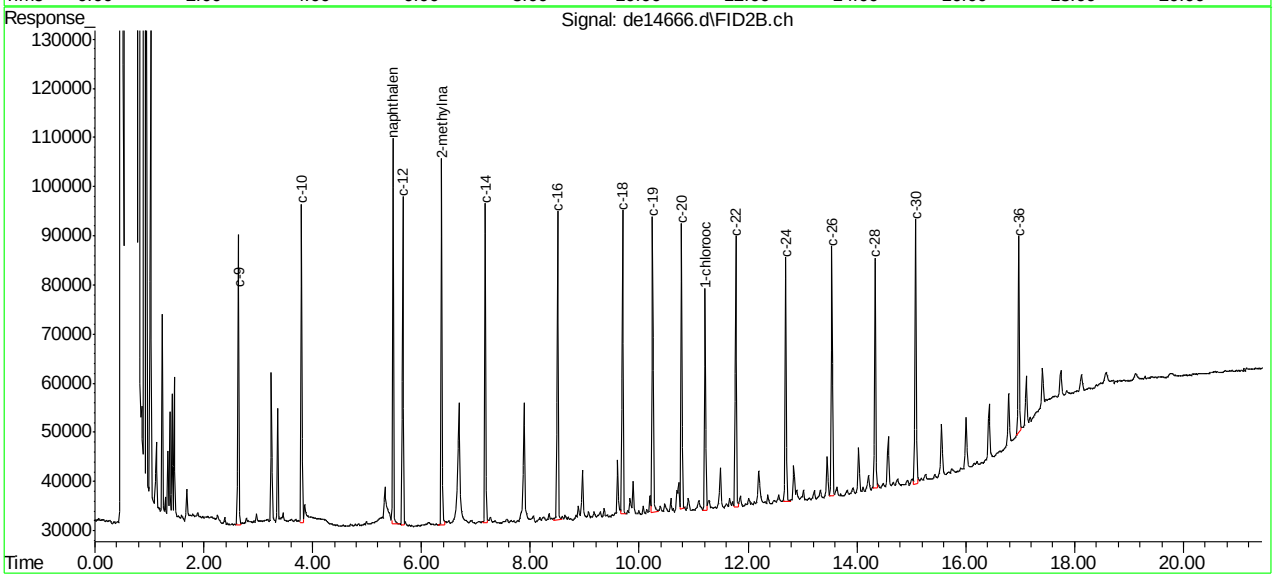
Quantitation Report (QT Reviewed)

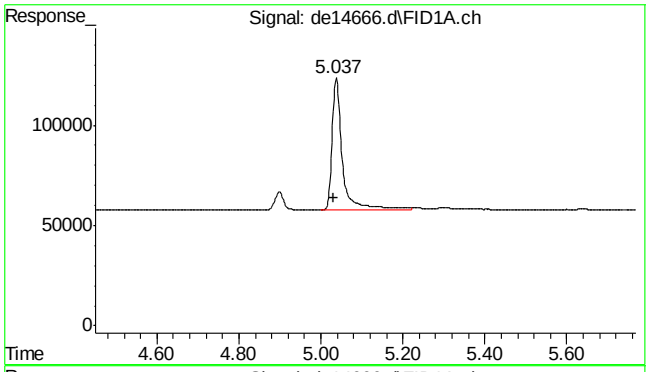
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : ic815-1 (Sig #1); cc815-1 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:07 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 2016
Response via : Initial Calibration
Integrator: RTE

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

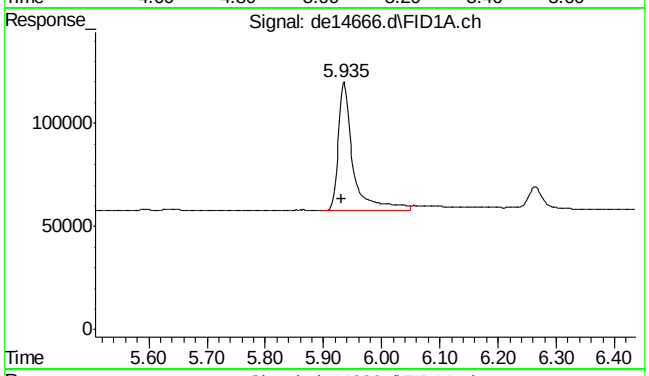






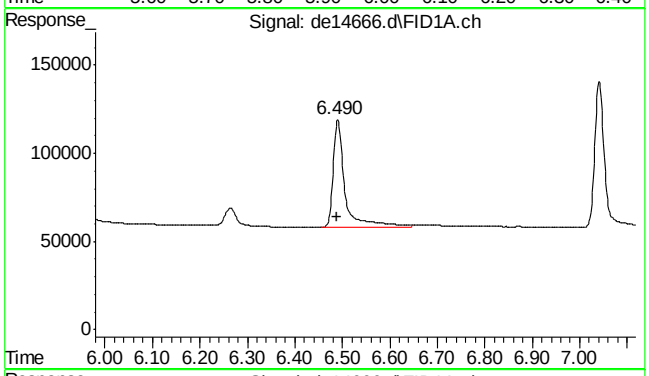
#2 naphthalene

R.T.: 5.037 min
Delta R.T.: 0.007 min
Response: 113943
Conc: 1.07 µg/ml



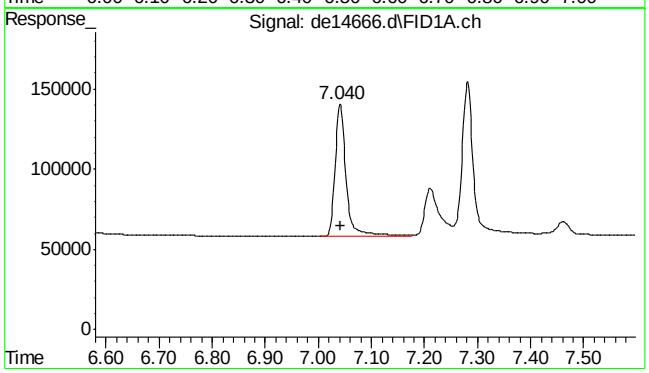
#3 2-methylnaphthalene

R.T.: 5.935 min
Delta R.T.: 0.003 min
Response: 110362
Conc: 1.04 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.490 min
Delta R.T.: 0.002 min
Response: 107132
Conc: 1.12 µg/ml



#5 acenaphthylene

R.T.: 7.040 min
Delta R.T.: -0.002 min
Response: 122875
Conc: 1.18 µg/ml

9.4.1

9

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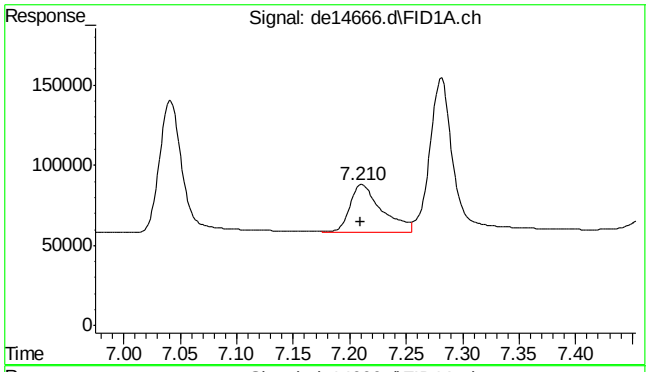
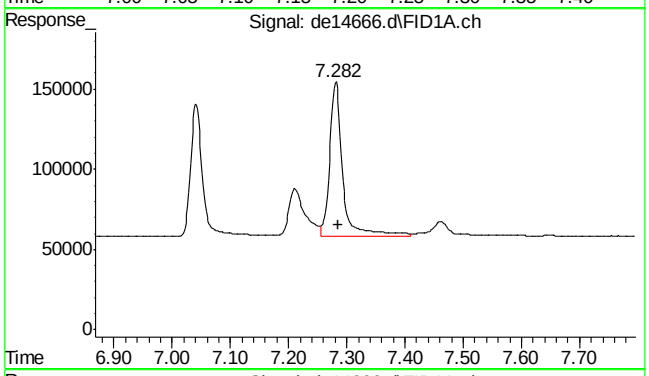


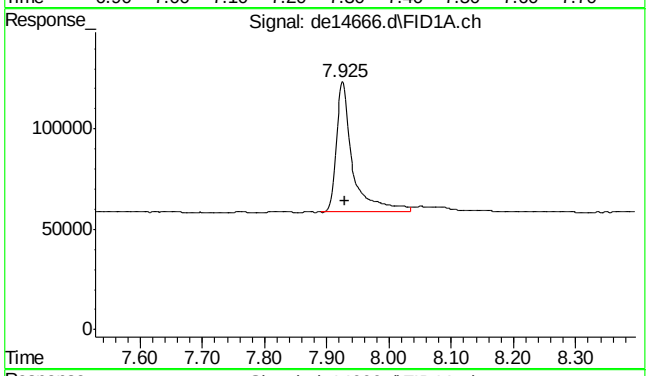
#6 2-bromonaphthalene

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 59024
Conc: 0.91 µg/ml



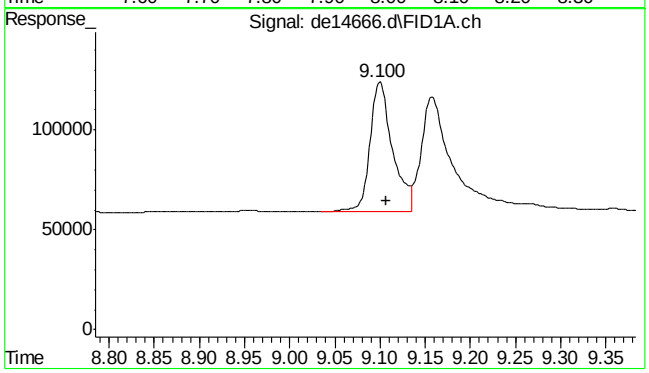
#7 acenaphthene

R.T.: 7.282 min
Delta R.T.: -0.003 min
Response: 149113
Conc: 1.39 µg/ml



#8 fluorene

R.T.: 7.925 min
Delta R.T.: -0.003 min
Response: 119469
Conc: 1.13 µg/ml



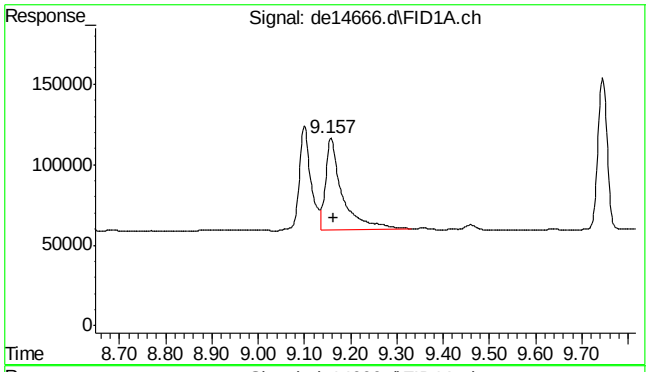
#9 phenanthrene

R.T.: 9.100 min
Delta R.T.: -0.007 min
Response: 114628
Conc: 1.08 µg/ml

9.4.1

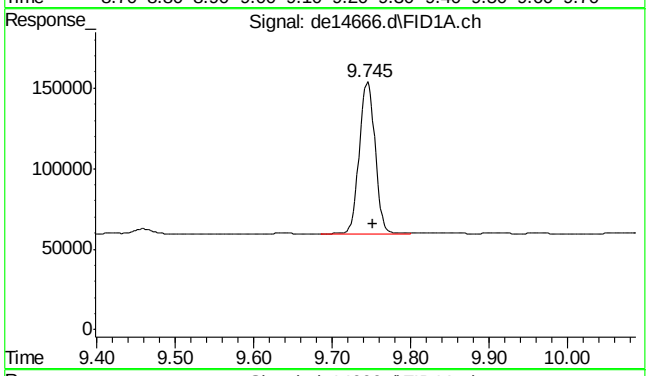
9

SGS ACCUTEST MC46423



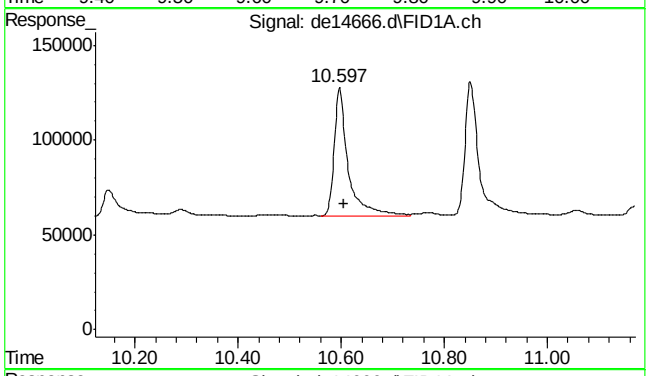
#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 144305
Conc: 1.43 µg/ml



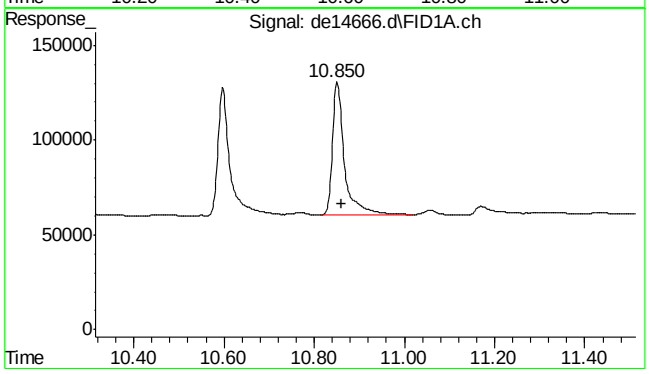
#11 o-terphenyl

R.T.: 9.745 min
Delta R.T.: -0.007 min
Response: 133778
Conc: 1.26 µg/ml



#12 fluoranthene

R.T.: 10.597 min
Delta R.T.: -0.008 min
Response: 127841
Conc: 1.23 µg/ml



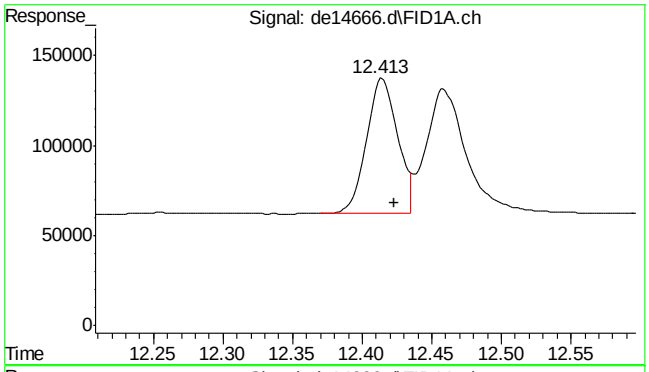
#13 pyrene

R.T.: 10.850 min
Delta R.T.: -0.012 min
Response: 131934
Conc: 1.25 µg/ml

9.4.1

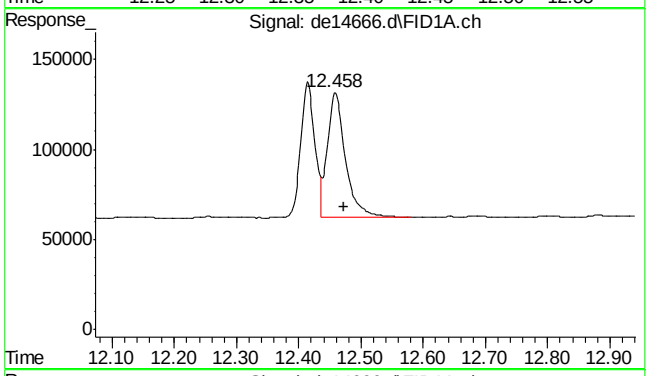
9

SGS ACCUTEST MC46423



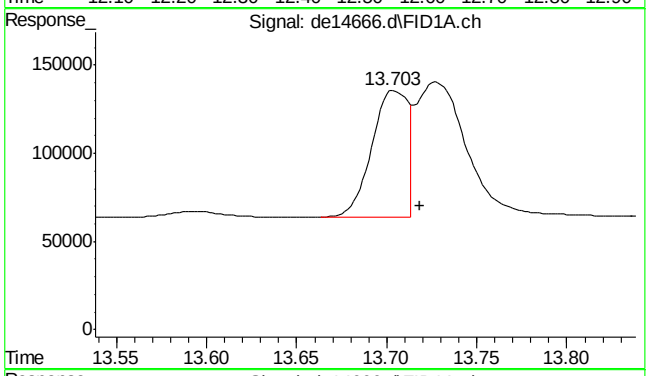
#14 benzo(a)anthracene

R.T.: 12.413 min
Delta R.T.: -0.010 min
Response: 117526
Conc: 1.17 µg/ml



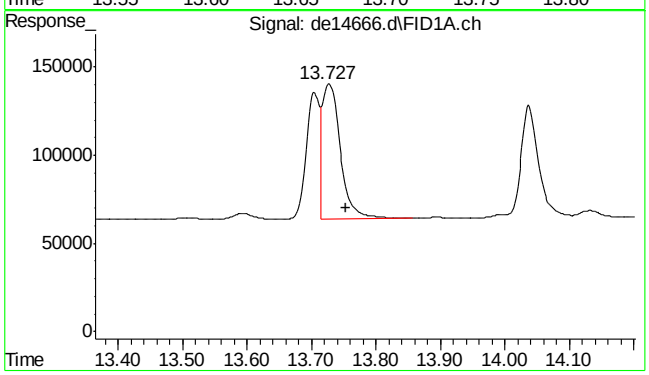
#15 chrysene

R.T.: 12.458 min
Delta R.T.: -0.013 min
Response: 140012
Conc: 1.38 µg/ml



#16 benzo(B)fluoranthene

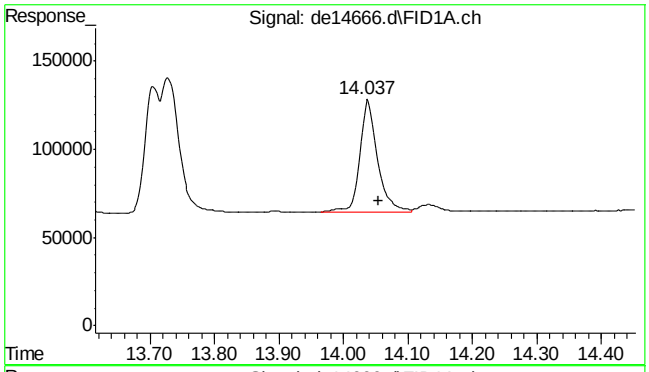
R.T.: 13.703 min
Delta R.T.: -0.015 min
Response: 102498
Conc: 1.00 µg/ml m



#17 benzo(k)fluoranthene

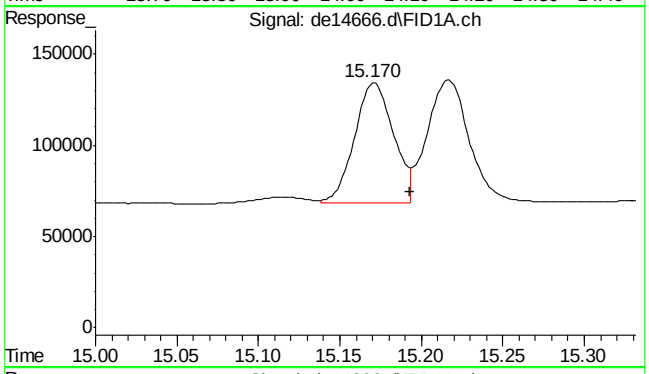
R.T.: 13.727 min
Delta R.T.: -0.027 min
Response: 143585
Conc: 1.46 µg/ml

SGS ACCUTEST MC46423



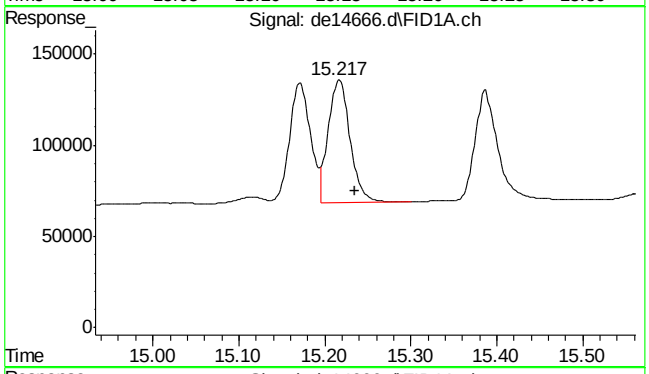
#18 benzo(a)pyrene

R.T.: 14.037 min
Delta R.T.: -0.017 min
Response: 121812
Conc: 1.27 µg/ml



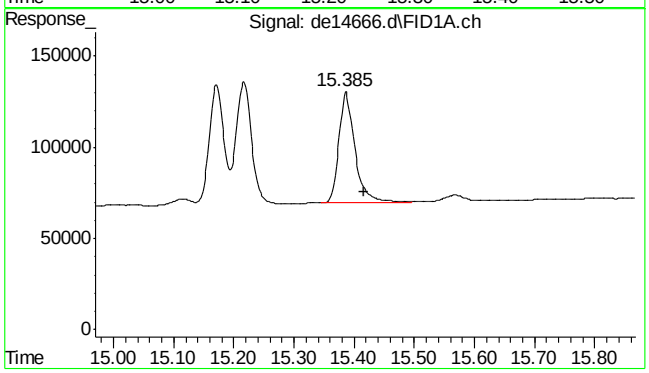
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.170 min
Delta R.T.: -0.023 min
Response: 111401
Conc: 1.14 µg/ml m



#20 dibenzo(ah)anthracene

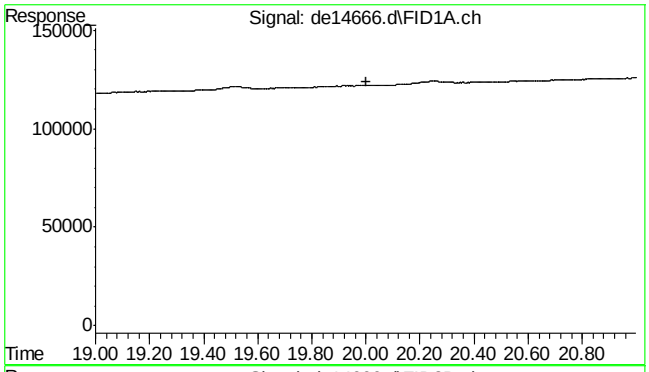
R.T.: 15.217 min
Delta R.T.: -0.018 min
Response: 118078
Conc: 1.25 µg/ml



#21 benzo(ghi)perylene

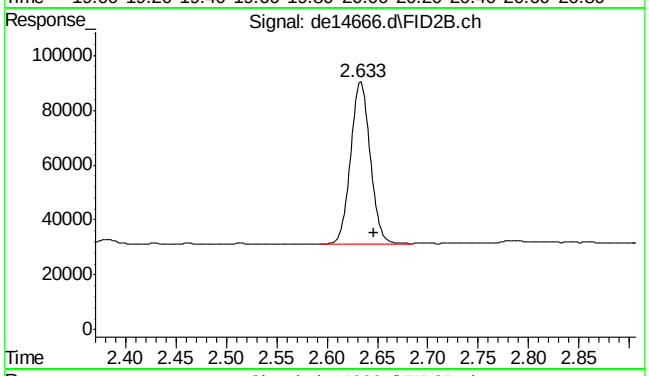
R.T.: 15.385 min
Delta R.T.: -0.032 min
Response: 114951
Conc: 1.21 µg/ml

SGS ACCUTEST MC46423



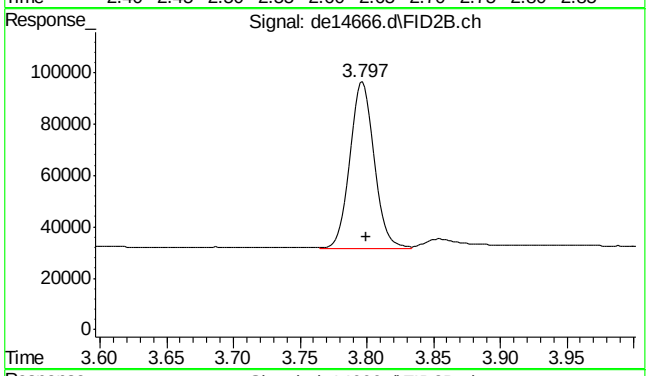
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



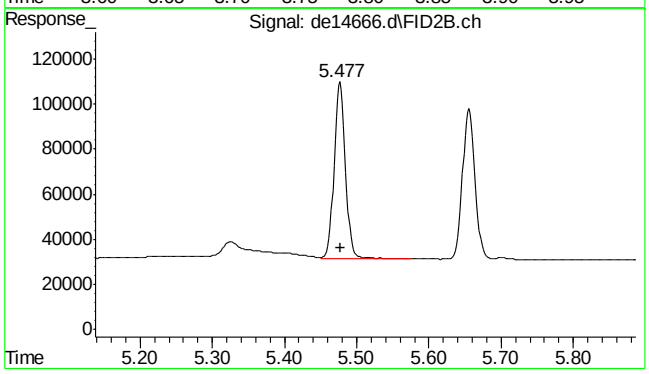
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 80145
Conc: 1.01 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 81660
Conc: 1.02 µg/ml m



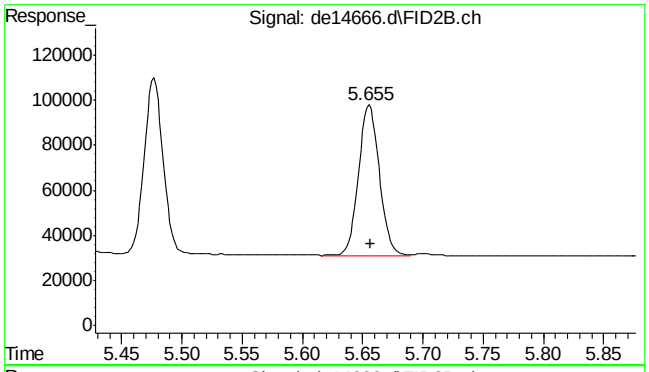
#27 naphthalene #2

R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 87389
Conc: 1.06 µg/ml

9.4.1

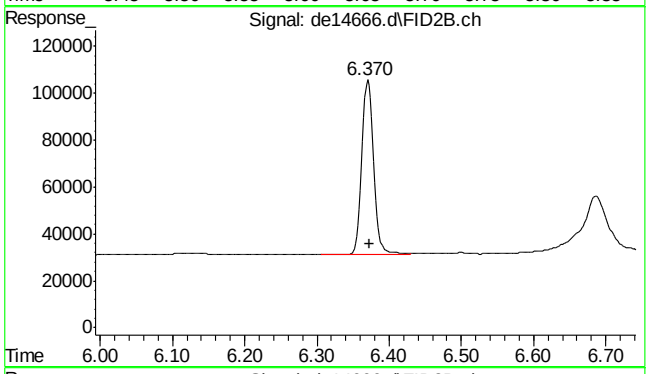
9

SGS ACCUTEST MC46423



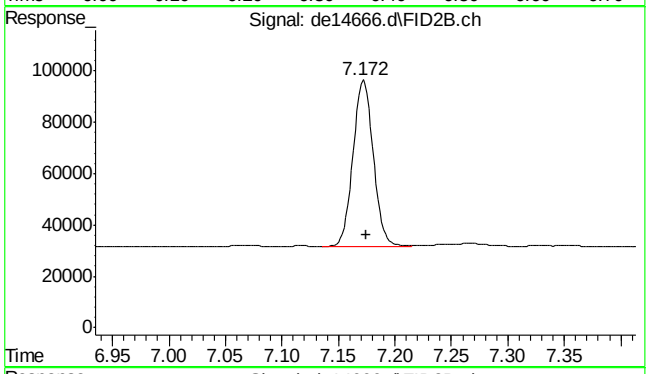
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 80147
Conc: 1.01 µg/ml



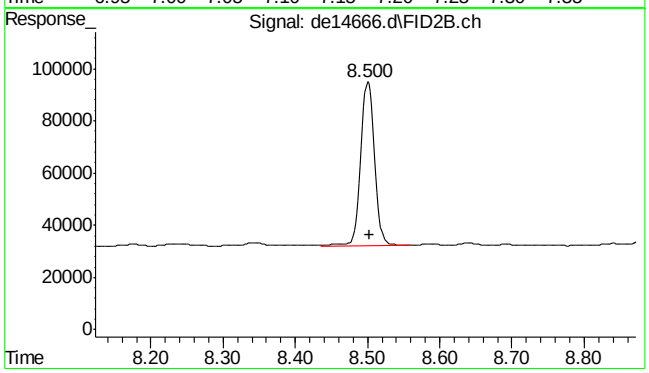
#29 2-methylnaphthalene #2

R.T.: 6.370 min
Delta R.T.: -0.003 min
Response: 85044
Conc: 1.03 µg/ml



#30 c-14

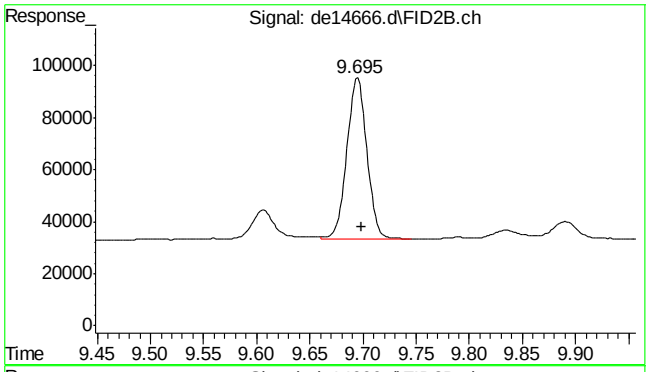
R.T.: 7.172 min
Delta R.T.: -0.003 min
Response: 80327
Conc: 1.01 µg/ml



#31 c-16

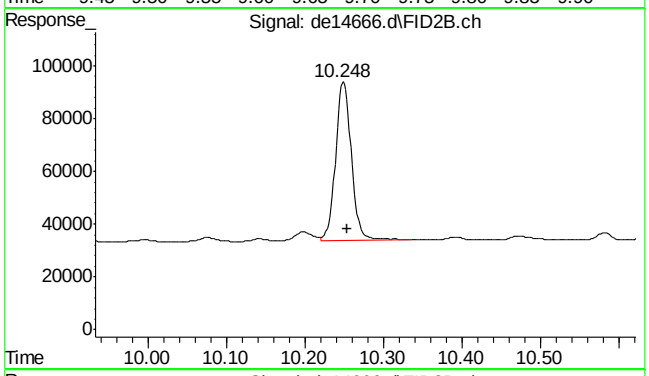
R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 83899
Conc: 1.07 µg/ml

SGS ACCUTEST MC46423



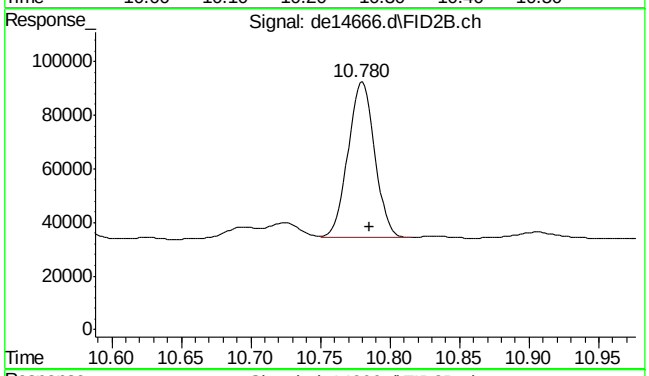
#32 c-18

R.T.: 9.695 min
Delta R.T.: -0.003 min
Response: 80411
Conc: 1.03 µg/ml



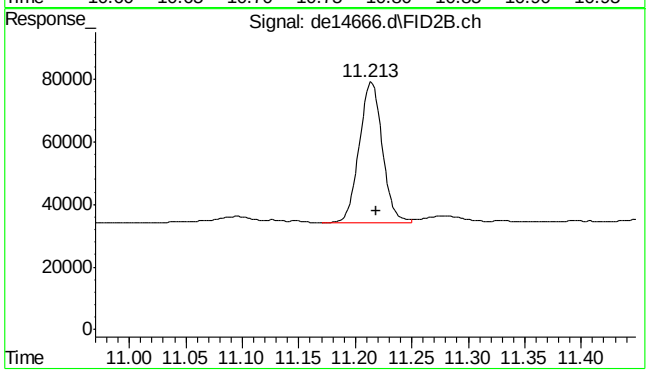
#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.005 min
Response: 84447
Conc: 1.13 µg/ml



#34 c-20

R.T.: 10.780 min
Delta R.T.: -0.005 min
Response: 77747
Conc: 1.05 µg/ml



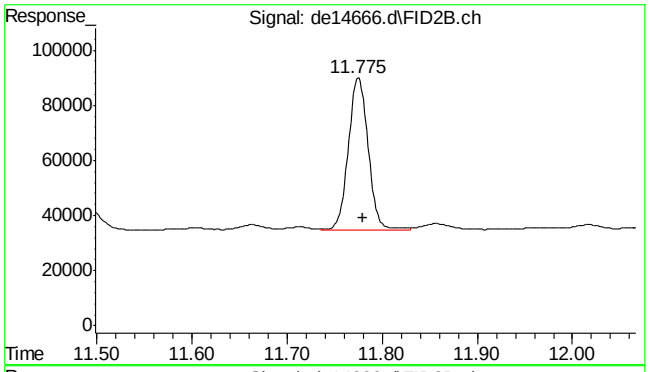
#35 1-chlorooctadecane

R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 64123
Conc: 1.10 µg/ml

9.4.1

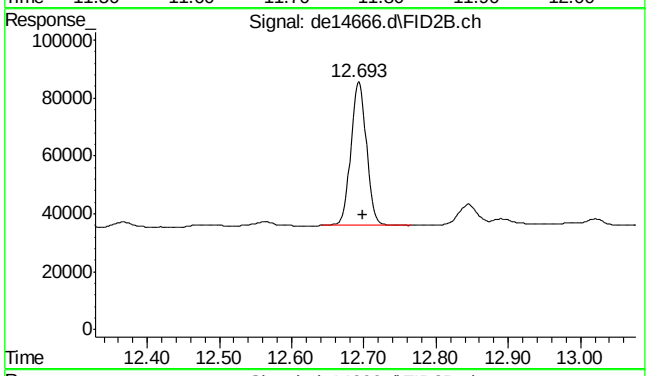
9

SGS ACCUTEST MC46423



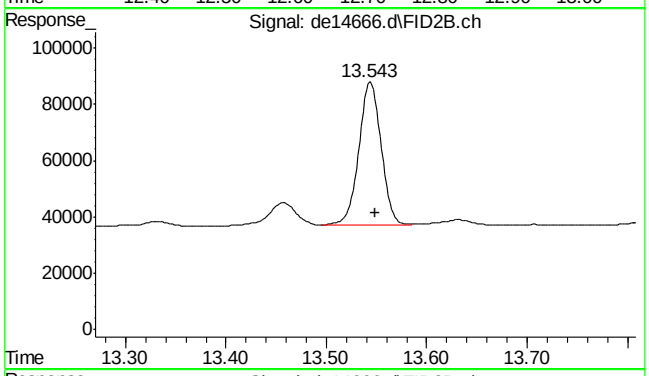
#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 79966
Conc: 1.09 µg/ml



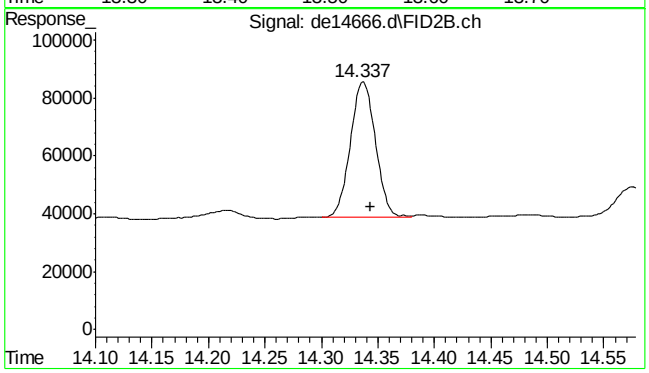
#37 c-24

R.T.: 12.693 min
Delta R.T.: -0.005 min
Response: 75293
Conc: 1.06 µg/ml



#38 c-26

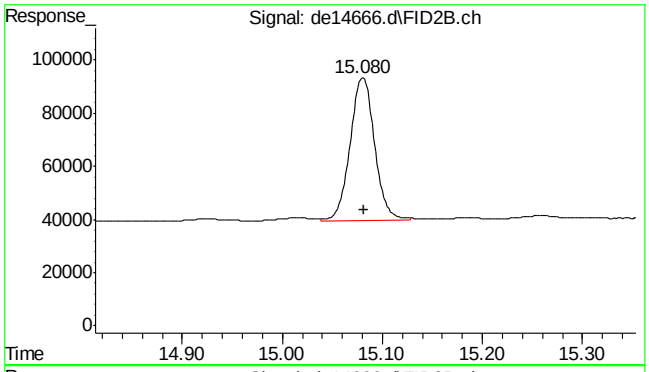
R.T.: 13.543 min
Delta R.T.: -0.005 min
Response: 77835
Conc: 1.06 µg/ml



#39 c-28

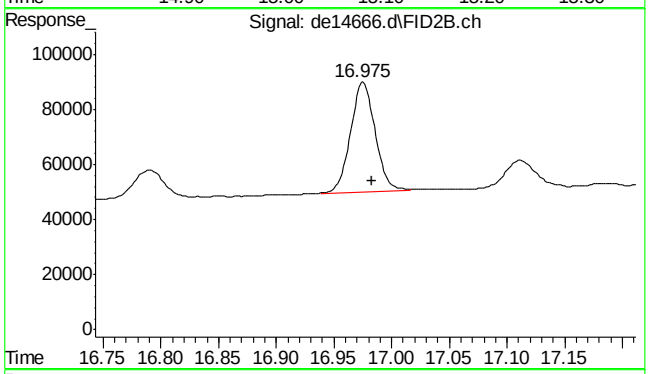
R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 72455
Conc: 1.01 µg/ml

SGS ACCUTEST MC46423



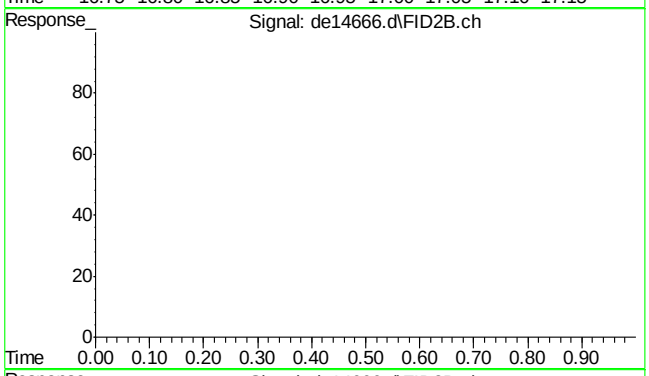
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 93535
Conc: 1.30 µg/ml m



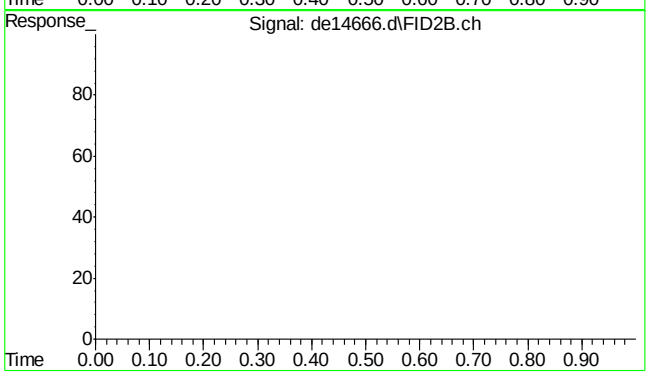
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 59371
Conc: 0.86 µg/ml m



#42 bht

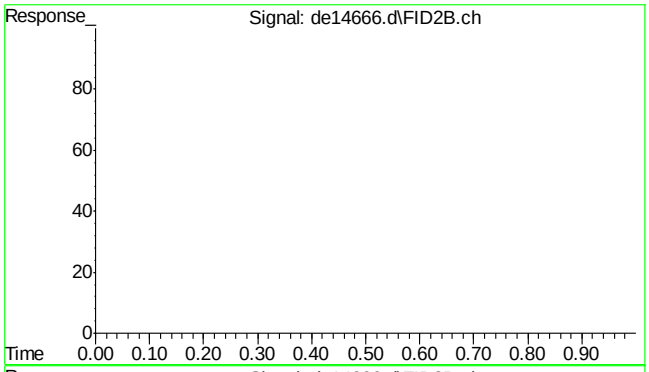
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

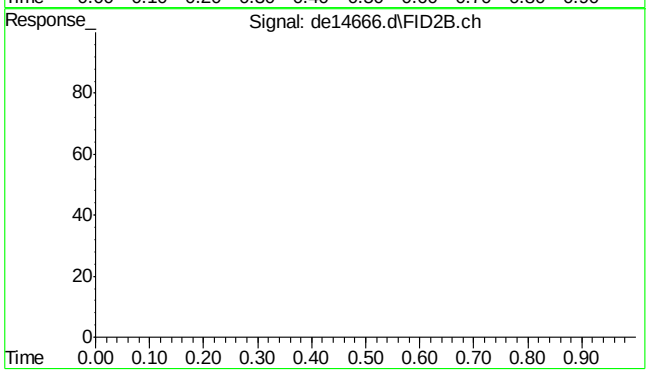
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#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.

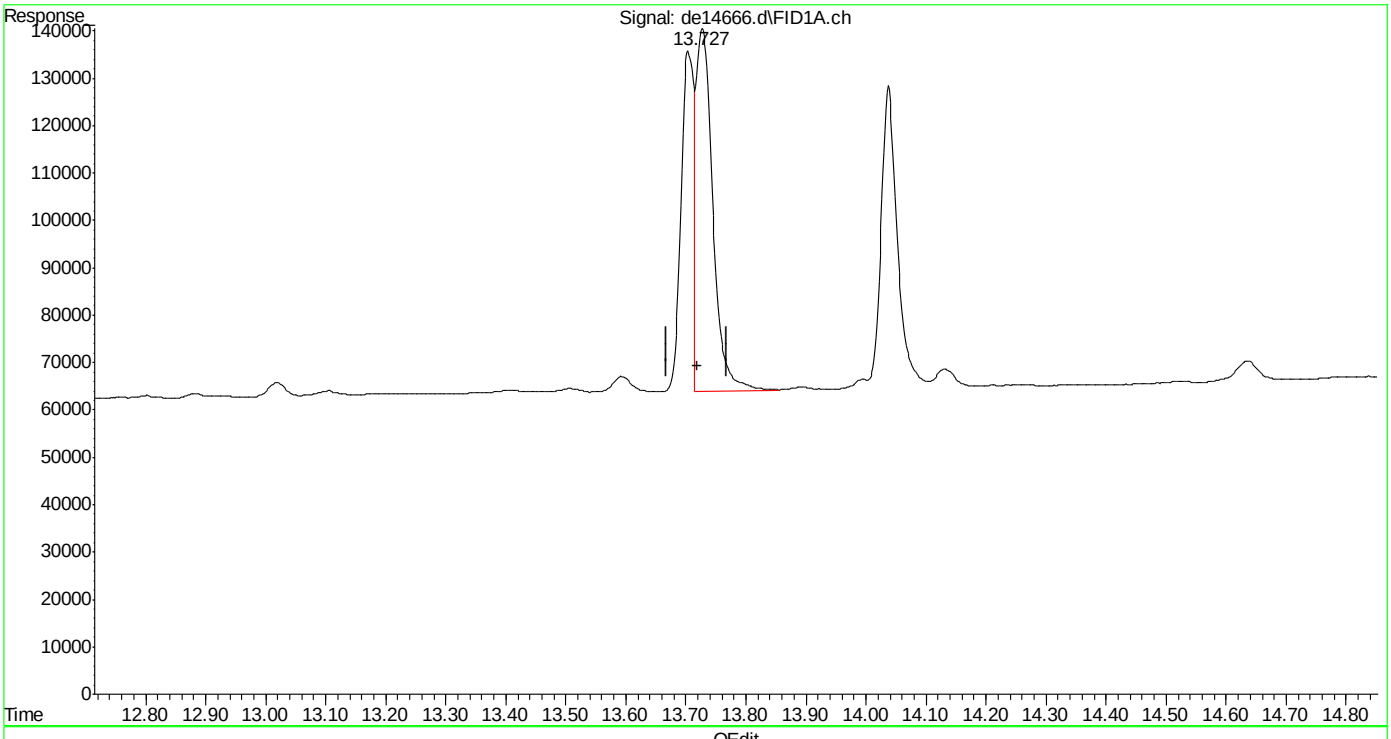
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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
13.727min 1.398 µg/ml
response 143585

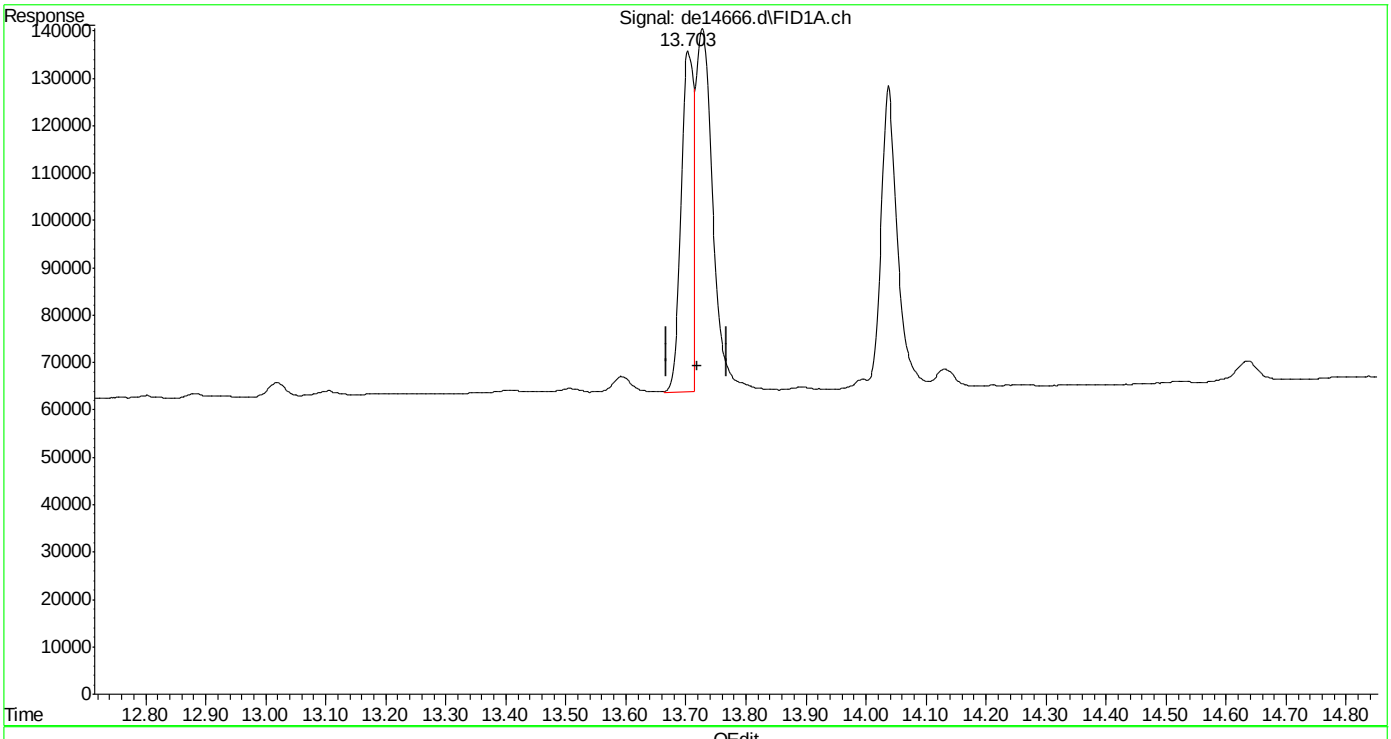
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:48:50 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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
13.703min 0.998 µg/ml m
response 102498

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:49:00 2016

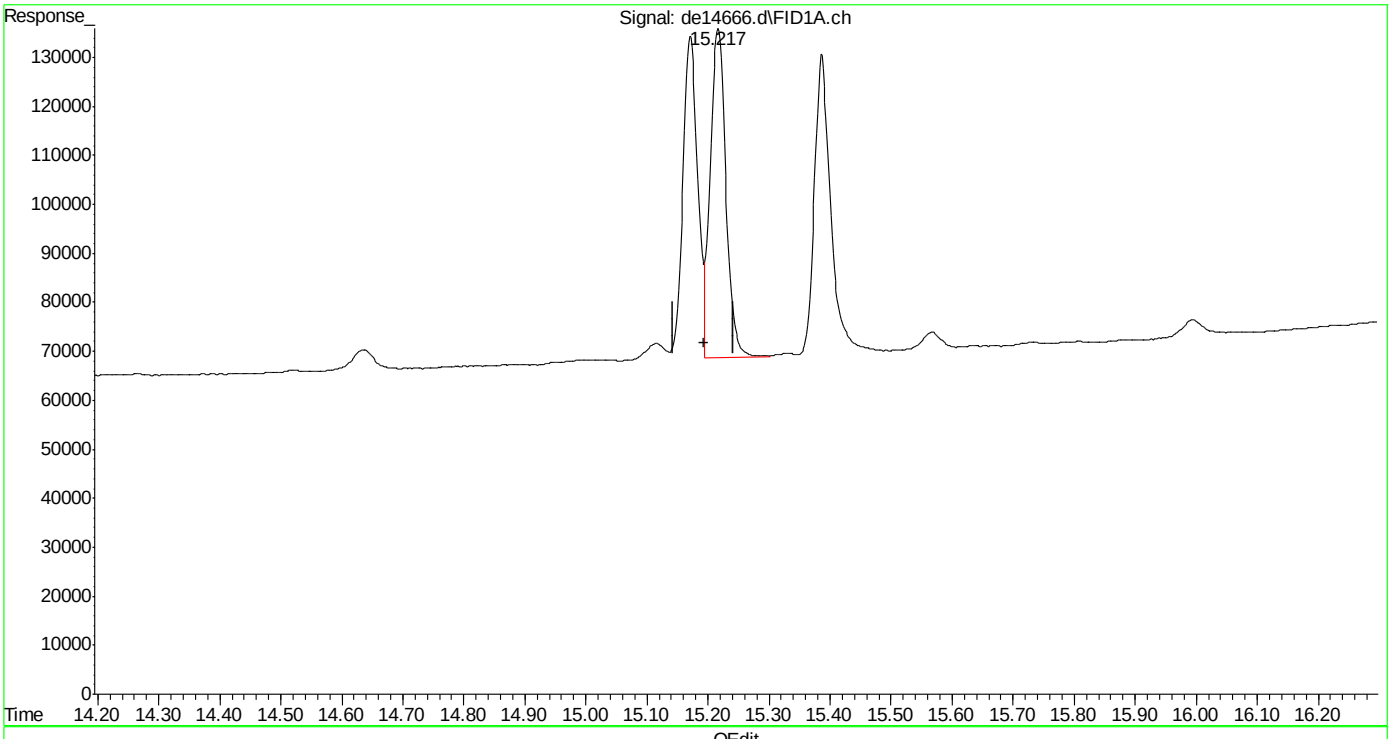
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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
15.217min 1.207 µg/ml
response 118078

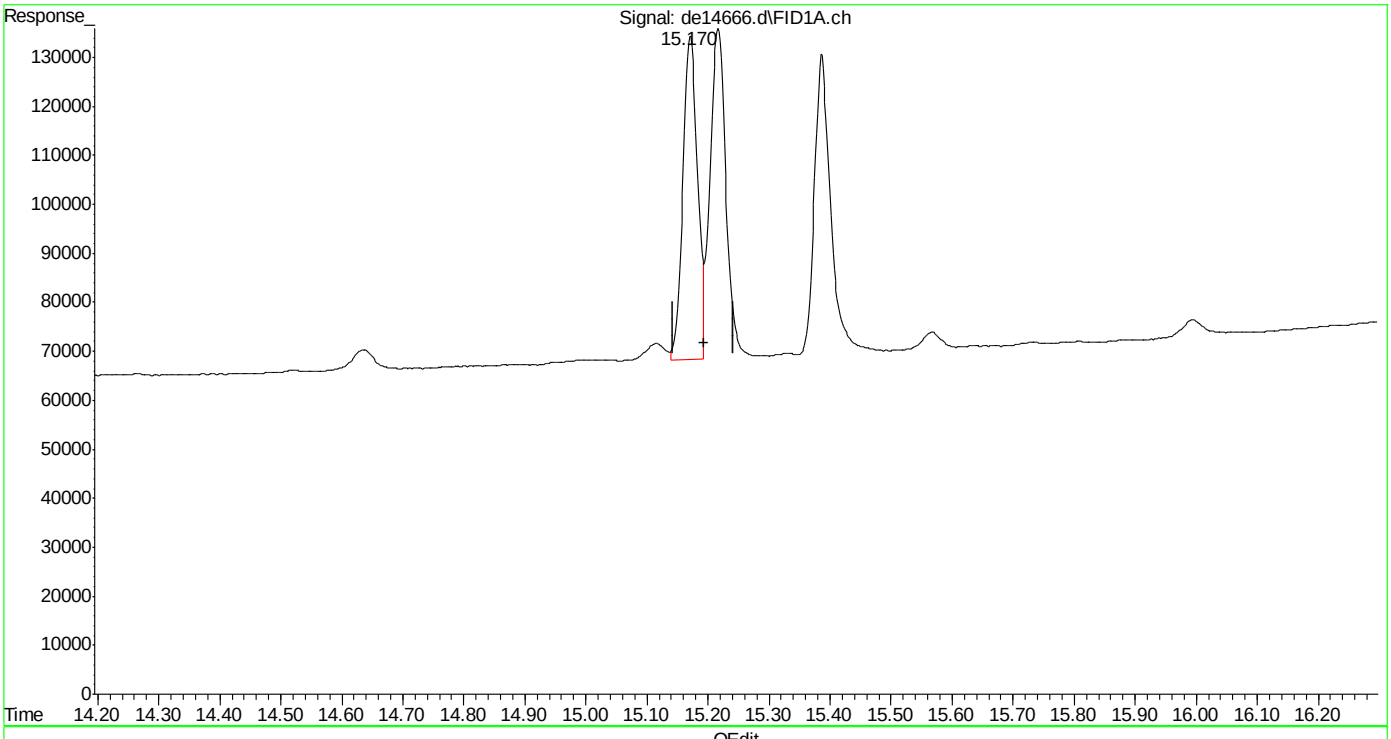
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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
15.170min 1.138 µg/ml m
response 111401

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:49:23 2016

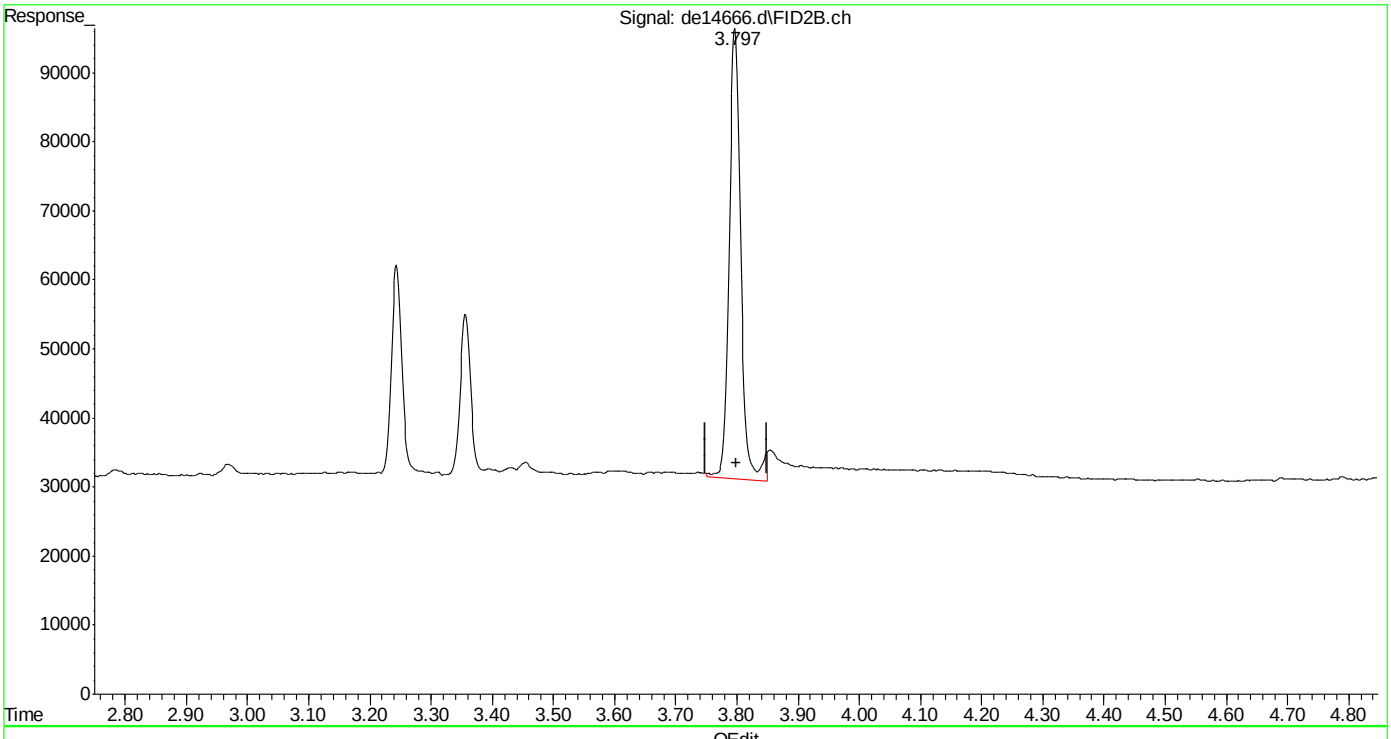
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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)
3.800min 1.080 µg/ml
response 86392

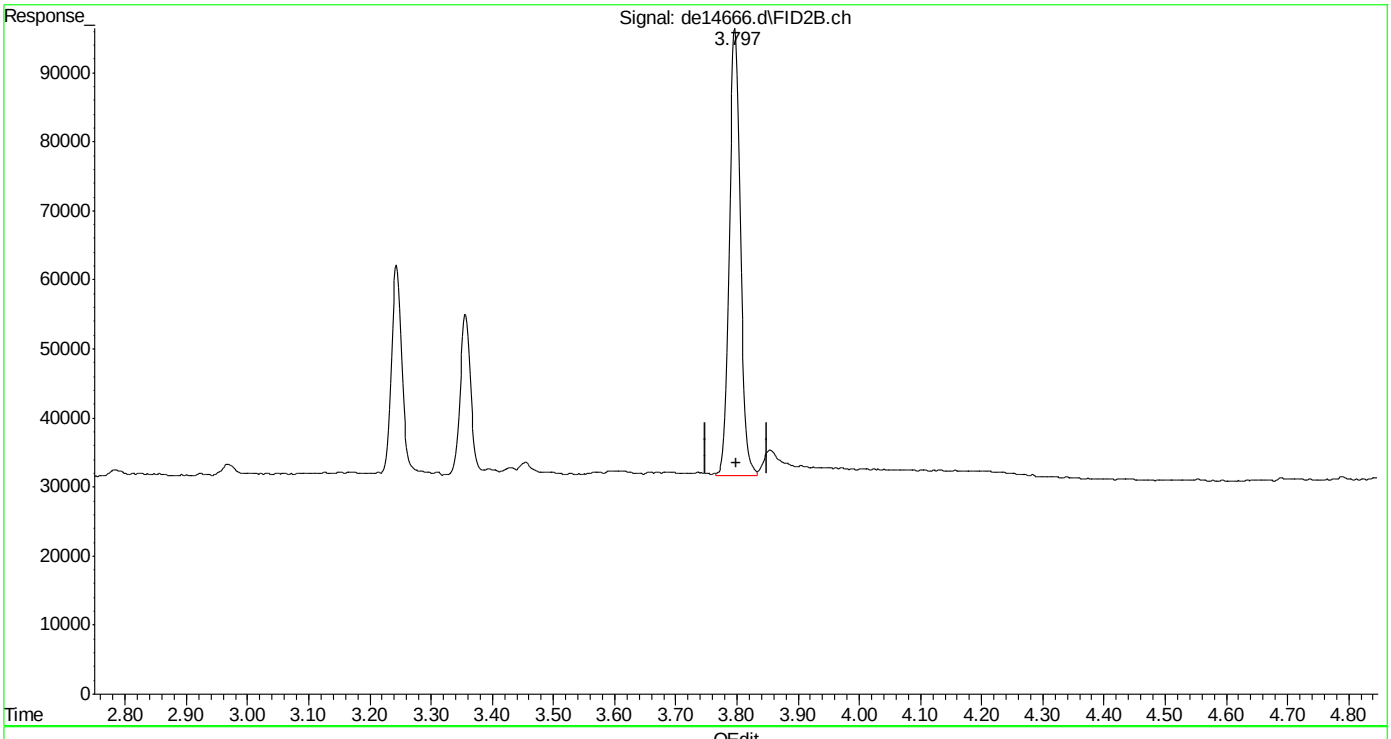
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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)
3.800min 1.021 µg/ml m
response 81660

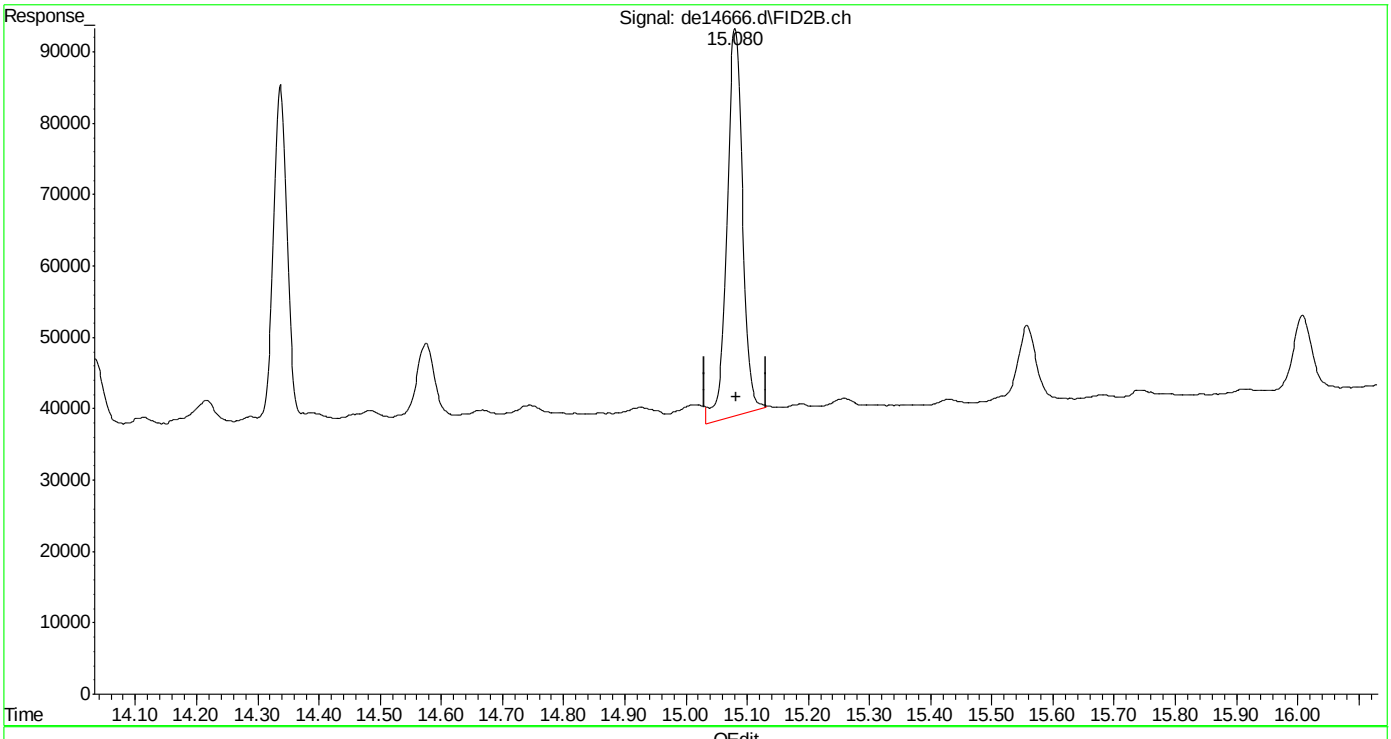
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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)
15.082min 1.345 µg/ml
response 96730

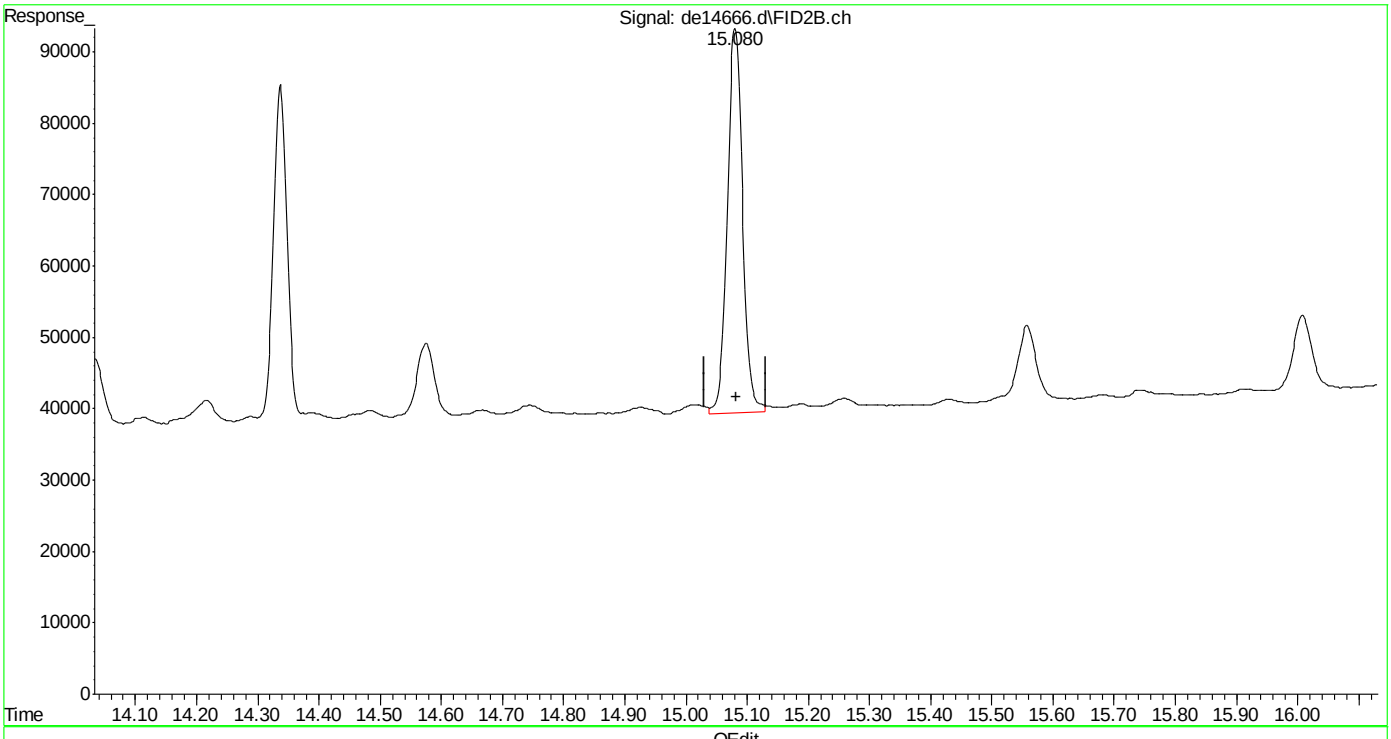
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14666.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:17 pm
Operator : thomasa
Sample : cc815-1
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 102 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:48:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:48:06 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)
15.082min 1.301 µg/ml m
response 93535

(+) = Expected Retention Time

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : ic815-2 (Sig #1); cc815-2 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:51:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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	6.488	243434	2.495 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 12.48%	
6) s 2-bromonaphthalene	7.208	135704	2.106 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 10.53%	
11) s o-terphenyl	9.743	296252	2.672 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 13.36%	
35) s 1-chlorooctadecane	11.213	143160	2.439 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 12.20%	
Target Compounds			
2) naphthalene	5.035	264011	2.430 µg/ml
3) 2-methylnaphthalene	5.933	279926	2.620 µg/ml
5) acenaphthylene	7.038	273879	2.547 µg/ml
7) acenaphthene	7.280	317977	2.780 µg/ml
8) fluorene	7.923	281653	2.604 µg/ml
9) phenanthrene	9.098	261923	2.435 µg/ml
10) anthracene	9.157	321096	2.987 µg/ml
12) fluoranthene	10.597	285254	2.652 µg/ml
13) pyrene	10.850	292246	2.664 µg/ml
14) benzo(a)anthracene	12.412	269926	2.618 µg/ml
15) chrysene	12.457	290892	2.721 µg/ml
16) benzo(B)fluoranthene	13.702	248683	2.416 µg/mlm
17) benzo(k)fluoranthene	13.728f	320118	3.041 µg/ml
18) benzo(a)pyrene	14.033	266332	2.667 µg/ml
19) indeno(1,2,3-cd)pyrene	15.170	247469	2.468 µg/mlm
20) dibenzo(ah)anthracene	15.215	255274	2.599 µg/ml
21) benzo(ghi)perylene	15.385f	246509	2.509 µg/ml
25) h c-9	2.647	185709	2.327 µg/mlm
26) h c-10	3.800	187715	2.331 µg/mlm
27) naphthalene #2	5.477	200322	2.417 µg/ml
28) c-12	5.655	183928	2.308 µg/ml
29) 2-methylnaphthalene #2	6.370	195523	2.366 µg/ml
30) c-14	7.172	186756	2.347 µg/ml
31) c-16	8.500	188090	2.338 µg/ml
32) c-18	9.693	183338	2.321 µg/ml
33) c-19	10.248	187087	2.398 µg/ml
34) c-20	10.780	178236	2.373 µg/ml
36) c-22	11.775	172417	2.279 µg/ml
37) c-24	12.693	167132	2.312 µg/ml
38) c-26	13.543	174403	2.332 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : ic815-2 (Sig #1); cc815-2 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:51:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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	14.337	160693	2.228 µg/ml
40) h	c-30	15.082	187403	2.369 µg/mlm
41) h	c-36	16.983	136856	2.088 µg/mlm

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

9.4.2

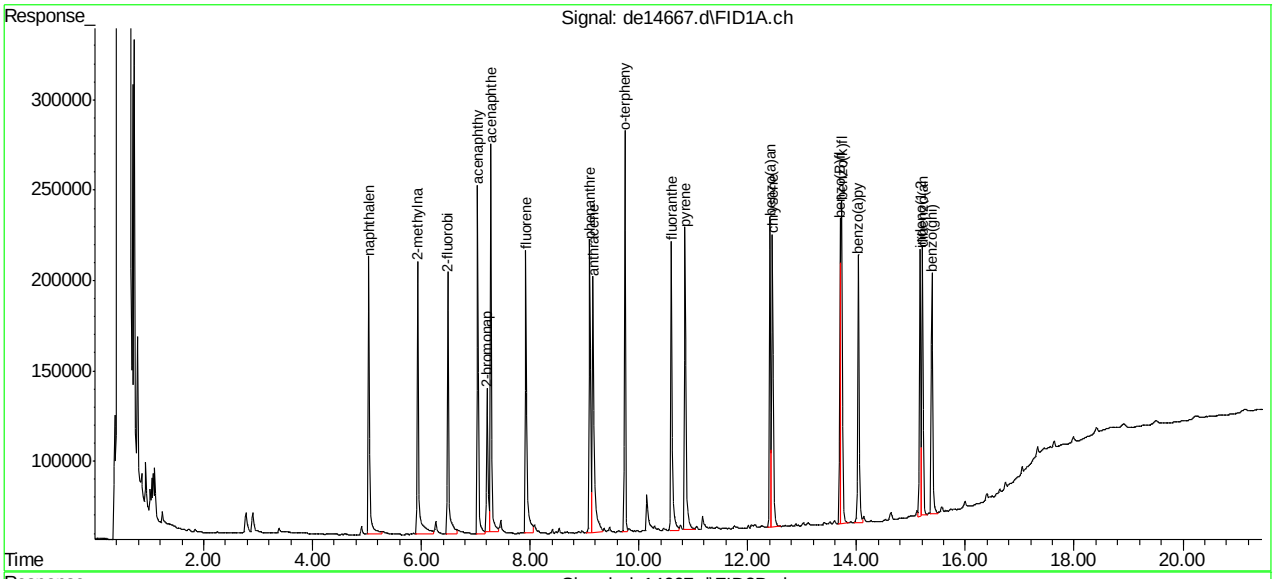
9

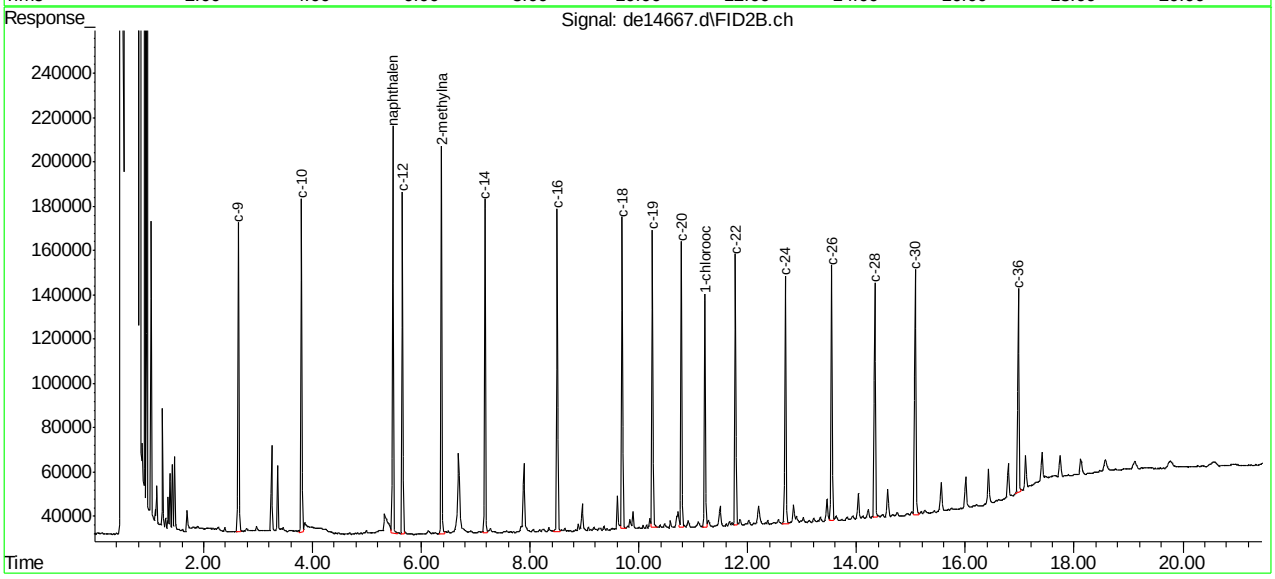
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : ic815-2 (Sig #1); cc815-2 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

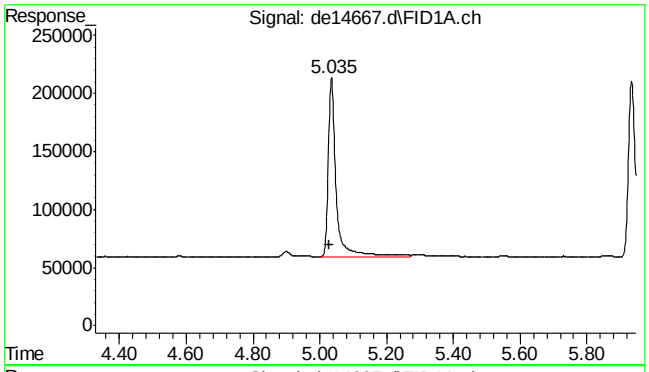
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:51:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 2016
Response via : Initial Calibration
Integrator: RTE

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



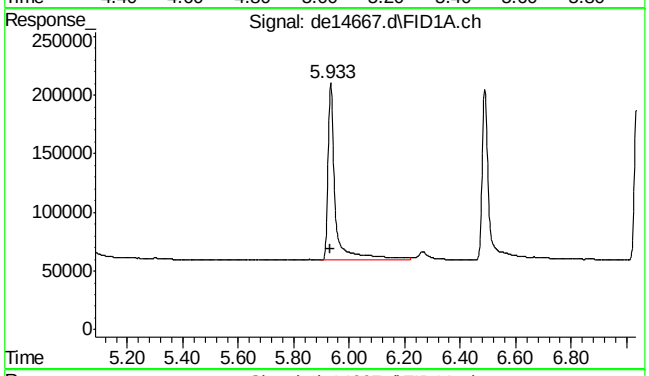


SGS ACCUTEST MC46423



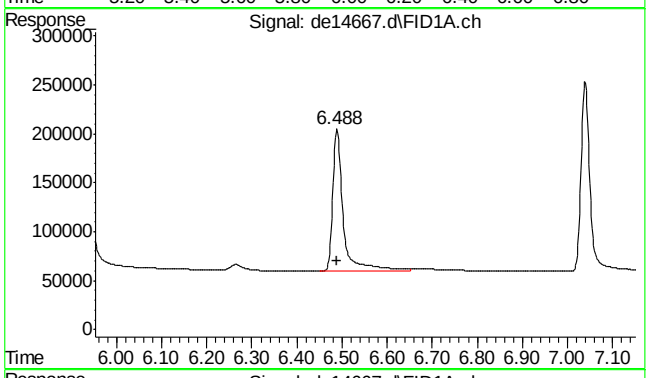
#2 naphthalene

R.T.: 5.035 min
Delta R.T.: 0.005 min
Response: 264011
Conc: 2.43 µg/ml



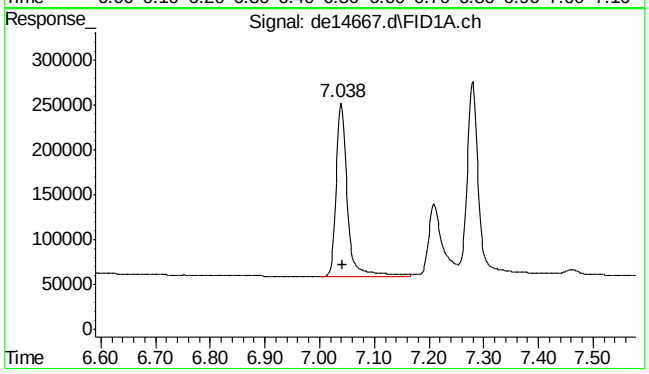
#3 2-methylnaphthalene

R.T.: 5.933 min
Delta R.T.: 0.002 min
Response: 279926
Conc: 2.62 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.488 min
Delta R.T.: 0.000 min
Response: 243434
Conc: 2.50 µg/ml



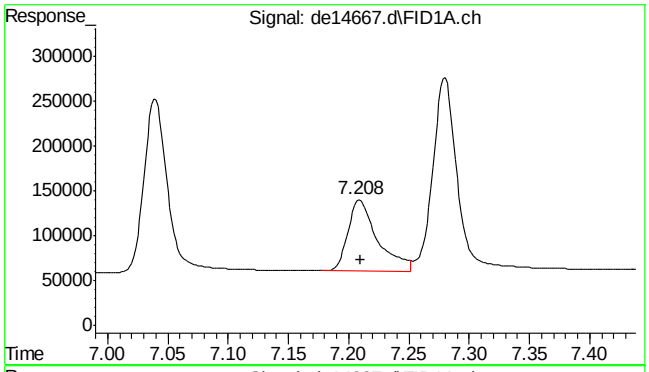
#5 acenaphthylene

R.T.: 7.038 min
Delta R.T.: -0.003 min
Response: 273879
Conc: 2.55 µg/ml

9.4.2

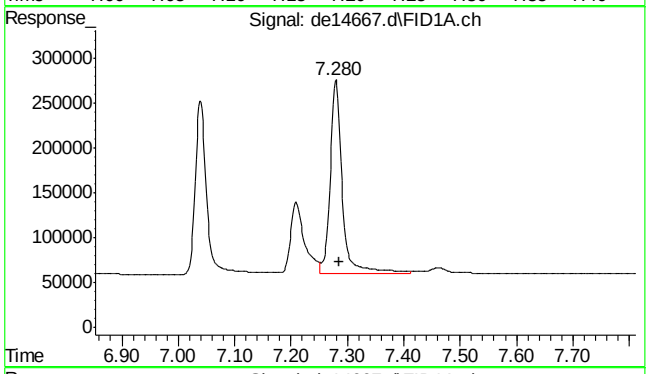
9

SGS ACCUTEST MC46423



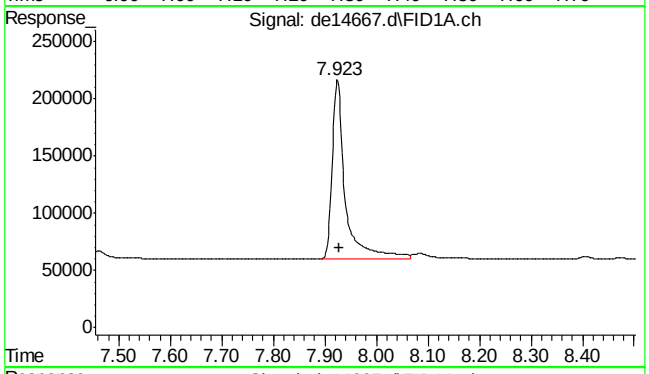
#6 2-bromonaphthalene

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 135704
Conc: 2.11 µg/ml



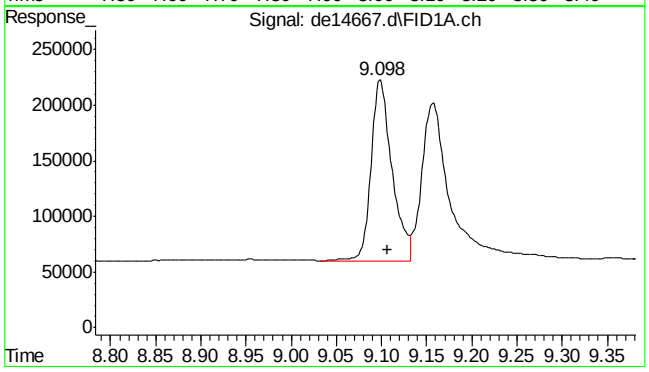
#7 acenaphthene

R.T.: 7.280 min
Delta R.T.: -0.005 min
Response: 317977
Conc: 2.78 µg/ml



#8 fluorene

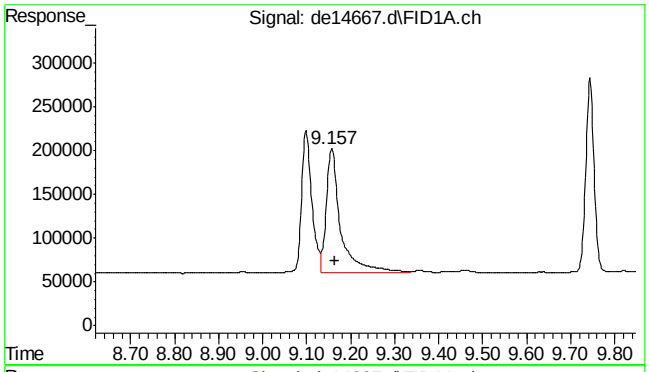
R.T.: 7.923 min
Delta R.T.: -0.005 min
Response: 281653
Conc: 2.60 µg/ml



#9 phenanthrene

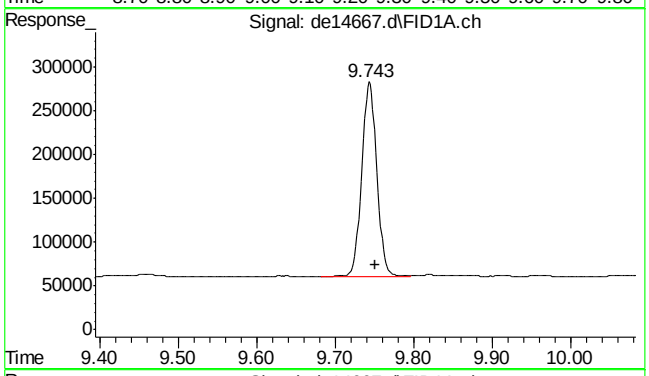
R.T.: 9.098 min
Delta R.T.: -0.008 min
Response: 261923
Conc: 2.44 µg/ml

SGS ACCUTEST MC46423



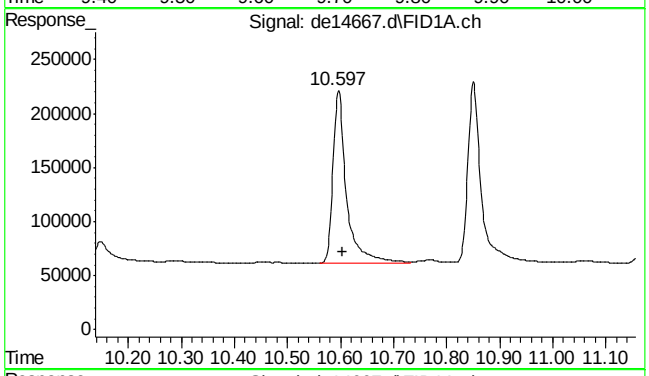
#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 321096
Conc: 2.99 µg/ml



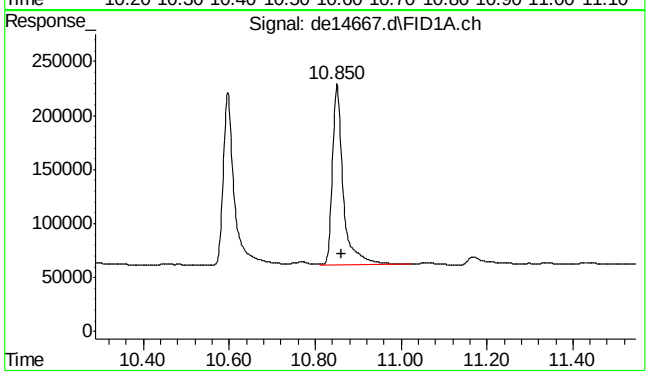
#11 o-terphenyl

R.T.: 9.743 min
Delta R.T.: -0.008 min
Response: 296252
Conc: 2.67 µg/ml



#12 fluoranthene

R.T.: 10.597 min
Delta R.T.: -0.008 min
Response: 285254
Conc: 2.65 µg/ml



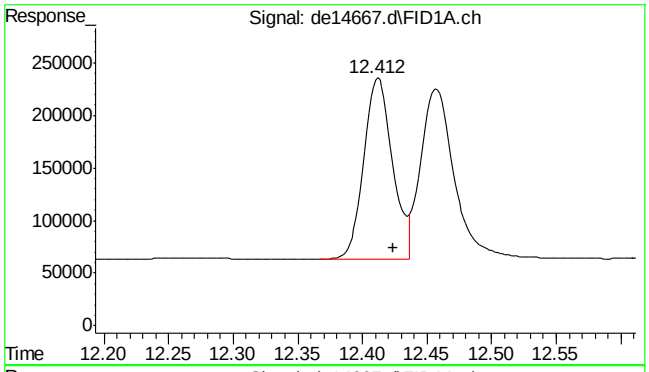
#13 pyrene

R.T.: 10.850 min
Delta R.T.: -0.012 min
Response: 292246
Conc: 2.66 µg/ml

9.4.2

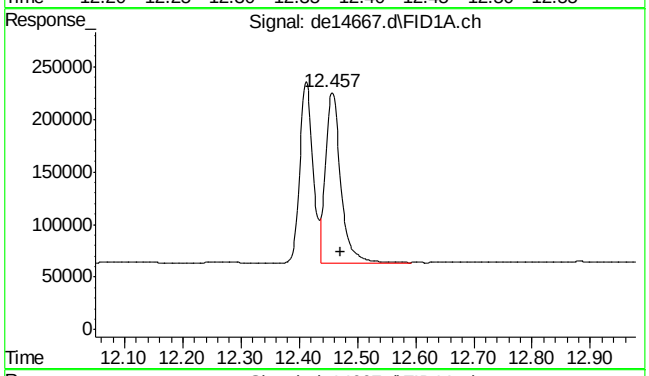
9

SGS ACCUTEST MC46423



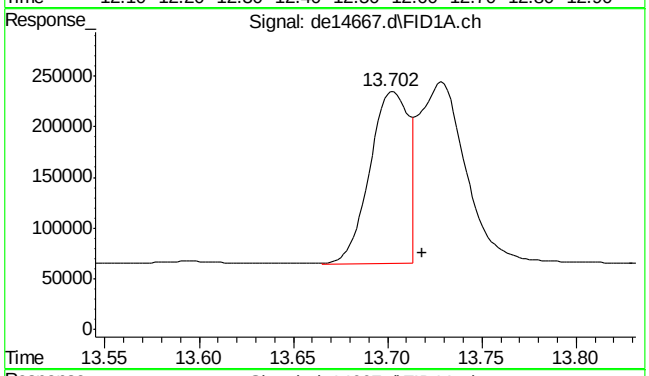
#14 benzo(a)anthracene

R.T.: 12.412 min
Delta R.T.: -0.012 min
Response: 269926
Conc: 2.62 µg/ml



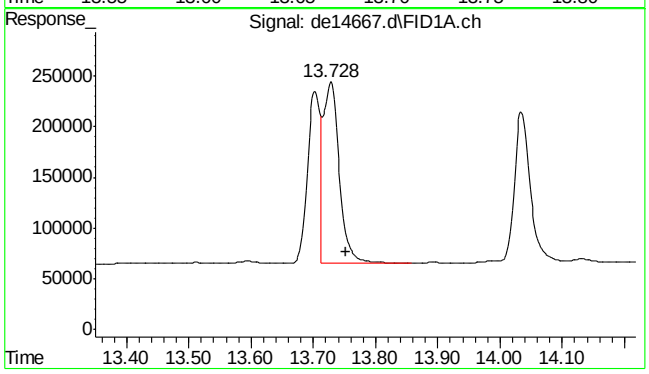
#15 chrysene

R.T.: 12.457 min
Delta R.T.: -0.015 min
Response: 290892
Conc: 2.72 µg/ml



#16 benzo(B)fluoranthene

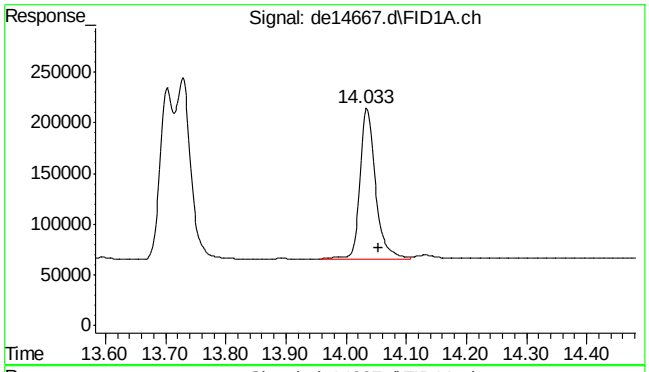
R.T.: 13.702 min
Delta R.T.: -0.017 min
Response: 248683
Conc: 2.42 µg/ml m



#17 benzo(k)fluoranthene

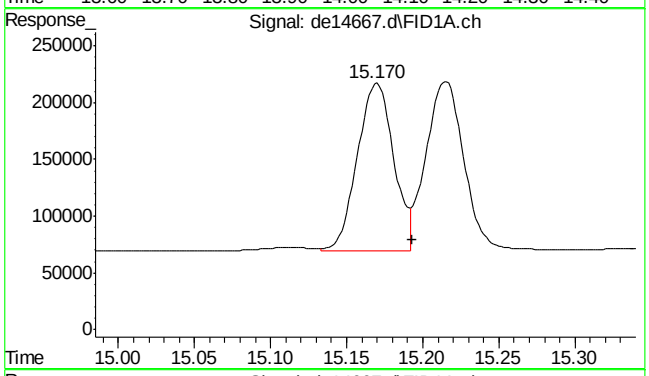
R.T.: 13.728 min
Delta R.T.: -0.025 min
Response: 320118
Conc: 3.04 µg/ml

SGS ACCUTEST MC46423



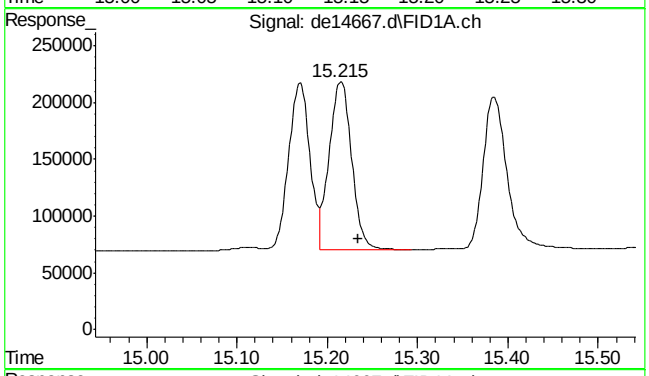
#18 benzo(a)pyrene

R.T.: 14.033 min
Delta R.T.: -0.020 min
Response: 266332
Conc: 2.67 µg/ml



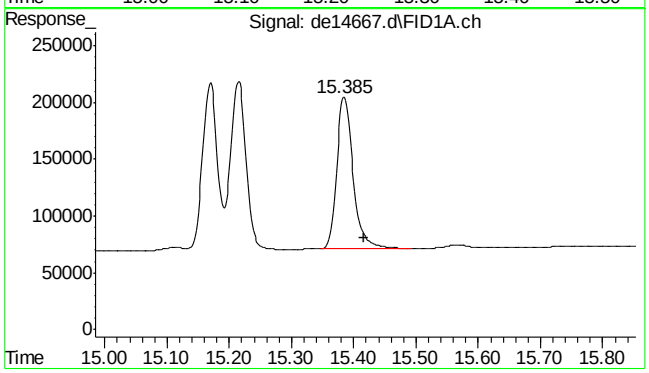
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.170 min
Delta R.T.: -0.023 min
Response: 247469
Conc: 2.47 µg/ml m



#20 dibenzo(ah)anthracene

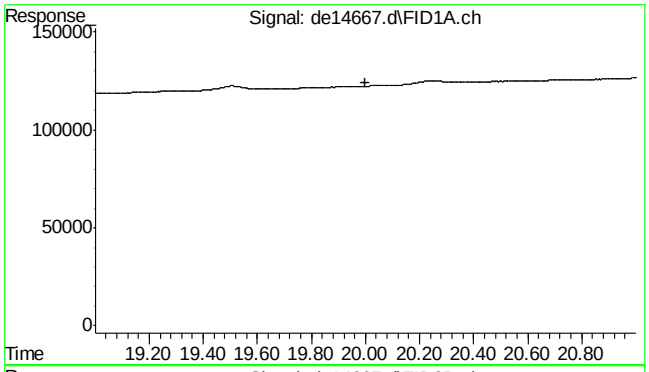
R.T.: 15.215 min
Delta R.T.: -0.020 min
Response: 255274
Conc: 2.60 µg/ml



#21 benzo(ghi)perylene

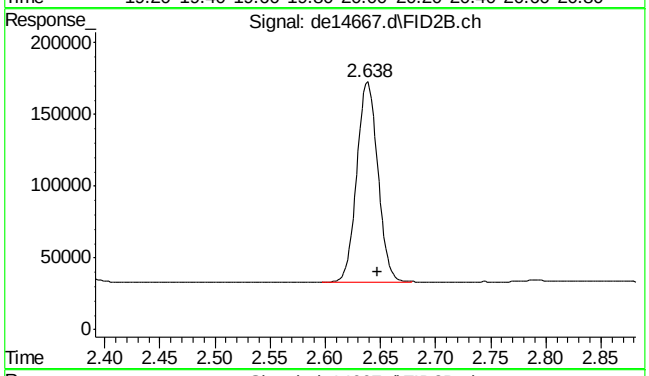
R.T.: 15.385 min
Delta R.T.: -0.032 min
Response: 246509
Conc: 2.51 µg/ml

SGS ACCUTEST MC46423



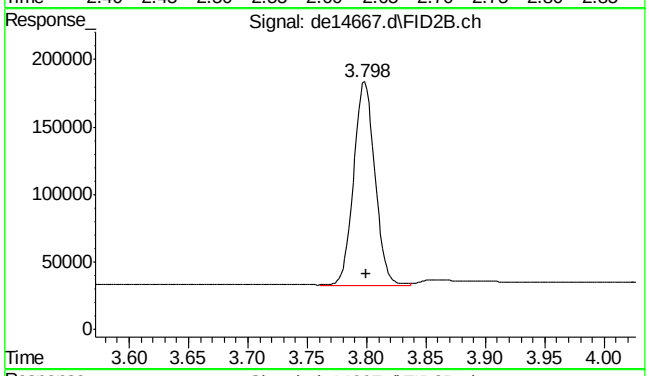
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



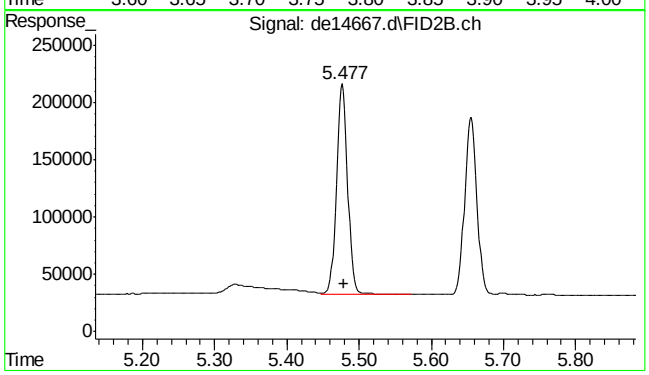
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 185709
Conc: 2.33 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 187715
Conc: 2.33 µg/ml m



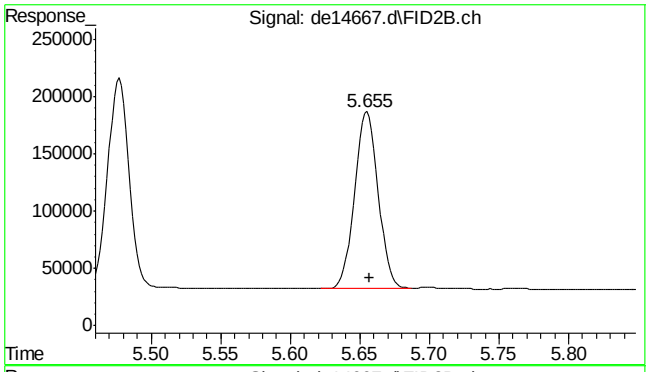
#27 naphthalene #2

R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 200322
Conc: 2.42 µg/ml

9.4.2

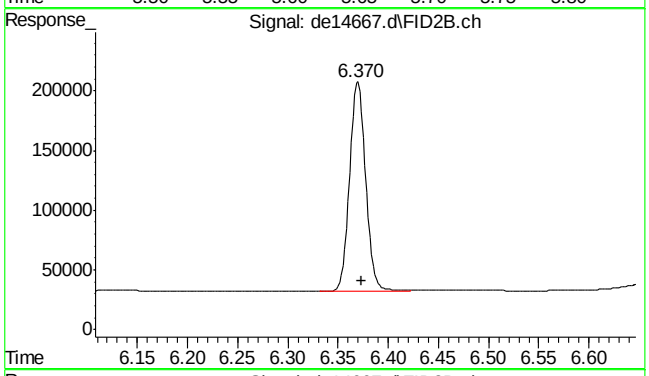
9

SGS ACCUTEST MC46423



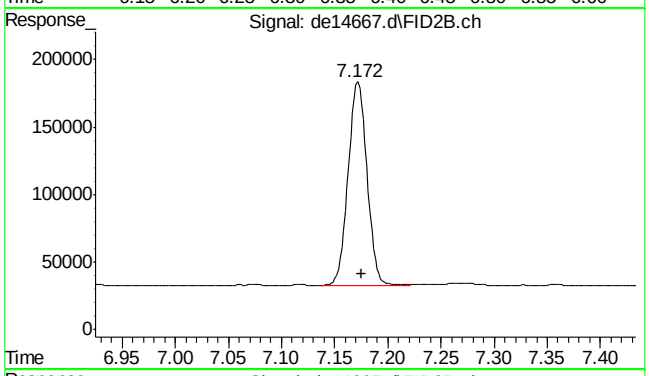
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 183928
Conc: 2.31 µg/ml



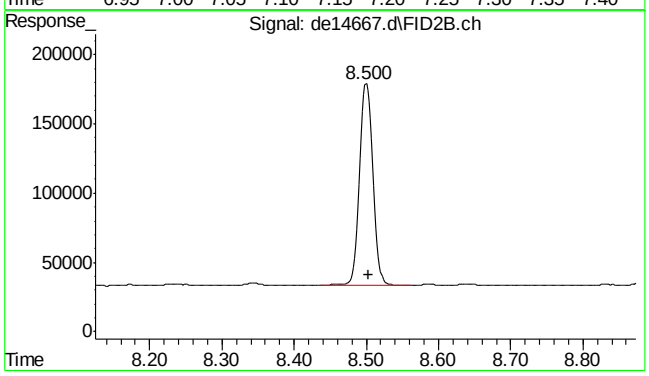
#29 2-methylnaphthalene #2

R.T.: 6.370 min
Delta R.T.: -0.003 min
Response: 195523
Conc: 2.37 µg/ml



#30 c-14

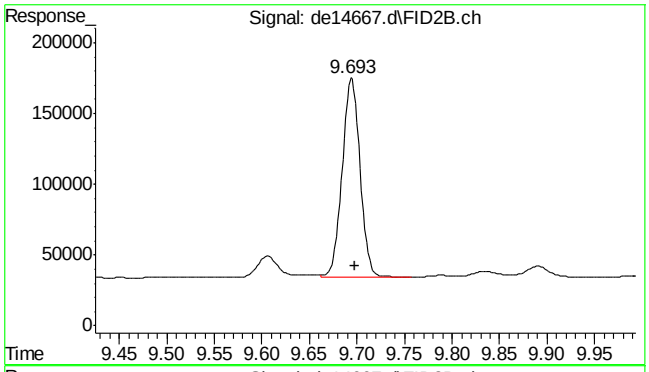
R.T.: 7.172 min
Delta R.T.: -0.003 min
Response: 186756
Conc: 2.35 µg/ml



#31 c-16

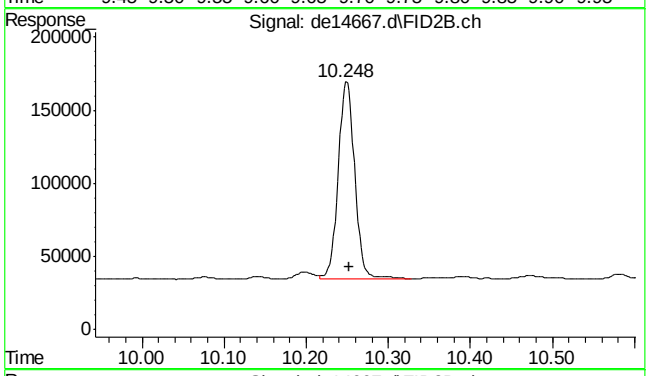
R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 188090
Conc: 2.34 µg/ml

SGS ACCUTEST MC46423



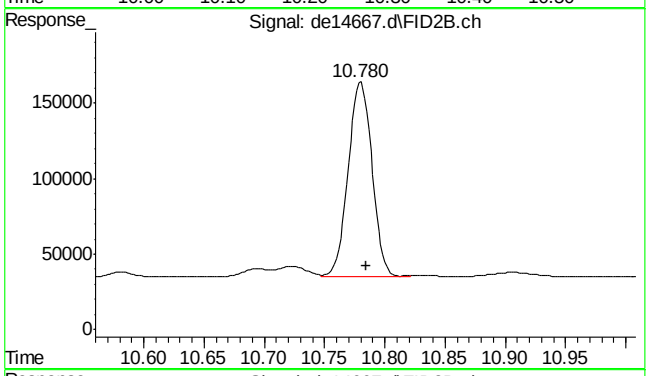
#32 c-18

R.T.: 9.693 min
Delta R.T.: -0.005 min
Response: 183338
Conc: 2.32 µg/ml



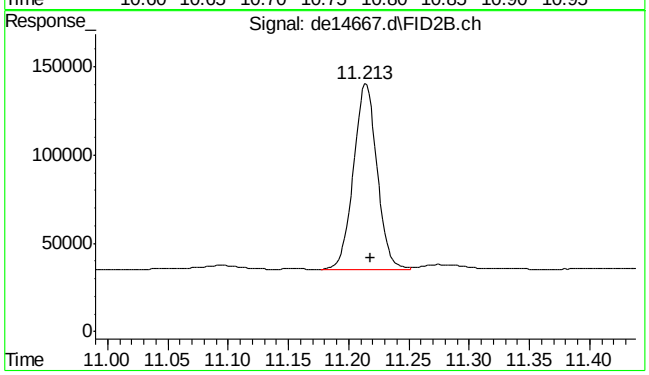
#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.005 min
Response: 187087
Conc: 2.40 µg/ml



#34 c-20

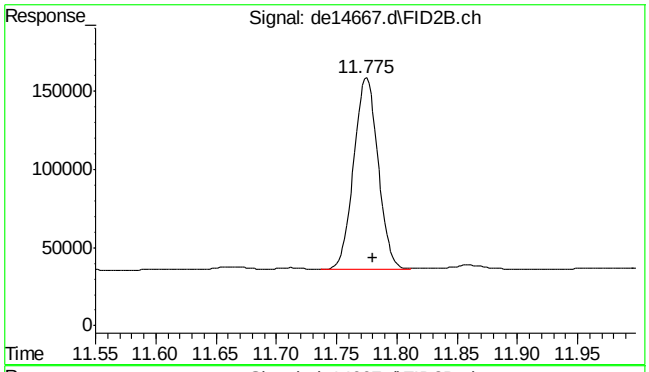
R.T.: 10.780 min
Delta R.T.: -0.005 min
Response: 178236
Conc: 2.37 µg/ml



#35 1-chlorooctadecane

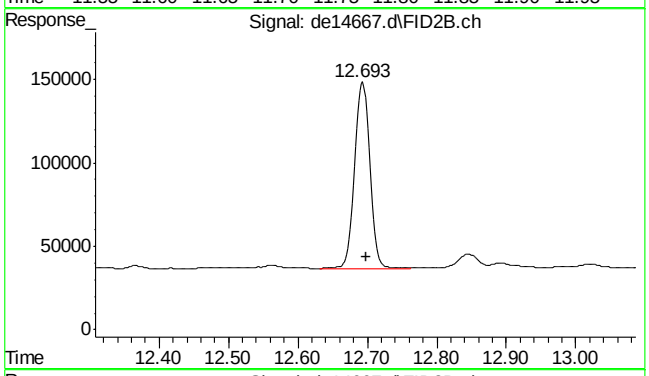
R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 143160
Conc: 2.44 µg/ml

SGS ACCUTEST MC46423



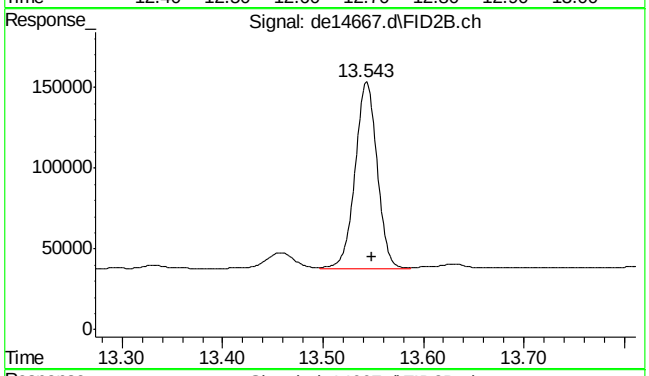
#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 172417
Conc: 2.28 µg/ml



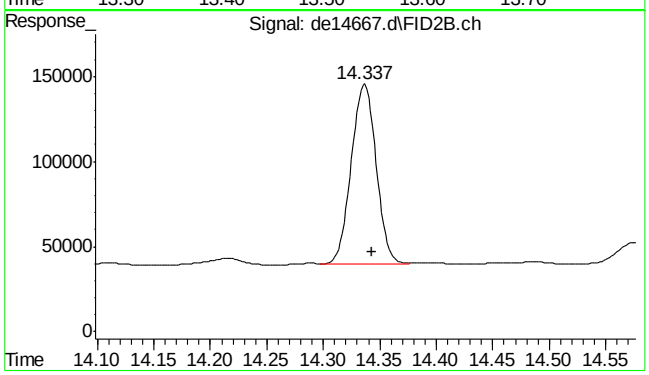
#37 c-24

R.T.: 12.693 min
Delta R.T.: -0.005 min
Response: 167132
Conc: 2.31 µg/ml



#38 c-26

R.T.: 13.543 min
Delta R.T.: -0.005 min
Response: 174403
Conc: 2.33 µg/ml



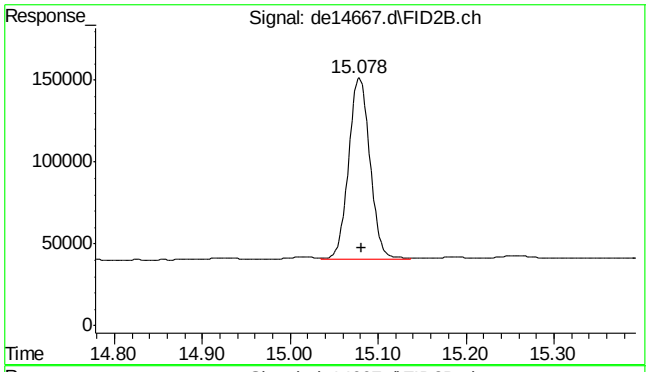
#39 c-28

R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 160693
Conc: 2.23 µg/ml

9.4.2

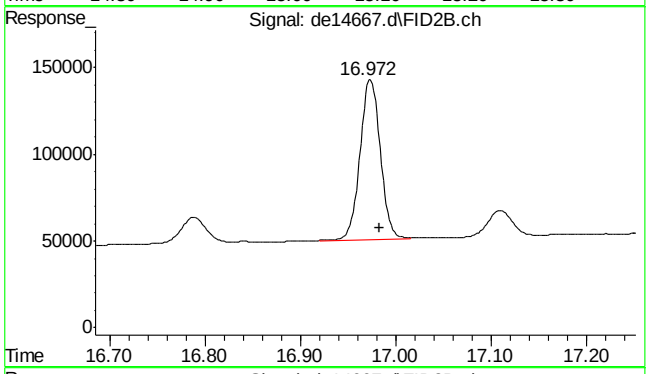
9

SGS ACCUTEST MC46423



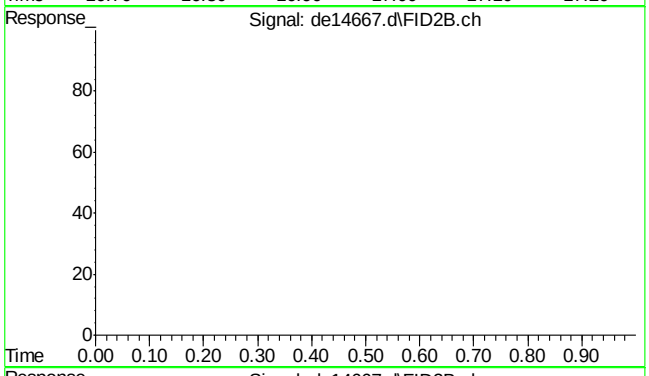
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 187403
Conc: 2.37 µg/ml m



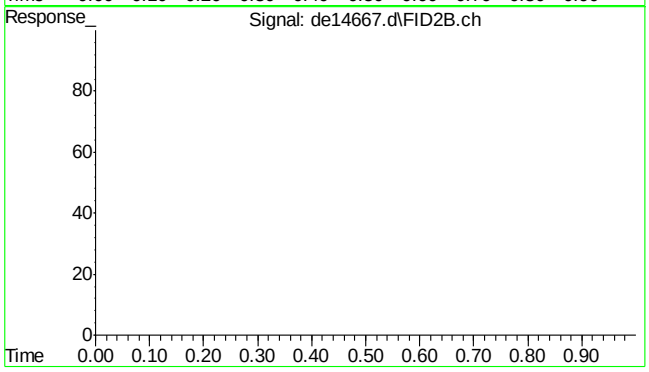
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 136856
Conc: 2.09 µg/ml m



#42 bht

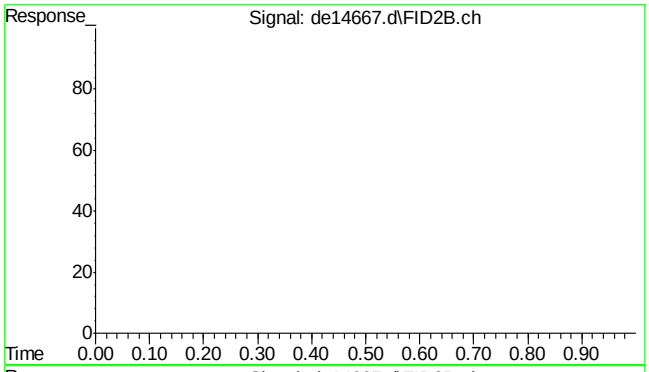
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

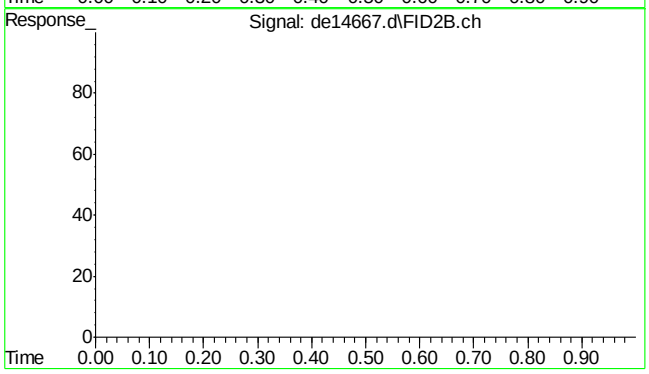
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#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.

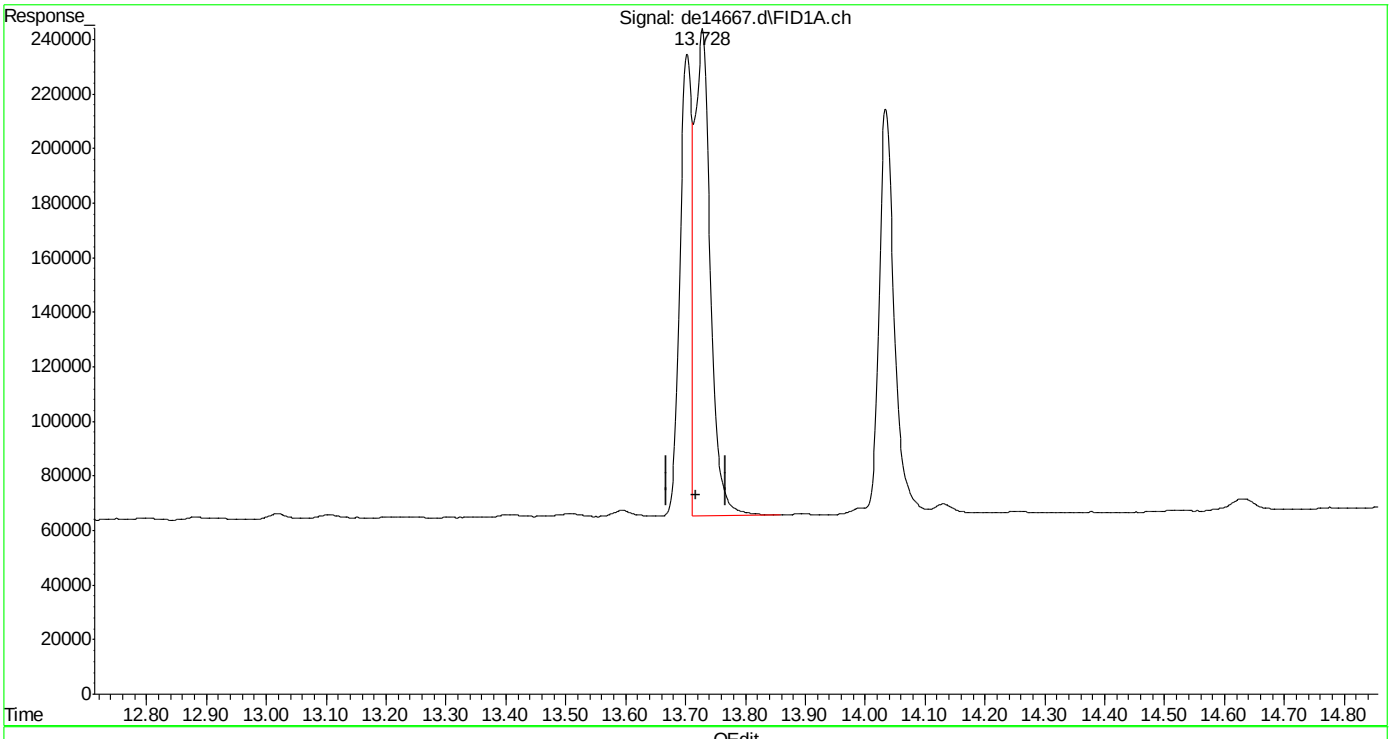
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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
13.728min 3.110 µg/ml
response 320118

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:40 2016

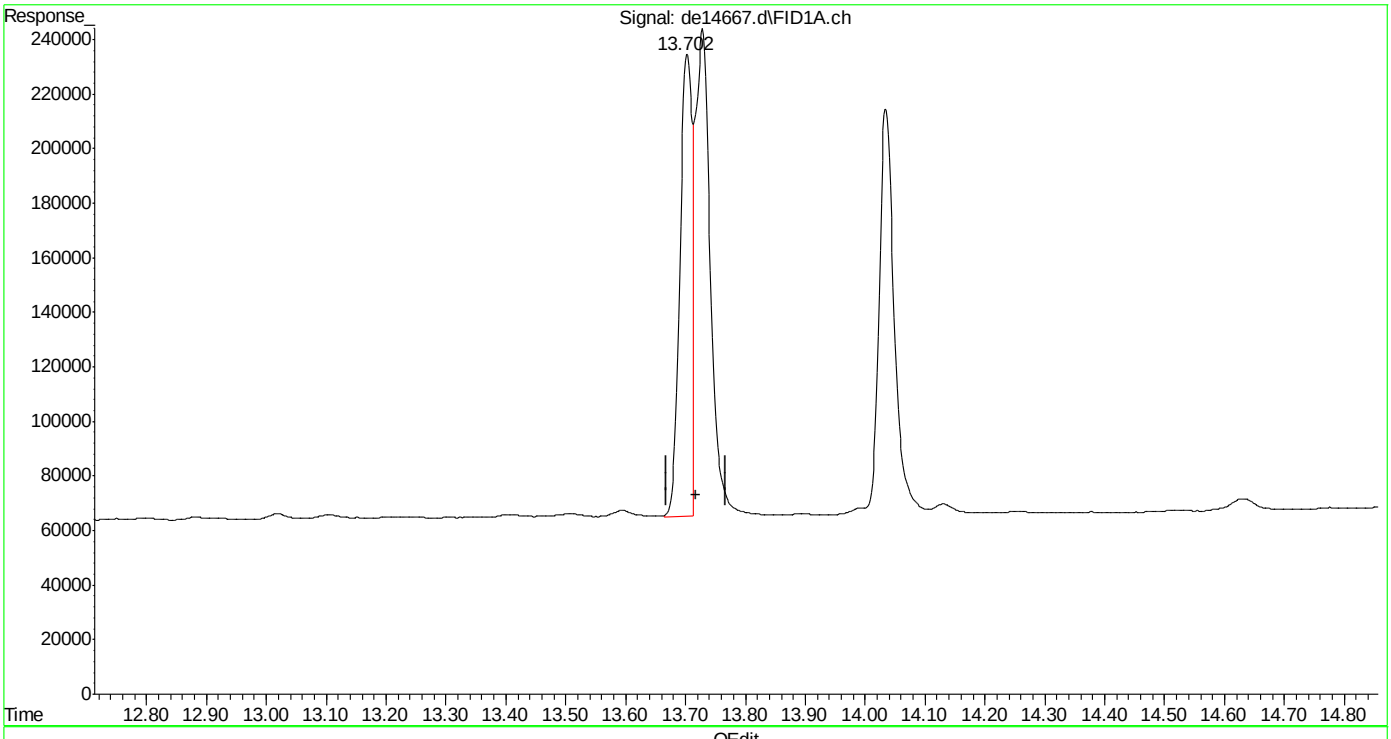
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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
13.702min 2.416 µg/ml m
response 248683

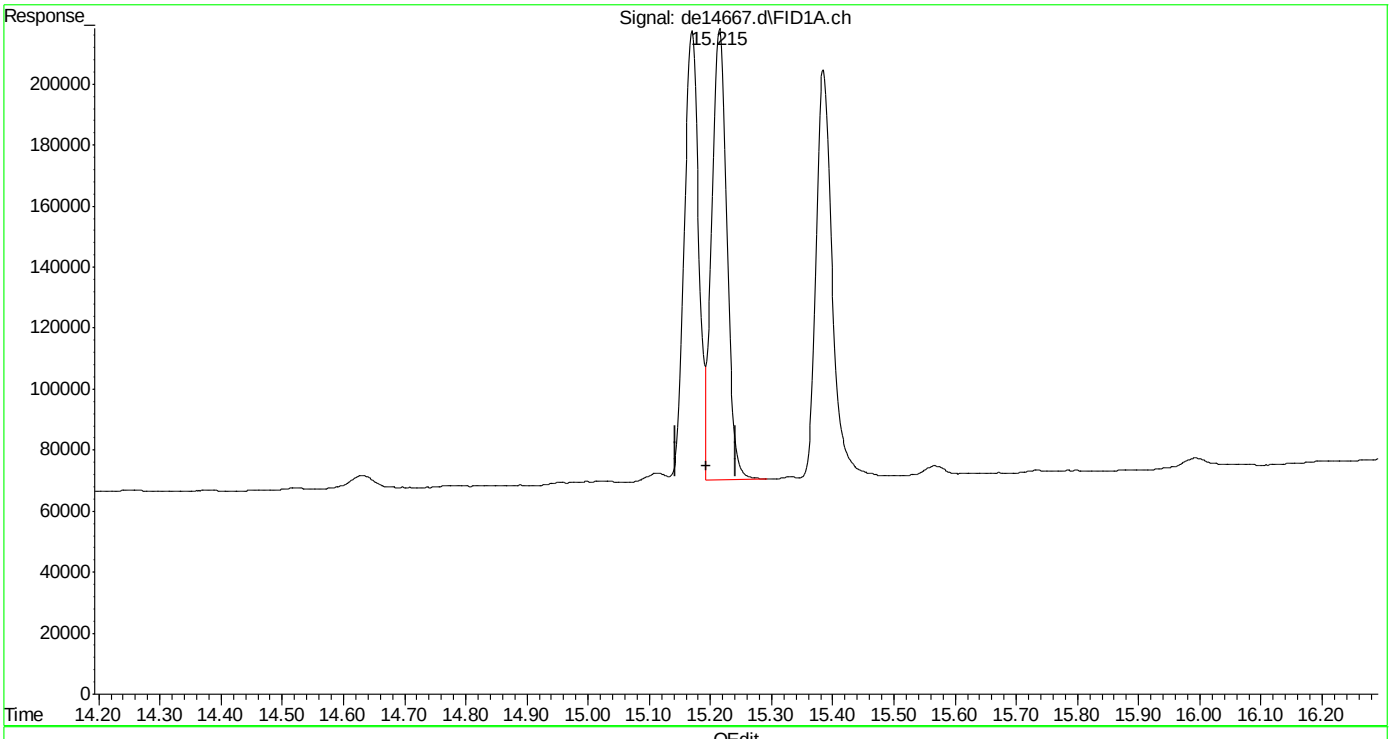
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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
15.215min 2.546 µg/ml
response 255274

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:55 2016

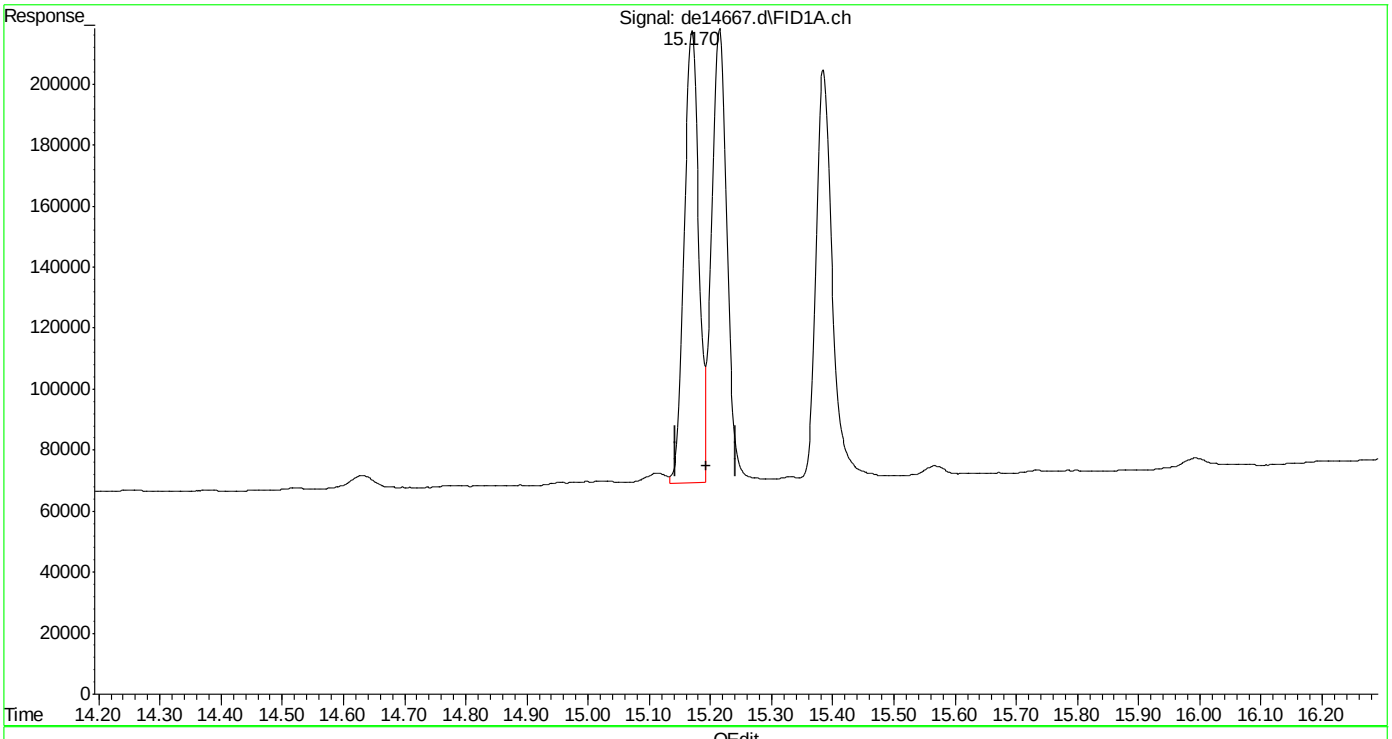
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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
15.170min 2.468 µg/ml m
response 247469

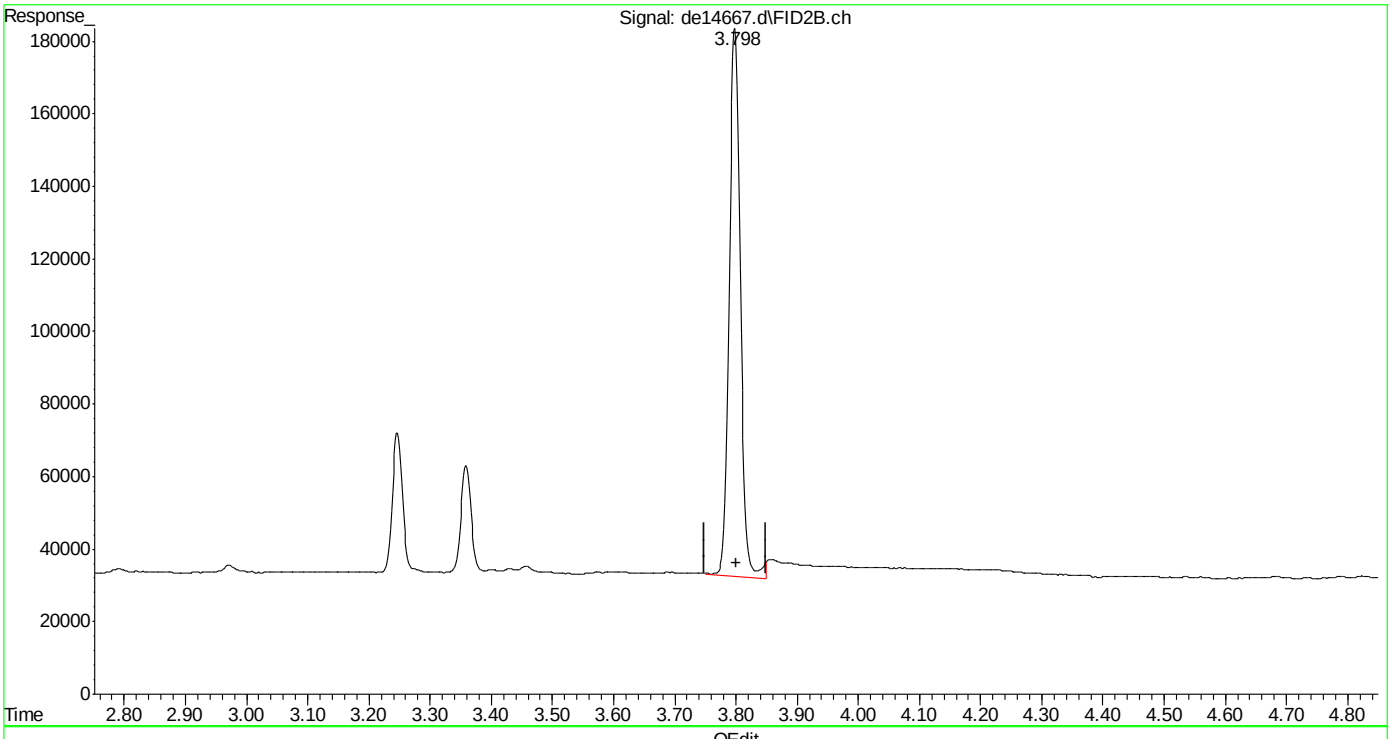
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:51:03 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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)
3.800min 2.392 µg/ml
response 192627

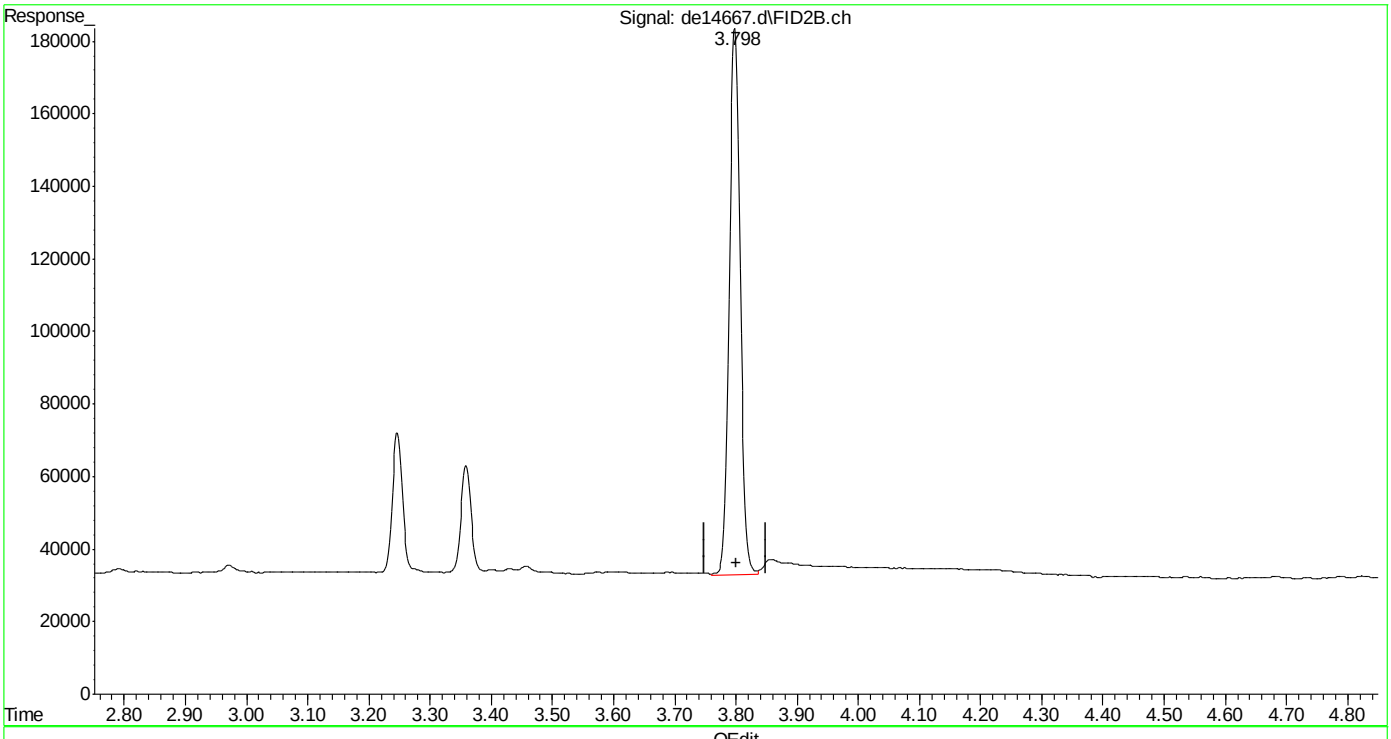
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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)
3.800min 2.331 µg/ml m
response 187715

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:51:20 2016

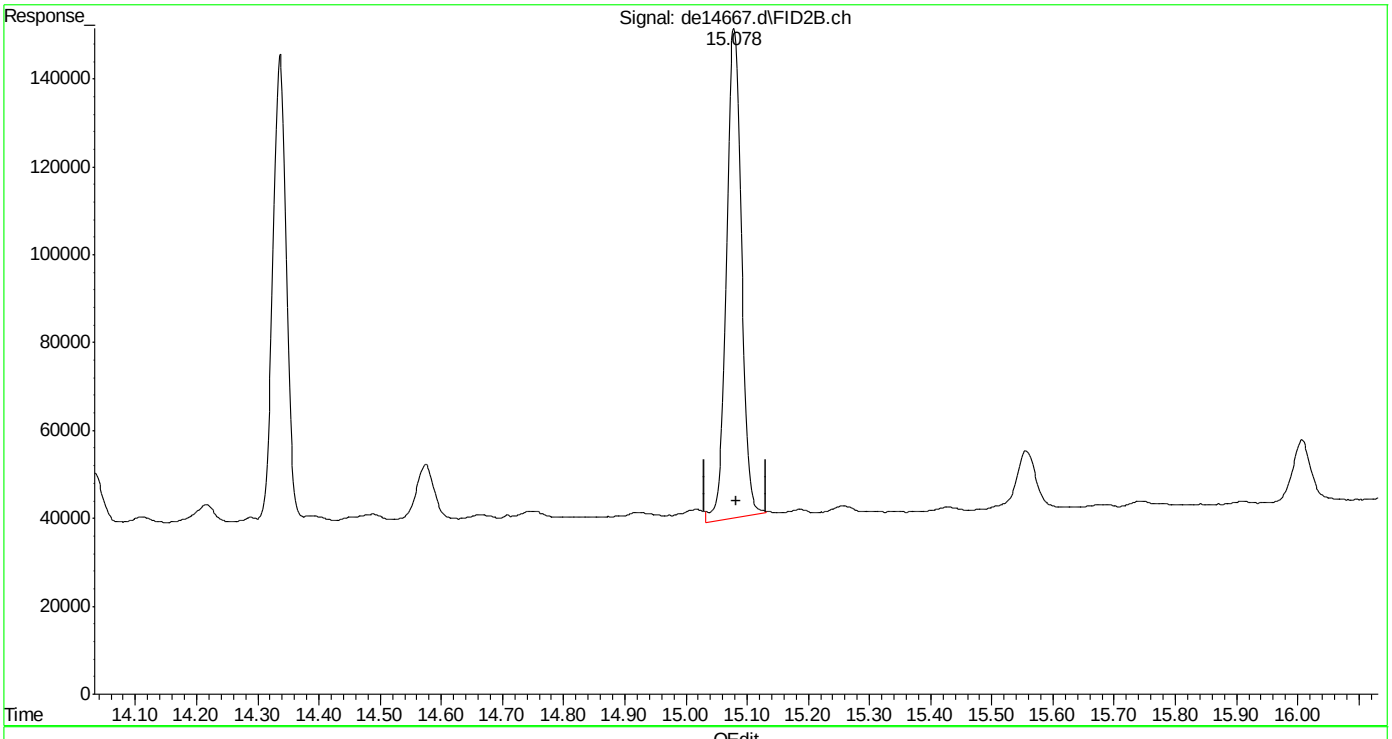
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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)
15.082min 2.413 µg/ml
response 190915

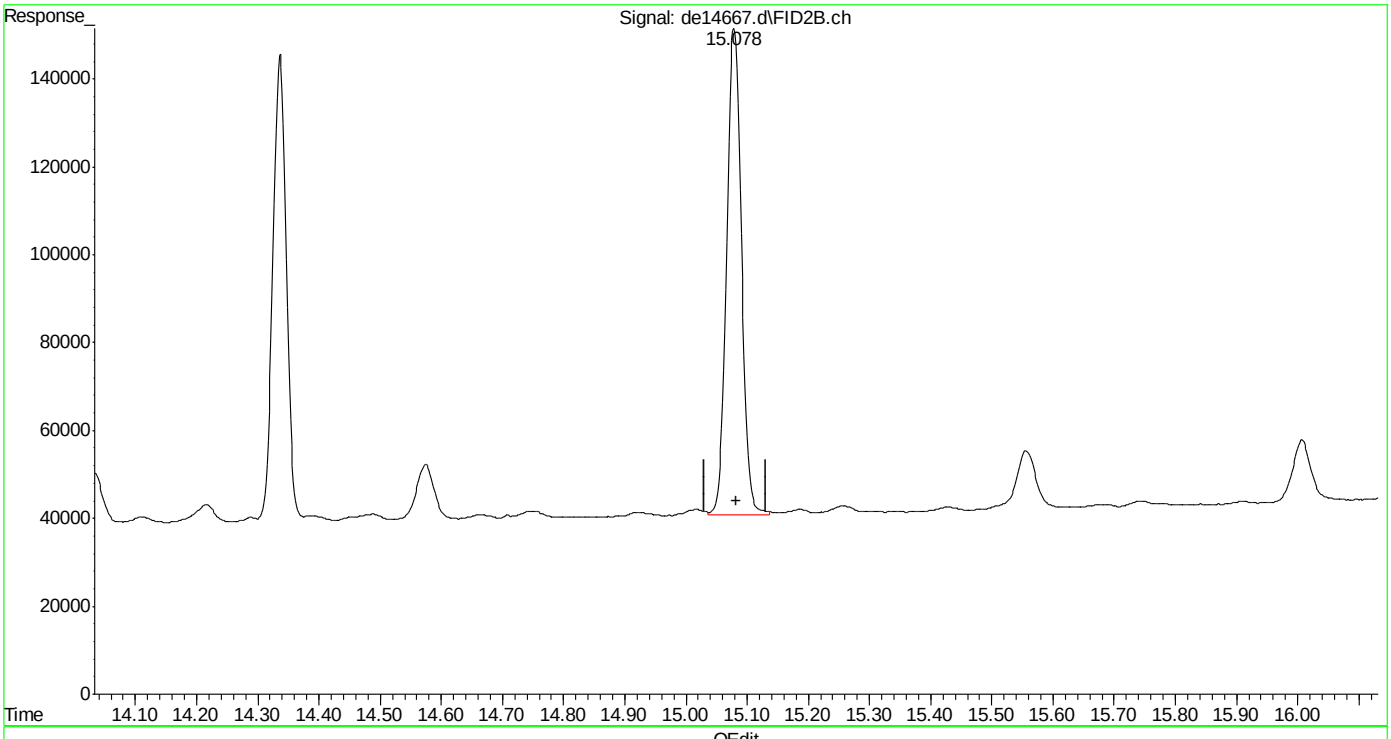
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : cc815-2
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:50:25 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:50:15 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)
15.082min 2.369 µg/ml m
response 187403

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:51:33 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : ic815-5 (Sig #1); cc815-5 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:53:48 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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	6.487	577215	5.672 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 28.36%#		
6) s 2-bromonaphthalene	7.207	337863	5.188 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 25.94%		
11) s o-terphenyl	9.743	657004	5.608 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 28.04%#		
35) s 1-chlorooctadecane	11.213	332474	5.506 µg/ml
Spiked Amount 20.000 Range 8 - 28	Recovery = 27.53%		
Target Compounds			
2) naphthalene	5.032	613912	5.441 µg/ml
3) 2-methylnaphthalene	5.932	647160	5.767 µg/ml
5) acenaphthylene	7.038	631728	5.609 µg/ml
7) acenaphthene	7.280	690779	5.650 µg/ml
8) fluorene	7.922	642877	5.655 µg/ml
9) phenanthrene	9.098	606352	5.439 µg/ml
10) anthracene	9.155	684741	5.892 µg/ml
12) fluoranthene	10.597	635011	5.600 µg/ml
13) pyrene	10.852	645412	5.571 µg/ml
14) benzo(a)anthracene	12.410	589300	5.443 µg/ml
15) chrysene	12.455	623706	5.494 µg/ml
16) benzo(B)fluoranthene	13.702	584753	5.486 µg/mlm
17) benzo(k)fluoranthene	13.728f	612352	5.358 µg/ml
18) benzo(a)pyrene	14.035	570345	5.397 µg/ml
19) indeno(1,2,3-cd)pyrene	15.168	547262	5.232 µg/mlm
20) dibenzo(ah)anthracene	15.215	564801	5.475 µg/ml
21) benzo(ghi)perylene	15.388f	541223	5.273 µg/ml
25) h c-9	2.647	436956	5.261 µg/mlm
26) h c-10	3.800	446232	5.321 µg/ml
27) naphthalene #2	5.475	462504	5.433 µg/ml
28) c-12	5.655	432854	5.230 µg/ml
29) 2-methylnaphthalene #2	6.368	462342	5.483 µg/ml
30) c-14	7.172	433815	5.226 µg/ml
31) c-16	8.500	435918	5.199 µg/ml
32) c-18	9.693	428513	5.216 µg/ml
33) c-19	10.248	421112	5.143 µg/ml
34) c-20	10.780	414796	5.276 µg/ml
36) c-22	11.775	410716	5.245 µg/ml
37) c-24	12.693	382937	5.099 µg/ml
38) c-26	13.543	406080	5.213 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : ic815-5 (Sig #1); cc815-5 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:53:48 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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	14.337	391589	5.279 µg/ml
40) h	c-30	15.082	408558	4.936 µg/ml
41) h	c-36	16.983	339764	5.127 µg/mlm

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

9.4.3

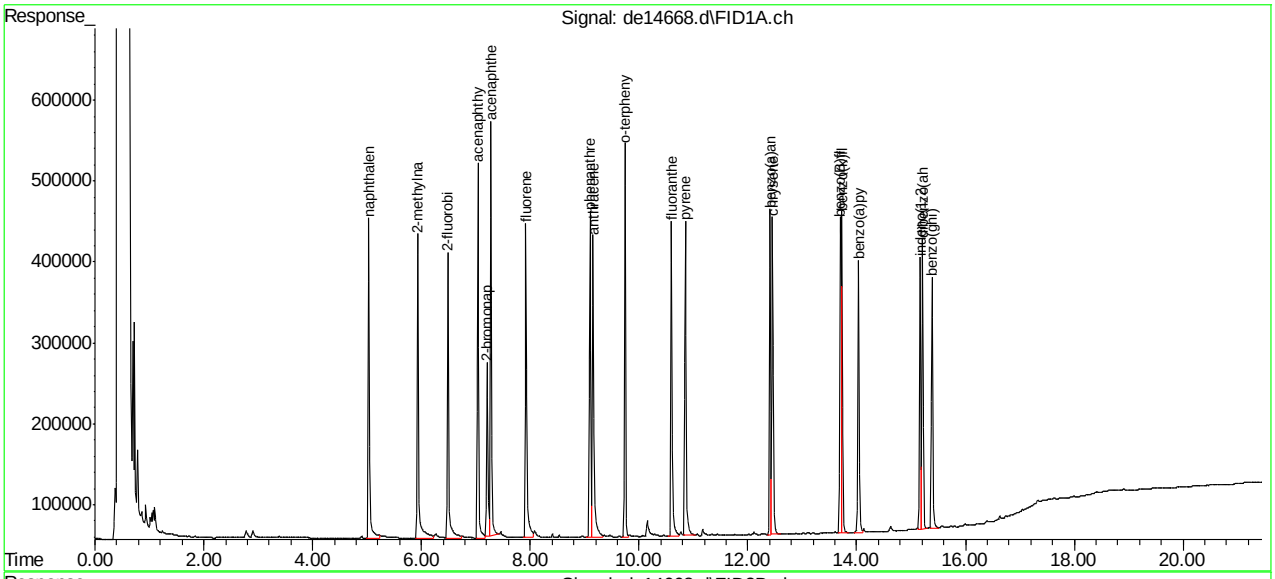
9

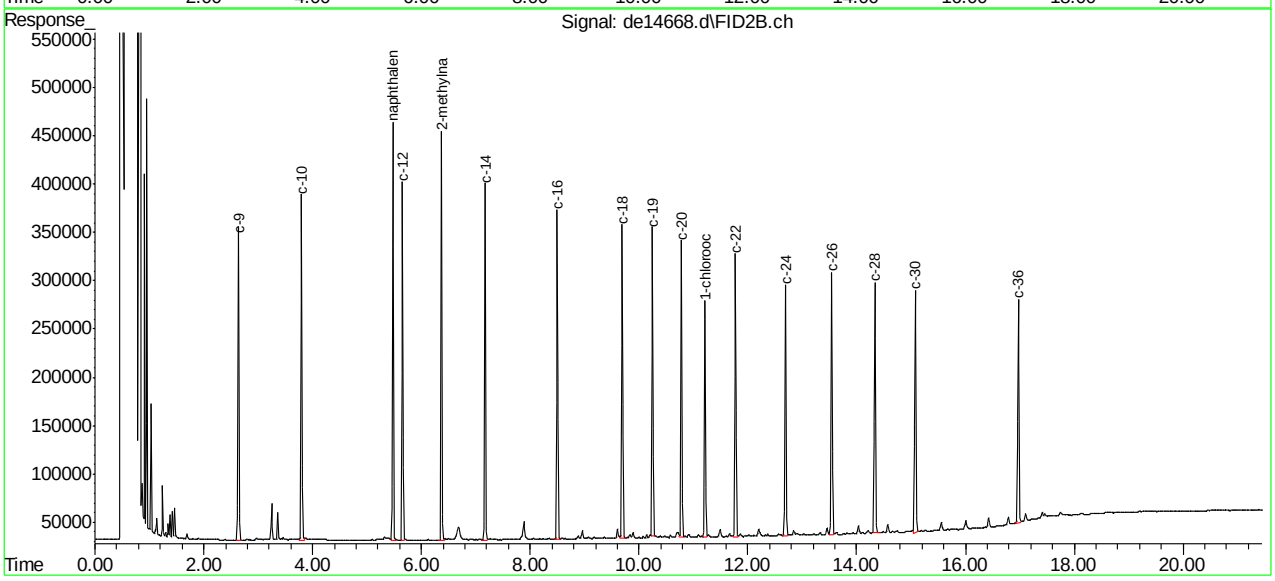
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : ic815-5 (Sig #1); cc815-5 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:53:48 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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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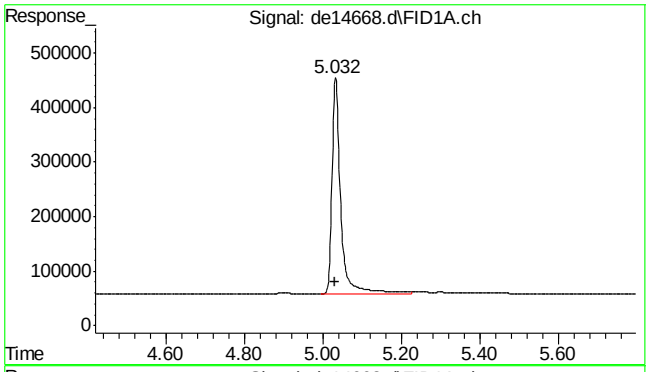
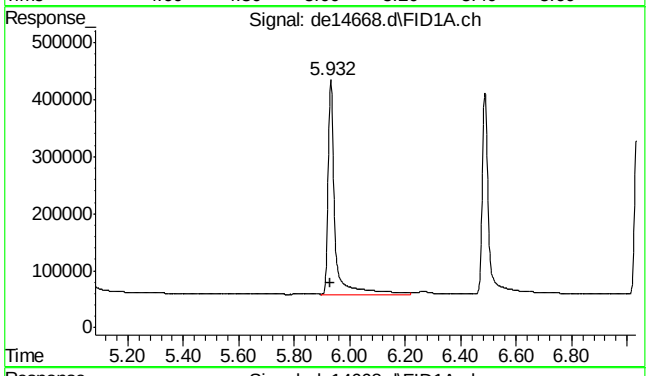


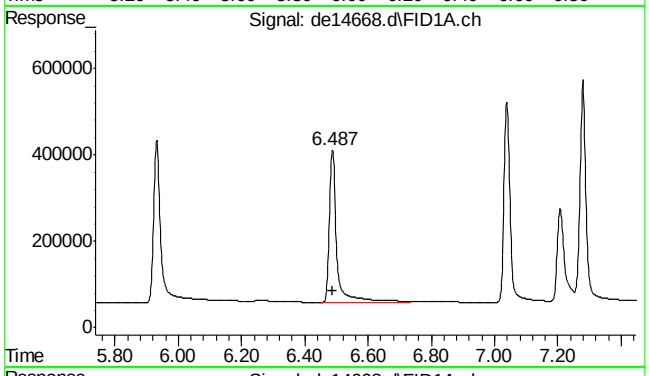
#2 naphthalene

R.T.: 5.032 min
Delta R.T.: 0.002 min
Response: 613912
Conc: 5.44 µg/ml



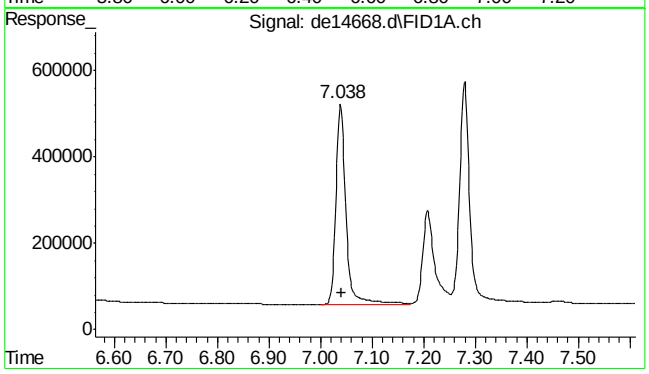
#3 2-methylnaphthalene

R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 647160
Conc: 5.77 µg/ml



#4 2-fluorobiphenyl

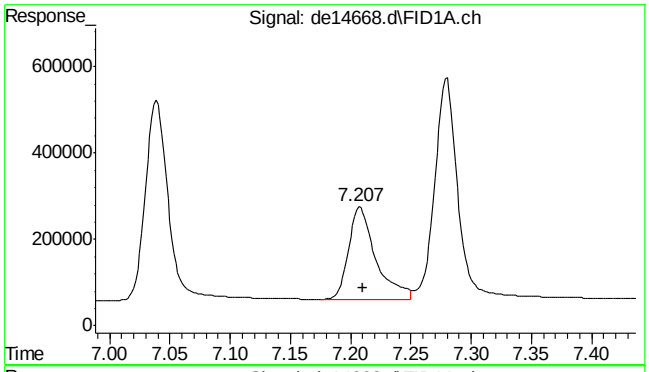
R.T.: 6.487 min
Delta R.T.: -0.002 min
Response: 577215
Conc: 5.67 µg/ml



#5 acenaphthylene

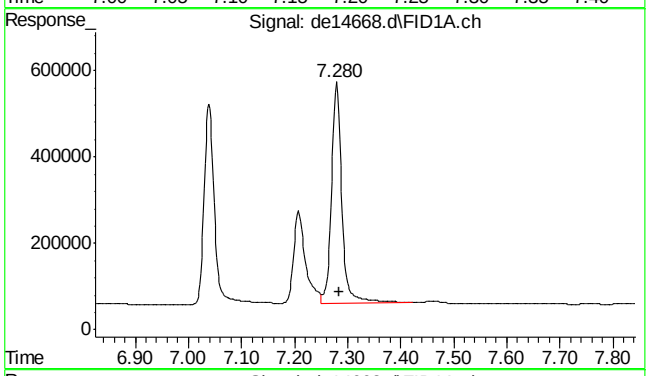
R.T.: 7.038 min
Delta R.T.: -0.003 min
Response: 631728
Conc: 5.61 µg/ml

SGS ACCUTEST MC46423



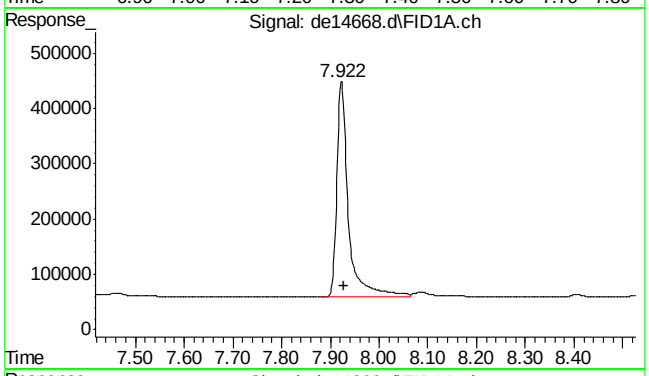
#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 337863
Conc: 5.19 µg/ml



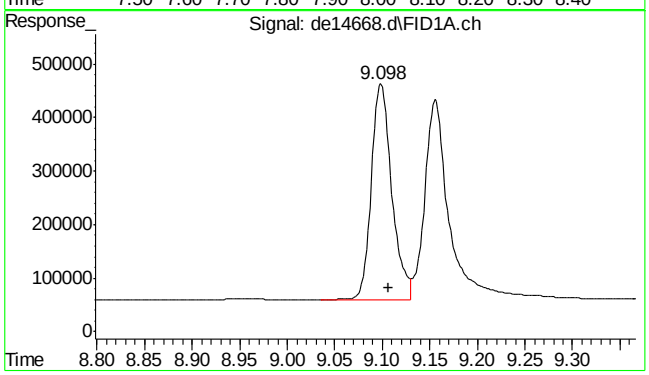
#7 acenaphthene

R.T.: 7.280 min
Delta R.T.: -0.005 min
Response: 690779
Conc: 5.65 µg/ml



#8 fluorene

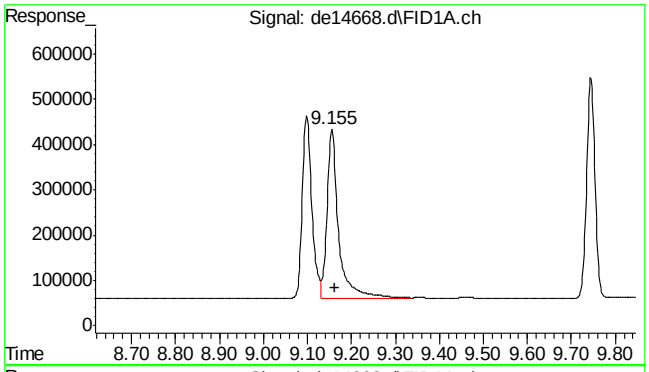
R.T.: 7.922 min
Delta R.T.: -0.007 min
Response: 642877
Conc: 5.66 µg/ml



#9 phenanthrene

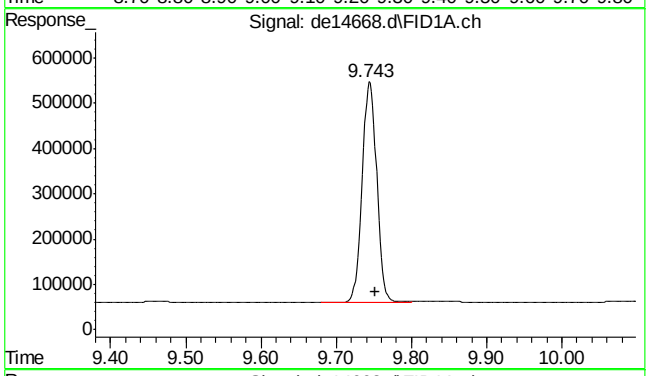
R.T.: 9.098 min
Delta R.T.: -0.008 min
Response: 606352
Conc: 5.44 µg/ml

SGS ACCUTEST MC46423



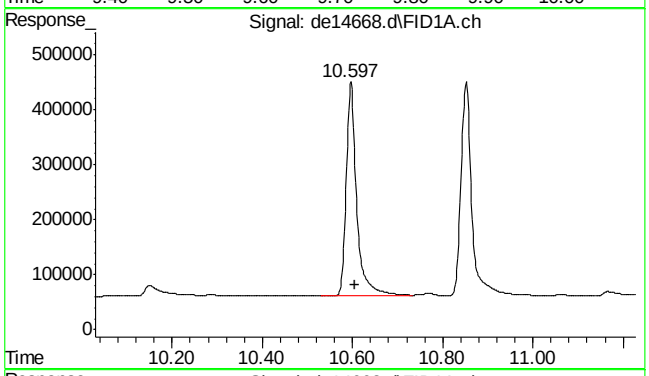
#10 anthracene

R.T.: 9.155 min
Delta R.T.: -0.008 min
Response: 684741
Conc: 5.89 µg/ml



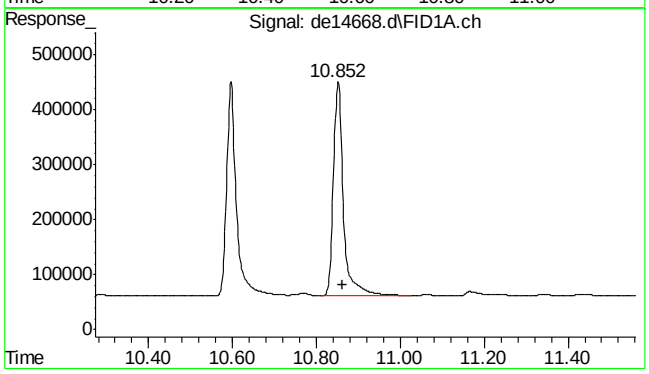
#11 o-terphenyl

R.T.: 9.743 min
Delta R.T.: -0.008 min
Response: 657004
Conc: 5.61 µg/ml



#12 fluoranthene

R.T.: 10.597 min
Delta R.T.: -0.008 min
Response: 635011
Conc: 5.60 µg/ml



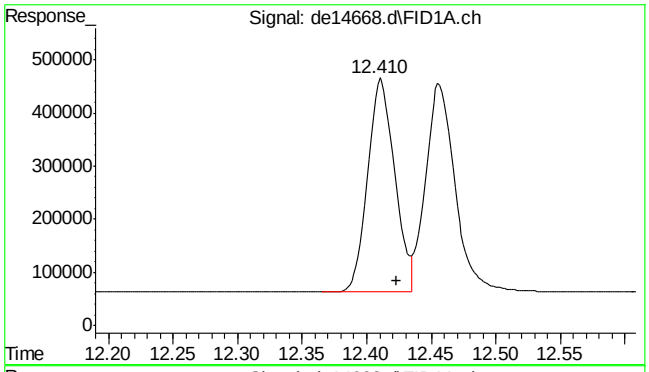
#13 pyrene

R.T.: 10.852 min
Delta R.T.: -0.010 min
Response: 645412
Conc: 5.57 µg/ml

9.4.3

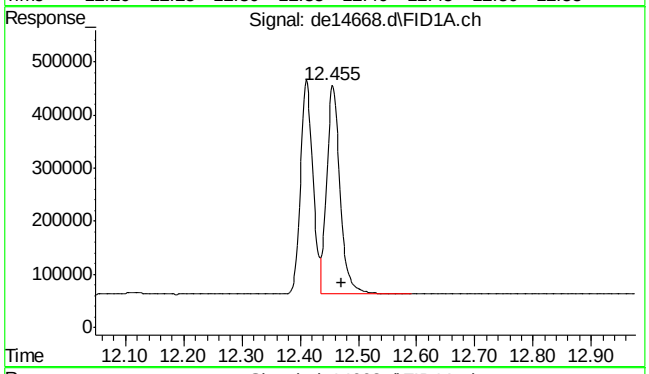
9

SGS ACCUTEST MC46423



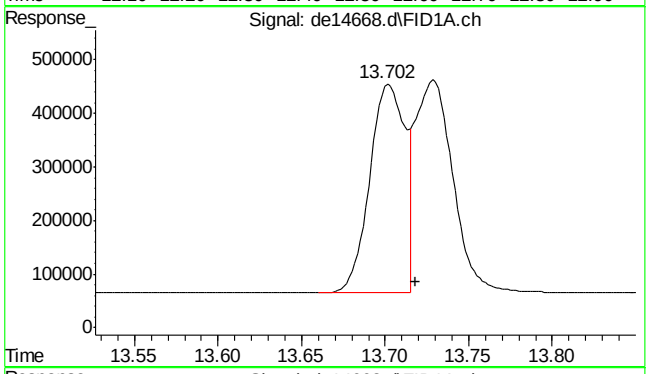
#14 benzo(a)anthracene

R.T.: 12.410 min
Delta R.T.: -0.013 min
Response: 589300
Conc: 5.44 µg/ml



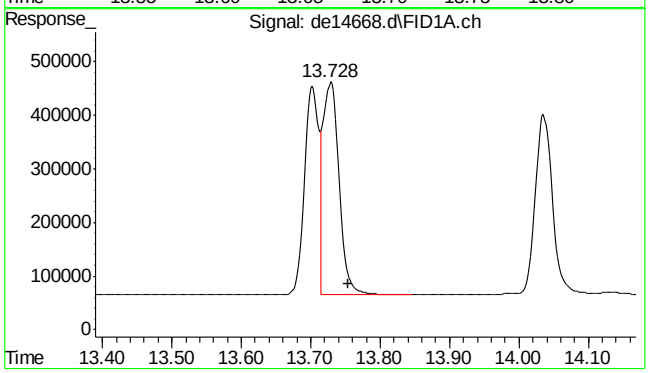
#15 chrysene

R.T.: 12.455 min
Delta R.T.: -0.017 min
Response: 623706
Conc: 5.49 µg/ml



#16 benzo(B)fluoranthene

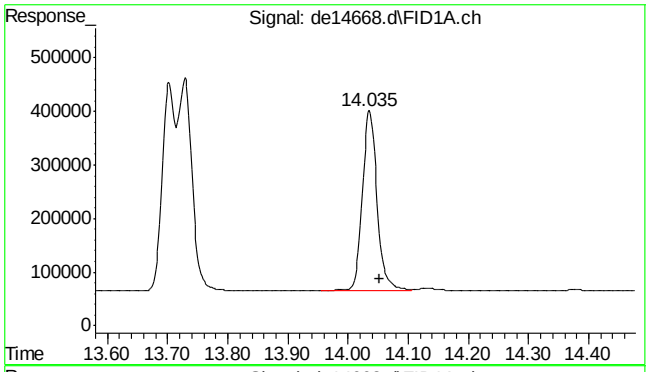
R.T.: 13.702 min
Delta R.T.: -0.017 min
Response: 584753
Conc: 5.49 µg/ml m



#17 benzo(k)fluoranthene

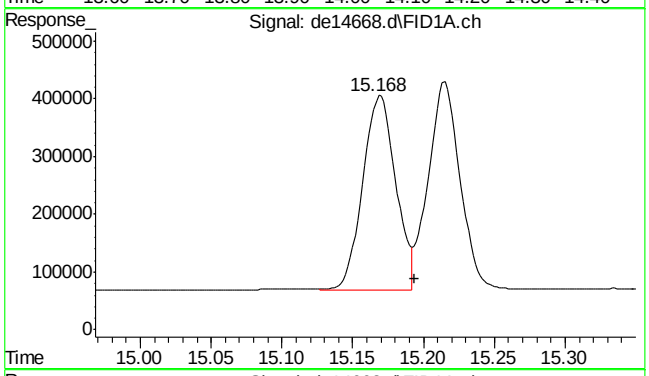
R.T.: 13.728 min
Delta R.T.: -0.025 min
Response: 612352
Conc: 5.36 µg/ml

SGS ACCUTEST MC46423



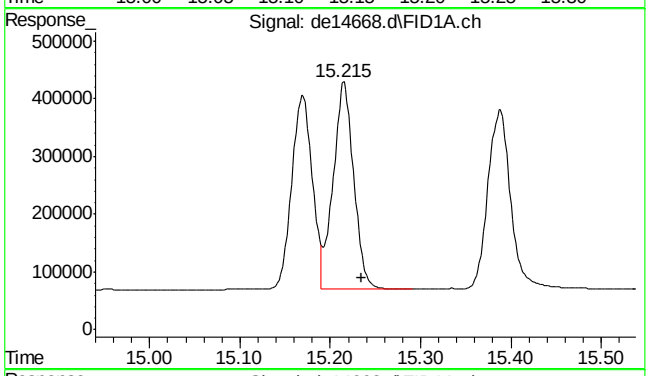
#18 benzo(a)pyrene

R.T.: 14.035 min
Delta R.T.: -0.018 min
Response: 570345
Conc: 5.40 µg/ml



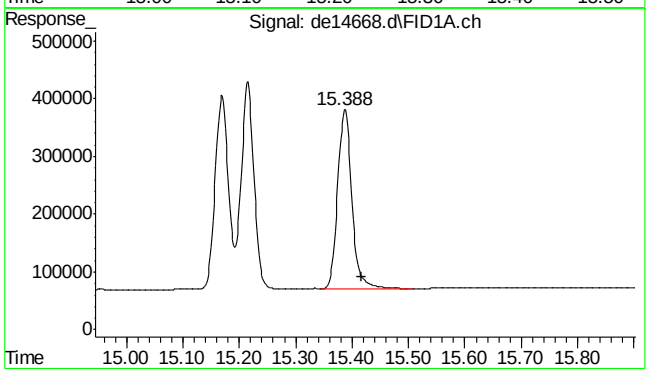
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.168 min
Delta R.T.: -0.025 min
Response: 547262
Conc: 5.23 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.215 min
Delta R.T.: -0.020 min
Response: 564801
Conc: 5.48 µg/ml



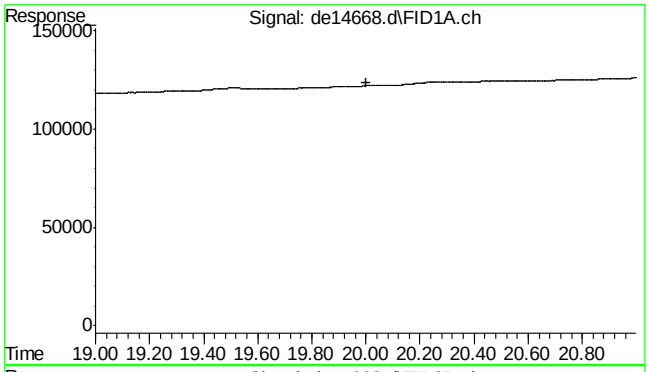
#21 benzo(ghi)perylene

R.T.: 15.388 min
Delta R.T.: -0.028 min
Response: 541223
Conc: 5.27 µg/ml

9.4.3

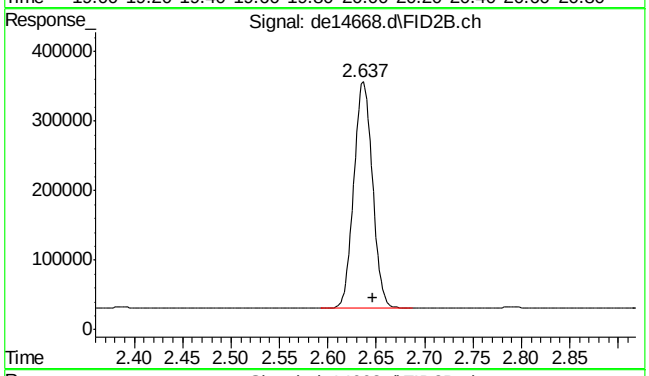
9

SGS ACCUTEST MC46423



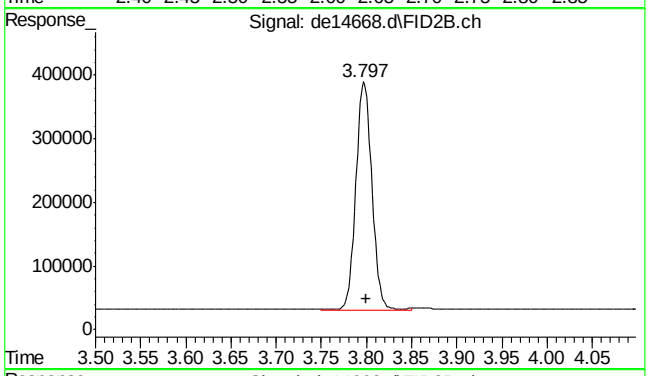
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



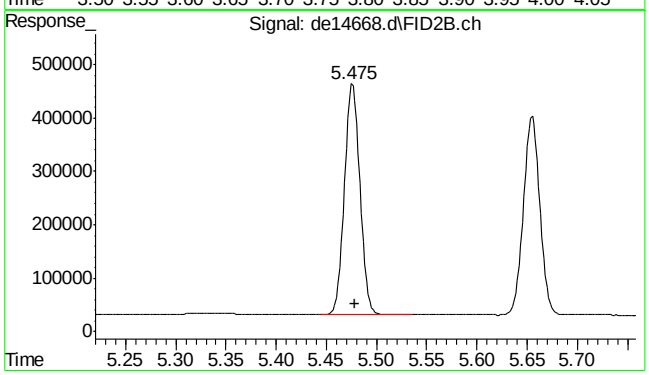
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 436956
Conc: 5.26 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 446232
Conc: 5.32 µg/ml



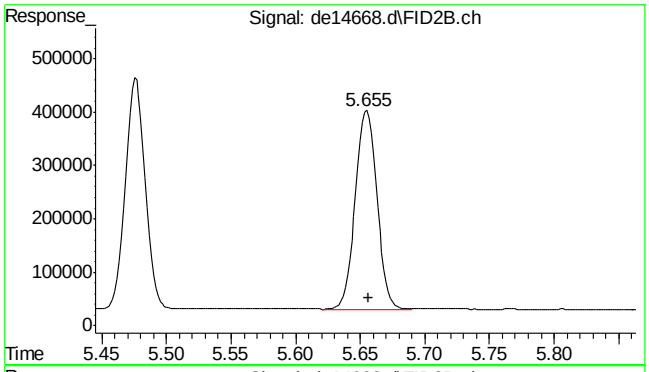
#27 naphthalene #2

R.T.: 5.475 min
Delta R.T.: -0.003 min
Response: 462504
Conc: 5.43 µg/ml

9.4.3

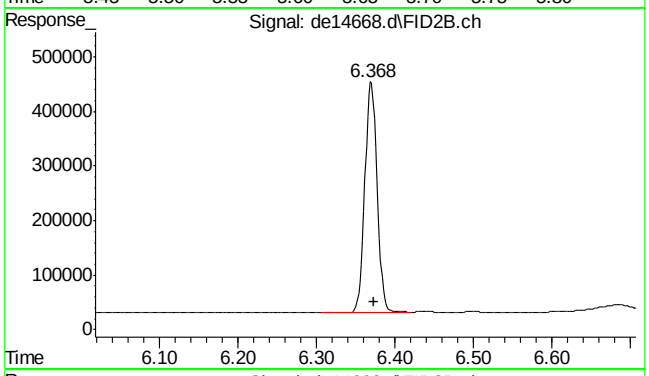
9

SGS ACCUTEST MC46423



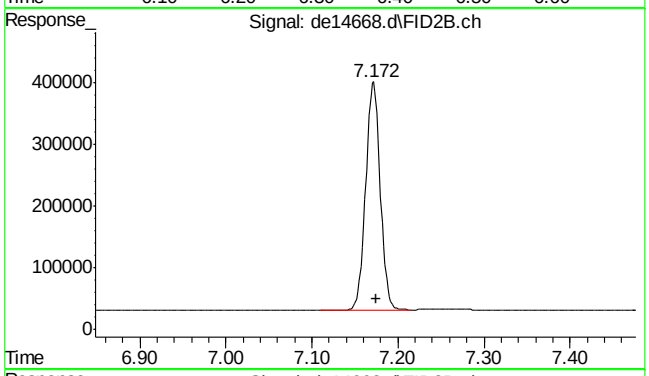
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 432854
Conc: 5.23 µg/ml



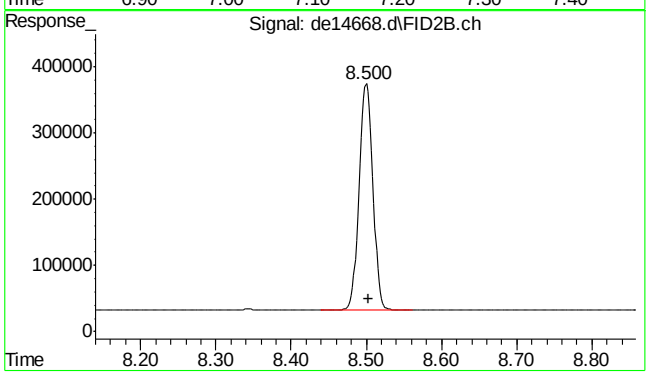
#29 2-methylnaphthalene #2

R.T.: 6.368 min
Delta R.T.: -0.005 min
Response: 462342
Conc: 5.48 µg/ml



#30 c-14

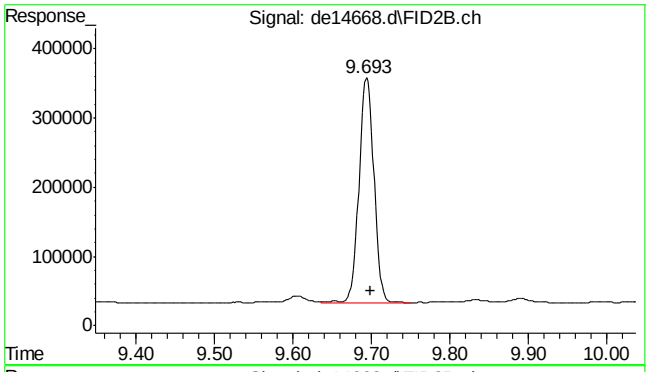
R.T.: 7.172 min
Delta R.T.: -0.003 min
Response: 433815
Conc: 5.23 µg/ml



#31 c-16

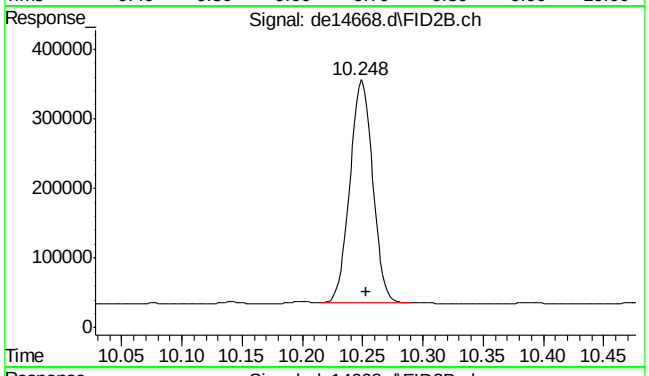
R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 435918
Conc: 5.20 µg/ml

SGS ACCUTEST MC46423



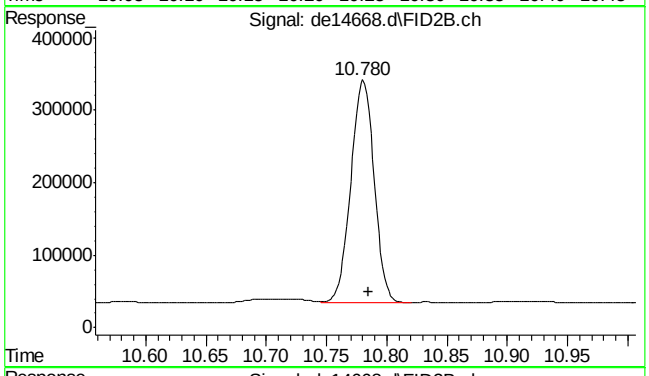
#32 c-18

R.T.: 9.693 min
Delta R.T.: -0.005 min
Response: 428513
Conc: 5.22 µg/ml



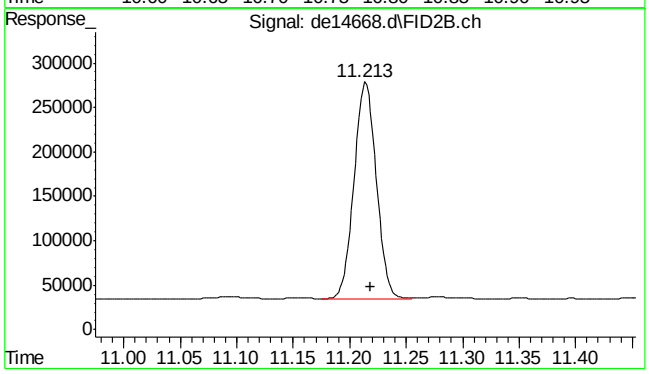
#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.005 min
Response: 421112
Conc: 5.14 µg/ml



#34 c-20

R.T.: 10.780 min
Delta R.T.: -0.005 min
Response: 414796
Conc: 5.28 µg/ml



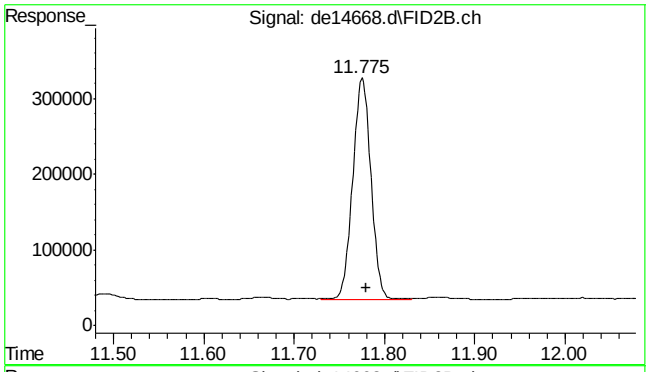
#35 1-chlorooctadecane

R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 332474
Conc: 5.51 µg/ml

9.4.3

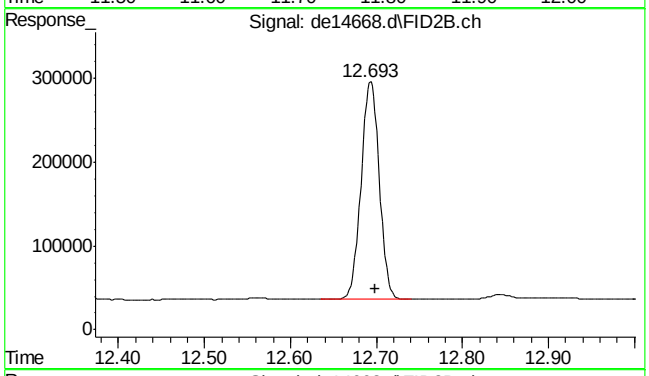
9

SGS ACCUTEST MC46423



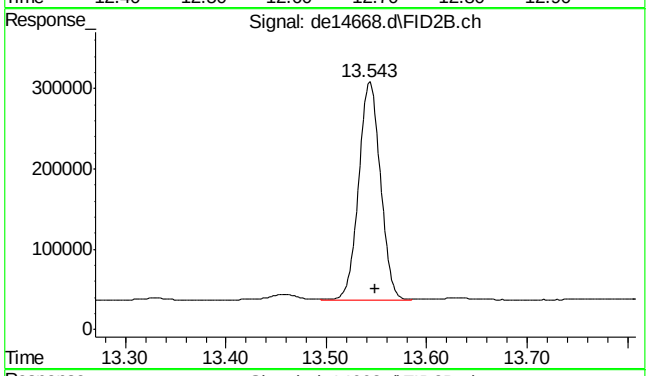
#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 410716
Conc: 5.25 µg/ml



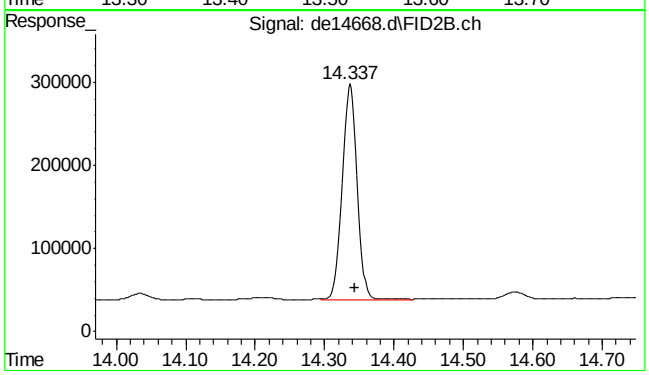
#37 c-24

R.T.: 12.693 min
Delta R.T.: -0.005 min
Response: 382937
Conc: 5.10 µg/ml



#38 c-26

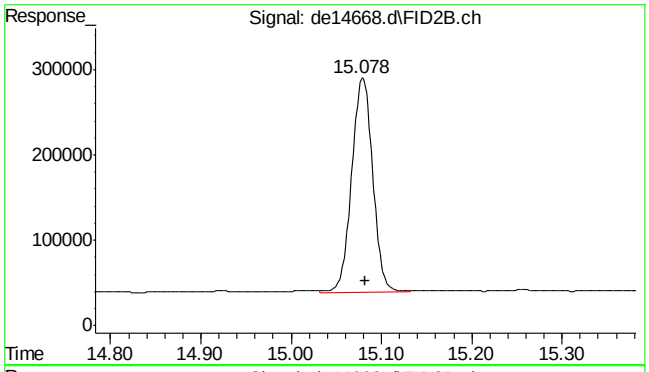
R.T.: 13.543 min
Delta R.T.: -0.005 min
Response: 406080
Conc: 5.21 µg/ml



#39 c-28

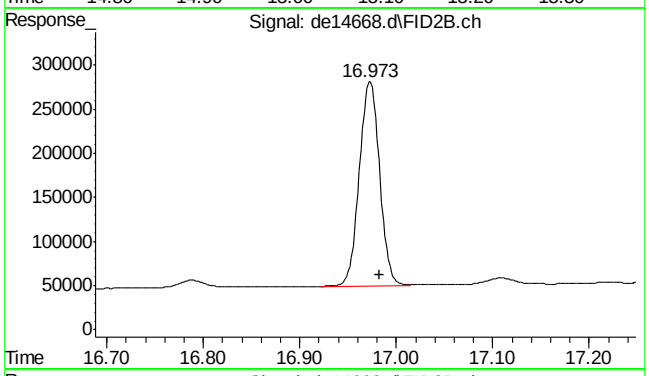
R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 391589
Conc: 5.28 µg/ml

SGS ACCUTEST MC46423



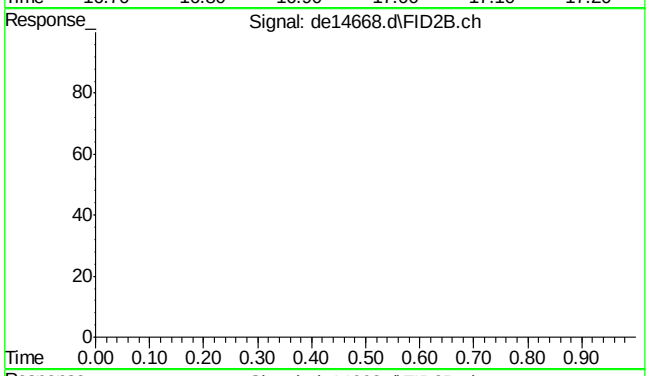
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 408558
Conc: 4.94 µg/ml



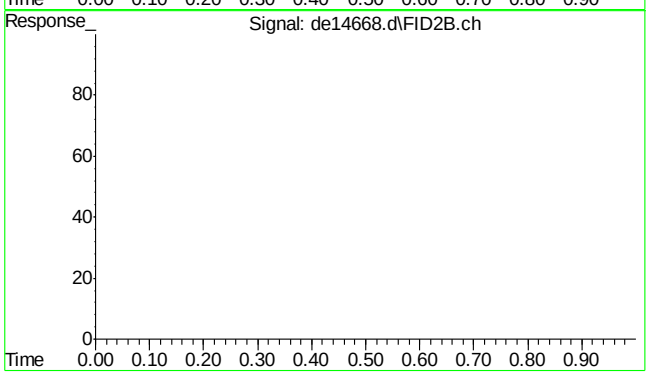
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 339764
Conc: 5.13 µg/ml m



#42 bht

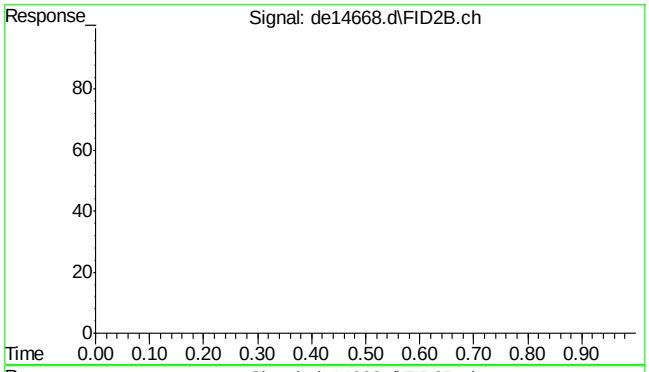
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

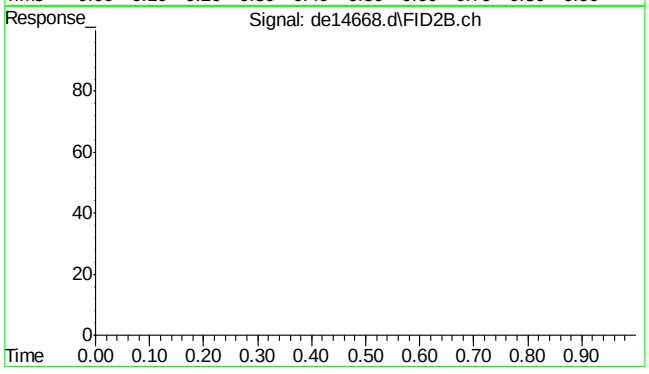
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#44 bht

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



#45 bht

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

9.4.3

9

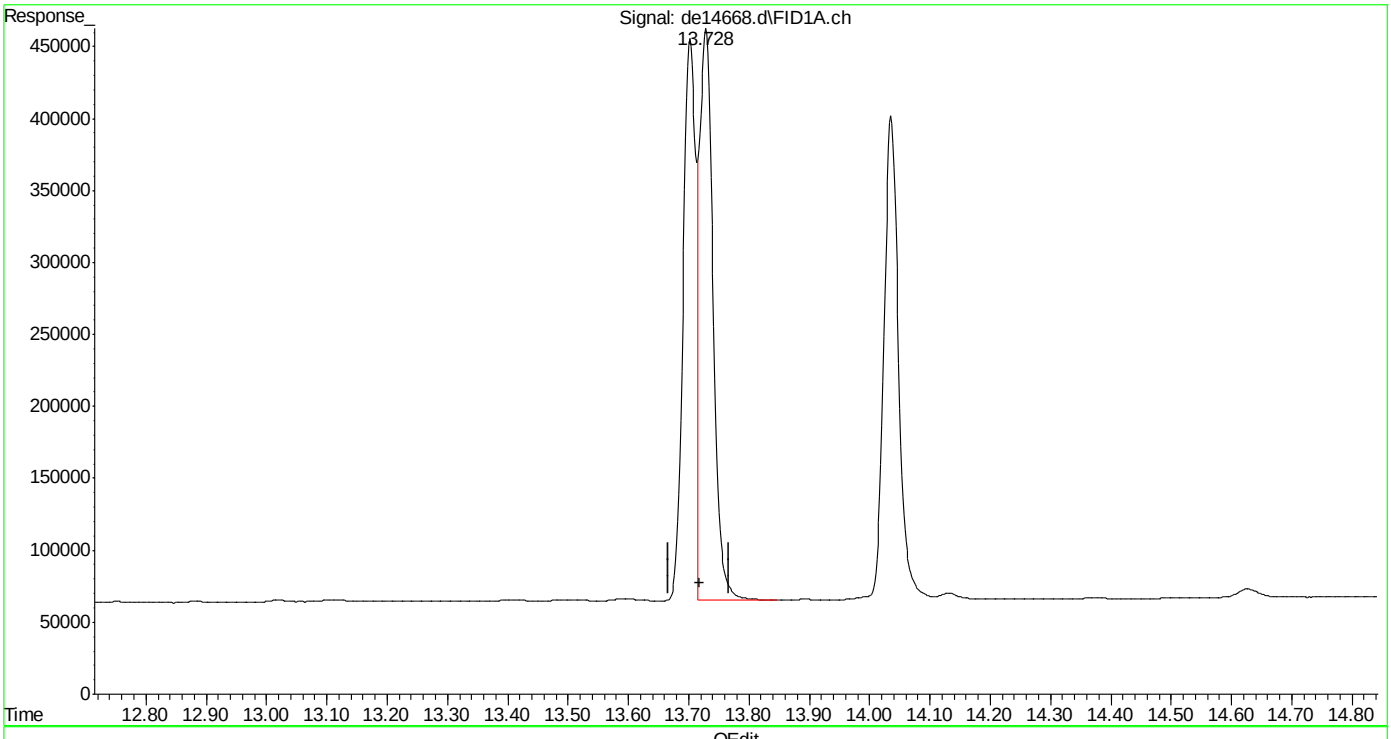
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : cc815-5
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:52:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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
13.728min 5.745 µg/ml
response 612352

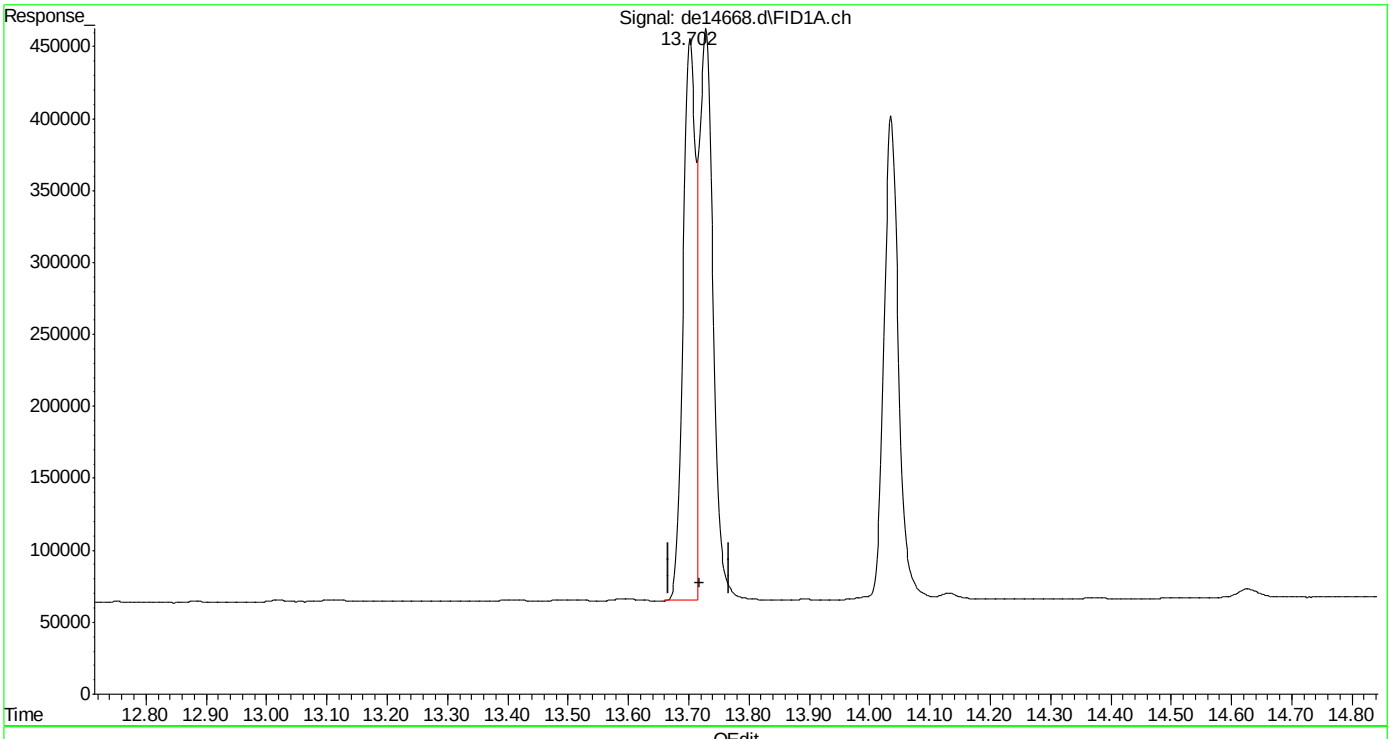
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:52:59 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : cc815-5
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:52:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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
13.702min 5.486 µg/ml m
response 584753

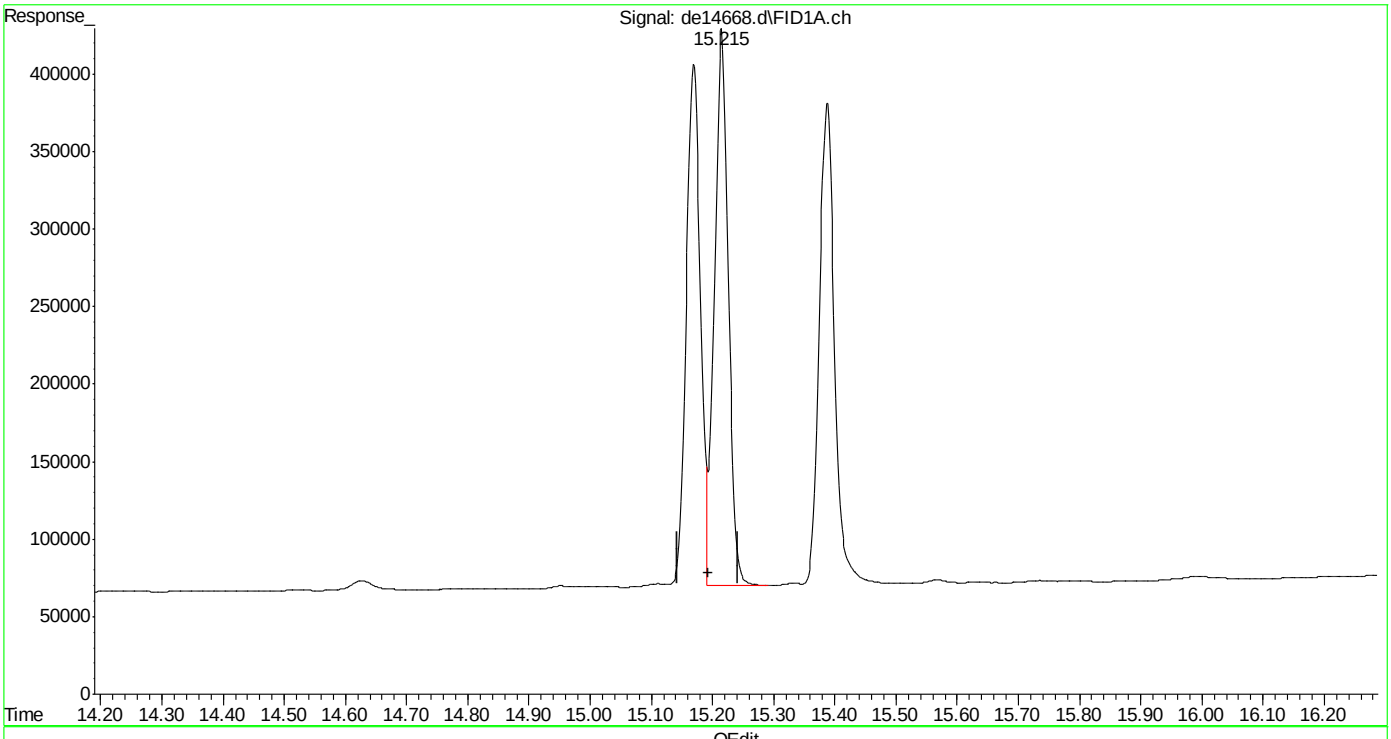
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:53:13 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : cc815-5
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:52:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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
15.215min 5.400 µg/ml
response 564801

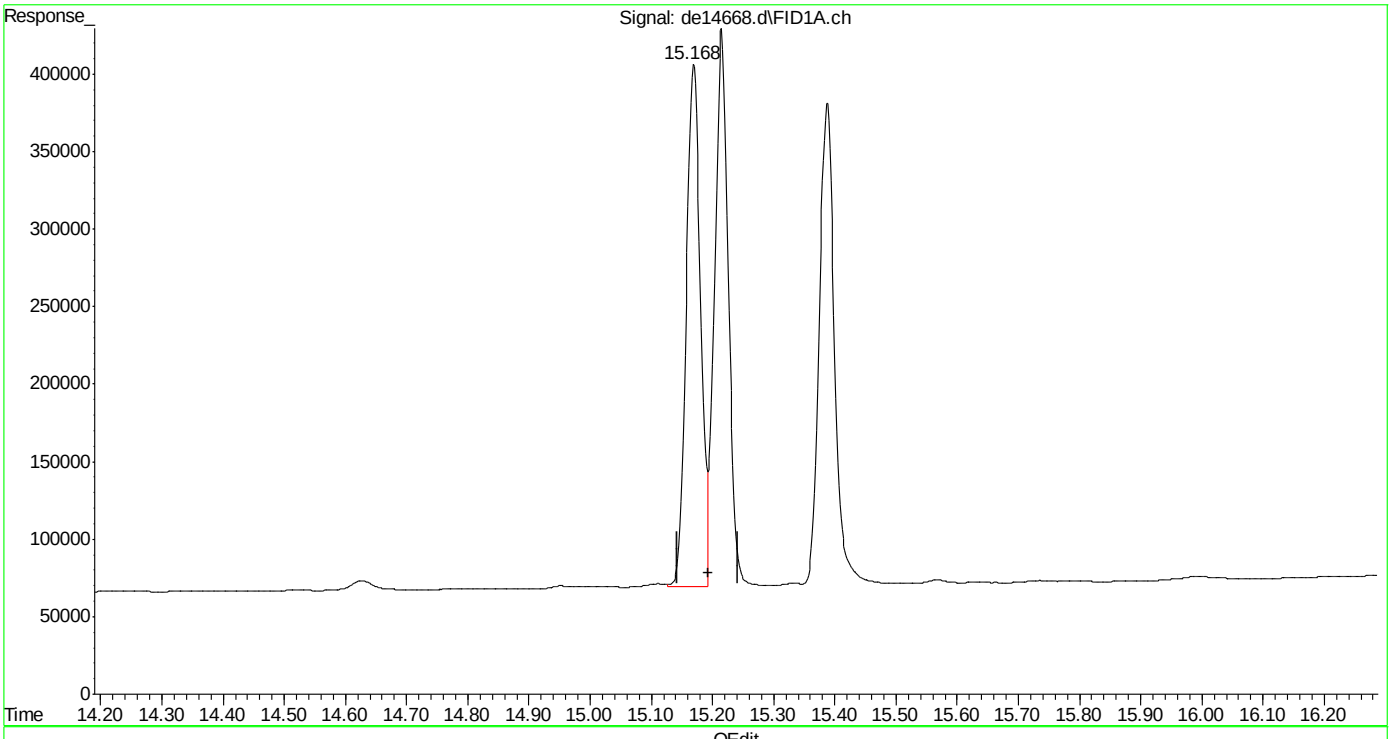
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:53:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14668.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:12 pm
Operator : thomasa
Sample : cc815-5
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 106 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:52:47 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:51:49 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
15.168min 5.232 µg/ml m
response 547262

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:53:25 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : ic815-20 (Sig #1); cc815-20 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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	6.485	2470175	23.541 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 117.71%#	
6) s 2-bromonaphthalene	7.207	1622495	24.701 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 123.51%#	
11) s o-terphenyl	9.745	2756185	22.744 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 113.72%#	
35) s 1-chlorooctadecane	11.215	1362404	22.204 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 111.02%#	
Target Compounds			
2) naphthalene	5.028	2761210	23.921 µg/ml
3) 2-methylnaphthalene	5.928	2757665	23.797 µg/ml
5) acenaphthylene	7.038	2699454	23.271 µg/ml
7) acenaphthene	7.280	2910644	22.916 µg/ml
8) fluorene	7.923	2748574	23.430 µg/ml
9) phenanthrene	9.100	2679317	23.480 µg/ml
10) anthracene	9.157	2716250	22.315 µg/ml
12) fluoranthene	10.598	2677937	22.848 µg/ml
13) pyrene	10.852	2734764	22.820 µg/ml
14) benzo(a)anthracene	12.412	2555074	22.964 µg/ml
15) chrysene	12.460	2573974	21.927 µg/ml
16) benzo(B)fluoranthene	13.707	2466504	22.625 µg/mlm
17) benzo(k)fluoranthene	13.733	2513496	21.260 µg/mlm
18) benzo(a)pyrene	14.037	2419189	22.252 µg/ml
19) indeno(1,2,3-cd)pyrene	15.173	2411740	22.594 µg/mlm
20) dibenzo(ah)anthracene	15.218	2357845	22.253 µg/mlm
21) benzo(ghi)perylene	15.392	2338304	22.300 µg/ml
25) h c-9	2.647	1780249	21.212 µg/mlm
26) h c-10	3.800	1799081	21.180 µg/ml
27) naphthalene #2	5.477	1908539	22.158 µg/ml
28) c-12	5.655	1778842	21.296 µg/ml
29) 2-methylnaphthalene #2	6.370	1903208	22.324 µg/ml
30) c-14	7.172	1773611	21.174 µg/ml
31) c-16	8.502	1757632	20.796 µg/ml
32) c-18	9.695	1741774	21.020 µg/ml
33) c-19	10.252	1723593	20.929 µg/ml
34) c-20	10.782	1694193	21.314 µg/ml
36) c-22	11.777	1677797	21.219 µg/ml
37) c-24	12.693	1563000	20.728 µg/ml
38) c-26	13.545	1663159	21.171 µg/ml

SGS ACCUTEST MC46423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : ic815-20 (Sig #1); cc815-20 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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	14.338	1607781	21.434 µg/ml
40) h	c-30	15.082	1615388	19.568 µg/ml
41) h	c-36	16.983	1450363	21.774 µg/mlm

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

9.4.4

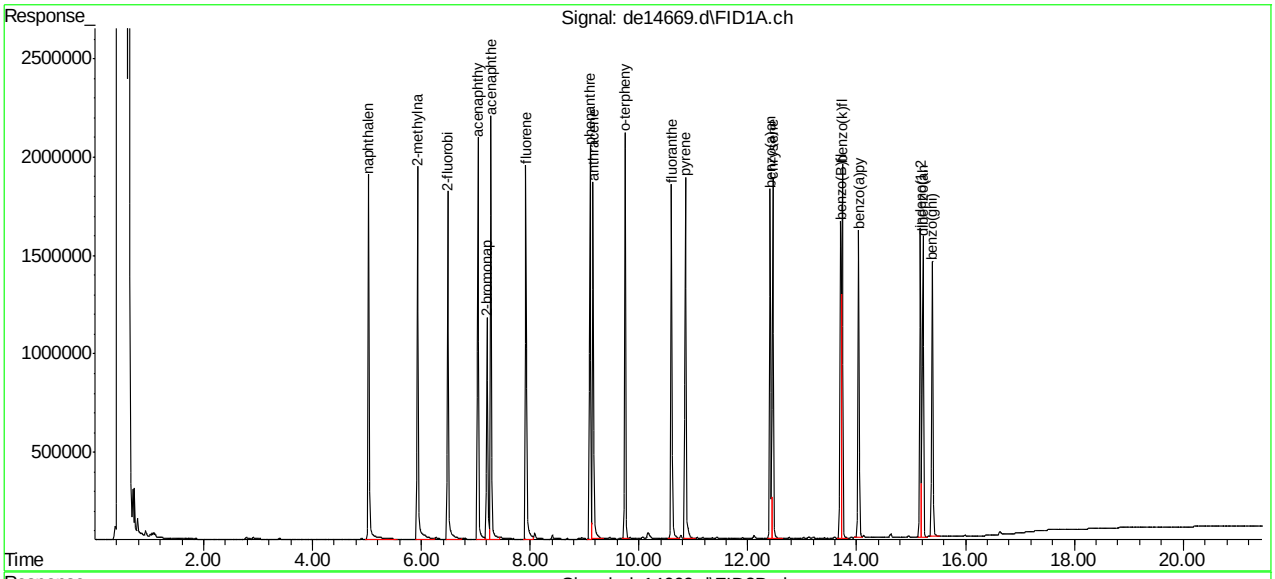
9

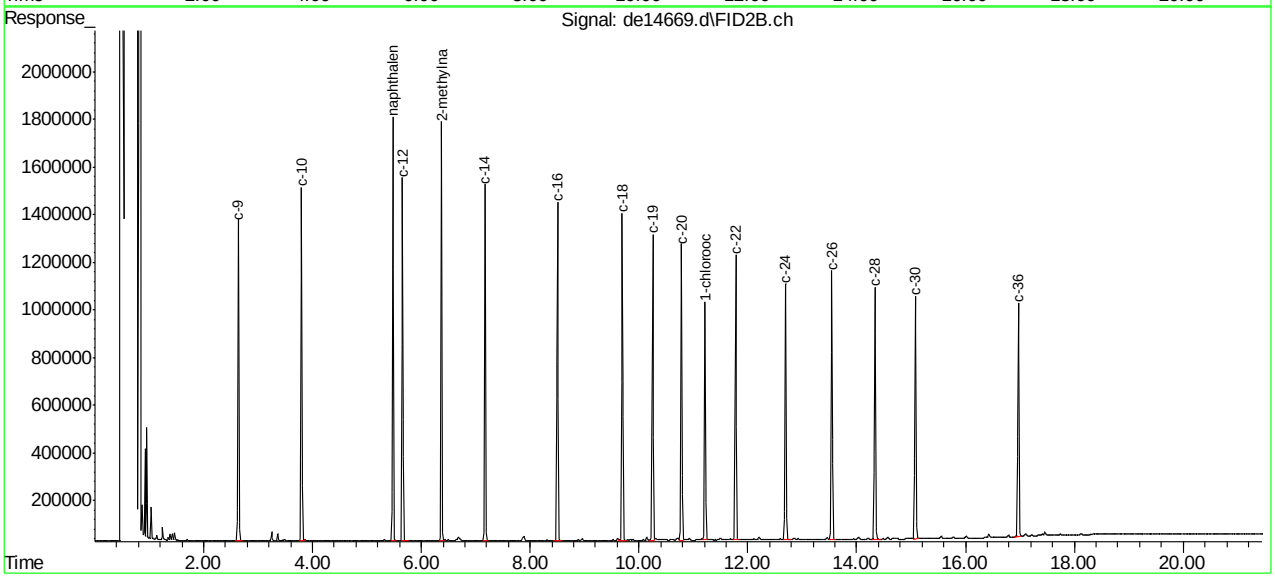
Quantitation Report (QT Reviewed)

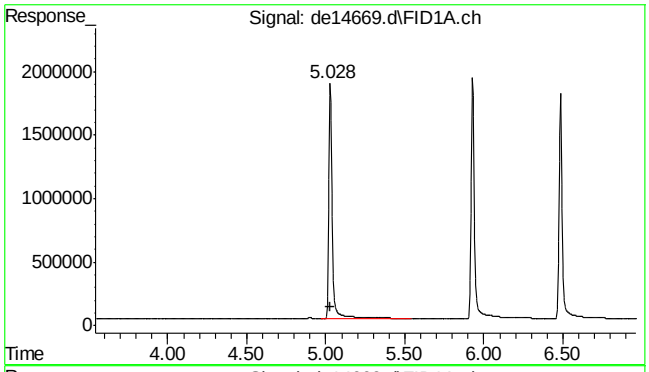
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : ic815-20 (Sig #1); cc815-20 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:12 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 2016
Response via : Initial Calibration
Integrator: RTE

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

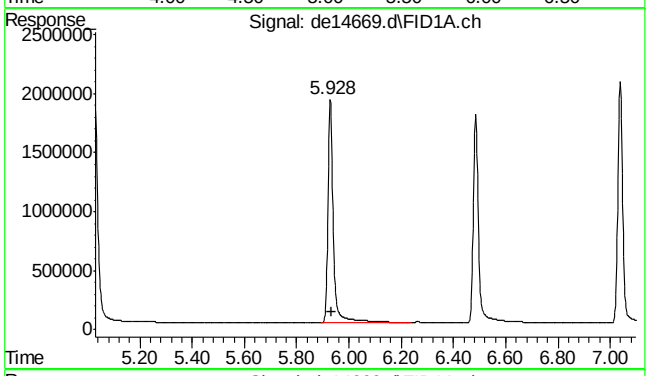






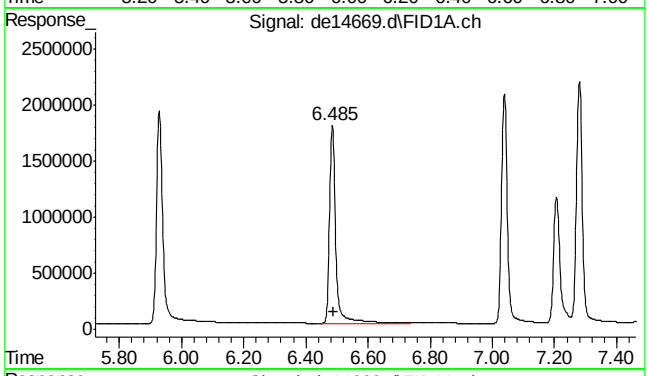
#2 naphthalene

R.T.: 5.028 min
Delta R.T.: -0.002 min
Response: 2761210
Conc: 23.92 µg/ml



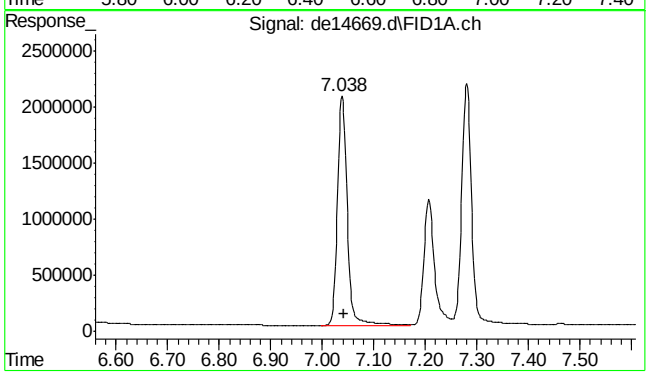
#3 2-methylnaphthalene

R.T.: 5.928 min
Delta R.T.: -0.003 min
Response: 2757665
Conc: 23.80 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.485 min
Delta R.T.: -0.003 min
Response: 2470175
Conc: 23.54 µg/ml



#5 acenaphthylene

R.T.: 7.038 min
Delta R.T.: -0.003 min
Response: 2699454
Conc: 23.27 µg/ml

9.4.4

9

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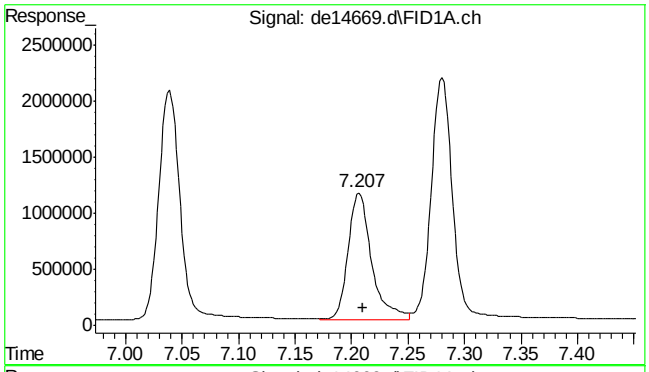
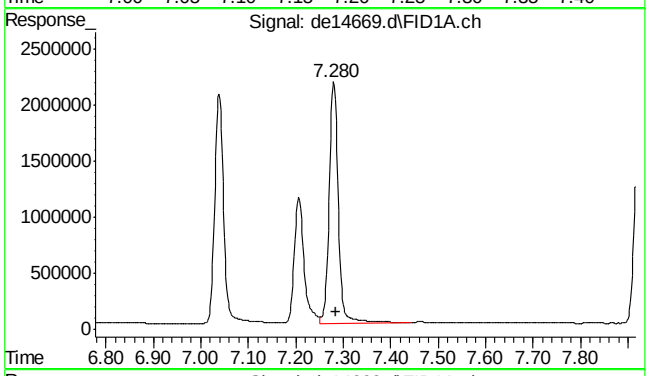


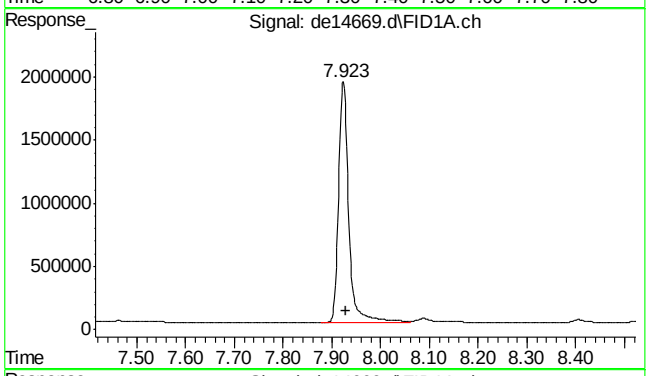
#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1622495
Conc: 24.70 µg/ml



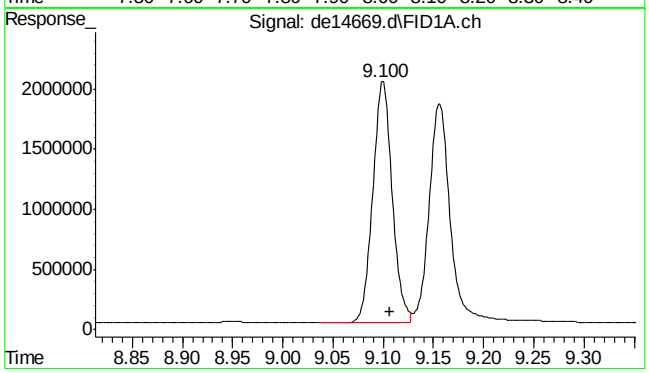
#7 acenaphthene

R.T.: 7.280 min
Delta R.T.: -0.005 min
Response: 2910644
Conc: 22.92 µg/ml



#8 fluorene

R.T.: 7.923 min
Delta R.T.: -0.005 min
Response: 2748574
Conc: 23.43 µg/ml



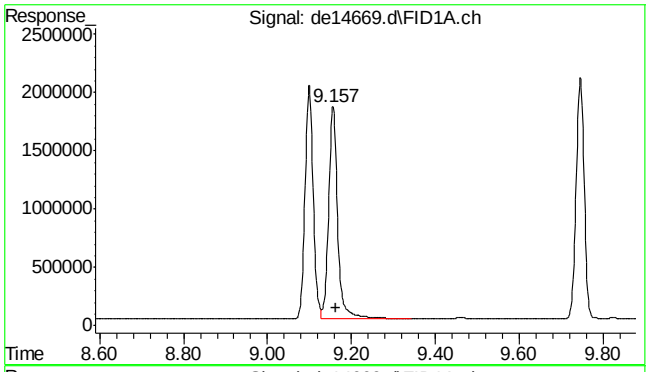
#9 phenanthrene

R.T.: 9.100 min
Delta R.T.: -0.007 min
Response: 2679317
Conc: 23.48 µg/ml

9.4.4

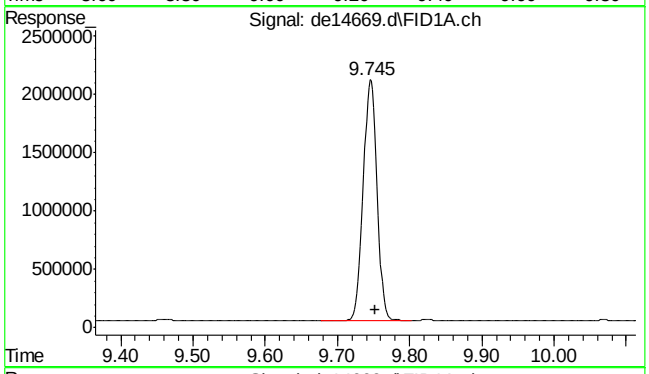
9

SGS ACCUTEST MC46423



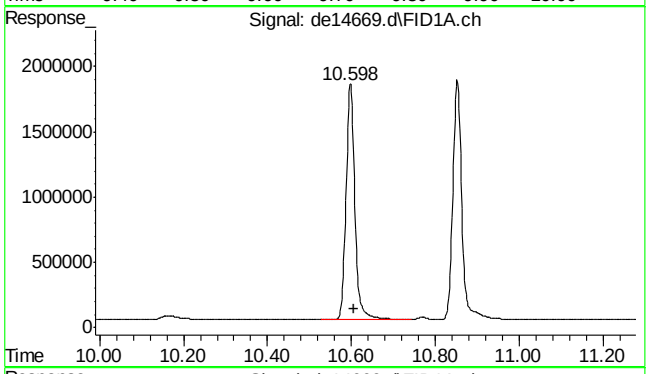
#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 2716250
Conc: 22.31 µg/ml



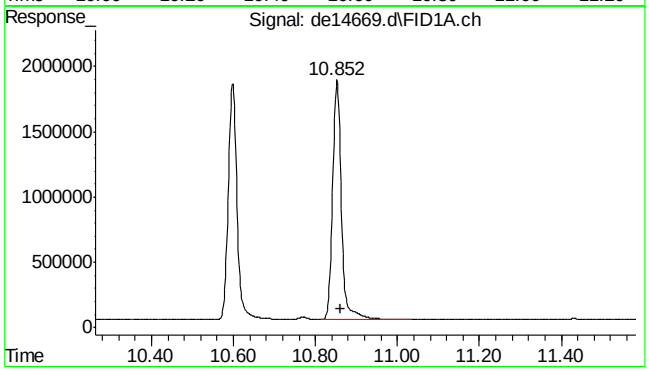
#11 o-terphenyl

R.T.: 9.745 min
Delta R.T.: -0.007 min
Response: 2756185
Conc: 22.74 µg/ml



#12 fluoranthene

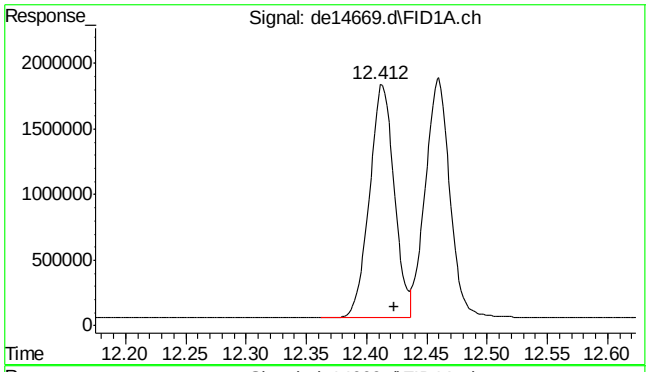
R.T.: 10.598 min
Delta R.T.: -0.007 min
Response: 2677937
Conc: 22.85 µg/ml



#13 pyrene

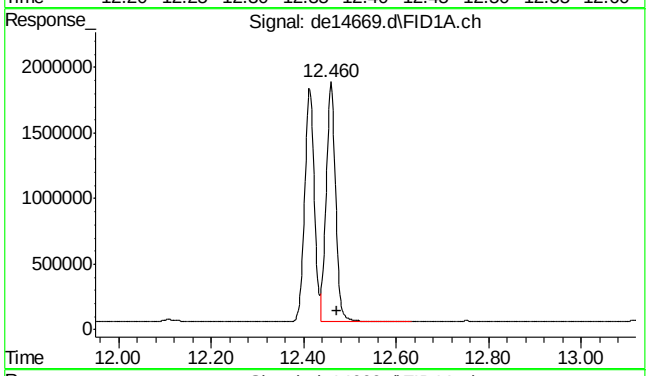
R.T.: 10.852 min
Delta R.T.: -0.010 min
Response: 2734764
Conc: 22.82 µg/ml

SGS ACCUTEST MC46423



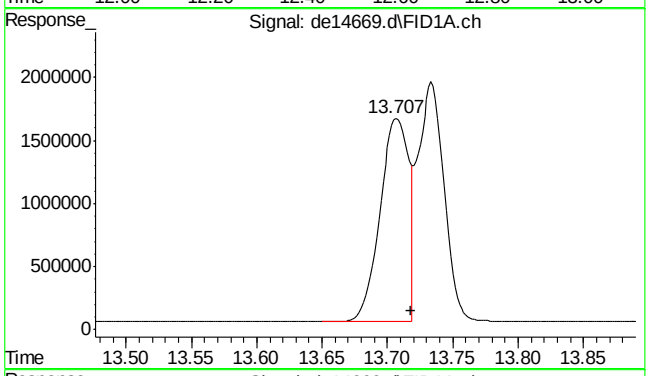
#14 benzo(a)anthracene

R.T.: 12.412 min
Delta R.T.: -0.012 min
Response: 2555074
Conc: 22.96 µg/ml



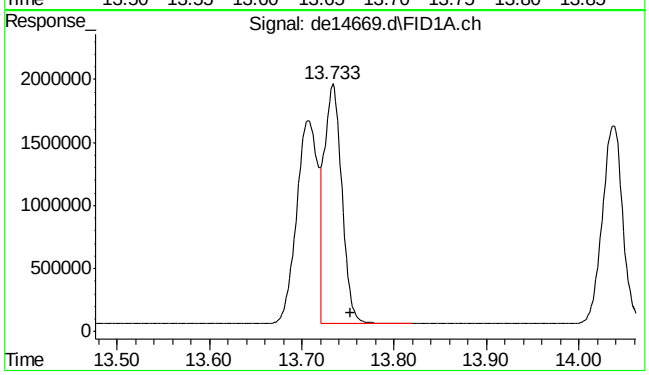
#15 chrysene

R.T.: 12.460 min
Delta R.T.: -0.012 min
Response: 2573974
Conc: 21.93 µg/ml



#16 benzo(B)fluoranthene

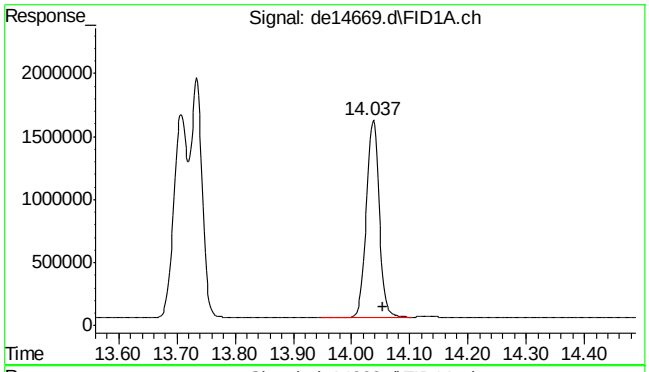
R.T.: 13.707 min
Delta R.T.: -0.012 min
Response: 2466504
Conc: 22.62 µg/ml m



#17 benzo(k)fluoranthene

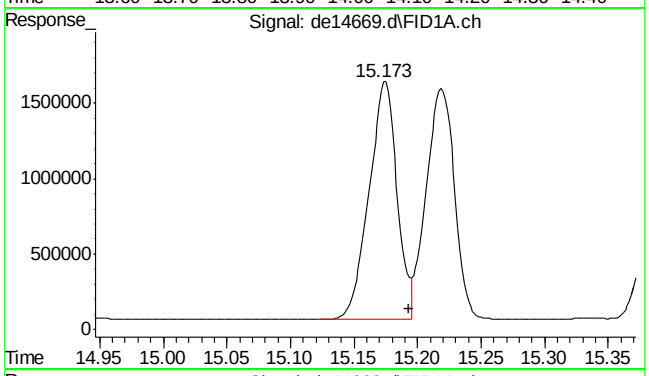
R.T.: 13.733 min
Delta R.T.: -0.020 min
Response: 2513496
Conc: 21.26 µg/ml m

SGS ACCUTEST MC46423



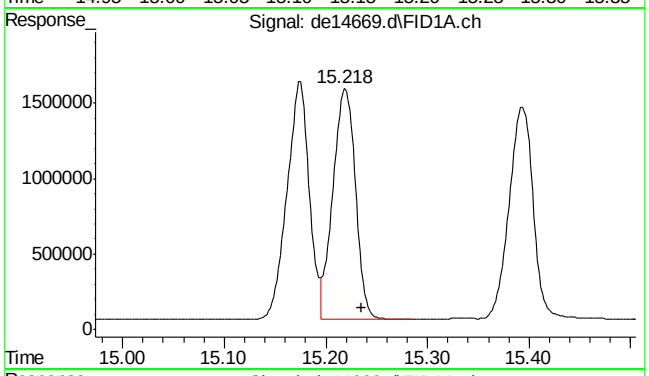
#18 benzo(a)pyrene

R.T.: 14.037 min
Delta R.T.: -0.017 min
Response: 2419189
Conc: 22.25 µg/ml



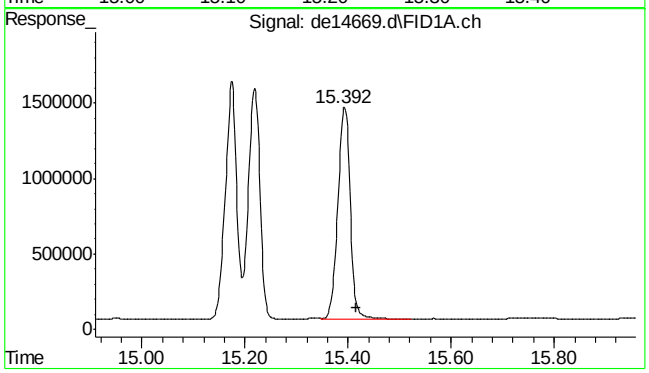
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.173 min
Delta R.T.: -0.020 min
Response: 2411740
Conc: 22.59 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.218 min
Delta R.T.: -0.017 min
Response: 2357845
Conc: 22.25 µg/ml m



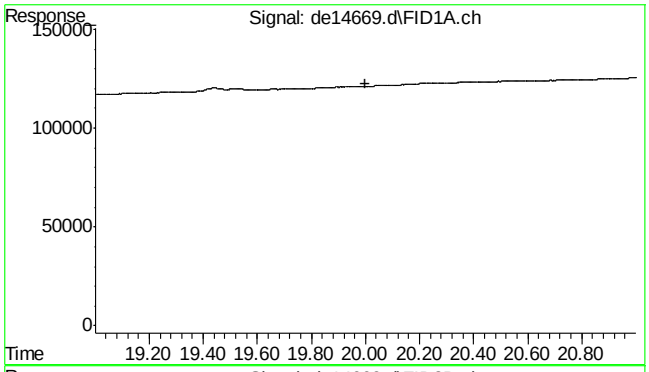
#21 benzo(ghi)perylene

R.T.: 15.392 min
Delta R.T.: -0.025 min
Response: 2338304
Conc: 22.30 µg/ml

9.4.4

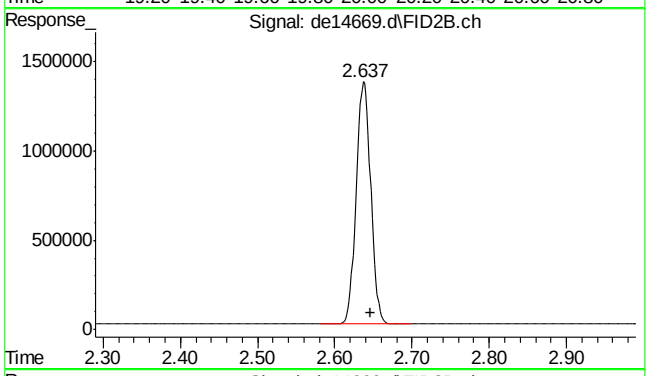
9

SGS ACCUTEST MC46423



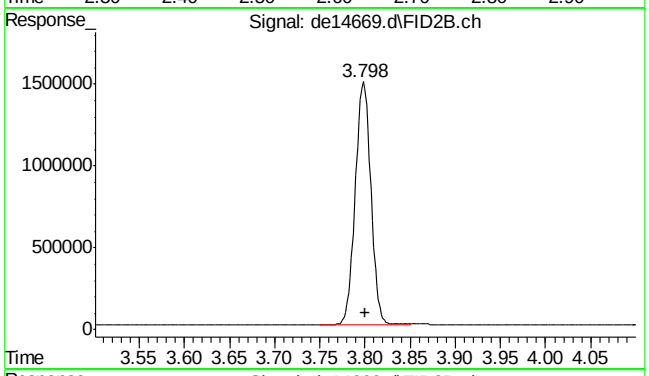
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



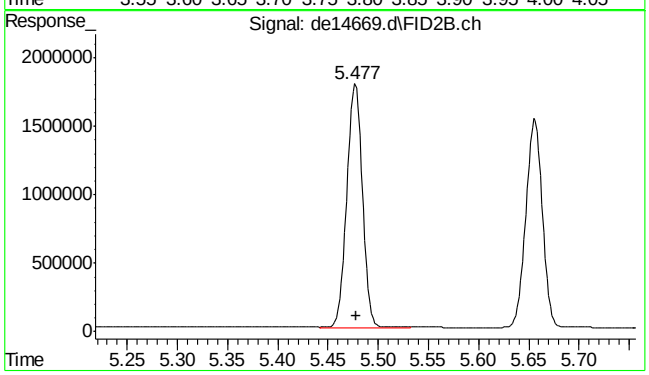
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1780249
Conc: 21.21 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 1799081
Conc: 21.18 µg/ml



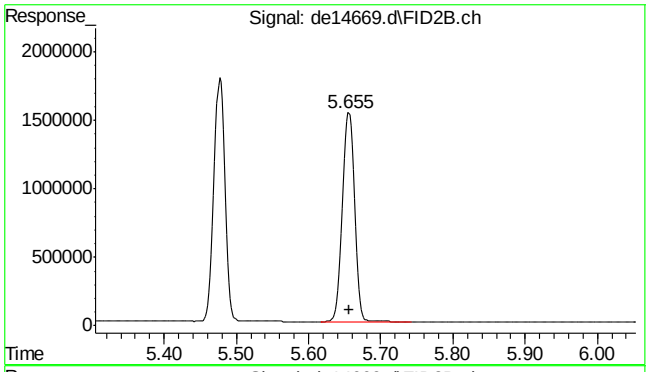
#27 naphthalene #2

R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 1908539
Conc: 22.16 µg/ml

9.4.4

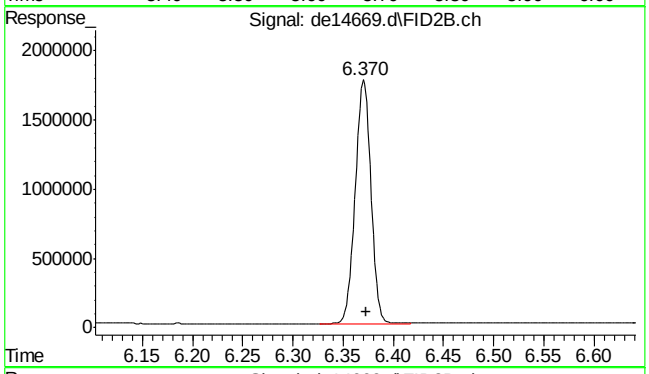
9

SGS ACCUTEST MC46423



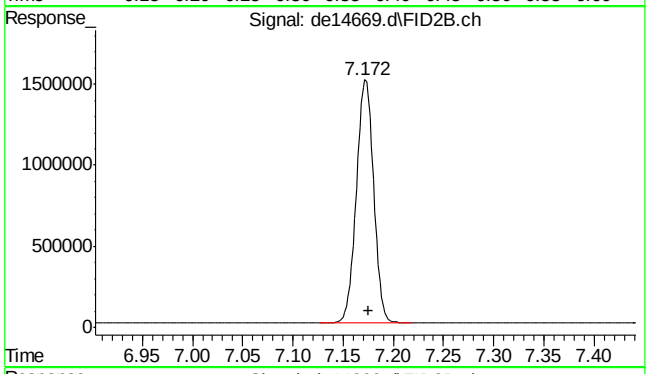
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 1778842
Conc: 21.30 µg/ml



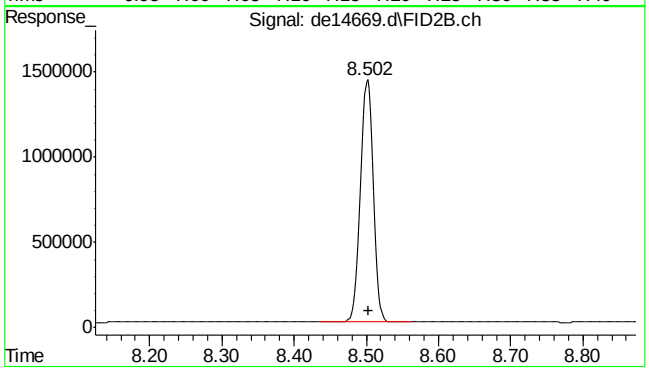
#29 2-methylnaphthalene #2

R.T.: 6.370 min
Delta R.T.: -0.003 min
Response: 1903208
Conc: 22.32 µg/ml



#30 c-14

R.T.: 7.172 min
Delta R.T.: -0.003 min
Response: 1773611
Conc: 21.17 µg/ml



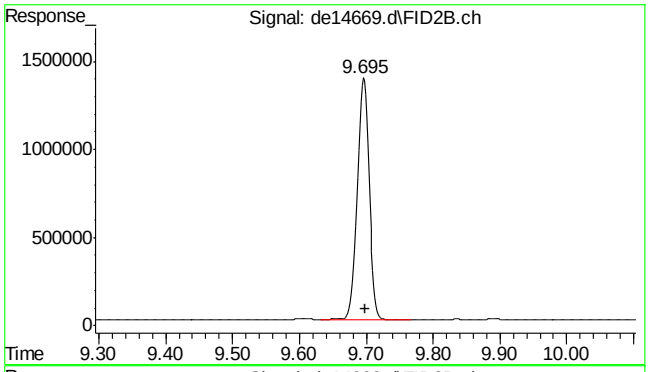
#31 c-16

R.T.: 8.502 min
Delta R.T.: -0.002 min
Response: 1757632
Conc: 20.80 µg/ml

9.4.4

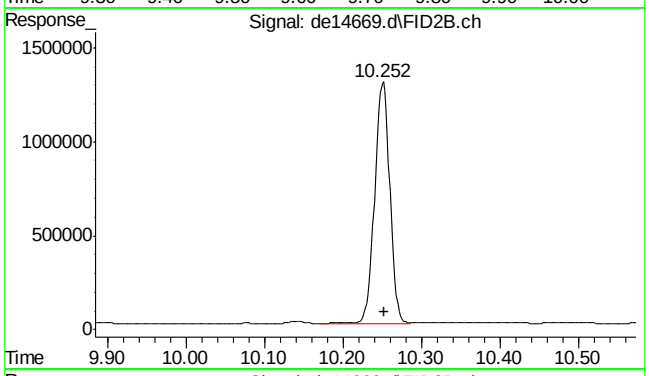
9

SGS ACCUTEST MC46423



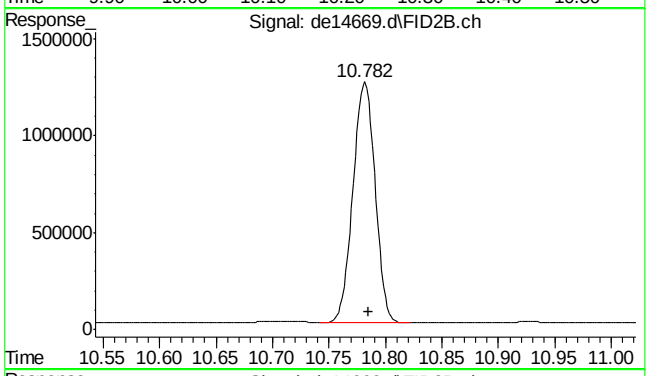
#32 c-18

R.T.: 9.695 min
Delta R.T.: -0.003 min
Response: 1741774
Conc: 21.02 µg/ml



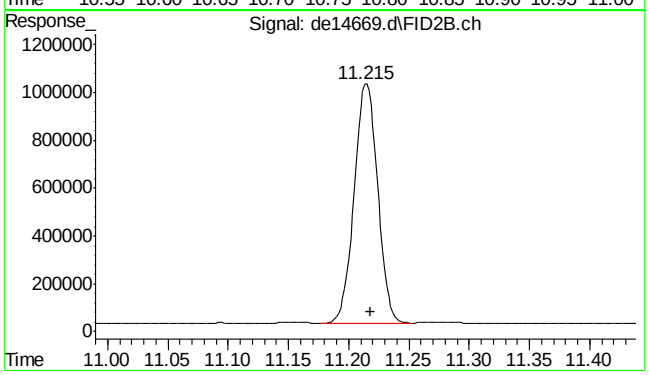
#33 c-19

R.T.: 10.252 min
Delta R.T.: -0.002 min
Response: 1723593
Conc: 20.93 µg/ml



#34 c-20

R.T.: 10.782 min
Delta R.T.: -0.003 min
Response: 1694193
Conc: 21.31 µg/ml



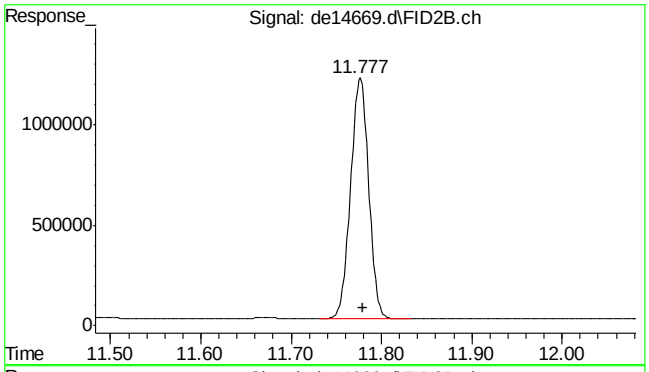
#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 1362404
Conc: 22.20 µg/ml

9.4.4

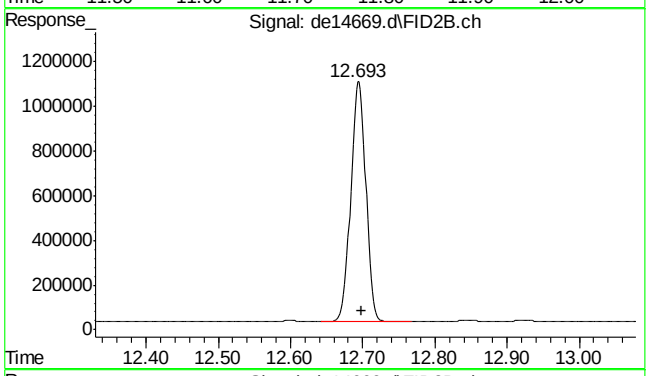
9

SGS ACCUTEST MC46423



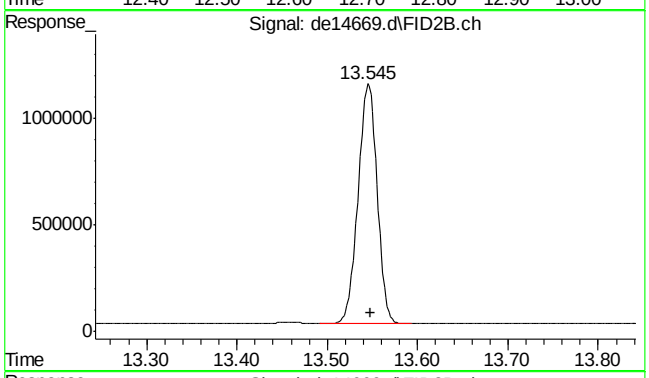
#36 c-22

R.T.: 11.777 min
Delta R.T.: -0.003 min
Response: 1677797
Conc: 21.22 µg/ml



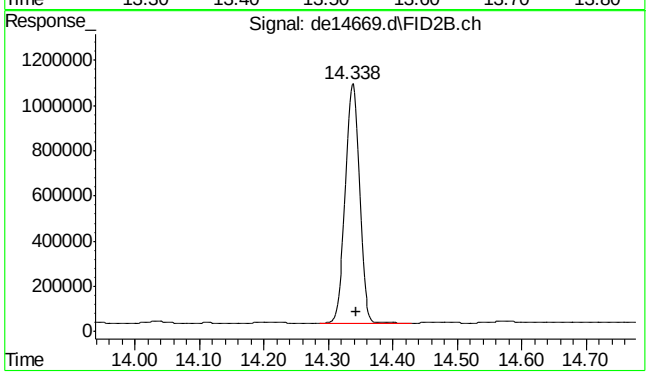
#37 c-24

R.T.: 12.693 min
Delta R.T.: -0.005 min
Response: 1563000
Conc: 20.73 µg/ml



#38 c-26

R.T.: 13.545 min
Delta R.T.: -0.003 min
Response: 1663159
Conc: 21.17 µg/ml



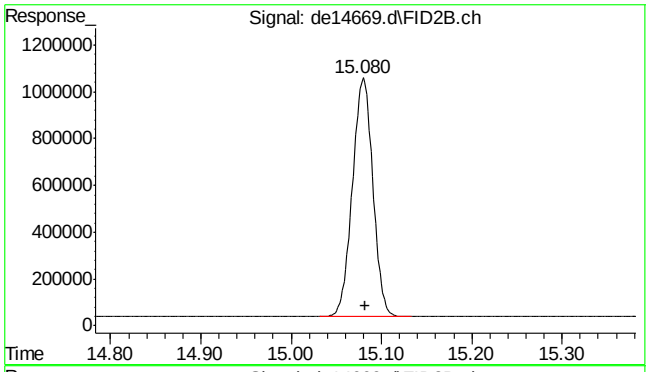
#39 c-28

R.T.: 14.338 min
Delta R.T.: -0.005 min
Response: 1607781
Conc: 21.43 µg/ml

9.4.4

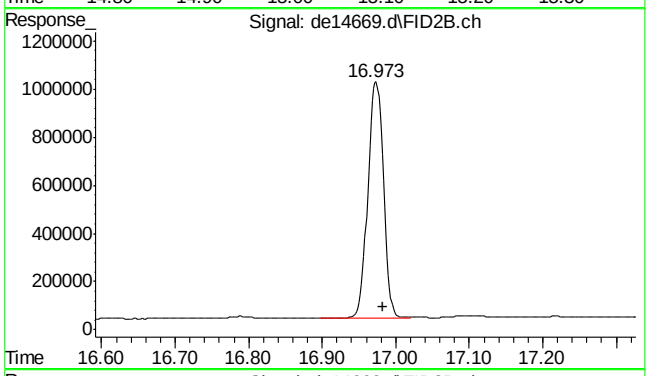
9

SGS ACCUTEST MC46423



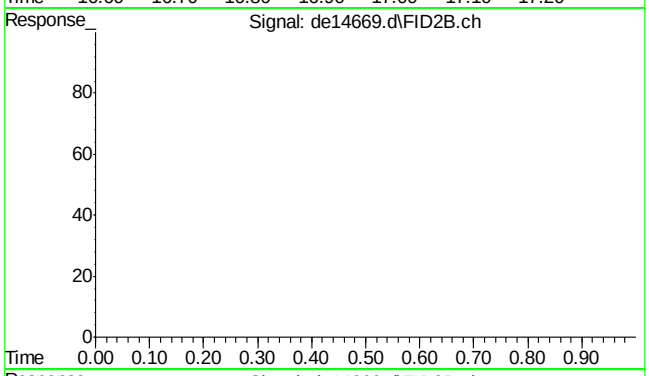
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1615388
Conc: 19.57 µg/ml



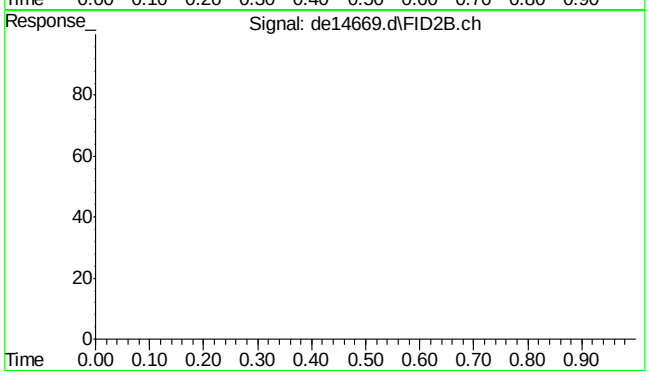
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1450363
Conc: 21.77 µg/ml m



#42 bht

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



#43 bht

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

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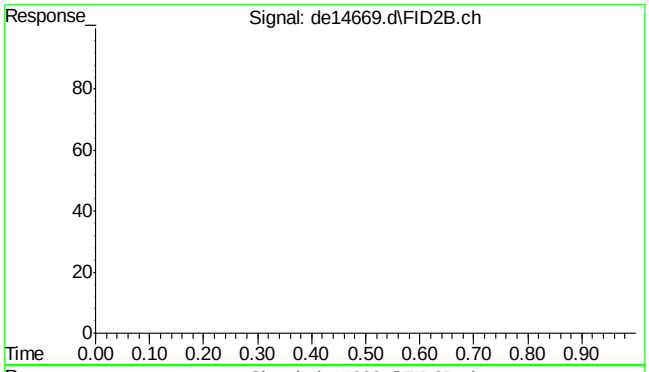
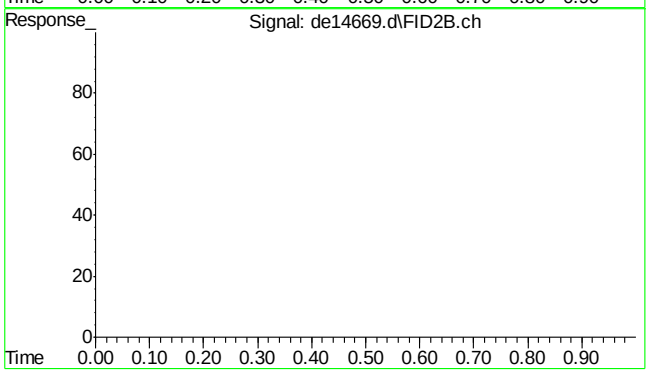


#44 bht

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



#45 bht

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

9.4.4

9

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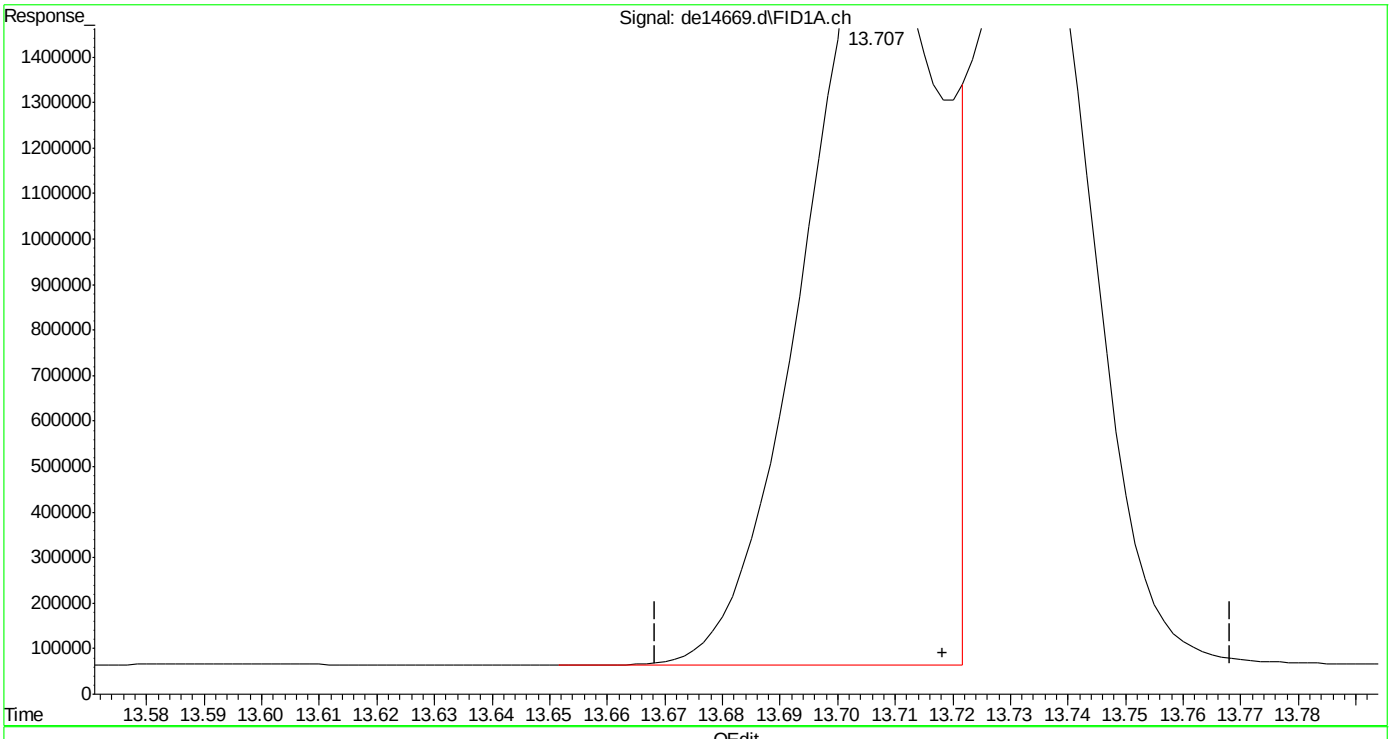
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
13.707min 24.928 µg/ml
response 2717636

(+) = Expected Retention Time

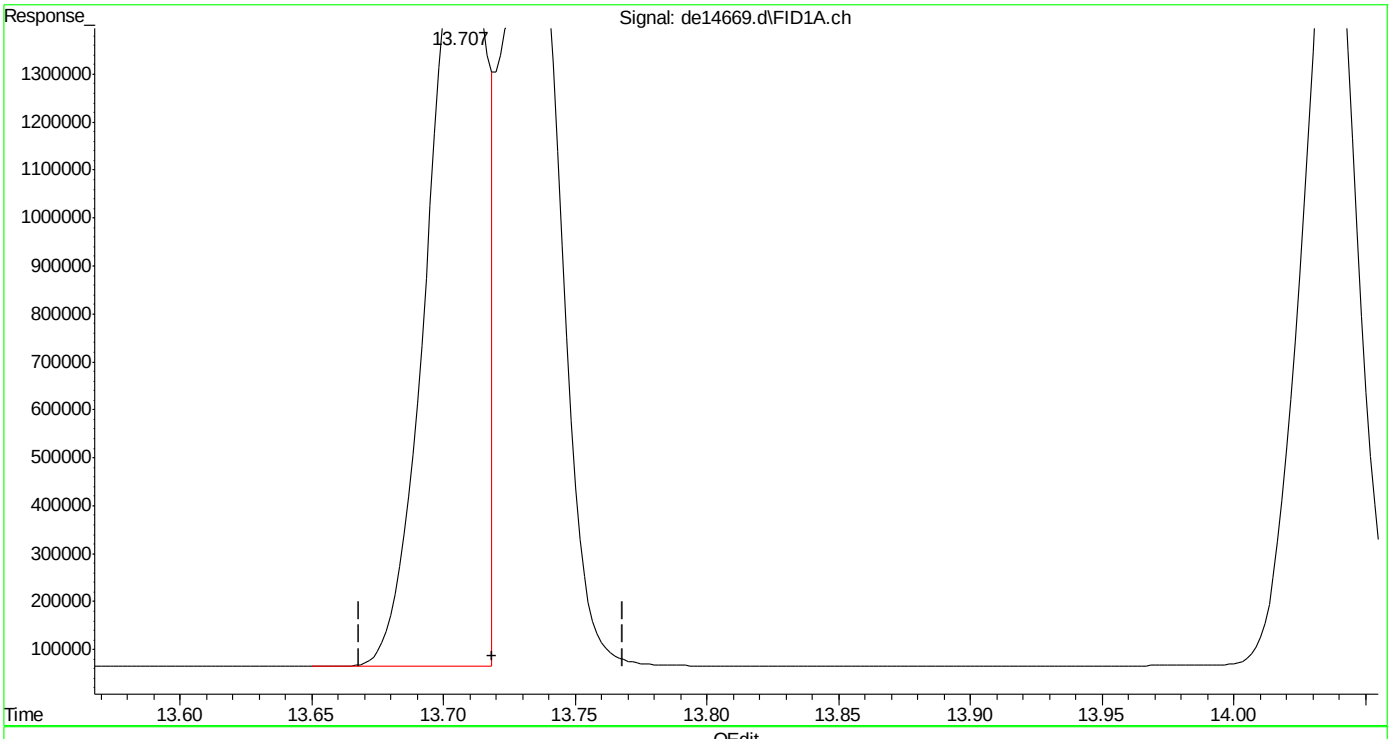
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
13.707min 22.625 µg/ml m
response 2466504

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:54:50 2016

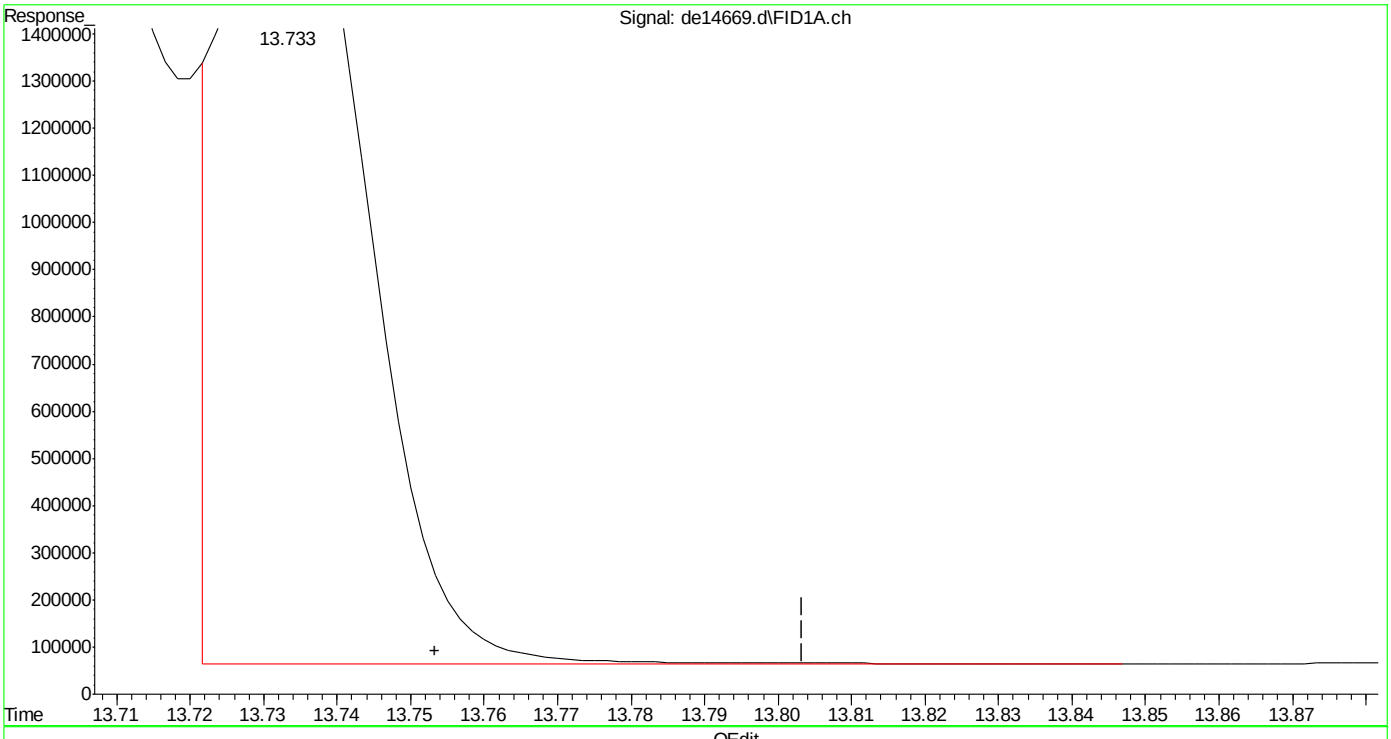
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
13.733min 20.163 µg/ml
response 2383767

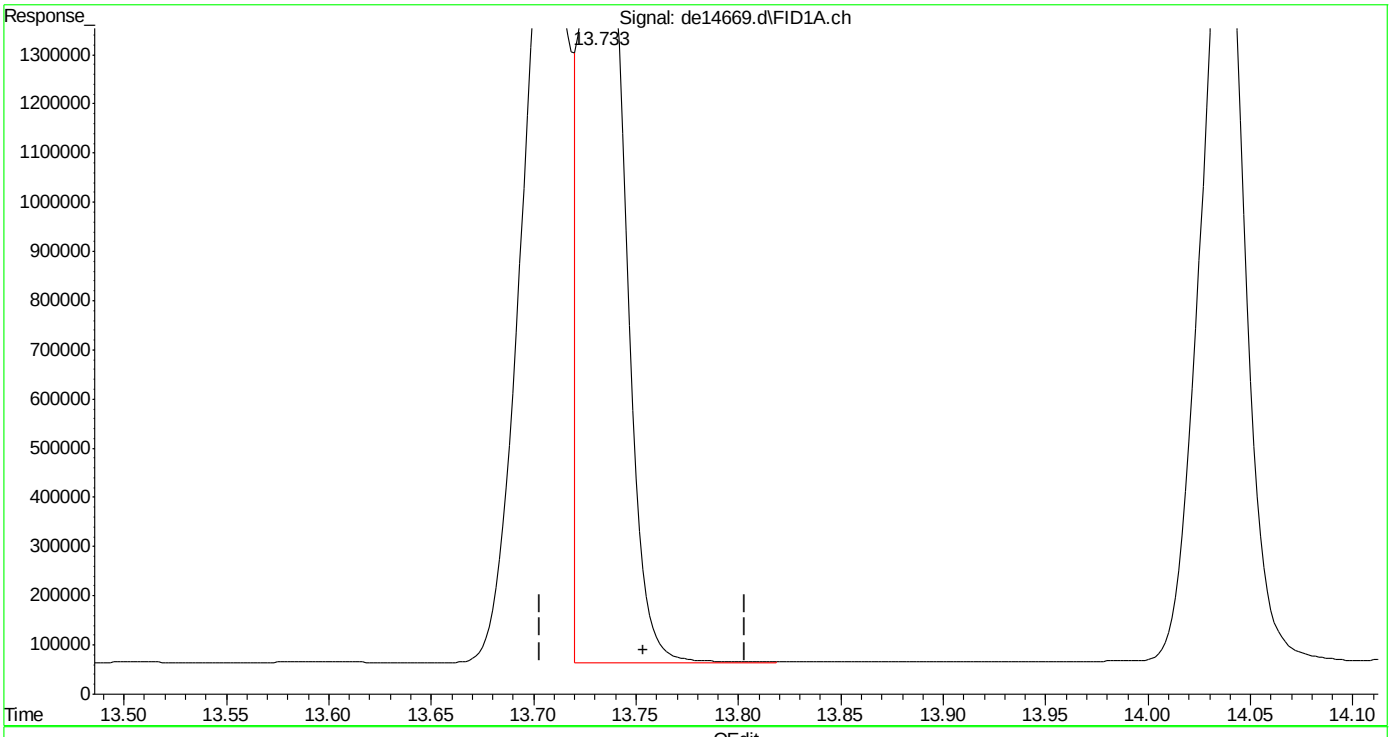
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
13.733min 21.260 µg/ml m
response 2513496

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 07:55:10 2016

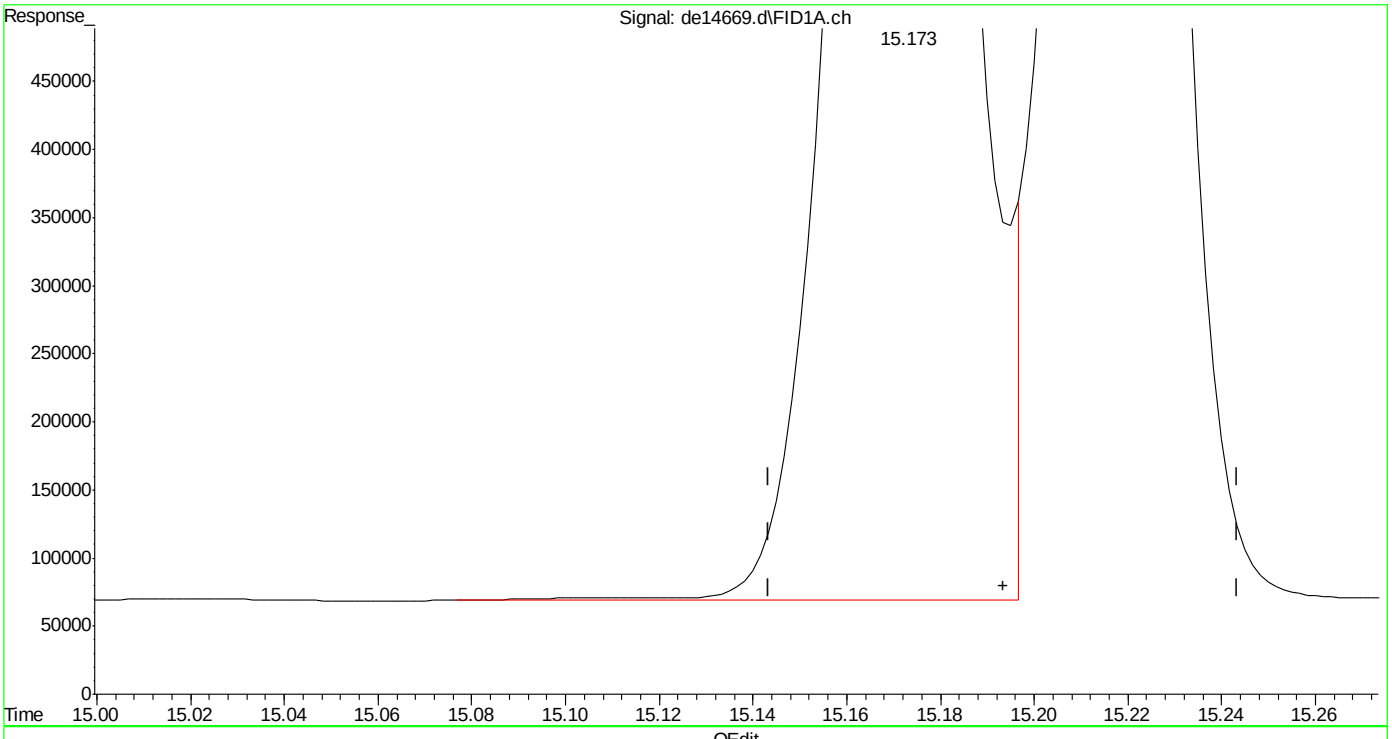
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
15.173min 22.905 µg/ml
response 2445015

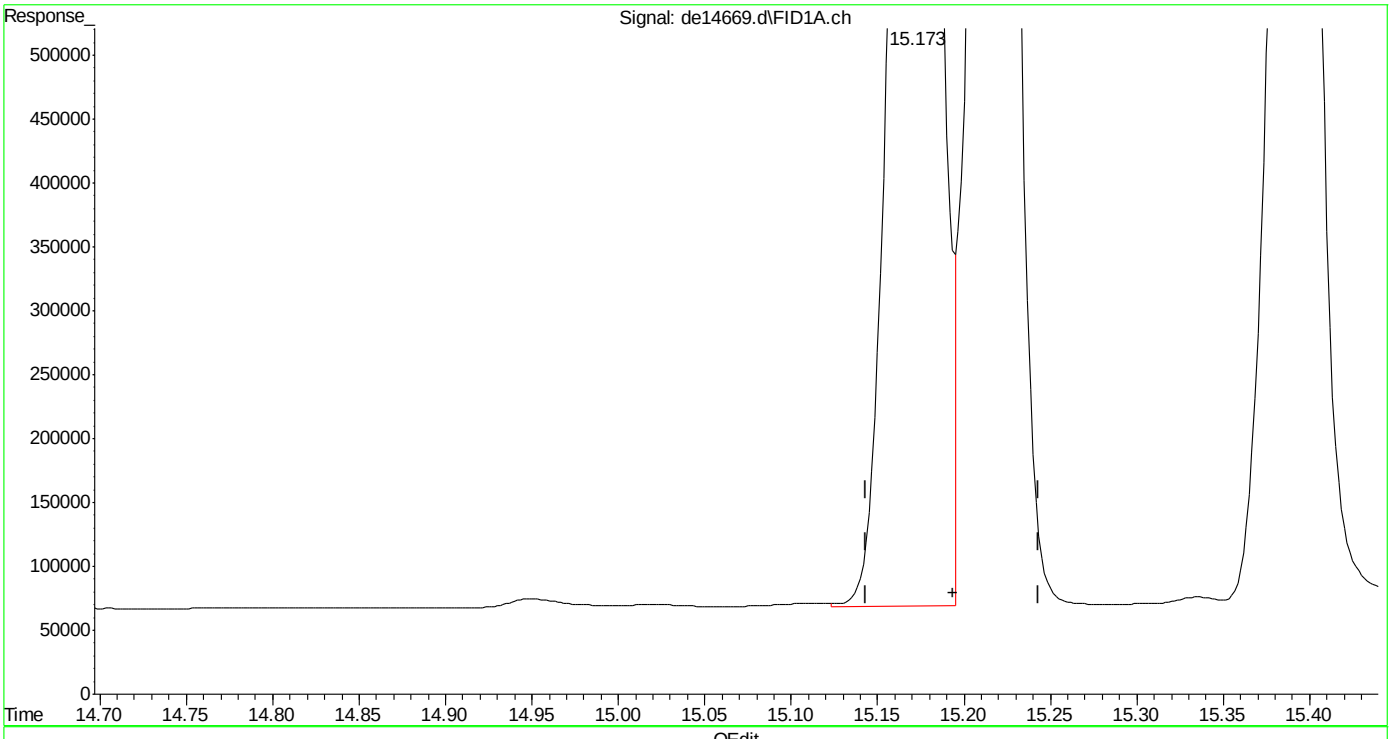
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
15.173min 22.594 µg/ml m
response 2411740

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:55:27 2016

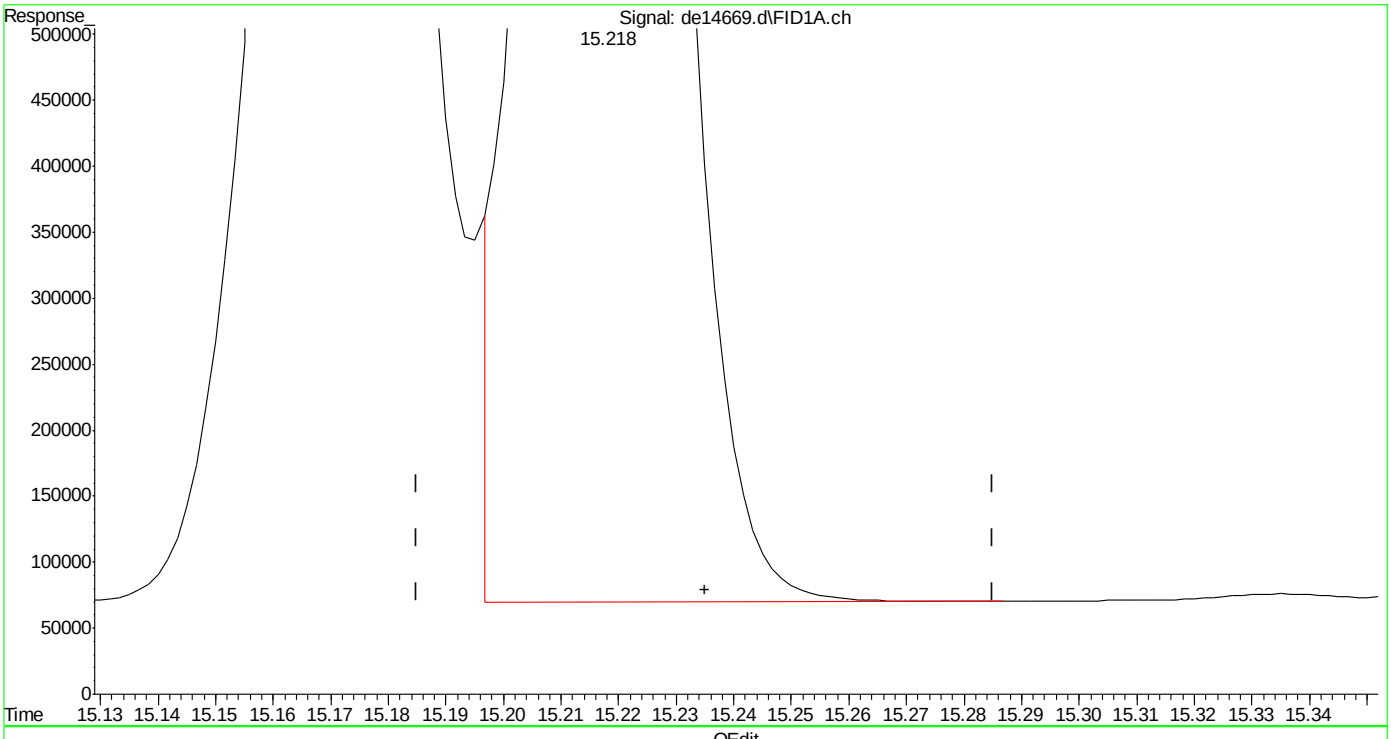
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
15.218min 21.960 µg/ml
response 2326853

(+) = Expected Retention Time

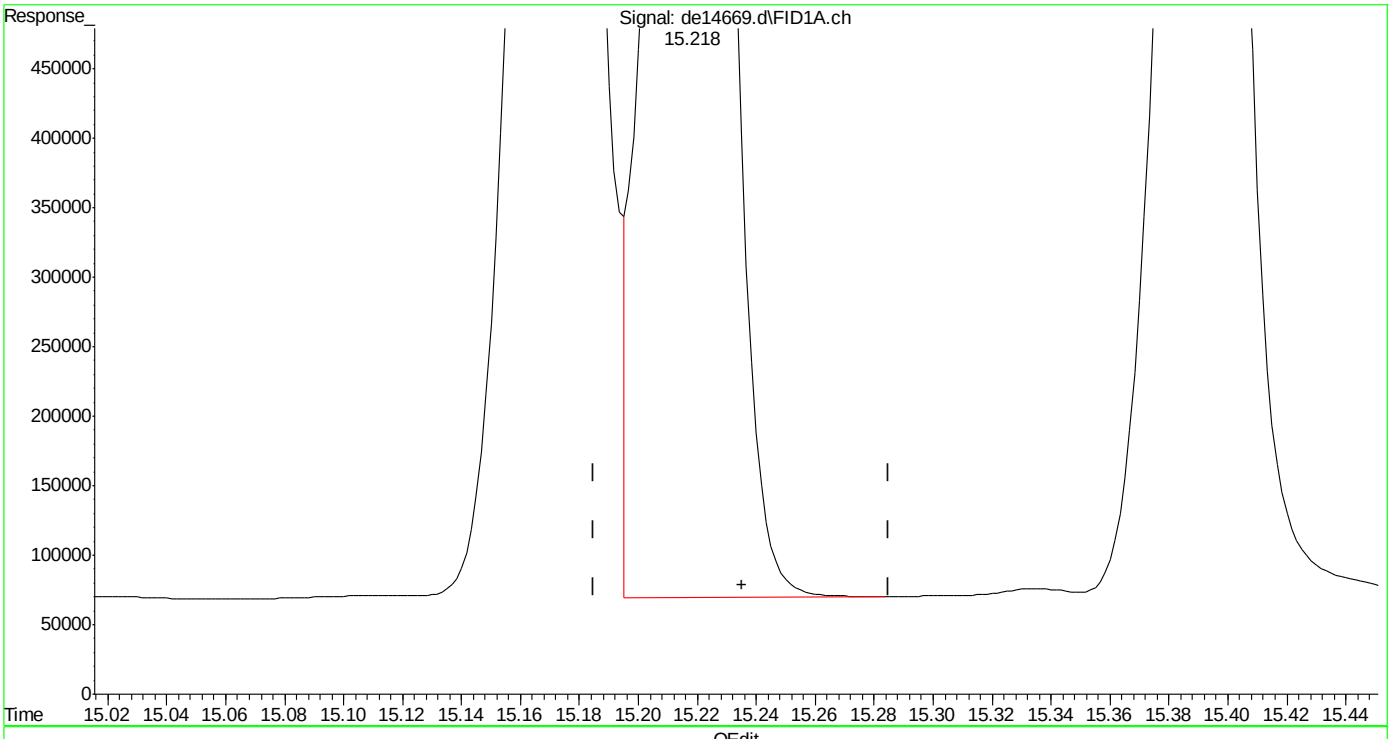
EPH160622W.M Thu Jun 23 07:55:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : cc815-20
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:54:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:53:54 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
15.218min 22.253 µg/ml m
response 2357845

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:55:44 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:47:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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	6.485	5918591	64.172 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 320.86%#
6) s	2-bromonaphthalene	7.207	3983702	63.480 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 317.40%#
11) s	o-terphenyl	9.748	6671623	65.136 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 325.68%#
35) s	1-chlorooctadecane	11.217	3273211	57.856 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 289.28%#
	Target Compounds			
2)	naphthalene	5.027	6623759	64.221 µg/ml
3)	2-methylnaphthalene	5.930	6449170	62.930 µg/ml
5)	acenaphthylene	7.042	6467035	64.284 µg/ml
7)	acenaphthene	7.283	6839743	66.164 µg/ml
8)	fluorene	7.927	6614321	65.122 µg/ml
9)	phenanthrene	9.103	6609576	64.951 µg/ml
10)	anthracene	9.162	6241594	64.341 µg/ml
12)	fluoranthene	10.602	6526164	65.300 µg/ml
13)	pyrene	10.860	6691657	65.952 µg/ml
14)	benzo(a)anthracene	12.418	6286876	65.031 µg/ml
15)	chrysene	12.467	6308858	64.812 µg/ml
16)	benzo(B)fluoranthene	13.715	6276008	63.392 µg/mlm
17)	benzo(k)fluoranthene	13.747	6302924	66.696 µg/mlm
18)	benzo(a)pyrene	14.047	5968168	64.566 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.187	5972476	63.095 µg/mlm
20)	dibenzo(ah)anthracene	15.230	5802054	63.481 µg/mlm
21)	benzo(ghi)perylene	15.408	5770697	62.641 µg/ml
25) h	c-9	2.647	4268198	57.778 µg/mlm
26) h	c-10	3.800	4303580	58.257 µg/ml
27)	naphthalene #2	5.478	4591998	57.492 µg/ml
28)	c-12	5.657	4254199	57.589 µg/ml
29)	2-methylnaphthalene #2	6.373	4565165	56.663 µg/ml
30)	c-14	7.173	4224254	57.183 µg/ml
31)	c-16	8.503	4179046	56.571 µg/ml
32)	c-18	9.698	4132964	55.948 µg/ml
33)	c-19	10.253	4137861	61.938 µg/ml
34)	c-20	10.785	4040583	60.482 µg/ml
36)	c-22	11.780	4011818	60.051 µg/ml
37)	c-24	12.695	3738267	55.957 µg/ml
38)	c-26	13.547	3986914	59.679 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:47:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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	14.340	3856562	57.727 µg/ml
40) h	c-30	15.082	3850472	57.636 µg/ml
41) h	c-36	16.983	3524293	52.754 µg/mlm

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

9.4.5

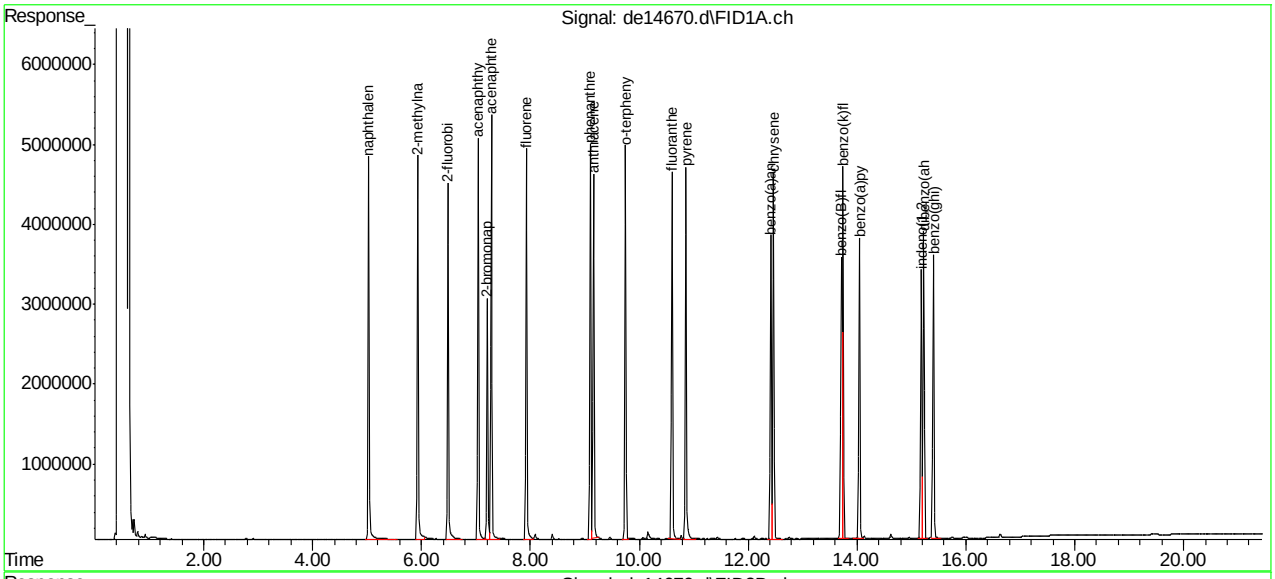
9

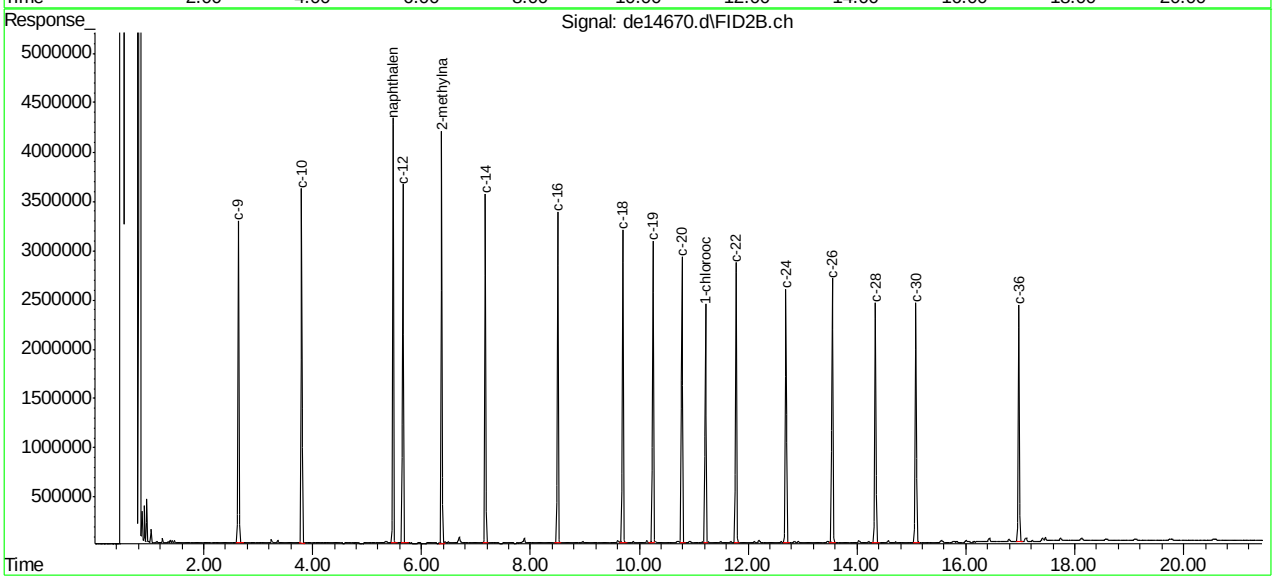
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:47:33 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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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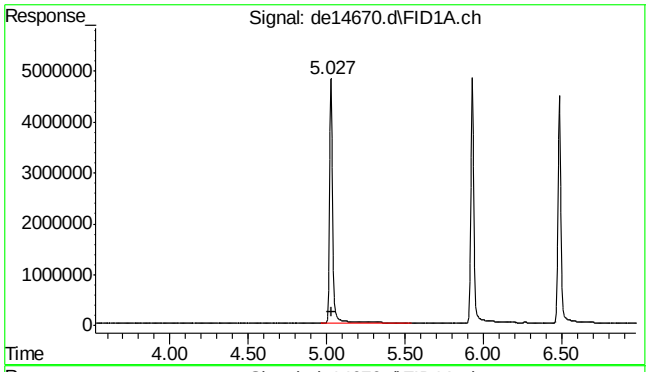
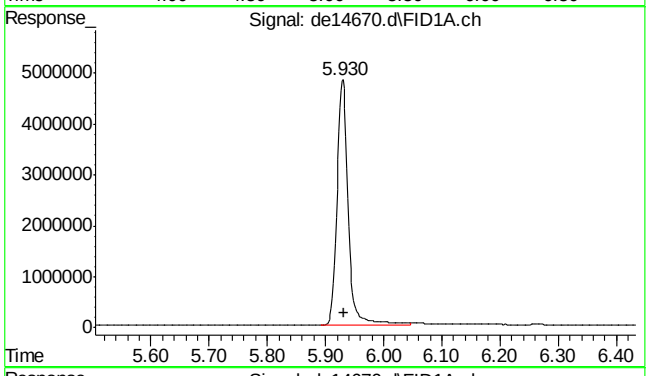


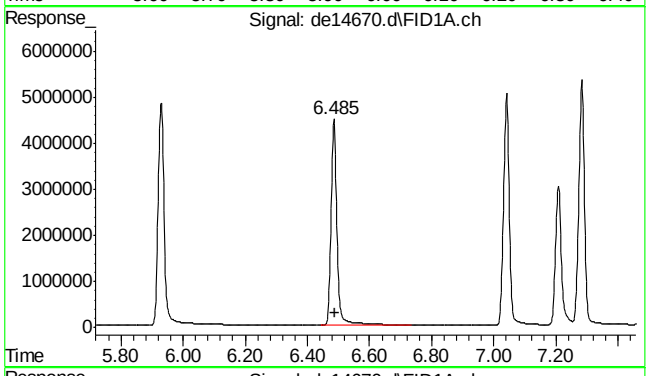
#2 naphthalene

R.T.: 5.027 min
Delta R.T.: -0.003 min
Response: 6623759
Conc: 64.22 µg/ml



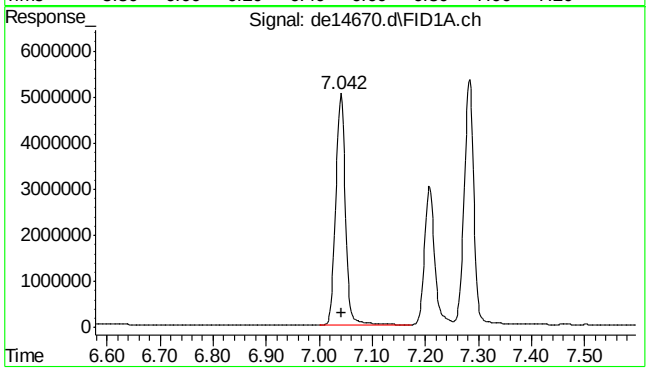
#3 2-methylnaphthalene

R.T.: 5.930 min
Delta R.T.: -0.002 min
Response: 6449170
Conc: 62.93 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.485 min
Delta R.T.: -0.003 min
Response: 5918591
Conc: 64.17 µg/ml



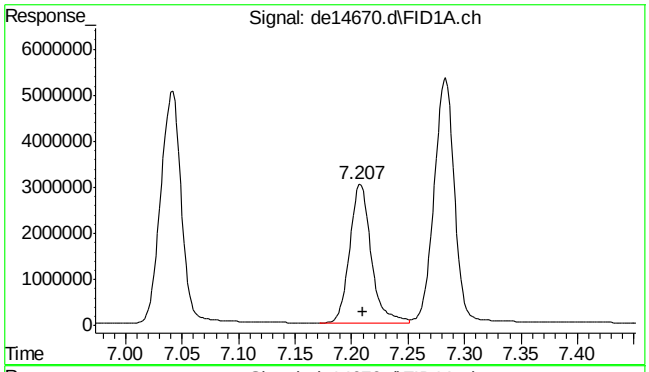
#5 acenaphthylene

R.T.: 7.042 min
Delta R.T.: 0.000 min
Response: 6467035
Conc: 64.28 µg/ml

9.4.5

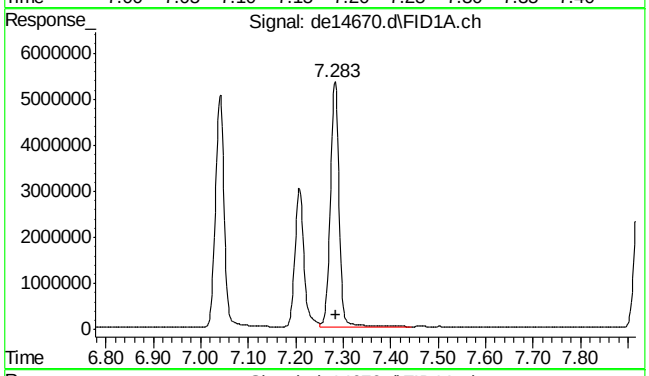
9

SGS ACCUTEST MC46423



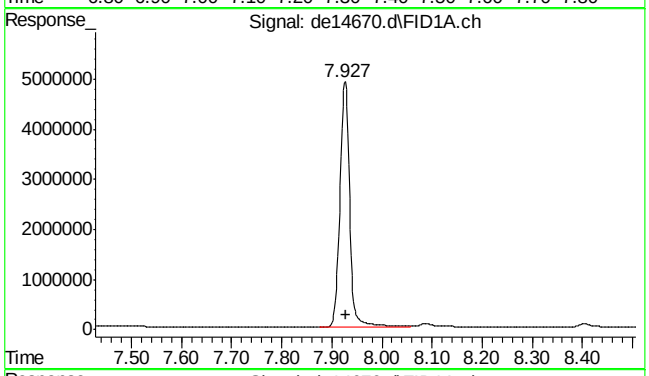
#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 3983702
Conc: 63.48 µg/ml



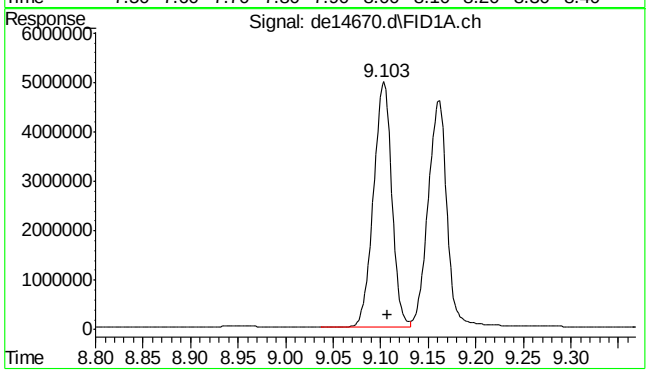
#7 acenaphthene

R.T.: 7.283 min
Delta R.T.: -0.002 min
Response: 6839743
Conc: 66.16 µg/ml



#8 fluorene

R.T.: 7.927 min
Delta R.T.: -0.002 min
Response: 6614321
Conc: 65.12 µg/ml



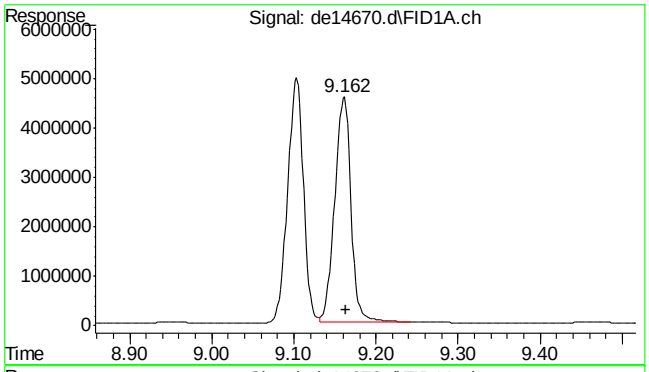
#9 phenanthrene

R.T.: 9.103 min
Delta R.T.: -0.003 min
Response: 6609576
Conc: 64.95 µg/ml

9.4.5

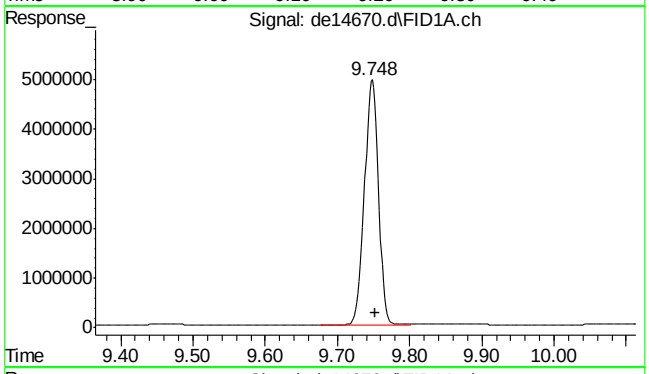
9

SGS ACCUTEST MC46423



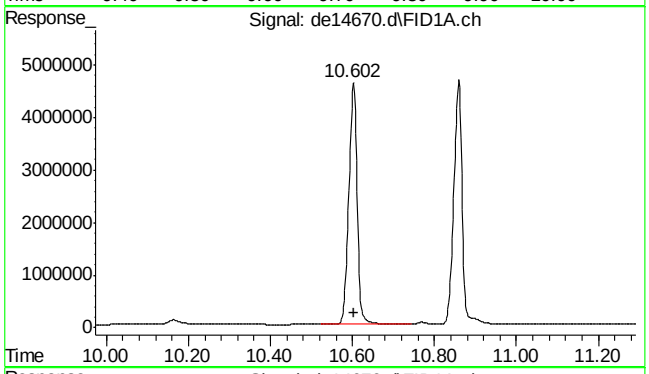
#10 anthracene

R.T.: 9.162 min
Delta R.T.: -0.002 min
Response: 6241594
Conc: 64.34 µg/ml



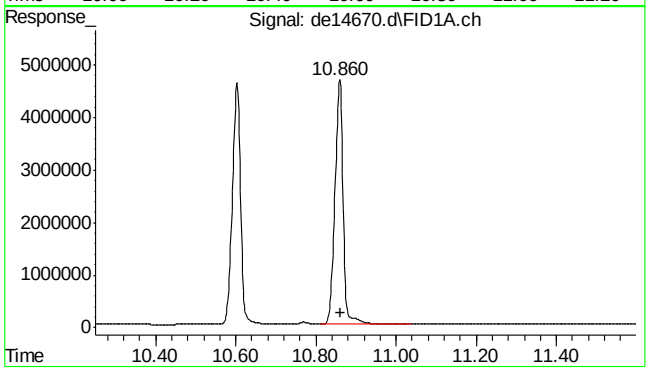
#11 o-terphenyl

R.T.: 9.748 min
Delta R.T.: -0.003 min
Response: 6671623
Conc: 65.14 µg/ml



#12 fluoranthene

R.T.: 10.602 min
Delta R.T.: -0.003 min
Response: 6526164
Conc: 65.30 µg/ml



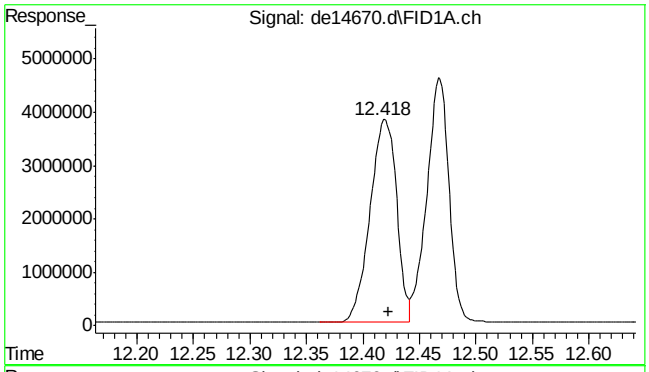
#13 pyrene

R.T.: 10.860 min
Delta R.T.: -0.002 min
Response: 6691657
Conc: 65.95 µg/ml

9.4.5

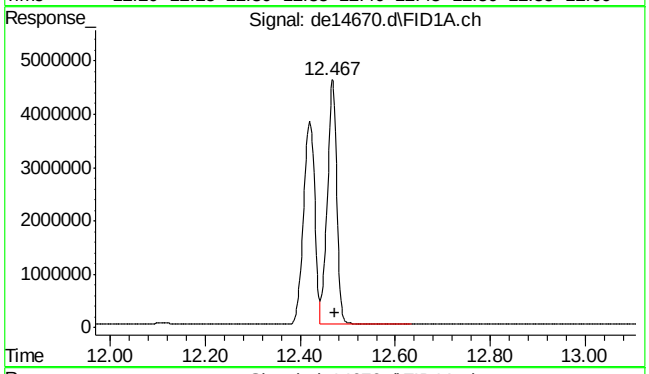
9

SGS ACCUTEST MC46423



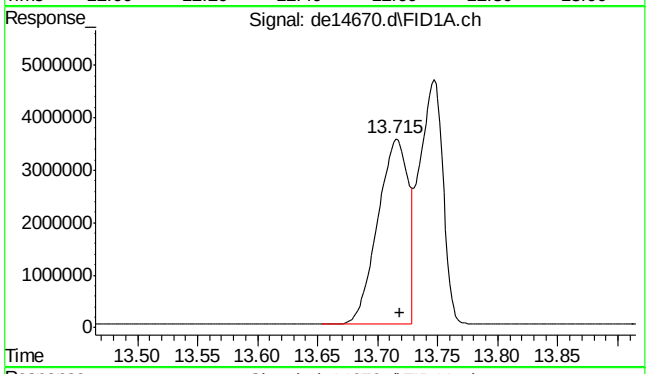
#14 benzo(a)anthracene

R.T.: 12.418 min
Delta R.T.: -0.005 min
Response: 6286876
Conc: 65.03 µg/ml



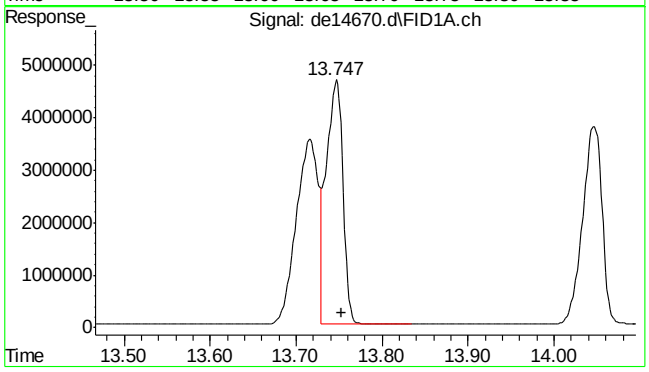
#15 chrysene

R.T.: 12.467 min
Delta R.T.: -0.005 min
Response: 6308858
Conc: 64.81 µg/ml



#16 benzo(B)fluoranthene

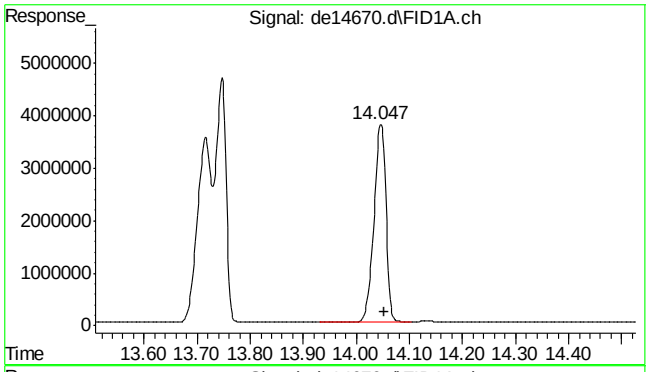
R.T.: 13.715 min
Delta R.T.: -0.003 min
Response: 6276008
Conc: 63.39 µg/ml m



#17 benzo(k)fluoranthene

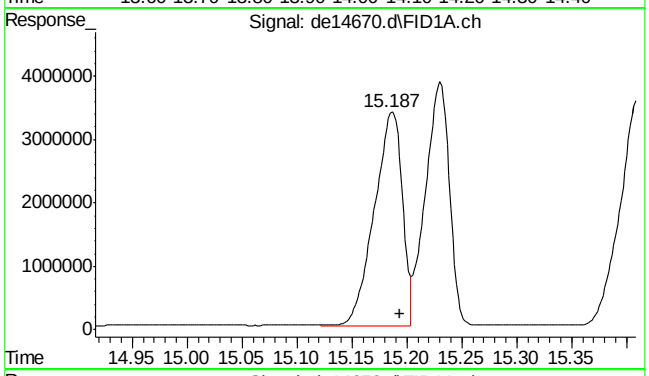
R.T.: 13.747 min
Delta R.T.: -0.007 min
Response: 6302924
Conc: 66.70 µg/ml m

SGS ACCUTEST MC46423



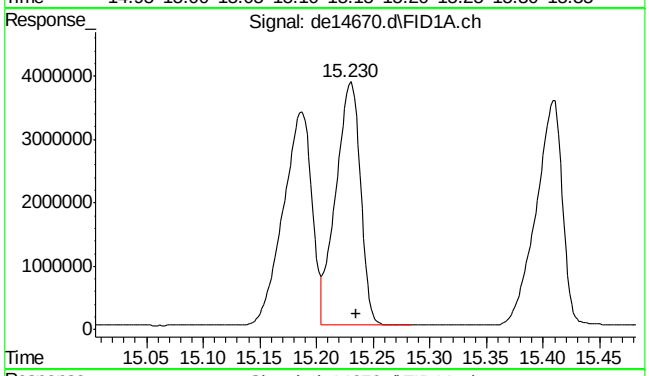
#18 benzo(a)pyrene

R.T.: 14.047 min
Delta R.T.: -0.007 min
Response: 5968168
Conc: 64.57 µg/ml



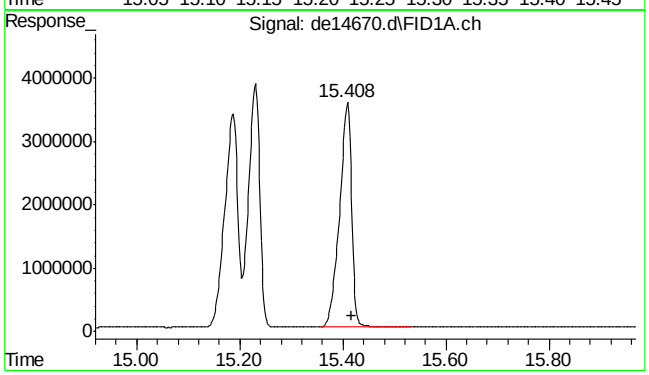
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.187 min
Delta R.T.: -0.007 min
Response: 5972476
Conc: 63.10 µg/ml m



#20 dibenzo(ah)anthracene

R.T.: 15.230 min
Delta R.T.: -0.005 min
Response: 5802054
Conc: 63.48 µg/ml m



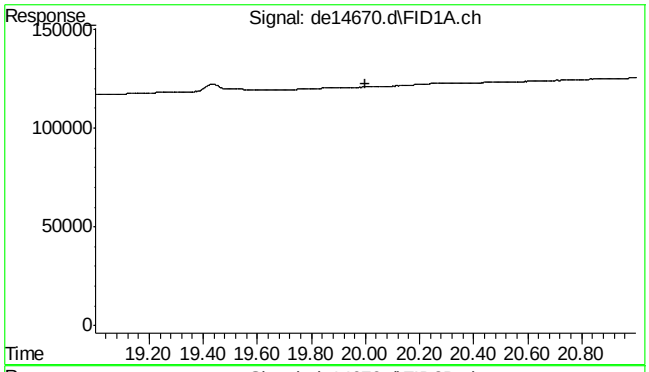
#21 benzo(ghi)perylene

R.T.: 15.408 min
Delta R.T.: -0.008 min
Response: 5770697
Conc: 62.64 µg/ml

9.4.5

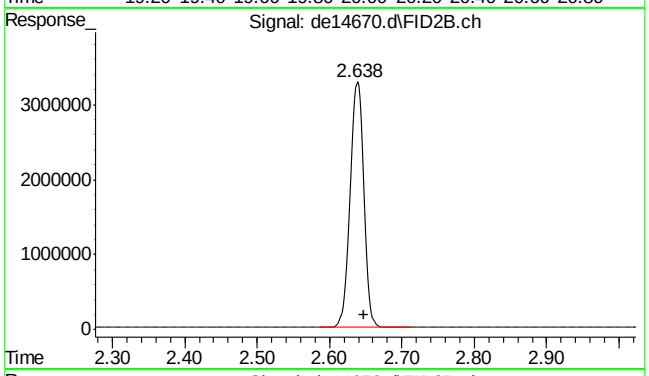
9

SGS ACCUTEST MC46423



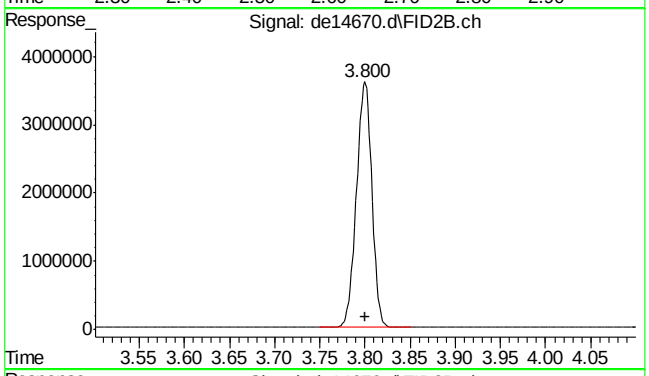
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



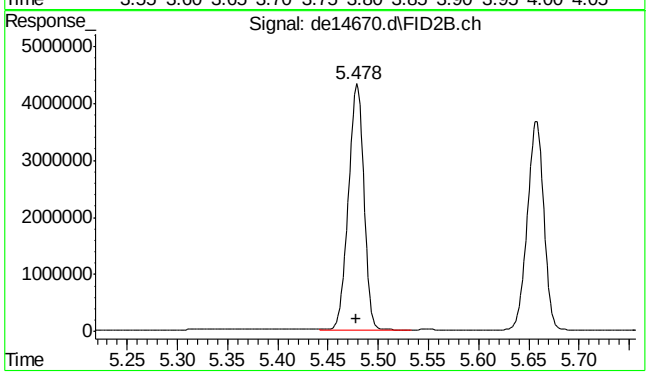
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4268198
Conc: 57.78 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4303580
Conc: 58.26 µg/ml



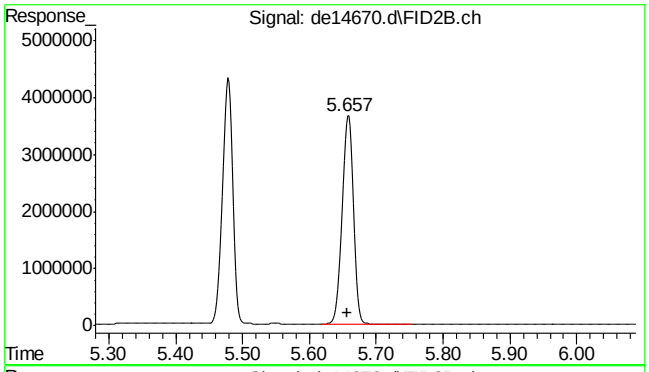
#27 naphthalene #2

R.T.: 5.478 min
Delta R.T.: 0.000 min
Response: 4591998
Conc: 57.49 µg/ml

9.4.5

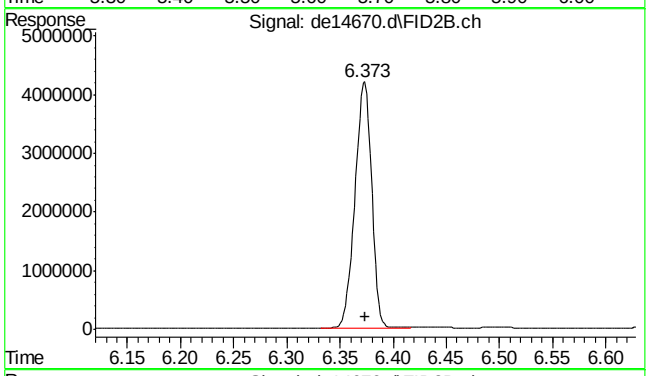
9

SGS ACCUTEST MC46423



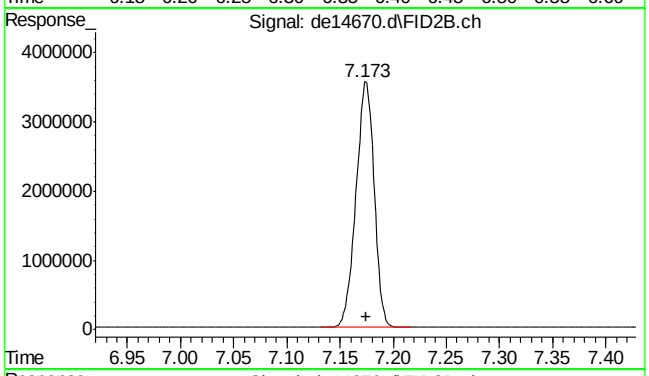
#28 c-12

R.T.: 5.657 min
Delta R.T.: 0.000 min
Response: 4254199
Conc: 57.59 µg/ml



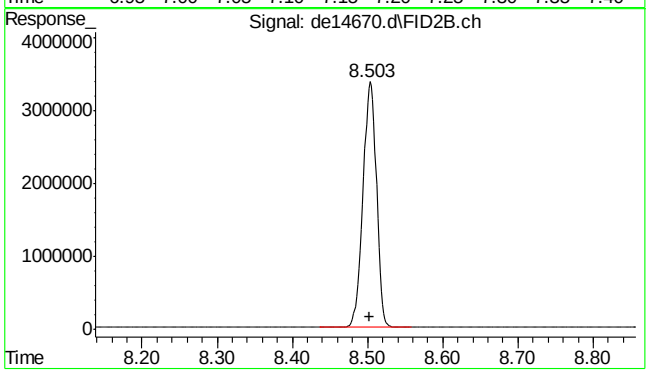
#29 2-methylnaphthalene #2

R.T.: 6.373 min
Delta R.T.: 0.000 min
Response: 4565165
Conc: 56.66 µg/ml



#30 c-14

R.T.: 7.173 min
Delta R.T.: -0.002 min
Response: 4224254
Conc: 57.18 µg/ml



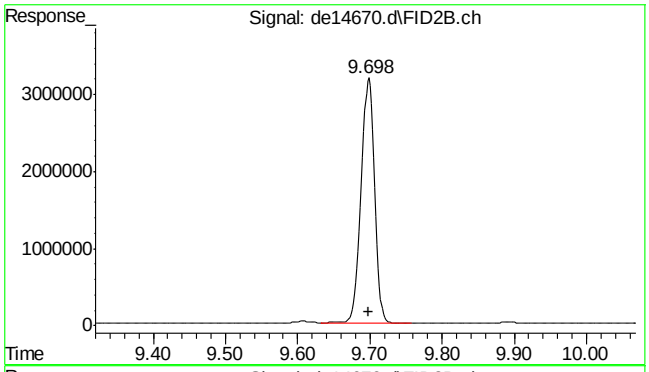
#31 c-16

R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 4179046
Conc: 56.57 µg/ml

9.4.5

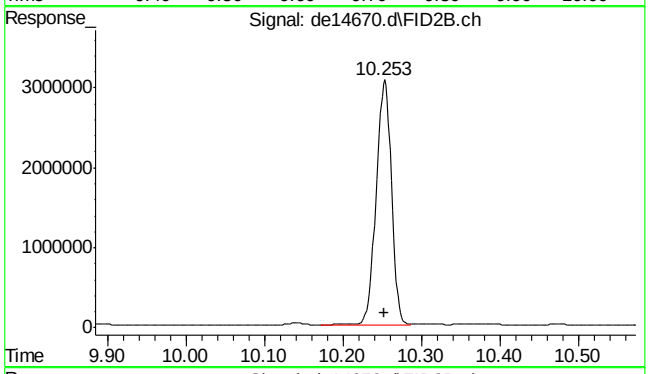
9

SGS ACCUTEST MC46423



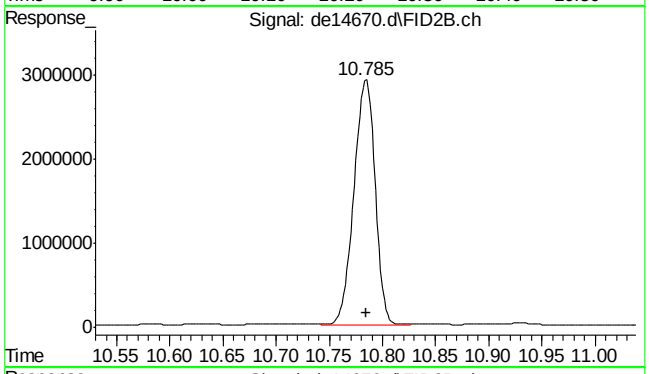
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 4132964
Conc: 55.95 µg/ml



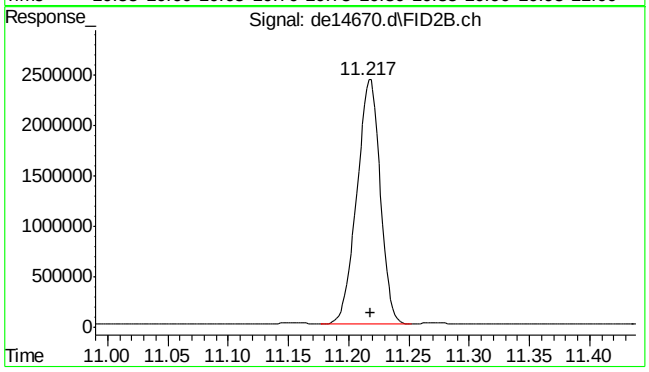
#33 c-19

R.T.: 10.253 min
Delta R.T.: 0.000 min
Response: 4137861
Conc: 61.94 µg/ml



#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 4040583
Conc: 60.48 µg/ml



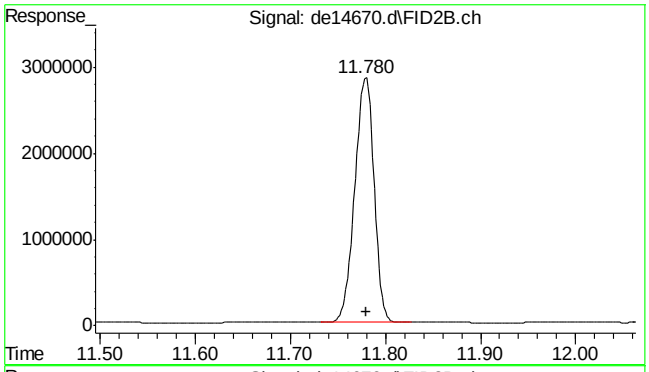
#35 1-chlorooctadecane

R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 3273211
Conc: 57.86 µg/ml

9.4.5

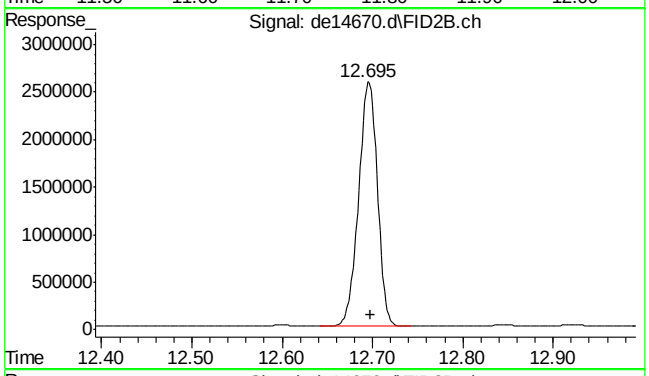
9

SGS ACCUTEST MC46423



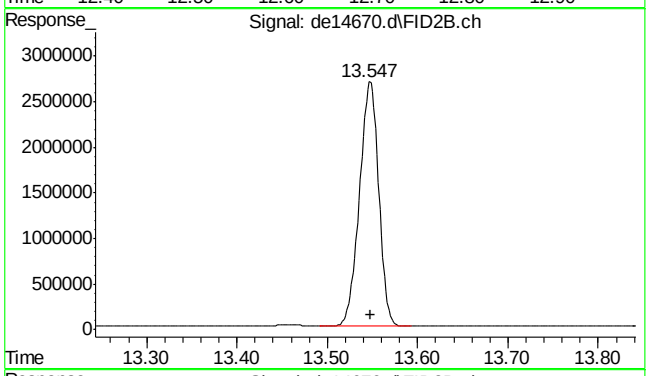
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 4011818
Conc: 60.05 µg/ml



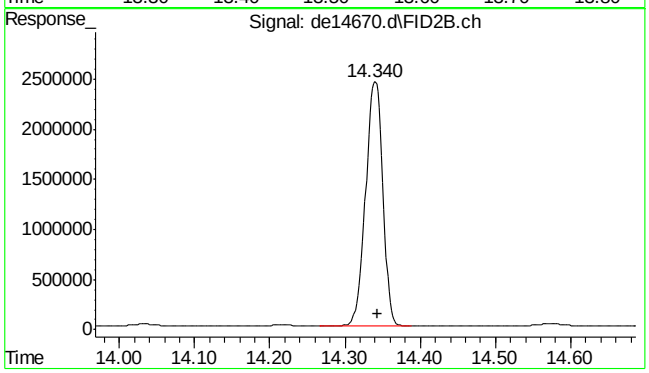
#37 c-24

R.T.: 12.695 min
Delta R.T.: -0.003 min
Response: 3738267
Conc: 55.96 µg/ml



#38 c-26

R.T.: 13.547 min
Delta R.T.: -0.002 min
Response: 3986914
Conc: 59.68 µg/ml



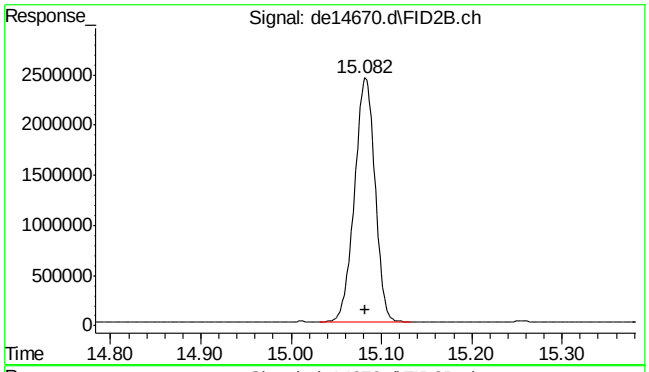
#39 c-28

R.T.: 14.340 min
Delta R.T.: -0.003 min
Response: 3856562
Conc: 57.73 µg/ml

9.4.5

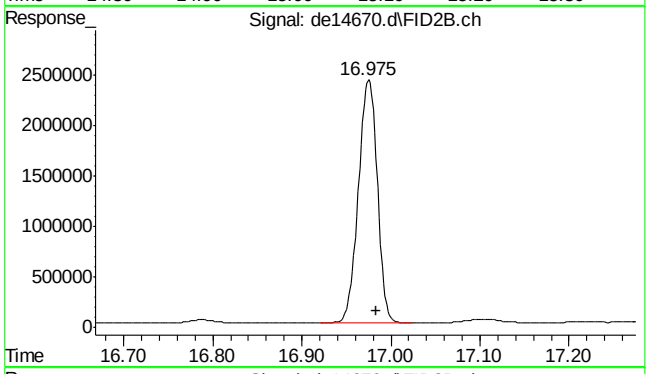
9

SGS ACCUTEST MC46423



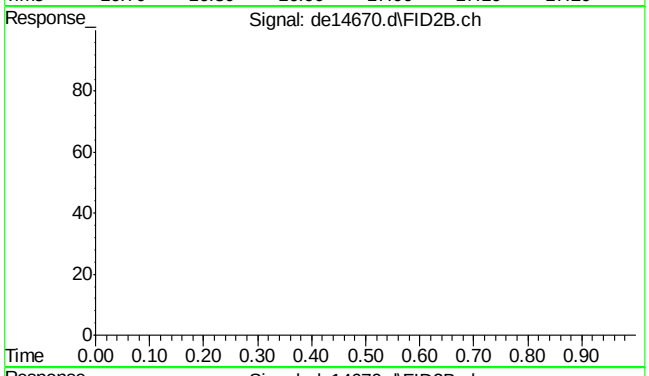
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3850472
Conc: 57.64 µg/ml



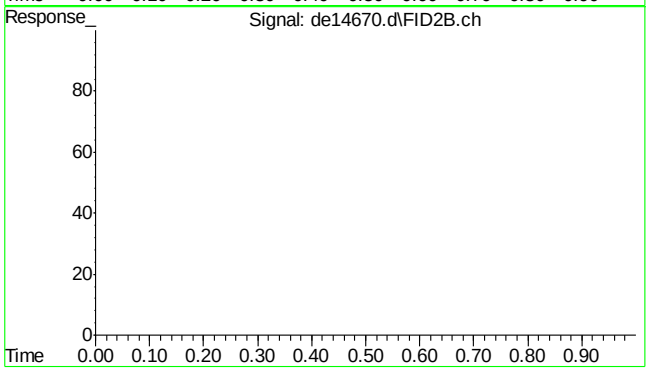
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3524293
Conc: 52.75 µg/ml m



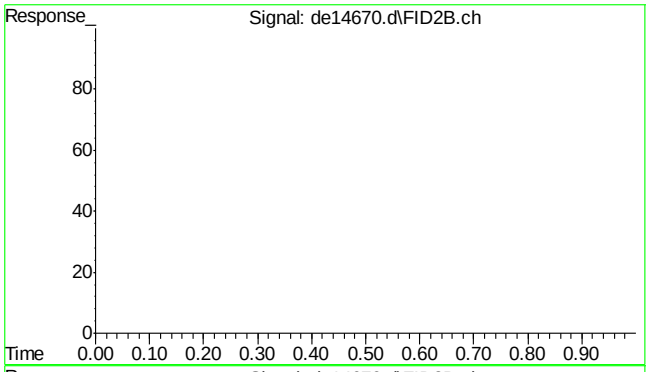
#42 bht

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



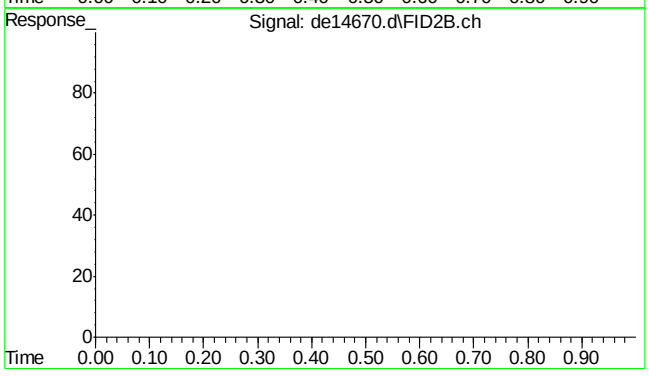
#43 bht

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



#44 bht

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



#45 bht

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

9.4.5

9

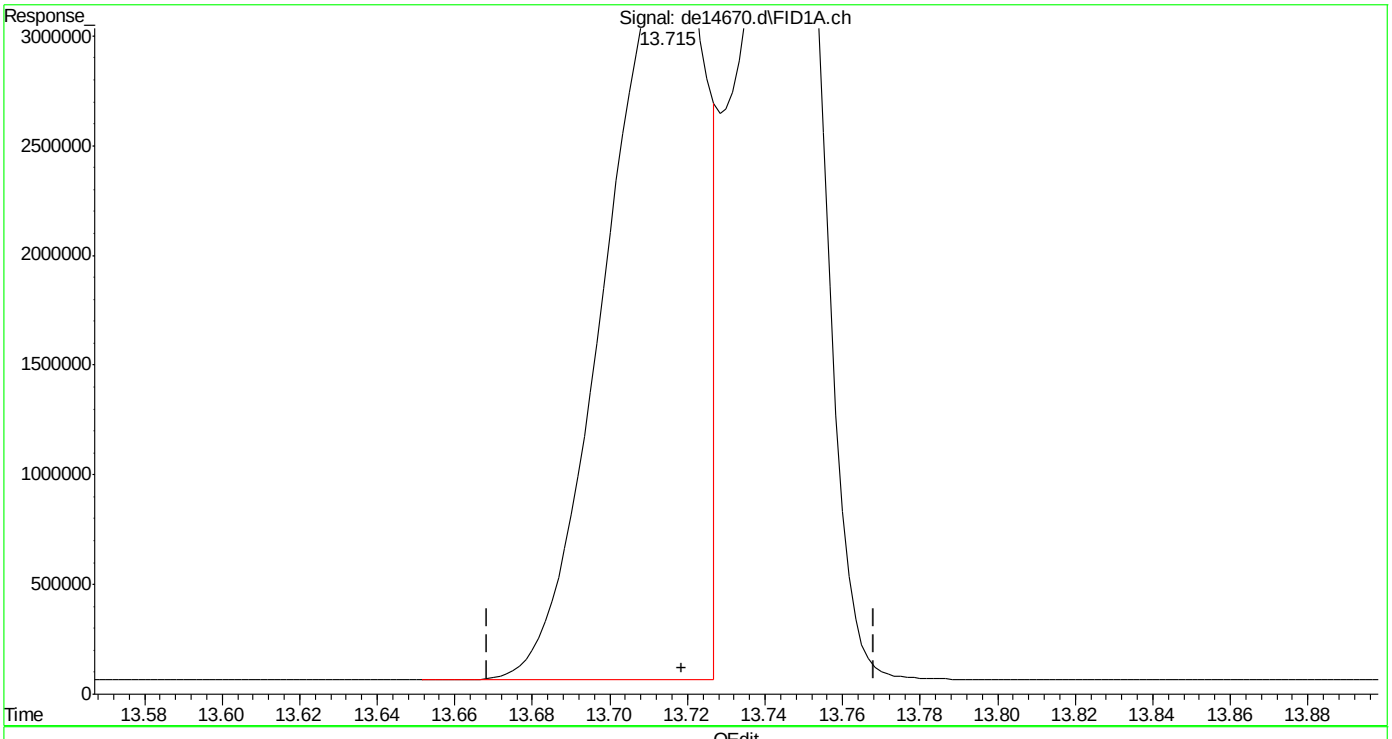
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
13.715min 60.781 µg/ml
response 6017485

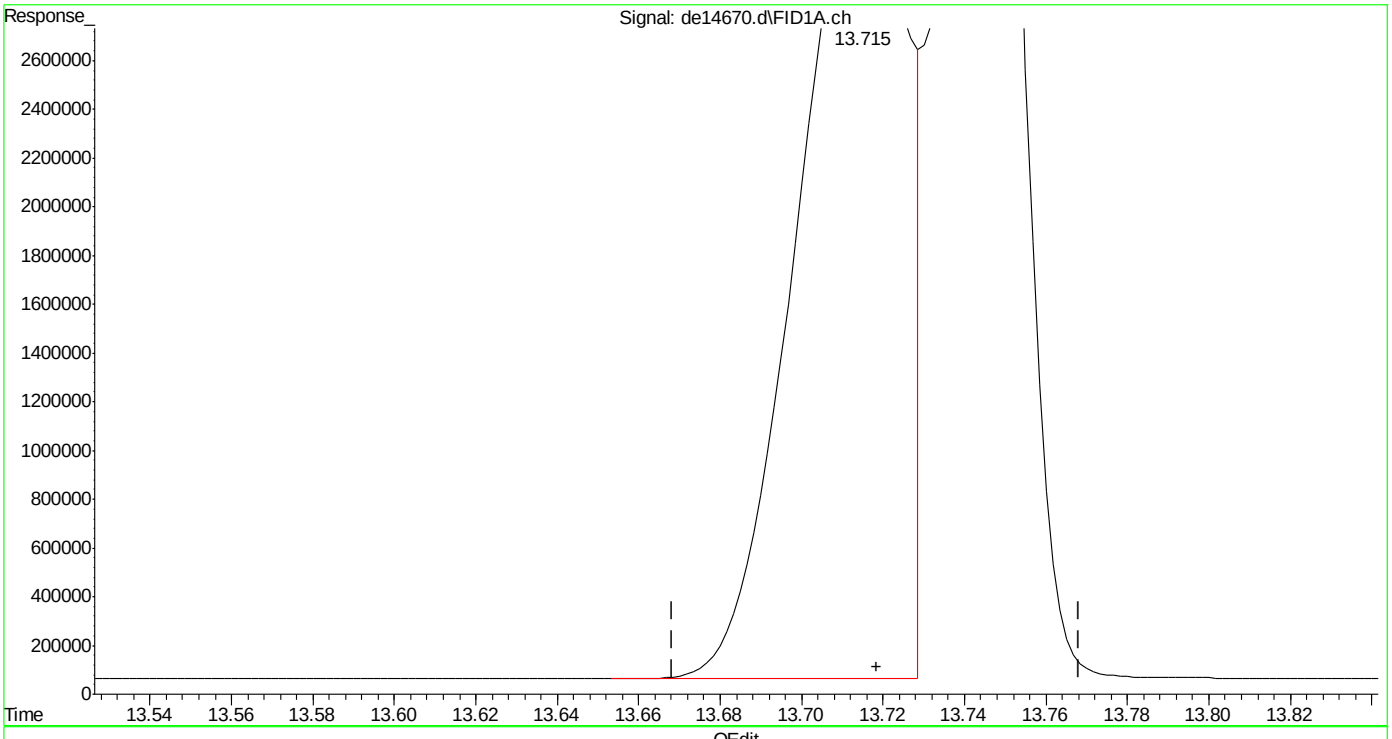
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
13.715min 63.392 µg/ml m
response 6276008

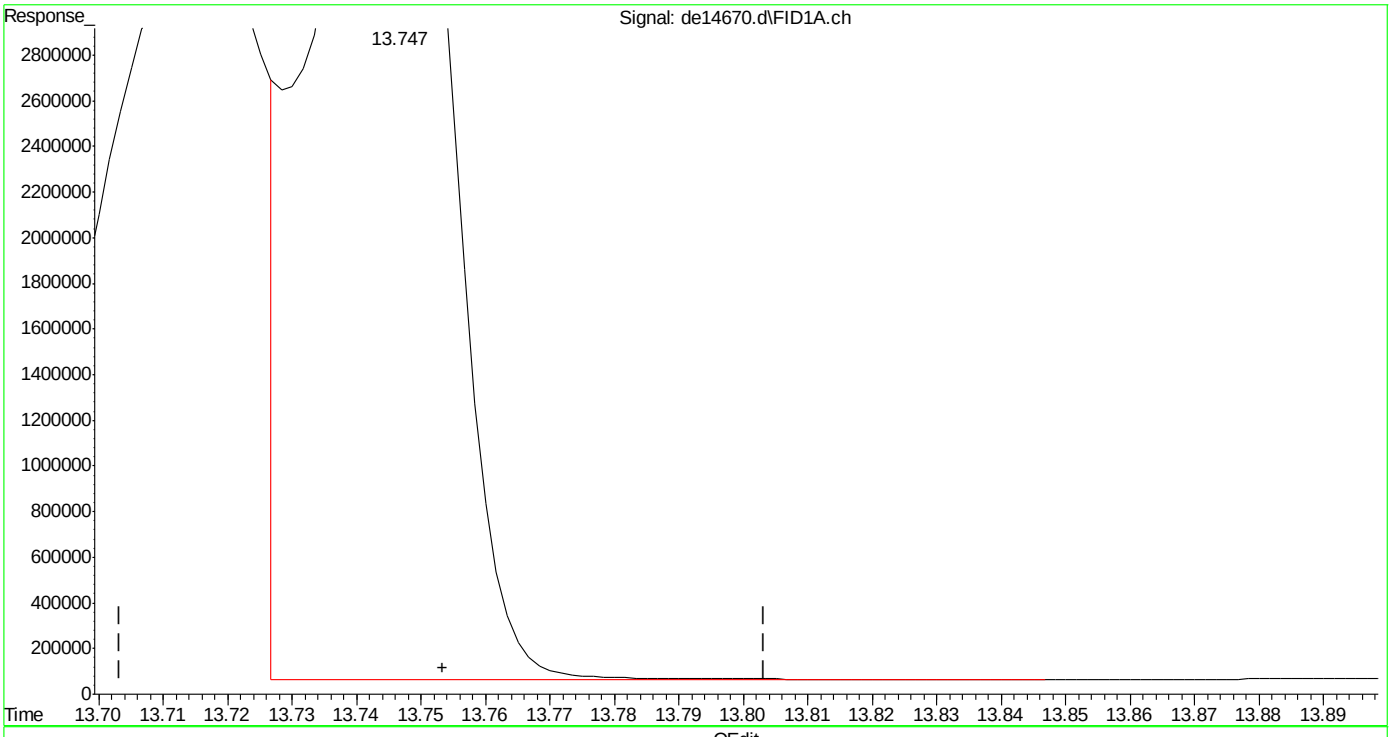
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
13.747min 69.378 µg/ml
response 6556409

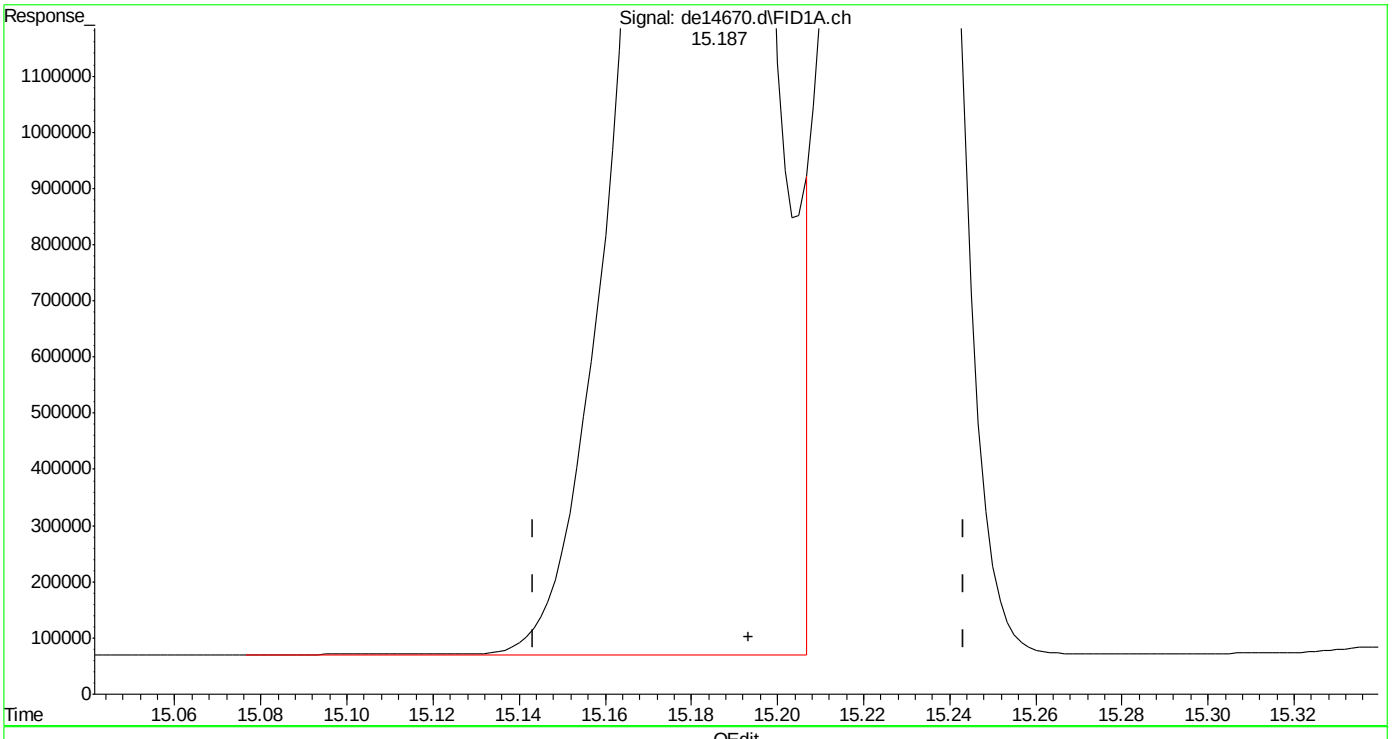
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:46:01 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
15.187min 64.835 µg/ml
response 6137190

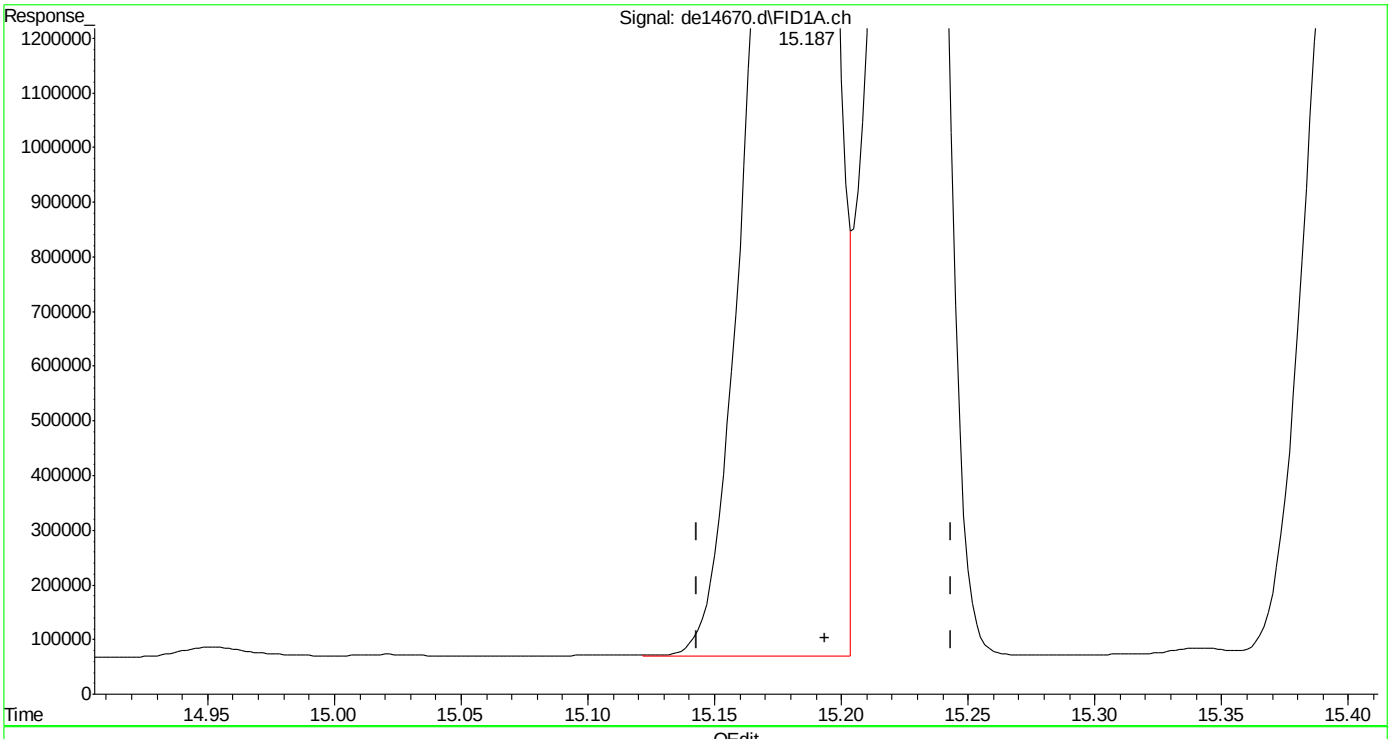
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:46:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
15.187min 63.095 µg/ml m
response 5972476

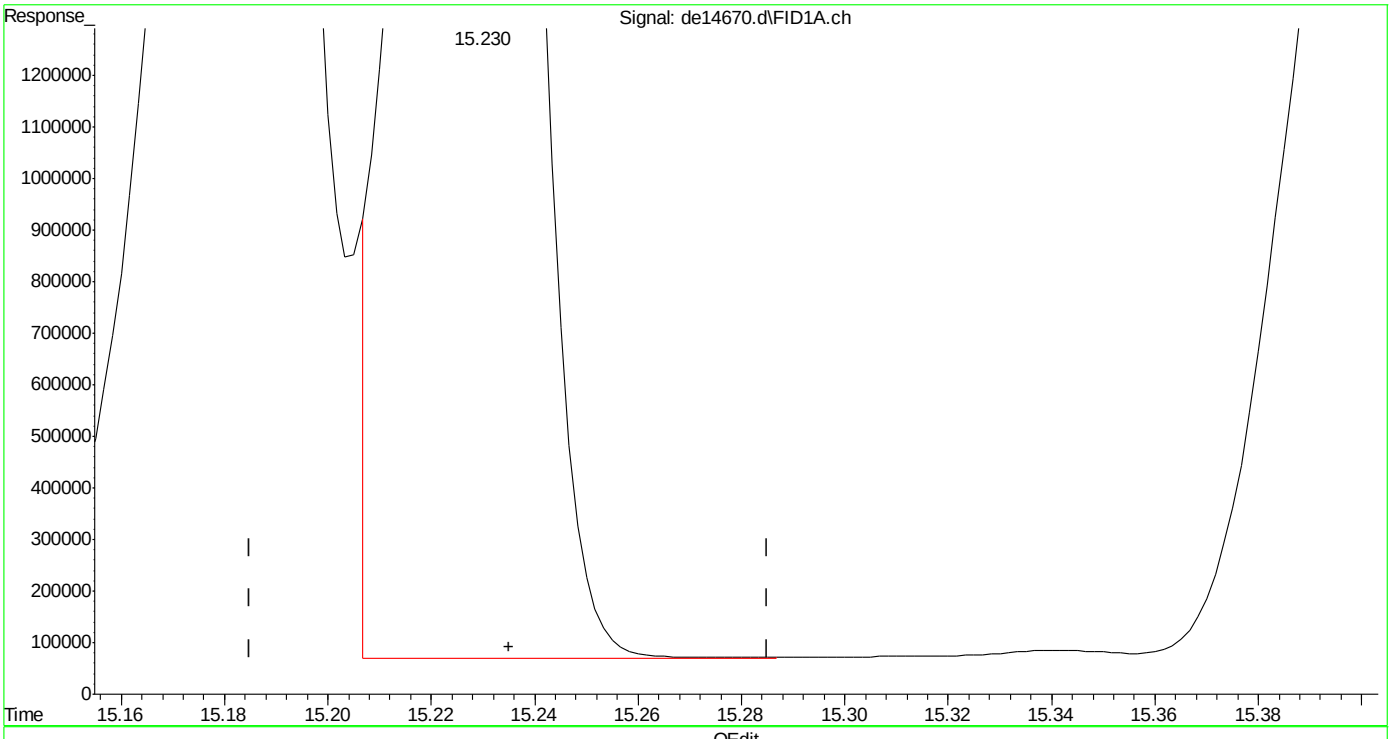
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
15.230min 61.689 µg/ml
response 5638284

(+) = Expected Retention Time

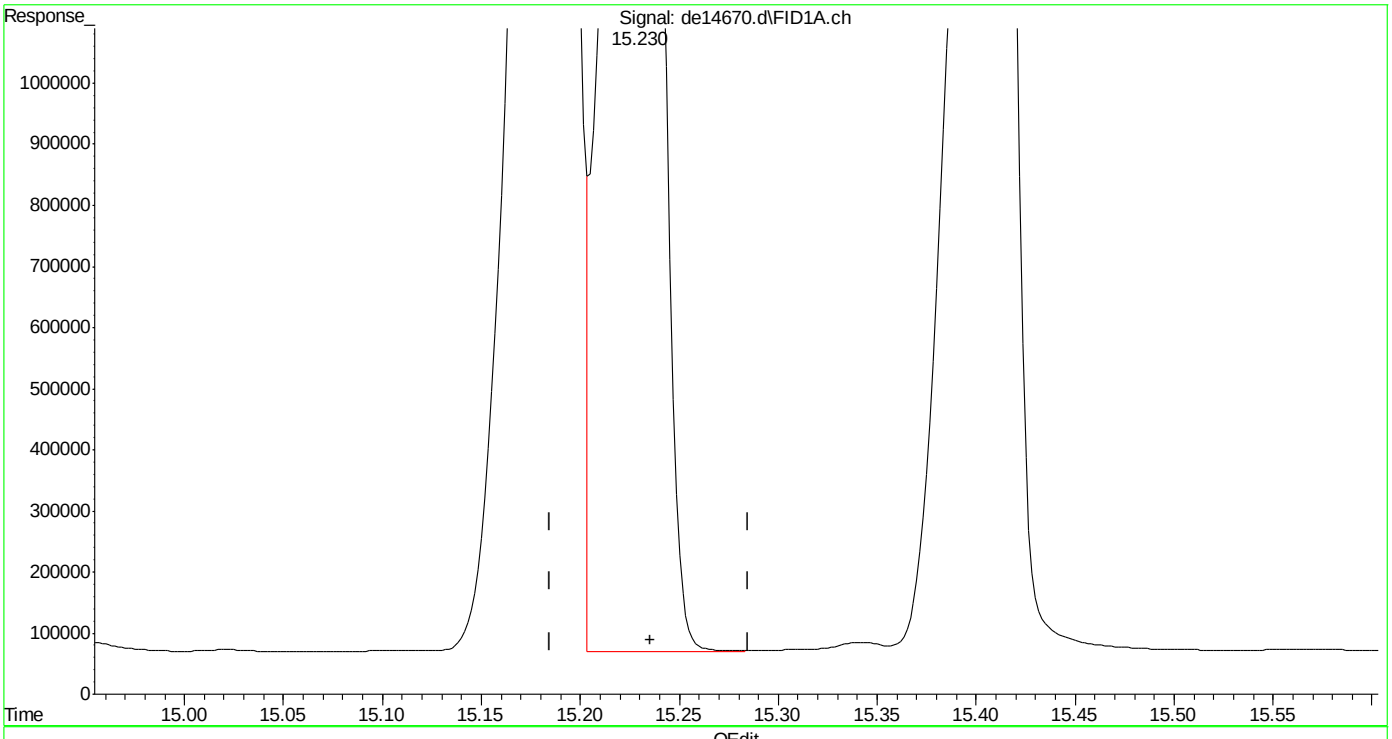
EPH160622W.M Thu Jun 23 07:46:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14670.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:08 pm
Operator : thomasa
Sample : icc815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 110 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:44:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Wed Jun 22 16:21:57 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
15.230min 63.481 µg/ml m
response 5802054

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:47:05 2016

Page: 1

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : ic815-100 (Sig #1); cc815-100 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:58:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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	6.488	10731985	98.609 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 493.04%#	
6) s 2-bromonaphthalene	7.212	7308924	107.707 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 538.53%#	
11) s o-terphenyl	9.752	12101379	96.382 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 481.91%#	
35) s 1-chlorooctadecane	11.220	6055700	96.667 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 483.34%#	
Target Compounds			
2) naphthalene	5.030	11983627	100.108 µg/ml
3) 2-methylnaphthalene	5.932	11763665	97.767 µg/ml
5) acenaphthylene	7.045	11745266	97.684 µg/ml
7) acenaphthene	7.288	12324034	93.153 µg/ml
8) fluorene	7.932	12025206	98.790 µg/ml
9) phenanthrene	9.108	12085999	102.391 µg/ml
10) anthracene	9.167	11487748	90.765 µg/ml
12) fluoranthene	10.610	11886285	97.833 µg/ml
13) pyrene	10.865	12197688	98.014 µg/ml
14) benzo(a)anthracene	12.428	11507490	99.885 µg/mlm
15) chrysene	12.480	11612003	95.708 µg/mlm
16) benzo(B)fluoranthene	13.722	12199538	109.244 µg/ml
17) benzo(k)fluoranthene	13.762	10965306	89.712 µg/ml
18) benzo(a)pyrene	14.060	10999807	98.011 µg/ml
19) indeno(1,2,3-cd)pyrene	15.197	11203362	101.798 µg/mlm
20) dibenzo(ah)anthracene	15.247	10503451	96.371 µg/mlm
21) benzo(ghi)perylene	15.427	10703286	99.223 µg/ml
25) h c-9	2.647	7937669	93.634 µg/mlm
26) h c-10	3.800	8047408	93.818 µg/ml
27) naphthalene #2	5.483	8501971	97.041 µg/ml
28) c-12	5.660	7886242	93.406 µg/ml
29) 2-methylnaphthalene #2	6.377	8454340	97.490 µg/ml
30) c-14	7.177	7814489	92.387 µg/ml
31) c-16	8.507	7764221	91.261 µg/ml
32) c-18	9.700	7676676	91.862 µg/ml
33) c-19	10.257	7623083	91.852 µg/ml
34) c-20	10.787	7477882	93.056 µg/ml
36) c-22	11.782	7420088	92.896 µg/ml
37) c-24	12.700	6931545	91.371 µg/ml
38) c-26	13.552	7429512	93.658 µg/ml

SGS ACCUTEST MC46423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : ic815-100 (Sig #1); cc815-100 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:58:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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	14.343	7155151	94.261 µg/ml
40) h	c-30	15.082	7181147	87.303 µg/ml
41) h	c-36	16.983	6572820	97.240 µg/mlm

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

9.4.6

9

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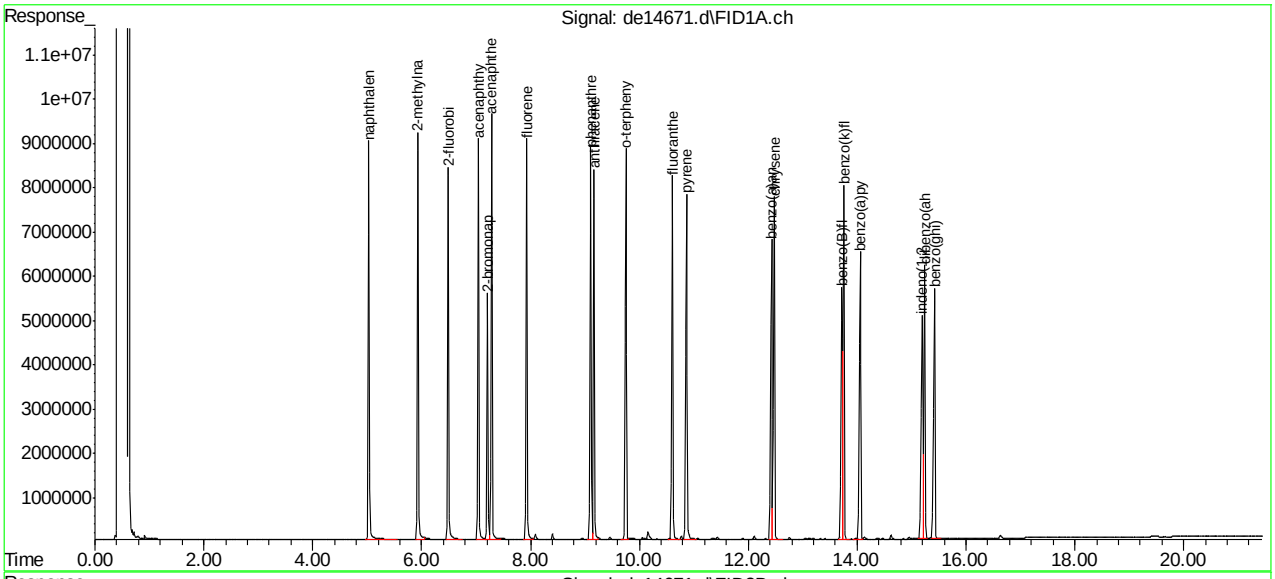
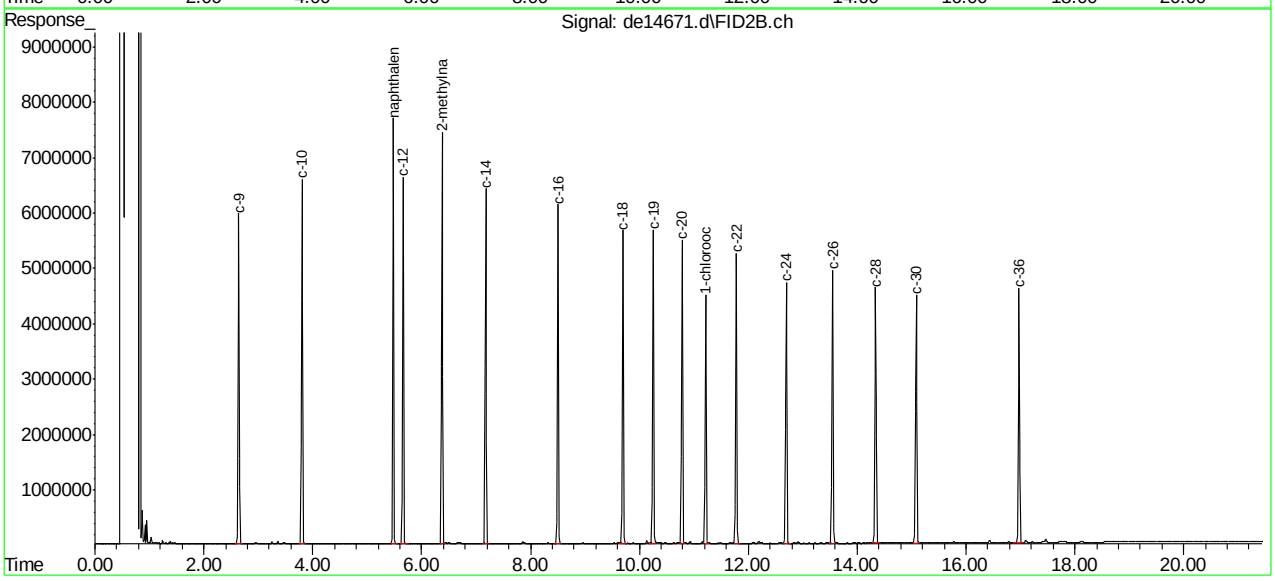
Quantitation Report (QT Reviewed)

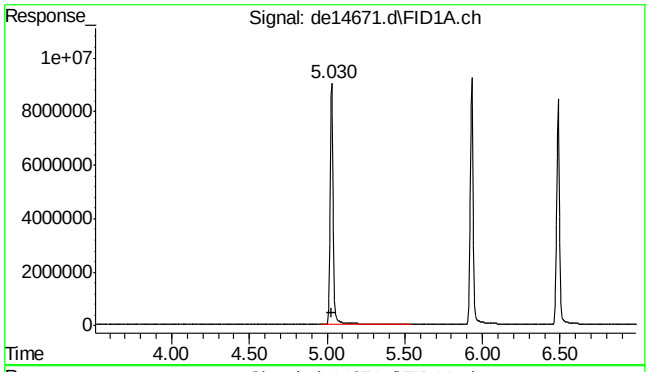
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : ic815-100 (Sig #1); cc815-100 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:58:39 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 2016
Response via : Initial Calibration
Integrator: RTE

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

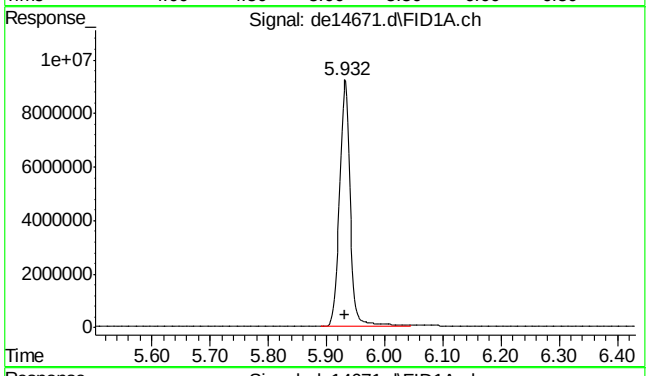






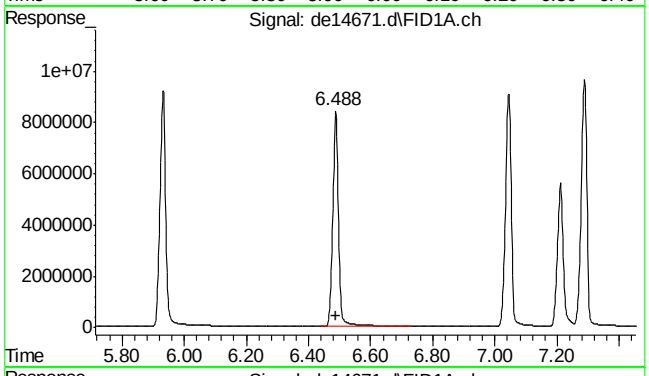
#2 naphthalene

R.T.: 5.030 min
Delta R.T.: 0.000 min
Response: 11983627
Conc: 100.11 µg/ml



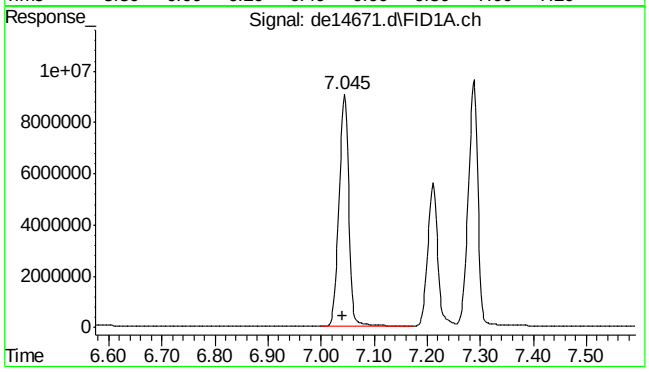
#3 2-methylnaphthalene

R.T.: 5.932 min
Delta R.T.: 0.000 min
Response: 11763665
Conc: 97.77 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.488 min
Delta R.T.: 0.000 min
Response: 10731985
Conc: 98.61 µg/ml



#5 acenaphthylene

R.T.: 7.045 min
Delta R.T.: 0.003 min
Response: 11745266
Conc: 97.68 µg/ml

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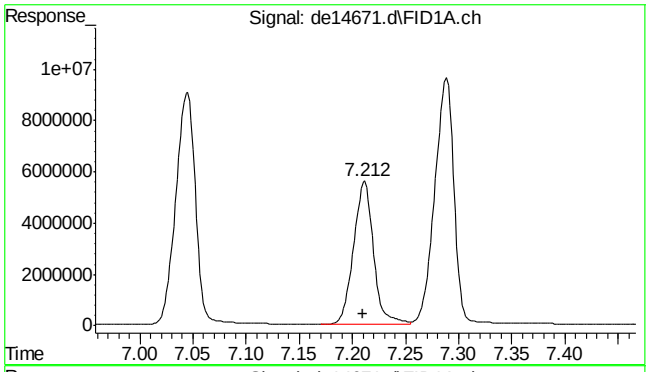
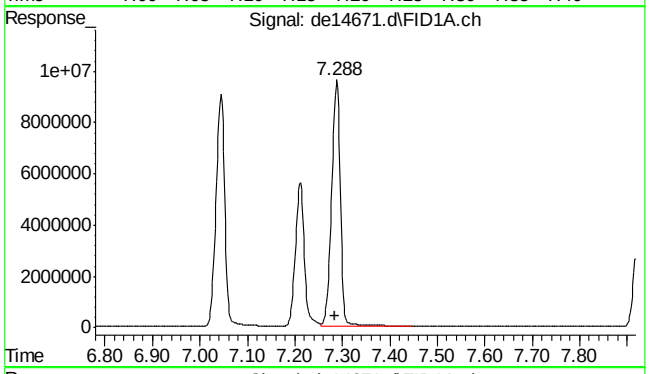


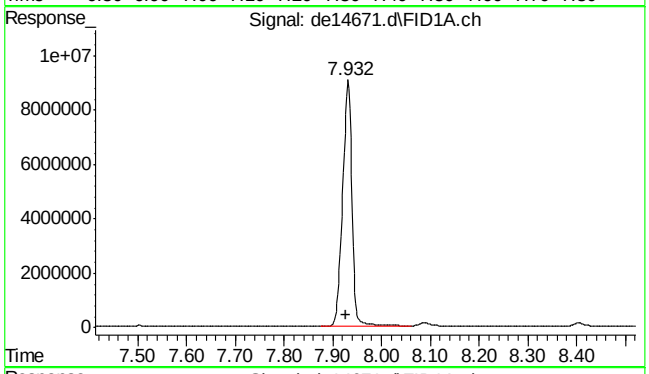
#6 2-bromonaphthalene

R.T.: 7.212 min
Delta R.T.: 0.002 min
Response: 7308924
Conc: 107.71 µg/ml



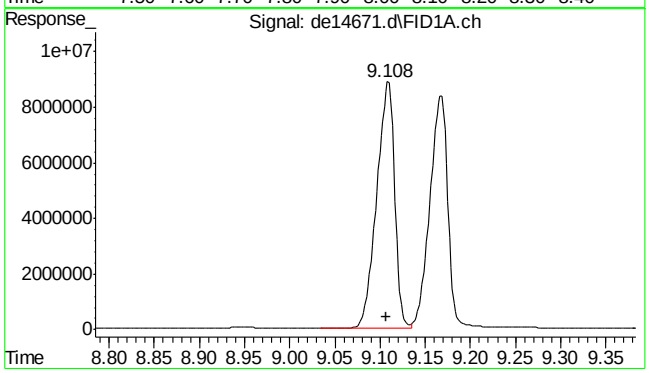
#7 acenaphthene

R.T.: 7.288 min
Delta R.T.: 0.003 min
Response: 12324034
Conc: 93.15 µg/ml



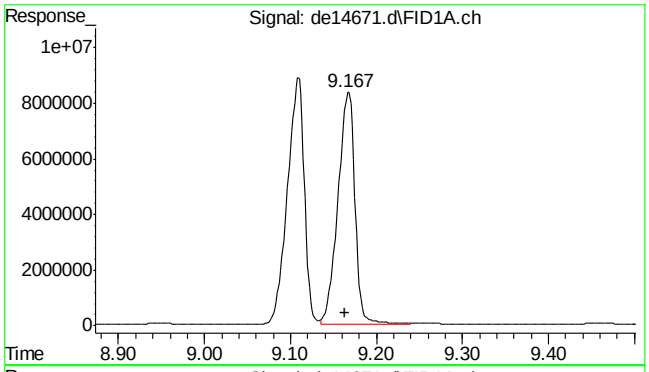
#8 fluorene

R.T.: 7.932 min
Delta R.T.: 0.003 min
Response: 12025206
Conc: 98.79 µg/ml



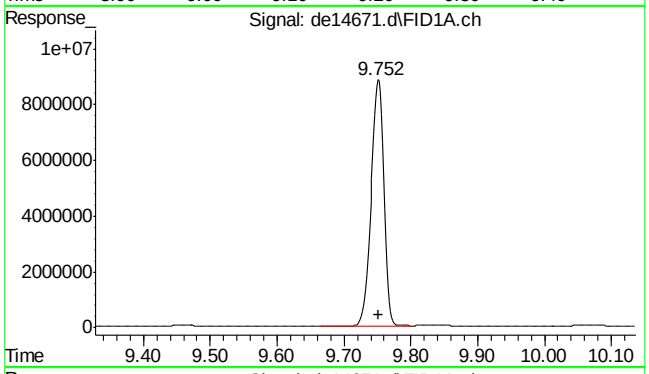
#9 phenanthrene

R.T.: 9.108 min
Delta R.T.: 0.002 min
Response: 12085999
Conc: 102.39 µg/ml



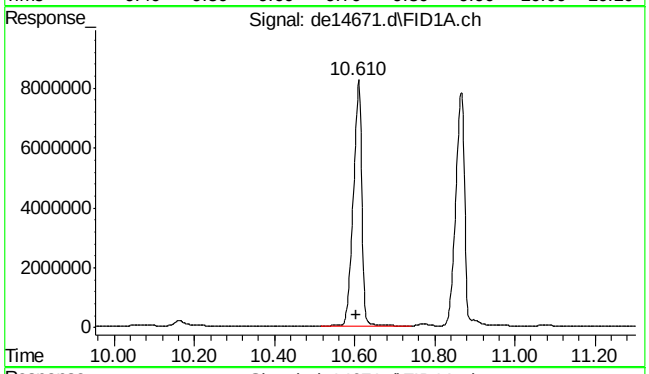
#10 anthracene

R.T.: 9.167 min
Delta R.T.: 0.003 min
Response: 11487748
Conc: 90.76 µg/ml



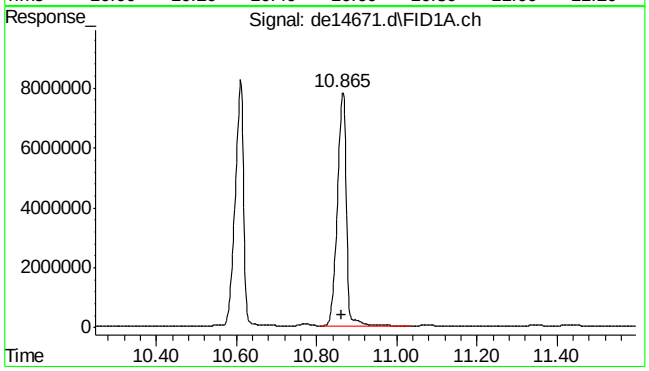
#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: 0.000 min
Response: 12101379
Conc: 96.38 µg/ml



#12 fluoranthene

R.T.: 10.610 min
Delta R.T.: 0.005 min
Response: 11886285
Conc: 97.83 µg/ml



#13 pyrene

R.T.: 10.865 min
Delta R.T.: 0.003 min
Response: 12197688
Conc: 98.01 µg/ml

9.4.6

9

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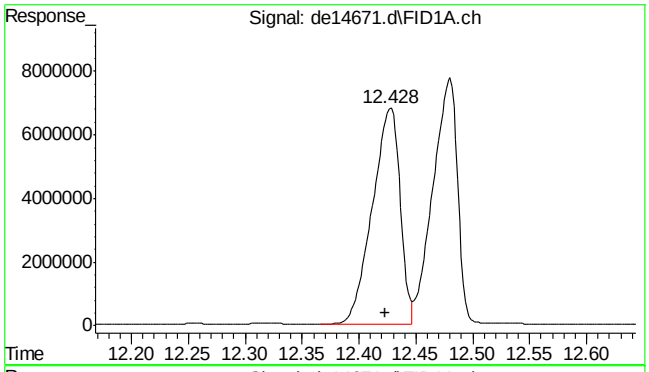
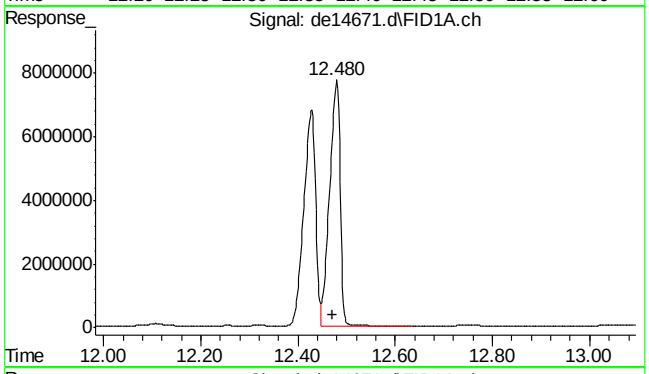


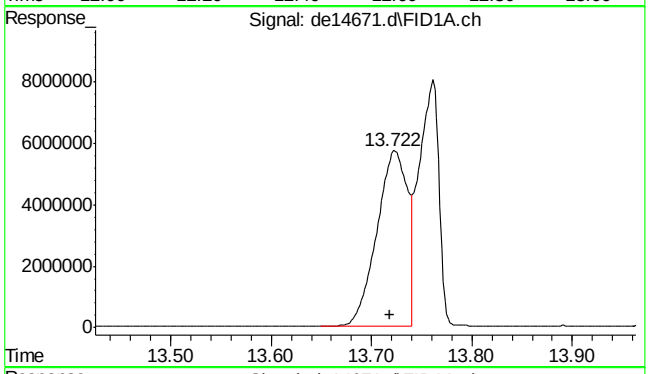
#14 benzo(a)anthracene

R.T.: 12.428 min
Delta R.T.: 0.005 min
Response: 11507490
Conc: 99.89 µg/ml m



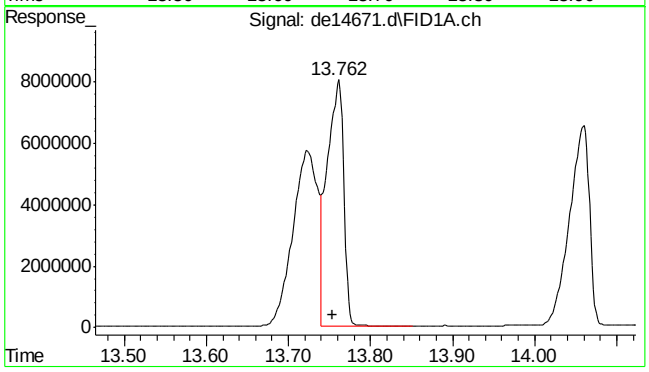
#15 chrysene

R.T.: 12.480 min
Delta R.T.: 0.008 min
Response: 11612003
Conc: 95.71 µg/ml m



#16 benzo(B)fluoranthene

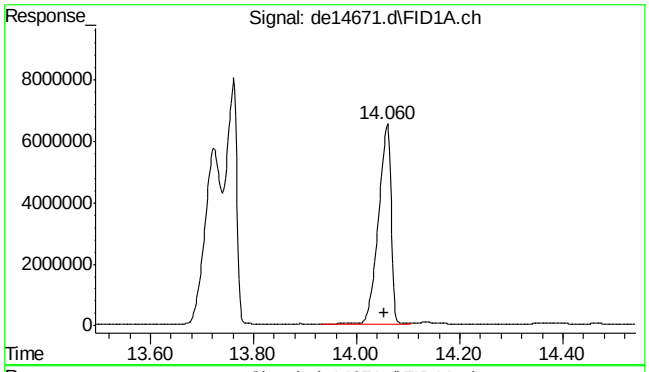
R.T.: 13.722 min
Delta R.T.: 0.003 min
Response: 12199538
Conc: 109.24 µg/ml



#17 benzo(k)fluoranthene

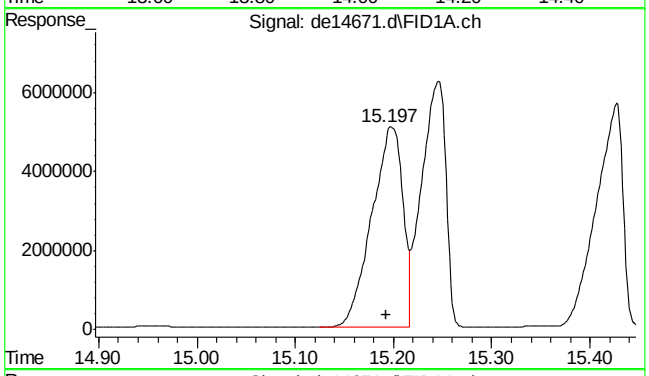
R.T.: 13.762 min
Delta R.T.: 0.008 min
Response: 10965306
Conc: 89.71 µg/ml

SGS ACCUTEST MC46423



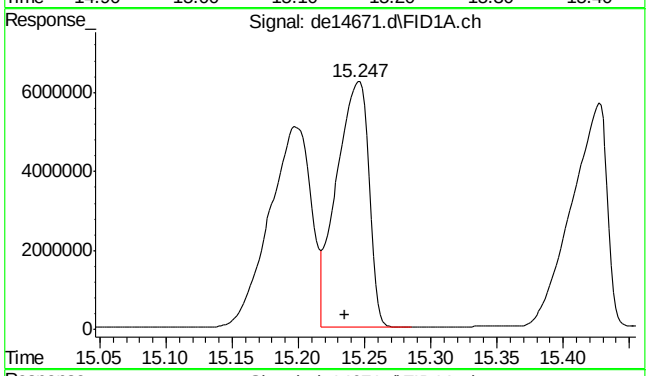
#18 benzo(a)pyrene

R.T.: 14.060 min
Delta R.T.: 0.007 min
Response: 10999807
Conc: 98.01 µg/ml



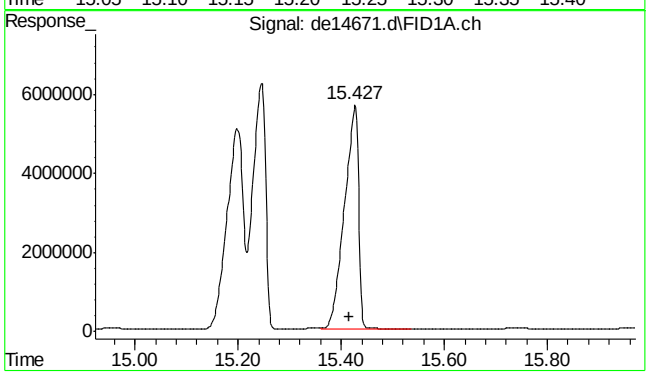
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.197 min
Delta R.T.: 0.003 min
Response: 11203362
Conc: 101.80 µg/ml m



#20 dibenzo(ah)anthracene

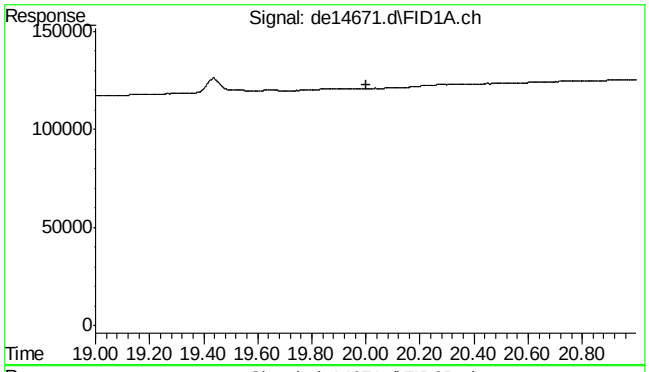
R.T.: 15.247 min
Delta R.T.: 0.012 min
Response: 10503451
Conc: 96.37 µg/ml m



#21 benzo(ghi)perylene

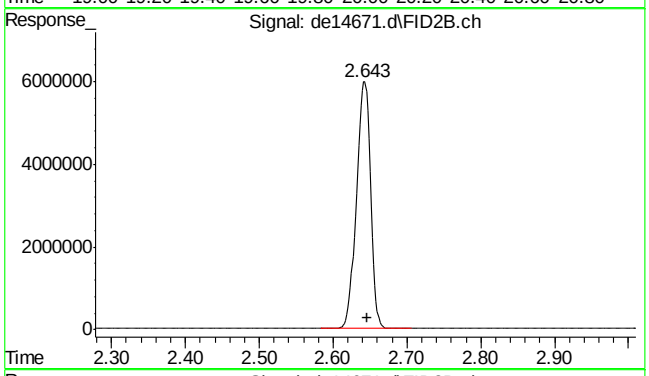
R.T.: 15.427 min
Delta R.T.: 0.010 min
Response: 10703286
Conc: 99.22 µg/ml

SGS ACCUTEST MC46423



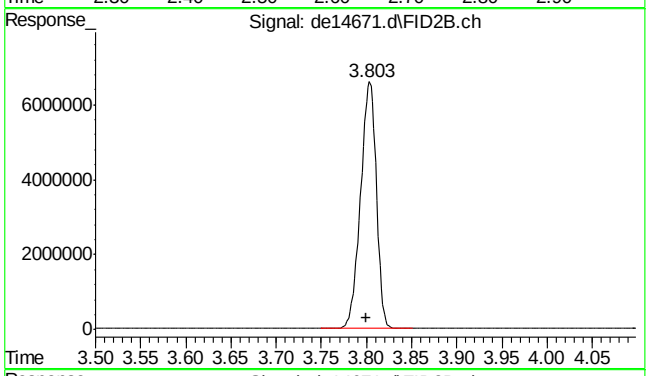
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



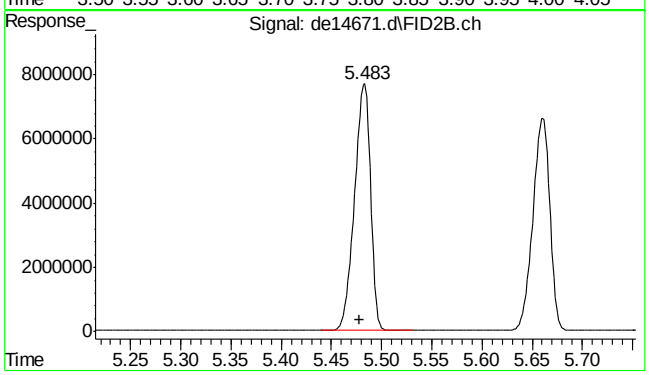
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 7937669
Conc: 93.63 µg/ml m



#26 c-10

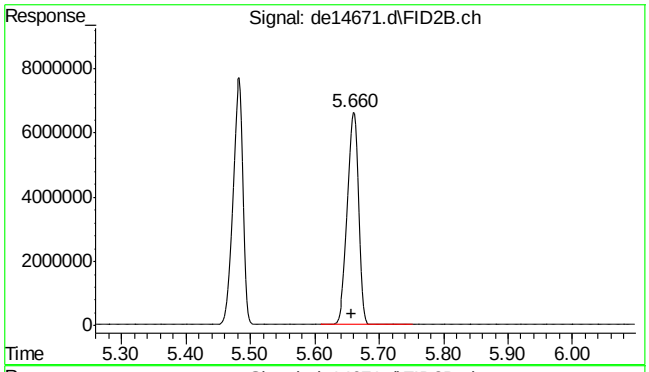
R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 8047408
Conc: 93.82 µg/ml



#27 naphthalene #2

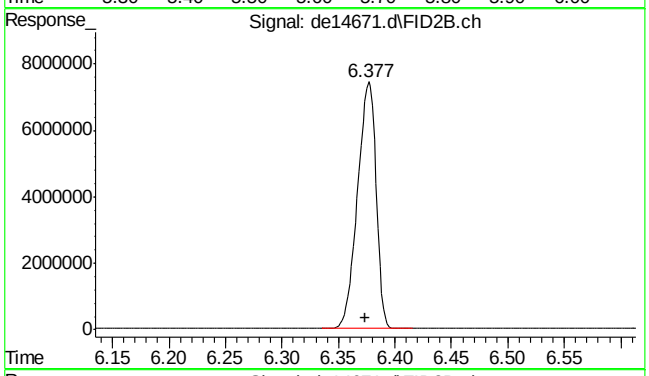
R.T.: 5.483 min
Delta R.T.: 0.005 min
Response: 8501971
Conc: 97.04 µg/ml

SGS ACCUTEST MC46423



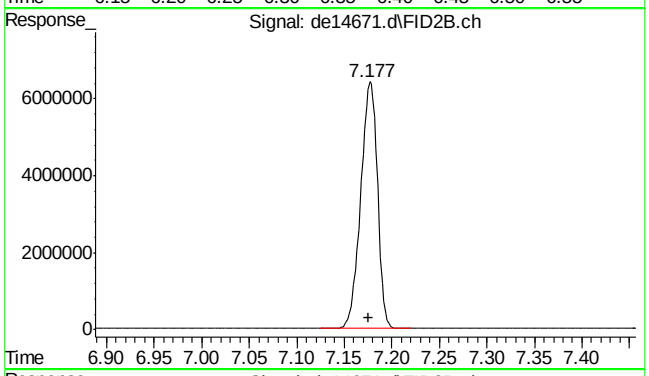
#28 c-12

R.T.: 5.660 min
Delta R.T.: 0.003 min
Response: 7886242
Conc: 93.41 µg/ml



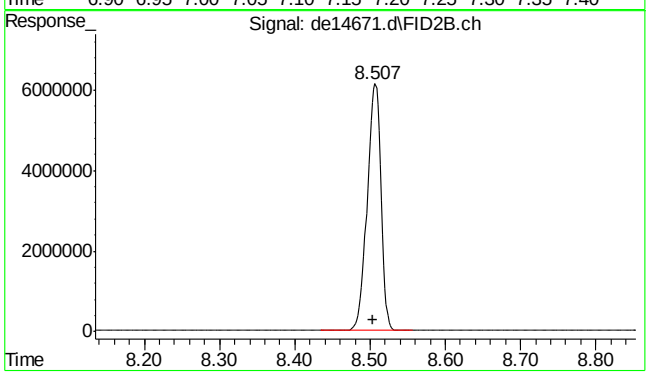
#29 2-methylnaphthalene #2

R.T.: 6.377 min
Delta R.T.: 0.003 min
Response: 8454340
Conc: 97.49 µg/ml



#30 c-14

R.T.: 7.177 min
Delta R.T.: 0.002 min
Response: 7814489
Conc: 92.39 µg/ml



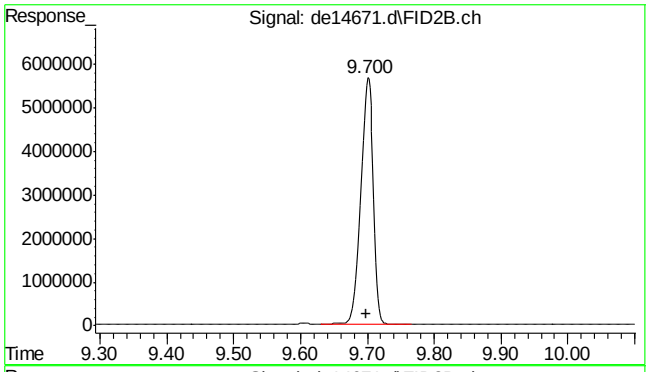
#31 c-16

R.T.: 8.507 min
Delta R.T.: 0.003 min
Response: 7764221
Conc: 91.26 µg/ml

9.4.6

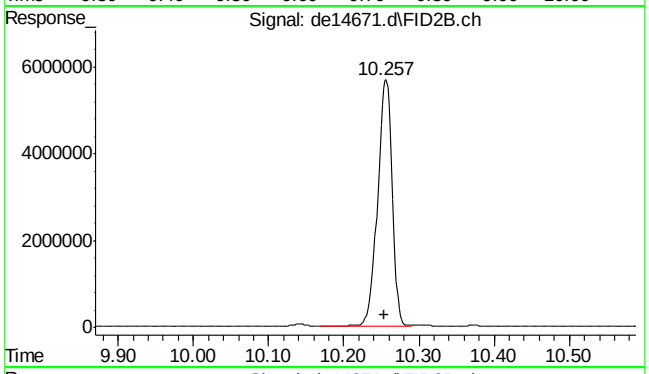
9

SGS ACCUTEST MC46423



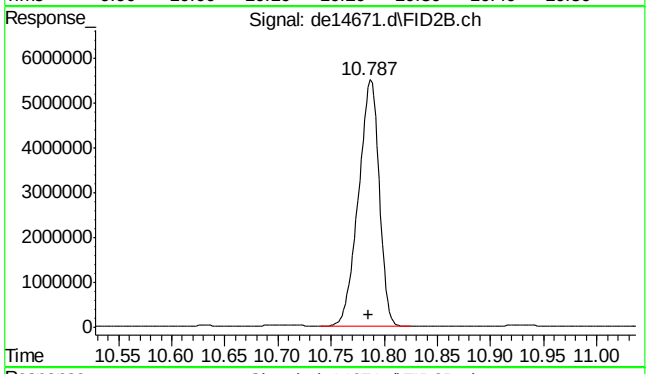
#32 c-18

R.T.: 9.700 min
Delta R.T.: 0.002 min
Response: 7676676
Conc: 91.86 µg/ml



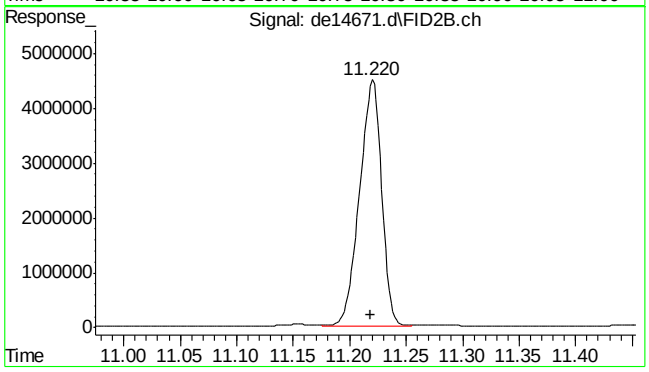
#33 c-19

R.T.: 10.257 min
Delta R.T.: 0.003 min
Response: 7623083
Conc: 91.85 µg/ml



#34 c-20

R.T.: 10.787 min
Delta R.T.: 0.002 min
Response: 7477882
Conc: 93.06 µg/ml



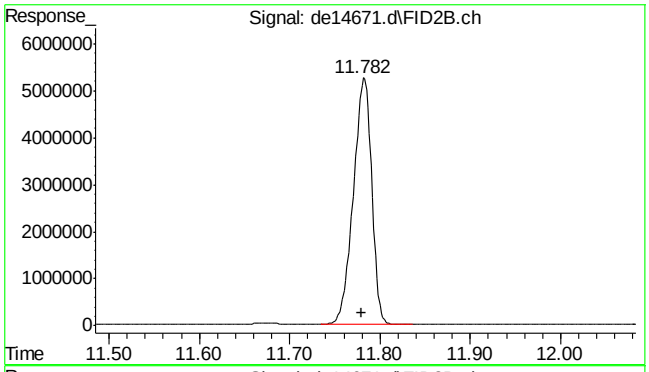
#35 1-chlorooctadecane

R.T.: 11.220 min
Delta R.T.: 0.002 min
Response: 6055700
Conc: 96.67 µg/ml

9.4.6

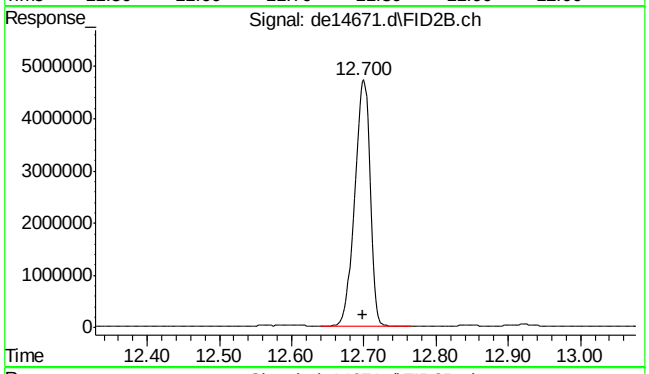
9

SGS ACCUTEST MC46423



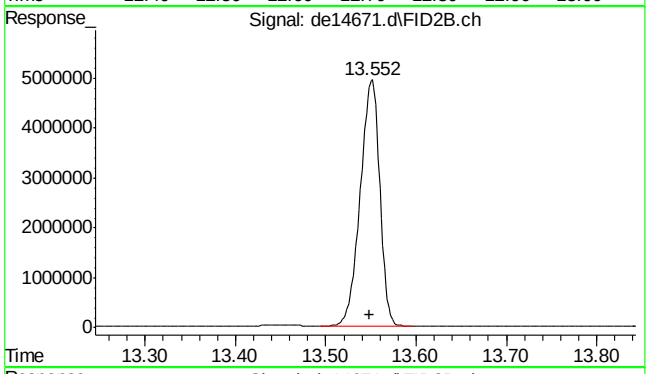
#36 c-22

R.T.: 11.782 min
Delta R.T.: 0.002 min
Response: 7420088
Conc: 92.90 µg/ml



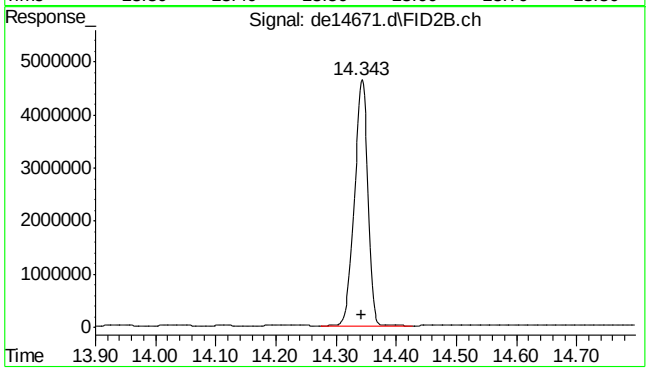
#37 c-24

R.T.: 12.700 min
Delta R.T.: 0.002 min
Response: 6931545
Conc: 91.37 µg/ml



#38 c-26

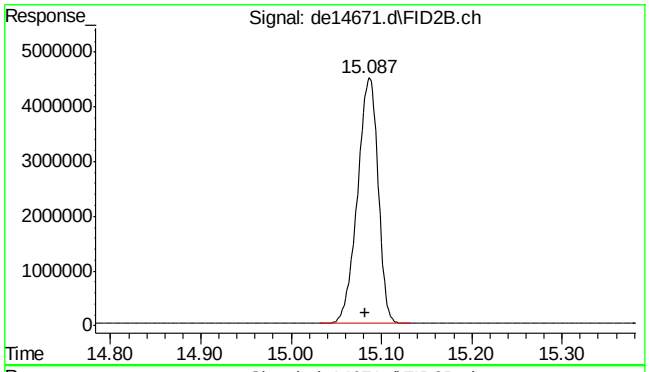
R.T.: 13.552 min
Delta R.T.: 0.003 min
Response: 7429512
Conc: 93.66 µg/ml



#39 c-28

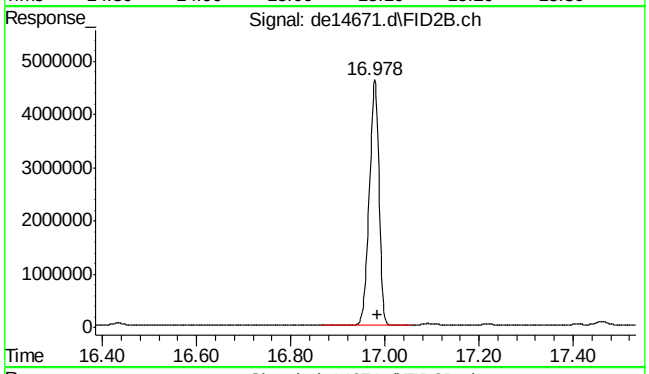
R.T.: 14.343 min
Delta R.T.: 0.000 min
Response: 7155151
Conc: 94.26 µg/ml

SGS ACCUTEST MC46423



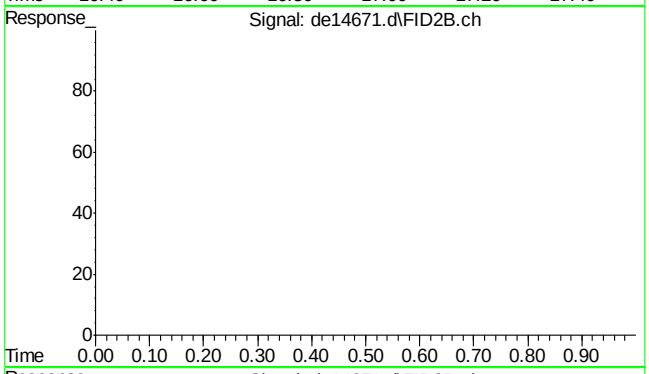
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 7181147
Conc: 87.30 µg/ml



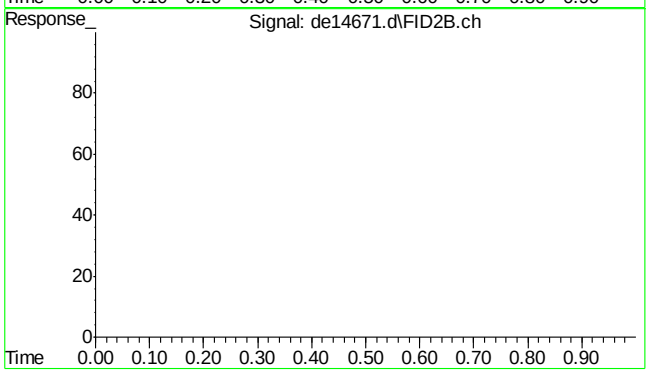
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 6572820
Conc: 97.24 µg/ml m



#42 bht

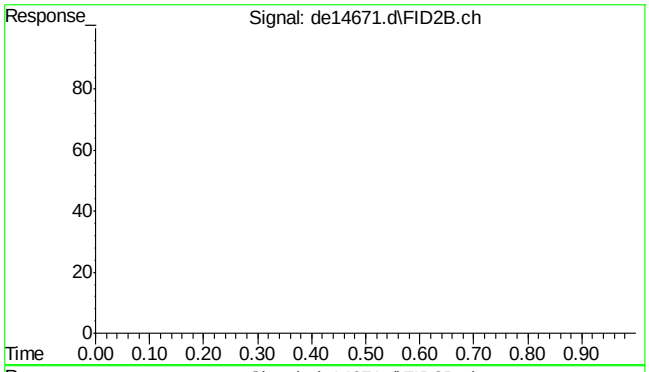
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

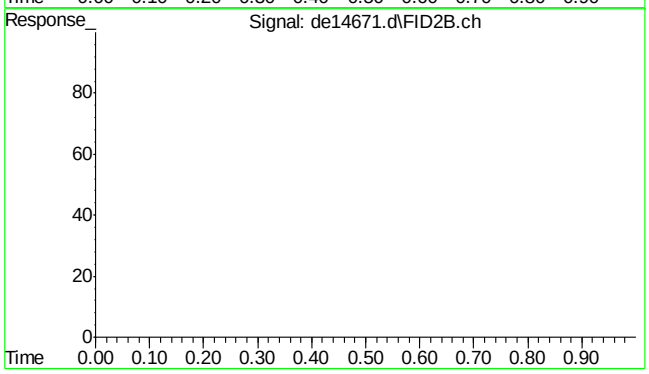
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#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.

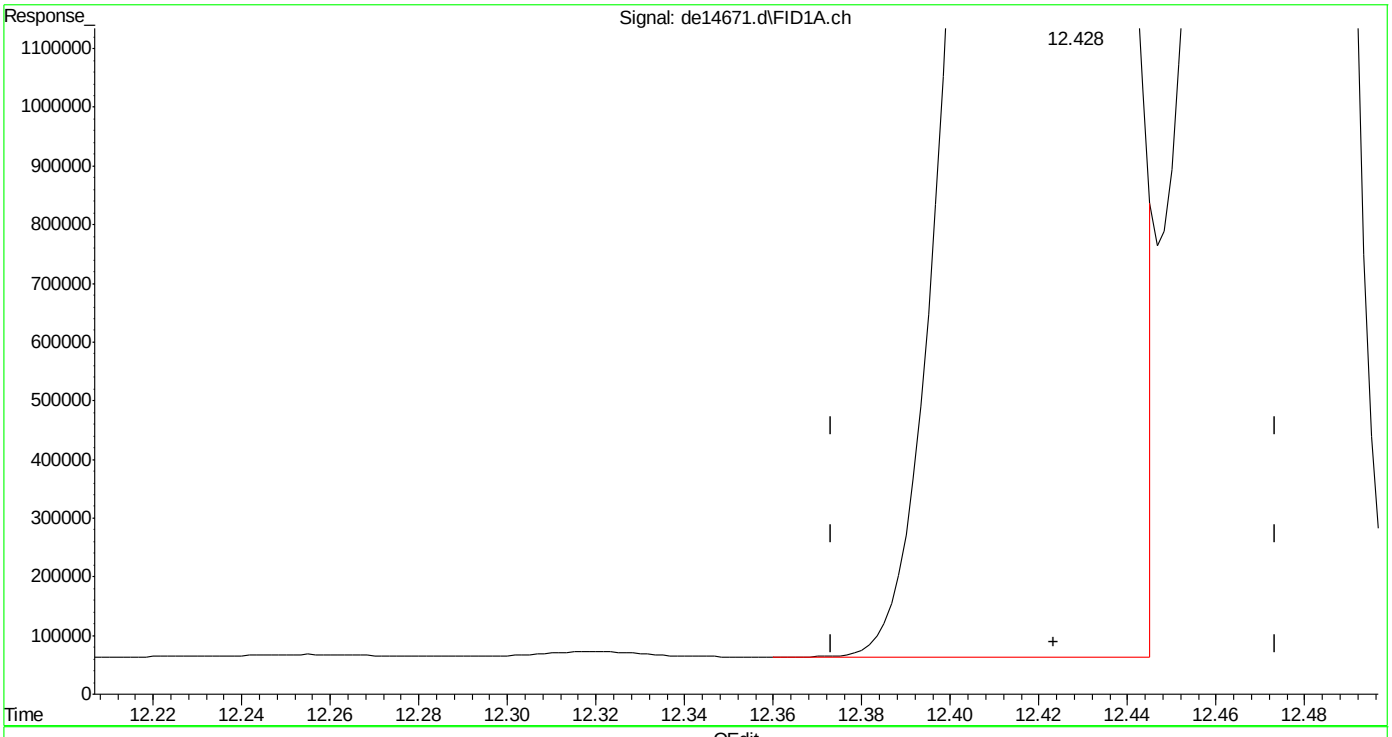
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
12.428min 99.281 µg/ml
response 11437844

(+) = Expected Retention Time

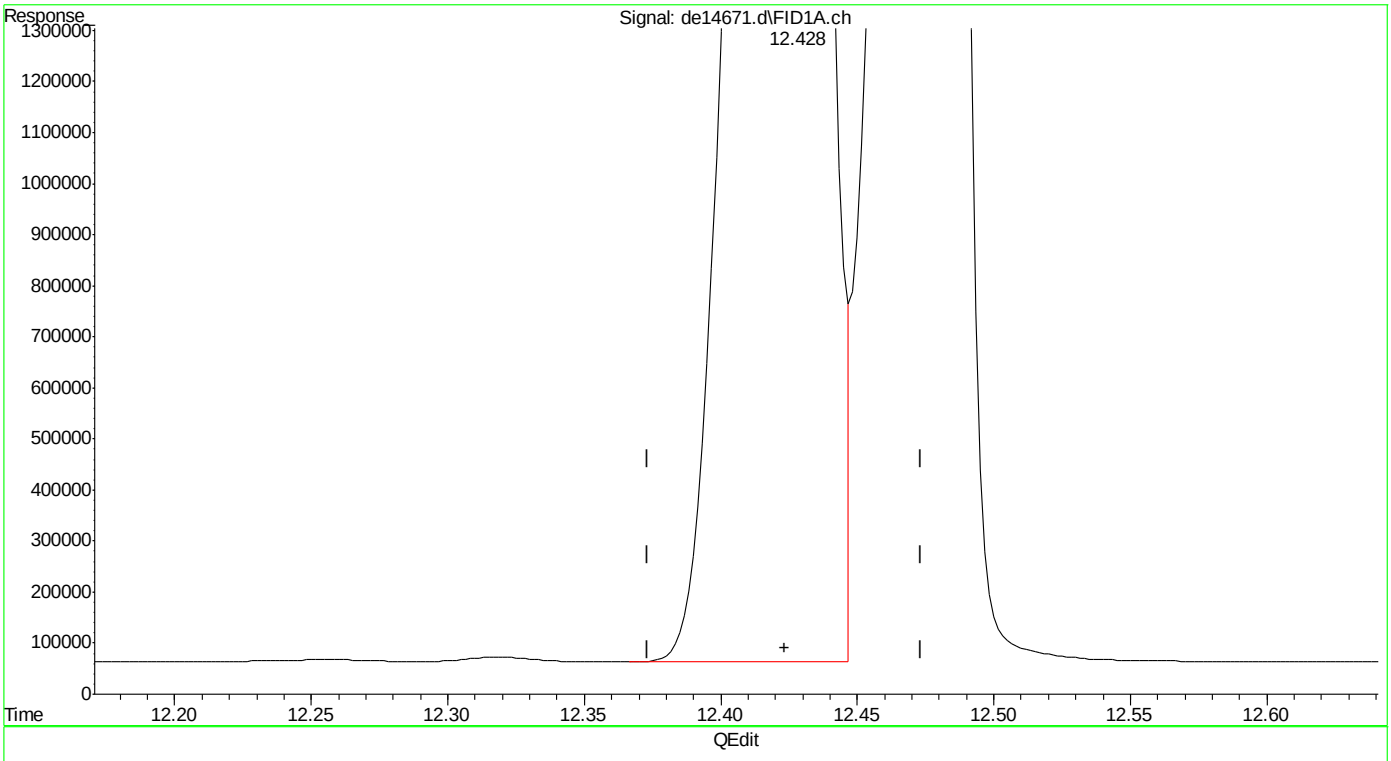
EPH160622W.M Thu Jun 23 07:56:54 2016 Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
12.428min 99.885 µg/ml m
response 11507490

(+) = Expected Retention Time

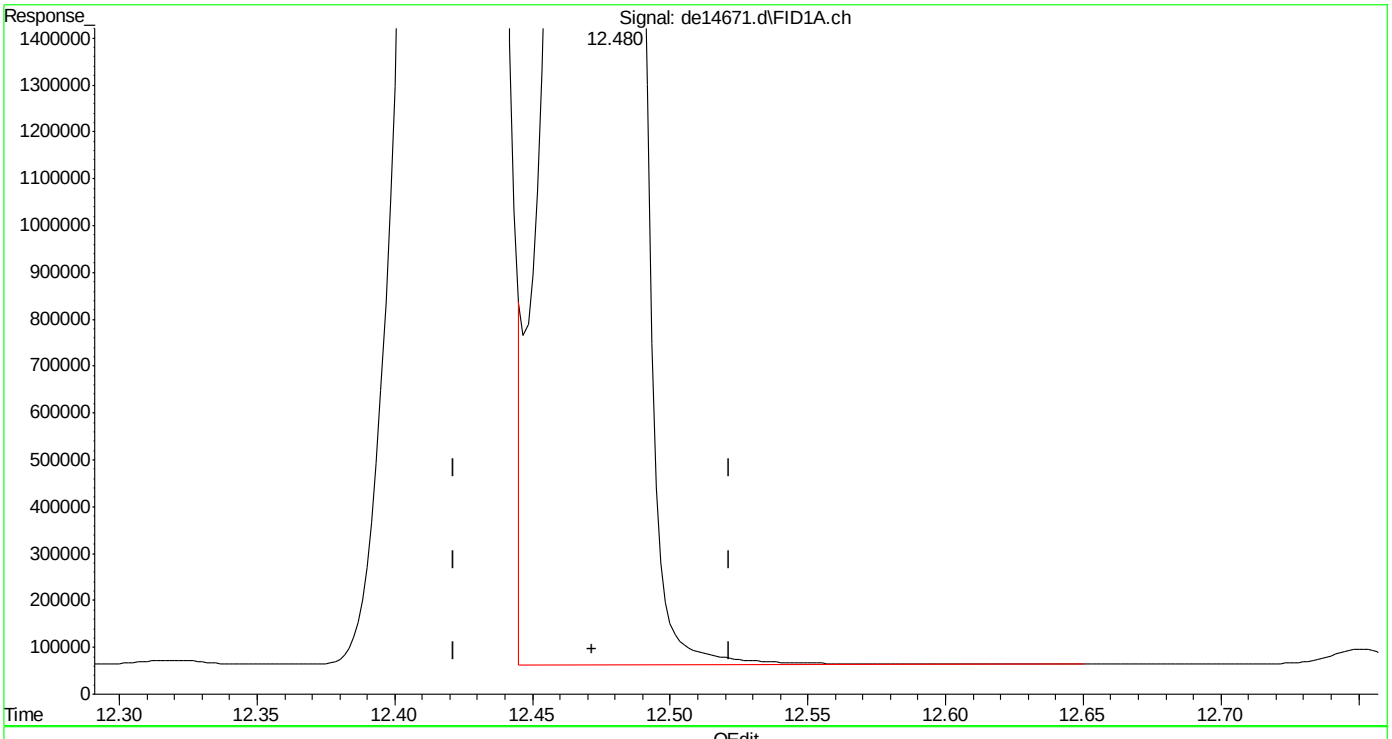
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.480min 96.301 µg/ml
response 11683884

(+) = Expected Retention Time

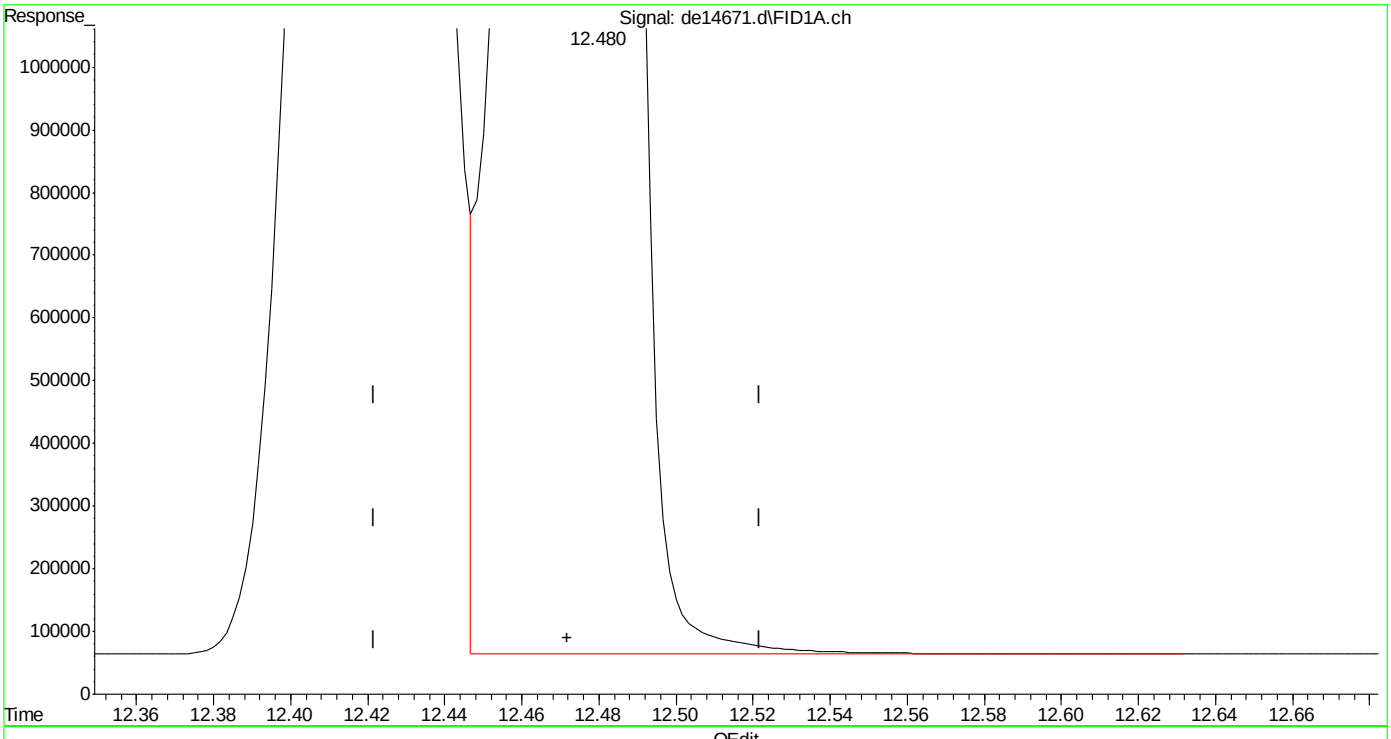
EPH160622W.M Thu Jun 23 07:57:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.480min 95.708 µg/ml m
response 11612003

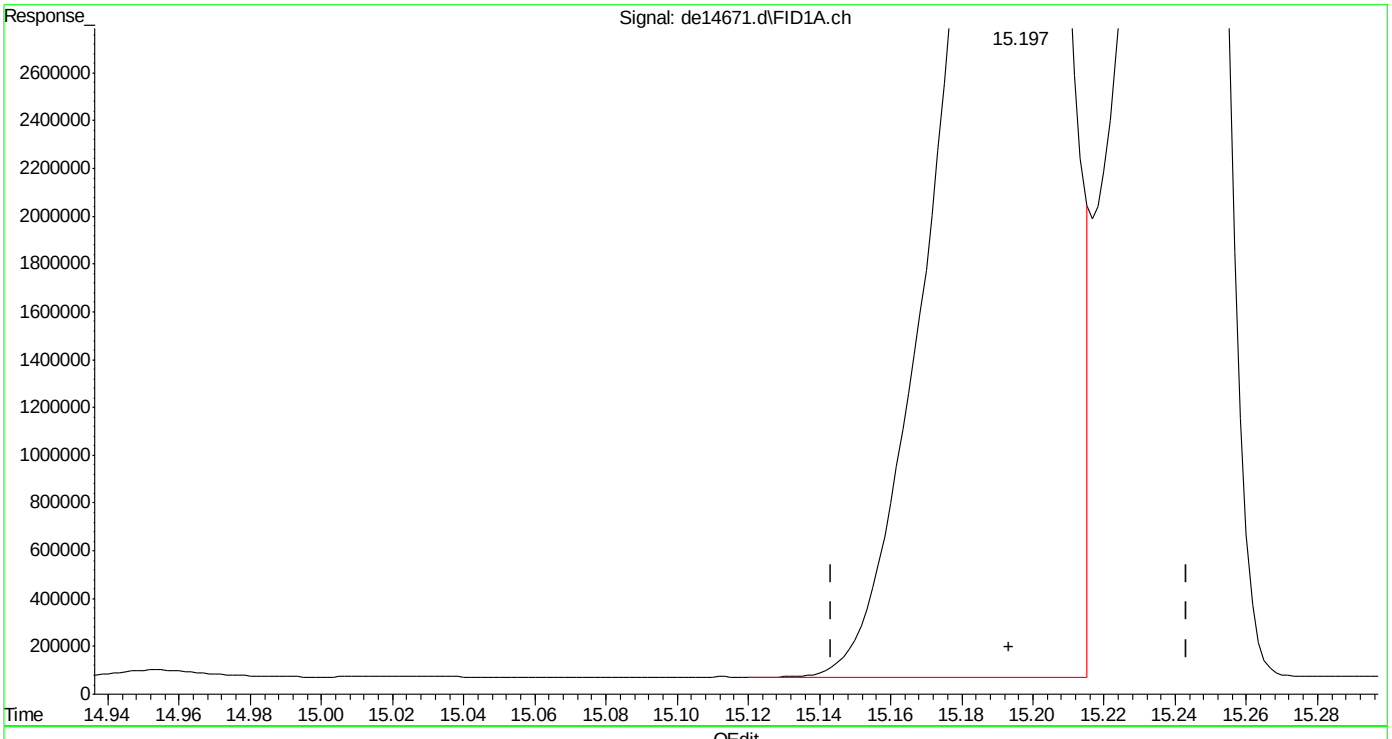
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:57:39 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
15.197min 100.041 µg/ml
response 11009953

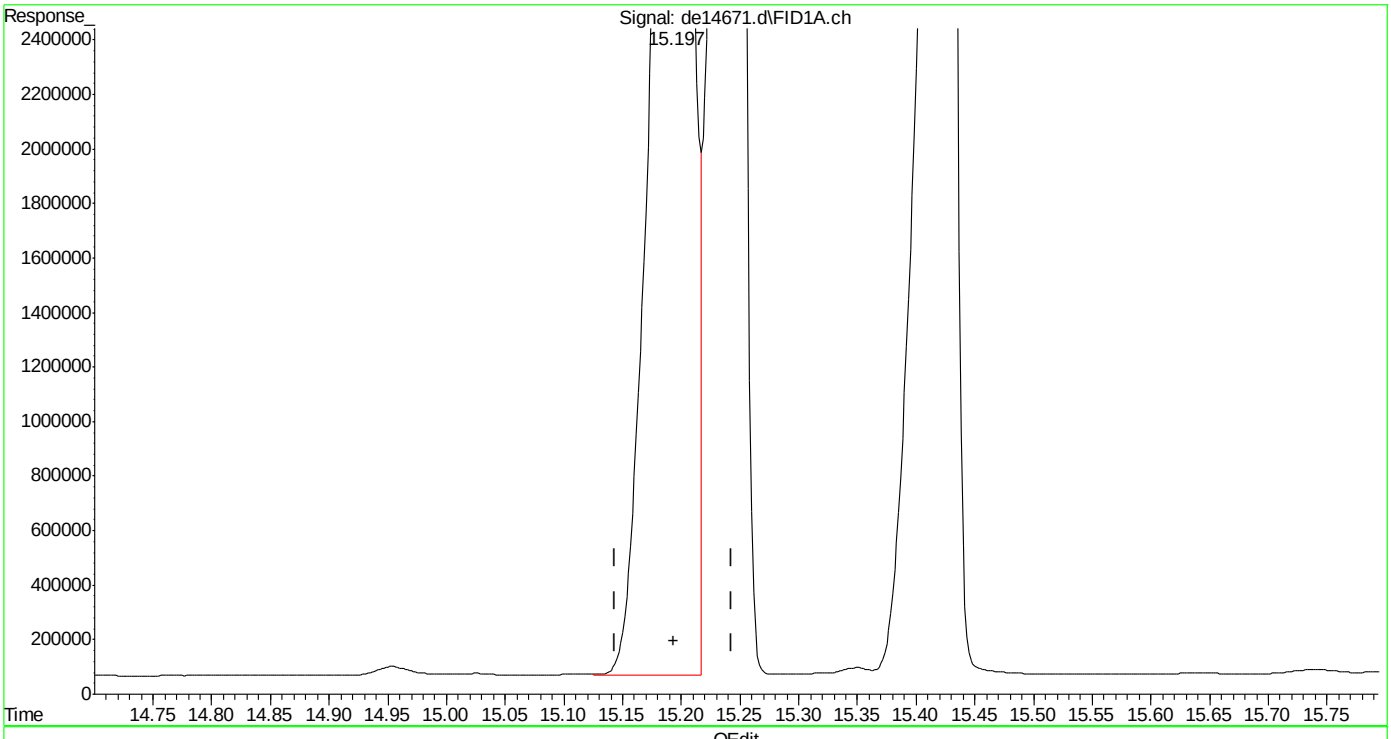
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
15.197min 101.798 µg/ml m
response 11203362

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:58:01 2016

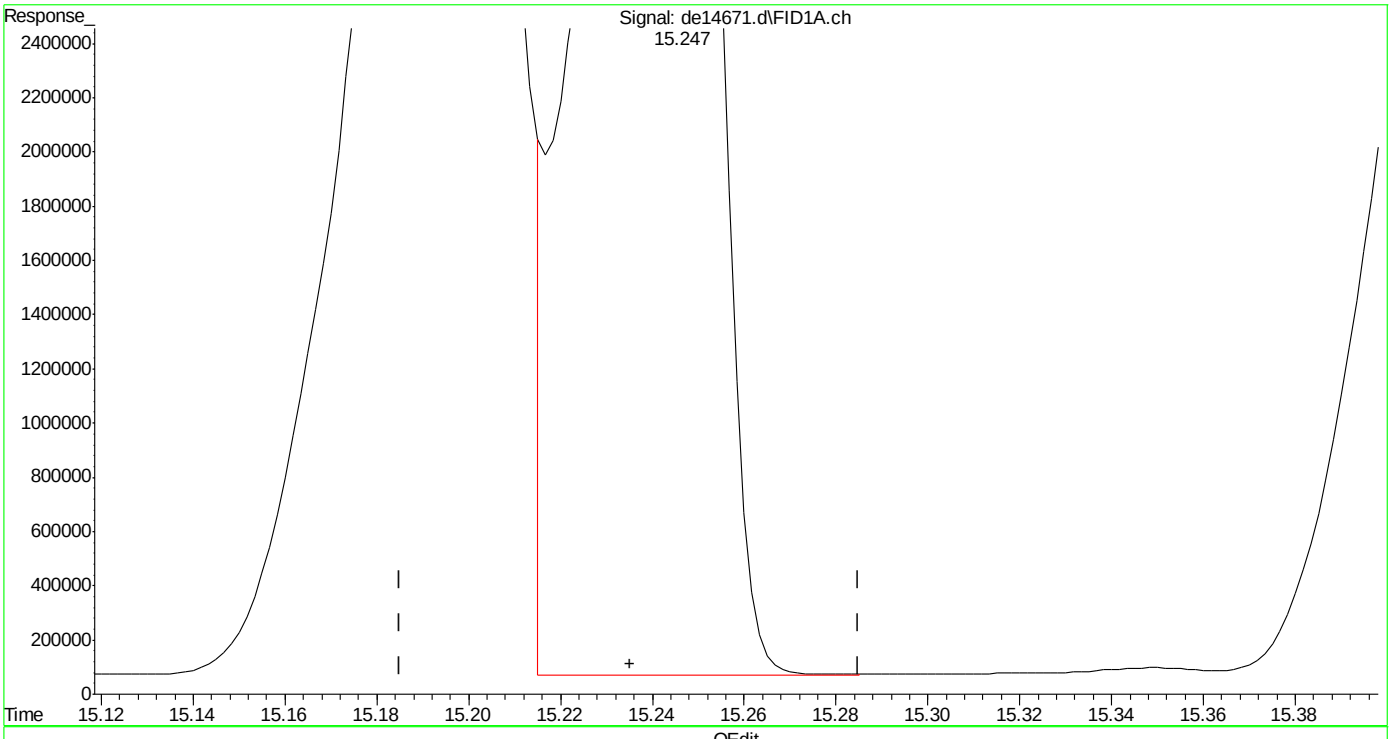
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
15.247min 98.125 µg/ml
response 10694568

(+) = Expected Retention Time

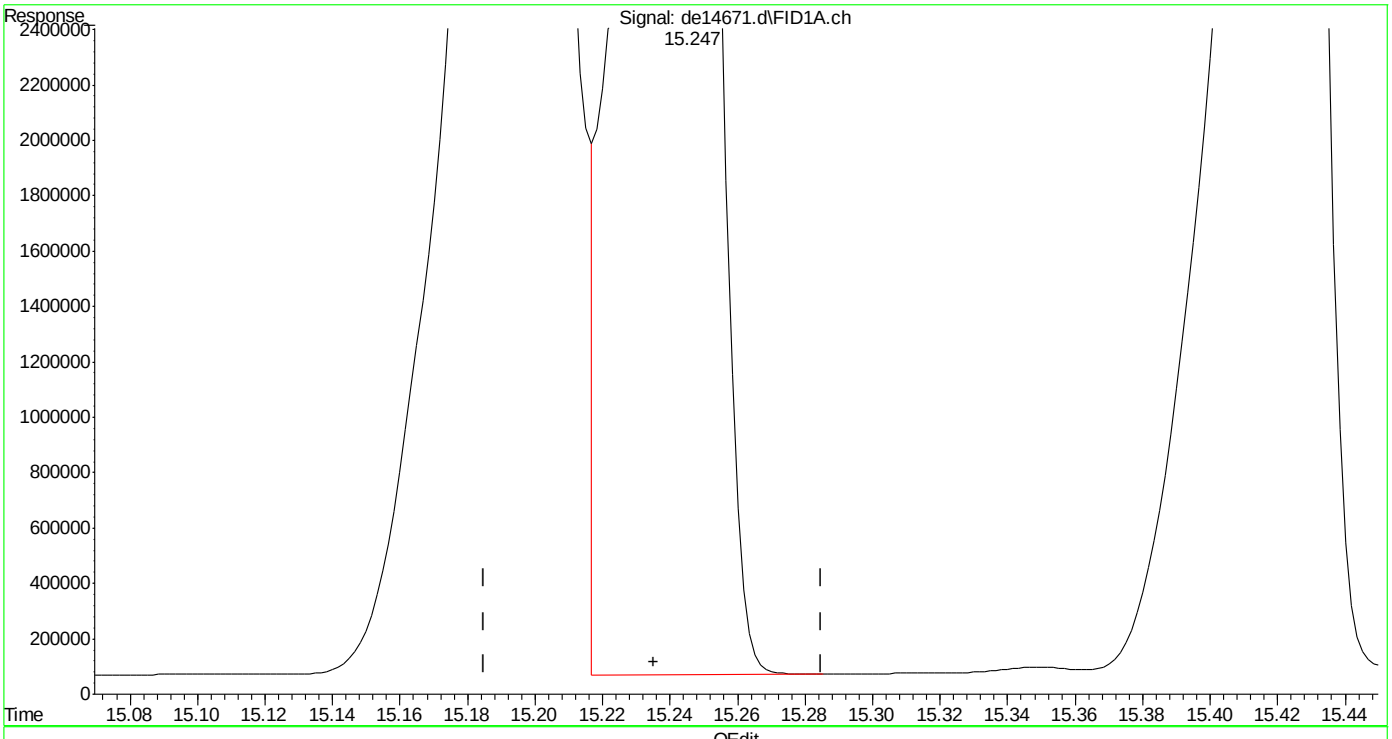
EPH160622W.M Thu Jun 23 07:58:05 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14671.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 8:36 pm
Operator : thomasa
Sample : cc815-100
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 112 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:56:42 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:56:20 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
15.247min 96.371 µg/ml m
response 10503451

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:58:15 2016

DE14672.D

Manual Integrations APPROVED (compounds with "m" flag)

Andri Piluri 06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : ic815-200 (Sig #1); cc815-200 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:01:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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	6.493	21568821	193.728 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 968.64%#	
6) s 2-bromonaphthalene	7.218	14717575	211.593 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 1057.96%#	
11) s o-terphenyl	9.762	24118725	187.478 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 937.39%#	
35) s 1-chlorooctadecane	11.227	11946306	187.627 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 938.14%#	
Target Compounds			
2) naphthalene	5.035	23929928	195.607 µg/ml
3) 2-methylnaphthalene	5.940	23749913	193.332 µg/ml
5) acenaphthylene	7.053f	23550221	191.386 µg/ml
7) acenaphthene	7.298	24636559	181.842 µg/ml
8) fluorene	7.942	24085117	193.029 µg/ml
9) phenanthrene	9.118	24106717	198.906 µg/ml
10) anthracene	9.178	22785902	175.846 µg/ml
12) fluoranthene	10.623	23418788	187.771 µg/ml
13) pyrene	10.880	23940175	187.378 µg/ml
14) benzo(a)anthracene	12.442	22291957	188.395 µg/ml
15) chrysene	12.497f	22470484	180.477 µg/ml
16) benzo(B)fluoranthene	13.737	22828942	197.507 µg/mlm
17) benzo(k)fluoranthene	13.782f	21742175	174.577 µg/mlm
18) benzo(a)pyrene	14.078f	21269399	184.730 µg/ml
19) indeno(1,2,3-cd)pyrene	15.227f	24533309	217.381 µg/ml
20) dibenzo(ah)anthracene	15.268f	19101555	171.272 µg/mlm
21) benzo(ghi)perylene	15.453f	21702878	196.424 µg/ml
25) h c-9	2.647	15645868	186.255 µg/mlm
26) h c-10	3.800	15836986	186.275 µg/ml
27) naphthalene #2	5.490	16808167	189.047 µg/ml
28) c-12	5.667	15551710	185.948 µg/ml
29) 2-methylnaphthalene #2	6.385	16655254	189.284 µg/ml
30) c-14	7.185	15402298	184.096 µg/ml
31) c-16	8.513	15150013	180.325 µg/ml
32) c-18	9.708	15122313	183.089 µg/ml
33) c-19	10.265	15097457	184.055 µg/ml
34) c-20	10.795	14729110	185.129 µg/ml
36) c-22	11.790	14630809	185.049 µg/ml
37) c-24	12.707	13632931	181.951 µg/ml
38) c-26	13.558	14575529	185.422 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : ic815-200 (Sig #1); cc815-200 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:01:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 2016
Response via : Initial Calibration
Integrator: RTE

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

	Compound	R.T.	Response	Conc	Units
39)	c-28	14.352	14116516	187.507	µg/ml
40) h	c-30	15.082	13936754	172.562	µg/ml
41) h	c-36	16.983	13213232	196.254	µg/mlm

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

9.4.7

9

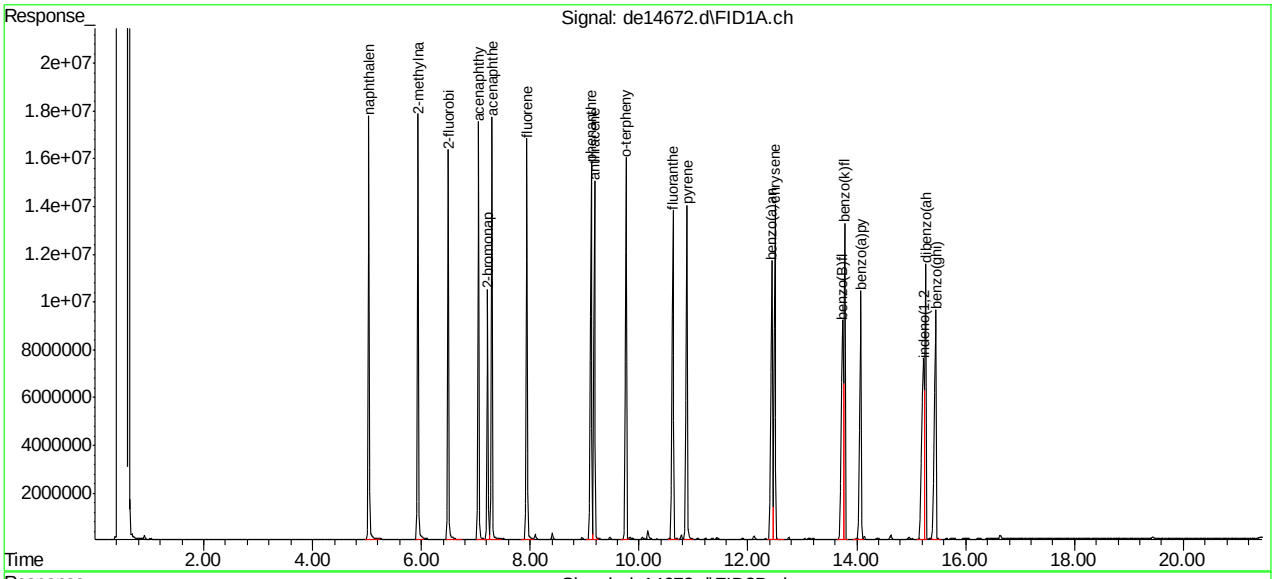
SGS ACCUTEST MC46423

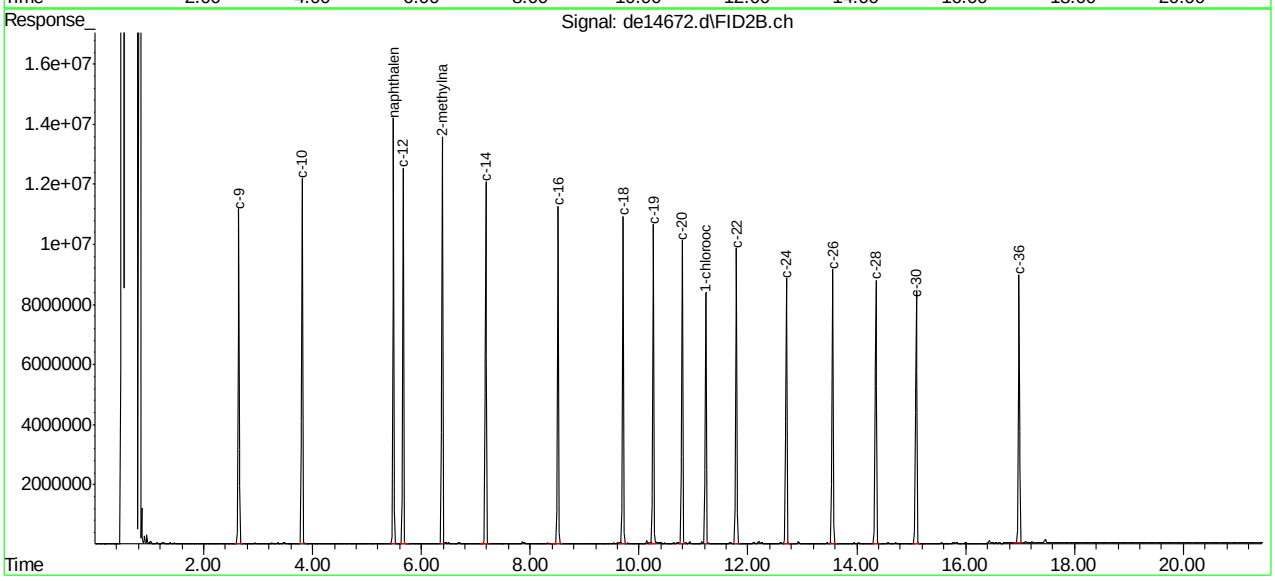
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : ic815-200 (Sig #1); cc815-200 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

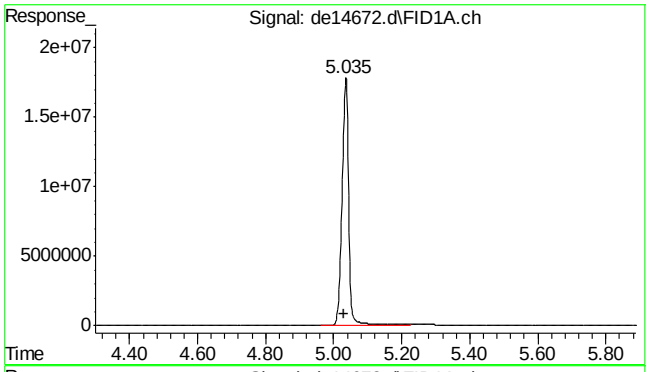
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:01:09 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 2016
Response via : Initial Calibration
Integrator: RTE

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



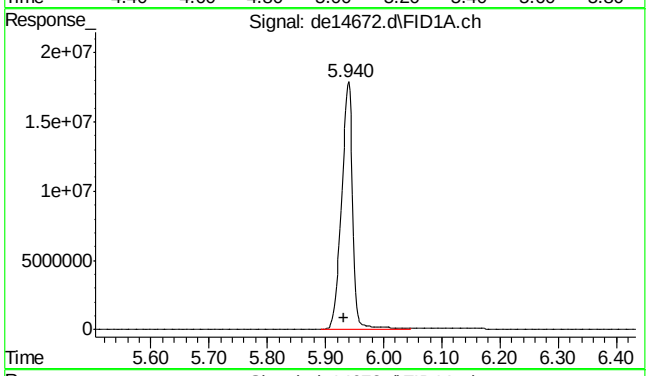


SGS ACCUTEST MC46423



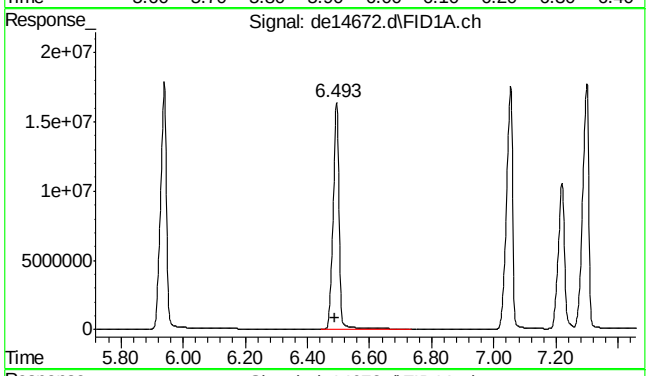
#2 naphthalene

R.T.: 5.035 min
Delta R.T.: 0.005 min
Response: 23929928
Conc: 195.61 µg/ml



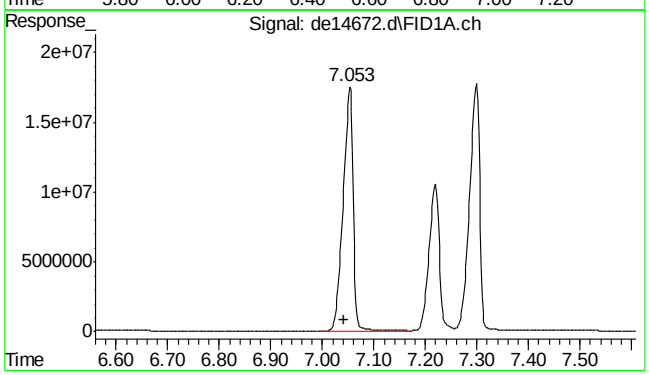
#3 2-methylnaphthalene

R.T.: 5.940 min
Delta R.T.: 0.008 min
Response: 23749913
Conc: 193.33 µg/ml



#4 2-fluorobiphenyl

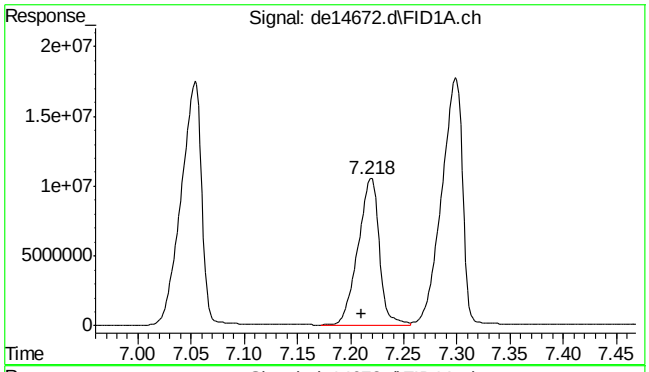
R.T.: 6.493 min
Delta R.T.: 0.005 min
Response: 21568821
Conc: 193.73 µg/ml



#5 acenaphthylene

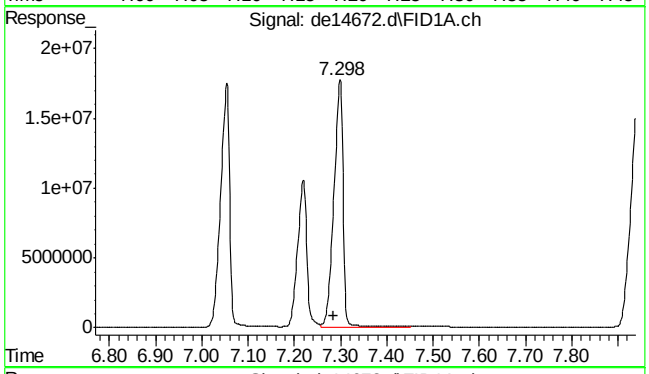
R.T.: 7.053 min
Delta R.T.: 0.012 min
Response: 23550221
Conc: 191.39 µg/ml

SGS ACCUTEST MC46423



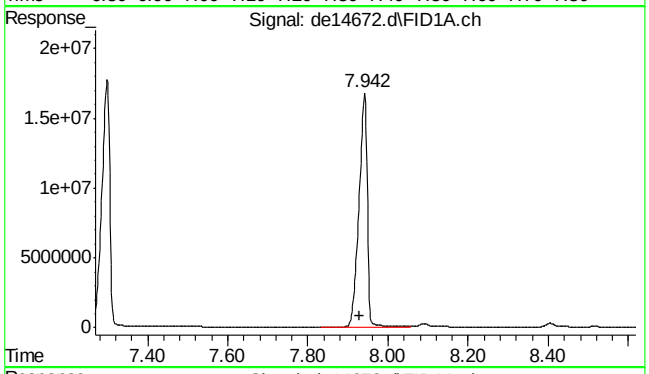
#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.008 min
Response: 14717575
Conc: 211.59 µg/ml



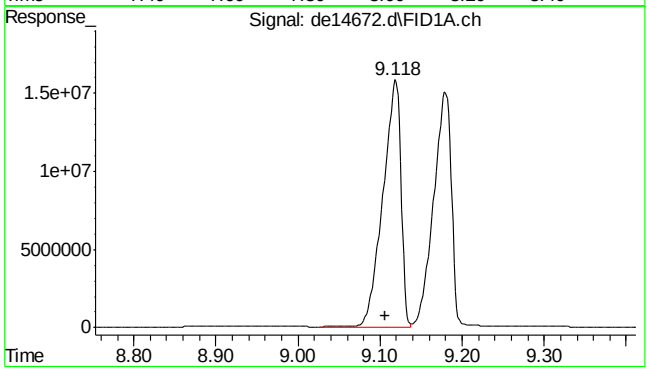
#7 acenaphthene

R.T.: 7.298 min
Delta R.T.: 0.013 min
Response: 24636559
Conc: 181.84 µg/ml



#8 fluorene

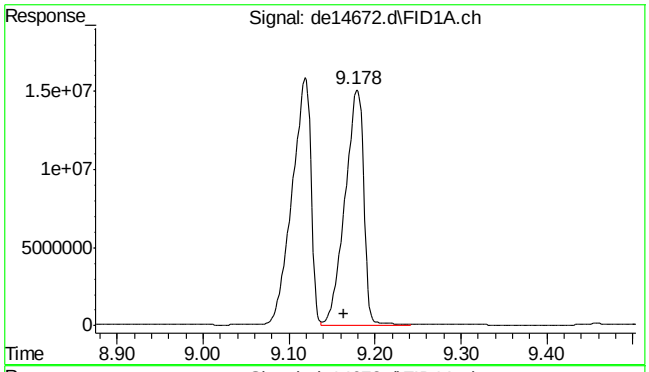
R.T.: 7.942 min
Delta R.T.: 0.013 min
Response: 24085117
Conc: 193.03 µg/ml



#9 phenanthrene

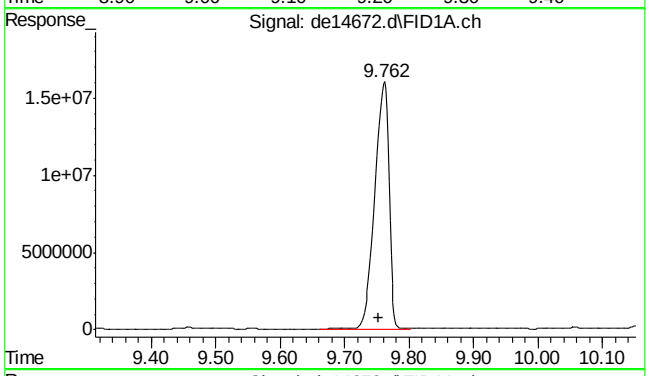
R.T.: 9.118 min
Delta R.T.: 0.012 min
Response: 24106717
Conc: 198.91 µg/ml

SGS ACCUTEST MC46423



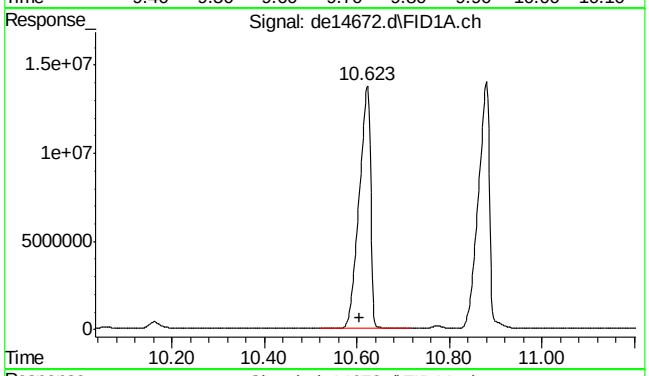
#10 anthracene

R.T.: 9.178 min
Delta R.T.: 0.015 min
Response: 22785902
Conc: 175.85 µg/ml



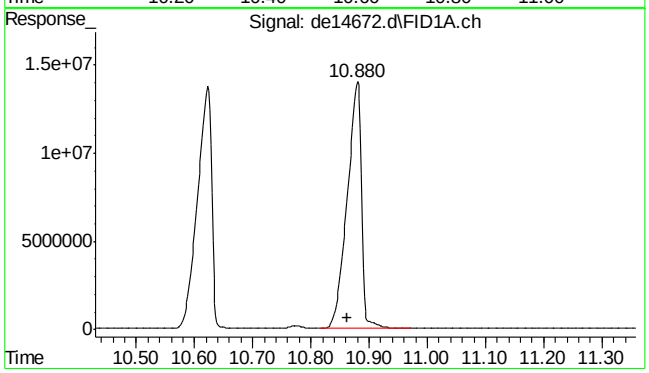
#11 o-terphenyl

R.T.: 9.762 min
Delta R.T.: 0.010 min
Response: 24118725
Conc: 187.48 µg/ml



#12 fluoranthene

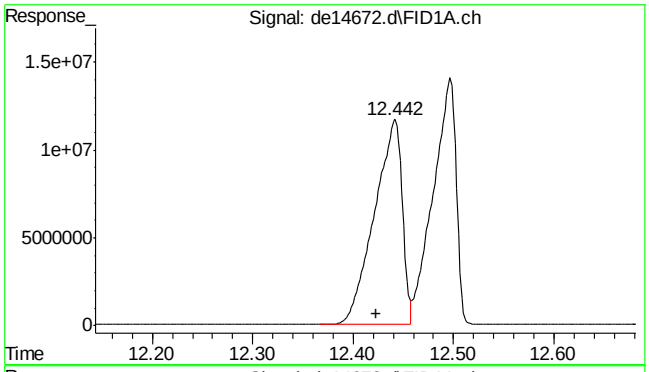
R.T.: 10.623 min
Delta R.T.: 0.018 min
Response: 23418788
Conc: 187.77 µg/ml



#13 pyrene

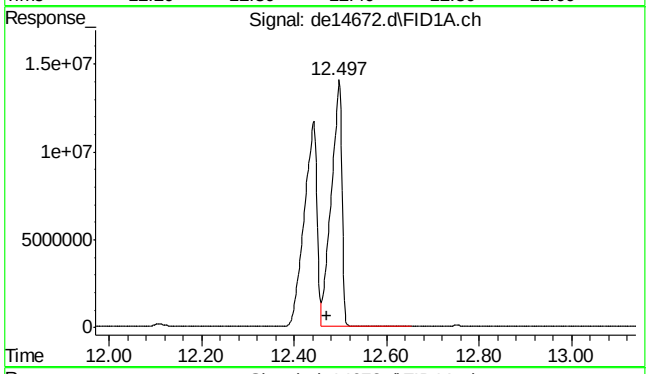
R.T.: 10.880 min
Delta R.T.: 0.018 min
Response: 23940175
Conc: 187.38 µg/ml

SGS ACCUTEST MC46423



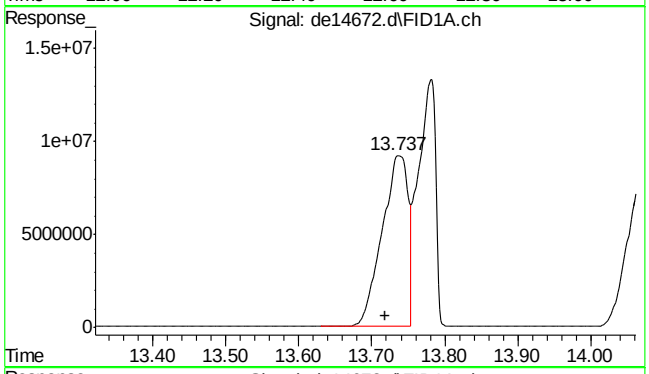
#14 benzo(a)anthracene

R.T.: 12.442 min
Delta R.T.: 0.018 min
Response: 22291957
Conc: 188.39 µg/ml



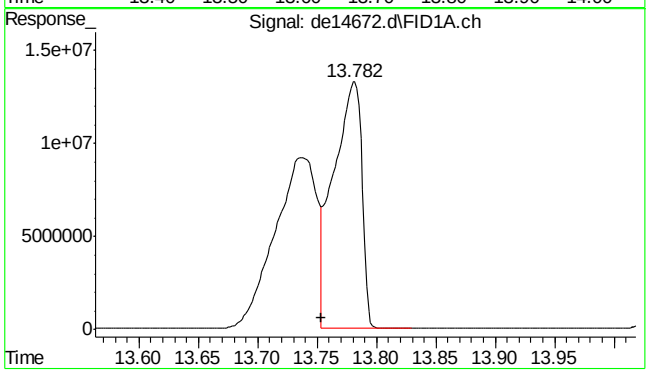
#15 chrysene

R.T.: 12.497 min
Delta R.T.: 0.025 min
Response: 22470484
Conc: 180.48 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.737 min
Delta R.T.: 0.018 min
Response: 22828942
Conc: 197.51 µg/ml m



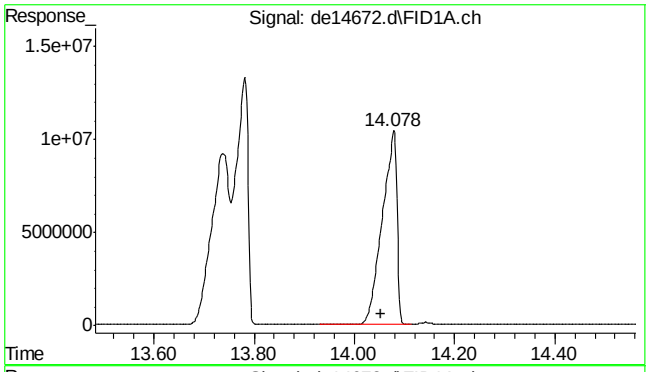
#17 benzo(k)fluoranthene

R.T.: 13.782 min
Delta R.T.: 0.028 min
Response: 21742175
Conc: 174.58 µg/ml m

9.4.7

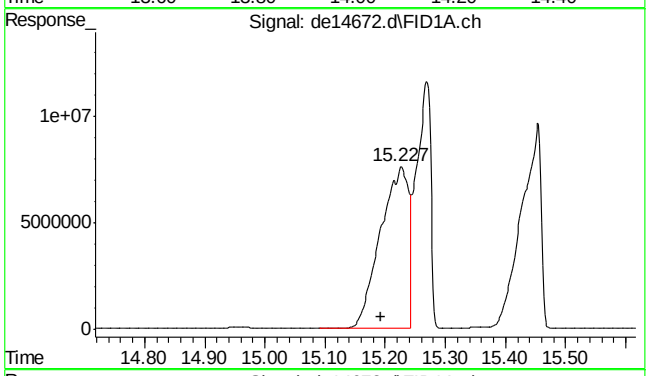
9

SGS ACCUTEST MC46423



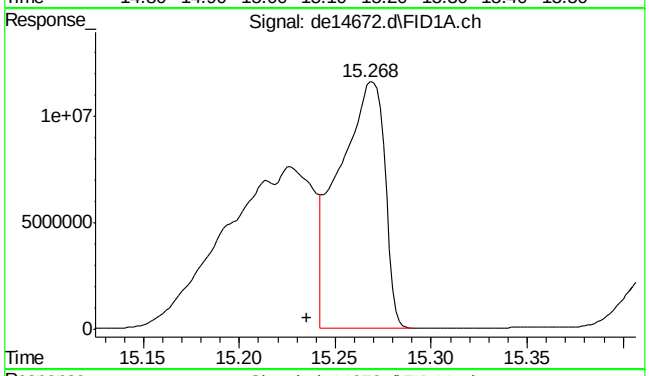
#18 benzo(a)pyrene

R.T.: 14.078 min
Delta R.T.: 0.025 min
Response: 21269399
Conc: 184.73 µg/ml



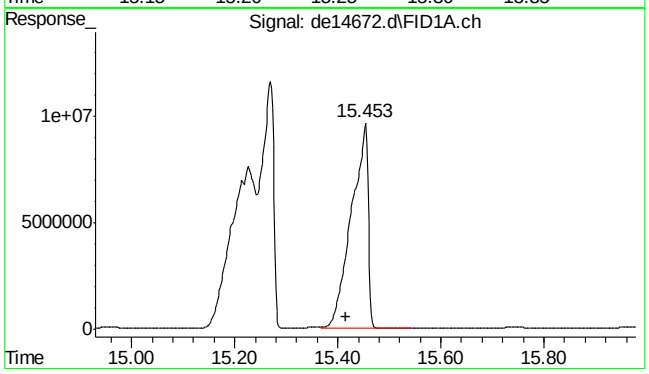
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.227 min
Delta R.T.: 0.033 min
Response: 24533309
Conc: 217.38 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.268 min
Delta R.T.: 0.033 min
Response: 19101555
Conc: 171.27 µg/ml m



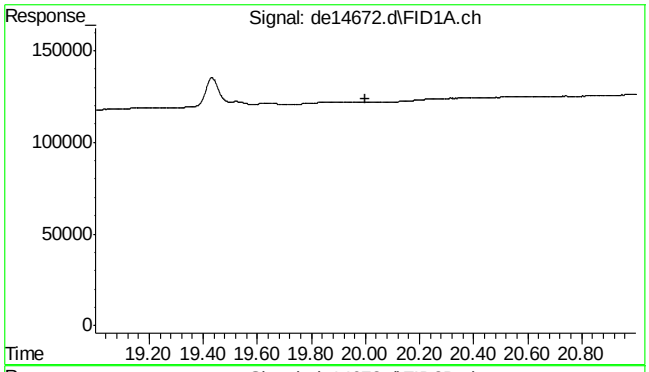
#21 benzo(ghi)perylene

R.T.: 15.453 min
Delta R.T.: 0.037 min
Response: 21702878
Conc: 196.42 µg/ml

9.4.7

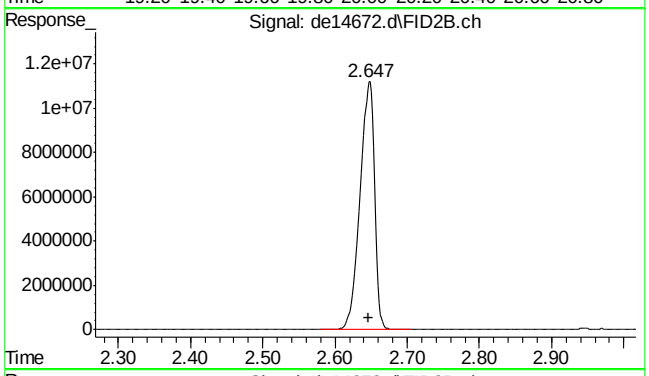
9

SGS ACCUTEST MC46423



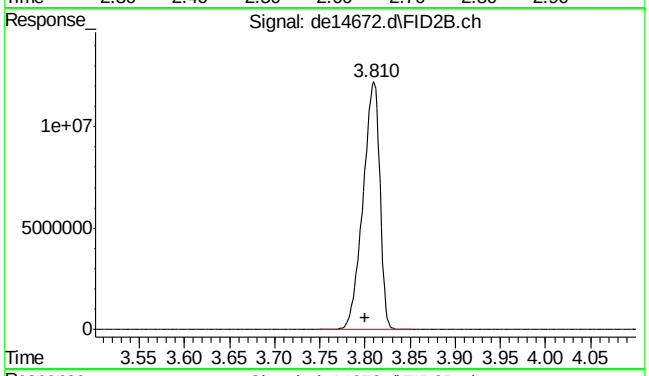
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



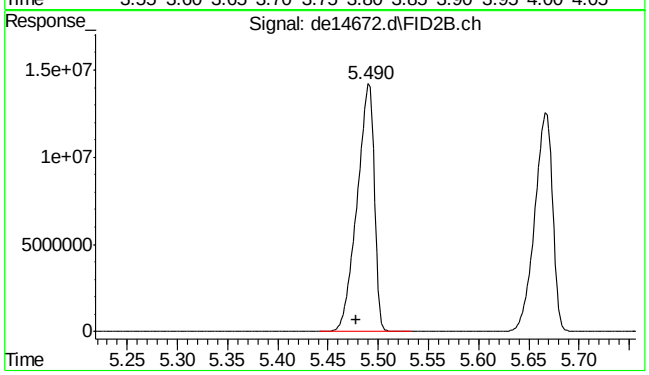
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 15645868
Conc: 186.26 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 15836986
Conc: 186.27 µg/ml



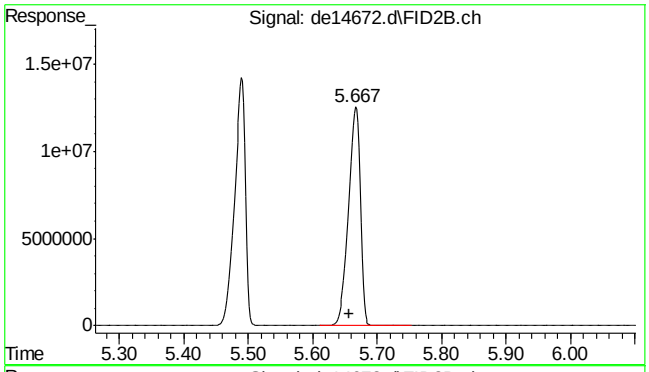
#27 naphthalene #2

R.T.: 5.490 min
Delta R.T.: 0.012 min
Response: 16808167
Conc: 189.05 µg/ml

9.4.7

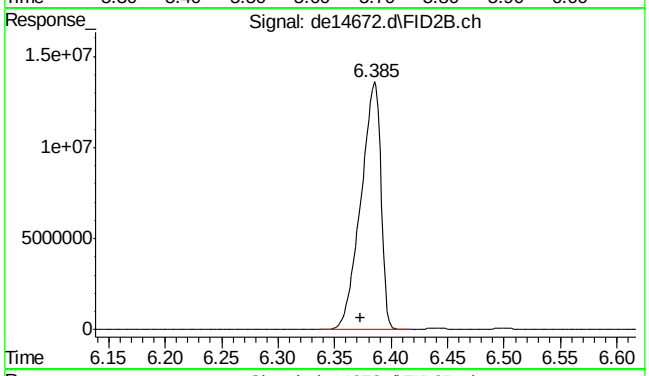
9

SGS ACCUTEST MC46423



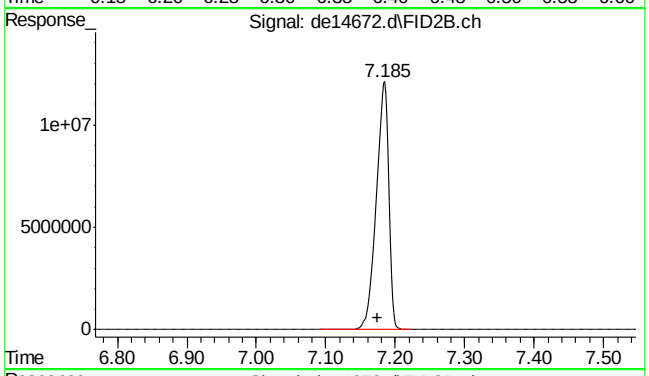
#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.010 min
Response: 15551710
Conc: 185.95 µg/ml



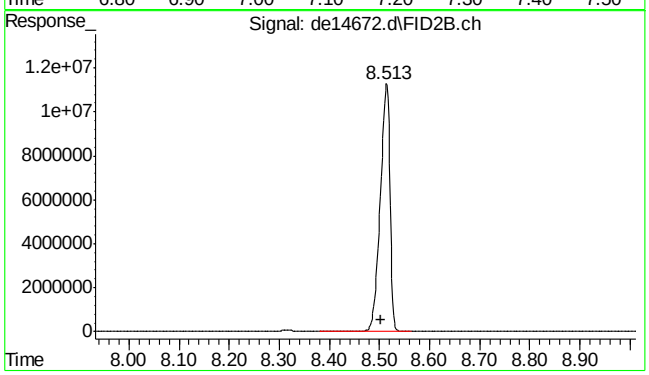
#29 2-methylnaphthalene #2

R.T.: 6.385 min
Delta R.T.: 0.012 min
Response: 16655254
Conc: 189.28 µg/ml



#30 c-14

R.T.: 7.185 min
Delta R.T.: 0.010 min
Response: 15402298
Conc: 184.10 µg/ml



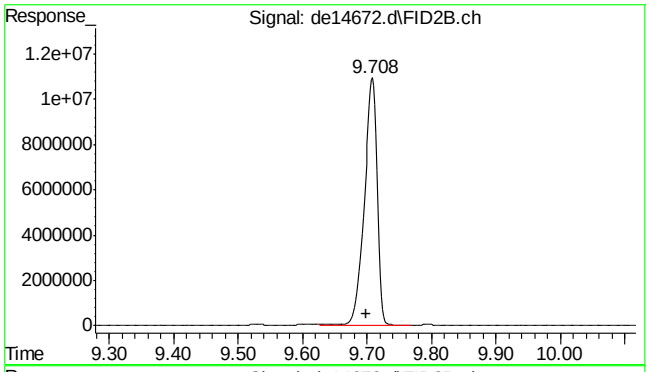
#31 c-16

R.T.: 8.513 min
Delta R.T.: 0.010 min
Response: 15150013
Conc: 180.33 µg/ml

9.4.7

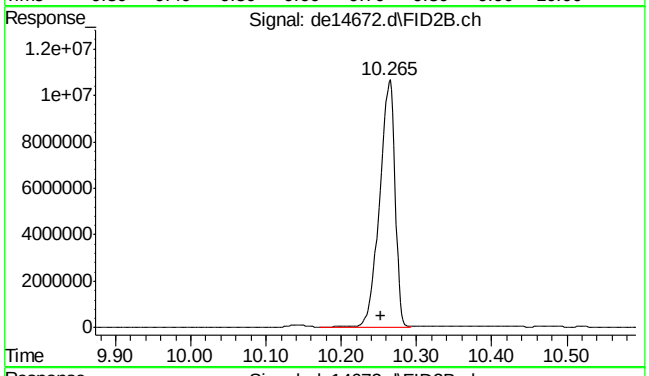
9

SGS ACCUTEST MC46423



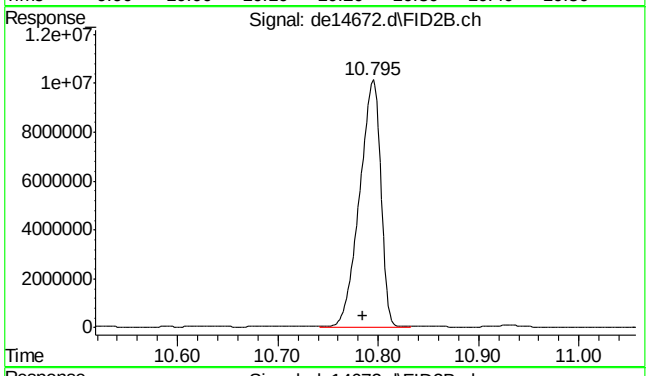
#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.010 min
Response: 15122313
Conc: 183.09 µg/ml



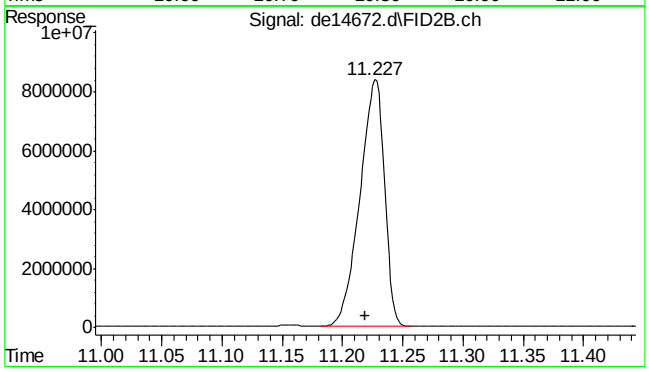
#33 c-19

R.T.: 10.265 min
Delta R.T.: 0.012 min
Response: 15097457
Conc: 184.06 µg/ml



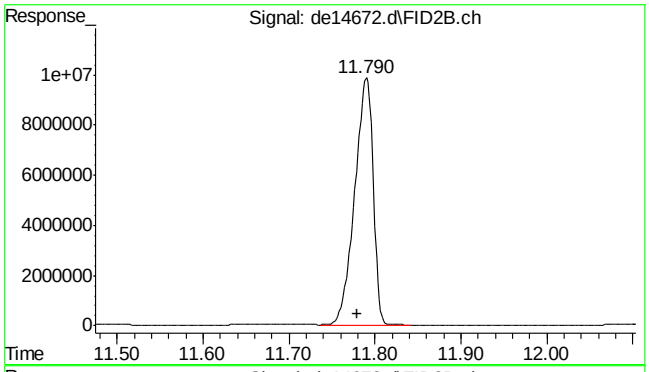
#34 c-20

R.T.: 10.795 min
Delta R.T.: 0.010 min
Response: 14729110
Conc: 185.13 µg/ml



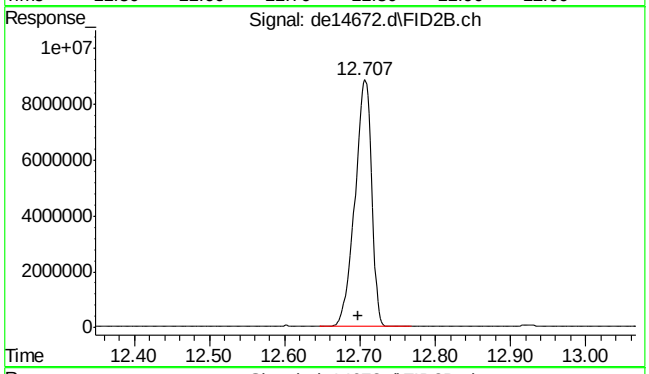
#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.008 min
Response: 11946306
Conc: 187.63 µg/ml



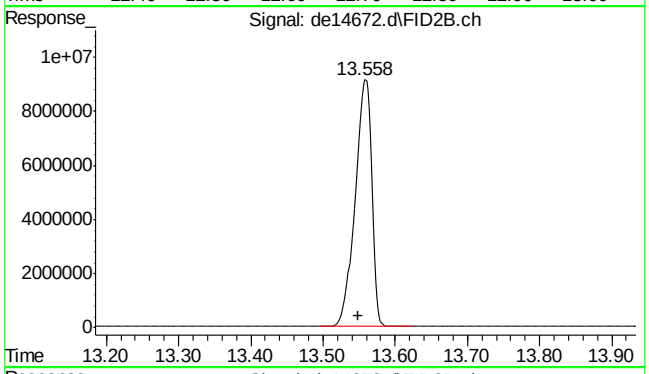
#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.010 min
Response: 14630809
Conc: 185.05 µg/ml



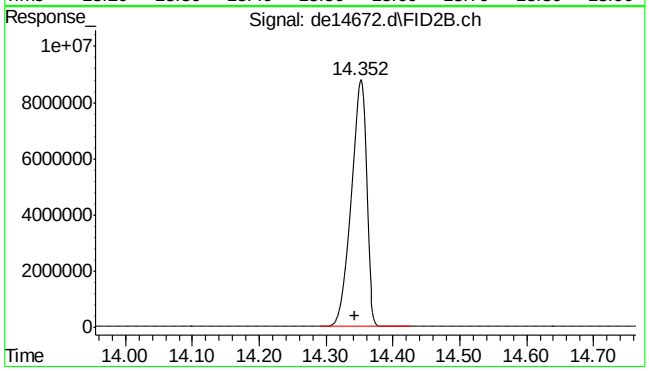
#37 c-24

R.T.: 12.707 min
Delta R.T.: 0.008 min
Response: 13632931
Conc: 181.95 µg/ml



#38 c-26

R.T.: 13.558 min
Delta R.T.: 0.010 min
Response: 14575529
Conc: 185.42 µg/ml



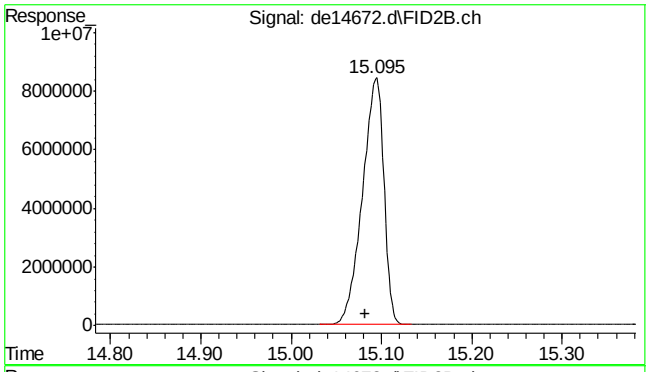
#39 c-28

R.T.: 14.352 min
Delta R.T.: 0.008 min
Response: 14116516
Conc: 187.51 µg/ml

9.4.7

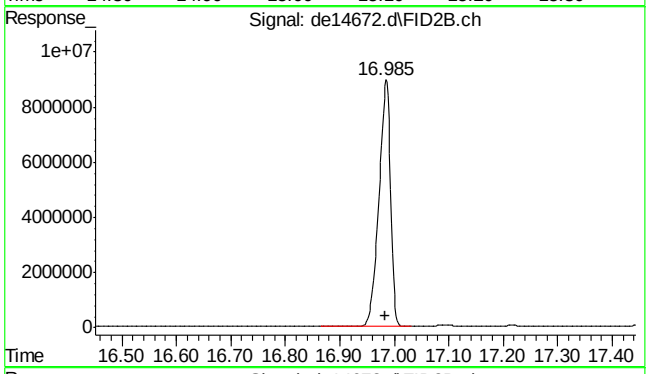
9

SGS ACCUTEST MC46423



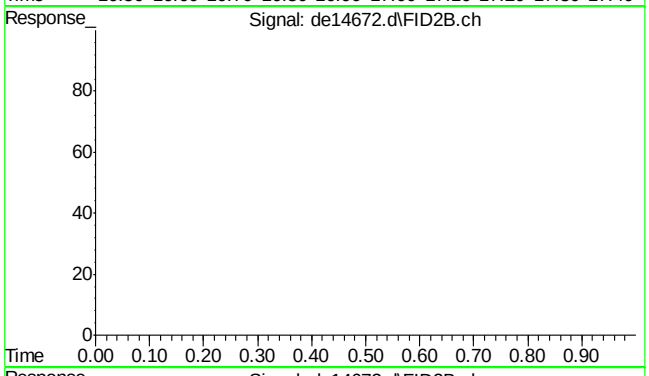
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 13936754
Conc: 172.56 µg/ml



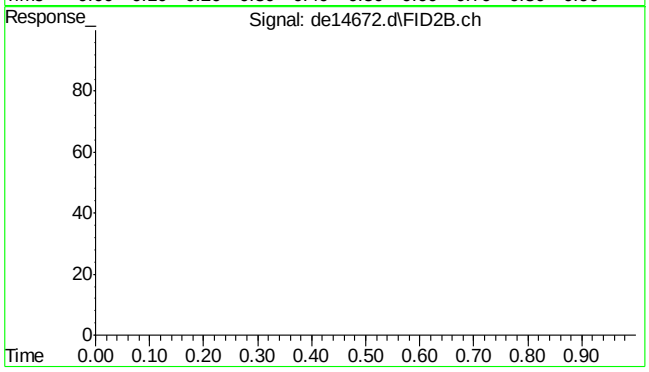
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 13213232
Conc: 196.25 µg/ml m



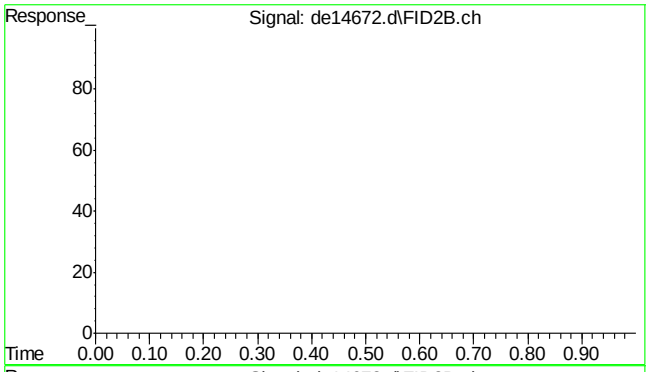
#42 bht

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



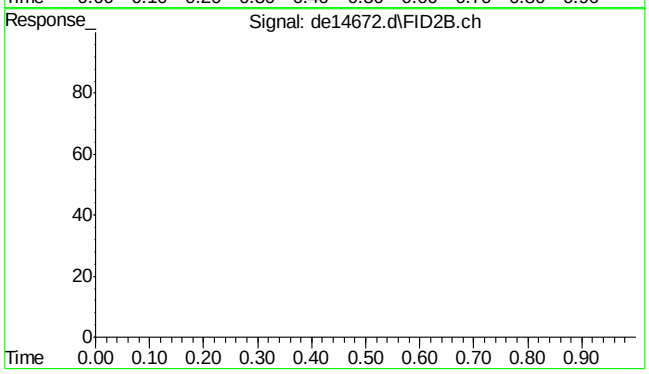
#43 bht

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



#44 bht

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



#45 bht

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

9.4.7

9

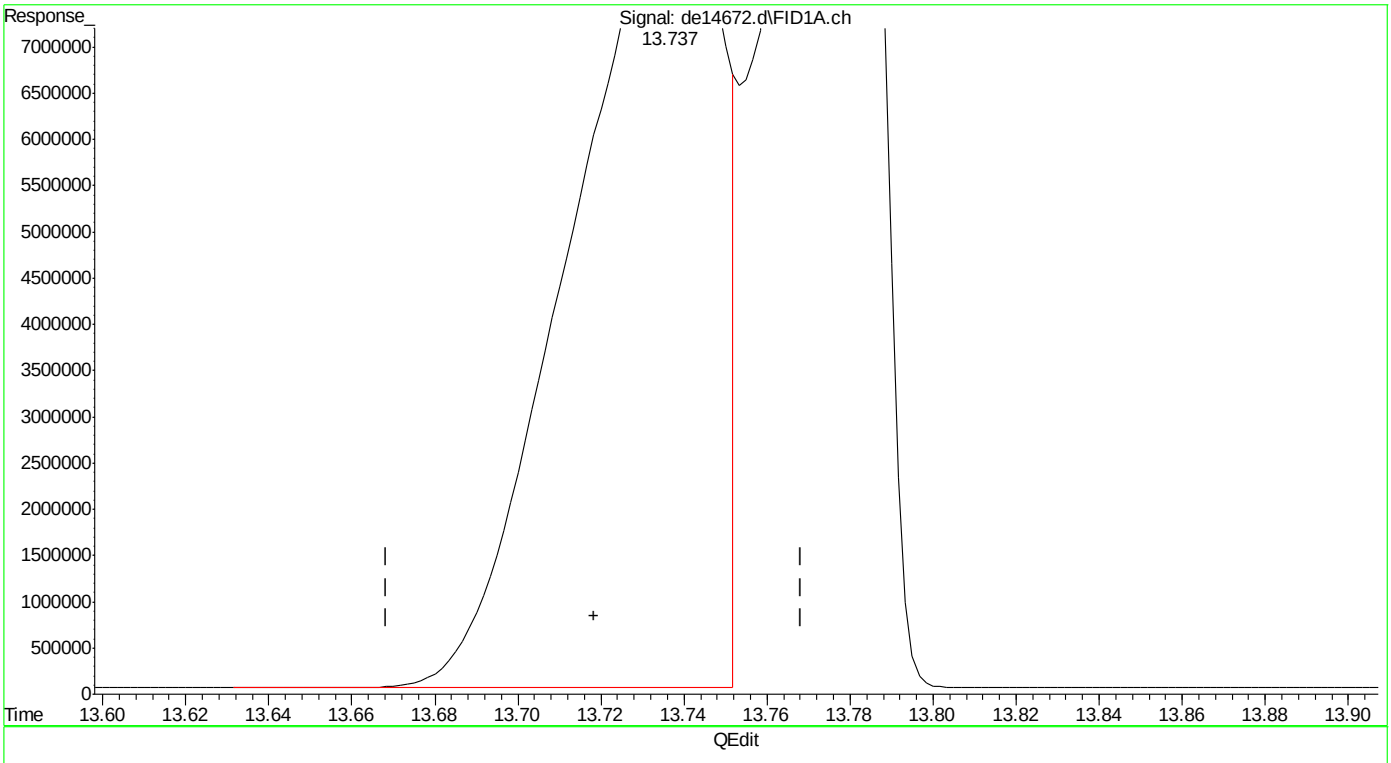
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : cc815-200
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:59:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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
13.737min 191.862 µg/ml
response 22176370

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 07:59:11 2016

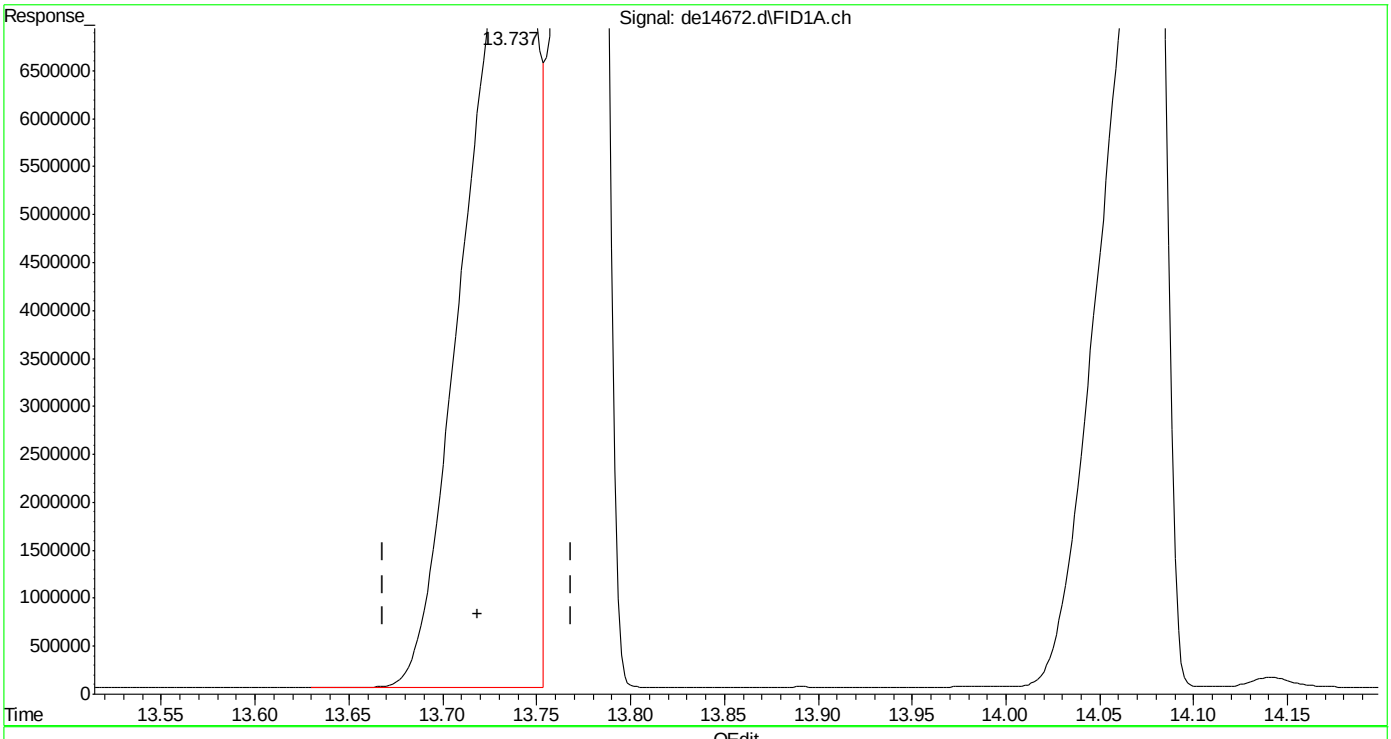
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : cc815-200
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:59:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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
13.737min 197.507 µg/ml m
response 22828942

(+) = Expected Retention Time

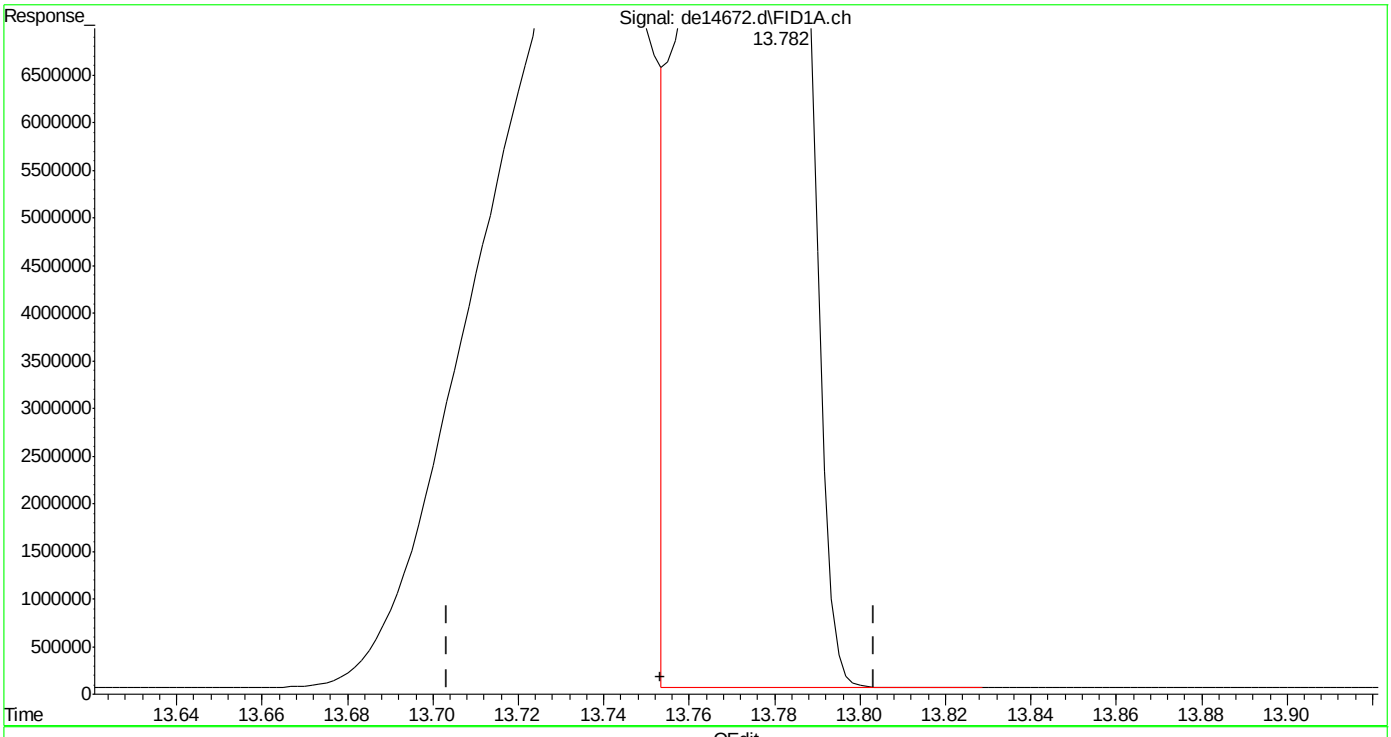
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : cc815-200
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:59:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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
13.782min 174.577 µg/ml m
response 21742175

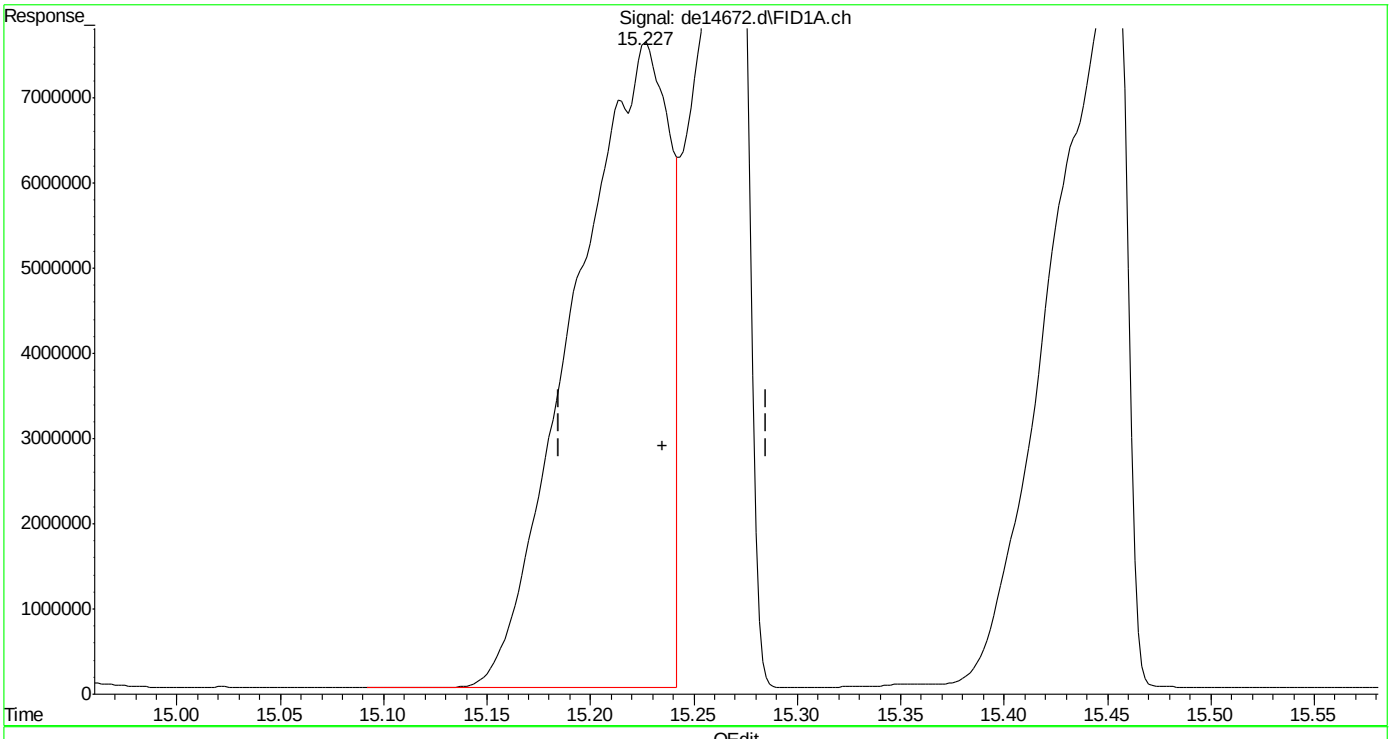
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : cc815-200
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:59:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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
15.227min 219.975 µg/ml
response 24533309

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 08:00:29 2016

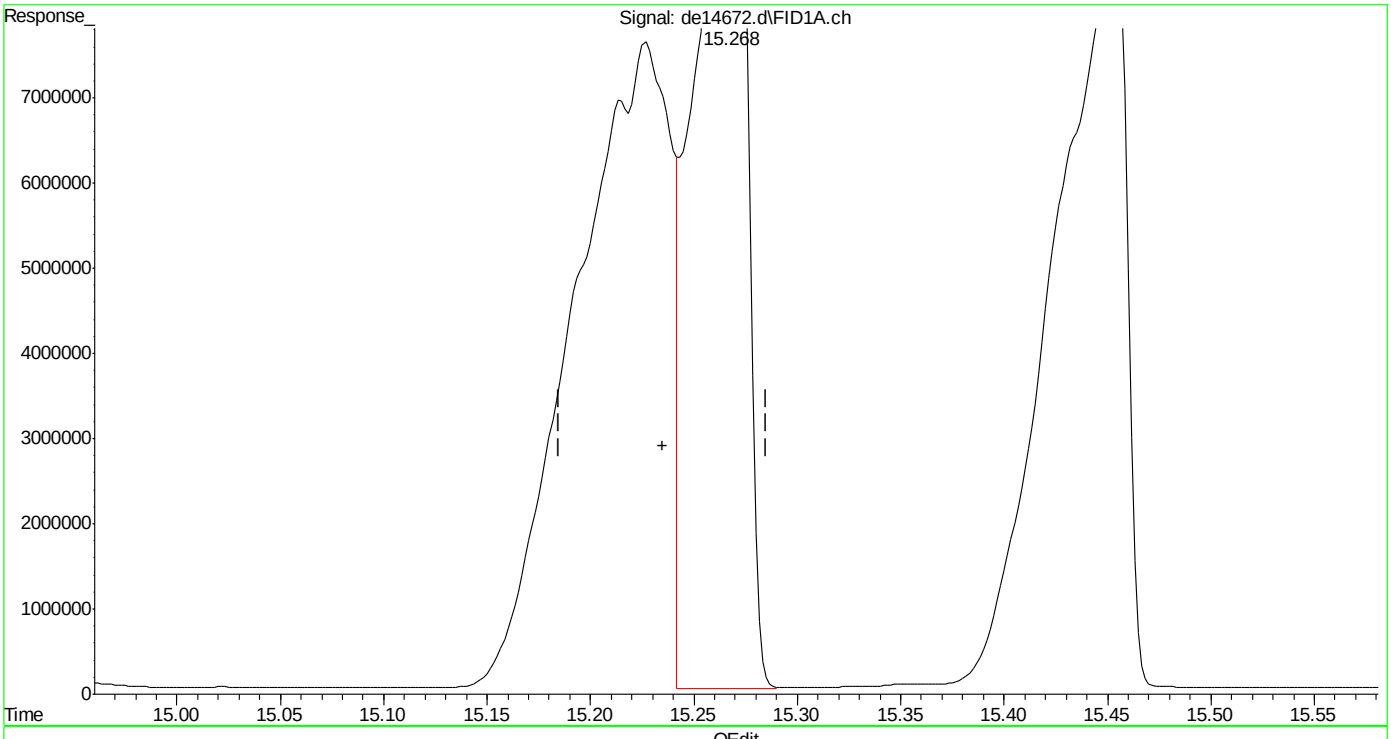
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14672.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:04 pm
Operator : thomasa
Sample : cc815-200
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 114 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 07:59:00 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 07:58:49 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
15.268min 171.272 µg/ml m
response 19101555

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 11:35

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:13:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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	6.485	5332046	46.578 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 232.89%#
6) s	2-bromonaphthalene	7.208	3494534	48.736 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 243.68%#
11) s	o-terphenyl	9.748	5818429	43.976 µg/ml
Spiked Amount	20.000	Range	8 - 28	Recovery = 219.88%#
35) s	1-chlorooctadecane	11.218	3828846	58.767 µg/mlm
Spiked Amount	20.000	Range	8 - 28	Recovery = 293.84%#
	Target Compounds			
2)	naphthalene	5.028	5919992	47.158 µg/ml
3)	2-methylnaphthalene	5.930	5706597	45.239 µg/ml
5)	acenaphthylene	7.040	5746230	45.416 µg/ml
7)	acenaphthene	7.282	5957493	42.771 µg/ml
8)	fluorene	7.927	5819321	45.298 µg/ml
9)	phenanthrene	9.102	5709676	45.708 µg/ml
10)	anthracene	9.160	5877713	44.181 µg/ml
12)	fluoranthene	10.602	5843258	45.557 µg/ml
13)	pyrene	10.858	6133432	46.698 µg/ml
14)	benzo(a)anthracene	12.418	5593098	46.041 µg/ml
15)	chrysene	12.467	5419101	42.453 µg/ml
16)	benzo(B)fluoranthene	13.713	5686083	48.026 µg/mlm
17)	benzo(k)fluoranthene	13.743	5296656	41.370 µg/mlm
18)	benzo(a)pyrene	14.045	4932114	41.812 µg/ml
19)	indeno(1,2,3-cd)pyrene	15.183	5189319	44.336 µg/mlm
20)	dibenzo(ah)anthracene	15.228	5167436	45.606 µg/mlm
21)	benzo(ghi)perylene	15.408	5139087	45.288 µg/ml
25) h	c-9	2.647	4195241	49.762 µg/mlm
26) h	c-10	3.800	4290577	50.893 µg/ml
27)	naphthalene #2	5.478	4634254	50.976 µg/ml
28)	c-12	5.658	4207991	49.914 µg/ml
29)	2-methylnaphthalene #2	6.373	4557390	50.673 µg/ml
30)	c-14	7.175	4164771	49.401 µg/ml
31)	c-16	8.503	4102769	48.665 µg/ml
32)	c-18	9.698	4021156	47.697 µg/ml
33)	c-19	10.253	3951249	50.772 µg/ml
34)	c-20	10.785	3904441	50.170 µg/ml
36)	c-22	11.780	3927561	50.467 µg/ml
37)	c-24	12.697	3872214	49.756 µg/ml
38)	c-26	13.548	3756324	48.267 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:13:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
39)	c-28	14.340	3684091	47.339	µg/ml
40) h	c-30	15.082	3605357	46.327	µg/ml
41) h	c-36	16.983	3238093	41.608	µg/mlm

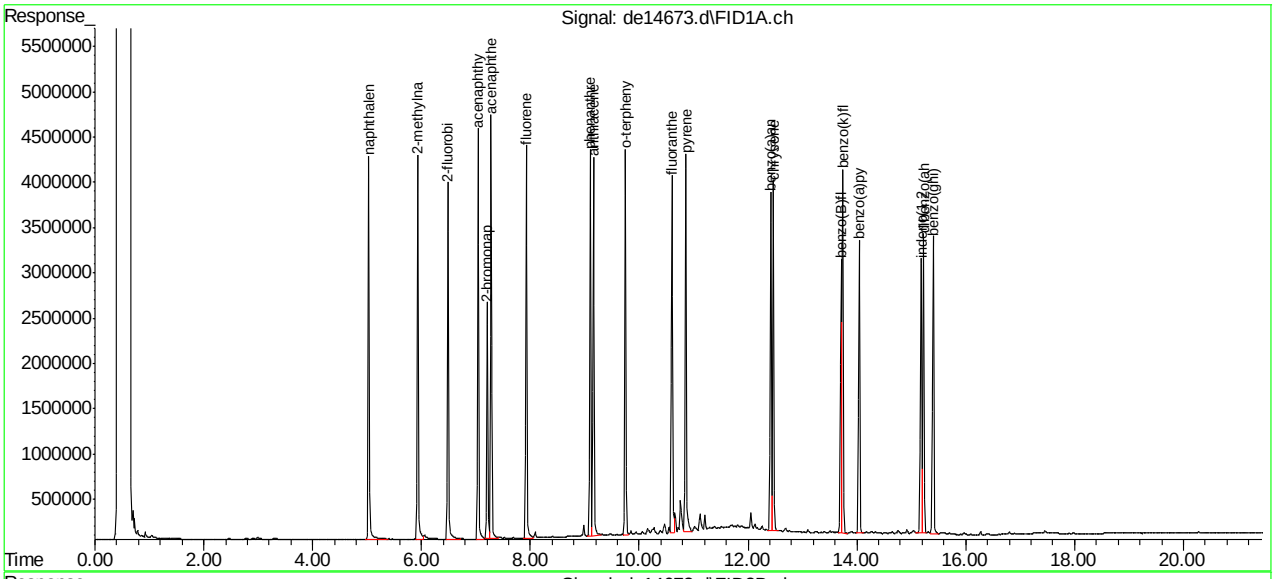
(f)=RT Delta > 1/2 Window (m)=manual int.

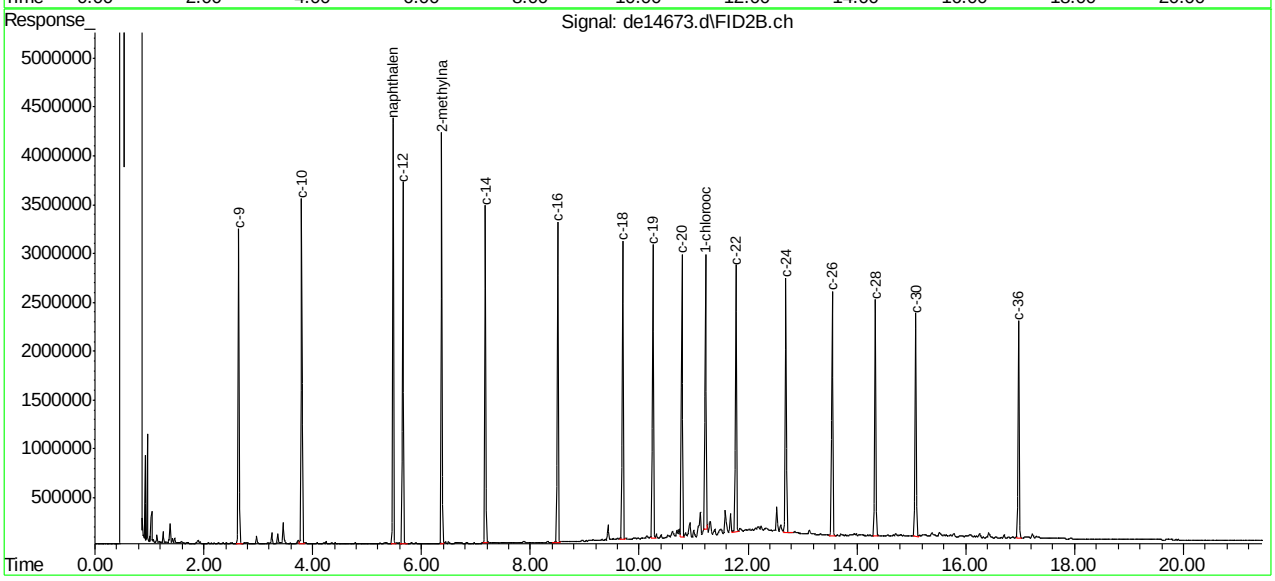
Quantitation Report (QT Reviewed)

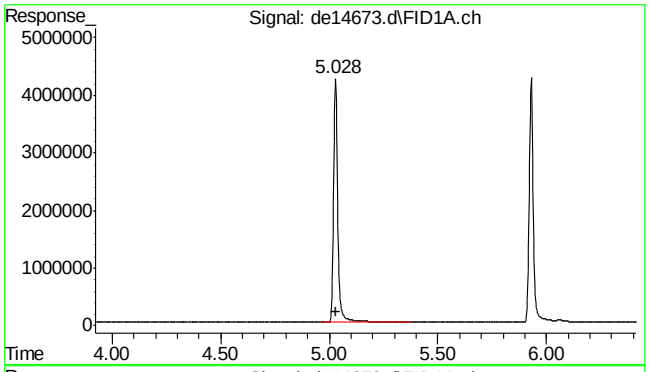
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:13:26 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 2016
Response via : Initial Calibration
Integrator: RTE

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

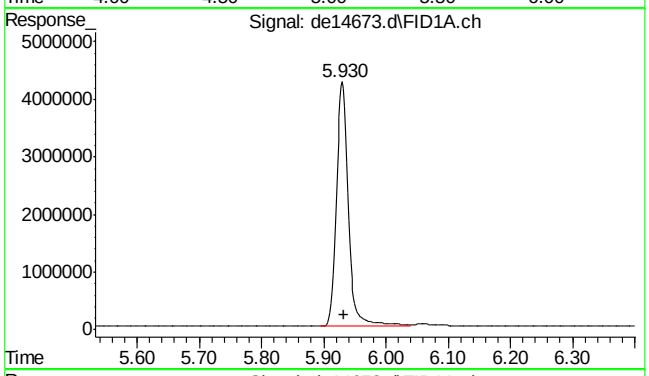






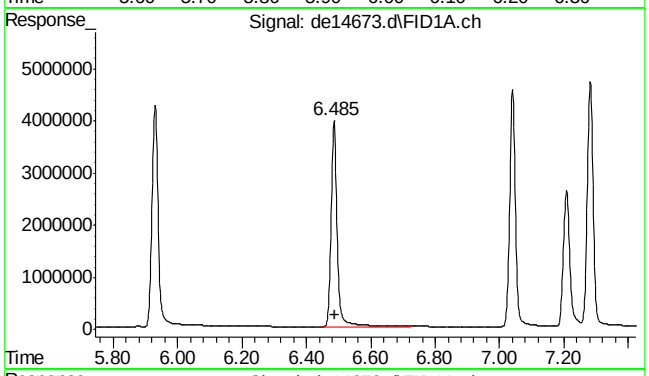
#2 naphthalene

R.T.: 5.028 min
Delta R.T.: -0.002 min
Response: 5919992
Conc: 47.16 µg/ml



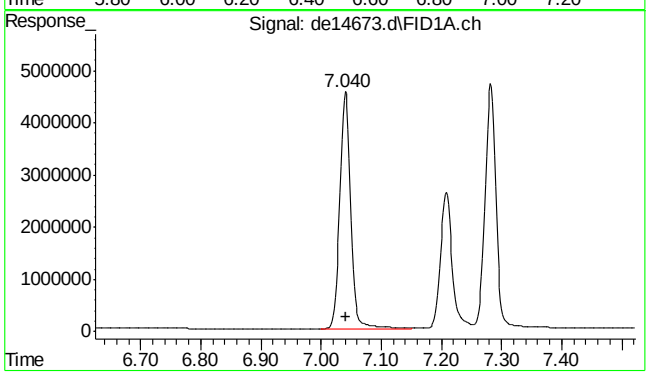
#3 2-methylnaphthalene

R.T.: 5.930 min
Delta R.T.: -0.002 min
Response: 5706597
Conc: 45.24 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.485 min
Delta R.T.: -0.003 min
Response: 5332046
Conc: 46.58 µg/ml



#5 acenaphthylene

R.T.: 7.040 min
Delta R.T.: -0.002 min
Response: 5746230
Conc: 45.42 µg/ml

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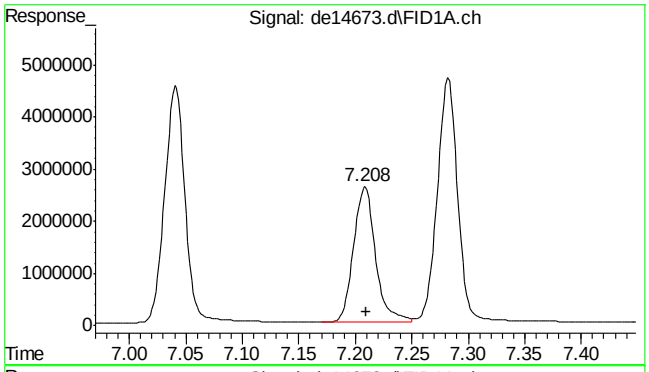
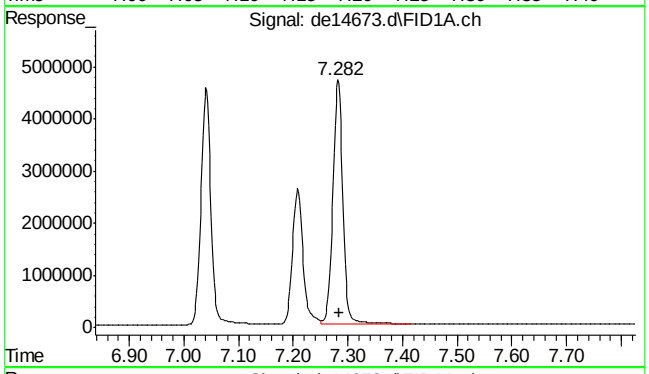


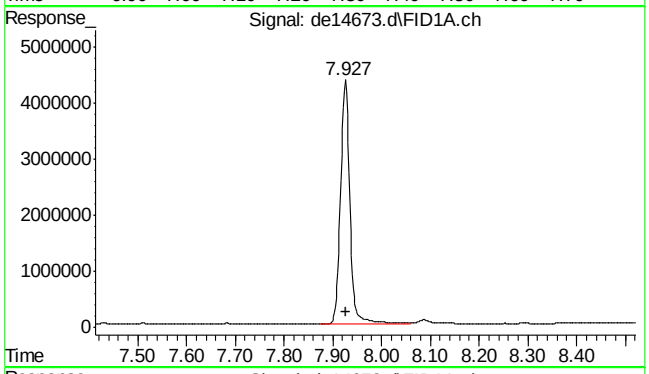
#6 2-bromonaphthalene

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 3494534
Conc: 48.74 µg/ml



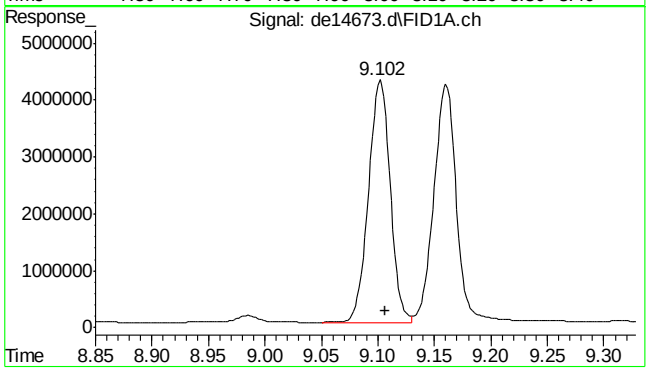
#7 acenaphthene

R.T.: 7.282 min
Delta R.T.: -0.003 min
Response: 5957493
Conc: 42.77 µg/ml



#8 fluorene

R.T.: 7.927 min
Delta R.T.: -0.002 min
Response: 5819321
Conc: 45.30 µg/ml



#9 phenanthrene

R.T.: 9.102 min
Delta R.T.: -0.005 min
Response: 5709676
Conc: 45.71 µg/ml

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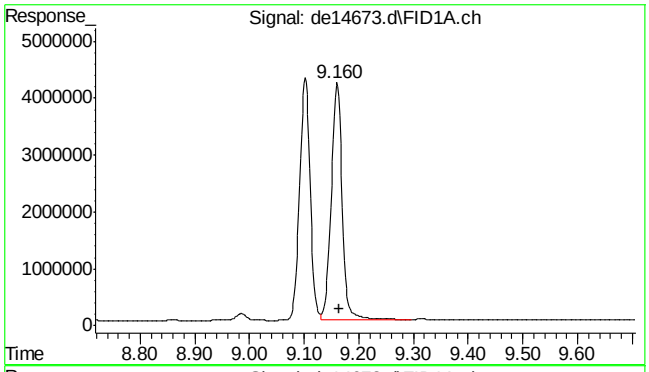
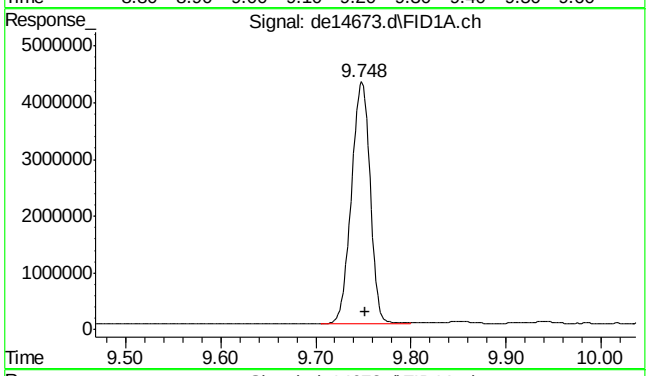


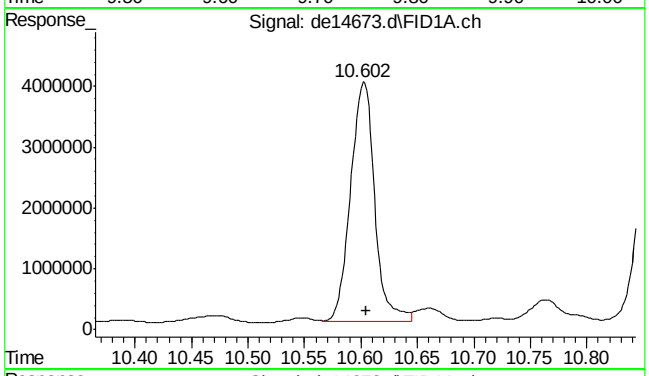
#10 anthracene

R.T.: 9.160 min
Delta R.T.: -0.003 min
Response: 5877713
Conc: 44.18 µg/ml



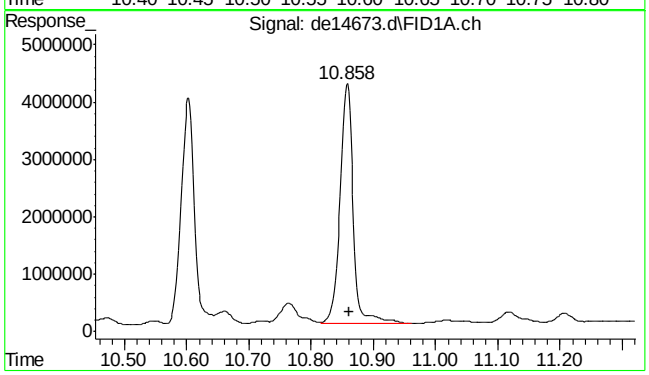
#11 o-terphenyl

R.T.: 9.748 min
Delta R.T.: -0.003 min
Response: 5818429
Conc: 43.98 µg/ml



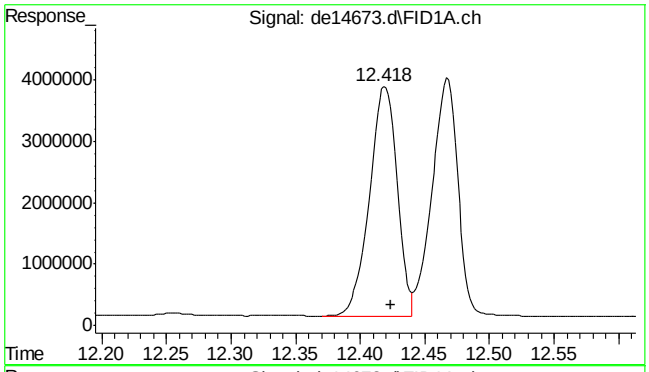
#12 fluoranthene

R.T.: 10.602 min
Delta R.T.: -0.003 min
Response: 5843258
Conc: 45.56 µg/ml



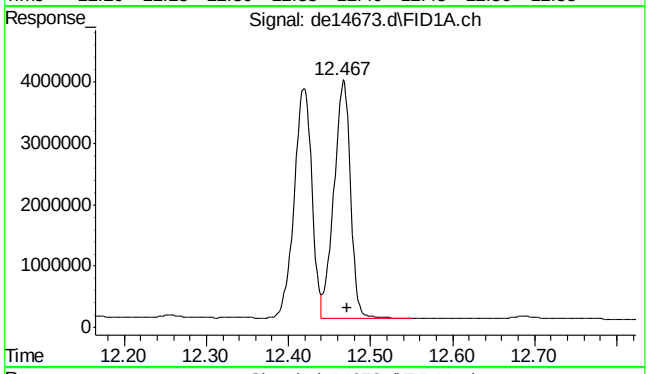
#13 pyrene

R.T.: 10.858 min
Delta R.T.: -0.003 min
Response: 6133432
Conc: 46.70 µg/ml



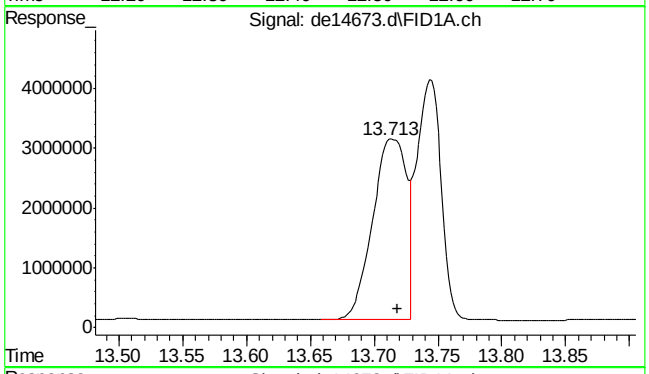
#14 benzo(a)anthracene

R.T.: 12.418 min
Delta R.T.: -0.005 min
Response: 5593098
Conc: 46.04 µg/ml



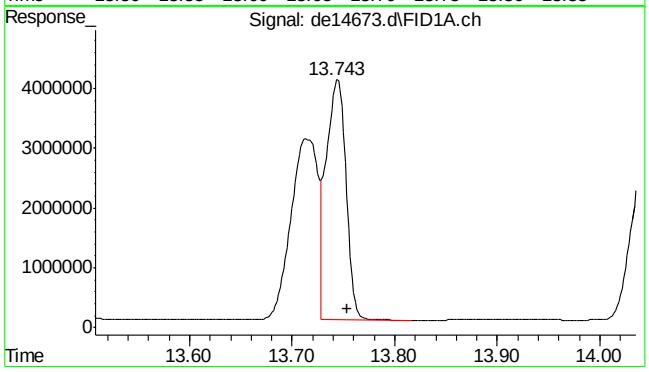
#15 chrysene

R.T.: 12.467 min
Delta R.T.: -0.005 min
Response: 5419101
Conc: 42.45 µg/ml



#16 benzo(B)fluoranthene

R.T.: 13.713 min
Delta R.T.: -0.005 min
Response: 5686083
Conc: 48.03 µg/ml m



#17 benzo(k)fluoranthene

R.T.: 13.743 min
Delta R.T.: -0.010 min
Response: 5296656
Conc: 41.37 µg/ml m

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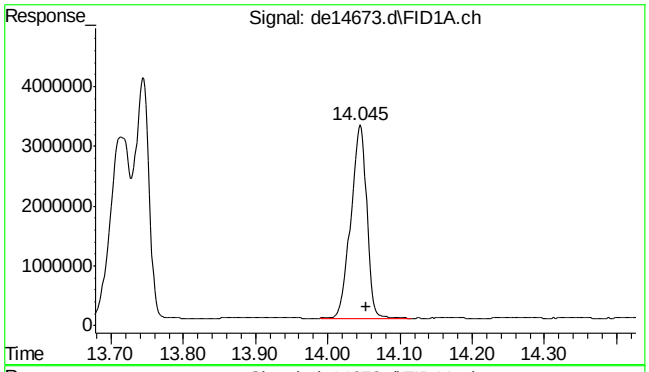
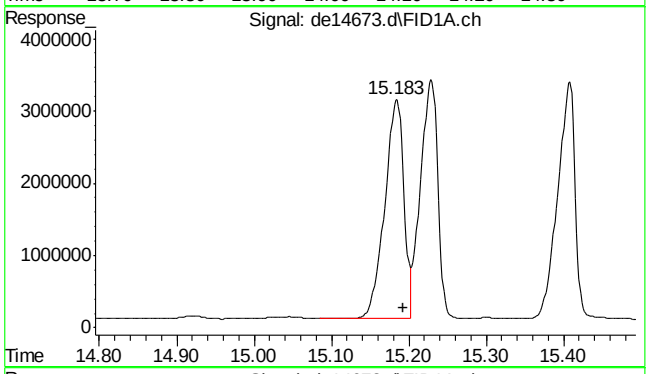


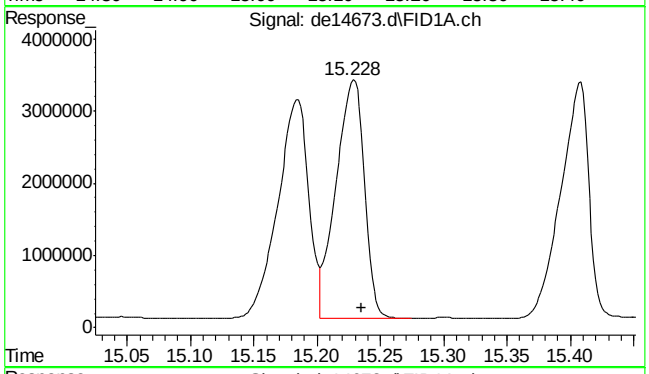
#18 benzo(a)pyrene

R.T.: 14.045 min
Delta R.T.: -0.008 min
Response: 4932114
Conc: 41.81 µg/ml



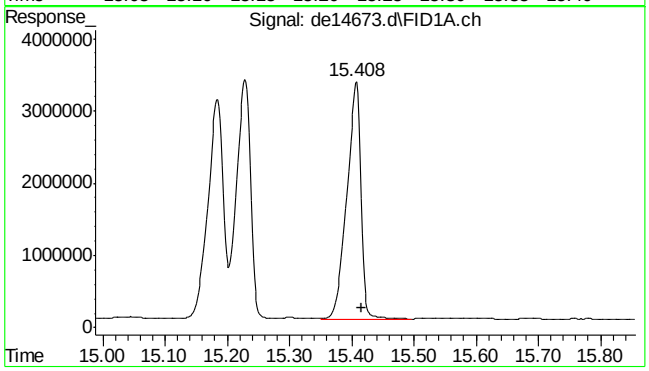
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.183 min
Delta R.T.: -0.010 min
Response: 5189319
Conc: 44.34 µg/ml m



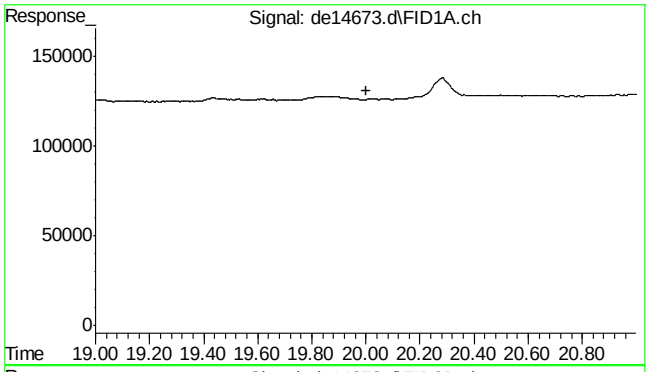
#20 dibenzo(ah)anthracene

R.T.: 15.228 min
Delta R.T.: -0.007 min
Response: 5167436
Conc: 45.61 µg/ml m



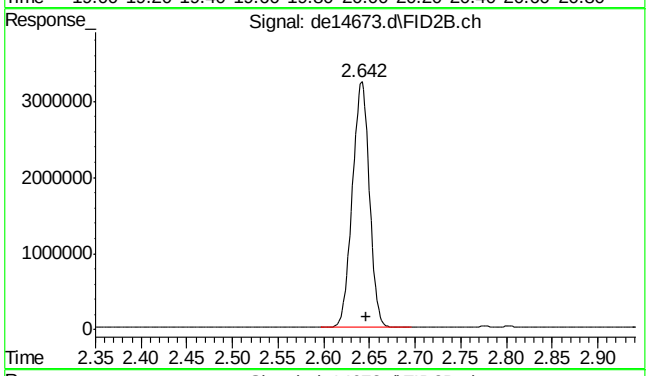
#21 benzo(ghi)perylene

R.T.: 15.408 min
Delta R.T.: -0.008 min
Response: 5139087
Conc: 45.29 µg/ml



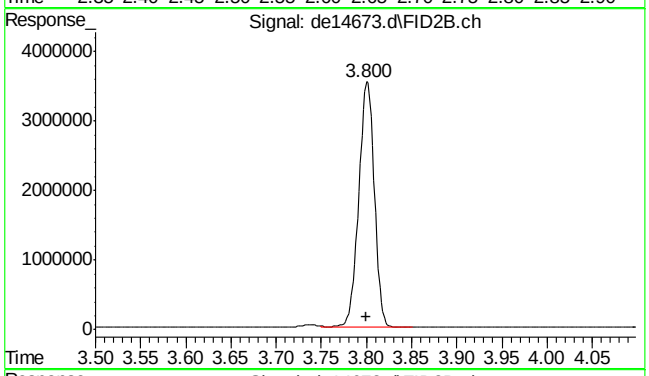
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



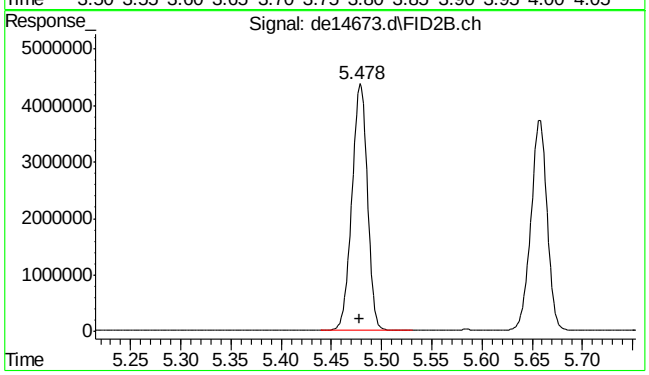
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4195241
Conc: 49.76 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4290577
Conc: 50.89 µg/ml



#27 naphthalene #2

R.T.: 5.478 min
Delta R.T.: 0.000 min
Response: 4634254
Conc: 50.98 µg/ml

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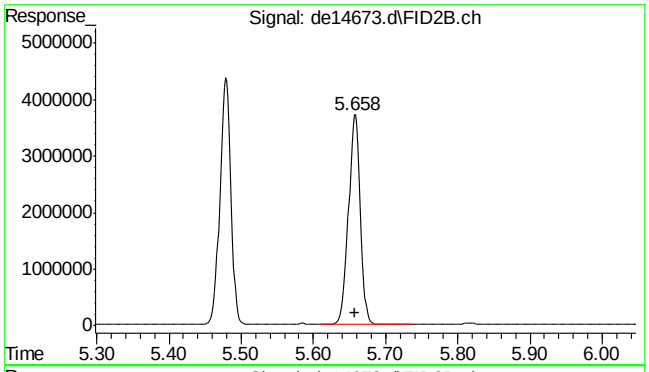
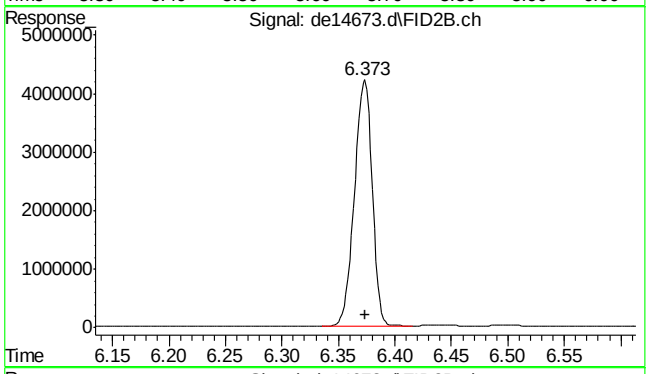


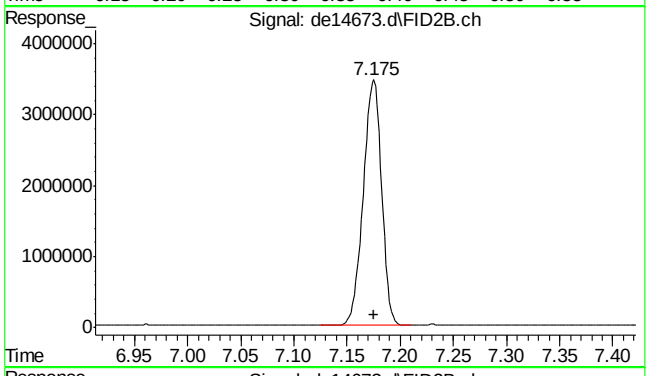
#28 c-12

R.T.: 5.658 min
Delta R.T.: 0.001 min
Response: 4207991
Conc: 49.91 µg/ml



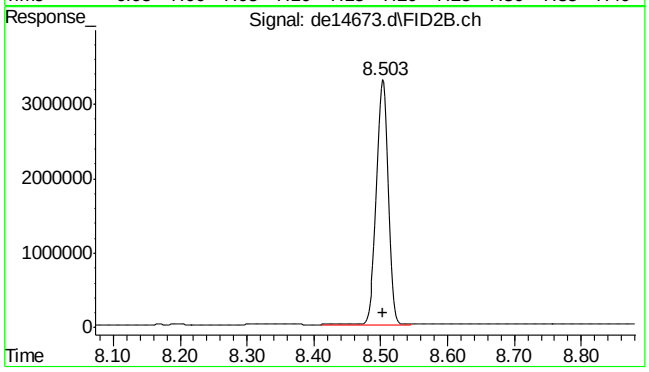
#29 2-methylnaphthalene #2

R.T.: 6.373 min
Delta R.T.: 0.000 min
Response: 4557390
Conc: 50.67 µg/ml



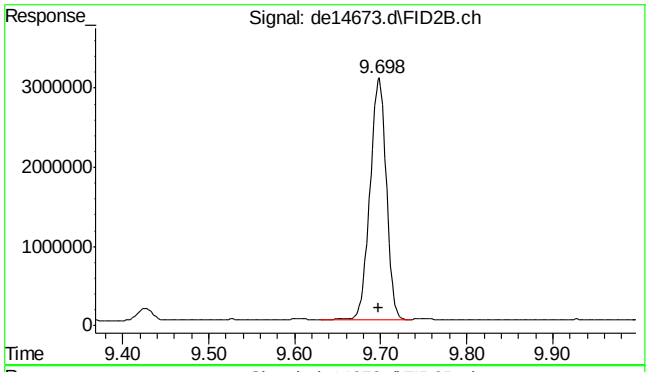
#30 c-14

R.T.: 7.175 min
Delta R.T.: 0.000 min
Response: 4164771
Conc: 49.40 µg/ml



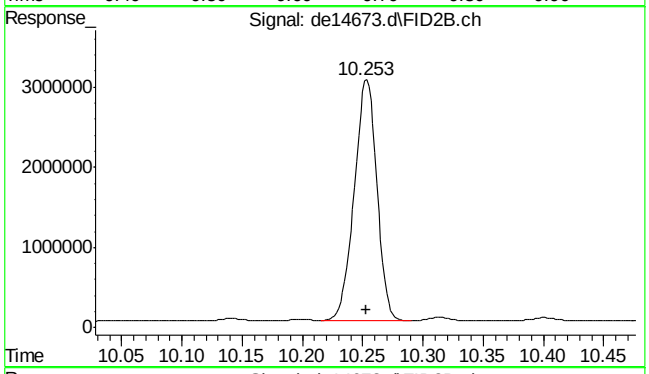
#31 c-16

R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 4102769
Conc: 48.67 µg/ml



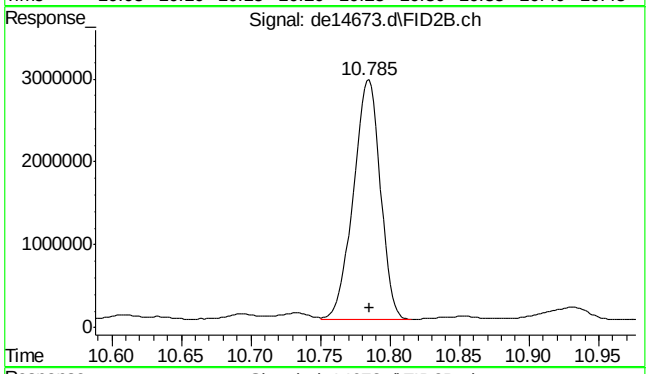
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 4021156
Conc: 47.70 µg/ml



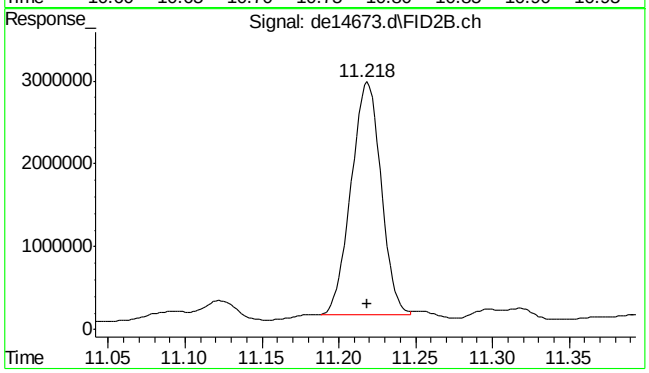
#33 c-19

R.T.: 10.253 min
Delta R.T.: 0.000 min
Response: 3951249
Conc: 50.77 µg/ml



#34 c-20

R.T.: 10.785 min
Delta R.T.: 0.000 min
Response: 3904441
Conc: 50.17 µg/ml



#35 1-chlorooctadecane

R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 3828846
Conc: 58.77 µg/ml m

9.4.8

9

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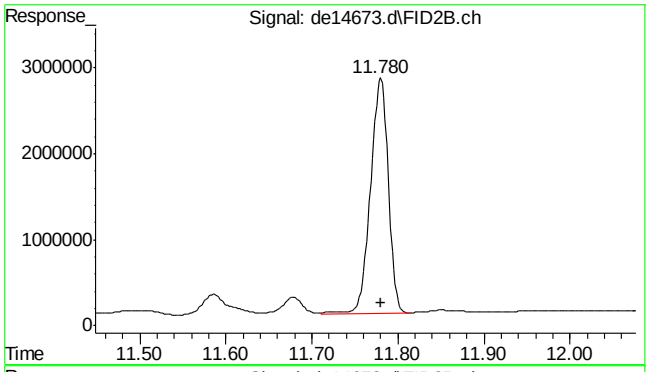
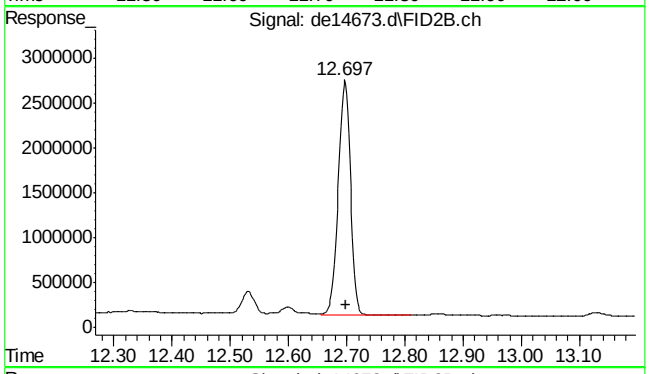


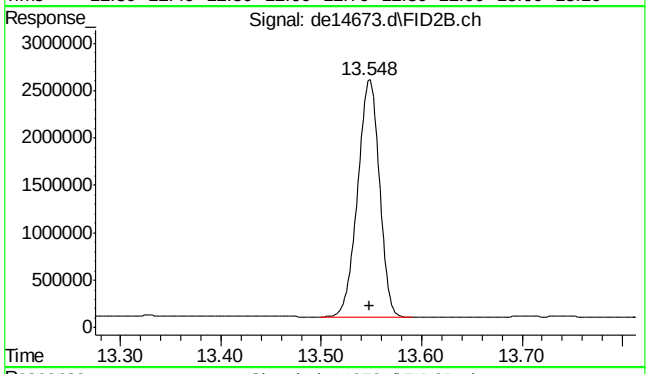
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 3927561
Conc: 50.47 µg/ml



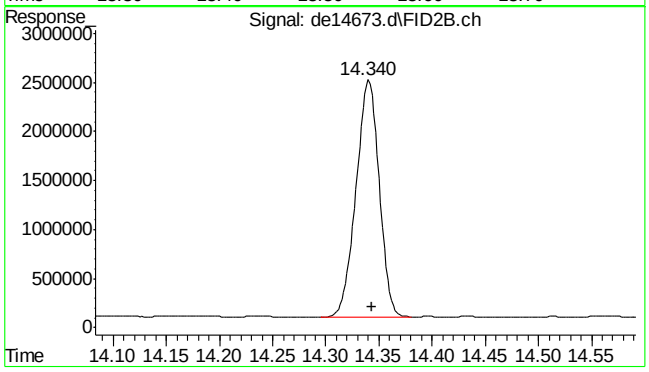
#37 c-24

R.T.: 12.697 min
Delta R.T.: -0.001 min
Response: 3872214
Conc: 49.76 µg/ml



#38 c-26

R.T.: 13.548 min
Delta R.T.: 0.000 min
Response: 3756324
Conc: 48.27 µg/ml



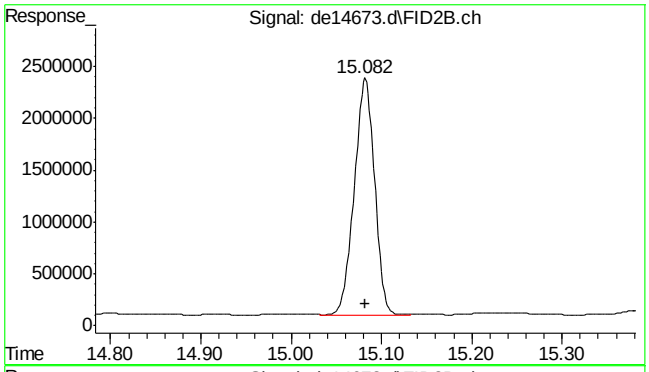
#39 c-28

R.T.: 14.340 min
Delta R.T.: -0.003 min
Response: 3684091
Conc: 47.34 µg/ml

9.4.8

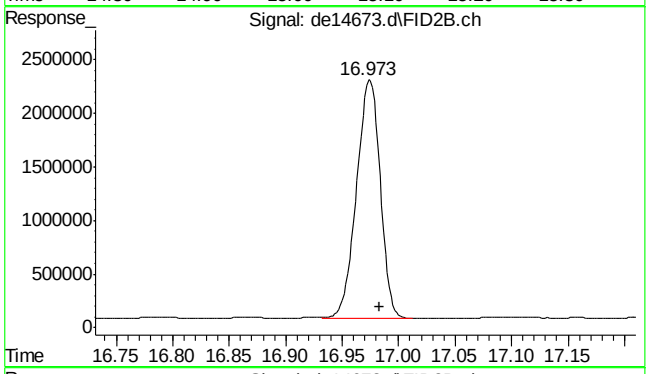
9

SGS ACCUTEST MC46423



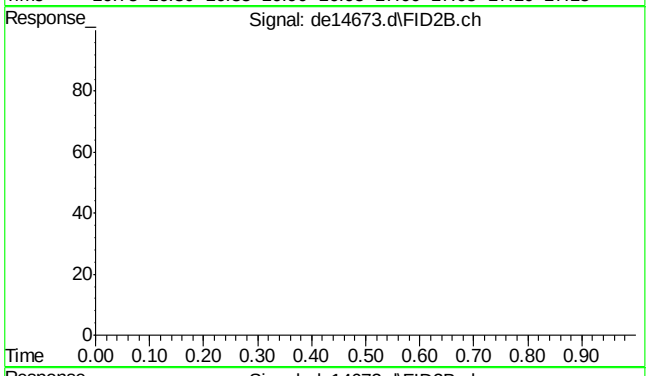
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3605357
Conc: 46.33 µg/ml



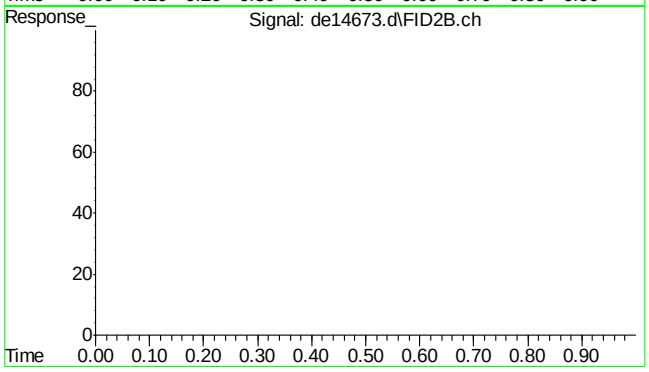
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3238093
Conc: 41.61 µg/ml m



#42 bht

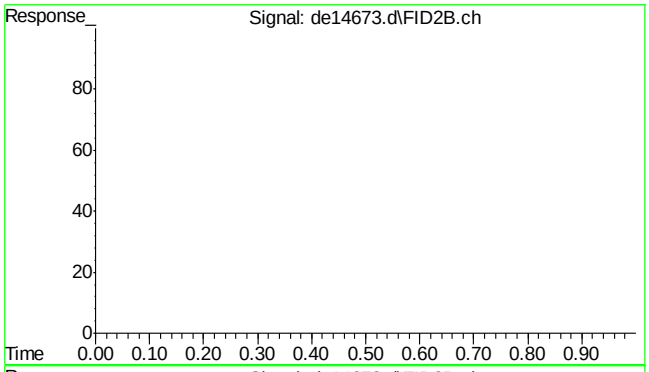
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

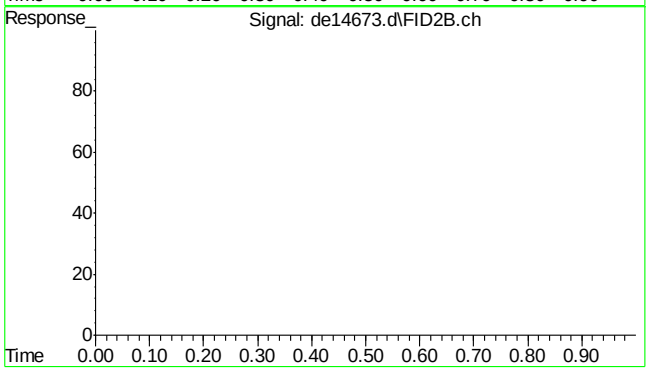
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#44 bht

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



#45 bht

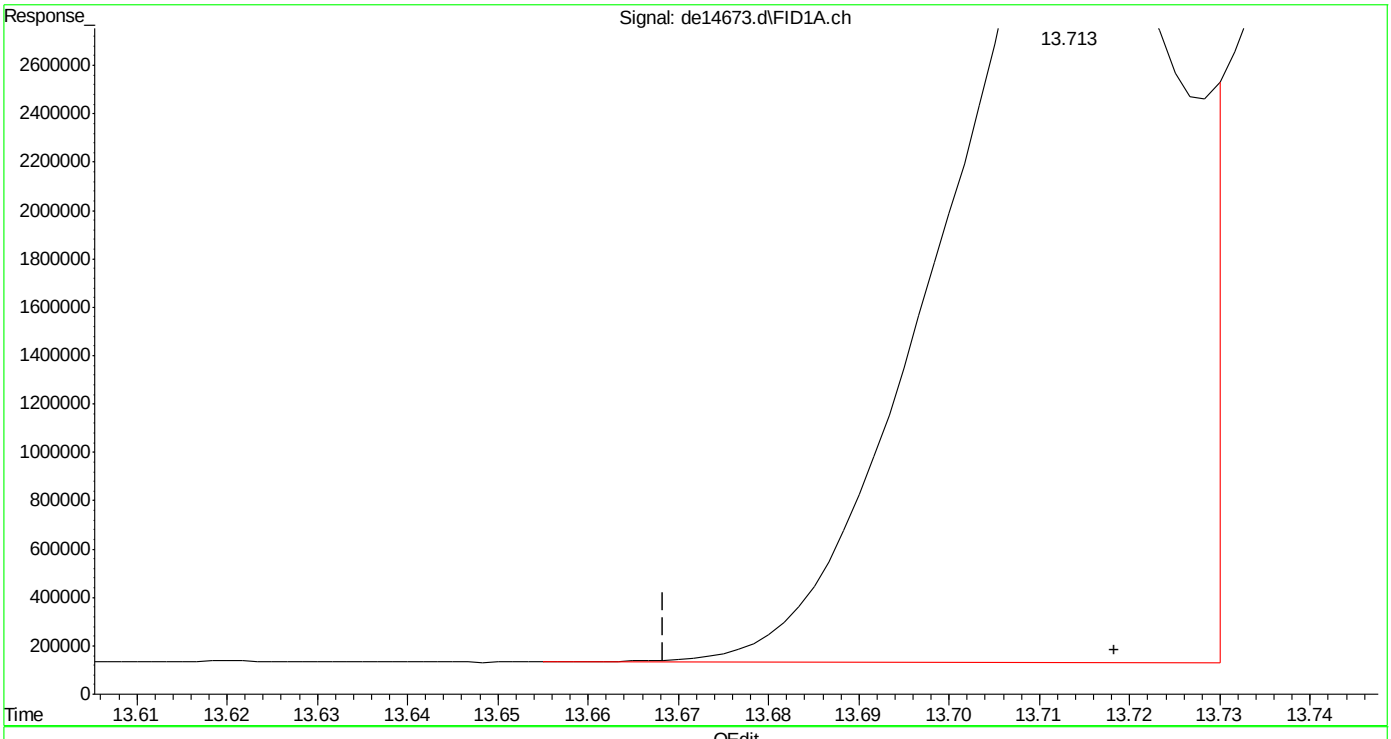
```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 22 Jun 2016   9:32 pm
Operator  : thomasa
Sample    : icv815-50
Misc      : op47862,gde815,1000,,,2,,w
ALS Vial  : 116   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title  : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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

13.713min 50.044 µg/ml

response 5925029

(+) = Expected Retention Time

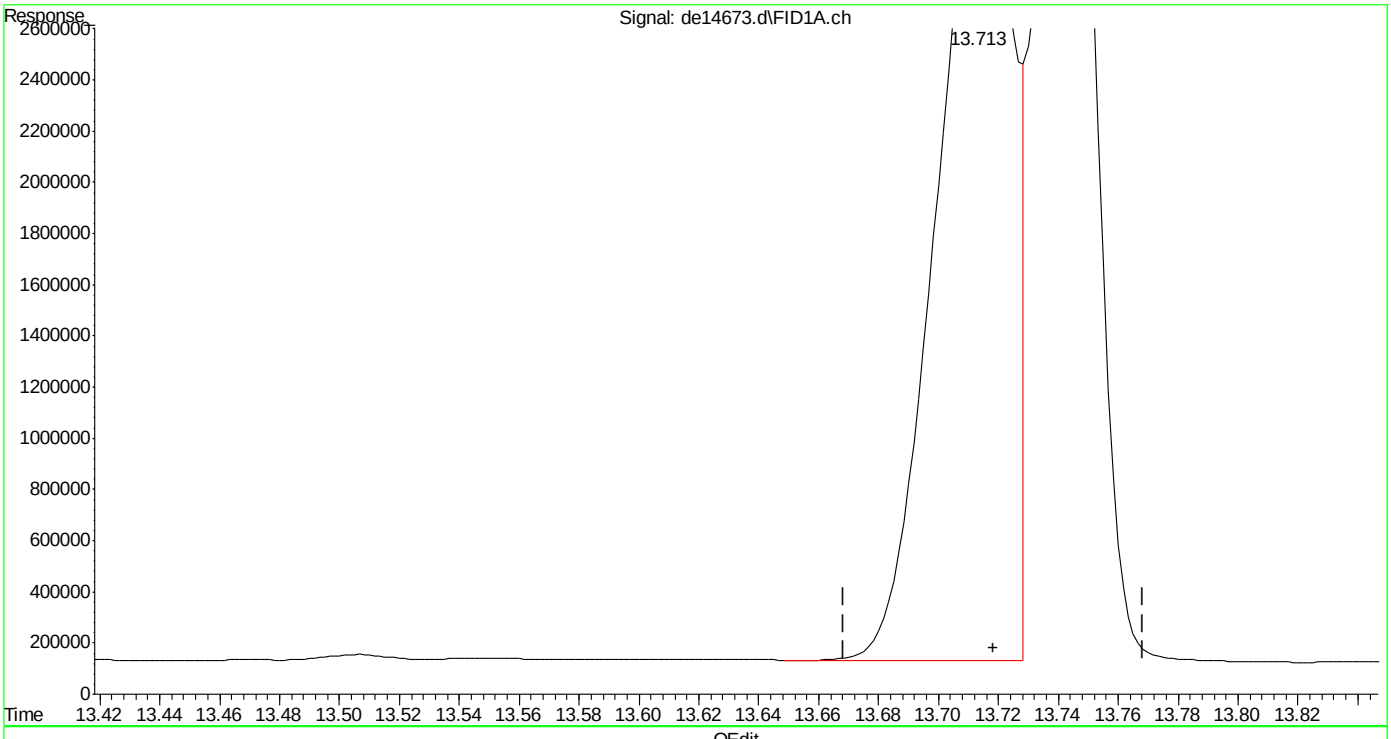
EPH160622W.M Thu Jun 23 08:03:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
13.713min 48.032 µg/ml m
response 5686875

(+) = Expected Retention Time

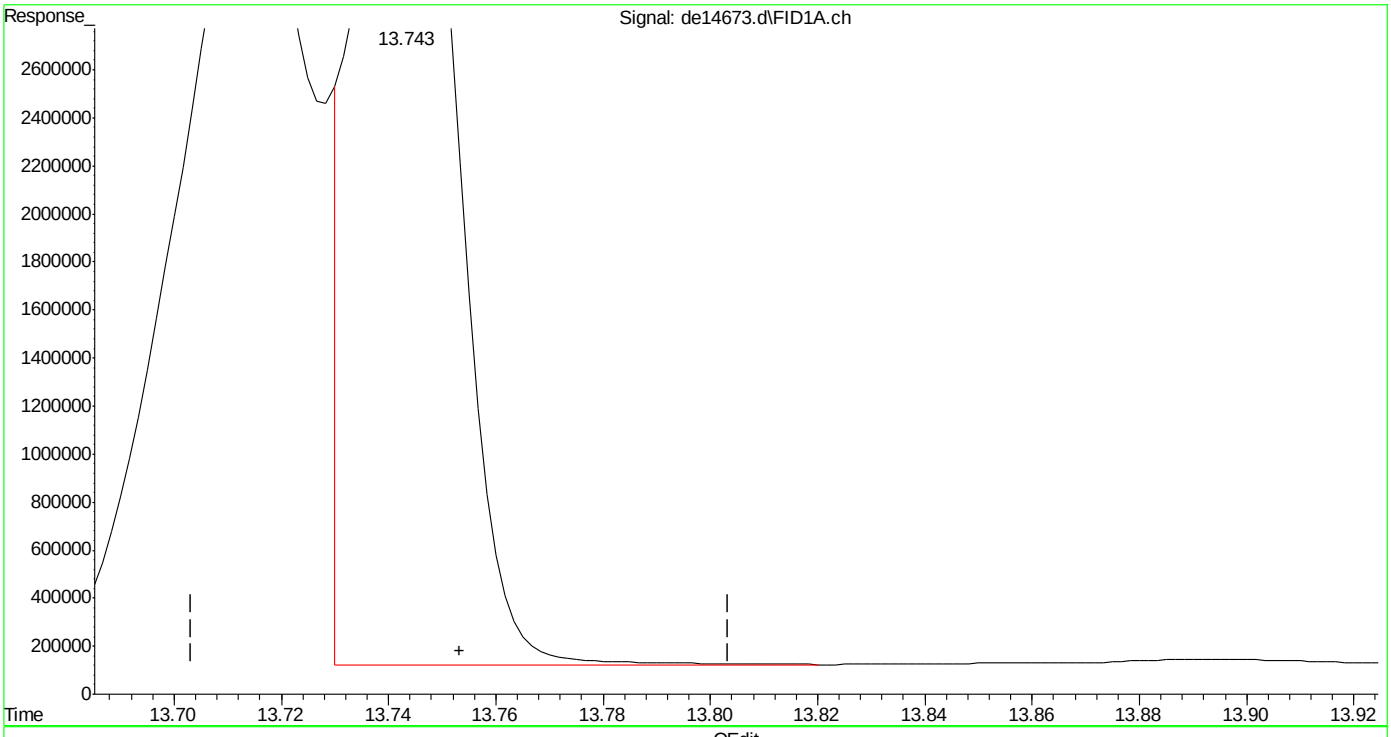
EPH160622W.M Thu Jun 23 08:04:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
13.743min 39.639 µg/ml
response 5074972

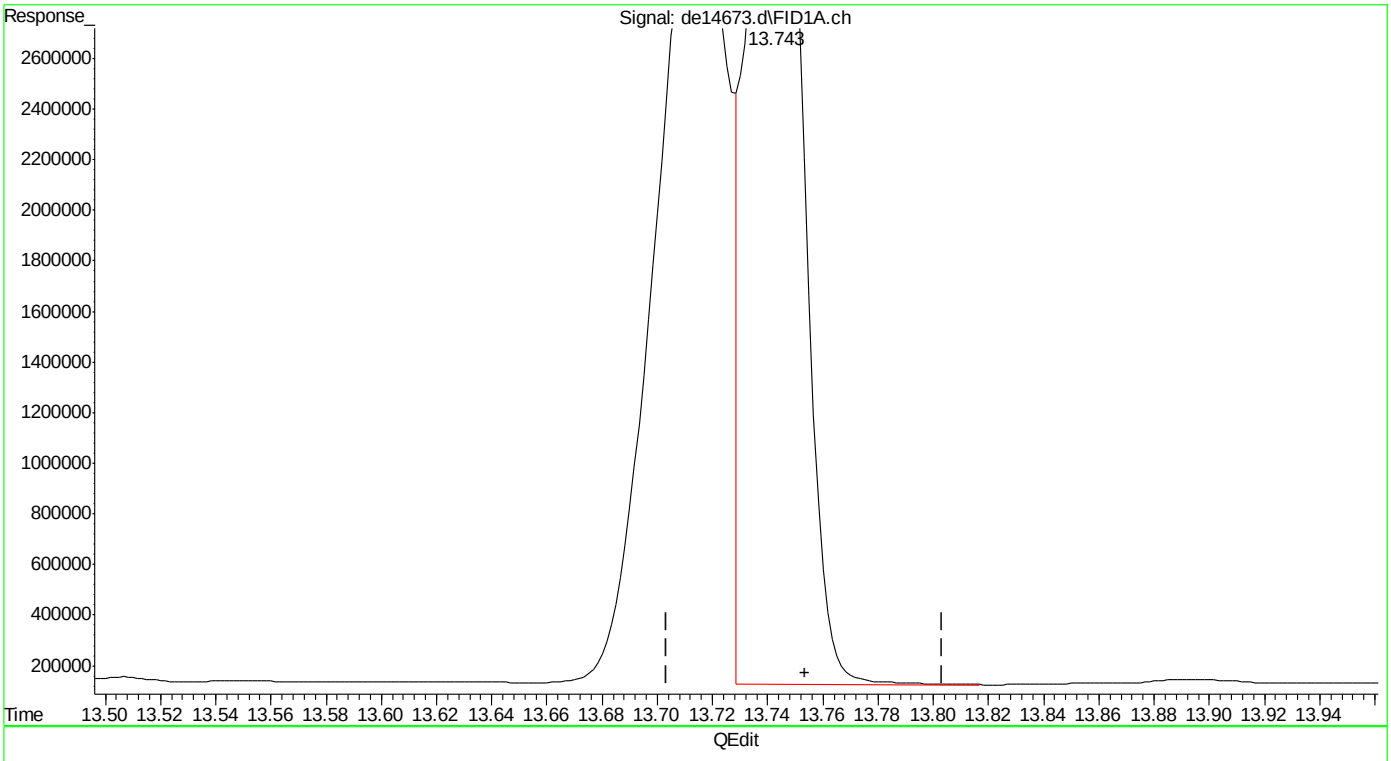
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
13.743min 41.502 µg/ml m
response 5313542

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:04:24 2016

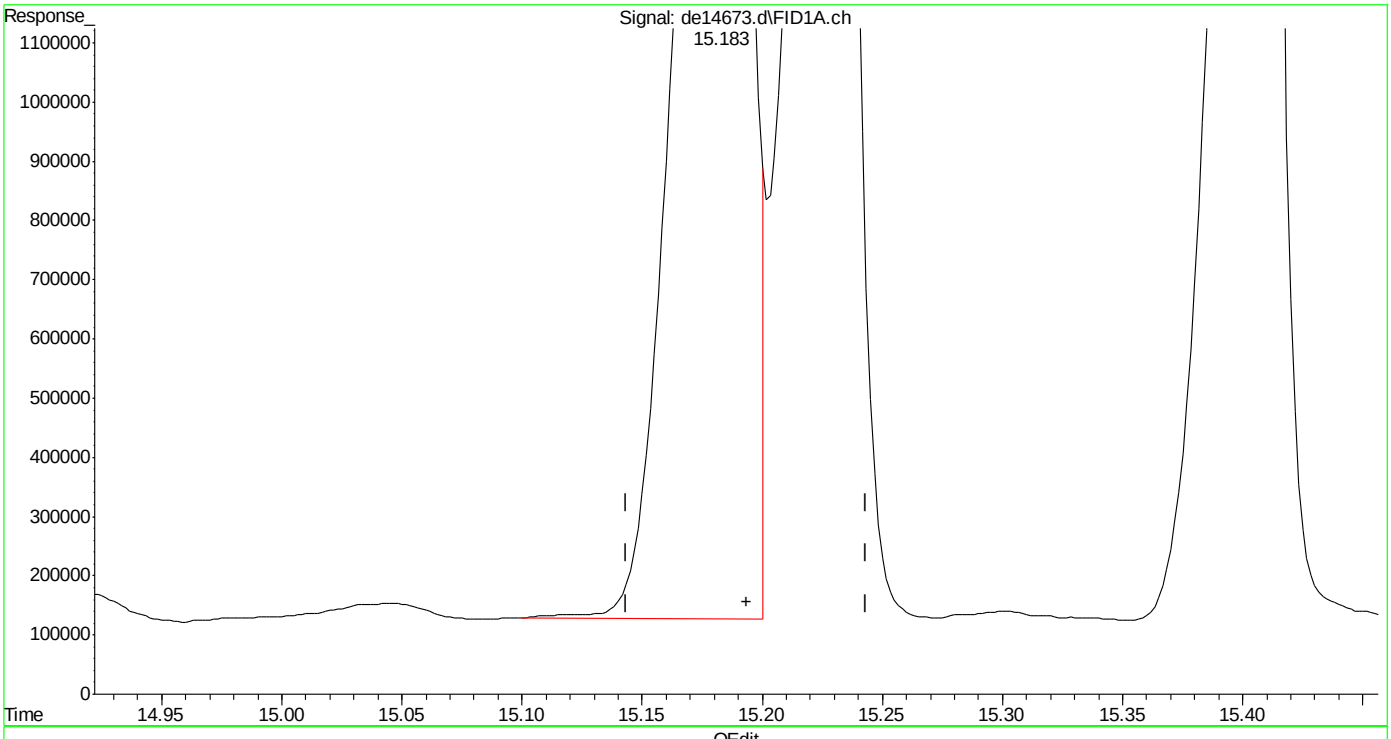
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
15.183min 43.751 µg/ml
response 5120914

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:04:29 2016

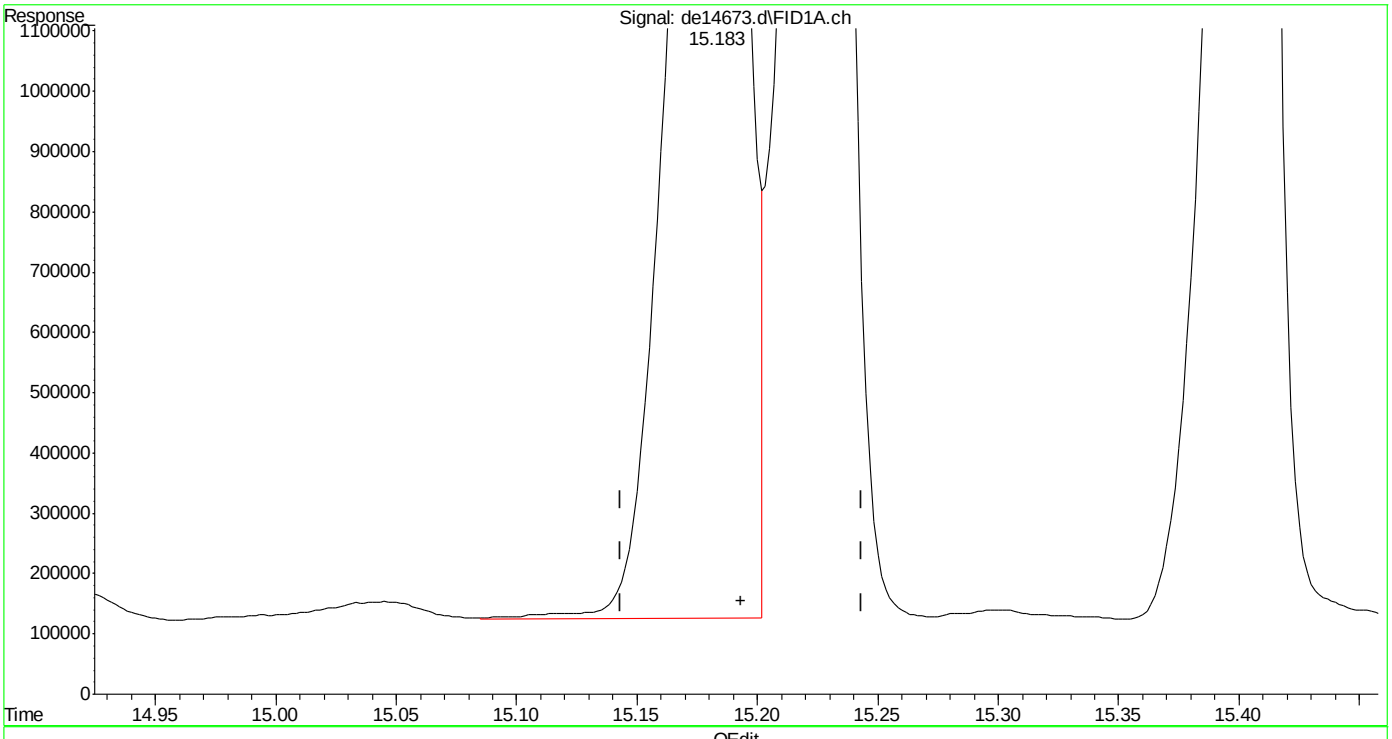
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
15.183min 44.472 µg/ml m
response 5205335

(+) = Expected Retention Time

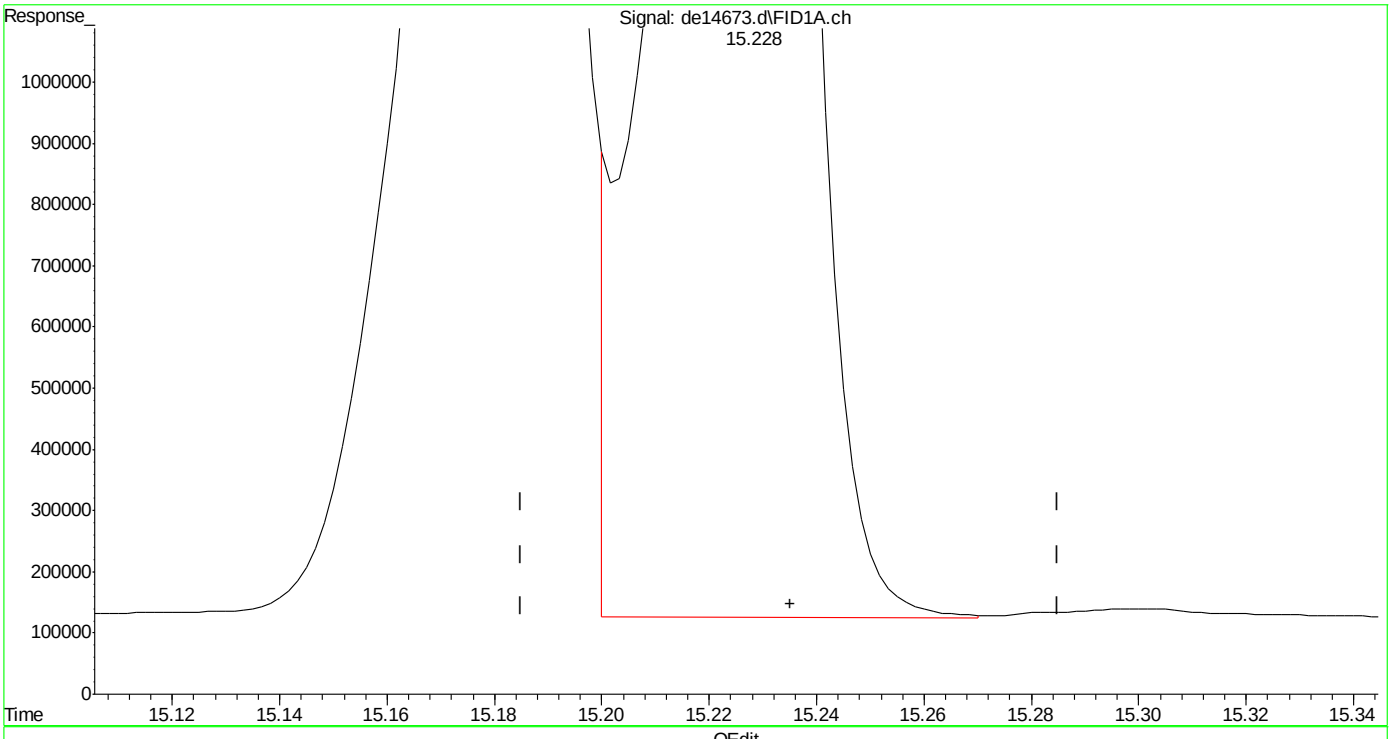
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
15.228min 46.183 µg/ml
response 5232864

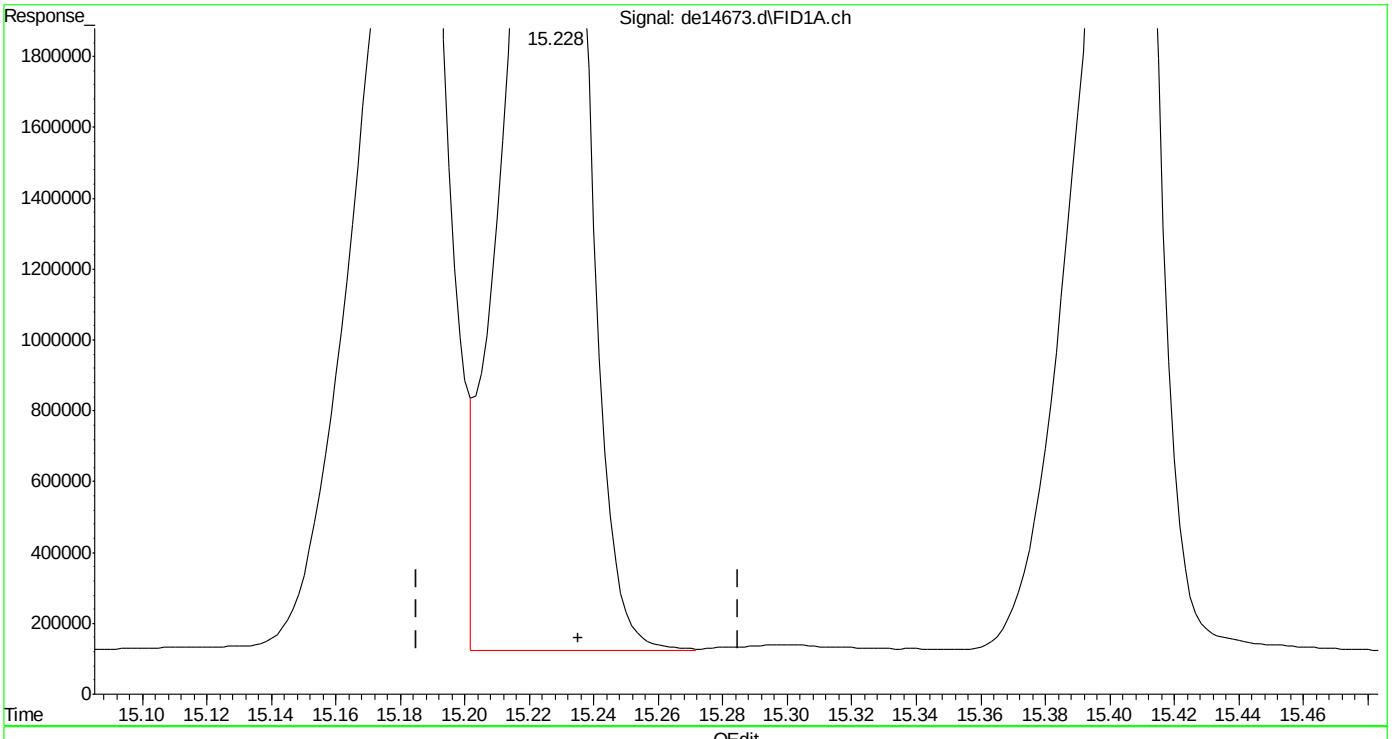
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:04:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 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
15.228min 45.649 µg/ml m
response 5172329

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 08:04:56 2016

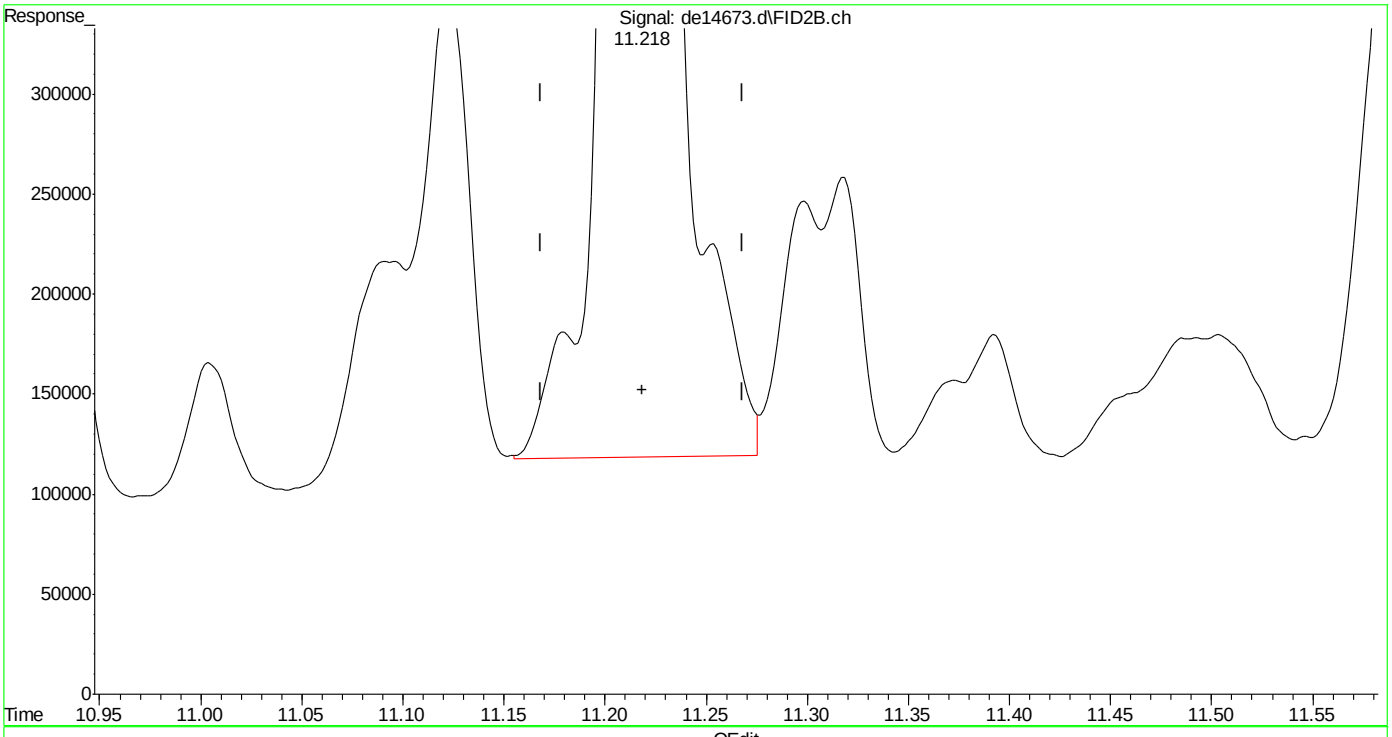
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 2016
Response via : Initial Calibration
Integrator: RTE

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



(35) 1-chlorooctadecane (s)
11.218min 64.775 µg/ml
response 4220313

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:05:10 2016

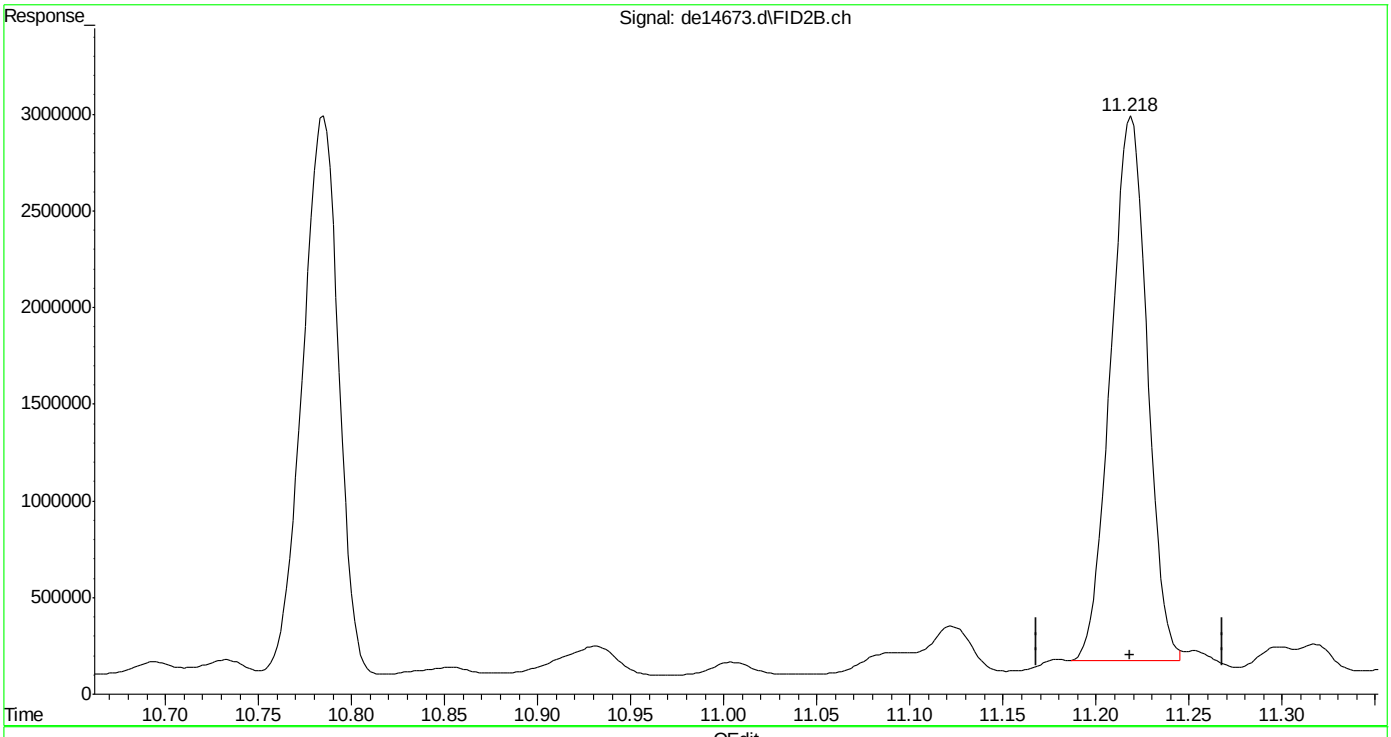
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:03:43 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:01:14 2016
Response via : Initial Calibration
Integrator: RTE

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



(35) 1-chlorooctadecane (s)
11.218min 58.820 µg/ml m
response 3832299

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:05:47 2016

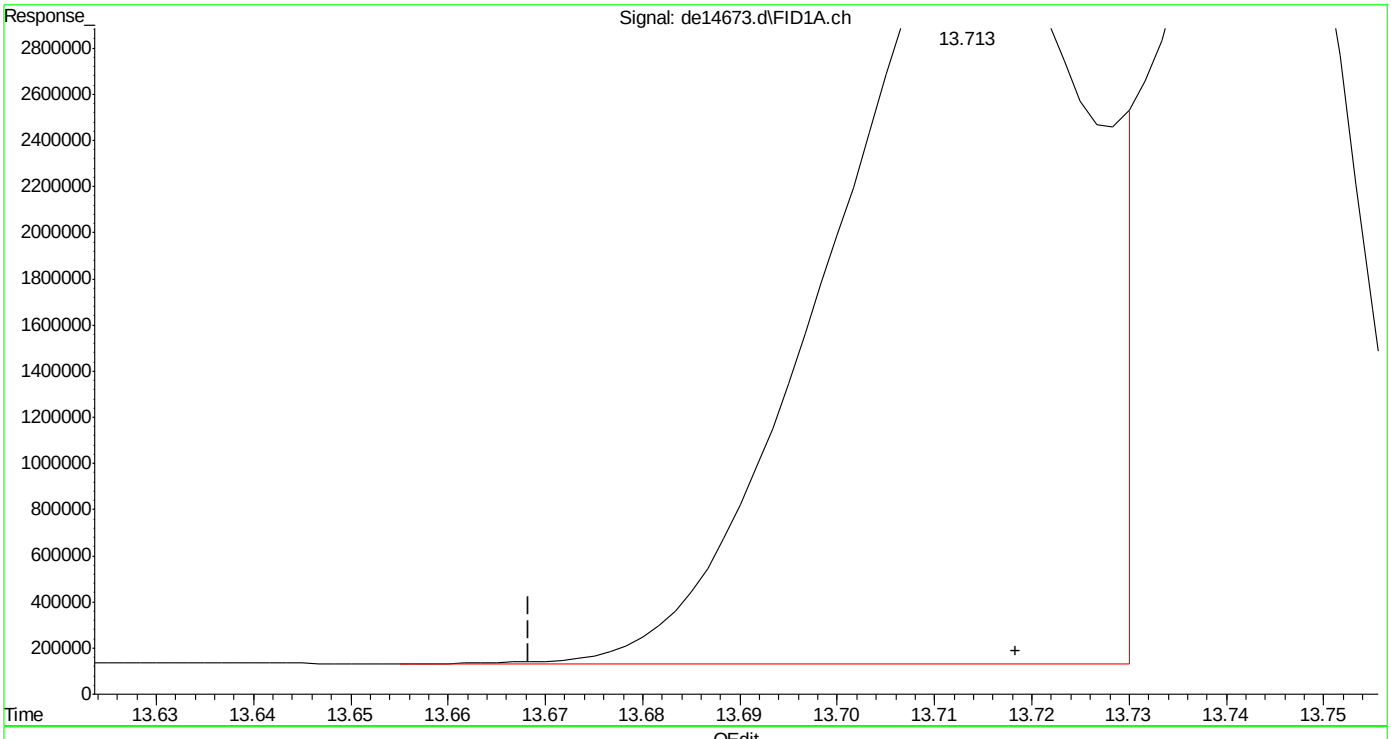
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
13.713min 50.044 µg/ml
response 5925029

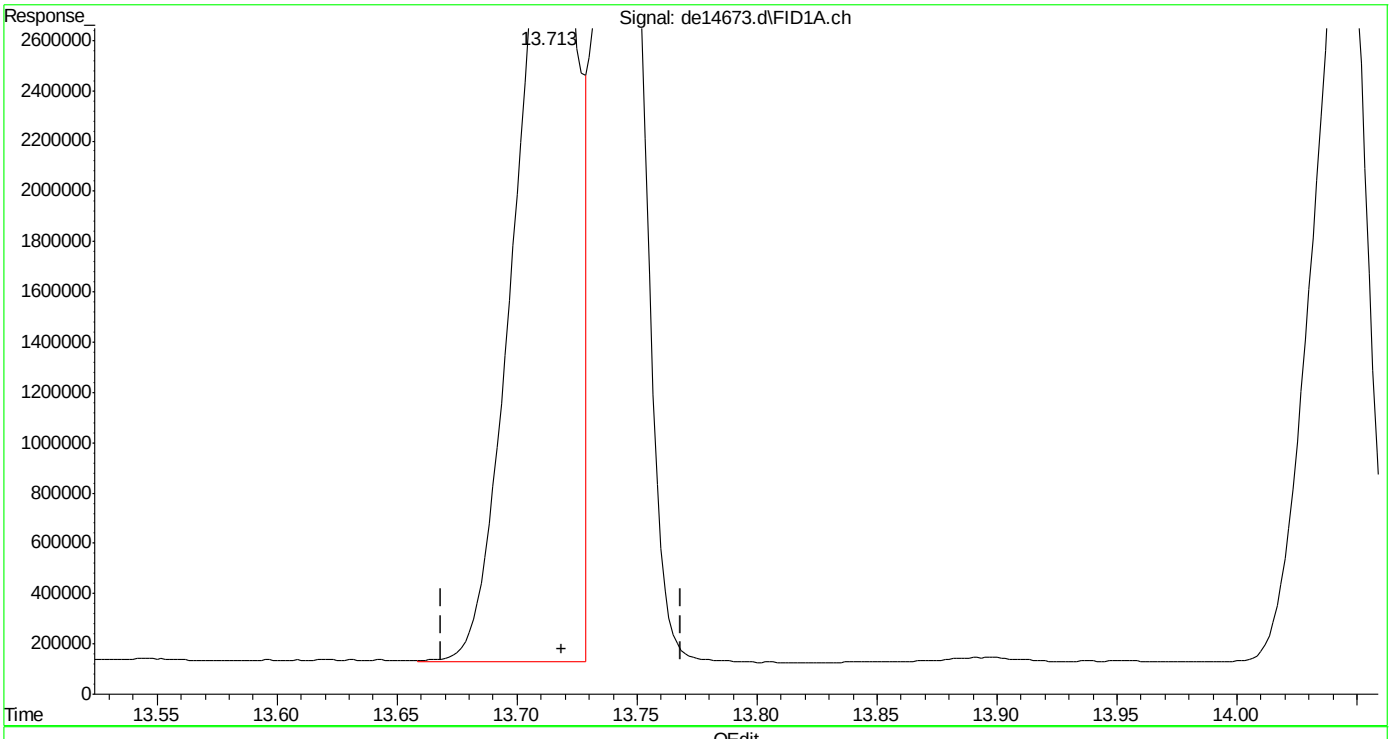
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
13.713min 48.026 µg/ml m
response 5686083

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 08:10:55 2016

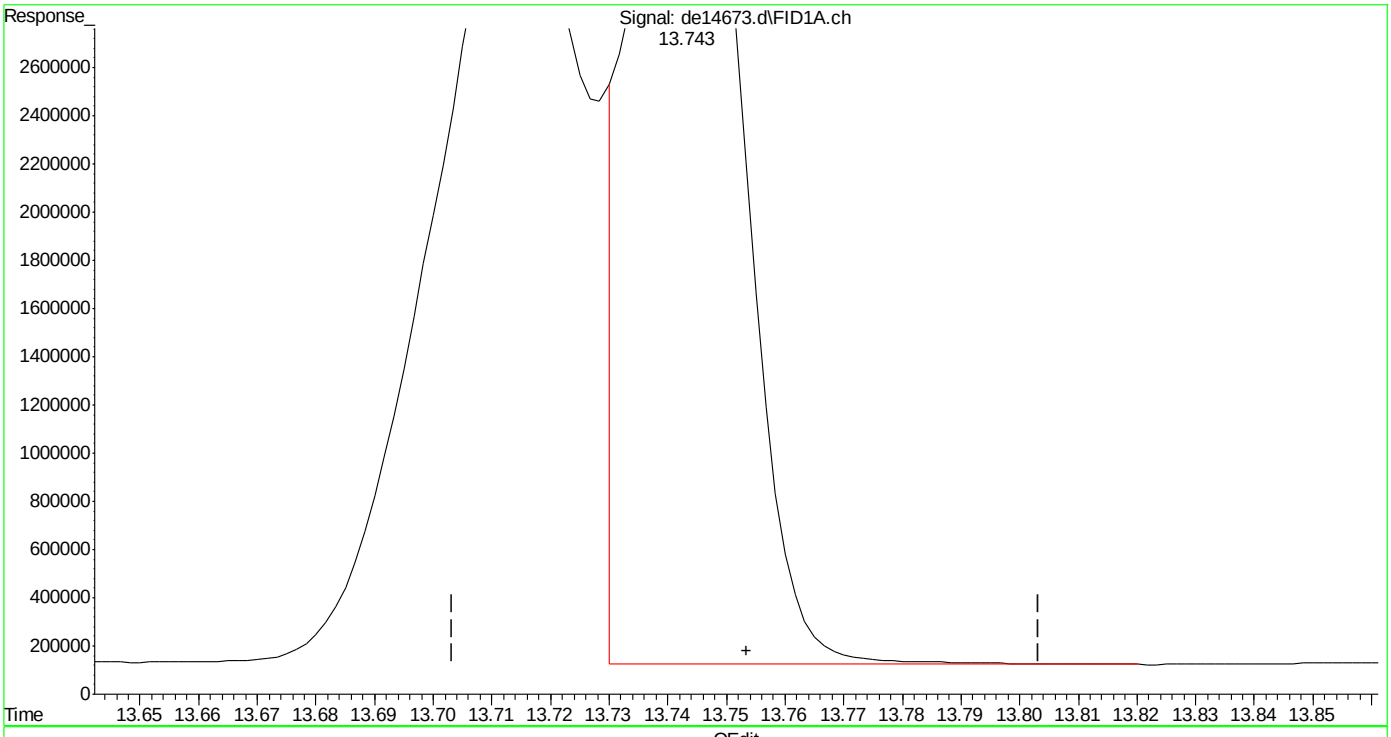
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
13.743min 39.639 µg/ml
response 5074972

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 08:10:59 2016

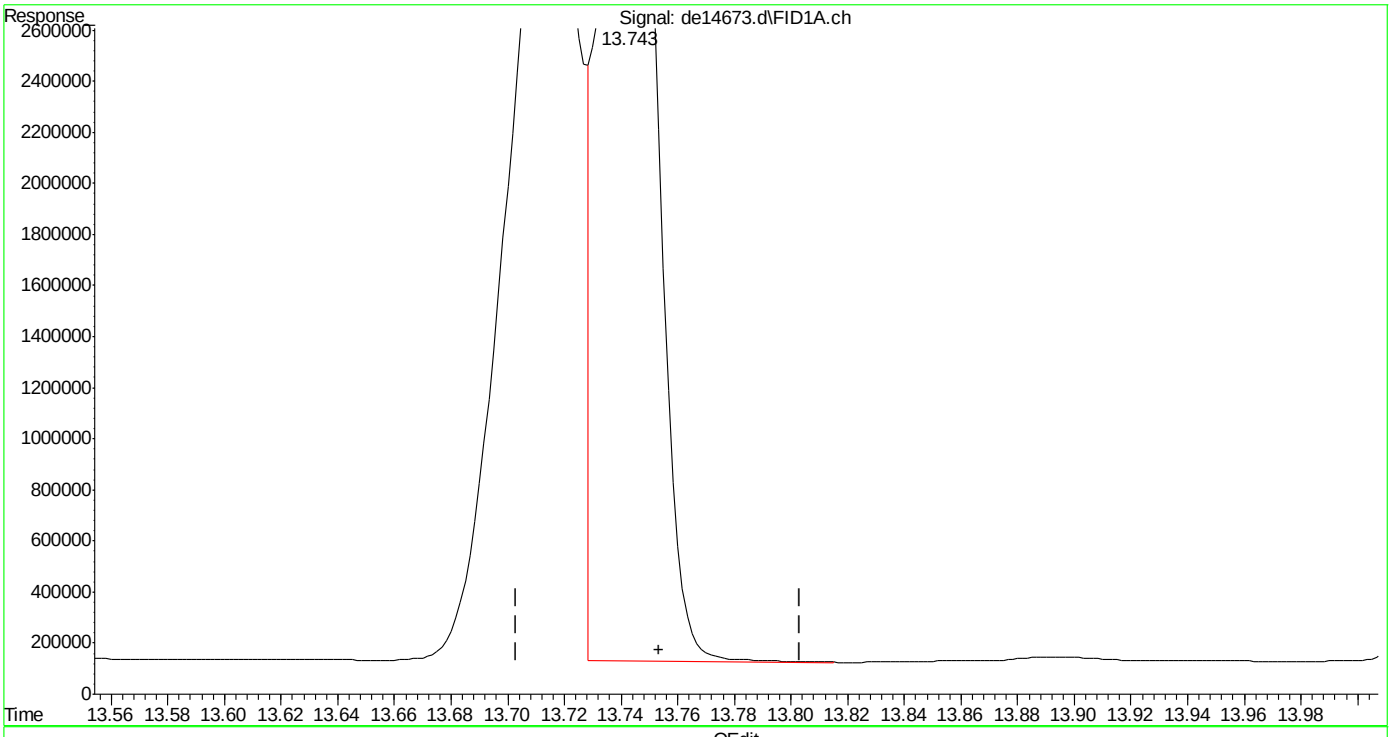
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
13.743min 41.370 µg/ml m
response 5296656

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:11:09 2016

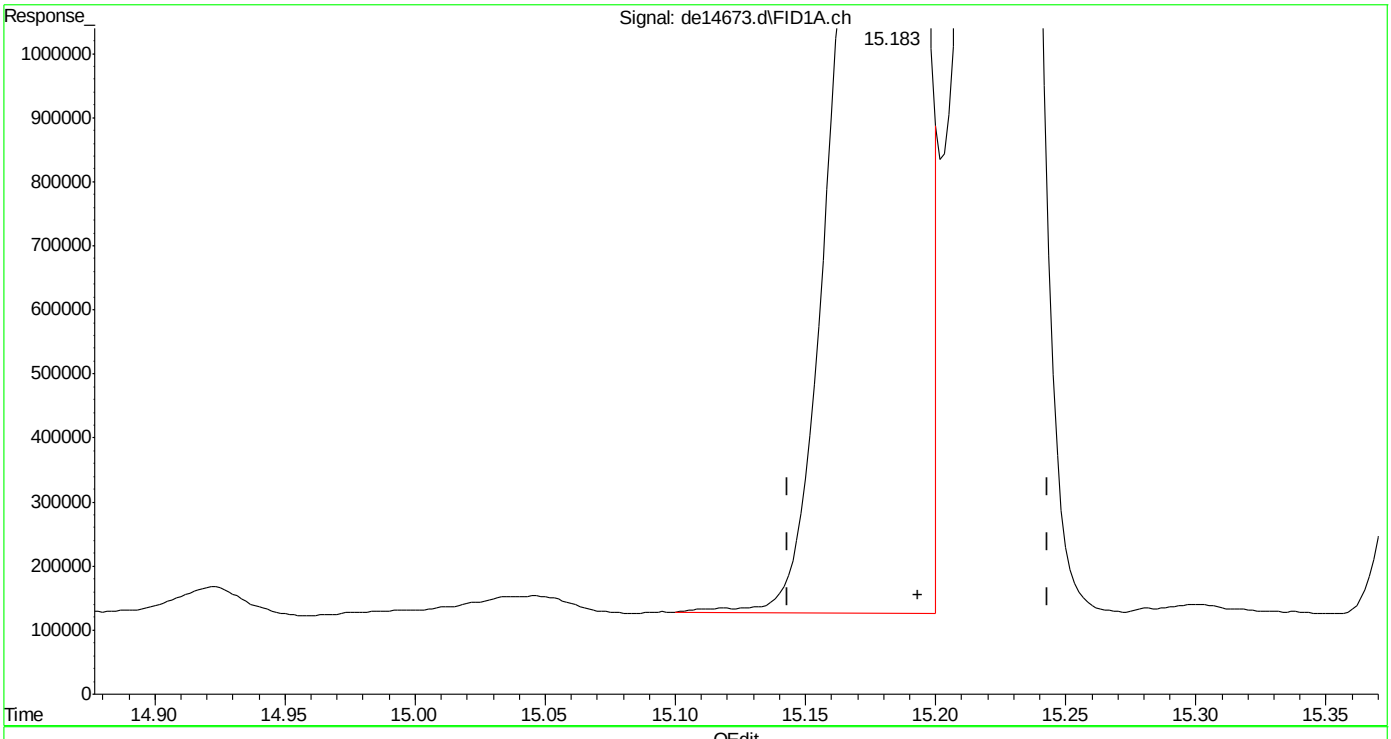
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
15.183min 43.751 µg/ml
response 5120914

(+) = Expected Retention Time

EPH160622W.M Thu Jun 23 08:11:14 2016

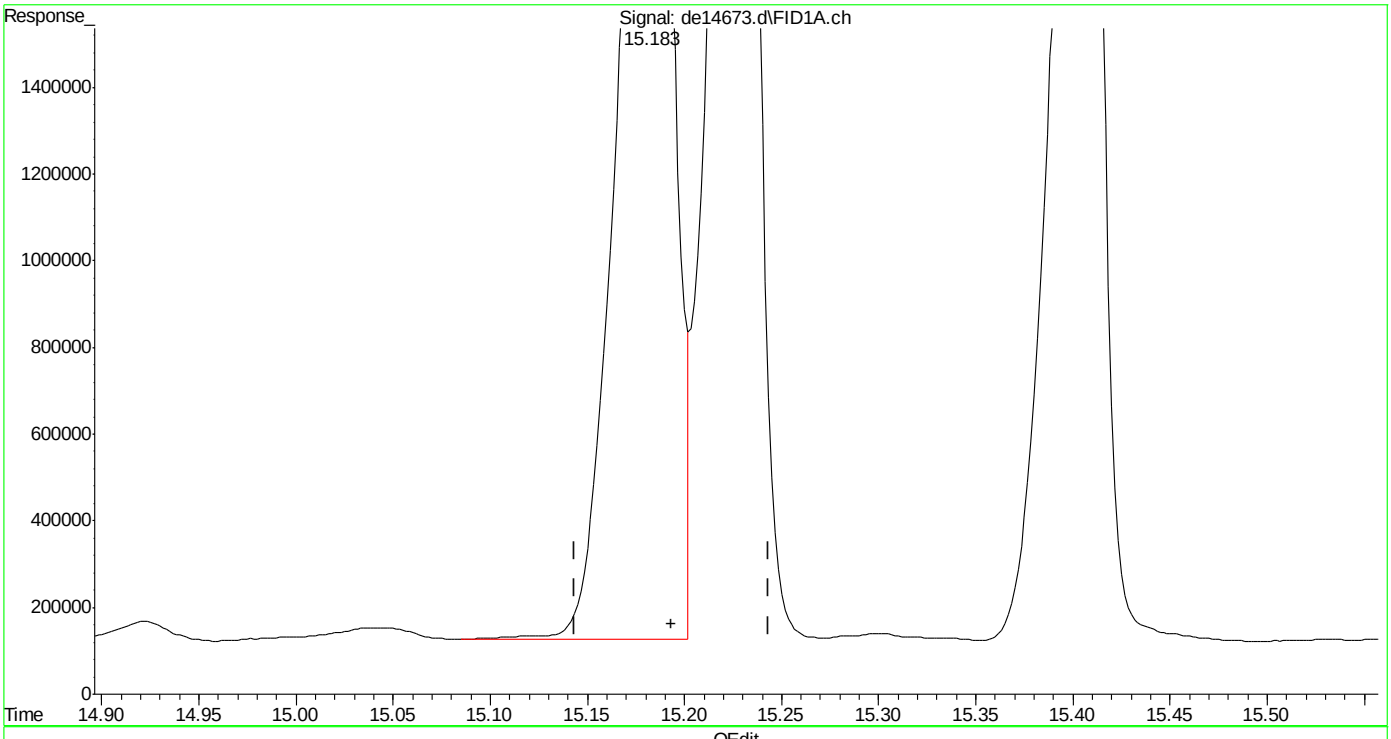
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
15.183min 44.336 µg/ml m
response 5189319

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:11:21 2016

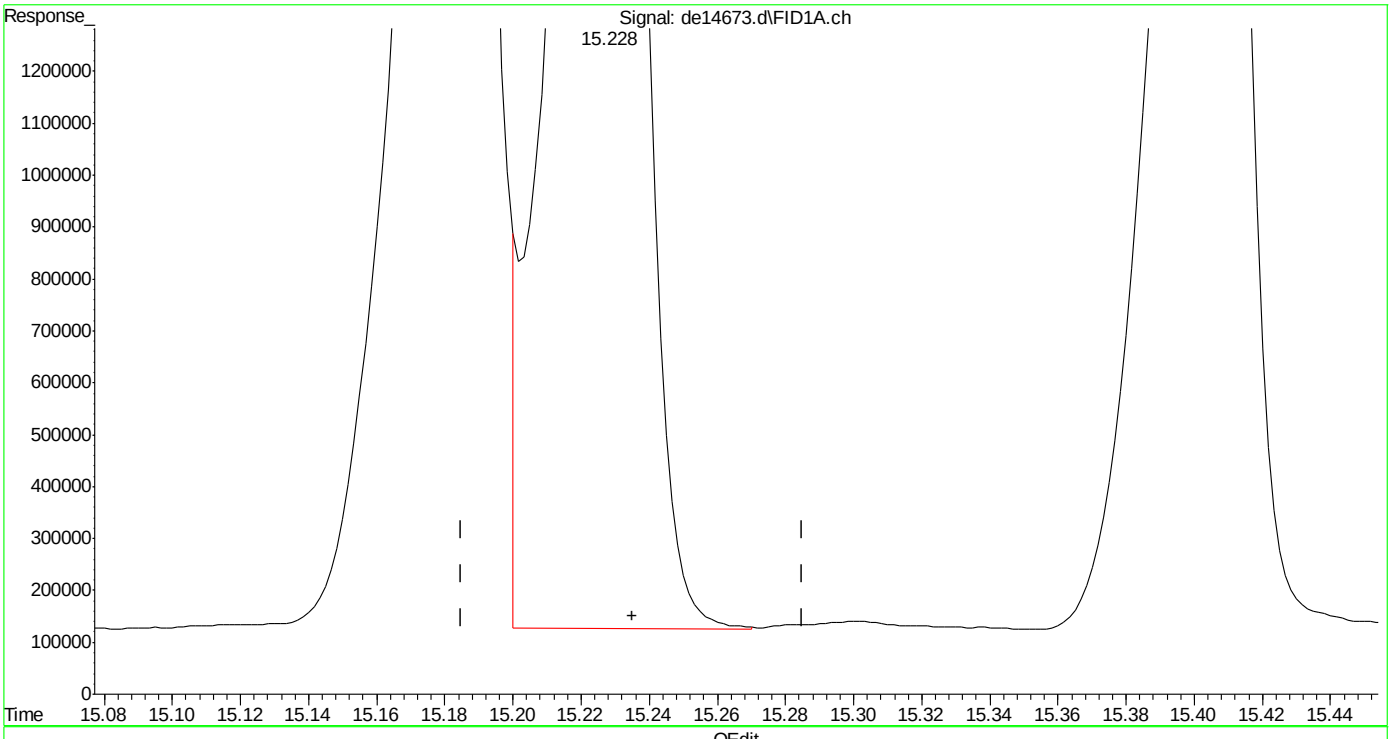
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
15.228min 46.183 µg/ml
response 5232864

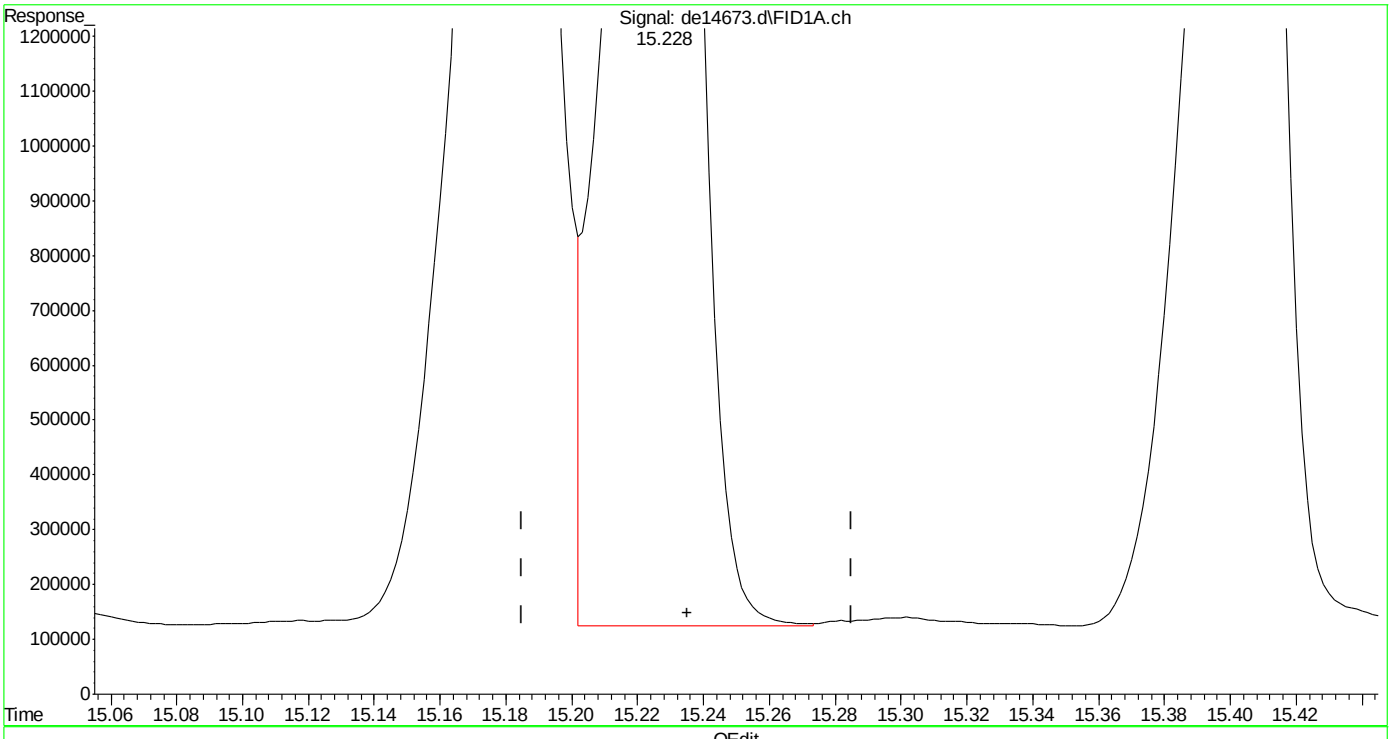
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 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
15.228min 45.606 µg/ml m
response 5167436

(+) = Expected Retention Time

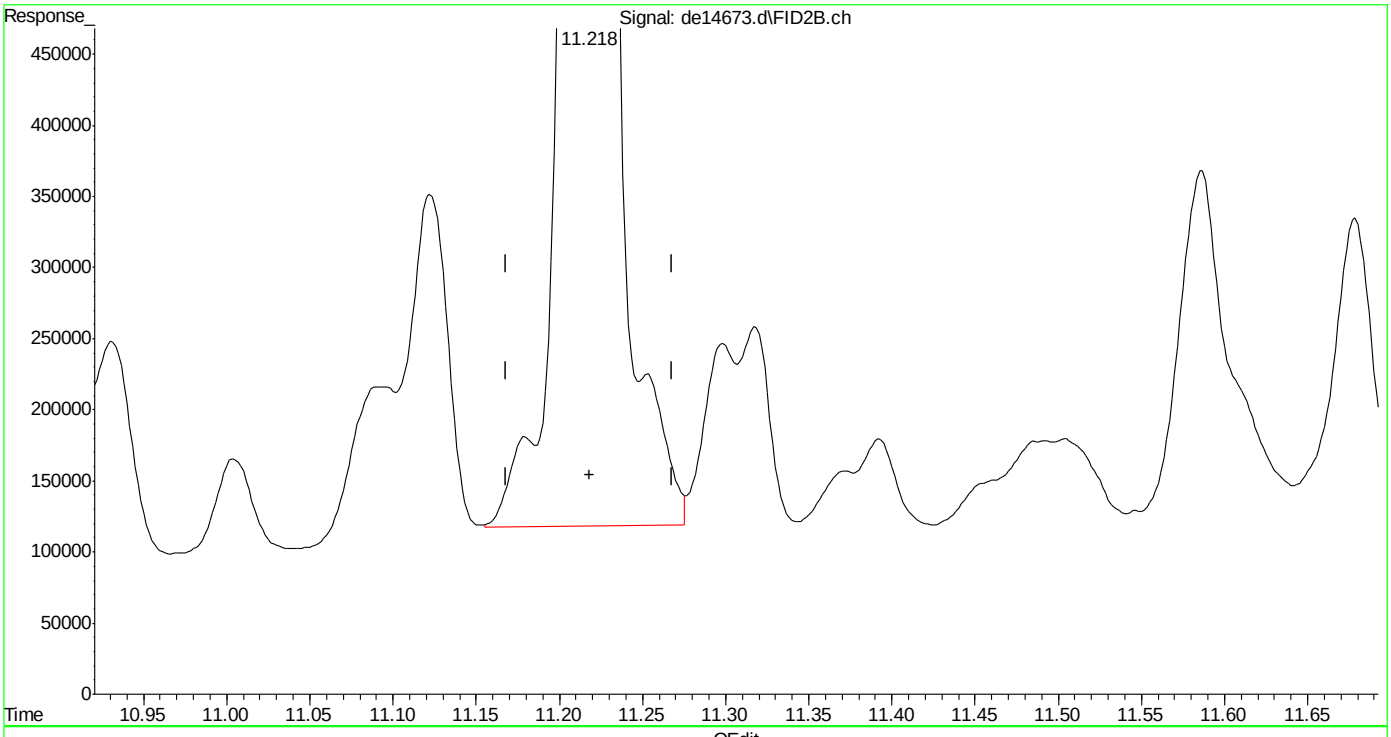
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(35) 1-chlorooctadecane (s)
11.218min 64.775 µg/ml
response 4220313

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:12:00 2016

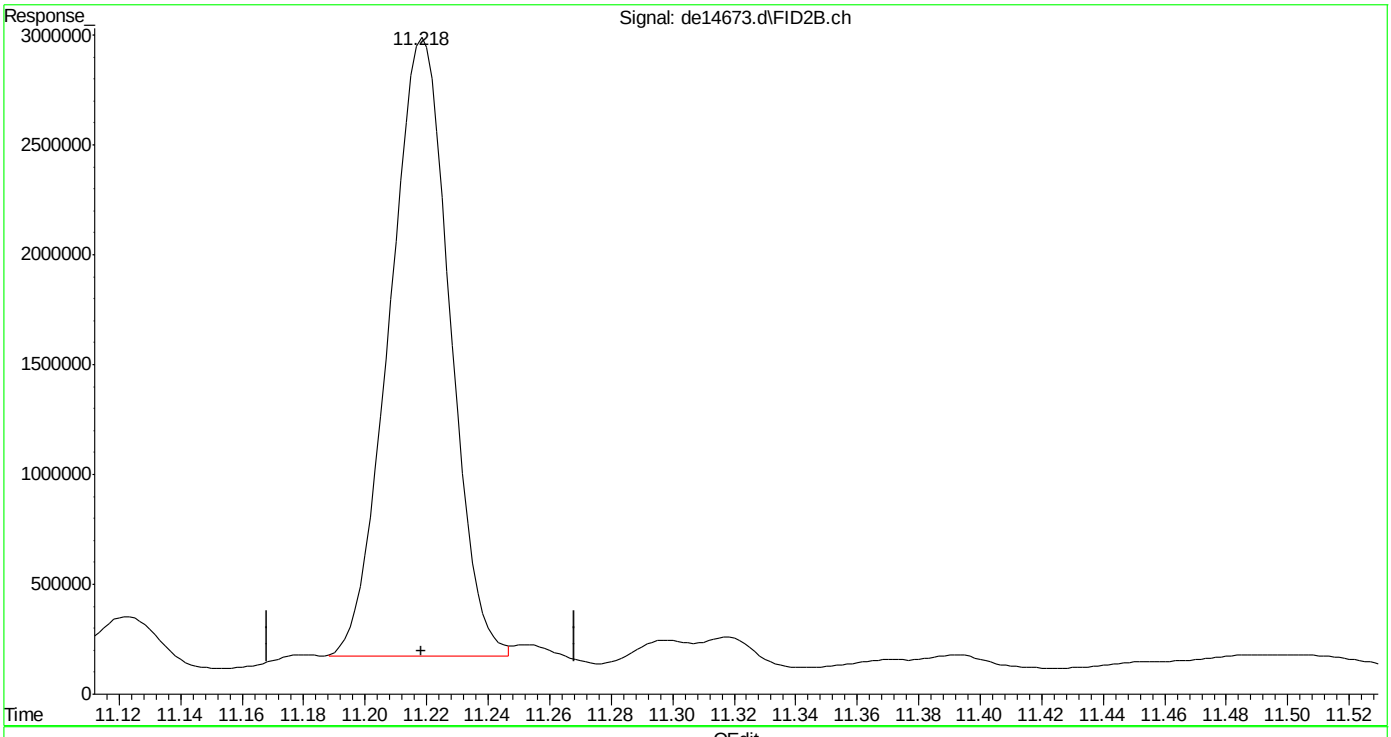
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 23 08:10:31 2016
Quant Method : C:\msdchem\1\METHODS\EPH160622W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 23 08:10:23 2016
Response via : Initial Calibration
Integrator: RTE

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



(35) 1-chlorooctadecane (s)
11.218min 58.767 µg/ml m
response 3828846

(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:12:11 2016

SGS ACCUTEST MC46423

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
07/01/16 09:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:09:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.500	5828697	50.916 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 254.58%#	
6) s 2-bromonaphthalene	7.222	3950039	55.089 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 275.44%#	
11) s o-terphenyl	9.760	6572355	49.675 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 248.37%#	
35) s 1-chlorooctadecane	11.218	3574362	54.861 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 274.30%#	
Target Compounds			
2) naphthalene	5.043	6517712	51.919 µg/ml
3) 2-methylnaphthalene	5.945	6543215	51.871 µg/ml
5) acenaphthylene	7.053	6445720	50.944 µg/ml
7) acenaphthene	7.297	6881265	49.404 µg/ml
8) fluorene	7.938	6513158	50.699 µg/ml
9) phenanthrene	9.115	6508916	52.106 µg/ml
10) anthracene	9.172	6381205	47.966 µg/ml
12) fluoranthene	10.613	6438164	50.195 µg/ml
13) pyrene	10.868	6599236	50.245 µg/ml
14) benzo(a)anthracene	12.430	6273477	51.641 µg/ml
15) chrysene	12.478	6290423	49.279 µg/ml
16) benzo(B)fluoranthene	13.723	6453645	54.509 µg/mlm
17) benzo(k)fluoranthene	13.757	6195764	48.393 µg/mlm
18) benzo(a)pyrene	14.057	6020672	51.040 µg/ml
19) indeno(1,2,3-cd)pyrene	15.197	6155410	52.589 µg/ml
20) dibenzo(ah)anthracene	15.243	5865842	51.769 µg/ml
21) benzo(ghi)perylene	15.420	5888844	51.895 µg/ml
25) h c-9	2.647	4632457	54.948 µg/mlm
26) h c-10	3.800	4674152	55.443 µg/ml
27) naphthalene #2	5.477	4988849	54.876 µg/ml
28) c-12	5.655	4609588	54.677 µg/ml
29) 2-methylnaphthalene #2	6.372	4931873	54.837 µg/ml
30) c-14	7.173	4602794	54.597 µg/ml
31) c-16	8.503	4543842	53.897 µg/ml
32) c-18	9.698	4523578	53.657 µg/ml
33) c-19	10.255	4532580	58.241 µg/ml
34) c-20	10.785	4377418	56.248 µg/ml
36) c-22	11.780	4358479	56.004 µg/ml
37) c-24	12.698	4138588	53.179 µg/ml
38) c-26	13.550	4386274	56.361 µg/ml

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:09:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
39)	c-28	14.343	4193101	53.879	µg/ml
40) h	c-30	15.082	4338502	55.748	µg/ml
41) h	c-36	16.983	3806834	48.916	µg/mlm

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

9.4.9

9

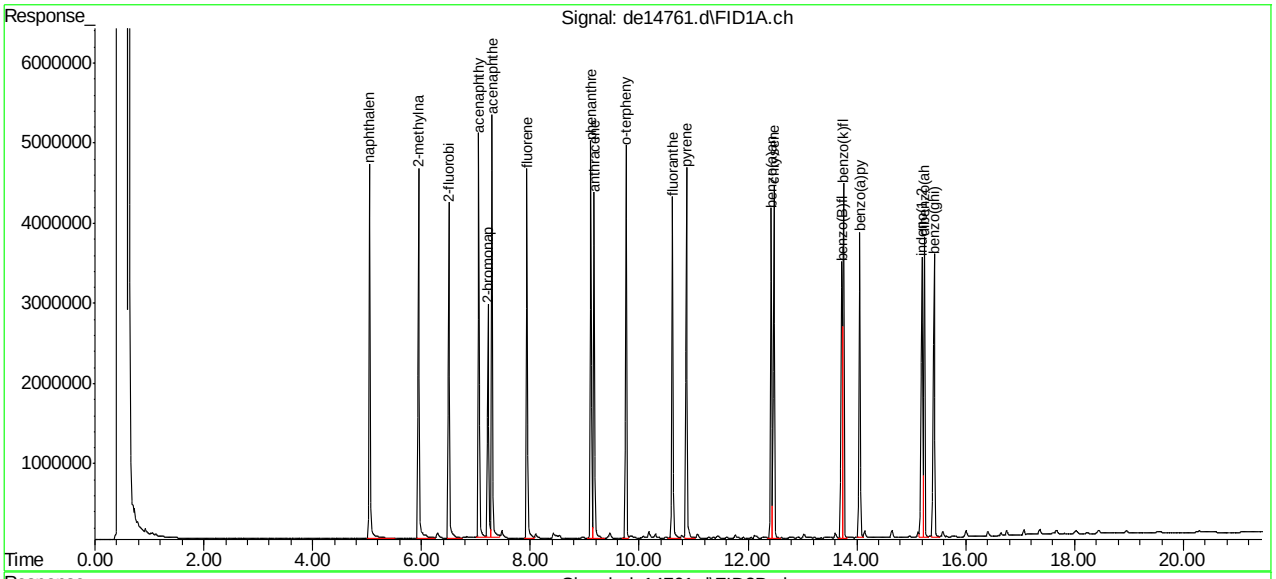
SGS ACCUTEST MC46423

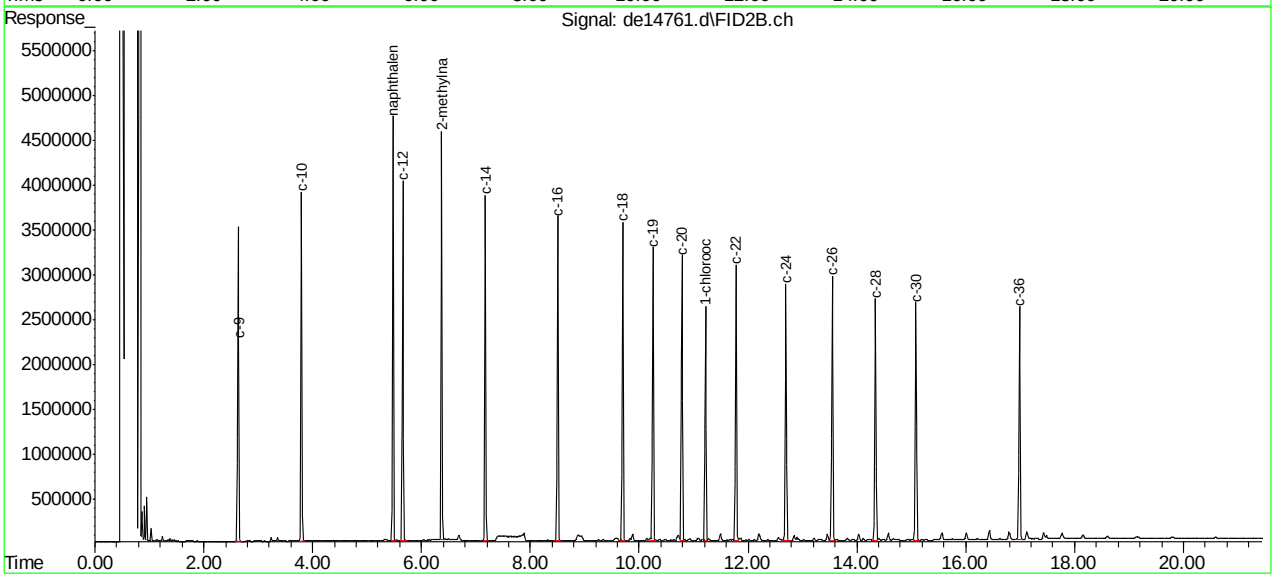
Quantitation Report (QT Reviewed)

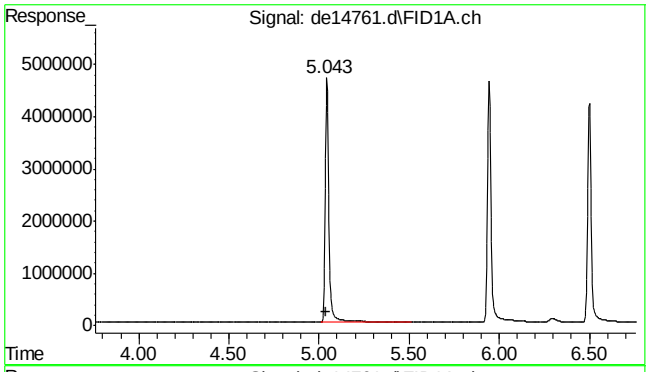
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:09:06 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

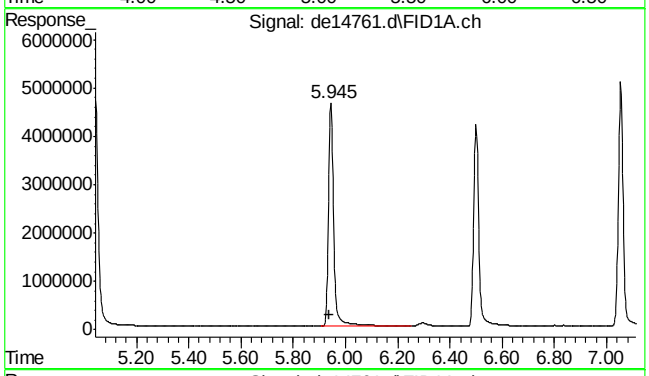






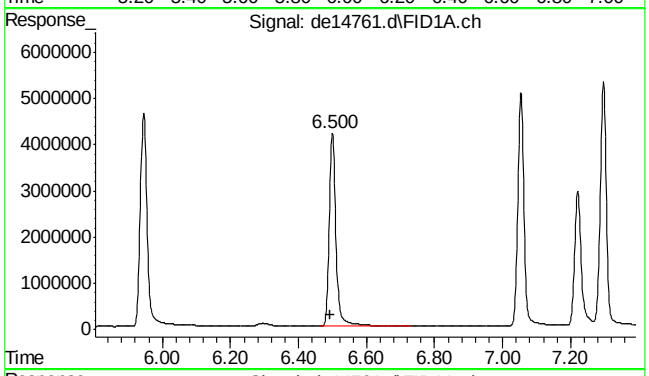
#2 naphthalene

R.T.: 5.043 min
Delta R.T.: 0.005 min
Response: 6517712
Conc: 51.92 µg/ml



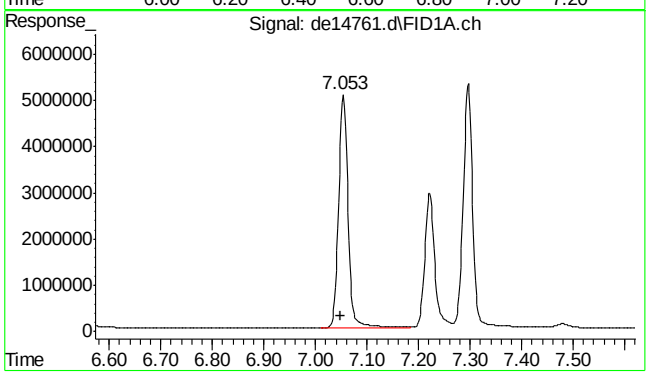
#3 2-methylnaphthalene

R.T.: 5.945 min
Delta R.T.: 0.007 min
Response: 6543215
Conc: 51.87 µg/ml



#4 2-fluorobiphenyl

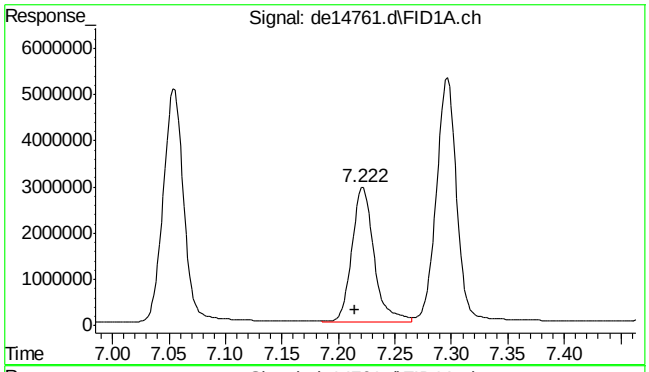
R.T.: 6.500 min
Delta R.T.: 0.007 min
Response: 5828697
Conc: 50.92 µg/ml



#5 acenaphthylene

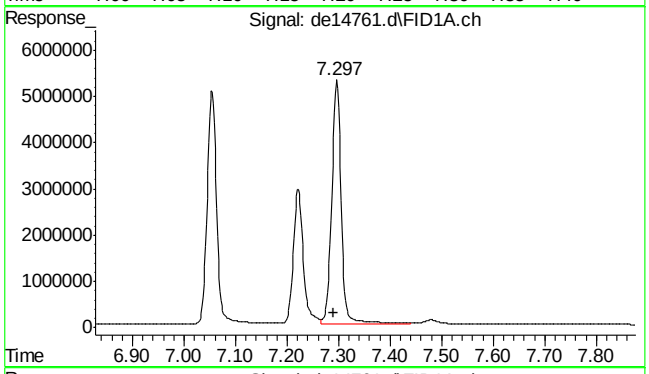
R.T.: 7.053 min
Delta R.T.: 0.005 min
Response: 6445720
Conc: 50.94 µg/ml

SGS ACCUTEST MC46423



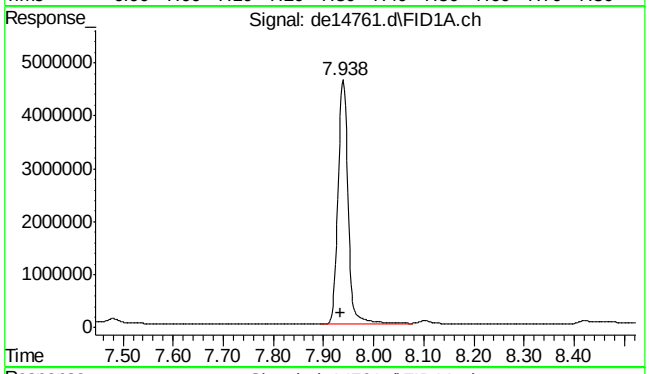
#6 2-bromonaphthalene

R.T.: 7.222 min
Delta R.T.: 0.007 min
Response: 3950039
Conc: 55.09 µg/ml



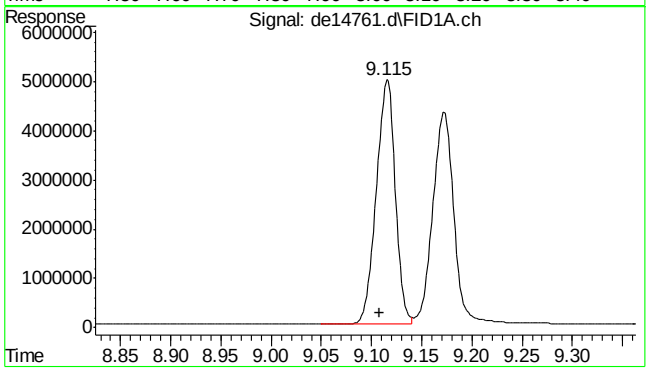
#7 acenaphthene

R.T.: 7.297 min
Delta R.T.: 0.007 min
Response: 6881265
Conc: 49.40 µg/ml



#8 fluorene

R.T.: 7.938 min
Delta R.T.: 0.005 min
Response: 6513158
Conc: 50.70 µg/ml



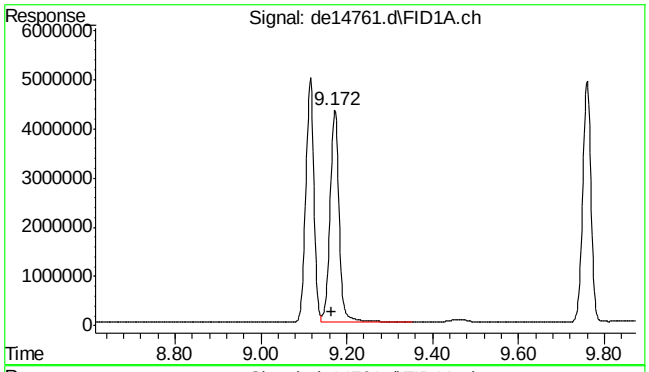
#9 phenanthrene

R.T.: 9.115 min
Delta R.T.: 0.007 min
Response: 6508916
Conc: 52.11 µg/ml

9.4.9

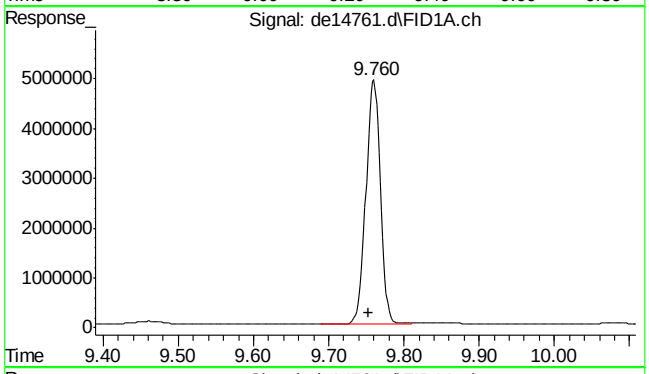
9

SGS ACCUTEST MC46423



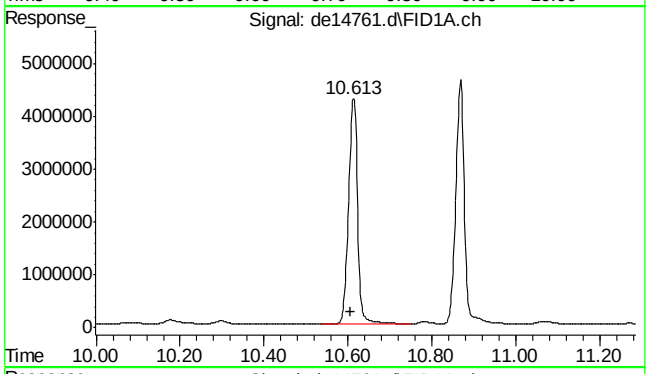
#10 anthracene

R.T.: 9.172 min
Delta R.T.: 0.007 min
Response: 6381205
Conc: 47.97 µg/ml



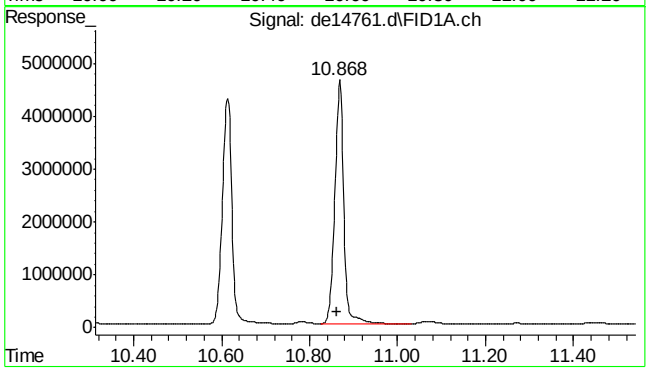
#11 o-terphenyl

R.T.: 9.760 min
Delta R.T.: 0.007 min
Response: 6572355
Conc: 49.67 µg/ml



#12 fluoranthene

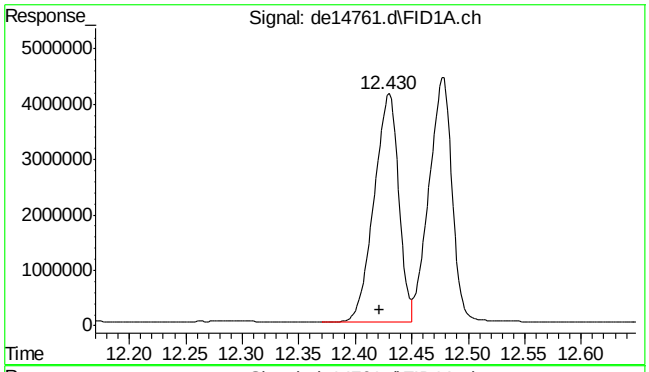
R.T.: 10.613 min
Delta R.T.: 0.007 min
Response: 6438164
Conc: 50.19 µg/ml



#13 pyrene

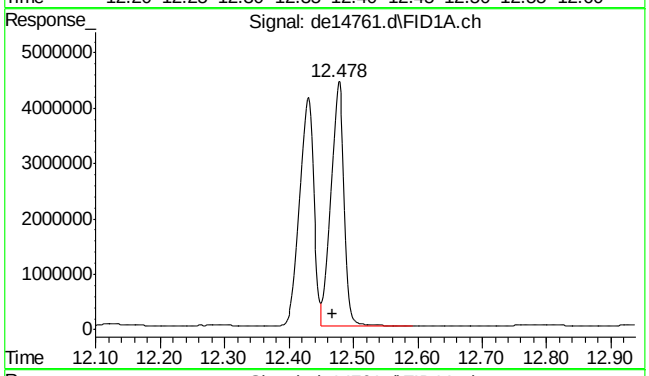
R.T.: 10.868 min
Delta R.T.: 0.007 min
Response: 6599236
Conc: 50.24 µg/ml

SGS ACCUTEST MC46423



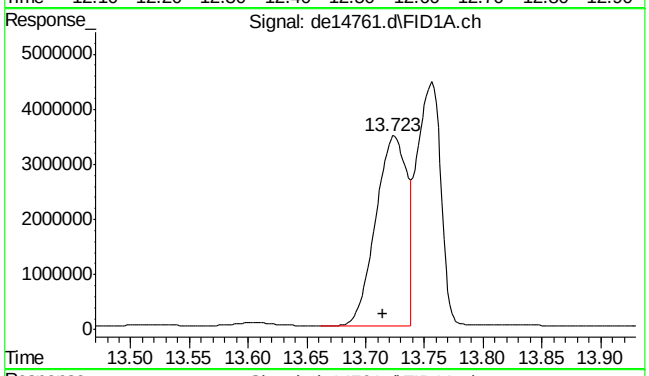
#14 benzo(a)anthracene

R.T.: 12.430 min
Delta R.T.: 0.008 min
Response: 6273477
Conc: 51.64 µg/ml



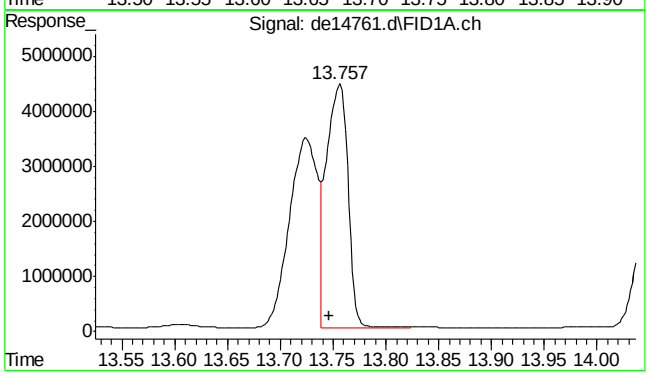
#15 chrysene

R.T.: 12.478 min
Delta R.T.: 0.010 min
Response: 6290423
Conc: 49.28 µg/ml



#16 benzo(B)fluoranthene

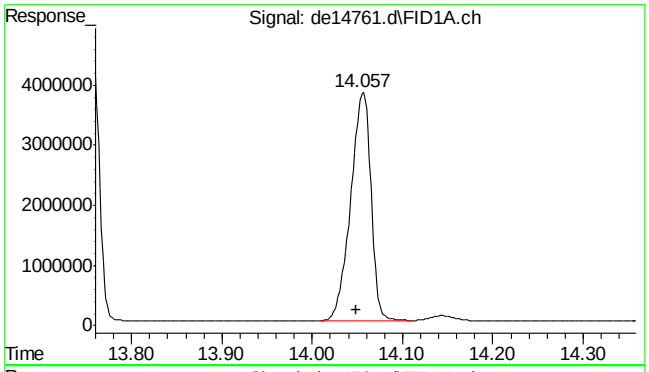
R.T.: 13.723 min
Delta R.T.: 0.008 min
Response: 6453645
Conc: 54.51 µg/ml m



#17 benzo(k)fluoranthene

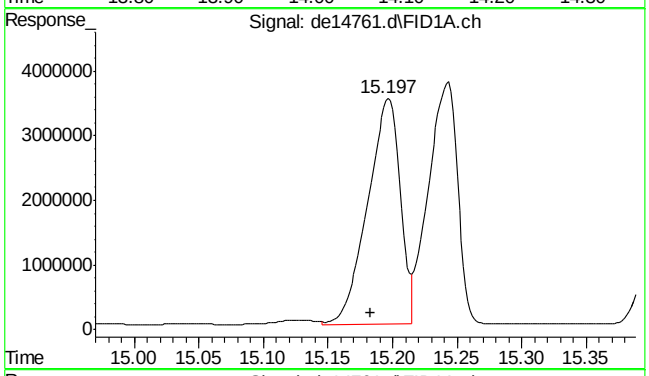
R.T.: 13.757 min
Delta R.T.: 0.010 min
Response: 6195764
Conc: 48.39 µg/ml m

SGS ACCUTEST MC46423



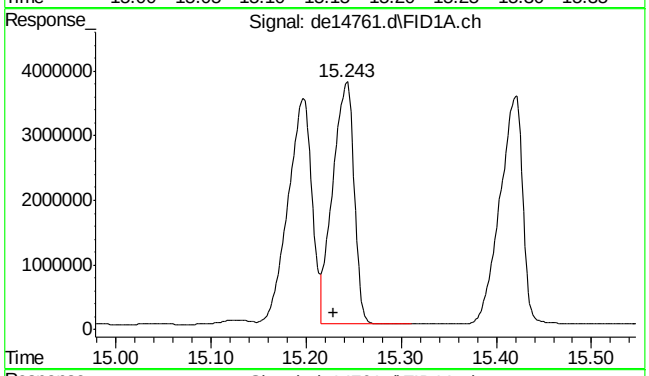
#18 benzo(a)pyrene

R.T.: 14.057 min
Delta R.T.: 0.008 min
Response: 6020672
Conc: 51.04 µg/ml



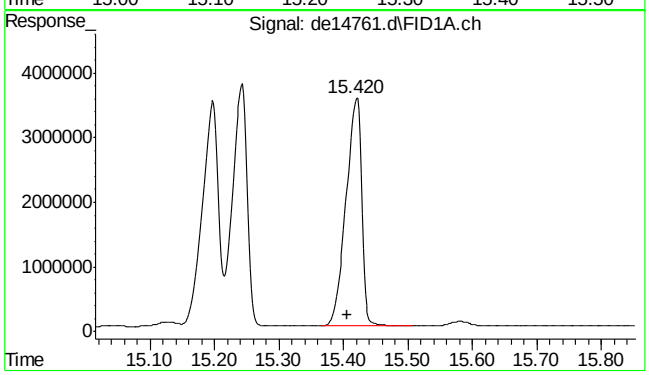
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.197 min
Delta R.T.: 0.013 min
Response: 6155410
Conc: 52.59 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.243 min
Delta R.T.: 0.015 min
Response: 5865842
Conc: 51.77 µg/ml



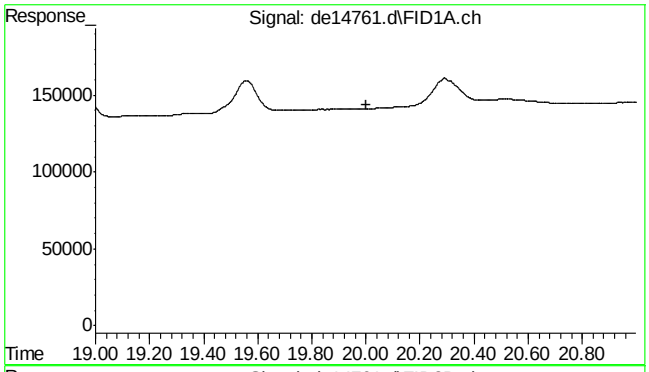
#21 benzo(ghi)perylene

R.T.: 15.420 min
Delta R.T.: 0.015 min
Response: 5888844
Conc: 51.90 µg/ml

9.4.9

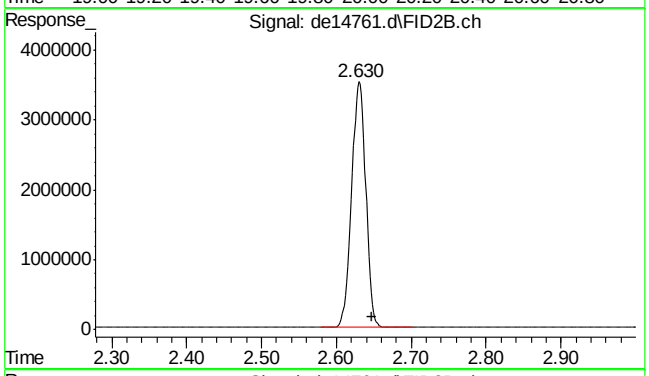
9

SGS ACCUTEST MC46423



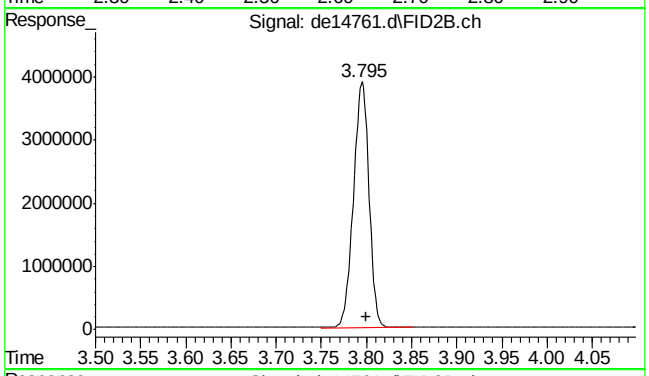
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



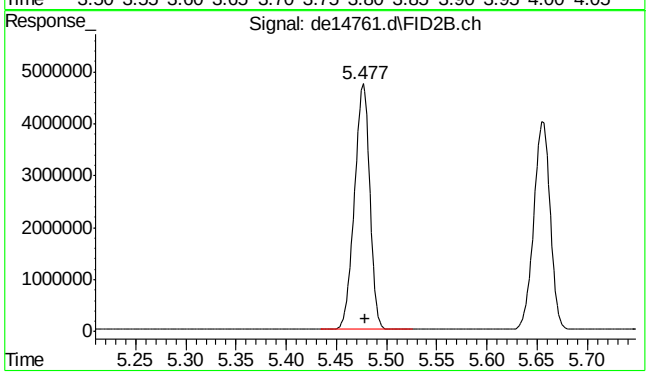
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4632457
Conc: 54.95 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4674152
Conc: 55.44 µg/ml



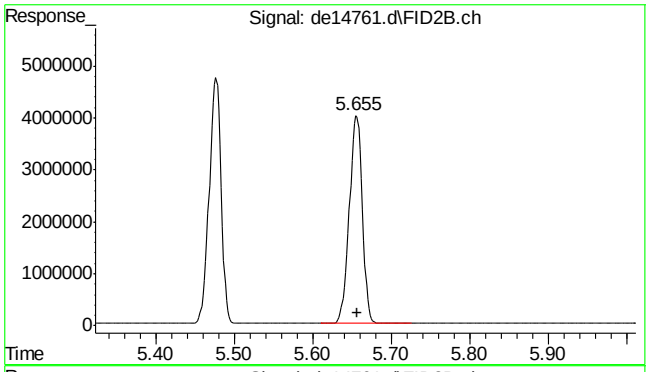
#27 naphthalene #2

R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 4988849
Conc: 54.88 µg/ml

9.4.9

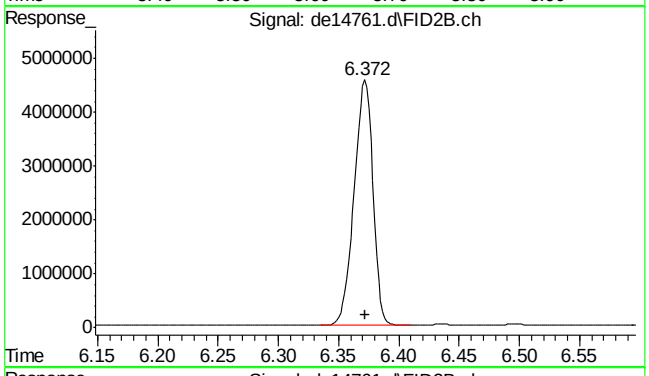
9

SGS ACCUTEST MC46423



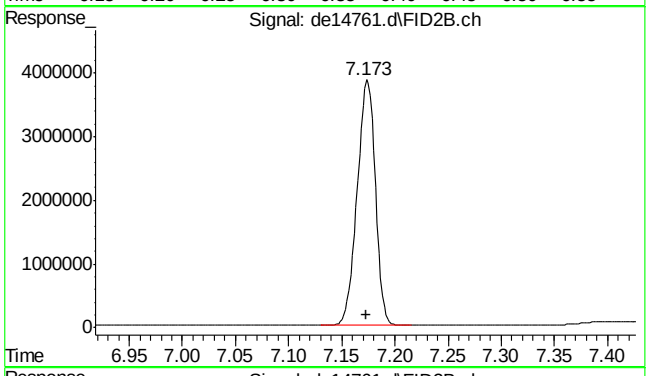
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 4609588
Conc: 54.68 µg/ml



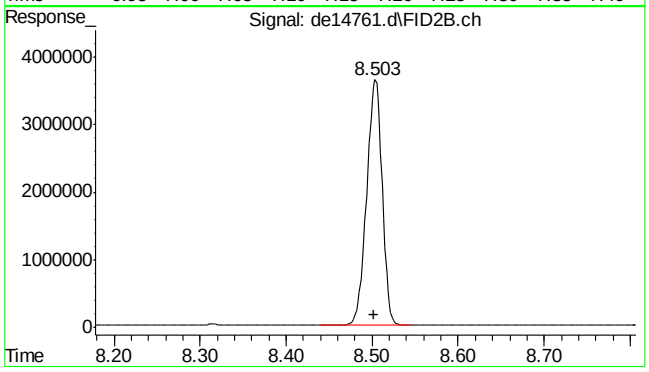
#29 2-methylnaphthalene #2

R.T.: 6.372 min
Delta R.T.: 0.000 min
Response: 4931873
Conc: 54.84 µg/ml



#30 c-14

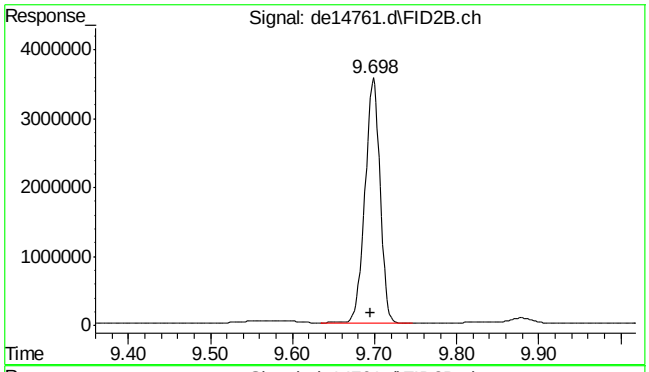
R.T.: 7.173 min
Delta R.T.: 0.000 min
Response: 4602794
Conc: 54.60 µg/ml



#31 c-16

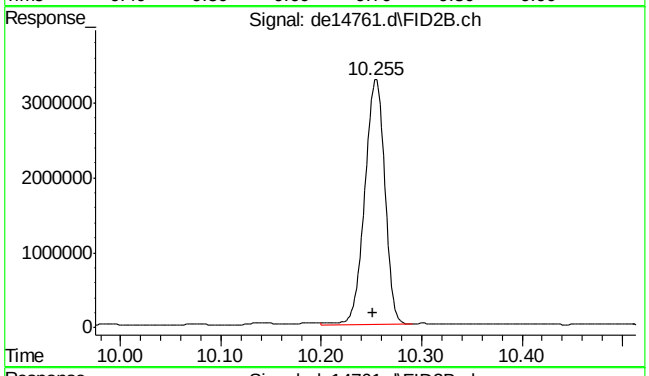
R.T.: 8.503 min
Delta R.T.: 0.002 min
Response: 4543842
Conc: 53.90 µg/ml

SGS ACCUTEST MC46423



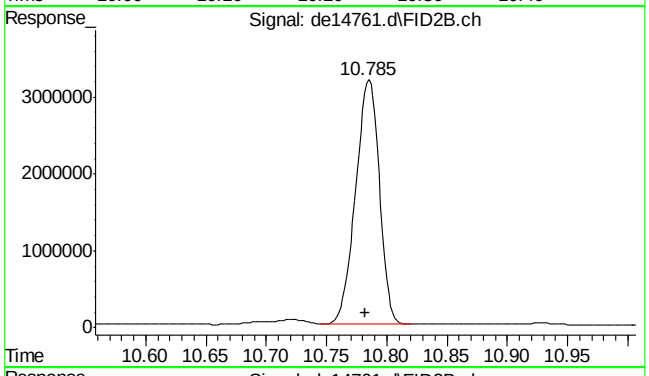
#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.003 min
Response: 4523578
Conc: 53.66 µg/ml



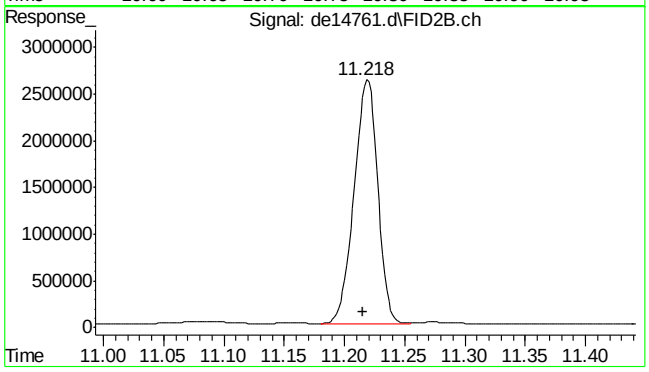
#33 c-19

R.T.: 10.255 min
Delta R.T.: 0.003 min
Response: 4532580
Conc: 58.24 µg/ml



#34 c-20

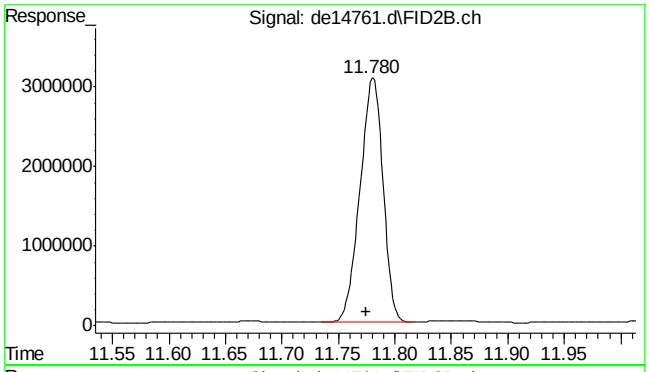
R.T.: 10.785 min
Delta R.T.: 0.003 min
Response: 4377418
Conc: 56.25 µg/ml



#35 1-chlorooctadecane

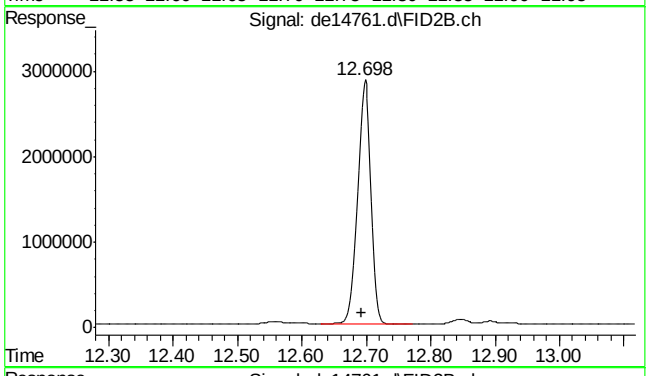
R.T.: 11.218 min
Delta R.T.: 0.003 min
Response: 3574362
Conc: 54.86 µg/ml

SGS ACCUTEST MC46423



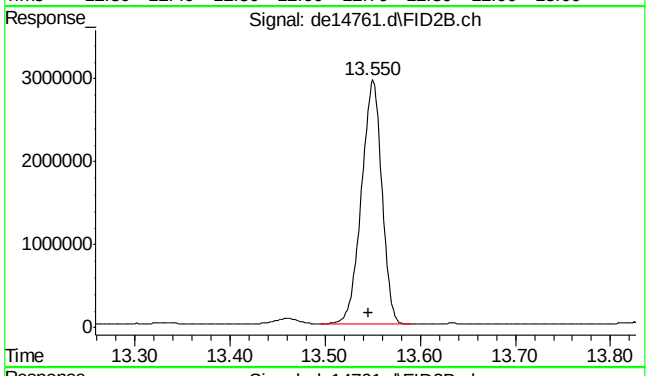
#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.005 min
Response: 4358479
Conc: 56.00 µg/ml



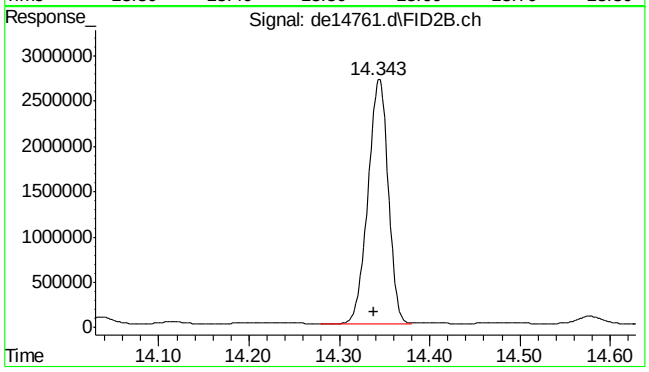
#37 c-24

R.T.: 12.698 min
Delta R.T.: 0.005 min
Response: 4138588
Conc: 53.18 µg/ml



#38 c-26

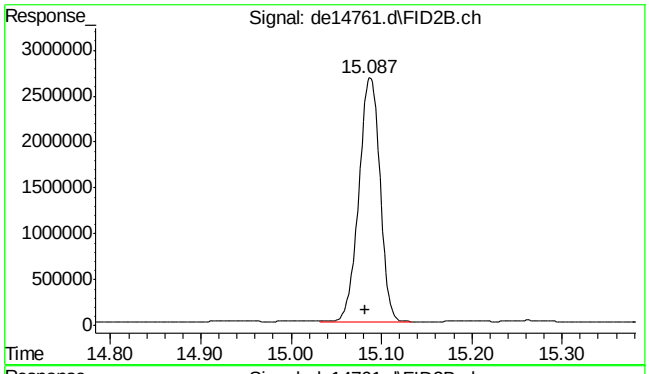
R.T.: 13.550 min
Delta R.T.: 0.005 min
Response: 4386274
Conc: 56.36 µg/ml



#39 c-28

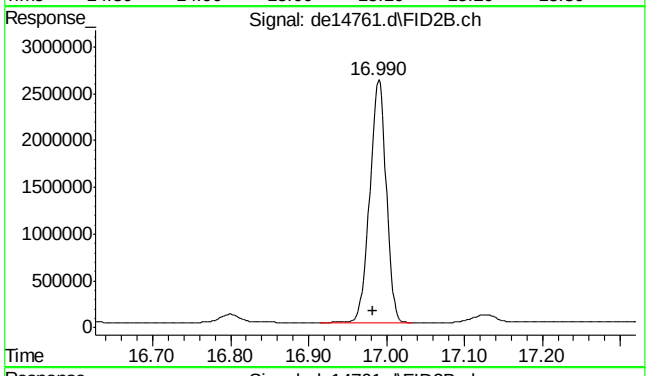
R.T.: 14.343 min
Delta R.T.: 0.005 min
Response: 4193101
Conc: 53.88 µg/ml

SGS ACCUTEST MC46423



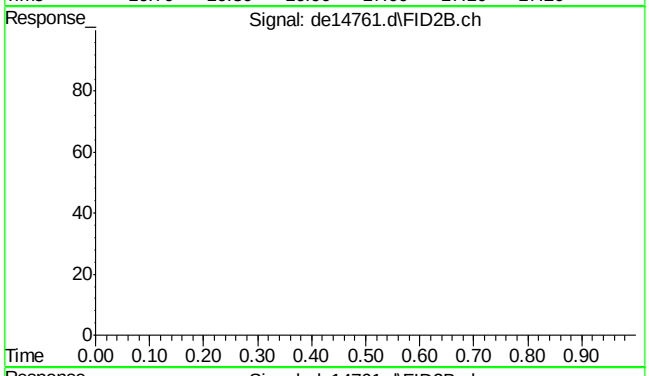
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 4338502
Conc: 55.75 µg/ml



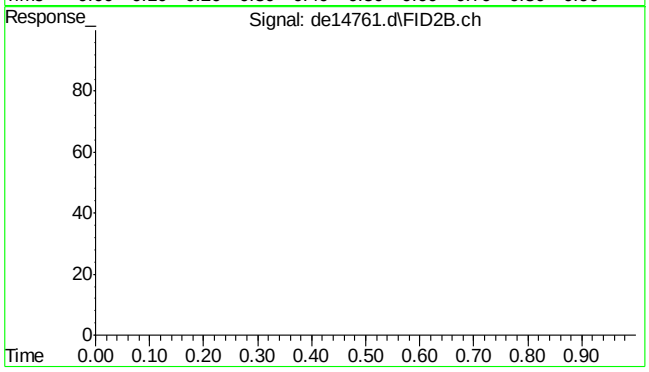
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3806834
Conc: 48.92 µg/ml m



#42 bht

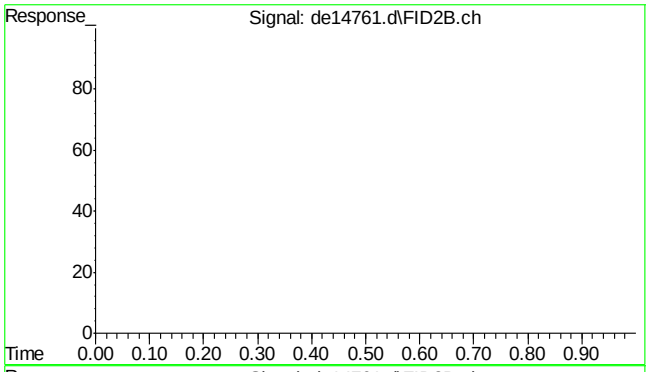
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



#43 bht

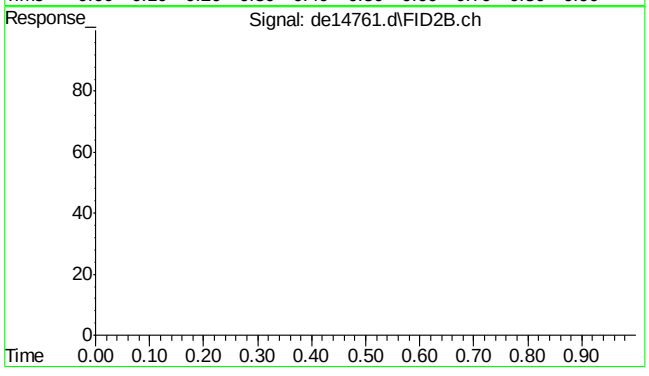
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

SGS ACCUTEST MC46423



#44 bht

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



#45 bht

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

9.4.9

9

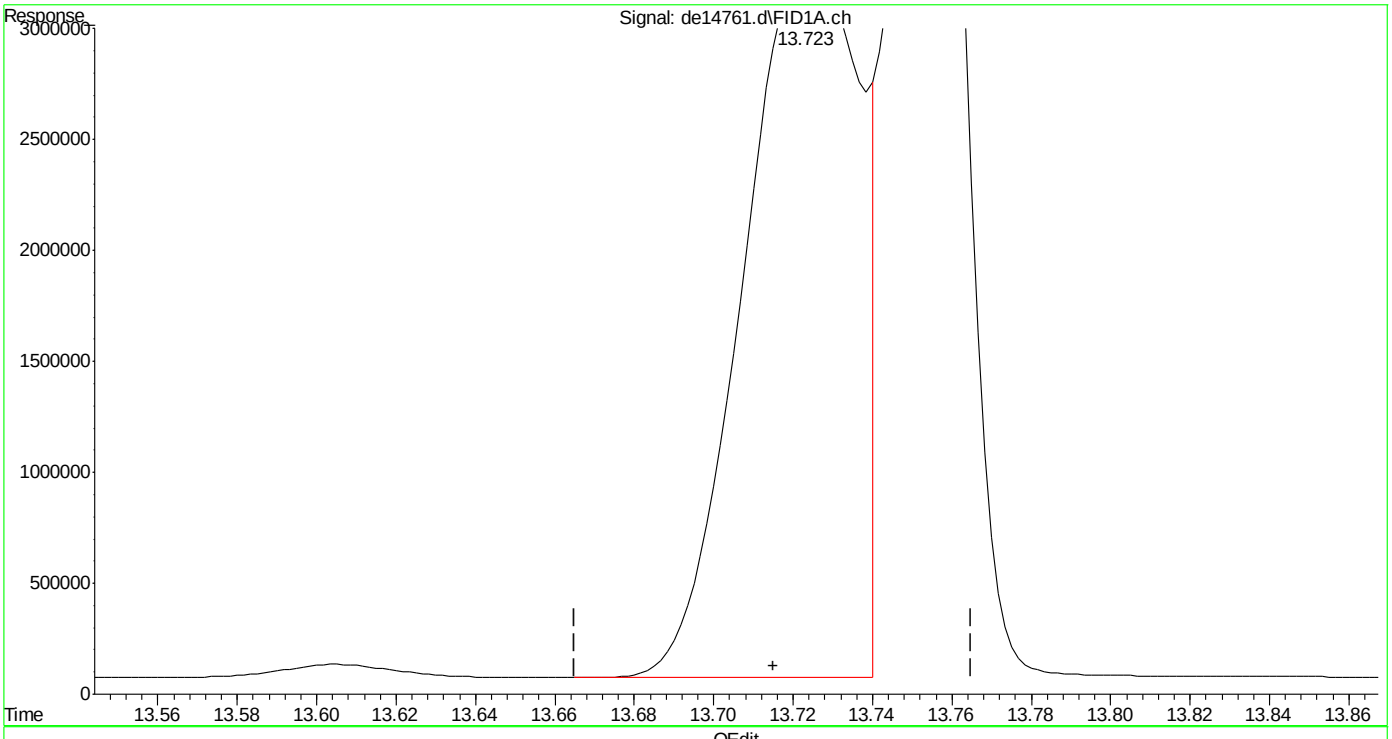
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:07:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
13.723min 56.759 µg/ml
response 6720119

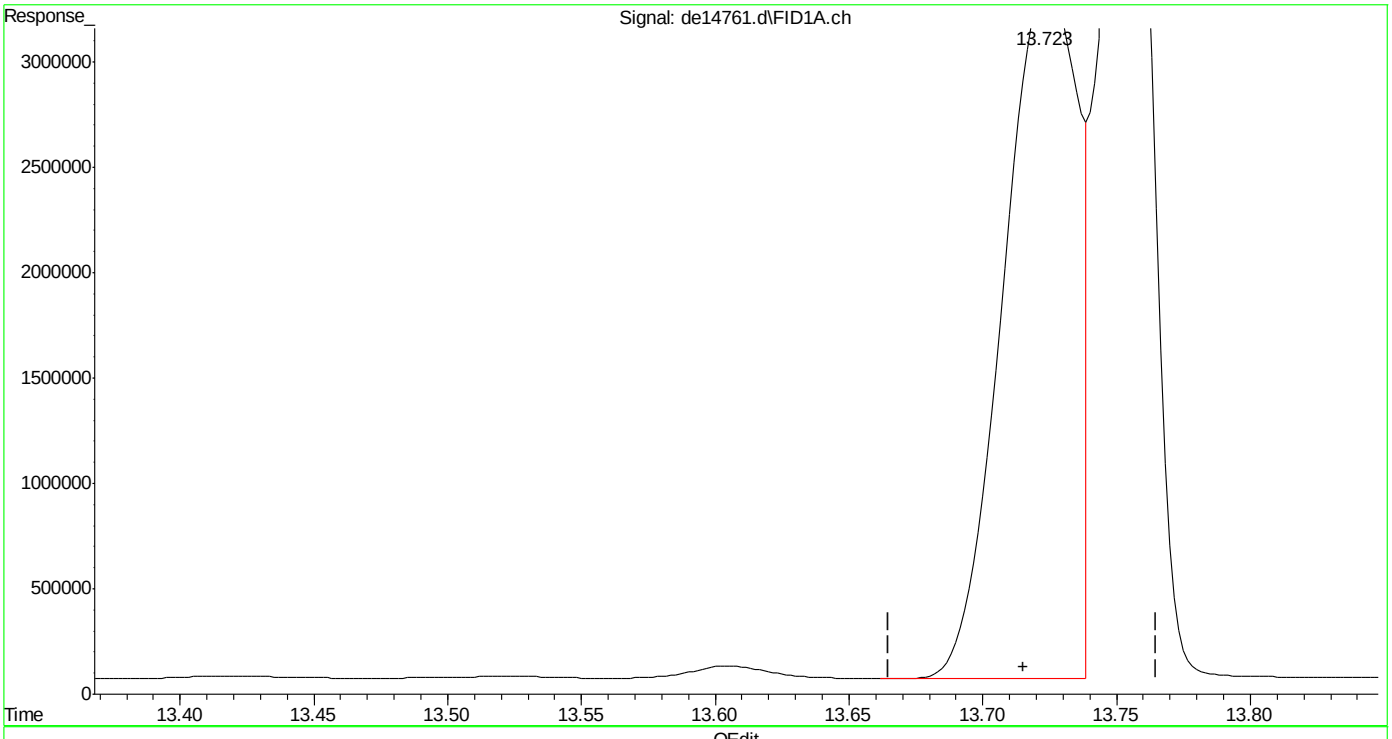
(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:08:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:07:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
13.723min 54.509 µg/ml m
response 6453645

(+) = Expected Retention Time
EPH160630W.M Thu Jun 30 13:08:15 2016

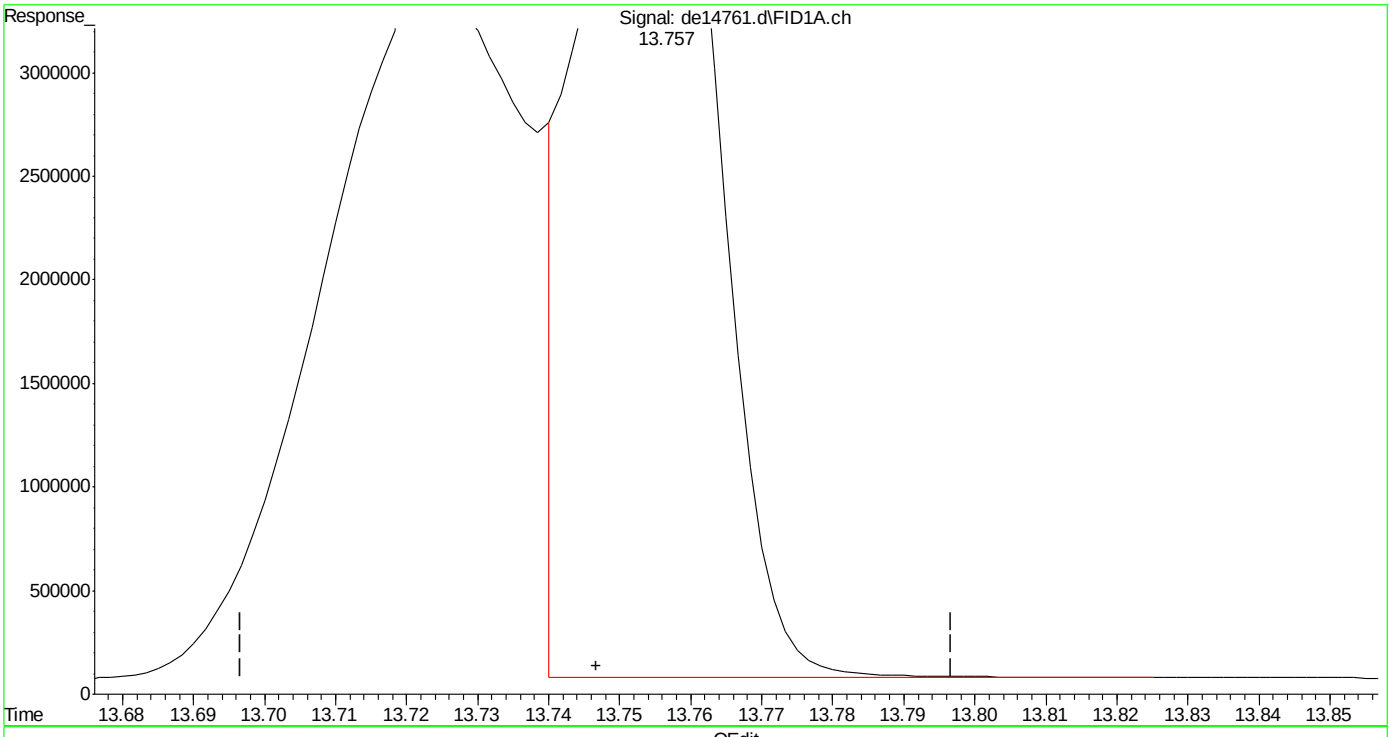
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:07:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
13.757min 46.121 µg/ml
response 5904868

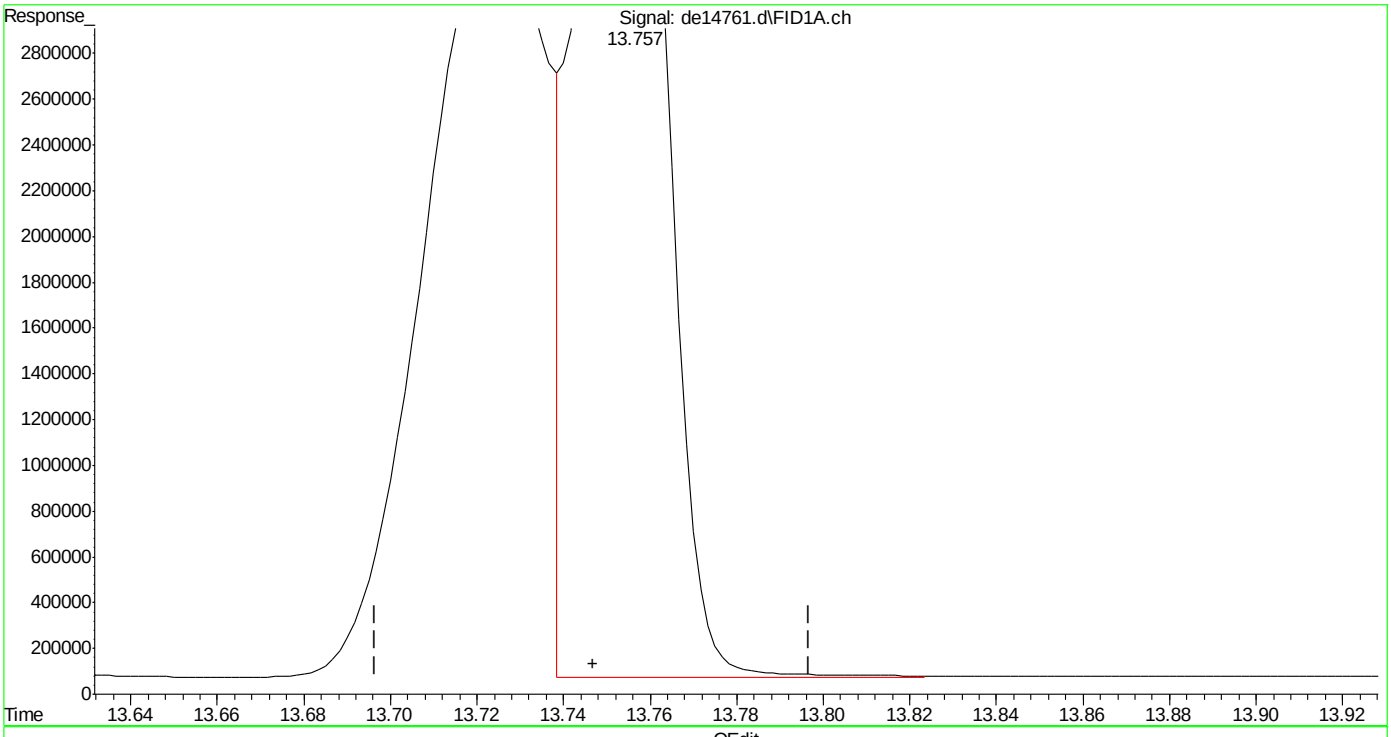
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14761.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 12:05 pm
Operator : thomasa
Sample : cc815-50,gde820
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 30 13:07:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
13.757min 48.393 µg/ml m
response 6195764

(+) = Expected Retention Time

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
07/01/16 09:15

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:02:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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	6.495	4578362	39.994 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 199.97%#	
6) s 2-bromonaphthalene	7.217	3111302	43.391 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 216.96%#	
11) s o-terphenyl	9.753	5330453	40.288 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 201.44%#	
35) s 1-chlorooctadecane	11.215	3375887	51.815 µg/ml
Spiked Amount 20.000 Range 8 - 28		Recovery = 259.07%#	
Target Compounds			
2) naphthalene	5.038	4959558	39.507 µg/ml
3) 2-methylnaphthalene	5.938	5056421	40.084 µg/ml
5) acenaphthylene	7.048	5088468	40.217 µg/ml
7) acenaphthene	7.292	5441760	39.069 µg/ml
8) fluorene	7.933	5270818	41.029 µg/ml
9) phenanthrene	9.108	5260278	42.111 µg/ml
10) anthracene	9.165	5184601	38.971 µg/ml
12) fluoranthene	10.607	5252763	40.953 µg/ml
13) pyrene	10.862	5370204	40.887 µg/ml
14) benzo(a)anthracene	12.422	5015341	41.285 µg/mlm
15) chrysene	12.468	5153593	40.373 µg/mlm
16) benzo(B)fluoranthene	13.717	5382956	45.465 µg/ml
17) benzo(k)fluoranthene	13.745	4936615	38.558 µg/ml
18) benzo(a)pyrene	14.048	4938327	41.865 µg/ml
19) indeno(1,2,3-cd)pyrene	15.187	5196343	44.396 µg/ml
20) dibenzo(ah)anthracene	15.230	4895464	43.205 µg/ml
21) benzo(ghi)perylene	15.408	4996110	44.028 µg/ml
25) h c-9	2.647	4299322	50.997 µg/mlm
26) h c-10	3.800	4342046	51.504 µg/ml
27) naphthalene #2	5.477	4622436	50.846 µg/ml
28) c-12	5.655	4290549	50.893 µg/ml
29) 2-methylnaphthalene #2	6.370	4609464	51.252 µg/ml
30) c-14	7.172	4269653	50.645 µg/ml
31) c-16	8.502	4244232	50.343 µg/ml
32) c-18	9.695	4241335	50.309 µg/ml
33) c-19	10.252	4222338	54.255 µg/ml
34) c-20	10.782	4138765	53.181 µg/ml
36) c-22	11.777	4141798	53.220 µg/ml
37) c-24	12.693	3840681	49.351 µg/ml
38) c-26	13.545	4119738	52.937 µg/ml

SGS ACCUTEST MC46423

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:02:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
39)	c-28	14.338	3969018	51.000	µg/ml
40) h	c-30	15.082	3967672	50.983	µg/ml
41) h	c-36	16.983	3608552	46.368	µg/mlm

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

9.4.10

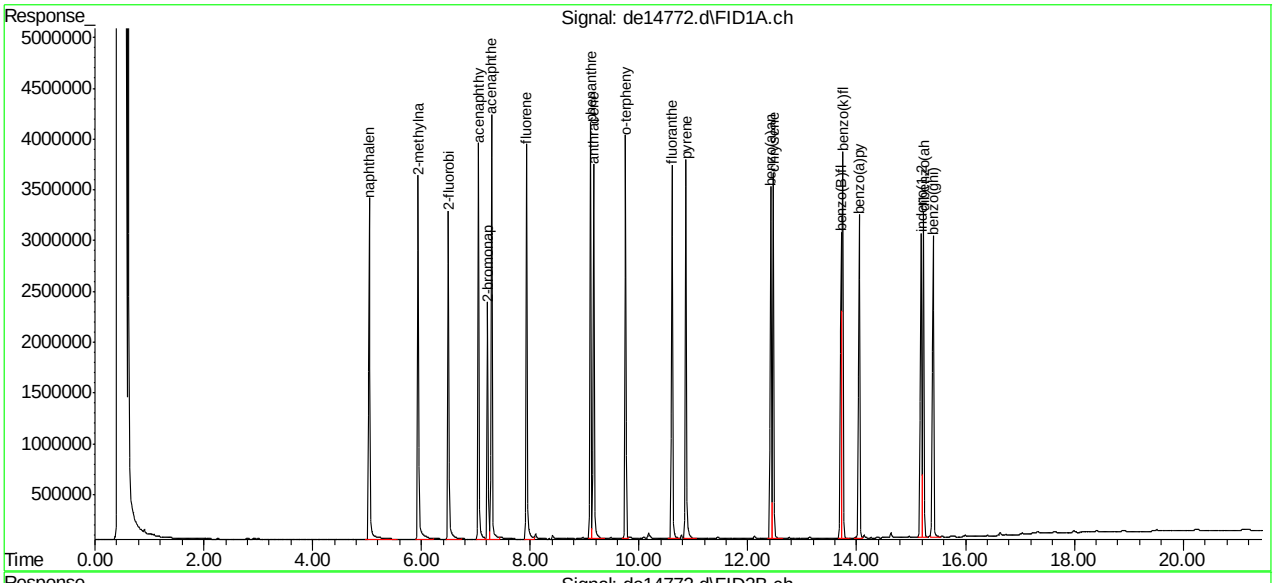
9

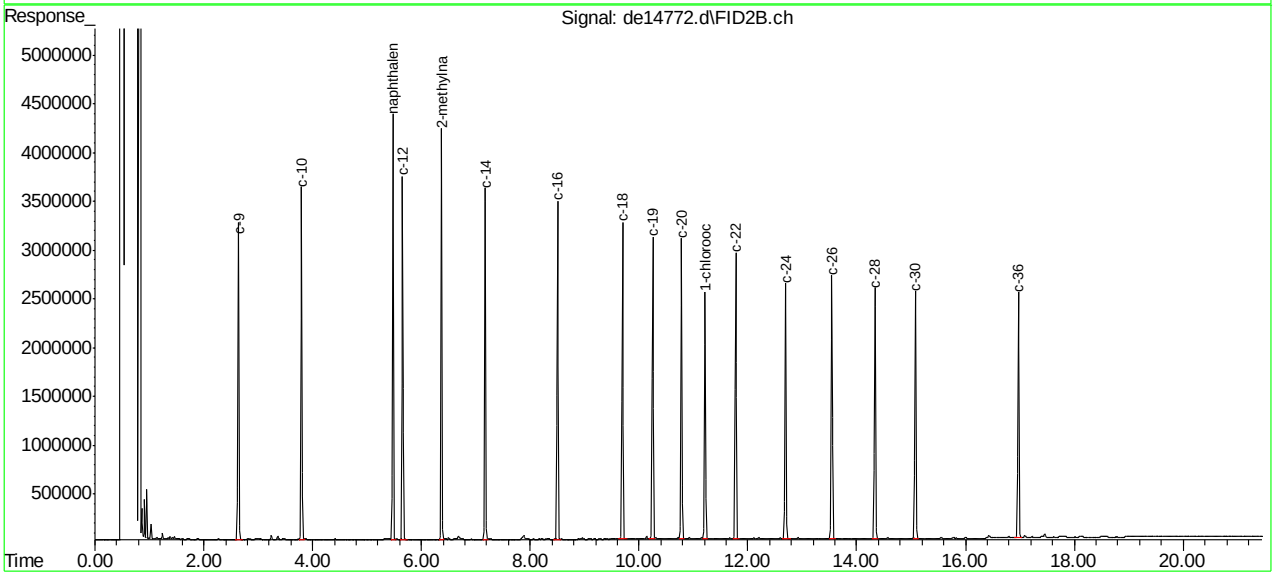
Quantitation Report (QT Reviewed)

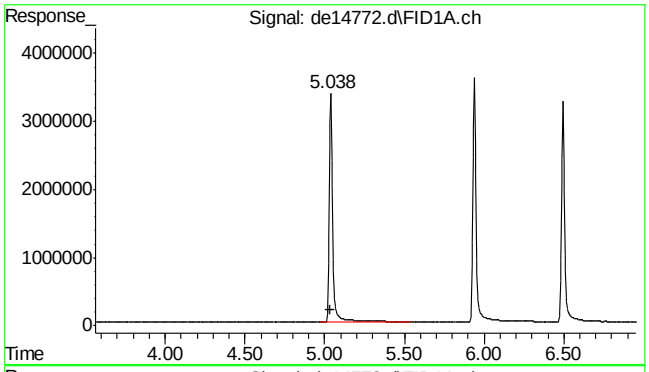
Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:02:02 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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

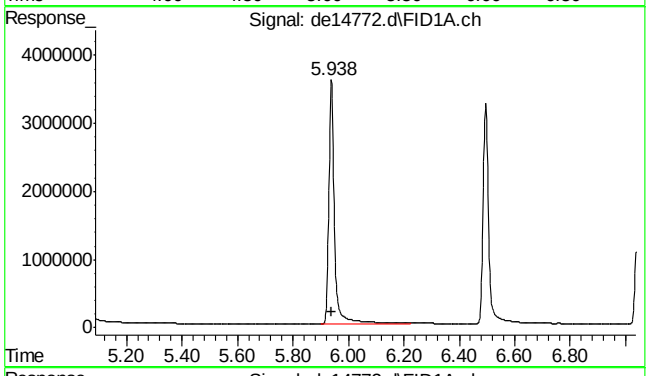






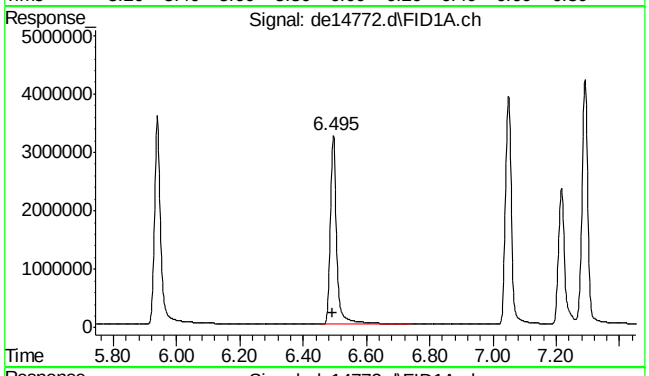
#2 naphthalene

R.T.: 5.038 min
Delta R.T.: 0.000 min
Response: 4959558
Conc: 39.51 µg/ml



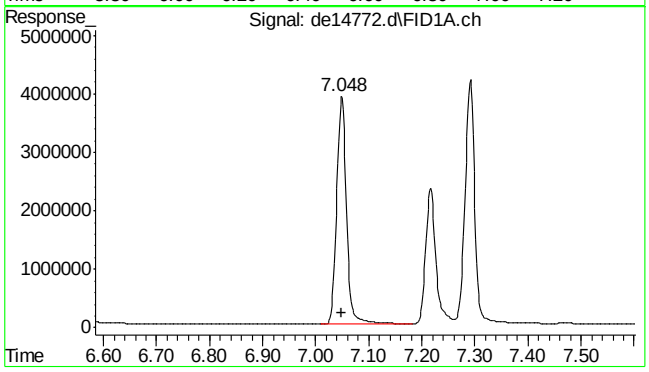
#3 2-methylnaphthalene

R.T.: 5.938 min
Delta R.T.: 0.000 min
Response: 5056421
Conc: 40.08 µg/ml



#4 2-fluorobiphenyl

R.T.: 6.495 min
Delta R.T.: 0.002 min
Response: 4578362
Conc: 39.99 µg/ml



#5 acenaphthylene

R.T.: 7.048 min
Delta R.T.: 0.000 min
Response: 5088468
Conc: 40.22 µg/ml

9.4.10

9

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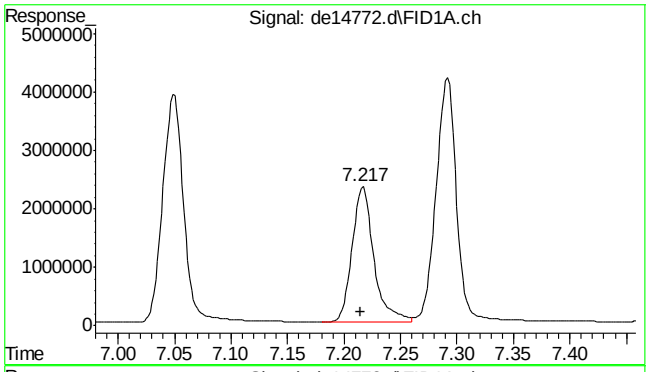
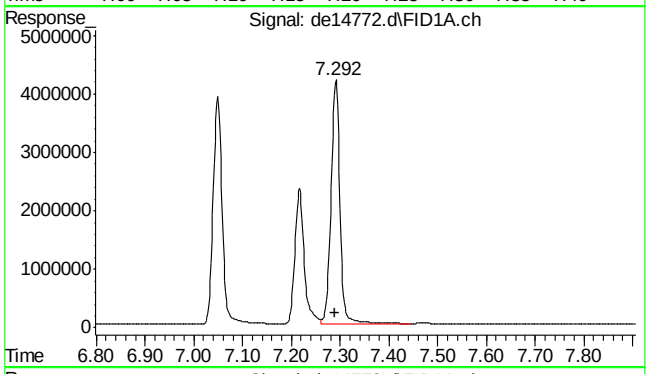


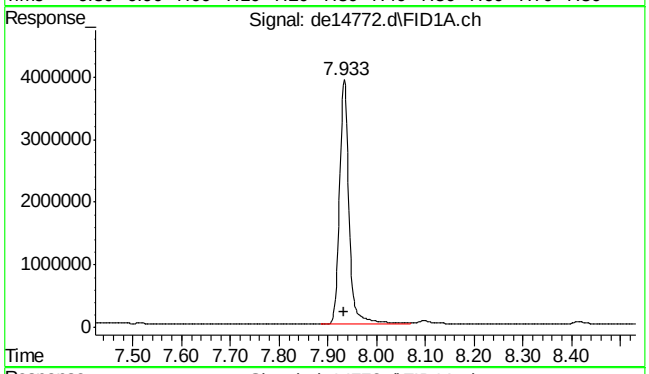
#6 2-bromonaphthalene

R.T.: 7.217 min
Delta R.T.: 0.002 min
Response: 3111302
Conc: 43.39 µg/ml



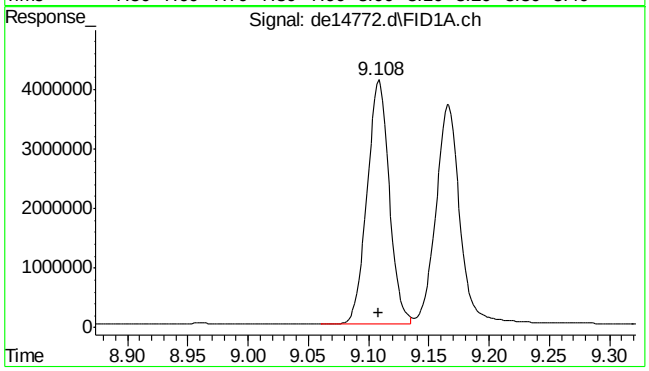
#7 acenaphthene

R.T.: 7.292 min
Delta R.T.: 0.002 min
Response: 5441760
Conc: 39.07 µg/ml



#8 fluorene

R.T.: 7.933 min
Delta R.T.: 0.000 min
Response: 5270818
Conc: 41.03 µg/ml



#9 phenanthrene

R.T.: 9.108 min
Delta R.T.: 0.000 min
Response: 5260278
Conc: 42.11 µg/ml

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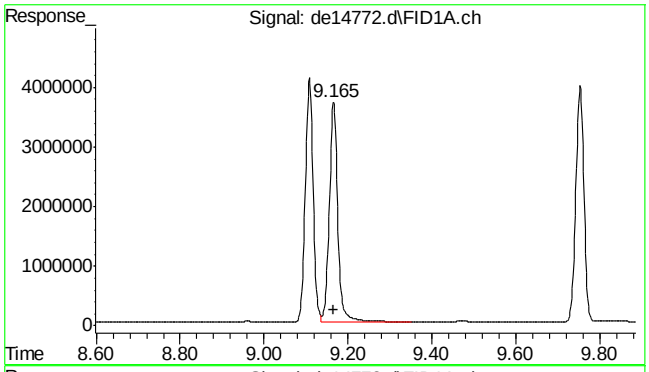
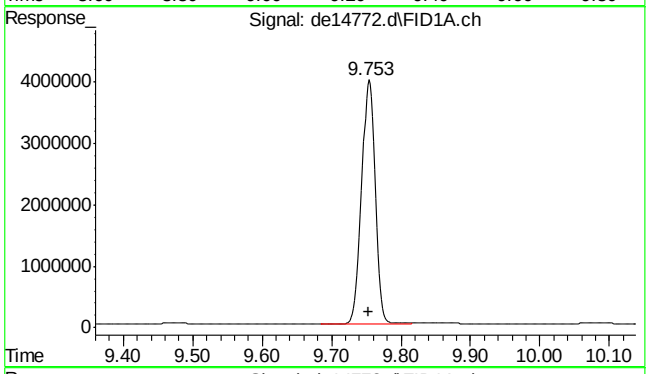


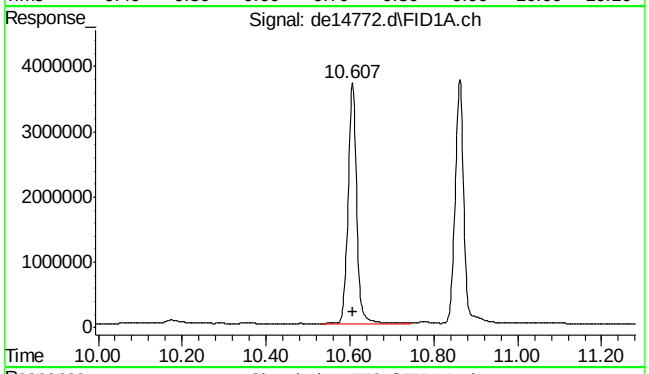
#10 anthracene

R.T.: 9.165 min
Delta R.T.: 0.000 min
Response: 5184601
Conc: 38.97 µg/ml



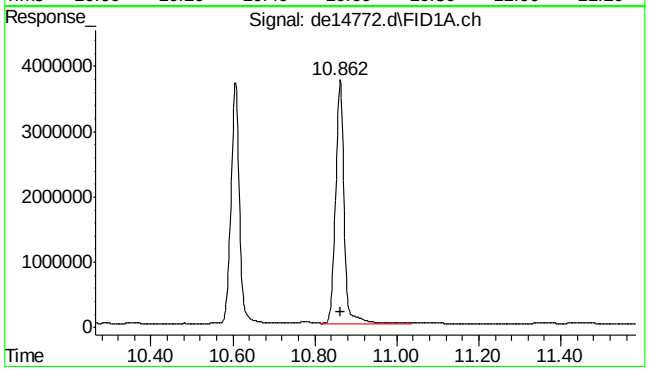
#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: 0.000 min
Response: 5330453
Conc: 40.29 µg/ml



#12 fluoranthene

R.T.: 10.607 min
Delta R.T.: 0.000 min
Response: 5252763
Conc: 40.95 µg/ml



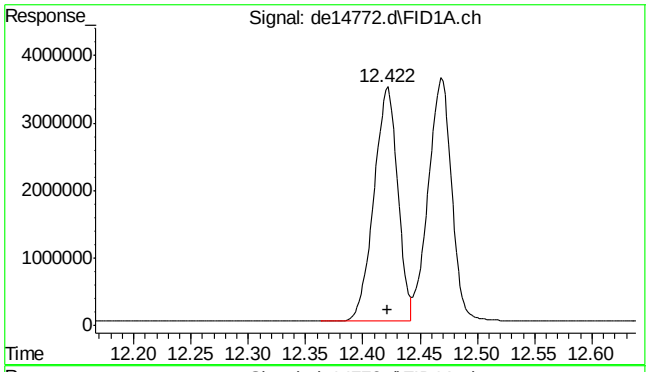
#13 pyrene

R.T.: 10.862 min
Delta R.T.: 0.000 min
Response: 5370204
Conc: 40.89 µg/ml

9.4.10

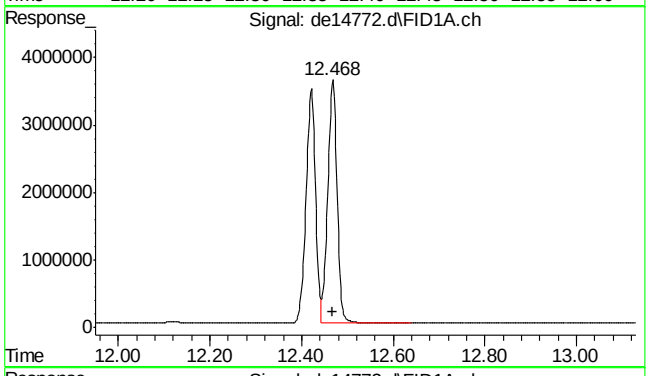
9

SGS ACCUTEST MC46423



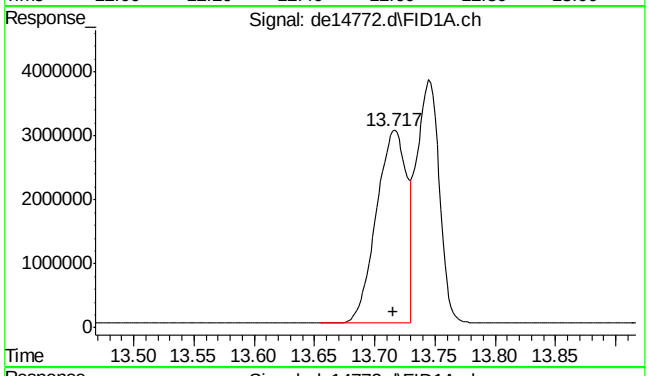
#14 benzo(a)anthracene

R.T.: 12.422 min
Delta R.T.: 0.000 min
Response: 5015341
Conc: 41.28 µg/ml m



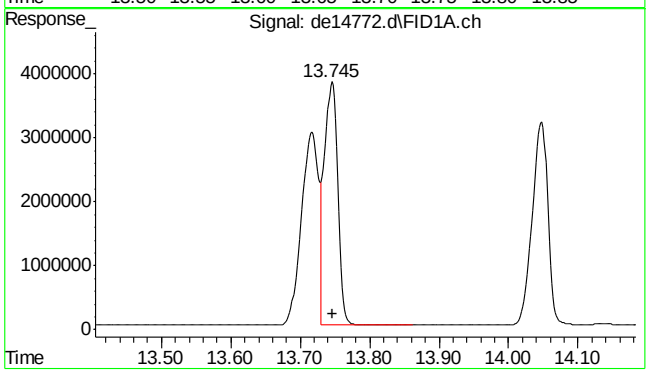
#15 chrysene

R.T.: 12.468 min
Delta R.T.: 0.000 min
Response: 5153593
Conc: 40.37 µg/ml m



#16 benzo(B)fluoranthene

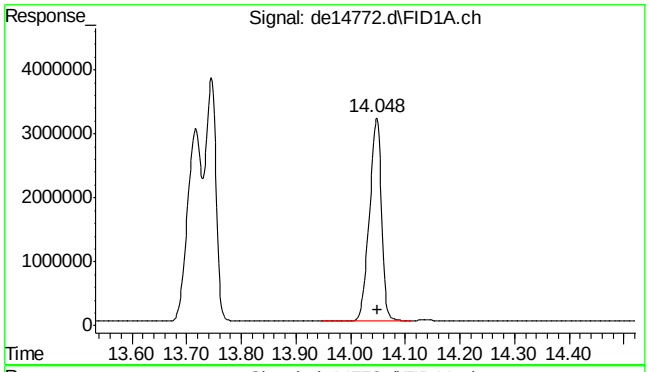
R.T.: 13.717 min
Delta R.T.: 0.002 min
Response: 5382956
Conc: 45.47 µg/ml



#17 benzo(k)fluoranthene

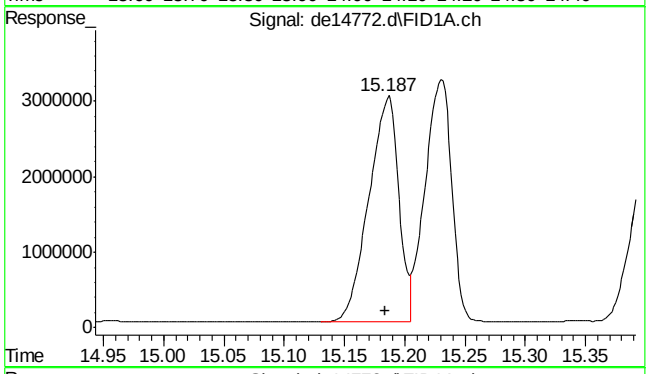
R.T.: 13.745 min
Delta R.T.: -0.002 min
Response: 4936615
Conc: 38.56 µg/ml

SGS ACCUTEST MC46423



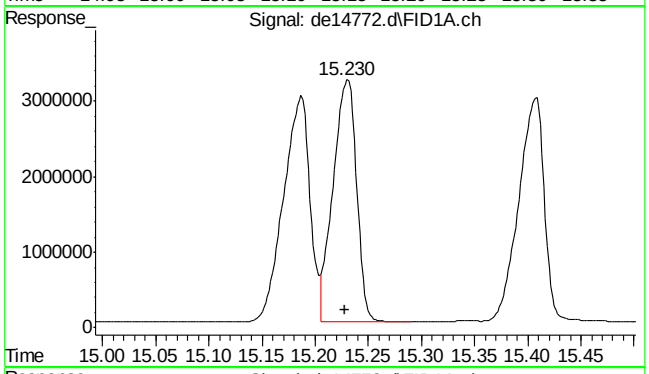
#18 benzo(a)pyrene

R.T.: 14.048 min
Delta R.T.: 0.000 min
Response: 4938327
Conc: 41.86 µg/ml



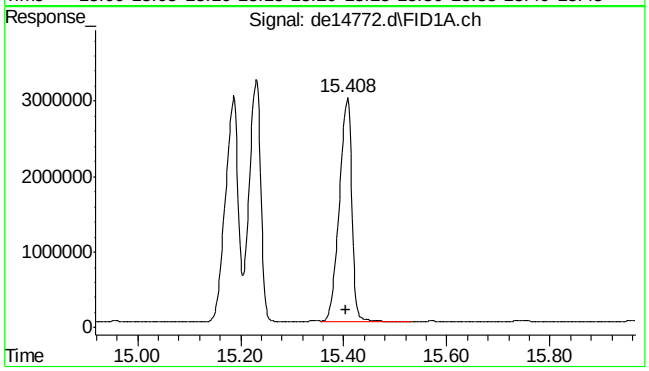
#19 indeno(1,2,3-cd)pyrene

R.T.: 15.187 min
Delta R.T.: 0.003 min
Response: 5196343
Conc: 44.40 µg/ml



#20 dibenzo(ah)anthracene

R.T.: 15.230 min
Delta R.T.: 0.002 min
Response: 4895464
Conc: 43.21 µg/ml



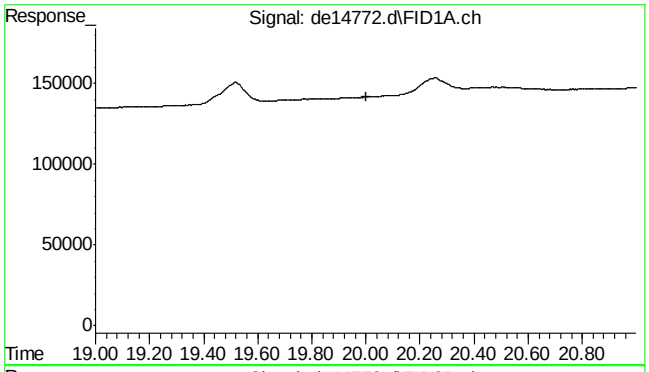
#21 benzo(ghi)perylene

R.T.: 15.408 min
Delta R.T.: 0.003 min
Response: 4996110
Conc: 44.03 µg/ml

9.4.10

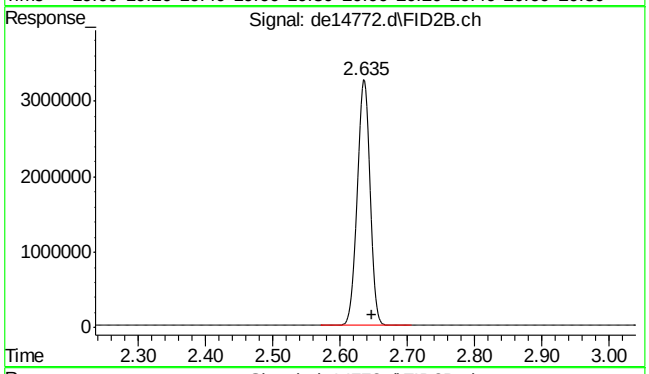
9

SGS ACCUTEST MC46423



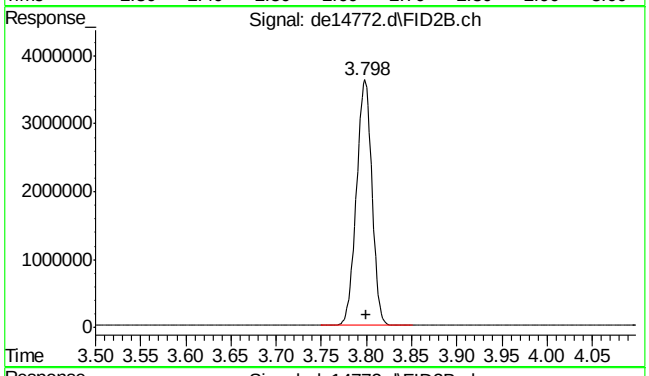
#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



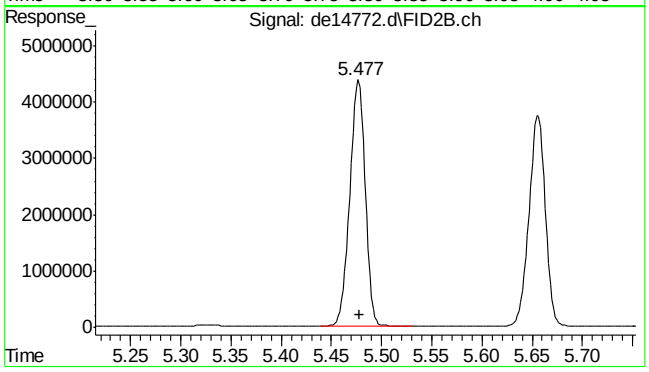
#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4299322
Conc: 51.00 µg/ml m



#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4342046
Conc: 51.50 µg/ml



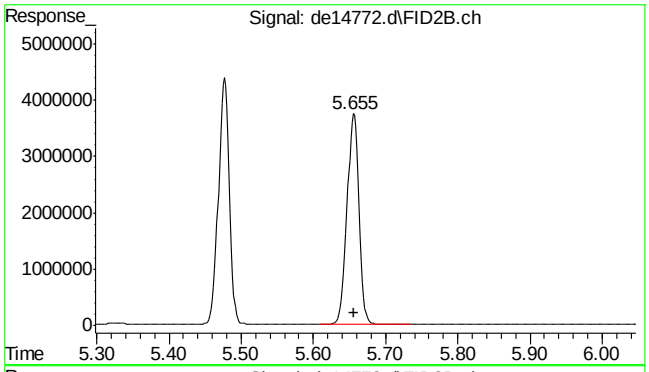
#27 naphthalene #2

R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 4622436
Conc: 50.85 µg/ml

9.4.10

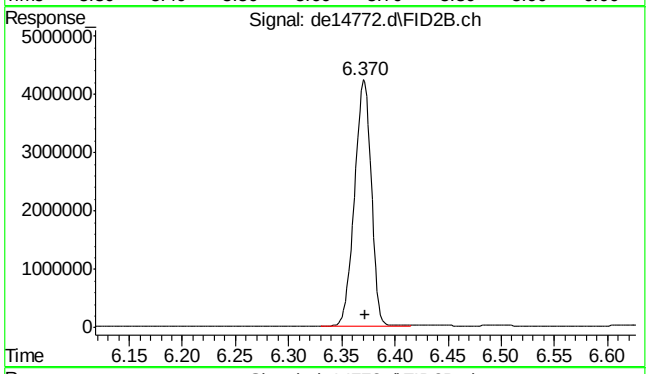
9

SGS ACCUTEST MC46423



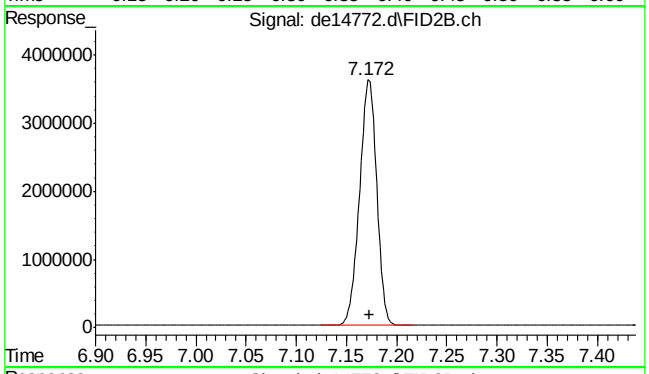
#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 4290549
Conc: 50.89 µg/ml



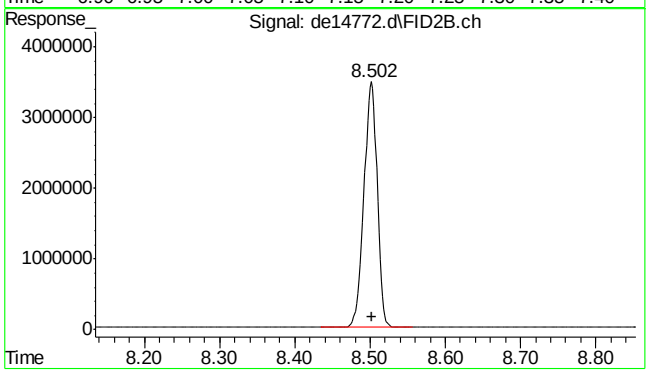
#29 2-methylnaphthalene #2

R.T.: 6.370 min
Delta R.T.: -0.002 min
Response: 4609464
Conc: 51.25 µg/ml



#30 c-14

R.T.: 7.172 min
Delta R.T.: -0.002 min
Response: 4269653
Conc: 50.64 µg/ml



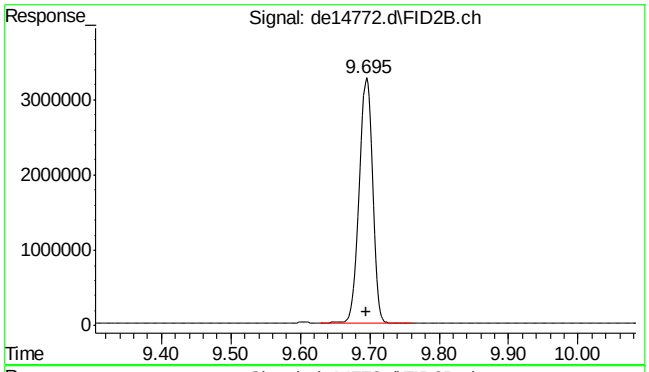
#31 c-16

R.T.: 8.502 min
Delta R.T.: 0.000 min
Response: 4244232
Conc: 50.34 µg/ml

9.4.10

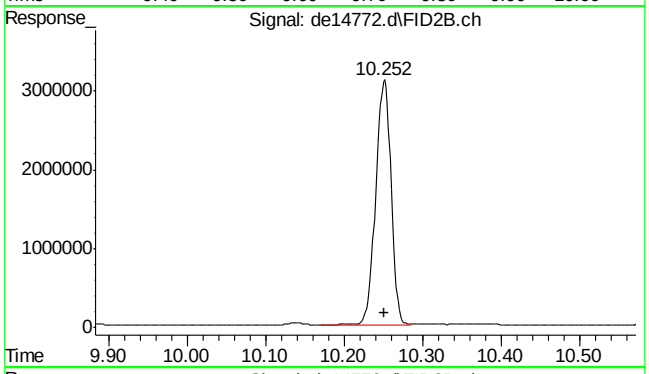
9

SGS ACCUTEST MC46423



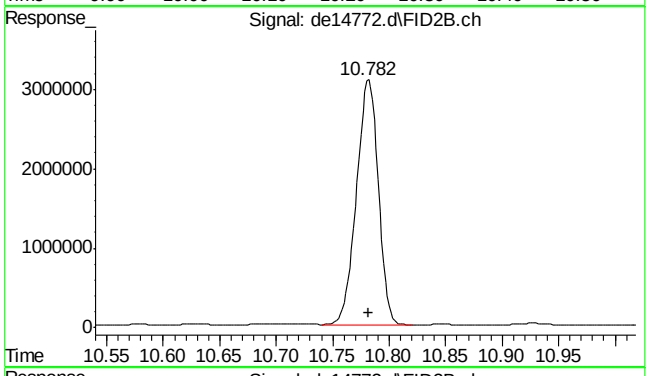
#32 c-18

R.T.: 9.695 min
Delta R.T.: 0.000 min
Response: 4241335
Conc: 50.31 µg/ml



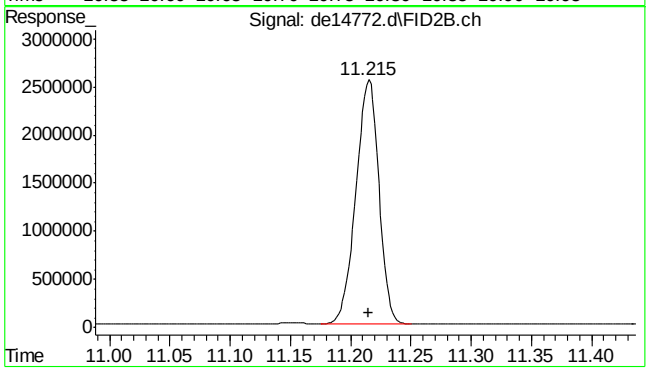
#33 c-19

R.T.: 10.252 min
Delta R.T.: 0.000 min
Response: 4222338
Conc: 54.25 µg/ml



#34 c-20

R.T.: 10.782 min
Delta R.T.: 0.000 min
Response: 4138765
Conc: 53.18 µg/ml



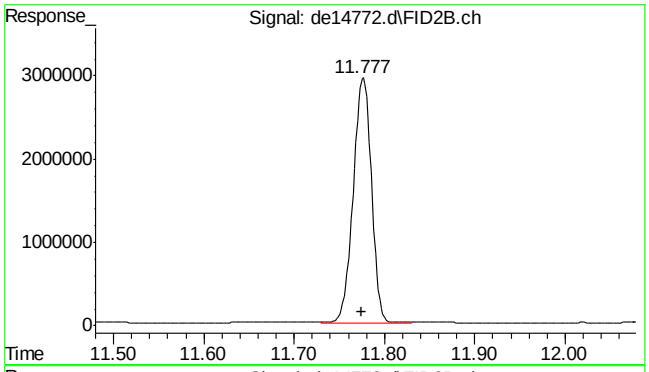
#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: 0.000 min
Response: 3375887
Conc: 51.81 µg/ml

9.4.10

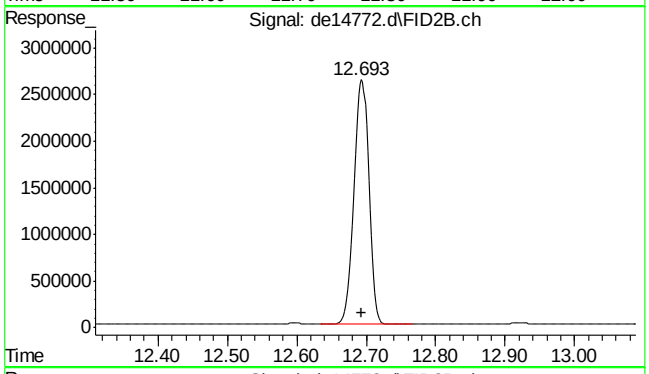
9

SGS ACCUTEST MC46423



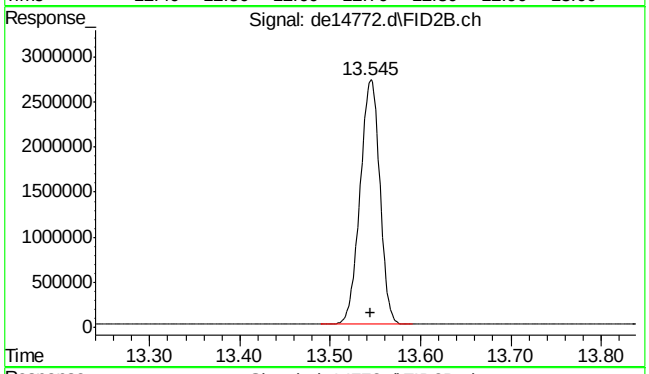
#36 c-22

R.T.: 11.777 min
Delta R.T.: 0.002 min
Response: 4141798
Conc: 53.22 µg/ml



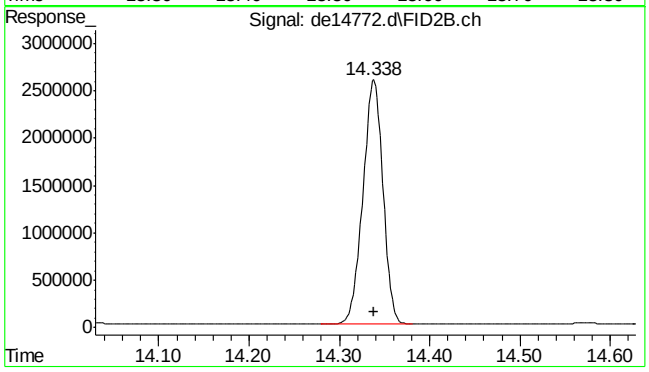
#37 c-24

R.T.: 12.693 min
Delta R.T.: 0.000 min
Response: 3840681
Conc: 49.35 µg/ml



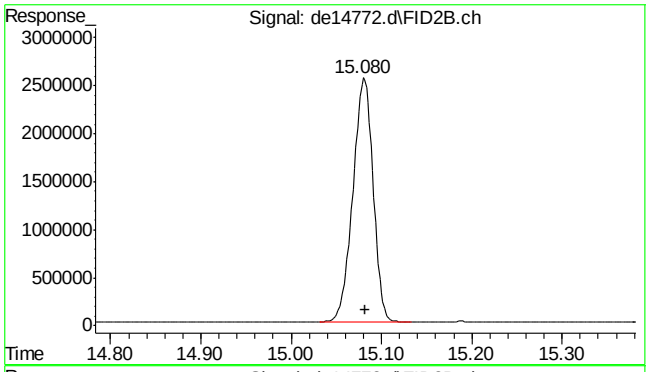
#38 c-26

R.T.: 13.545 min
Delta R.T.: 0.000 min
Response: 4119738
Conc: 52.94 µg/ml



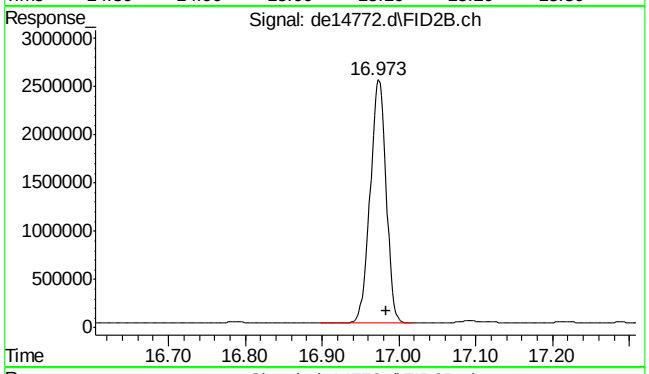
#39 c-28

R.T.: 14.338 min
Delta R.T.: 0.000 min
Response: 3969018
Conc: 51.00 µg/ml



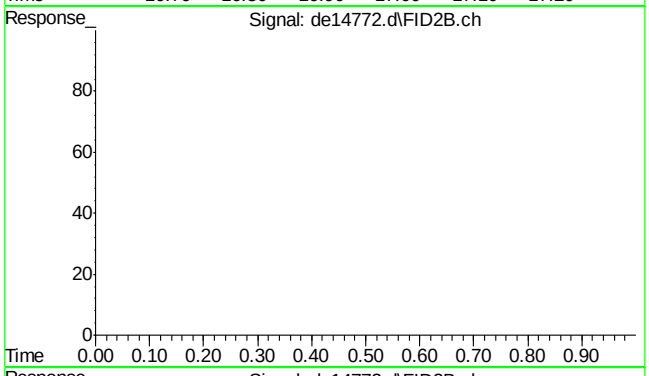
#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3967672
Conc: 50.98 µg/ml



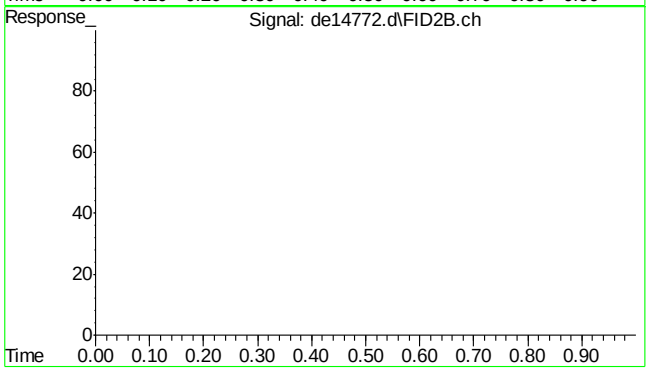
#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3608552
Conc: 46.37 µg/ml m



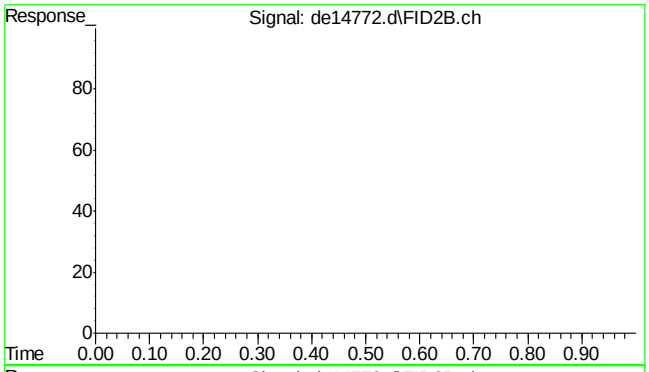
#42 bht

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



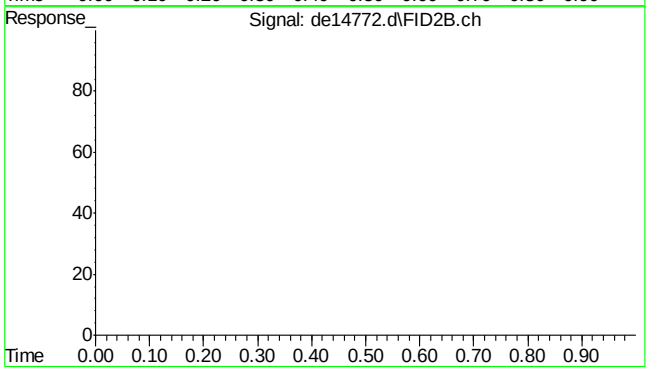
#43 bht

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



#44 bht

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



#45 bht

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

9.4.10

9

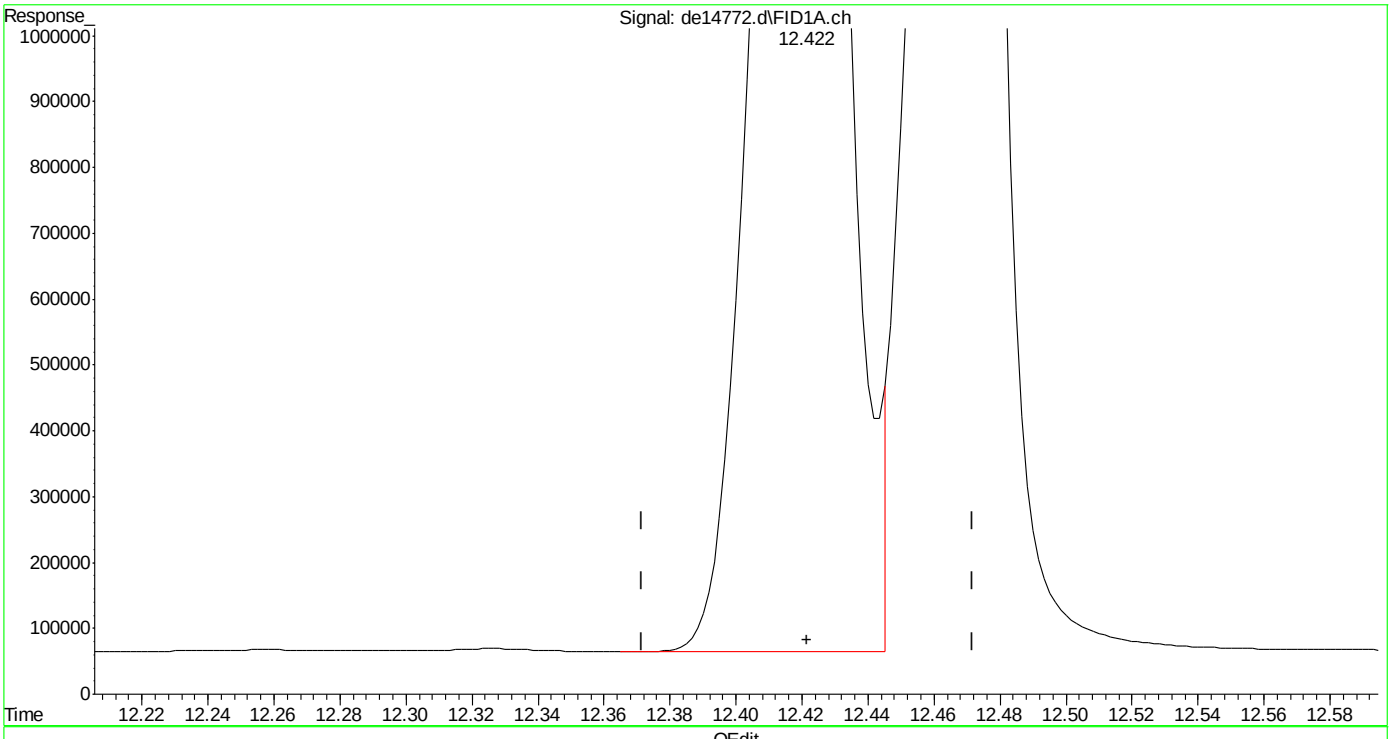
SGS ACCUTEST MC46423

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:00:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
12.422min 41.902 µg/ml
response 5090389

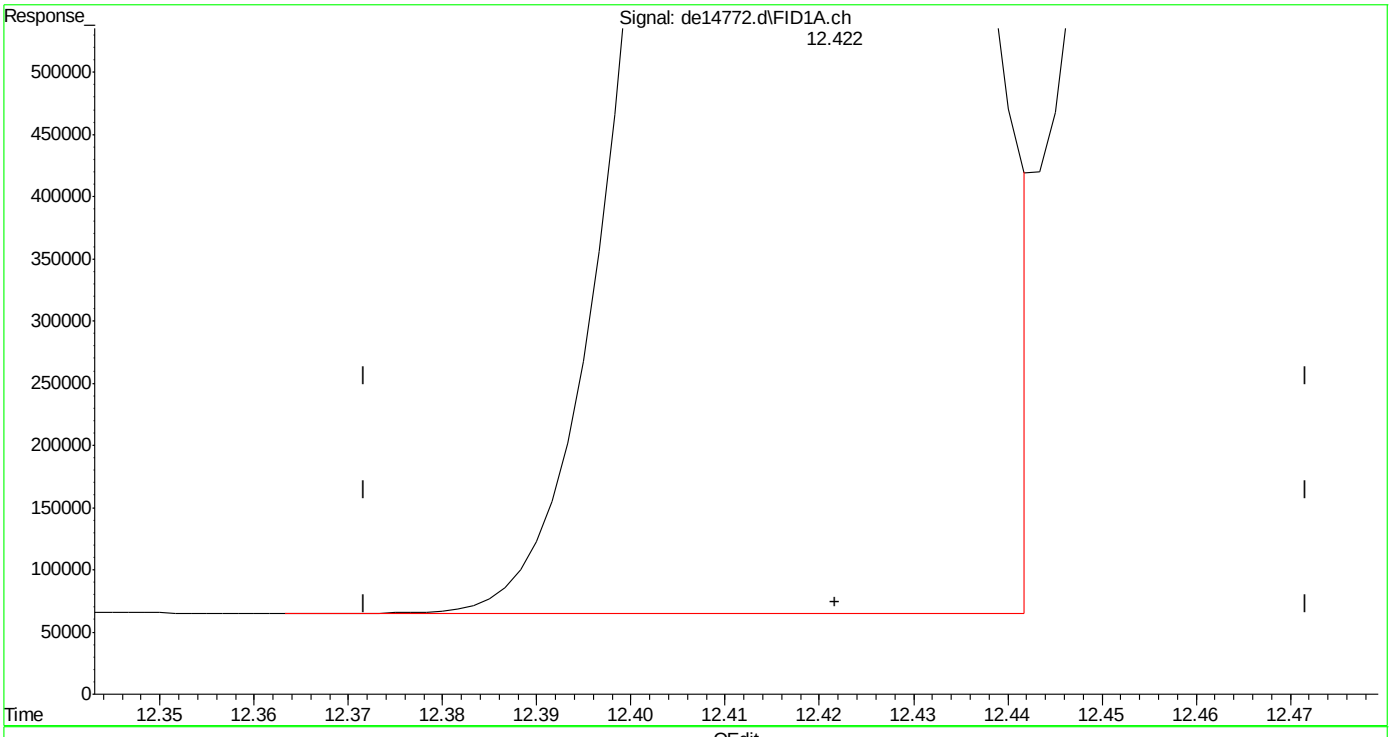
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:00:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 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
12.422min 41.285 µg/ml m
response 5015341

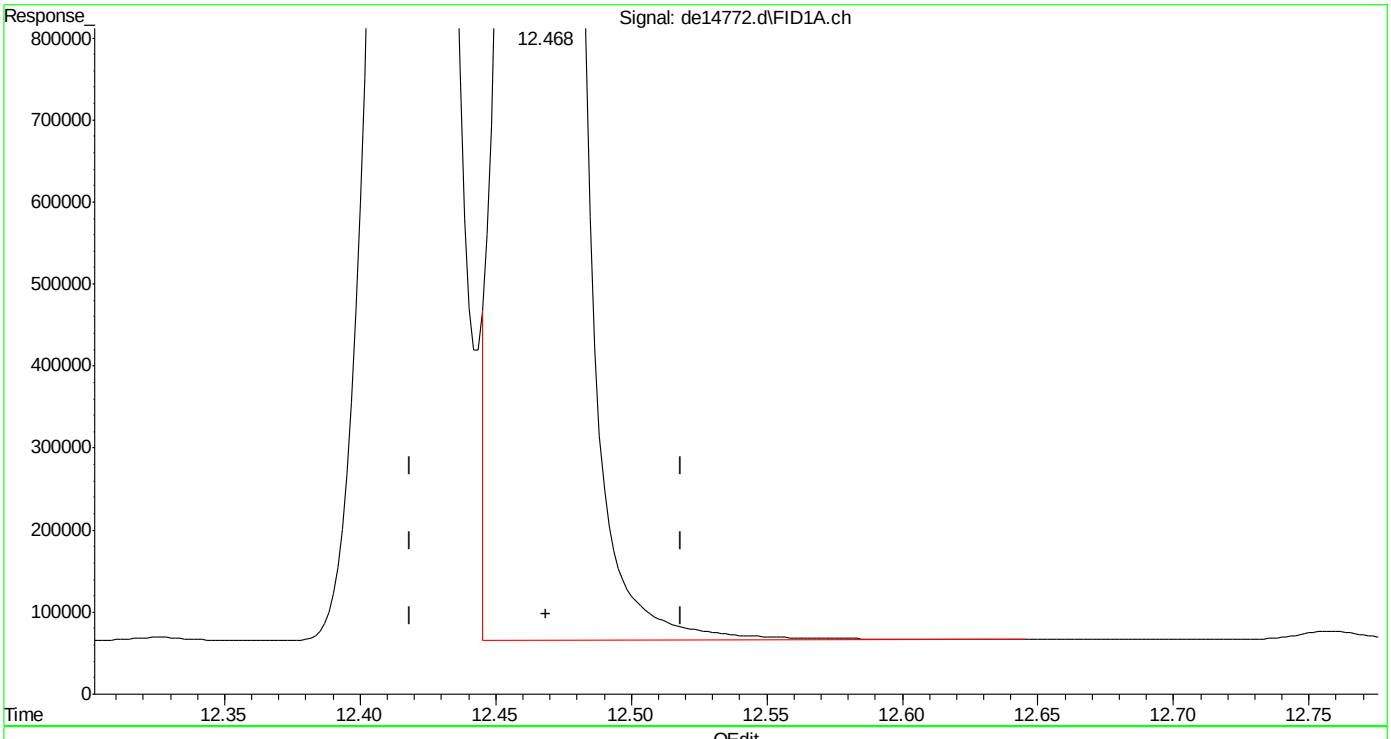
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:00:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.468min 39.666 µg/ml
response 5063354

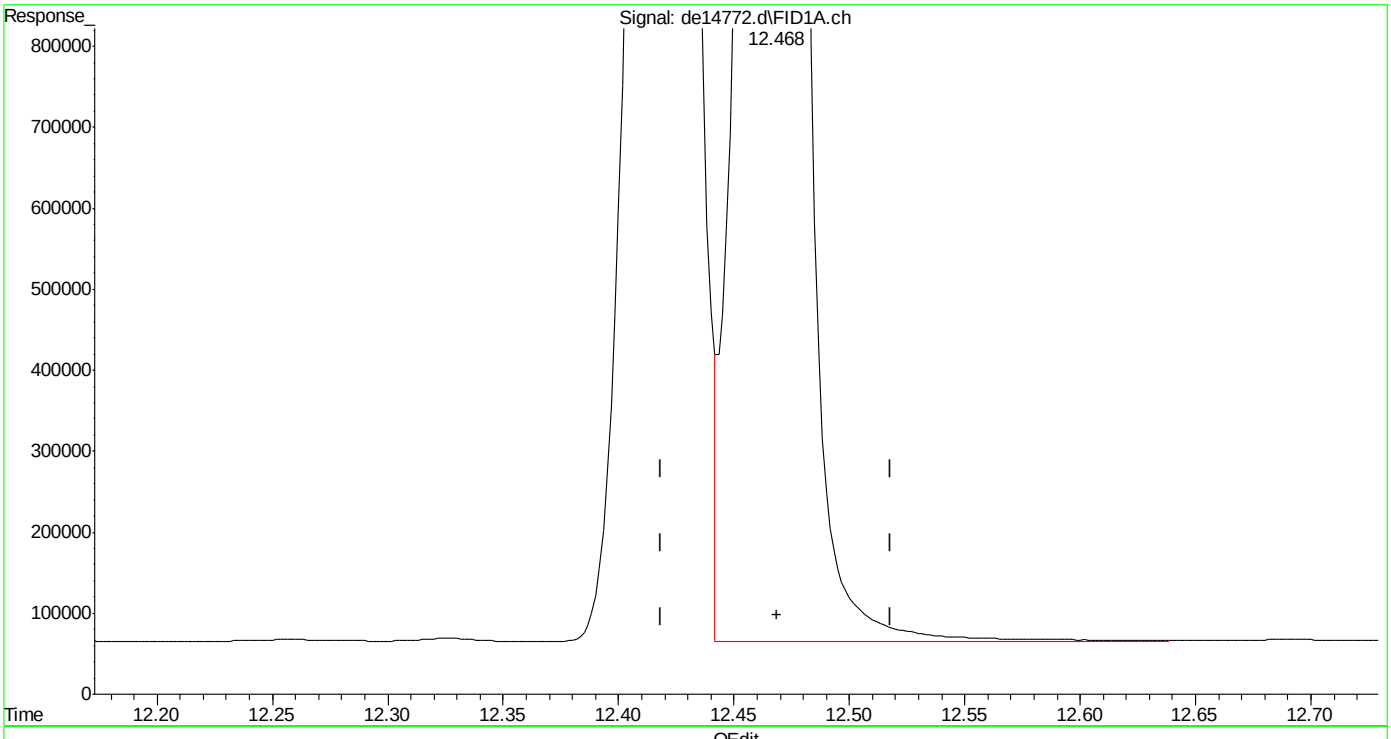
(+) = Expected Retention Time
EPH160630W.M Fri Jul 01 08:01:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160630EPH\
Data File : de14772.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 30 Jun 2016 5:48 pm
Operator : thomasa
Sample : ecc815-50,gde820 (Sig #1); cc815-50,gde820 (Sig #2)
Misc : op47862,gde820,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jul 01 08:00:59 2016
Quant Method : C:\msdchem\1\METHODS\EPH160630W.M
Quant Title : BMAEPH-working method
QLast Update : Thu Jun 30 08:49:51 2016
Response via : Initial Calibration
Integrator: RTE

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



(15) chrysene
12.468min 40.373 µg/ml m
response 5153593

(+) = Expected Retention Time

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 6.22.16

Analyst Signature:

Standard Data

Lot #	Description	Conc
~~GS18062~~	~~Ai CCV~~	
~~L 055~~	~~Aro CCV~~	
GS18250	Ai CCV	50ug/ml
L 251	Aro CCV	50ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: 160622EPH.S
Quantitation Methods: EPH160622W.m

Instrument Run Batches: GDE 815

Data Acquisition Methods: EPH DUAL W Inj. Vol: 1ml
Inj. Vol:

Date of ICAL: 6.22.16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
101/102	DE14665	Prime	N/A	MA EPH	N/A	N/A	
101/102	66	IC815-1					1:200 Dilution of STOCK STDS
103/104	67	-2					1:100
105/106	68	-5					1:40
107/108	69	-20					1:10
109/110	70	IC815-50					1:4
111/112	71	IC815 -100					1:2
113/114	72	-200					Ai = GS18060 / Aro = GS18053 (STOCK STDS)
115/116	73	ICV815 -50					ICV = GOOD - Ai = GS18059 / Aro = GS18052
121/122	74	MC46445-1	OP47897		S		
1/2	75	OP47910-BS	OP47910		W		
3/4	76	-BSD					
5/6	77	-MB					
7/8	78	MC46422-1					LOD 1
9/10	79	-2					2
11/12	80	-3					3
13/14	81	-4					4
15/16	82	-5					5
17/18	83	-6					LOQ 1
141/142	84	IC815-50	N/A		N/A		
19/20	85	MC46422-7	OP47910		W		LOQ 2
21/22	86	-8					3
23/24	87	-9					4
25/26	88	OP47912-BS	OP47912		S		
27/28	89	-BSD					
29/30	90	-MB					
31/32	DE14691	MC46416-1					LOD 1

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent:_____ Lot#:_____

GC014-01
Date: 9/15/10

Review:_____

SGS ACCUTEST MC46423

SGS Accutest, Inc.

Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 6-22-16

Analyst Signature: [signature]

Standard Data

Lot #	Description	Conc
	see page 1	

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File:
Quantitation Methods:
Instrument Run Batches: see page 1
Data Acquisition Methods: Inj. Vol:
Inj. Vol:

Date of ICAL: 6-22-16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
33/34	DE14692	mc46416-2	op47912	MA EPH	S	N/A	LOD 2
35/36	93	-3					3
37/38	94	-4					4
141/142	95	CC815-50	N/A		N/A		ok
39/40	96	mc46416-5	op47912		S		LOQ 1
41/42	97	-6					2
43/44	98	-7					3
45/46	DE14699	-8					4
141/142	DE14700	CC815-50	N/A		N/A		ok

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14673.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	icv815-50

Name	Amount	Response
c-9	49.76	4195241
c-10	50.89	4290577
c-12	49.91	4207991
c-14	49.40	4164771
c-16	48.67	4102769
c-18	47.70	4021156
c-19	50.77	3951249
c-20	50.17	3904441
c-22	50.47	3927561
c-24	49.76	3872214
c-26	48.27	3756324
c-28	47.34	3684091
c-30	46.33	3605357
c-36	41.61	3238093
1-chlorooctadecane	58.77	3828846
naphthalene #2	50.98	4634254
2-methylnaphthalene	50.67	4557390

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	83275	84306	**1.23**	**In Criteria**
C19-C36	74848	77824	**3.90**	**In Criteria**
c28/c20 Percentage:			94.36	

9.5.1

9

SGS ACCUTEST MC46423

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14684.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc815-50,gde815

Name	Amount	Response
c-9	51.72	4360013
c-10	52.41	4418750
c-12	51.27	4322472
c-14	50.81	4283569
c-16	50.39	4247877
c-18	49.38	4163154
c-19	52.84	4112130
c-20	51.48	4006070
c-22	51.23	3986727
c-24	48.07	3741265
c-26	50.92	3962863
c-28	49.29	3835912
c-30	50.07	3896601
c-36	44.80	3486644

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	85986	84306	**1.97**	**In Criteria**
C19-C36	77571	77824	**0.33**	**In Criteria**

c28/c20 Percentage: 95.75

1-chlorooctadecane	49.93	3253399
naphthalene #2	51.46	4678638
2-methylnaphthalene	51.43	4625207

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14695.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc815-50,gde815

Name	Amount	Response
c-9	52.39	4416416
c-10	52.71	4443558
c-12	52.24	4403938
c-14	51.92	4377235
c-16	51.11	4308985
c-18	51.07	4305740
c-19	55.03	4282428
c-20	53.87	4192663
c-22	53.47	4161601
c-24	50.13	3901240
c-26	53.43	4158086
c-28	51.52	4009593
c-30	52.11	4055521
c-36	46.76	3639315

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	87520	84306	**3.74**	**In Criteria**
C19-C36	81001	77824	**4.00**	**In Criteria**

c28/c20 Percentage: 95.63

1-chlorooctadecane	52.12	3395960
naphthalene #2	51.89	4717292
2-methylnaphthalene	52.25	4699085

9.5.1

9

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14700.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc815-50,gde815

Name	Amount	Response
c-9	54.99	4635661
c-10	55.48	4677229
c-12	54.09	4559854
c-14	53.84	4539211
c-16	52.41	4418733
c-18	51.62	4351911
c-19	55.79	4341478
c-20	53.87	4192730
c-22	53.36	4152734
c-24	49.98	3889501
c-26	53.19	4139722
c-28	51.46	4005038
c-30	52.36	4074754
c-36	46.77	3640022

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	90609	84306	**7.21**	**In Criteria**
C19-C36	81090	77824	**4.11**	**In Criteria**
c28/c20 Percentage:			95.52	

1-chlorooctadecane	52.22	3402363
naphthalene #2	54.03	4912021
2-methylnaphthalene	54.59	4909207

9.5.1

9

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47910-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.83	50	63.32	
2-methylnaphthalene		15.64	50	62.55	
2-fluorobiphenyl	s	15.90	40	79.48	
acenaphthylene		15.91	50	63.62	
2-bromonaphthalene	s	15.96	40	79.82	
acenaphthene		15.73	50	62.93	
fluorene		16.24	50	64.97	
phenanthrene		16.57	50	66.27	
anthracene		16.79	50	67.15	
o-terphenyl	s	14.63	40	73.17	
fluoranthene		17.74	50	70.96	
pyrene		17.57	50	70.26	
benzo(a)anthracene		18.44	50	73.76	
chrysene		18.27	50	73.07	
benzo(B)fluoranthene		19.29	50	77.14	
benzo(k)fluoranthene		17.43	50	69.74	
benzo(a)pyrene		18.93	50	75.70	
indeno(1,2,3-cd)pyrene		18.88	50	75.52	
dibenzo(ah)anthracene		19.57	50	78.28	
benzo(ghi)perylene		19.53	50	78.12	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		15.89	50	63.55	
c-10		19.05	50	76.20	
c-12		20.46	50	81.82	
c-14		20.65	50	82.59	
c-16		20.81	50	83.23	
c-18		21.99	50	87.96	
c-19		24.40	50	97.58	
c-20		24.95	50	99.81	
1-chlorooctadecane	s	15.92	40	79.60	
c-22		25.54	50	102.17	
c-24		25.06	50	100.26	
c-26		24.35	50	97.40	
c-28		23.81	50	95.26	
c-30		23.87	50	95.47	
c-36		20.48	50	81.90	

Recovery C9-C18
79.22

Recovery C19-C36
96.23

naphthalene #2	0.07	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.06	0.42	0.37

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47910-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.54	50	58.18	
2-methylnaphthalene		14.77	50	59.09	
2-fluorobiphenyl	s	15.89	40	79.47	
acenaphthylene		15.24	50	60.97	
2-bromonaphthalene	s	15.54	40	77.69	
acenaphthene		15.25	50	61.01	
fluorene		15.74	50	62.95	
phenanthrene		16.37	50	65.46	
anthracene		16.56	50	66.26	
o-terphenyl	s	14.07	40	70.35	
fluoranthene		17.79	50	71.16	
pyrene		17.33	50	69.34	
benzo(a)anthracene		18.89	50	75.54	
chrysene		18.28	50	73.13	
benzo(B)fluoranthene		20.52	50	82.06	
benzo(k)fluoranthene		16.56	50	66.25	
benzo(a)pyrene		19.16	50	76.62	
indeno(1,2,3-cd)pyrene		19.12	50	76.46	
dibenzo(ah)anthracene		19.32	50	77.27	
benzo(ghi)perylene		19.50	50	78.02	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		13.22	50	52.89	
c-10		16.09	50	64.35	
c-12		17.92	50	71.67	
c-14		17.54	50	70.18	
c-16		17.80	50	71.22	
c-18		19.17	50	76.70	
c-19		21.30	50	85.21	
c-20		22.06	50	88.24	
1-chlorooctadecane	s	17.63	40	88.17	
c-22		22.33	50	89.34	
c-24		21.80	50	87.18	
c-26		21.13	50	84.50	
c-28		20.83	50	83.31	
c-30		20.83	50	83.33	
c-36		17.83	50	71.32	

Recovery C9-C18
67.83

Recovery C19-C36
84.05

naphthalene #2	0.40	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.19	2.69	1.28

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47912-bs

Aromatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		10.64	50	42.55	
2-methylnaphthalene		10.60	50	42.40	
2-fluorobiphenyl	s	13.83	40	69.14	
acenaphthylene		11.27	50	45.08	
2-bromonaphthalene	s	13.21	40	66.06	
acenaphthene		11.46	50	45.82	
fluorene		11.70	50	46.81	
phenanthrene		12.47	50	49.89	
anthracene		13.09	50	52.35	
o-terphenyl	s	11.28	40	56.38	
fluoranthene		14.46	50	57.85	
pyrene		14.36	50	57.45	
benzo(a)anthracene		15.46	50	61.83	
chrysene		15.16	50	60.66	
benzo(B)fluoranthene		16.12	50	64.47	
benzo(k)fluoranthene		14.62	50	58.49	
benzo(a)pyrene		15.85	50	63.41	
indeno(1,2,3-cd)pyrene		15.72	50	62.87	
dibenzo(ah)anthracene		16.44	50	65.75	
benzo(ghi)perylene		16.29	50	65.18	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		12.43	50	49.73	
c-10		14.63	50	58.51	
c-12		15.53	50	62.13	
c-14		15.76	50	63.05	
c-16		16.43	50	65.72	
c-18		18.18	50	72.74	
c-19		20.23	50	80.93	
c-20		20.76	50	83.06	
1-chlorooctadecane	s	13.88	40	69.41	
c-22		21.21	50	84.84	
c-24		21.16	50	84.64	
c-26		20.61	50	82.43	
c-28		20.29	50	81.17	
c-30		20.24	50	80.95	
c-36		17.43	50	69.71	

Recovery C9-C18
61.98

Recovery C19-C36
80.97

naphthalene #2	0.06	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.07	0.57	0.69

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47912-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		13.74	50	54.94	
2-methylnaphthalene		14.03	50	56.12	
2-fluorobiphenyl	s	14.42	40	72.08	
acenaphthylene		14.65	50	58.59	
2-bromonaphthalene	s	14.57	40	72.84	
acenaphthene		14.53	50	58.12	
fluorene		15.23	50	60.91	
phenanthrene		15.80	50	63.20	
anthracene		16.25	50	65.00	
o-terphenyl	s	13.25	40	66.26	
fluoranthene		17.41	50	69.65	
pyrene		17.46	50	69.84	
benzo(a)anthracene		18.43	50	73.74	
chrysene		18.23	50	72.91	
benzo(B)fluoranthene		19.60	50	78.42	
benzo(k)fluoranthene		16.77	50	67.09	
benzo(a)pyrene		18.83	50	75.33	
indeno(1,2,3-cd)pyrene		18.80	50	75.20	
dibenzo(ah)anthracene		19.15	50	76.62	
benzo(ghi)perylene		19.25	50	77.01	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		14.70	50	58.79	
c-10		17.04	50	68.15	
c-12		18.28	50	73.11	
c-14		18.48	50	73.90	
c-16		18.93	50	75.71	
c-18		19.94	50	79.78	
c-19		22.17	50	88.68	
c-20		22.41	50	89.65	
1-chlorooctadecane	s	13.78	40	68.89	
c-22		23.21	50	92.85	
c-24		23.07	50	92.27	
c-26		22.60	50	90.39	
c-28		22.16	50	88.63	
c-30		22.32	50	89.27	
c-36		19.72	50	78.89	

Recovery C9-C18
71.57

Recovery C19-C36
88.83

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

Operator thomasa
Instrument Nai GCDE

BMAEPH - Aromatic Calibration

	de14672.d	de14671.d	de14670.d	de14669.d	de14668.d	de14667.d	de14666.d
	200	100	50	20	5	2	1
naphthalene	23929928	11983627	6623759	2761210	613912	264011	113943
2-methylnaphthalene	23749913	11763665	6449170	2757665	647160	279926	110362
acenaphthylene	23550221	11745266	6467035	2699454	631728	273879	122875
acenaphthene	24636559	12324034	6839743	2910644	690779	317977	149113
fluorene	24085117	12025206	6614321	2748574	642877	281653	119469
phenanthrene	24106717	12085999	6609576	2679317	606352	261923	114628
anthracene	22785902	11487748	6241594	2716250	684741	321096	144305
fluoranthene	23418788	11886285	6526164	2677937	635011	285254	127841
pyrene	23940175	12197688	6691657	2734764	645412	292246	131934
benzo(a)anthracene	22291957	11507490	6286876	2555074	589300	269926	117526
chrysene	22470484	11612003	6308858	2573974	623706	290892	140012
benzo(B)fluoranthene	22828942	12199538	6276008	2466504	584753	248683	102498
benzo(k)fluoranthene	21742175	10965306	6302924	2513496	612352	320118	143585
benzo(a)pyrene	21269399	10999807	5968168	2419189	570345	266332	121812
indeno(1,2,3-cd)pyrene	24533309	11203362	5972476	2411740	547262	247469	111401
dibenzo(ah)anthracene	19101555	10503451	5802054	2357845	564801	255274	118078
benzo(ghi)perylene	21702878	10703286	5770697	2338304	541223	246509	114951
Total Mass (Targets)	3400	1700	850	340	85	34	17
Total Area (Targets)	390144019	197193761	107751080	44321941	10431714	4723168	2104333
RF	114748	115996	126766	130359	122726	138917	123784
Average RF	124757						

% RSD **6.19** **<25%**
C11-C22 Aromatics **24951321** **Insert into 200ppm level**

BMAEPH - Aliphatic Calibration

Instrument Name GCDE
Operator thomasa

	de14672.d	de14671.d	de14670.d	de14669.d	de14668.d	de14667.d	de14666.d
	200	100	50	20	5	2	1
c-9	15645868	7937669	4268198	1780249	436956	185709	80145
c-10	15836986	8047408	4303580	1799081	446232	187715	81660
c-12	15551710	7886242	4254199	1778842	432854	183928	80147
c-14	15402298	7814489	4224254	1773611	433815	186756	80327
c-16	15150013	7764221	4179046	1757632	435918	188090	83899
c-18	15122313	7676676	4132964	1741774	428513	183338	80411
Total Mass	1200	600	300	120	30	12	6
Total Area	92709188	47126705	25362241	10631189	2614288	1115536	486589
RF	77258	78545	84541	88593	87143	92961	81098
Average RF	84306						
% RSD	6.25	**<25%**					
C9 -C18	16861104	**Inserted into 200 ppm level**					
c-19	15097457	7623083	4137861	1723593	421112	187087	84447
c-20	14729110	7477882	4040583	1694193	414796	178236	77747
c-22	14630809	7420088	4011818	1677797	410716	172417	79966
c-24	13632931	6931545	3738267	1563000	382937	167132	75293
c-26	14575529	7429512	3986914	1663159	406080	174403	77835
c-28	14116516	7155151	3856562	1607781	391589	160693	72455
c-30	13936754	7181147	3850472	1615388	408558	187403	93535
c-36	13213232	6572820	3524293	1450363	339764	136856	59371
Total Mass	1600	800	400	160	40	16	8
Total Area	113932338	57791228	31146770	12995274	3175552	1364227	620649
RF	71208	72239	77867	81220	79389	85264	77581
Aerage RF	77824						
% RSD	5.84	**<25%**					
C19-C36	15564807	**Inserted into 200 ppm level**					

SGS Accutest, Inc. Instrument: GC 32 (DE)

GC Analysis Log - Extractables

Run Date: 6.30.16 Analyst Signature:

Standard Data

Lot #	Description	Conc
6518250	Pri CCV	50 ug/ml
↓ 257	Ano CCV	50 ug/ml

Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: 160630.s
Quantitation Methods: EPA 160630W.m

Instrument Run Batches: GDE 820

Data Acquisition Methods: EPA DOALW Inj. Vol: 1ul
Inj. Vol:

Date of ICAL: 6.22.16 ICAL Verified ✓ Sample positions verified against sequence: ✓

Vial #	Data File ID	Sample ID	Ext.Batch	Analysis	Matrix	Dilution	Comments
141/142	DE14760	CC815-50	N/A	MA EPA	N/A	N/A	OK / NOT reported
141/142	61	CC815-50	↓		↓		OK
1/2	62	OP47988-BS	OP47988		W		
3/4	63	-BSD					
5/6	64	-MB					
7/8	65	MC46423-1A					
9/10	66	-2A					
11/12	67	-3A					
13/14	68	-4A					
15/16	69	-5A					
17/18	70	-6A					
19/20	71	-7A					
141/142	DE14772	CCC815-50	N/A		N/A		OK

MTX = Matrix: Designate **W** for water, **S** for soil, **O** for oil. Dilution Solvent: N/A Lot#: N/A

GC014-01
Date: 9/15/10

Review:

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14761.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	cc815-50,gde820

Name	Amount	Response
c-9	54.95	4632457
c-10	55.44	4674152
c-12	54.68	4609588
c-14	54.60	4602794
c-16	53.90	4543842
c-18	53.66	4523578
c-19	58.24	4532580
c-20	56.25	4377418
c-22	56.00	4358479
c-24	53.18	4138588
c-26	56.36	4386274
c-28	53.88	4193101
c-30	55.75	4338502
c-36	48.92	3806834

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	91955	84306	**8.68**	**In Criteria**
C19-C36	85329	77824	**9.20**	**In Criteria**
c28/c20 Percentage:			95.79	

1-chlorooctadecane	54.86	3574362
naphthalene #2	54.88	4988849
2-methylnaphthalene	54.84	4931873

9.5.2

9

SGS ACCUTEST MC46423

BMAEPH - Aliphatic Continuing Calibration Report

Data File Name	de14772.d
Operator	thomasa
Instrument Name	GCDE
Sample Name	ecc815-50,gde820

Name	Amount	Response
c-9	51.00	4299322
c-10	51.50	4342046
c-12	50.89	4290549
c-14	50.64	4269653
c-16	50.34	4244232
c-18	50.31	4241335
c-19	54.25	4222338
c-20	53.18	4138765
c-22	53.22	4141798
c-24	49.35	3840681
c-26	52.94	4119738
c-28	51.00	3969018
c-30	50.98	3967672
c-36	46.37	3608552

	Continuing Avg. RF	Initial Avg. RF	%Diff	
C9-C18	85624	84306	**1.55**	**In Criteria**
C19-C36	80021	77824	**2.78**	**In Criteria**
c28/c20 Percentage:			95.90	

1-chlorooctadecane	51.81	3375887
naphthalene #2	50.85	4622436
2-methylnaphthalene	51.25	4609464

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47988-bs

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		14.68	50	58.73	
2-methylnaphthalene		15.25	50	60.98	
2-fluorobiphenyl	s	17.41	40	87.04	
acenaphthylene		16.28	50	65.13	
2-bromonaphthalene	s	17.30	40	86.52	
acenaphthene		16.11	50	64.45	
fluorene		17.03	50	68.12	
phenanthrene		17.66	50	70.63	
anthracene		18.30	50	73.19	
o-terphenyl	s	15.30	40	76.50	
fluoranthene		19.05	50	76.20	
pyrene		18.87	50	75.47	
benzo(a)anthracene		19.72	50	78.88	
chrysene		19.30	50	77.19	
benzo(B)fluoranthene		19.04	50	76.16	
benzo(k)fluoranthene		19.49	50	77.95	
benzo(a)pyrene		19.85	50	79.38	
indeno(1,2,3-cd)pyrene		19.83	50	79.34	
dibenzo(ah)anthracene		20.38	50	81.50	
benzo(ghi)perylene		20.26	50	81.03	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		11.07	50	44.27	
c-10		13.98	50	55.92	
c-12		15.83	50	63.30	
c-14		16.77	50	67.07	
c-16		17.13	50	68.52	
c-18		18.12	50	72.47	
c-19		19.82	50	79.27	
c-20		19.55	50	78.22	
1-chlorooctadecane	s	14.25	40	71.23	
c-22		19.72	50	78.89	
c-24		19.55	50	78.19	
c-26		19.10	50	76.41	
c-28		18.61	50	74.45	
c-30		18.46	50	73.83	
c-36		13.78	50	55.10	

Recovery C9-C18
61.92

Recovery C19-C36
74.30

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

BMAEPH - BS/BSD Report

Operator thomasa
Instrument Name GCDE
Sample Name op47988-bsd

Aromatic Recovery

Name		Amount	Spiked	Recovery	Outside Limits?
naphthalene		15.63	50	62.52	
2-methylnaphthalene		16.40	50	65.59	
2-fluorobiphenyl	s	18.88	40	94.40	
acenaphthylene		17.83	50	71.32	
2-bromonaphthalene	s	19.43	40	97.17	
acenaphthene		18.78	50	75.12	
fluorene		18.88	50	75.51	
phenanthrene		20.12	50	80.49	
anthracene		20.46	50	81.84	
o-terphenyl	s	16.59	40	82.96	
fluoranthene		22.08	50	88.33	
pyrene		21.94	50	87.77	
benzo(a)anthracene		23.60	50	94.42	
chrysene		22.75	50	91.00	
benzo(B)fluoranthene		23.46	50	93.86	
benzo(k)fluoranthene		23.14	50	92.56	
benzo(a)pyrene		24.02	50	96.09	
indeno(1,2,3-cd)pyrene		24.16	50	96.65	
dibenzo(ah)anthracene		24.93	50	99.72	
benzo(ghi)perylene		24.89	50	99.57	

Aliphatic Recovery Name		Amount	Spiked	Recovery	Outside Limits?
c-9		10.31	50	41.24	
c-10		13.47	50	53.87	
c-12		15.57	50	62.26	
c-14		16.64	50	66.55	
c-16		17.27	50	69.10	
c-18		18.35	50	73.41	
c-19		20.10	50	80.38	
c-20		20.23	50	80.93	
1-chlorooctadecane	s	12.56	40	62.81	
c-22		19.99	50	79.97	
c-24		19.64	50	78.55	
c-26		19.09	50	76.38	
c-28		18.72	50	74.87	
c-30		18.23	50	72.94	
c-36		13.64	50	54.55	

Recovery C9-C18
61.07

Recovery C19-C36
74.82

naphthalene #2	0.00	**Naphthalene Breakthrough**	**2-Methylnaphthalene Breakthrough**
2-methylnaphthalene #2	0.00	0.00	0.00

SGS ACCUTEST

Extraction Log - Aqueous

Extraction Method:		Analysis method and test code: BNA EPHR	
Sep Funnel SW3510C ✓	MSE EPA3511	EPA 608	SW846 8315/8330/8011
Waste Dilution SW3580A		EPA 504	EPA 625

Spike ID	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7731	200	250

Surrogate	Lot #	Conc. (ug/ml)	Vol. (ul)
EPH	7483	2000	20
EPH Fn	7782	40	1 ml

Sample #	Sample Bottle #	Acid pH	Base pH	Sample Initial Volume (mL)	Final Extract Final Volume (mL)	Comments
OP47988 - MB	N/A	2	N/A	1000	2.0	
BS	↓	↓	↓	↓	↓	
BSD	↓	↓	↓	↓	↓	
MS						
MSD						
1 MC46423-1A	4	2	N/A	950	2.0	
2 -2A	4	↓	↓	920	↓	
3 -3A	3	↓	↓	935	↓	
4 -4A	3	↓	↓	970	↓	
5 -5A	3	↓	↓	940	↓	
6 -6A	3	↓	↓	940	↓	
7 -7A	4	↓	↓	920	↓	
8						
9						
10						
11						
12						
13						
14						
15						
16						AJ 6/30/16
17						
18						
19						
20						

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

Comments:

BATCH # OP47988	INITIALS	DATE	TIME
Extracted by:	IC	6/27/16	16:30
Spike Witness:	KV	↓	↓
Concentrated by:	AJ	6/30/16	11:50
Fractionated by:	AJ	Volume (ml):	12.5-l
Received by:	AJ	6/30/16	11:50

Tray # GC-19

Equipment/ Range	ID	Temp (°C)	Press/Flow
Buchi (55-71 °C)	1	55/60	—
Waterbath Temp °C	—	—	—
NEVAP (32-38 °C)	005	38	—
Chiller	—	—	—
Balance	—	N/A	N/A

SOLVENT	LOT #	BRAND
HEXANE Only	163016	Fisher
ETHER	—	Fisher
ACETONITRILE	—	Fisher
ACETONE	—	Fisher
DCM	162272	Fisher

REAGENT	LOT #	BRAND
SPE MFG	9630895	Restek
SILICA GEL	—	—
SODIUM SULFATE	D-025	FISHER
CITRATE BUFFER	—	—
COPPER	—	—
FLORISIL	—	—
SULFURIC ACID	—	—
NaOH	—	—
DNPH	—	—
FILTER PAPER	96108541	FISHER
POREPAK RDX CARTRIDGES	—	—
pH PAPER	216814	HYDRION

Filtered by: Init./Date:

SGS ACCUTEST - MARLBOROUGH
Form: OP018-03
Rev Date: 4/26/16