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# Technical Report for

## Anderson Mulholland and Assoc.

BMSMC, Building 5 Area, Puerto Rico

2Q 2016 Groundwater Sampling

SGS Accutest Job Number: MC46487

Sampling Dates: 06/16/16 - 06/20/16

Report to:

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Total number of pages in report: 822

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

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# Sample Summary

Anderson Mulholland and Assoc.

**Job No:** MC46487

BMSMC, Building 5 Area, Puerto Rico
Project No: 2Q 2016 Groundwater Sampling

| Sample Number | Collected Date | Time | By | Received | Matrix Code | Type | Client Sample ID |
|---|---|---|---|---|---|---|---|
| MC46487-1 | 06/16/16 | 15:45 | NR | 06/21/16 | AQ | Ground Water | MW-3 |
| MC46487-2 | 06/17/16 | 11:10 | NR | 06/21/16 | AQ | Ground Water | MW-5 |
| MC46487-3 | 06/17/16 | 12:43 | NR | 06/21/16 | AQ | Ground Water | MW-13 |
| MC46487-4 | 06/17/16 | 15:05 | NR | 06/21/16 | AQ | Ground Water | BR-4 |
| MC46487-5 | 06/17/16 | 16:02 | NR | 06/21/16 | AQ | Ground Water | MW-16 |
| MC46487-6 | 06/20/16 | 12:35 | NR | 06/21/16 | AQ | Ground Water | MW-23S |
| MC46487-7 | 06/20/16 | 15:47 | NR | 06/21/16 | AQ | Ground Water | MW-21S |

# SAMPLE DELIVERY GROUP CASE NARRATIVE

| | | | |
|---|---|---|---|
| **Client:** | Anderson Mulholland and Assoc. | **Job No** | MC46487 |
| **Site:** | BMSMC, Building 5 Area, Puerto Rico | **Report Date** | 7/4/2016 3:39:11 PM |

7 Sample(s) were collected on between 06/16/2016 and 06/20/2016 and were received at SGS Accutest New England on 06/21/2016 properly preserved, at 5 Deg. C . These Samples received a job number of MC46487. A listing of the Laboratory Sample ID, Client Sample ID and dates of collection are presented in the Results Summary Section of this report. Sample MC46487-3, 950ml volume for BMAEPHR was received broken and no volume remains.

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:** GAB5203

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) MC46489-2MS, MC46489-2MSD were used as the QC samples indicated.

## Extractables by GC By Method MADEP EPH REV 1.1

**Matrix:** AQ **Batch ID:** OP47926

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- Sample(s) MC46487-1, MC46487-2, MC46487-4, MC46487-5, MC46487-6, MC46487-7 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(MC46487).

# Summary of Hits

**Job Number:** MC46487
**Account:** Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico
**Collected:** 06/16/16 thru 06/20/16

| Lab Sample ID / Analyte | Client Sample ID | Result/ Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **MC46487-1** | **MW-3** | | | | | |
| C5- C8 Aliphatics (Unadj.) | | 32.8 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C12 Aliphatics (Unadj.) | | 342 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C10 Aromatics (Unadj.) | | 232 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C5- C8 Aliphatics | | 32.5 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C12 Aliphatics | | 108 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C11-C22 Aromatics (Unadj.) | | 289 B | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 30.7 JB | 110 | 18 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 34.6 JB | 110 | 29 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 256 B | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| **MC46487-2** | **MW-5** | | | | | |
| C5- C8 Aliphatics (Unadj.) | | 36.1 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C12 Aliphatics (Unadj.) | | 476 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C10 Aromatics (Unadj.) | | 55.3 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C5- C8 Aliphatics | | 25.9 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C12 Aliphatics | | 84.6 | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C11-C22 Aromatics (Unadj.) | | 62.0 JB | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 24.7 JB | 110 | 18 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 30.4 JB | 110 | 29 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 59.2 JB | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| **MC46487-3** | **MW-13** | | | | | |
| C9- C12 Aliphatics (Unadj.) | | 31.7 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| **MC46487-4** | **BR-4** | | | | | |
| C9- C12 Aliphatics (Unadj.) | | 37.2 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C9- C10 Aromatics (Unadj.) | | 30.6 J | 50 | 25 | ug/l | MADEP VPH REV 1.1 |
| C11-C22 Aromatics (Unadj.) | | 44.3 JB | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 39.7 JB | 110 | 18 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 51.9 JB | 110 | 29 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 44.3 JB | 110 | 31 | ug/l | MADEP EPH REV 1.1 |
| **MC46487-5** | **MW-16** | | | | | |
| C11-C22 Aromatics (Unadj.) | | 36.9 JB | 110 | 30 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 23.3 JB | 110 | 18 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 32.5 JB | 110 | 29 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 36.9 JB | 110 | 30 | ug/l | MADEP EPH REV 1.1 |

# Summary of Hits

**Job Number:** MC46487
**Account:** Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico
**Collected:** 06/16/16 thru 06/20/16



| Lab Sample ID<br>Analyte | Client Sample ID | Result/<br>Qual | RL | MDL | Units | Method |
|---|---|---|---|---|---|---|
| **MC46487-6** | **MW-23S** | | | | | |
| C11-C22 Aromatics (Unadj.) | | 34.3 JB | 100 | 29 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 20.8 JB | 100 | 17 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 29.5 JB | 100 | 28 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 33.8 JB | 100 | 29 | ug/l | MADEP EPH REV 1.1 |
| **MC46487-7** | **MW-21S** | | | | | |
| C11-C22 Aromatics (Unadj.) | | 33.3 JB | 100 | 30 | ug/l | MADEP EPH REV 1.1 |
| C9-C18 Aliphatics | | 22.4 JB | 100 | 17 | ug/l | MADEP EPH REV 1.1 |
| C19-C36 Aliphatics | | 40.0 JB | 100 | 28 | ug/l | MADEP EPH REV 1.1 |
| C11-C22 Aromatics | | 32.8 JB | 100 | 30 | ug/l | MADEP EPH REV 1.1 |

## Sample Results

Report of Analysis

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# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-3 | | |
| **Lab Sample ID:** | MC46487-1 | **Date Sampled:** | 06/16/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94439.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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.) | 32.8 | 50 | 25 | ug/l | J |
| | C9- C12 Aliphatics (Unadj.) | 342 | 50 | 25 | ug/l | |
| | C9- C10 Aromatics (Unadj.) | 232 | 50 | 25 | ug/l | |
| | C5- C8 Aliphatics | 32.5 | 50 | 25 | ug/l | J |
| | C9- C12 Aliphatics | 108 | 50 | 25 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 79% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 88% | | 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:** | MW-3 | | |
| **Lab Sample ID:** | MC46487-1 | **Date Sampled:** | 06/16/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14751.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| Run #2 | | | | | | | |

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

**Extractable TPHC Ranges**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 289 | 110 | 31 | ug/l | B |
| | C9-C18 Aliphatics | 30.7 | 110 | 18 | ug/l | JB |
| | C19-C36 Aliphatics | 34.6 | 110 | 29 | ug/l | JB |
| | C11-C22 Aromatics | 256 | 110 | 31 | ug/l | B |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 61% | | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 80% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 64% | | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 85% | | 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:** | MW-5 | | |
| **Lab Sample ID:** | MC46487-2 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94440.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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.) | 36.1 | 50 | 25 | ug/l | J |
| | C9- C12 Aliphatics (Unadj.) | 476 | 50 | 25 | ug/l | |
| | C9- C10 Aromatics (Unadj.) | 55.3 | 50 | 25 | ug/l | |
| | C5- C8 Aliphatics | 25.9 | 50 | 25 | ug/l | J |
| | C9- C12 Aliphatics | 84.6 | 50 | 25 | ug/l | |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 83% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 94% | | 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:** | MW-5 | | |
| **Lab Sample ID:** | MC46487-2 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14752.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| Run #2 | | | | | | | |

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

**Extractable TPHC Ranges**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 62.0 | 110 | 31 | ug/l | JB |
| | C9-C18 Aliphatics | 24.7 | 110 | 18 | ug/l | JB |
| | C19-C36 Aliphatics | 30.4 | 110 | 29 | ug/l | JB |
| | C11-C22 Aromatics | 59.2 | 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 | 80% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 67% | | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 89% | | 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:** | MW-13 | | |
| **Lab Sample ID:** | MC46487-3 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94441.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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.) | 31.7 | 50 | 25 | ug/l | J |
| | 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 | 79% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 88% | | 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:** | BR-4 | | |
| **Lab Sample ID:** | MC46487-4 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94442.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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.) | 37.2 | 50 | 25 | ug/l | J |
| | C9- C10 Aromatics (Unadj.) | 30.6 | 50 | 25 | ug/l | J |
| | 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 | 78% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 87% | | 70-130% |

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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | BR-4 | | |
| **Lab Sample ID:** | MC46487-4 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14753.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| Run #2 | | | | | | | |

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

**Extractable TPHC Ranges**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 44.3 | 110 | 31 | ug/l | JB |
| | C9-C18 Aliphatics | 39.7 | 110 | 18 | ug/l | JB |
| | C19-C36 Aliphatics | 51.9 | 110 | 29 | ug/l | JB |
| | C11-C22 Aromatics | 44.3 | 110 | 31 | ug/l | JB |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 44% | | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 70% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 45% | | 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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-16 | | |
| **Lab Sample ID:** | MC46487-5 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94443.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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 | 78% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 87% | | 70-130% |

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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-16 | | |
| **Lab Sample ID:** | MC46487-5 | **Date Sampled:** | 06/17/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14754.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| 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.) | 36.9 | 110 | 30 | ug/l | JB |
| | C9-C18 Aliphatics | 23.3 | 110 | 18 | ug/l | JB |
| | C19-C36 Aliphatics | 32.5 | 110 | 29 | ug/l | JB |
| | C11-C22 Aromatics | 36.9 | 110 | 30 | ug/l | JB |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 57% | | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 80% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 56% | | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 88% | | 40-140% |

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

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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-23S | | |
| **Lab Sample ID:** | MC46487-6 | **Date Sampled:** | 06/20/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94444.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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 | 80% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 87% | | 70-130% |

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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-23S | | |
| **Lab Sample ID:** | MC46487-6 | **Date Sampled:** | 06/20/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14755.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 980 ml | 2.0 ml |
| Run #2 | | |

**Extractable TPHC Ranges**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 34.3 | 100 | 29 | ug/l | JB |
| | C9-C18 Aliphatics | 20.8 | 100 | 17 | ug/l | JB |
| | C19-C36 Aliphatics | 29.5 | 100 | 28 | ug/l | JB |
| | C11-C22 Aromatics | 33.8 | 100 | 29 | ug/l | JB |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 62% | | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 76% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 69% | | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 83% | | 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-21S | | |
| **Lab Sample ID:** | MC46487-7 | **Date Sampled:** | 06/20/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | AB94445.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| 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 | 77% | | 70-130% |
| | 2,3,4-Trifluorotoluene | 88% | | 70-130% |

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

SGS Accutest

# Report of Analysis





| | | | |
|---|---|---|---|
| **Client Sample ID:** | MW-21S | | |
| **Lab Sample ID:** | MC46487-7 | **Date Sampled:** | 06/20/16 |
| **Matrix:** | AQ - Ground Water | **Date Received:** | 06/21/16 |
| **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 | DE14756.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| Run #2 | | | | | | | |

| | Initial Volume | Final Volume |
|---|---|---|
| Run #1 | 960 ml | 2.0 ml |
| Run #2 | | |

**Extractable TPHC Ranges**

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 33.3 | 100 | 30 | ug/l | JB |
| | C9-C18 Aliphatics | 22.4 | 100 | 17 | ug/l | JB |
| | C19-C36 Aliphatics | 40.0 | 100 | 28 | ug/l | JB |
| | C11-C22 Aromatics | 32.8 | 100 | 30 | ug/l | JB |

| CAS No. | Surrogate Recoveries | Run# 1 | Run# 2 | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 66% | | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 80% | | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 67% | | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 87% | | 40-140% |

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

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

# Misc. Forms

## Custody Documents and Other Forms

Includes the following where applicable:

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

SGS ACCUTEST - NE

# CHAIN OF CUSTODY

SGS Accutest ~~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

PAGE 1 OF 1

SGS Accutest Quote # 80996056221B

Bottle Order Control # MC46487

SGS Accutest Job # Get from NJ

| Client / Reporting Information | Project Information |
|---|---|
| Company Name: Anderson Mulholland Assoc. Inc. | Project Name: BMS 2Q2016 Groundwater |
| Street Address: 2700 Westchester | Street: |
| City: Purchase State: NY Zip: | City: Humacao State: PR |
| Project Contact: Terry Taylor E-mail: | Project #: |
| Phone #: 914-251-0400 Fax #: | Client Purchase Order #: |
| Sampler(s) Name(s): Nestor Rivera Phone #: | Project Manager: |

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

Requested Analysis ( see TEST CODE sheet): VMA VPH; BMAEPHR

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

| SGS Accutest Sample # | Field ID / Point of Collection | MEOH/DI Vial # | Collection Date | Collection Time | Sampled by | Matrix | # of bottles | HCl | NaOH | HNO3 | H2SO4 | NONE | DI Water | MEOH | ENCORE | VMA VPH | BMAEPHR | LAB USE ONLY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| -1 | MW-3 | | 6/16/16 | 1545 | NR | GW | 5 | 5 | | | | | | | | X | X | |
| -2 | MW-5 | | 6/17/16 | 1110 | NR | GW | 5 | 5 | | | | | | | | X | X | |
| -3 | MW-13 | | 6/17/16 | 1243 | NR | GW | 4 | 4 | | | | | | | | X | X | |
| -4 | BR-4 | | 6/17/16 | 1505 | NR | GW | 5 | 5 | | | | | | | | X | X | |
| -5 | MW-16 | | 6/17/16 | 1602 | NR | GW | 5 | 5 | | | | | | | | X | X | |
| ~~-6~~ | MW-9 | | 6/17/16 | 1834 | NR | GW | 0 | | | | | | | | | | | |
| -6 | MW-23S | | 6/20/16 | 1235 | NR | GW | 5 | 5 | | | | | | | | X | X | |
| -7 | MW-21S | | 6/20/16 | 1547 | NR | GW | 5 | 5 | | | | | | | | X | X | |

INITIAL ASESSMENT: BG
LABEL VERIFICATION:

Turnaround Time ( Business days)
- [x] Std. 10 Business Days
- [ ] 5 Day RUSH
- [ ] 3 Day RUSH
- [ ] 2 Day RUSH
- [ ] 1 Day RUSH
- [ ] other

Approved By (SGS Accutest PM): / Date:

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: loc. 19D, 554

Emergency & Rush T/A data available VIA Lablink

Sample inventory is verified upon receipt in the Laboratory

Sample Custody must be documented below each time samples change possession, including courier delivery. 14:45

| Relinquished by Sampler: | Date Time: | Received By: | Relinquished By: | Date Time: | Received By: |
|---|---|---|---|---|---|
| 1 | 6/20/16 1500 | 1 Fed EX | 2 | 6/20/16 | 2 |
| Relinquished by Sampler: 3 | Date Time: | Received By: 3 | Relinquished By: 4 | Date Time: | Received By: 4 |
| Relinquished by: 5 | Date Time: | Received By: 5 | Custody Seal # 12,448 | Intact / Not intact | Preserved where applicable / On Ice / Cooler Temp. 5.0, 3.5 |

MC46487: Chain of Custody
Page 1 of 3

# SGS Accutest Sample Receipt Summary

**Job Number:** MC46487 **Client:** ANDERSON MULLHOLAND **Project:** HUMACAO PR

**Date / Time Received:** 6/21/2016 9:45:00 AM **Delivery Method:** FEDEX **Airbill #'s:** 809960562218

**Cooler Temps (Initial/Adjusted):** #1: (3.5/3.5); #2: (5/5);

| 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: | MP004 |
| 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: | Broken / Leaking |

| 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

-3 950ML (HCL) Recd. Broken , no volume for EPH remains

-3,-5,-7 two vials of each has small bubble < 6MM

-1 , -4 one vial of each has small bubble < 6MM

## Sample Receipt Summary - Problem Resolution

**Job Number:** MC46487

**CSR:** Rob Soll **Response Date** 6/21/2016

**Response:** Client notified that 950ml volume for BMAEPHR was received broken and no volume remains.
See email in file.

# Internal Sample Tracking Chronicle

Anderson Mulholland and Assoc.

**Job No:** MC46487

BMSMC, Building 5 Area, Puerto Rico
Project No: 2Q 2016 Groundwater Sampling



| Sample Number | Method | Analyzed | By | Prepped | By | Test Codes |
|---|---|---|---|---|---|---|
| MC46487-1 | Collected: 16-JUN-16 15:45 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-3 | | | | | | |
| MC46487-1 | MADEP VPH REV 1.1 | 22-JUN-16 17:33 | AF | | | VMAVPHR |
| MC46487-1 | MADEP EPH REV 1.1 | 28-JUN-16 18:04 | TA | 21-JUN-16 | AJ | BMAEPHR |
| MC46487-2 | Collected: 17-JUN-16 11:10 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-5 | | | | | | |
| MC46487-2 | MADEP VPH REV 1.1 | 22-JUN-16 18:11 | AF | | | VMAVPHR |
| MC46487-2 | MADEP EPH REV 1.1 | 28-JUN-16 18:32 | TA | 21-JUN-16 | AJ | BMAEPHR |
| MC46487-3 | Collected: 17-JUN-16 12:43 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-13 | | | | | | |
| MC46487-3 | MADEP VPH REV 1.1 | 22-JUN-16 18:49 | AF | | | VMAVPHR |
| MC46487-4 | Collected: 17-JUN-16 15:05 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| BR-4 | | | | | | |
| MC46487-4 | MADEP VPH REV 1.1 | 22-JUN-16 19:27 | AF | | | VMAVPHR |
| MC46487-4 | MADEP EPH REV 1.1 | 28-JUN-16 18:59 | TA | 21-JUN-16 | AJ | BMAEPHR |
| MC46487-5 | Collected: 17-JUN-16 16:02 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-16 | | | | | | |
| MC46487-5 | MADEP VPH REV 1.1 | 22-JUN-16 20:04 | AF | | | VMAVPHR |
| MC46487-5 | MADEP EPH REV 1.1 | 28-JUN-16 19:27 | TA | 21-JUN-16 | AJ | BMAEPHR |
| MC46487-6 | Collected: 20-JUN-16 12:35 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-23S | | | | | | |
| MC46487-6 | MADEP VPH REV 1.1 | 22-JUN-16 20:43 | AF | | | VMAVPHR |
| MC46487-6 | MADEP EPH REV 1.1 | 28-JUN-16 19:55 | TA | 21-JUN-16 | AJ | BMAEPHR |
| MC46487-7 | Collected: 20-JUN-16 15:47 By: NR | | Received: 21-JUN-16 By: SAP | | | |
| MW-21S | | | | | | |
| MC46487-7 | MADEP VPH REV 1.1 | 22-JUN-16 21:21 | AF | | | VMAVPHR |
| MC46487-7 | MADEP EPH REV 1.1 | 28-JUN-16 20:23 | TA | 21-JUN-16 | AJ | BMAEPHR |

# SGS Accutest Internal Chain of Custody



**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico
**Received:** 06/21/16

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| MC46487-1.1 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-1.1 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-1.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-1.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-1.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-1.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-2.1 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-2.1 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-2.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-2.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-2.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-2.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-3.1 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-3.1 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-3.1 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-3.1 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-4.2 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-4.2 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-4.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-4.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-4.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-4.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-5.1 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 18:00 | Retrieve from Storage |
| MC46487-5.1 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-5.2 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-5.2 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-5.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-5.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-5.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-5.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-6.1 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-6.1 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-6.2 | Walk In Ref #22 | Ilir Capi | 06/22/16 14:36 | Retrieve from Storage |

# SGS Accutest Internal Chain of Custody



**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico
**Received:** 06/21/16

| Sample.Bottle Number | Transfer FROM | Transfer TO | Date/Time | Reason |
|---|---|---|---|---|
| MC46487-6.2 | Ilir Capi | Walk In Ref #22 | 06/22/16 22:36 | Return to Storage |
| MC46487-6.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-6.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-6.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-6.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | Return to Storage |
| MC46487-7.2 | Walk In Ref #22 | Kostika Vangjeli | 06/21/16 16:09 | Retrieve from Storage |
| MC46487-7.2 | Kostika Vangjeli | Walk In Ref #22 | 06/27/16 14:31 | Return to Storage |
| MC46487-7.4 | VOC Ref #5 | Anthony Franciosa | 06/22/16 07:36 | Retrieve from Storage |
| MC46487-7.4 | Anthony Franciosa | GCAB | 06/22/16 07:36 | Load on Instrument |
| MC46487-7.4 | GCAB | Anthony Franciosa | 06/23/16 08:33 | Unload from Instrument |
| MC46487-7.4 | Anthony Franciosa | VOC Ref #5 | 06/23/16 08:33 | 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:** MC46487
**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 |
|---|---|---|---|---|---|---|---|
| GAB5203-MB | AB94426.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |

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

MC46487-1, MC46487-2, MC46487-3, MC46487-4, MC46487-5, MC46487-6, MC46487-7

| 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 | 77% | 70-130% |
| | 2,3,4-Trifluorotoluene | 87% | 70-130% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC46487
**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 |
|---|---|---|---|---|---|---|---|
| GAB5203-BSP | AB94427.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| GAB5203-BSD | AB94428.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |

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

MC46487-1, MC46487-2, MC46487-3, MC46487-4, MC46487-5, MC46487-6, MC46487-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| | C5- C8 Aliphatics (Unadj.) | 150 | 140 | 93 | 141 | 94 | 1 | 70-130/25 |
| | C9- C12 Aliphatics (Unadj.) | 150 | 133 | 89 | 136 | 91 | 2 | 70-130/25 |
| | C9- C10 Aromatics (Unadj.) | 50 | 43.2 | 86 | 41.8 | 84 | 3 | 70-130/25 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 92% | 82% | 70-130% |
| | 2,3,4-Trifluorotoluene | 103% | 92% | 70-130% |

* = Outside of Control Limits.

# Matrix Spike/Matrix Spike Duplicate Summary



**Job Number:** MC46487
**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 |
|---|---|---|---|---|---|---|---|
| MC46489-2MS | AB94430.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| MC46489-2MSD | AB94431.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |
| MC46489-2 | AB94429.D | 1 | 06/22/16 | AF | n/a | n/a | GAB5203 |

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

MC46487-1, MC46487-2, MC46487-3, MC46487-4, MC46487-5, MC46487-6, MC46487-7

| CAS No. | Compound | MC46489-2 ug/l | Q | Spike ug/l | MS ug/l | MS % | Spike ug/l | MSD ug/l | MSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | C5- C8 Aliphatics (Unadj.) | 102 | | 300 | 417 | 105 | 300 | 438 | 112 | 5 | 70-130/25 |
| | C9- C12 Aliphatics (Unadj.) | ND | | 450 | 433 | 108 | 450 | 438 | 109 | 1 | 70-130/25 |
| | C9- C10 Aromatics (Unadj.) | ND | | 150 | 125 | 83 | 150 | 124 | 83 | 1 | 70-130/25 |

| CAS No. | Surrogate Recoveries | MS | MSD | MC46489-2 | Limits |
|---|---|---|---|---|---|
| | 2,3,4-Trifluorotoluene | 84% | 83% | 78% | 70-130% |
| | 2,3,4-Trifluorotoluene | 92% | 93% | 88% | 70-130% |

* = Outside of Control Limits.

# Volatile Surrogate Recovery Summary



**Job Number:** MC46487
**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] |
|---|---|---|---|
| MC46487-1 | AB94439.D | 79 | 88 |
| MC46487-2 | AB94440.D | 83 | 94 |
| MC46487-3 | AB94441.D | 79 | 88 |
| MC46487-4 | AB94442.D | 78 | 87 |
| MC46487-5 | AB94443.D | 78 | 87 |
| MC46487-6 | AB94444.D | 80 | 87 |
| MC46487-7 | AB94445.D | 77 | 88 |
| GAB5203-BSD | AB94428.D | 82 | 92 |
| GAB5203-BSP | AB94427.D | 92 | 103 |
| GAB5203-MB | AB94426.D | 77 | 87 |
| MC46489-2MS | AB94430.D | 84 | 92 |
| MC46489-2MSD | AB94431.D | 83 | 93 |

| 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:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

| | | | |
|---|---|---|---|
| **Check Std:** | GAB5203-CC5058 | **Injection Date:** | 06/22/16 |
| **Lab File ID:** | AB94425.D | **Injection Time:** | 08:00 |
| **Instrument ID:** | GCAB | **Method:** | MADEP VPH REV 1.1 |

| | S1 [a] RT | S1 [b] RT |
|---|---|---|
| Check Std | 20.18 | 20.19 |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | S1 [a] RT | S1 [b] RT |
|---|---|---|---|---|---|
| GAB5203-MB | AB94426.D | 06/22/16 | 08:38 | 20.19 | 20.19 |
| GAB5203-BSP | AB94427.D | 06/22/16 | 09:59 | 20.18 | 20.18 |
| GAB5203-BSD | AB94428.D | 06/22/16 | 10:37 | 20.18 | 20.19 |
| MC46489-2 | AB94429.D | 06/22/16 | 11:14 | 20.19 | 20.19 |
| MC46489-2MS | AB94430.D | 06/22/16 | 11:53 | 20.18 | 20.19 |
| MC46489-2MSD | AB94431.D | 06/22/16 | 12:30 | 20.18 | 20.19 |
| ZZZZZZ | AB94432.D | 06/22/16 | 13:08 | 20.18 | 20.19 |
| ZZZZZZ | AB94433.D | 06/22/16 | 13:46 | 20.18 | 20.18 |
| ZZZZZZ | AB94434.D | 06/22/16 | 14:24 | 20.18 | 20.18 |
| ZZZZZZ | AB94435.D | 06/22/16 | 15:02 | 20.18 | 20.18 |
| ZZZZZZ | AB94436.D | 06/22/16 | 15:40 | 20.18 | 20.19 |
| ZZZZZZ | AB94437.D | 06/22/16 | 16:18 | 20.18 | 20.19 |
| ZZZZZZ | AB94438.D | 06/22/16 | 16:55 | 20.18 | 20.19 |
| MC46487-1 | AB94439.D | 06/22/16 | 17:33 | 20.19 | 20.19 |
| MC46487-2 | AB94440.D | 06/22/16 | 18:11 | 20.18 | 20.19 |
| MC46487-3 | AB94441.D | 06/22/16 | 18:49 | 20.18 | 20.19 |
| MC46487-4 | AB94442.D | 06/22/16 | 19:27 | 20.19 | 20.19 |
| MC46487-5 | AB94443.D | 06/22/16 | 20:04 | 20.19 | 20.19 |
| MC46487-6 | AB94444.D | 06/22/16 | 20:43 | 20.19 | 20.19 |
| MC46487-7 | AB94445.D | 06/22/16 | 21:21 | 20.19 | 20.19 |
| ZZZZZZ | AB94446.D | 06/22/16 | 22:00 | 20.19 | 20.19 |
| ZZZZZZ | AB94447.D | 06/22/16 | 22:38 | 20.19 | 20.19 |
| ZZZZZZ | AB94448.D | 06/22/16 | 23:17 | 20.19 | 20.19 |
| ZZZZZZ | AB94449.D | 06/22/16 | 23:56 | 20.19 | 20.19 |

**Surrogate Compounds**

**S1** = 2,3,4-Trifluorotoluene

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

# Initial Calibration Summary



**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GAB5058-ICC5058
**Lab FileID:** AB92588.D

```
                         Response Factor Report  GCAB

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

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

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

Signal #2

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

# Initial Calibration Summary

**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GAB5058-ICC5058
**Lab FileID:** AB92588.D

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

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

# Initial Calibration Verification



**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico
**Sample:** GAB5058-ICV5058
**Lab FileID:** AB92593.D

Evaluate Continuing Calibration Report

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

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

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


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

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

Evaluate Continuing Calibration Report - Not Founds

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

# Initial Calibration Verification

**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GAB5058-ICV5058
**Lab FileID:** AB92593.D

```
  Signal #2

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

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

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

# Continuing Calibration Summary



**Job Number:** MC46487 **Sample:** GAB5203-CC5058
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB94425.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:00:30
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:36:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1 | h | rt5.5-7 | 401.509 | 324.597 E3 | 19.2 | 81 | 0.00 |
| 2 | h | rt7/10 | 401.509 | 378.246 E3 | 5.8 | 94 | 0.00 |
| 3 | h | rt10/13 | 401.509 | 425.111 E3 | -5.9 | 106 | 0.00 |
| 4 | s | fluorobenzene | 440.139 | 429.165 E3 | 2.5 | 97 | -0.02 |
| 6 | s | 2,3,4-trifluorotoluene | 409.952 | 379.644 E3 | 7.4 | 93 | -0.02 |
| 8 | h | rt20/25 | 626.504 | 542.199 E3 | 13.5 | 87 | 0.00 |
| 10 | h | decane | 626.504 | 562.741 E3 | 10.2 | 90 | 0.00 |
| 11 | h | butylcyclohexane | 626.504 | 596.849 E3 | 4.7 | 95 | 0.00 |

Signal #2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 14 | | mtbe #2 | 504.452 | 437.613 E3 | 13.2 | 85 | -0.01 |
| 15 | | benzene #2 | 1.302 | 1.106 E6 | 15.1 | 79 | -0.02 |
| 16 | s | fluorobenzene #2 | 842.245 | 726.471 E3 | 13.7 | 81 | -0.02 |
| 17 | | toluene #2 | 1143.283 | 952.446 E3 | 16.7 | 79 | -0.02 |
| 18 | s | 2,3,4-trifluorotoluene #2 | 466.878 | 373.593 E3 | 20.0 | 79 | -0.02 |
| 19 | | ethylbenzene #2 | 925.851 | 784.049 E3 | 15.3 | 79 | -0.02 |
| 20 | | m,p-xylene #2 | 1060.718 | 951.257 E3 | 10.3 | 79 | -0.02 |
| 21 | | o-xylene #2 | 934.140 | 784.359 E3 | 16.0 | 77 | -0.02 |
| 22 | t | 1,3,5-trimethylbenzene #2 | 1306.512 | 1027.501 E3 | 21.4 | 70# | -0.01 |
| 23 | | 1,2,4-trimethylbenzene #2 | 957.036 | 787.055 E3 | 17.8 | 75 | -0.01 |
| 24 | | naphthalene #2 | 722.911 | 645.294 E3 | 10.7 | 86 | 0.00 |
| 25 | h | c9-c10 arom as 1,2,4-tmb | 958.045 | 785.115 E3 | 18.1 | 75# | 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:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GAB5203-CC5058
**Lab FileID:** AB94425.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

ab160622vph.M Thu Jun 23 13:42:11 2016
```

# Continuing Calibration Summary



**Job Number:** MC46487 **Sample:** GAB5203-CC5058
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** AB94450.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 23-Jun-16, 00:34:25
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:18:03 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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


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

| | | Compound | AvgRF | CCRF | %Dev | Area% | Dev(Min) |
|---|---|---|---|---|---|---|---|
| 1 | h | rt5.5-7 | 401.509 | 317.282 E3 | 21.0 | 79 | 0.00 |
| 2 | h | rt7/10 | 401.509 | 373.976 E3 | 6.9 | 93 | 0.00 |
| 3 | h | rt10/13 | 401.509 | 431.994 E3 | -7.6 | 108 | 0.00 |
| 4 | s | fluorobenzene | 440.139 | 418.803 E3 | 4.8 | 95 | -0.02 |
| 6 | s | 2,3,4-trifluorotoluene | 409.952 | 370.804 E3 | 9.5 | 91 | -0.02 |
| 8 | h | rt20/25 | 626.504 | 530.378 E3 | 15.3 | 85 | 0.00 |
| 10 | h | decane | 626.504 | 546.555 E3 | 12.8 | 87 | 0.00 |
| 11 | h | butylcyclohexane | 626.504 | 585.795 E3 | 6.5 | 94 | 0.00 |
| Signal #2 | | | | | | | |
| 14 | | mtbe #2 | 504.452 | 453.717 E3 | 10.1 | 88 | -0.02 |
| 15 | | benzene #2 | 1.302 | 1.113 E6 | 14.5 | 79 | -0.02 |
| 16 | s | fluorobenzene #2 | 842.245 | 722.762 E3 | 14.2 | 81 | -0.02 |
| 17 | | toluene #2 | 1143.283 | 961.280 E3 | 15.9 | 80 | -0.02 |
| 18 | s | 2,3,4-trifluorotoluene #2 | 466.878 | 373.155 E3 | 20.1 | 79 | -0.02 |
| 19 | | ethylbenzene #2 | 925.851 | 788.953 E3 | 14.8 | 79 | -0.02 |
| 20 | | m,p-xylene #2 | 1060.718 | 950.636 E3 | 10.4 | 79 | -0.02 |
| 21 | | o-xylene #2 | 934.140 | 783.920 E3 | 16.1 | 77 | -0.02 |
| 22 | t | 1,3,5-trimethylbenzene #2 | 1306.512 | 1014.292 E3 | 22.4 | 69# | -0.01 |
| 23 | | 1,2,4-trimethylbenzene #2 | 957.036 | 783.590 E3 | 18.1 | 75# | -0.01 |
| 24 | | naphthalene #2 | 722.911 | 637.300 E3 | 11.8 | 85 | -0.01 |
| 25 | h | c9-c10 arom as 1,2,4-tmb | 958.045 | 784.681 E3 | 18.1 | 75# | 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:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GAB5203-CC5058
**Lab FileID:** AB94450.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

ab160622vph.M Thu Jun 23 13:42:13 2016
```

GC Volatiles

Raw Data

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:00:40 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.130 | 19793396 | 44.971 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 89.94% | | |
| 6) s 2,3,4-trifluorotoluene | 20.187 | 18101155 | 44.154 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 88.31% | | |
| 16) s fluorobenzene #2 | 15.129 | 34978598 | 41.530 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 83.06% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.185 | 18364708 | 39.335 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 78.67% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 687796 | 1.713 | ppb | m |
| 2) h rt7/10 | 8.720 | 1089379 | 2.713 | ppb | m |
| 3) h rt10/13 | 13.870 | 11383846 | 28.353 | ppb | |
| 8) h rt20/25 | 21.870 | 214352485 | 342.141 | ppb | |
| 15) benzene #2 | 14.621 | 374850 | 0.288 | ppb | m |
| 19) ethylbenzene #2 | 22.171 | 609174 | 0.658 | ppb | |
| 20) m,p-xylene #2 | 22.326 | 658746 | 0.621 | ppb | |
| 21) o-xylene #2 | 23.141 | 893503 | 0.956 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.079 | 596971 | 0.624 | ppb | m |
| 24) naphthalene #2 | 28.046 | 6214883 | 8.597 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 222427183 | 232.168 | ppb | m |

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



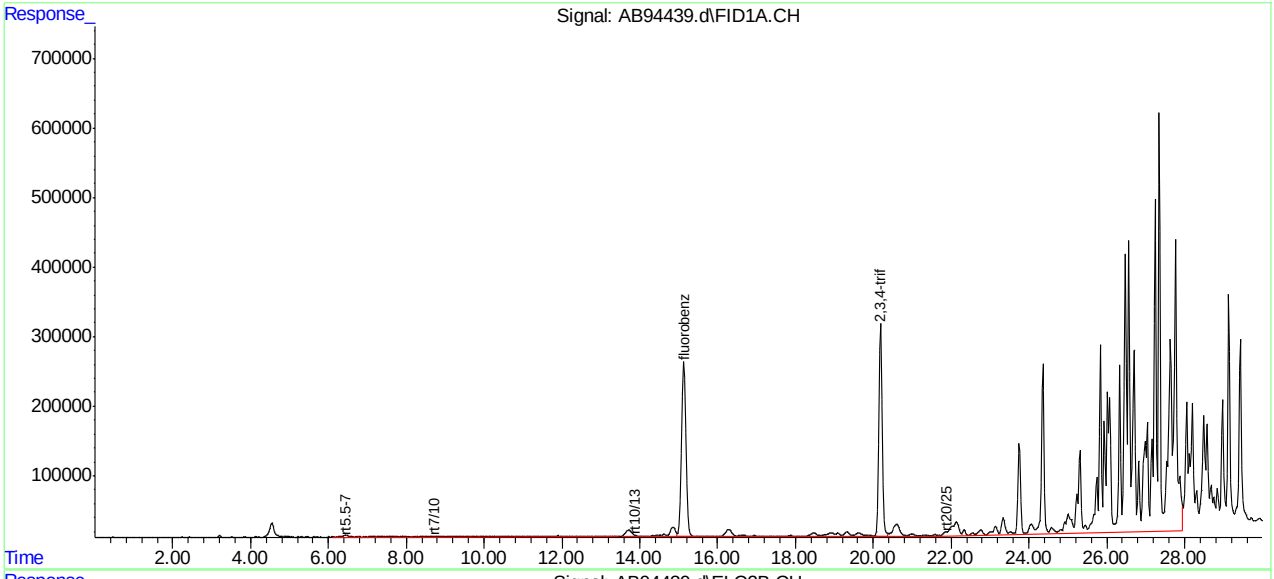
SGS ACCUTEST MC46487

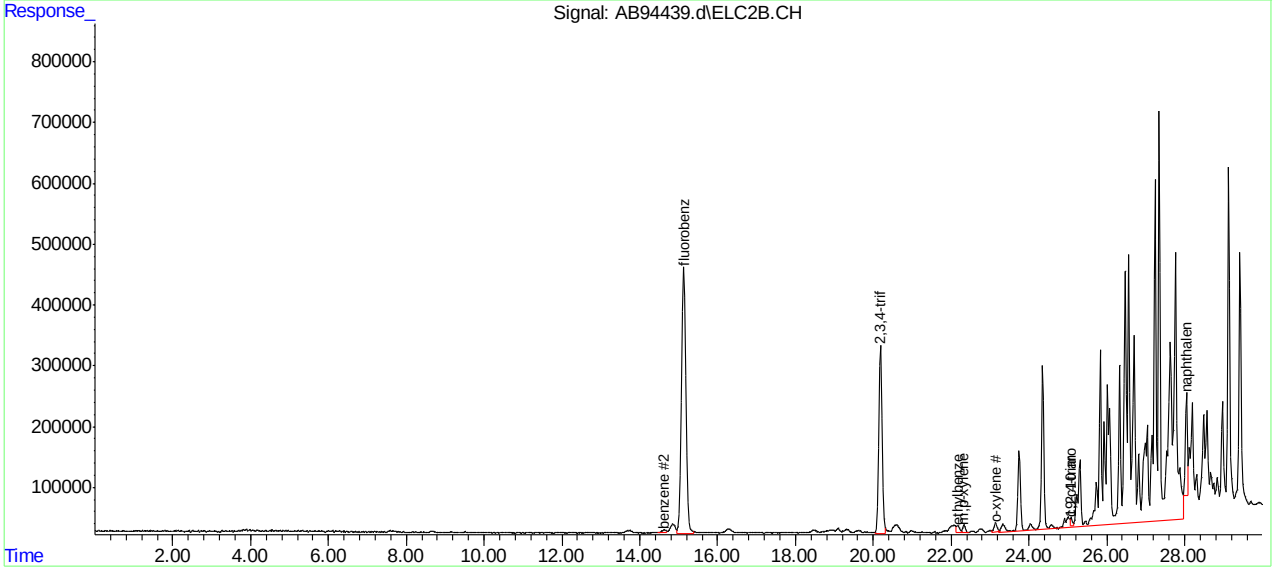
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:00:40 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

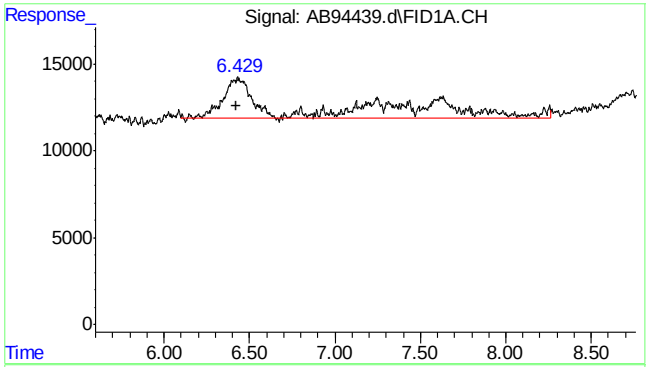
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



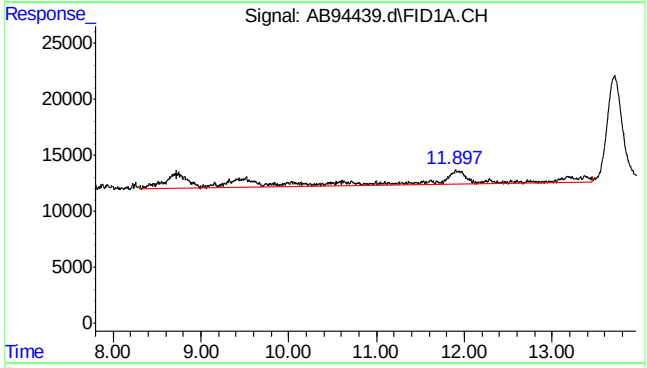



SGS ACCUTEST MC46487



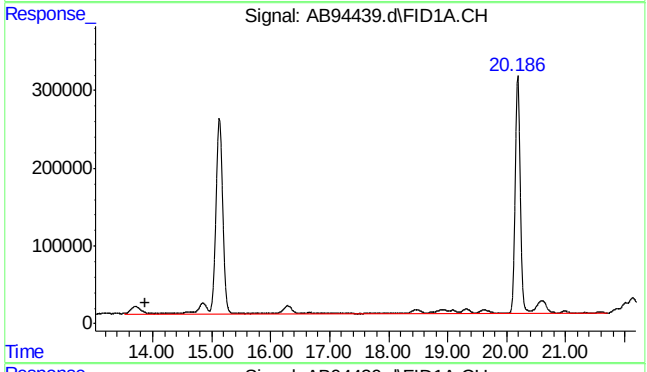

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 687796
Conc: 1.71 ppb m



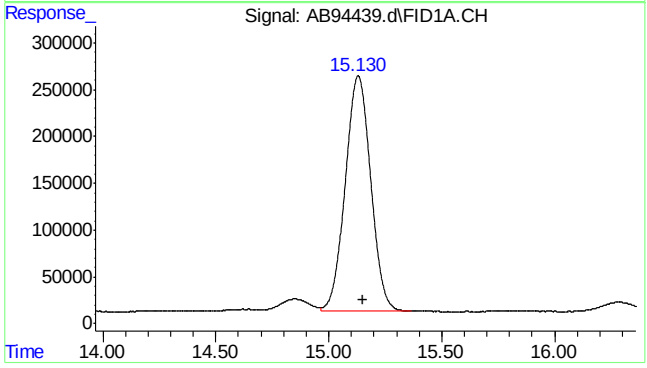

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 1089379
Conc: 2.71 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 11383846
Conc: 28.35 ppb

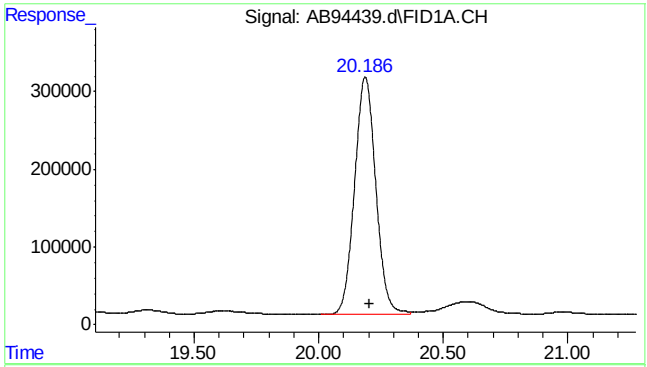



#4 fluorobenzene

R.T.: 15.130 min
Delta R.T.: -0.021 min
Response: 19793396
Conc: 44.97 ppb

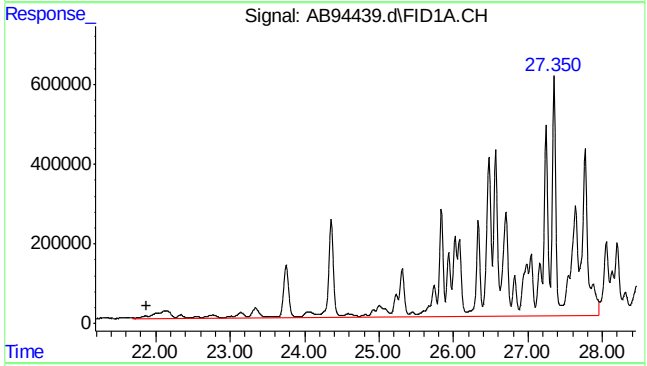


SGS ACCUTEST MC46487



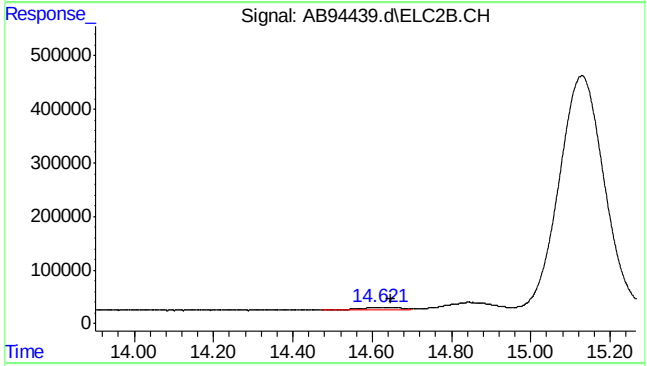

#6 2,3,4-trifluorotoluene

R.T.: 20.187 min
Delta R.T.: -0.019 min
Response: 18101155
Conc: 44.15 ppb



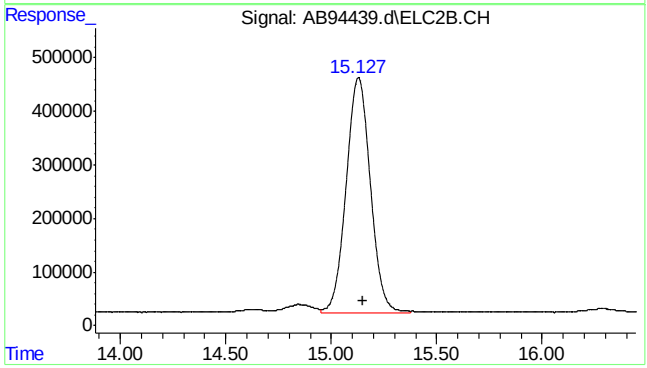

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 214352485
Conc: 342.14 ppb




#15 benzene #2

R.T.: 14.621 min
Delta R.T.: -0.025 min
Response: 374850
Conc: 0.29 ppb m

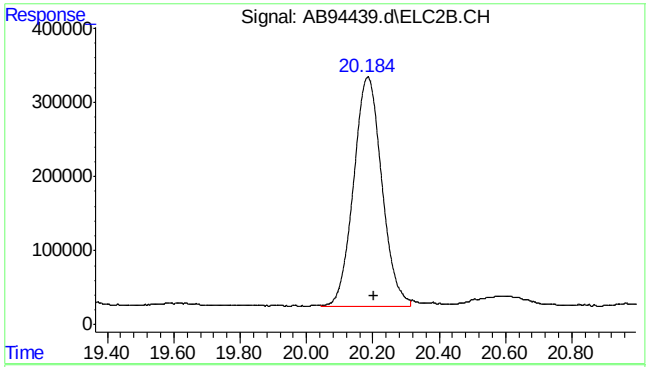



#16 fluorobenzene #2

R.T.: 15.129 min
Delta R.T.: -0.019 min
Response: 34978598
Conc: 41.53 ppb

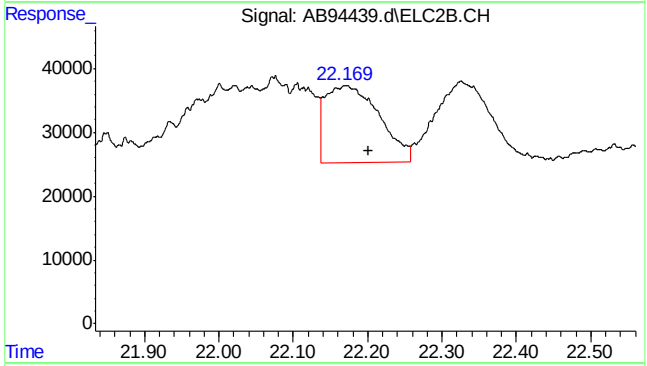


SGS ACCUTEST MC46487



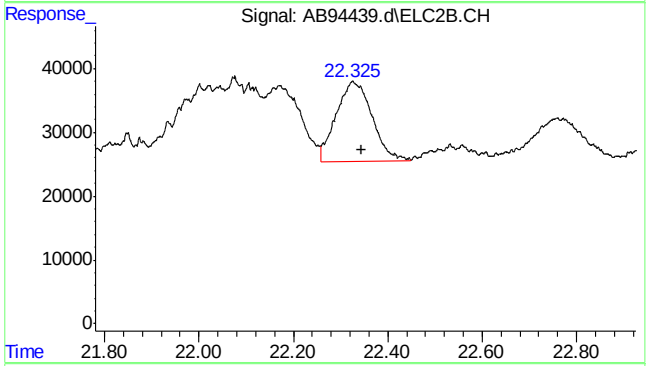

#18 2,3,4-trifluorotoluene #2

R.T.: 20.185 min
Delta R.T.: -0.018 min
Response: 18364708
Conc: 39.34 ppb



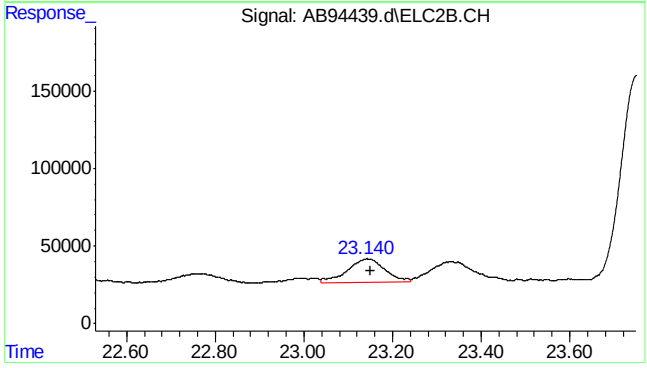

#19 ethylbenzene #2

R.T.: 22.171 min
Delta R.T.: -0.030 min
Response: 609174
Conc: 0.66 ppb




#20 m,p-xylene #2

R.T.: 22.326 min
Delta R.T.: -0.018 min
Response: 658746
Conc: 0.62 ppb

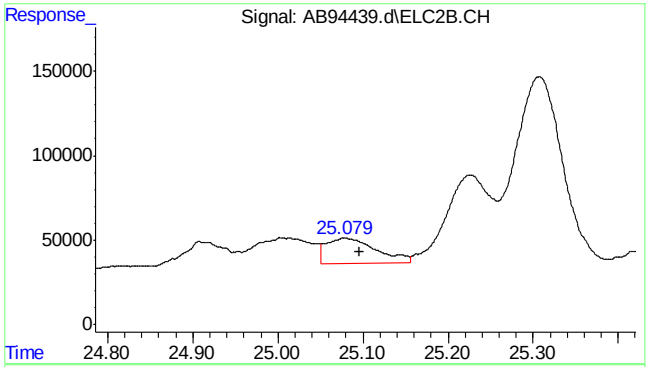



#21 o-xylene #2

R.T.: 23.141 min
Delta R.T.: -0.009 min
Response: 893503
Conc: 0.96 ppb

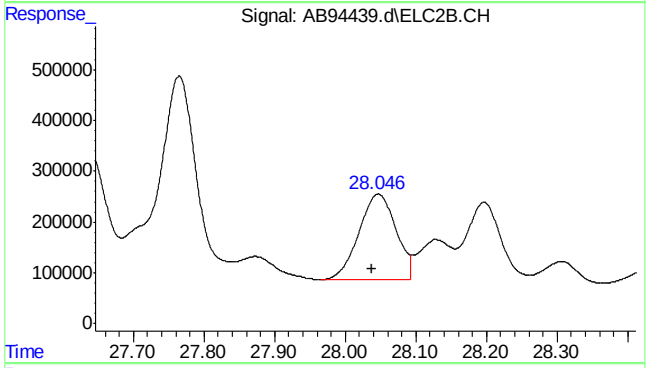


SGS ACCUTEST MC46487



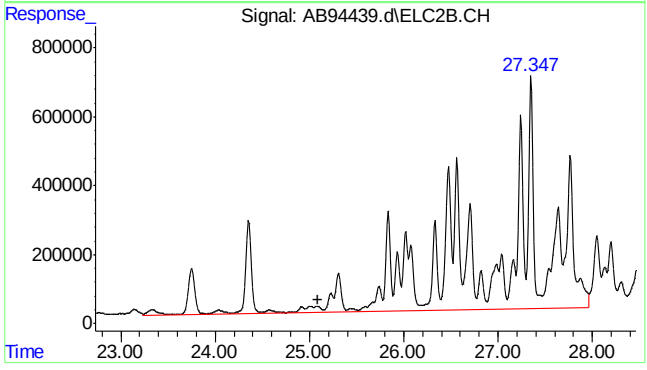

#23 1,2,4-trimethylbenzene #2

R.T.: 25.079 min
Delta R.T.: -0.017 min
Response: 596971
Conc: 0.62 ppb m




#24 naphthalene #2

R.T.: 28.046 min
Delta R.T.: 0.008 min
Response: 6214883
Conc: 8.60 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 222427183
Conc: 232.17 ppb m



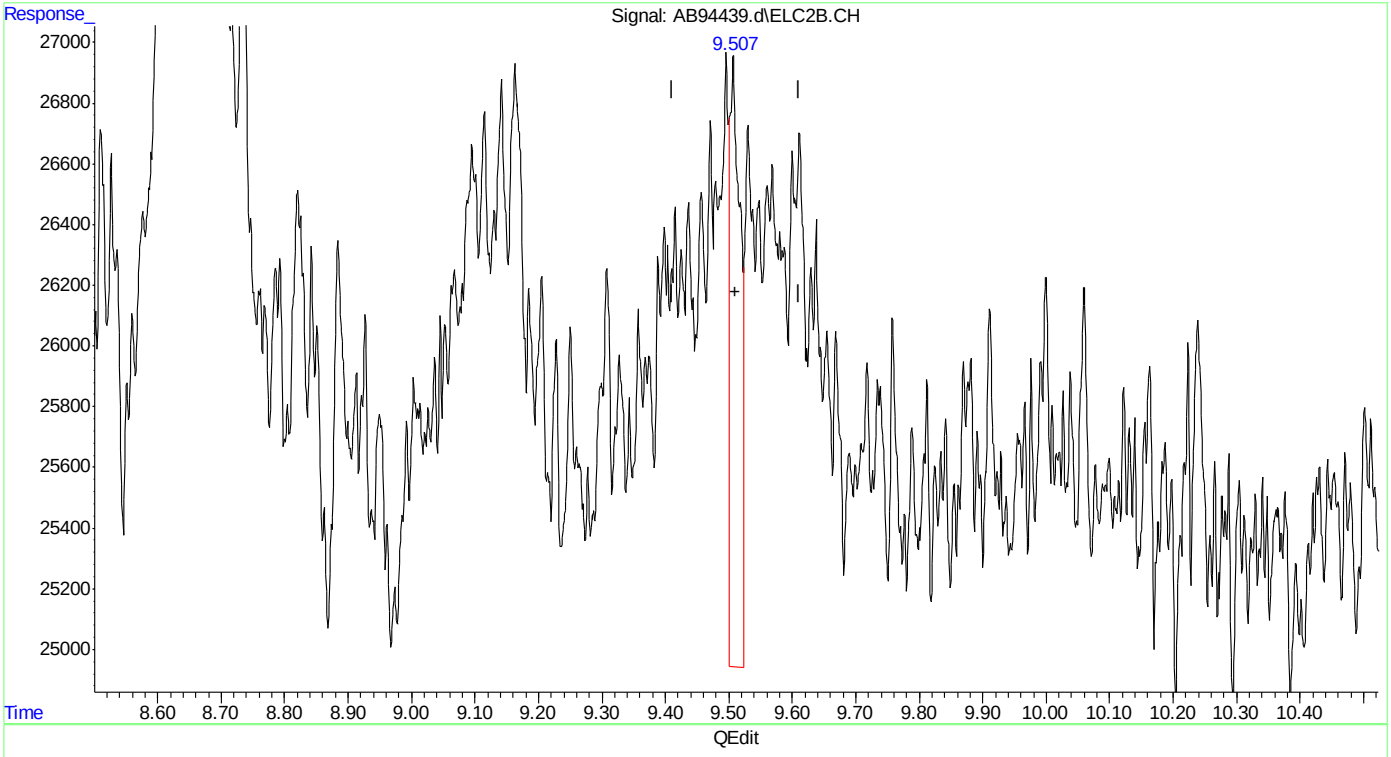
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.507min 0.046 ppb
response 23125

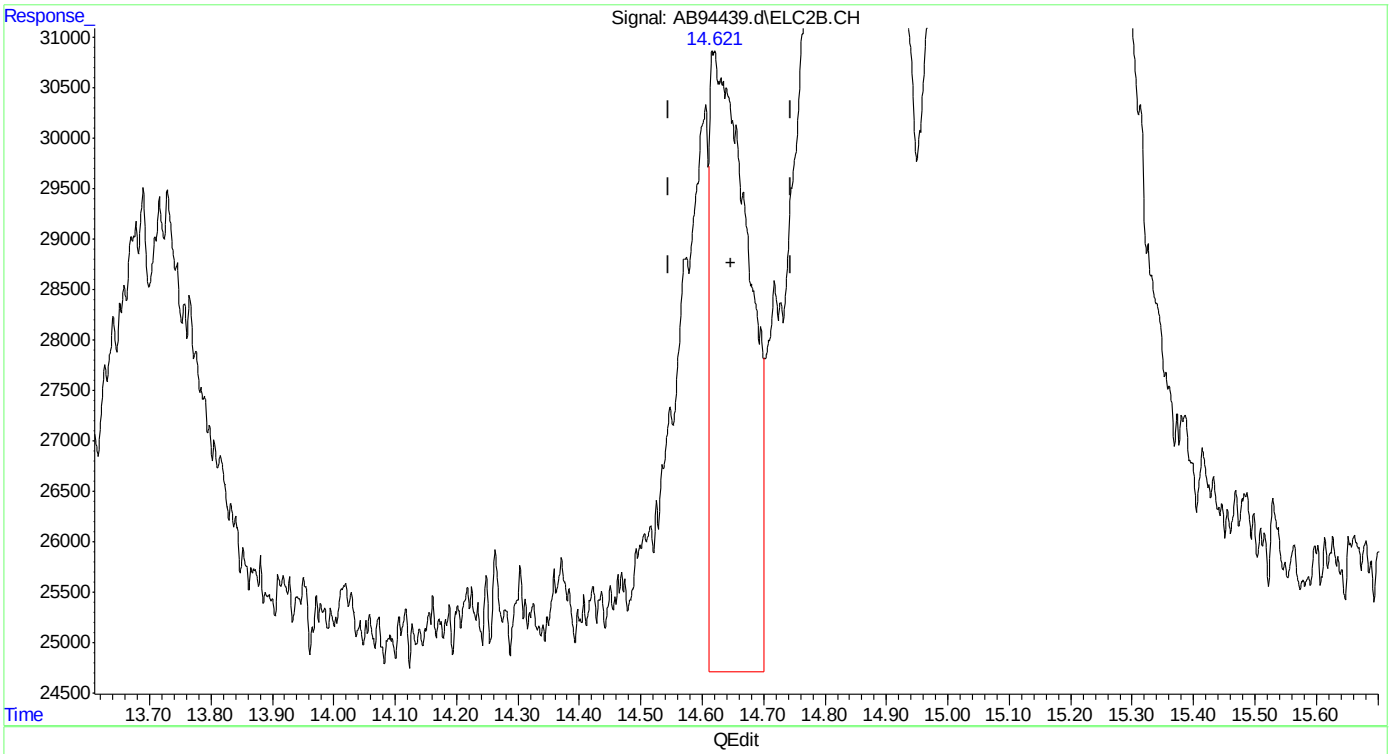
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 12:59:35 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.619min 0.206 ppb
response 268043

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 12:59:42 2016







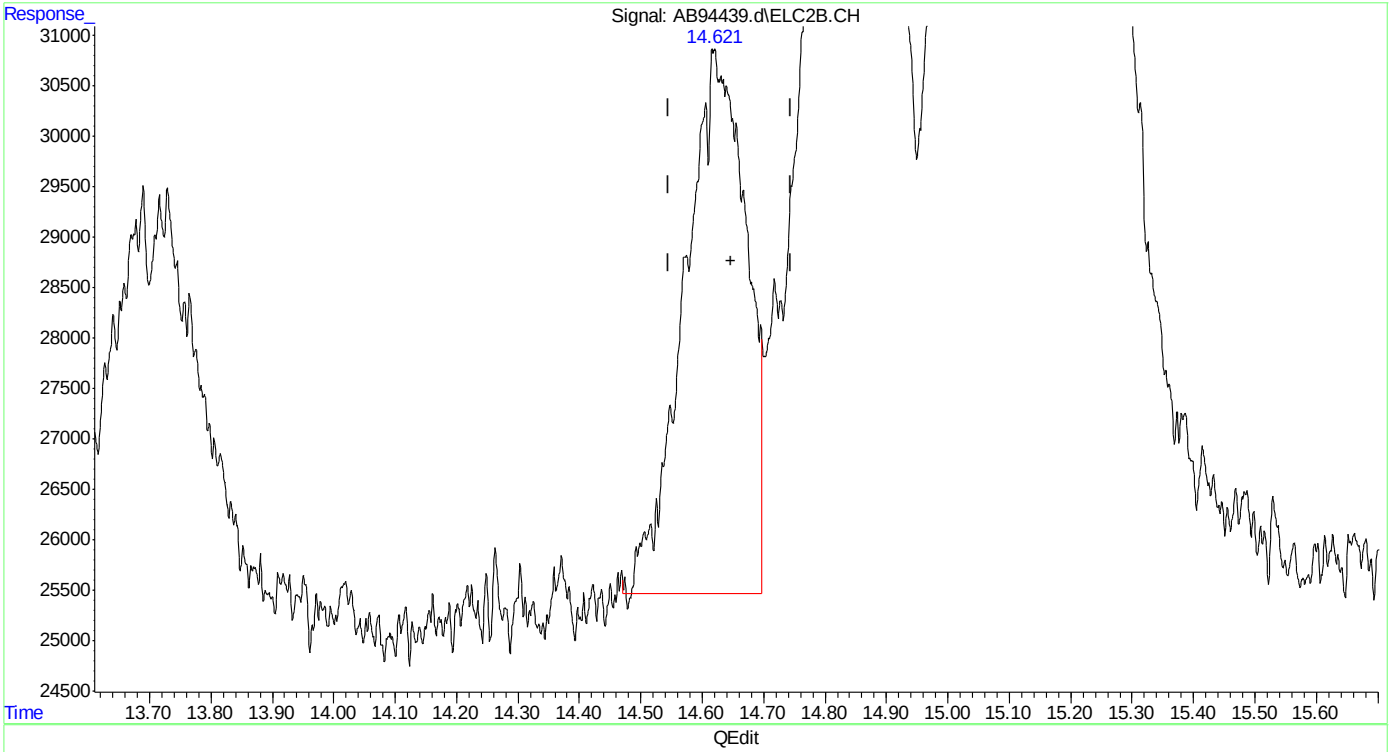
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.621min 0.288 ppb m
response 374850

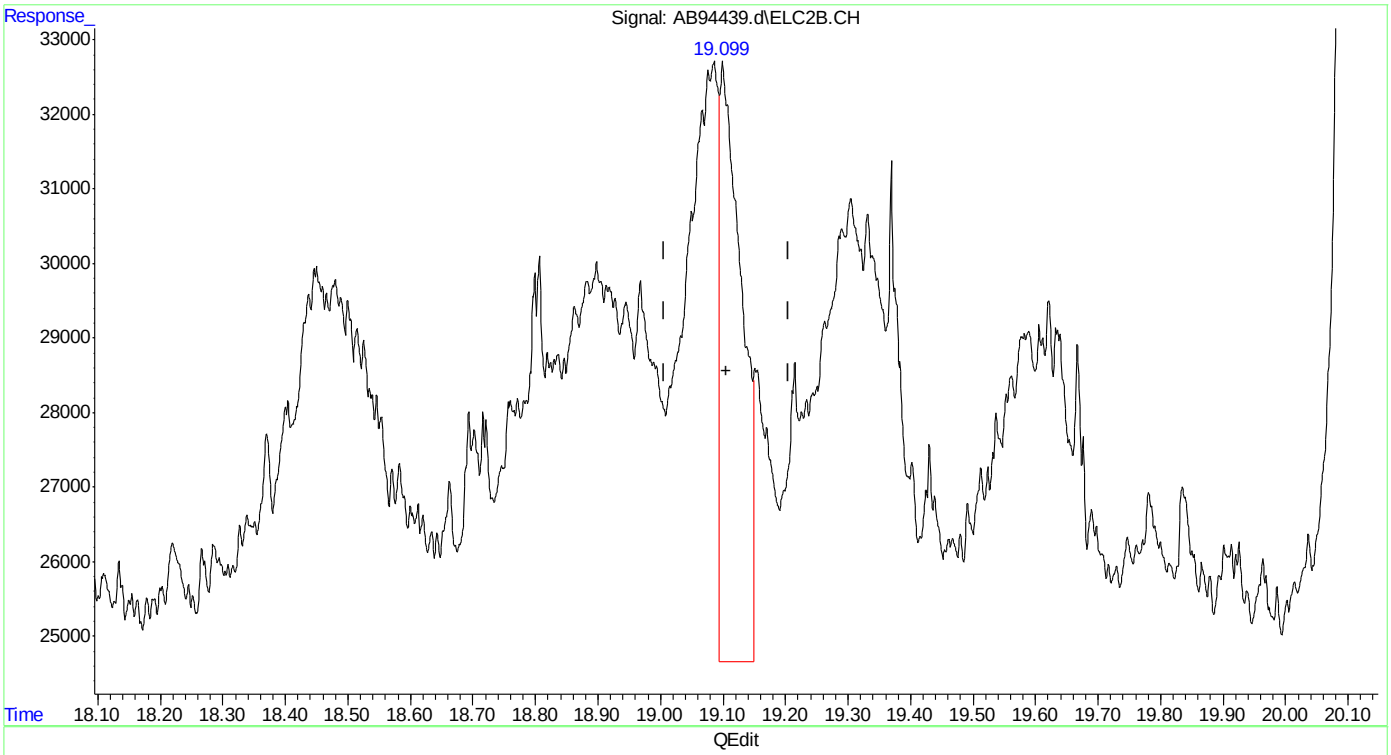
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 12:59:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.100min 0.169 ppb
response 193311

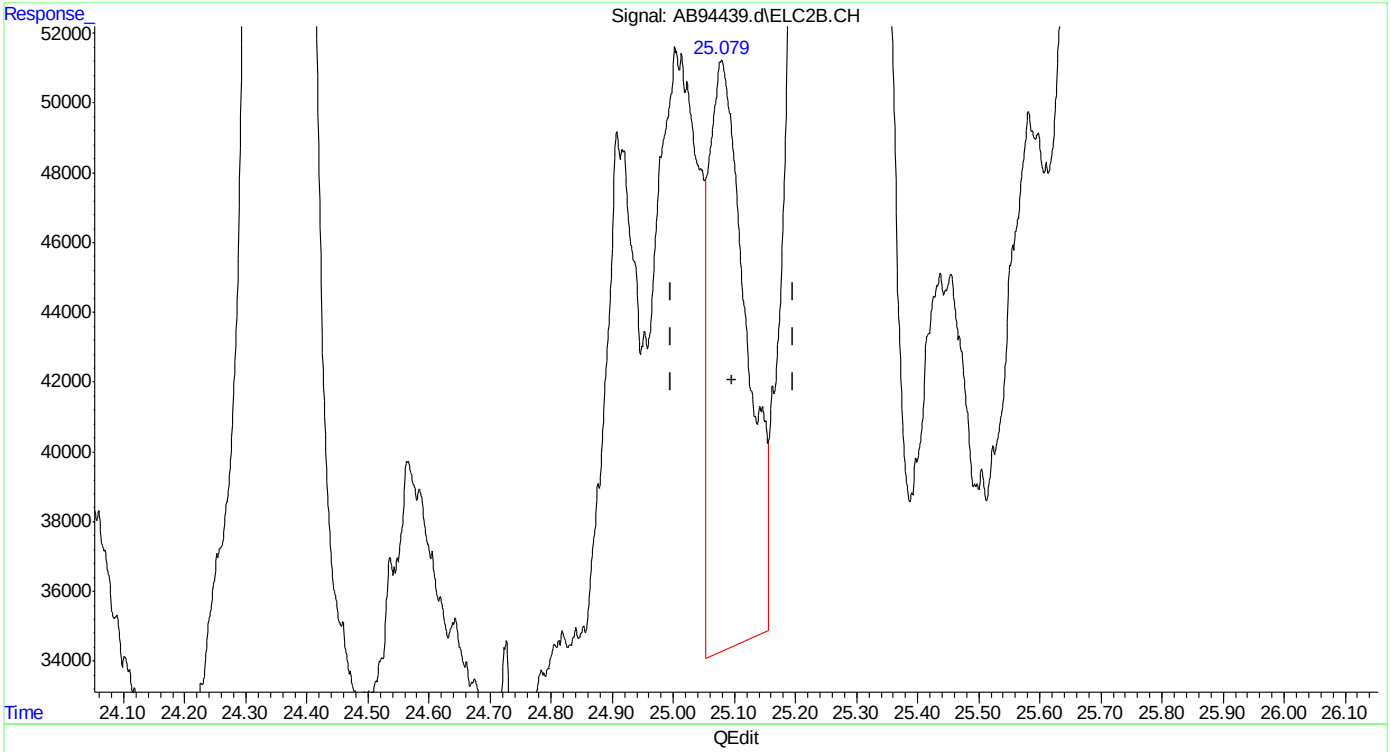
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.079min 0.752 ppb
response 719564

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:00:03 2016







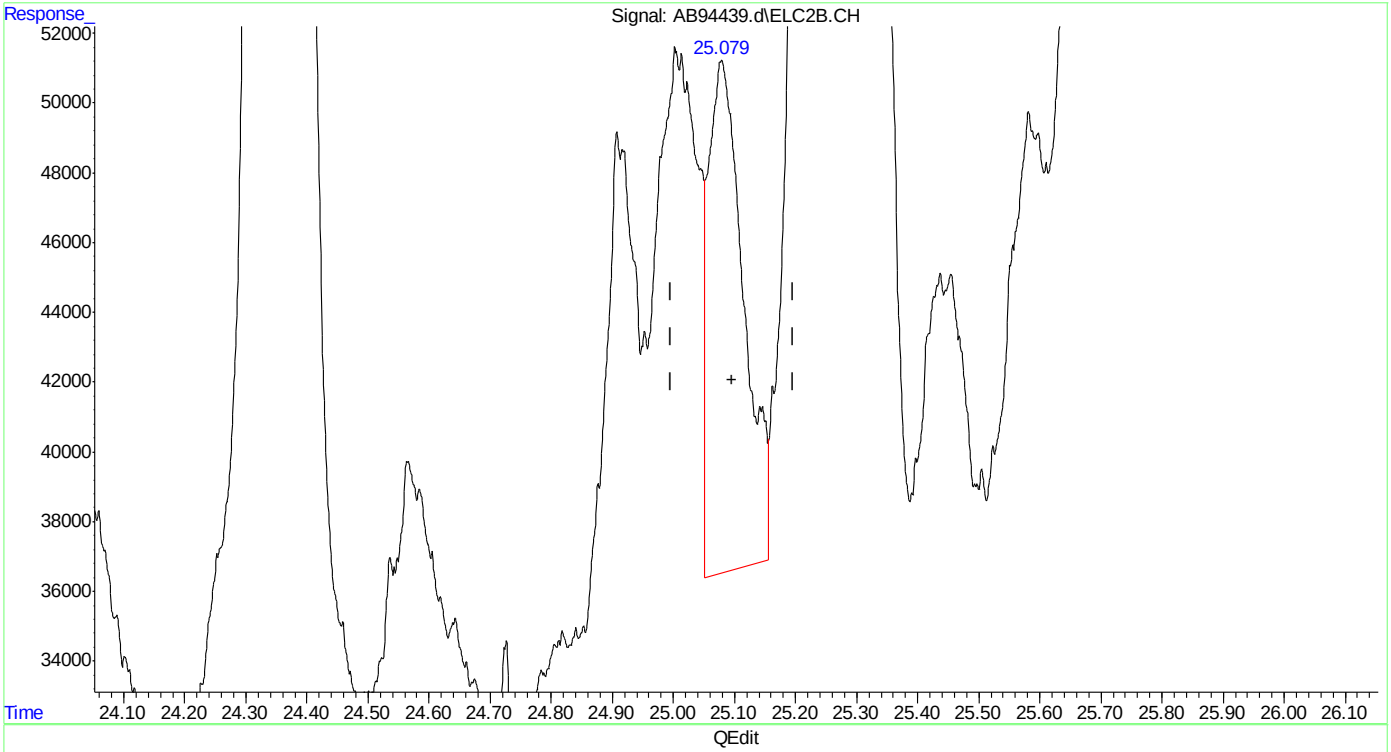
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.079min 0.624 ppb m
response 596971

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:00:18 2016







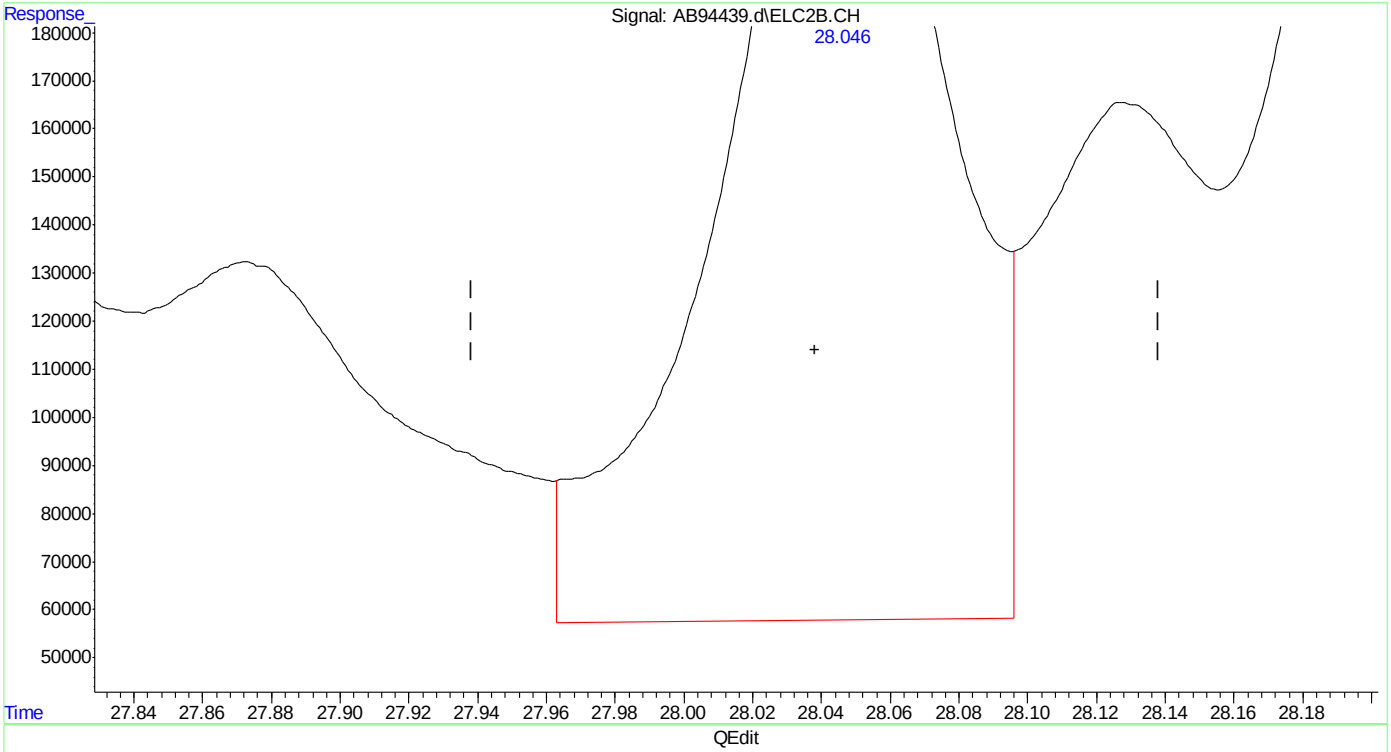
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 17:33:33
Operator : tonyf
Sample : mc46487-1,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 14 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.047min 11.841 ppb
response 8559904

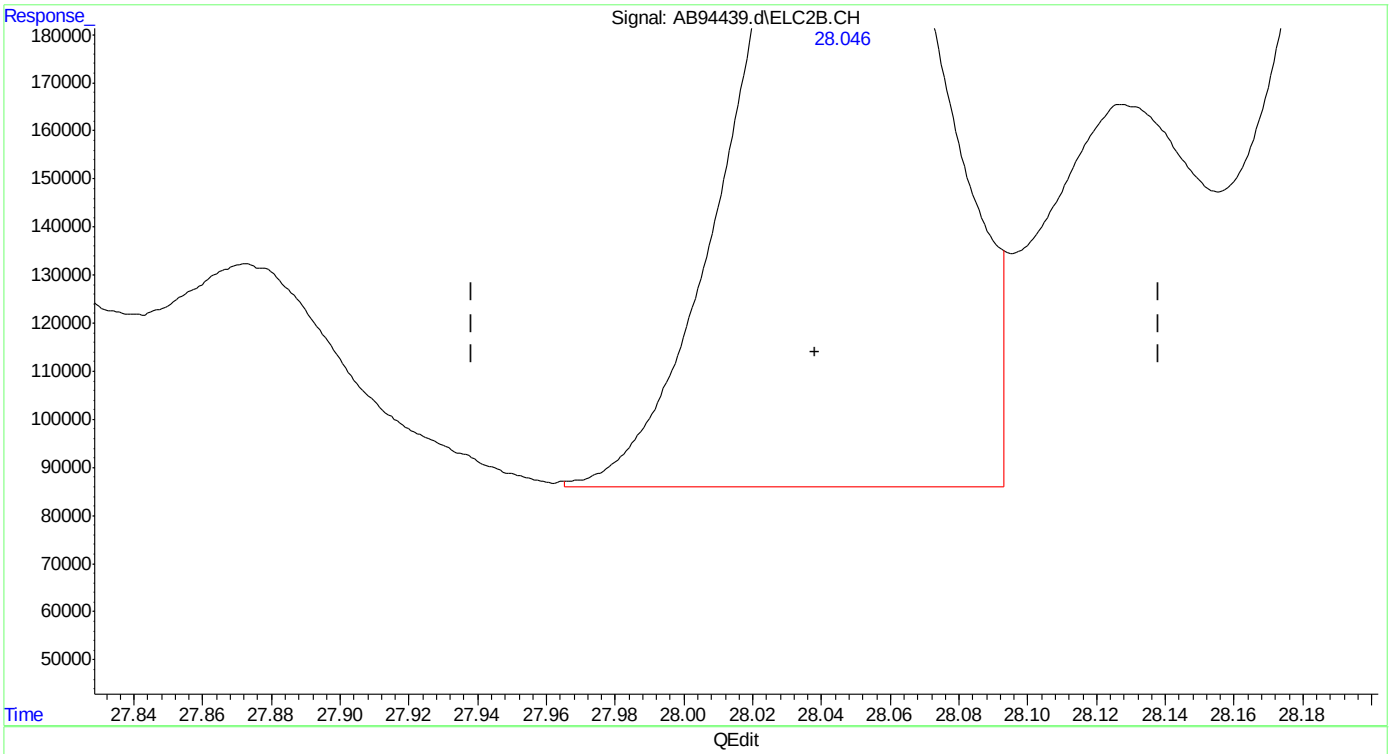
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:00:22 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94439.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 17:33:33
Operator  : tonyf
Sample    : mc46487-1,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 14 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:09 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.046min 8.597 ppb m

response 6214883

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:00:29 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:02:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.129 | 20090306 | 45.645 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 91.29% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 19178906 | 46.783 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 93.57% | | |
| 16) s fluorobenzene #2 | 15.126 | 35576263 | 42.240 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 84.48% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 19354749 | 41.456 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 82.91% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 3826131 | 9.529 | ppb | m |
| 2) h rt7/10 | 8.720 | 2319035 | 5.776 | ppb | m |
| 3) h rt10/13 | 13.870 | 8332456 | 20.753 | ppb | |
| 8) h rt20/25 | 21.870 | 298256841 | 476.066 | ppb | |
| 14) mtbe #2 | 9.495 | 3191469 | 6.327 | ppb | m |
| 15) benzene #2 | 14.623 | 4203625 | 3.229 | ppb | |
| 17) toluene #2 | 19.081 | 643214 | 0.563 | ppb | m |
| 19) ethylbenzene #2 | 22.183 | 71421984 | 77.142 | ppb | |
| 20) m,p-xylene #2 | 22.323 | 274199105 | 258.503 | ppb | |
| 21) o-xylene #2 | 23.136 | 412156 | 0.441 | ppb | m |
| 24) naphthalene #2 | 28.033 | 1452723 | 2.010 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 53020279 | 55.342 | ppb | m |

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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
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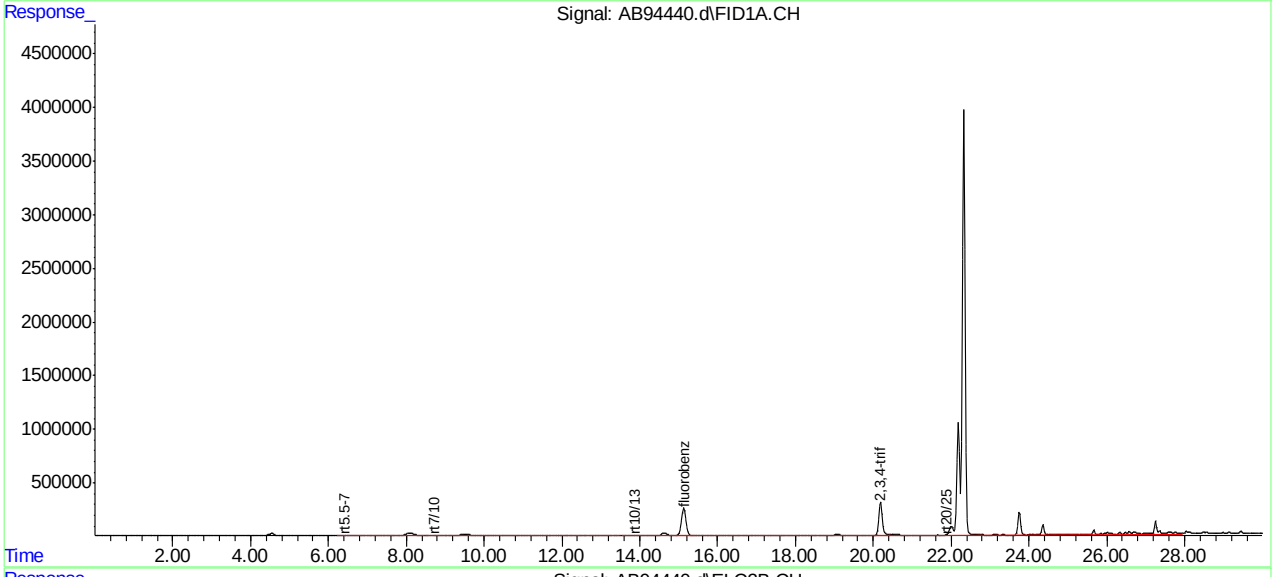
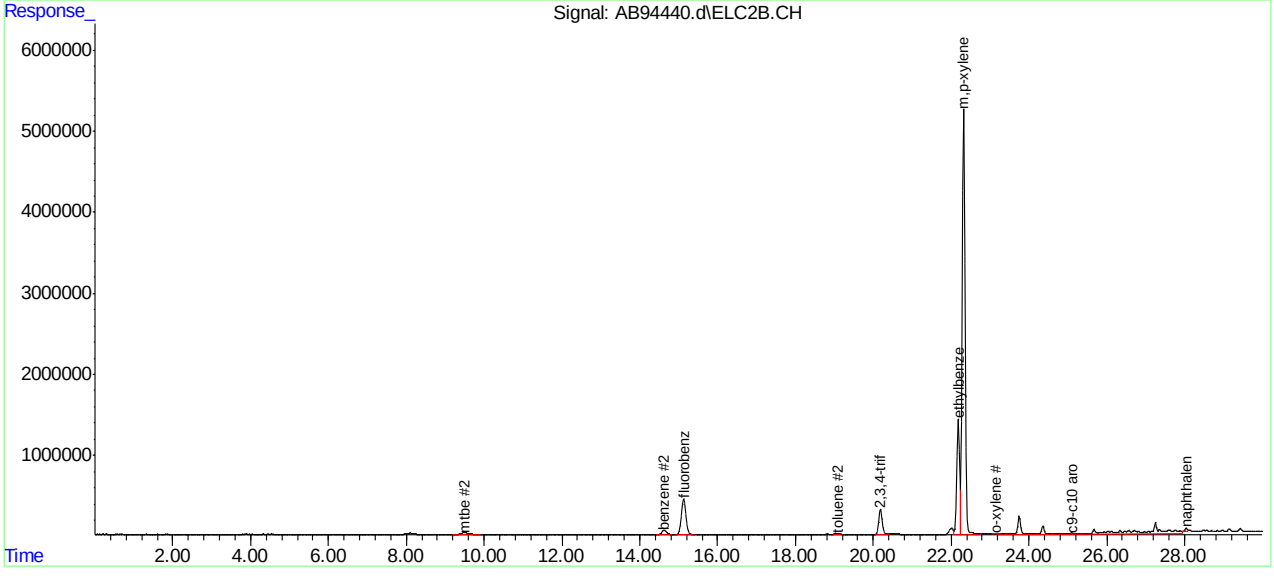
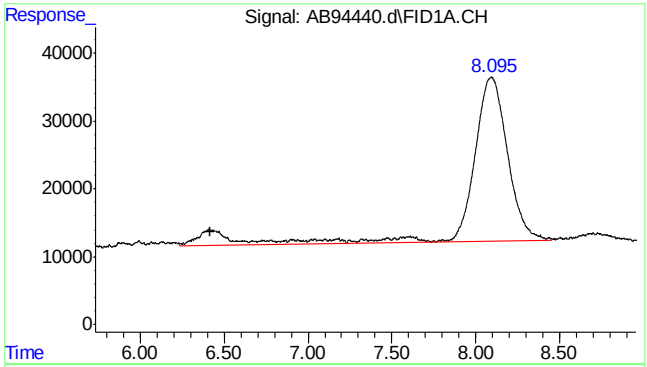
Quant Time: Jun 23 13:02:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

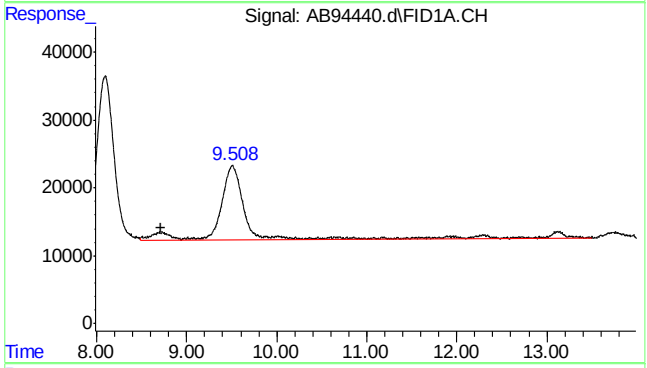




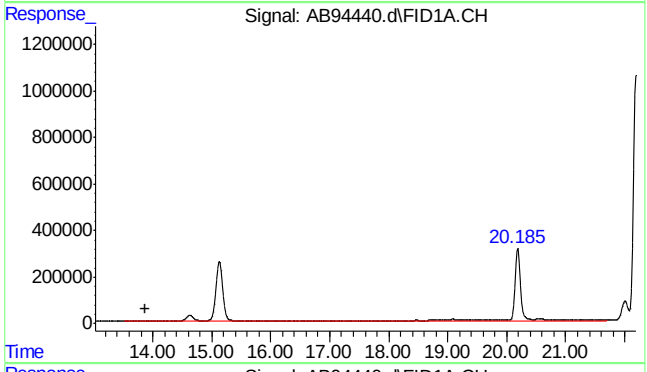

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 3826131
Conc: 9.53 ppb m



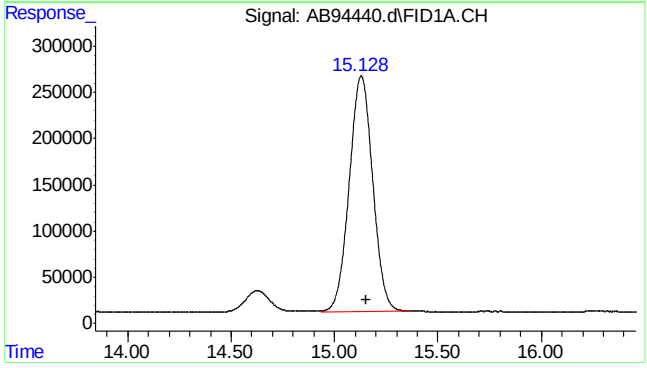

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 2319035
Conc: 5.78 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 8332456
Conc: 20.75 ppb




#4 fluorobenzene

R.T.: 15.129 min
Delta R.T.: -0.022 min
Response: 20090306
Conc: 45.65 ppb



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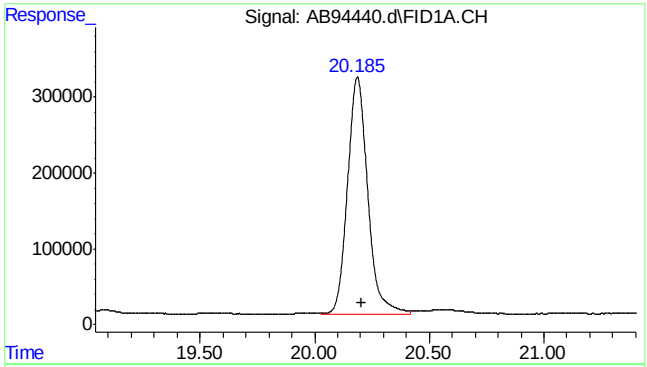
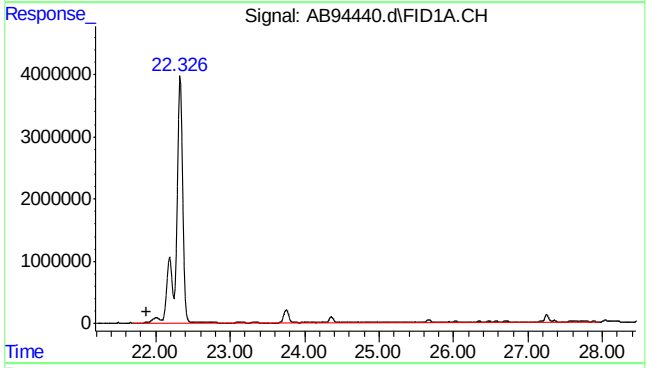


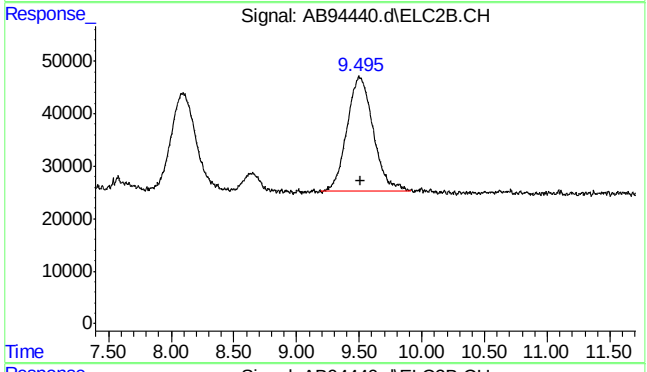

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.019 min
Response: 19178906
Conc: 46.78 ppb



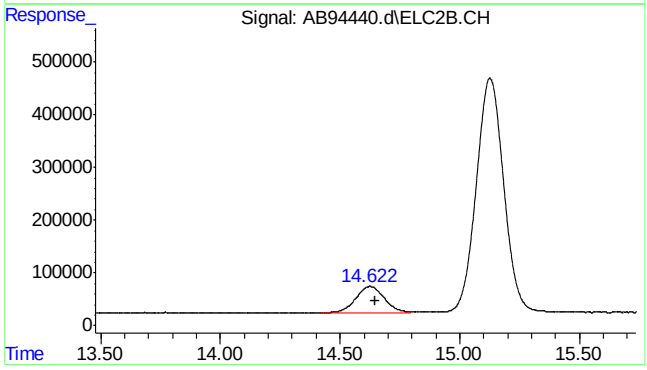

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 298256841
Conc: 476.07 ppb




#14 mtbe #2

R.T.: 9.495 min
Delta R.T.: -0.016 min
Response: 3191469
Conc: 6.33 ppb m




#15 benzene #2

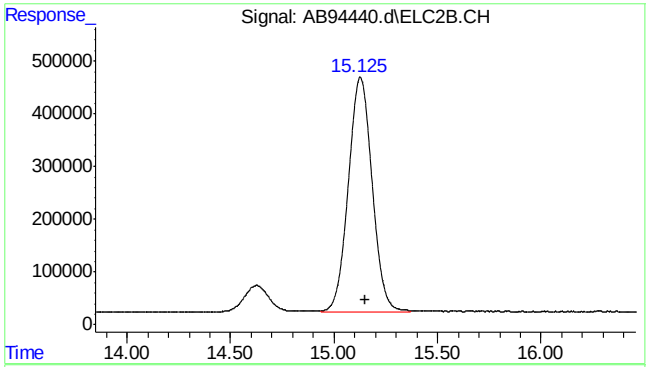
R.T.: 14.623 min
Delta R.T.: -0.023 min
Response: 4203625
Conc: 3.23 ppb

7.1.2

7

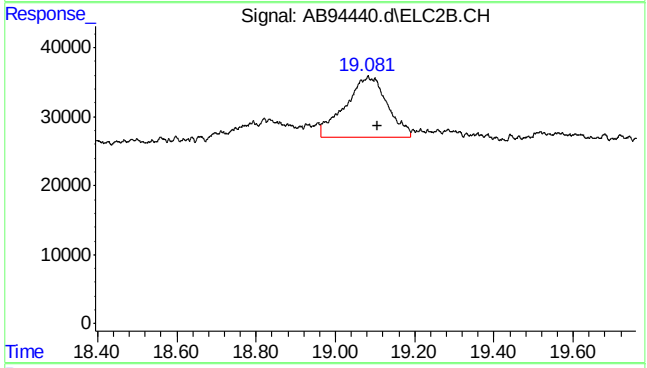


SGS ACCUTEST MC46487



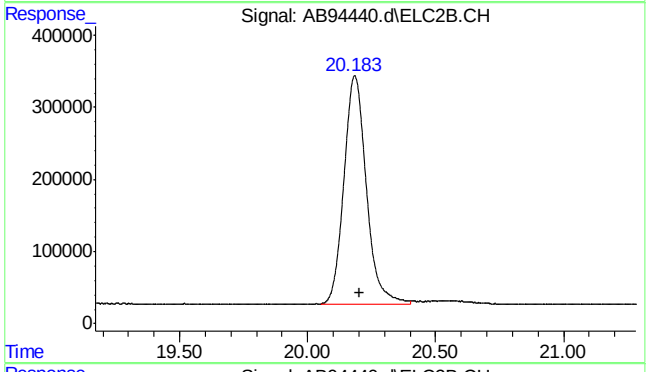

#16 fluorobenzene #2

R.T.: 15.126 min
Delta R.T.: -0.022 min
Response: 35576263
Conc: 42.24 ppb



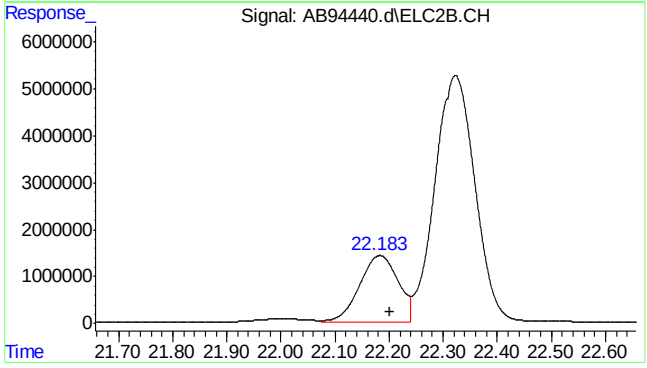

#17 toluene #2

R.T.: 19.081 min
Delta R.T.: -0.025 min
Response: 643214
Conc: 0.56 ppb m




#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 19354749
Conc: 41.46 ppb




#19 ethylbenzene #2

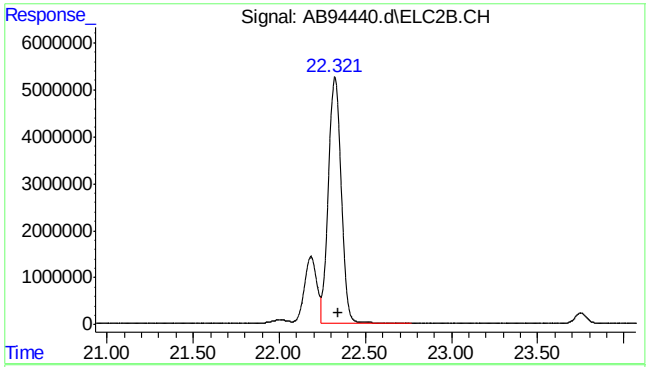
R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 71421984
Conc: 77.14 ppb

7.1.2

7

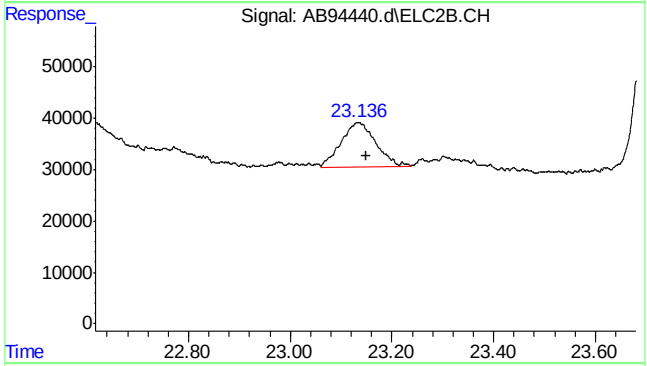


SGS ACCUTEST MC46487



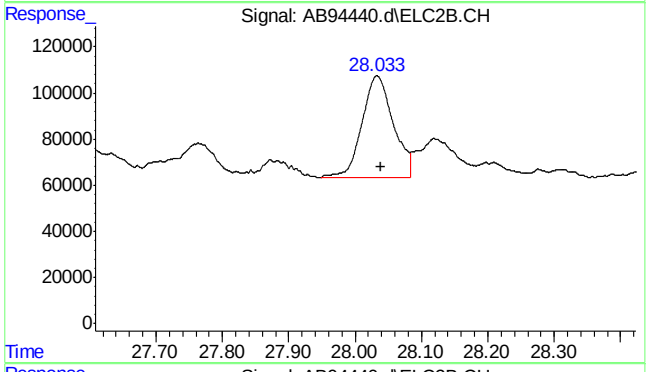

#20 m,p-xylene #2

R.T.: 22.323 min
Delta R.T.: -0.021 min
Response: 274199105
Conc: 258.50 ppb



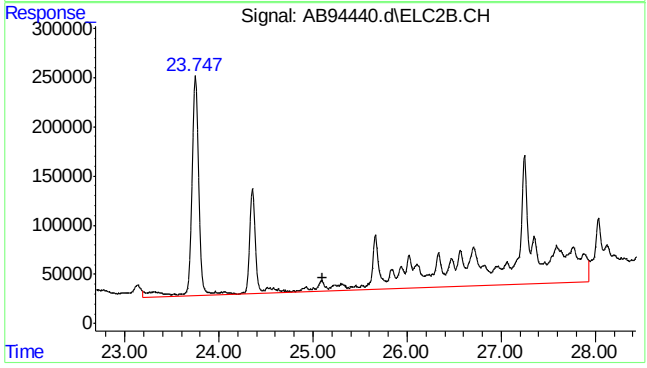

#21 o-xylene #2

R.T.: 23.136 min
Delta R.T.: -0.014 min
Response: 412156
Conc: 0.44 ppb m




#24 naphthalene #2

R.T.: 28.033 min
Delta R.T.: -0.005 min
Response: 1452723
Conc: 2.01 ppb m




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

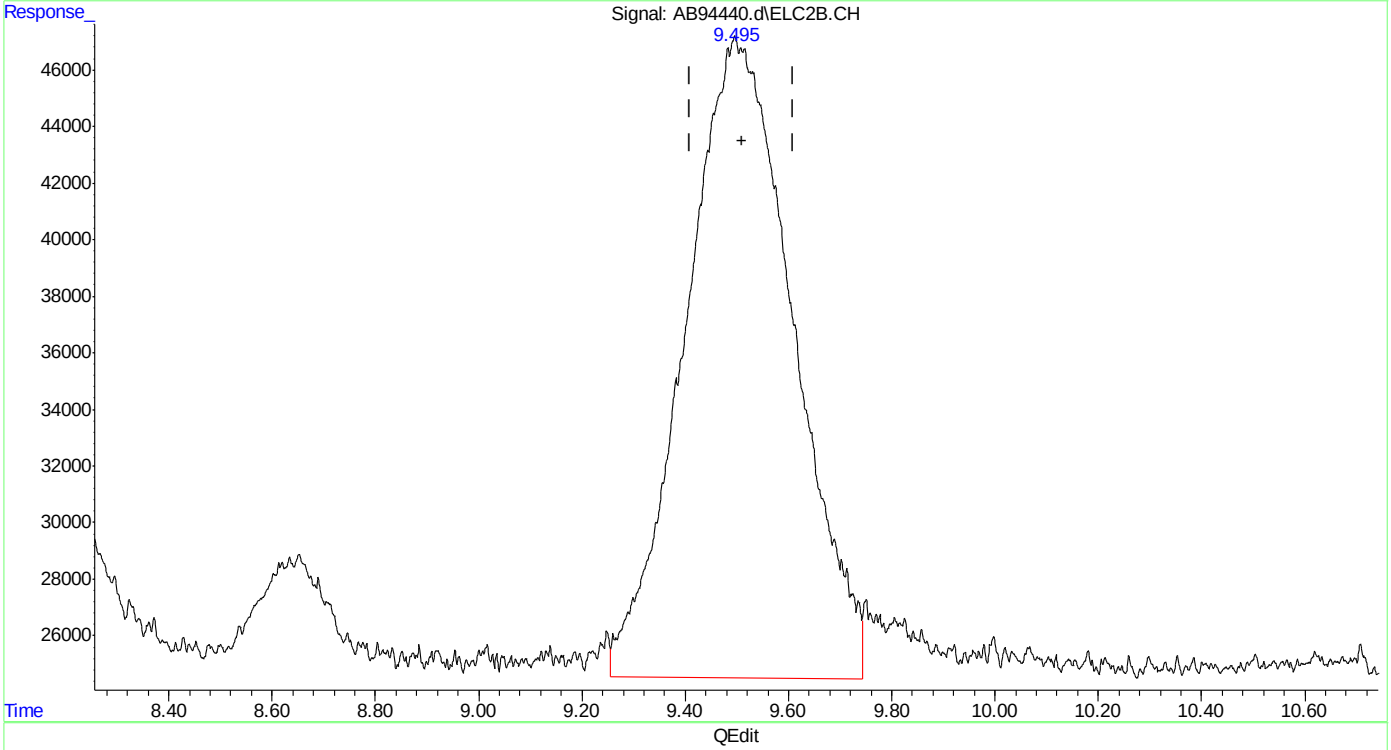
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 53020279
Conc: 55.34 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.496min 6.502 ppb
response 3279955

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:17 2016







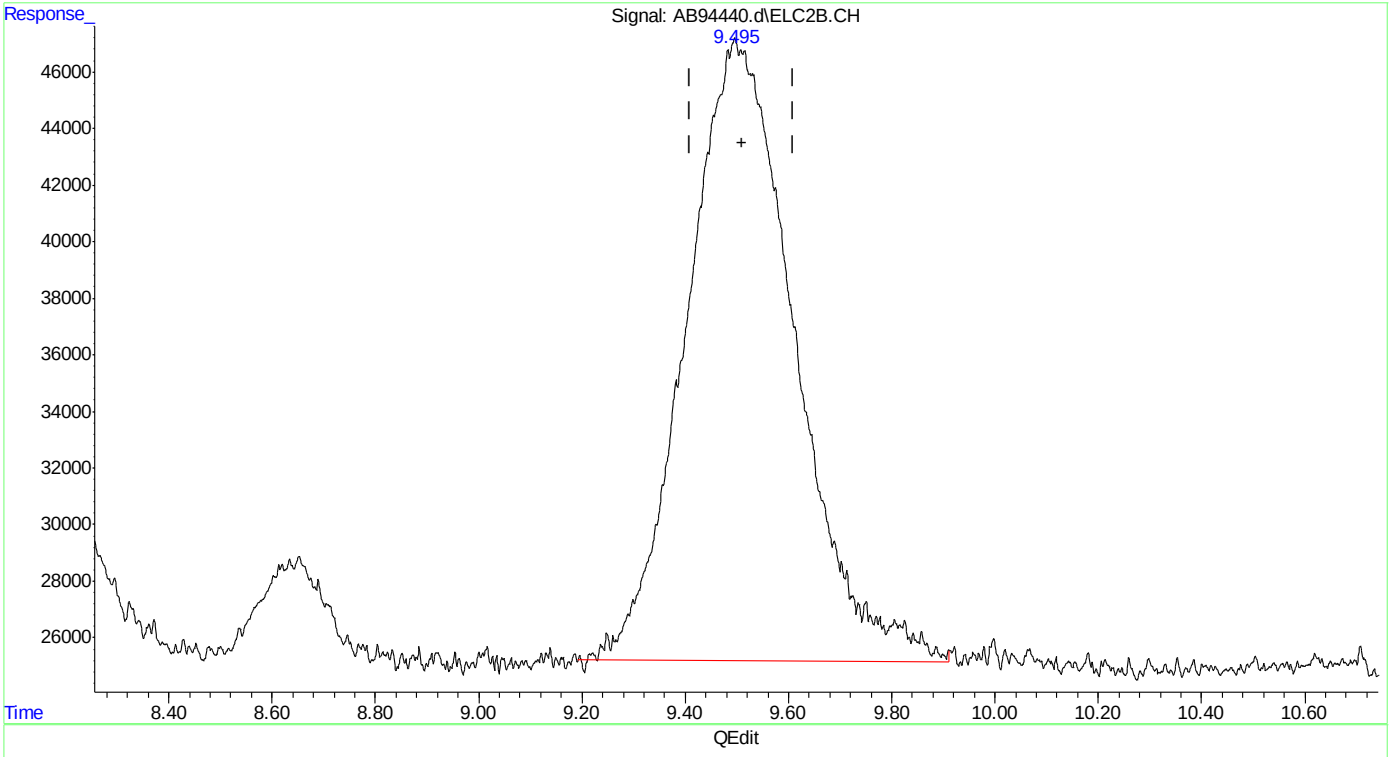
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.495min 6.327 ppb m
response 3191469

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
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Response via : Initial Calibration
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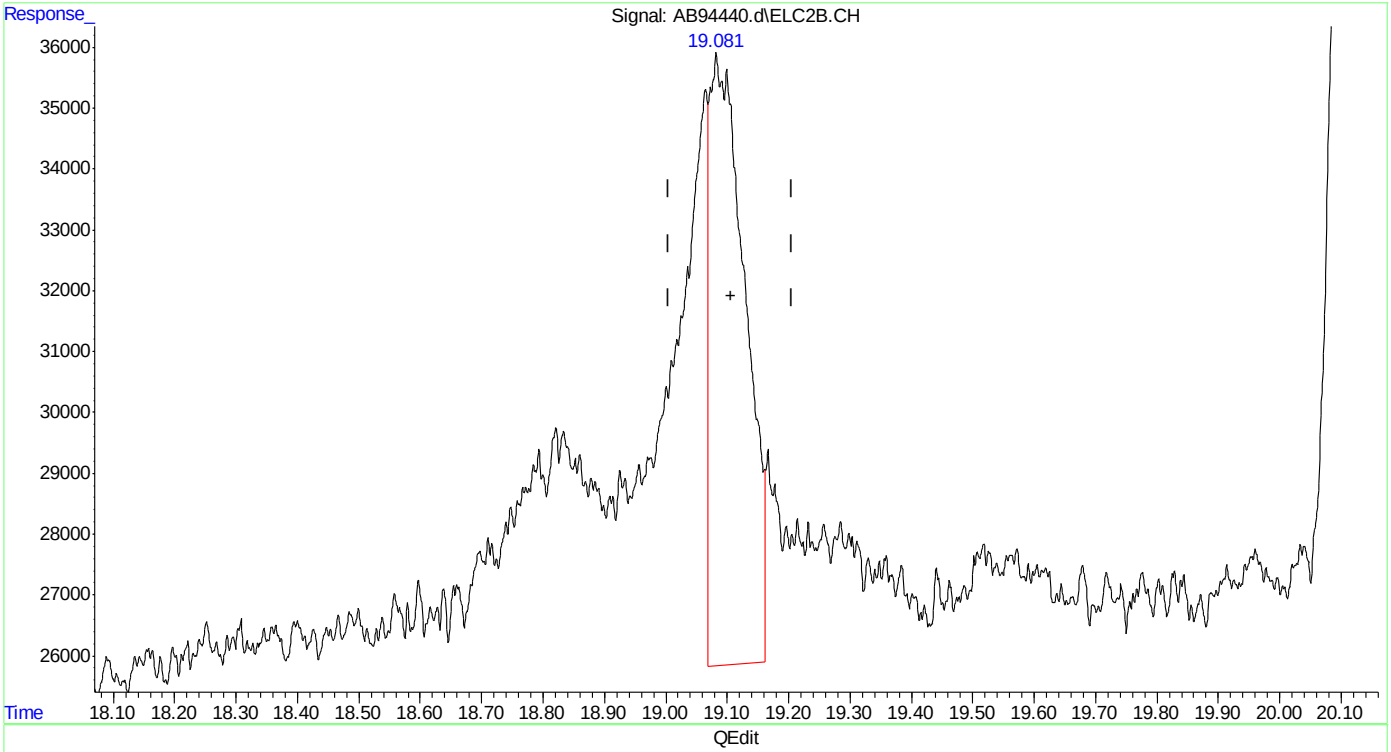
Volume Inj. :
Signal #1 Phase :  Signal #2 Phase:
Signal #1 Info :  Signal #2 Info :




(17) toluene #2
19.082min 0.352 ppb
response 402364

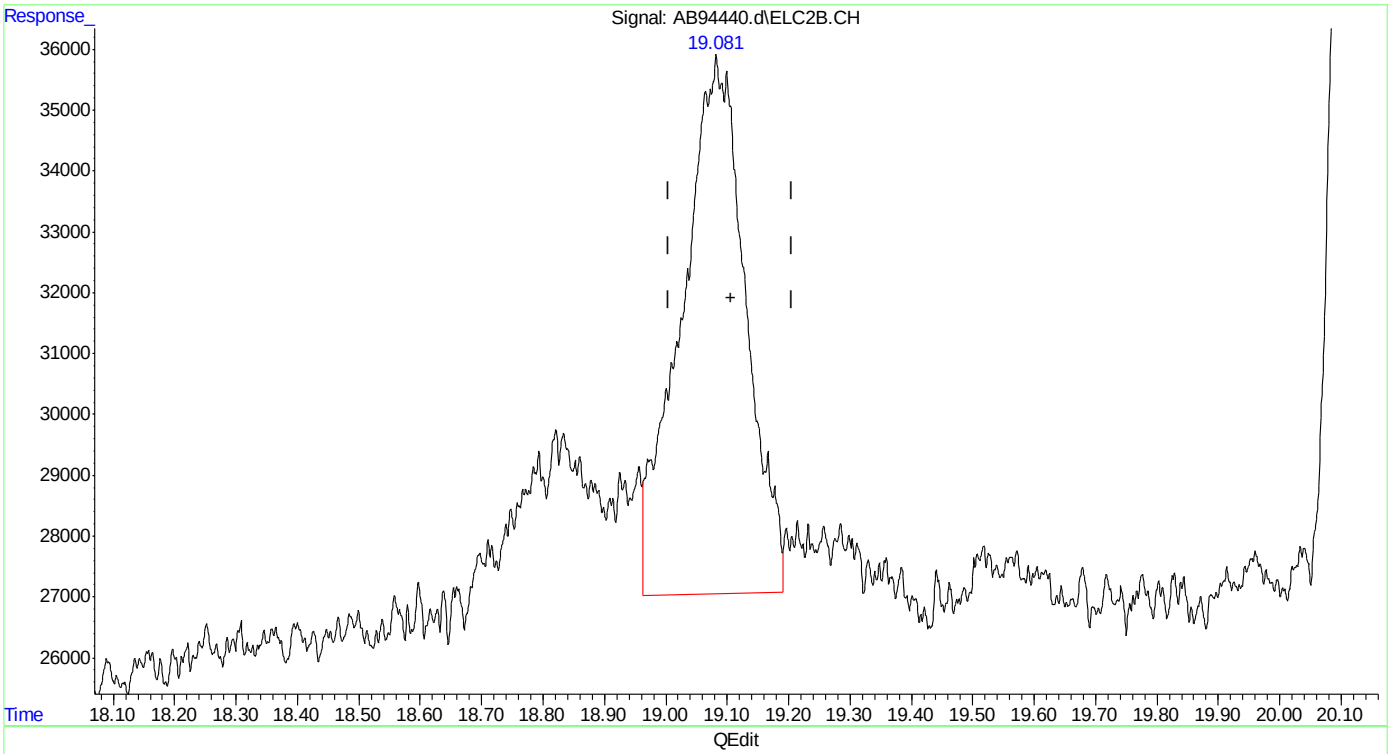
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:32 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.081min 0.563 ppb m
response 643214

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:42 2016







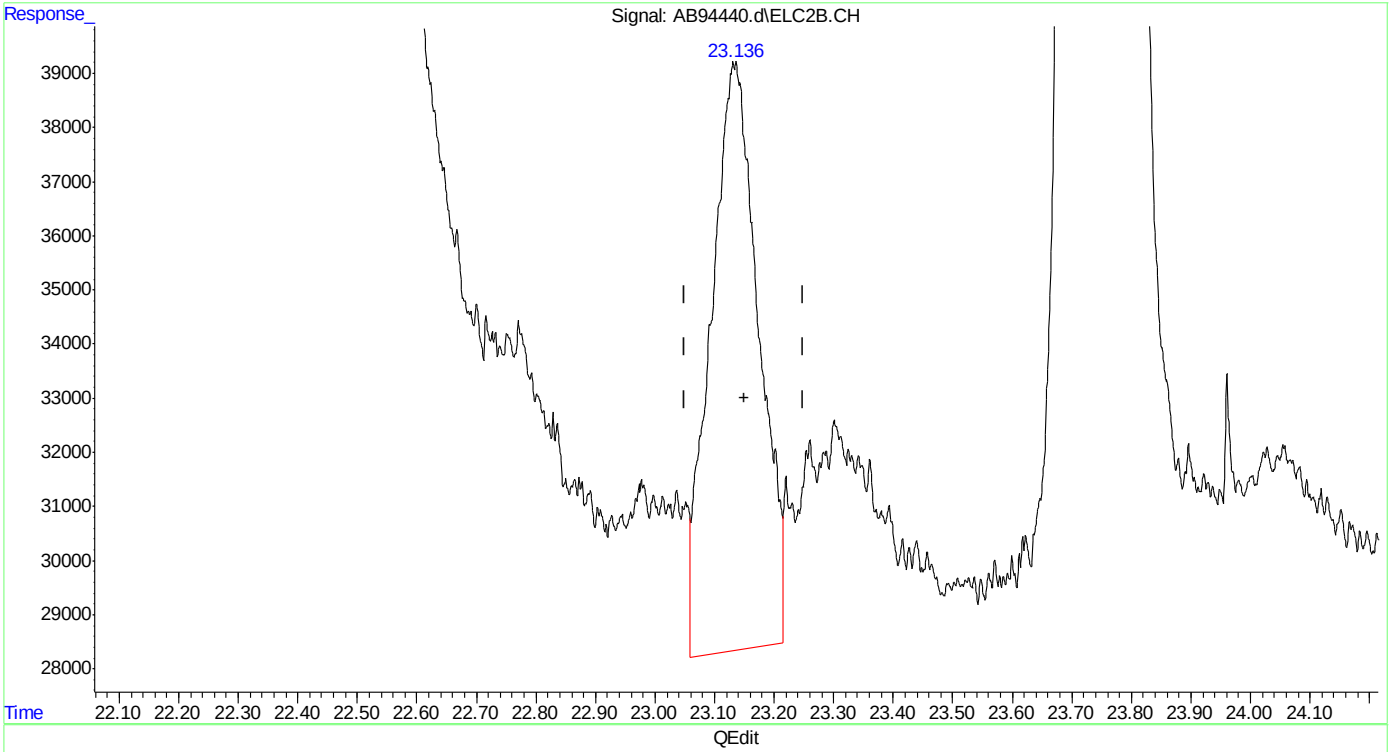
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.133min 0.653 ppb
response 610321

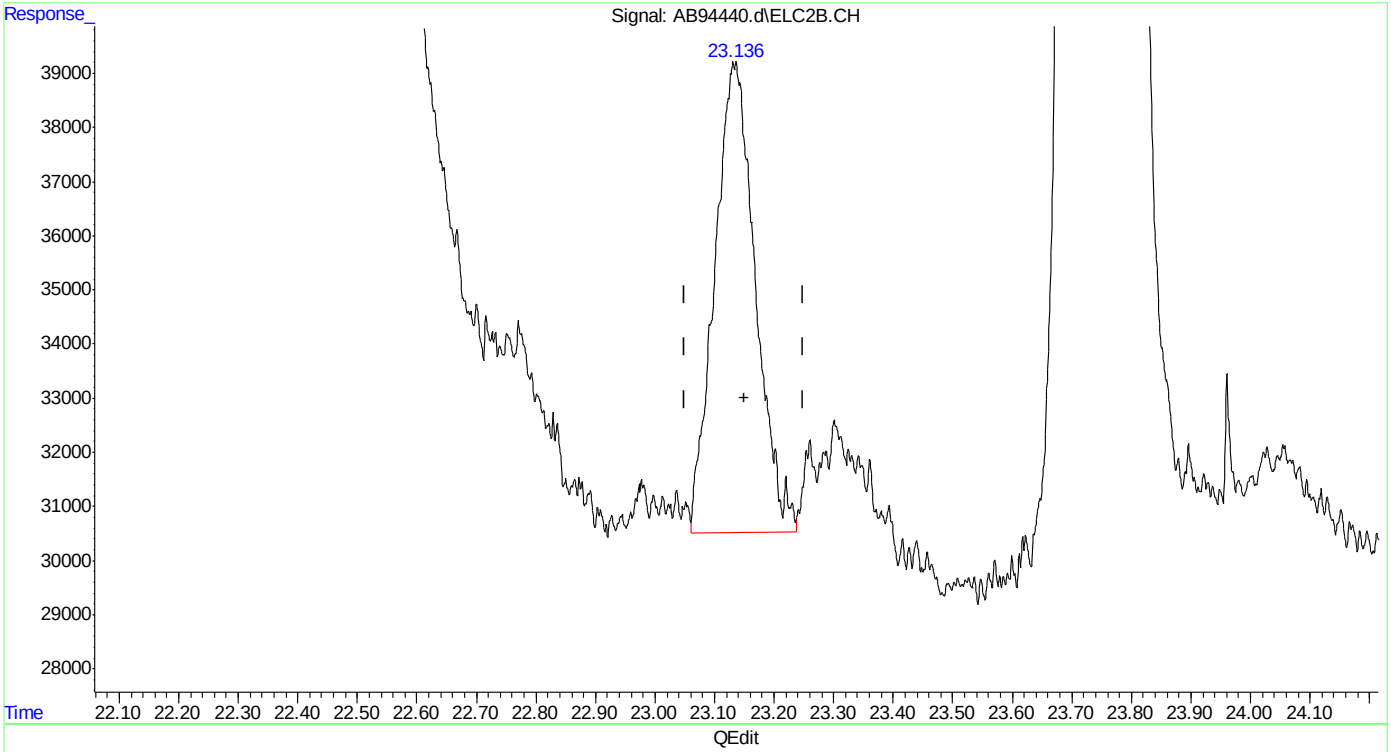
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:48 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.136min 0.441 ppb m
response 412156

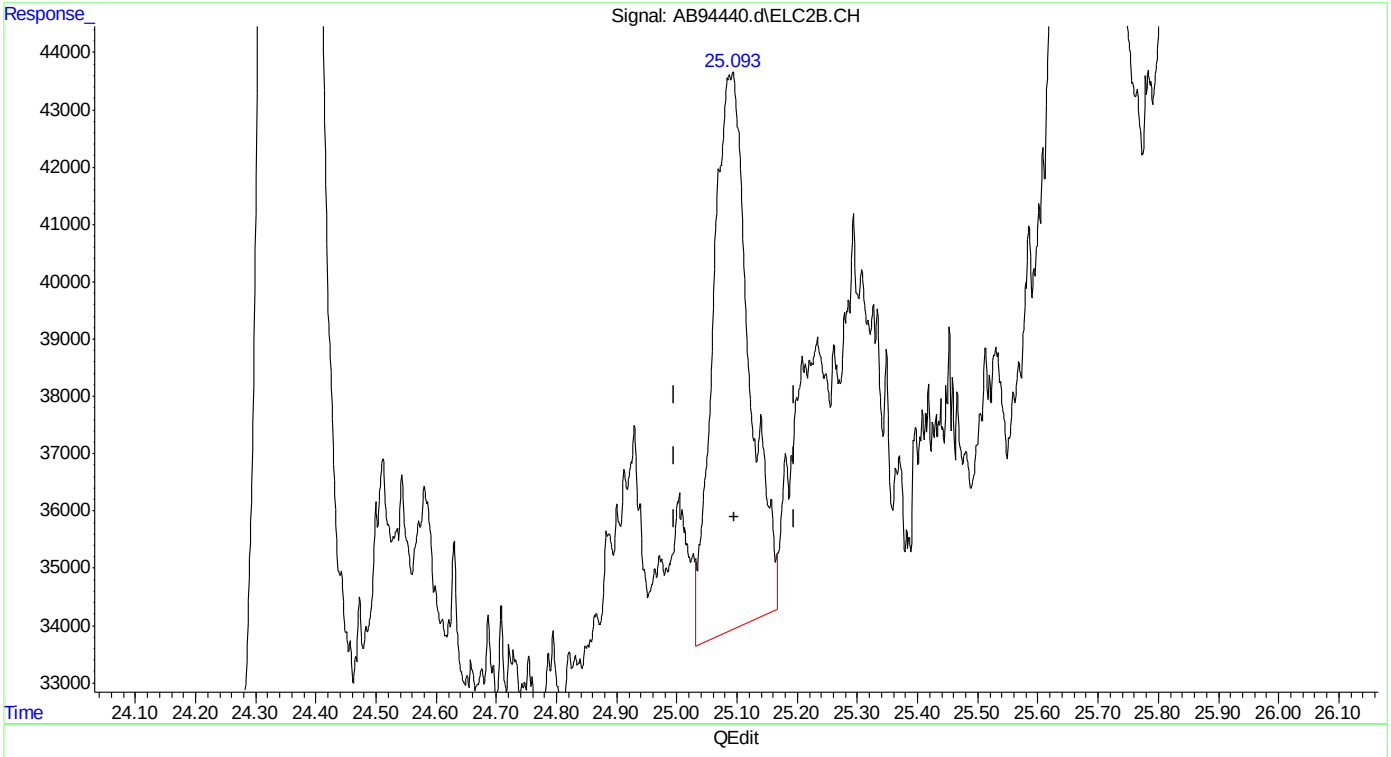
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:53 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.090min 0.425 ppb
response 406679

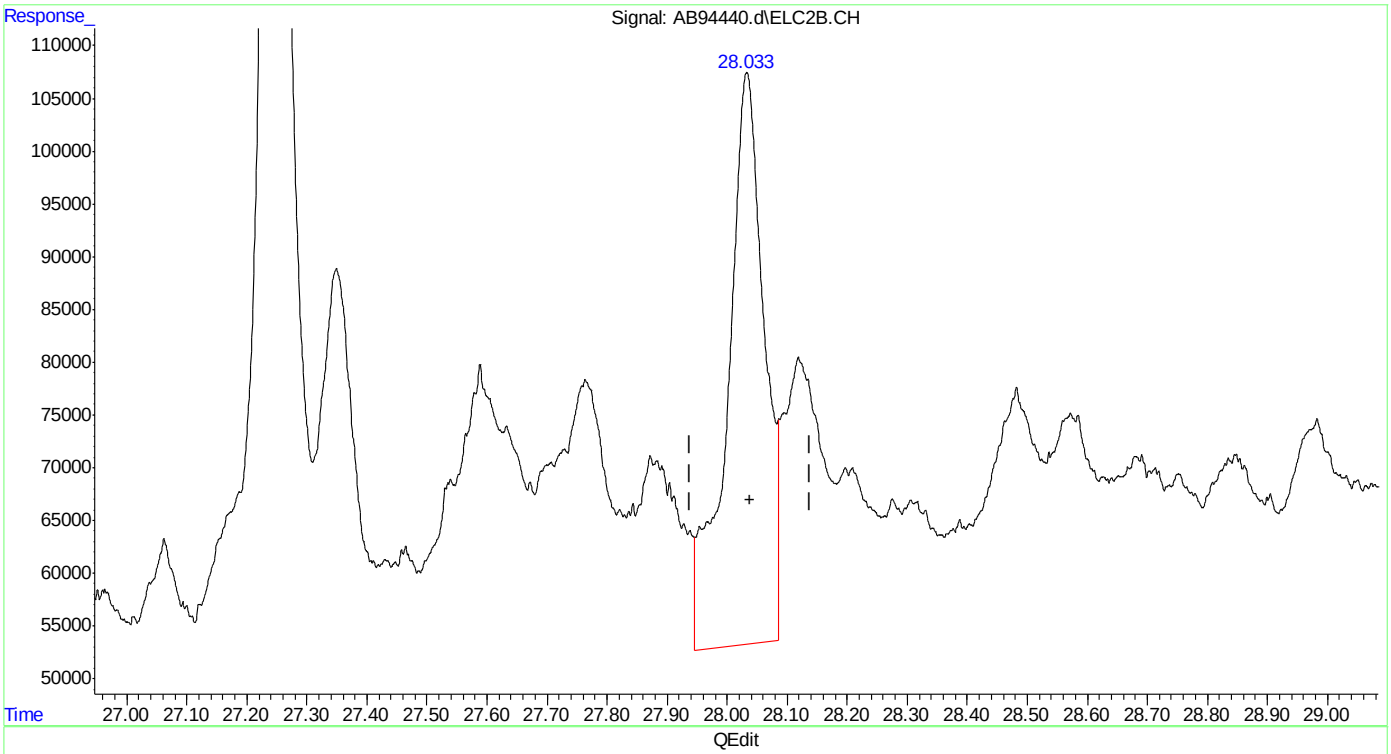
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:01:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.033min 3.195 ppb
response 2309423

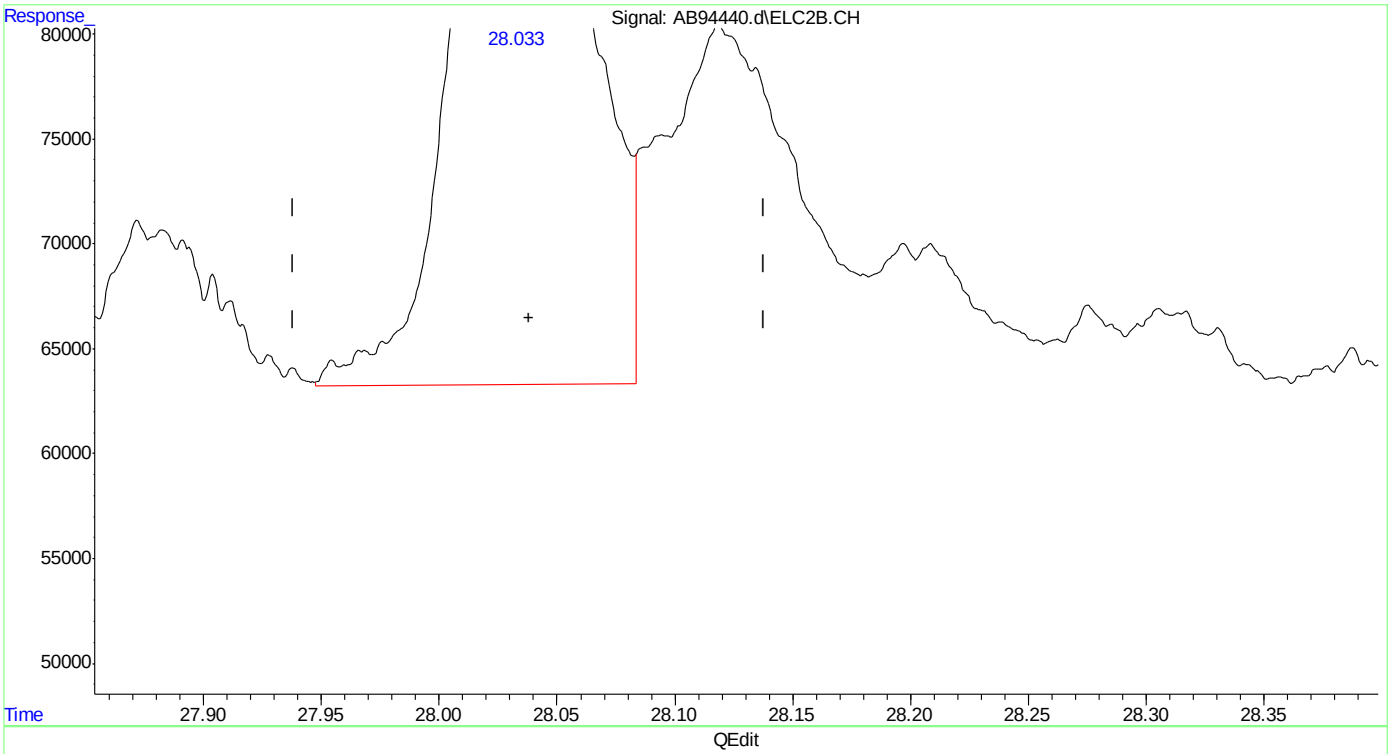
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:02:01 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94440.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:11:24
Operator : tonyf
Sample : mc46487-2,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 15 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:16 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.033min 2.010 ppb m
response 1452723

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:02:09 2016

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:04:53 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.129 | 19864051 | 45.131 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 90.26% | | |
| 6) s 2,3,4-trifluorotoluene | 20.187 | 17948429 | 43.782 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 87.56% | | |
| 16) s fluorobenzene #2 | 15.128 | 34876020 | 41.408 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 82.82% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 18360109 | 39.325 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 78.65% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 1960584 | 4.883 | ppb | m |
| 2) h rt7/10 | 8.720 | 968195 | 2.411 | ppb | m |
| 3) h rt10/13 | 13.870 | 5260761 | 13.102 | ppb | |
| 8) h rt20/25 | 21.870 | 19838972 | 31.666 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 22477104 | 23.461 | ppb | m |

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



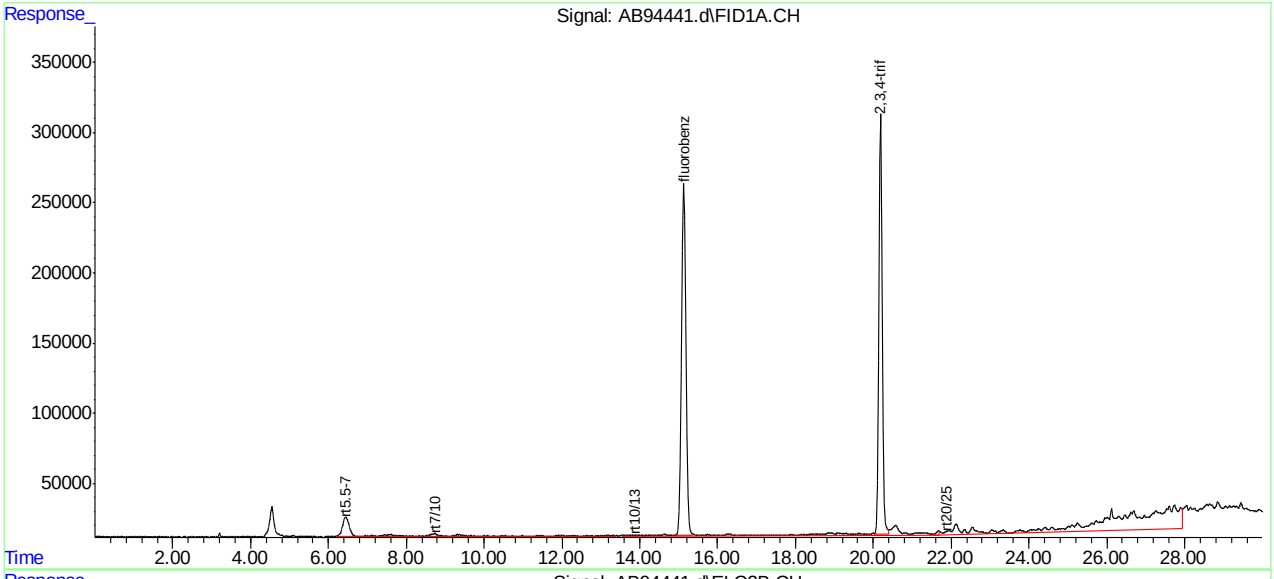
SGS ACCUTEST MC46487

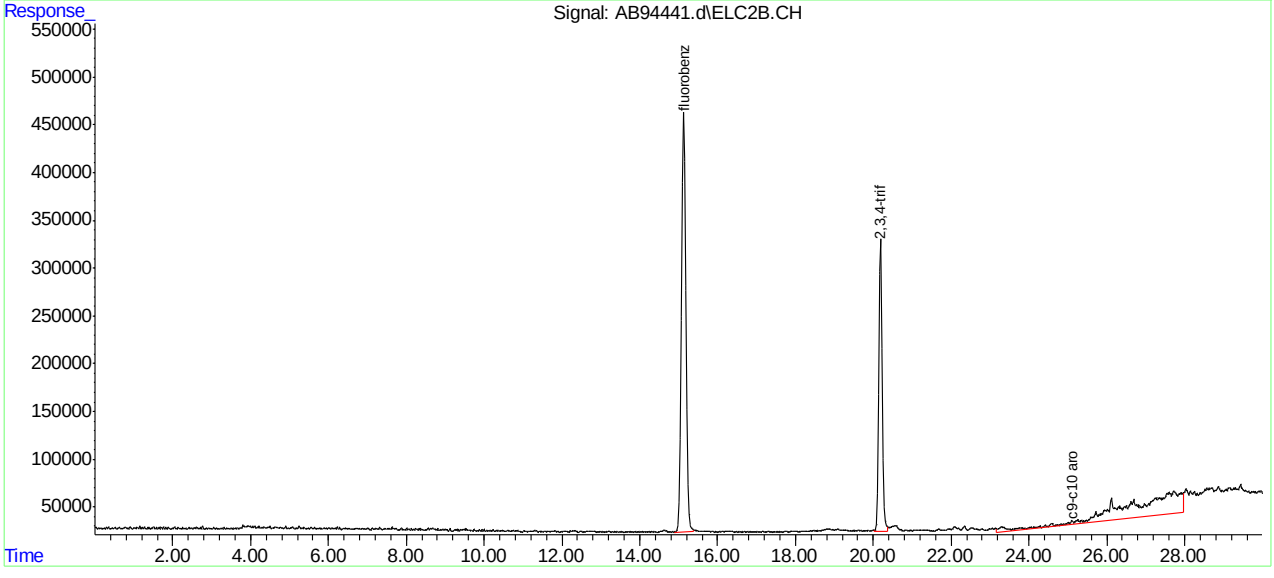
Quantitation Report (QT Reviewed)

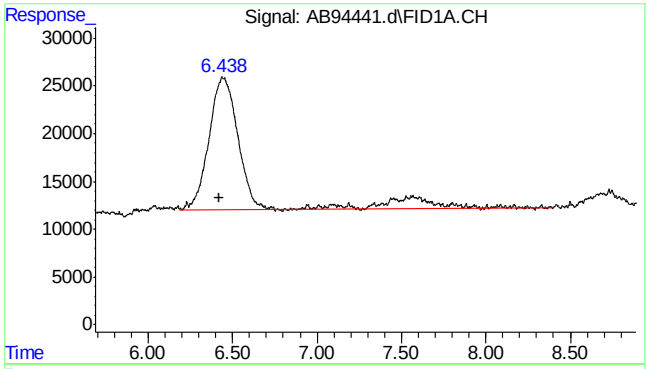
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:04:53 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

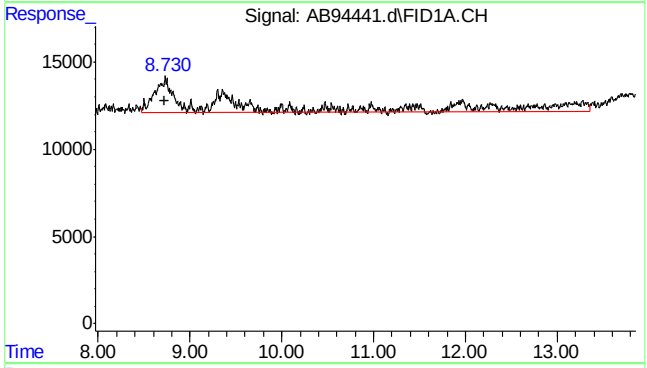




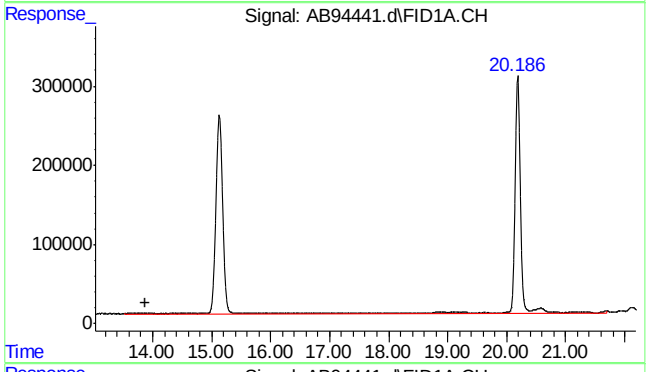

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1960584
Conc: 4.88 ppb m



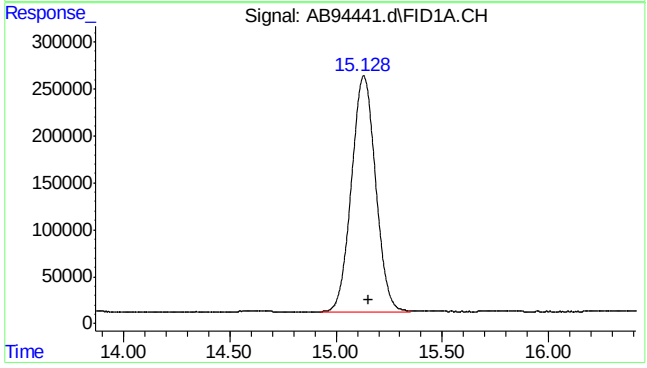

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 968195
Conc: 2.41 ppb m



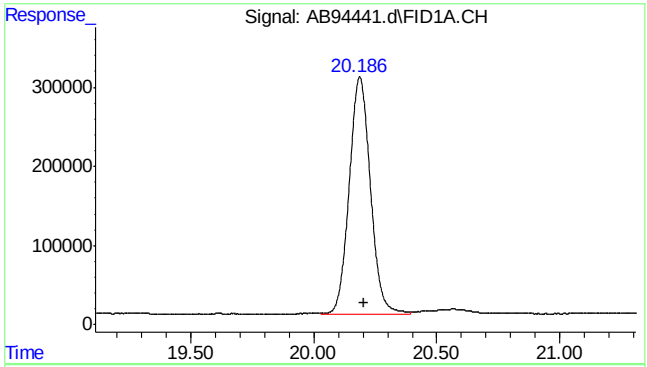

#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 5260761
Conc: 13.10 ppb



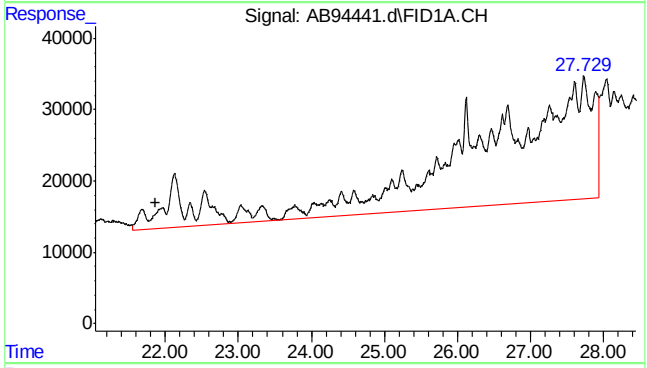

#4 fluorobenzene

R.T.: 15.129 min
Delta R.T.: -0.022 min
Response: 19864051
Conc: 45.13 ppb



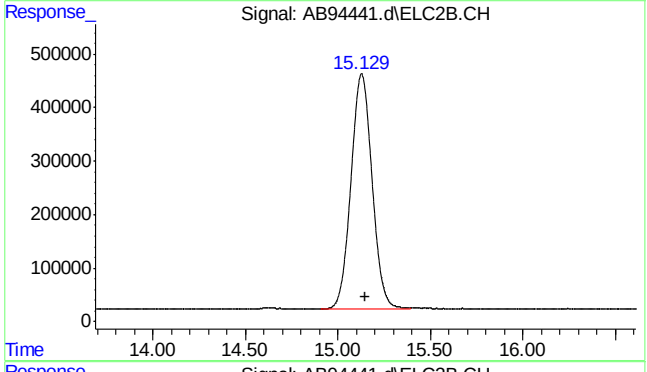

#6 2,3,4-trifluorotoluene

R.T.: 20.187 min
Delta R.T.: -0.019 min
Response: 17948429
Conc: 43.78 ppb



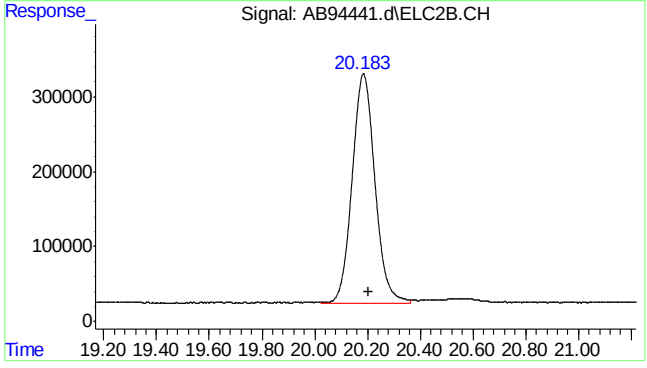

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 19838972
Conc: 31.67 ppb m



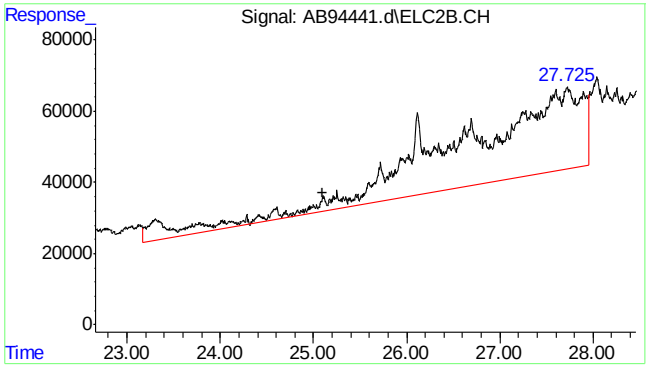

#16 fluorobenzene #2

R.T.: 15.128 min
Delta R.T.: -0.020 min
Response: 34876020
Conc: 41.41 ppb




#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 18360109
Conc: 39.33 ppb




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

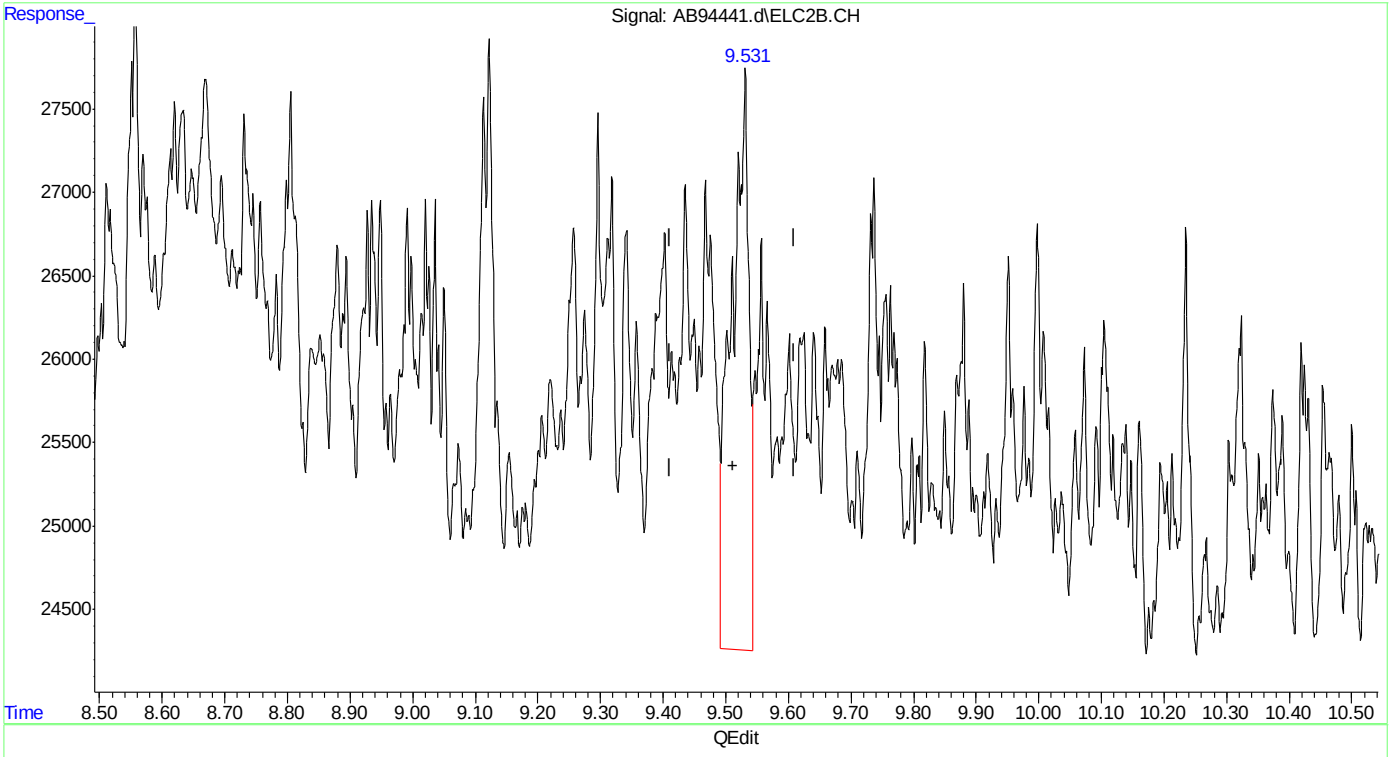
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 22477104
Conc: 23.46 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.531min 0.133 ppb
response 67208

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:03 2016







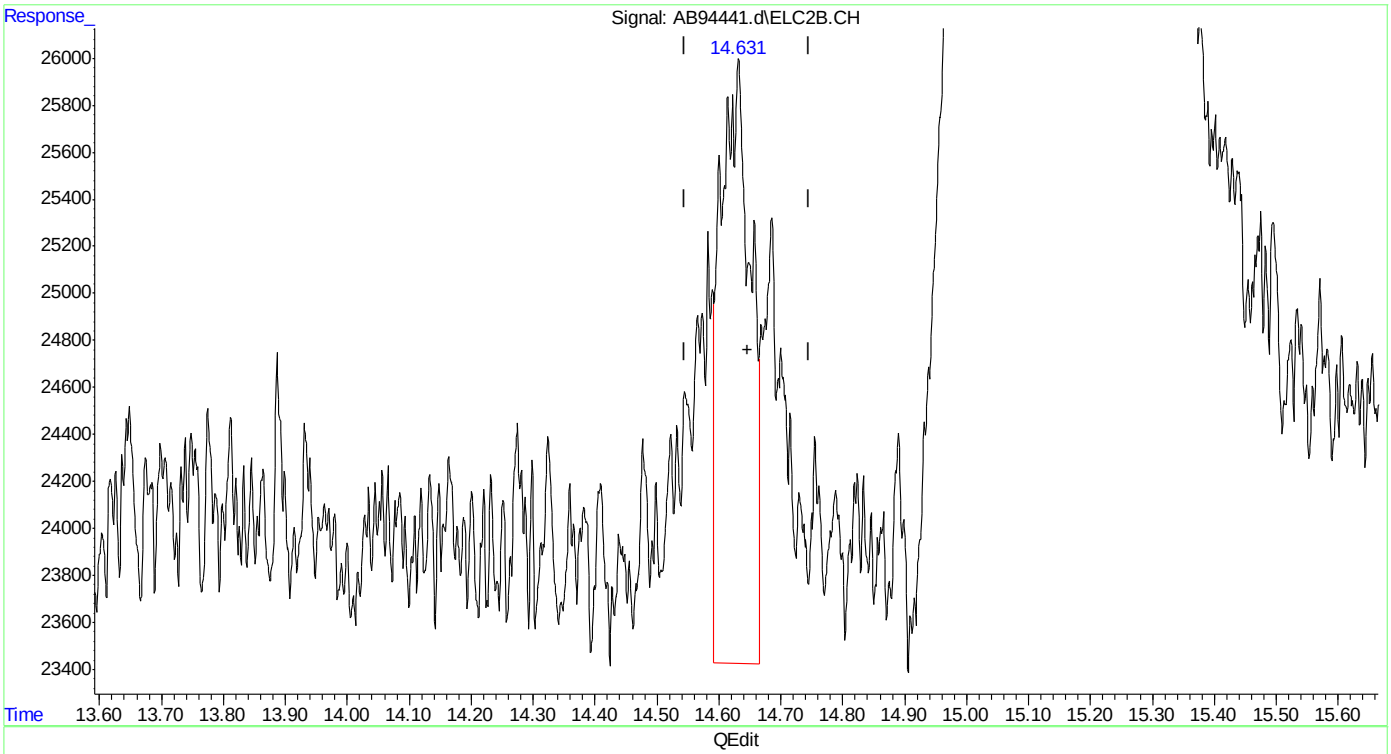
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.632min 0.066 ppb
response 86546

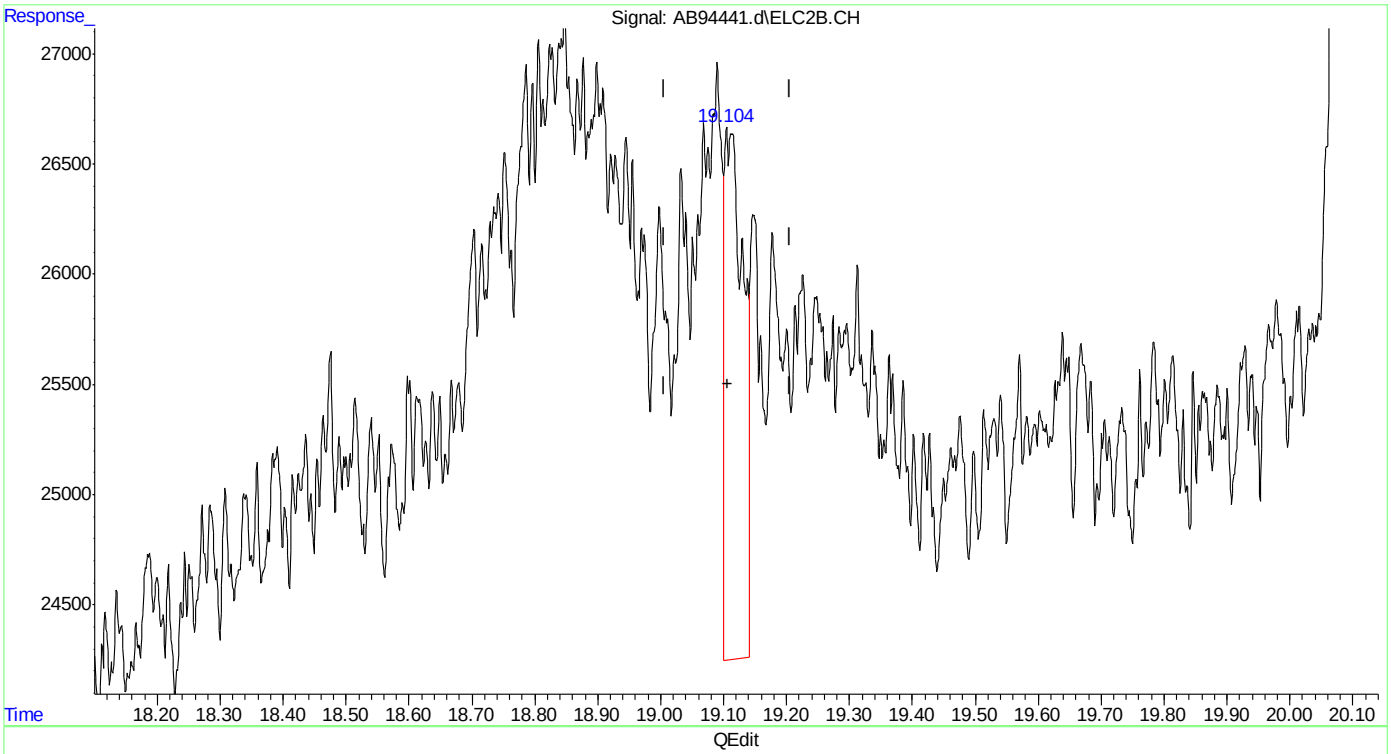
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.113min 0.043 ppb
response 49546

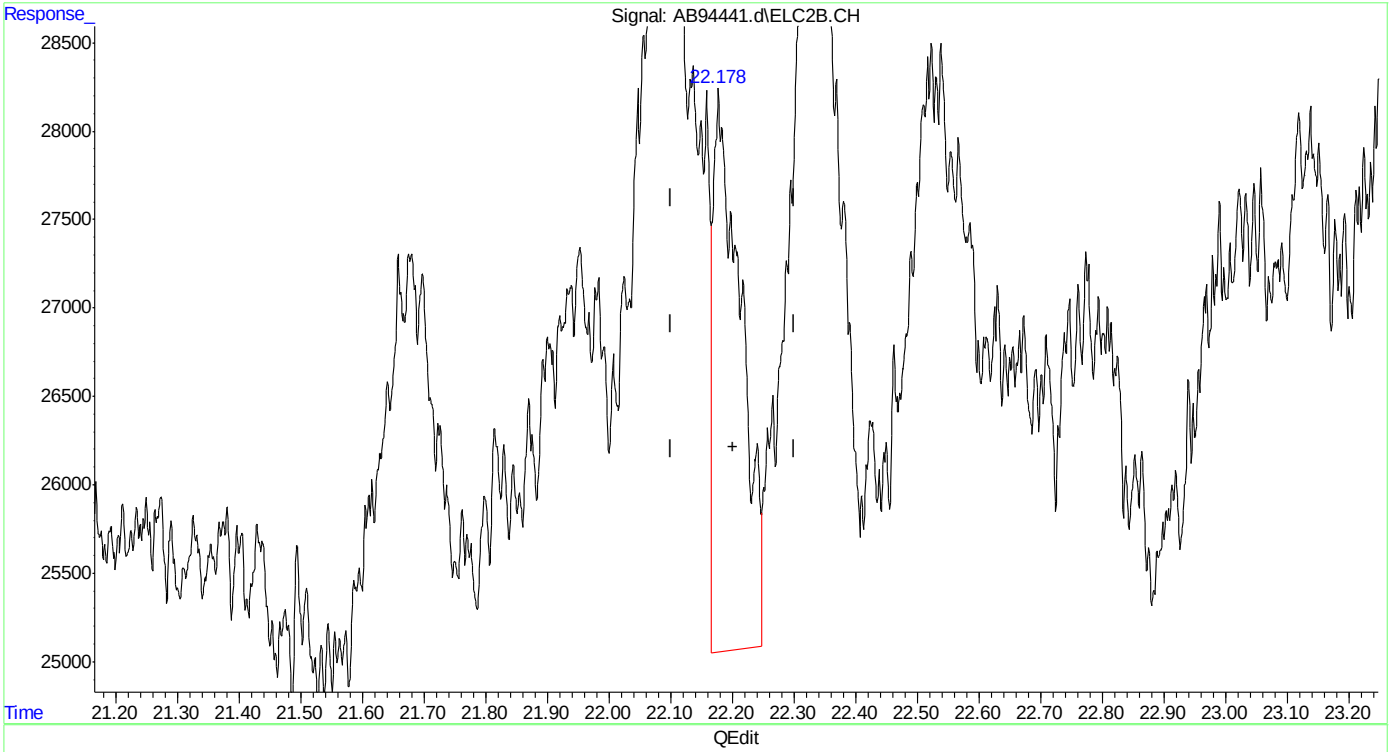
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2
22.178min 0.108 ppb
response 99881

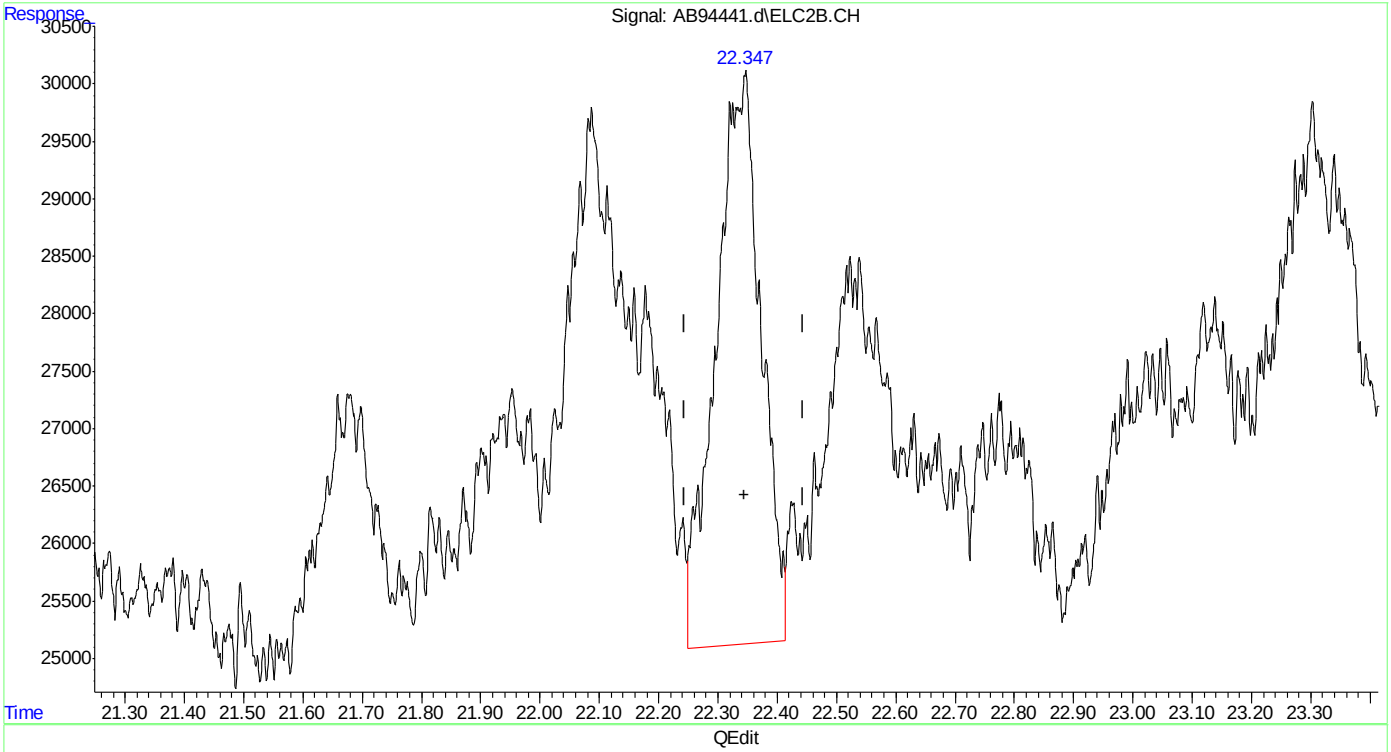
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:17 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2
22.346min 0.249 ppb
response 264416

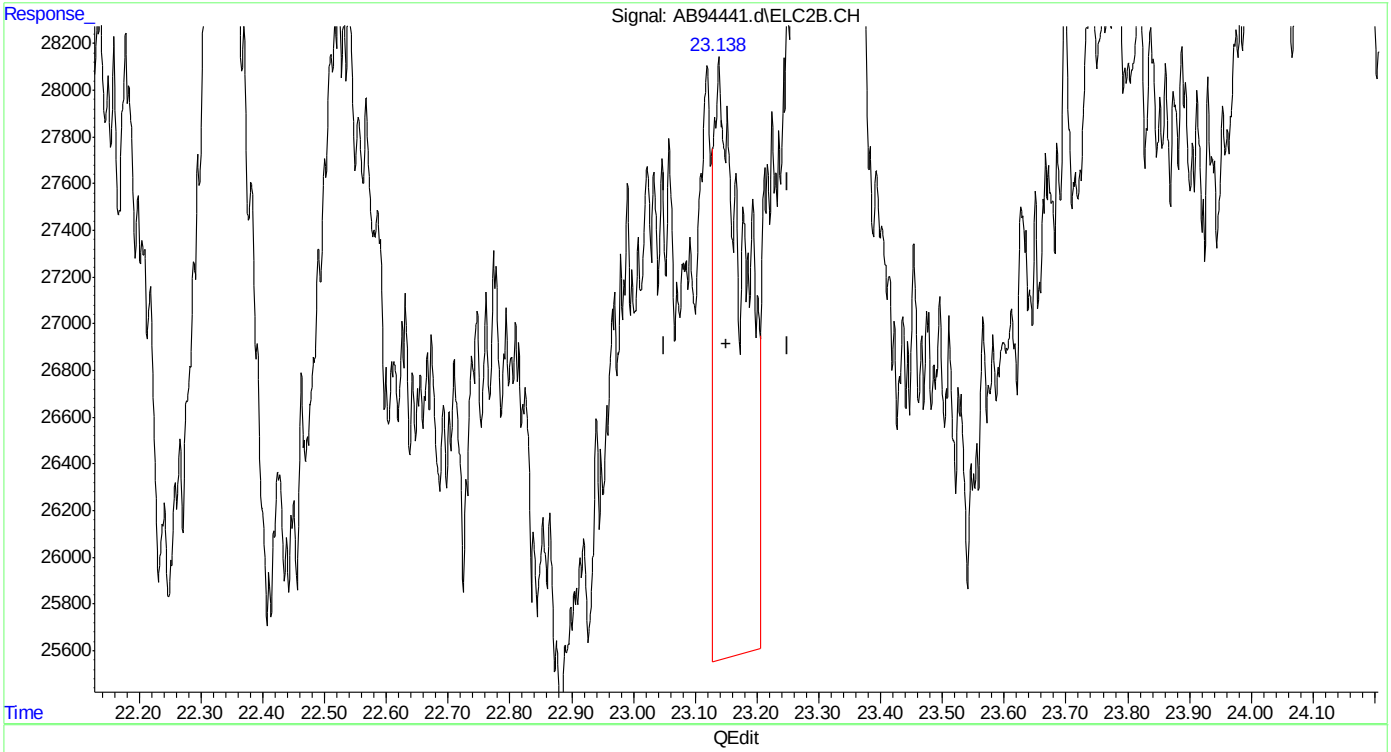
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:20 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.138min 0.096 ppb
response 89249

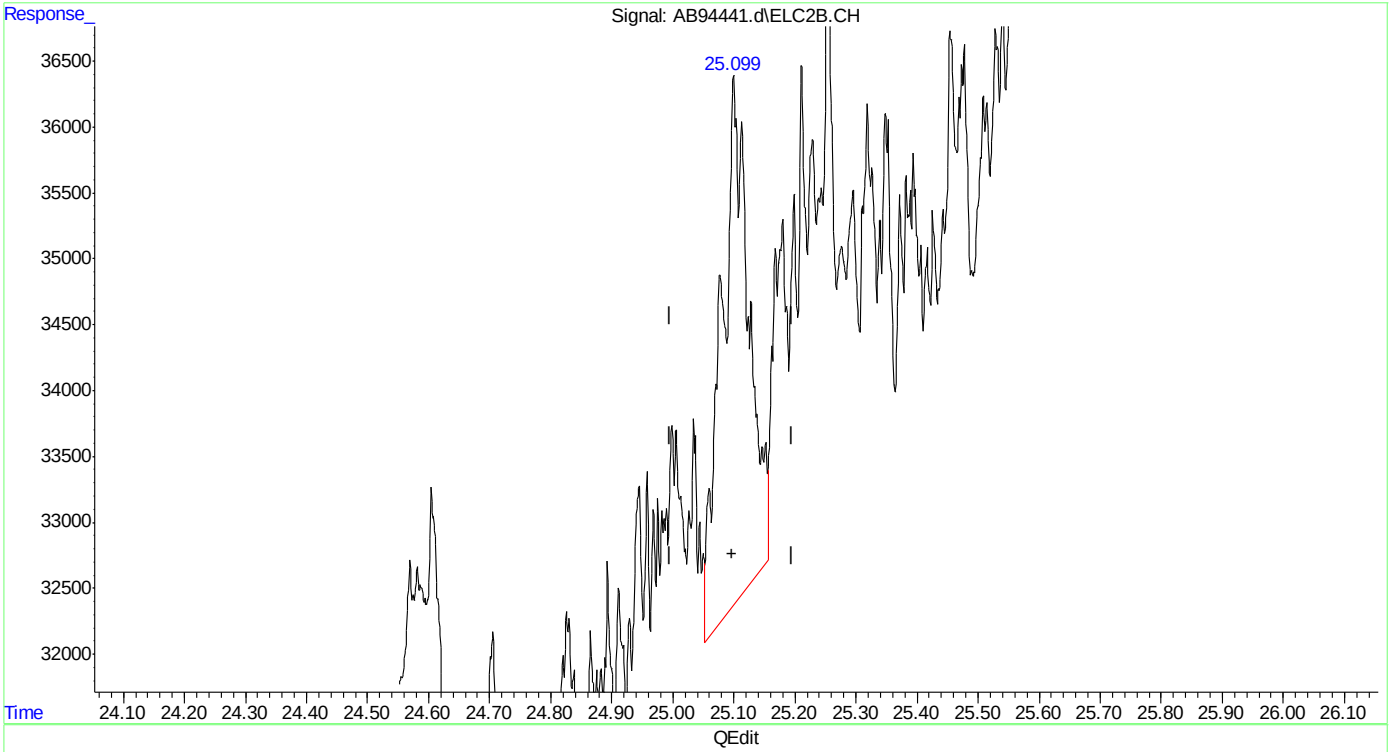
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:25 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.100min 0.131 ppb
response 125378

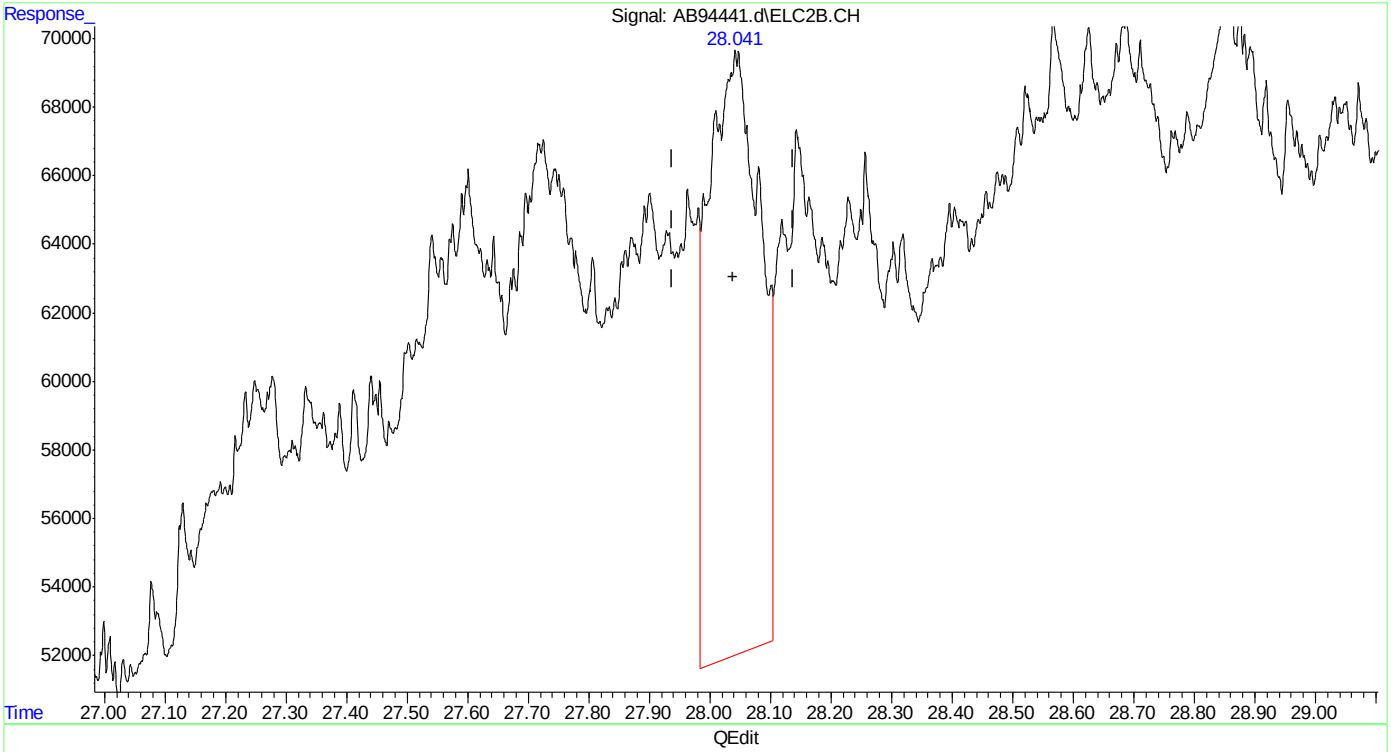
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:31 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.044min 1.447 ppb
response 1046402

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:04:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94441.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 18:49:23
Operator : tonyf
Sample : mc46487-3,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 16 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:20 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(25) c9-c10 arom as 1,2,4-tmb (h)
25.096min 28.424 ppb m
response 27231323

(+) = Expected Retention Time



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Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:06:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.130 | 19856837 | 45.115 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 90.23% | | |
| 6) s 2,3,4-trifluorotoluene | 20.187 | 17840202 | 43.518 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 87.04% | | |
| 16) s fluorobenzene #2 | 15.128 | 35001907 | 41.558 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 83.12% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.185 | 18278291 | 39.150 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 78.30% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 694734 | 1.730 | ppb | m |
| 2) h rt7/10 | 8.720 | 705742 | 1.758 | ppb | m |
| 3) h rt10/13 | 13.870 | 4830827 | 12.032 | ppb | |
| 8) h rt20/25 | 21.870 | 23285730 | 37.168 | ppb | m |
| 24) naphthalene #2 | 28.050 | 316545 | 0.438 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 29333989 | 30.619 | ppb | m |

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



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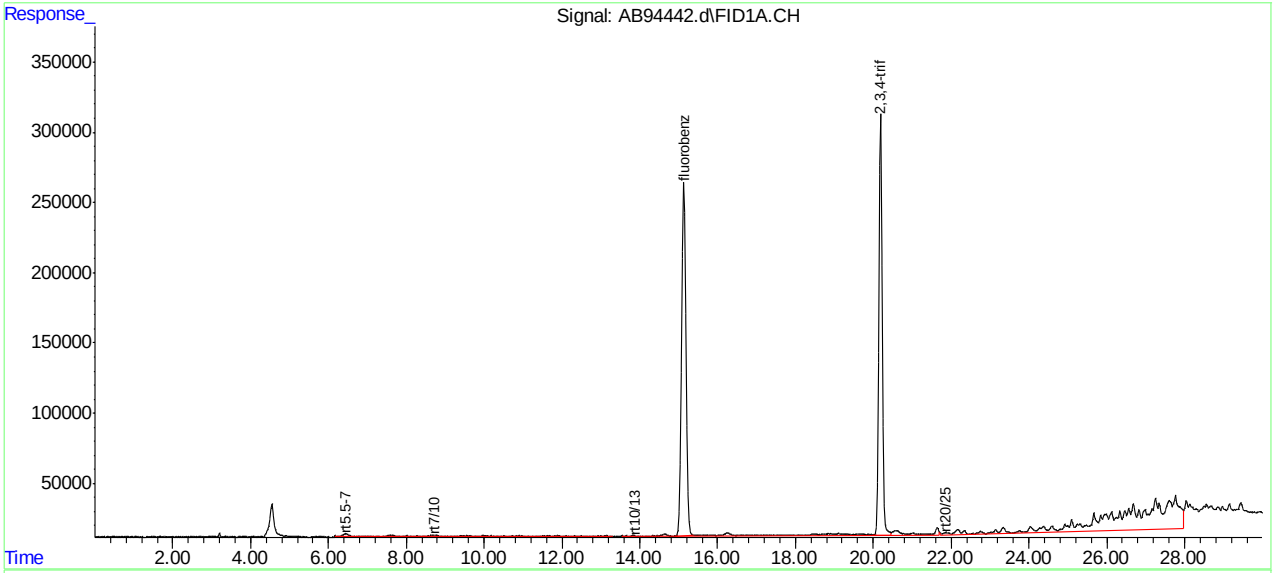
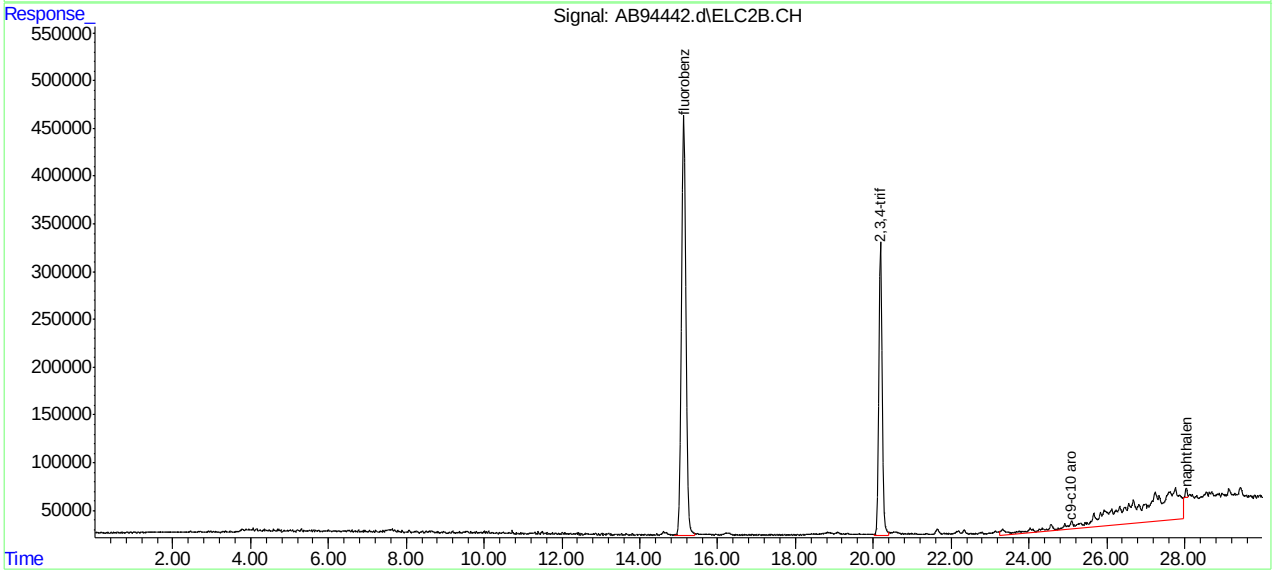
Quantitation Report (QT Reviewed)

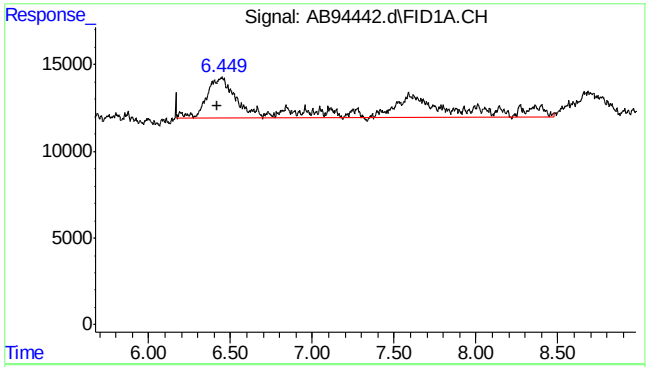
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:06:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

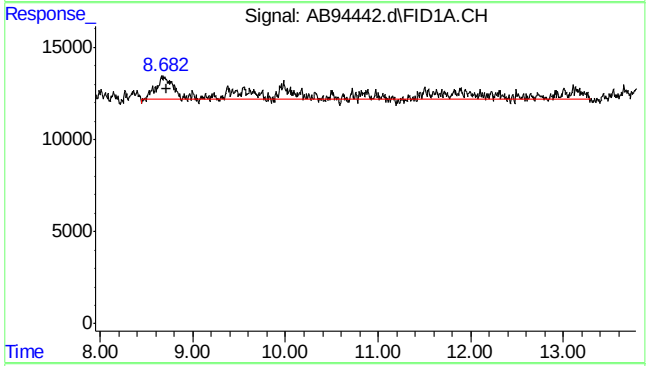




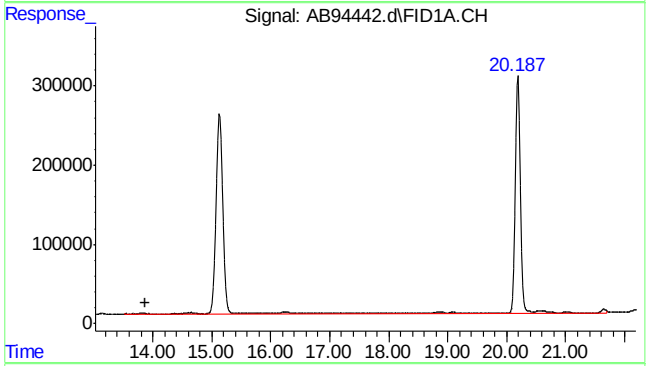

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 694734
Conc: 1.73 ppb m



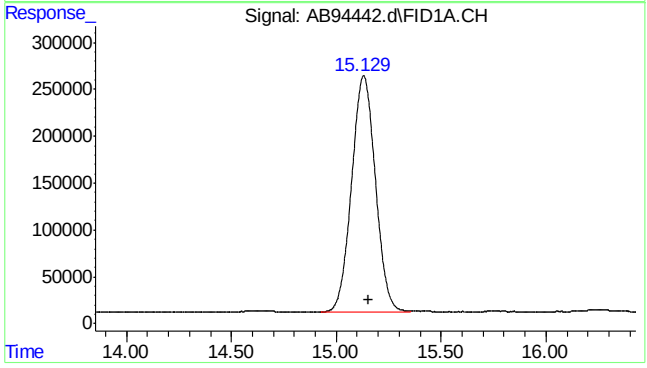

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 705742
Conc: 1.76 ppb m



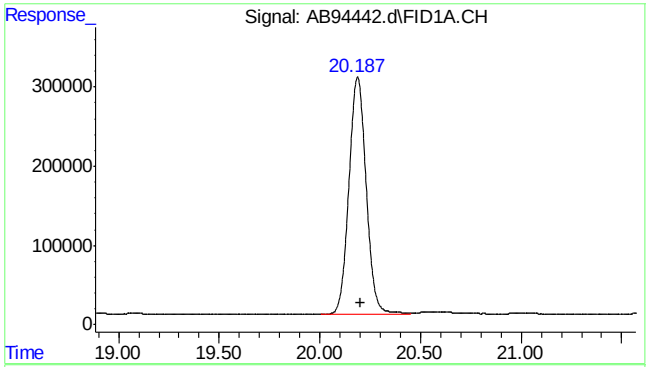

#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 4830827
Conc: 12.03 ppb



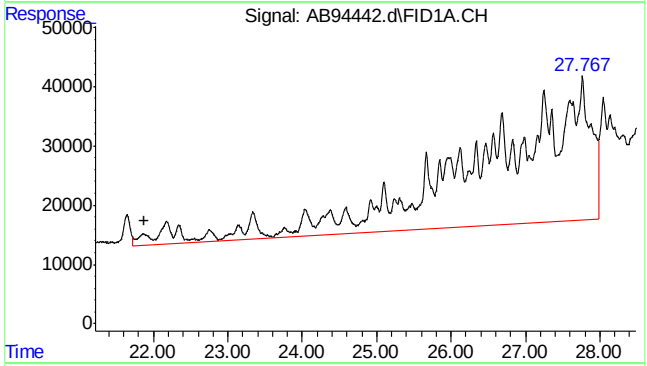

#4 fluorobenzene

R.T.: 15.130 min
Delta R.T.: -0.021 min
Response: 19856837
Conc: 45.11 ppb



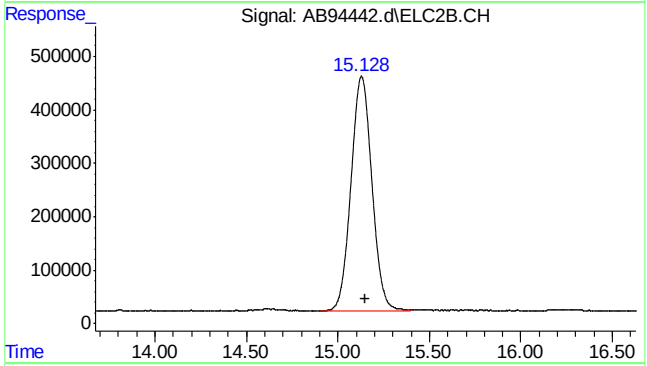

#6 2,3,4-trifluorotoluene

R.T.: 20.187 min
Delta R.T.: -0.018 min
Response: 17840202
Conc: 43.52 ppb



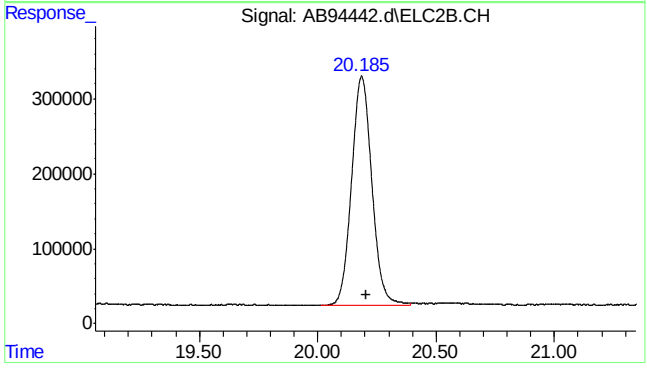

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 23285730
Conc: 37.17 ppb m




#16 fluorobenzene #2

R.T.: 15.128 min
Delta R.T.: -0.020 min
Response: 35001907
Conc: 41.56 ppb




#18 2,3,4-trifluorotoluene #2

R.T.: 20.185 min
Delta R.T.: -0.018 min
Response: 18278291
Conc: 39.15 ppb

7.1.4

7



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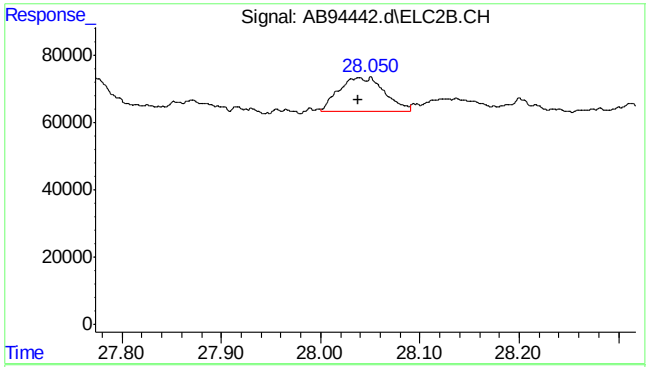
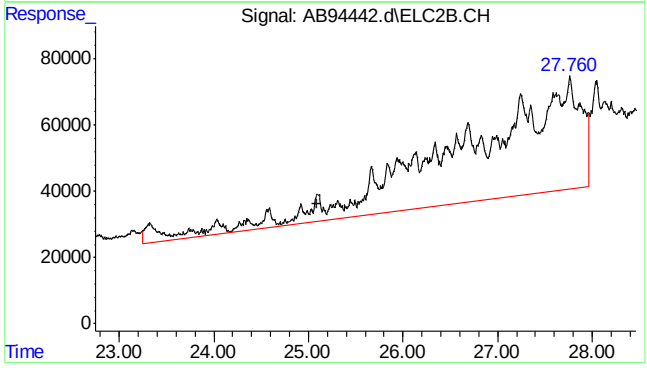



#24 naphthalene #2

```
      R.T.:   28.050 min
Delta R.T.:    0.012 min
  Response:    316545
      Conc:   0.44 ppb m
```




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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  29333989
      Conc:  30.62 ppb m
```

7.1.4

7



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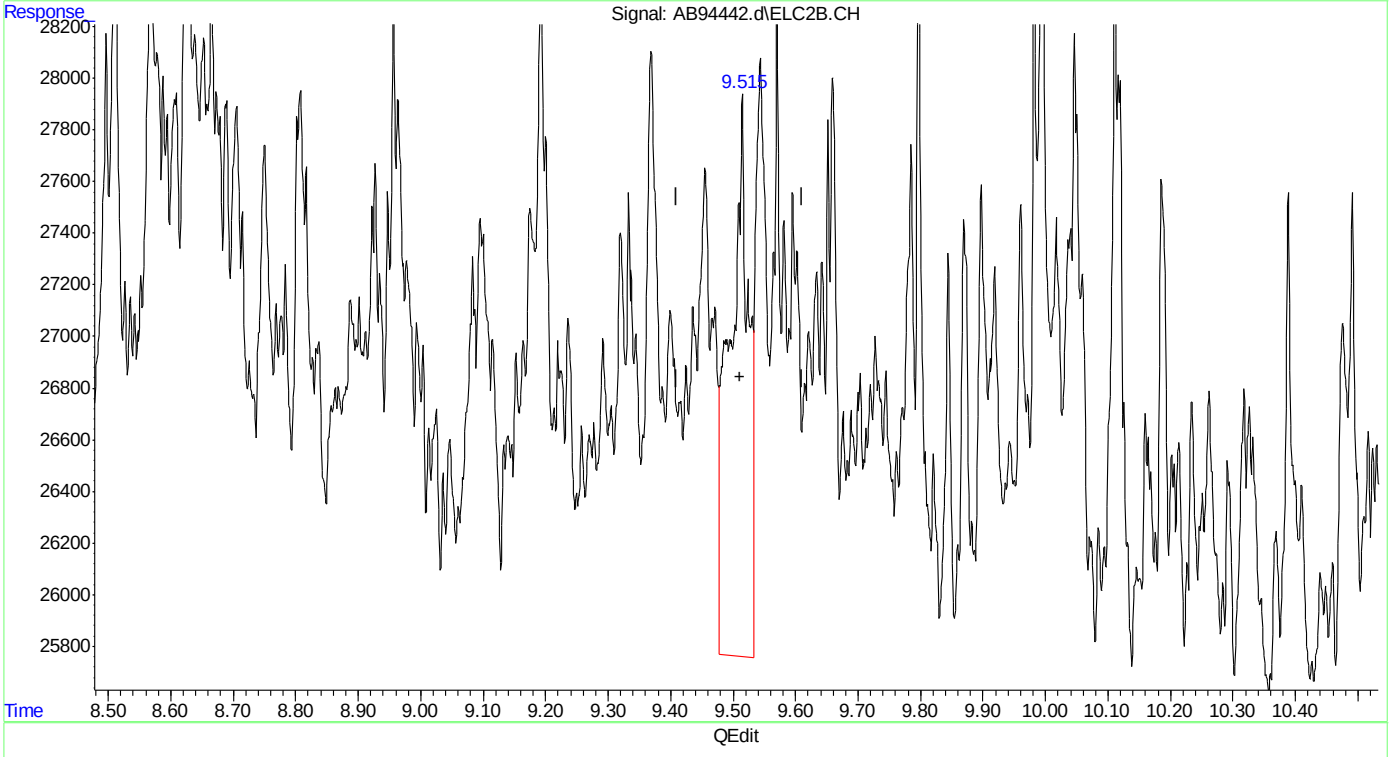
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.515min 0.089 ppb
response 44719

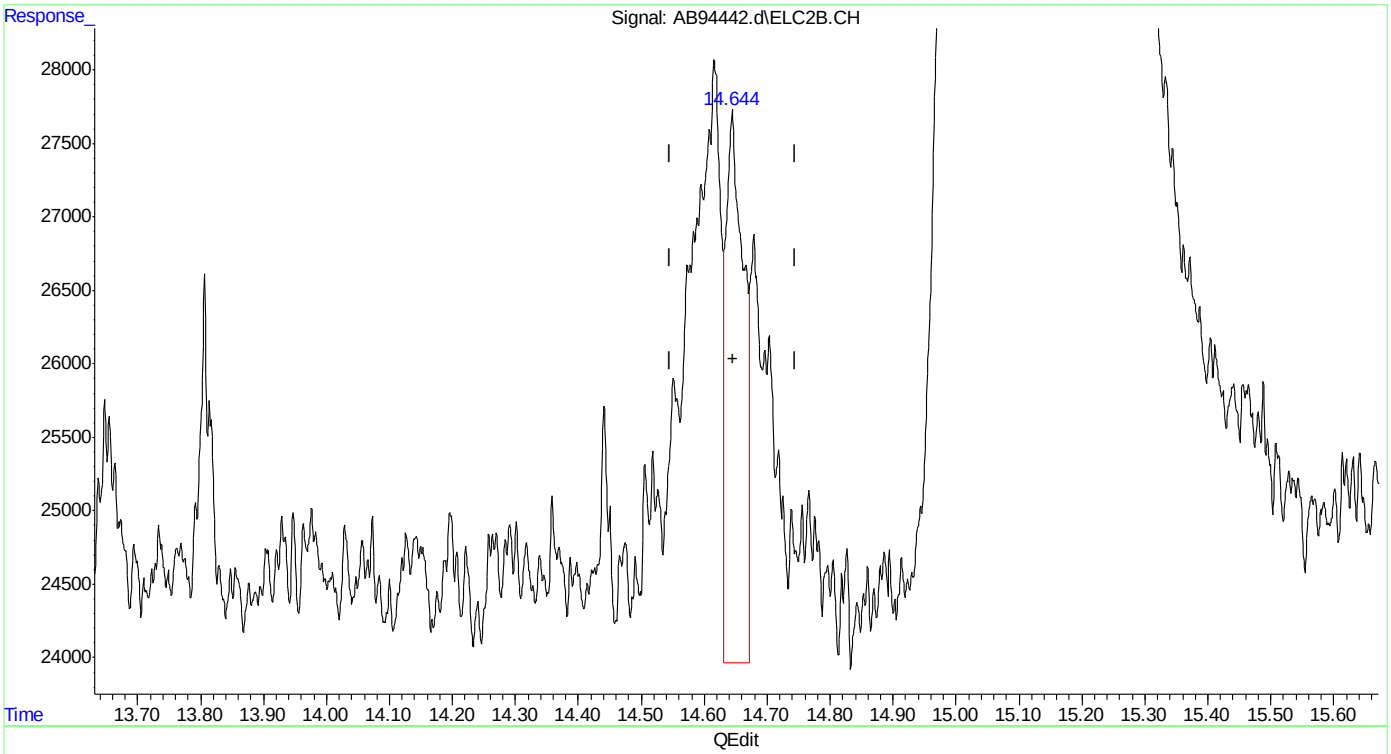
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.645min 0.056 ppb
response 73287

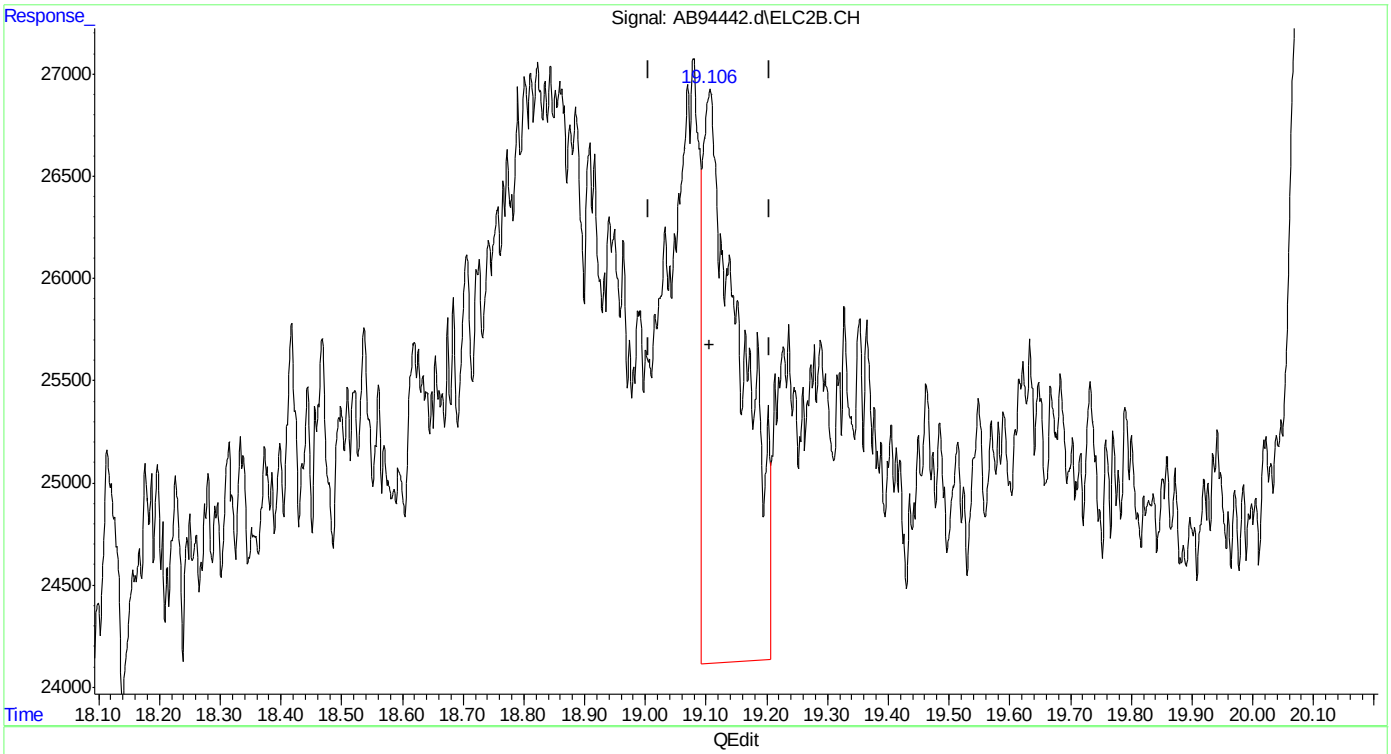
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:05:43 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.106min 0.105 ppb
response 120053

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:05:48 2016





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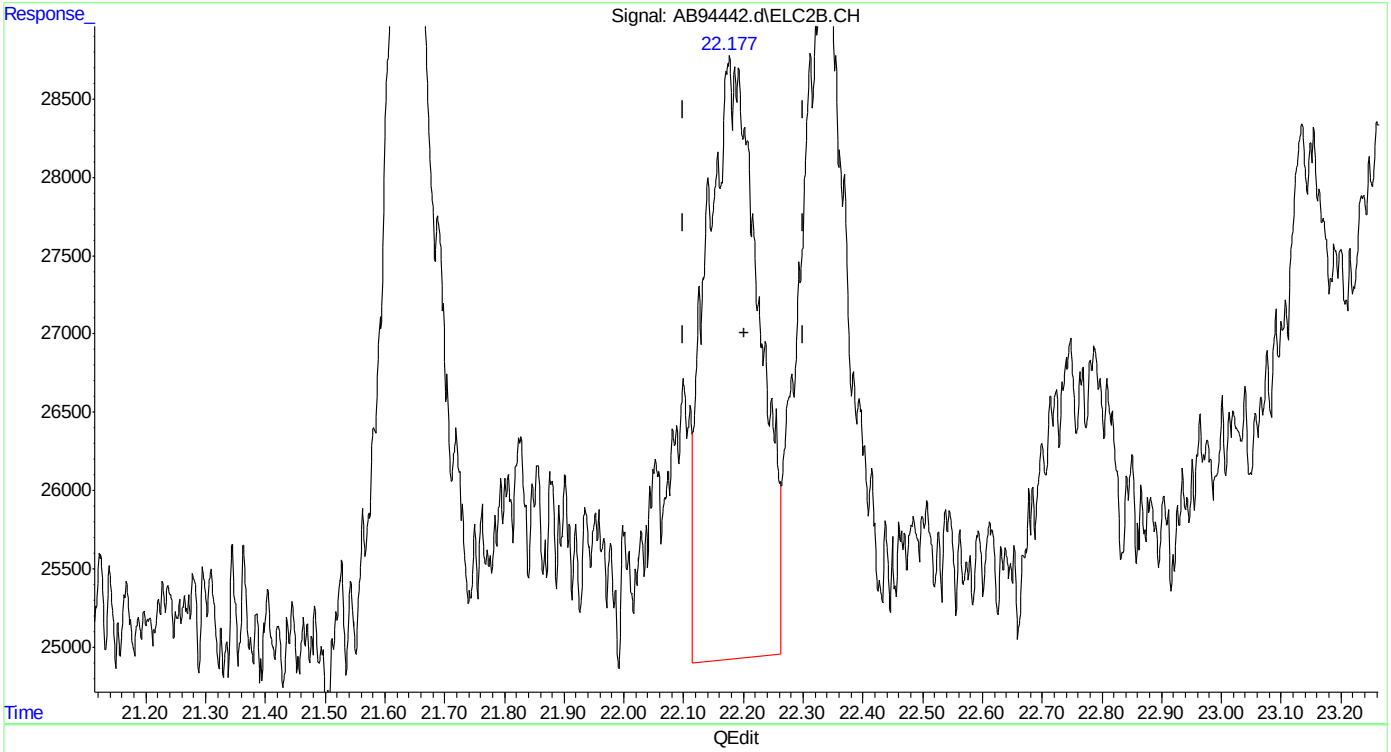
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2
22.175min 0.254 ppb
response 234956

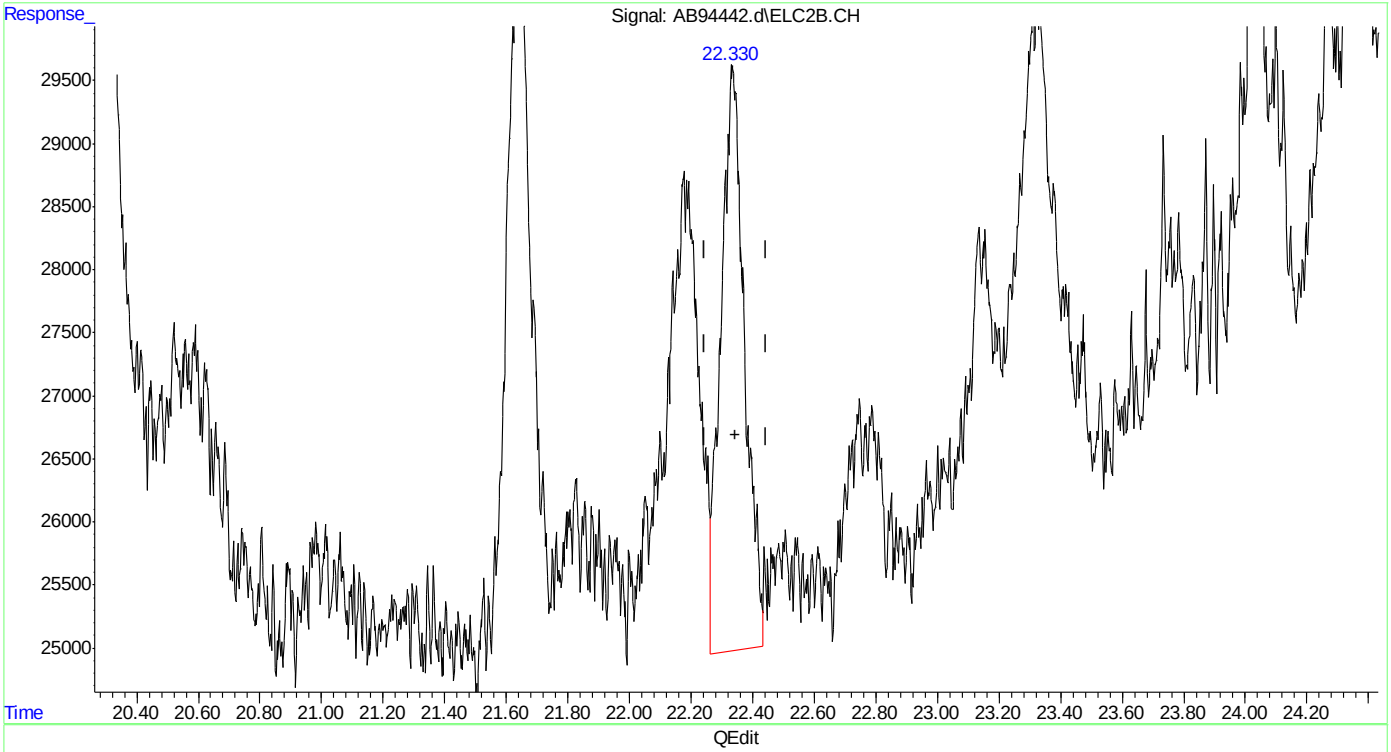
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:05:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2
22.334min 0.233 ppb
response 247581

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:06:04 2016





SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(21) o-xylene #2
23.134min 0.175 ppb
response 163402

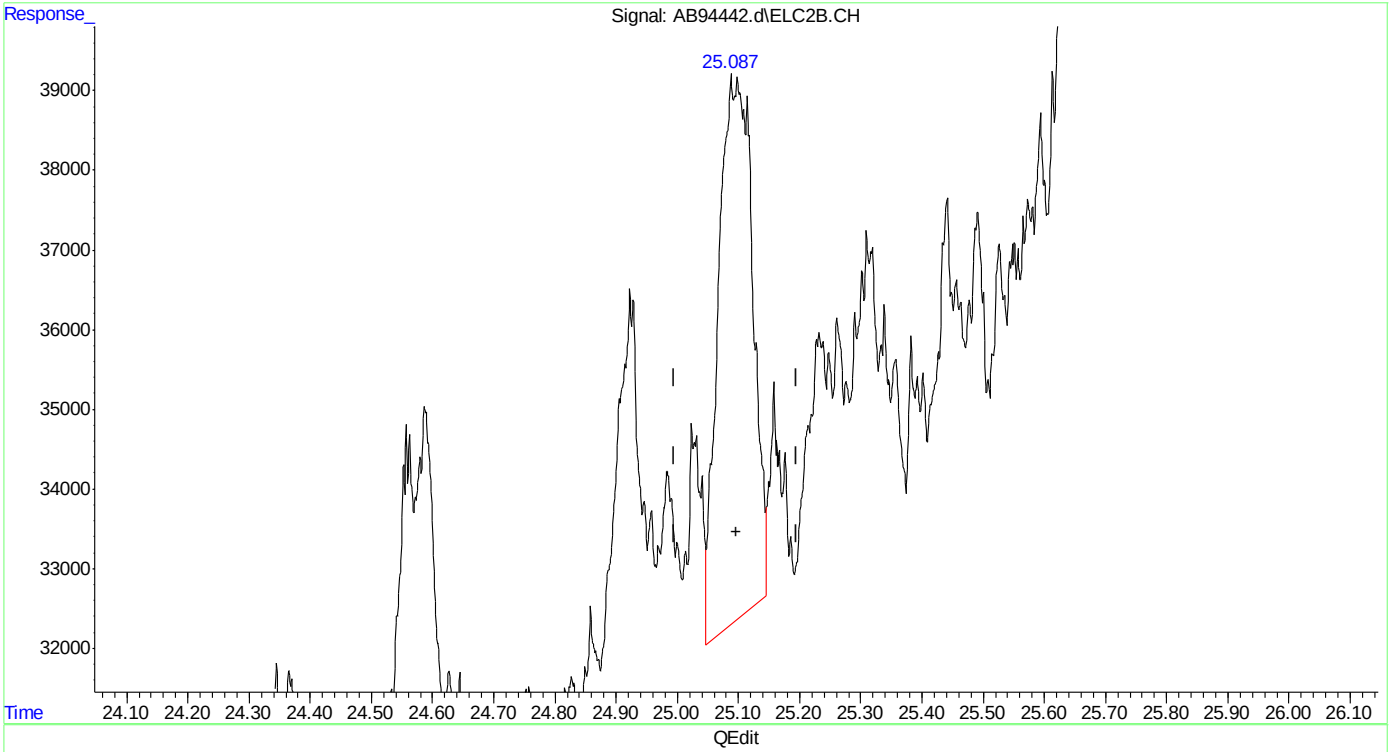
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:06:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.098min 0.278 ppb
response 265869

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:06:13 2016







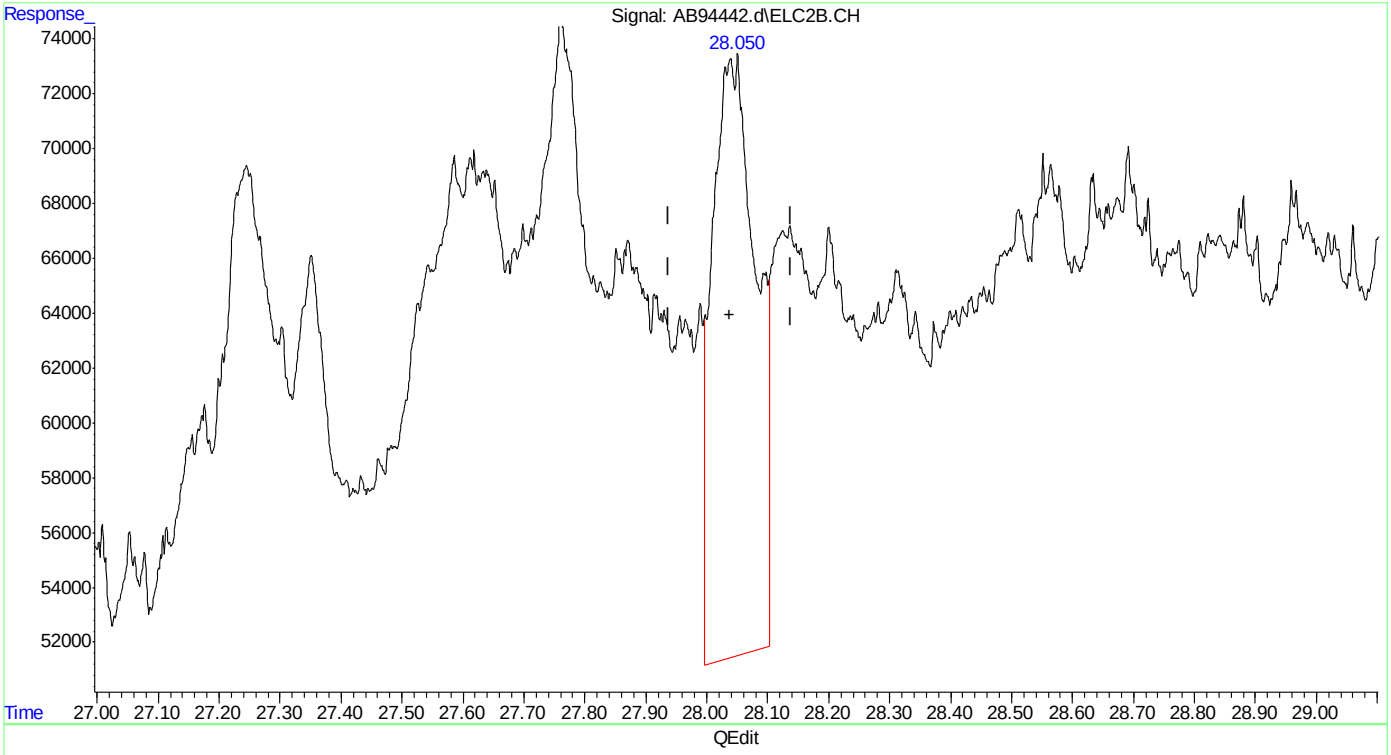
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.038min 1.505 ppb
response 1087956

(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94442.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 19:27:18
Operator : tonyf
Sample : mc46487-4,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 17 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.050min 0.438 ppb m
response 316545

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:06:30 2016





SGS ACCUTEST MC46487

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:09:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.130 | 19806810 | 45.001 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 90.00% | | |
| 6) s 2,3,4-trifluorotoluene | 20.187 | 17795610 | 43.409 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 86.82% | | |
| 16) s fluorobenzene #2 | 15.127 | 34851557 | 41.379 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 82.76% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.186 | 18196154 | 38.974 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 77.95% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 3149843 | 7.845 | ppb | m |
| 2) h rt7/10 | 8.720 | 647287 | 1.612 | ppb | m |
| 3) h rt10/13 | 13.870 | 3255145 | 8.107 | ppb | |
| 8) h rt20/25 | 21.870 | 14329683 | 22.872 | ppb | m |
| 24) naphthalene #2 | 28.055 | 159610 | 0.221 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 22293888 | 23.270 | ppb | m |

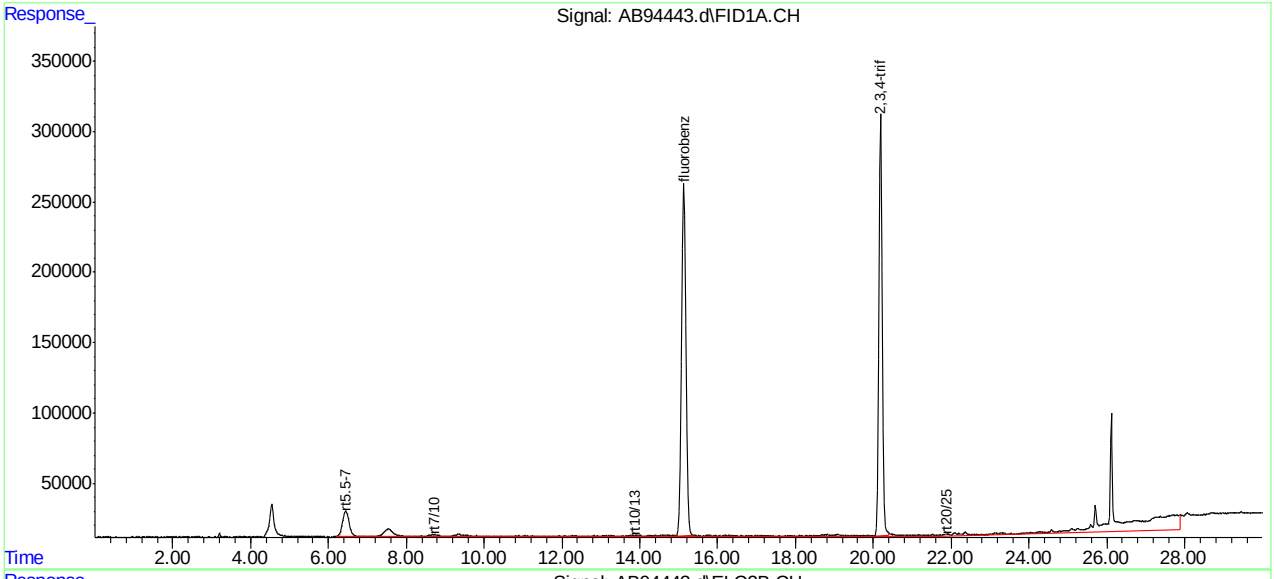
(f)=RT Delta > 1/2 Window (m)=manual int.

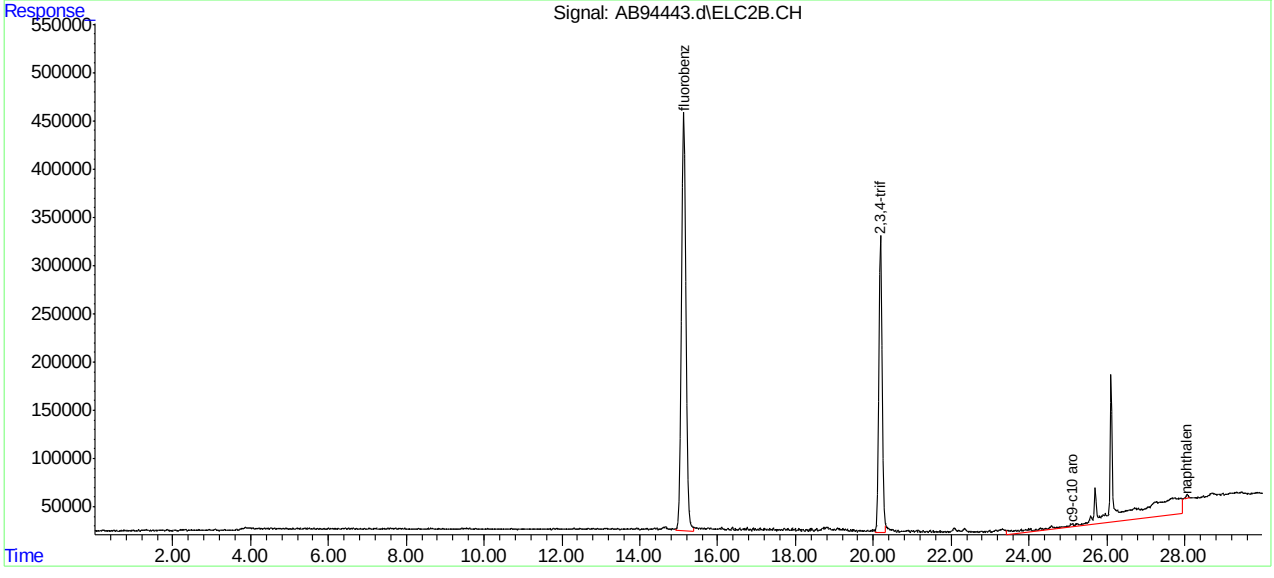
Quantitation Report (QT Reviewed)

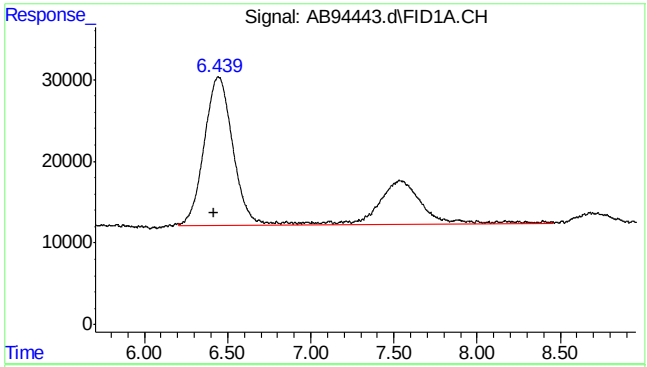
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:09:24 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

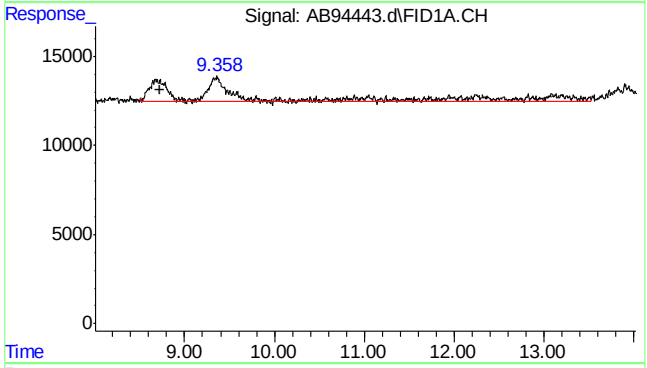




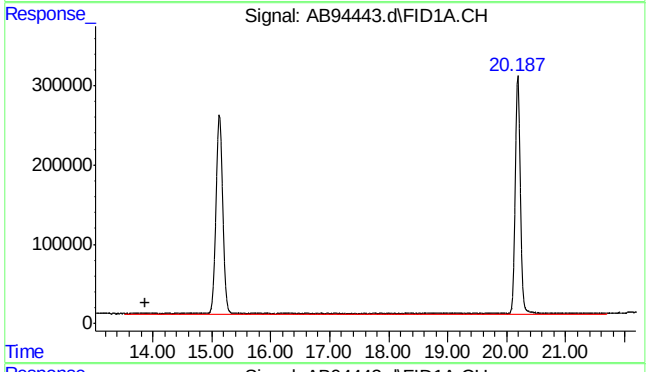

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 3149843
Conc: 7.85 ppb m



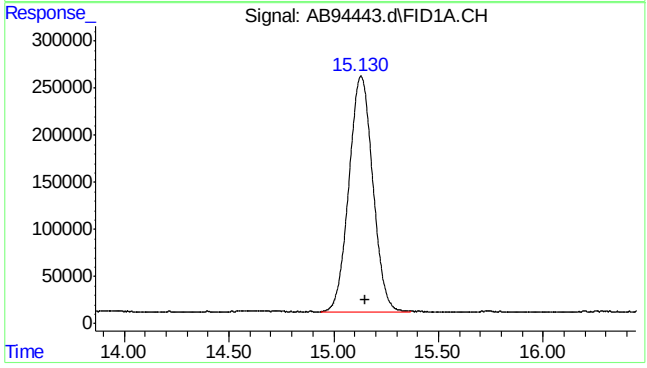

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 647287
Conc: 1.61 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3255145
Conc: 8.11 ppb



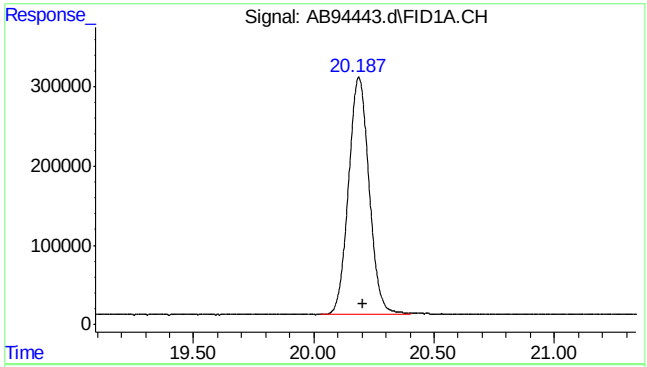

#4 fluorobenzene

R.T.: 15.130 min
Delta R.T.: -0.021 min
Response: 19806810
Conc: 45.00 ppb



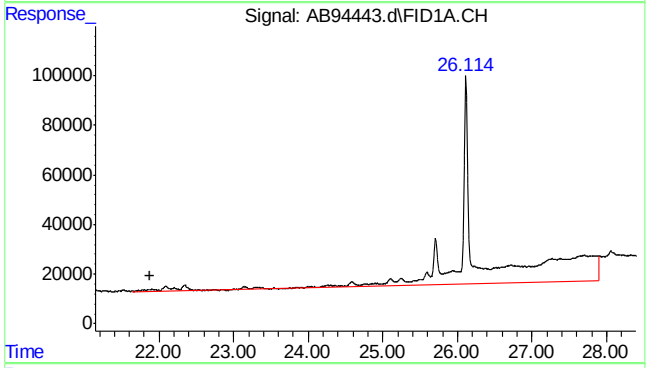


SGS ACCUTEST MC46487



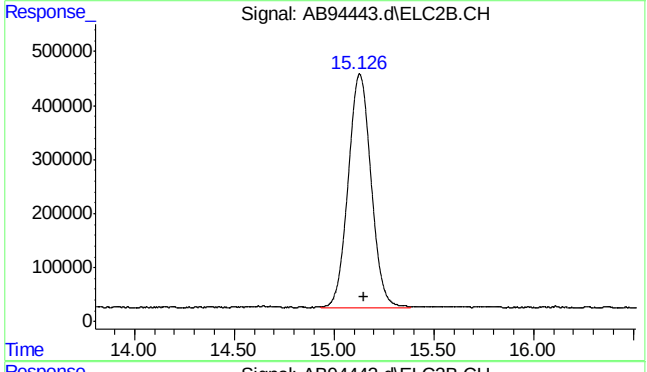

#6 2,3,4-trifluorotoluene

R.T.: 20.187 min
Delta R.T.: -0.018 min
Response: 17795610
Conc: 43.41 ppb



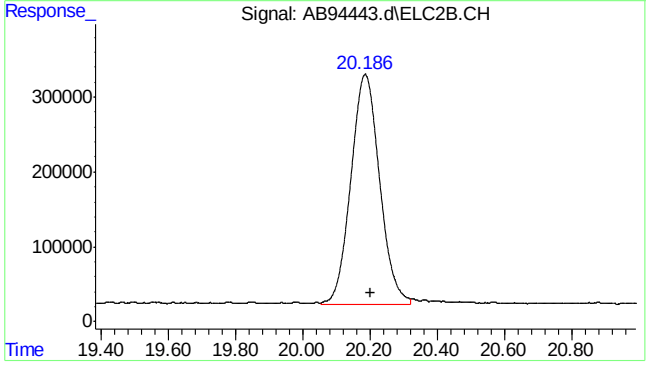

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 14329683
Conc: 22.87 ppb m



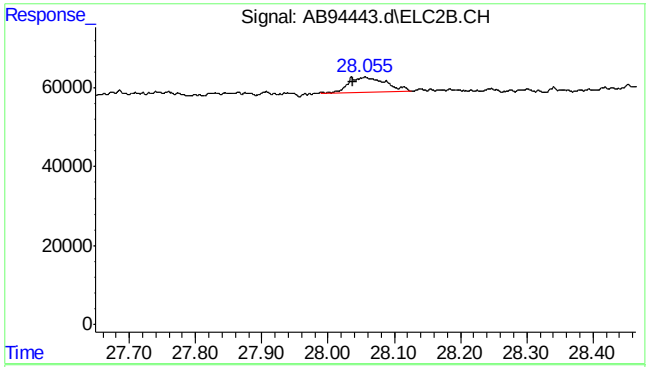

#16 fluorobenzene #2

R.T.: 15.127 min
Delta R.T.: -0.021 min
Response: 34851557
Conc: 41.38 ppb



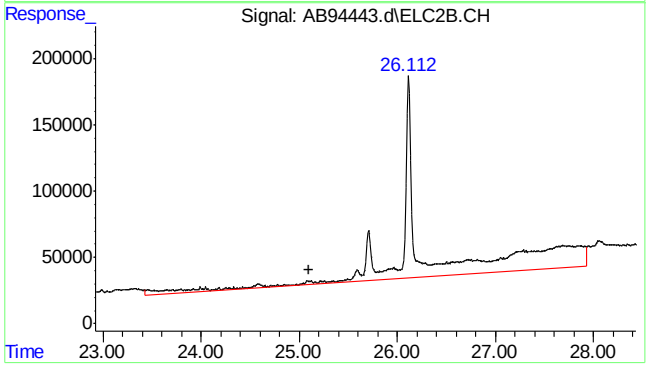

#18 2,3,4-trifluorotoluene #2

R.T.: 20.186 min
Delta R.T.: -0.017 min
Response: 18196154
Conc: 38.97 ppb




#24 naphthalene #2

```
      R.T.:   28.055 min
Delta R.T.:    0.017 min
  Response:    159610
      Conc:   0.22 ppb m
```




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

```
      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response:  22293888
      Conc:  23.27 ppb m
```

7.1.5

7



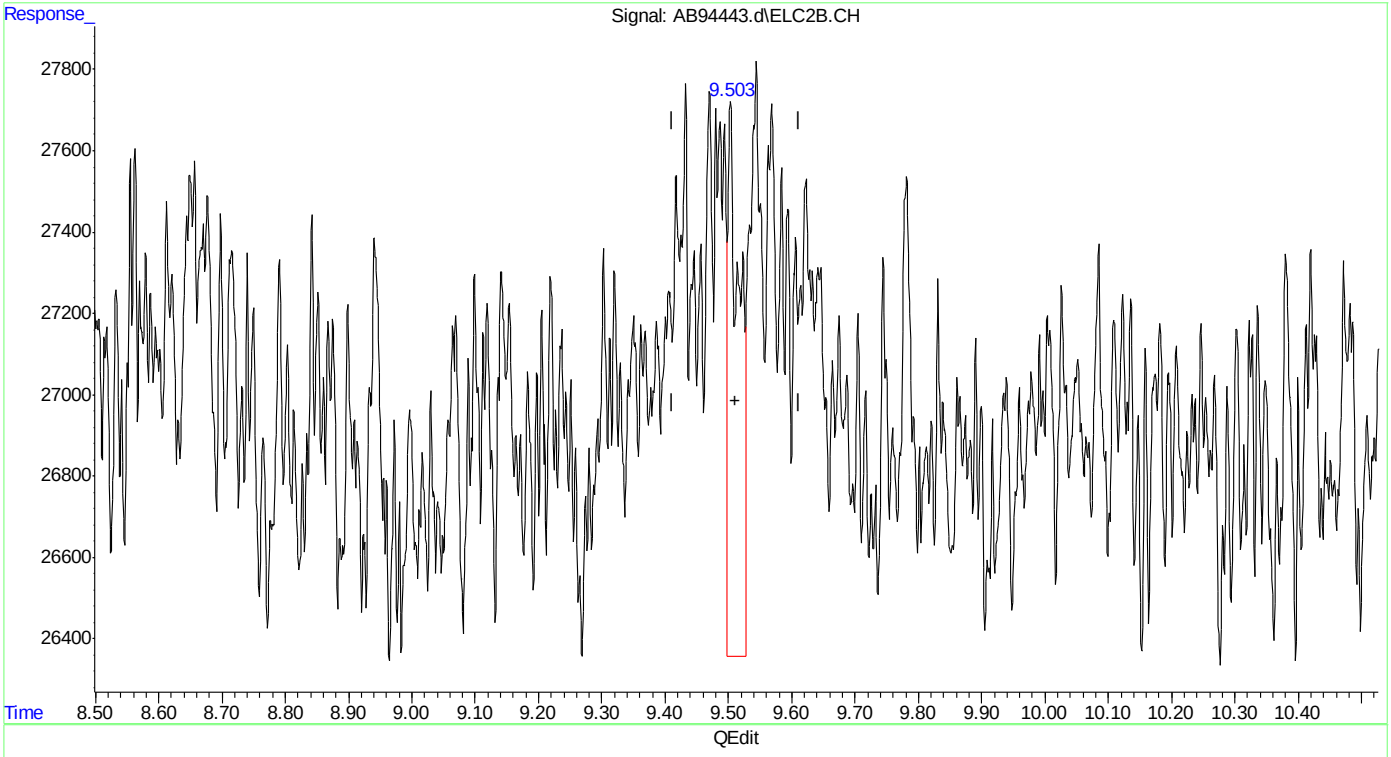
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.503min 0.034 ppb
response 17347

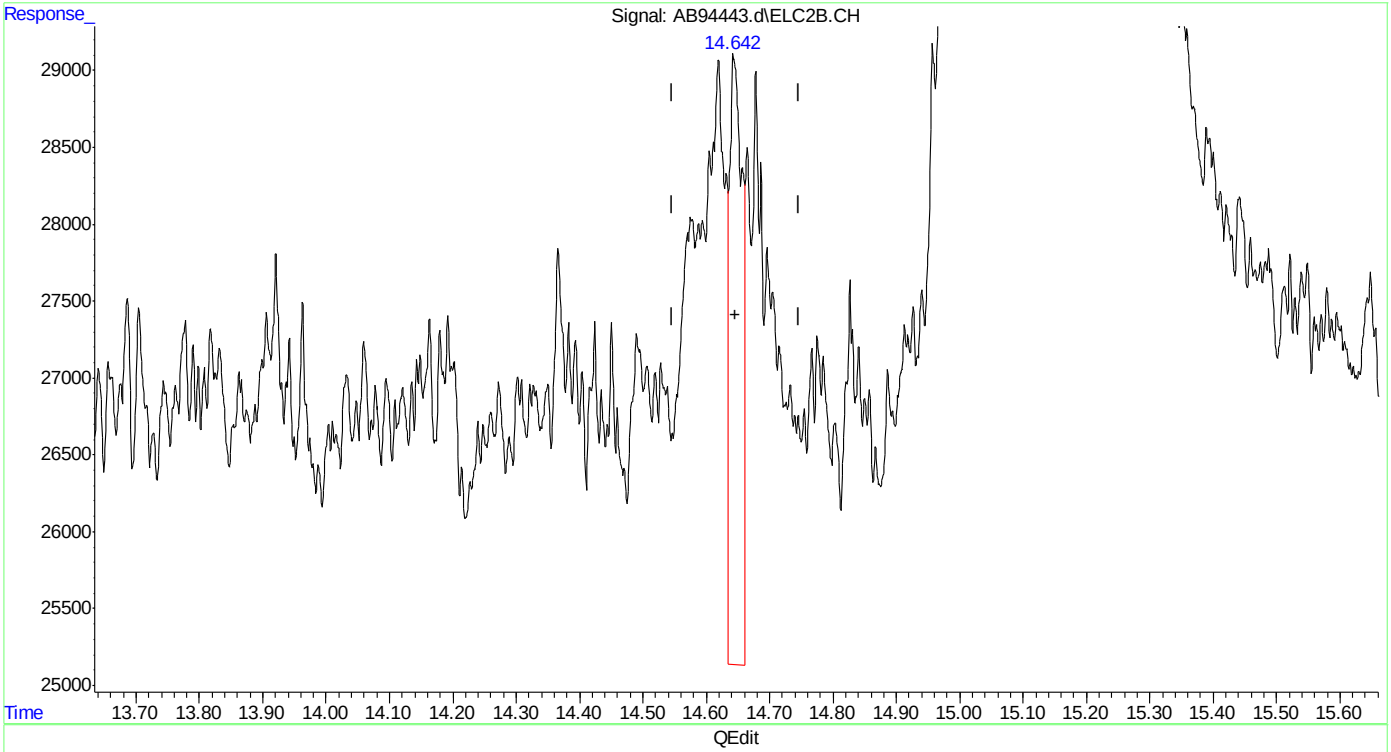
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:07:23 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.644min 0.042 ppb
response 54945

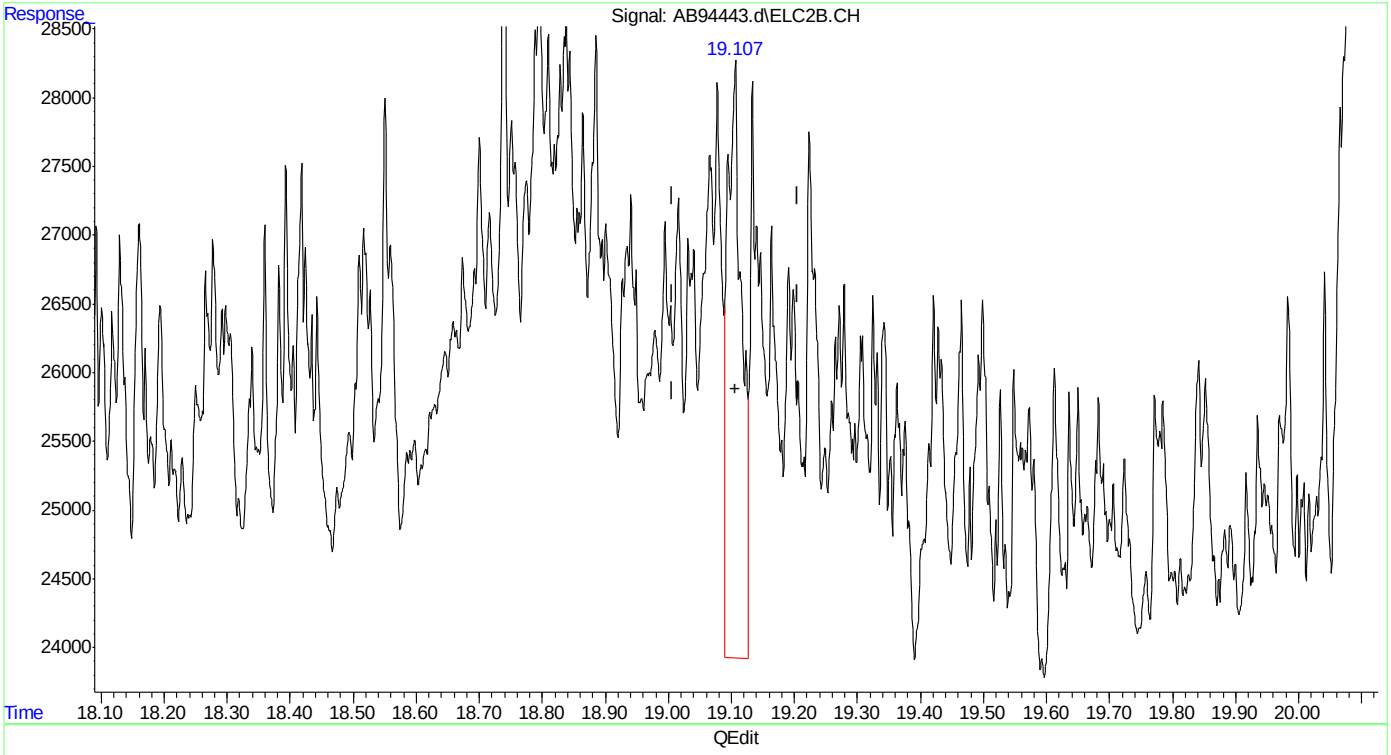
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.106min 0.060 ppb
response 69086

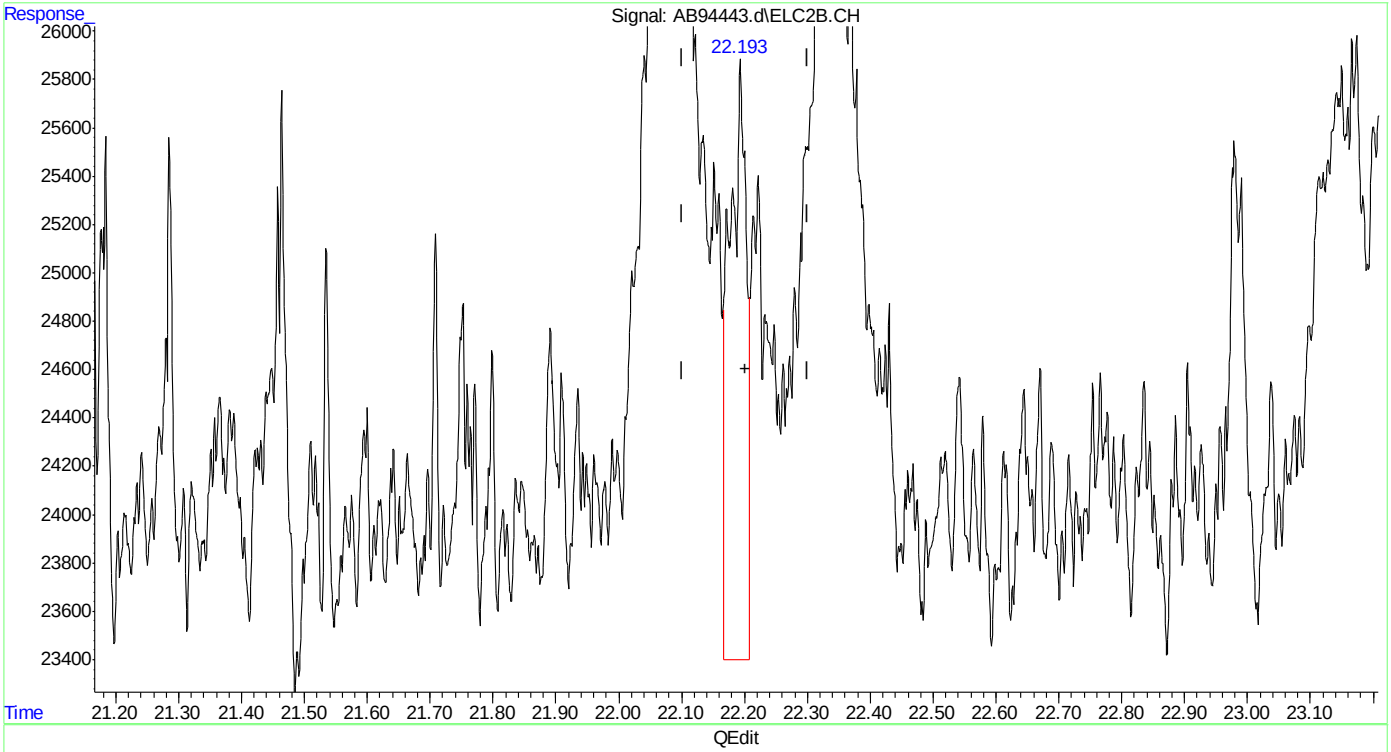
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:08:41 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2
22.195min 0.051 ppb
response 47329

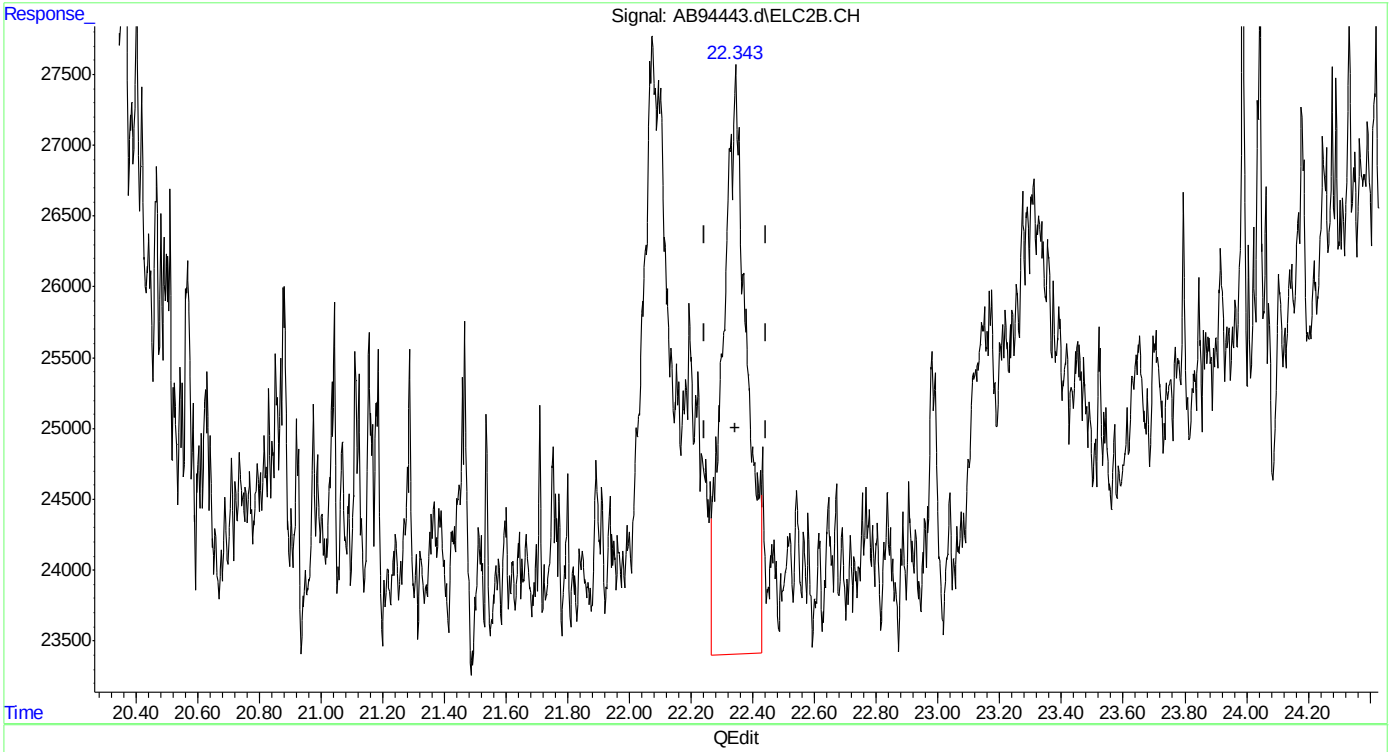
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2
22.343min 0.207 ppb
response 219399

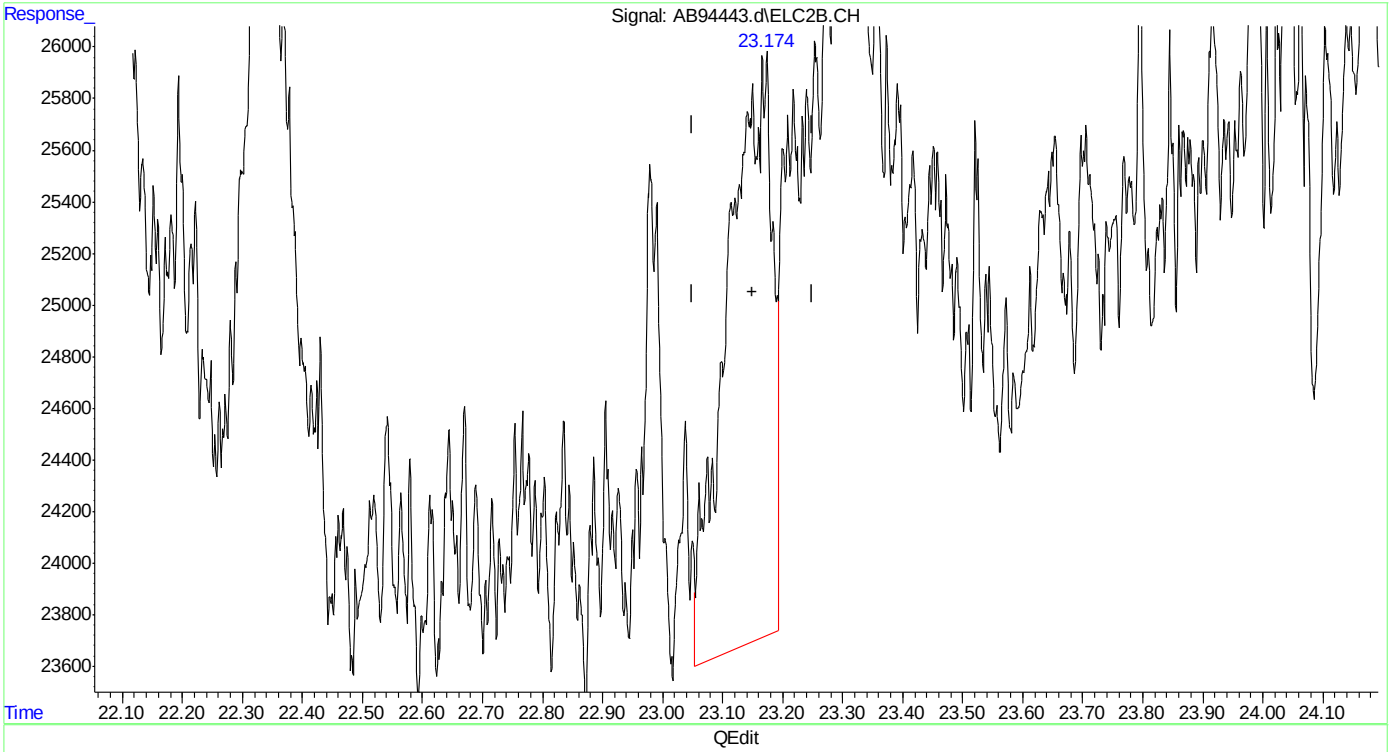
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:08:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.171min 0.126 ppb
response 117275

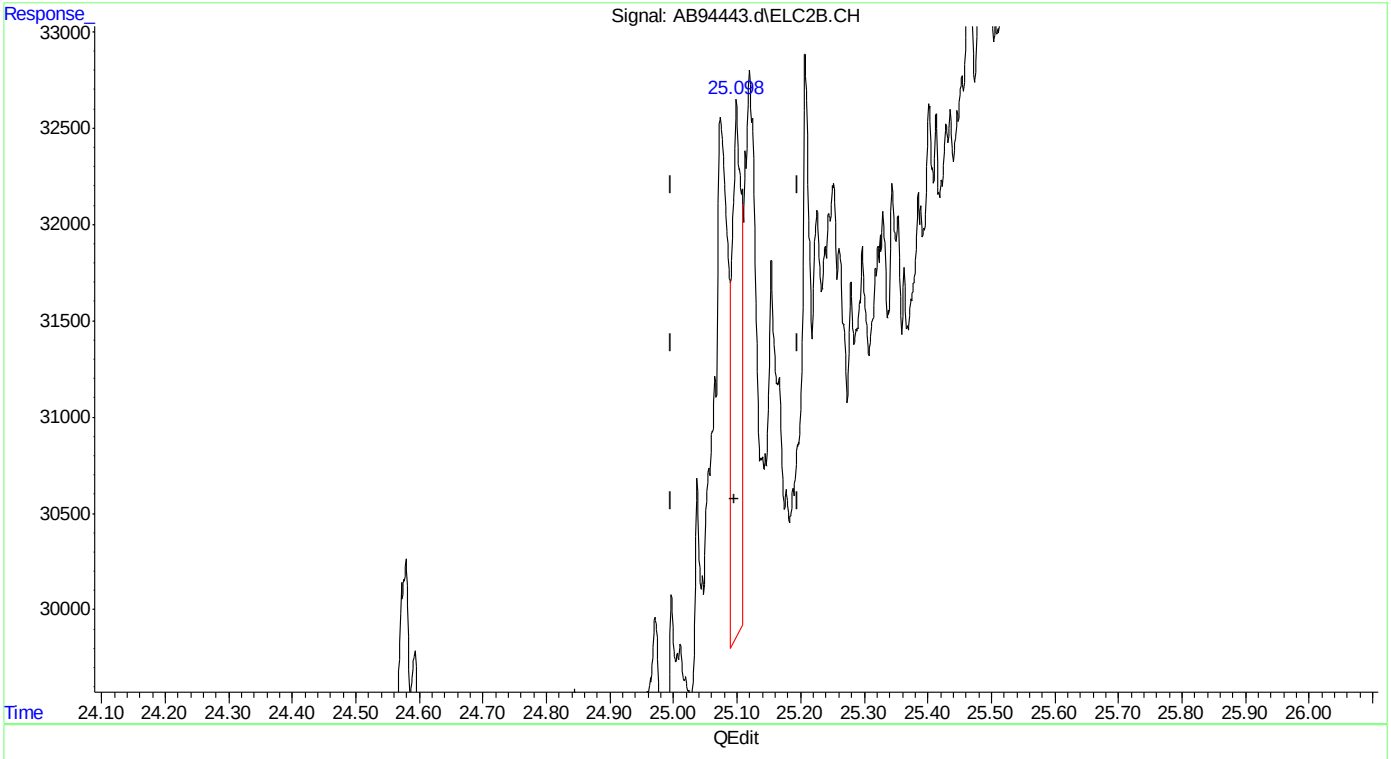
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:02 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.100min 0.030 ppb
response 28266

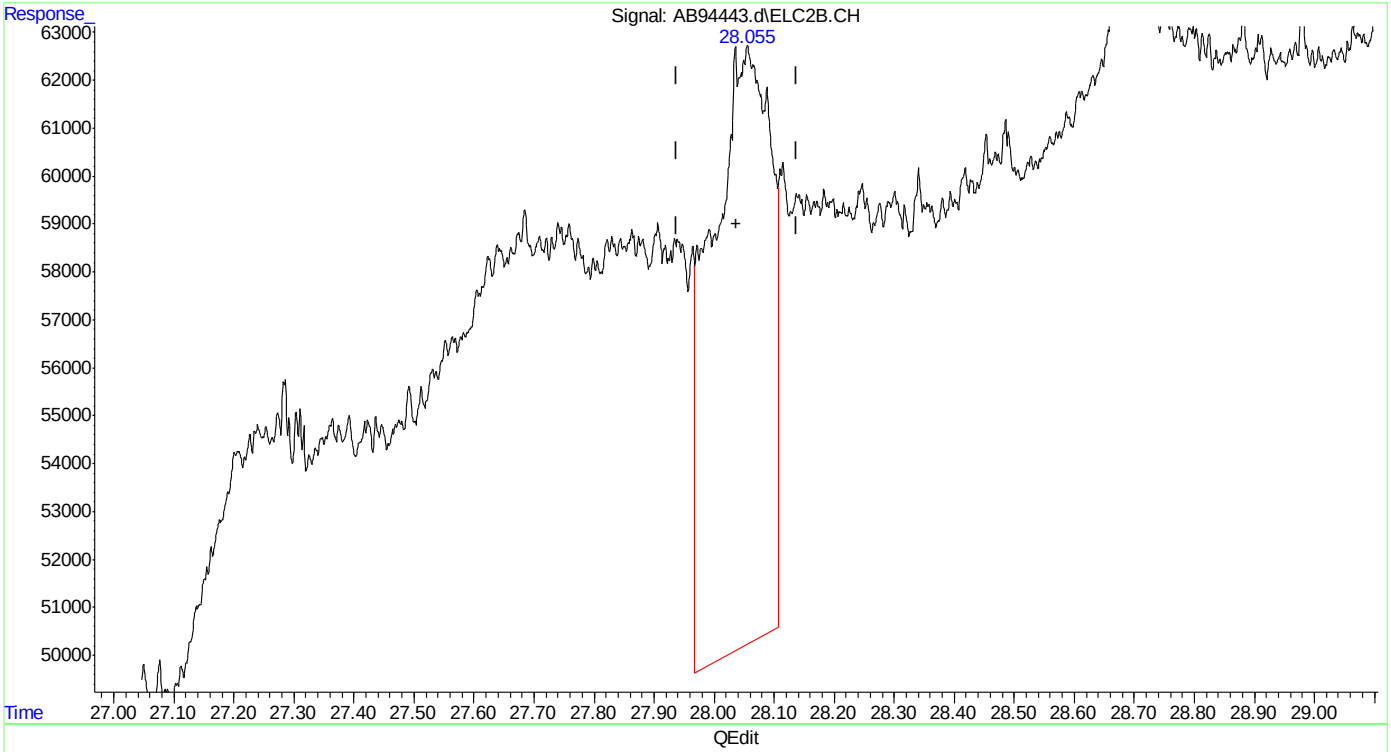
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:07 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.056min 1.194 ppb
response 862884

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94443.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:04:48
Operator : tonyf
Sample : mc46487-5,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 18 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:28 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.055min 0.221 ppb m
response 159610

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:18 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:10:47 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.131 | 20082686 | 45.628 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 91.26% | | |
| 6) s 2,3,4-trifluorotoluene | 20.188 | 17837143 | 43.510 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 87.02% | | |
| 16) s fluorobenzene #2 | 15.129 | 35326015 | 41.943 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 83.89% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.186 | 18584326 | 39.806 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 79.61% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 618336 | 1.540 | ppb | m |
| 2) h rt7/10 | 8.720 | 719845 | 1.793 | ppb | m |
| 3) h rt10/13 | 13.870 | 4046685 | 10.079 | ppb | |
| 8) h rt20/25 | 21.870 | 13511266 | 21.566 | ppb | |
| 24) naphthalene #2 | 28.059 | 144806 | 0.200 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 17817209 | 18.597 | ppb | m |

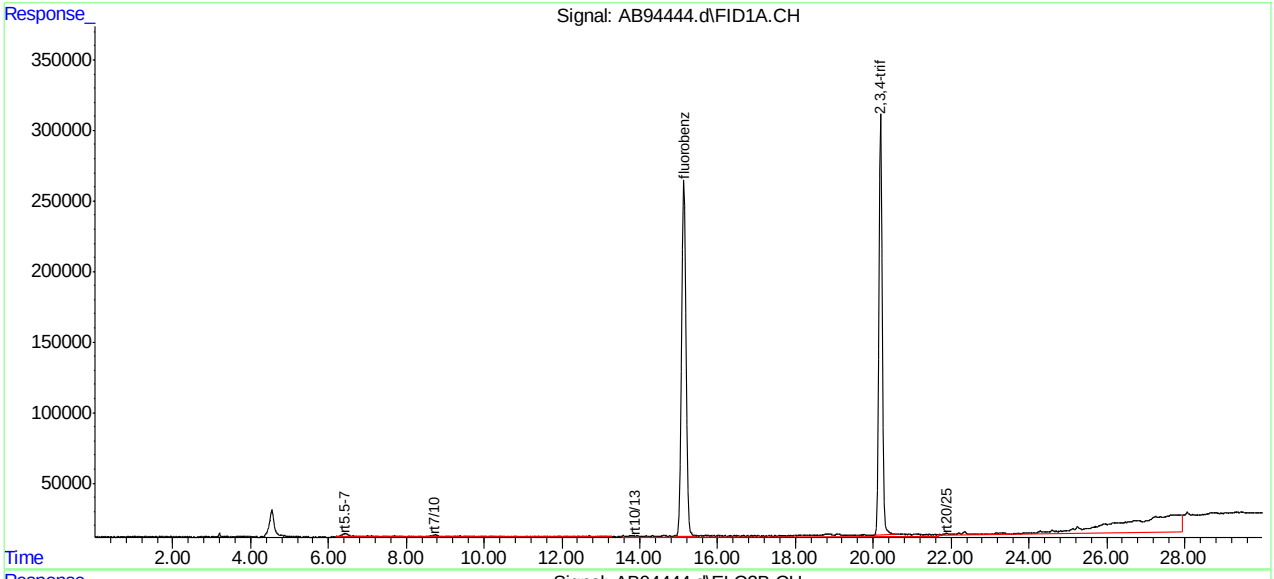
(f)=RT Delta > 1/2 Window (m)=manual int.

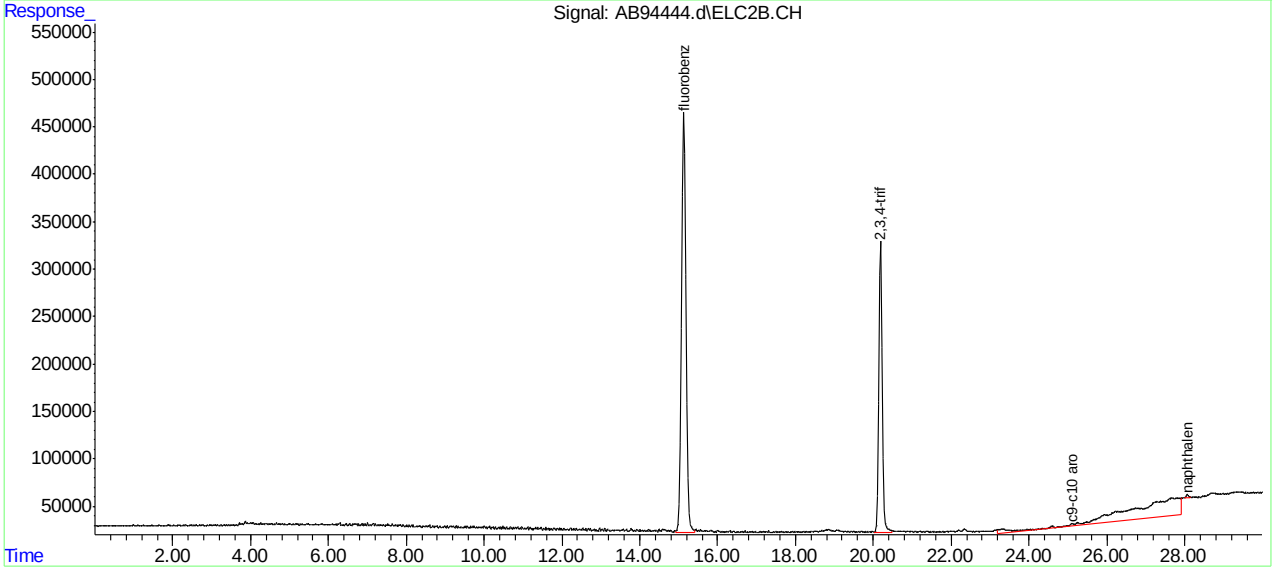
Quantitation Report (QT Reviewed)

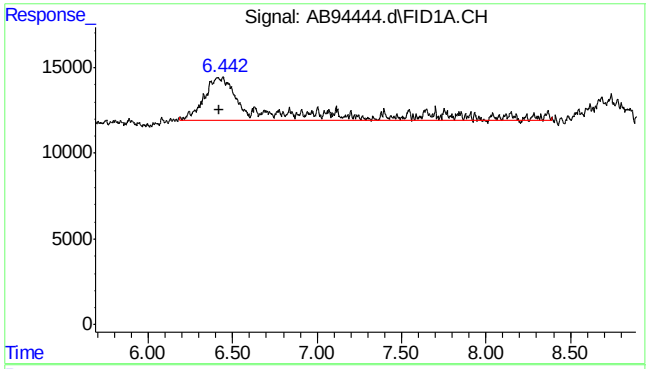
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:10:47 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

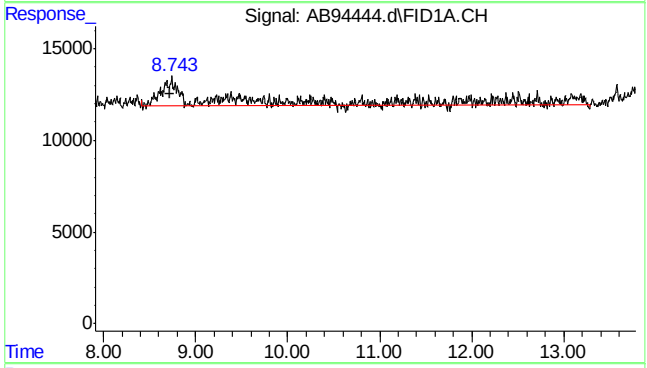




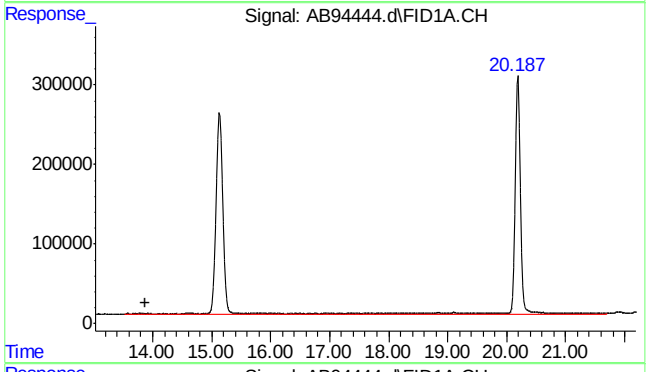

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 618336
Conc: 1.54 ppb m



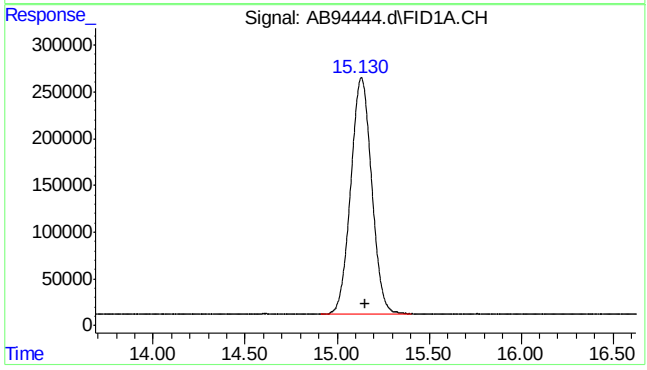

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 719845
Conc: 1.79 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 4046685
Conc: 10.08 ppb




#4 fluorobenzene

R.T.: 15.131 min
Delta R.T.: -0.020 min
Response: 20082686
Conc: 45.63 ppb



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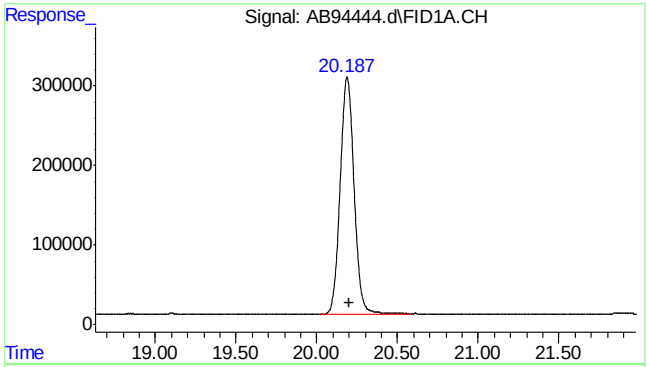
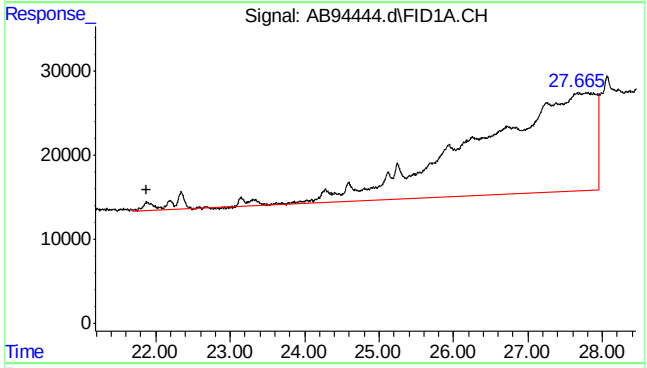


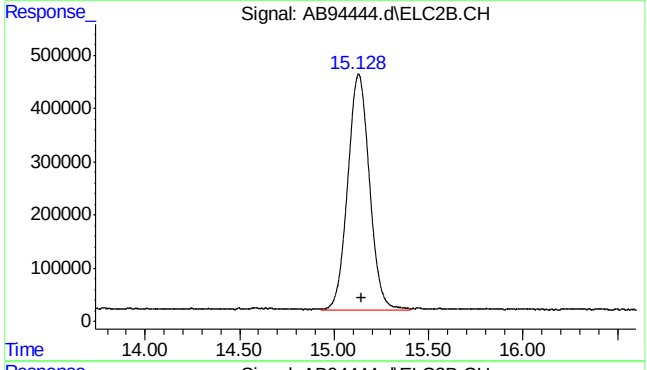

#6 2,3,4-trifluorotoluene

R.T.: 20.188 min
Delta R.T.: -0.018 min
Response: 17837143
Conc: 43.51 ppb



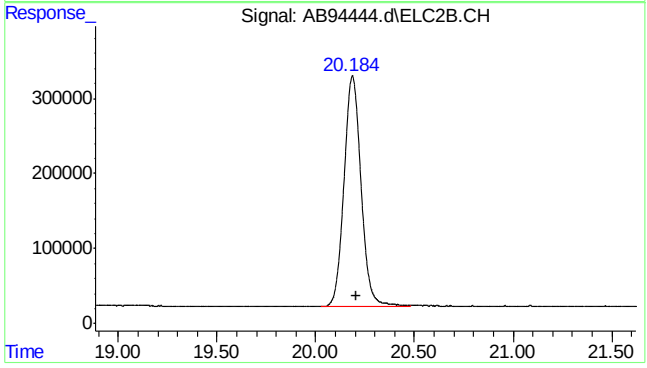

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 13511266
Conc: 21.57 ppb



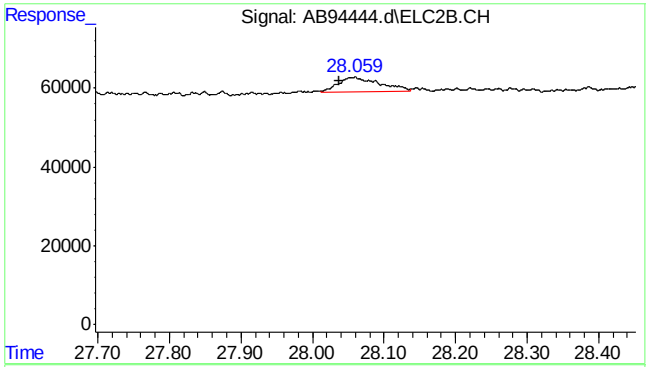

#16 fluorobenzene #2

R.T.: 15.129 min
Delta R.T.: -0.019 min
Response: 35326015
Conc: 41.94 ppb



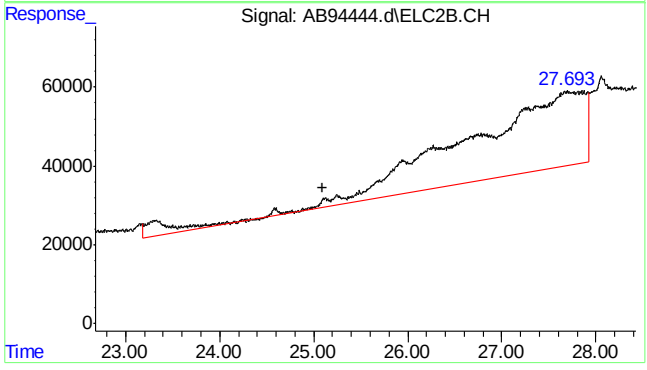

#18 2,3,4-trifluorotoluene #2

R.T.: 20.186 min
Delta R.T.: -0.017 min
Response: 18584326
Conc: 39.81 ppb




#24 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.021 min
Response: 144806
Conc: 0.20 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 17817209
Conc: 18.60 ppb m

7.1.6

7



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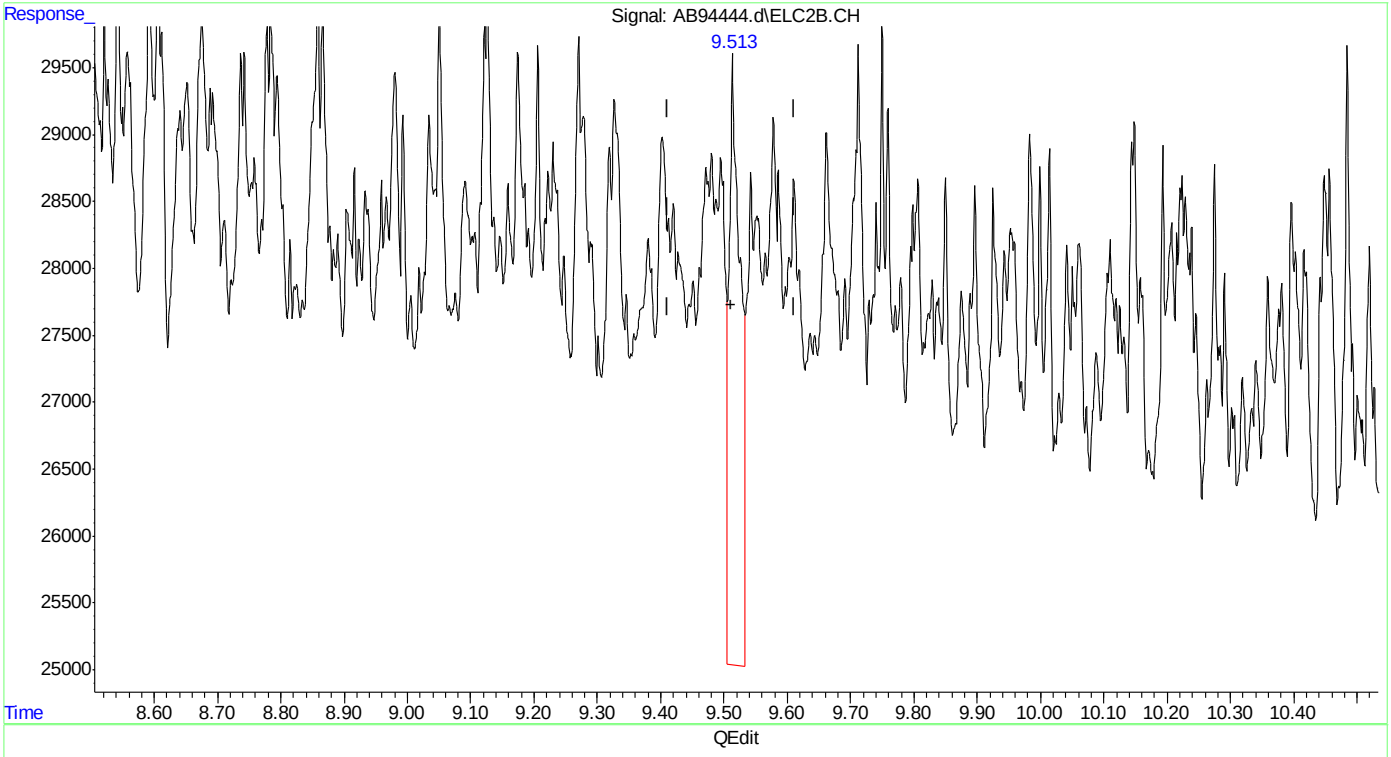
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.514min 0.112 ppb
response 56258

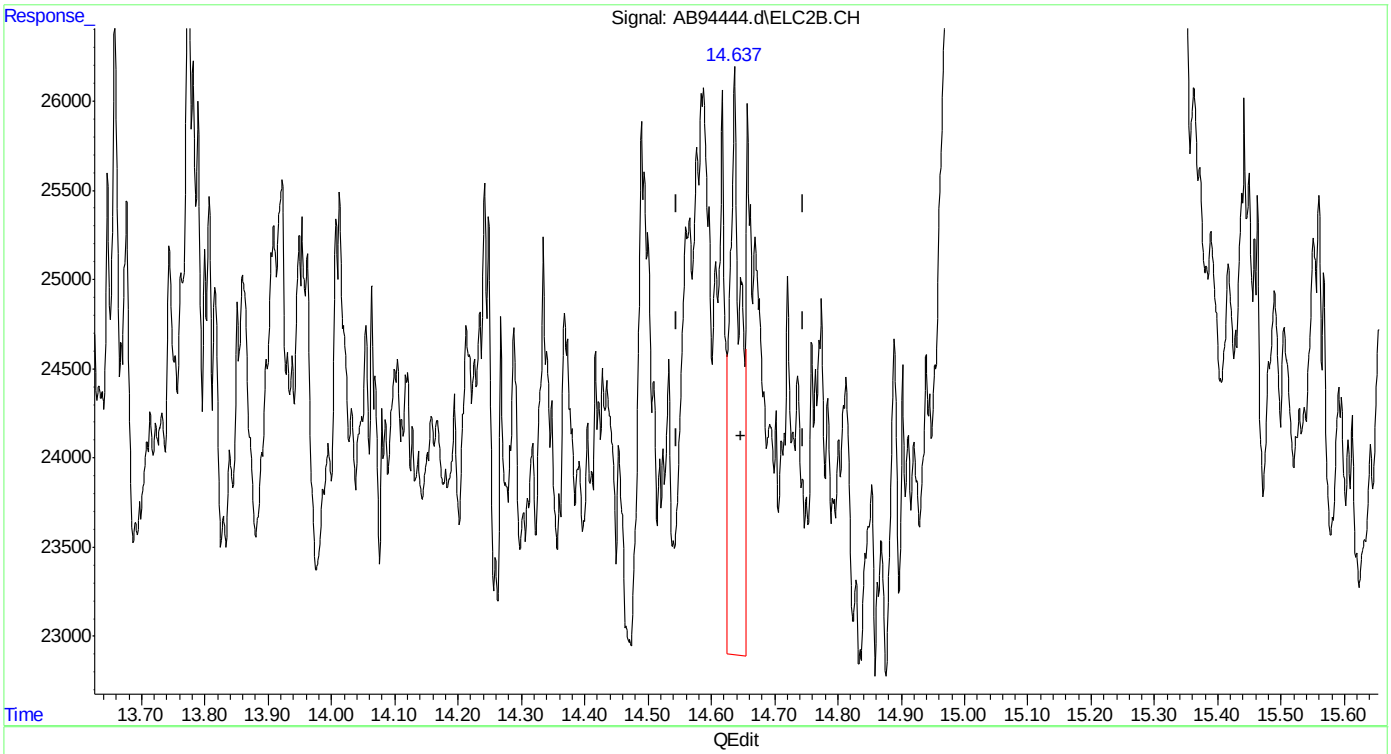
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:54 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.637min 0.029 ppb
response 37457

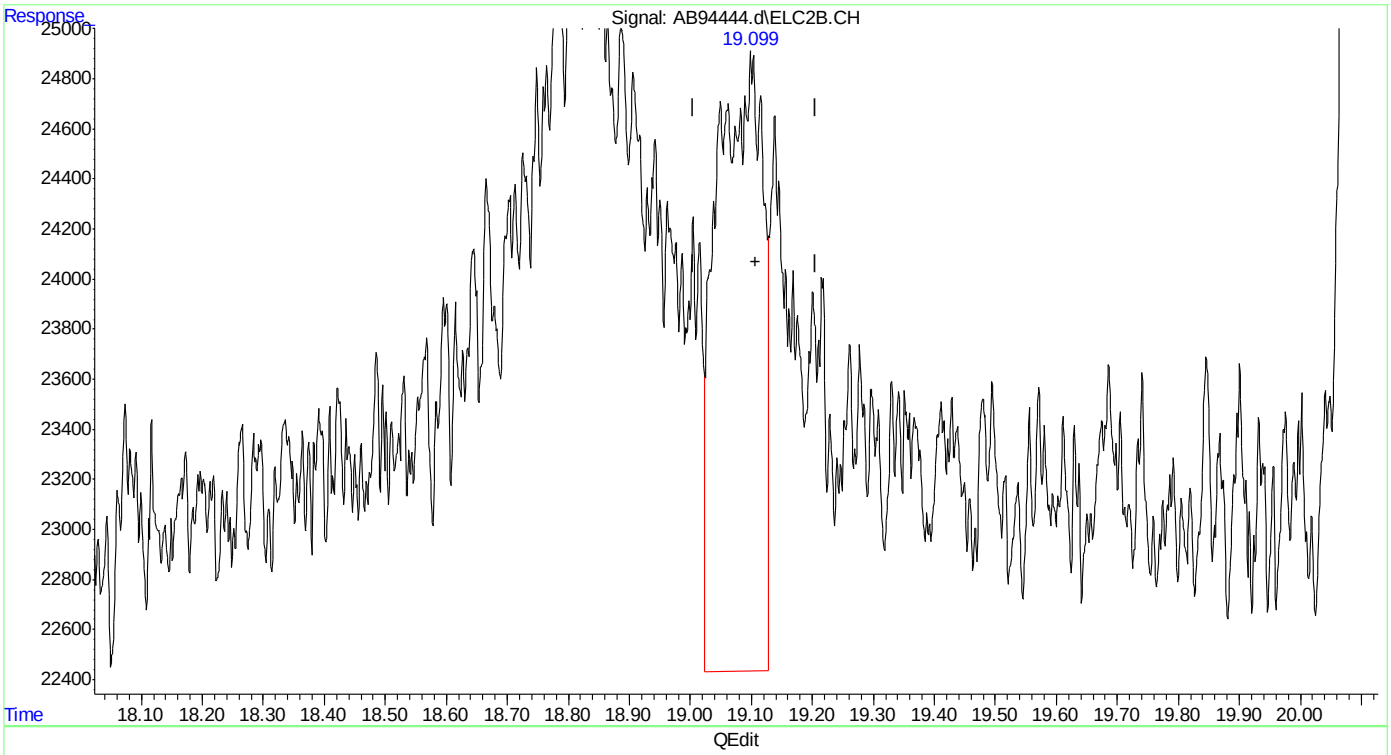
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:09:58 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.101min 0.112 ppb
response 128513

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:03 2016







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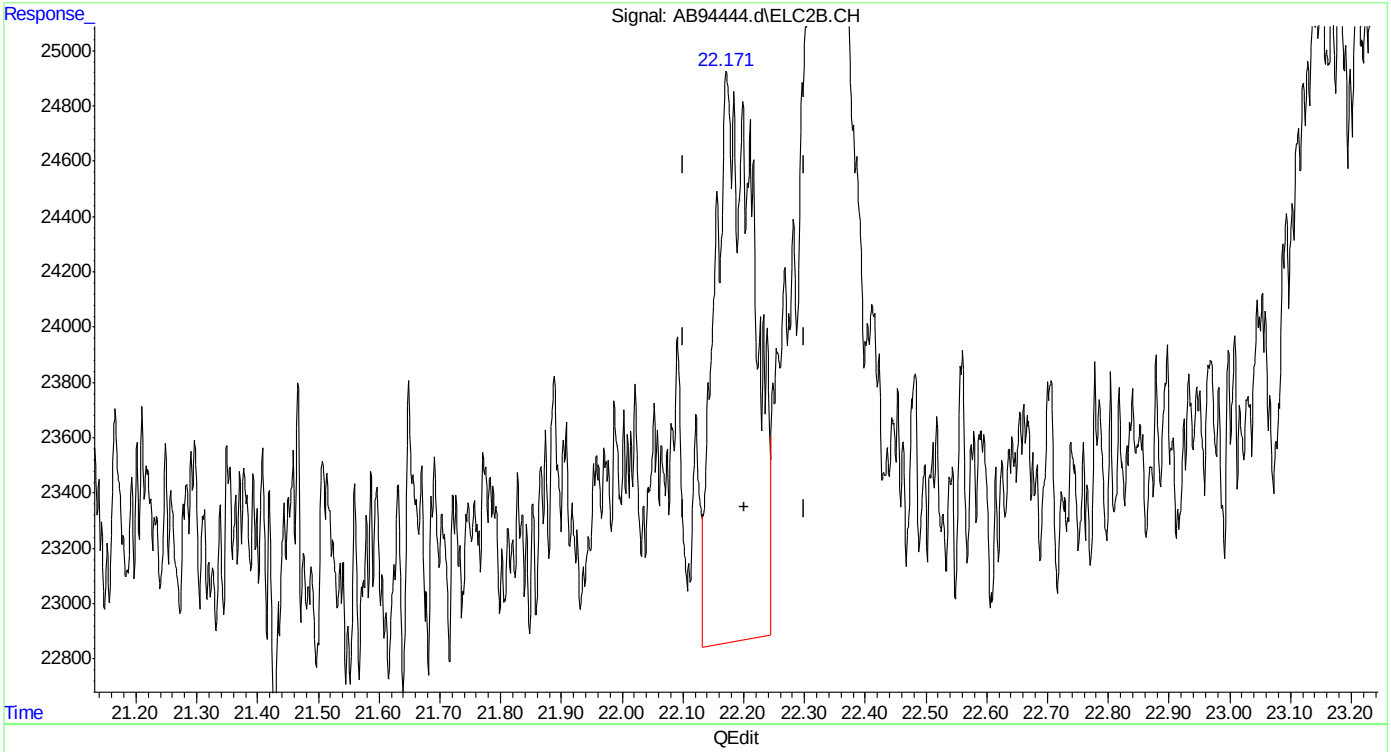
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2
22.173min 0.101 ppb
response 93448

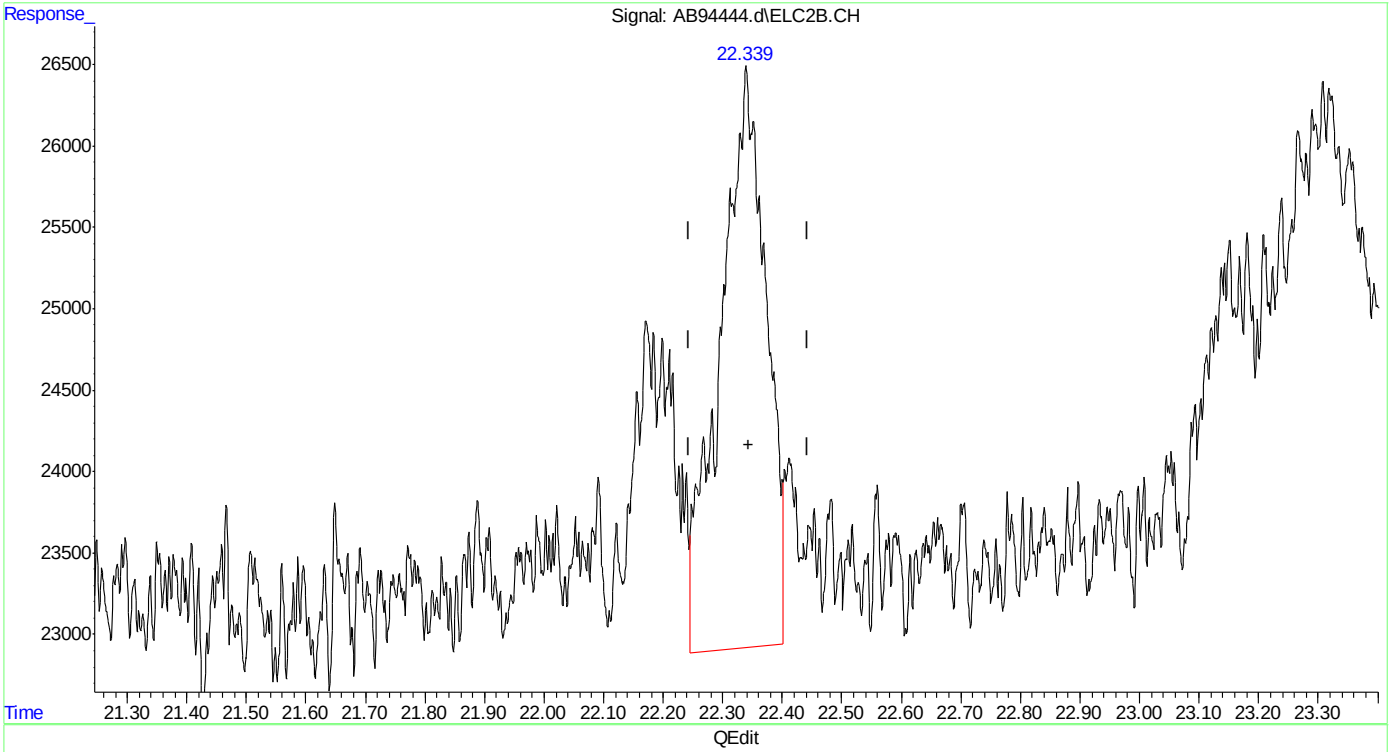
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:08 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2
22.340min 0.180 ppb
response 190600

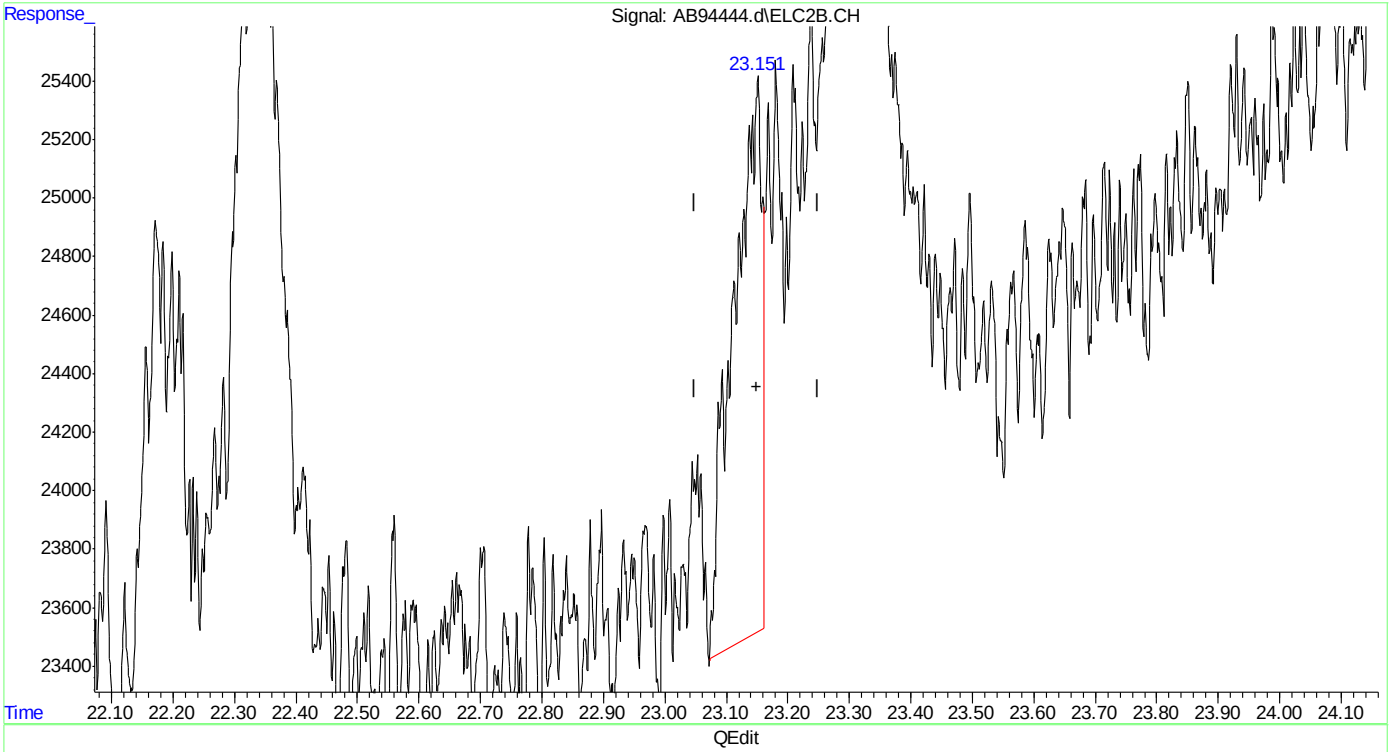
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:12 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.150min 0.064 ppb
response 60015

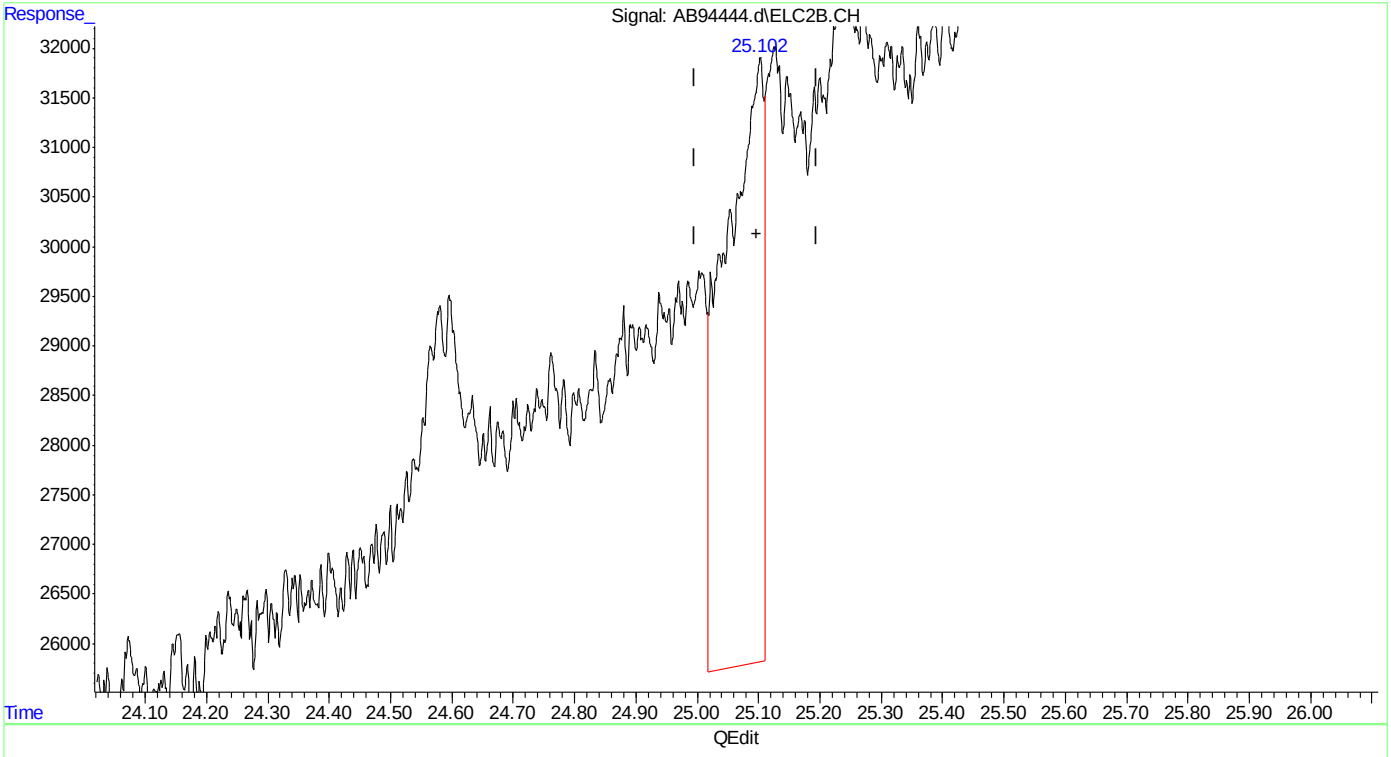
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:16 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.102min 0.278 ppb
response 266184

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:21 2016







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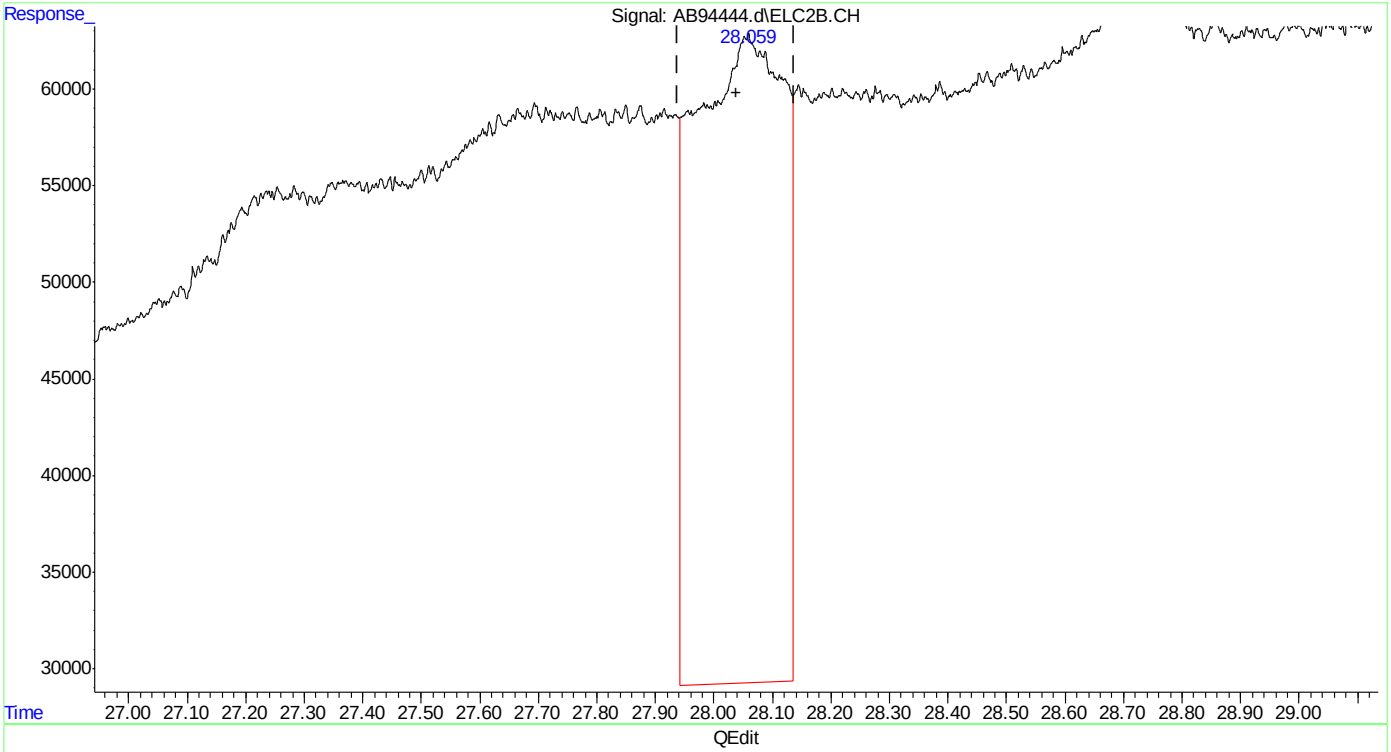
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.057min 5.003 ppb
response 3616761

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94444.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 20:43:06
Operator : tonyf
Sample : mc46487-6,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 19 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:32 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(24) naphthalene #2
28.059min 0.200 ppb m
response 144806

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:10:42 2016





SGS ACCUTEST MC46487

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:11:56 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.131 | 20026521 | 45.500 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 91.00% | | |
| 6) s 2,3,4-trifluorotoluene | 20.188 | 17947131 | 43.779 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 87.56% | | |
| 16) s fluorobenzene #2 | 15.128 | 34389419 | 40.831 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 81.66% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.186 | 18042667 | 38.645 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 77.29% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 1011757 | 2.520 | ppb | m |
| 2) h rt7/10 | 8.720 | 629585 | 1.568 | ppb | m |
| 3) h rt10/13 | 13.870 | 2971141 | 7.400 | ppb | |
| 8) h rt20/25 | 21.870 | 14005538 | 22.355 | ppb | |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 19420438 | 20.271 | ppb | m |

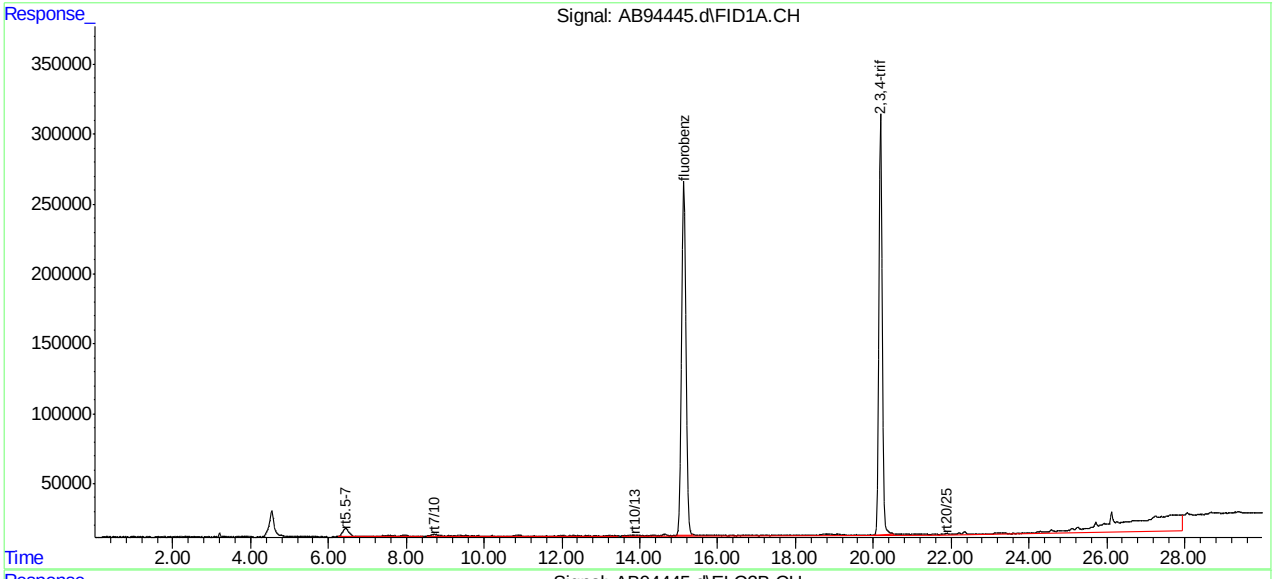
(f)=RT Delta > 1/2 Window (m)=manual int.

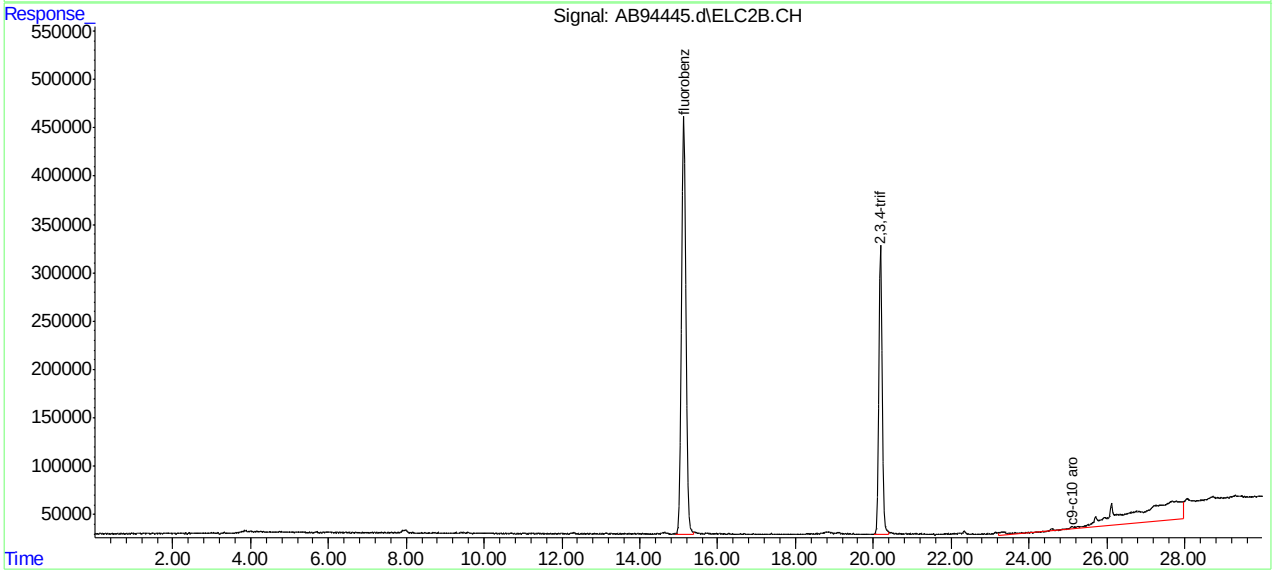
Quantitation Report (QT Reviewed)

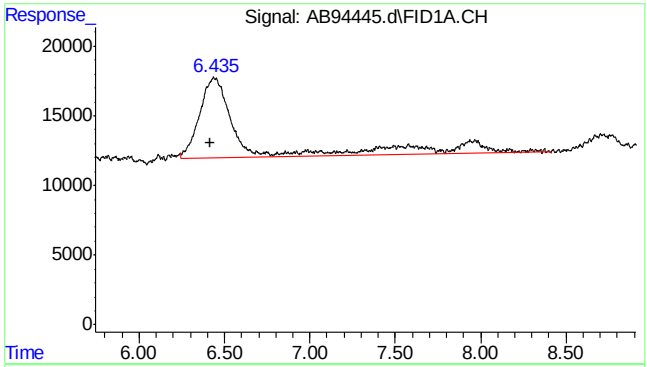
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:11:56 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

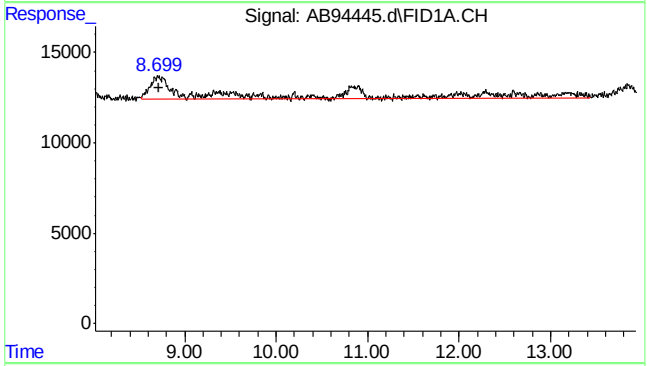




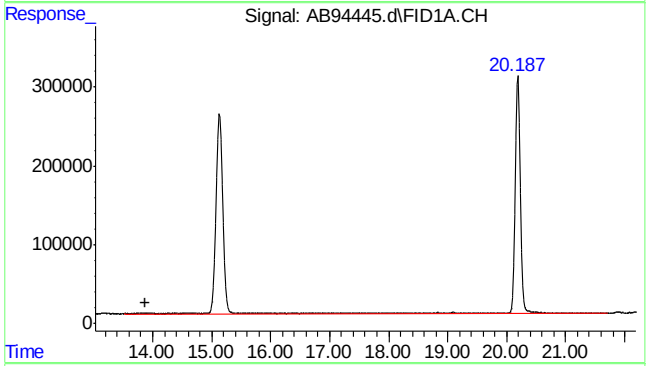

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 1011757
Conc: 2.52 ppb m



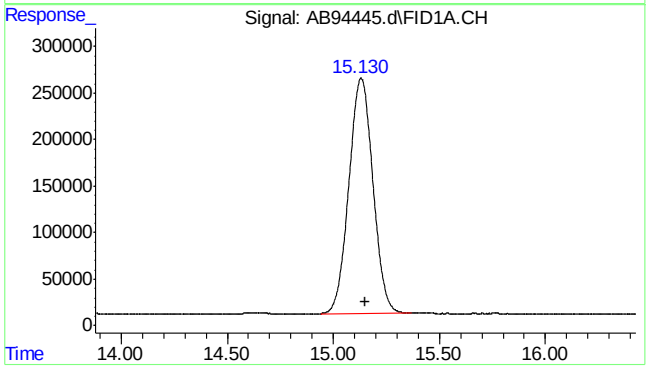

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 629585
Conc: 1.57 ppb m



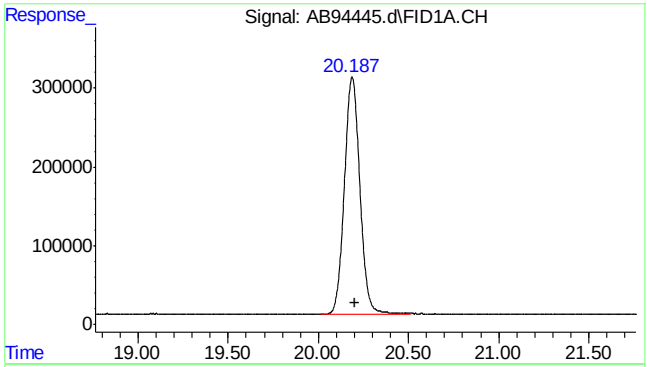

#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 2971141
Conc: 7.40 ppb



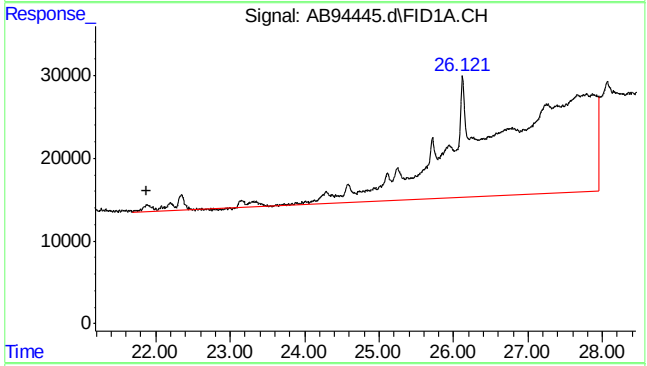

#4 fluorobenzene

R.T.: 15.131 min
Delta R.T.: -0.020 min
Response: 20026521
Conc: 45.50 ppb



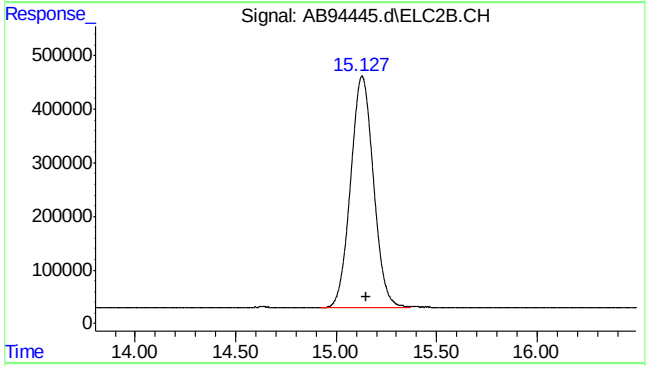

#6 2,3,4-trifluorotoluene

R.T.: 20.188 min
Delta R.T.: -0.018 min
Response: 17947131
Conc: 43.78 ppb



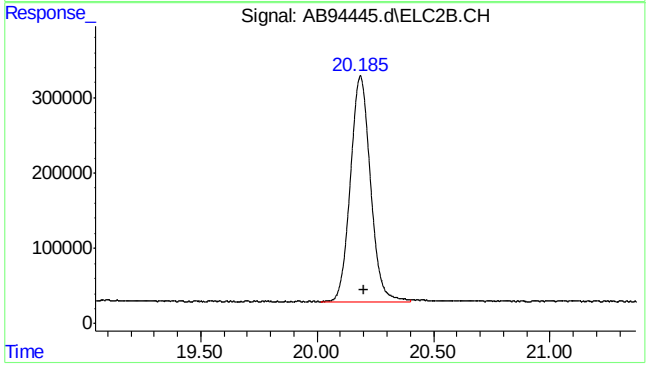

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 14005538
Conc: 22.36 ppb



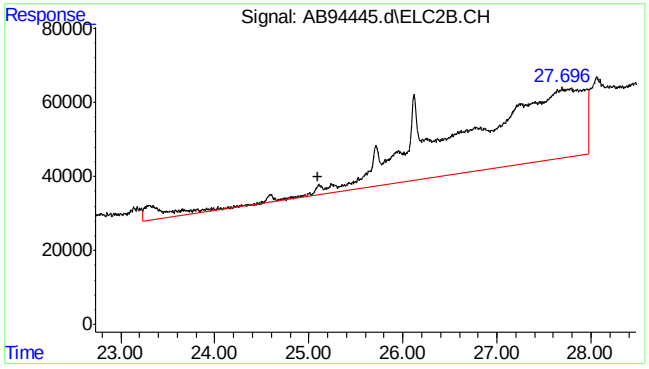

#16 fluorobenzene #2

R.T.: 15.128 min
Delta R.T.: -0.020 min
Response: 34389419
Conc: 40.83 ppb




#18 2,3,4-trifluorotoluene #2

R.T.: 20.186 min
Delta R.T.: -0.017 min
Response: 18042667
Conc: 38.65 ppb




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

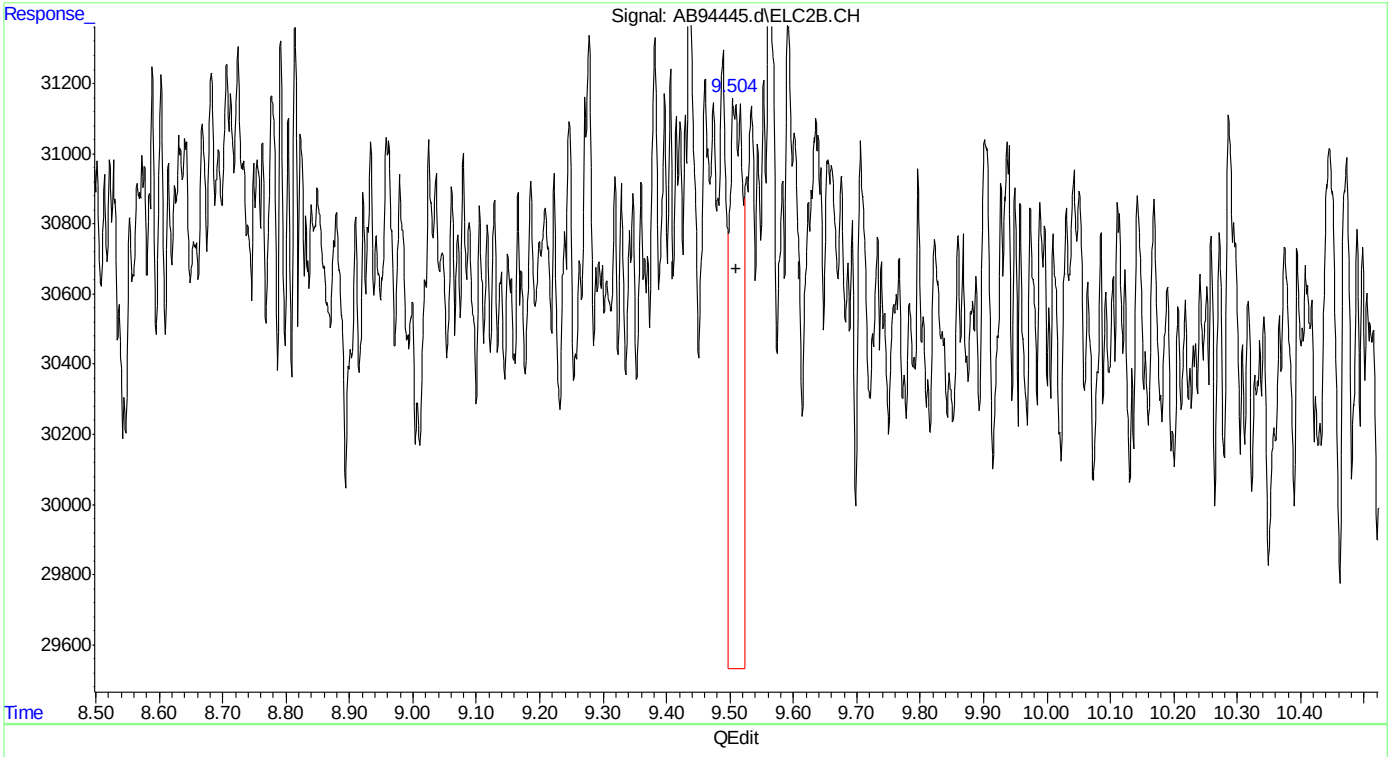
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 19420438
Conc: 20.27 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.506min 0.045 ppb
response 22526

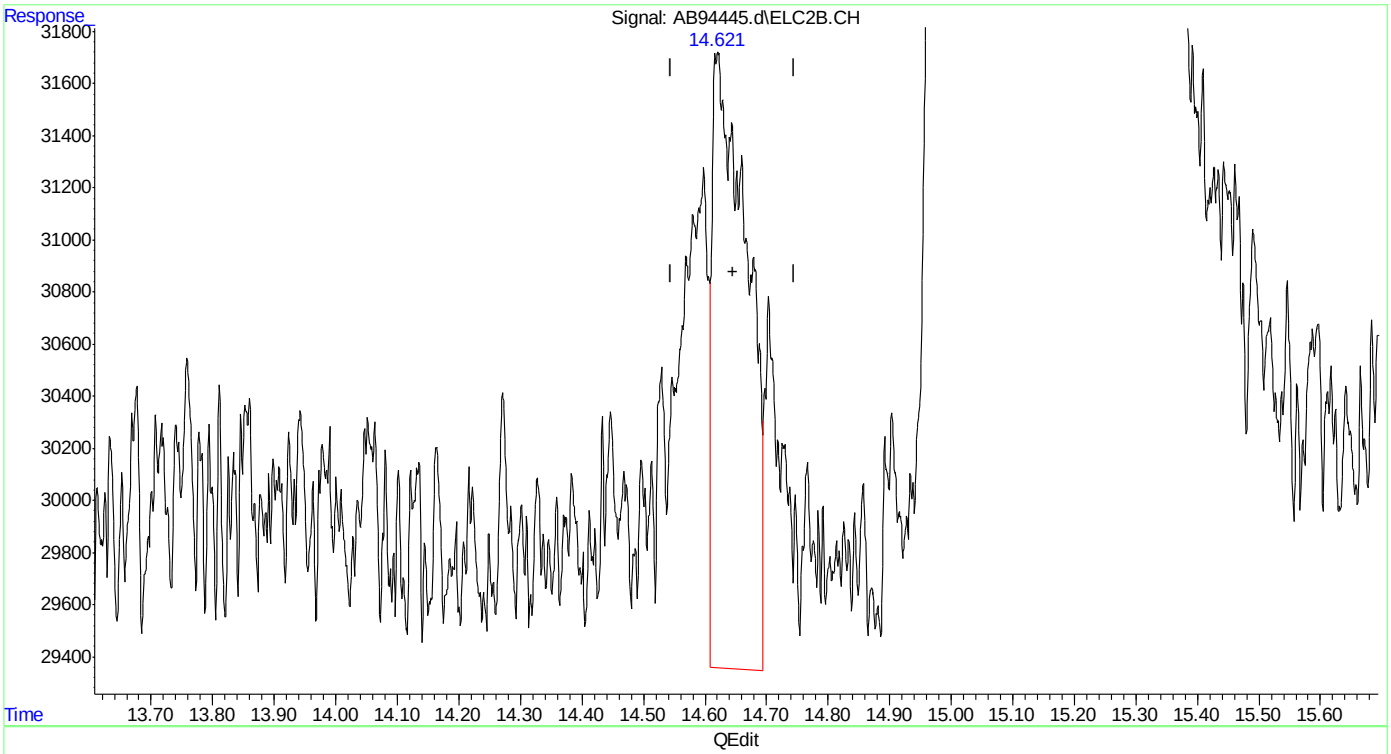
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:11 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2
14.620min 0.072 ppb
response 93252

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:15 2016







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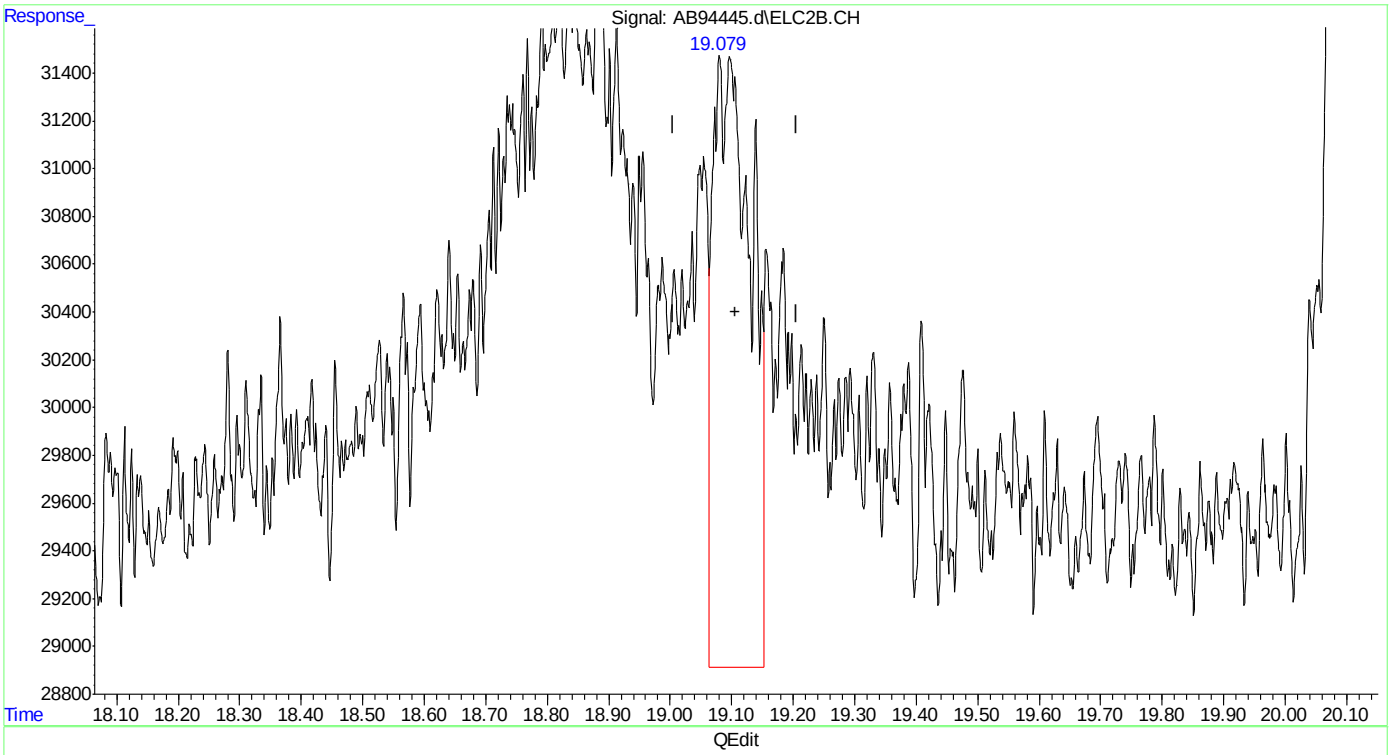
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.080min 0.095 ppb
response 108879

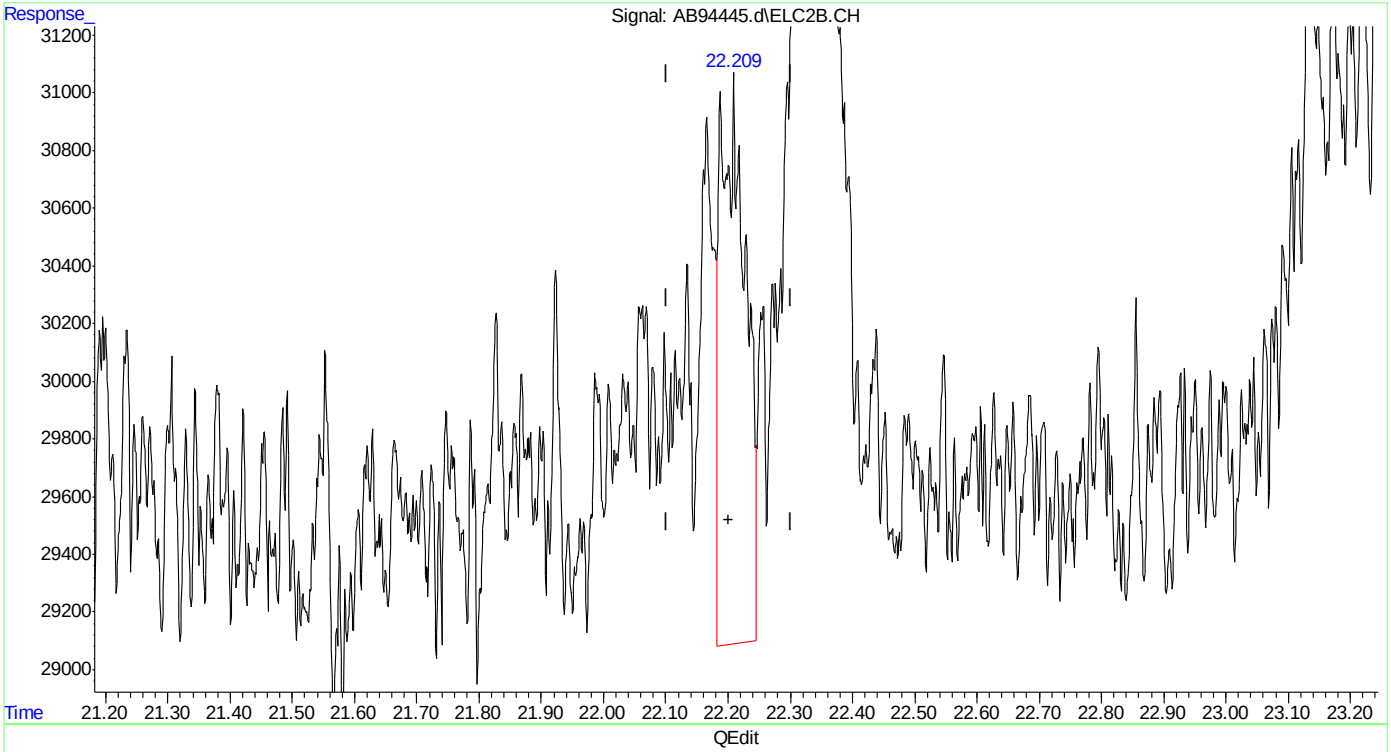
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:21 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2
22.189min 0.060 ppb
response 55320

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:26 2016







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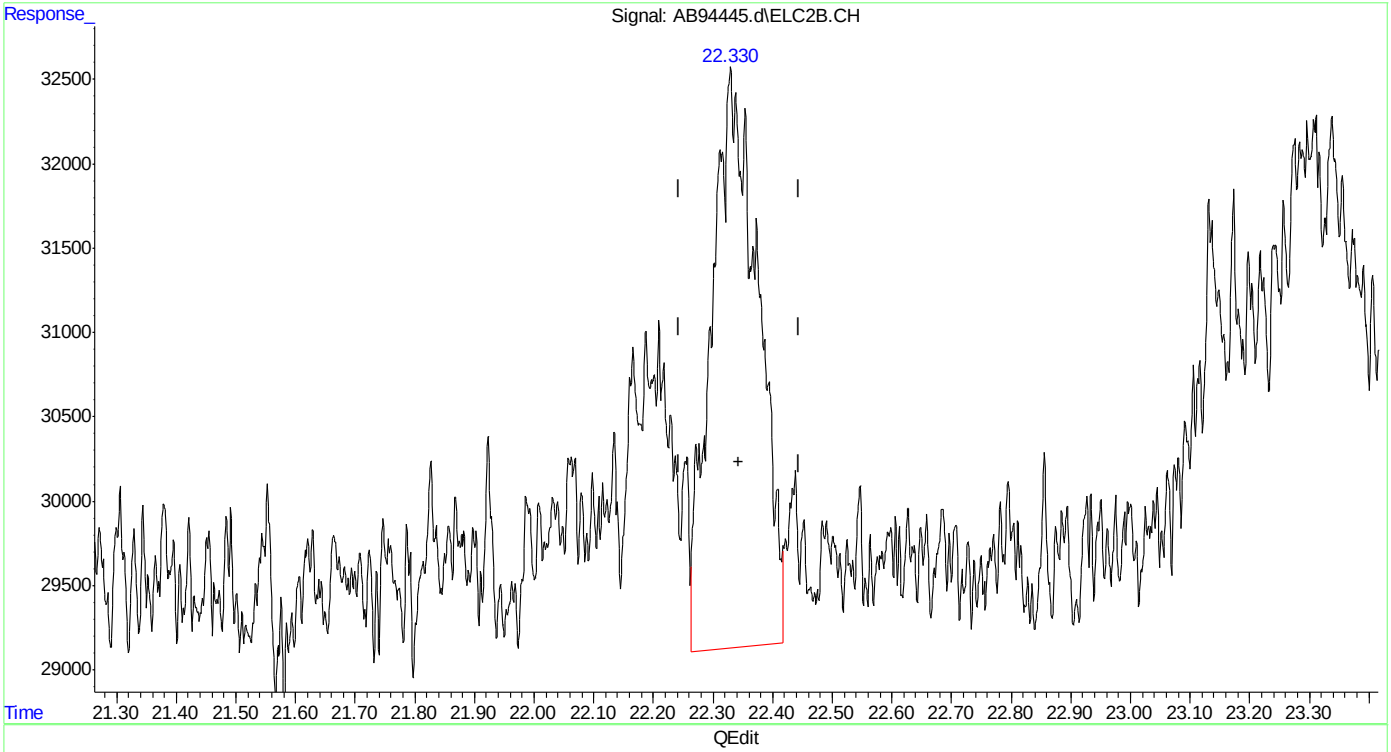
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2
22.329min 0.175 ppb
response 185838

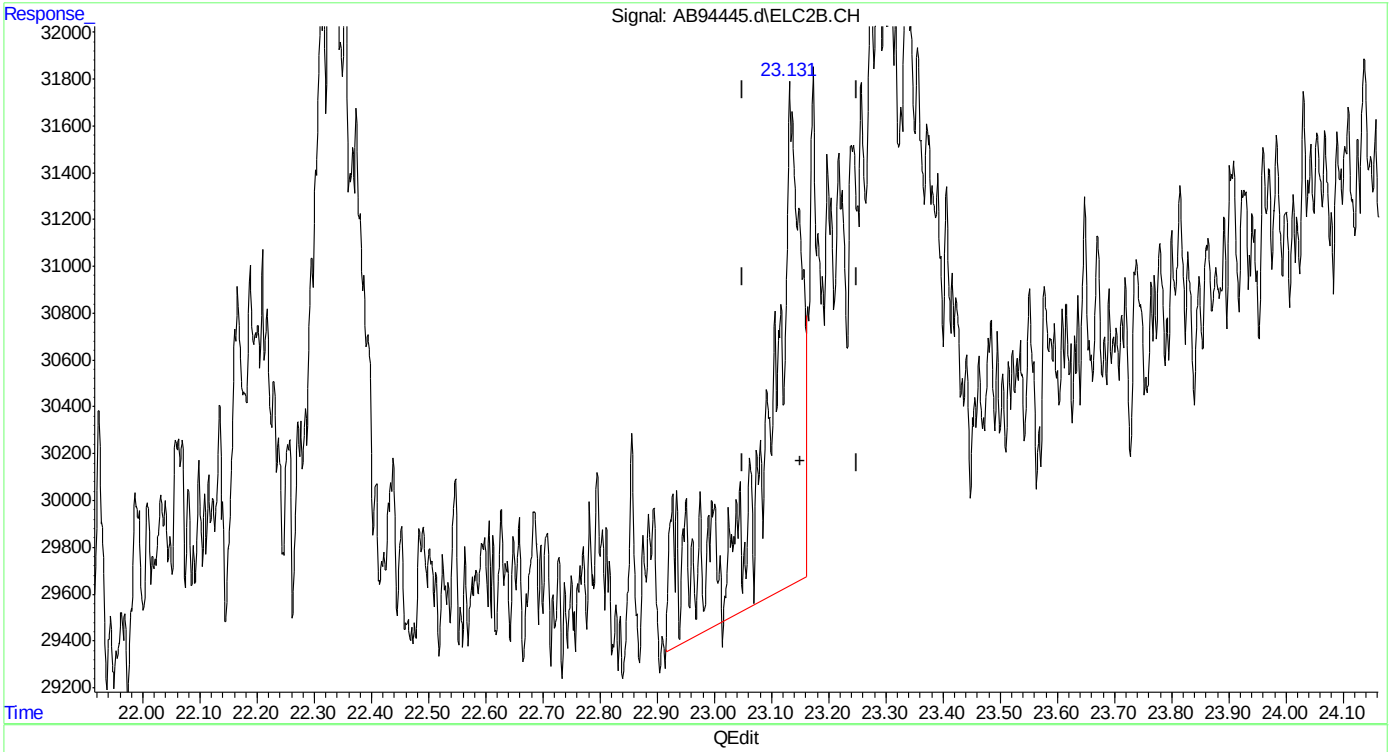
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.137min 0.097 ppb
response 90709

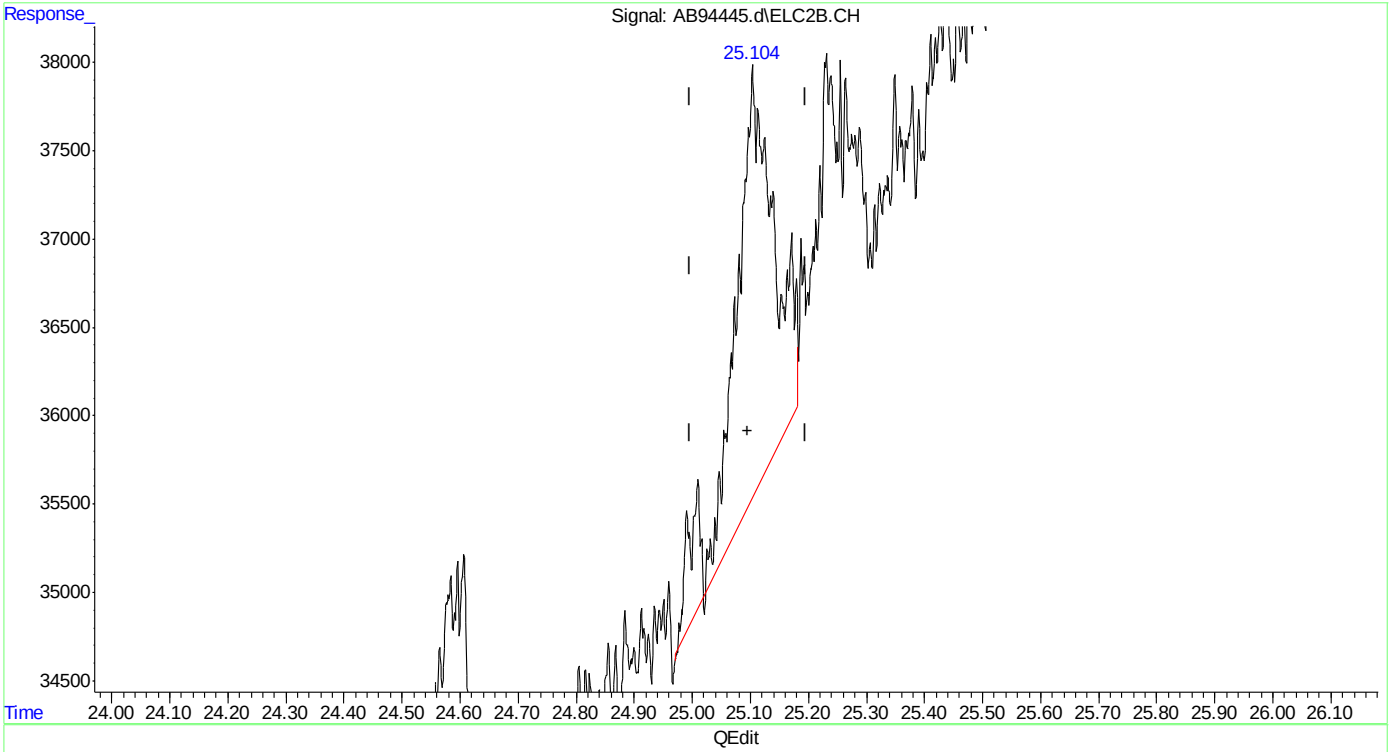
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:34 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.106min 0.122 ppb
response 116956

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:40 2016





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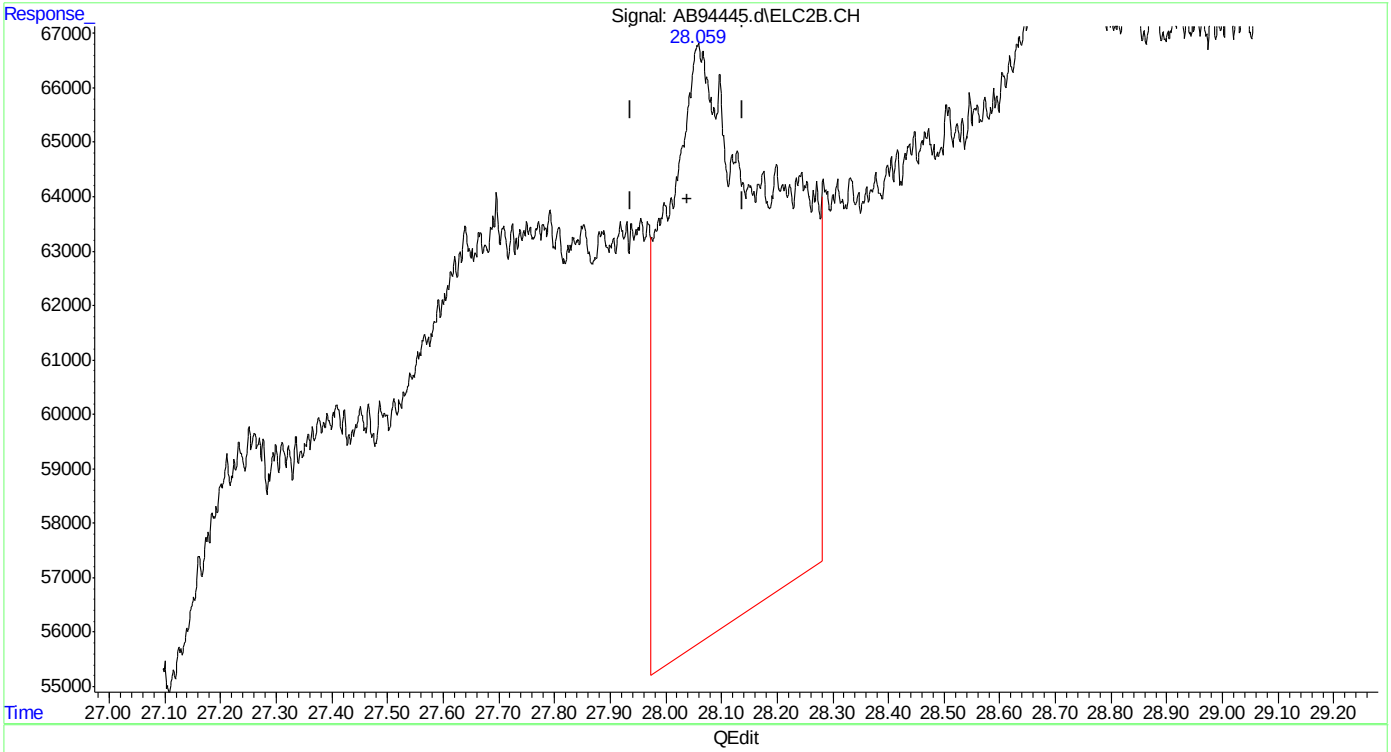
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94445.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 21:21:29
Operator : tonyf
Sample : mc46487-7,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 20 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:11:37 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.060min 2.112 ppb
response 1526830

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:11:45 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:45:08 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 4) s fluorobenzene | 15.133 | 20001893 | 45.445 ppb |
| Spiked Amount 50.000 | | Recovery = | 90.89% |
| 6) s 2,3,4-trifluorotoluene | 20.190 | 17791798 | 43.400 ppb |
| Spiked Amount 50.000 | | Recovery = | 86.80% |
| 16) s fluorobenzene #2 | 15.130 | 33932104 | 40.288 ppb |
| Spiked Amount 50.000 | | Recovery = | 80.58% |
| 18) s 2,3,4-trifluorotoluen... | 20.187 | 17997253 | 38.548 ppb |
| Spiked Amount 50.000 | | Recovery = | 77.10% |
| Target Compounds | | | |
| 1) h rt5.5-7 | 6.420 | 230996 | 0.575 ppb m |
| 2) h rt7/10 | 8.720 | 441857 | 1.100 ppb m |
| 3) h rt10/13 | 13.870 | 3693352 | 9.199 ppb |
| 8) h rt20/25 | 21.870 | 14690534 | 23.448 ppb |
| 24) naphthalene #2 | 28.052 | 518473 | 0.717 ppb m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 18647827 | 19.464 ppb m |

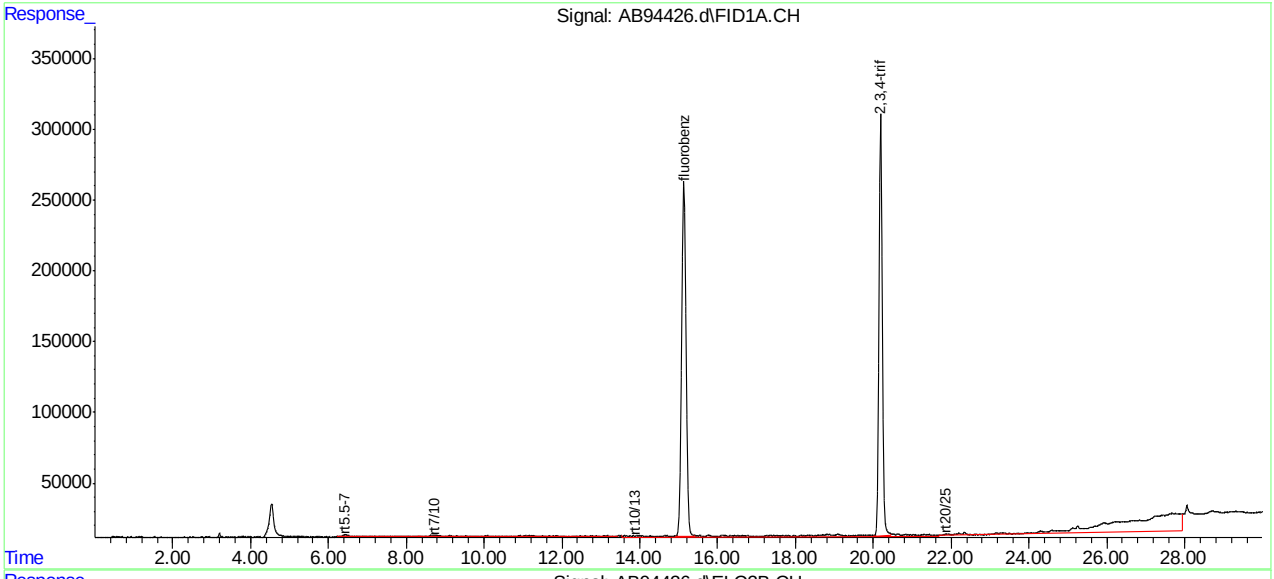
(f)=RT Delta > 1/2 Window (m)=manual int.

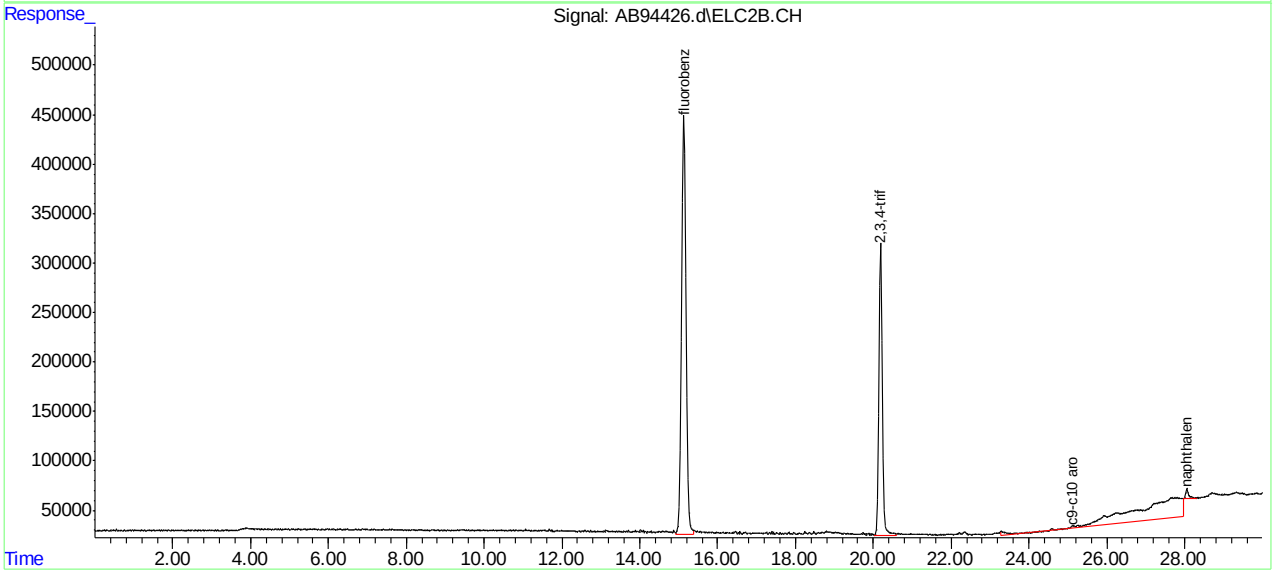
Quantitation Report (QT Reviewed)

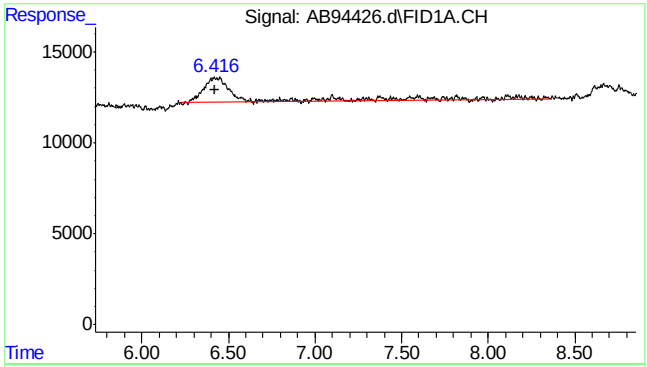
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:45:08 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

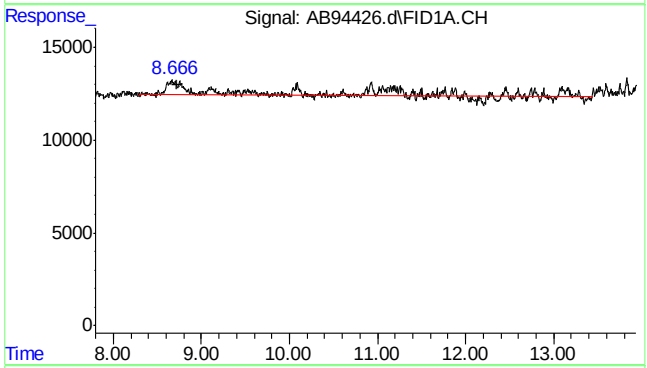




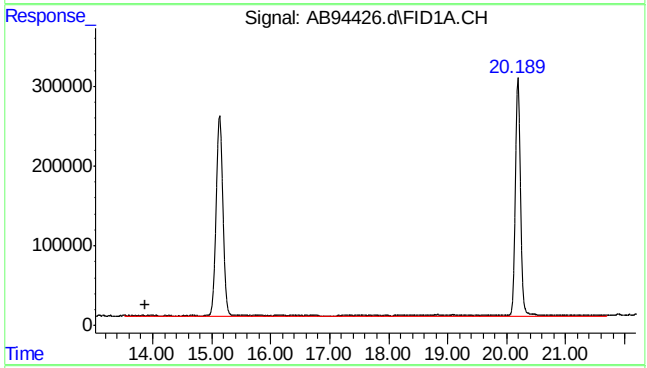

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 230996
Conc: 0.58 ppb m



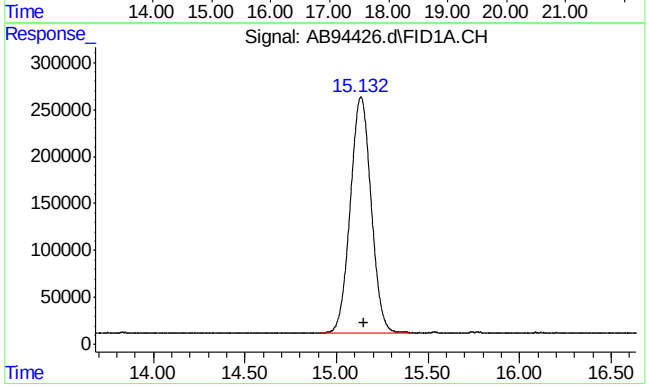

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 441857
Conc: 1.10 ppb m



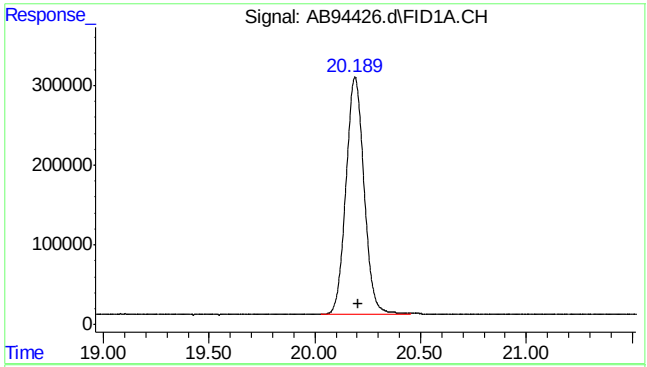

#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 3693352
Conc: 9.20 ppb



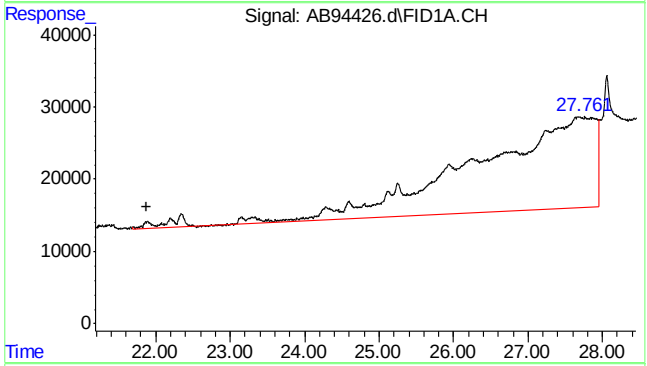

#4 fluorobenzene

R.T.: 15.133 min
Delta R.T.: -0.019 min
Response: 20001893
Conc: 45.44 ppb



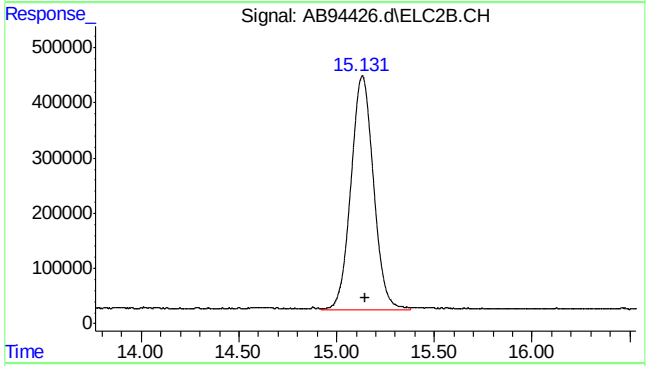

#6 2,3,4-trifluorotoluene

R.T.: 20.190 min
Delta R.T.: -0.016 min
Response: 17791798
Conc: 43.40 ppb



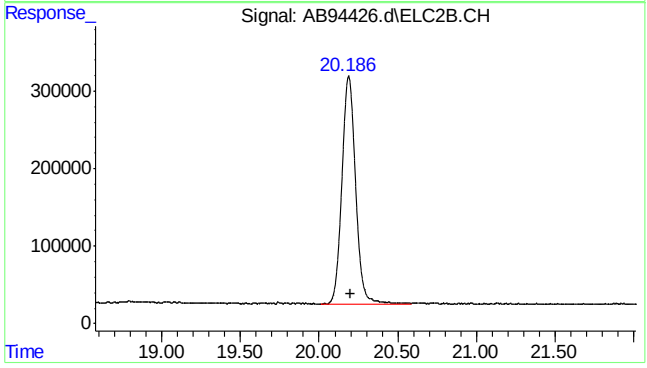

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 14690534
Conc: 23.45 ppb




#16 fluorobenzene #2

R.T.: 15.130 min
Delta R.T.: -0.018 min
Response: 33932104
Conc: 40.29 ppb




#18 2,3,4-trifluorotoluene #2

R.T.: 20.187 min
Delta R.T.: -0.016 min
Response: 17997253
Conc: 38.55 ppb

7.2.1

7



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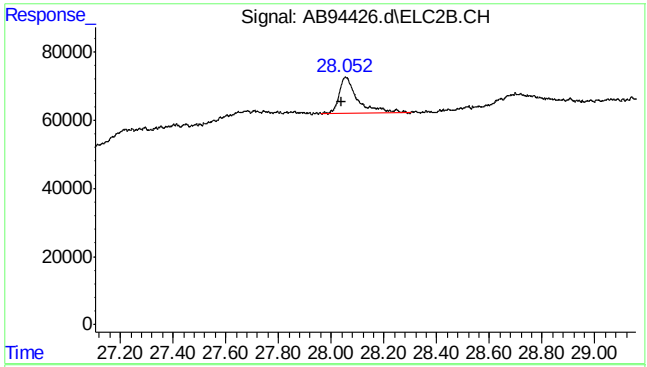
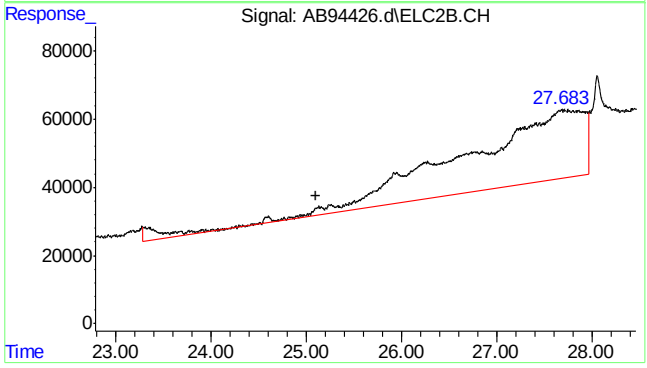



#24 naphthalene #2

R.T.: 28.052 min
Delta R.T.: 0.014 min
Response: 518473
Conc: 0.72 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 18647827
Conc: 19.46 ppb m

7.2.1

7



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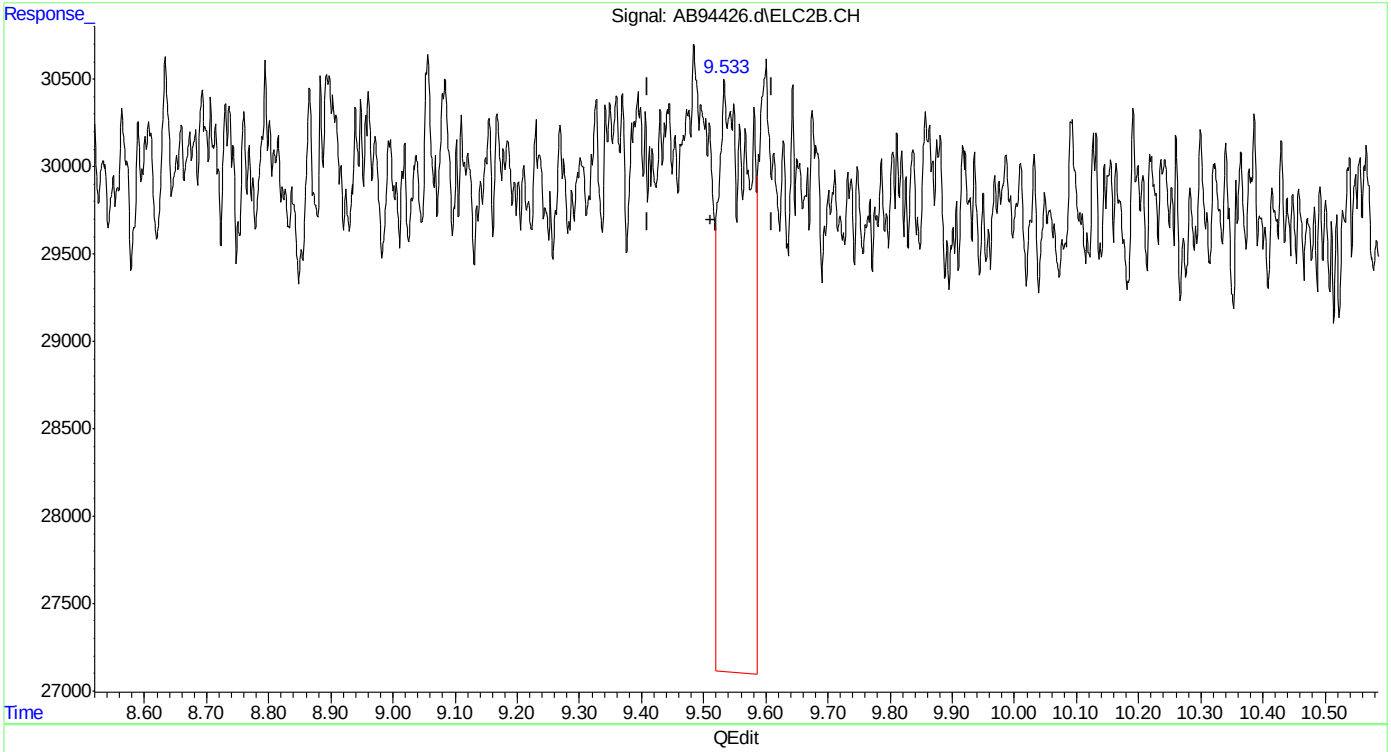
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:38:38
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.535min 0.238 ppb

response 119968

(+) = Expected Retention Time

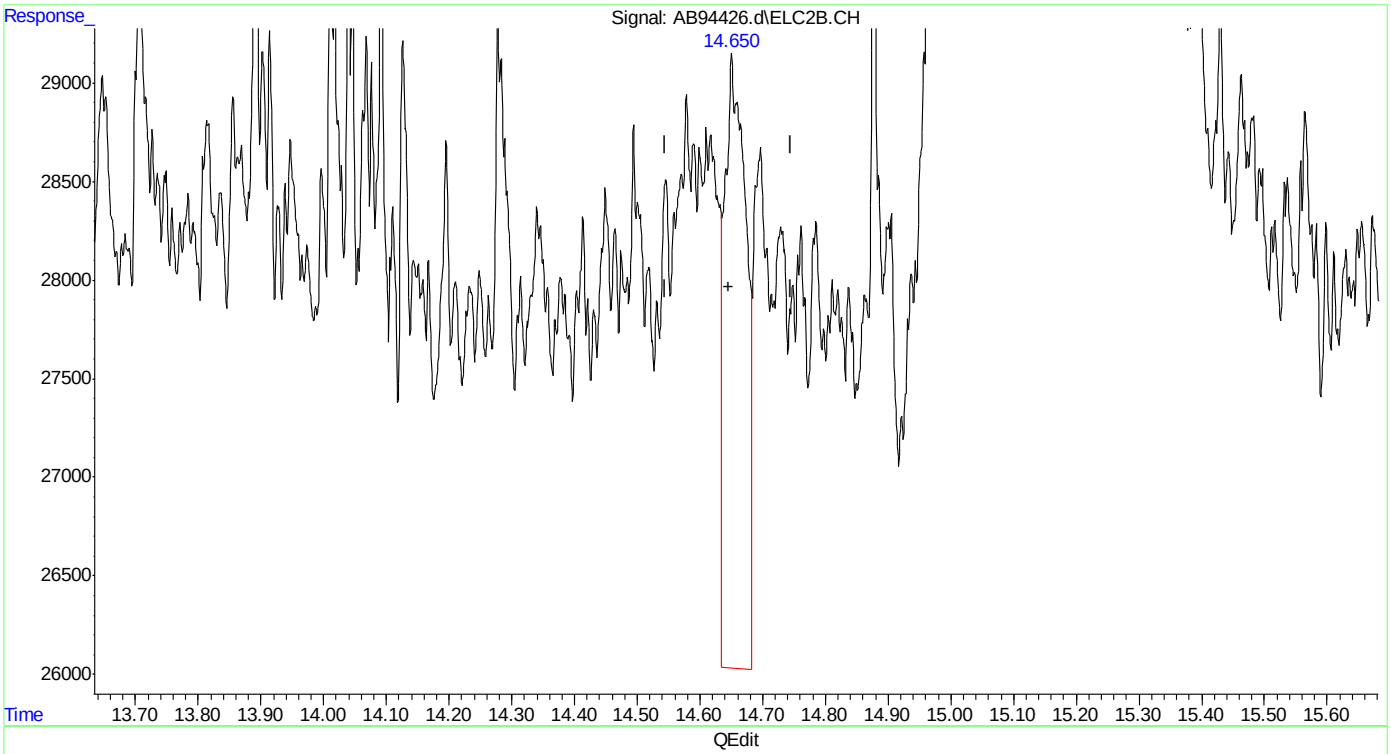
ab160622vph.M Wed Jun 22 09:43:35 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:38:38
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(15) benzene #2

14.652min 0.056 ppb

response 73139

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 09:43:43 2016



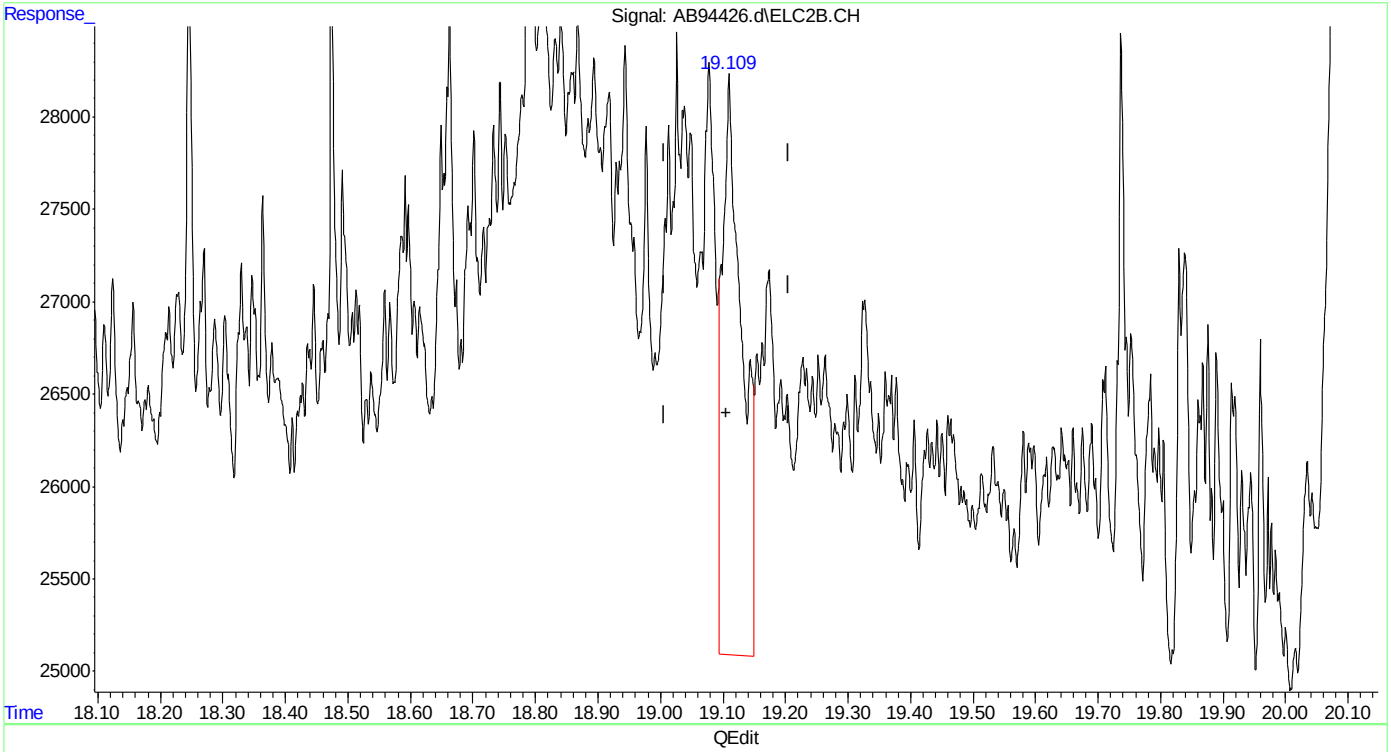
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(17) toluene #2
19.110min 0.059 ppb
response 67259

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 09:43:57 2016





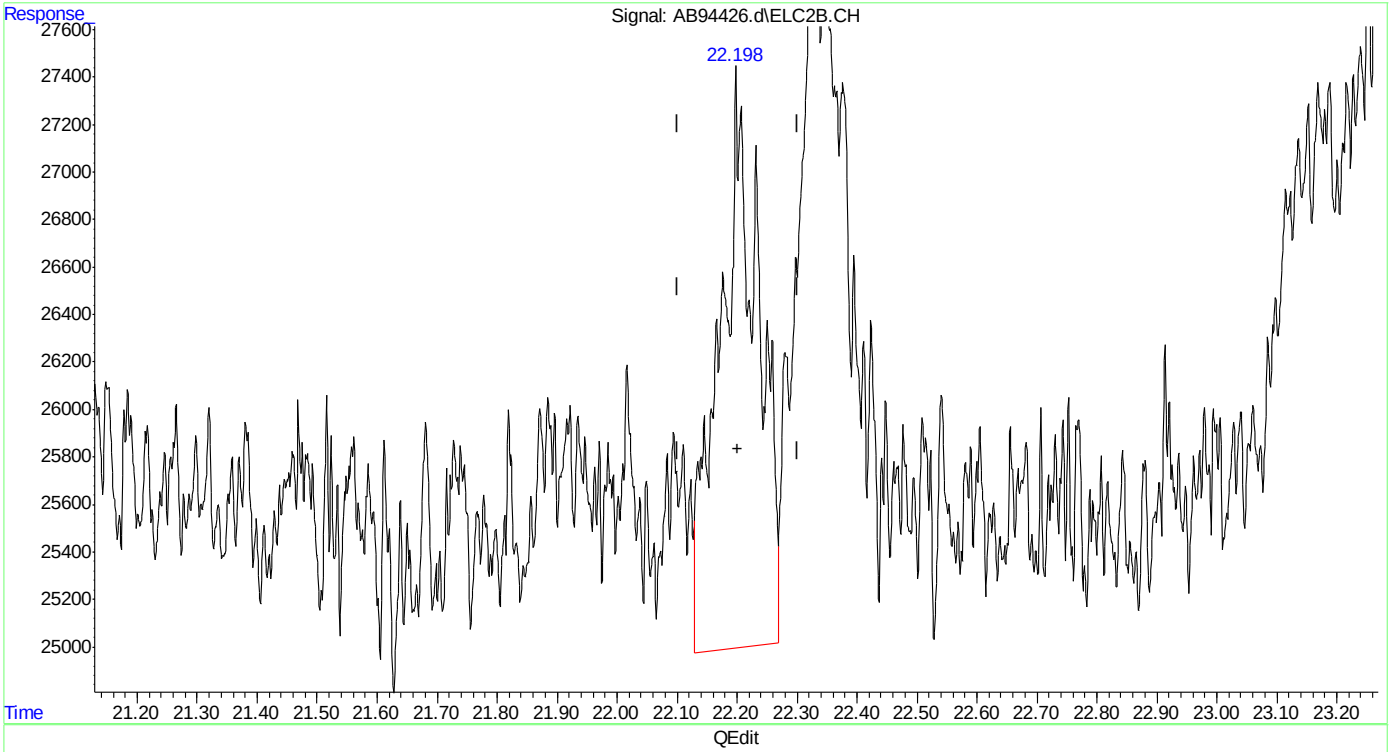
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:38:38
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(19) ethylbenzene #2

22.204min 0.118 ppb

response 109514

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 09:44:05 2016







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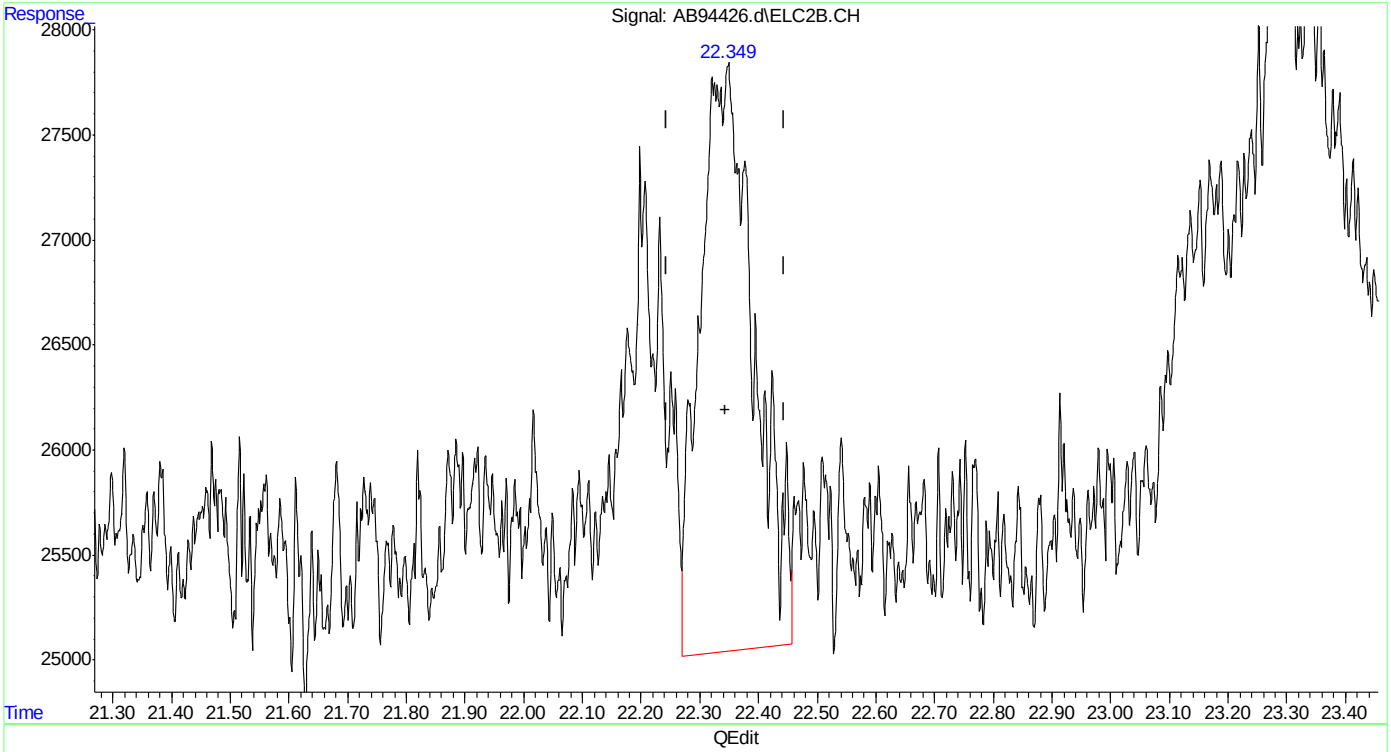
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:38:38
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(20) m,p-xylene #2

22.346min 0.170 ppb

response 180015

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 09:44:17 2016



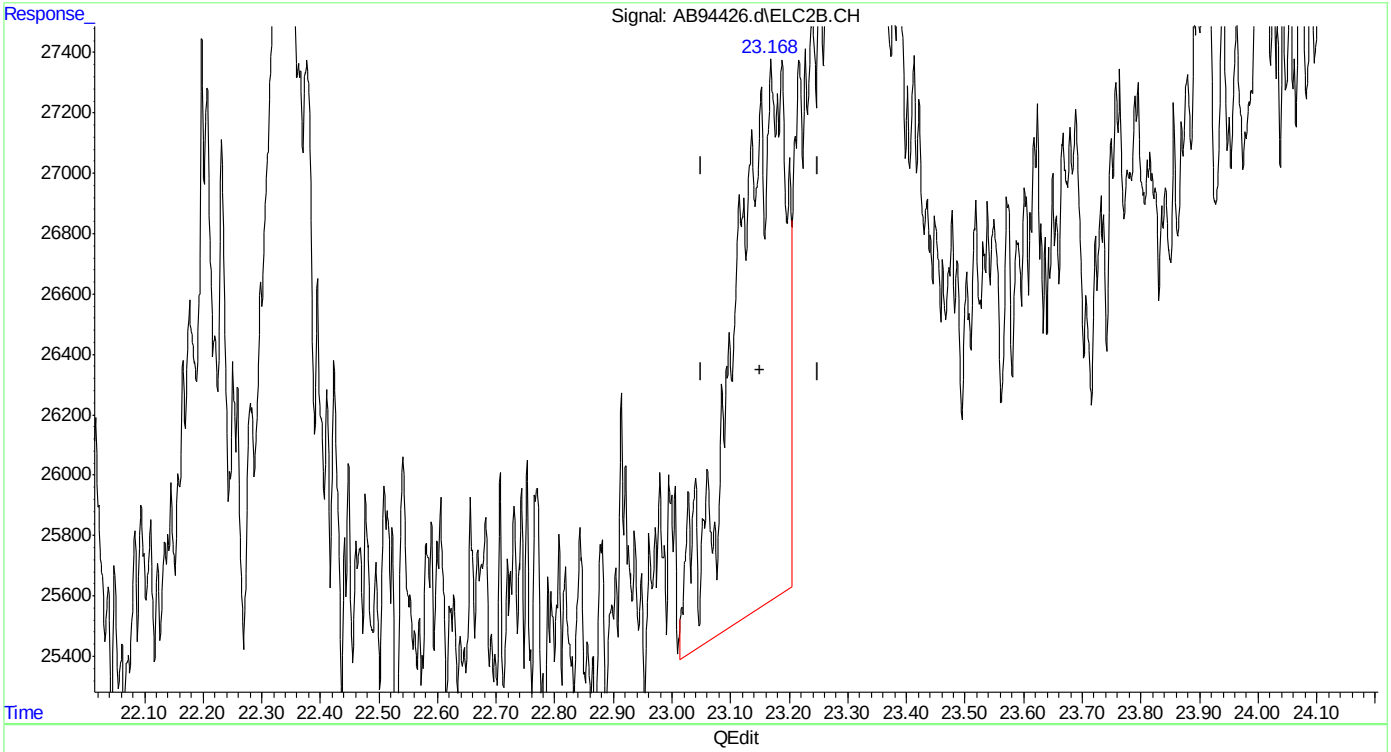
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(21) o-xylene #2
23.152min 0.120 ppb
response 111817

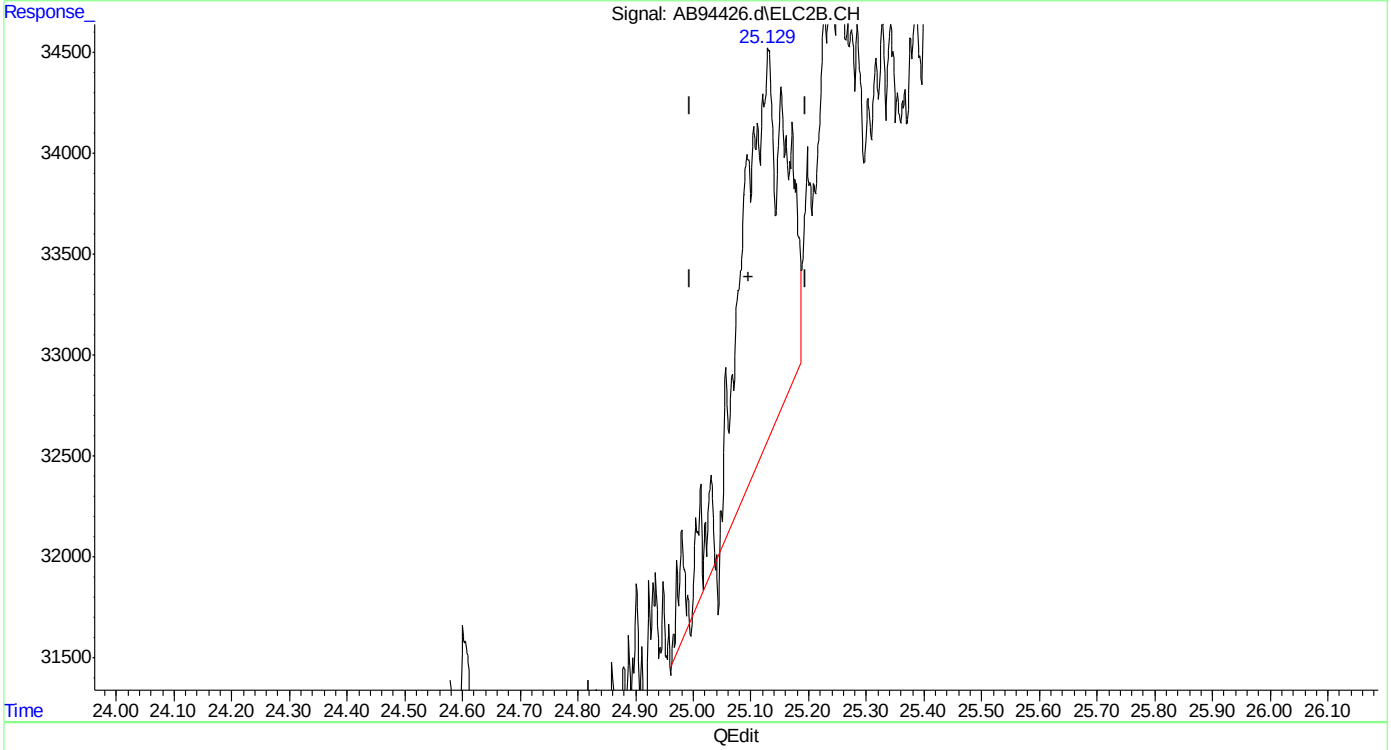
(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 09:44:29 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.129min 0.118 ppb
response 112894

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 09:44:41 2016





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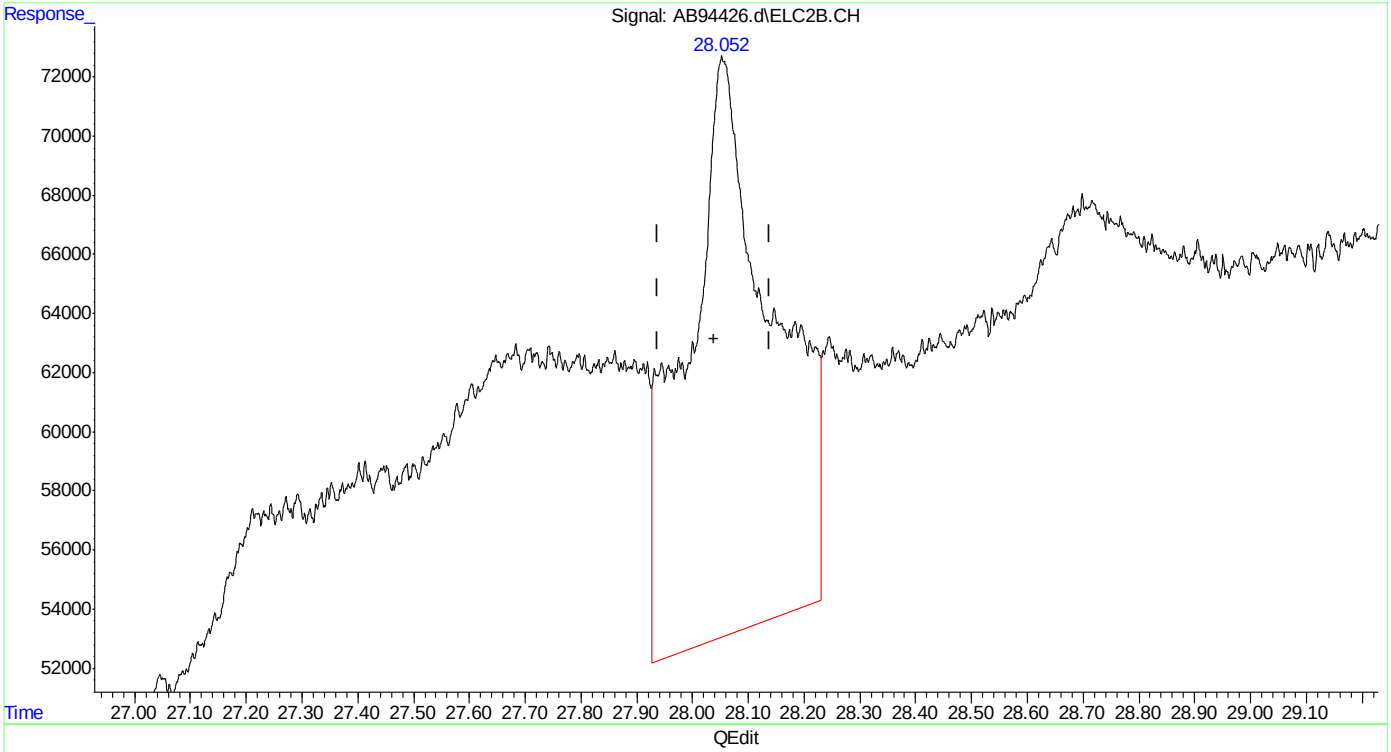
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:38:38
Operator : tonyf
Sample : mb,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.054min 2.901 ppb
response 2097378

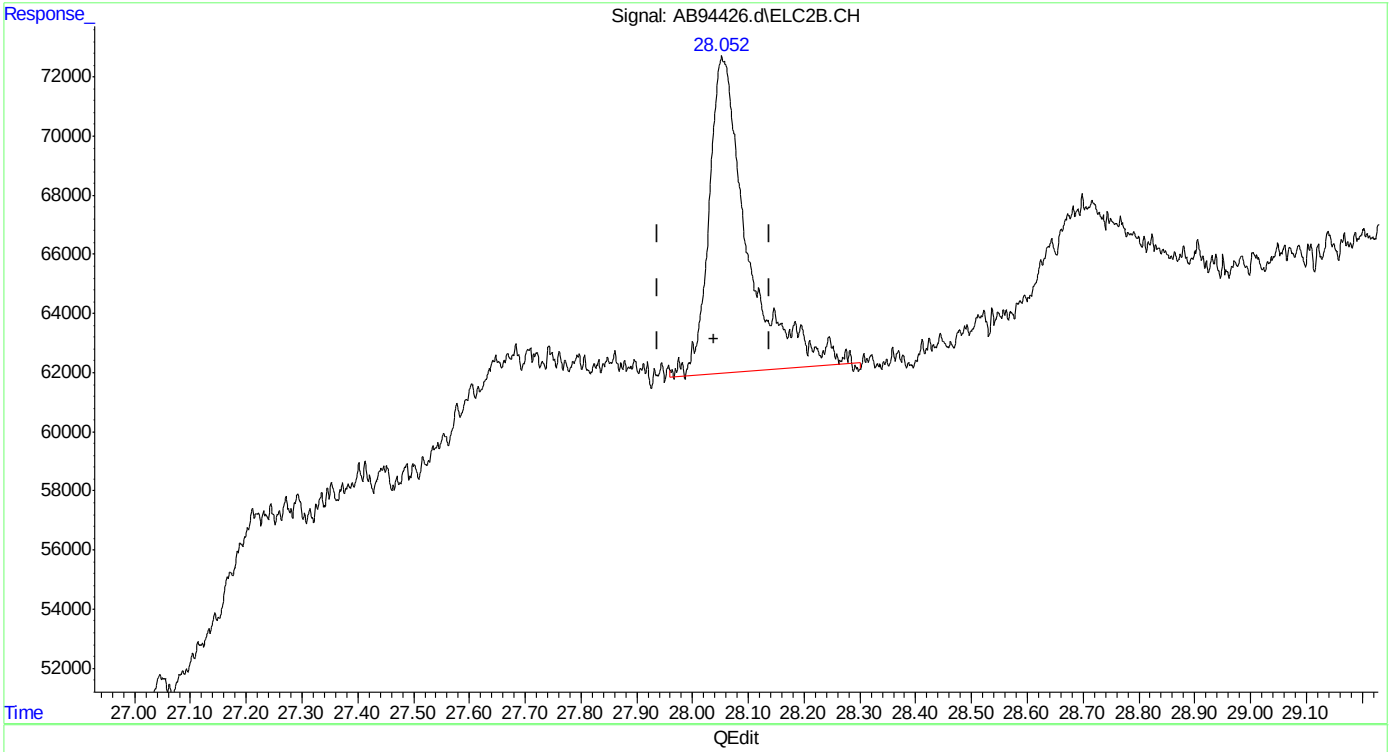
(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 09:44:49 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94426.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:38:38
Operator  : tonyf
Sample    : mb,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 2 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 09:43:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.052min 0.717 ppb m

response 518473

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 09:45:02 2016



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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94427.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 09:59:08
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 10:32:01 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units | |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 4) s fluorobenzene | 15.117 | 23778524 | 54.025 ppb | |
| Spiked Amount 50.000 | | Recovery | = 108.05% | |
| 6) s 2,3,4-trifluorotoluene | 20.178 | 21131479 | 51.546 ppb | |
| Spiked Amount 50.000 | | Recovery | = 103.09% | |
| 16) s fluorobenzene #2 | 15.113 | 42157987 | 50.054 ppb | |
| Spiked Amount 50.000 | | Recovery | = 100.11% | |
| 18) s 2,3,4-trifluorotoluen... | 20.175 | 21525127 | 46.104 ppb | |
| Spiked Amount 50.000 | | Recovery | = 92.21% | |
| Target Compounds | | | | |
| 1) h rt5.5-7 | 6.420 | 16289025 | 40.569 ppb | m |
| 2) h rt7/10 | 8.720 | 19102166 | 47.576 ppb | m |
| 3) h rt10/13 | 13.870 | 20984994 | 52.265 ppb | m |
| 8) h rt20/25 | 21.870 | 26724775 | 42.657 ppb | m |
| 10) h decane | 24.200 | 27433006 | 43.787 ppb | |
| 11) h butylcyclohexane | 25.240 | 29275849 | 46.729 ppb | m |
| 14) mtbe #2 | 9.492 | 23430453 | 46.447 ppb | |
| 15) benzene #2 | 14.613 | 59966452 | 46.070 ppb | |
| 17) toluene #2 | 19.075 | 51368446 | 44.931 ppb | |
| 19) ethylbenzene #2 | 22.178 | 41760619 | 45.105 ppb | |
| 20) m,p-xylene #2 | 22.321 | 100365621 | 94.620 ppb | |
| 21) o-xylene #2 | 23.127 | 42080717 | 45.048 ppb | |
| 22) t 1,3,5-trimethylbenzen... | 24.564 | 53296475 | 40.793 ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.083 | 41322626 | 43.178 ppb | |
| 24) naphthalene #2 | 28.029 | 34147755 | 47.236 ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 41369406 | 43.181 ppb | m |

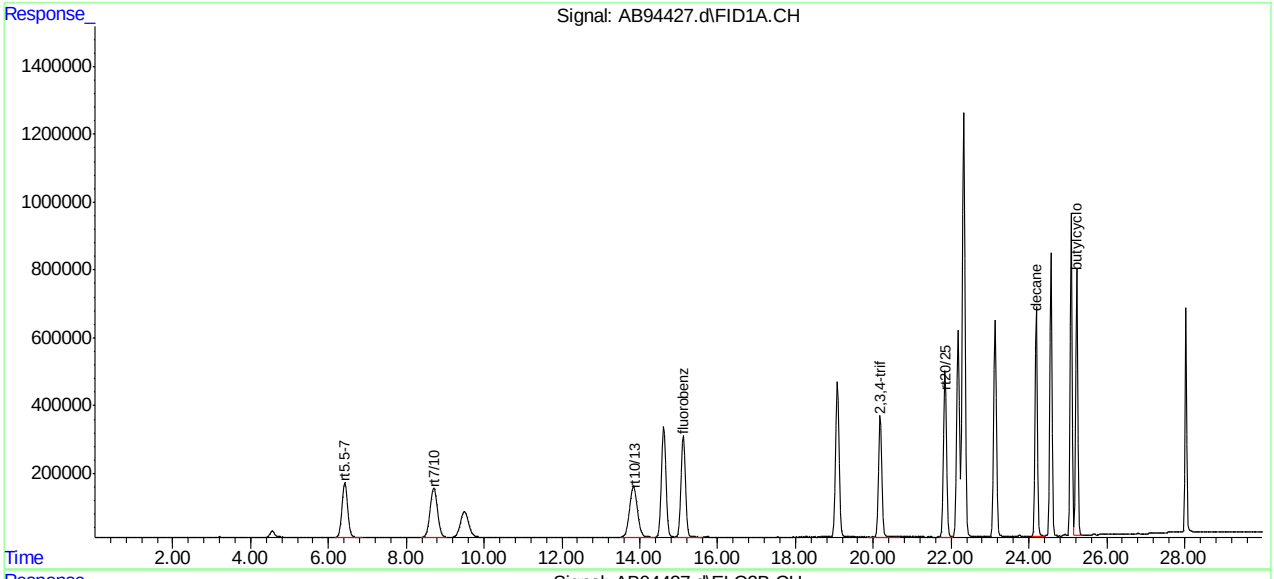
(f)=RT Delta > 1/2 Window (m)=manual int.

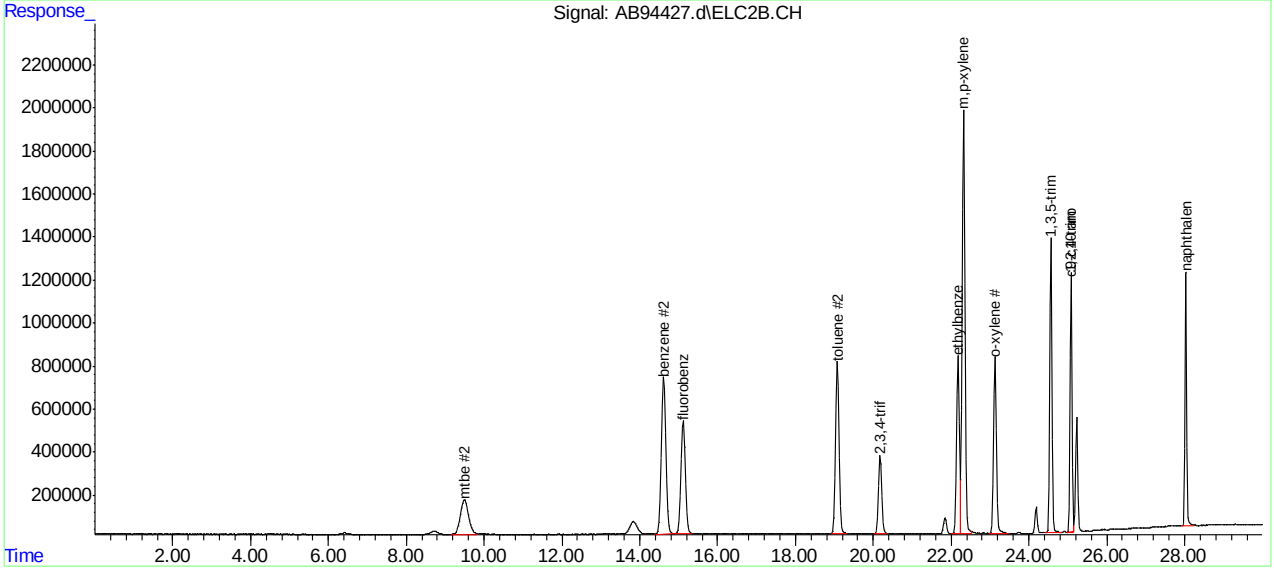
Quantitation Report (QT Reviewed)

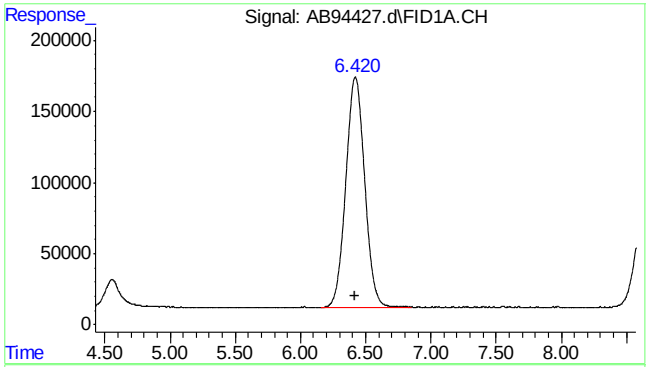
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94427.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 09:59:08
Operator : tonyf
Sample : bsp,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 10:32:01 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

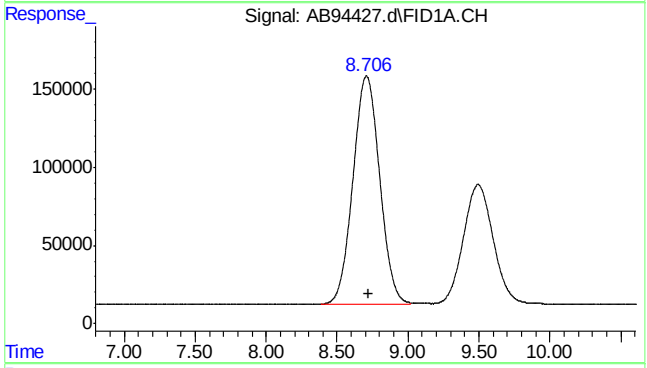




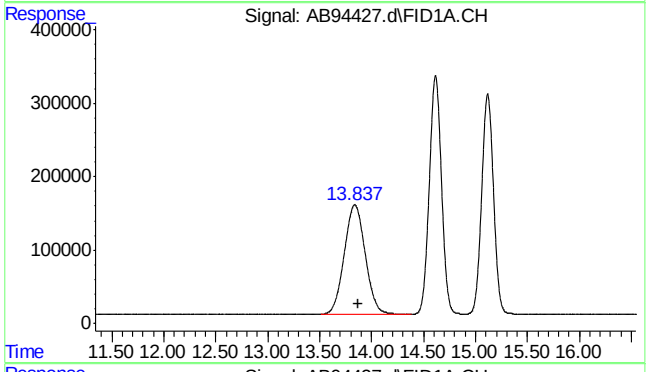

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16289025
Conc: 40.57 ppb m



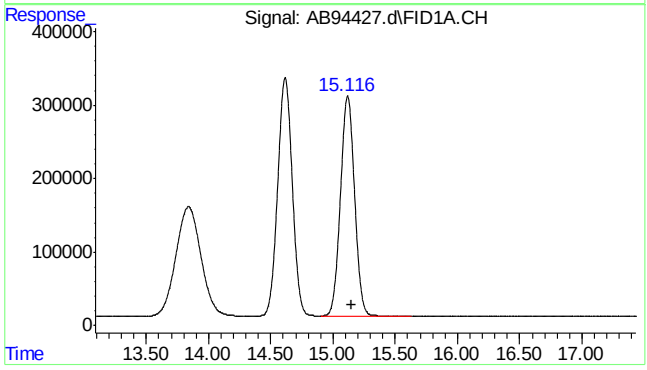

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19102166
Conc: 47.58 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 20984994
Conc: 52.27 ppb m




#4 fluorobenzene

R.T.: 15.117 min
Delta R.T.: -0.034 min
Response: 23778524
Conc: 54.03 ppb

7.3.1

7



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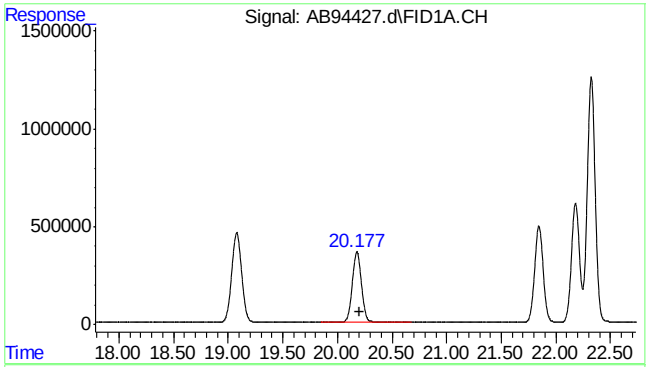
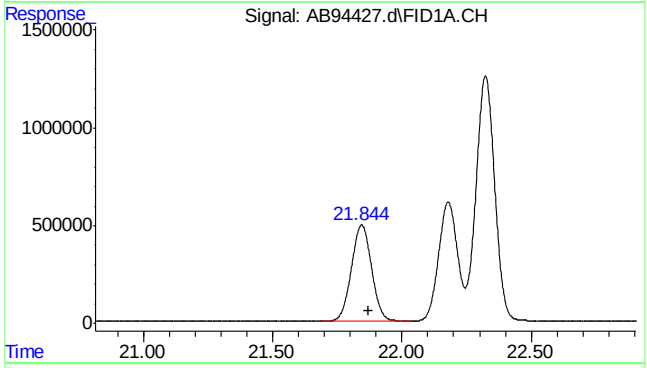


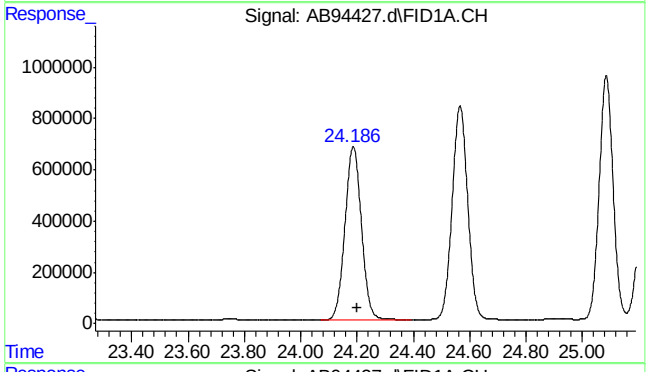

#6 2,3,4-trifluorotoluene

R.T.: 20.178 min
Delta R.T.: -0.028 min
Response: 21131479
Conc: 51.55 ppb



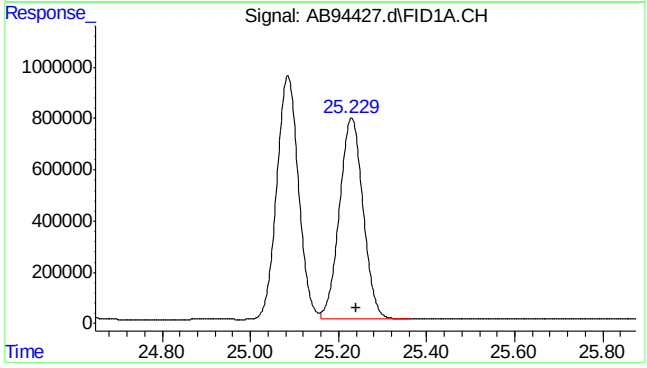

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26724775
Conc: 42.66 ppb m




#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27433006
Conc: 43.79 ppb




#11 butylcyclohexane

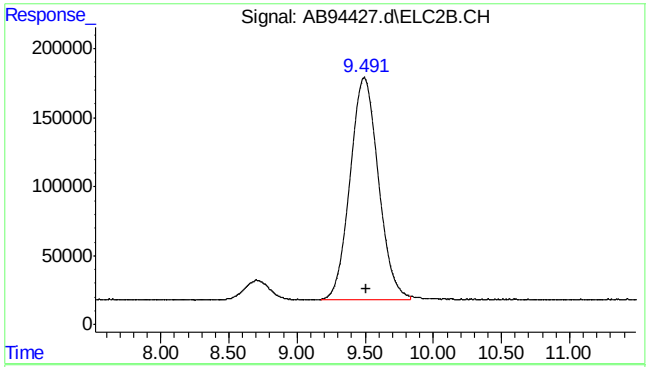
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29275849
Conc: 46.73 ppb m

7.3.1

7

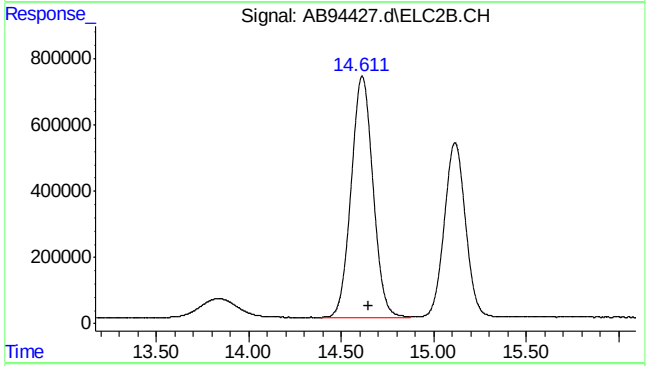


SGS ACCUTEST MC46487



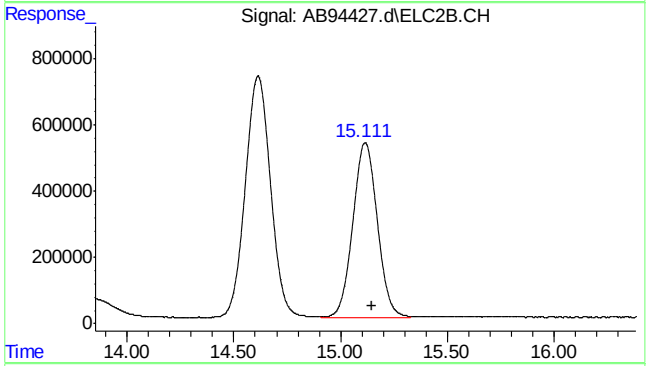

#14 mtbe #2

R.T.: 9.492 min
Delta R.T.: -0.019 min
Response: 23430453
Conc: 46.45 ppb



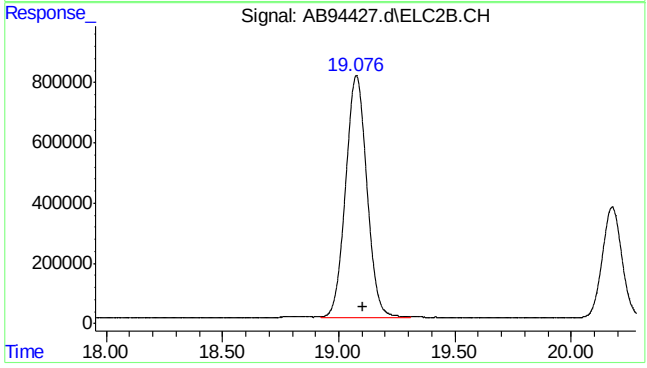

#15 benzene #2

R.T.: 14.613 min
Delta R.T.: -0.033 min
Response: 59966452
Conc: 46.07 ppb




#16 fluorobenzene #2

R.T.: 15.113 min
Delta R.T.: -0.035 min
Response: 42157987
Conc: 50.05 ppb




#17 toluene #2

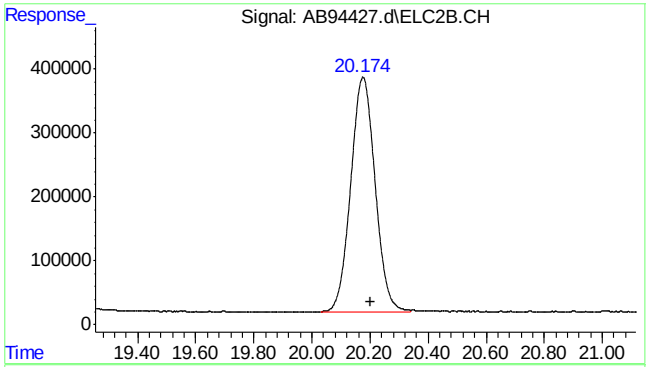
R.T.: 19.075 min
Delta R.T.: -0.031 min
Response: 51368446
Conc: 44.93 ppb

7.3.1

7

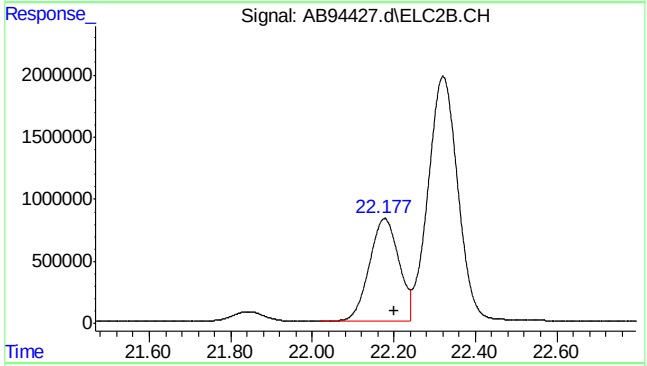


SGS ACCUTEST MC46487



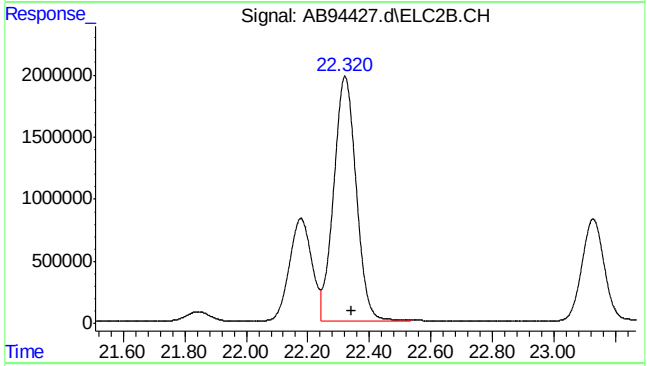

#18 2,3,4-trifluorotoluene #2

R.T.: 20.175 min
Delta R.T.: -0.028 min
Response: 21525127
Conc: 46.10 ppb



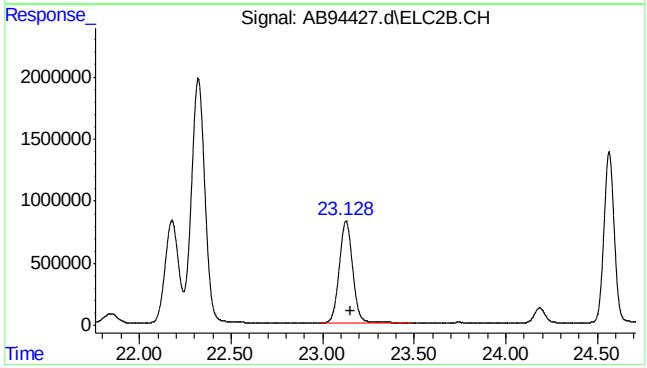

#19 ethylbenzene #2

R.T.: 22.178 min
Delta R.T.: -0.023 min
Response: 41760619
Conc: 45.11 ppb




#20 m,p-xylene #2

R.T.: 22.321 min
Delta R.T.: -0.023 min
Response: 100365621
Conc: 94.62 ppb




#21 o-xylene #2

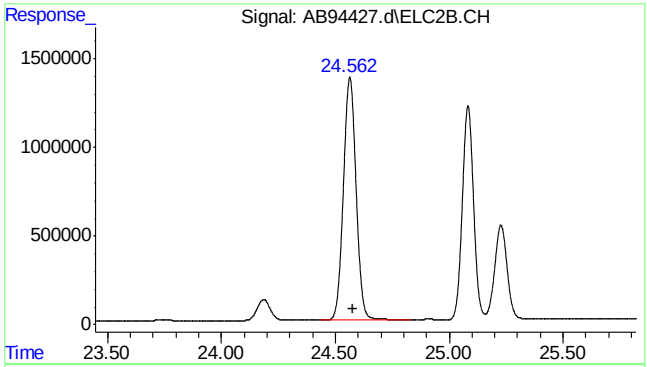
R.T.: 23.127 min
Delta R.T.: -0.022 min
Response: 42080717
Conc: 45.05 ppb

7.3.1

7

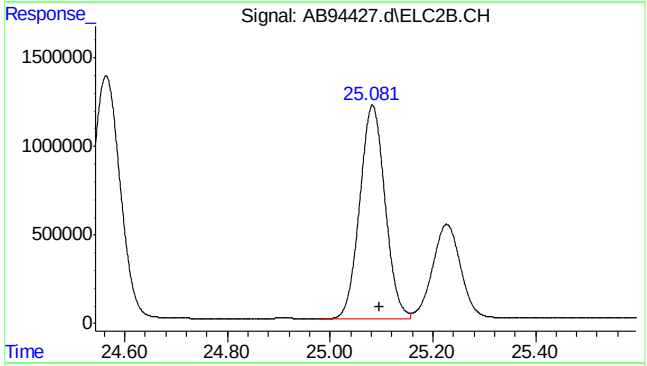


SGS ACCUTEST MC46487



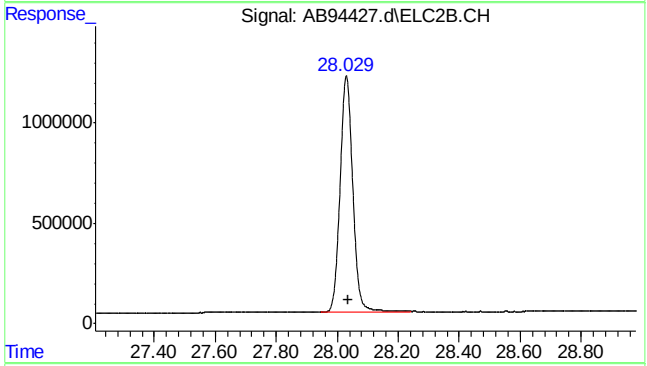

#22 1,3,5-trimethylbenzene #2

R.T.: 24.564 min
Delta R.T.: -0.015 min
Response: 53296475
Conc: 40.79 ppb



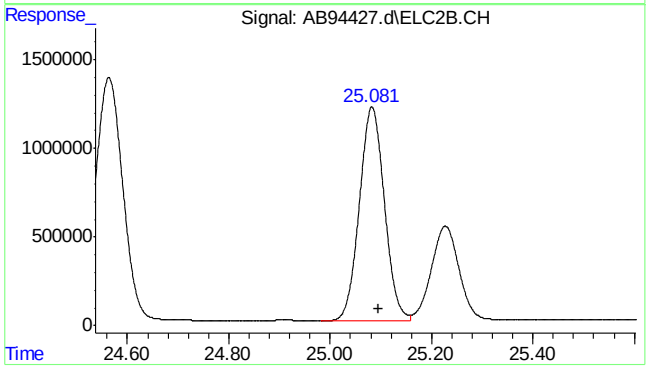

#23 1,2,4-trimethylbenzene #2

R.T.: 25.083 min
Delta R.T.: -0.013 min
Response: 41322626
Conc: 43.18 ppb




#24 naphthalene #2

R.T.: 28.029 min
Delta R.T.: -0.009 min
Response: 34147755
Conc: 47.24 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 41369406
Conc: 43.18 ppb m

7.3.1

7



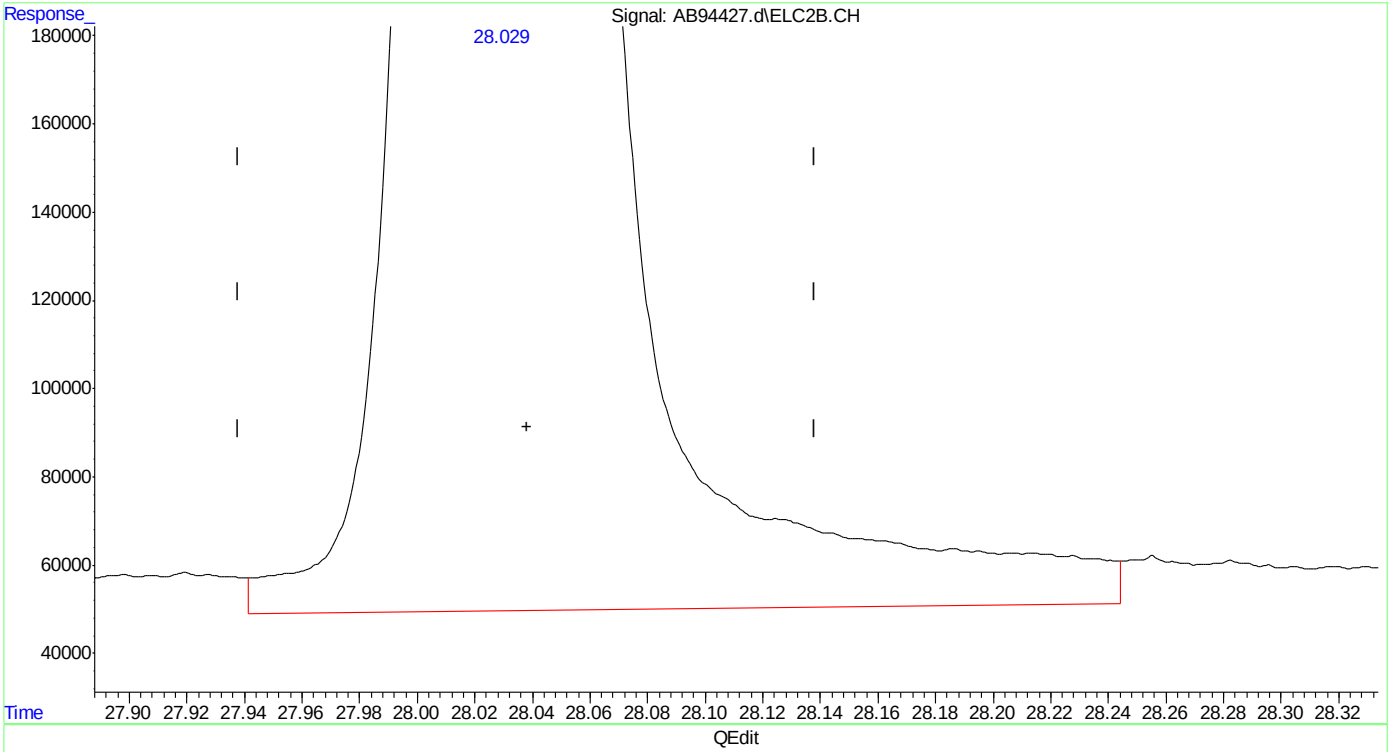
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94427.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 09:59:08
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 10:31:11 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.030min 49.241 ppb

response 35596743

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 10:31:51 2016





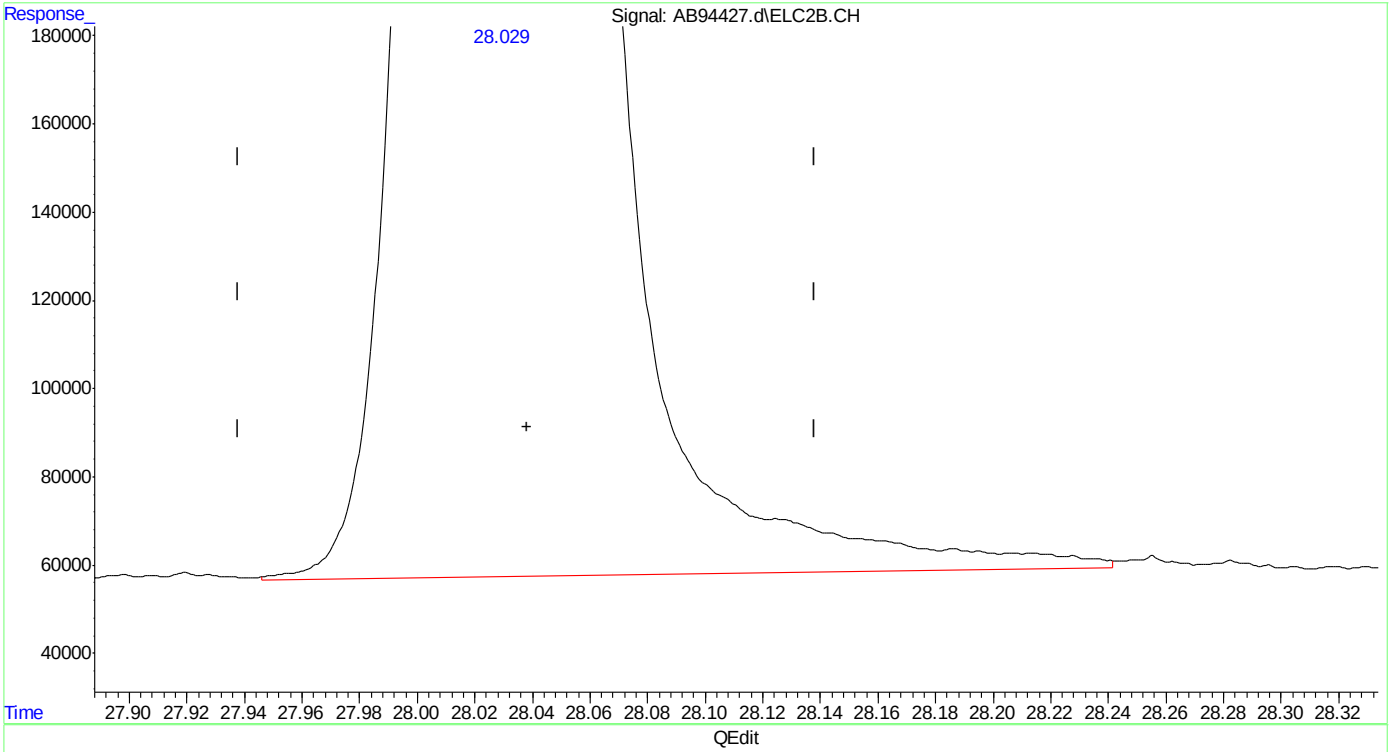
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94427.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 09:59:08
Operator  : tonyf
Sample    : bsp,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 3 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 10:31:11 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.029min 47.236 ppb m

response 34147755

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 10:31:57 2016

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 10:37:01
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:29:25 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.129 | 21128856 | 48.005 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 96.01% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 18832966 | 45.939 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 91.88% | | |
| 16) s fluorobenzene #2 | 15.127 | 36965323 | 43.889 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 87.78% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.183 | 19035737 | 40.772 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 81.54% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 16088720 | 40.071 | ppb | m |
| 2) h rt7/10 | 8.720 | 19011990 | 47.351 | ppb | m |
| 3) h rt10/13 | 13.870 | 21471047 | 53.476 | ppb | m |
| 8) h rt20/25 | 21.870 | 27155530 | 43.345 | ppb | m |
| 10) h decane | 24.200 | 28131578 | 44.903 | ppb | |
| 11) h butylcyclohexane | 25.240 | 29993890 | 47.875 | ppb | m |
| 14) mtbe #2 | 9.503 | 22896736 | 45.389 | ppb | m |
| 15) benzene #2 | 14.624 | 57095717 | 43.864 | ppb | |
| 17) toluene #2 | 19.084 | 49004070 | 42.863 | ppb | |
| 19) ethylbenzene #2 | 22.183 | 40233538 | 43.456 | ppb | |
| 20) m,p-xylene #2 | 22.327 | 96761835 | 91.223 | ppb | |
| 21) o-xylene #2 | 23.133 | 39848378 | 42.658 | ppb | |
| 22) t 1,3,5-trimethylbenzen... | 24.567 | 51744797 | 39.605 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.086 | 40069931 | 41.869 | ppb | |
| 24) naphthalene #2 | 28.031 | 32978777 | 45.619 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 40087519 | 41.843 | ppb | m |

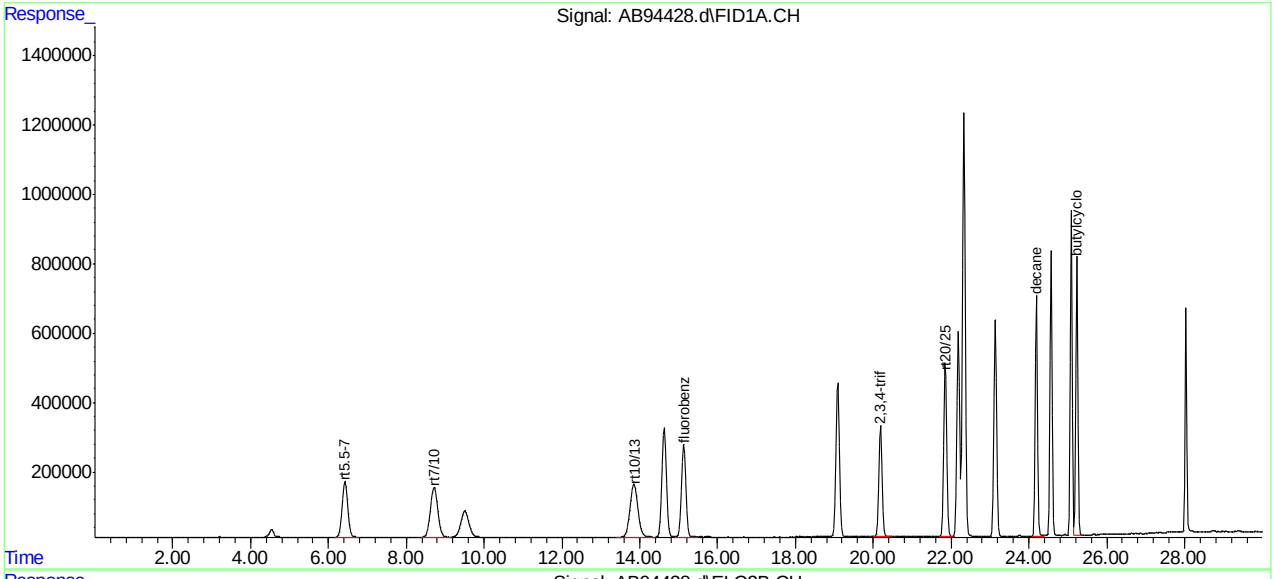
(f)=RT Delta > 1/2 Window (m)=manual int.

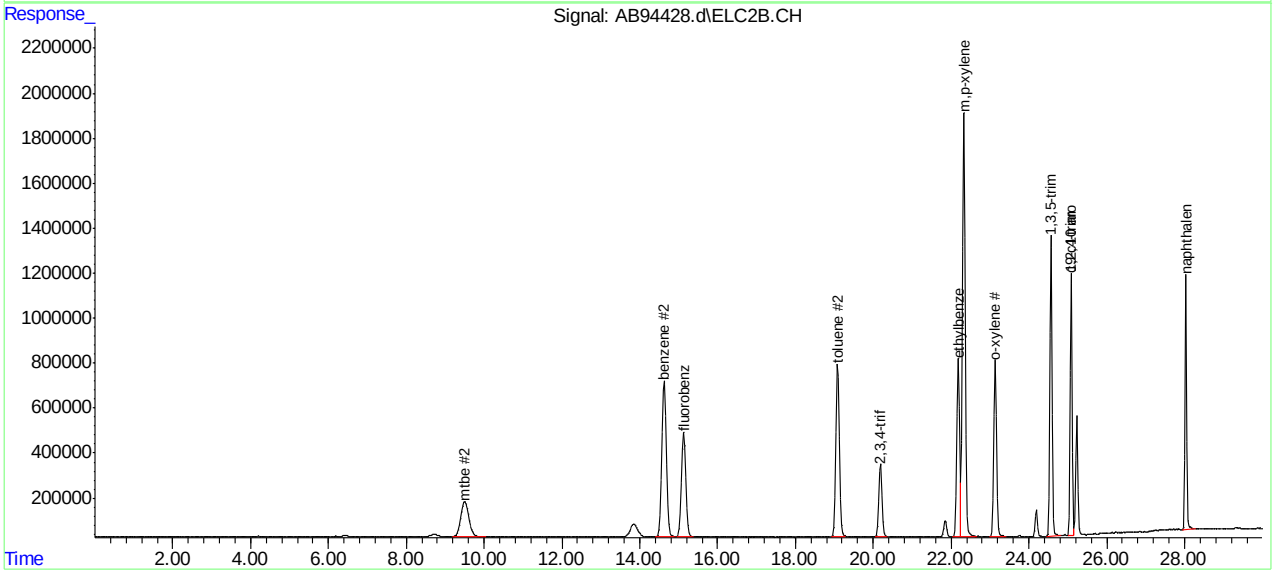
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 10:37:01
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:29:25 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

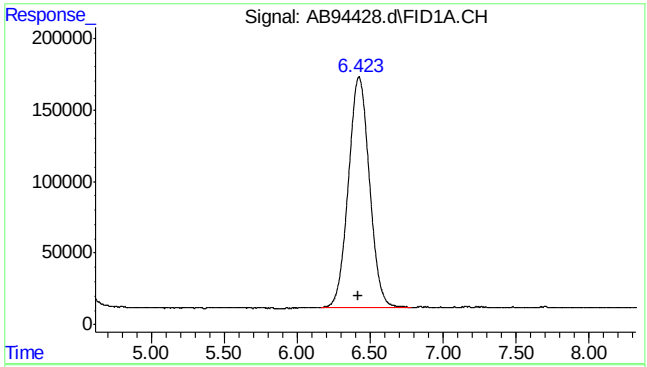
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



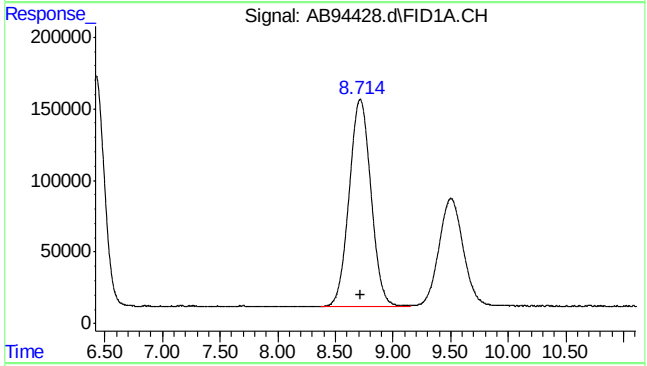



SGS ACCUTEST MC46487



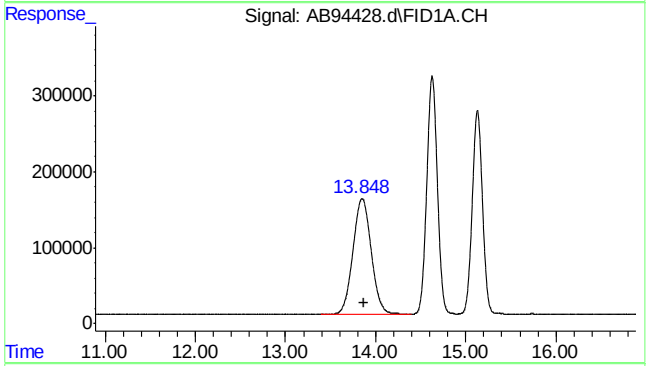

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16088720
Conc: 40.07 ppb m



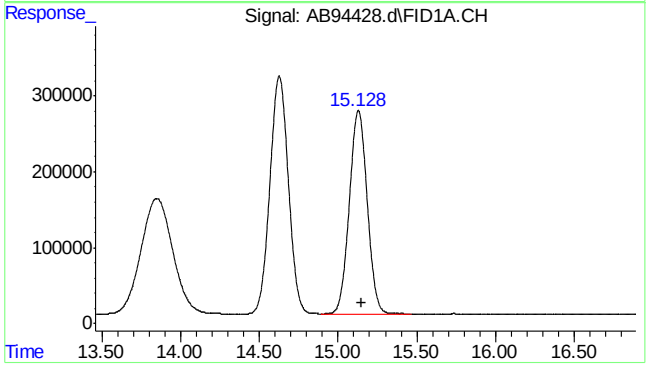

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 19011990
Conc: 47.35 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21471047
Conc: 53.48 ppb m




#4 fluorobenzene

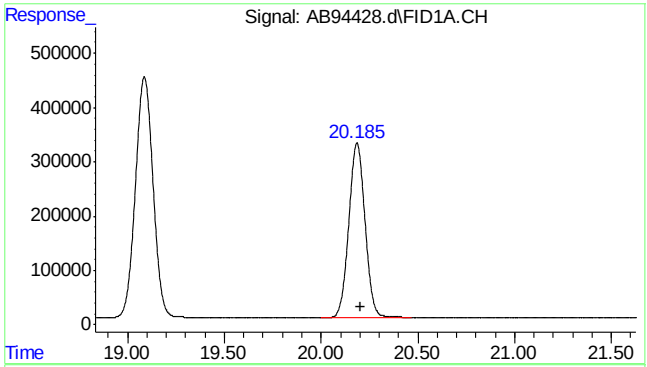
R.T.: 15.129 min
Delta R.T.: -0.022 min
Response: 21128856
Conc: 48.00 ppb

7.3.2

7

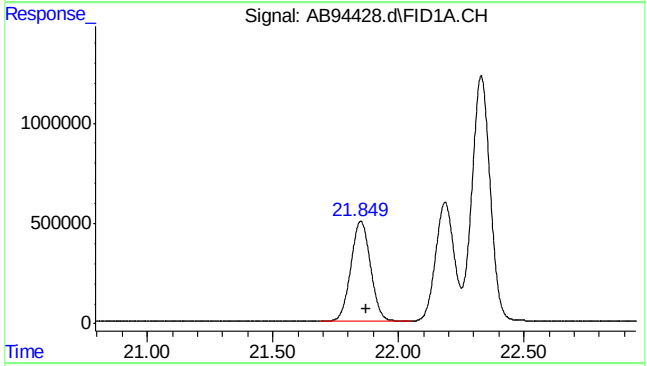


SGS ACCUTEST MC46487



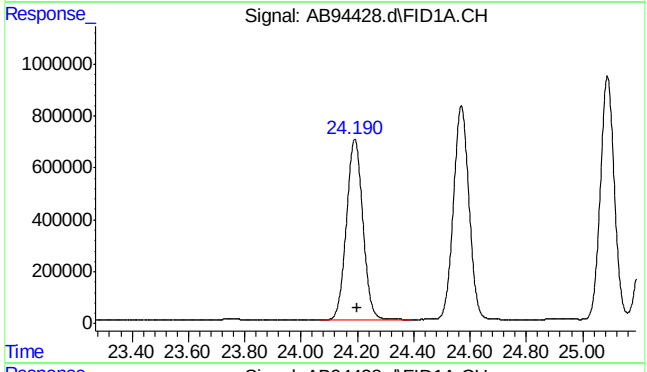

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.020 min
Response: 18832966
Conc: 45.94 ppb



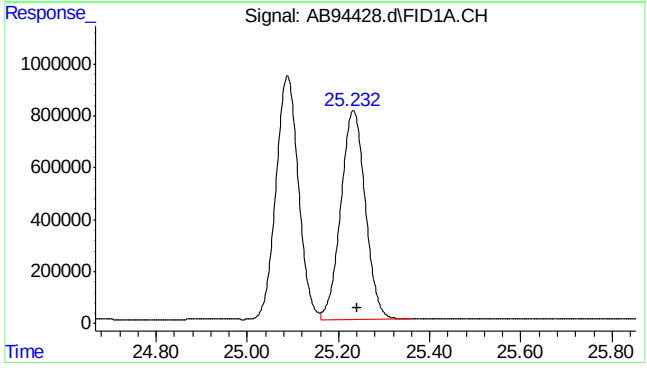

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 27155530
Conc: 43.34 ppb m




#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 28131578
Conc: 44.90 ppb




#11 butylcyclohexane

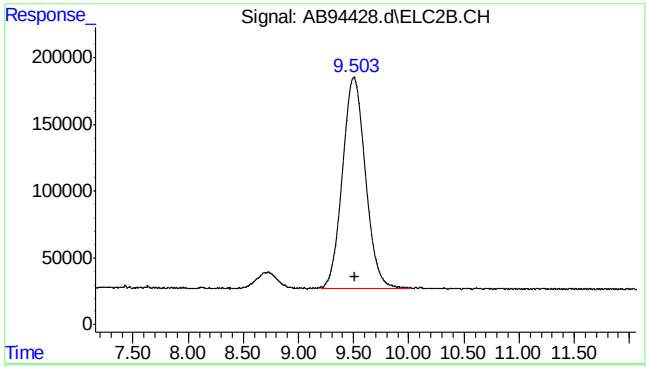
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29993890
Conc: 47.88 ppb m

7.3.2

7

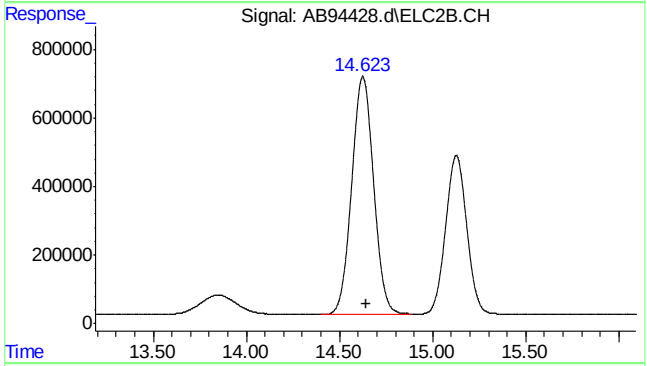


SGS ACCUTEST MC46487



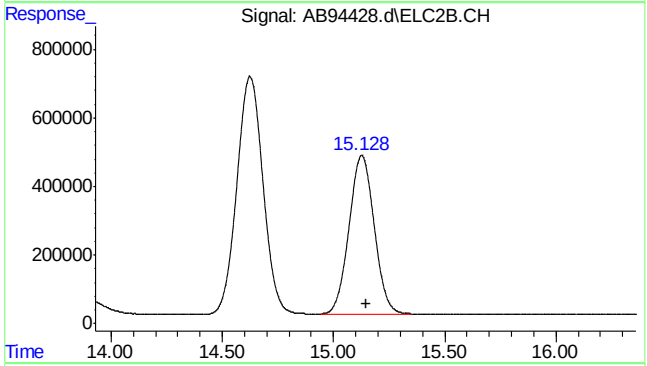

#14 mtbe #2

R.T.: 9.503 min
Delta R.T.: -0.008 min
Response: 22896736
Conc: 45.39 ppb m



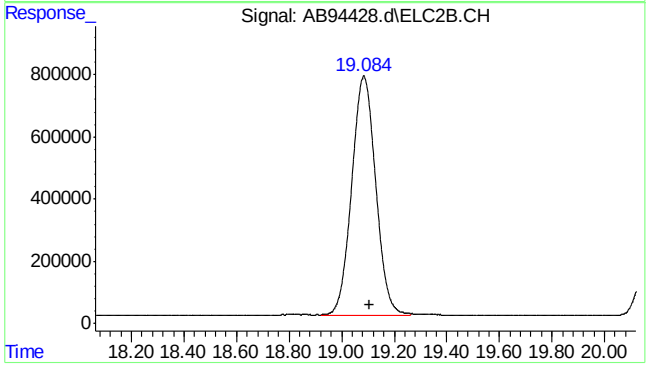

#15 benzene #2

R.T.: 14.624 min
Delta R.T.: -0.022 min
Response: 57095717
Conc: 43.86 ppb




#16 fluorobenzene #2

R.T.: 15.127 min
Delta R.T.: -0.021 min
Response: 36965323
Conc: 43.89 ppb



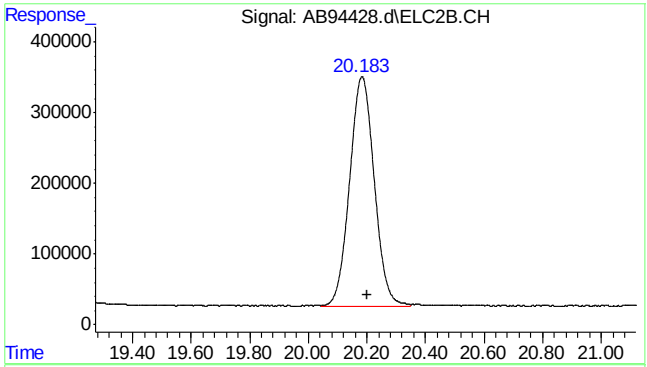

#17 toluene #2

R.T.: 19.084 min
Delta R.T.: -0.022 min
Response: 49004070
Conc: 42.86 ppb



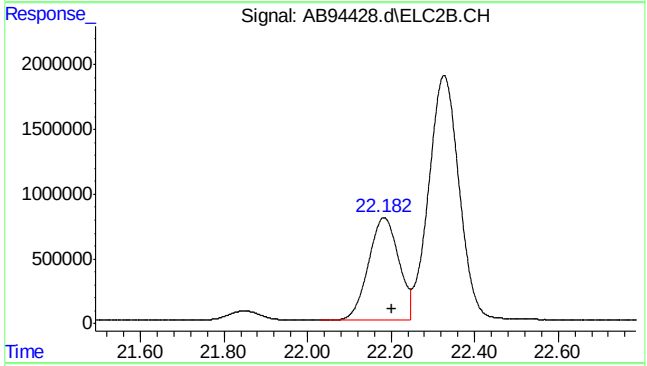


SGS ACCUTEST MC46487



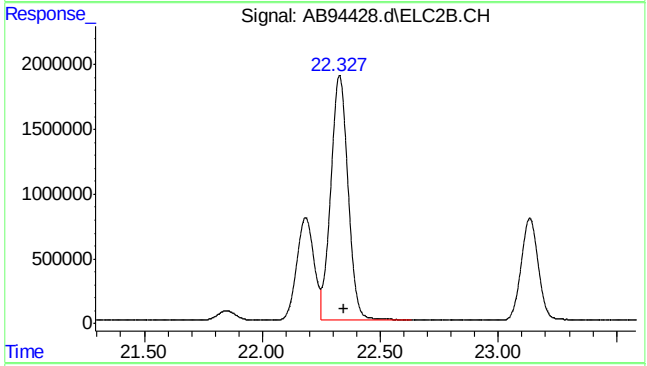

#18 2,3,4-trifluorotoluene #2

R.T.: 20.183 min
Delta R.T.: -0.020 min
Response: 19035737
Conc: 40.77 ppb



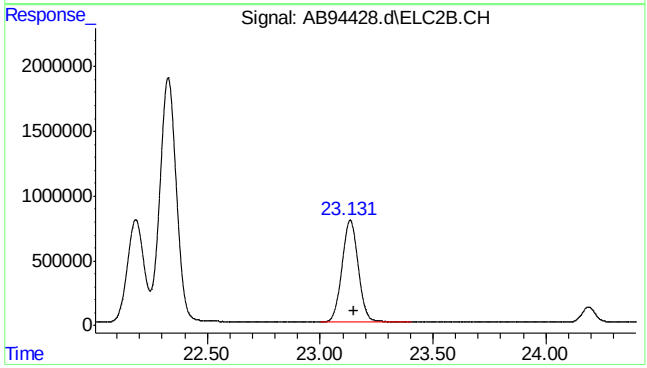

#19 ethylbenzene #2

R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 40233538
Conc: 43.46 ppb




#20 m,p-xylene #2

R.T.: 22.327 min
Delta R.T.: -0.017 min
Response: 96761835
Conc: 91.22 ppb



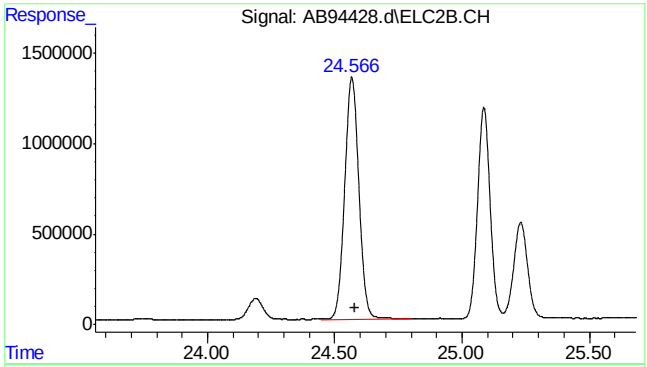

#21 o-xylene #2

R.T.: 23.133 min
Delta R.T.: -0.017 min
Response: 39848378
Conc: 42.66 ppb



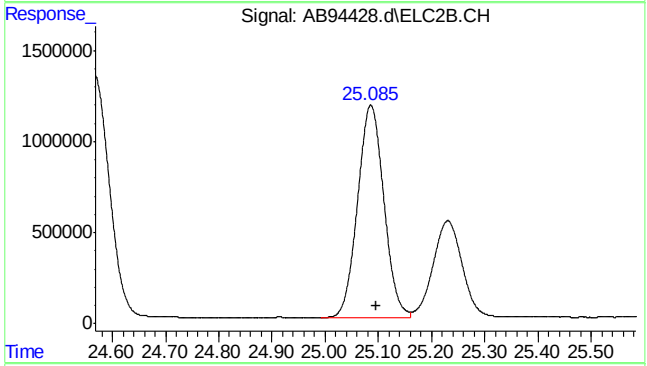


SGS ACCUTEST MC46487



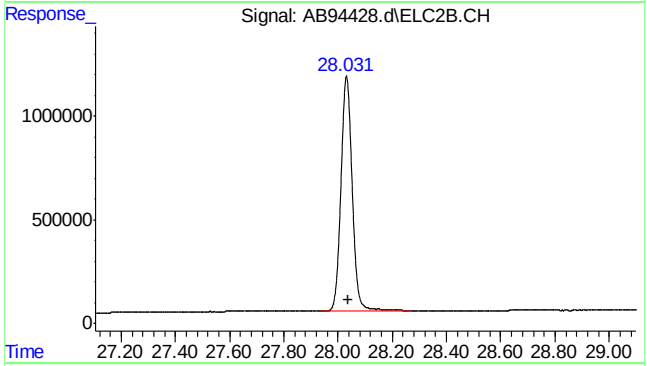

#22 1,3,5-trimethylbenzene #2

R.T.: 24.567 min
Delta R.T.: -0.012 min
Response: 51744797
Conc: 39.61 ppb



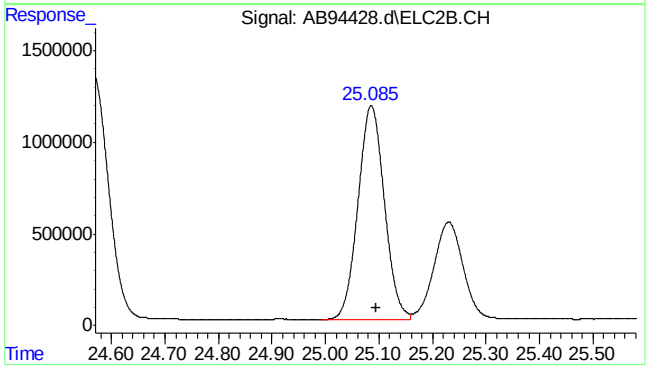

#23 1,2,4-trimethylbenzene #2

R.T.: 25.086 min
Delta R.T.: -0.010 min
Response: 40069931
Conc: 41.87 ppb




#24 naphthalene #2

R.T.: 28.031 min
Delta R.T.: -0.007 min
Response: 32978777
Conc: 45.62 ppb m




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

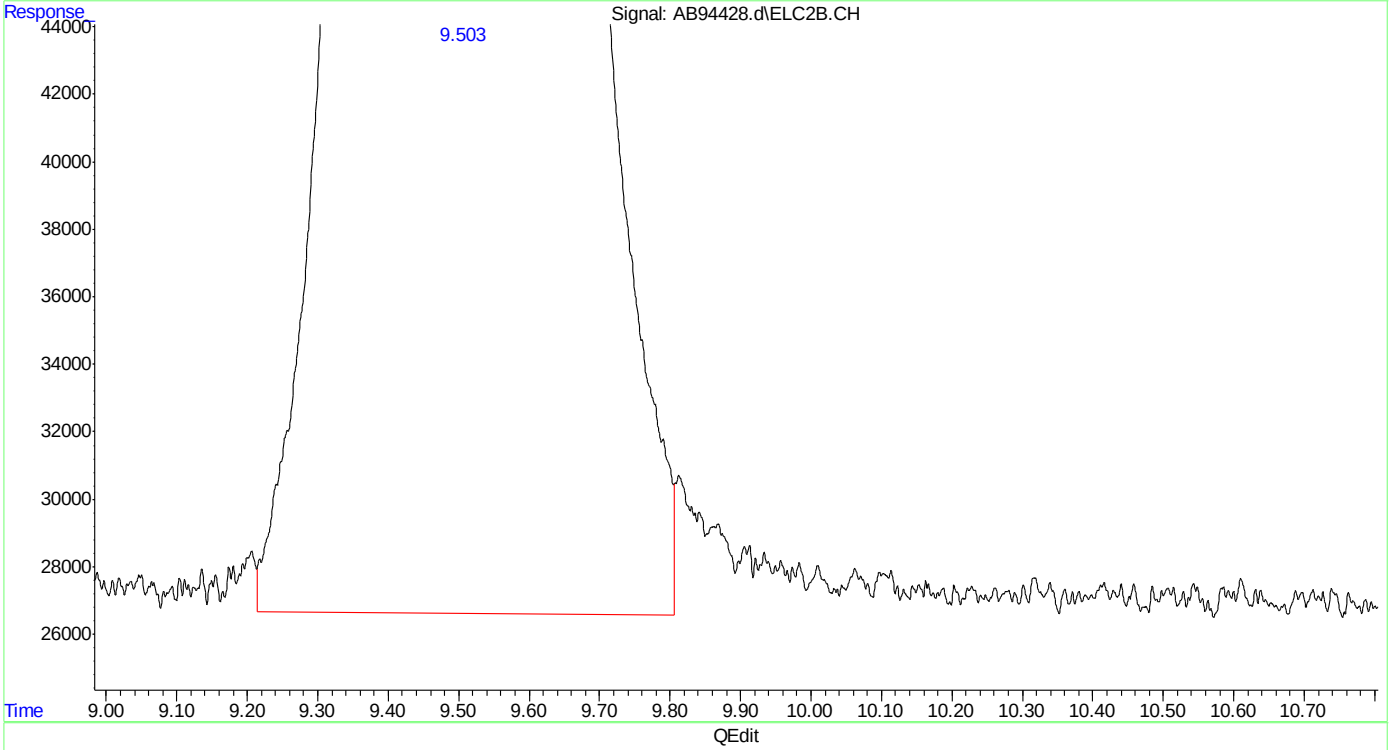
R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 40087519
Conc: 41.84 ppb m

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 10:37:01
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:27:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.503min 45.499 ppb
response 22952054

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 11:28:52 2016





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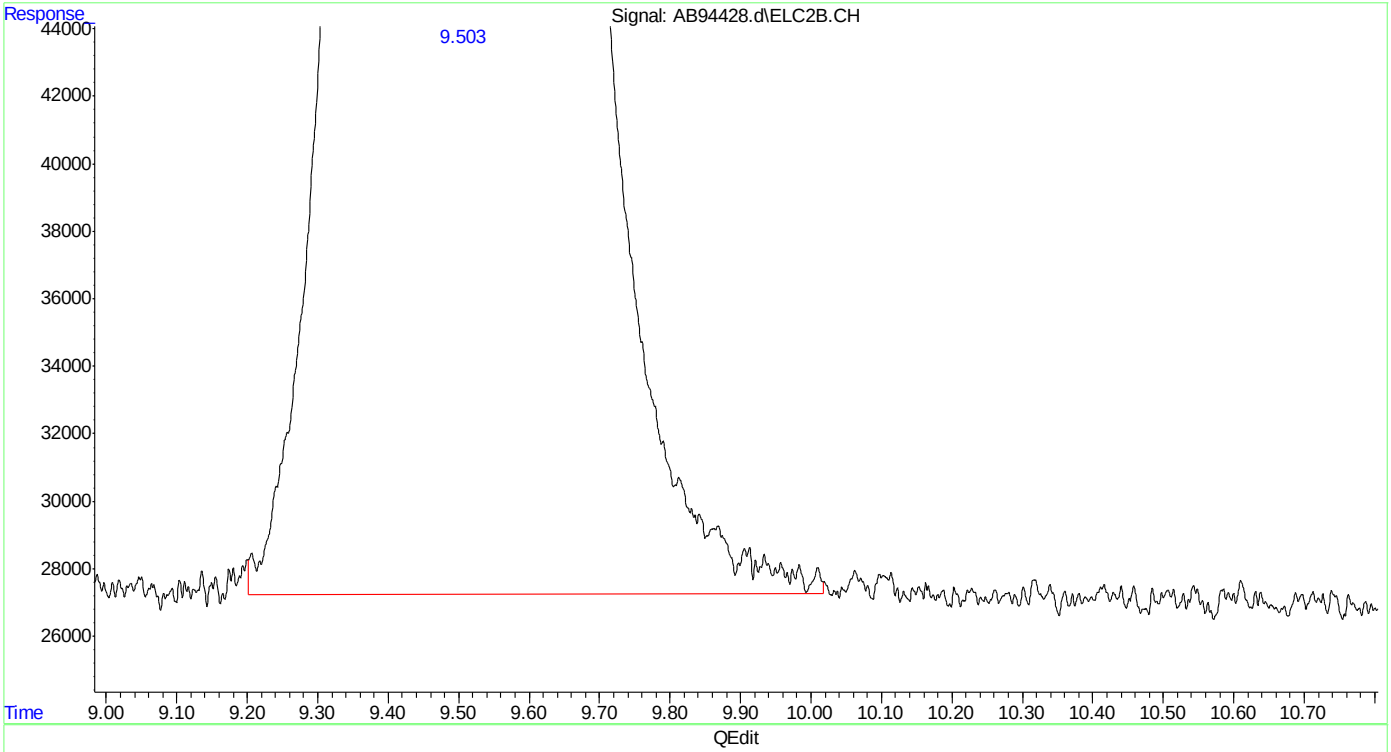
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 10:37:01
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:27:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.503min 45.389 ppb m

response 22896736

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 11:29:00 2016



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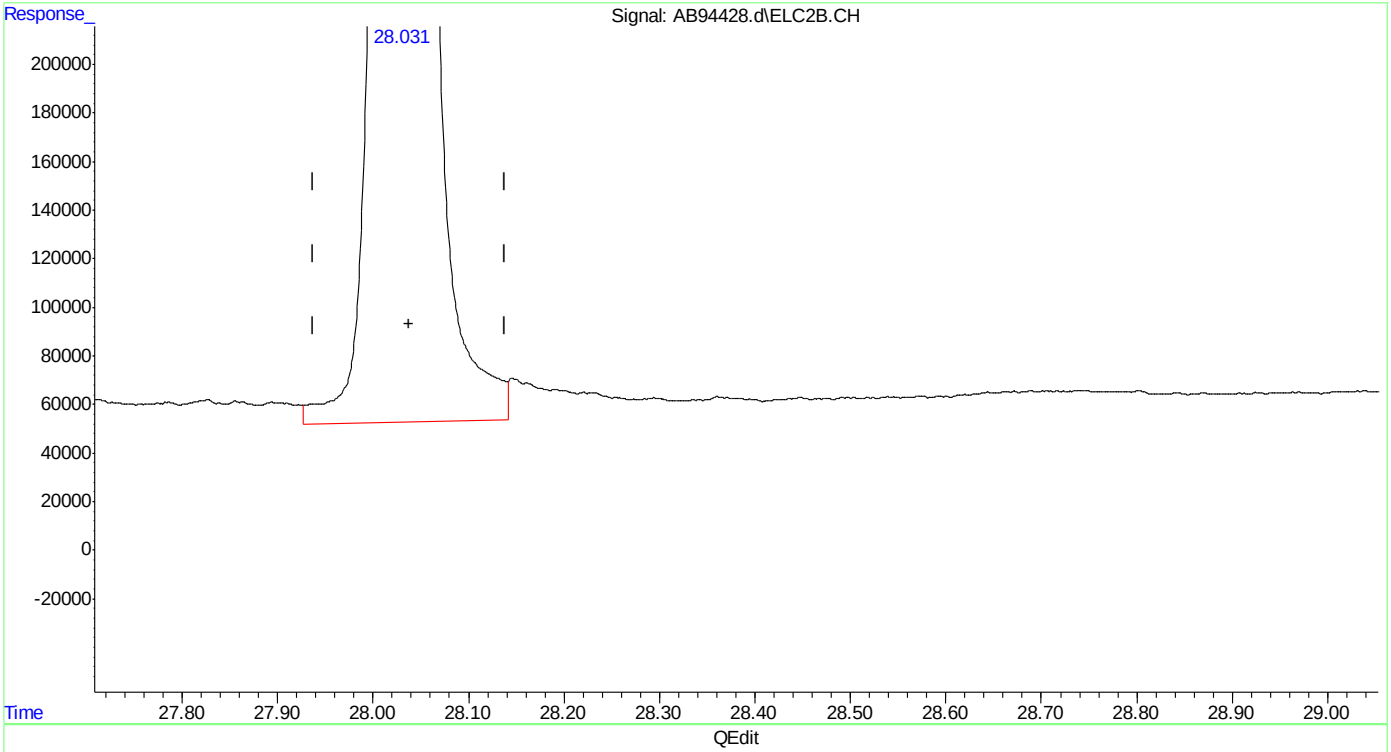
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 10:37:01
Operator  : tonyf
Sample    : bsd,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 4 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:27:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.031min 46.489 ppb

response 33607468

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 11:29:10 2016



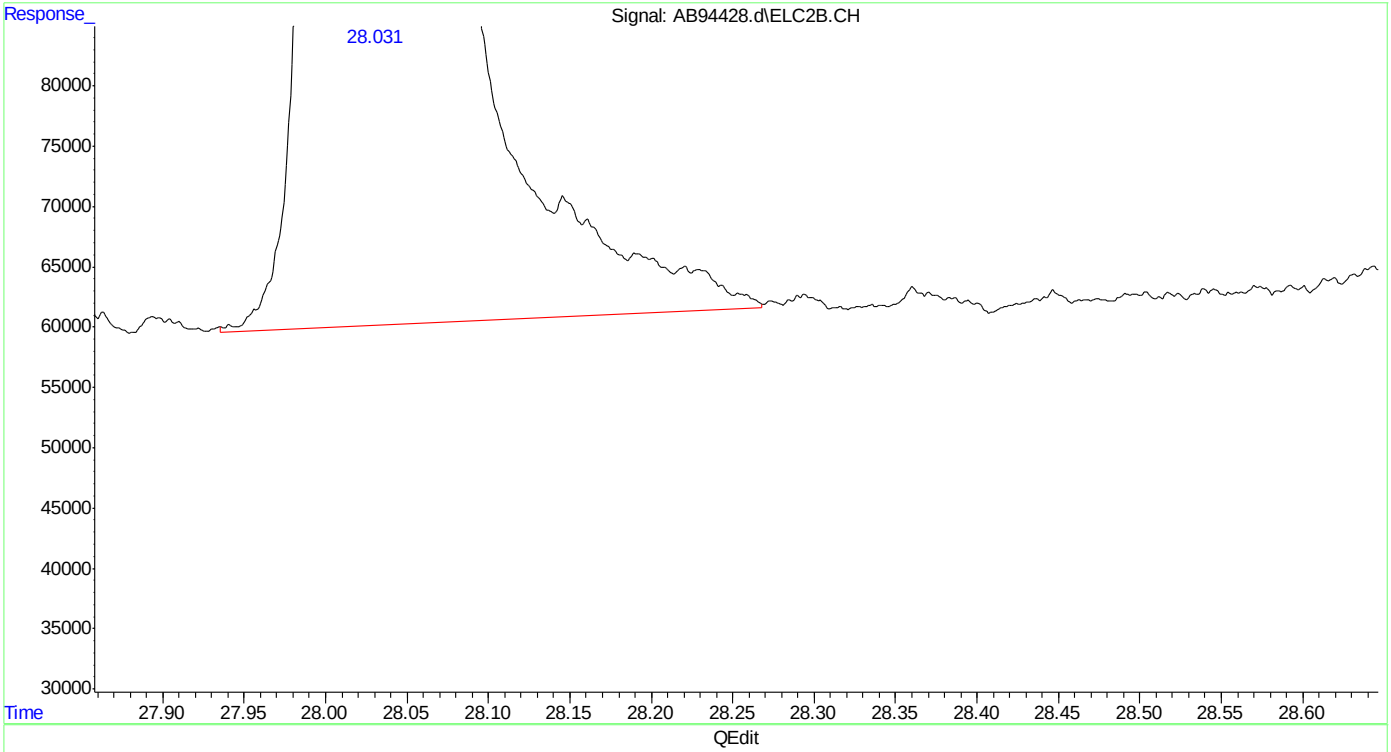
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94428.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 10:37:01
Operator : tonyf
Sample : bsd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 11:27:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.031min 45.619 ppb m
response 32978777

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 11:29:18 2016





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Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 11:53:16
Operator : tonyf
Sample : mc46489-2ms,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:51:05 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.131 | 21450115 | 48.735 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 97.47% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 18953855 | 46.234 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 92.47% | | |
| 16) s fluorobenzene #2 | 15.127 | 37587203 | 44.627 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 89.25% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 19528153 | 41.827 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 83.65% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 44940300 | 111.928 | ppb | m |
| 2) h rt7/10 | 8.720 | 38766737 | 96.553 | ppb | m |
| 3) h rt10/13 | 13.870 | 83590601 | 208.191 | ppb | m |
| 8) h rt20/25 | 21.870 | 271303924 | 433.045 | ppb | m |
| 14) mtbe #2 | 9.495 | 24142619 | 47.859 | ppb | m |
| 15) benzene #2 | 14.625 | 58058862 | 44.604 | ppb | |
| 17) toluene #2 | 19.085 | 50017735 | 43.749 | ppb | |
| 19) ethylbenzene #2 | 22.183 | 40569512 | 43.819 | ppb | |
| 20) m,p-xylene #2 | 22.327 | 94704918 | 89.284 | ppb | |
| 21) o-xylene #2 | 23.133 | 39395798 | 42.173 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.086 | 29103088 | 30.410 | ppb | |
| 24) naphthalene #2 | 28.030 | 34809023 | 48.151 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 119320686 | 124.546 | ppb | m |

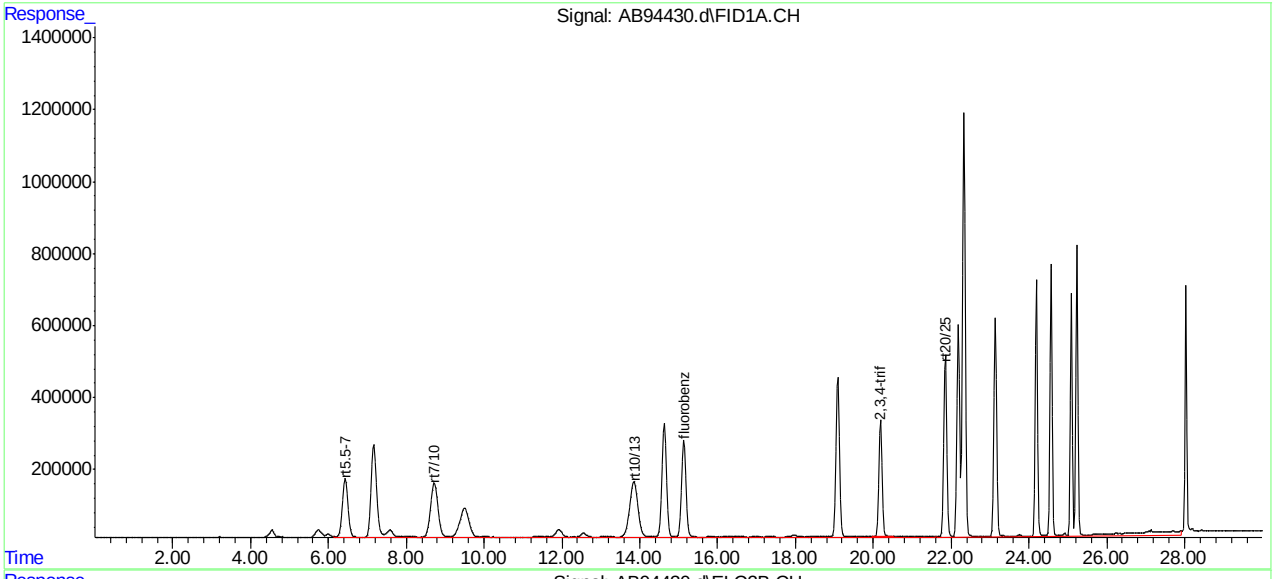
(f)=RT Delta > 1/2 Window (m)=manual int.

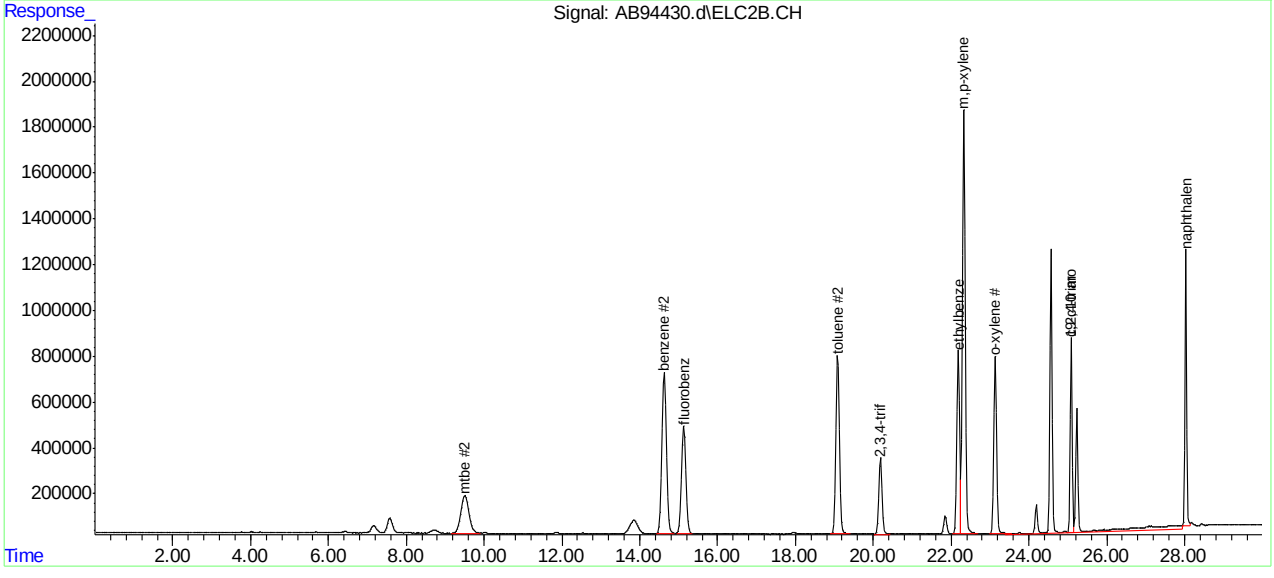
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 11:53:16
Operator : tonyf
Sample : mc46489-2ms,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 5 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

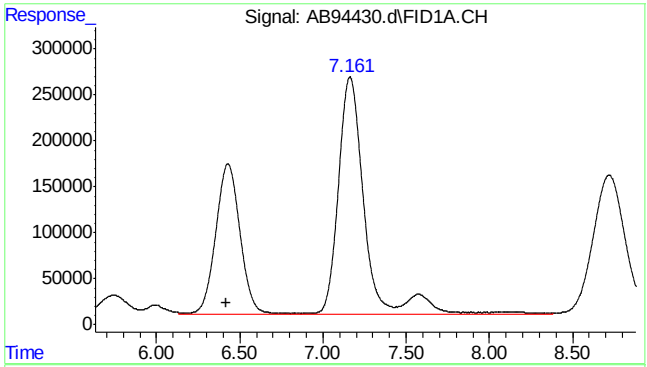
Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:51:05 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



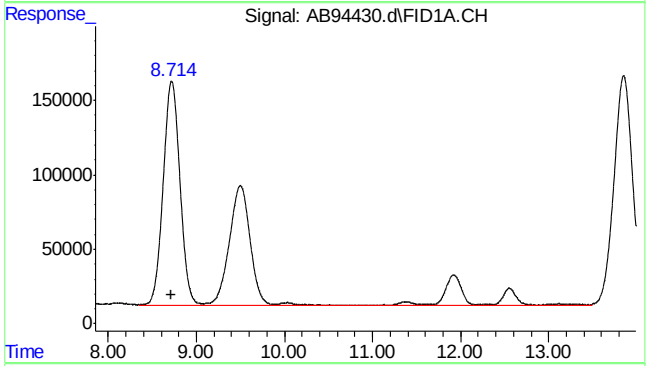




ab160622vph.M Thu Jun 23 13:52:53 2016 Page: 2



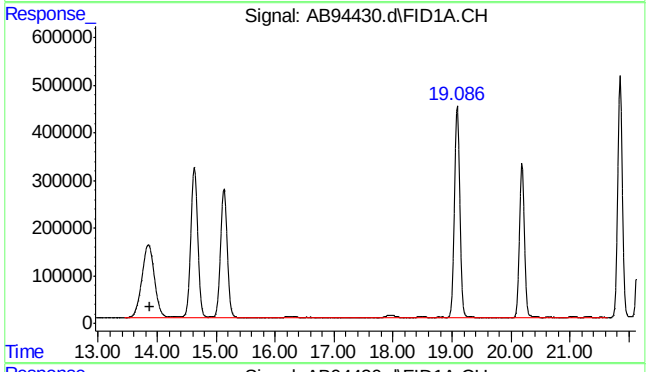

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 44940300
Conc: 111.93 ppb m



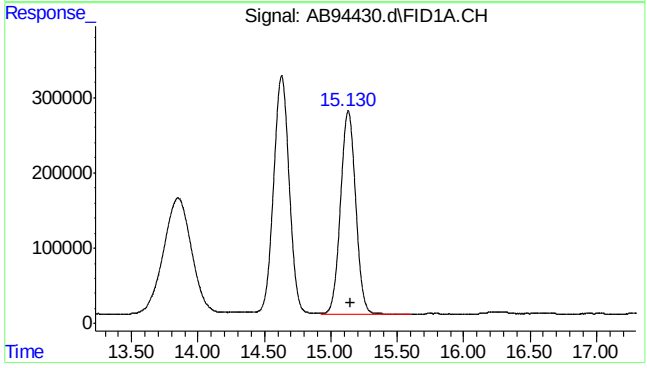

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 38766737
Conc: 96.55 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 83590601
Conc: 208.19 ppb m




#4 fluorobenzene

R.T.: 15.131 min
Delta R.T.: -0.021 min
Response: 21450115
Conc: 48.73 ppb

7.4.1

7



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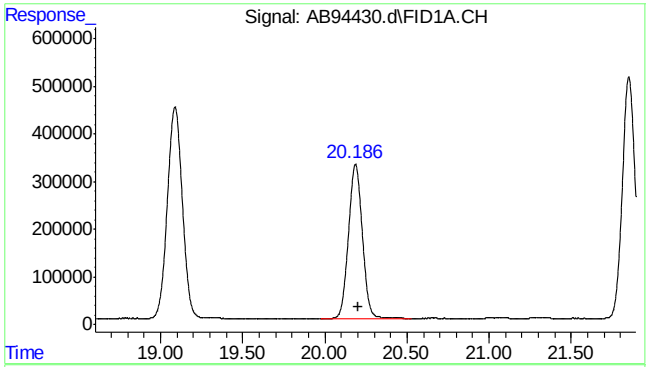
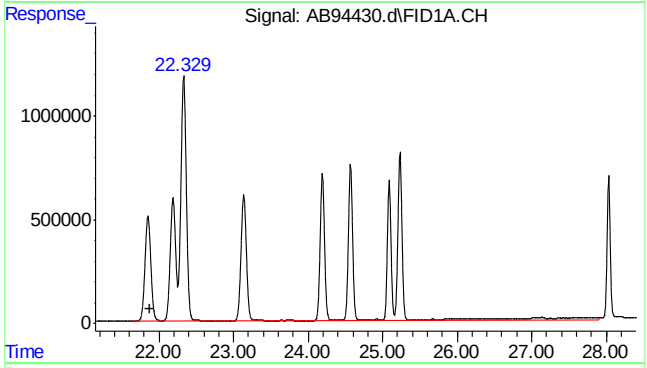


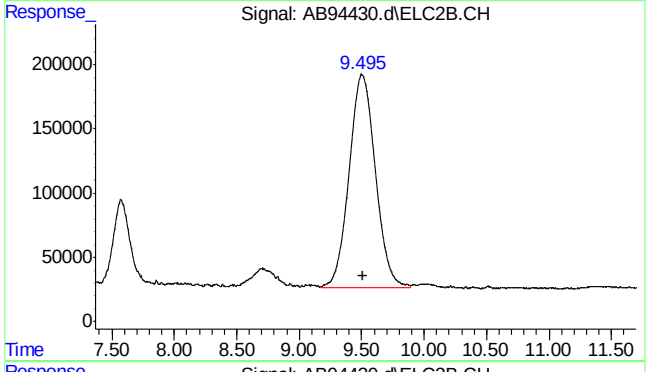

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.019 min
Response: 18953855
Conc: 46.23 ppb



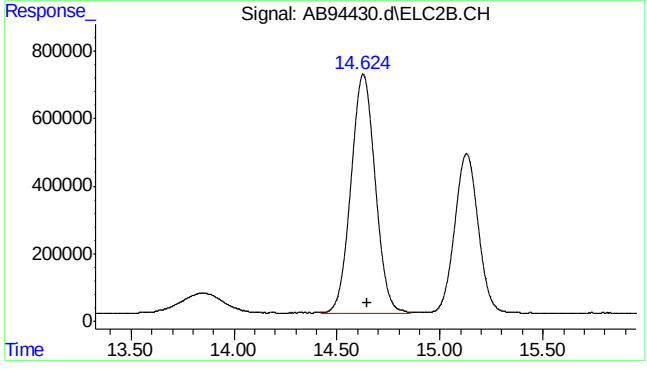

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 271303924
Conc: 433.04 ppb m




#14 mtbe #2

R.T.: 9.495 min
Delta R.T.: -0.016 min
Response: 24142619
Conc: 47.86 ppb m




#15 benzene #2

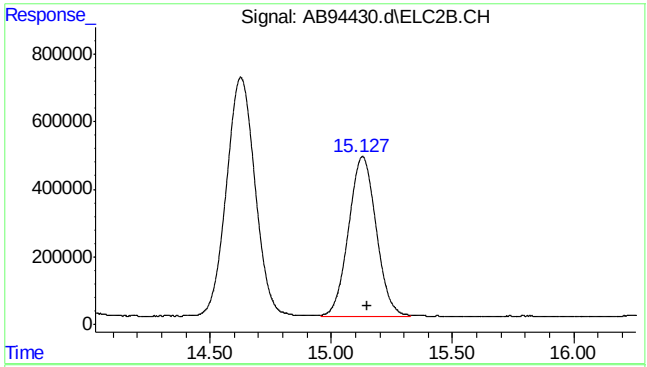
R.T.: 14.625 min
Delta R.T.: -0.021 min
Response: 58058862
Conc: 44.60 ppb

7.4.1

7

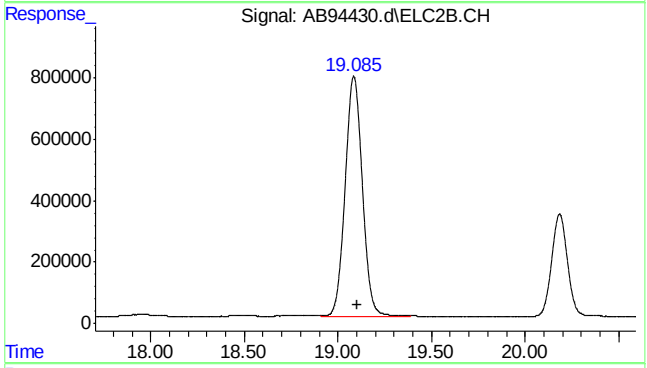


SGS ACCUTEST MC46487



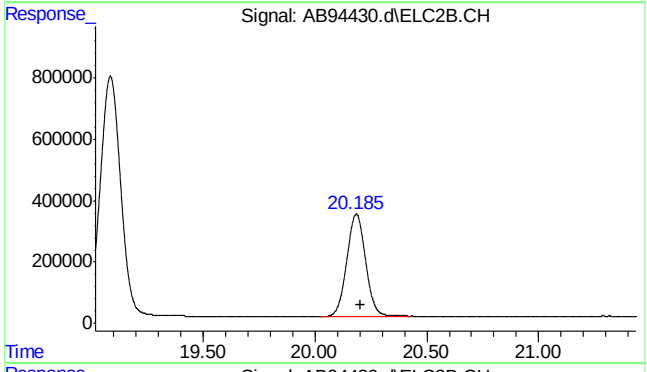

#16 fluorobenzene #2

R.T.: 15.127 min
Delta R.T.: -0.021 min
Response: 37587203
Conc: 44.63 ppb



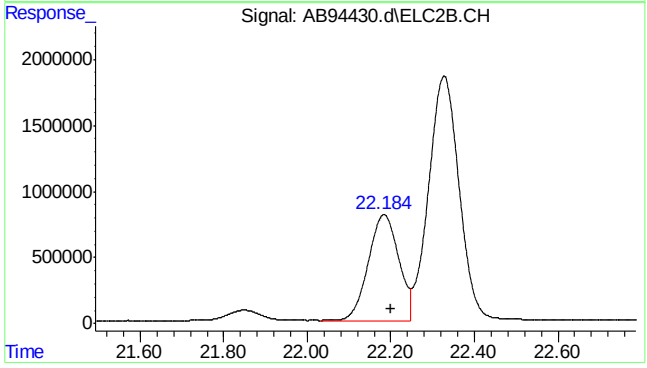

#17 toluene #2

R.T.: 19.085 min
Delta R.T.: -0.021 min
Response: 50017735
Conc: 43.75 ppb



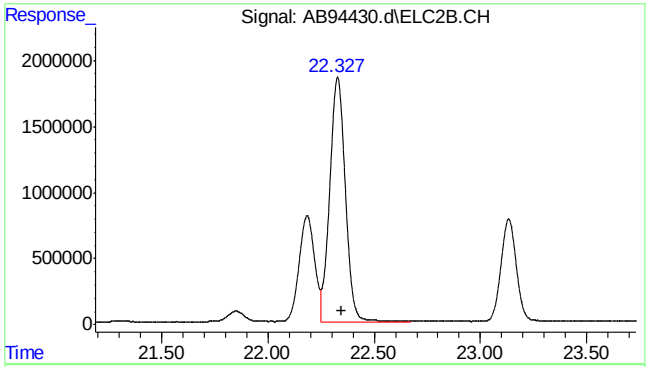

#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 19528153
Conc: 41.83 ppb



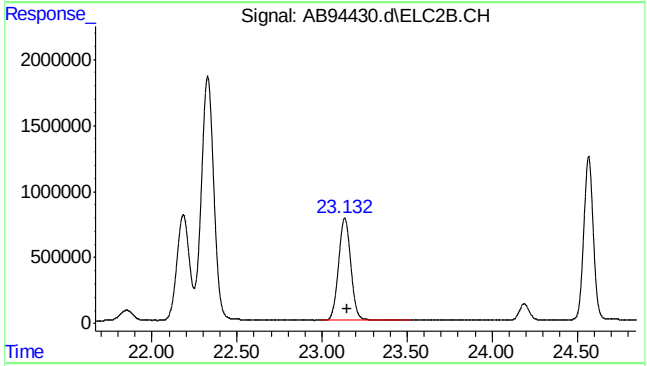

#19 ethylbenzene #2

R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 40569512
Conc: 43.82 ppb



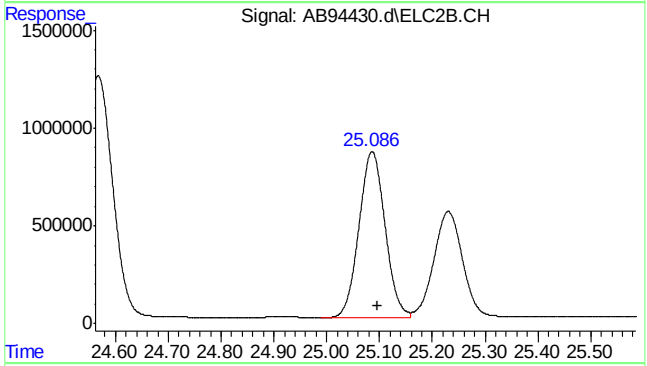

#20 m,p-xylene #2

R.T.: 22.327 min
Delta R.T.: -0.017 min
Response: 94704918
Conc: 89.28 ppb



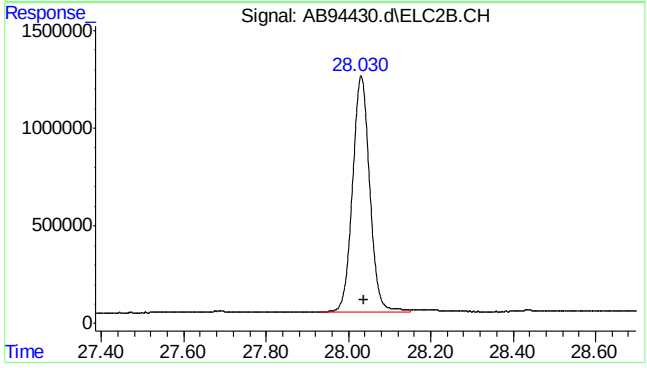

#21 o-xylene #2

R.T.: 23.133 min
Delta R.T.: -0.017 min
Response: 39395798
Conc: 42.17 ppb




#23 1,2,4-trimethylbenzene #2

R.T.: 25.086 min
Delta R.T.: -0.010 min
Response: 29103088
Conc: 30.41 ppb




#24 naphthalene #2

R.T.: 28.030 min
Delta R.T.: -0.008 min
Response: 34809023
Conc: 48.15 ppb m

7.4.1

7



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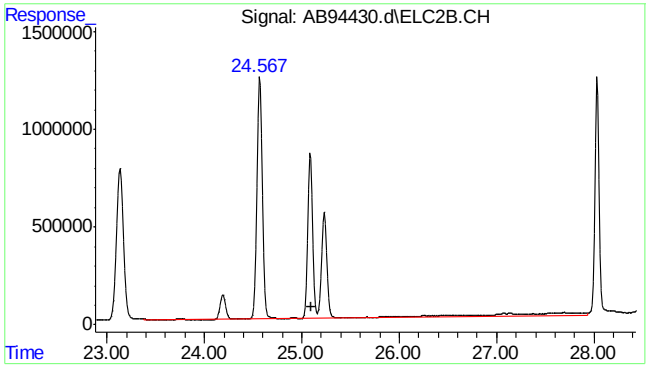


#25 c9-c10 arom as 1,2,4-tmb

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 119320686
Conc: 124.55 ppb m

7.4.1

7



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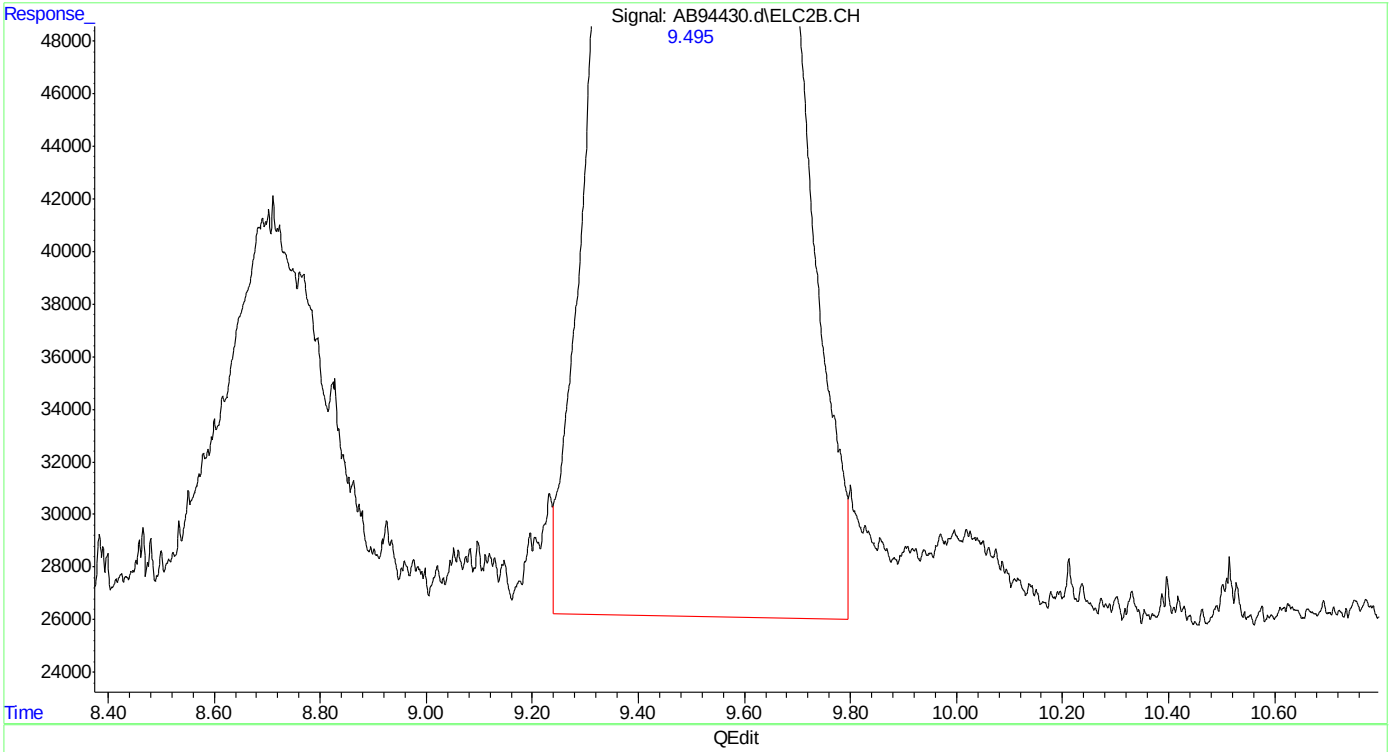
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 12:36:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.496min 47.920 ppb

response 24173615

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 12:40:31 2016



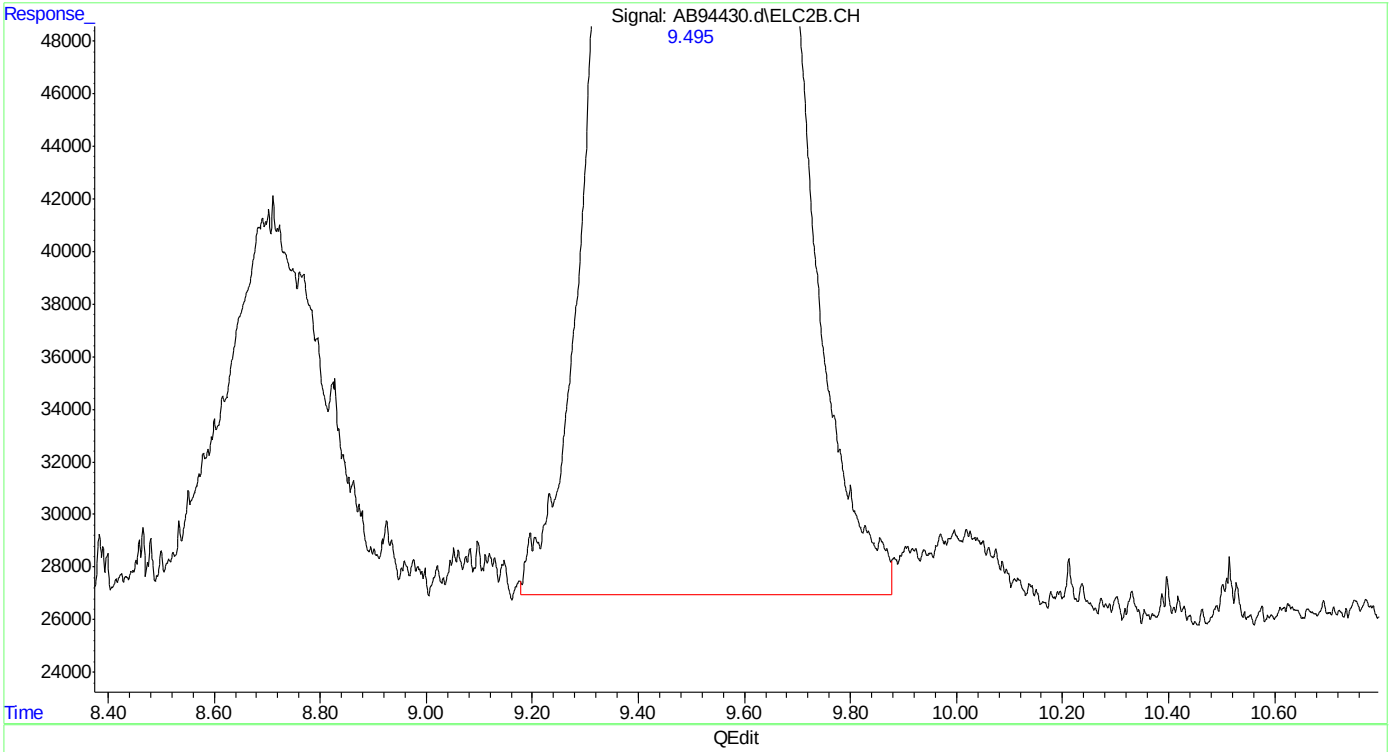
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 12:36:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.495min 47.744 ppb m

response 24084617

(+) = Expected Retention Time

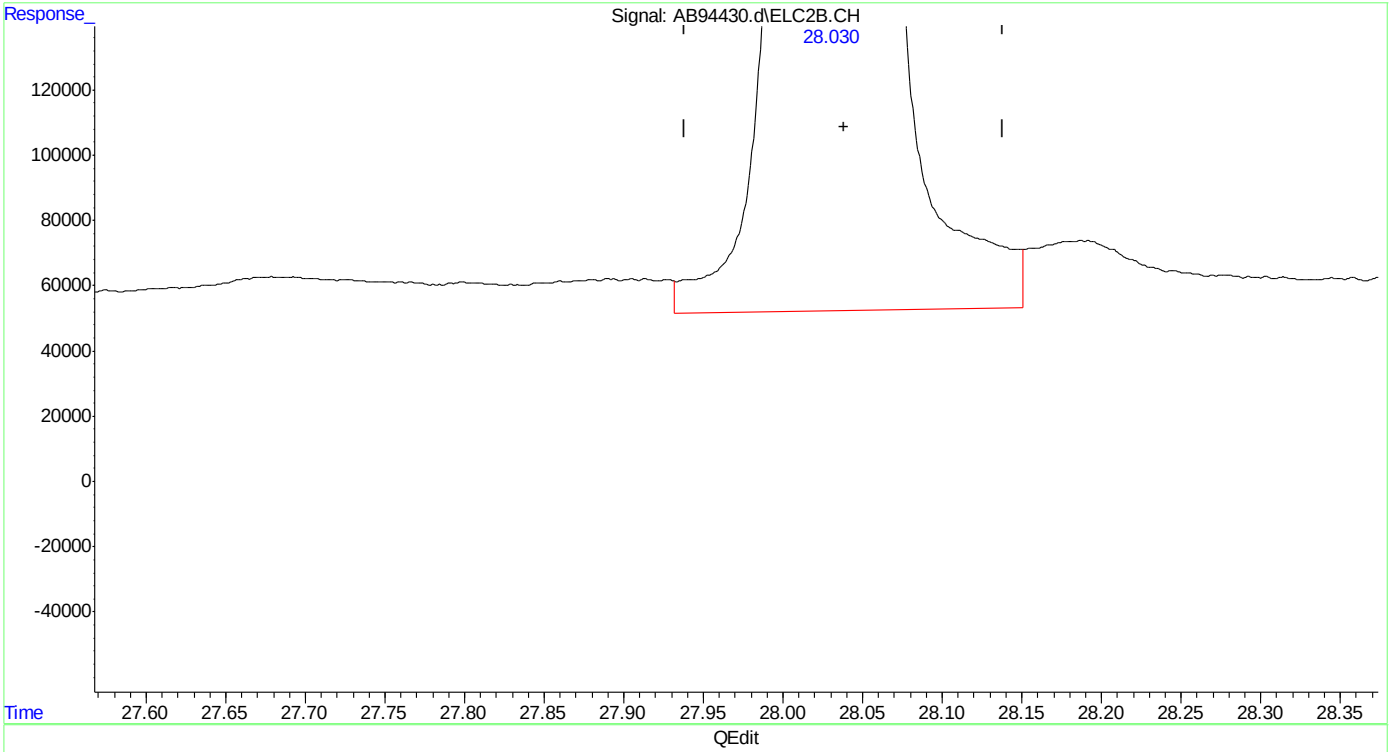
ab160622vph.M Wed Jun 22 12:40:36 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 12:36:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.031min 49.849 ppb

response 36036692

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 12:40:49 2016



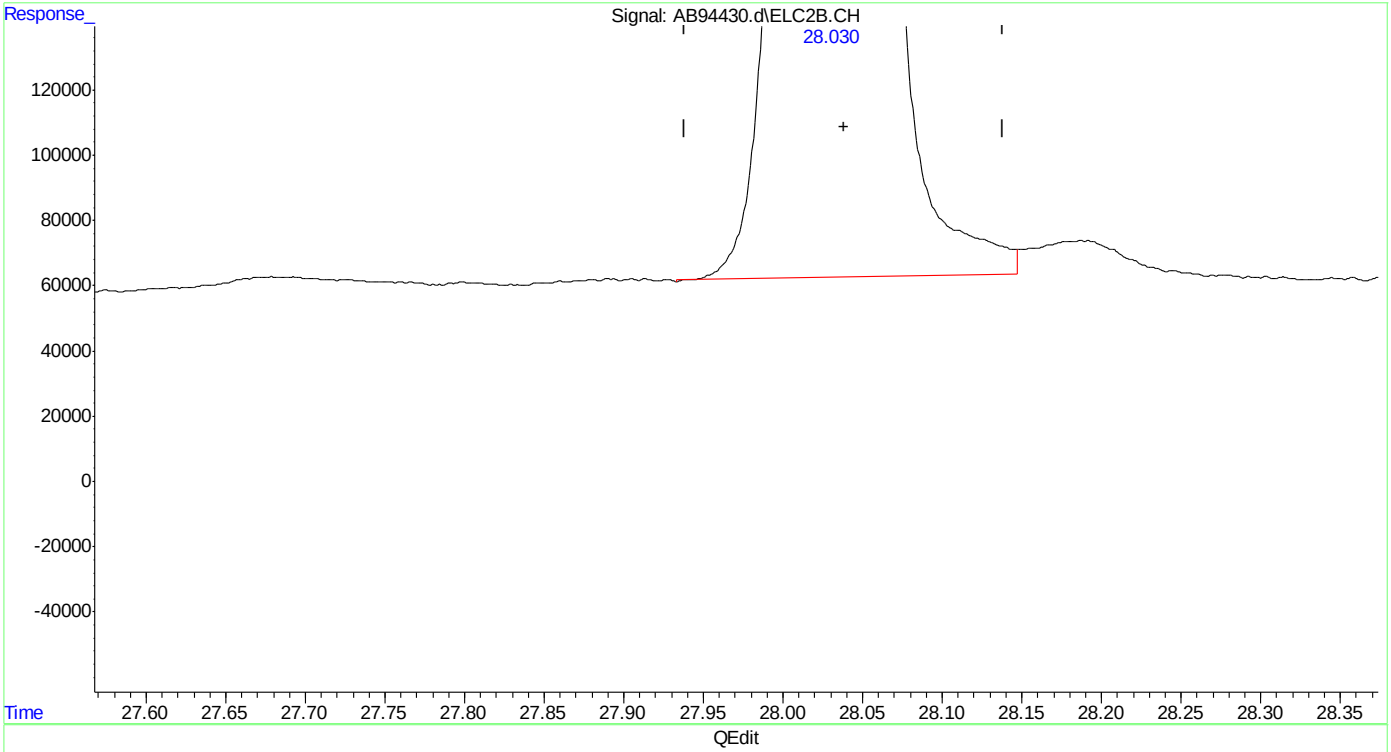
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 12:36:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.030min 47.962 ppb m

response 34672469

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 12:40:55 2016





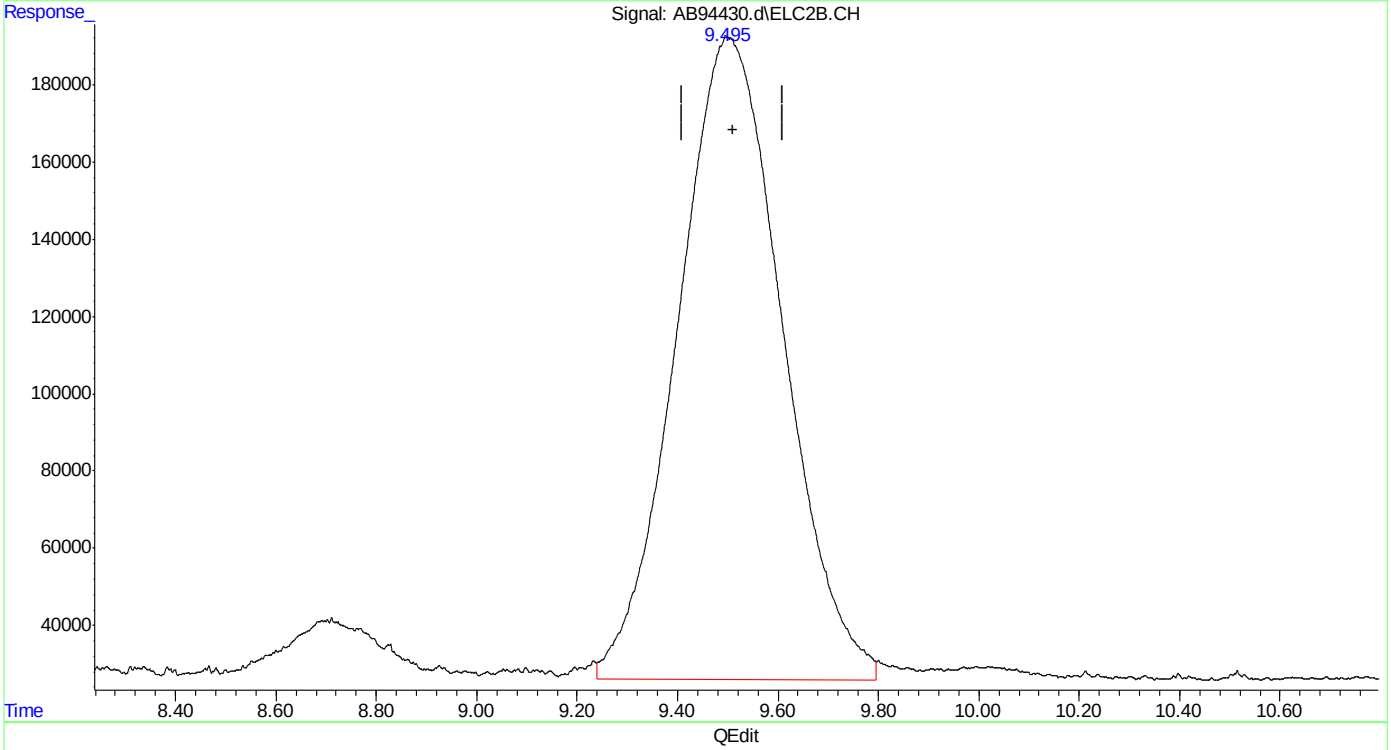
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:17 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.496min 47.920 ppb

response 24173615

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:50:33 2016



SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:17 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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

(14) mtbe #2

9.495min 47.859 ppb m

response 24142619

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:50:39 2016



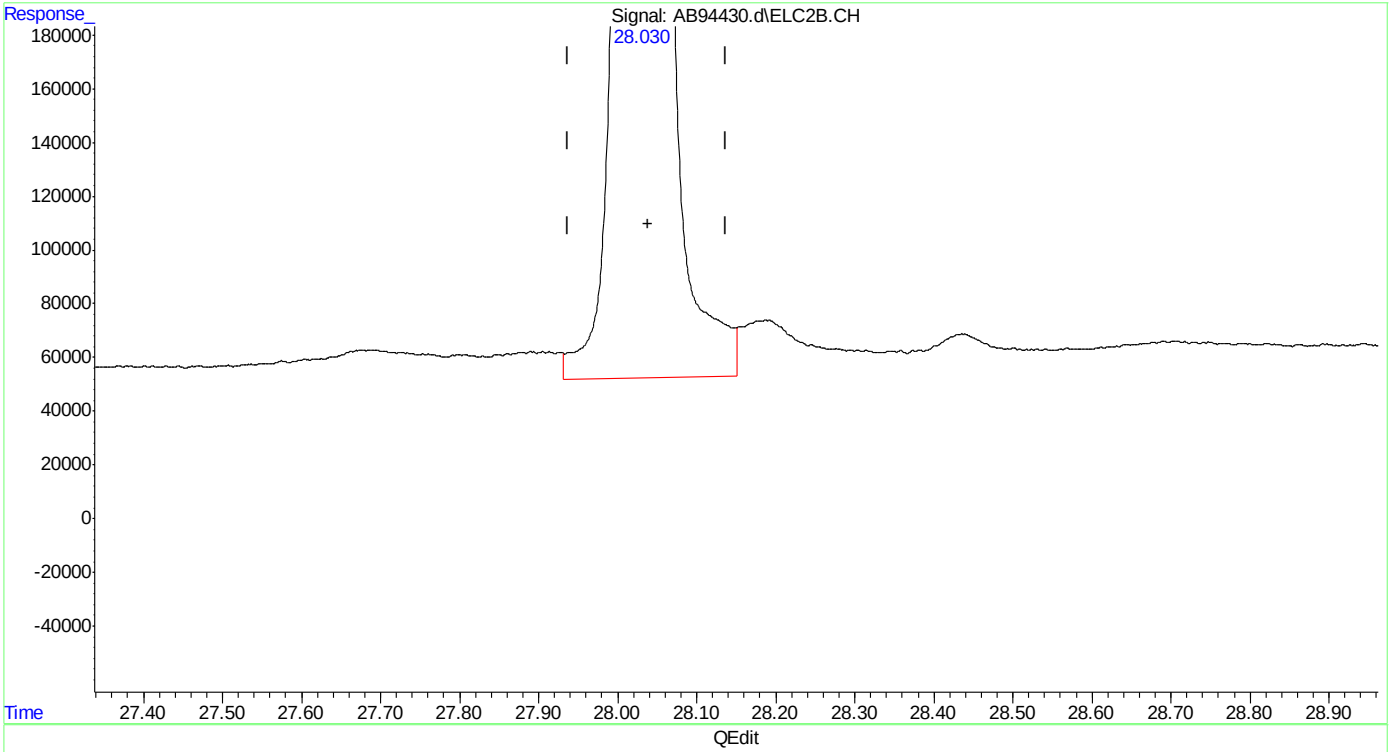
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:17 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.031min 49.849 ppb

response 36036692

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:50:53 2016



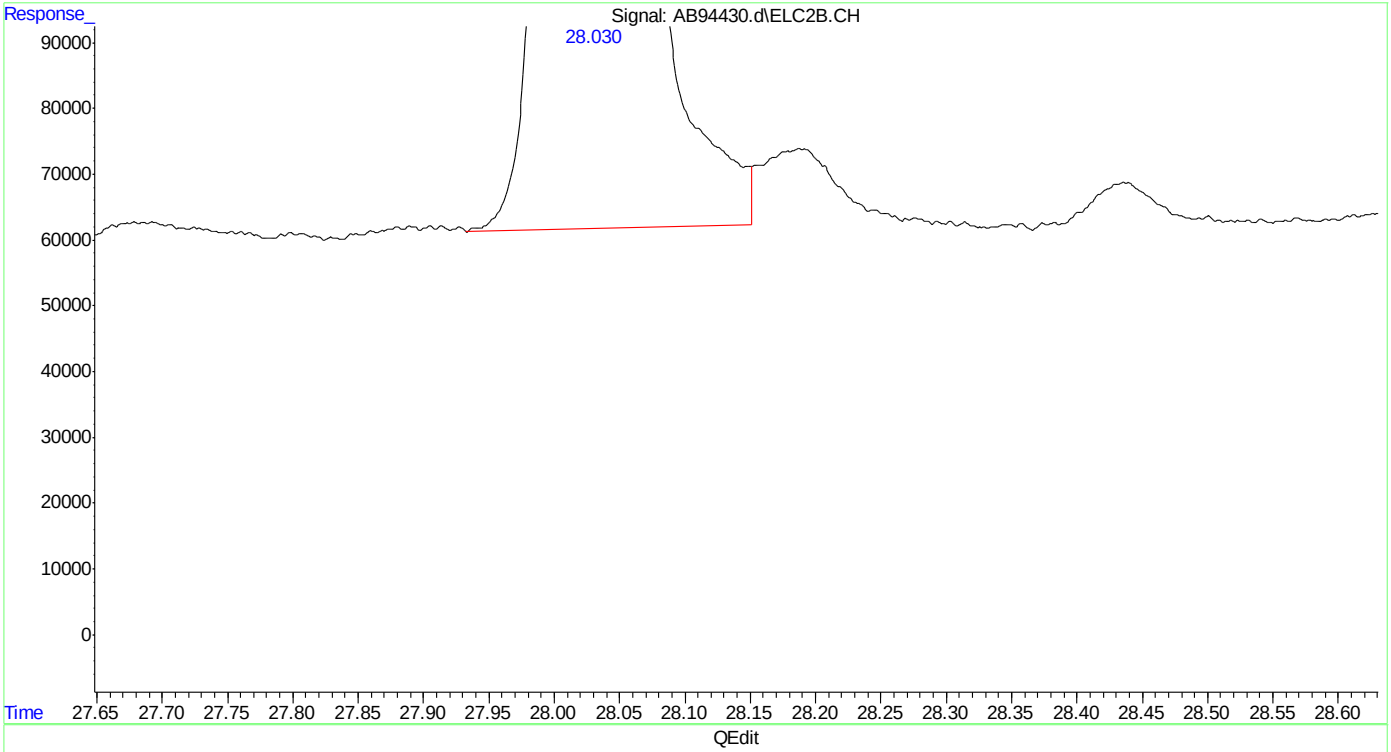
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94430.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 11:53:16
Operator  : tonyf
Sample    : mc46489-2ms,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 5 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:17 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.030min 48.151 ppb m

response 34809023

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:50:59 2016



SGS ACCUTEST MC46487

Manual Integrations APPROVED (compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 12:30:54
Operator : tonyf
Sample : mc46489-2msd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:52:29 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.129 | 21564336 | 48.994 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 97.99% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 19006468 | 46.363 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 92.73% | | |
| 16) s fluorobenzene #2 | 15.126 | 37629510 | 44.678 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 89.36% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 19401114 | 41.555 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 83.11% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 49323487 | 122.845 | ppb | m |
| 2) h rt7/10 | 8.720 | 40979919 | 102.065 | ppb | m |
| 3) h rt10/13 | 13.870 | 85543228 | 213.054 | ppb | m |
| 8) h rt20/25 | 21.870 | 274477447 | 438.110 | ppb | m |
| 14) mtbe #2 | 9.504 | 24431860 | 48.432 | ppb | m |
| 15) benzene #2 | 14.626 | 58142454 | 44.668 | ppb | |
| 17) toluene #2 | 19.085 | 49637503 | 43.417 | ppb | |
| 19) ethylbenzene #2 | 22.183 | 40613351 | 43.866 | ppb | |
| 20) m,p-xylene #2 | 22.327 | 94933567 | 89.499 | ppb | |
| 21) o-xylene #2 | 23.133 | 39171076 | 41.933 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.086 | 30117854 | 31.470 | ppb | |
| 24) naphthalene #2 | 28.030 | 34750883 | 48.071 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 119266565 | 124.490 | ppb | m |

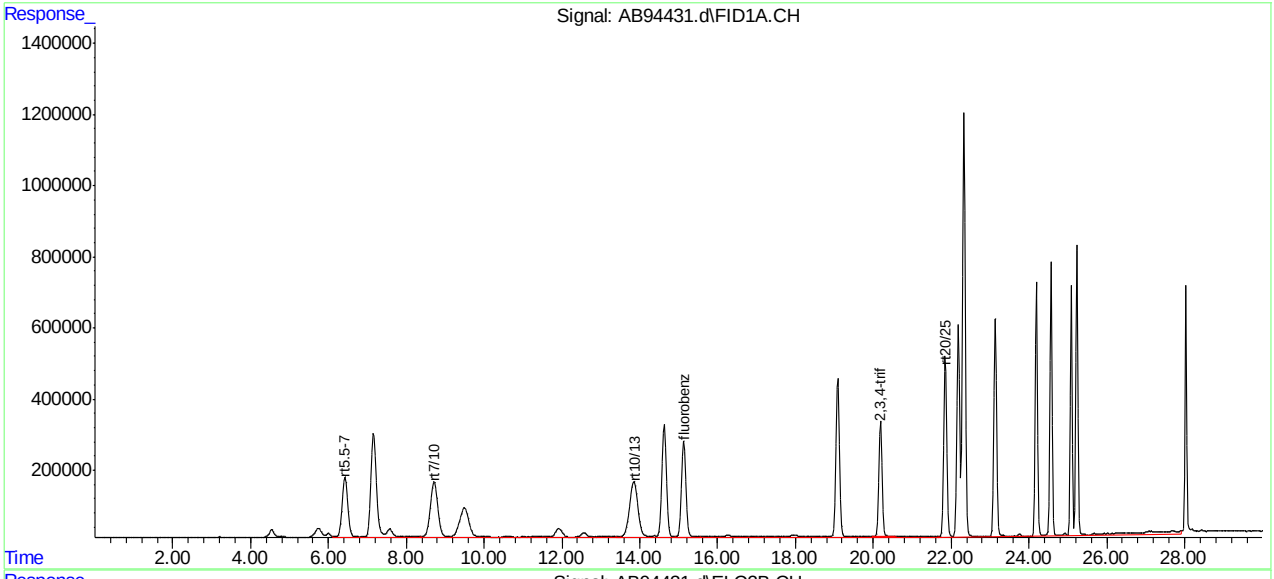
(f)=RT Delta > 1/2 Window (m)=manual int.

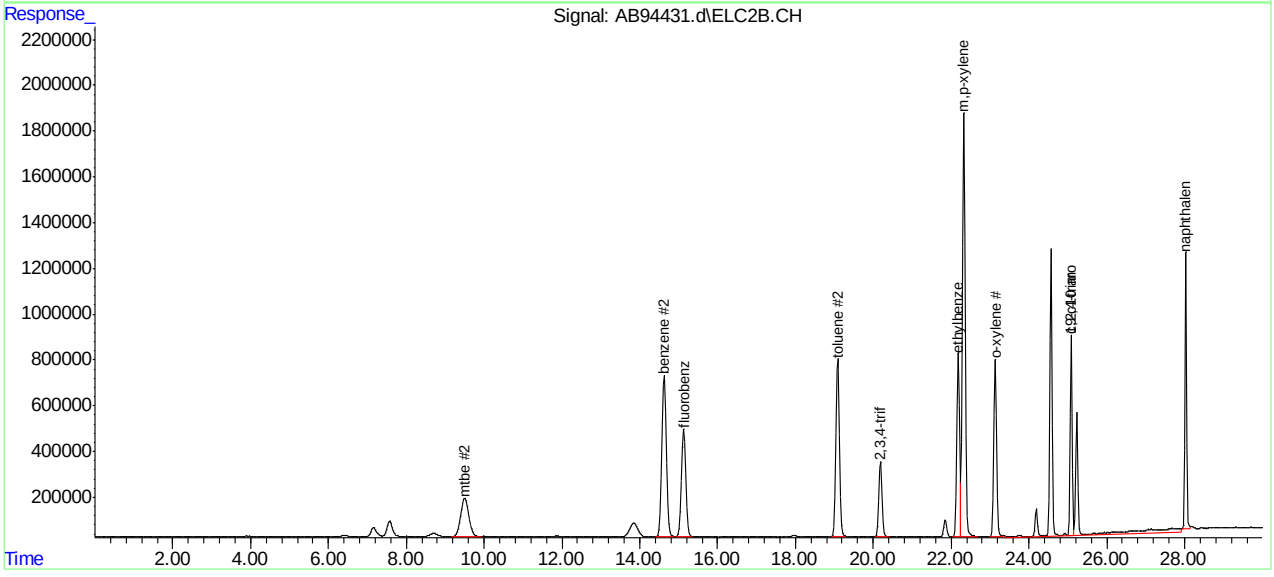
Quantitation Report (QT Reviewed)

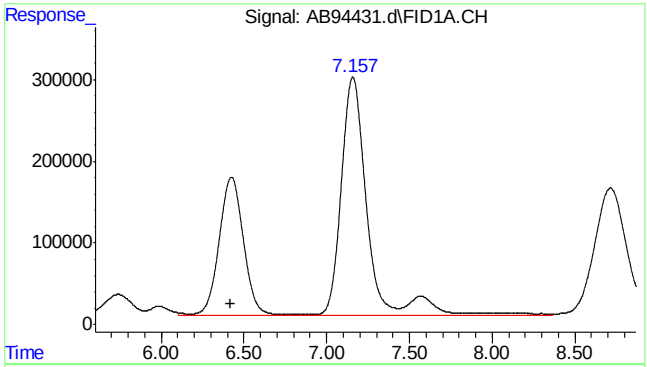
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 12:30:54
Operator : tonyf
Sample : mc46489-2msd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:52:29 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

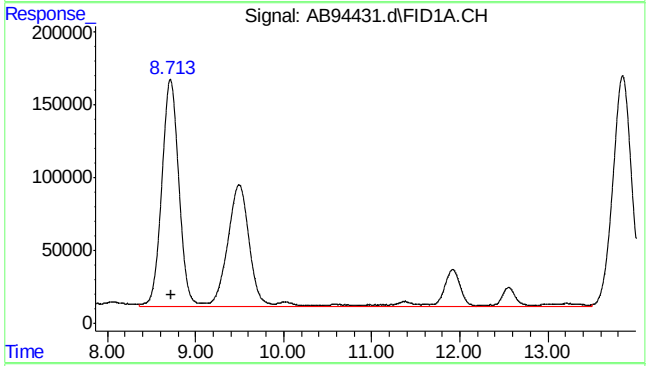




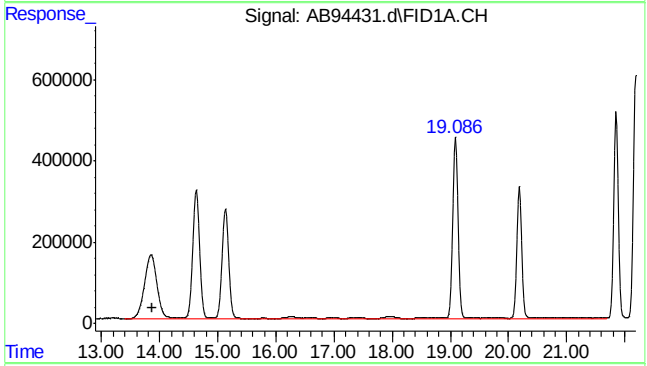

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 49323487
Conc: 122.85 ppb m



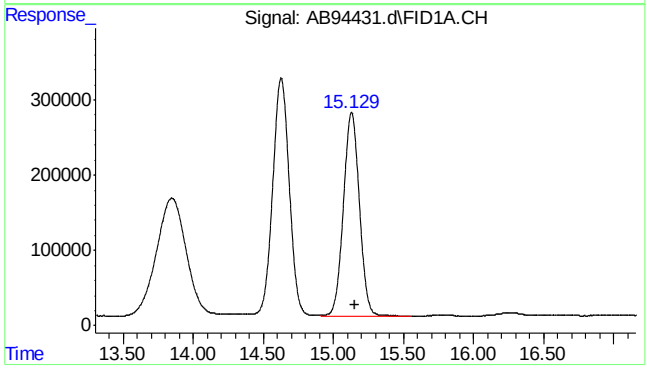

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 40979919
Conc: 102.06 ppb m



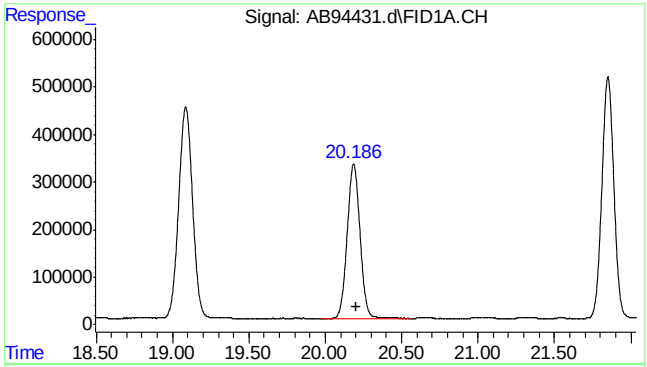

#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 85543228
Conc: 213.05 ppb m



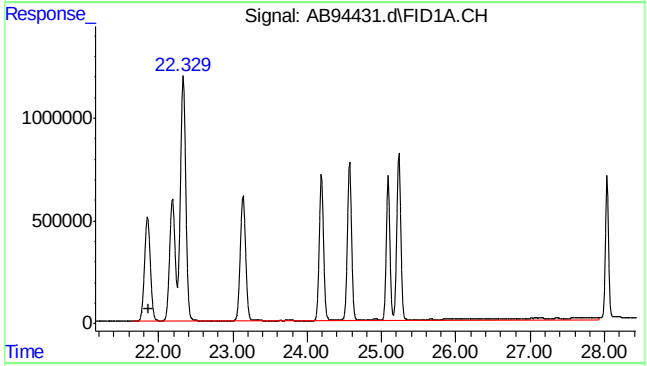

#4 fluorobenzene

R.T.: 15.129 min
Delta R.T.: -0.022 min
Response: 21564336
Conc: 48.99 ppb



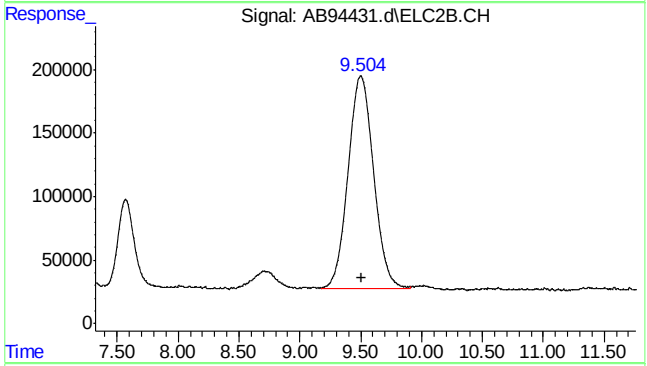

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.019 min
Response: 19006468
Conc: 46.36 ppb



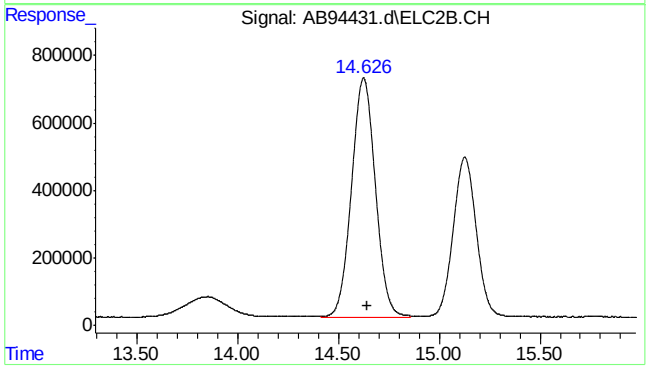

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 274477447
Conc: 438.11 ppb m



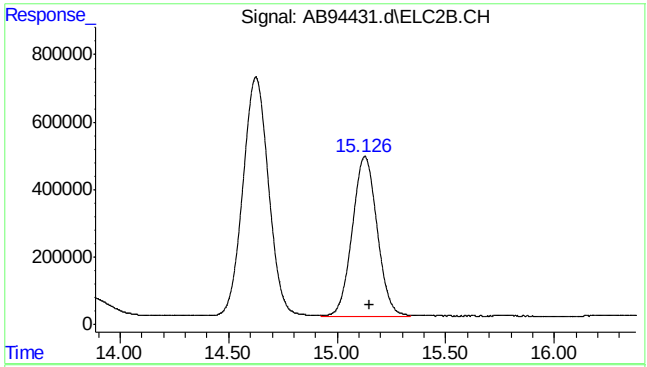

#14 mtbe #2

R.T.: 9.504 min
Delta R.T.: -0.007 min
Response: 24431860
Conc: 48.43 ppb m



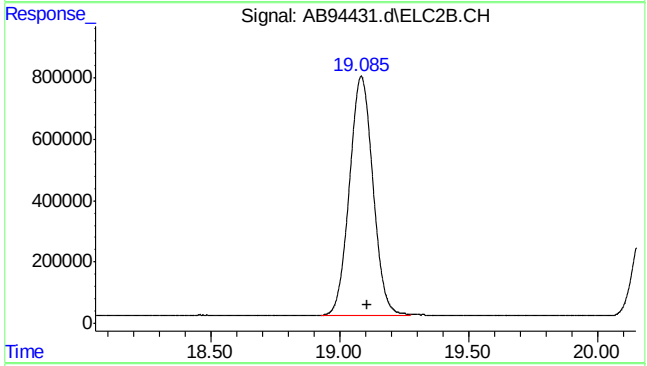

#15 benzene #2

R.T.: 14.626 min
Delta R.T.: -0.020 min
Response: 58142454
Conc: 44.67 ppb



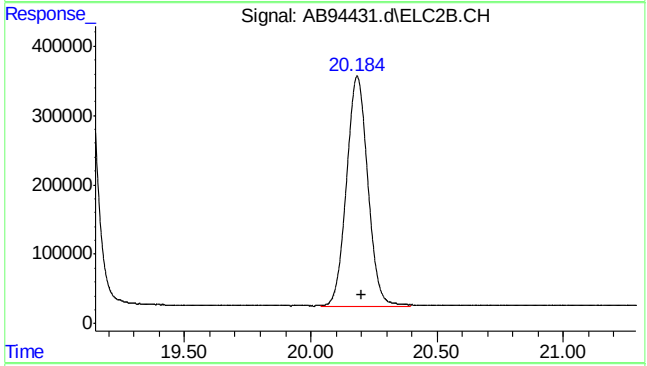

#16 fluorobenzene #2

R.T.: 15.126 min
Delta R.T.: -0.022 min
Response: 37629510
Conc: 44.68 ppb



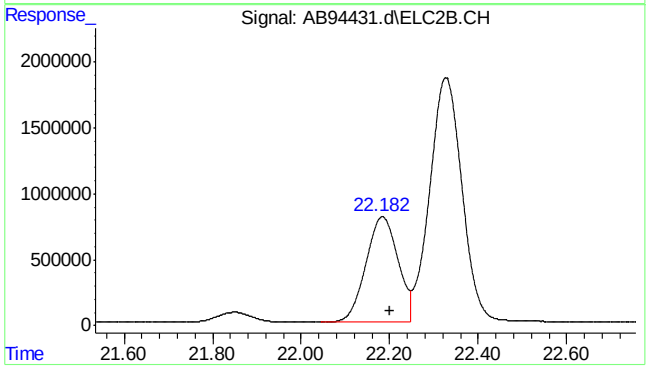

#17 toluene #2

R.T.: 19.085 min
Delta R.T.: -0.021 min
Response: 49637503
Conc: 43.42 ppb




#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 19401114
Conc: 41.56 ppb




#19 ethylbenzene #2

R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 40613351
Conc: 43.87 ppb





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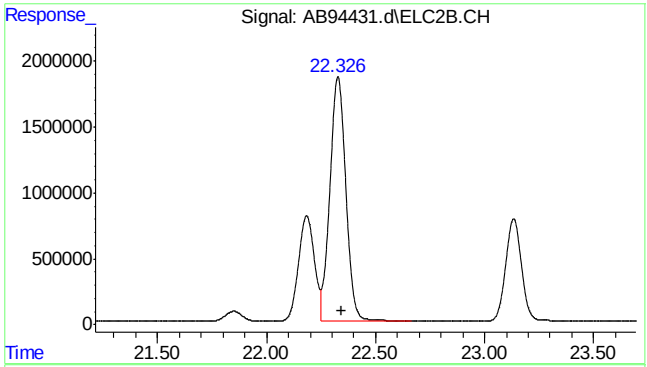
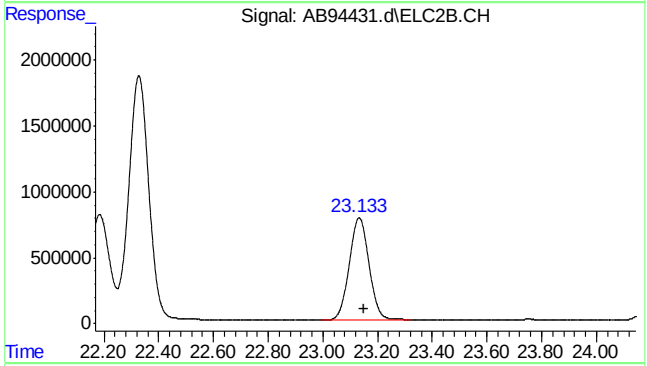


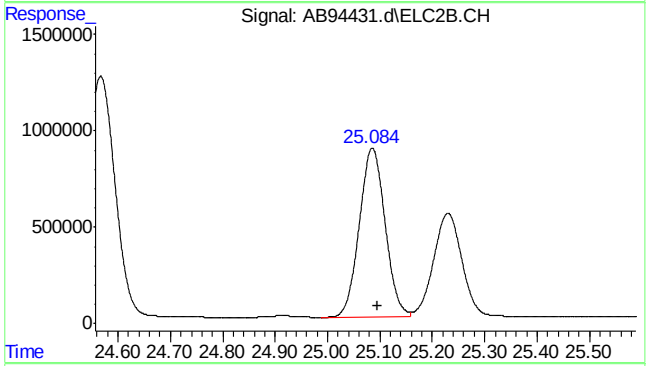

#20 m,p-xylene #2

R.T.: 22.327 min
Delta R.T.: -0.017 min
Response: 94933567
Conc: 89.50 ppb



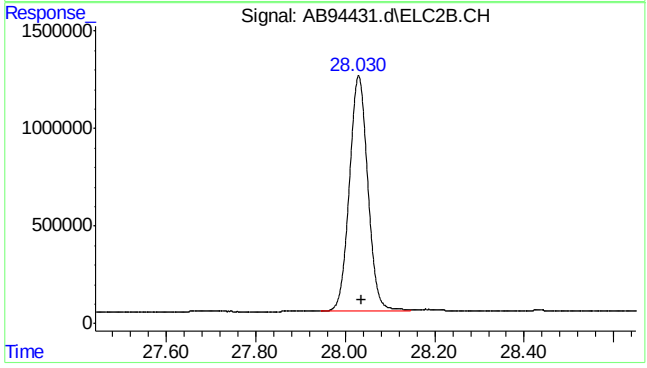

#21 o-xylene #2

R.T.: 23.133 min
Delta R.T.: -0.017 min
Response: 39171076
Conc: 41.93 ppb




#23 1,2,4-trimethylbenzene #2

R.T.: 25.086 min
Delta R.T.: -0.010 min
Response: 30117854
Conc: 31.47 ppb




#24 naphthalene #2

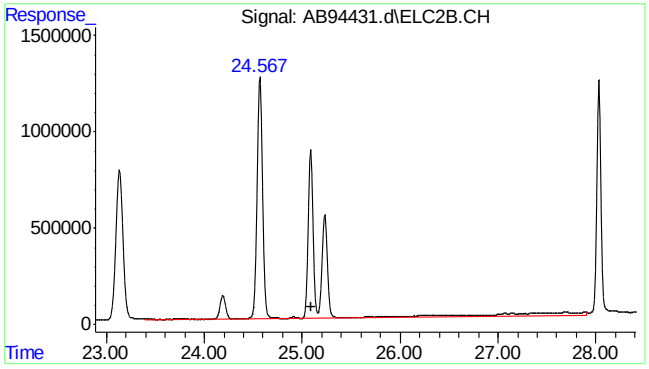
R.T.: 28.030 min
Delta R.T.: -0.009 min
Response: 34750883
Conc: 48.07 ppb m

7.4.2

7



SGS ACCUTEST MC46487




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

      R.T.:   25.096 min
Delta R.T.:    0.000 min
  Response: 119266565
      Conc: 124.49 ppb m
```

7.4.2

7



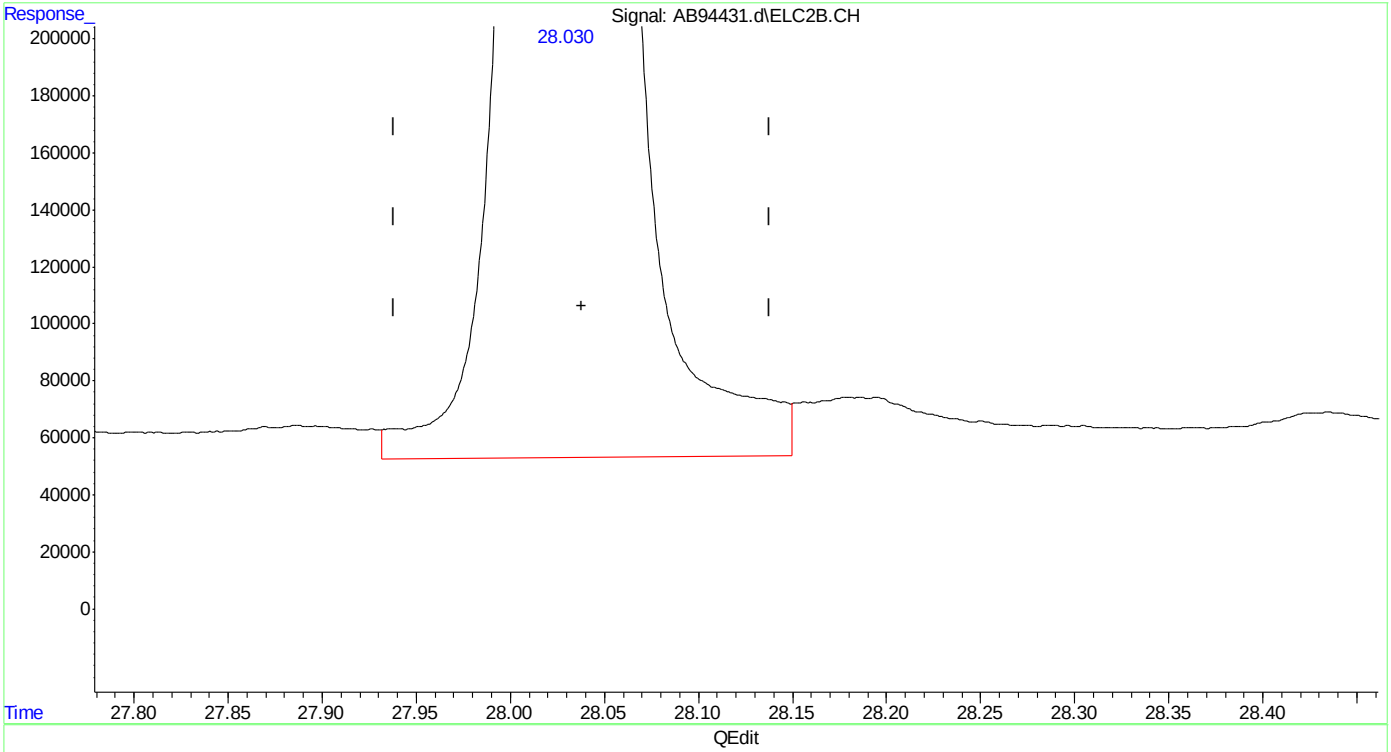
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 12:30:54
Operator  : tonyf
Sample    : mc46489-2msd,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 13:22:29 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.030min 49.849 ppb

response 36036623

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 13:23:53 2016



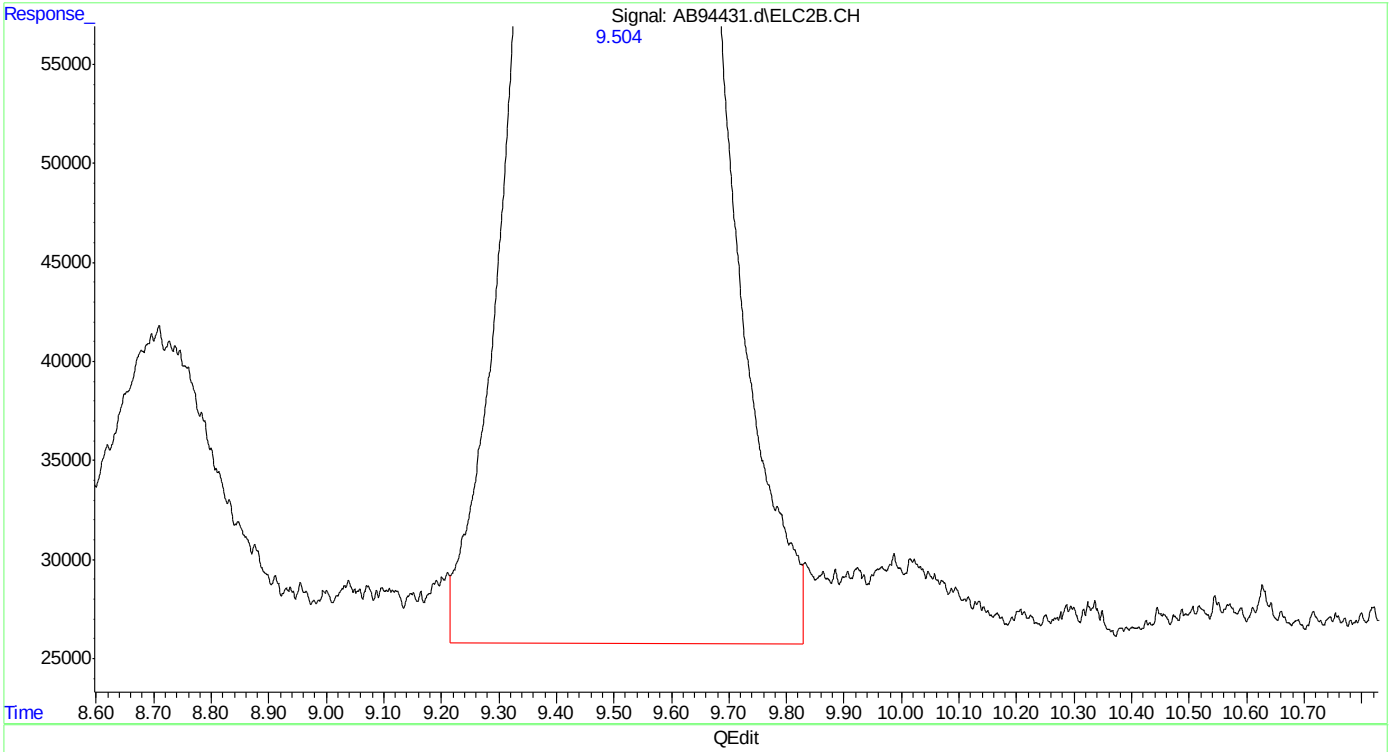
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 12:30:54
Operator  : tonyf
Sample    : mc46489-2msd,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.504min 49.594 ppb

response 25017863

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:52:00 2016



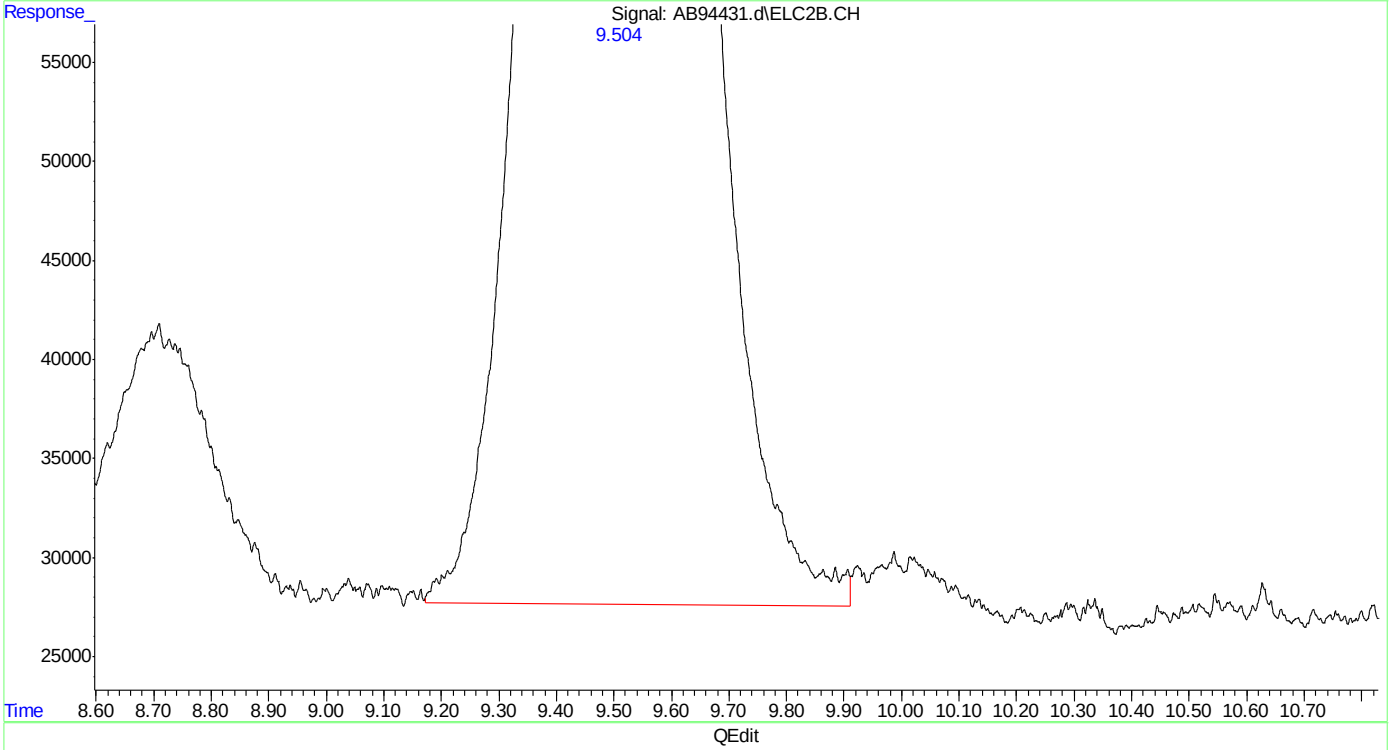
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 12:30:54
Operator  : tonyf
Sample    : mc46489-2msd,w,vmavph,00
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 6 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2

9.504min 48.432 ppb m

response 24431860

(+) = Expected Retention Time

ab160622vph.M Thu Jun 23 13:52:06 2016



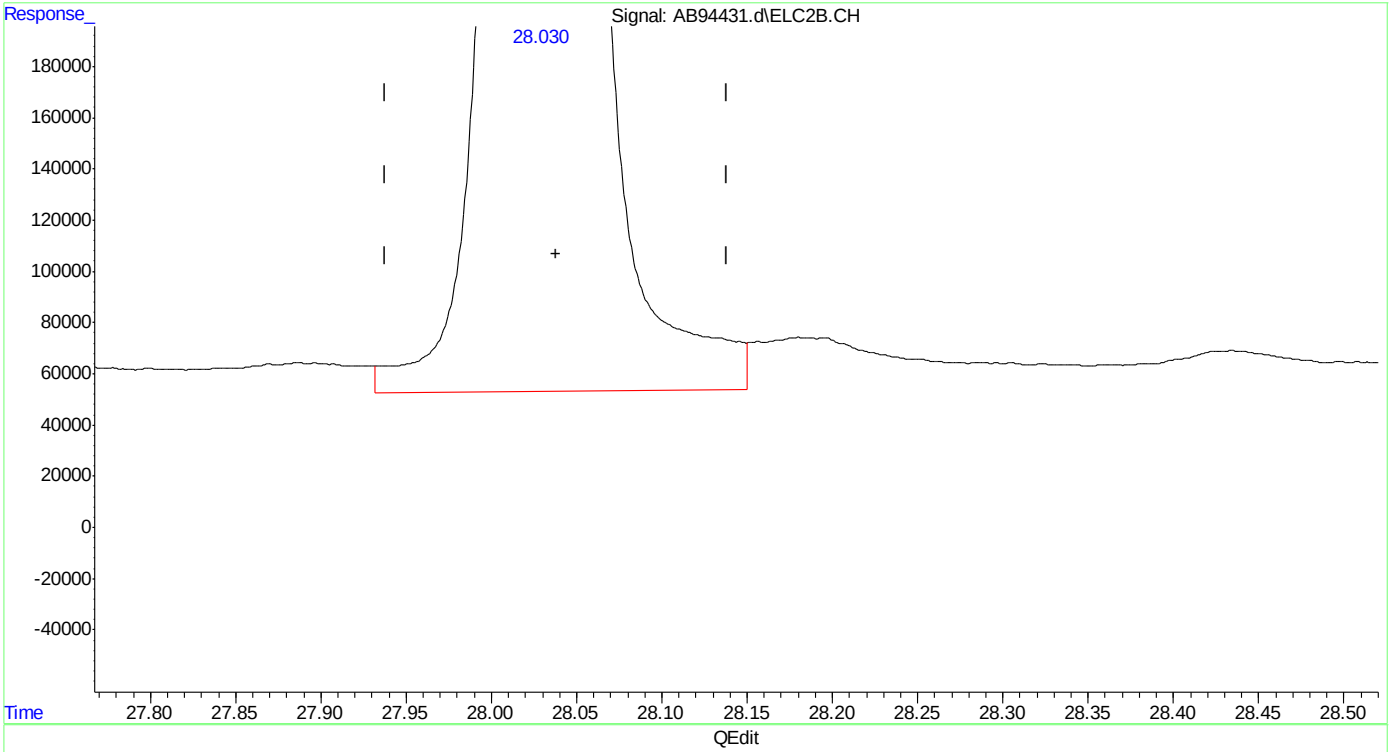
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 12:30:54
Operator : tonyf
Sample : mc46489-2msd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.030min 49.849 ppb
response 36036623

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:52:15 2016







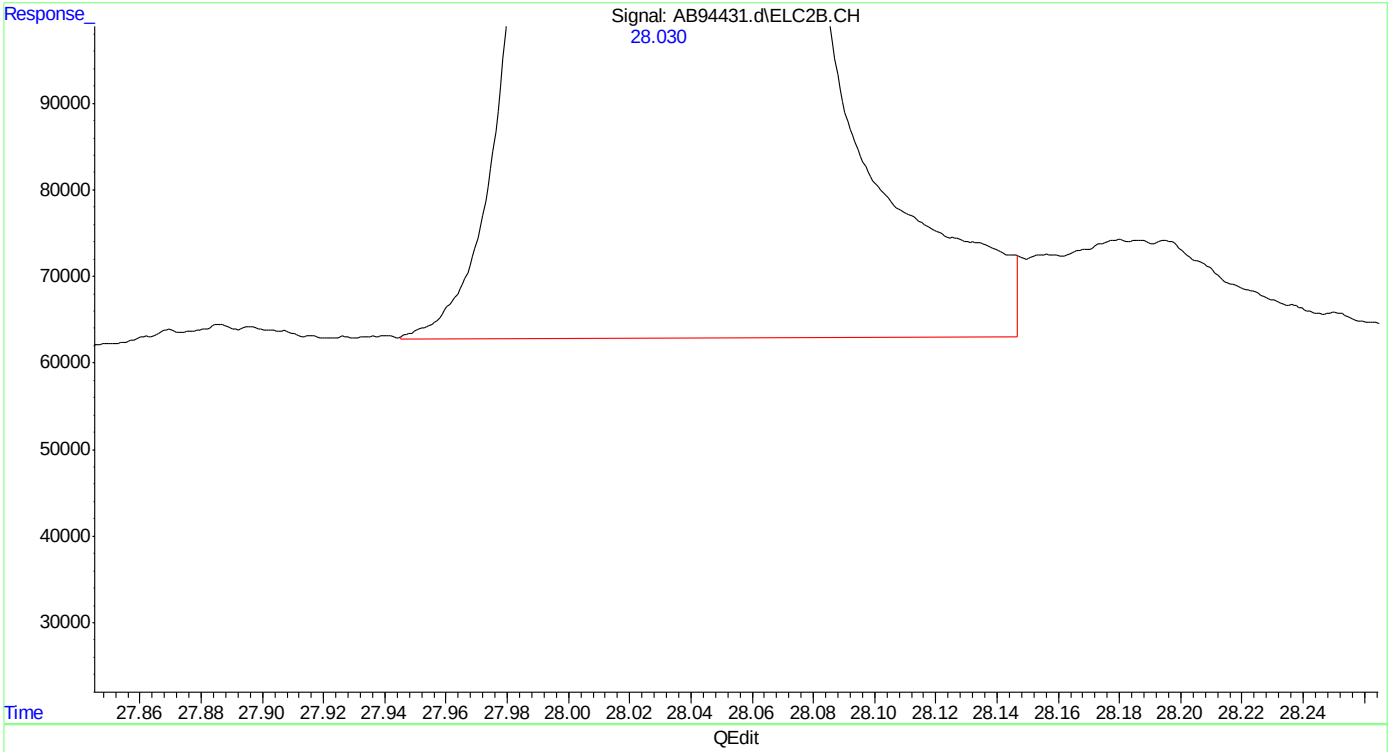
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94431.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 12:30:54
Operator : tonyf
Sample : mc46489-2msd,w,vmavph,00
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 6 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 13:49:38 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.030min 48.071 ppb m
response 34750883

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 13:52:24 2016

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

Quantitation Report (QT Reviewed)

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

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

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

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

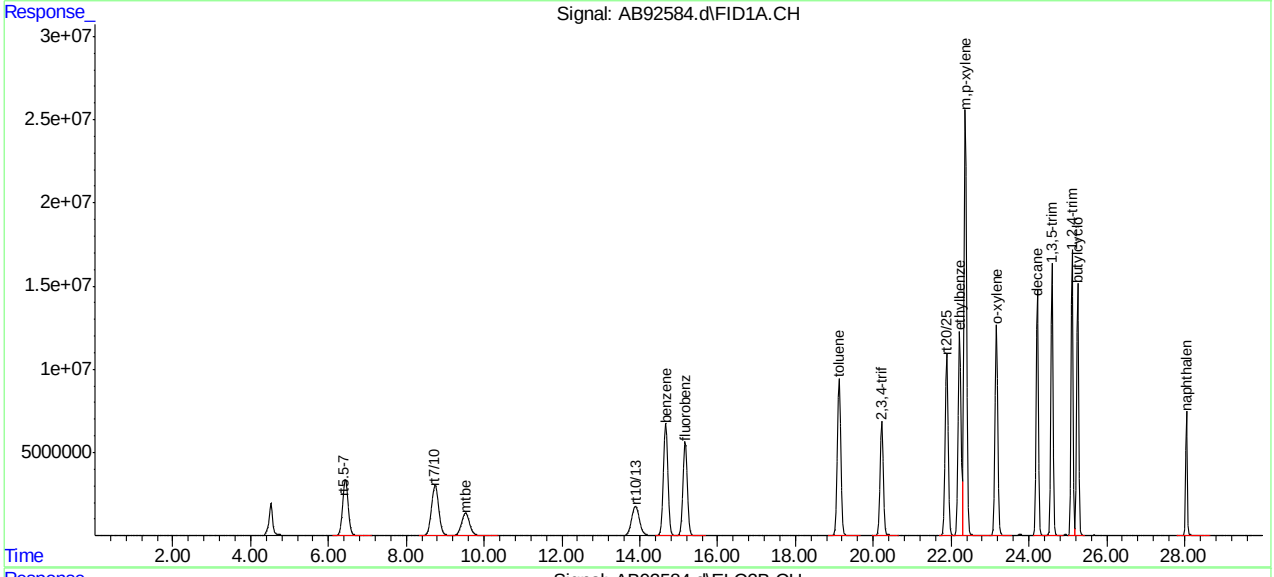
(f)=RT Delta > 1/2 Window (m)=manual int.

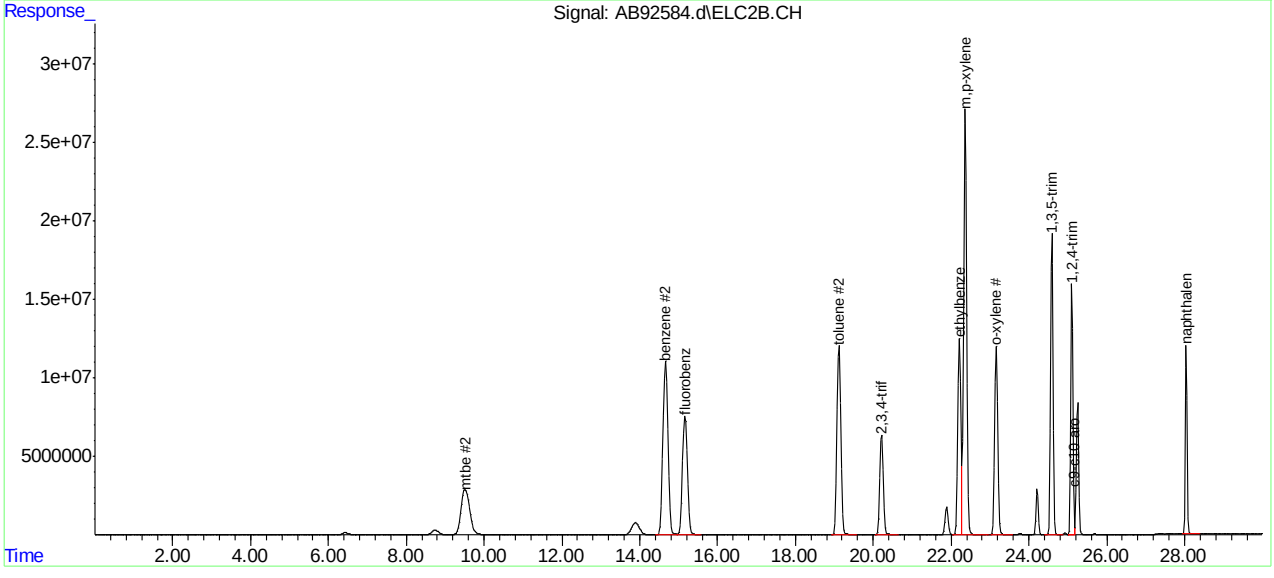
Quantitation Report (QT Reviewed)

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

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

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







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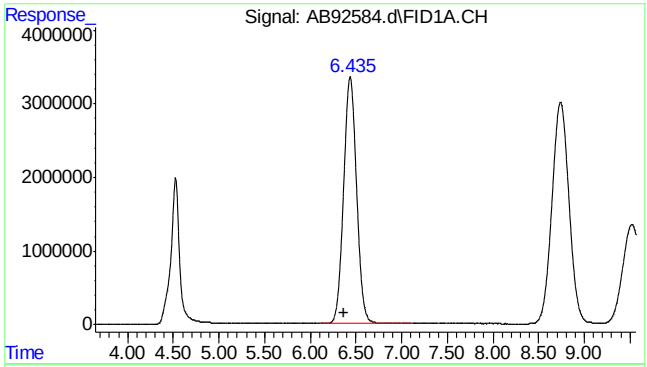
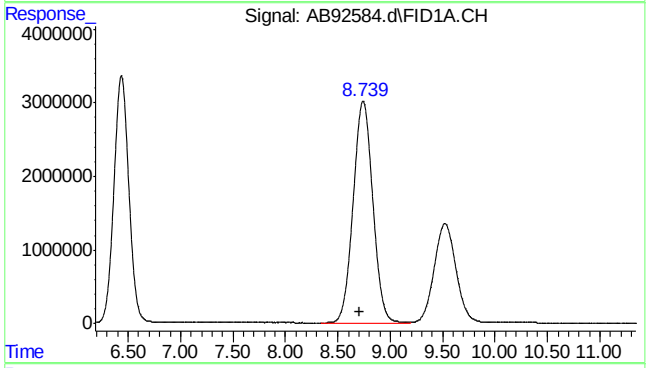


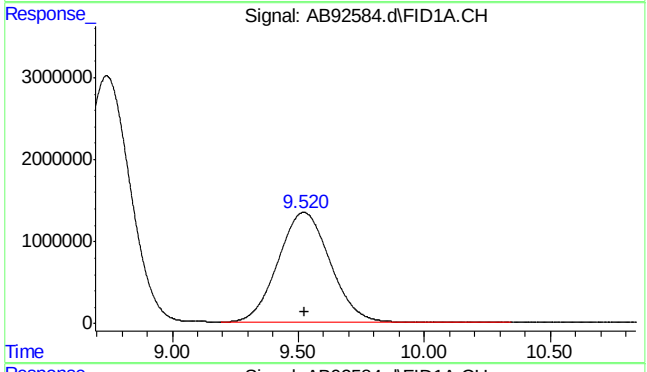

#1 rt5.5-7

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



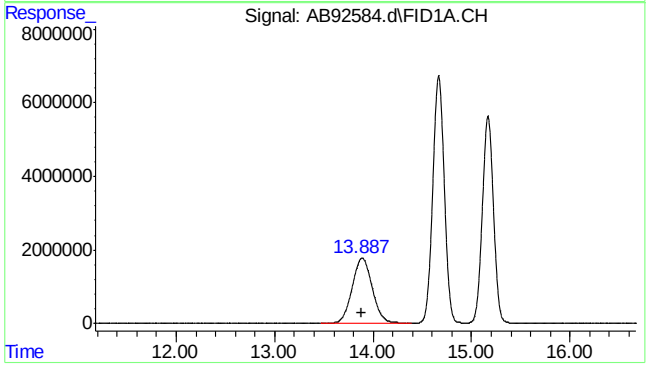

#2 rt7/10

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



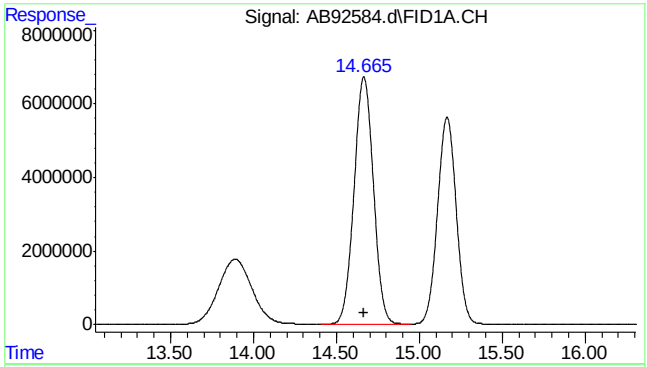

#3 mtbe

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



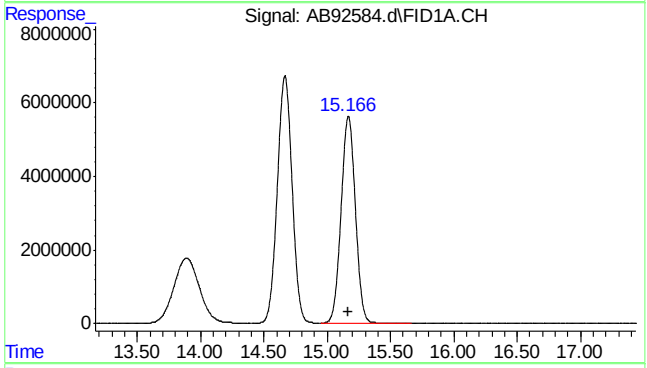

#4 rt10/13

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



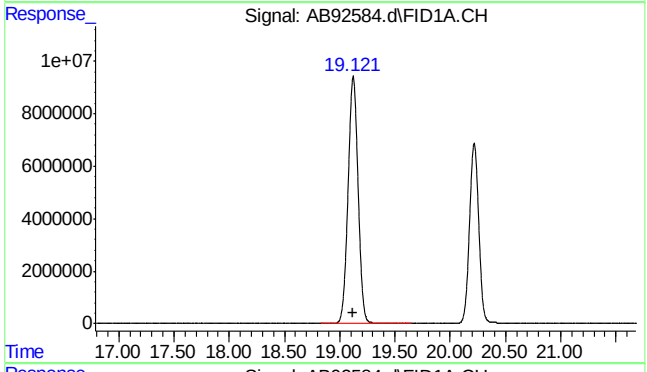

#5 benzene

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



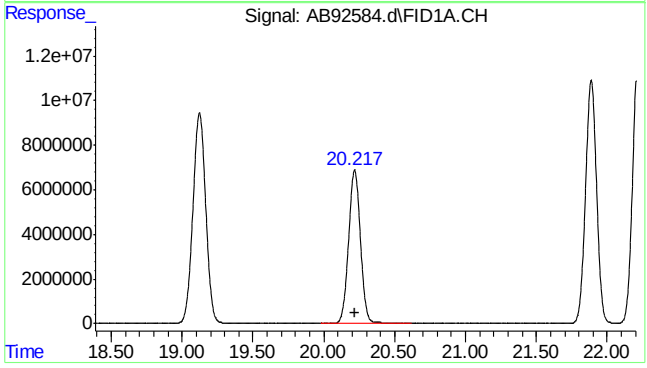

#6 fluorobenzene

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



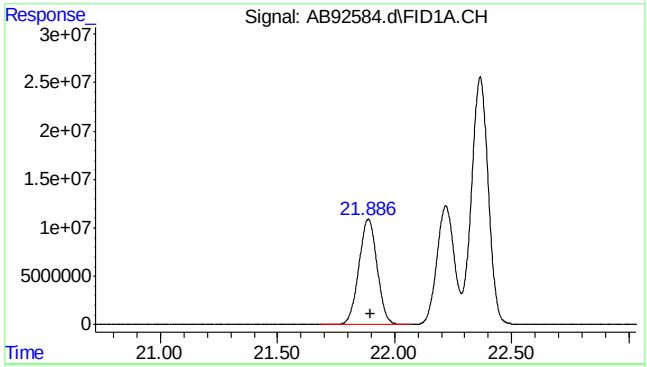

#8 toluene

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



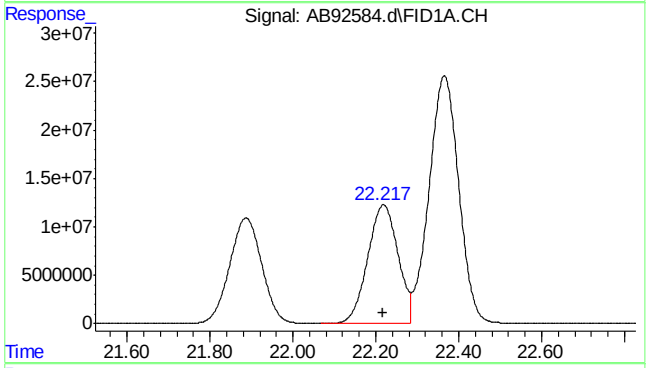

#9 2,3,4-trifluorotoluene

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



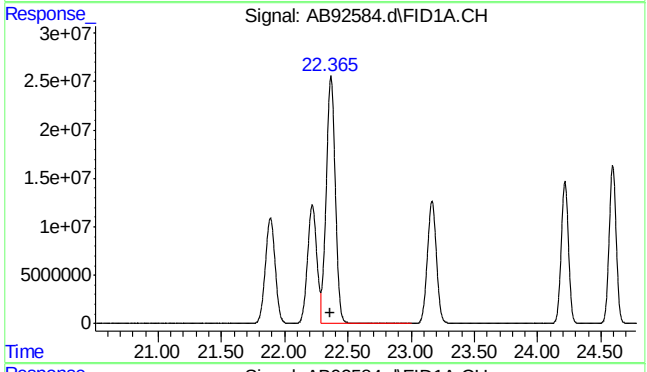

#11 rt20/25

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



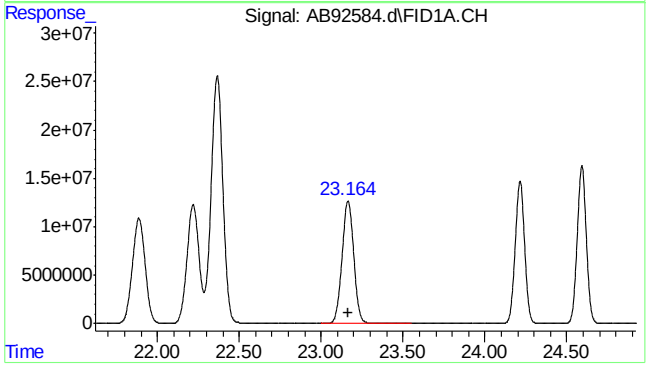

#13 ethylbenzene

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




#14 m,p-xylene

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




#15 o-xylene

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





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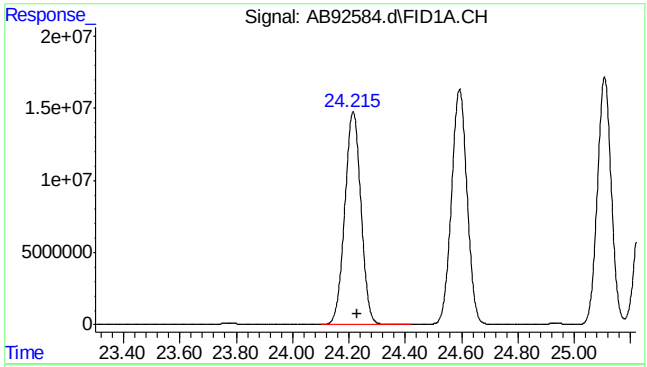
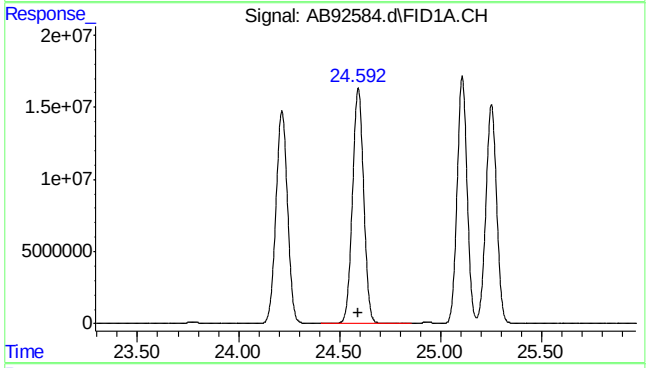


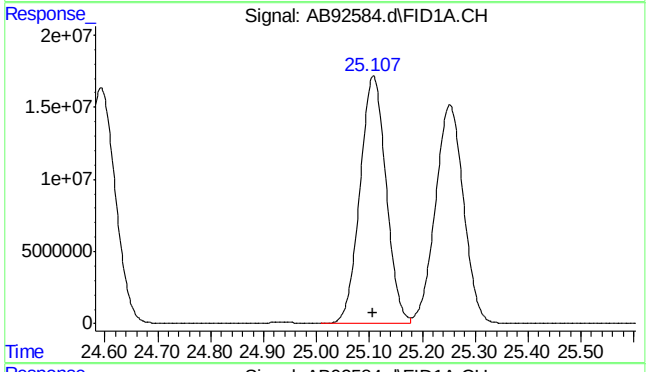

#16 decane

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



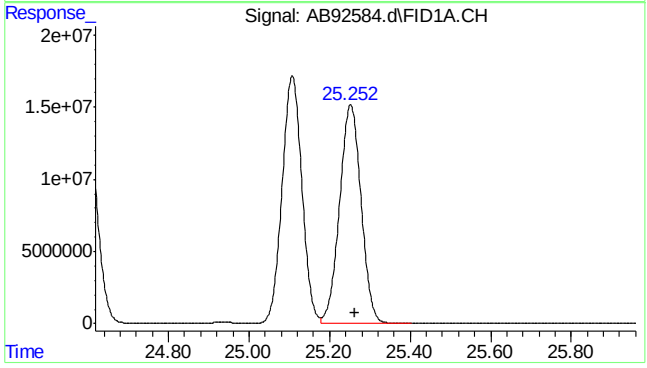

#17 1,3,5-trimethylbenzene

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




#18 1,2,4-trimethylbenzene

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




#19 butylcyclohexane

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





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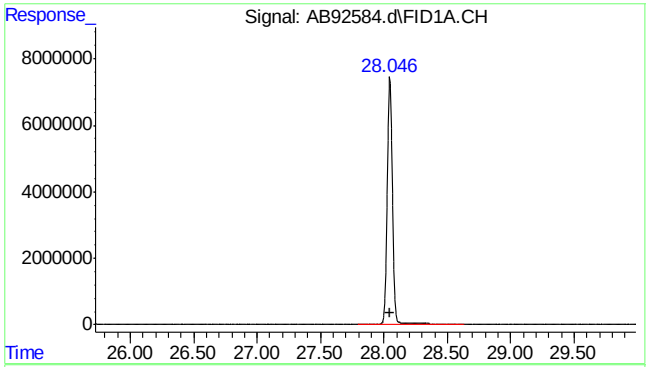
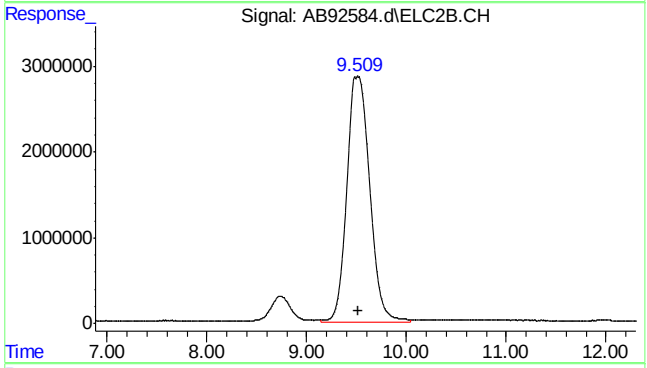


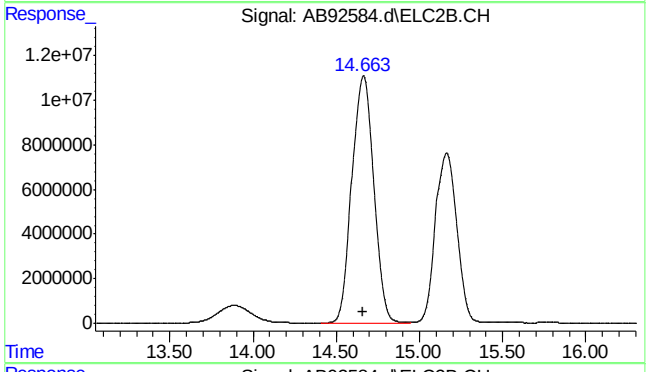

#20 naphthalene

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



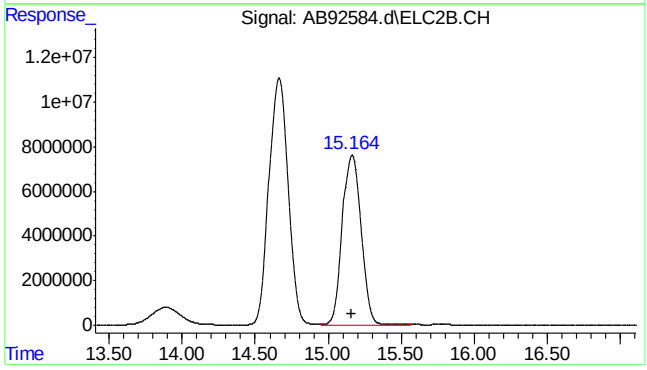

#23 mtbe #2

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




#24 benzene #2

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

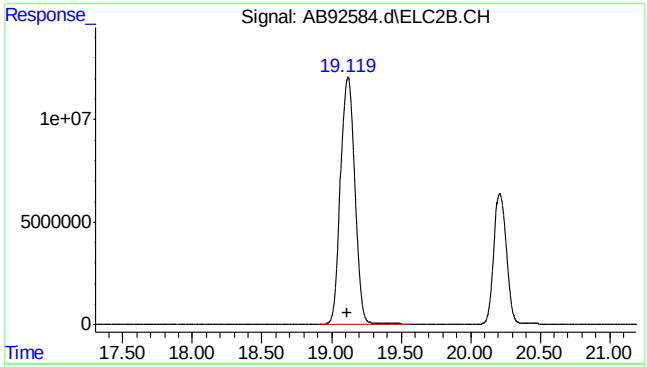



#25 fluorobenzene #2

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

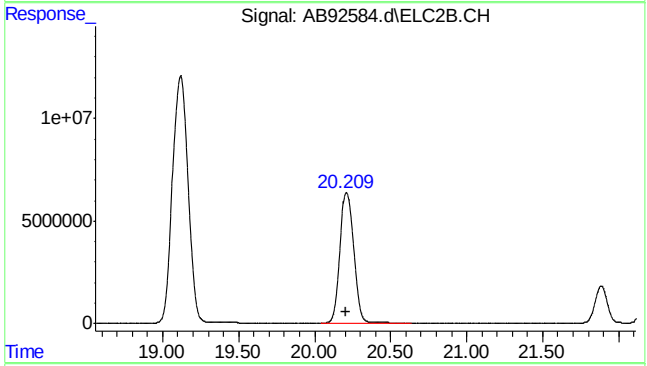


SGS ACCUTEST MC46487



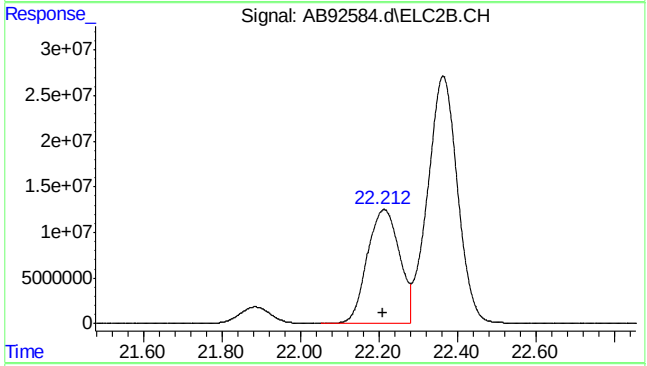

#26 toluene #2

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



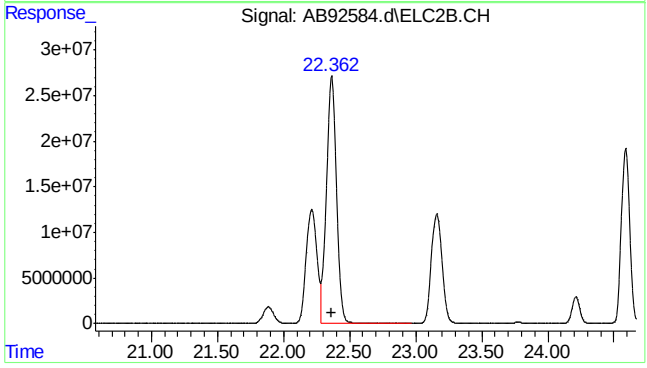

#27 2,3,4-trifluorotoluene #2

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




#28 ethylbenzene #2

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




#29 m,p-xylene #2

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



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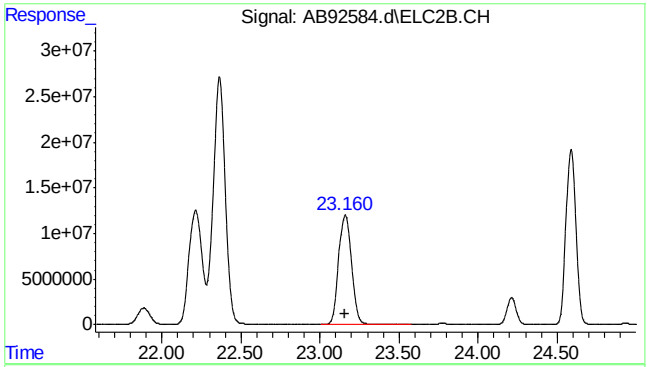
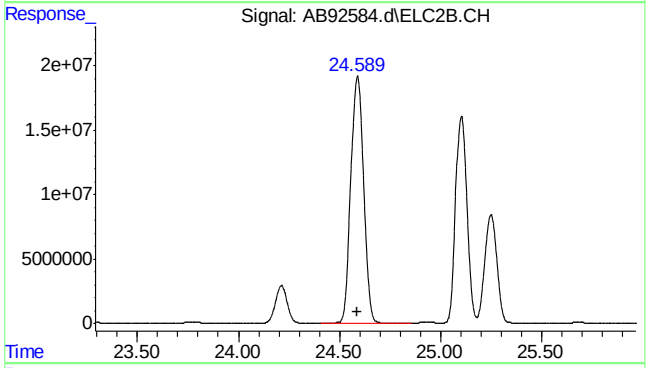


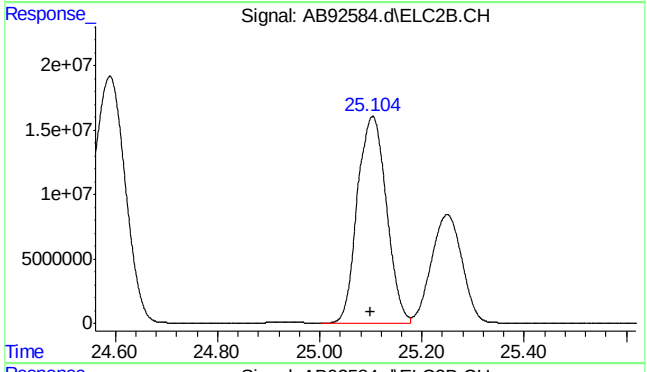

#30 o-xylene #2

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



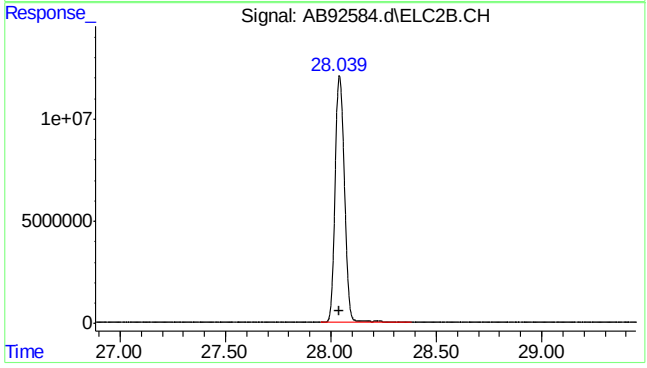

#31 1,3,5-trimethylbenzene #2

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




#32 1,2,4-trimethylbenzene #2

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




#33 naphthalene #2

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



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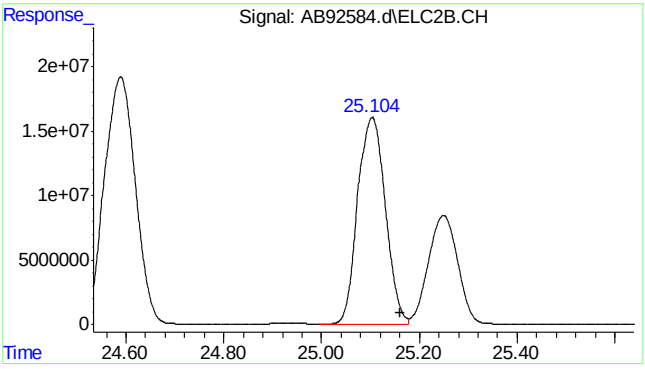



#34 c9-c10 arom as 1,2,4-tmb

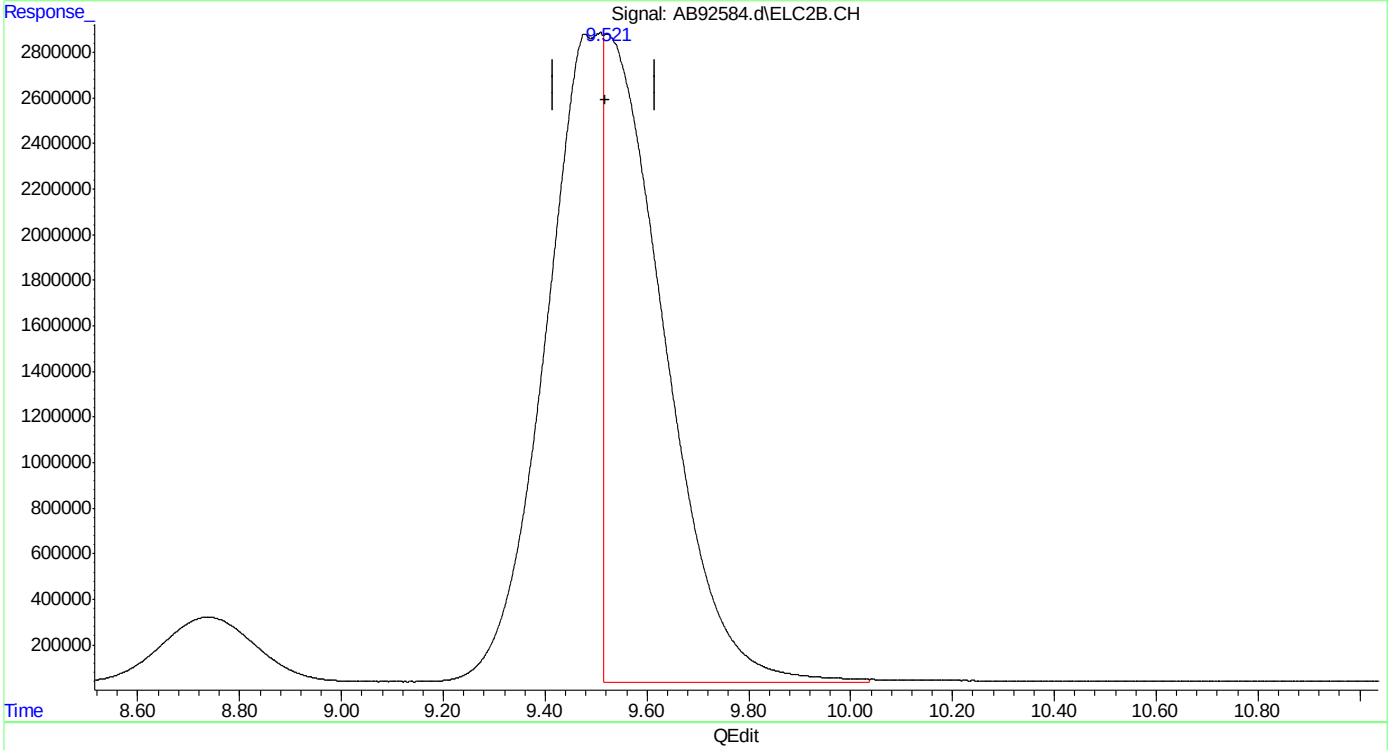
R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 633177055
Conc: 634.03 ppb m

Quantitation Report (Qedit)

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

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

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




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

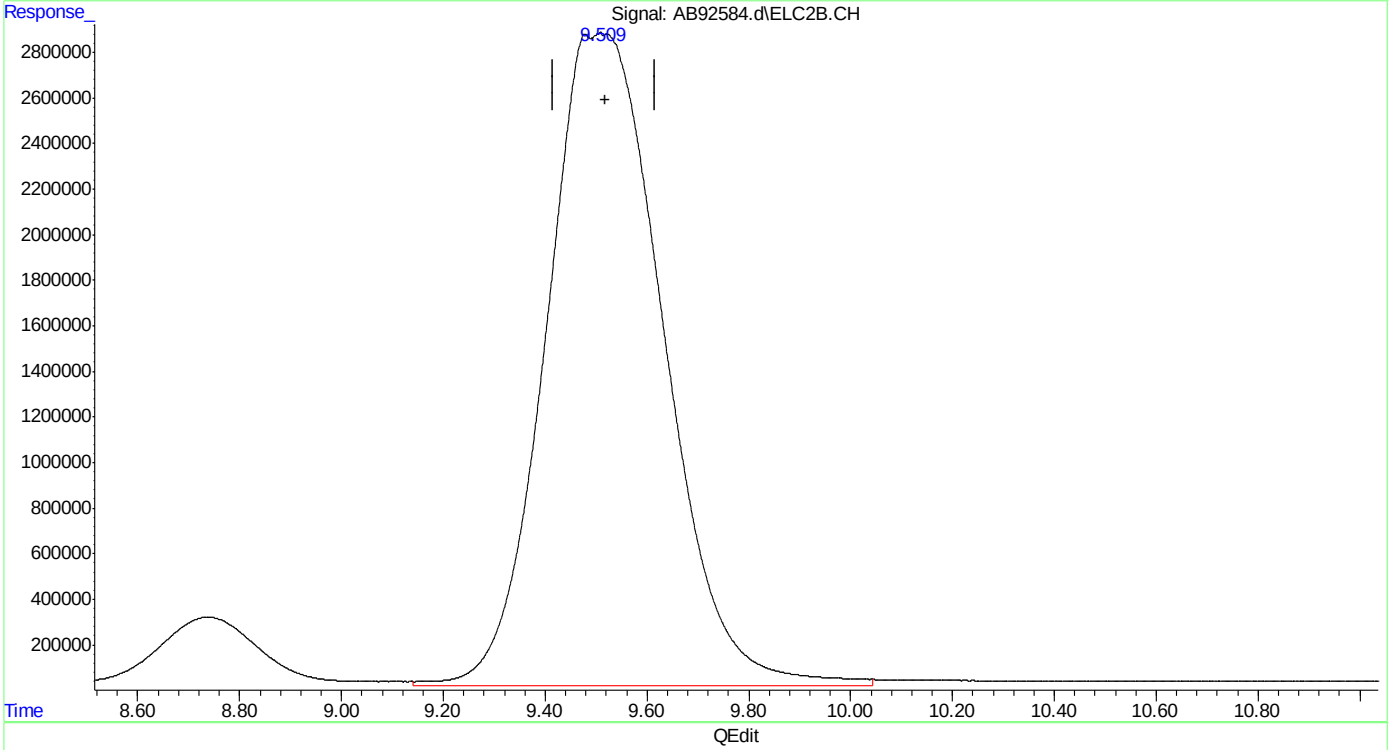
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

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

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




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

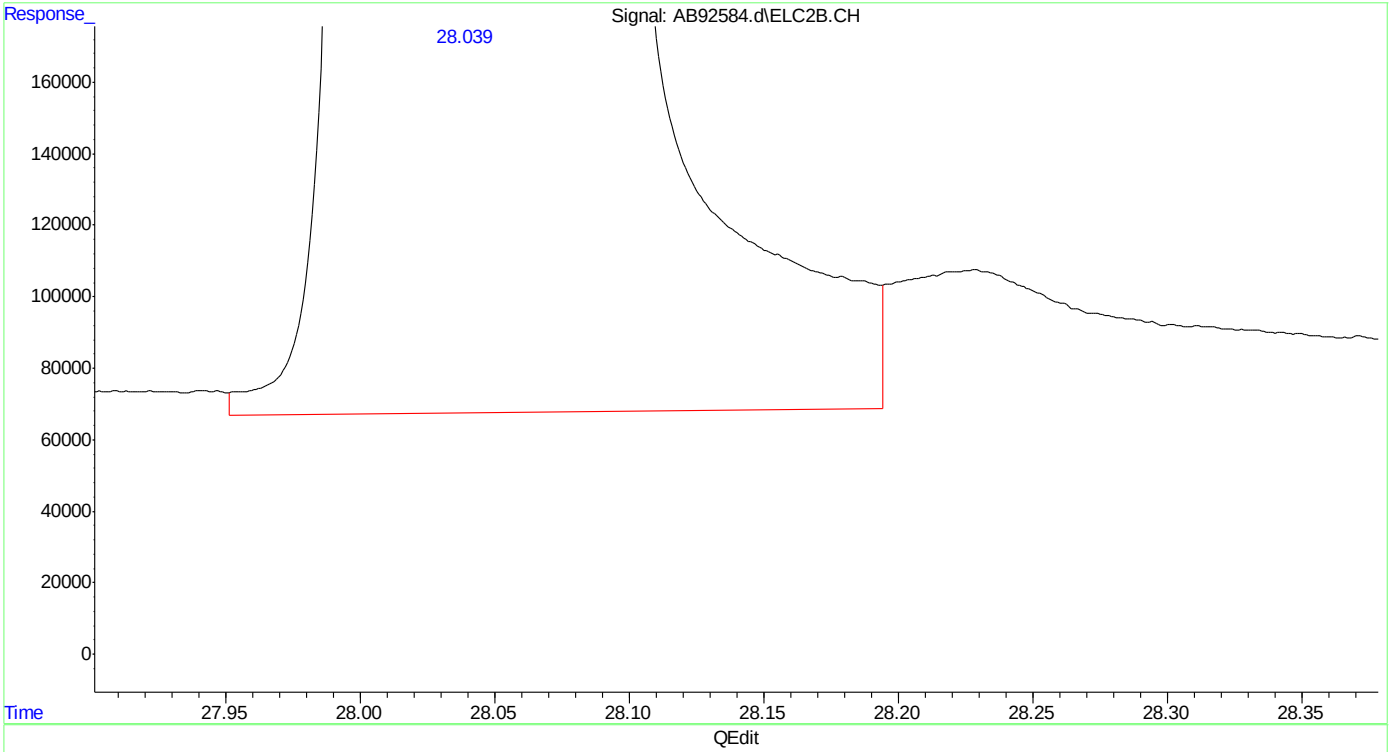
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

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

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




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

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





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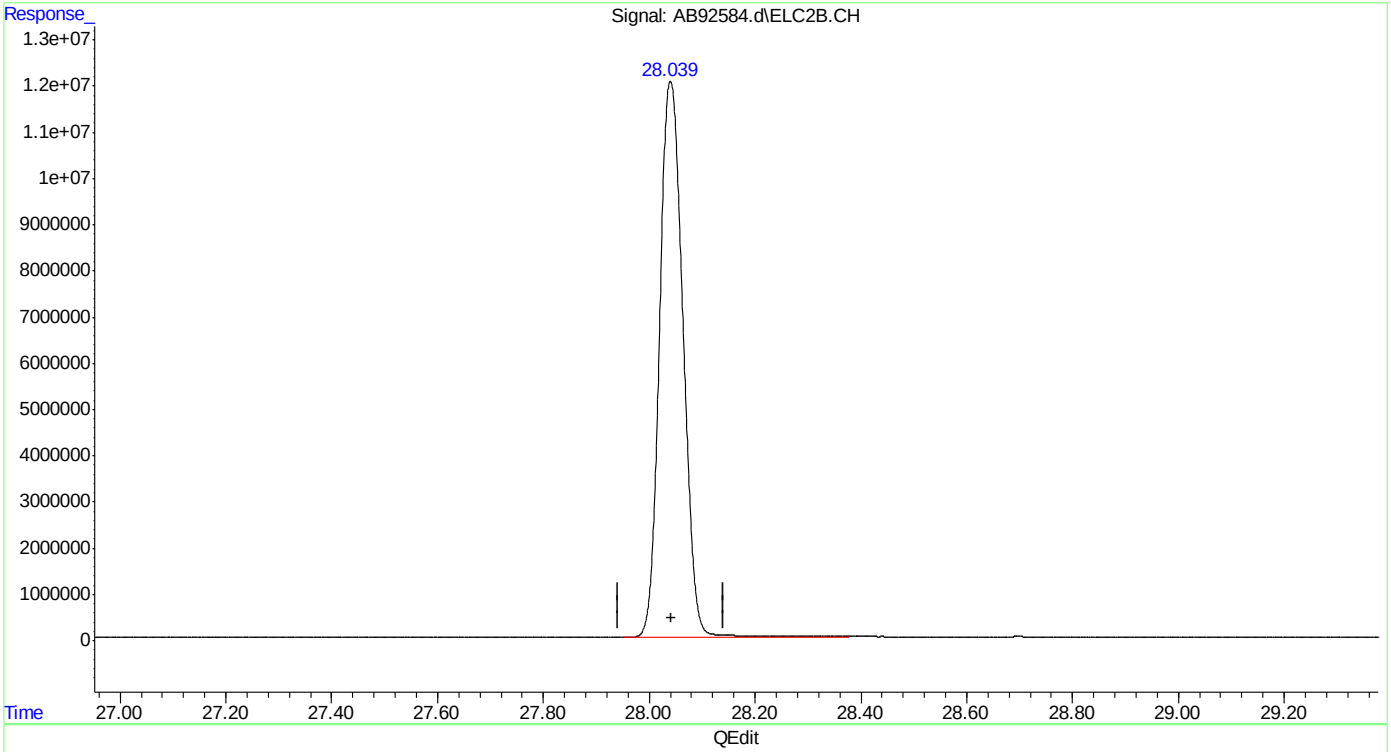
Quantitation Report (Qedit)

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

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

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




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

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

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

Quantitation Report (QT Reviewed)

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

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

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

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

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



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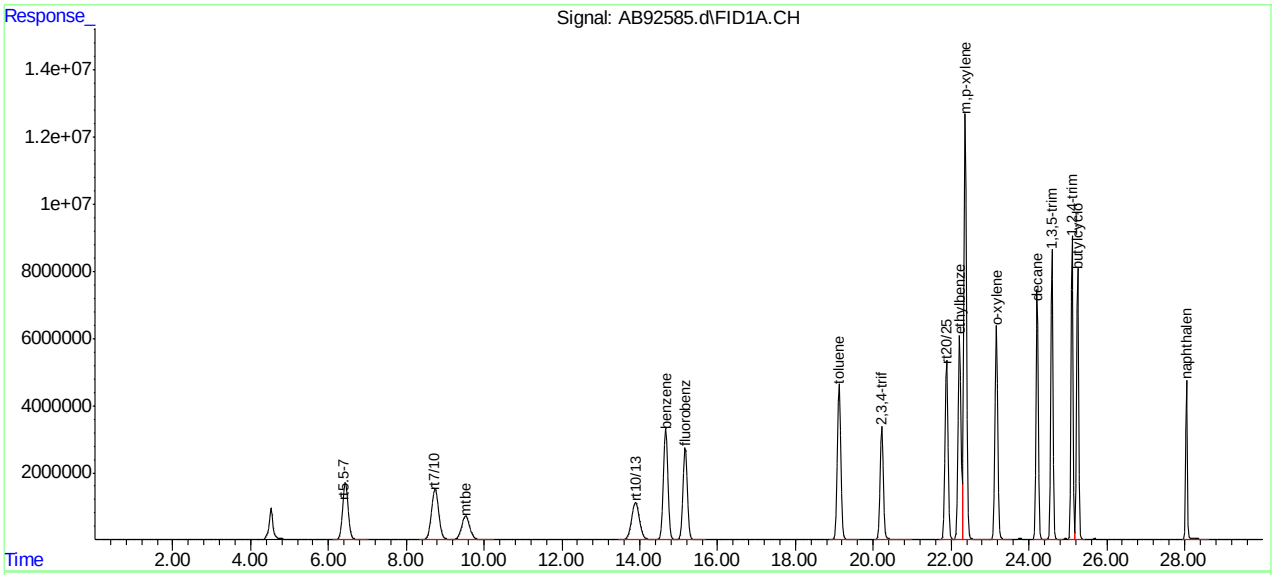
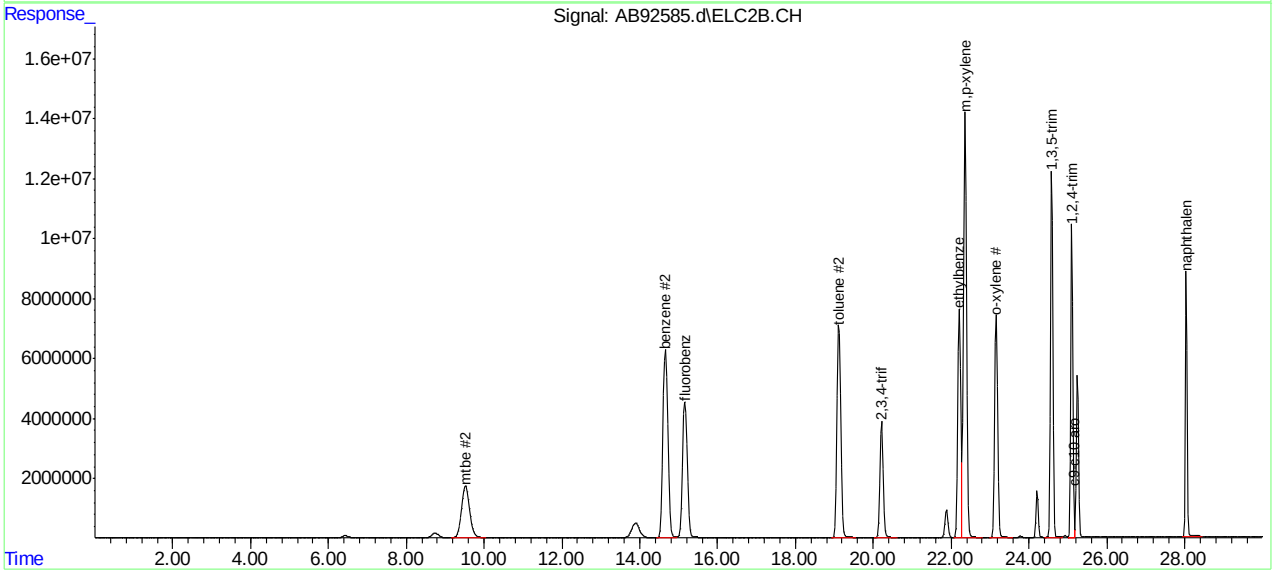
Quantitation Report (QT Reviewed)

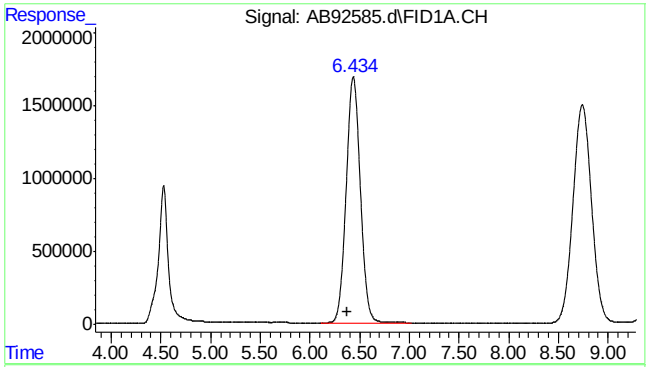
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92585.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:04:35
Operator : haleyn
Sample : ic5058-500
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 2 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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

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

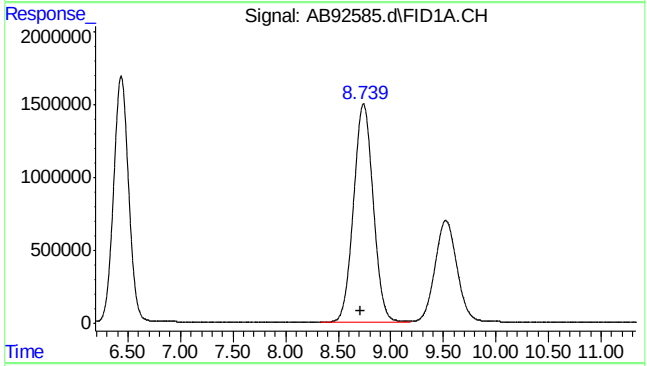




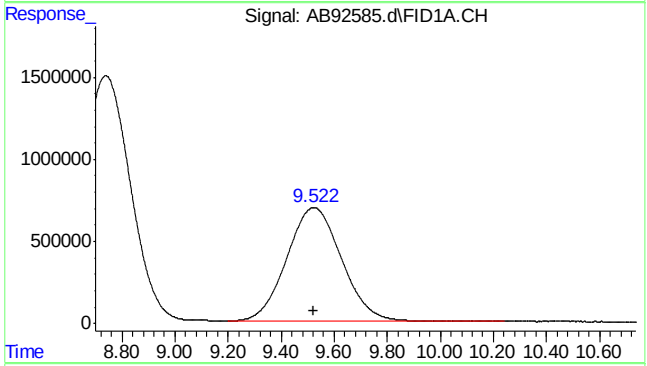

#1 rt5.5-7

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



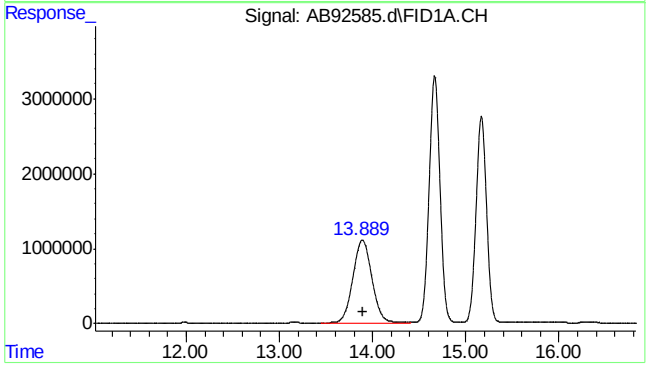

#2 rt7/10

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




#3 mtbe

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




#4 rt10/13

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





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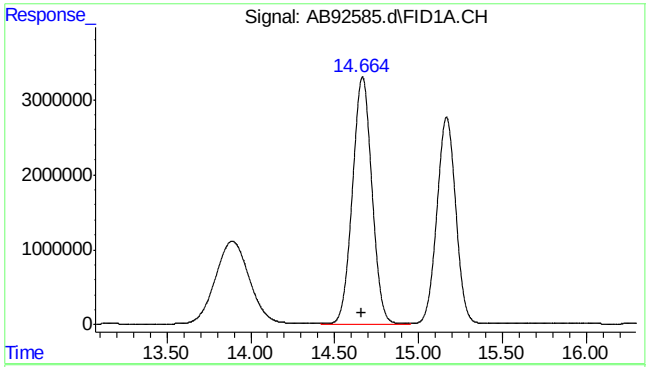
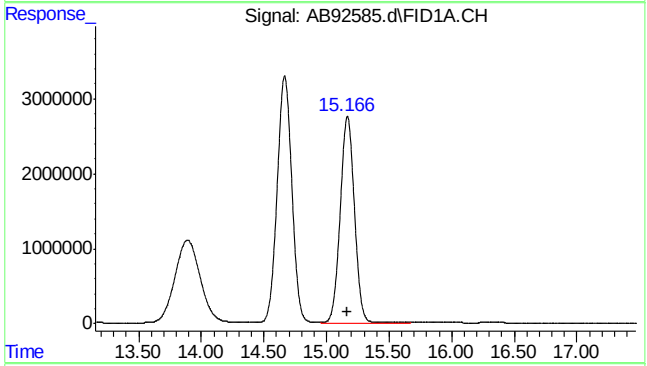


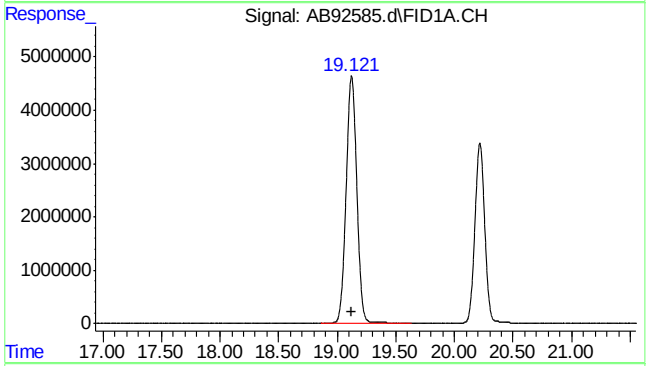

#5 benzene

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



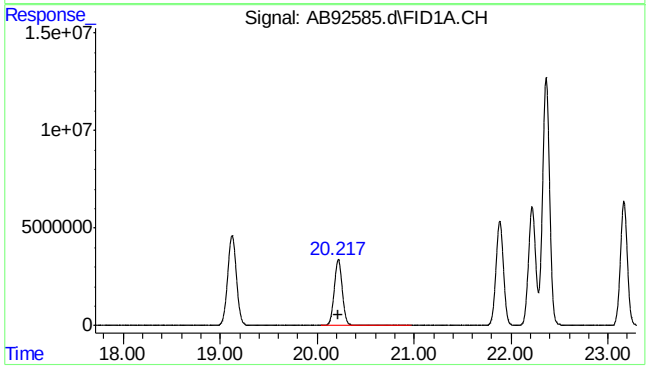

#6 fluorobenzene

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




#8 toluene

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




#9 2,3,4-trifluorotoluene

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

7.5.2

7



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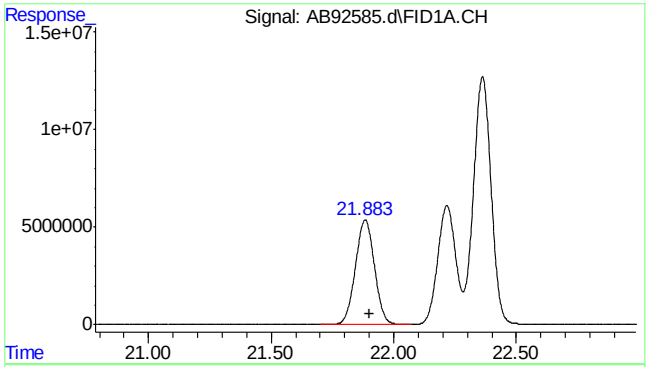
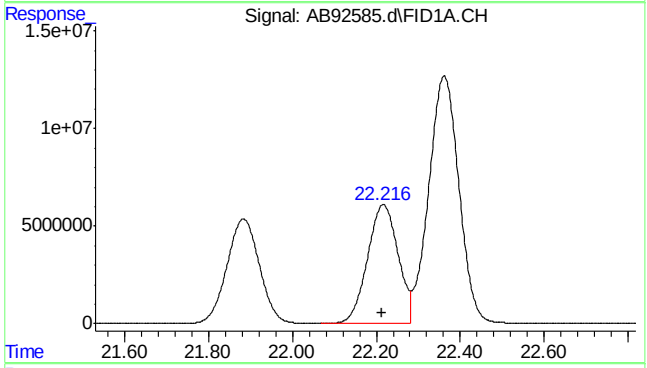


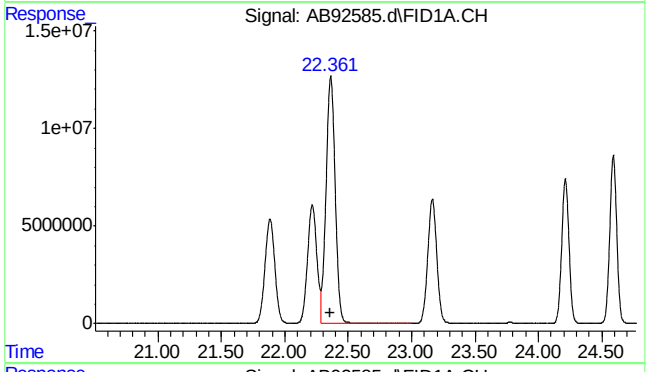

#11 rt20/25

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



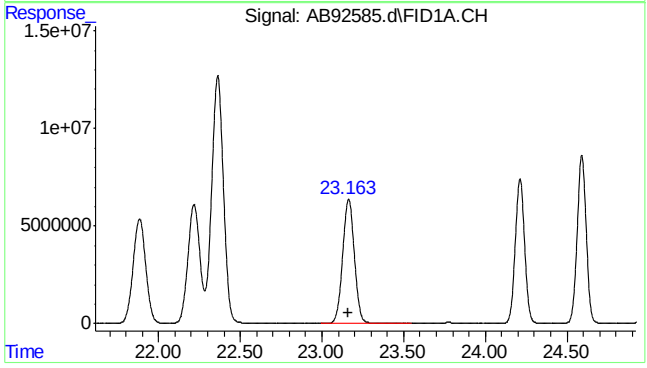

#13 ethylbenzene

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




#14 m,p-xylene

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



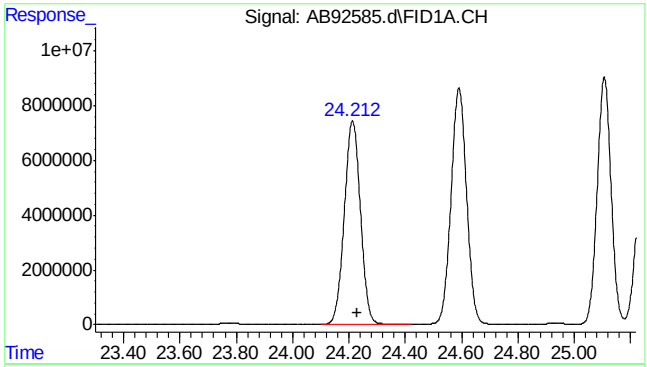

#15 o-xylene

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



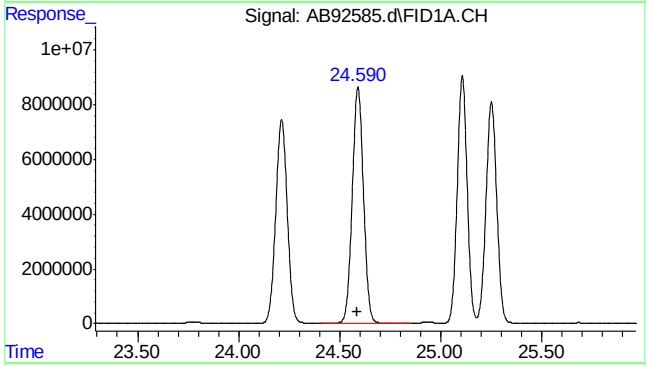


SGS ACCUTEST MC46487



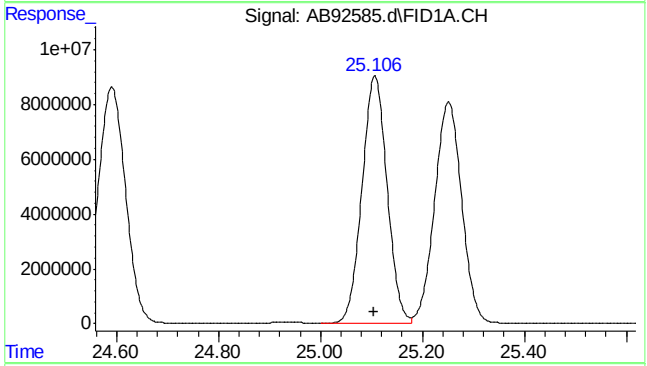

#16 decane

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



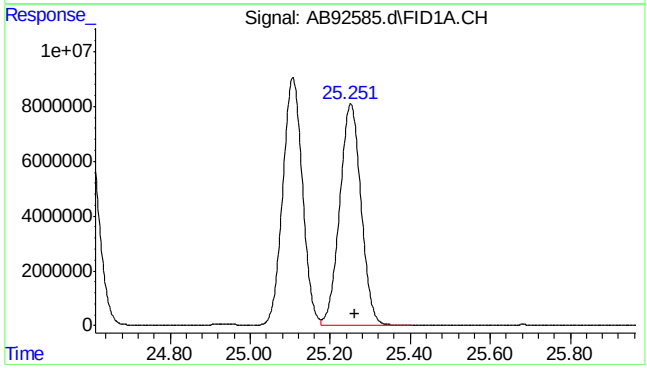

#17 1,3,5-trimethylbenzene

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




#18 1,2,4-trimethylbenzene

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




#19 butylcyclohexane

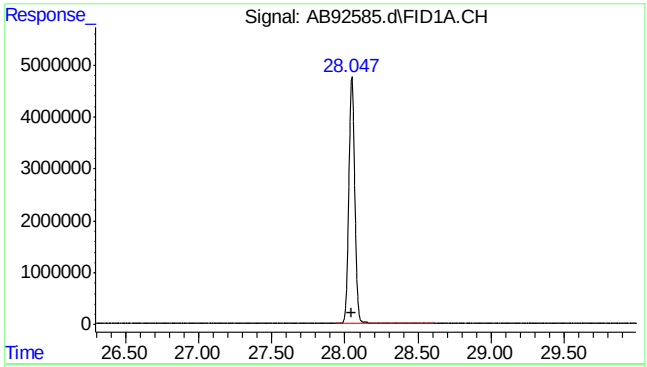
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 299471611
Conc: 440.77 ppb m

7.5.2

7

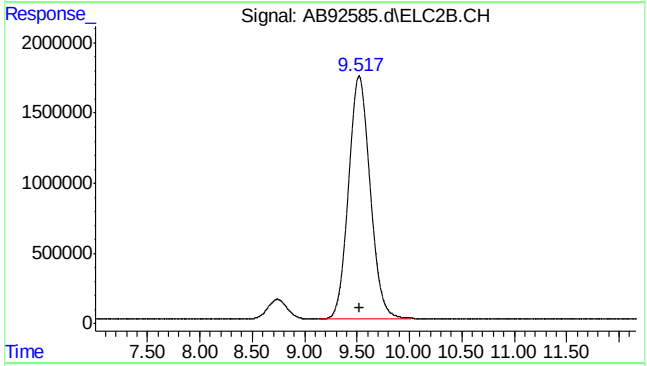


SGS ACCUTEST MC46487



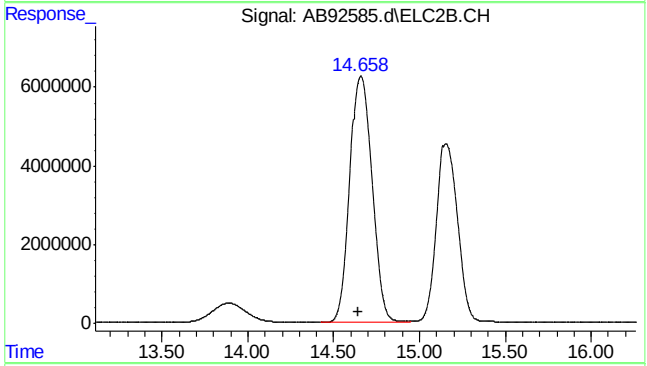

#20 naphthalene

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



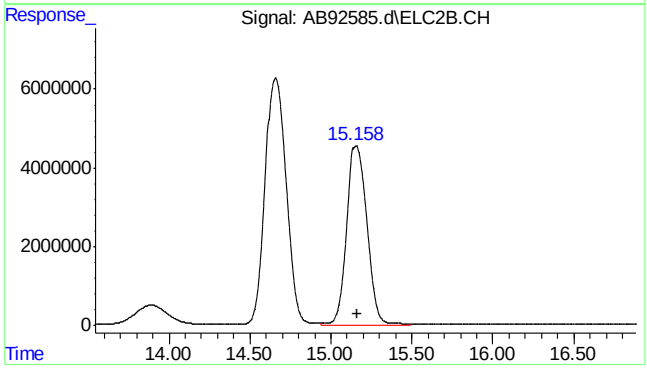

#23 mtbe #2

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




#24 benzene #2

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




#25 fluorobenzene #2

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

7.5.2

7



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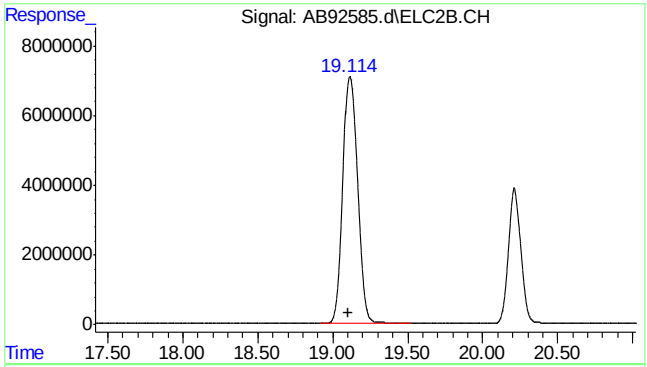
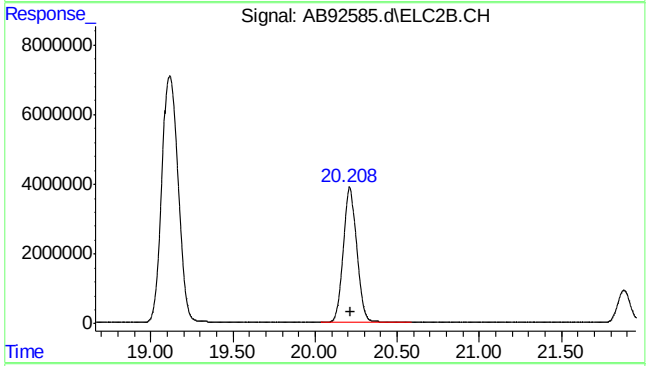


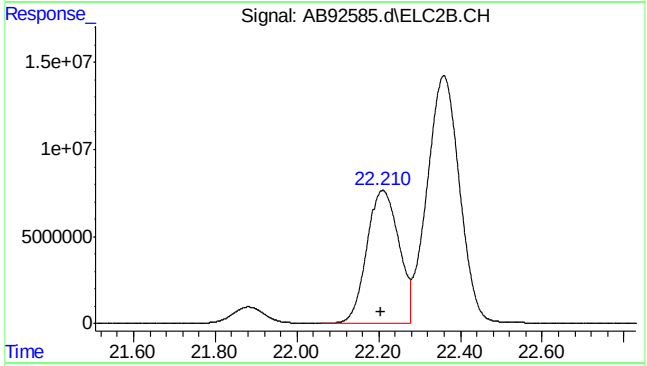

#26 toluene #2

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



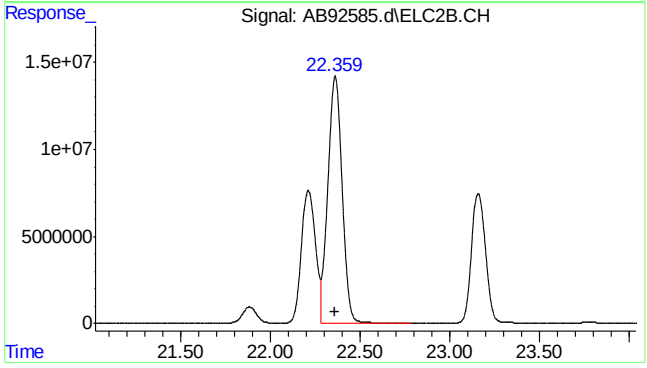

#27 2,3,4-trifluorotoluene #2

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




#28 ethylbenzene #2

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




#29 m,p-xylene #2

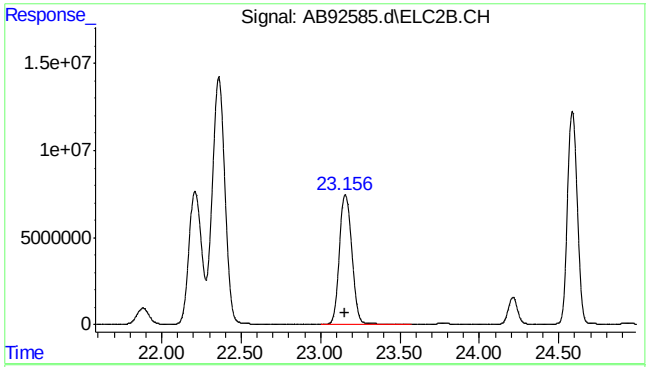
R.T.: 22.359 min
Delta R.T.: 0.004 min
Response: 786287585
Conc: 684.51 ppb

7.5.2

7

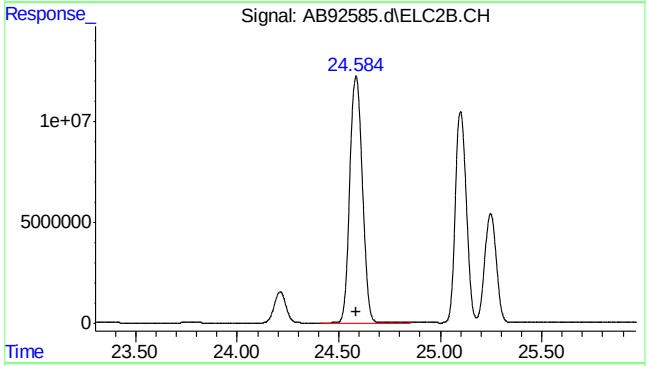


SGS ACCUTEST MC46487



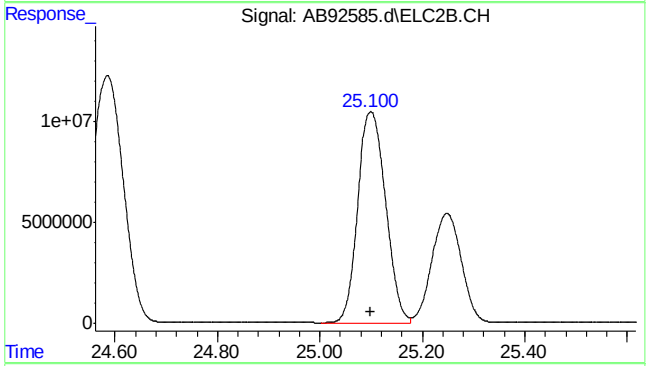

#30 o-xylene #2

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



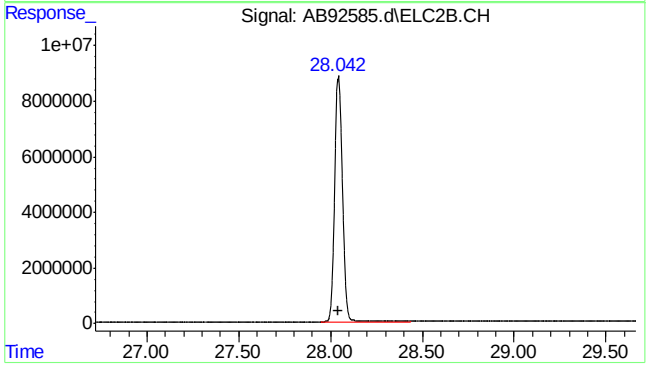

#31 1,3,5-trimethylbenzene #2

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




#32 1,2,4-trimethylbenzene #2

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



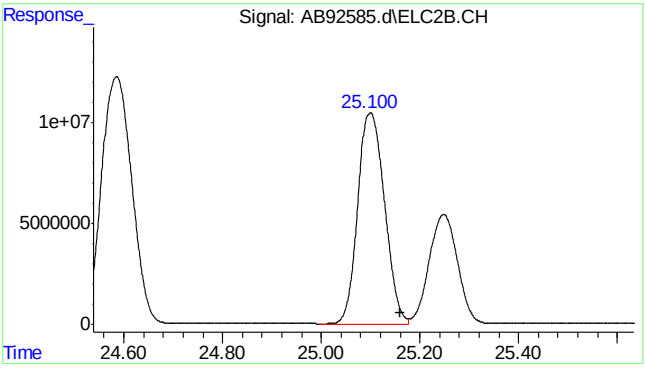

#33 naphthalene #2

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





SGS ACCUTEST MC46487




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

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

7.5.2

7



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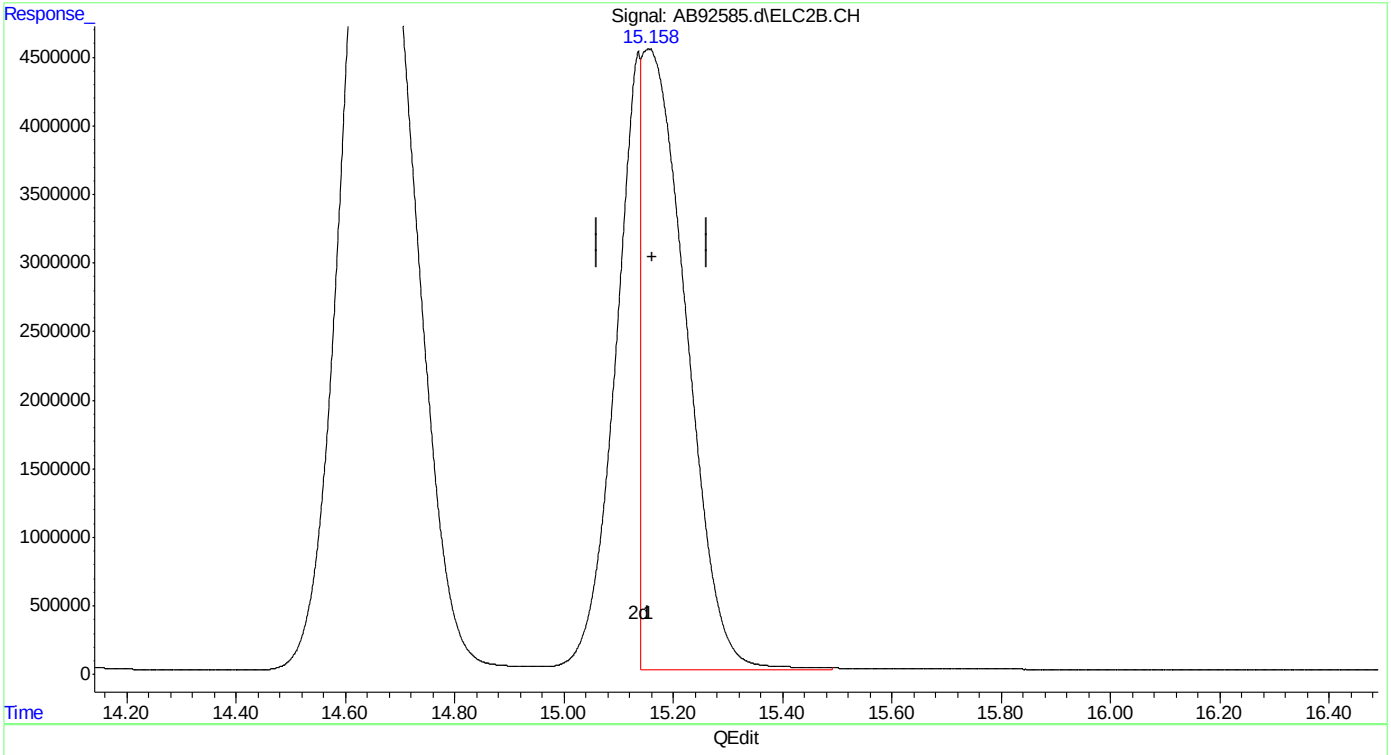
Quantitation Report (Qedit)

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

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

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




(25) fluorobenzene #2 (s)

15.154min 291.613 ppb

response 254102913

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:15:50 2016



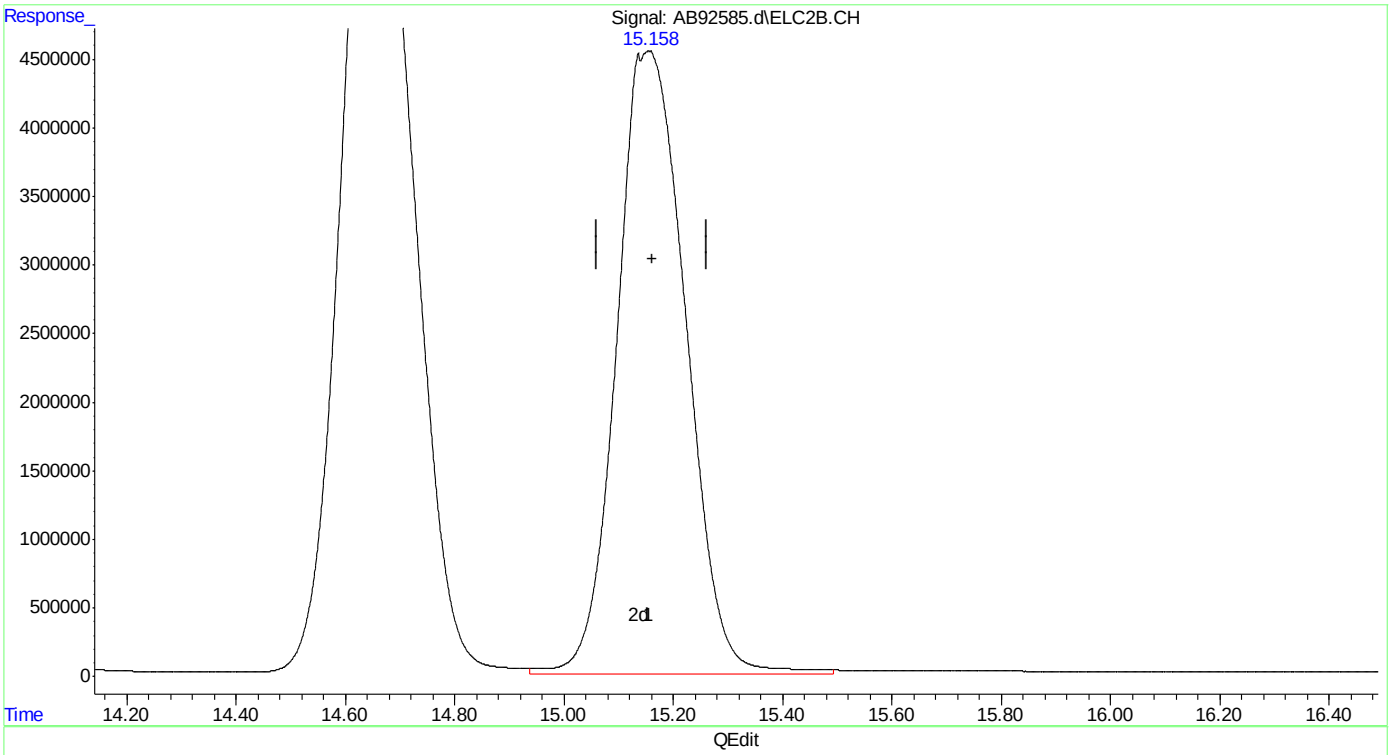
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

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

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




(25) fluorobenzene #2 (s)

15.158min 456.372 ppb m

response 397668816

(+) = Expected Retention Time

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



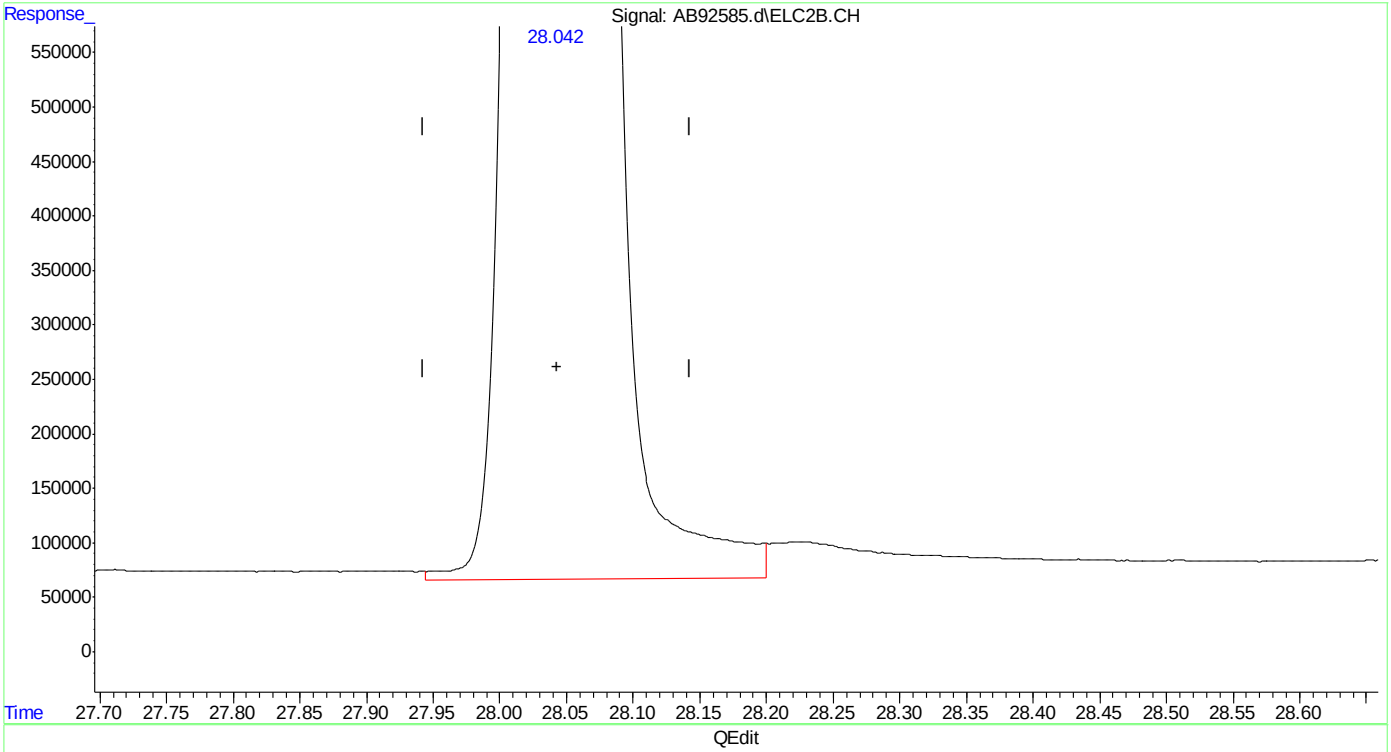
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

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

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




(33) naphthalene #2

28.042min 325.270 ppb

response 261828192

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:16:09 2016



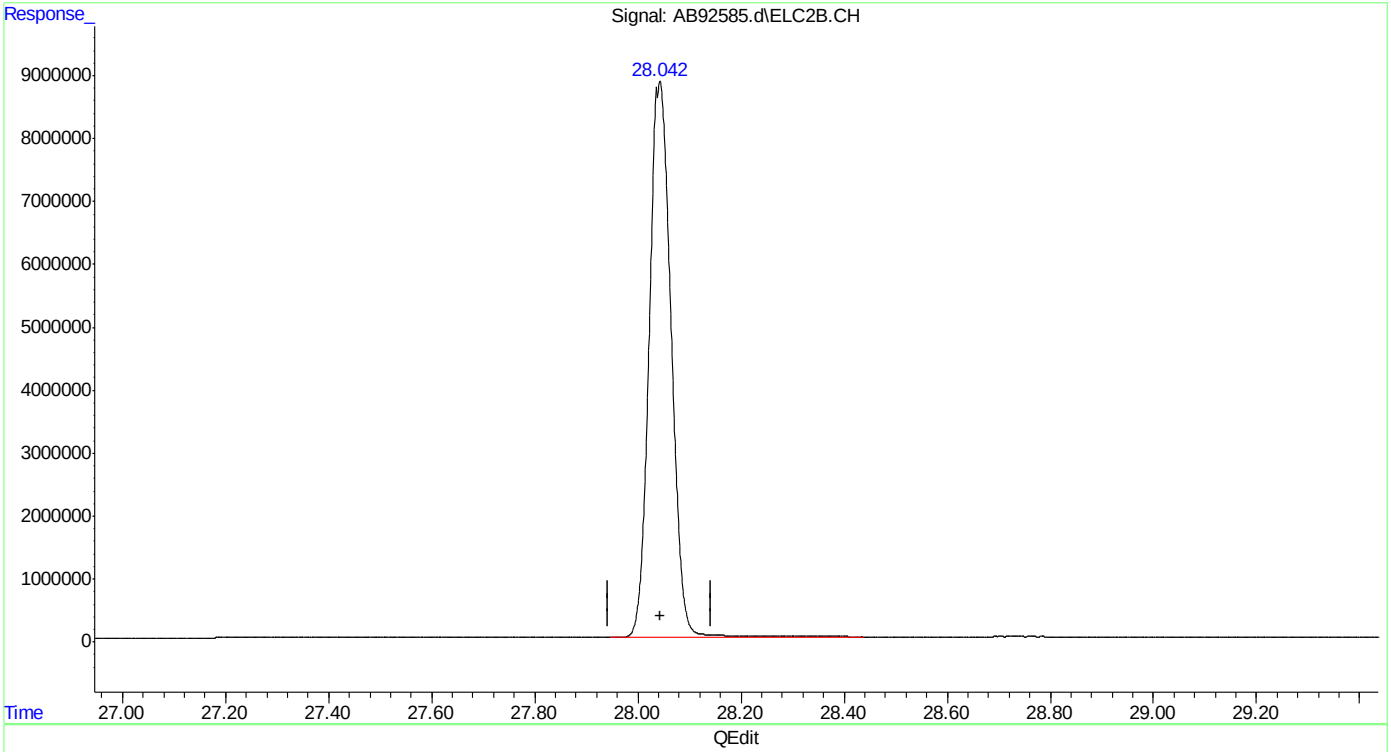
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

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

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




(33) naphthalene #2

28.042min 327.406 ppb m

response 263547441

(+) = Expected Retention Time

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



SGS ACCUTEST MC46487

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

Quantitation Report (QT Reviewed)

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

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

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

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

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



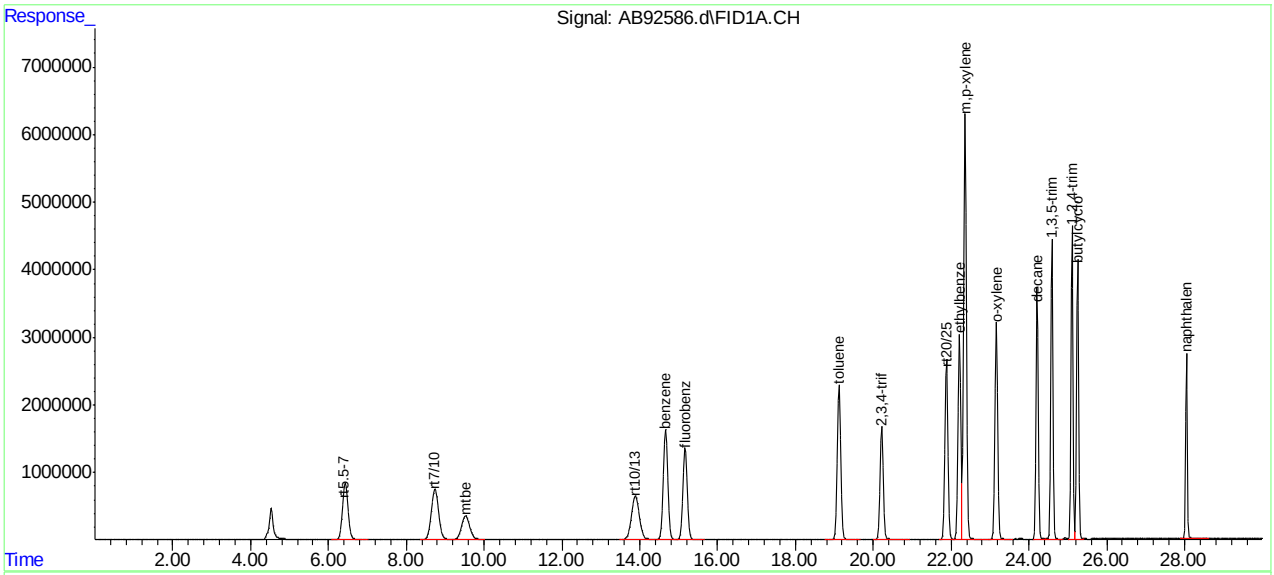
SGS ACCUTEST MC46487

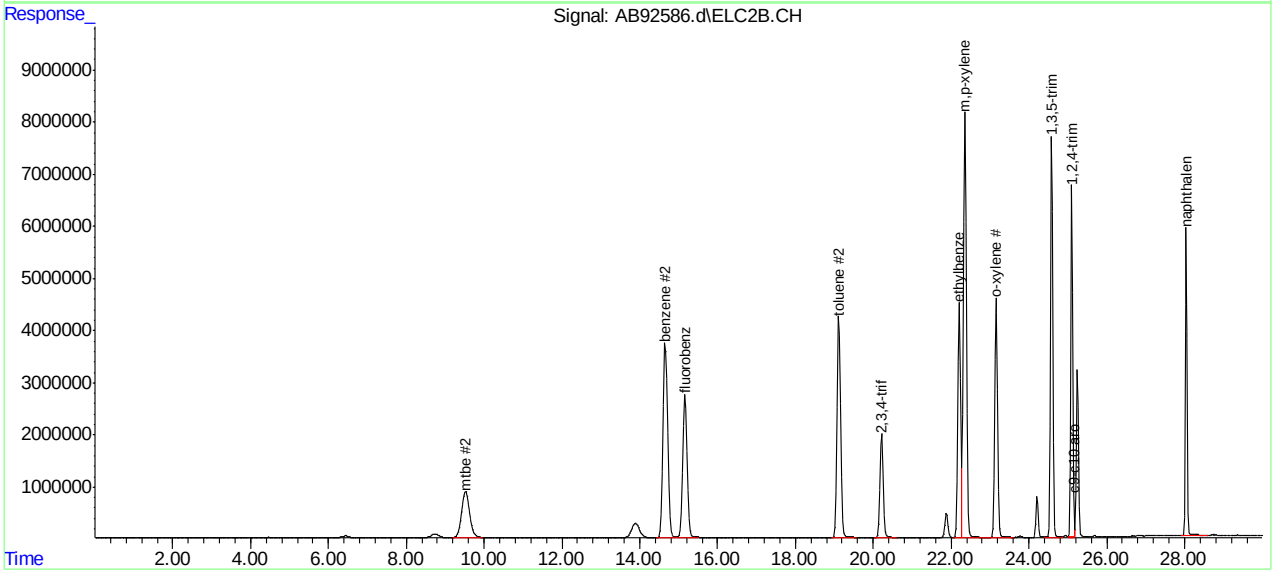
Quantitation Report (QT Reviewed)

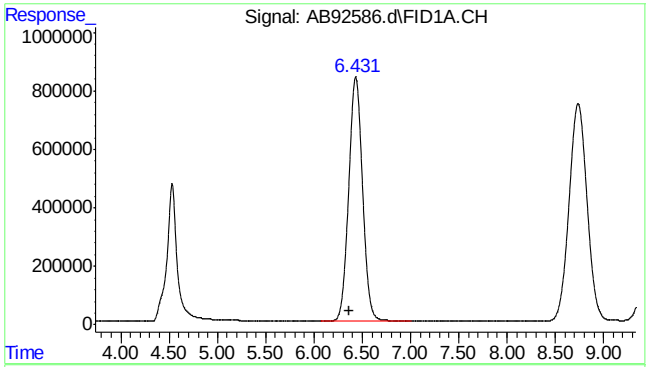
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92586.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 09:41:35
Operator : haleyn
Sample : ic5058-250
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 3 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

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

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

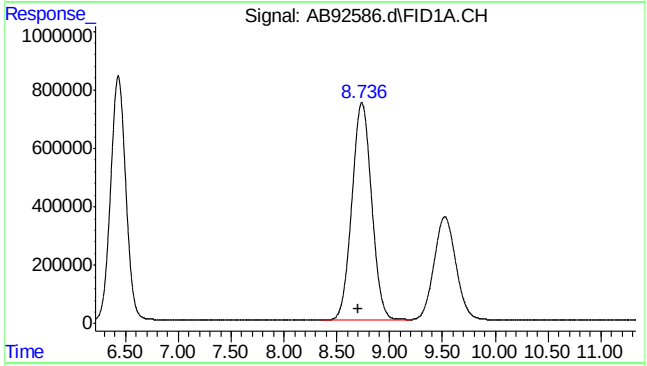




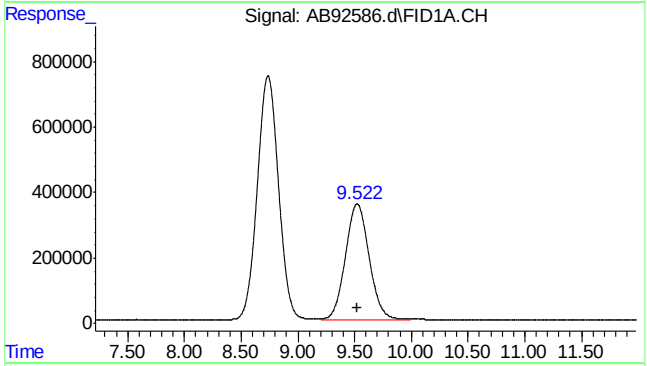

#1 rt5.5-7

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



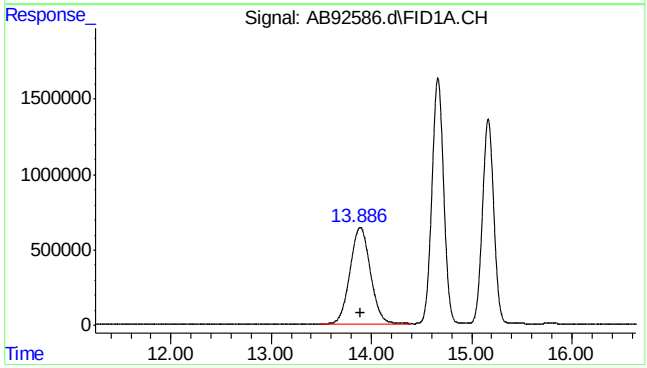

#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 96840946
Conc: 224.55 ppb m




#3 mtbe

R.T.: 9.522 min
Delta R.T.: -0.002 min
Response: 51254615
Conc: 234.12 ppb




#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 90504546
Conc: 187.30 ppb m

7.5.3

7



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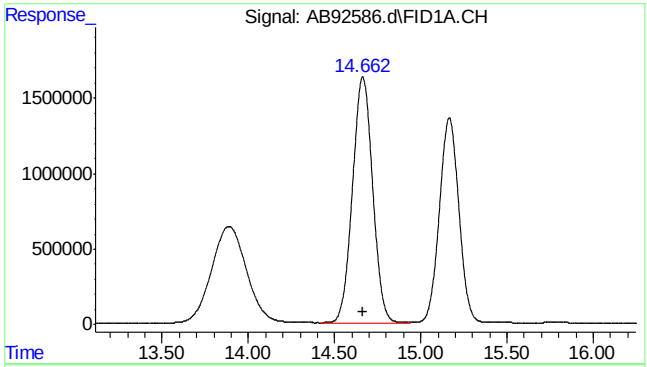
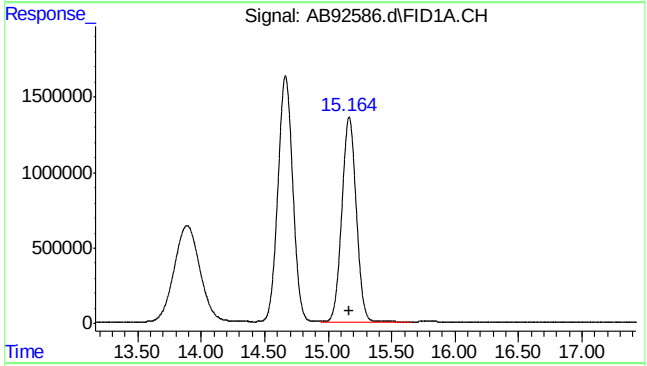


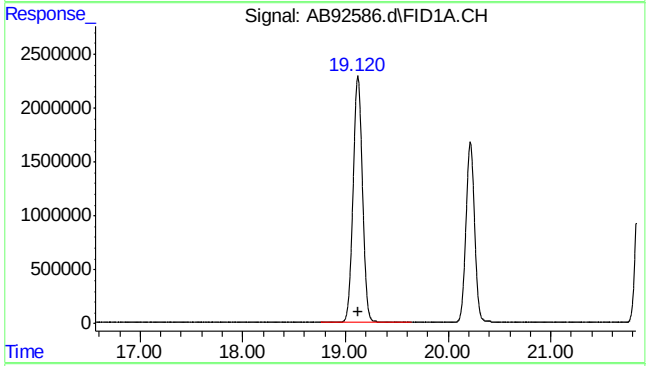

#5 benzene

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



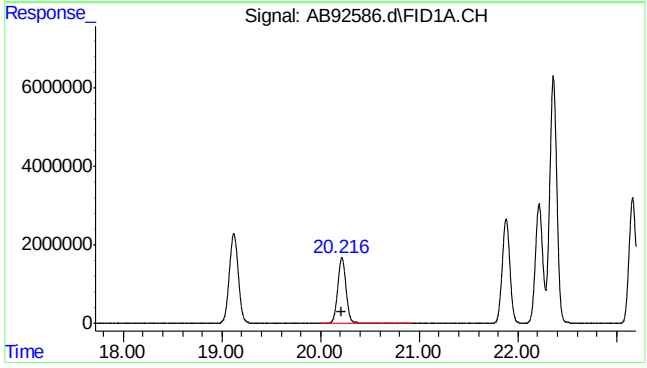

#6 fluorobenzene

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




#8 toluene

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

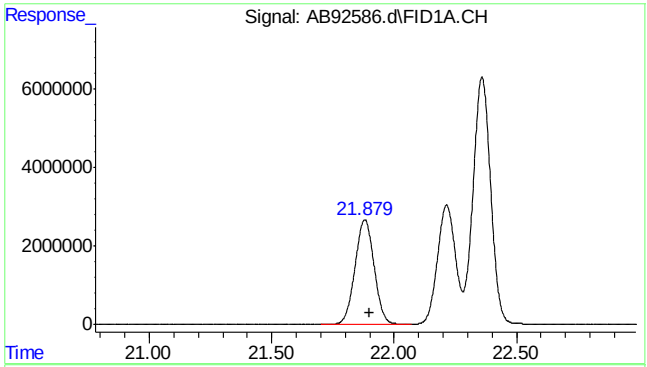



#9 2,3,4-trifluorotoluene

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

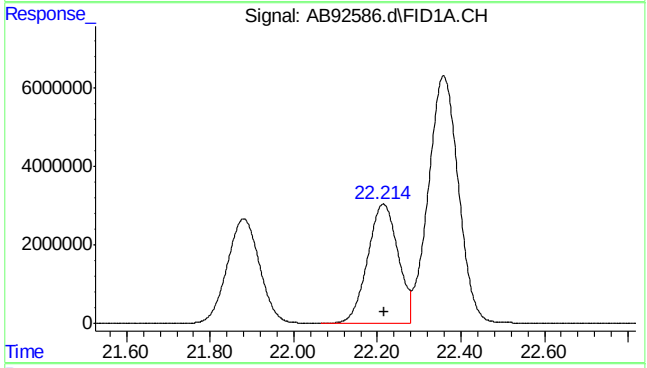


SGS ACCUTEST MC46487



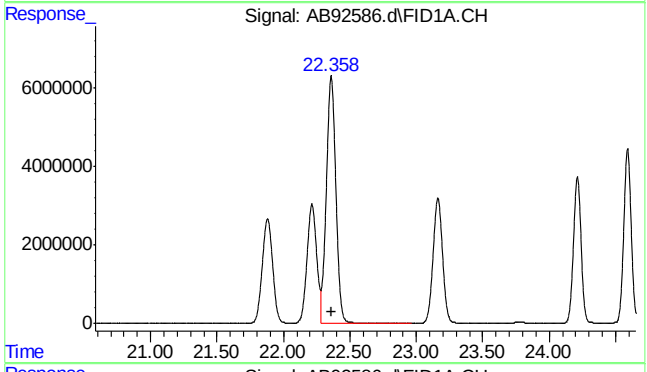

#11 rt20/25

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



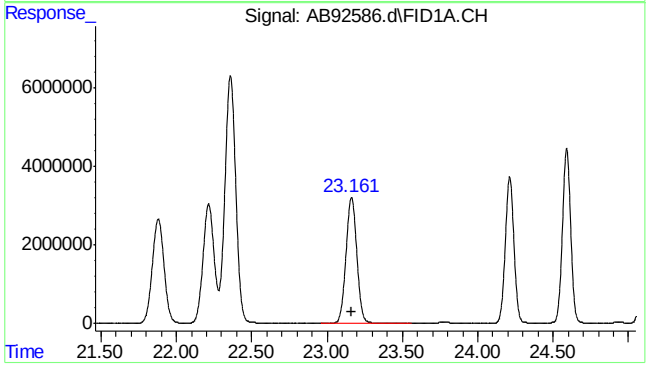

#13 ethylbenzene

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




#14 m,p-xylene

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




#15 o-xylene

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



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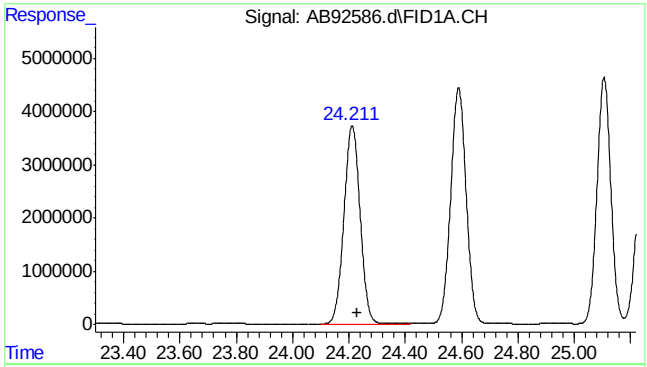
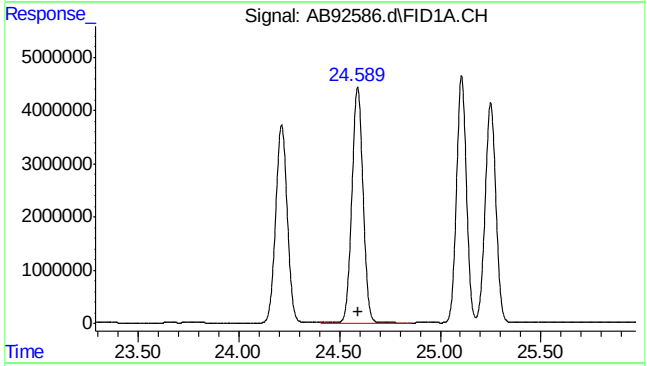


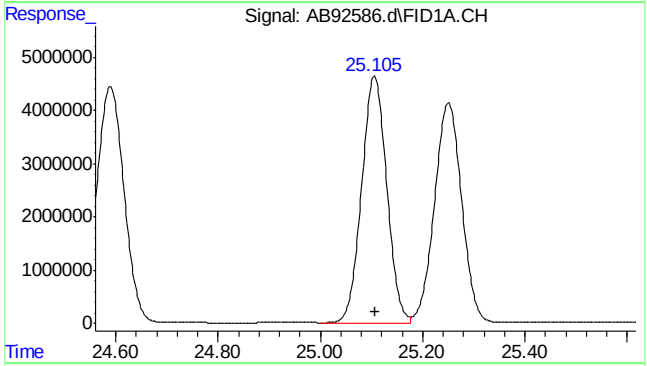

#16 decane

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



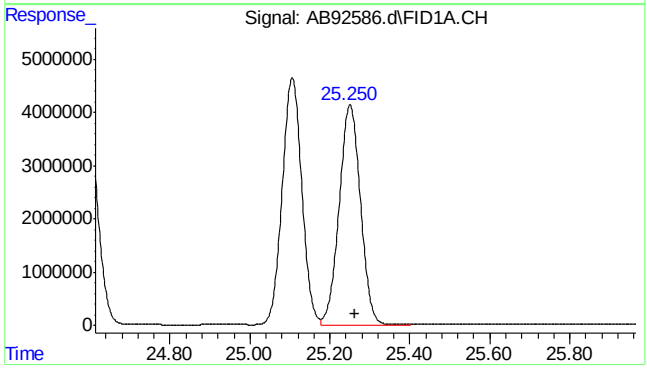

#17 1,3,5-trimethylbenzene

R.T.: 24.589 min
Delta R.T.: -0.002 min
Response: 170117803
Conc: 234.42 ppb



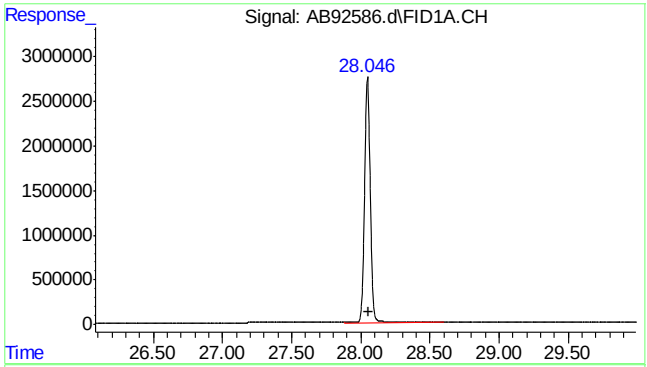

#18 1,2,4-trimethylbenzene

R.T.: 25.106 min
Delta R.T.: -0.002 min
Response: 158156158
Conc: 233.66 ppb



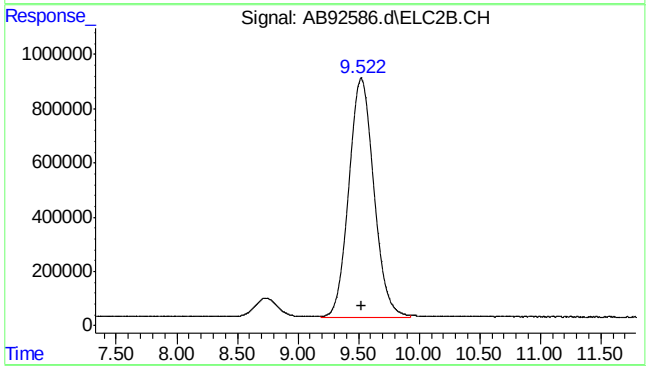

#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 153083117
Conc: 221.66 ppb m



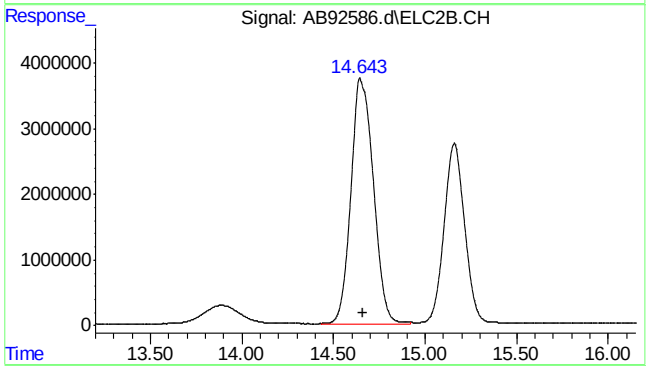

#20 naphthalene

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



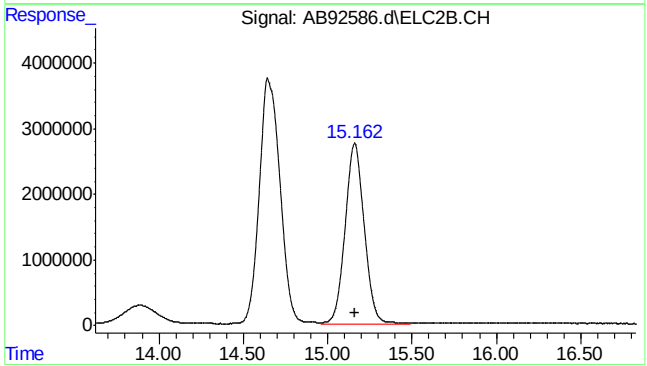

#23 mtbe #2

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




#24 benzene #2

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




#25 fluorobenzene #2

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



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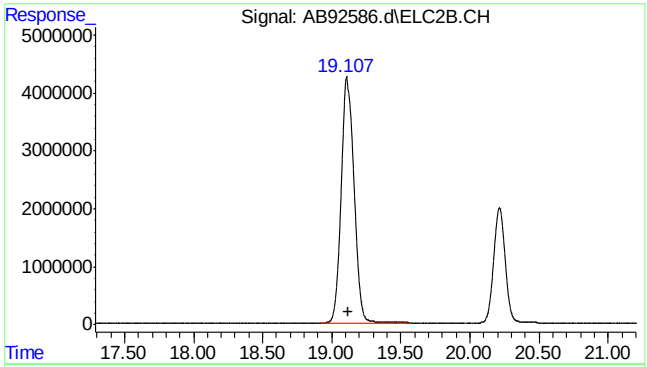
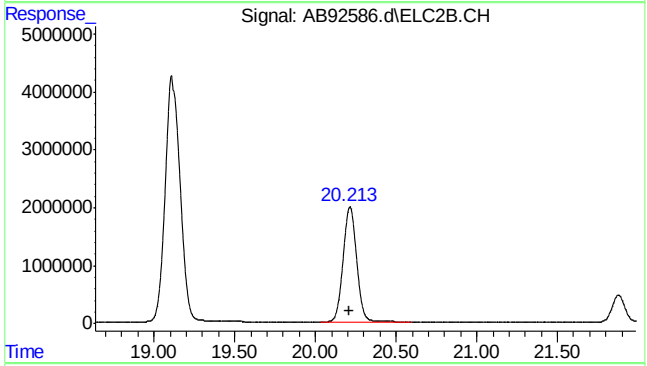


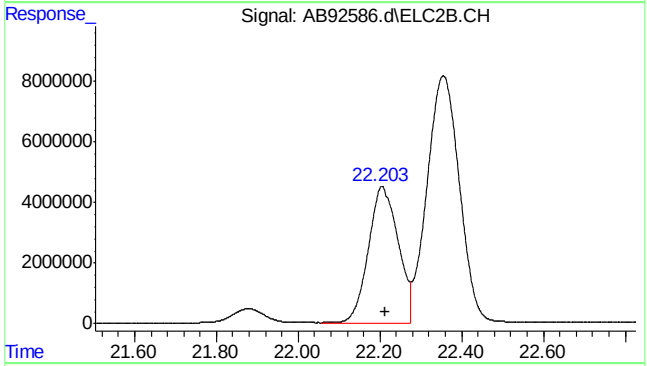

#26 toluene #2

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



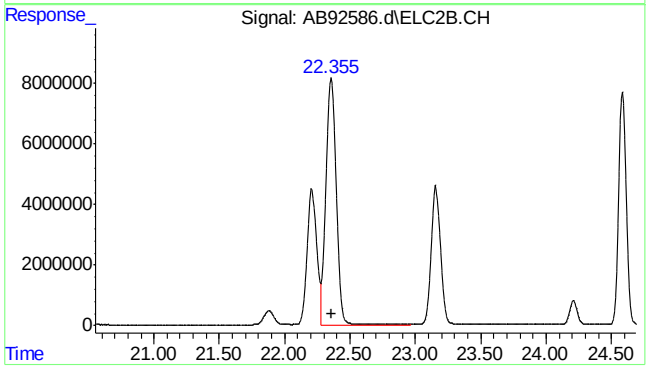

#27 2,3,4-trifluorotoluene #2

R.T.: 20.213 min
Delta R.T.: 0.000 min
Response: 116429742
Conc: 242.32 ppb




#28 ethylbenzene #2

R.T.: 22.205 min
Delta R.T.: -0.008 min
Response: 227655136
Conc: 232.51 ppb




#29 m,p-xylene #2

R.T.: 22.355 min
Delta R.T.: -0.002 min
Response: 451664302
Conc: 379.68 ppb



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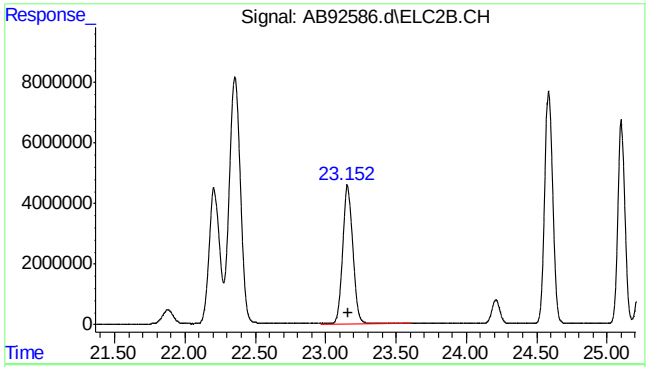
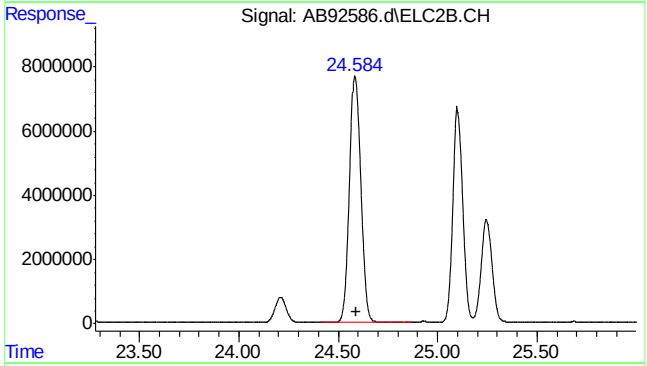


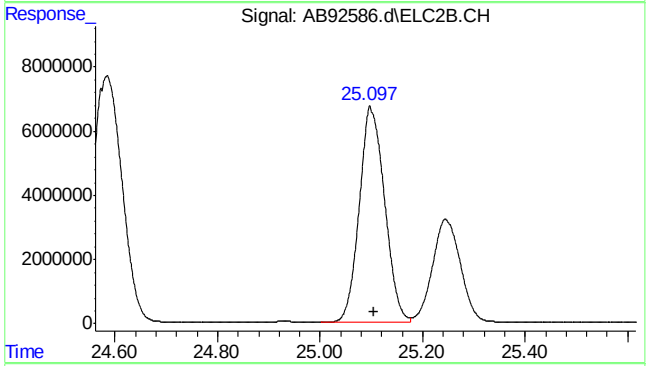

#30 o-xylene #2

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



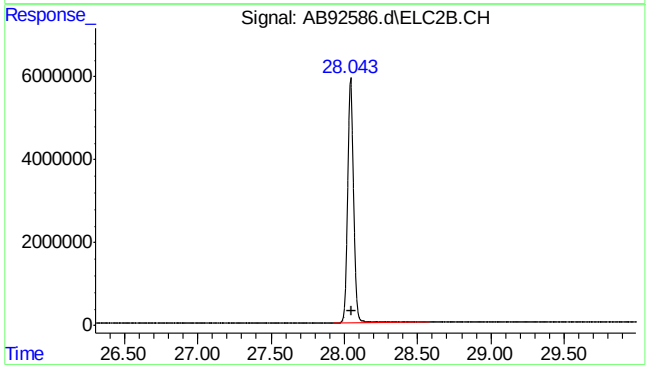

#31 1,3,5-trimethylbenzene #2

R.T.: 24.584 min
Delta R.T.: -0.004 min
Response: 312512766
Conc: 217.89 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.099 min
Delta R.T.: -0.006 min
Response: 231516865
Conc: 221.74 ppb




#33 naphthalene #2

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





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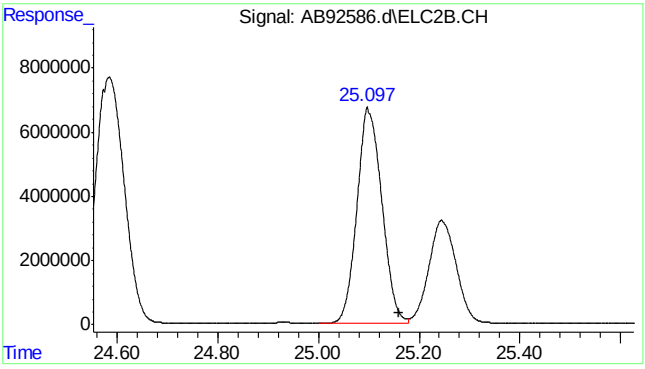


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 231134335
Conc: 220.99 ppb m





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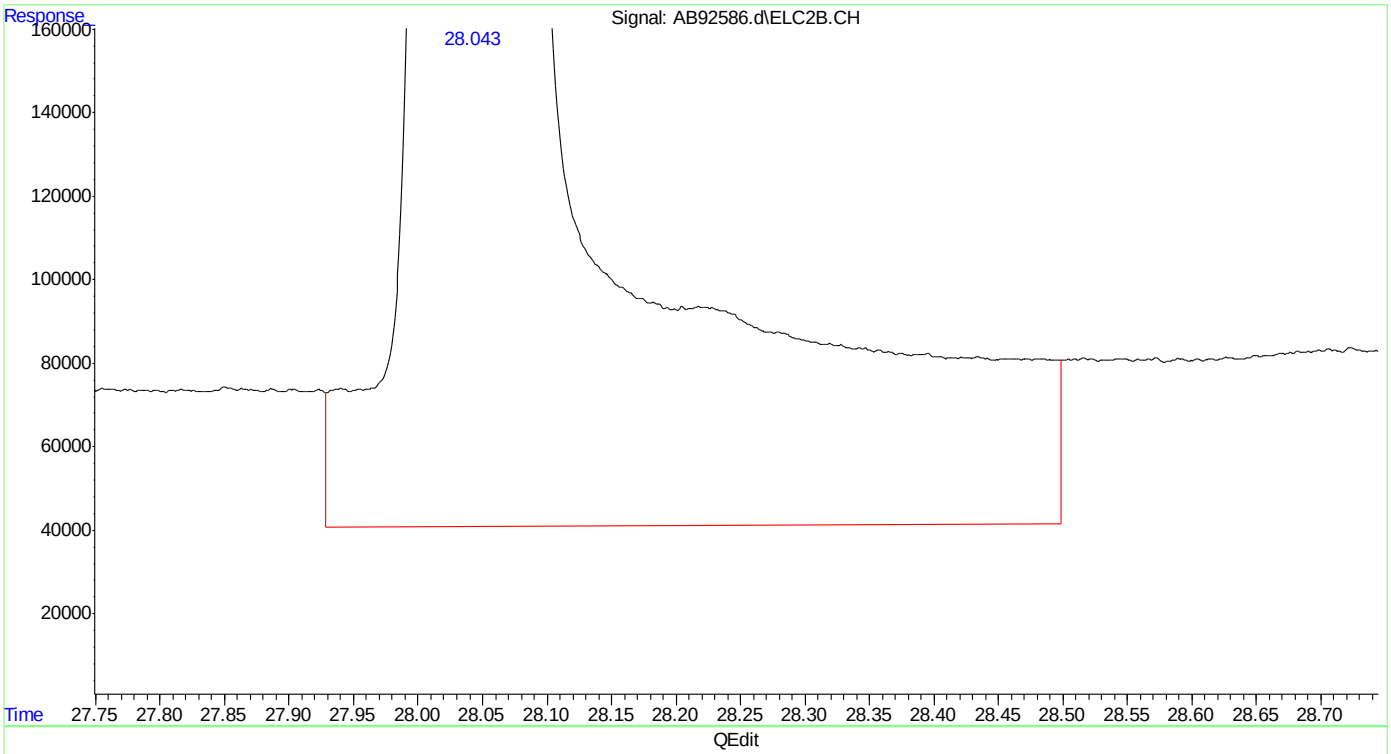
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2

28.043min 211.662 ppb

response 175614363

(+) = Expected Retention Time

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



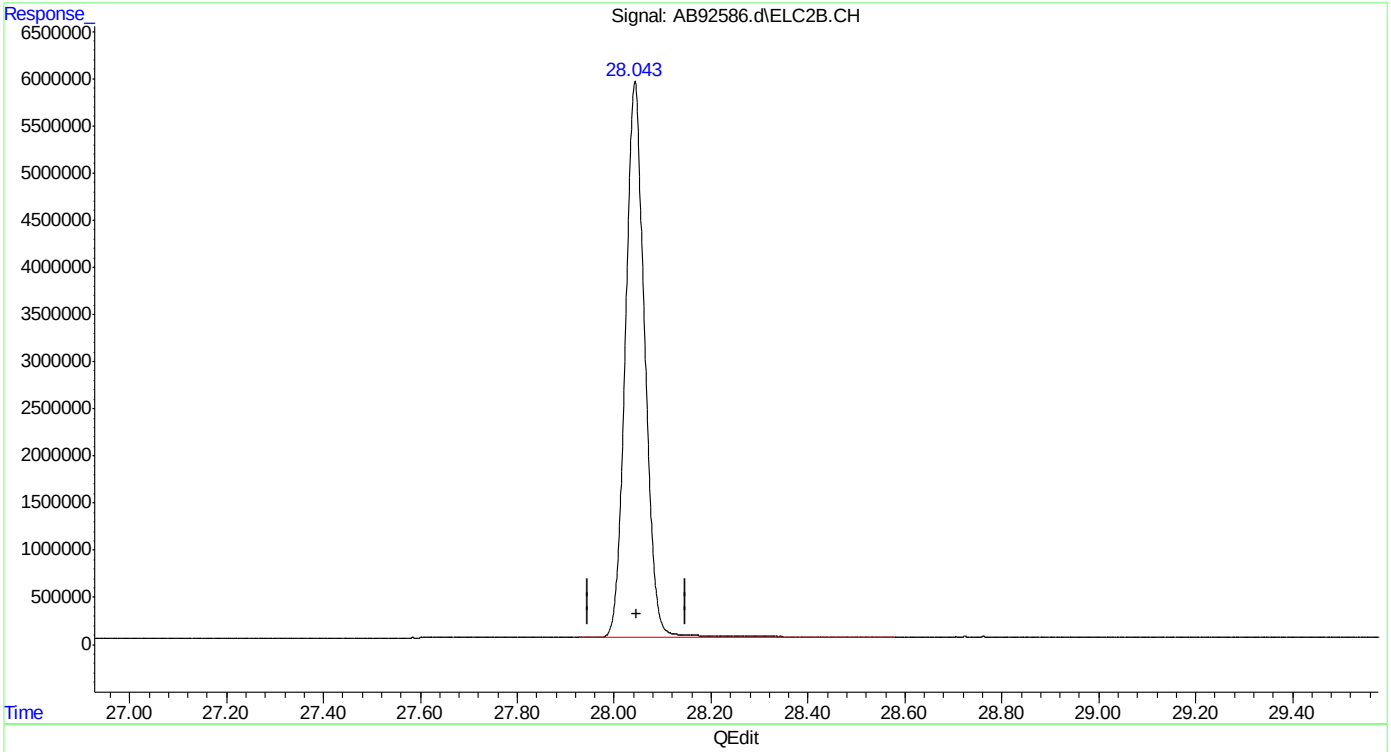
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:11:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:10:50 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2

28.043min 197.827 ppb m

response 164135600

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:13:34 2016





SGS ACCUTEST MC46487

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

Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units | |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 6) s fluorobenzene | 15.167 | 42874905 | 96.209 ppb | |
| Spiked Amount 50.000 | | Recovery | = 192.42% | |
| 9) s 2,3,4-trifluorotoluene | 20.218 | 38719163 | 91.231 ppb | |
| Spiked Amount 50.000 | | Recovery | = 182.46% | |
| 25) s fluorobenzene #2 | 15.162 | 87953233 | 100.944 ppb | |
| Spiked Amount 50.000 | | Recovery | = 201.89% | |
| 27) s 2,3,4-trifluorotoluen... | 20.214 | 46259176 | 95.565 ppb | m |
| Spiked Amount 50.000 | | Recovery | = 191.13% | |
| Target Compounds | | | | |
| 1) h rt5.5-7 | 6.370 | 33420619 | 86.690 ppb | m |
| 2) h rt7/10 | 8.710 | 38500243 | 87.399 ppb | m |
| 3) mtbe | 9.524 | 20798394 | 94.064 ppb | |
| 4) h rt10/13 | 13.890 | 40723060 | 81.706 ppb | m |
| 5) benzene | 14.665 | 52977749 | 95.426 ppb | |
| 8) toluene | 19.122 | 57912641 | 94.743 ppb | |
| 11) h rt20/25 | 21.900 | 55977584 | 89.473 ppb | m |
| 13) ethylbenzene | 22.216 | 61308787 | 94.467 ppb | |
| 14) m,p-xylene | 22.360 | 126492488 | 186.464 ppb | |
| 15) o-xylene | 23.164 | 63851790 | 94.181 ppb | |
| 16) h decane | 24.230 | 57632960 | 89.625 ppb | |
| 17) t 1,3,5-trimethylbenzene | 24.591 | 68200557 | 92.863 ppb | |
| 18) 1,2,4-trimethylbenzene | 25.108 | 63362367 | 92.432 ppb | |
| 19) h butylcyclohexane | 25.263 | 60198202 | 84.984 ppb | m |
| 20) naphthalene | 28.051 | 33356972 | 83.465 ppb | |
| 23) mtbe #2 | 9.522 | 49818196 | 96.580 ppb | m |
| 24) benzene #2 | 14.662 | 137692860 | 99.623 ppb | |
| 26) toluene #2 | 19.120 | 117752936 | 95.659 ppb | |
| 28) ethylbenzene #2 | 22.213 | 97082156 | 98.984 ppb | |
| 29) m,p-xylene #2 | 22.357 | 212950656 | 175.332 ppb | |
| 30) o-xylene #2 | 23.162 | 97755578 | 97.483 ppb | |
| 31) t 1,3,5-trimethylbenzen... | 24.588 | 137643497 | 95.198 ppb | |
| 32) 1,2,4-trimethylbenzen... | 25.105 | 100143723 | 95.140 ppb | |
| 33) naphthalene #2 | 28.047 | 72366482 | 85.047 ppb | m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 100268044 | 95.080 ppb | m |

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



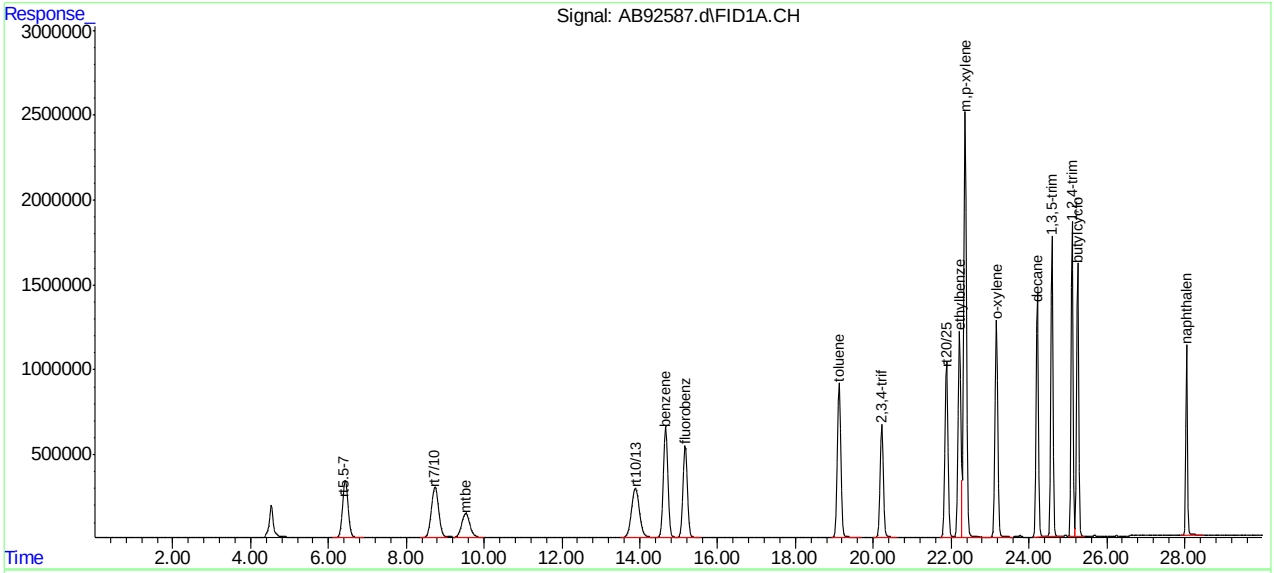
SGS ACCUTEST MC46487

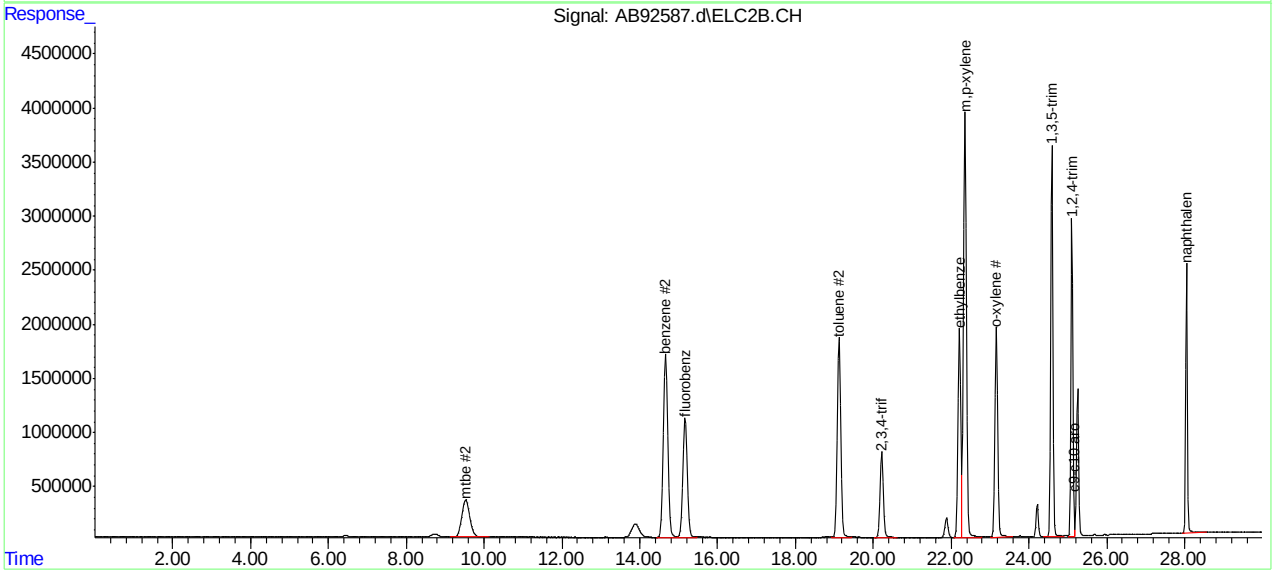
Quantitation Report (QT Reviewed)

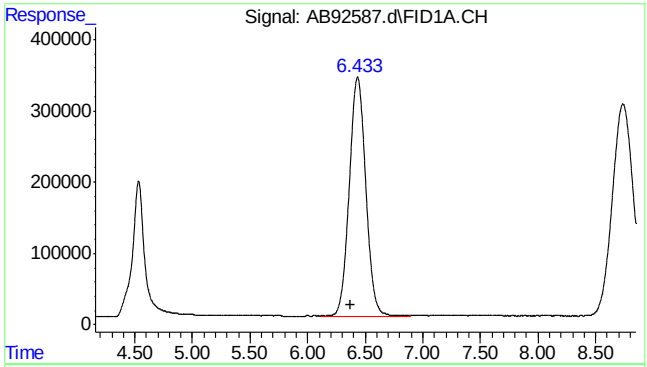
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92587.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 10:18:42
Operator : haleyn
Sample : ic5058-100
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 4 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:10:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

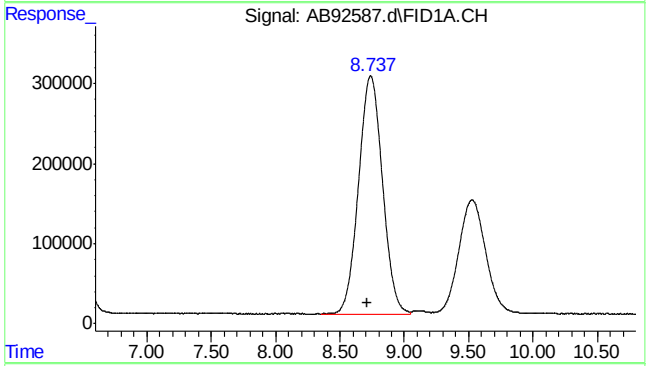




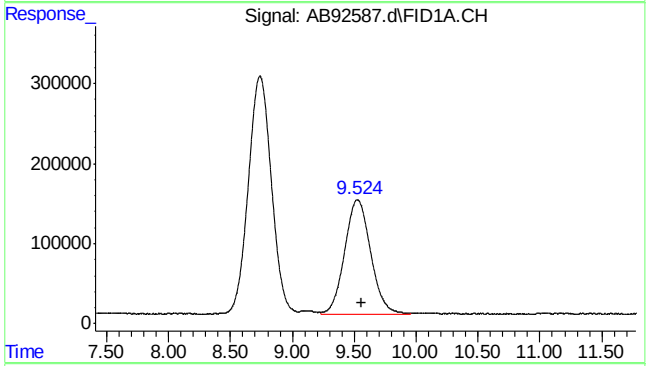

#1 rt5.5-7

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



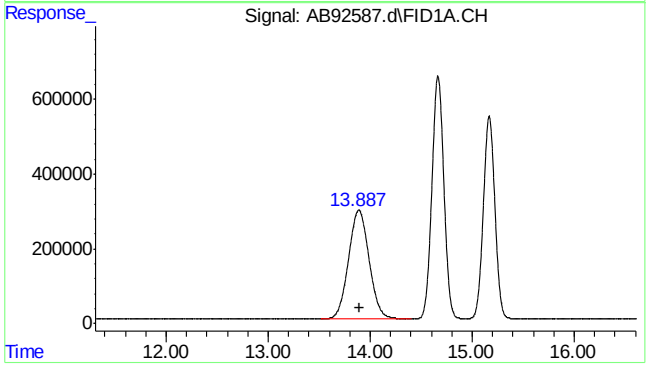

#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 38500243
Conc: 87.40 ppb m




#3 mtbe

R.T.: 9.524 min
Delta R.T.: -0.041 min
Response: 20798394
Conc: 94.06 ppb




#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 40723060
Conc: 81.71 ppb m





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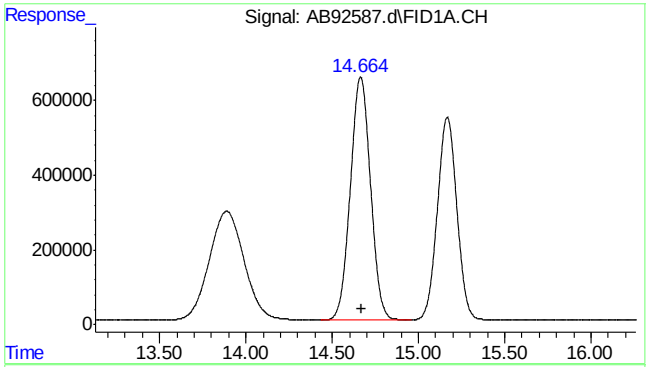
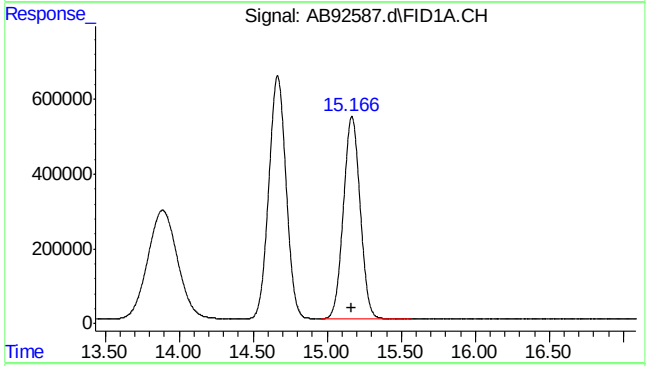


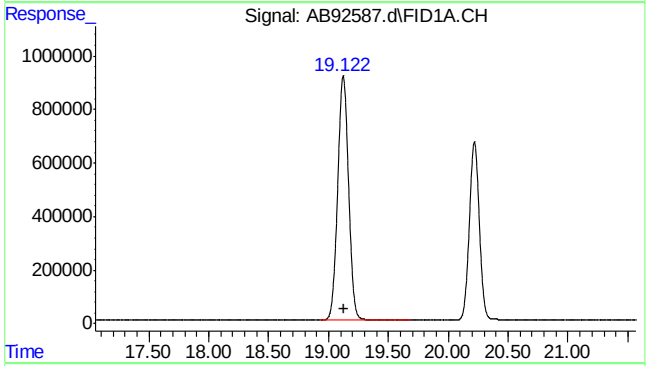

#5 benzene

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



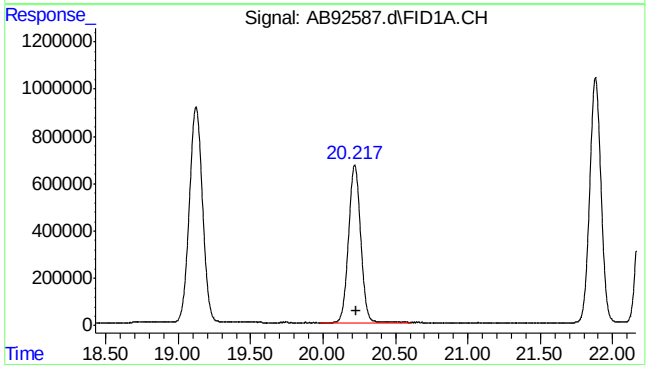

#6 fluorobenzene

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



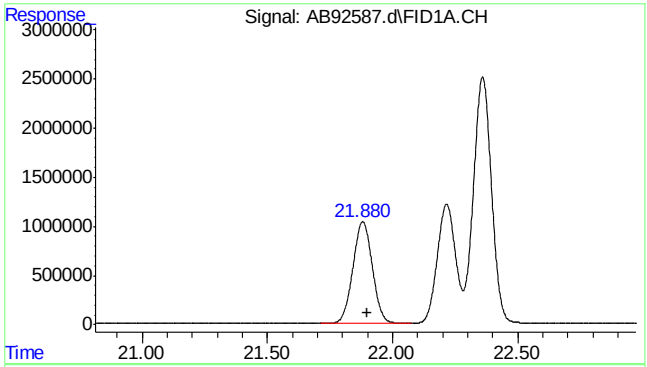

#8 toluene

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



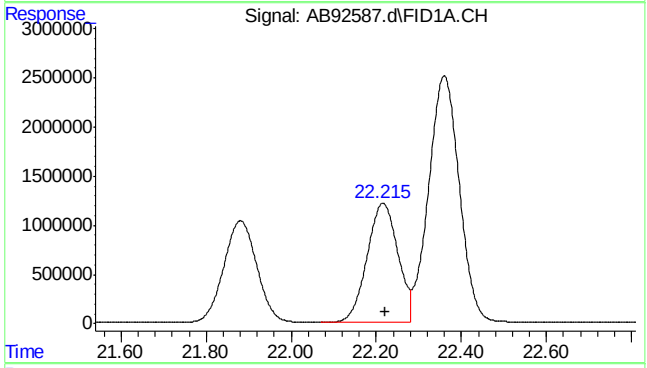

#9 2,3,4-trifluorotoluene

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



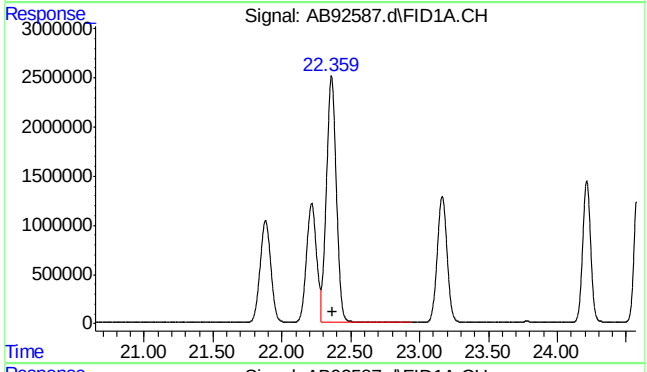

#11 rt20/25

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



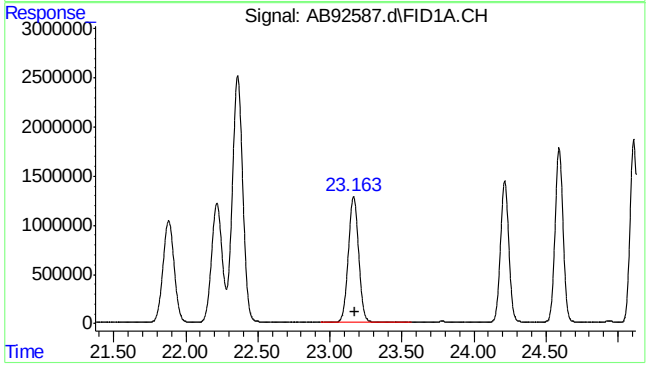

#13 ethylbenzene

R.T.: 22.216 min
Delta R.T.: -0.005 min
Response: 61308787
Conc: 94.47 ppb




#14 m,p-xylene

R.T.: 22.360 min
Delta R.T.: -0.010 min
Response: 126492488
Conc: 186.46 ppb




#15 o-xylene

R.T.: 23.164 min
Delta R.T.: -0.011 min
Response: 63851790
Conc: 94.18 ppb





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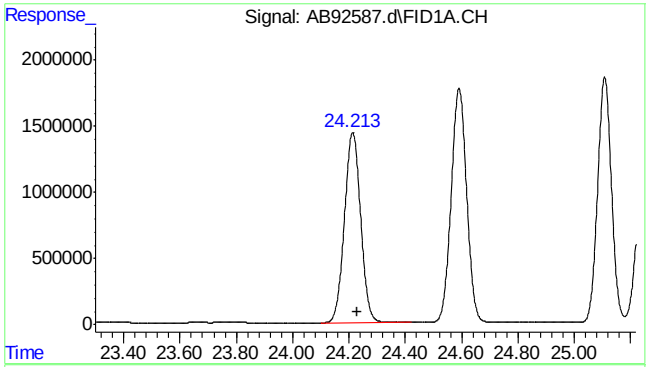
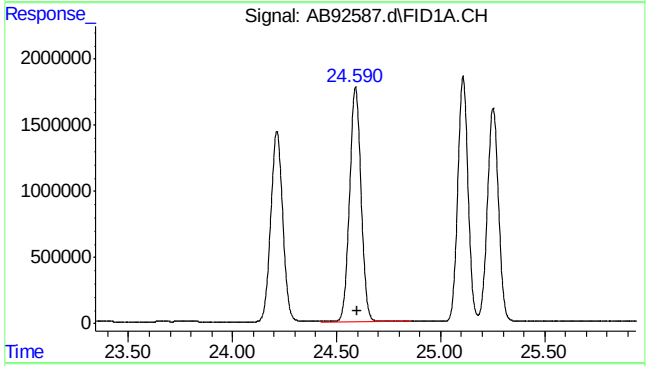


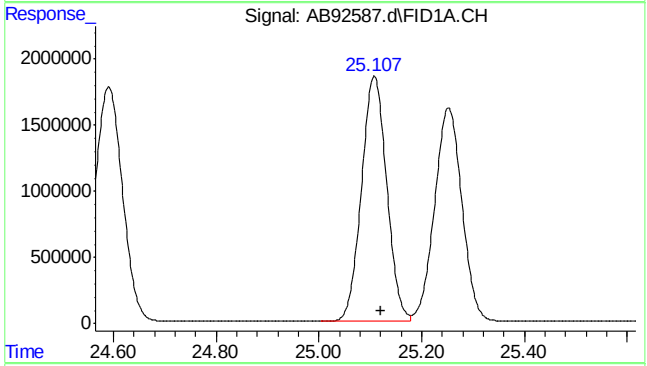

#16 decane

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



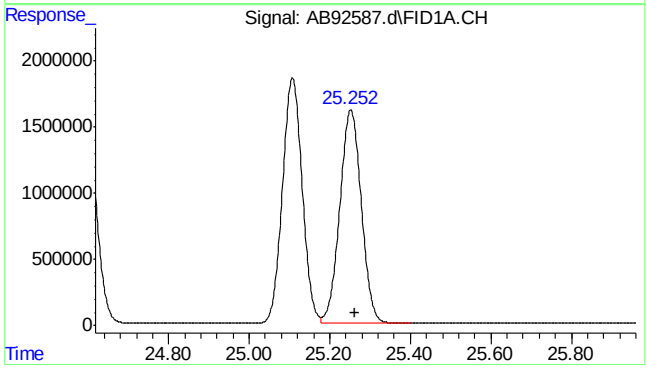

#17 1,3,5-trimethylbenzene

R.T.: 24.591 min
Delta R.T.: -0.010 min
Response: 68200557
Conc: 92.86 ppb




#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: -0.013 min
Response: 63362367
Conc: 92.43 ppb




#19 butylcyclohexane

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





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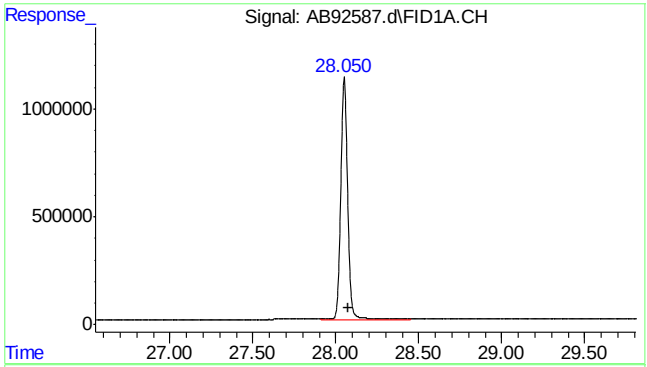
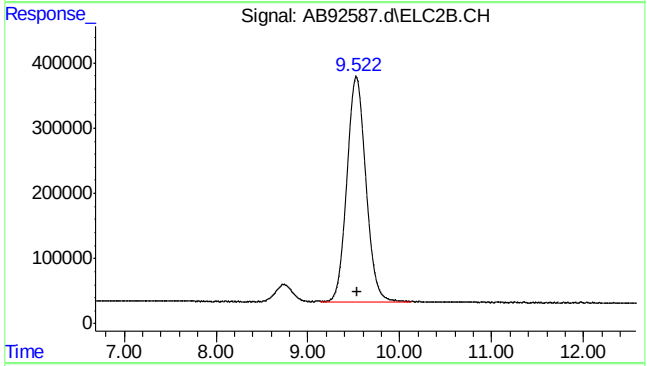


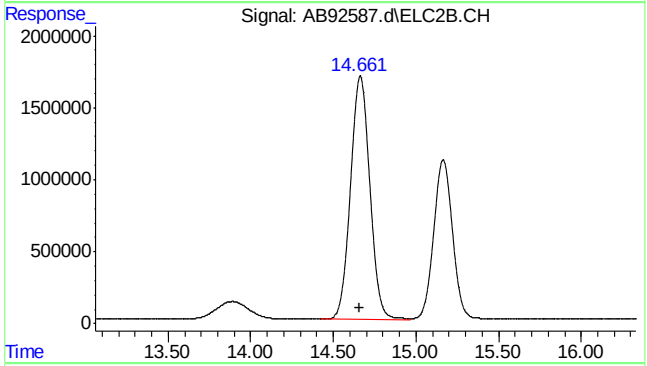

#20 naphthalene

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



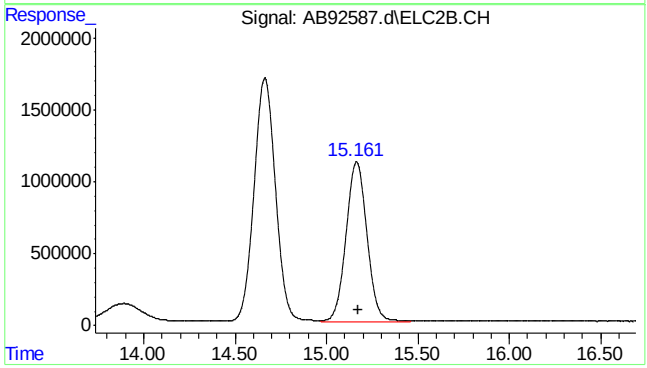

#23 mtbe #2

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




#24 benzene #2

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

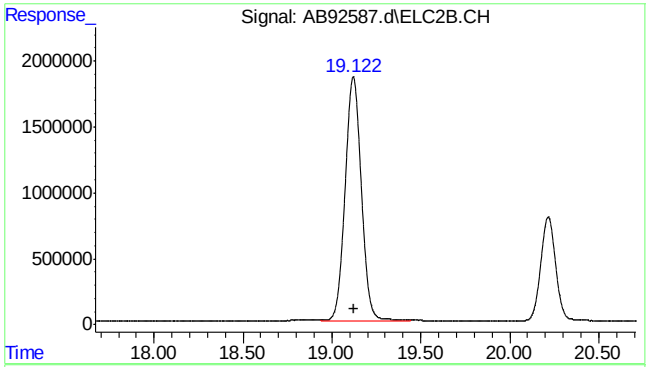



#25 fluorobenzene #2

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

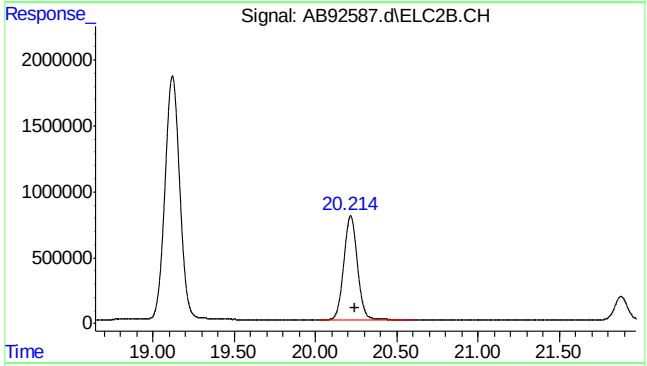


SGS ACCUTEST MC46487



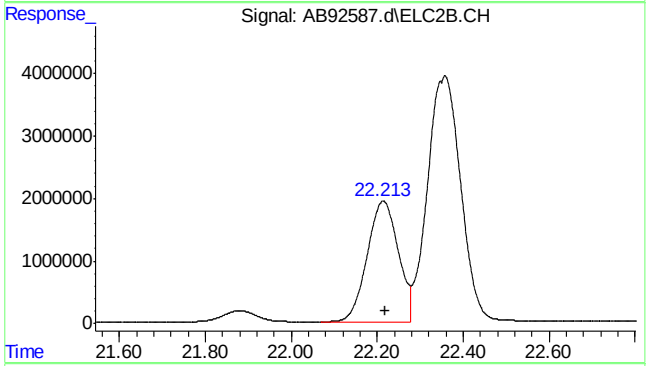

#26 toluene #2

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



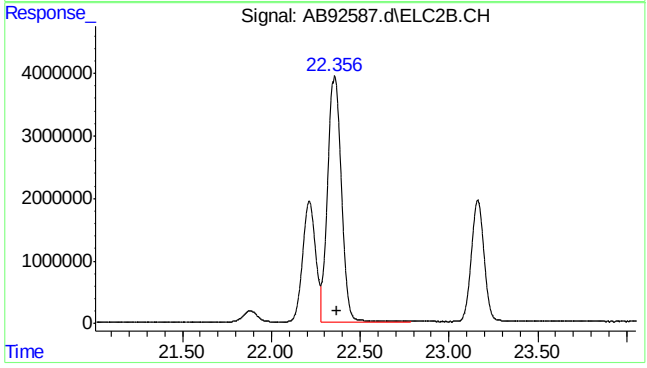

#27 2,3,4-trifluorotoluene #2

R.T.: 20.214 min
Delta R.T.: -0.027 min
Response: 46259176
Conc: 95.56 ppb m




#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: -0.006 min
Response: 97082156
Conc: 98.98 ppb




#29 m,p-xylene #2

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

7.5.4

7



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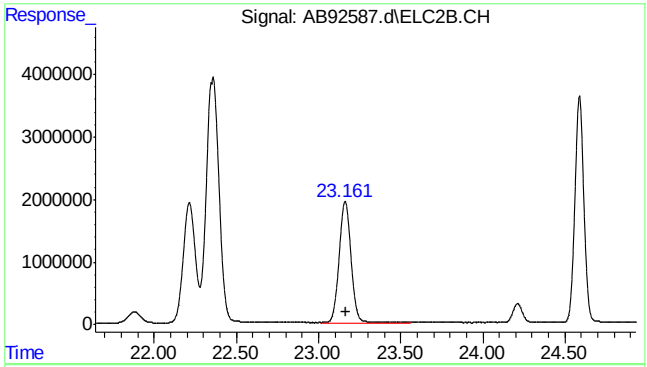
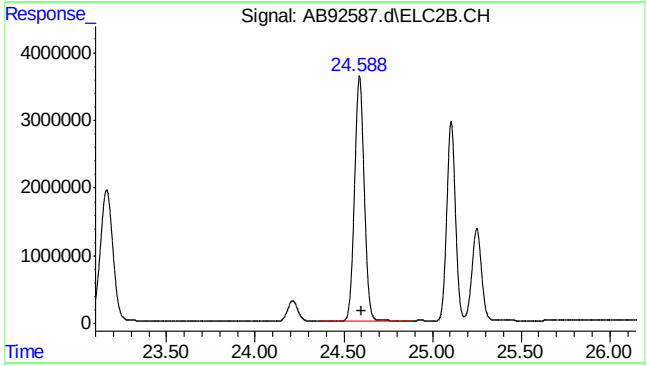


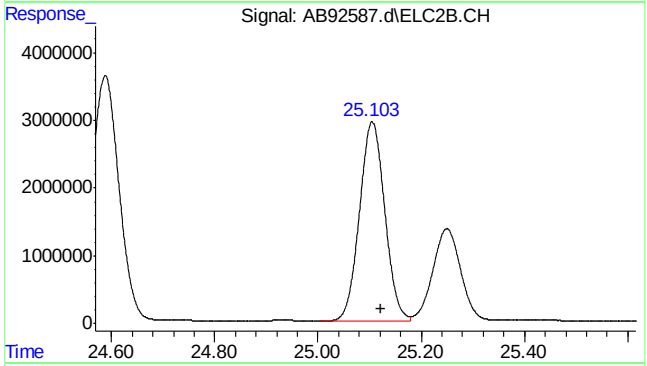

#30 o-xylene #2

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



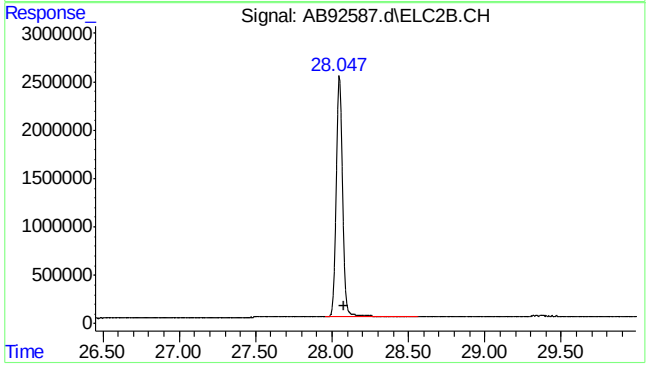

#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: -0.011 min
Response: 137643497
Conc: 95.20 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: -0.016 min
Response: 100143723
Conc: 95.14 ppb

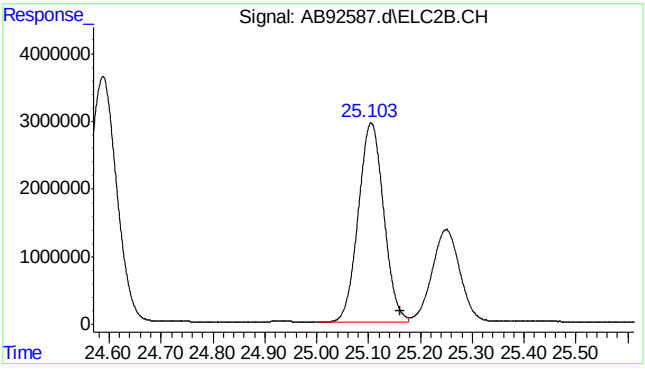



#33 naphthalene #2

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



SGS ACCUTEST MC46487




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response: 100268044
      Conc:  95.08 ppb m
```

7.5.4

7



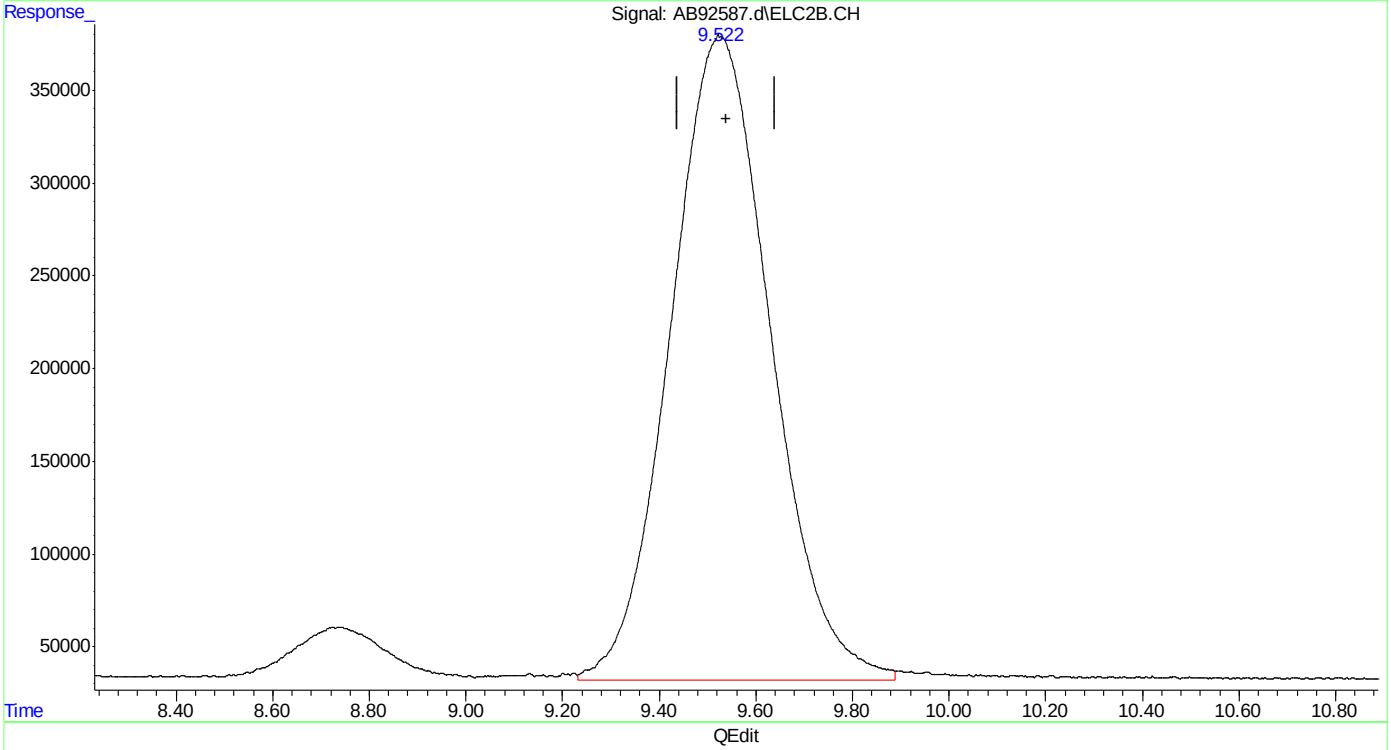
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.522min 96.975 ppb
response 50022247

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:09:01 2016



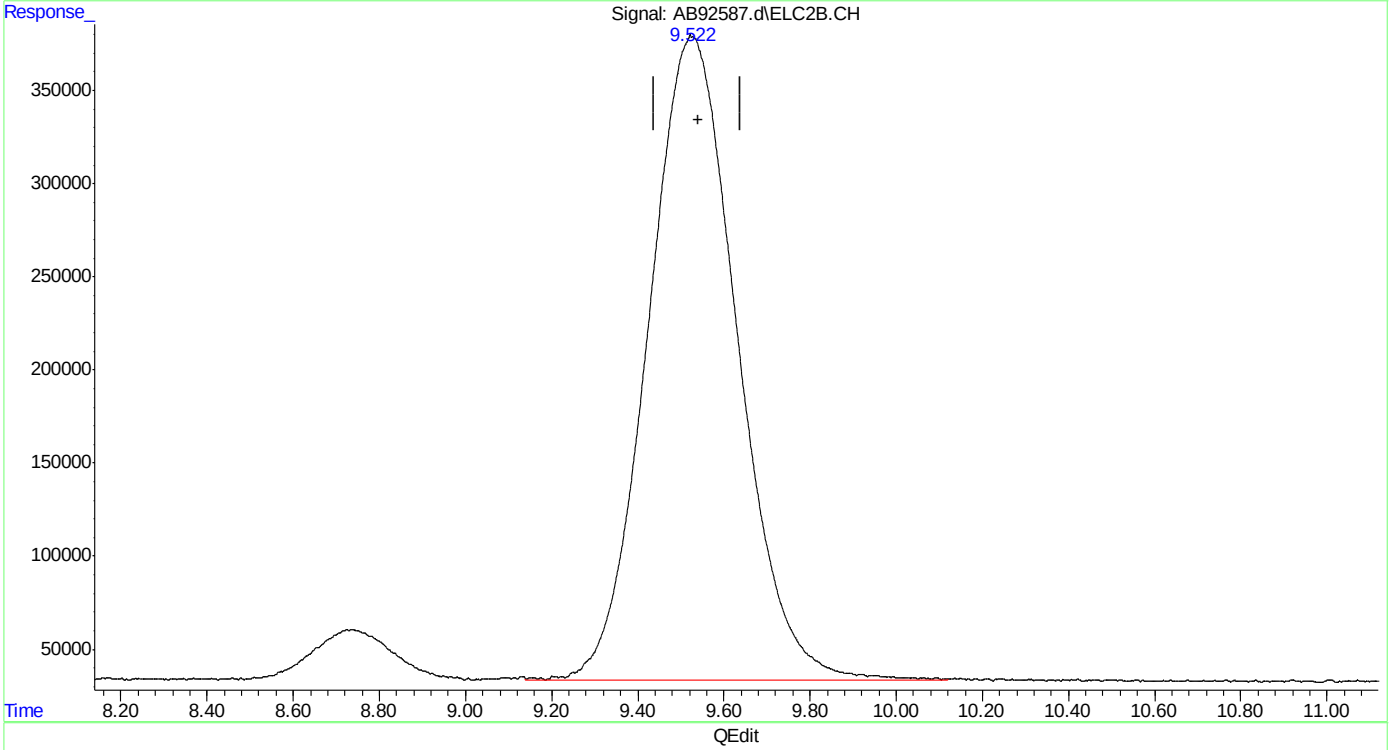
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.522min 96.580 ppb m
response 49818196

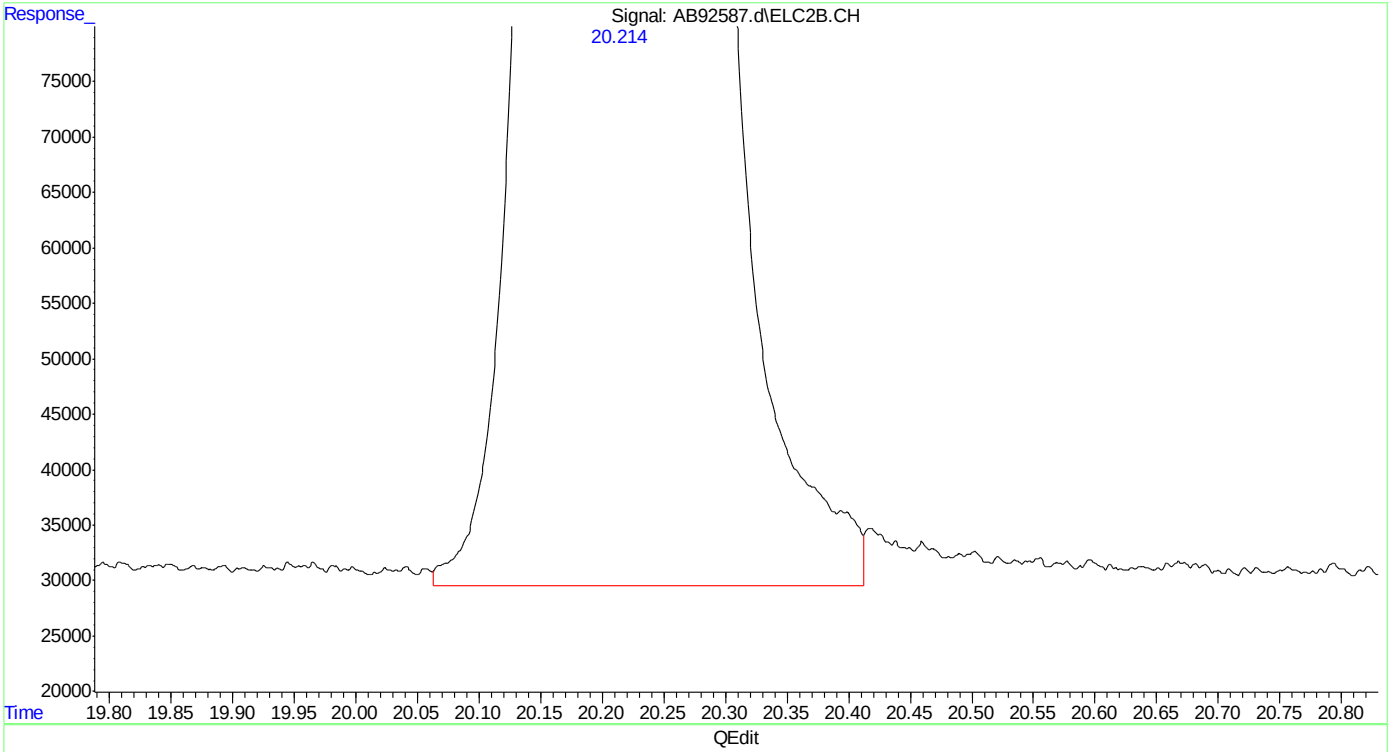
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.215min 94.913 ppb
response 45943479

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

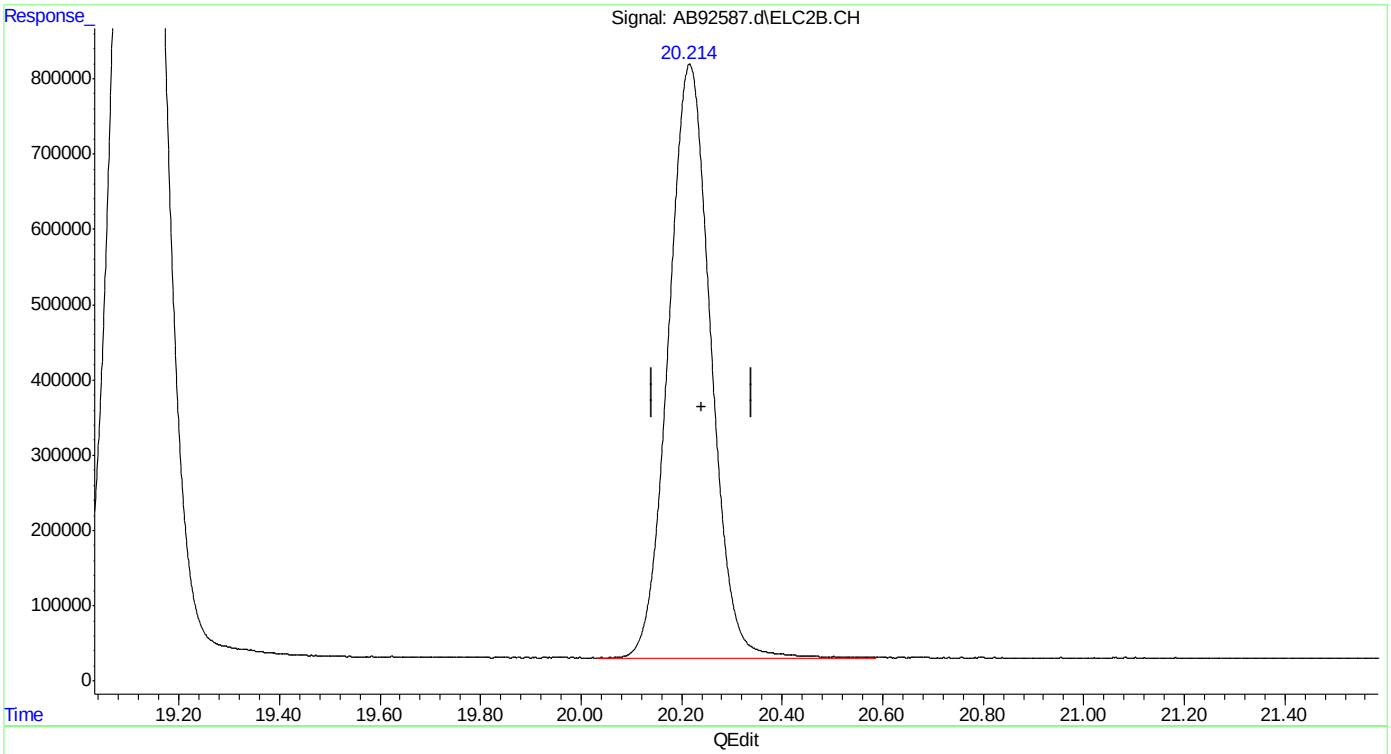

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.214min 95.565 ppb m
response 46259176

(+) = Expected Retention Time

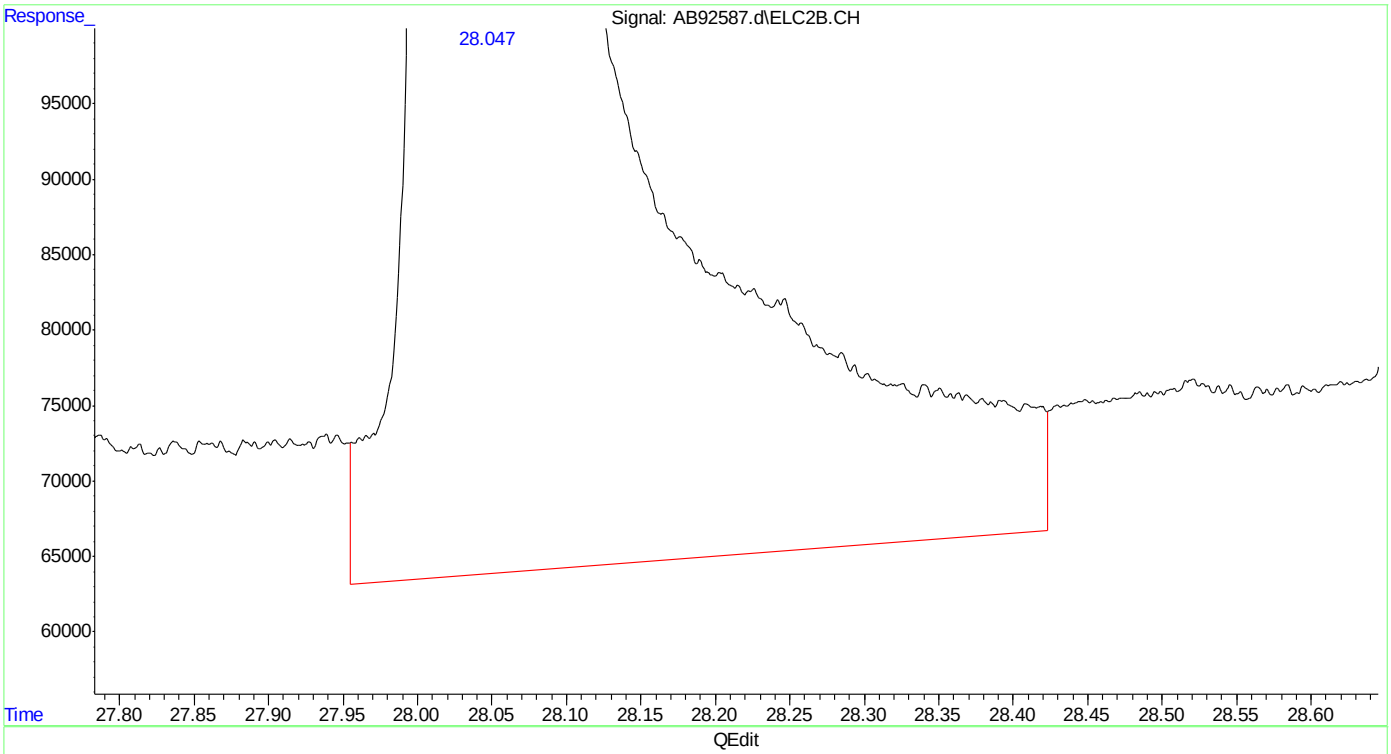

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2

28.048min 87.471 ppb

response 74428937

(+) = Expected Retention Time

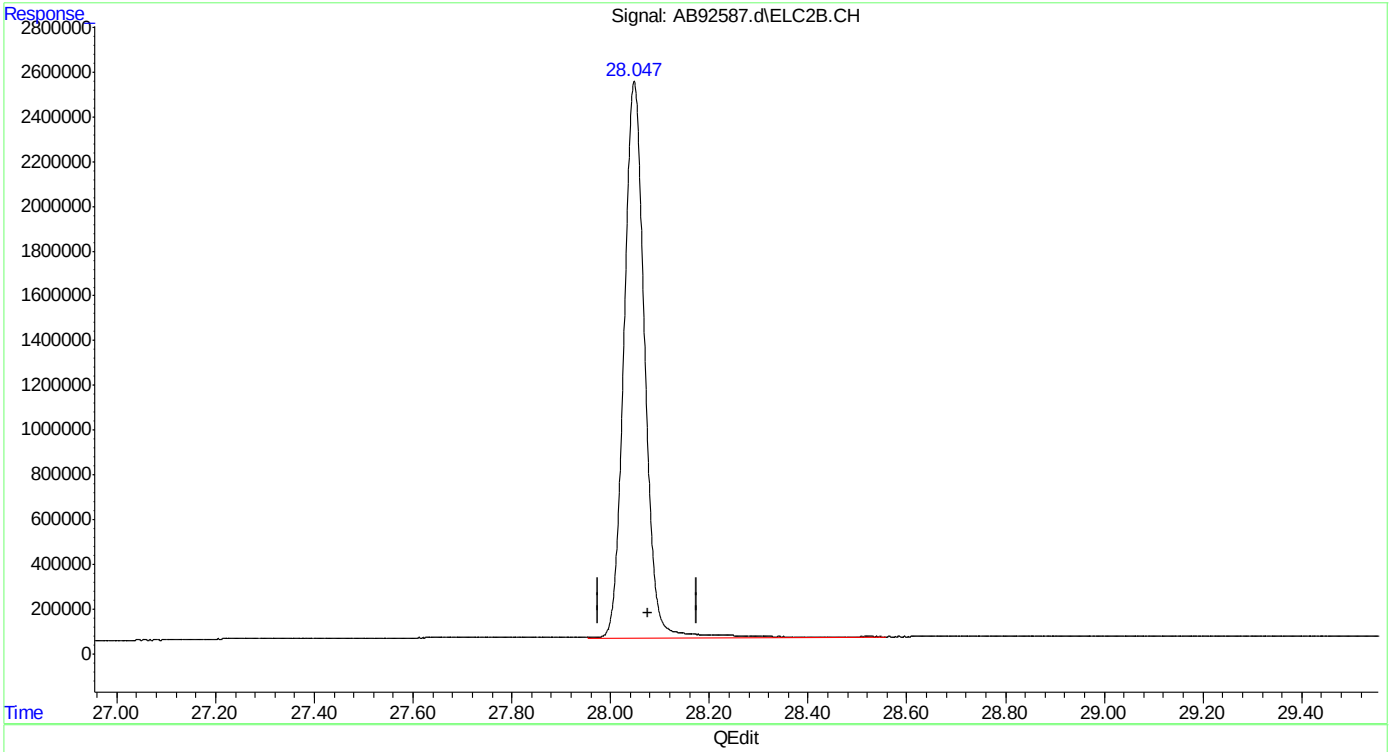
ab160112vphmaster.M Tue Jan 12 14:10:31 2016 Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:07:49 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 14:07:19 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.047min 85.047 ppb m
response 72366482

(+) = Expected Retention Time

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

Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 6) s fluorobenzene | 15.165 | 22113709 | 50.000 | ppb | |
| Spiked Amount 50.000 | | Recovery = 100.00% | | | |
| 9) s 2,3,4-trifluorotoluene | 20.217 | 20310808 | 50.000 | ppb | |
| Spiked Amount 50.000 | | Recovery = 100.00% | | | |
| 25) s fluorobenzene #2 | 15.162 | 44830746 | 50.000 | ppb | |
| Spiked Amount 50.000 | | Recovery = 100.00% | | | |
| 27) s 2,3,4-trifluorotoluen... | 20.215 | 23579401 | 50.000 | ppb | |
| Spiked Amount 50.000 | | Recovery = 100.00% | | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.370 | 17341856 | 50.022 | ppb | m |
| 2) h rt7/10 | 8.710 | 19931281 | 50.032 | ppb | m |
| 3) mtbe | 9.525 | 10910216 | 50.000 | ppb | |
| 4) h rt10/13 | 13.890 | 22107974 | 50.003 | ppb | m |
| 5) benzene | 14.662 | 27232844 | 50.000 | ppb | |
| 8) toluene | 19.121 | 30034928 | 50.000 | ppb | |
| 11) h rt20/25 | 21.900 | 28560611 | 50.004 | ppb | m |
| 13) ethylbenzene | 22.215 | 31877435 | 50.000 | ppb | |
| 14) m,p-xylene | 22.359 | 65853459 | 100.000 | ppb | |
| 15) o-xylene | 23.163 | 33195129 | 50.000 | ppb | |
| 16) h decane | 24.230 | 29380393 | 50.000 | ppb | |
| 17) t 1,3,5-trimethylbenzene | 24.590 | 35683239 | 50.000 | ppb | |
| 18) 1,2,4-trimethylbenzene | 25.108 | 33124851 | 50.000 | ppb | |
| 19) h butylcyclohexane | 25.263 | 30974569 | 50.024 | ppb | m |
| 20) naphthalene | 28.051 | 17061887 | 50.025 | ppb | m |
| 23) mtbe #2 | 9.531 | 25843788 | 50.076 | ppb | m |
| 24) benzene #2 | 14.662 | 70338009 | 50.000 | ppb | |
| 26) toluene #2 | 19.118 | 60419568 | 50.000 | ppb | |
| 28) ethylbenzene #2 | 22.213 | 49929639 | 50.000 | ppb | |
| 29) m,p-xylene #2 | 22.356 | 120749462 | 100.000 | ppb | |
| 30) o-xylene #2 | 23.161 | 50672944 | 50.000 | ppb | |
| 31) t 1,3,5-trimethylbenzen... | 24.588 | 73024638 | 50.000 | ppb | |
| 32) 1,2,4-trimethylbenzen... | 25.105 | 52288916 | 50.000 | ppb | |
| 33) naphthalene #2 | 28.049 | 37670302 | 50.002 | ppb | m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 52491156 | 49.995 | ppb | m |

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



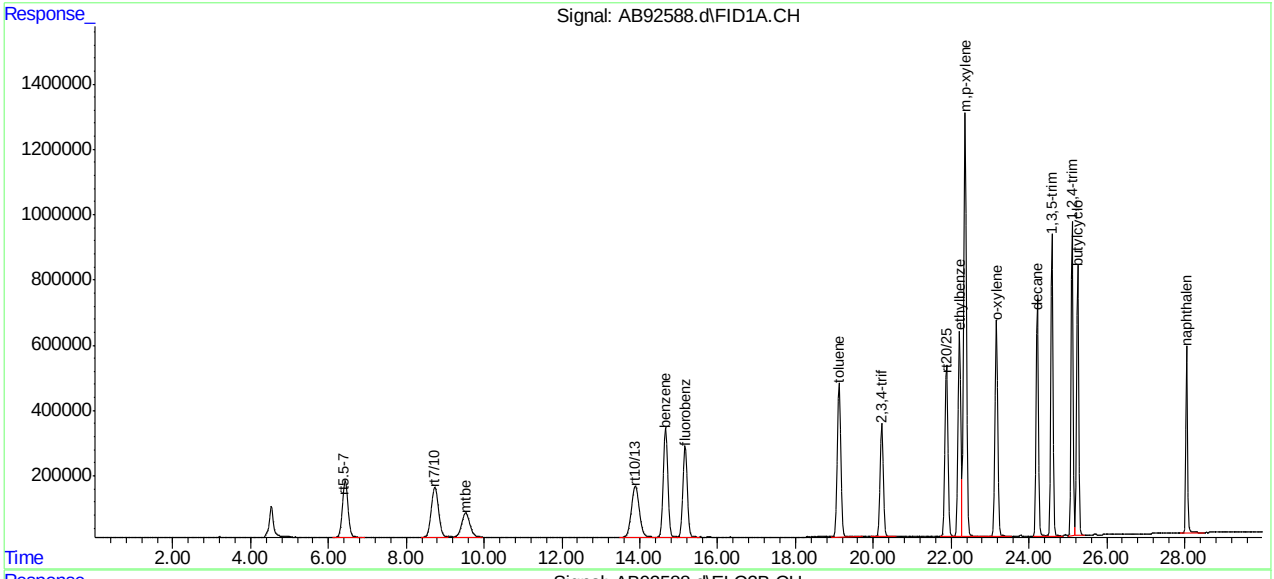
SGS ACCUTEST MC46487

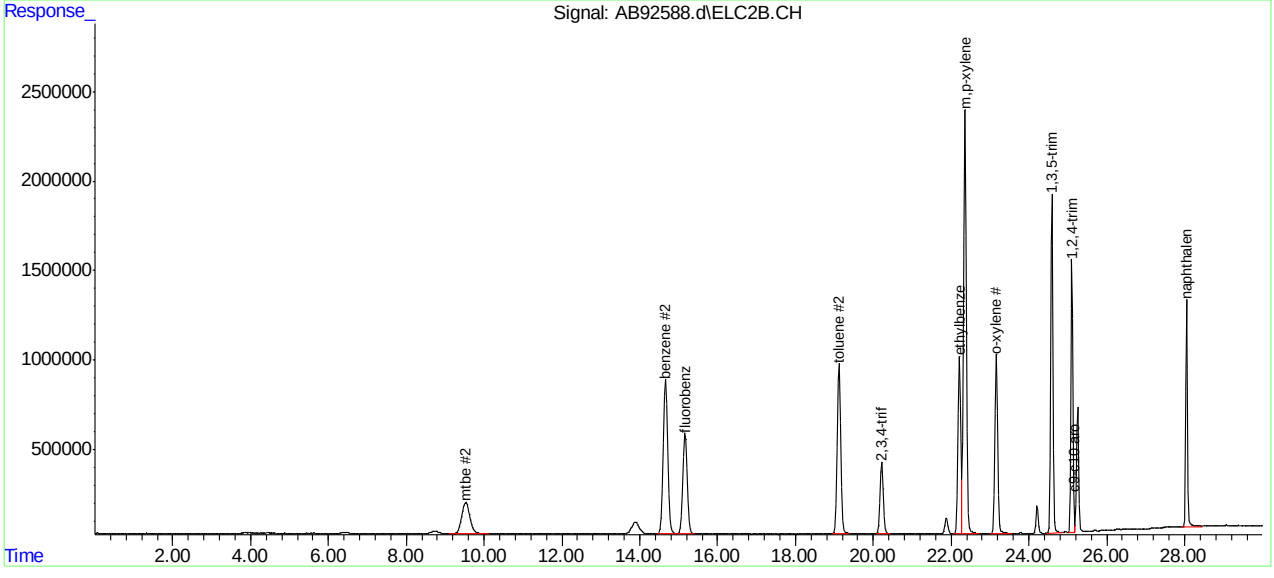
Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:32:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



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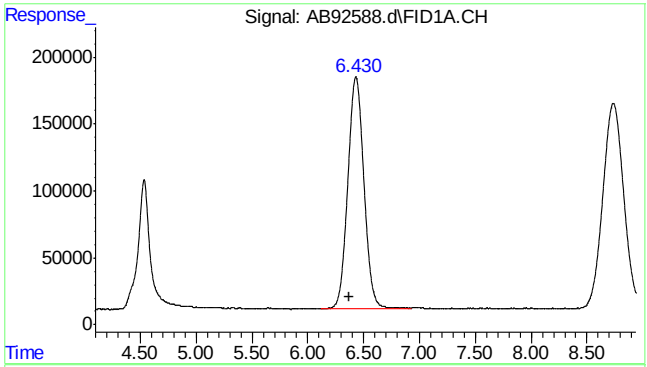
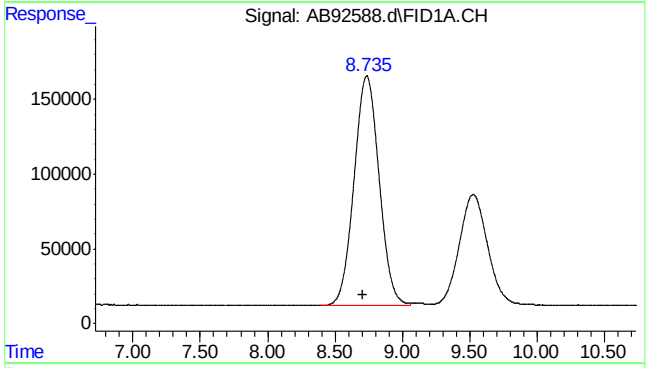


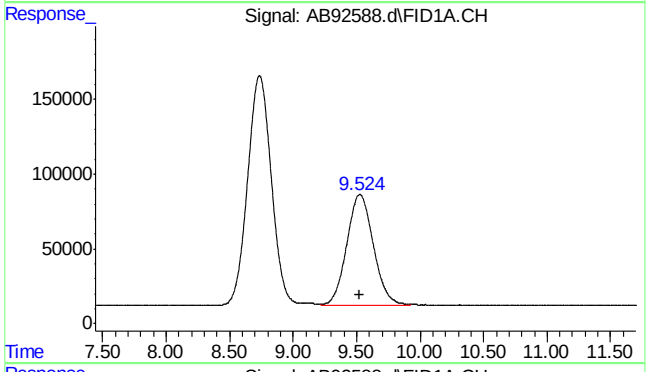

#1 rt5.5-7

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



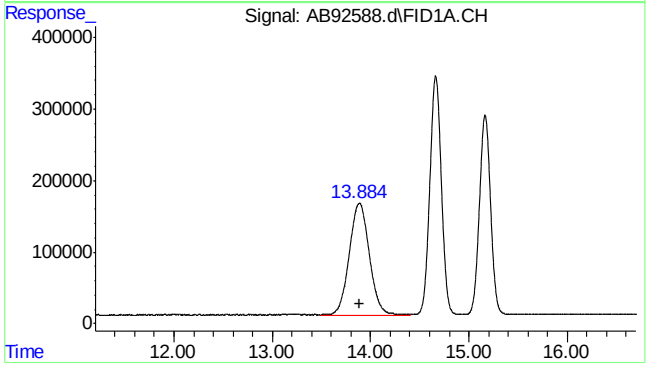

#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 19931281
Conc: 50.03 ppb m



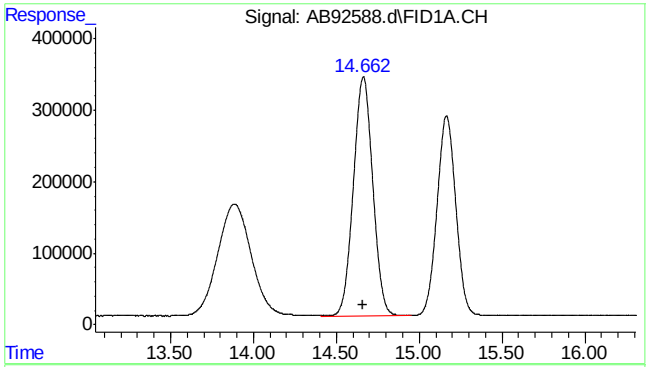

#3 mtbe

R.T.: 9.525 min
Delta R.T.: 0.000 min
Response: 10910216
Conc: 50.00 ppb



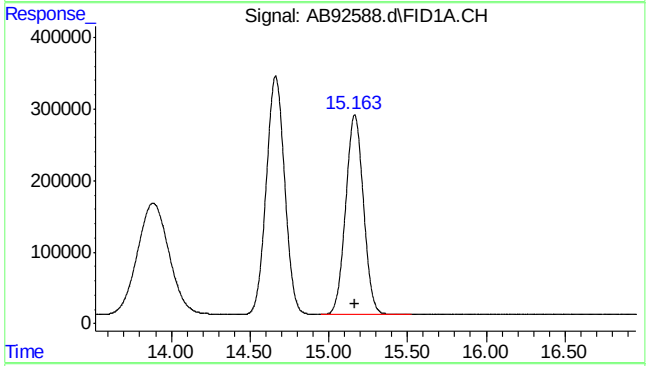

#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 22107974
Conc: 50.00 ppb m



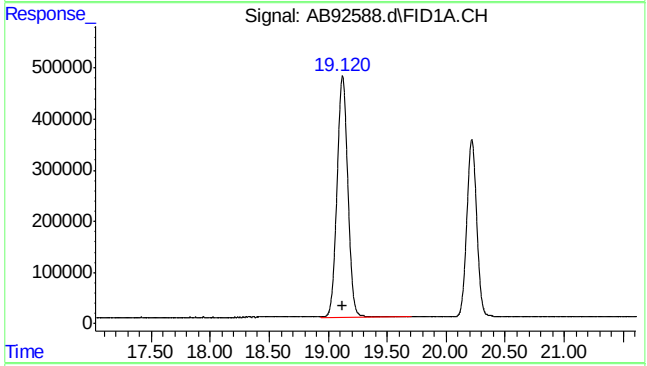

#5 benzene

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



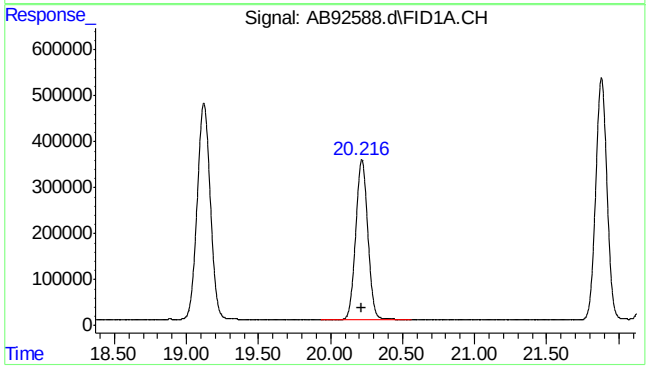

#6 fluorobenzene

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



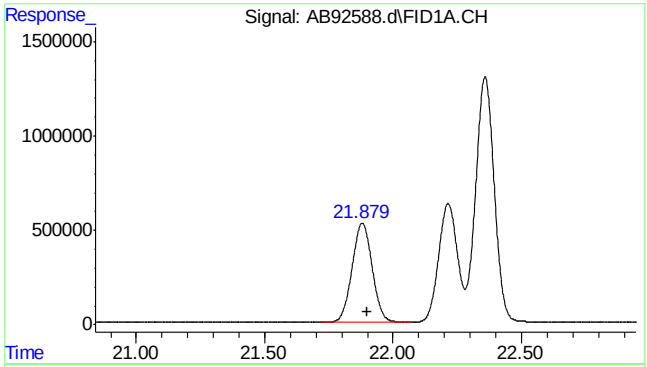

#8 toluene

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



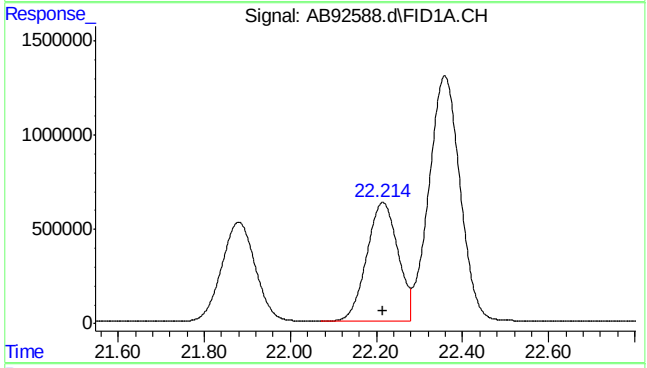

#9 2,3,4-trifluorotoluene

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



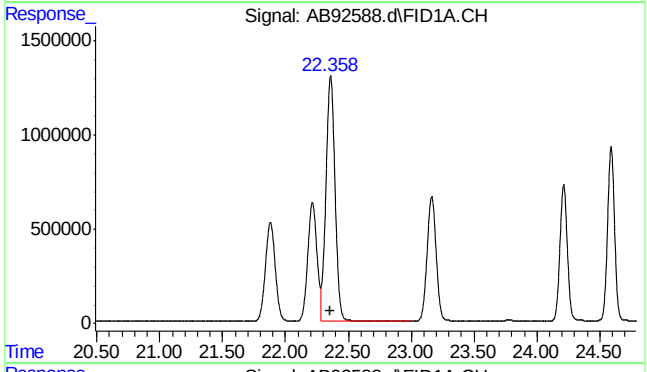

#11 rt20/25

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



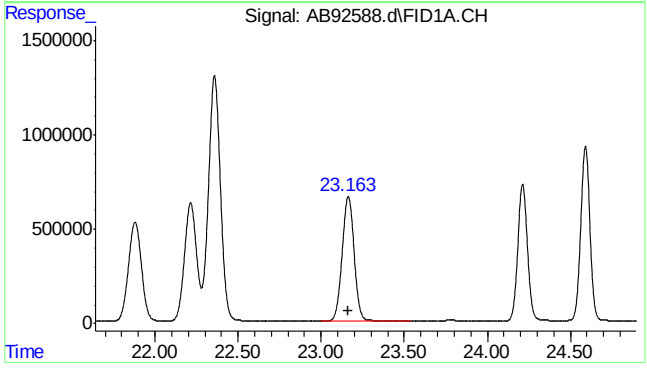

#13 ethylbenzene

```
      R.T.:   22.215 min
Delta R.T.:    0.000 min
  Response:  31877435
      Conc:  50.00 ppb
```




#14 m,p-xylene

```
      R.T.:   22.359 min
Delta R.T.:    0.000 min
  Response:  65853459
      Conc: 100.00 ppb
```




#15 o-xylene

```
      R.T.:   23.163 min
Delta R.T.:    0.000 min
  Response:  33195129
      Conc:  50.00 ppb
```



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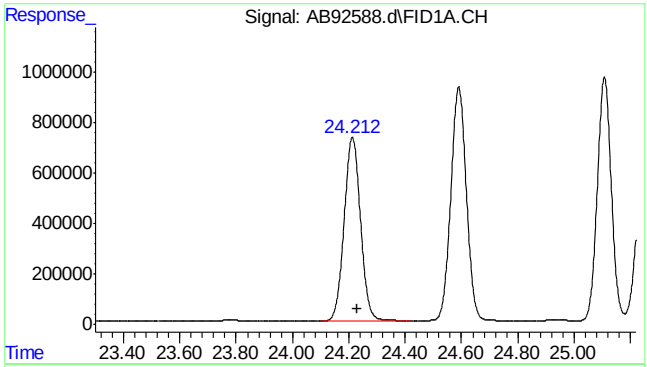
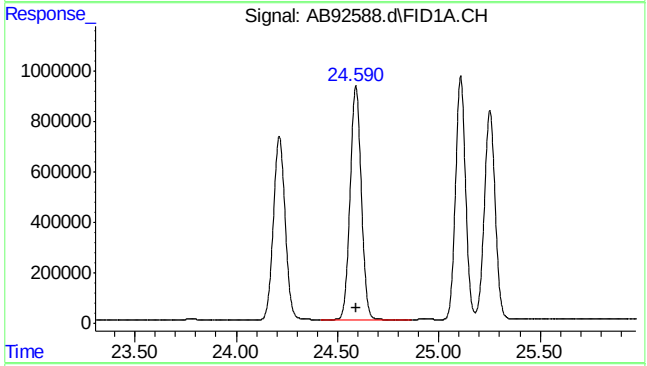


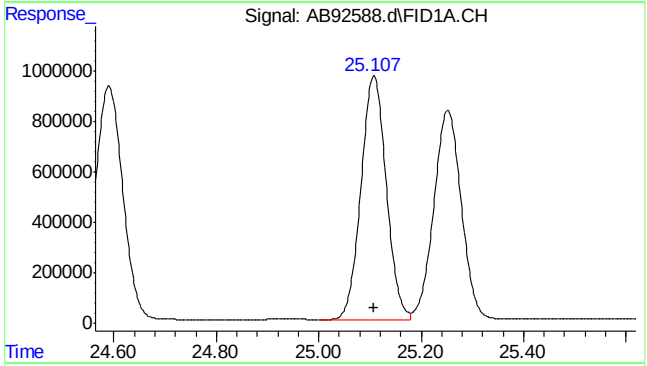

#16 decane

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



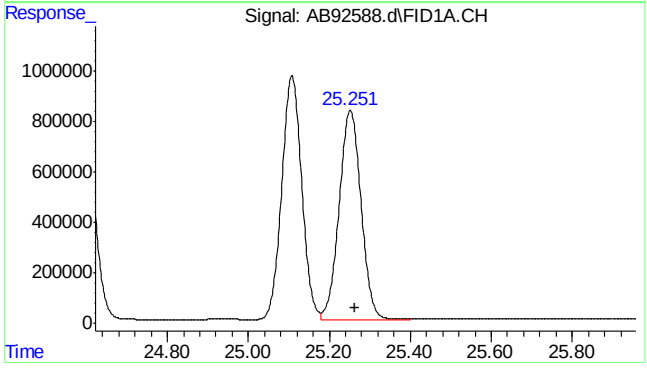

#17 1,3,5-trimethylbenzene

R.T.: 24.590 min
Delta R.T.: 0.000 min
Response: 35683239
Conc: 50.00 ppb



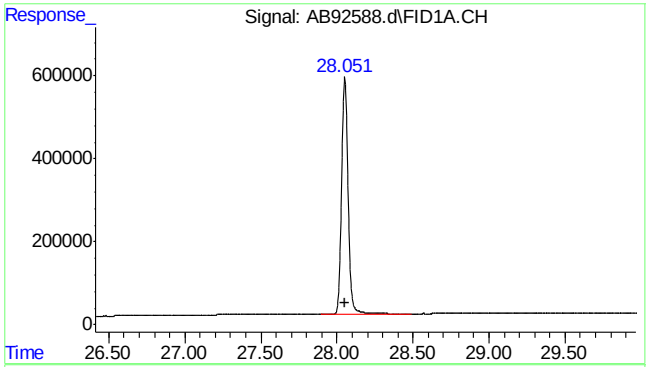

#18 1,2,4-trimethylbenzene

R.T.: 25.108 min
Delta R.T.: 0.000 min
Response: 33124851
Conc: 50.00 ppb



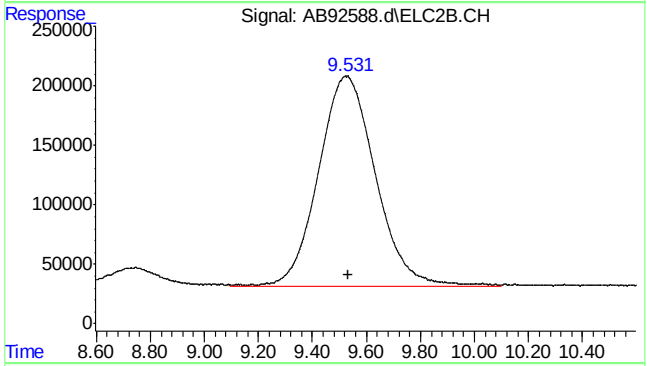

#19 butylcyclohexane

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



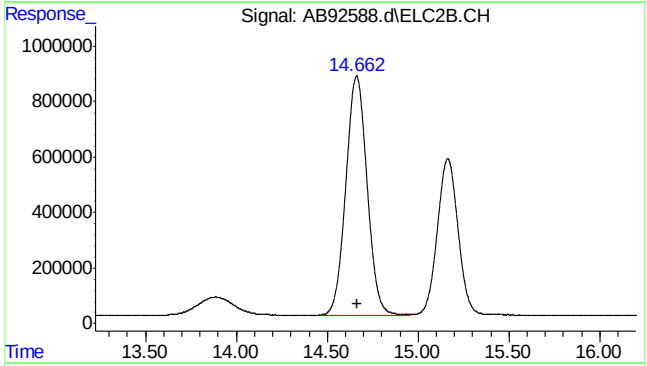

#20 naphthalene

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



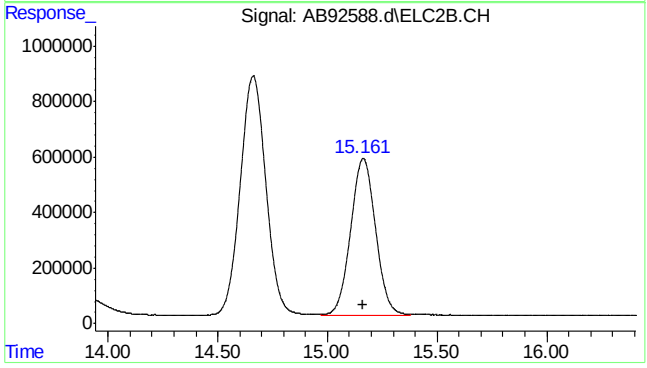

#23 mtbe #2

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




#24 benzene #2

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




#25 fluorobenzene #2

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





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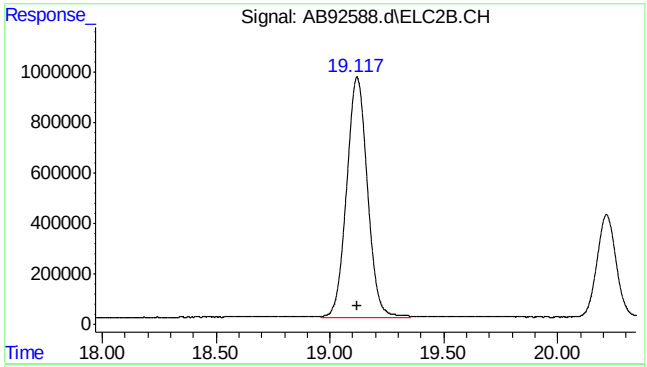
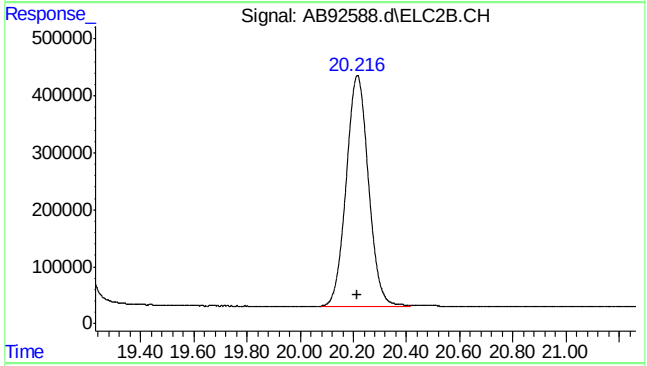


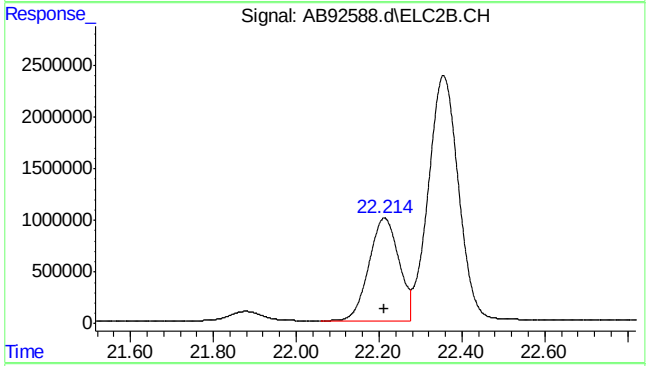

#26 toluene #2

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



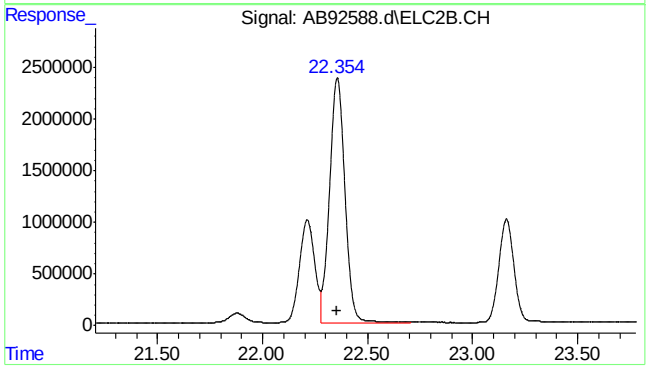

#27 2,3,4-trifluorotoluene #2

R.T.: 20.215 min
Delta R.T.: 0.000 min
Response: 23579401
Conc: 50.00 ppb



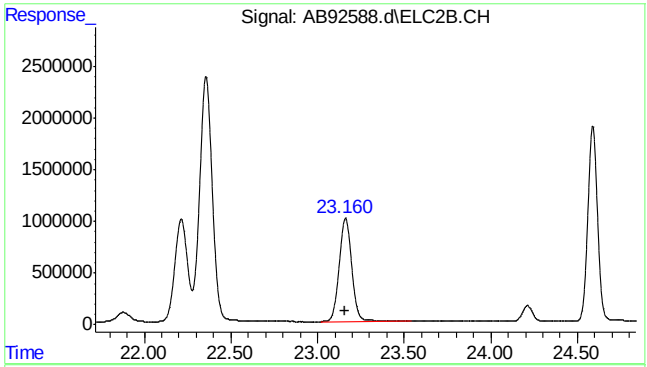

#28 ethylbenzene #2

R.T.: 22.213 min
Delta R.T.: 0.000 min
Response: 49929639
Conc: 50.00 ppb



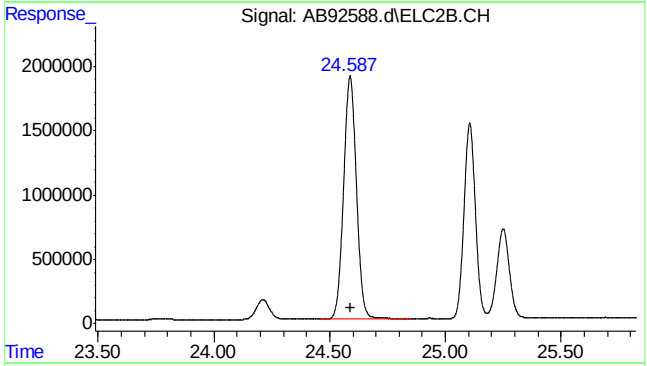

#29 m,p-xylene #2

R.T.: 22.356 min
Delta R.T.: 0.000 min
Response: 120749462
Conc: 100.00 ppb



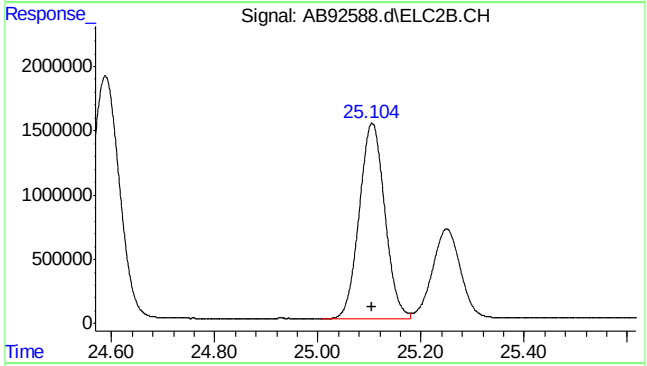

#30 o-xylene #2

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



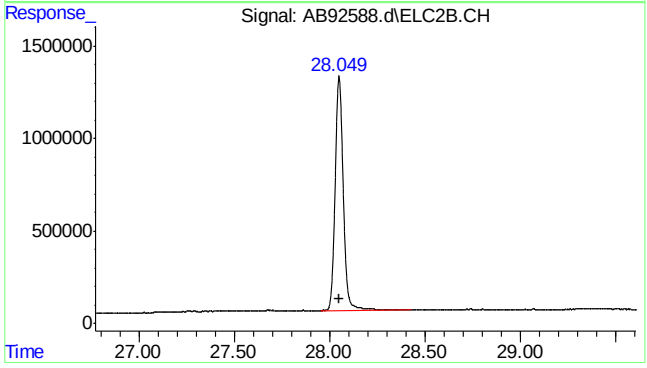

#31 1,3,5-trimethylbenzene #2

R.T.: 24.588 min
Delta R.T.: 0.000 min
Response: 73024638
Conc: 50.00 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.105 min
Delta R.T.: 0.000 min
Response: 52288916
Conc: 50.00 ppb




#33 naphthalene #2

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



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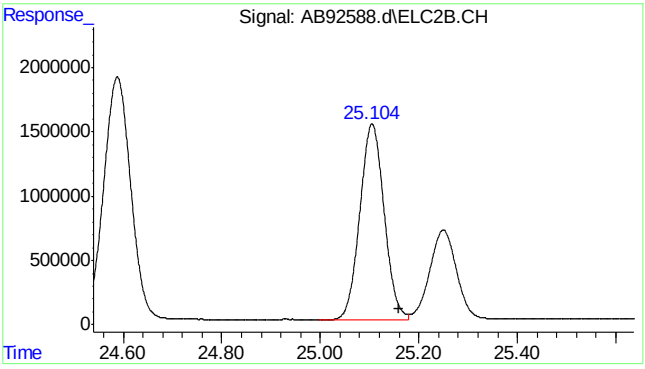


#34 c9-c10 arom as 1,2,4-tmb

R.T.: 25.160 min
Delta R.T.: 0.000 min
Response: 52491156
Conc: 49.99 ppb m




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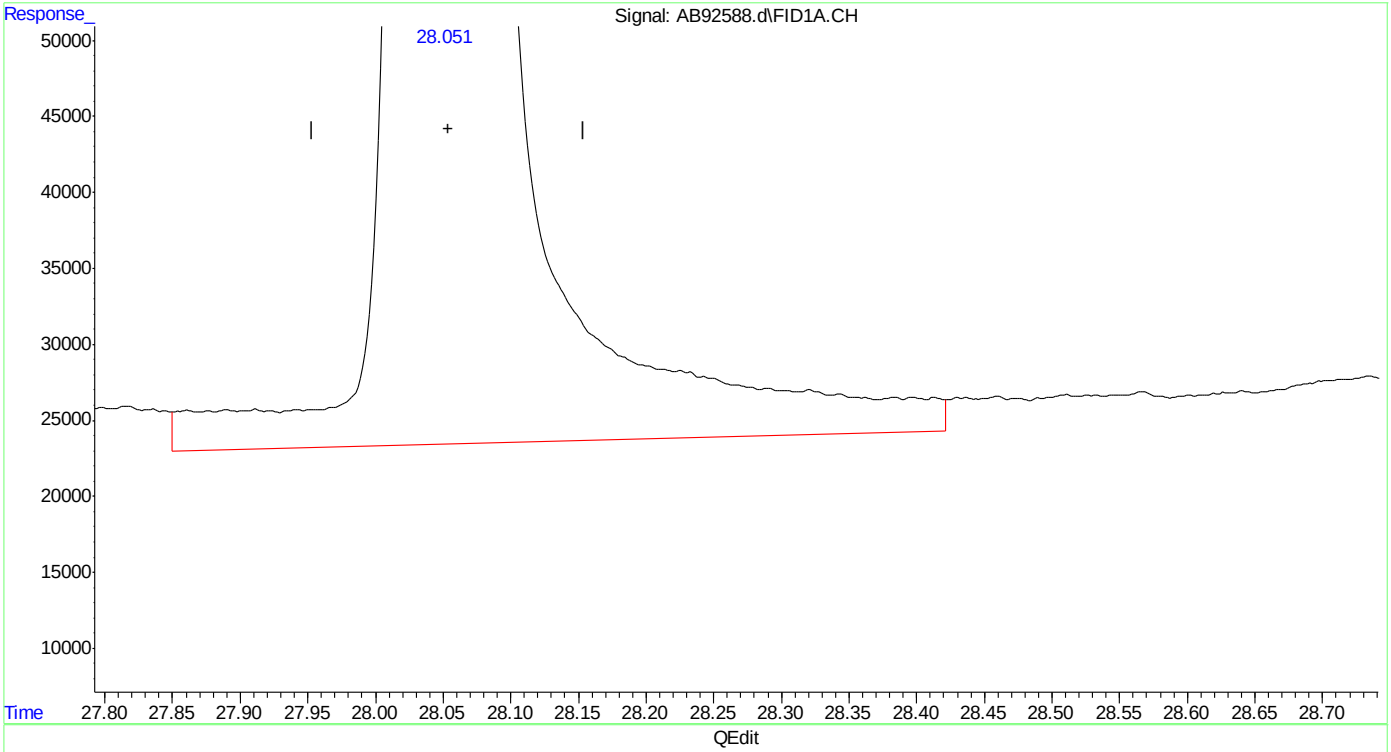
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.052min 52.879 ppb
response 17760539

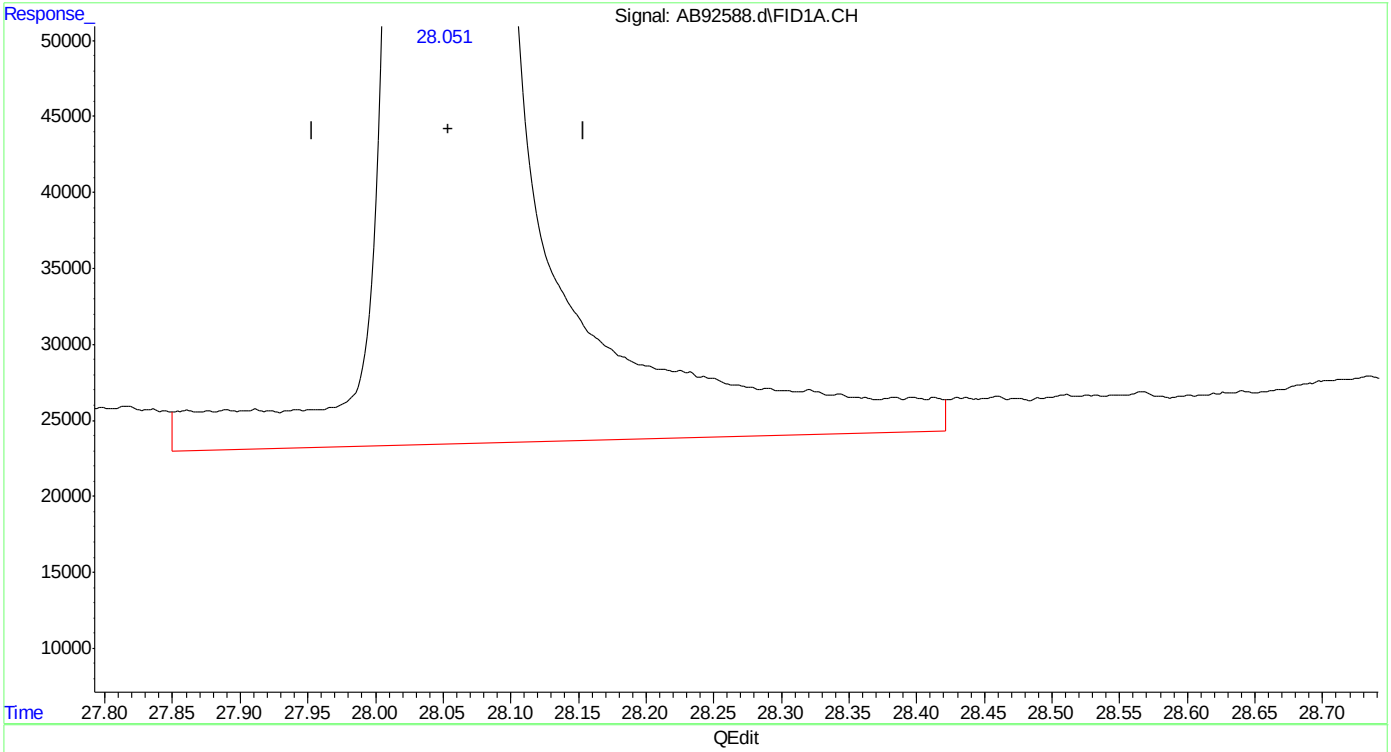
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 11:27:23 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.052min 52.879 ppb
response 17760539

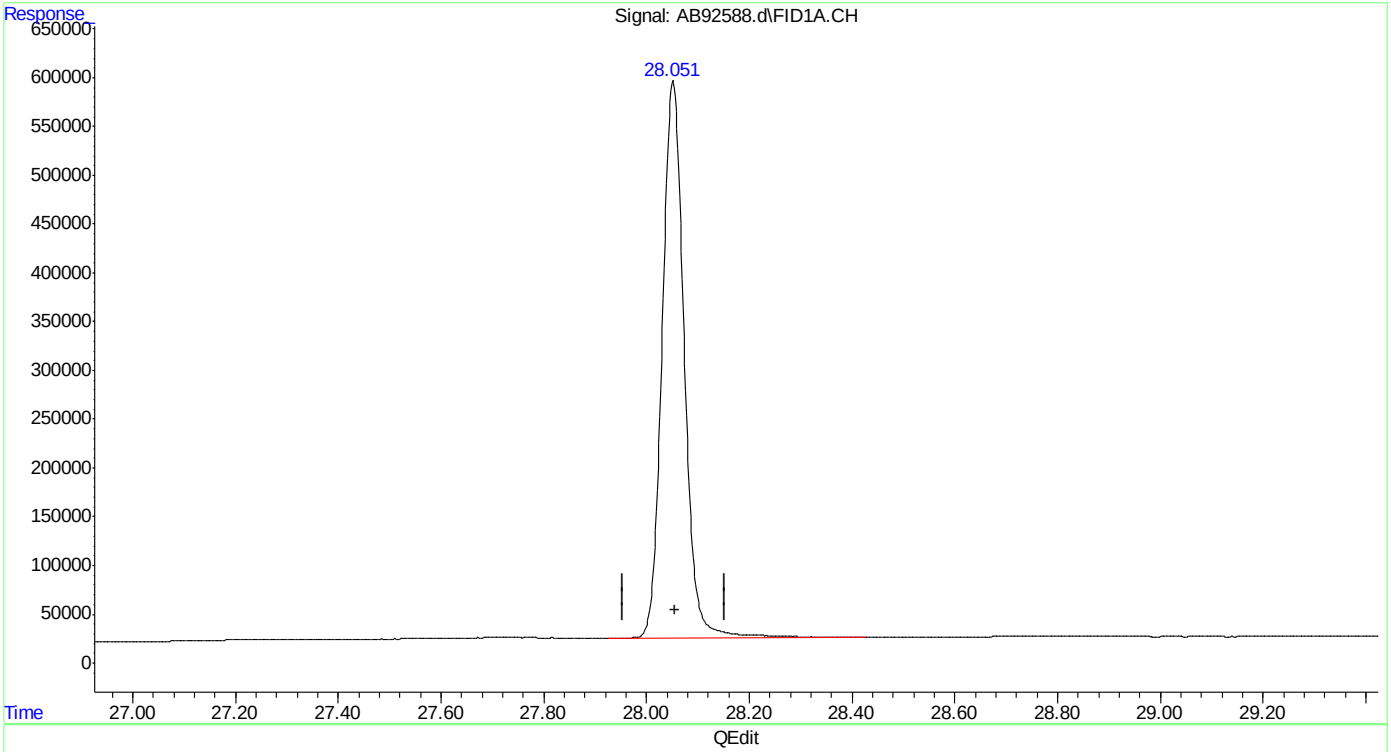
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.051min 50.773 ppb m
response 17053298

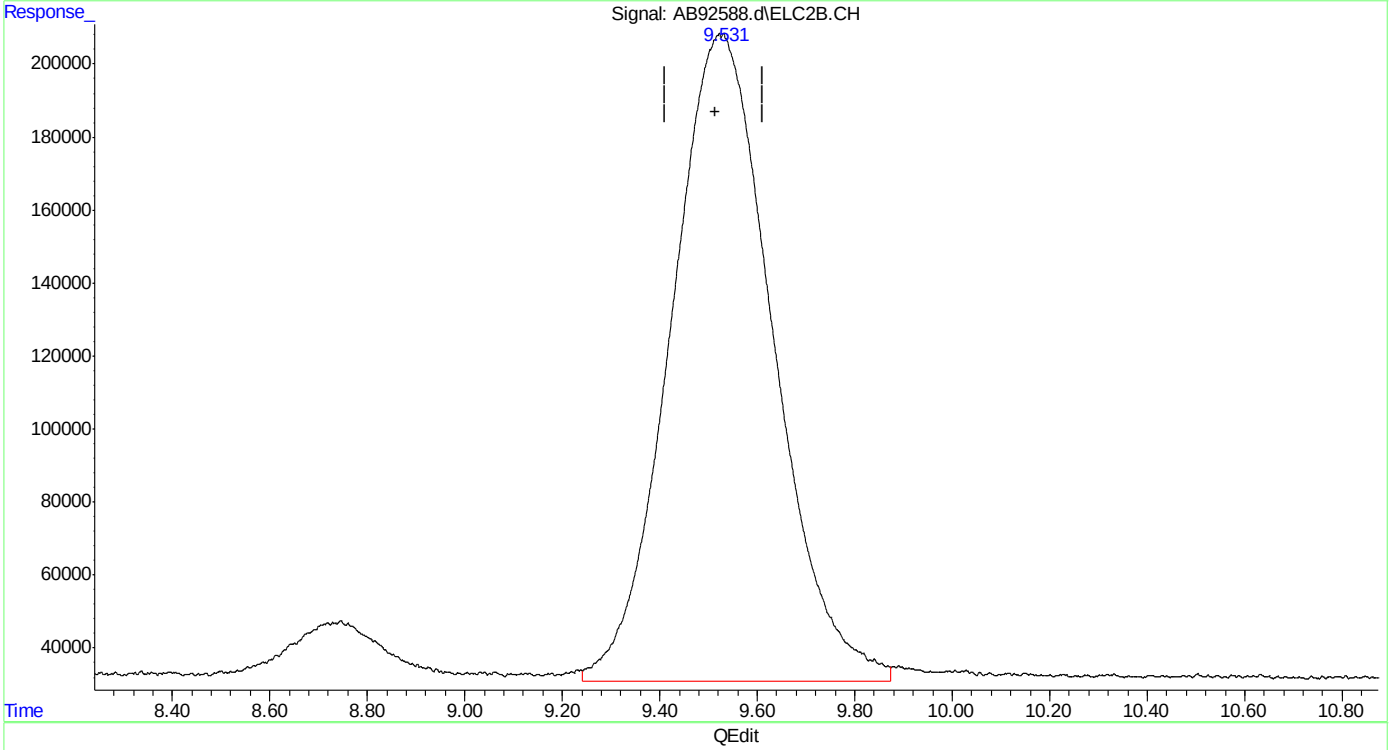
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.522min 50.415 ppb
response 25829396

(+) = Expected Retention Time



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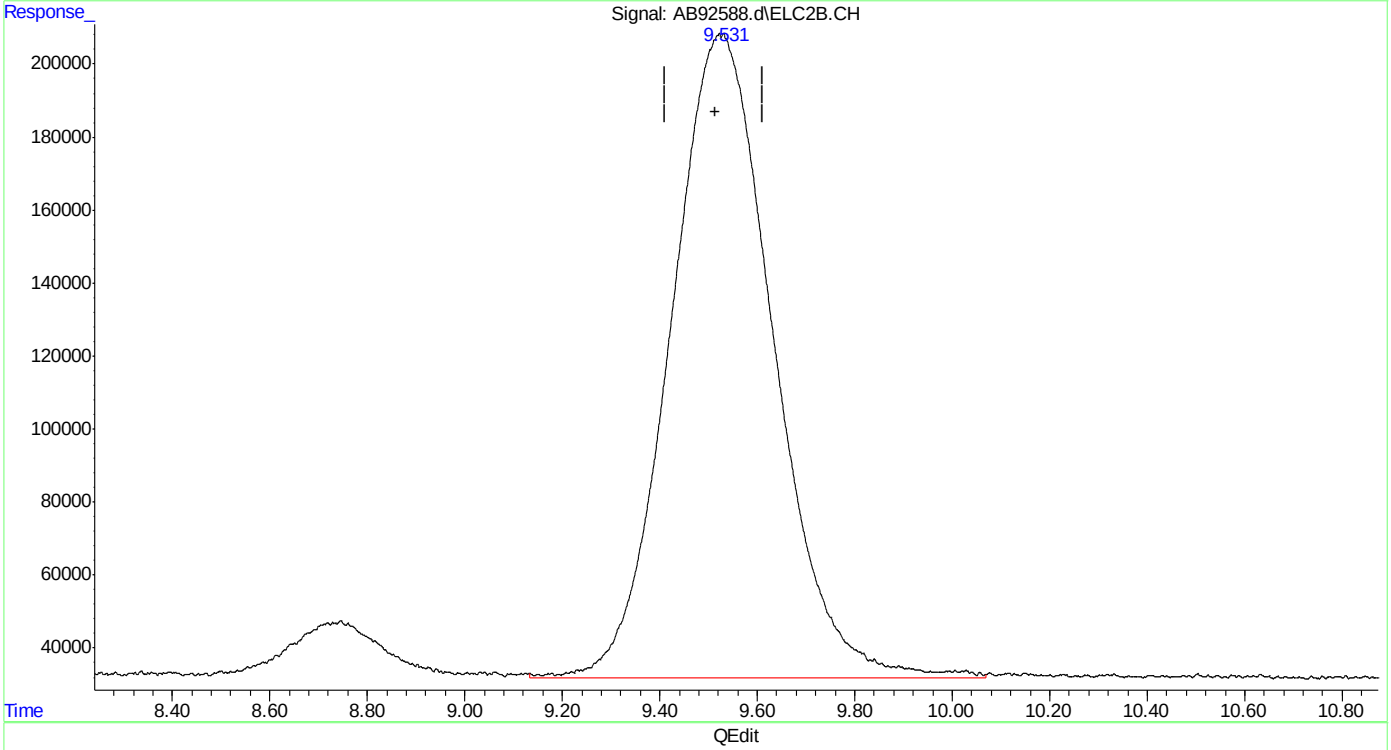
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.531min 50.367 ppb m
response 25804554

(+) = Expected Retention Time



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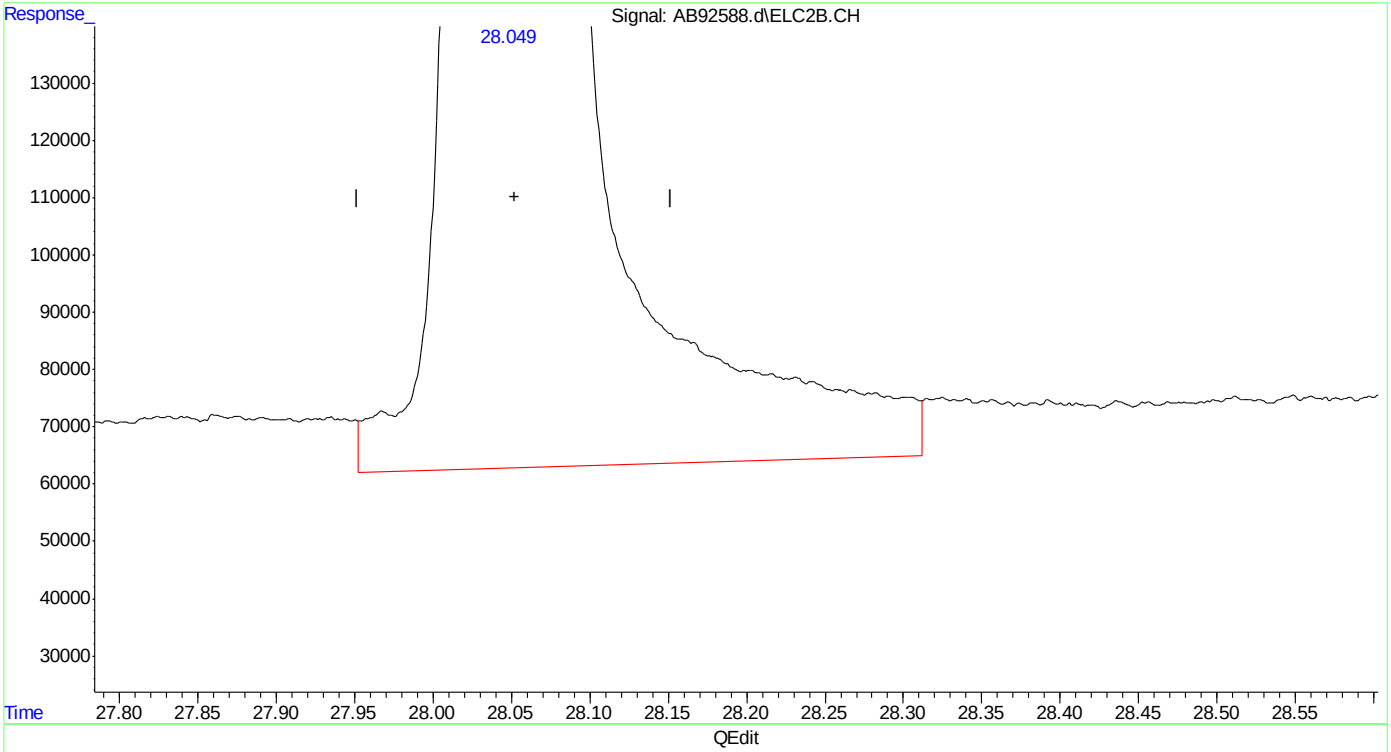
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.049min 54.400 ppb
response 39376906

(+) = Expected Retention Time



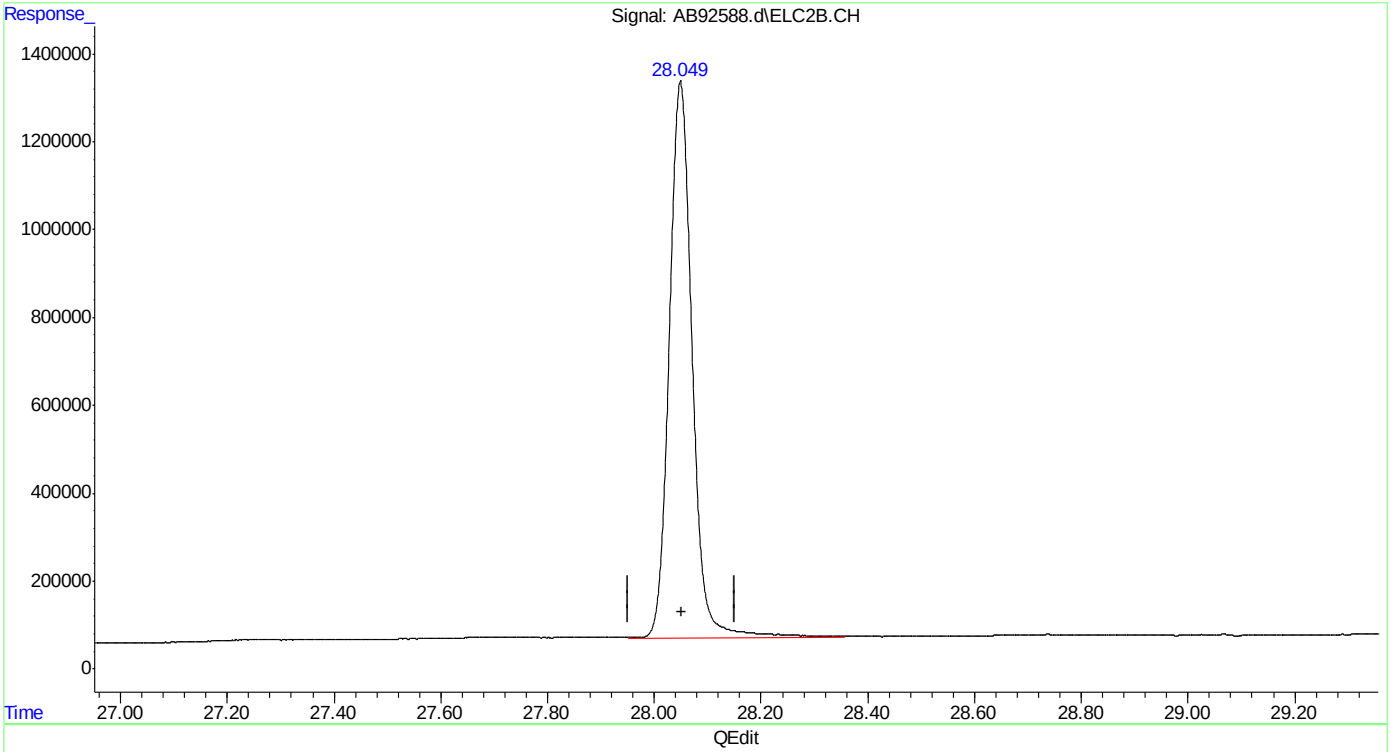
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:26:07 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Mon Jan 11 11:06:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.049min 52.040 ppb m
response 37668697

(+) = Expected Retention Time



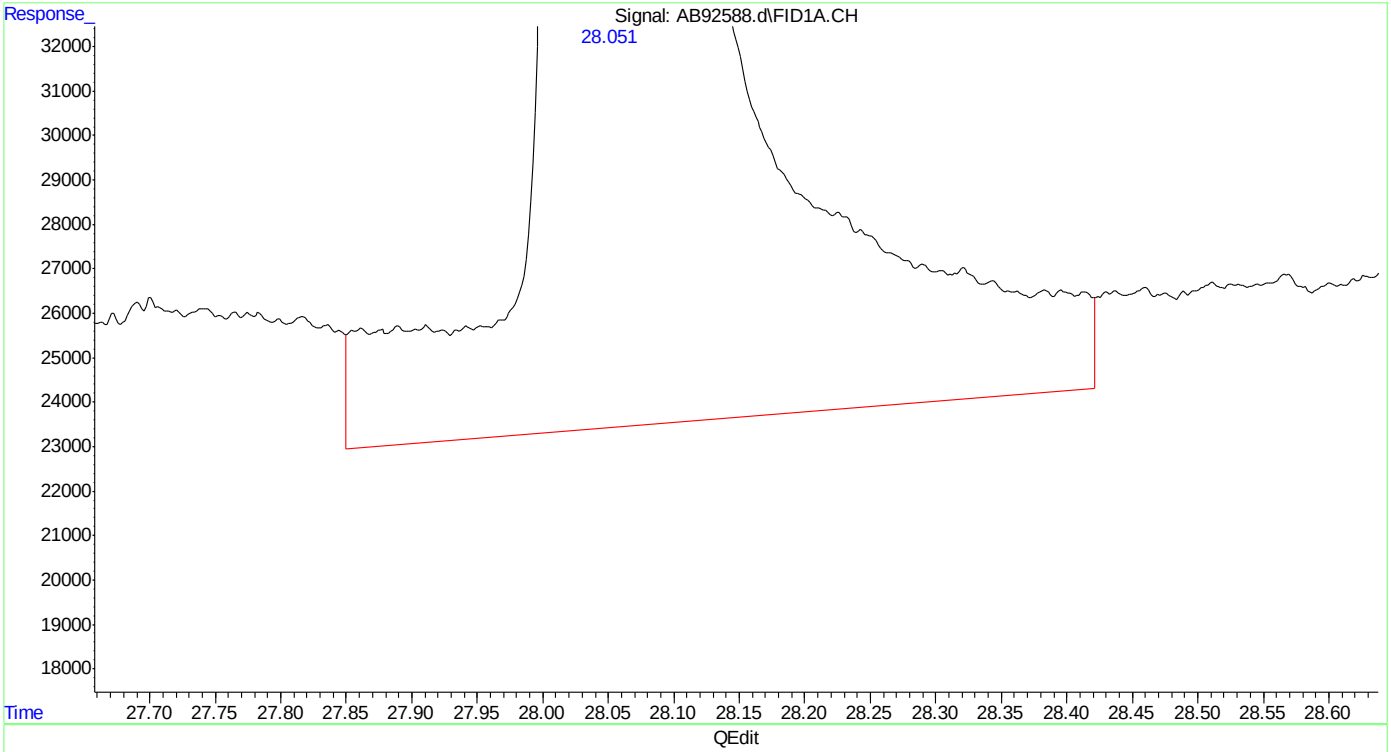
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.052min 52.074 ppb
response 17760539

(+) = Expected Retention Time



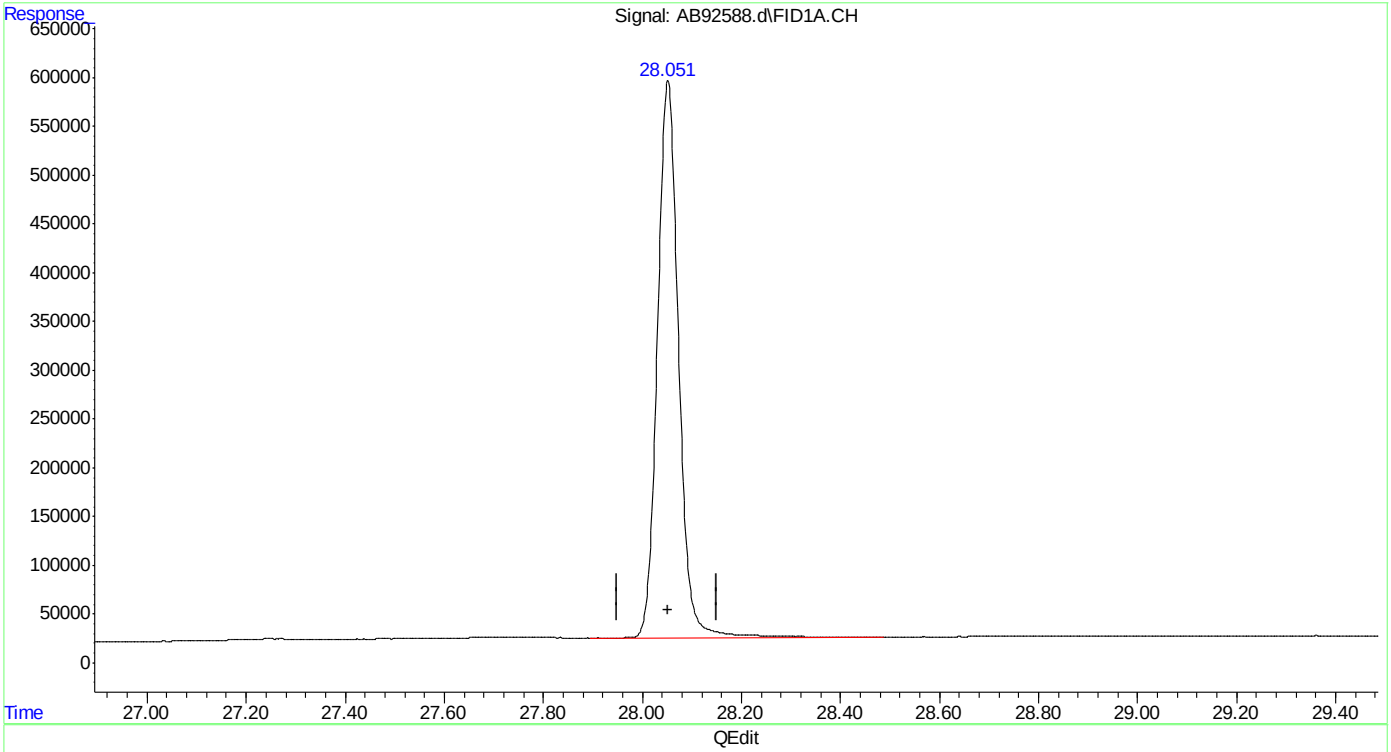
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.051min 50.025 ppb m
response 17061887

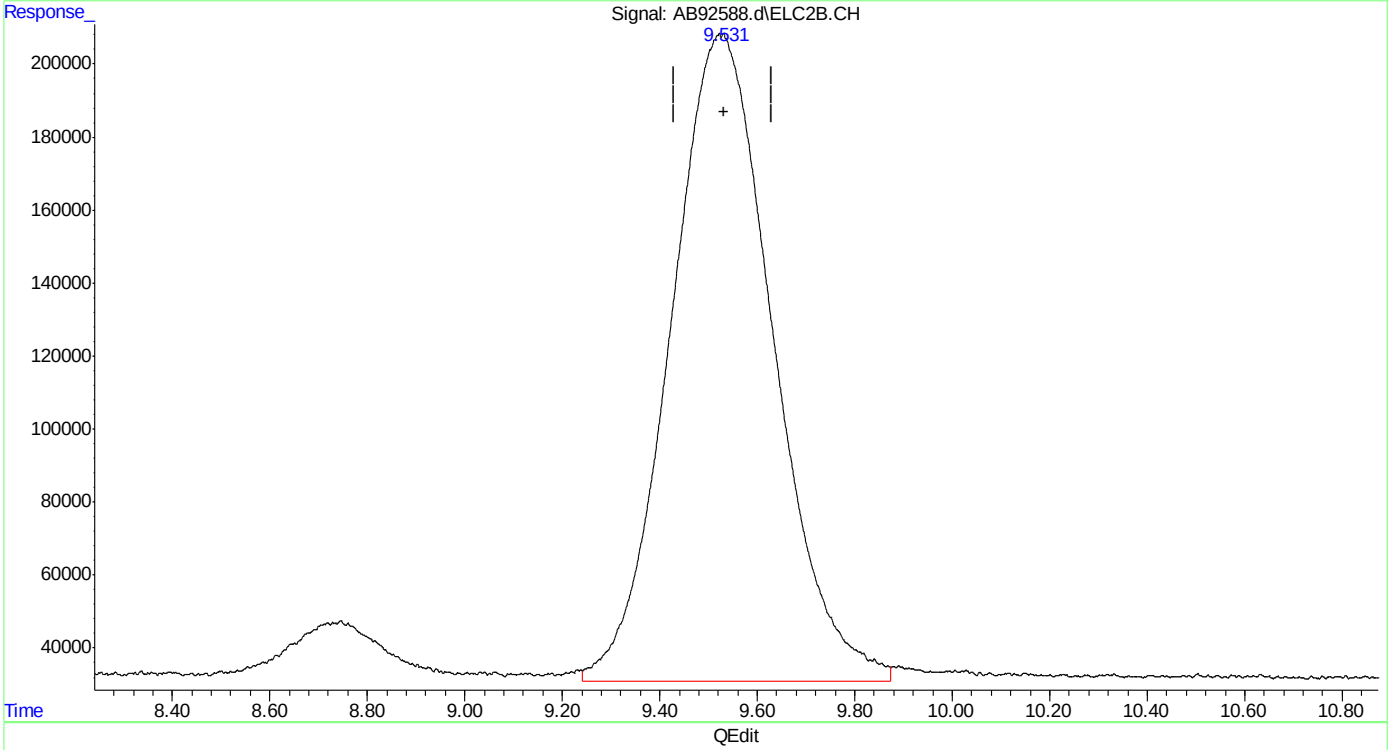
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.522min 50.048 ppb
response 25829396

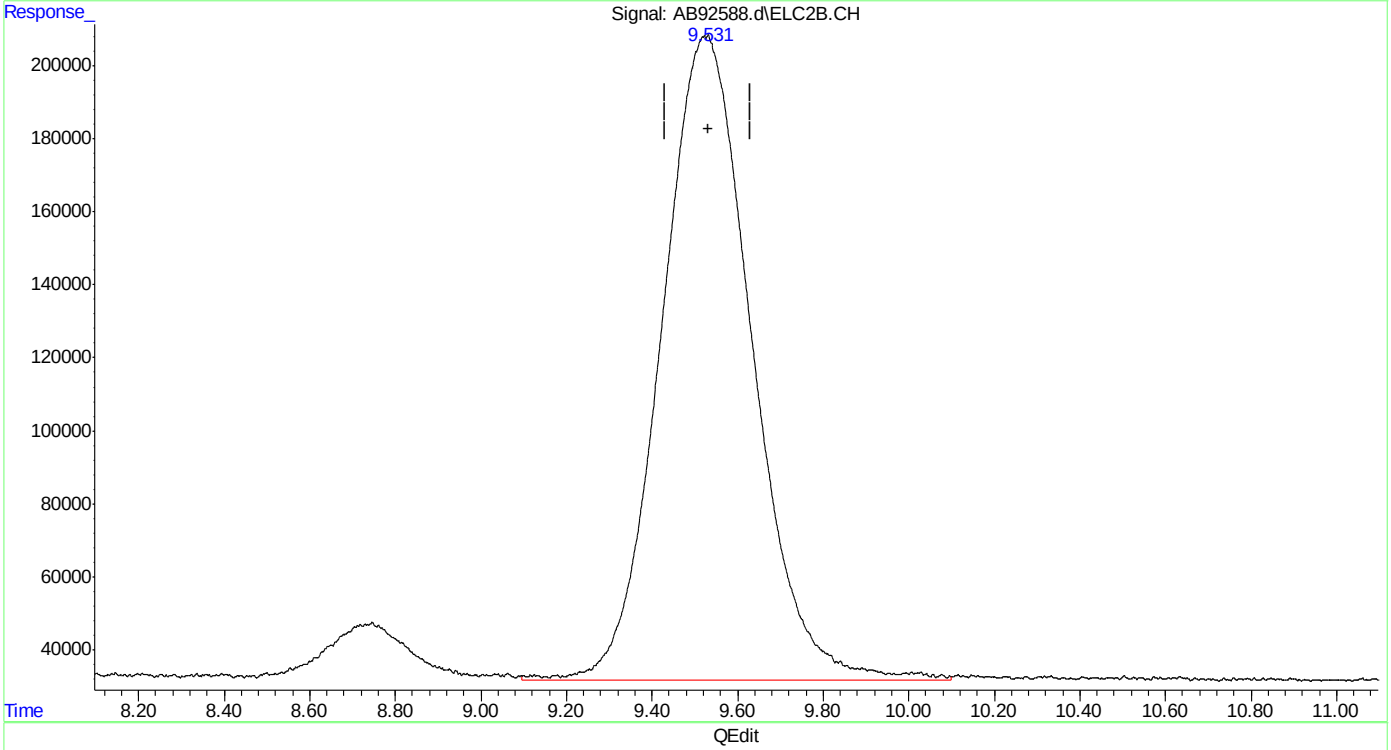
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.531min 50.076 ppb m
response 25843788

(+) = Expected Retention Time



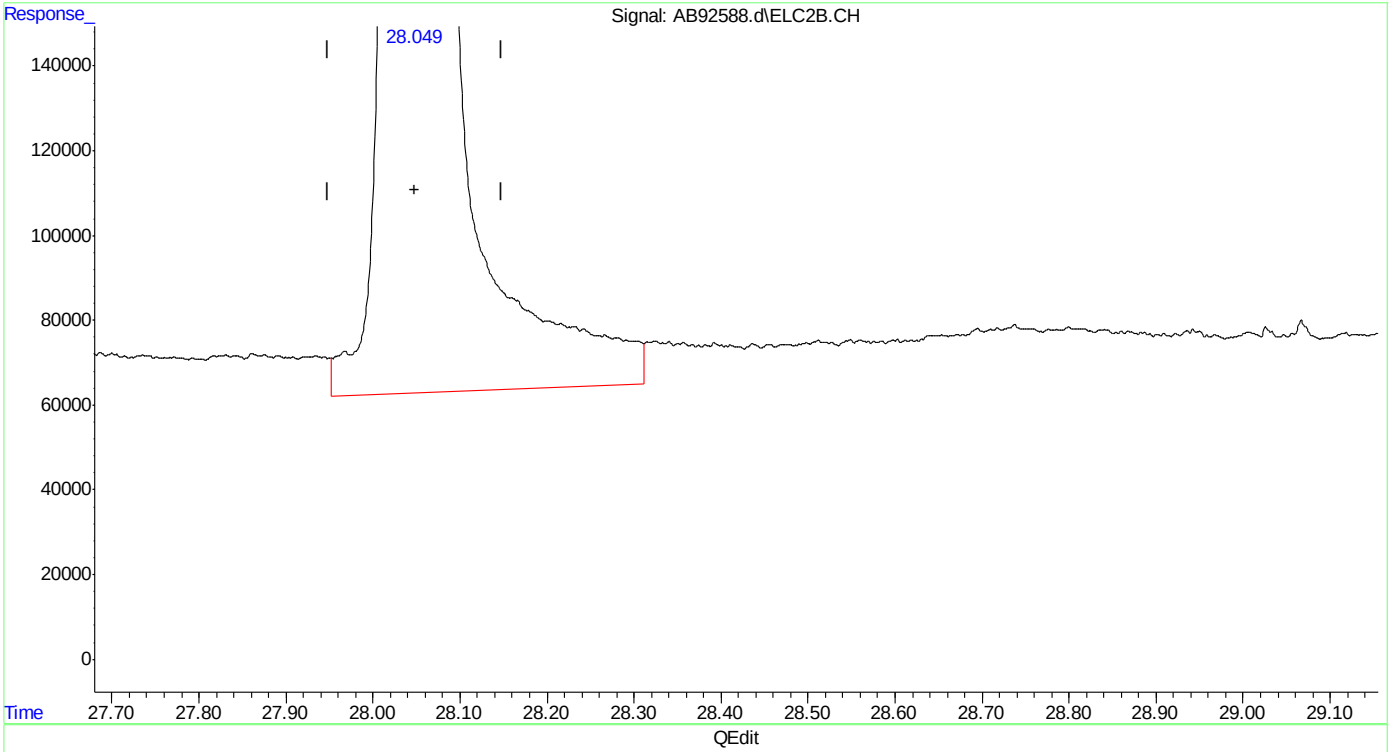
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2

28.049min 52.267 ppb

response 39376906

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 11:32:04 2016



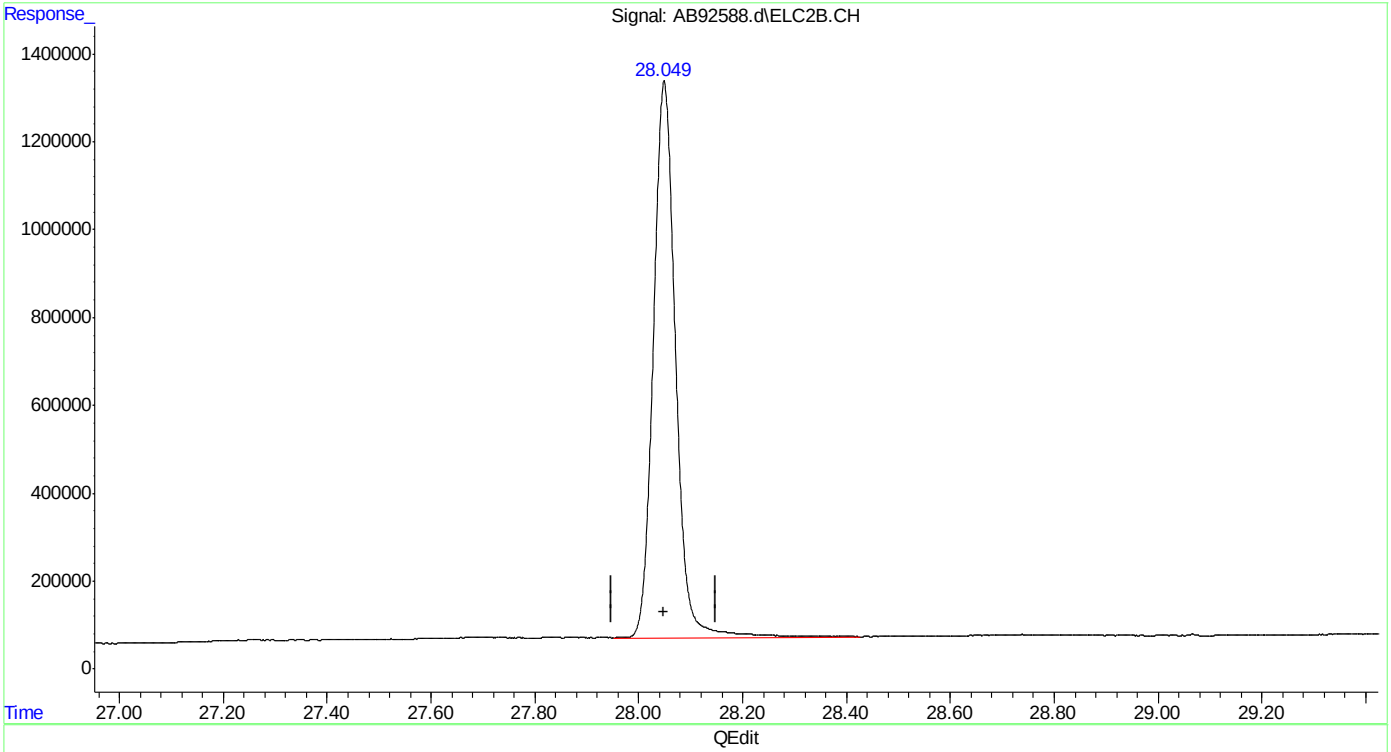
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 11:28:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:28:34 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.049min 50.002 ppb m
response 37670302

(+) = Expected Retention Time

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

Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units | |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 6) s fluorobenzene | 15.168 | 4362458 | 9.864 ppb | m |
| Spiked Amount 50.000 | | Recovery = | 19.73% | |
| 9) s 2,3,4-trifluorotoluene | 20.220 | 4158758 | 10.238 ppb | m |
| Spiked Amount 50.000 | | Recovery = | 20.48% | |
| 25) s fluorobenzene #2 | 15.165 | 8690415 | 9.692 ppb | m |
| Spiked Amount 50.000 | | Recovery = | 19.38% | |
| 27) s 2,3,4-trifluorotoluen... | 20.218 | 4721681 | 10.012 ppb | |
| Spiked Amount 50.000 | | Recovery = | 20.02% | |
| Target Compounds | | | | |
| 1) h rt5.5-7 | 6.370 | 3766236 | 10.859 ppb | m |
| 2) h rt7/10 | 8.710 | 4308812 | 10.809 ppb | m |
| 3) mtbe | 9.531 | 2209462 | 10.126 ppb | m |
| 4) h rt10/13 | 13.890 | 4807629 | 10.873 ppb | m |
| 5) benzene | 14.665 | 5646132 | 10.366 ppb | |
| 8) toluene | 19.124 | 6173366 | 10.277 ppb | m |
| 11) h rt20/25 | 21.900 | 6317132 | 11.059 ppb | m |
| 13) ethylbenzene | 22.217 | 6624507 | 10.391 ppb | |
| 14) m,p-xylene | 22.361 | 13841478 | 21.019 ppb | |
| 15) o-xylene | 23.165 | 6899240 | 10.392 ppb | m |
| 16) h decane | 24.230 | 6389567 | 10.874 ppb | m |
| 17) t 1,3,5-trimethylbenzene | 24.592 | 7137343 | 10.001 ppb | m |
| 18) 1,2,4-trimethylbenzene | 25.110 | 6940844 | 10.477 ppb | |
| 19) h butylcyclohexane | 25.263 | 6902750 | 11.143 ppb | m |
| 20) naphthalene | 28.056 | 3925512 | 11.504 ppb | m |
| 23) mtbe #2 | 9.536 | 5190787 | 10.043 ppb | m |
| 24) benzene #2 | 14.666 | 13970184 | 9.931 ppb | m |
| 26) toluene #2 | 19.121 | 12172198 | 10.073 ppb | m |
| 28) ethylbenzene #2 | 22.215 | 9984696 | 9.999 ppb | m |
| 29) m,p-xylene #2 | 22.358 | 24640906 | 20.407 ppb | |
| 30) o-xylene #2 | 23.163 | 10078357 | 9.945 ppb | m |
| 31) t 1,3,5-trimethylbenzen... | 24.590 | 14168908 | 9.701 ppb | |
| 32) 1,2,4-trimethylbenzen... | 25.108 | 10650588 | 10.184 ppb | |
| 33) naphthalene #2 | 28.054 | 8606987 | 11.424 ppb | m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 10728698 | 10.220 ppb | m |

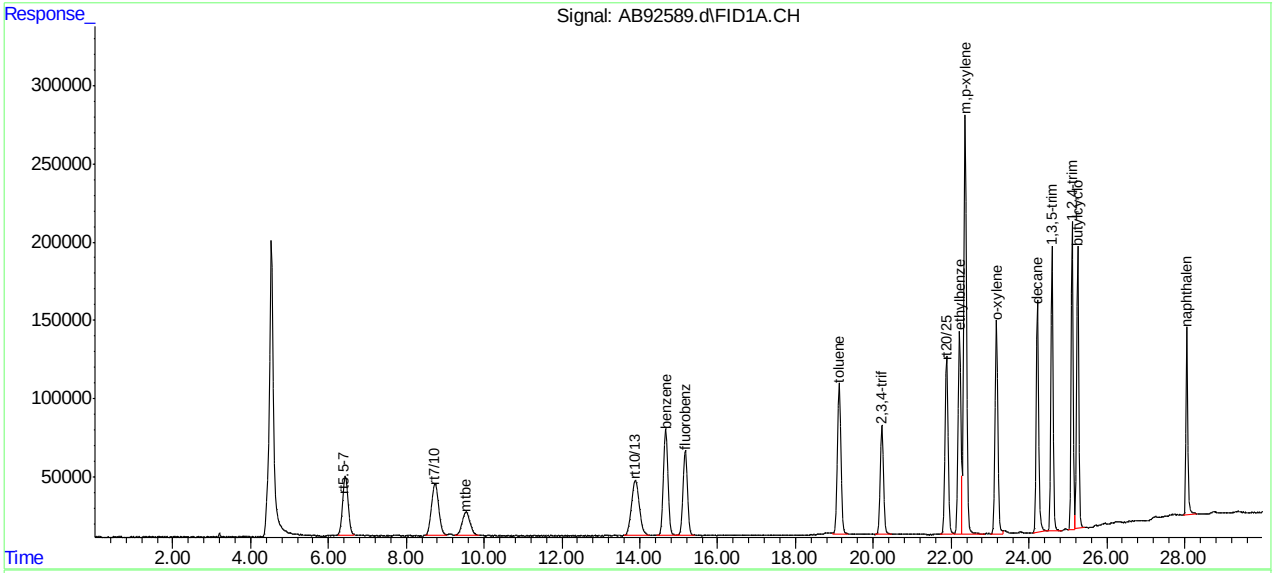
(f)=RT Delta > 1/2 Window (m)=manual int.

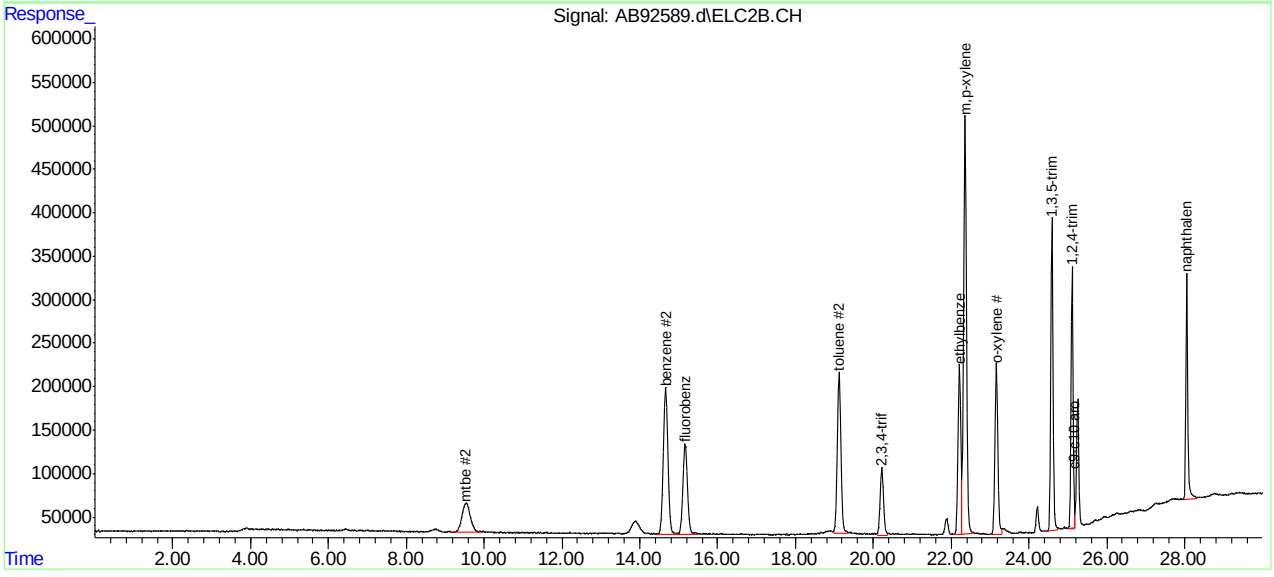
Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:12:47 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



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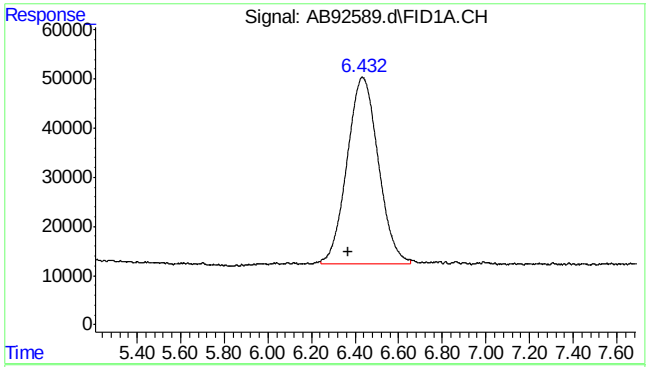
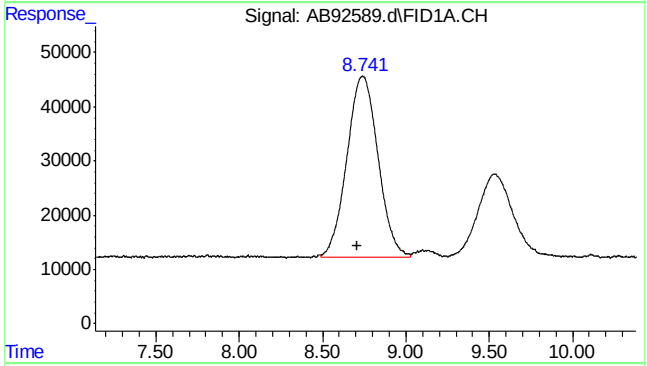


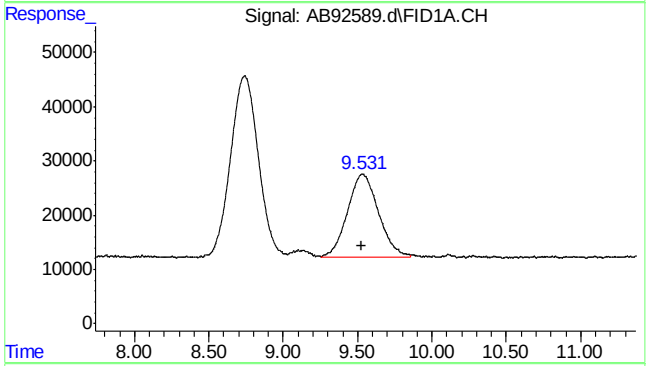

#1 rt5.5-7

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



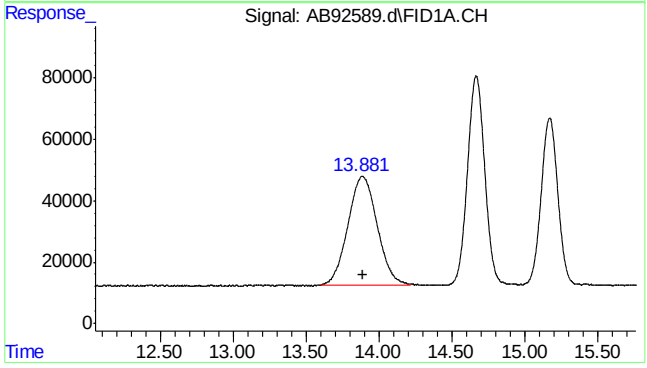

#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 4308812
Conc: 10.81 ppb m




#3 mtbe

R.T.: 9.531 min
Delta R.T.: 0.006 min
Response: 2209462
Conc: 10.13 ppb m




#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 4807629
Conc: 10.87 ppb m

7.5.6

7



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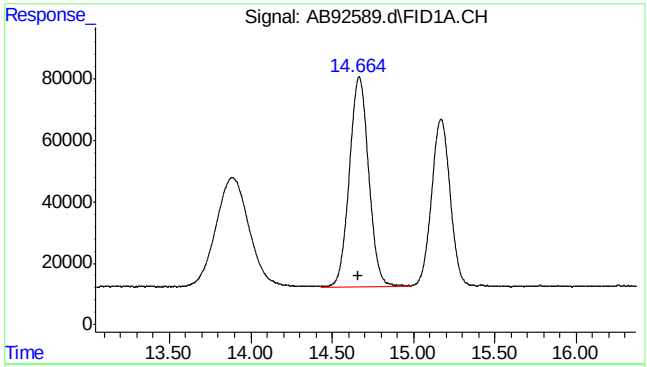
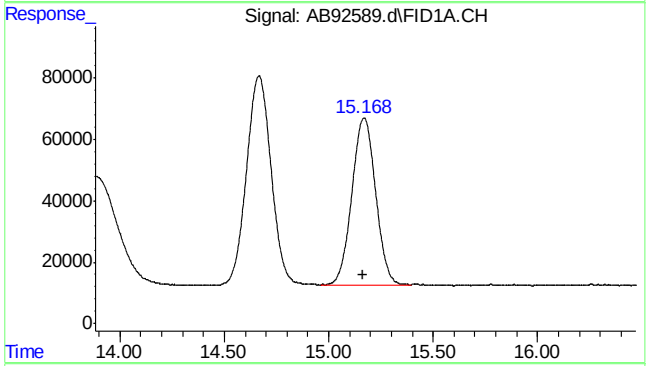


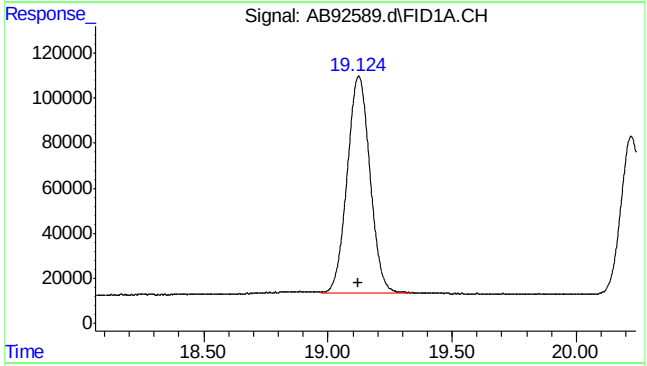

#5 benzene

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



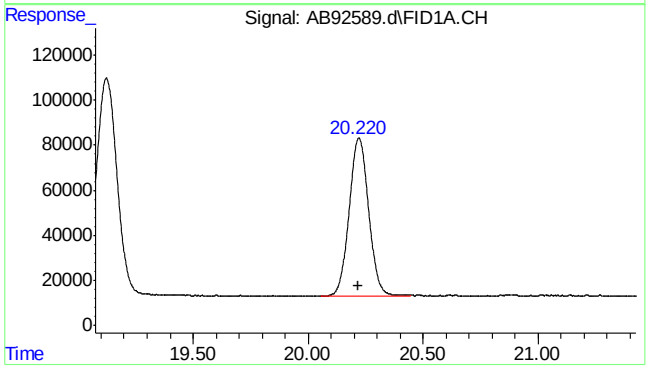

#6 fluorobenzene

R.T.: 15.168 min
Delta R.T.: 0.004 min
Response: 4362458
Conc: 9.86 ppb m



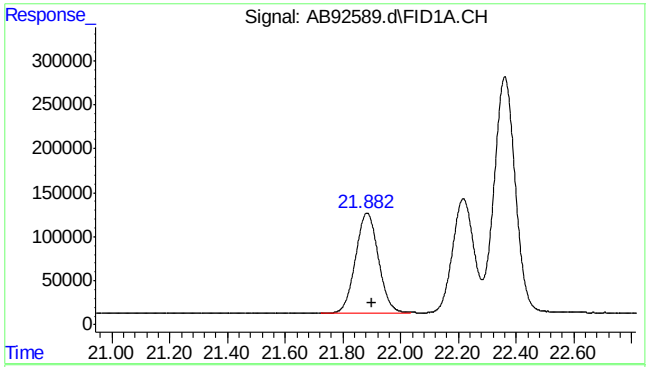

#8 toluene

R.T.: 19.124 min
Delta R.T.: 0.003 min
Response: 6173366
Conc: 10.28 ppb m



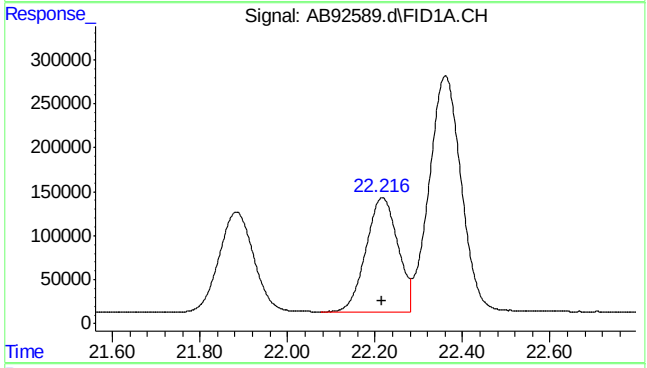

#9 2,3,4-trifluorotoluene

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



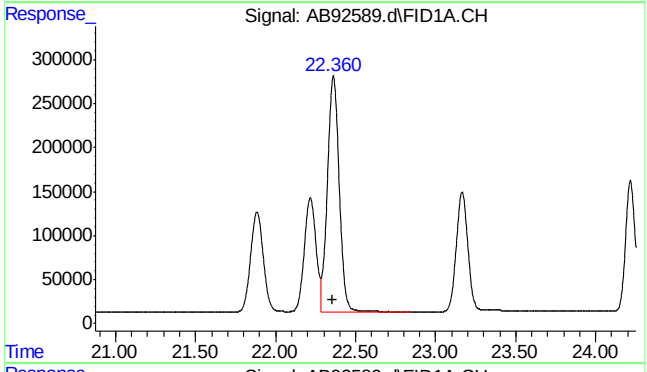

#11 rt20/25

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



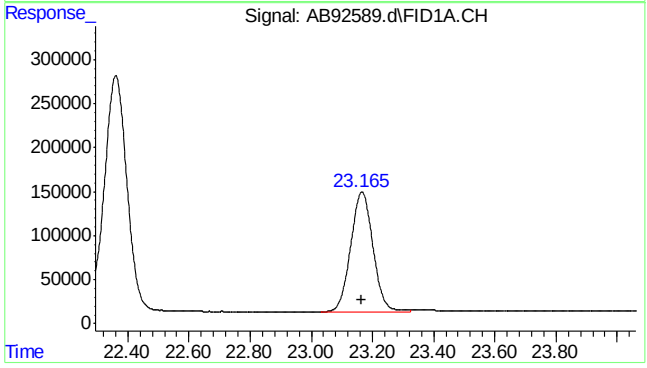

#13 ethylbenzene

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



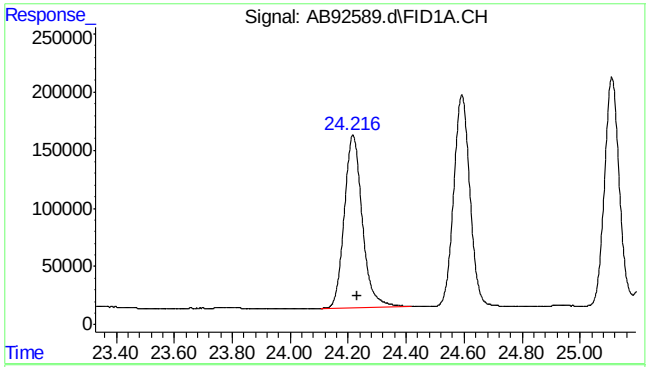

#14 m,p-xylene

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



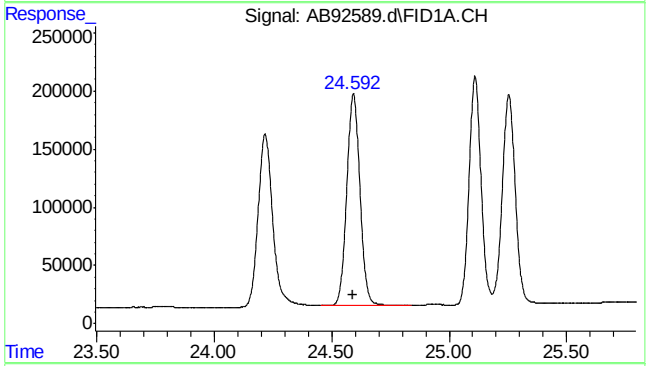

#15 o-xylene

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



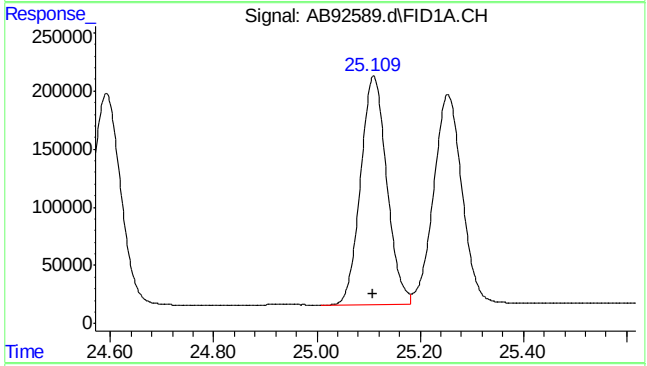

#16 decane

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



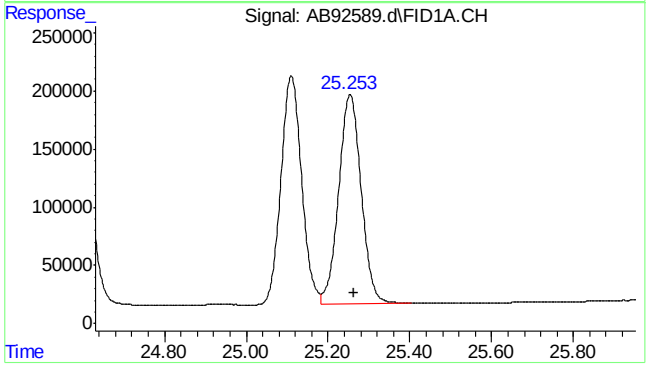

#17 1,3,5-trimethylbenzene

R.T.: 24.592 min
Delta R.T.: 0.001 min
Response: 7137343
Conc: 10.00 ppb m




#18 1,2,4-trimethylbenzene

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 6940844
Conc: 10.48 ppb




#19 butylcyclohexane

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



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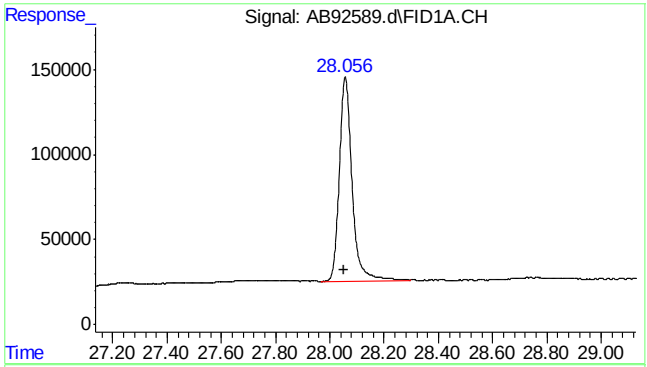
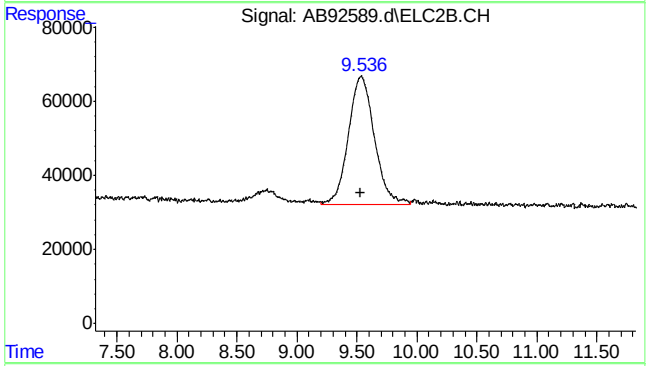


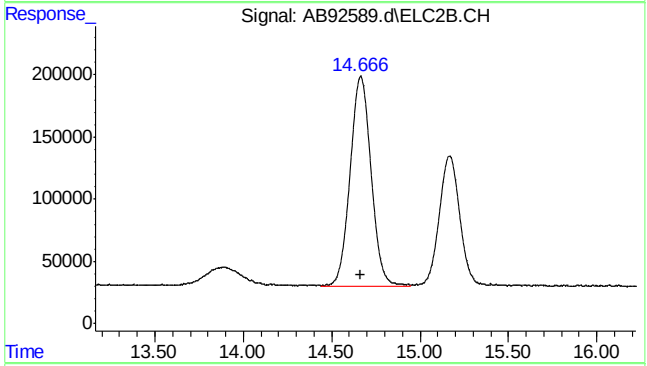

#20 naphthalene

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



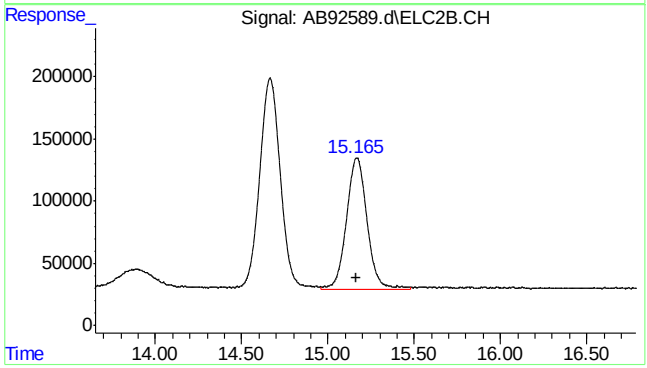

#23 mtbe #2

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




#24 benzene #2

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

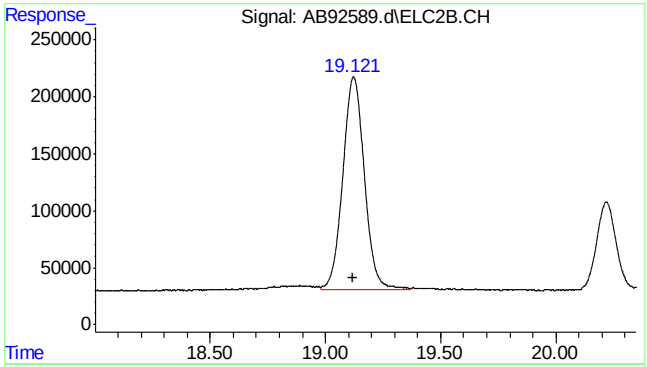



#25 fluorobenzene #2

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

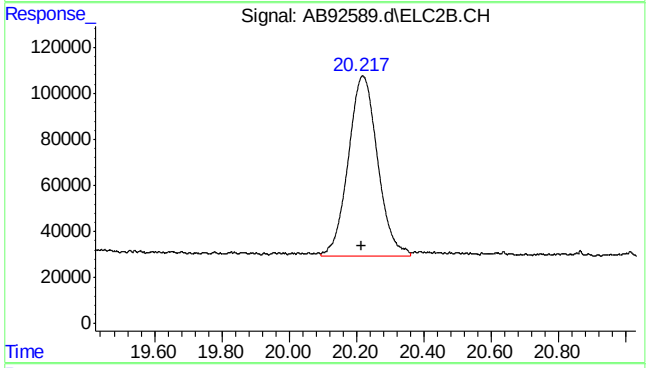


SGS ACCUTEST MC46487



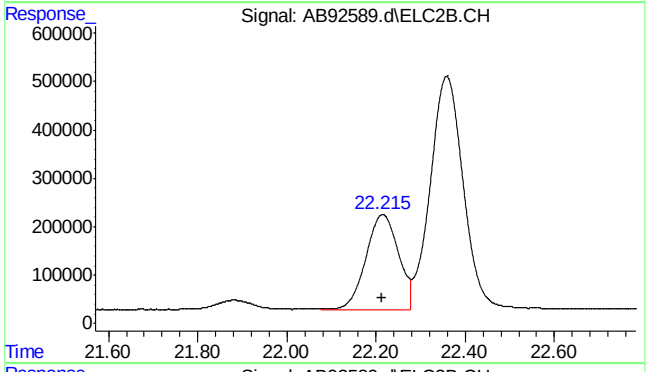

#26 toluene #2

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



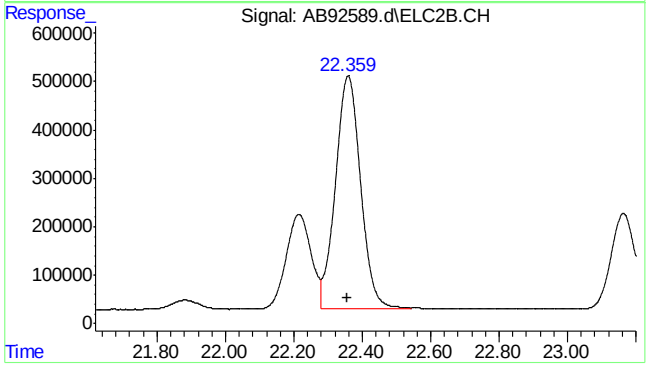

#27 2,3,4-trifluorotoluene #2

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




#28 ethylbenzene #2

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

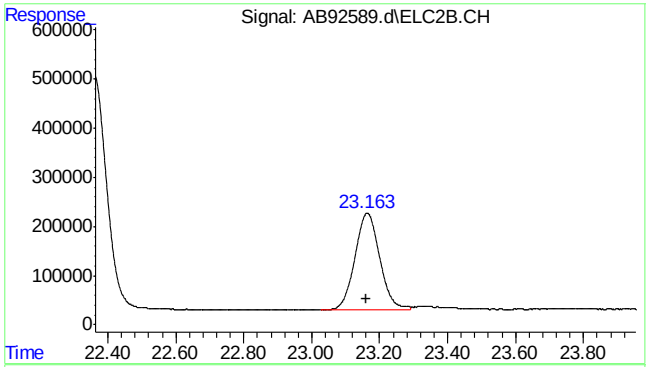



#29 m,p-xylene #2

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

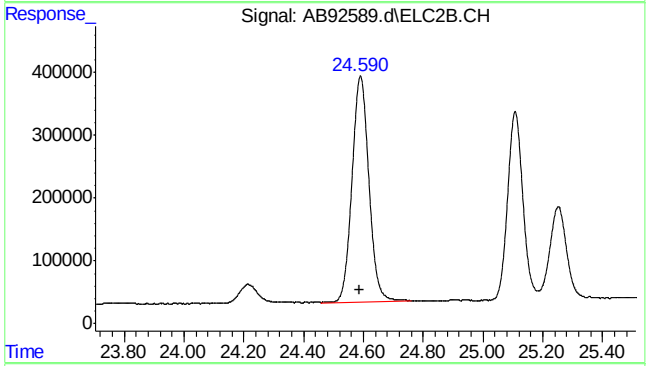


SGS ACCUTEST MC46487



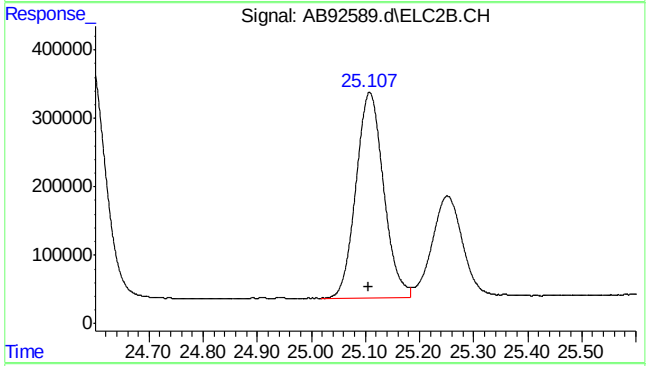

#30 o-xylene #2

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



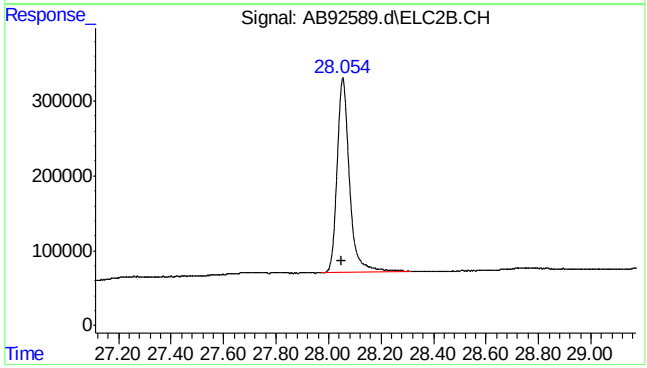

#31 1,3,5-trimethylbenzene #2

R.T.: 24.590 min
Delta R.T.: 0.002 min
Response: 14168908
Conc: 9.70 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: 0.003 min
Response: 10650588
Conc: 10.18 ppb




#33 naphthalene #2

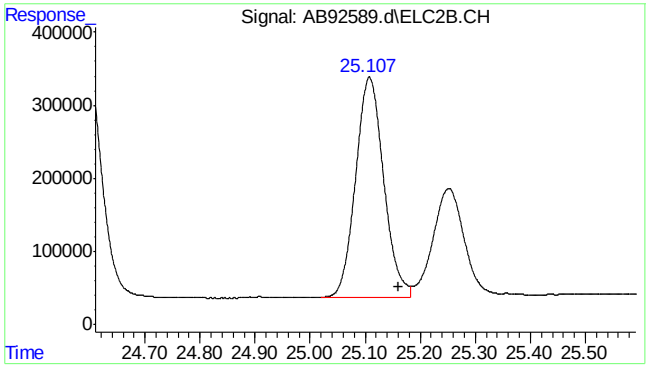
R.T.: 28.054 min
Delta R.T.: 0.005 min
Response: 8606987
Conc: 11.42 ppb m

7.5.6

7



SGS ACCUTEST MC46487




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

      R.T.:   25.160 min
Delta R.T.:    0.000 min
  Response:  10728698
      Conc:  10.22 ppb m
```

7.5.6

7



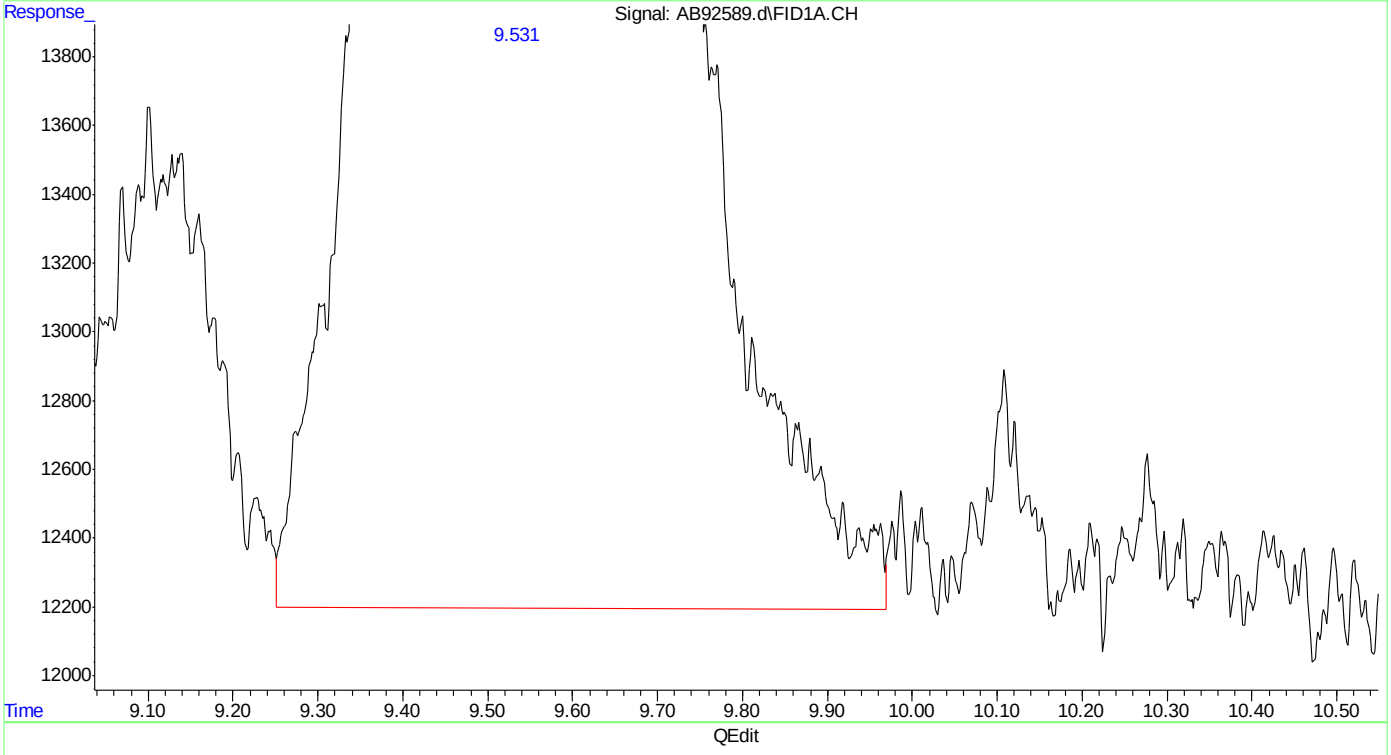
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.531min 10.401 ppb
response 2269467

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:04:23 2016



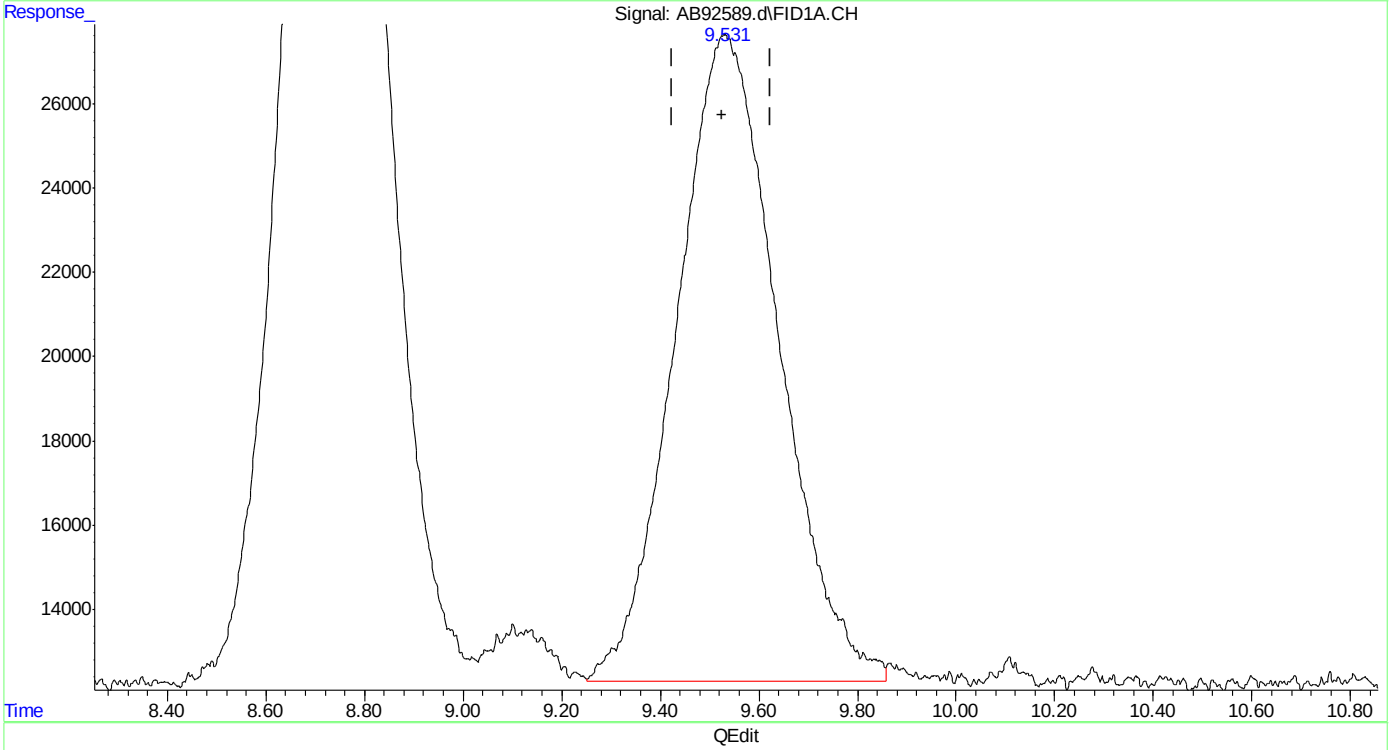
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.531min 10.126 ppb m
response 2209462

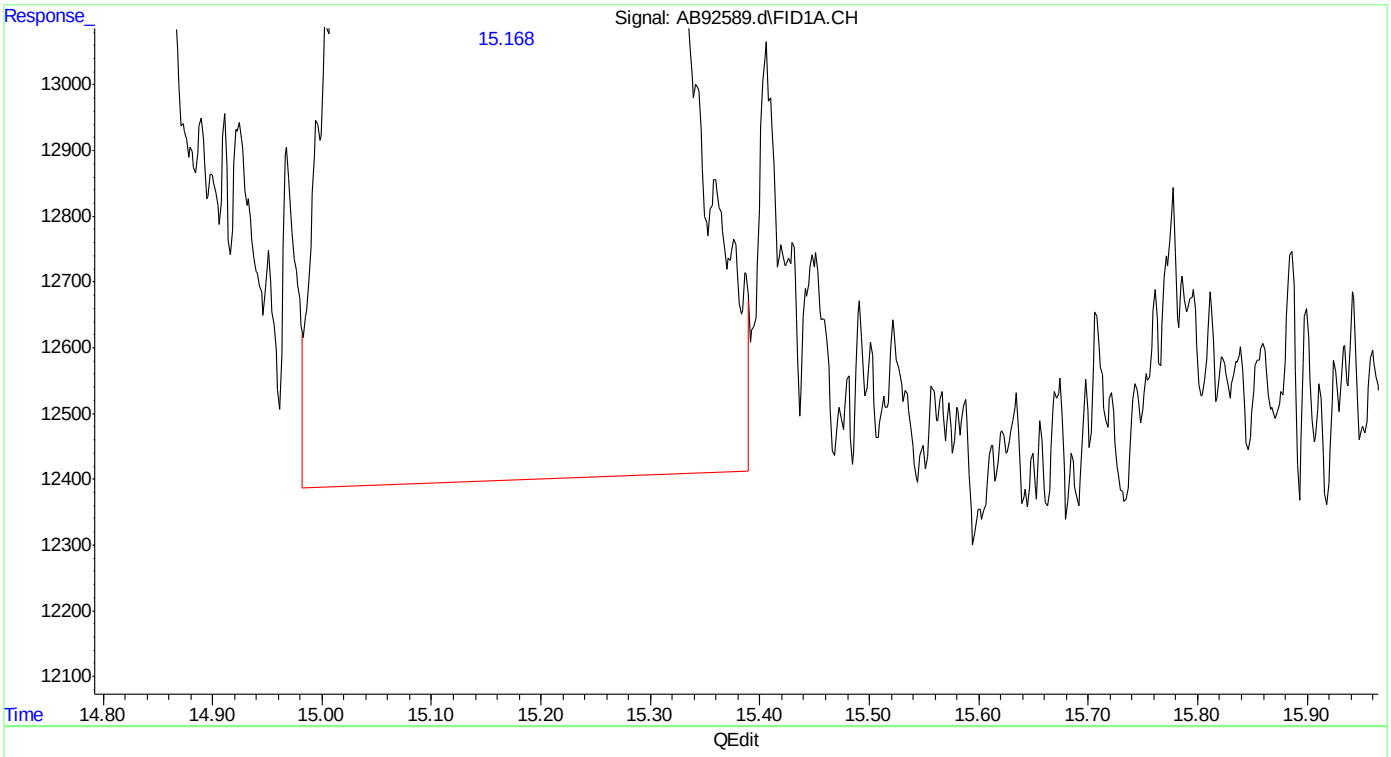
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)
15.169min 9.831 ppb
response 4348009

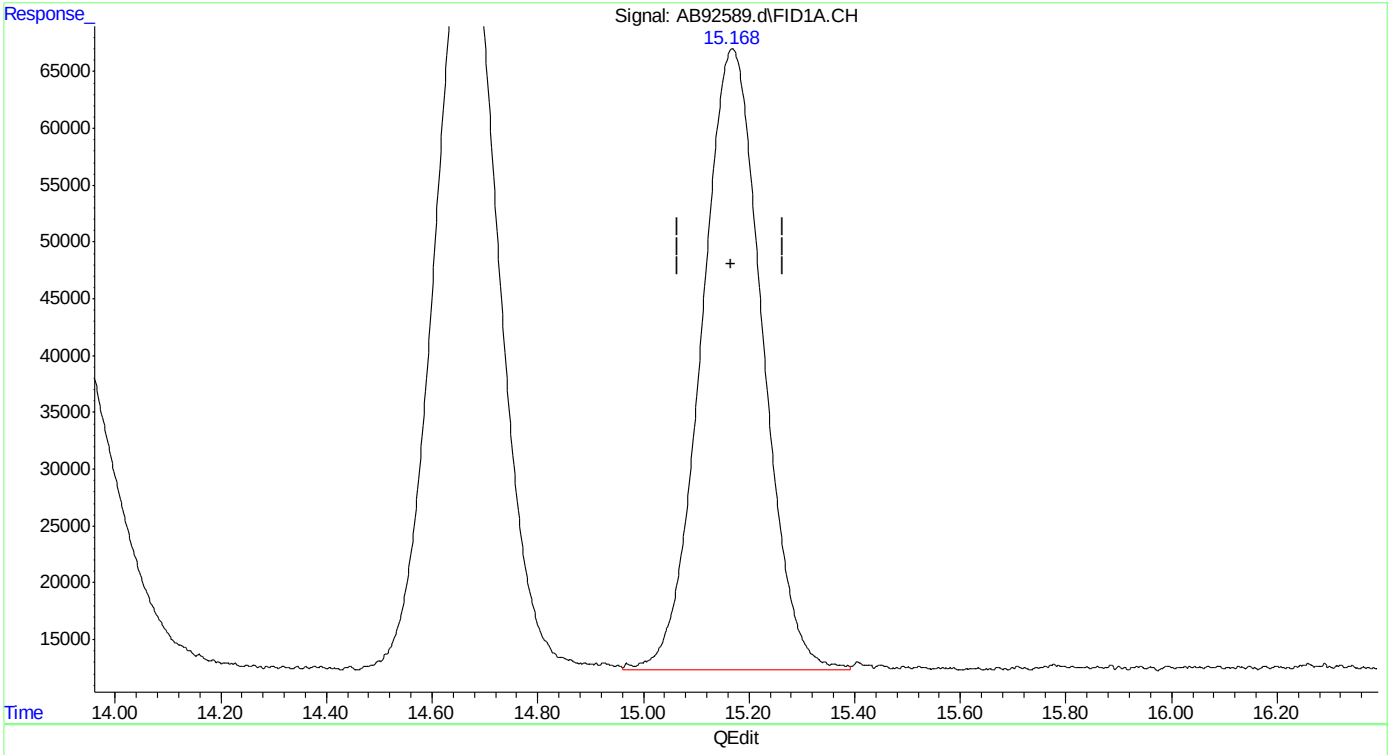
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)
15.168min 9.864 ppb m
response 4362458

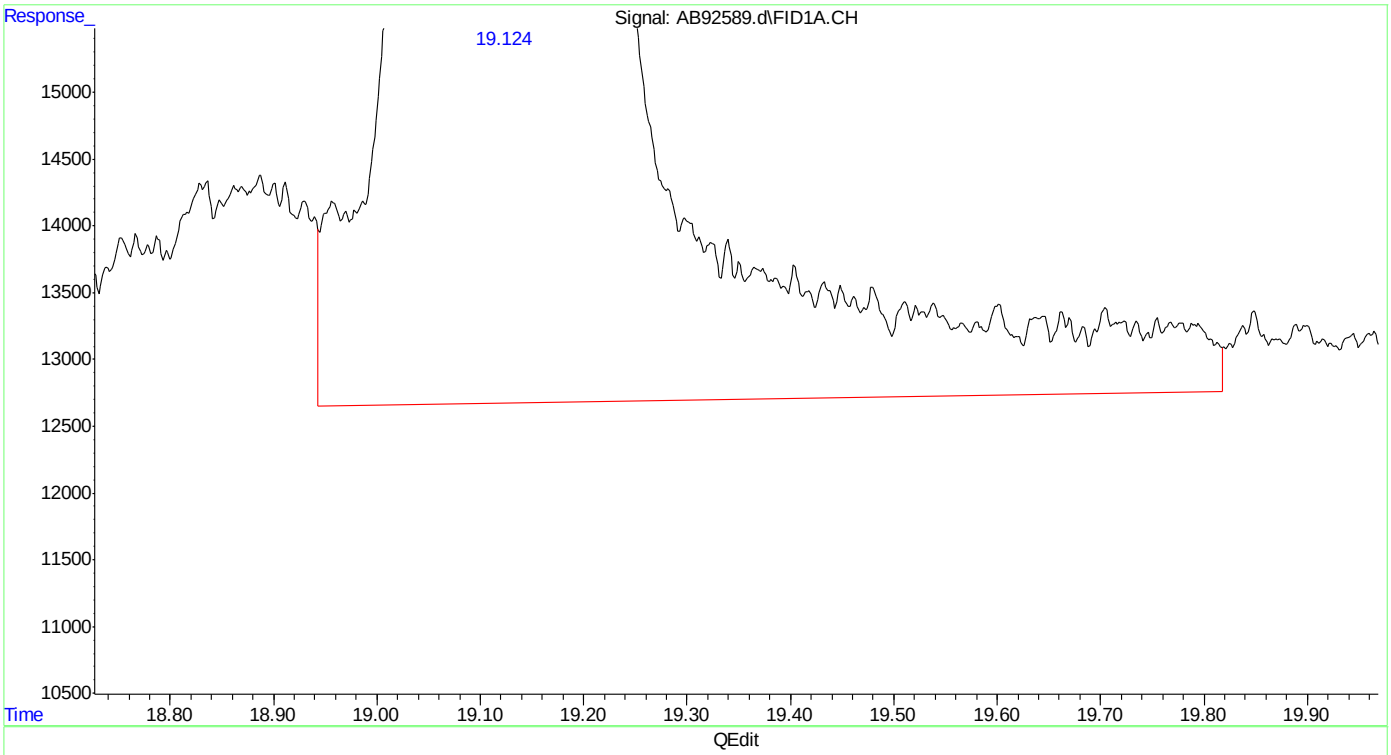
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:06:30 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.124min 10.889 ppb
response 6541207

(+) = Expected Retention Time



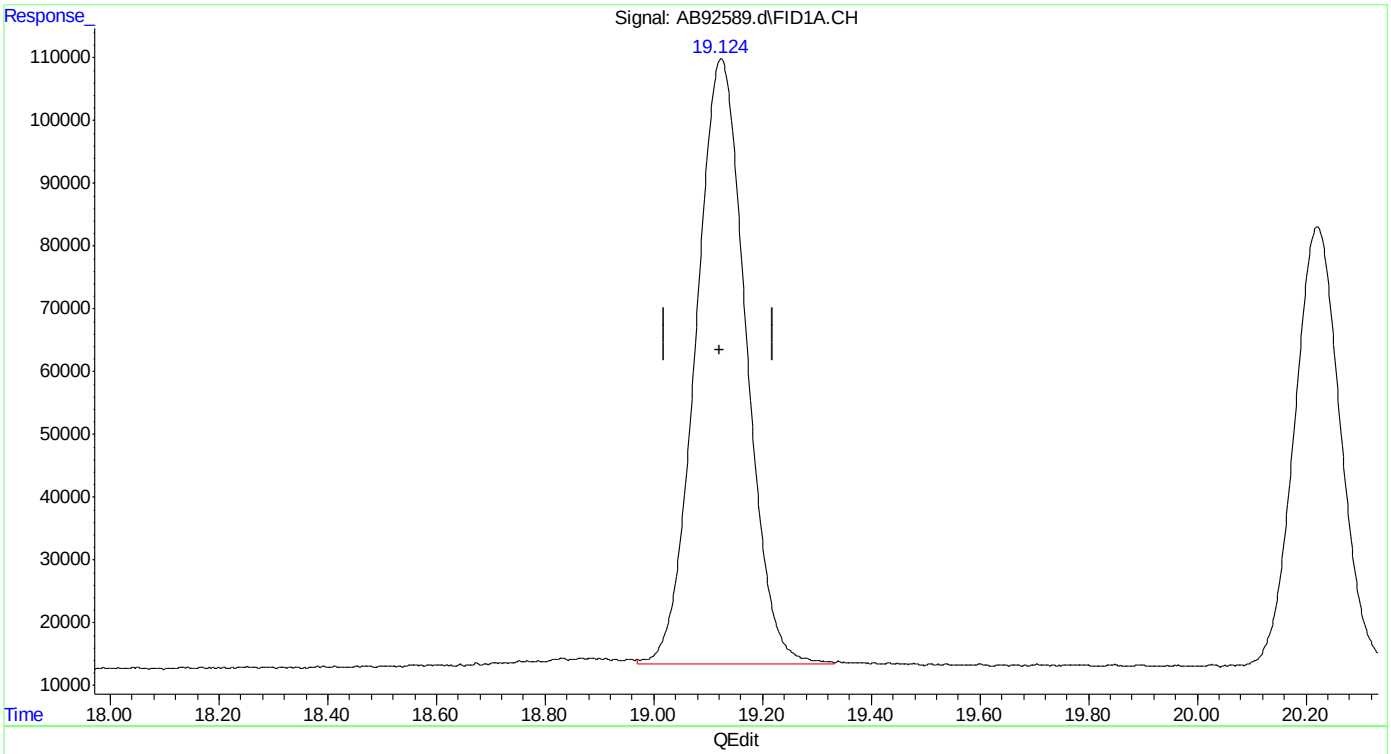
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.124min 10.277 ppb m
response 6173366

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:07:15 2016



SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(9) 2,3,4-trifluorotoluene (s)
20.221min 10.515 ppb
response 4271482

(+) = Expected Retention Time



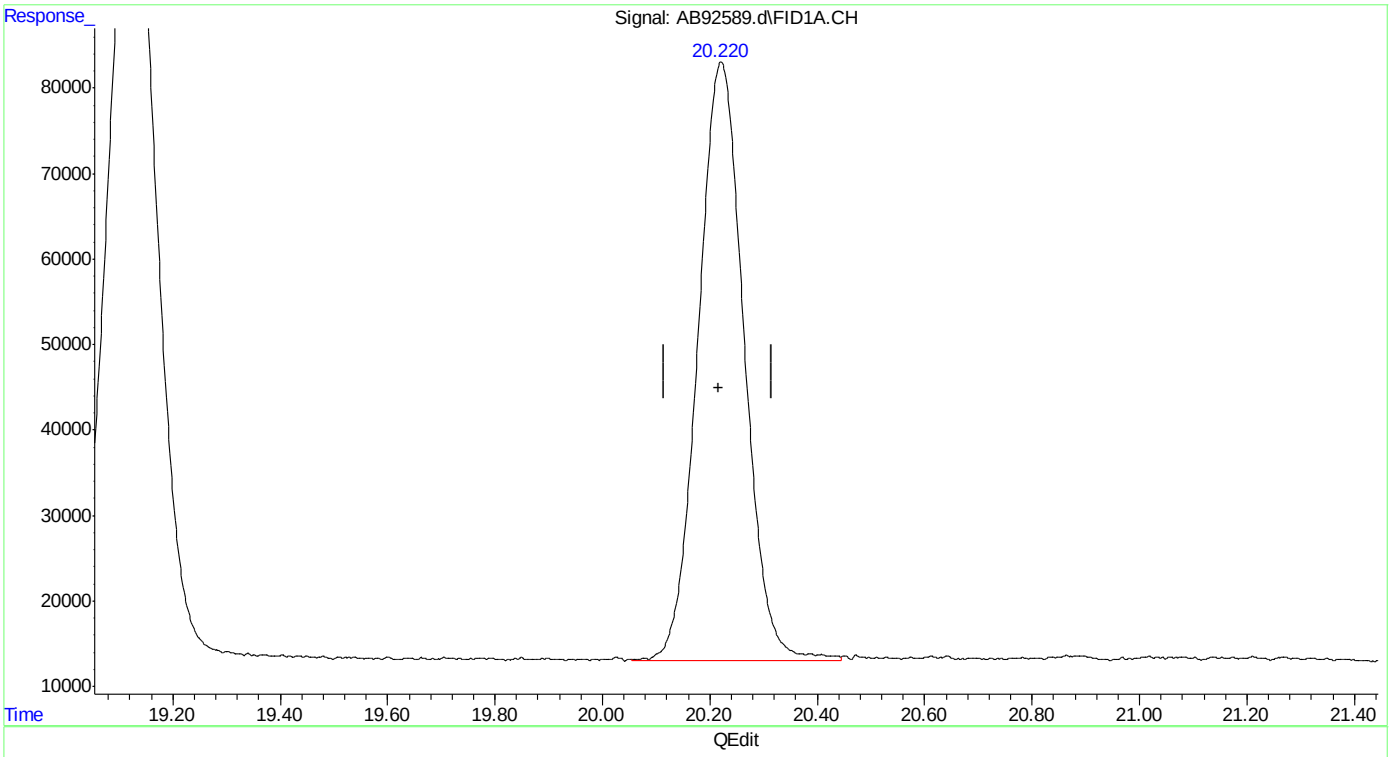
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(9) 2,3,4-trifluorotoluene (s)
20.220min 10.238 ppb m
response 4158758

(+) = Expected Retention Time



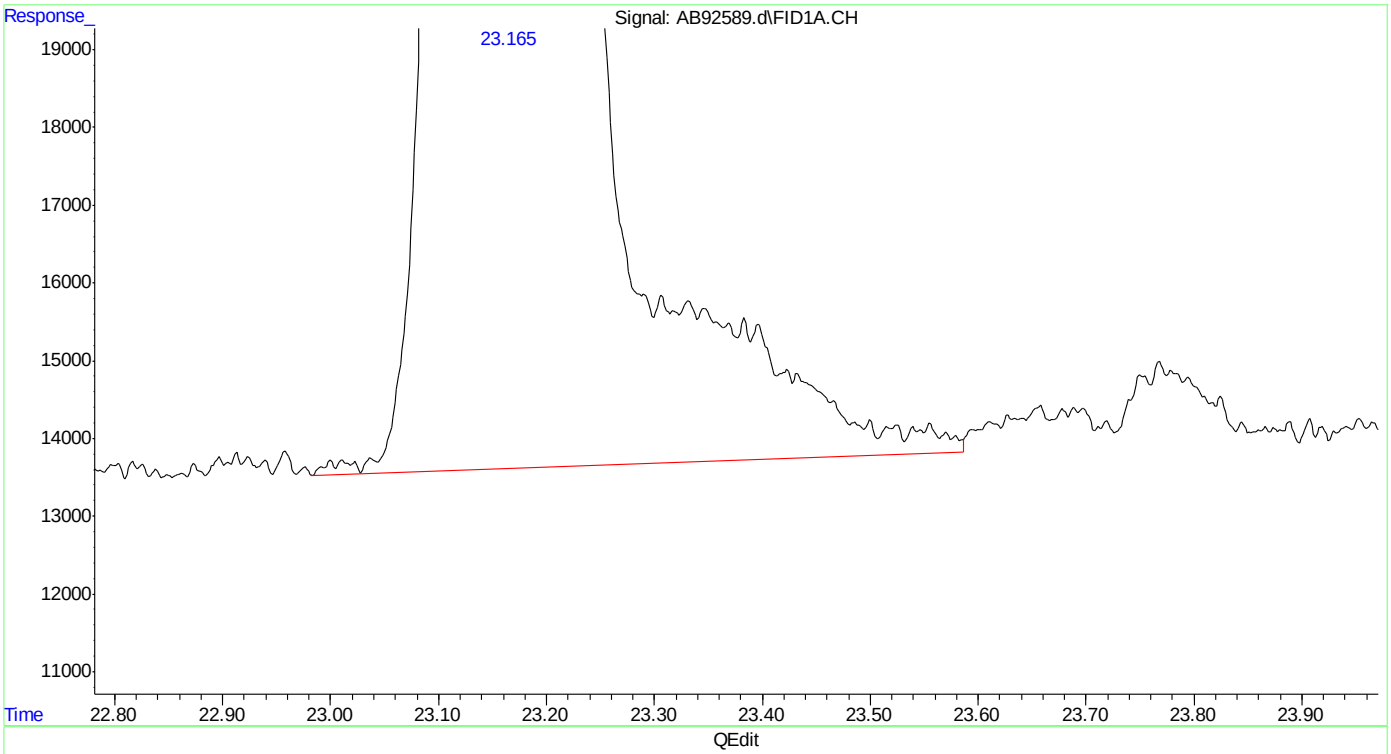
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.165min 10.584 ppb
response 7026957

(+) = Expected Retention Time



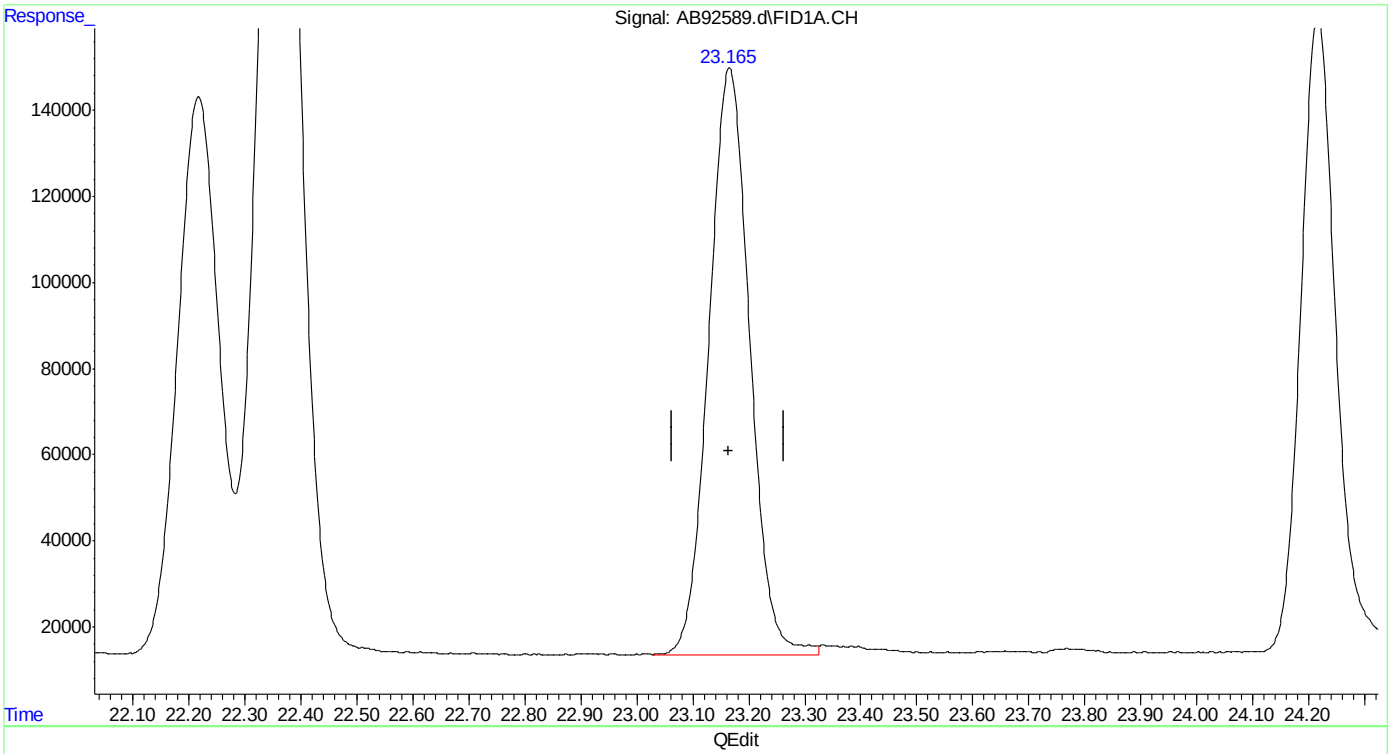
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.165min 10.392 ppb m
response 6899240

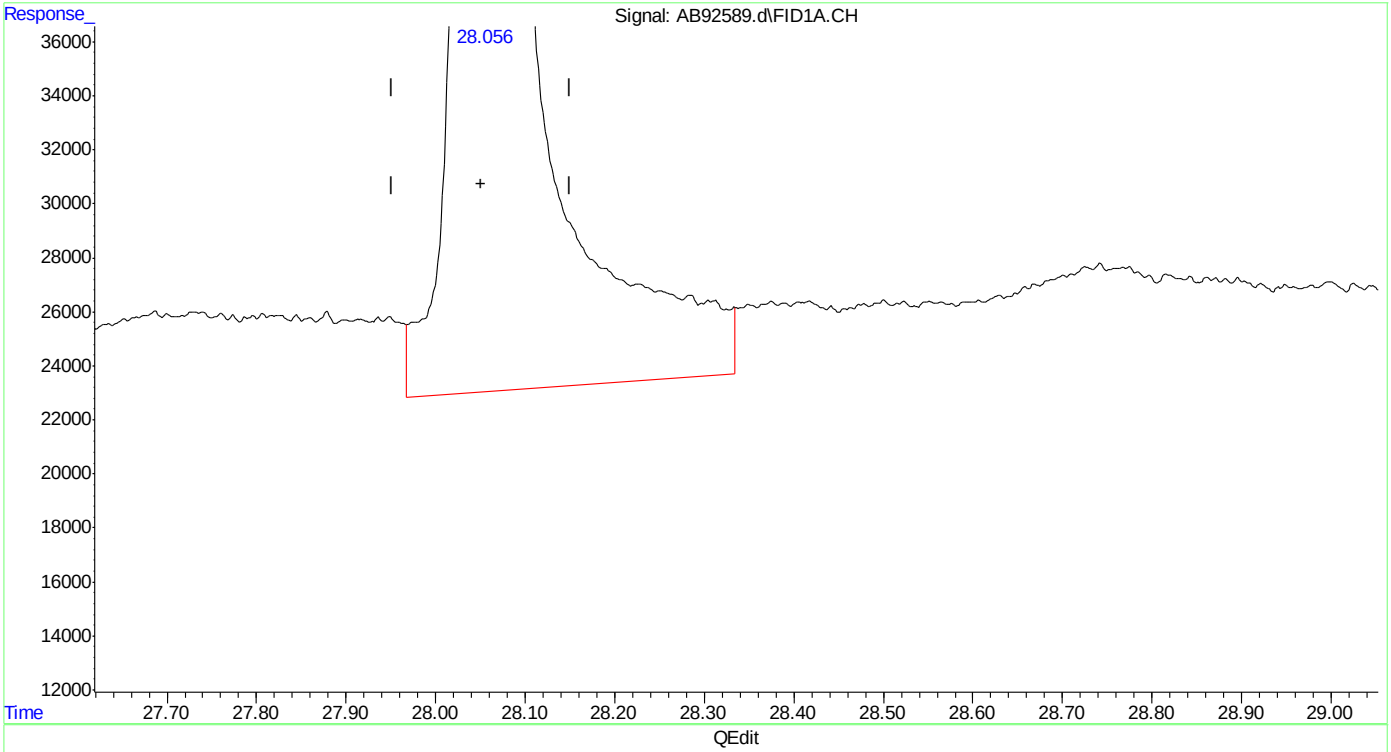
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:08:18 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.057min 13.144 ppb
response 4485292

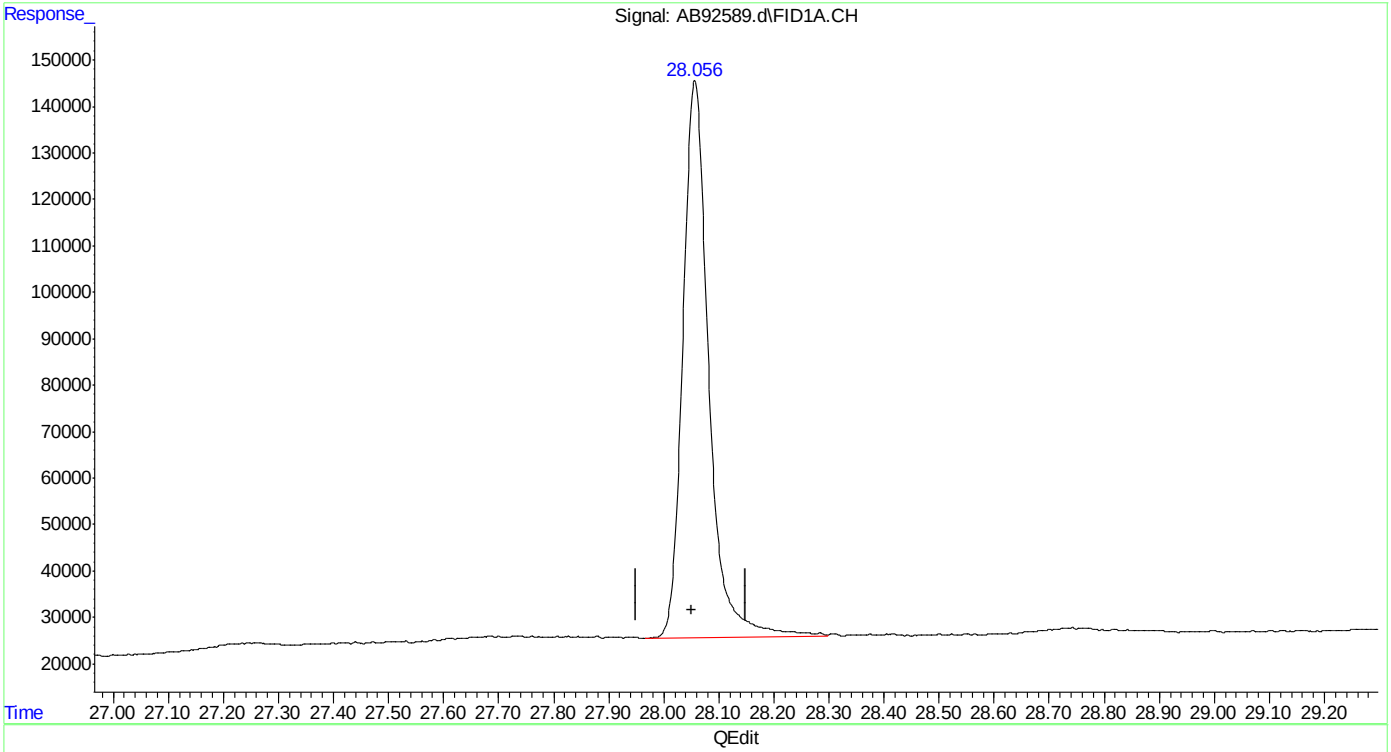
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.056min 11.504 ppb m
response 3925512

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:02 2016

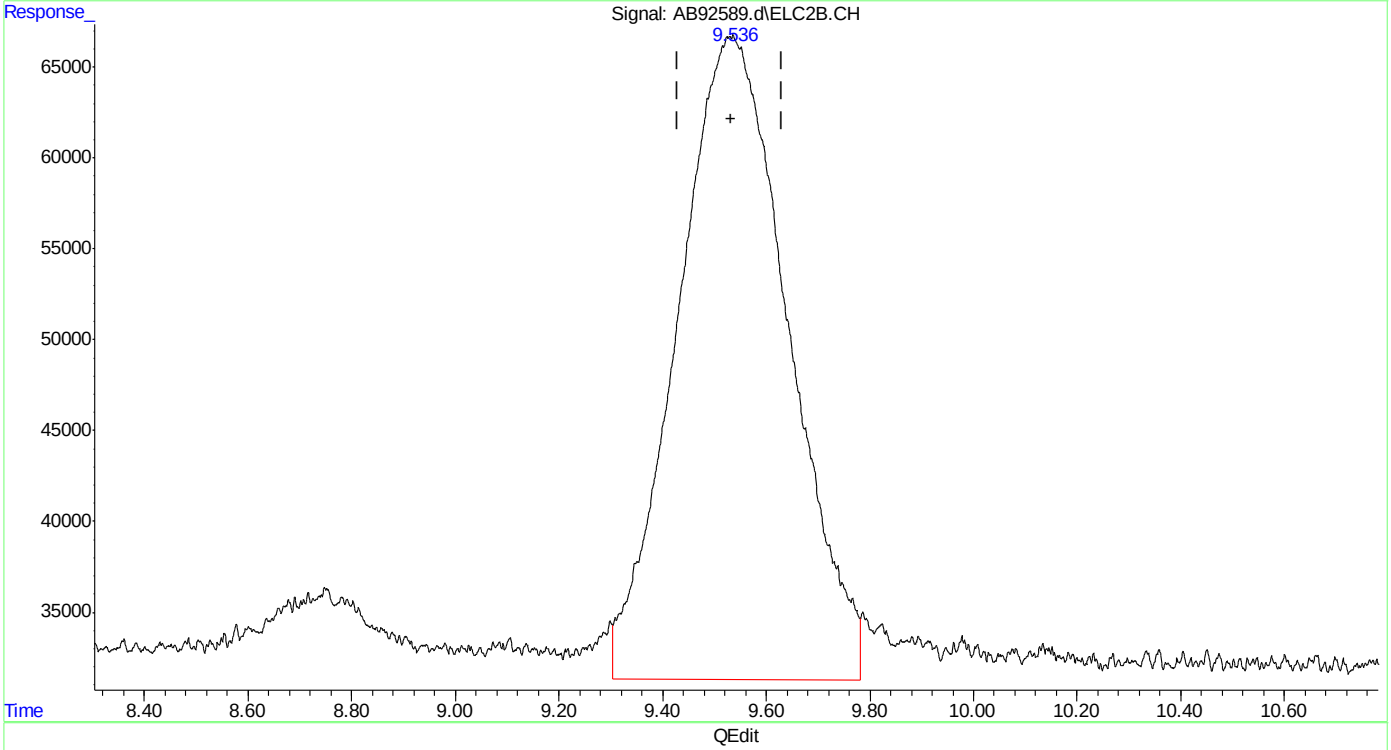

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.536min 10.190 ppb
response 5267217

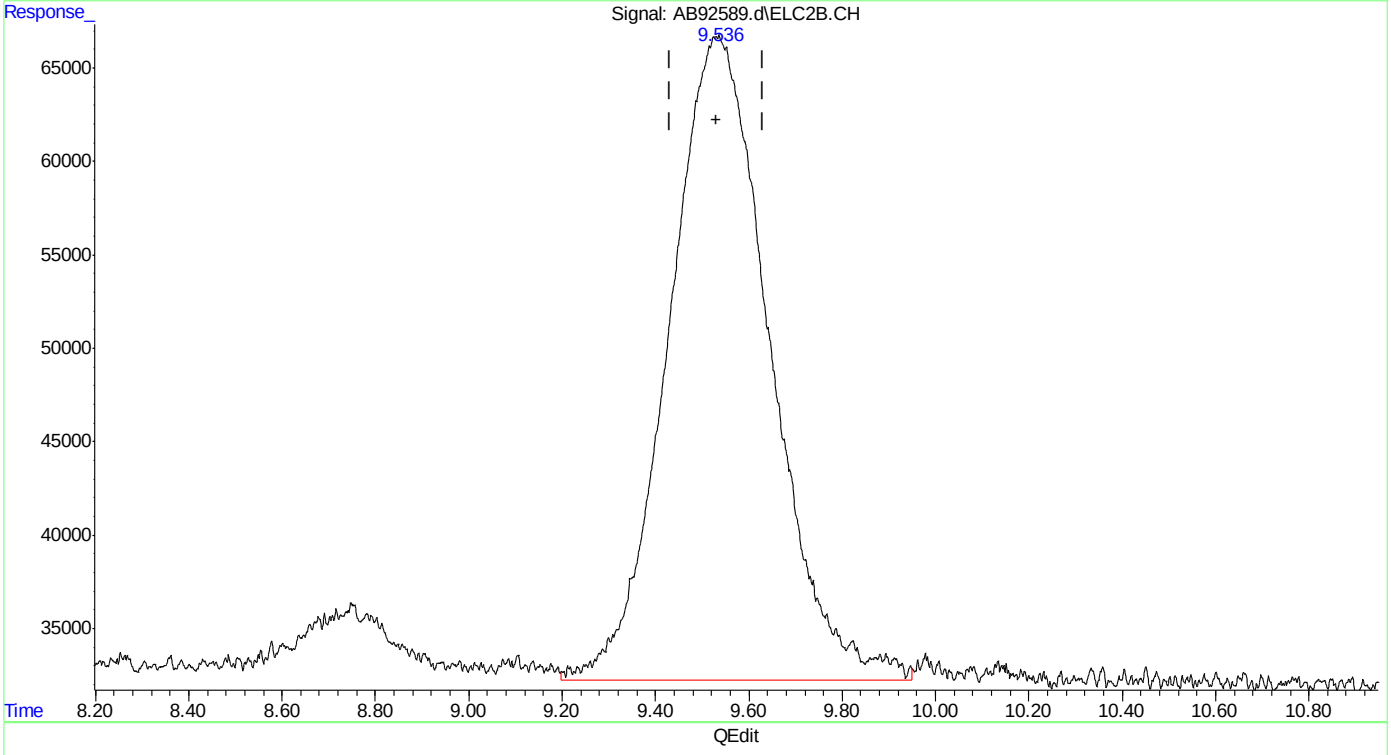
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.536min 10.043 ppb m
response 5190787

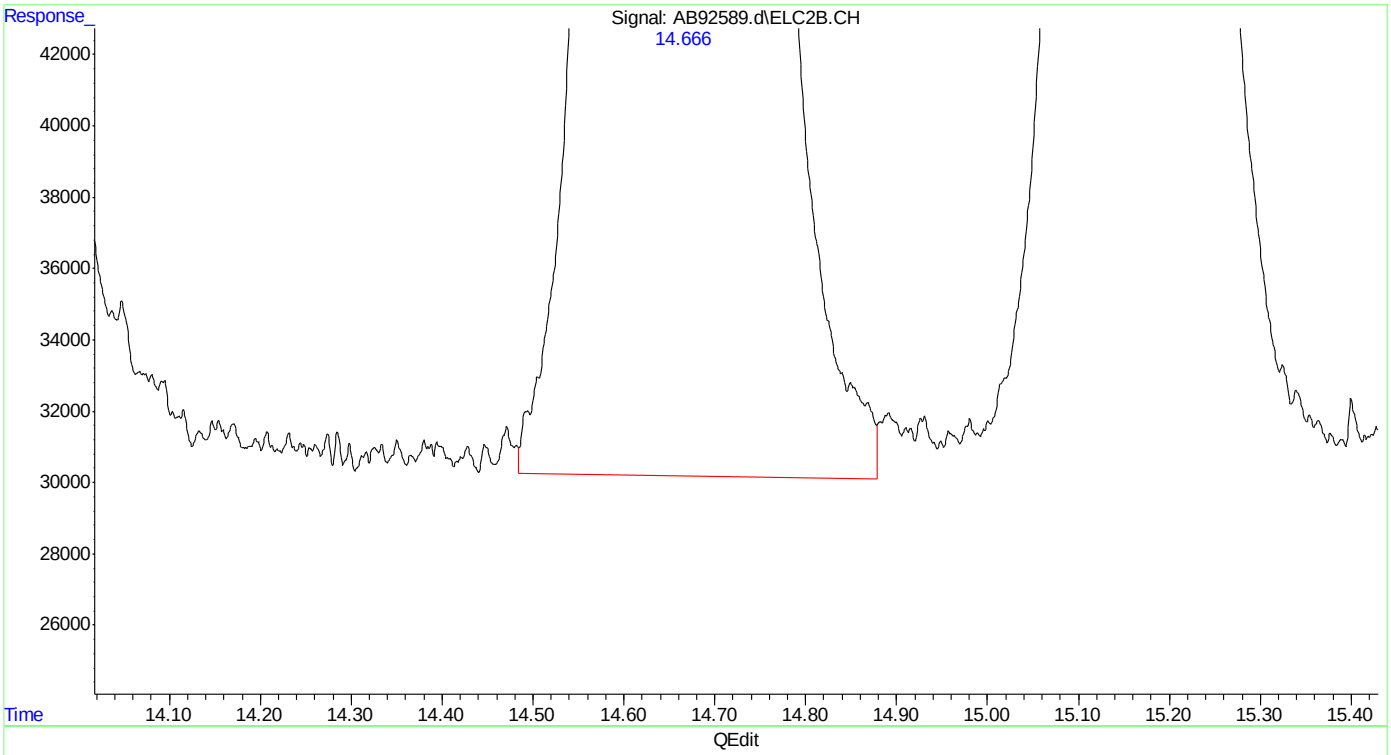
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:28 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2
14.665min 9.853 ppb
response 13860278

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



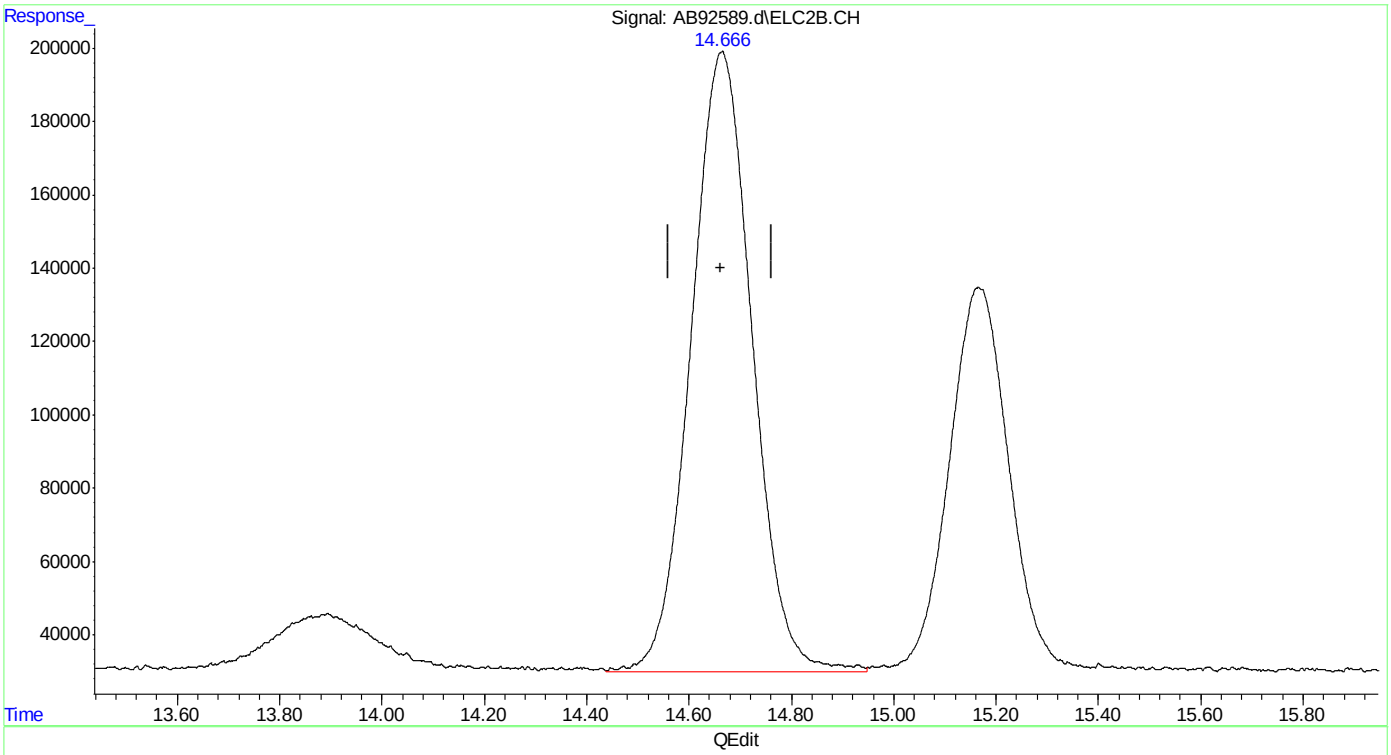
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2
14.666min 9.931 ppb m
response 13970184

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:10:53 2016



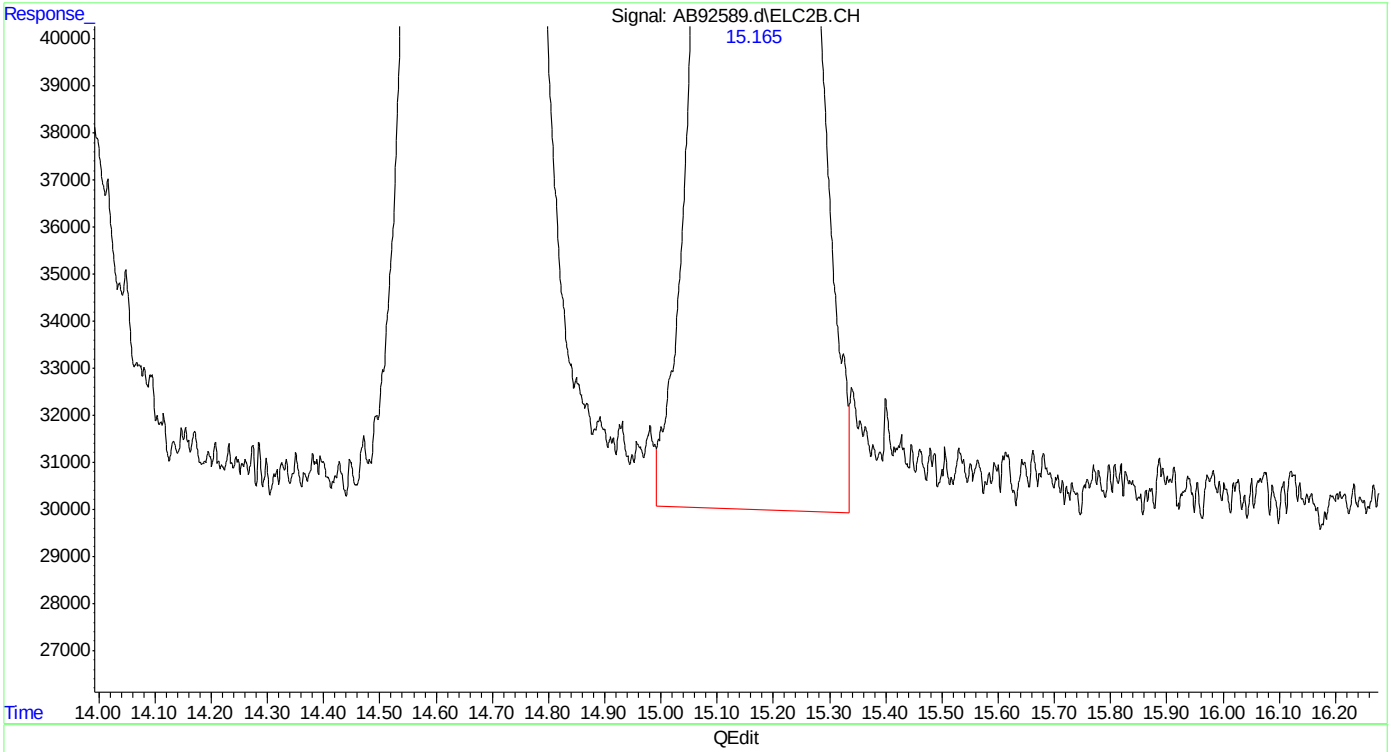
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.165min 9.397 ppb
response 8425578

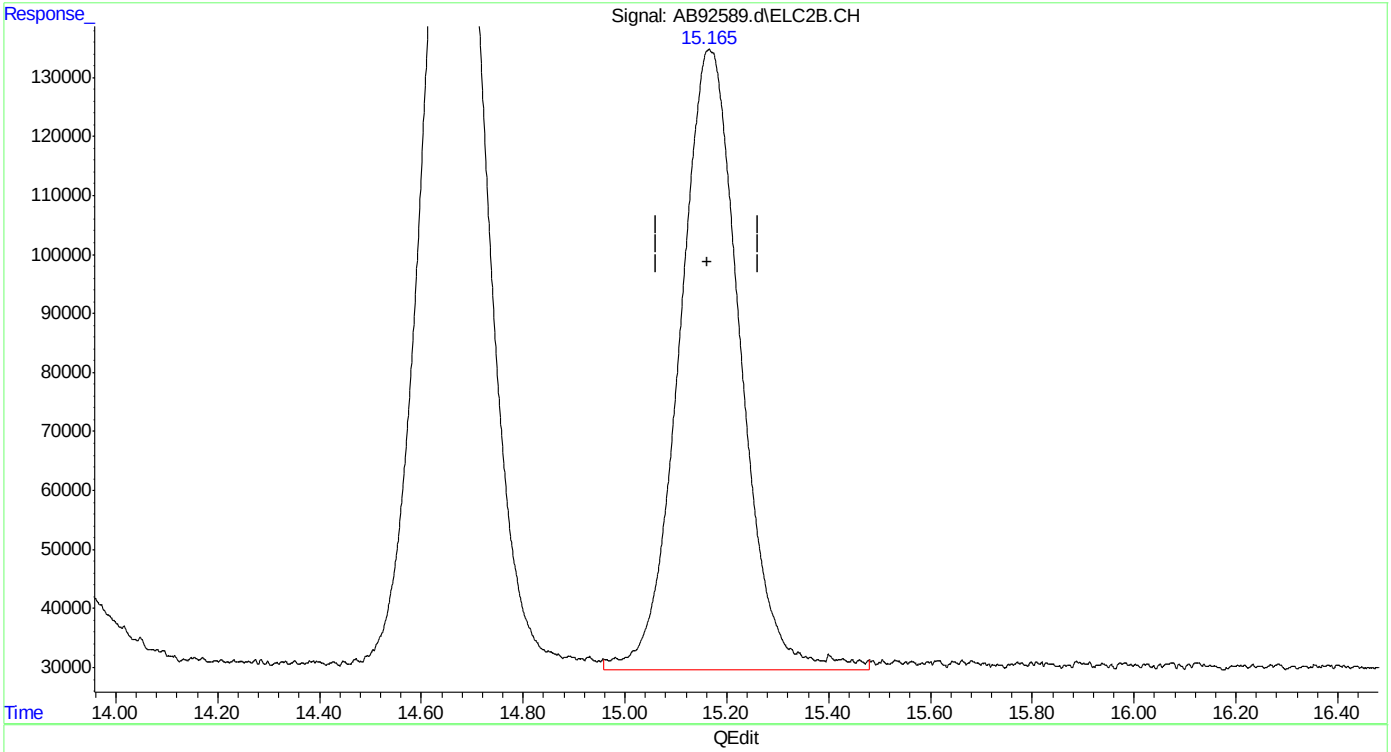
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:00 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.165min 9.692 ppb m
response 8690415

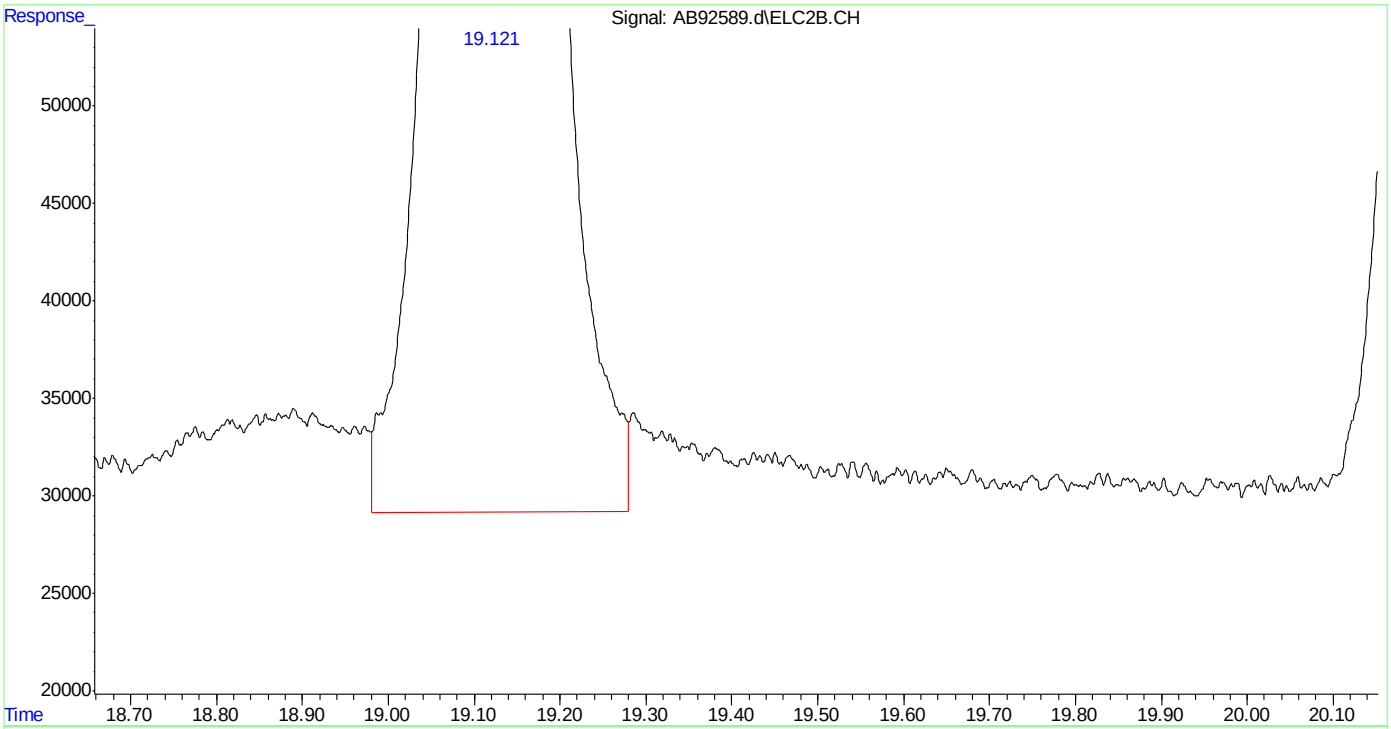
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.122min 10.232 ppb
response 12364517

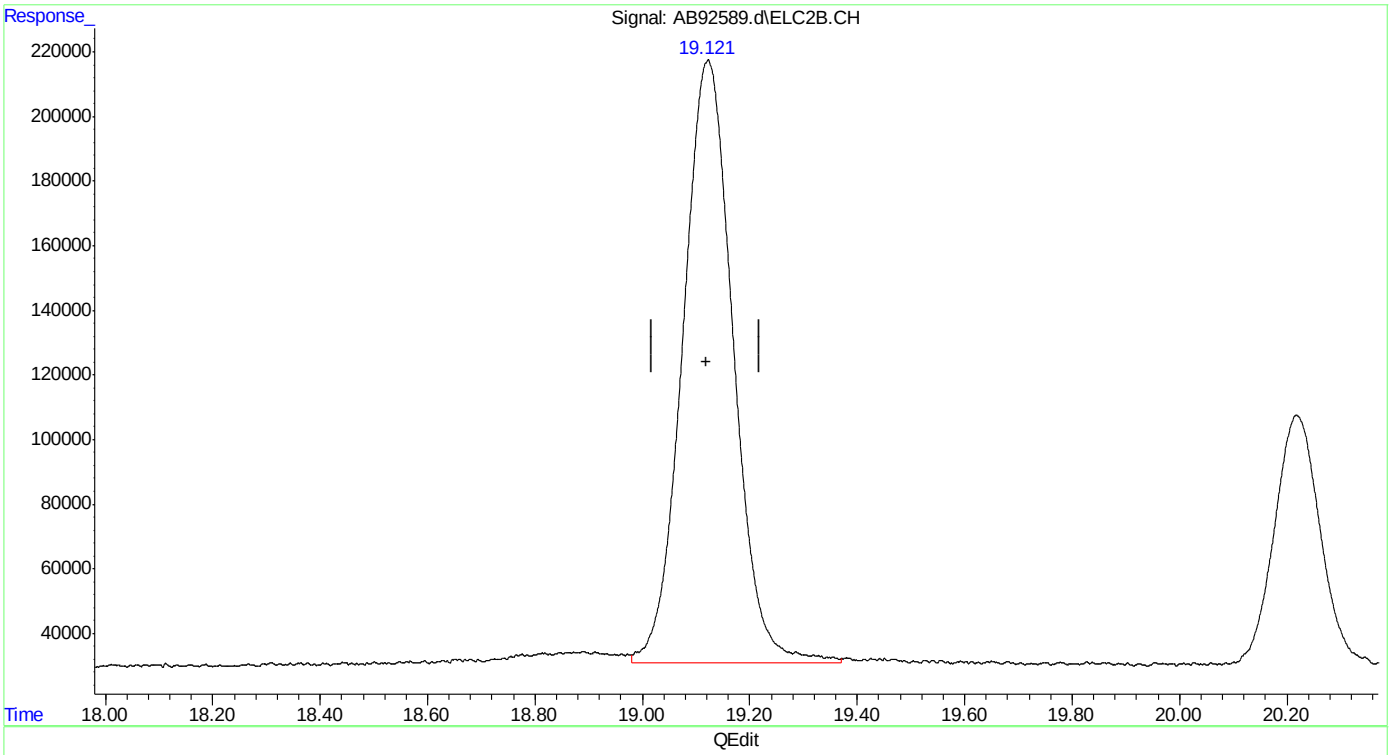
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:20 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.121min 10.073 ppb m
response 12172198

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:33 2016



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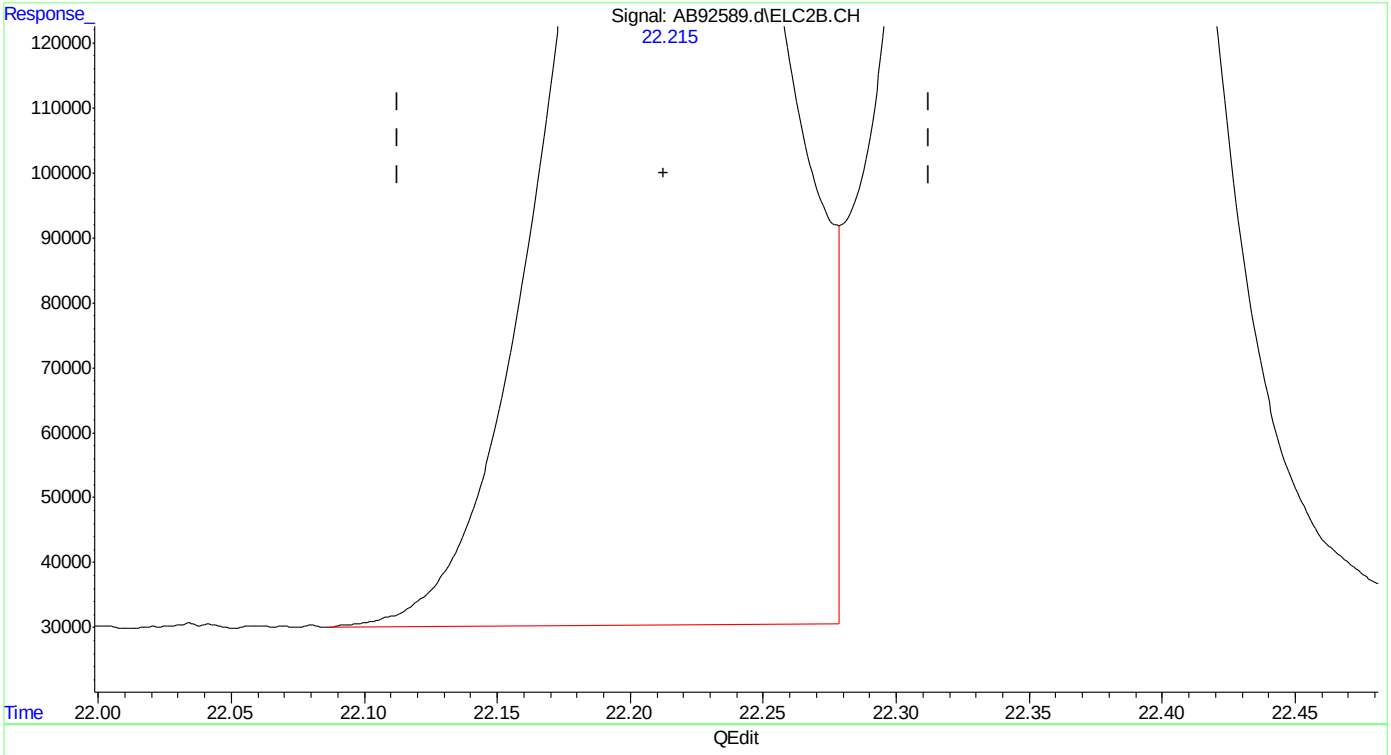
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2
22.215min 9.903 ppb
response 9888665

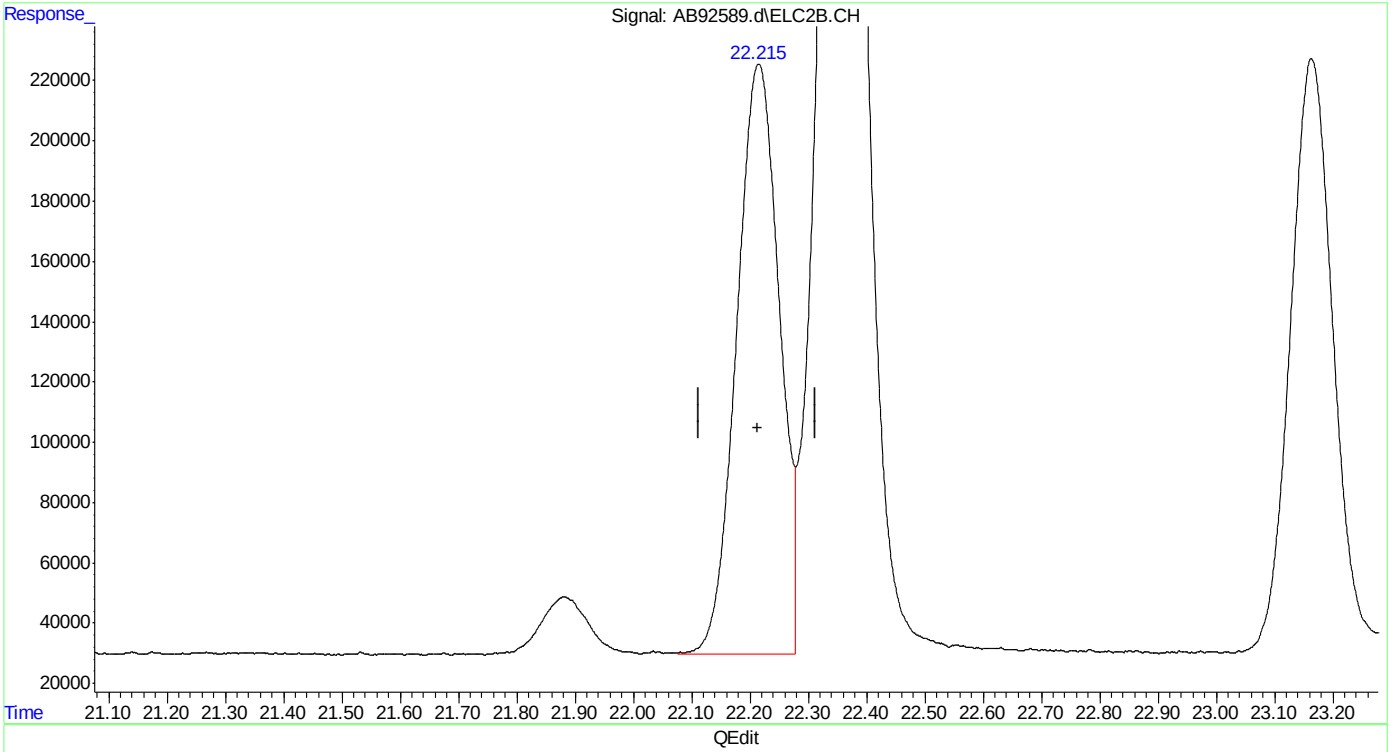
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




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

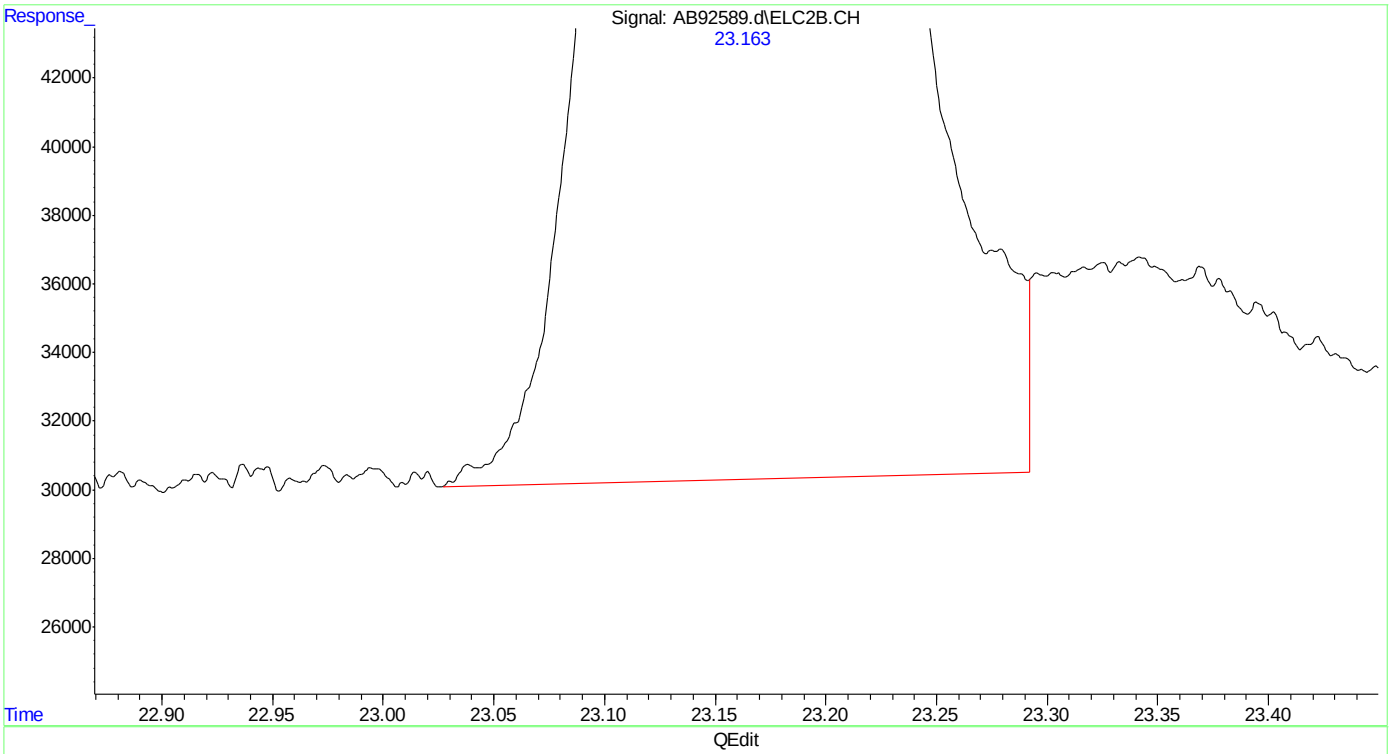
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(30) o-xylene #2
23.163min 9.905 ppb
response 10037806

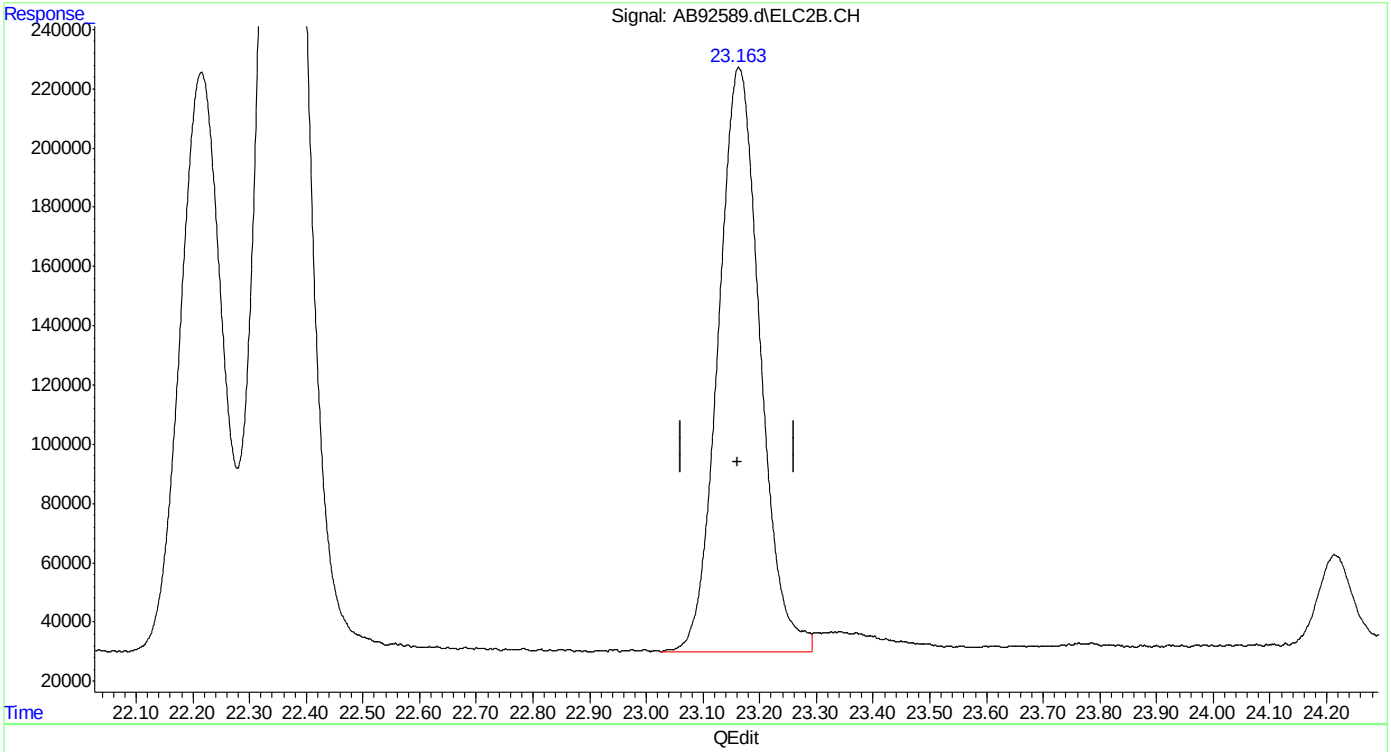
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:11:57 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(30) o-xylene #2
23.163min 9.945 ppb m
response 10078357

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



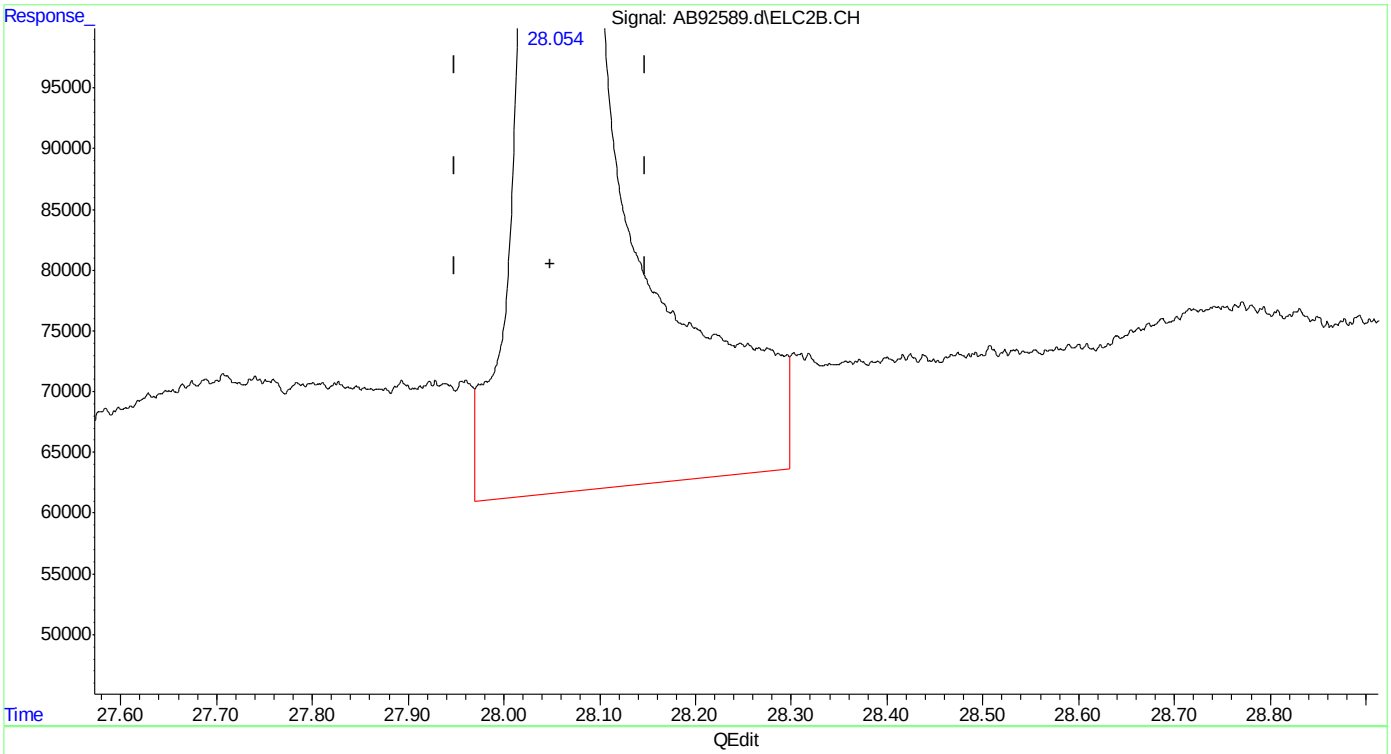
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.054min 13.694 ppb
response 10317491

(+) = Expected Retention Time



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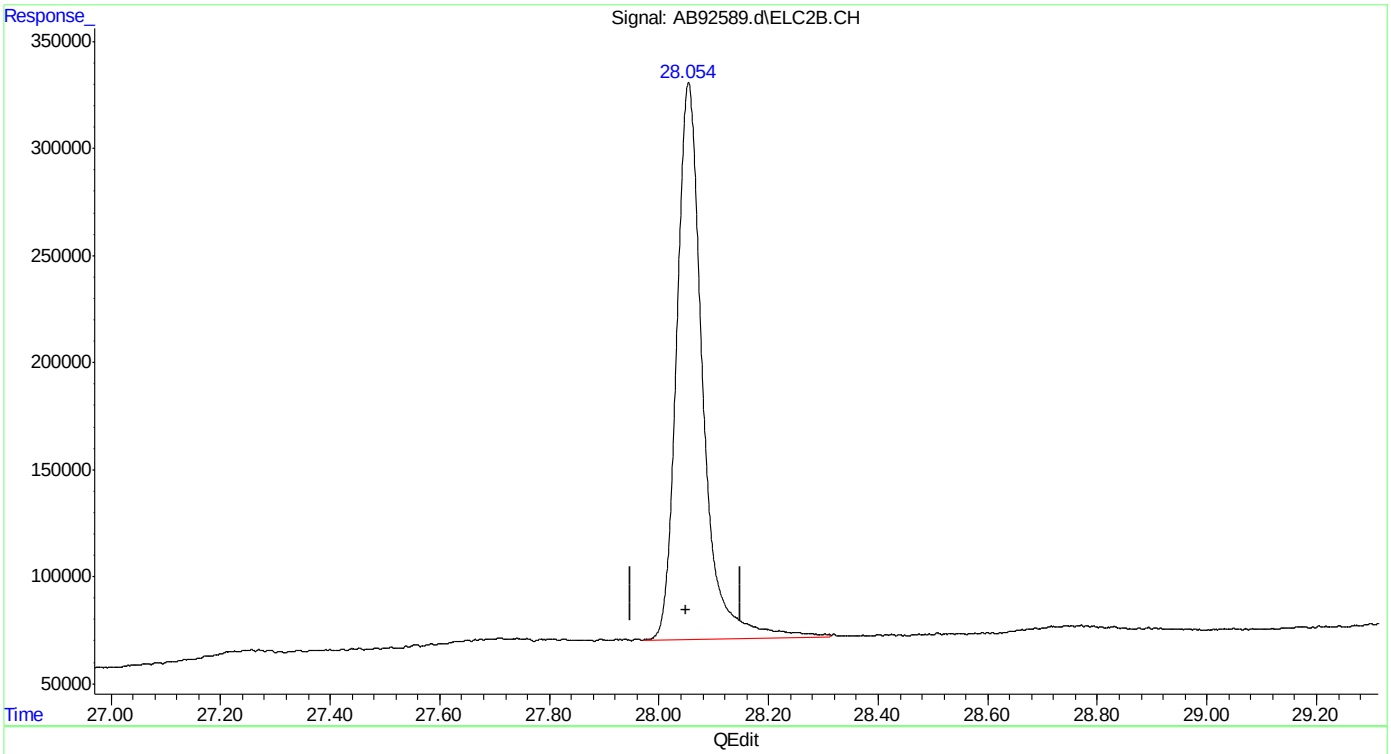
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:03:19 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 11:32:55 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.054min 11.424 ppb m
response 8606987

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


SGS ACCUTEST MC46487

AB92590.D

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

Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:21:11 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units | |
|---|---|---|---|---|
| System Monitoring Compounds | | | | |
| 6) s fluorobenzene | 15.172 | 2200101 | 5.009 ppb | m |
| Spiked Amount 50.000 | | Recovery = | 10.02% | |
| 9) s 2,3,4-trifluorotoluene | 20.226 | 2067831 | 5.031 ppb | |
| Spiked Amount 50.000 | | Recovery = | 10.06% | |
| 25) s fluorobenzene #2 | 15.171 | 4291225 | 4.861 ppb | |
| Spiked Amount 50.000 | | Recovery = | 9.72% | |
| 27) s 2,3,4-trifluorotoluen... | 20.223 | 2393092 | 5.071 ppb | m |
| Spiked Amount 50.000 | | Recovery = | 10.14% | |
| Target Compounds | | | | |
| 1) h rt5.5-7 | 6.370 | 1948123 | 5.386 ppb | m |
| 2) h rt7/10 | 8.710 | 2254884 | 5.437 ppb | m |
| 3) mtbe | 9.545 | 1116791 | 5.086 ppb | m |
| 4) h rt10/13 | 13.890 | 2659091 | 5.762 ppb | m |
| 5) benzene | 14.667 | 2826290 | 5.096 ppb | |
| 8) toluene | 19.126 | 3128391 | 5.137 ppb | m |
| 11) h rt20/25 | 21.900 | 3202956 | 5.325 ppb | m |
| 13) ethylbenzene | 22.220 | 3304644 | 5.084 ppb | m |
| 14) m,p-xylene | 22.364 | 6912378 | 10.236 ppb | |
| 15) o-xylene | 23.168 | 3460195 | 5.112 ppb | m |
| 16) h decane | 24.230 | 3274046 | 5.339 ppb | m |
| 17) t 1,3,5-trimethylbenzene | 24.595 | 3652478 | 5.118 ppb | |
| 18) 1,2,4-trimethylbenzene | 25.113 | 3525706 | 5.198 ppb | |
| 19) h butylcyclohexane | 25.263 | 3520100 | 5.375 ppb | m |
| 20) naphthalene | 28.062 | 1936540 | 5.278 ppb | m |
| 23) mtbe #2 | 9.529 | 2603992 | 5.027 ppb | m |
| 24) benzene #2 | 14.666 | 7007038 | 4.998 ppb | |
| 26) toluene #2 | 19.125 | 6163190 | 5.082 ppb | m |
| 28) ethylbenzene #2 | 22.219 | 4988642 | 4.996 ppb | m |
| 29) m,p-xylene #2 | 22.362 | 12375835 | 10.146 ppb | |
| 30) o-xylene #2 | 23.167 | 5064076 | 5.011 ppb | |
| 31) t 1,3,5-trimethylbenzen... | 24.593 | 7113412 | 4.944 ppb | |
| 32) 1,2,4-trimethylbenzen... | 25.110 | 5356131 | 5.075 ppb | m |
| 33) naphthalene #2 | 28.059 | 4141853 | 5.132 ppb | m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 5353469 | 5.044 ppb | m |

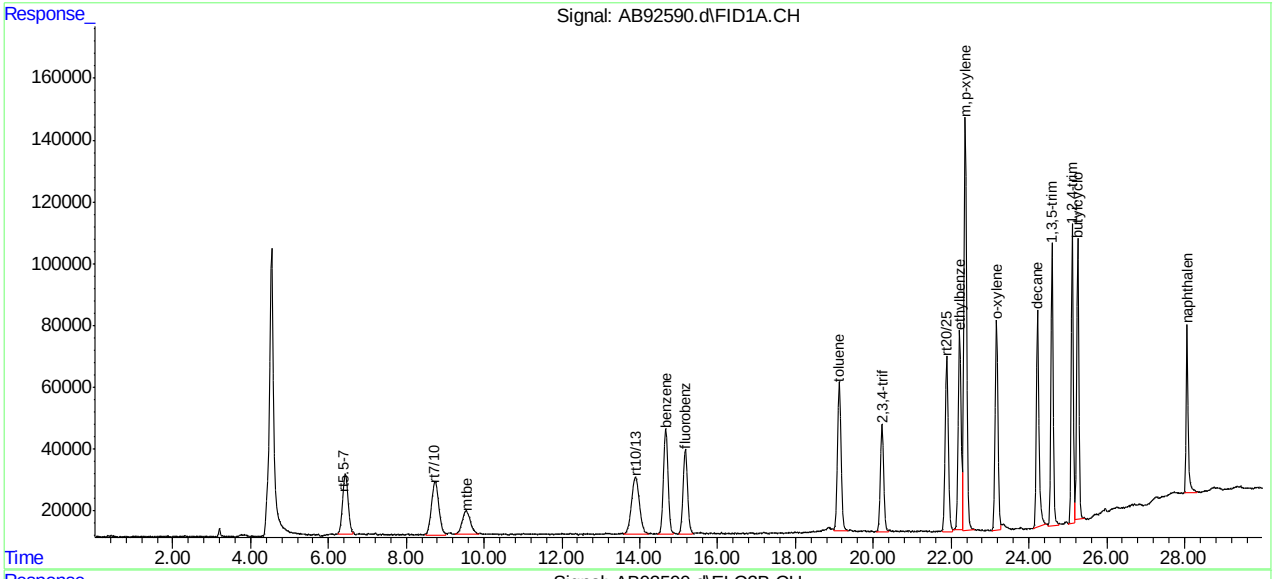
(f)=RT Delta > 1/2 Window (m)=manual int.

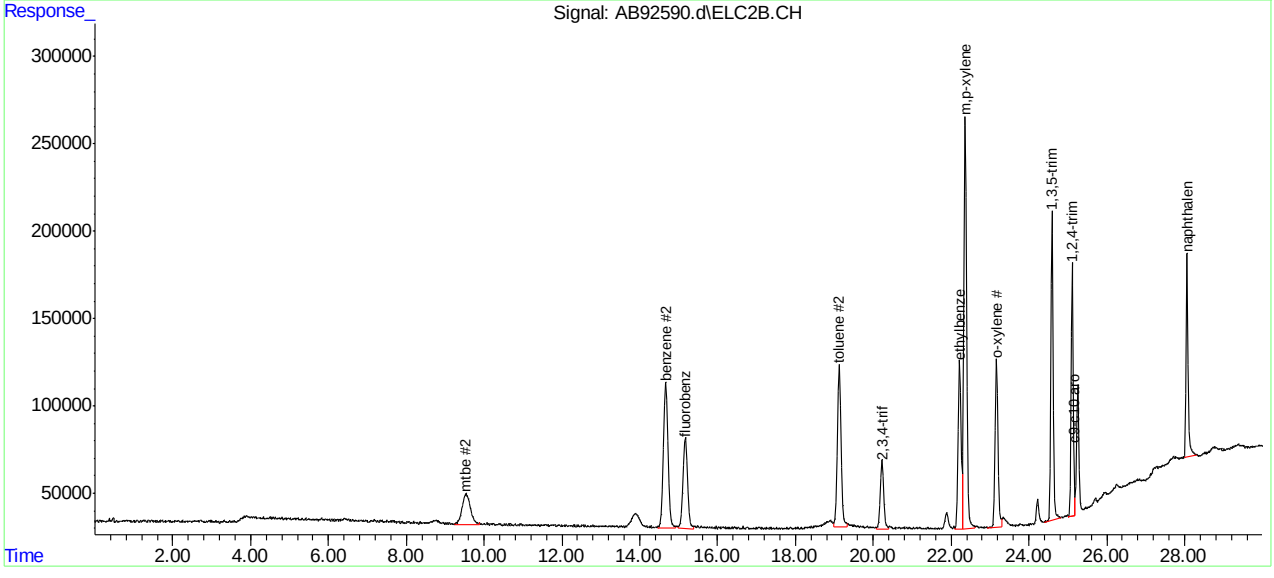
Quantitation Report (QT Reviewed)

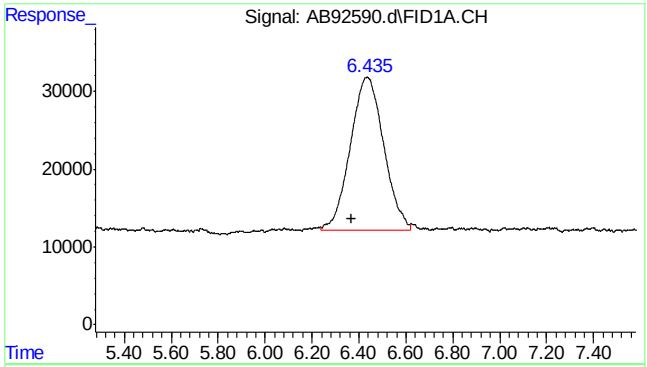
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92590.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 12:10:22
Operator : haleyn
Sample : ic5058-5
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 7 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:21:11 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

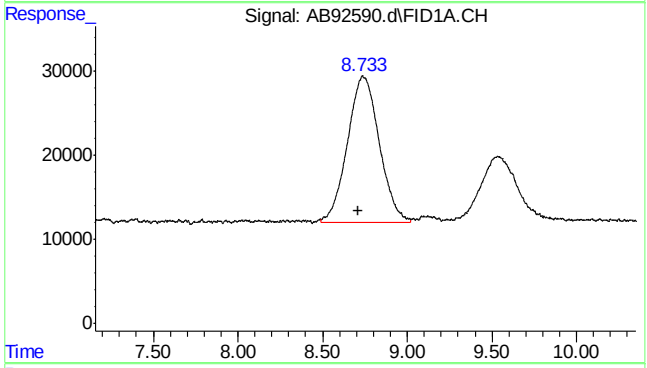




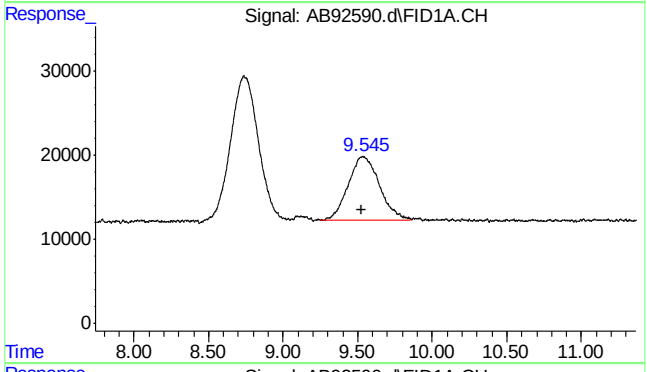

#1 rt5.5-7

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



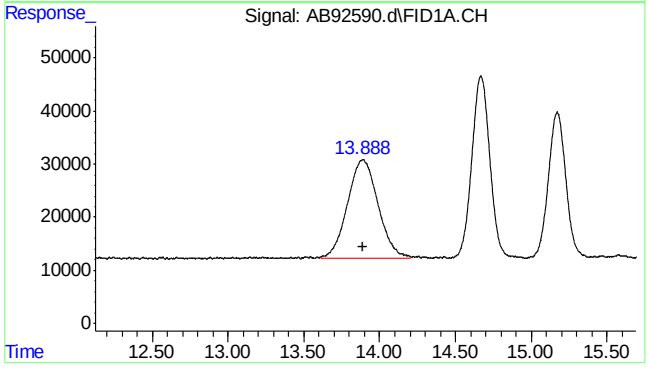

#2 rt7/10

R.T.: 8.710 min
Delta R.T.: 0.000 min
Response: 2254884
Conc: 5.44 ppb m




#3 mtbe

R.T.: 9.545 min
Delta R.T.: 0.014 min
Response: 1116791
Conc: 5.09 ppb m




#4 rt10/13

R.T.: 13.890 min
Delta R.T.: 0.000 min
Response: 2659091
Conc: 5.76 ppb m





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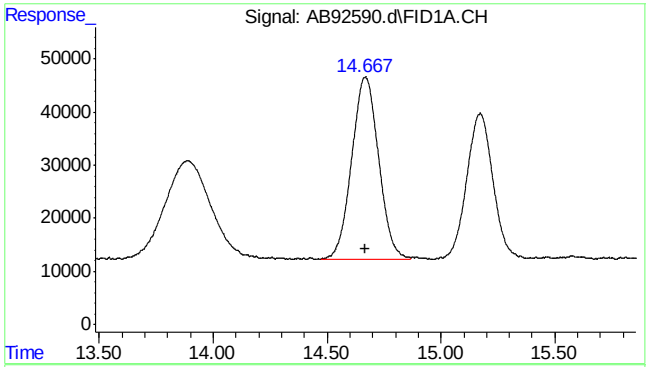
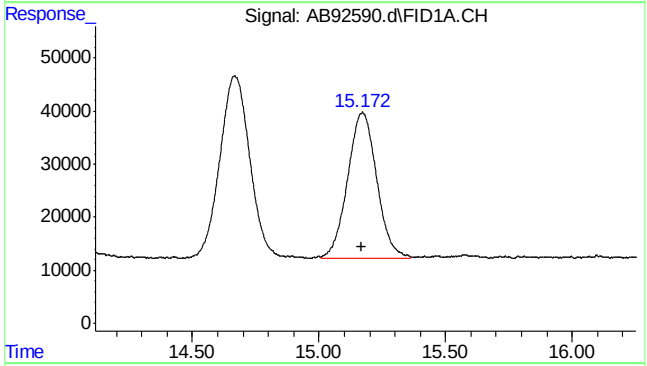


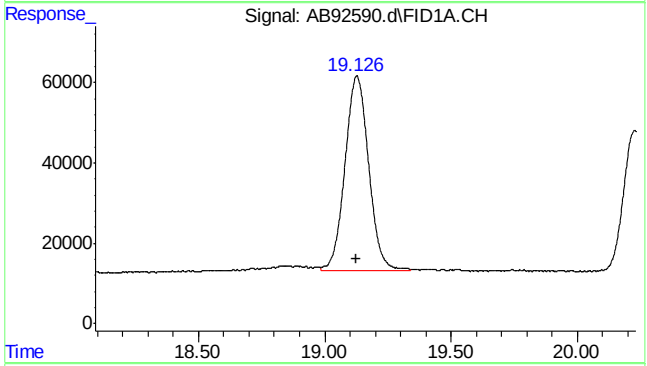

#5 benzene

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



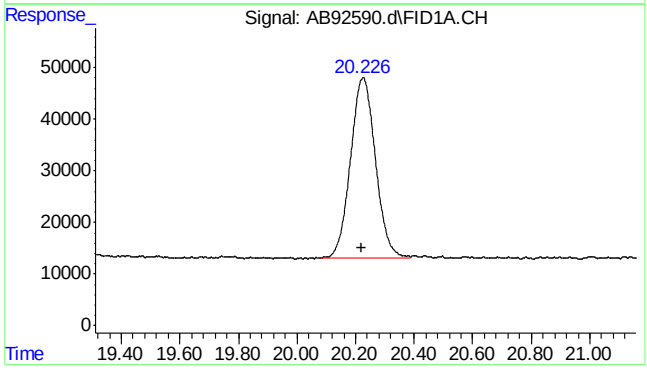

#6 fluorobenzene

R.T.: 15.172 min
Delta R.T.: 0.004 min
Response: 2200101
Conc: 5.01 ppb m




#8 toluene

R.T.: 19.126 min
Delta R.T.: 0.002 min
Response: 3128391
Conc: 5.14 ppb m




#9 2,3,4-trifluorotoluene

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





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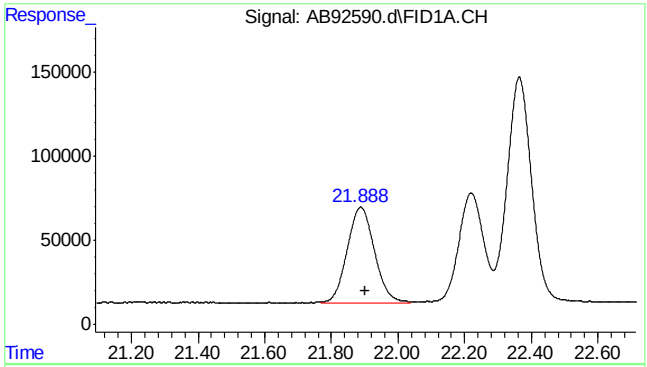
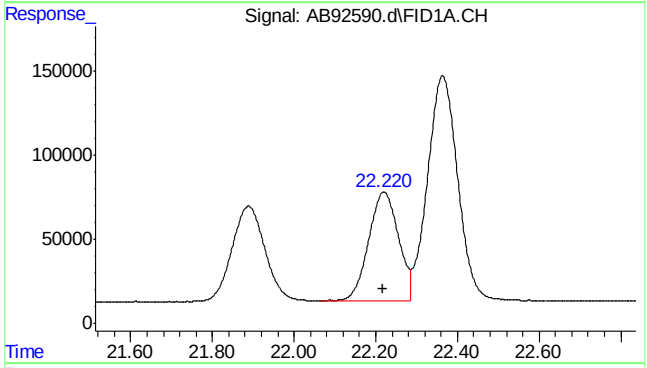


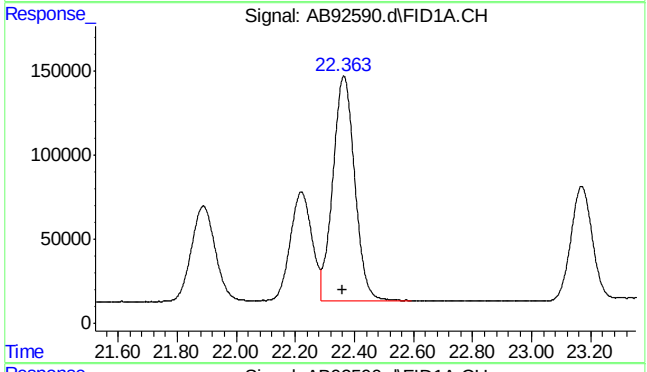

#11 rt20/25

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



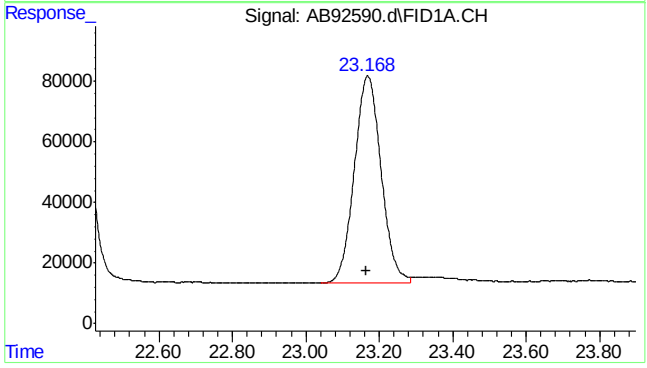

#13 ethylbenzene

```
      R.T.:   22.220 min
Delta R.T.:    0.003 min
  Response:   3304644
      Conc:   5.08 ppb m
```




#14 m,p-xylene

```
      R.T.:   22.364 min
Delta R.T.:    0.003 min
  Response:   6912378
      Conc:  10.24 ppb
```




#15 o-xylene

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

7.5.7

7



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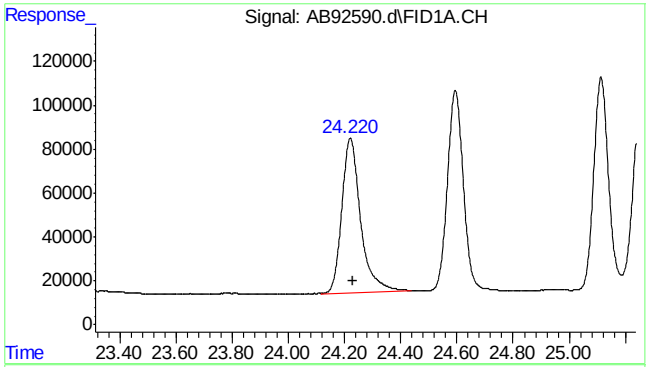
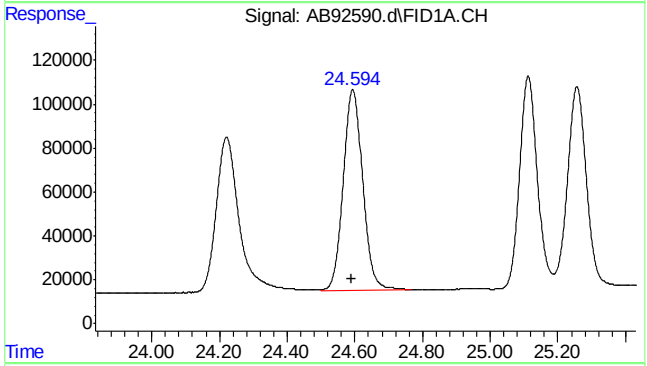


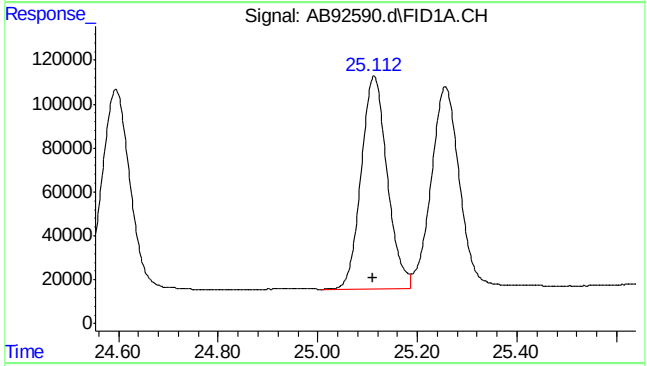

#16 decane

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



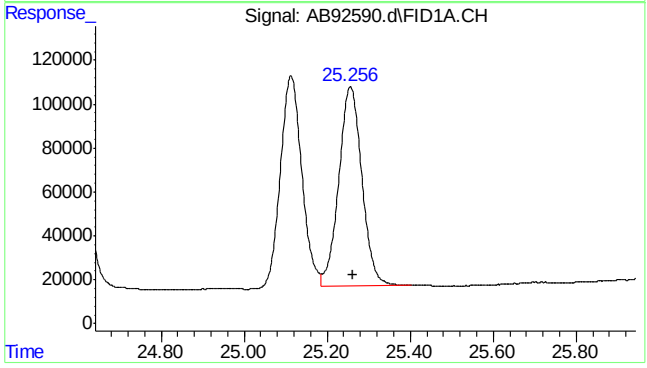

#17 1,3,5-trimethylbenzene

R.T.: 24.595 min
Delta R.T.: 0.003 min
Response: 3652478
Conc: 5.12 ppb




#18 1,2,4-trimethylbenzene

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 3525706
Conc: 5.20 ppb

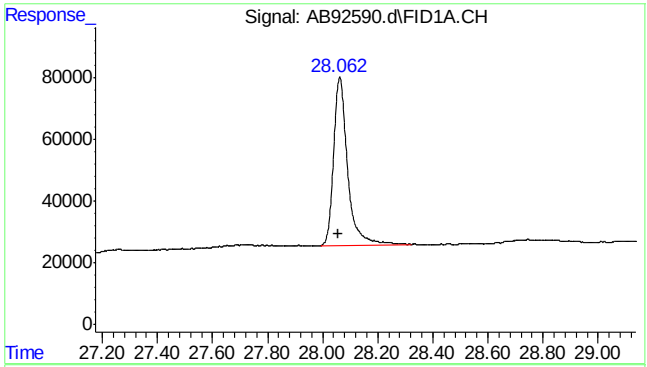



#19 butylcyclohexane

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

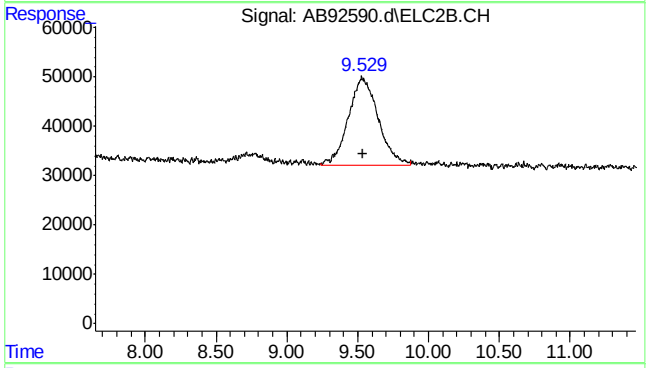


SGS ACCUTEST MC46487



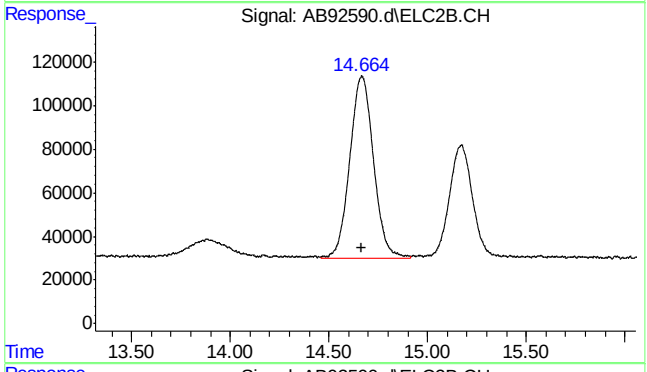

#20 naphthalene

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



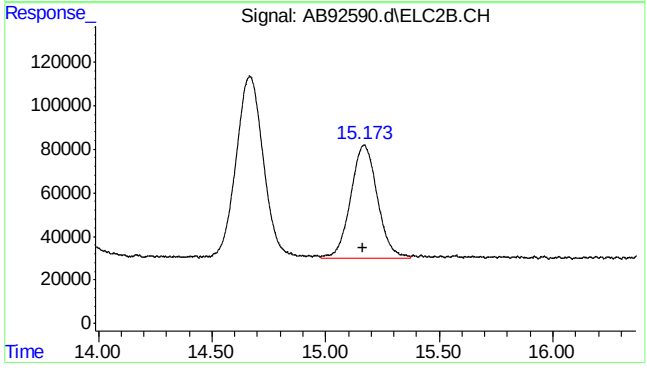

#23 mtbe #2

R.T.: 9.529 min
Delta R.T.: -0.007 min
Response: 2603992
Conc: 5.03 ppb m




#24 benzene #2

R.T.: 14.666 min
Delta R.T.: 0.000 min
Response: 7007038
Conc: 5.00 ppb




#25 fluorobenzene #2

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





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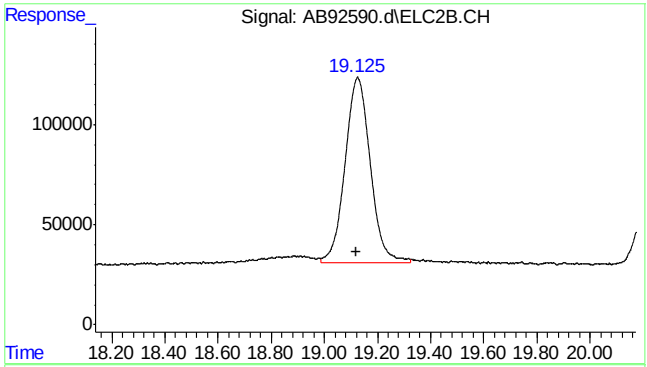
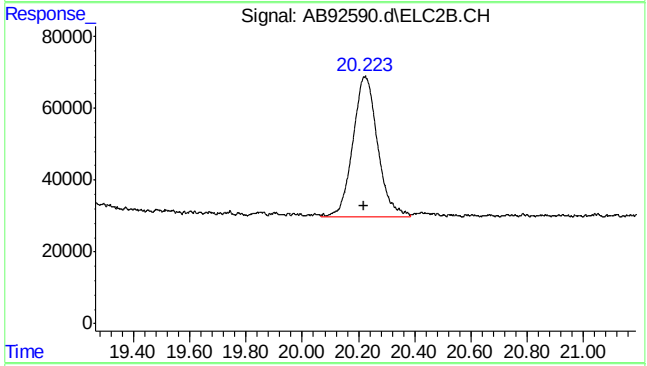


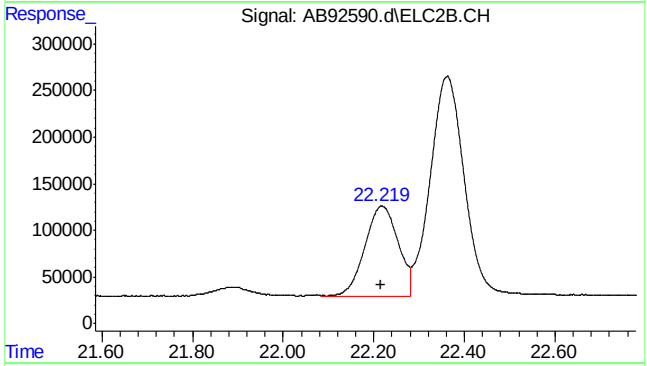

#26 toluene #2

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



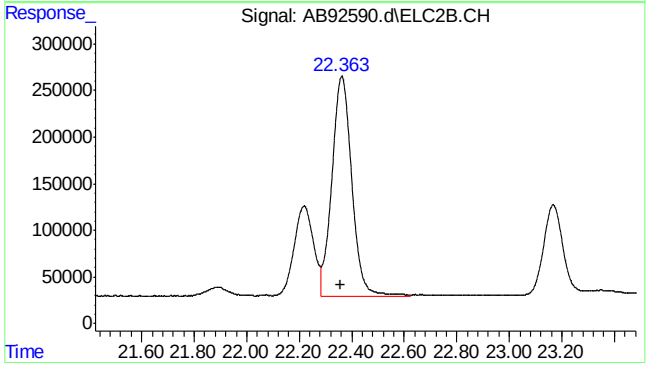

#27 2,3,4-trifluorotoluene #2

R.T.: 20.223 min
Delta R.T.: 0.005 min
Response: 2393092
Conc: 5.07 ppb m



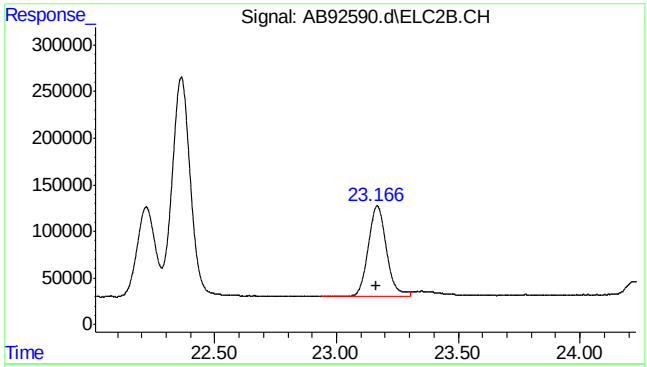

#28 ethylbenzene #2

R.T.: 22.219 min
Delta R.T.: 0.004 min
Response: 4988642
Conc: 5.00 ppb m



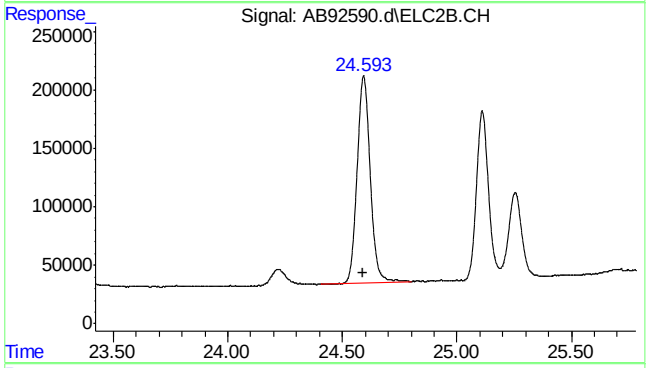

#29 m,p-xylene #2

R.T.: 22.362 min
Delta R.T.: 0.004 min
Response: 12375835
Conc: 10.15 ppb



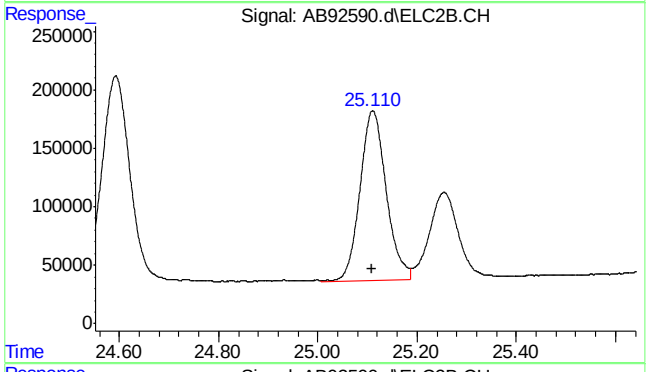

#30 o-xylene #2

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



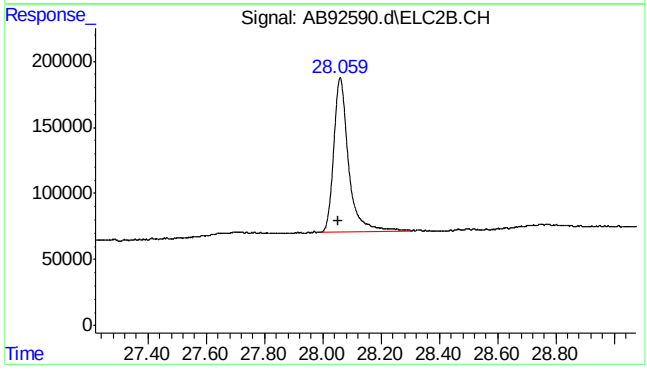

#31 1,3,5-trimethylbenzene #2

R.T.: 24.593 min
Delta R.T.: 0.003 min
Response: 7113412
Conc: 4.94 ppb



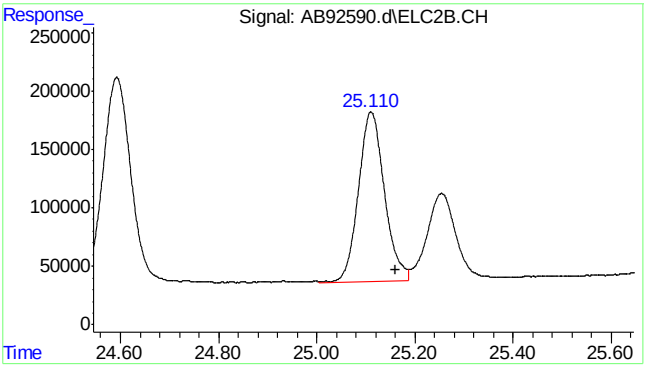

#32 1,2,4-trimethylbenzene #2

R.T.: 25.110 min
Delta R.T.: 0.002 min
Response: 5356131
Conc: 5.07 ppb m




#33 naphthalene #2

R.T.: 28.059 min
Delta R.T.: 0.005 min
Response: 4141853
Conc: 5.13 ppb m




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

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

7.5.7

7



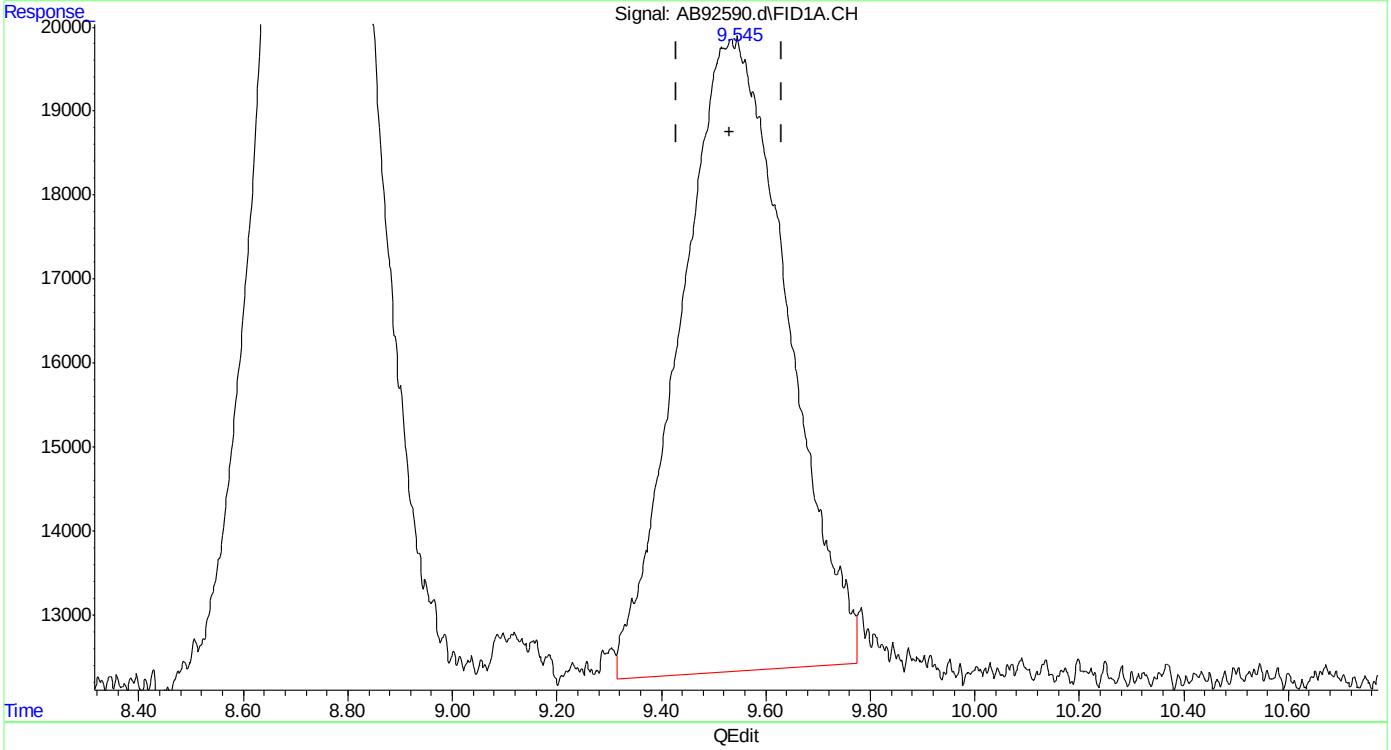
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.545min 4.876 ppb
response 1070624

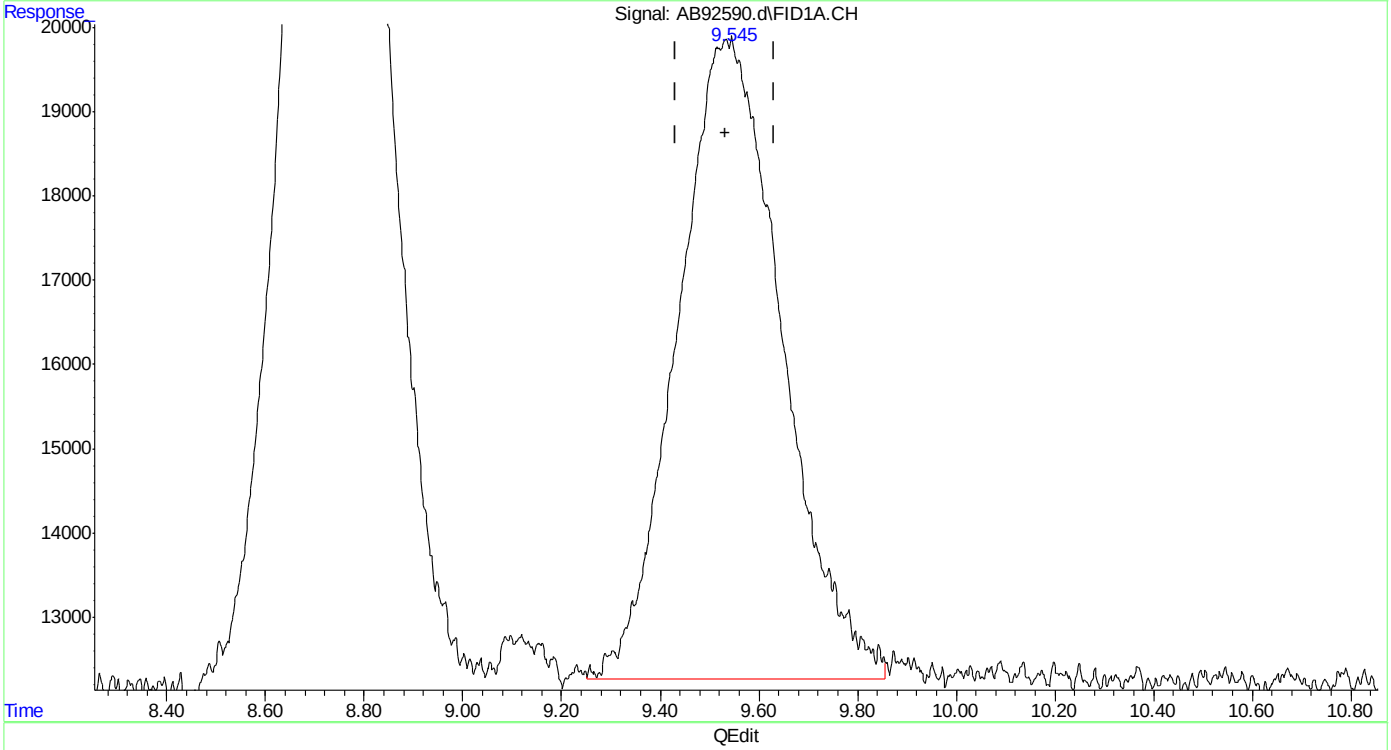
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:41:25 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.545min 5.086 ppb m
response 1116791

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



SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(6) fluorobenzene (s)
15.172min 4.976 ppb
response 2185883

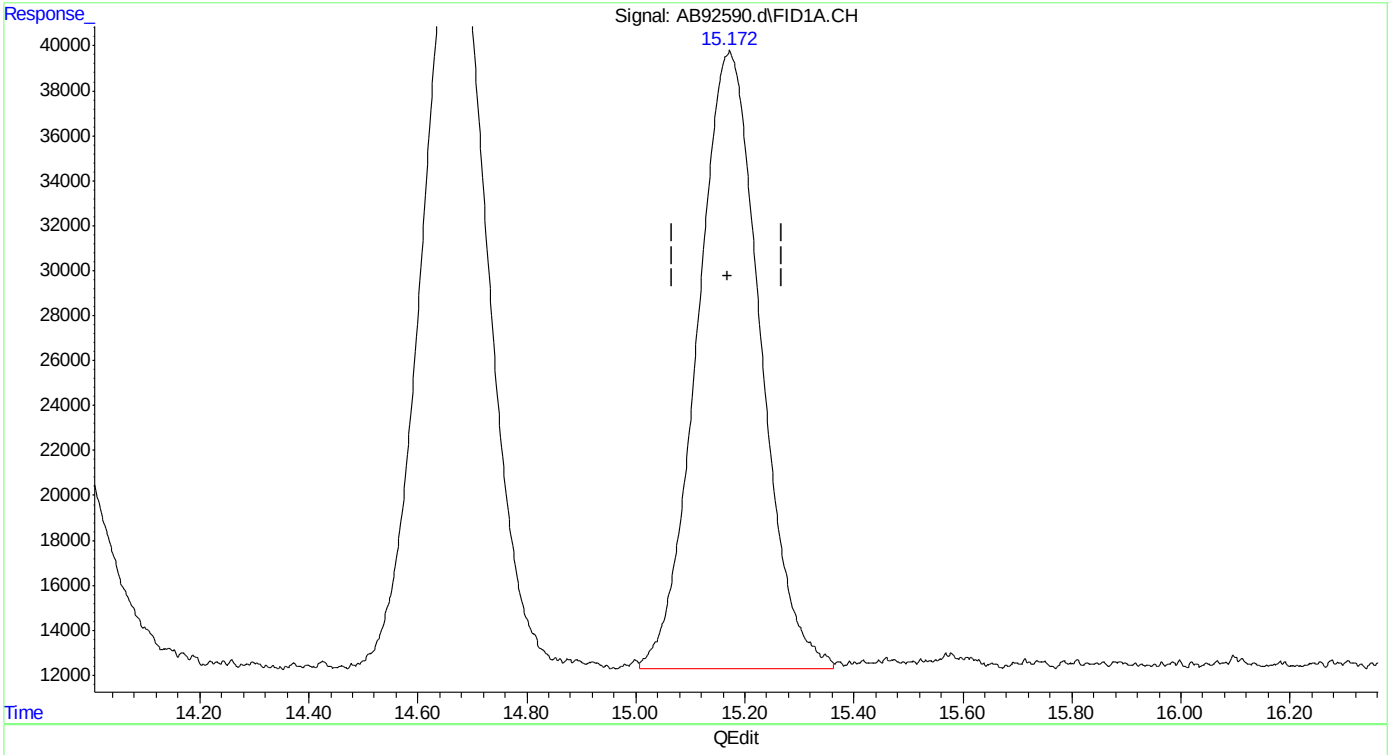
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)

15.172min 5.009 ppb m

response 2200101

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:42:08 2016



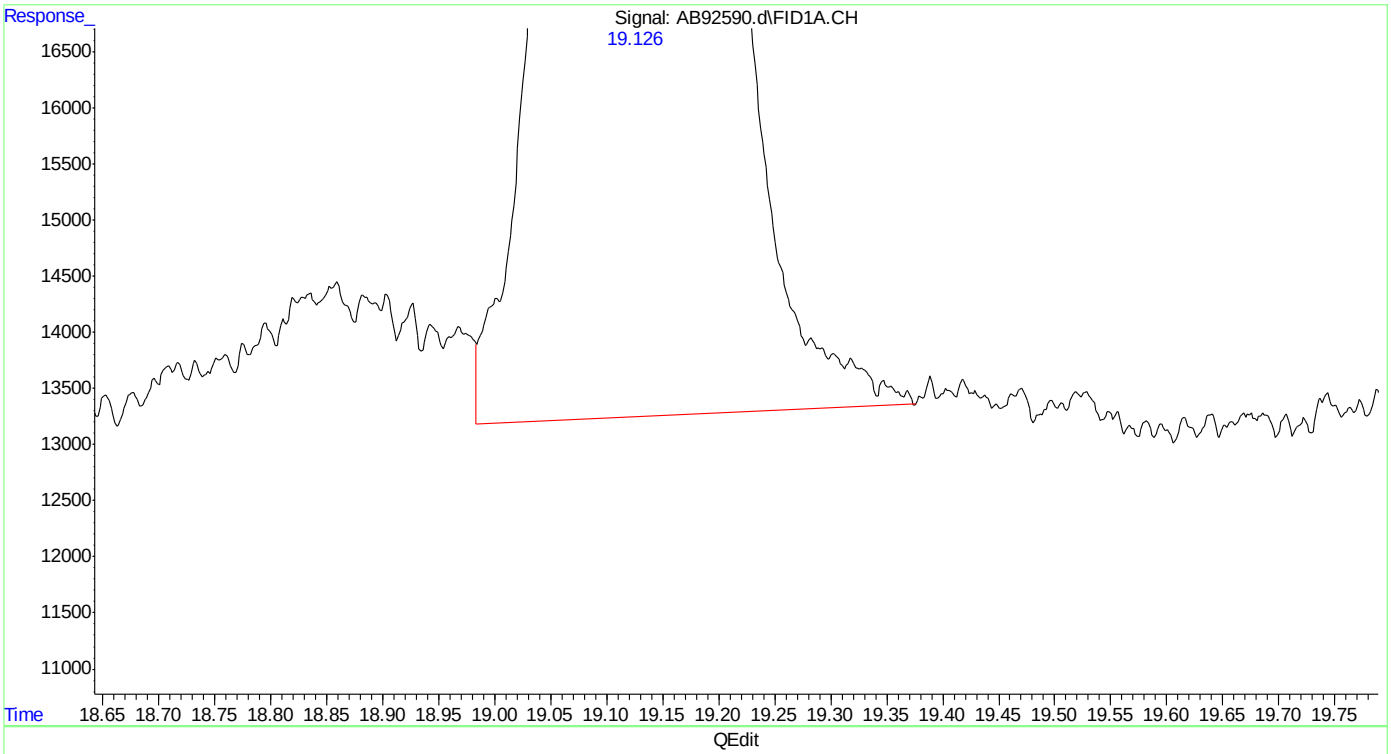
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.127min 5.170 ppb
response 3148368

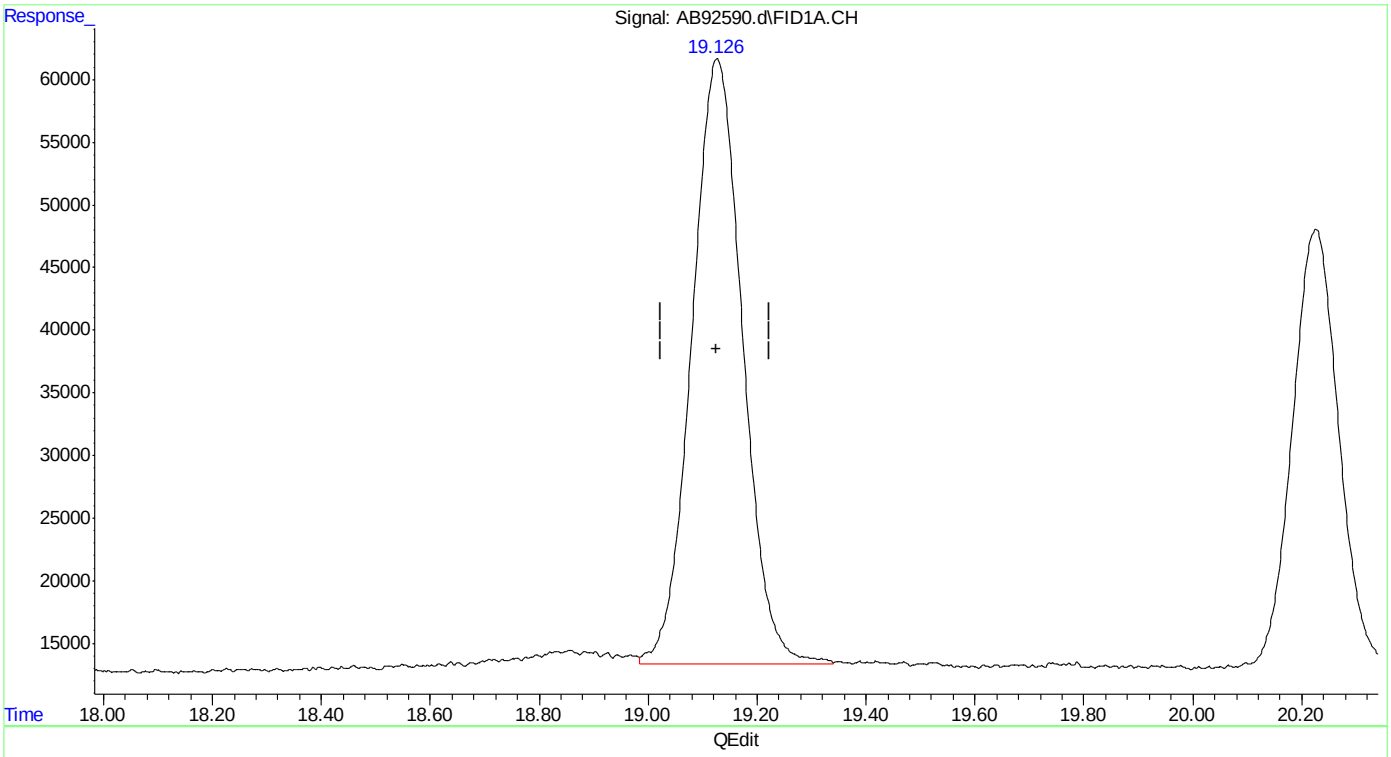
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:42:13 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene

19.126min 5.137 ppb m

response 3128391

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:42:20 2016



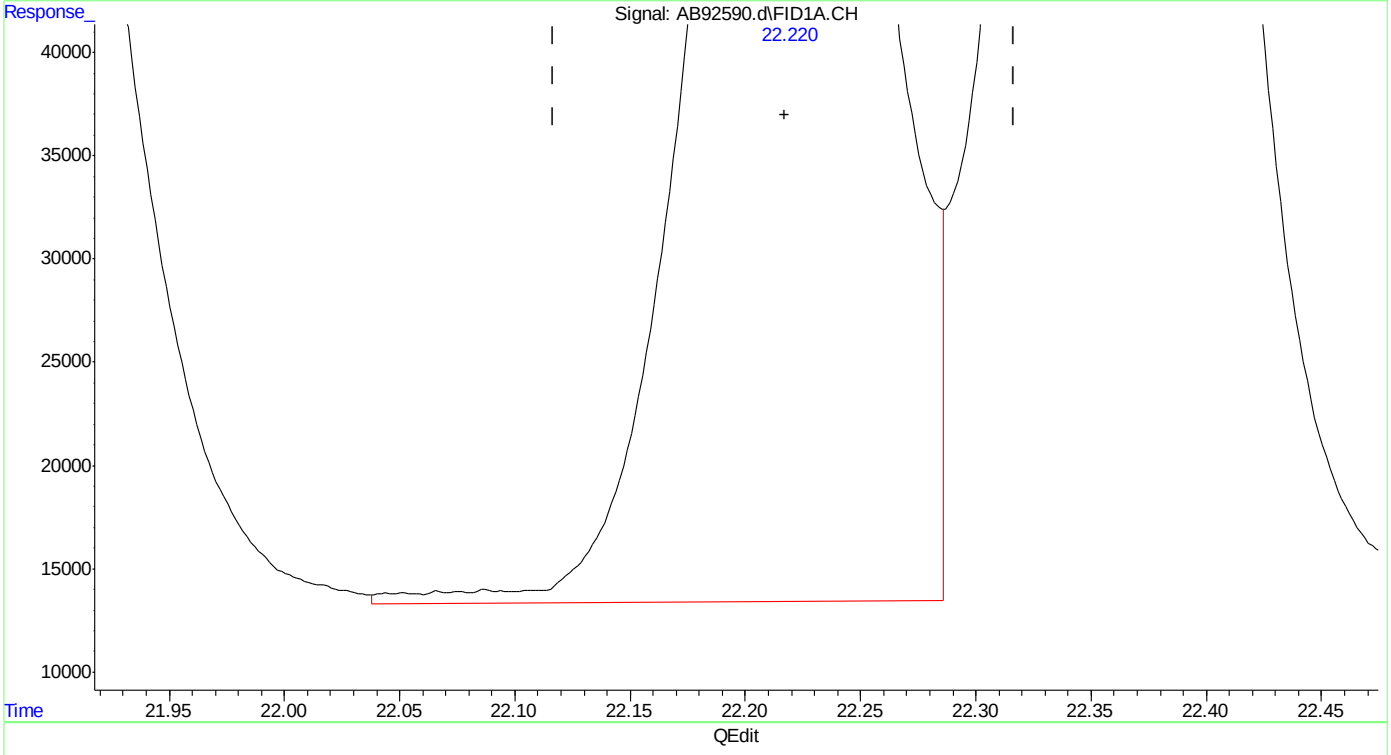
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.220min 5.137 ppb
response 3338824

(+) = Expected Retention Time



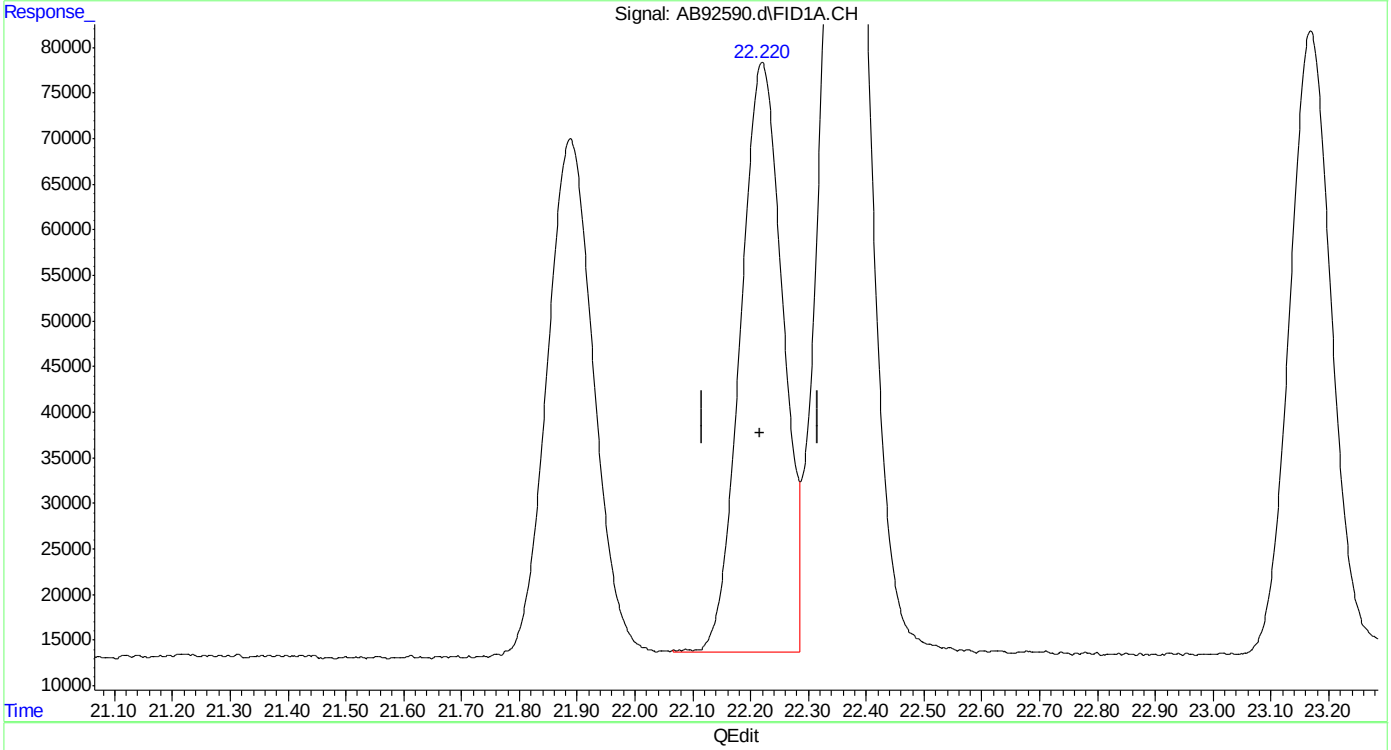
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.220min 5.084 ppb m
response 3304644

(+) = Expected Retention Time



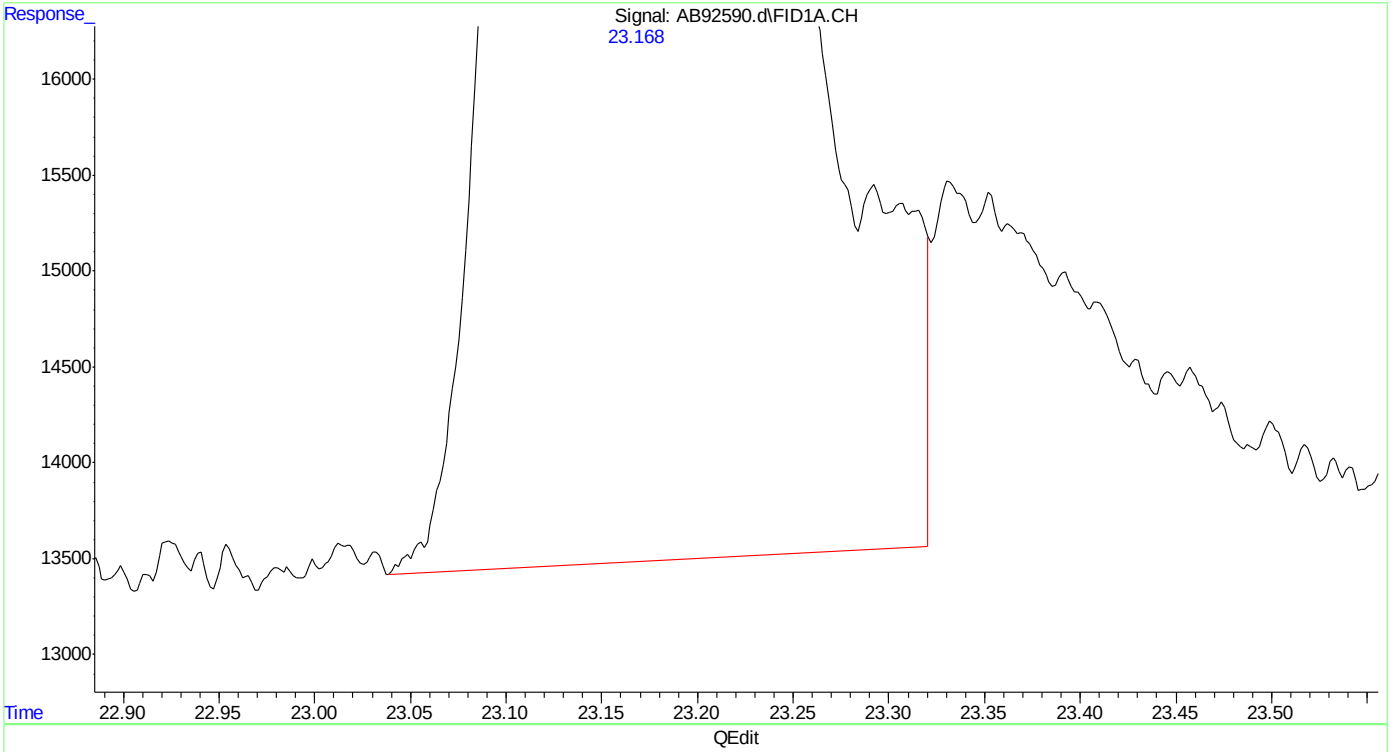
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.169min 5.170 ppb
response 3499460

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:43:30 2016



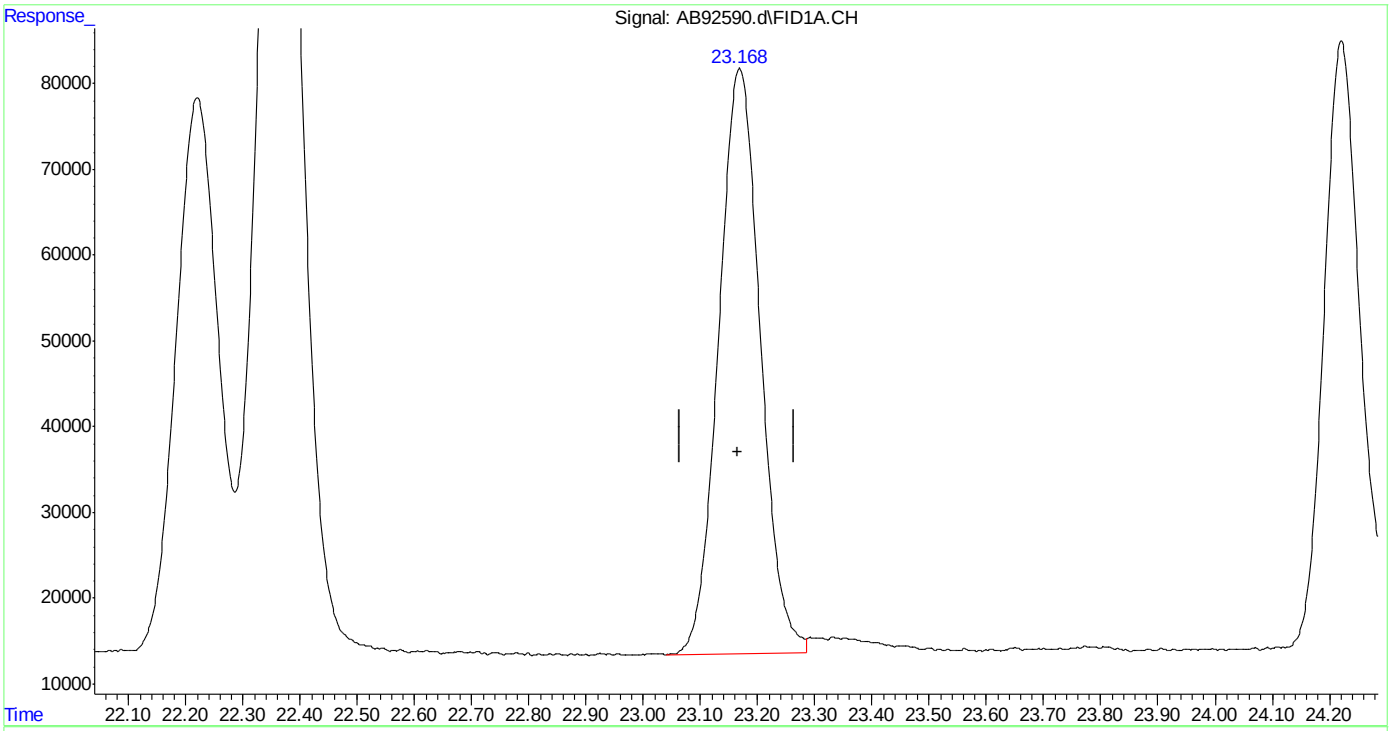
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.168min 5.112 ppb m
response 3460195

(+) = Expected Retention Time



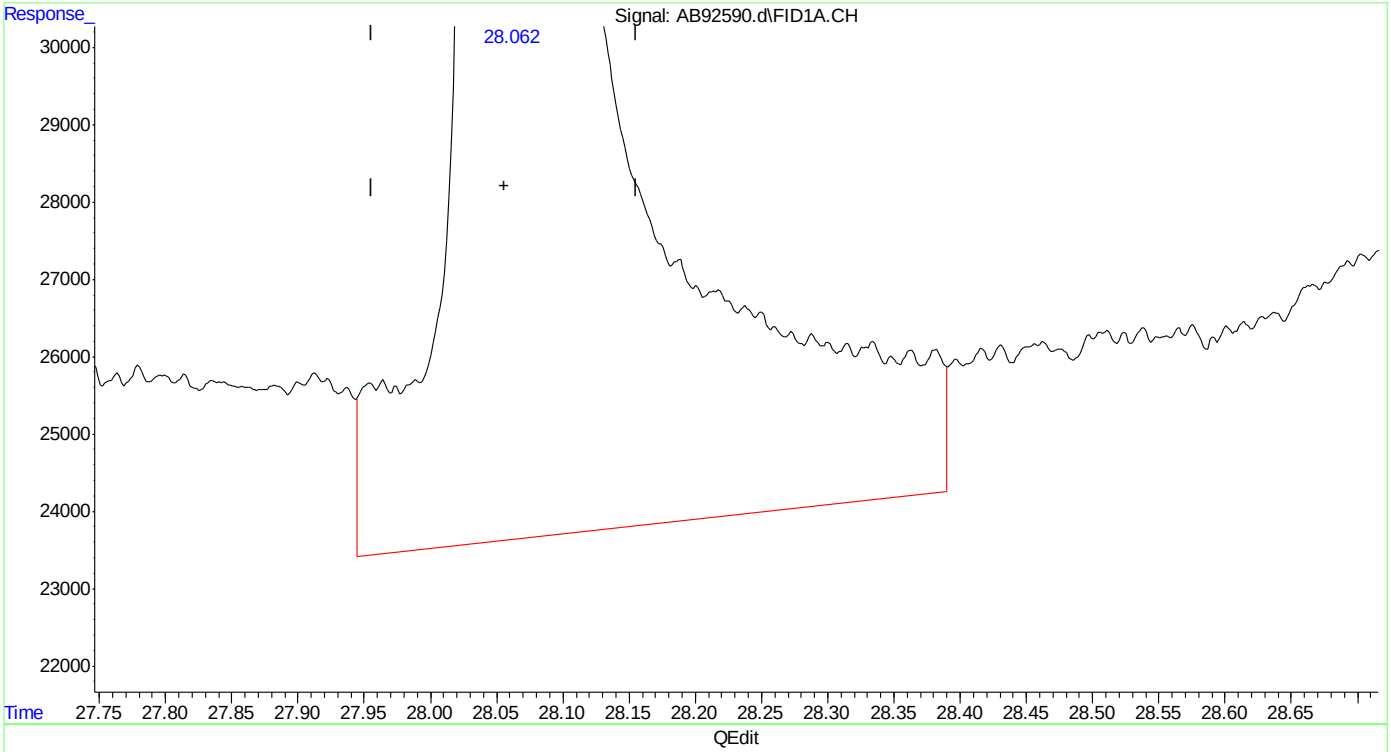
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.062min 6.689 ppb
response 2454121

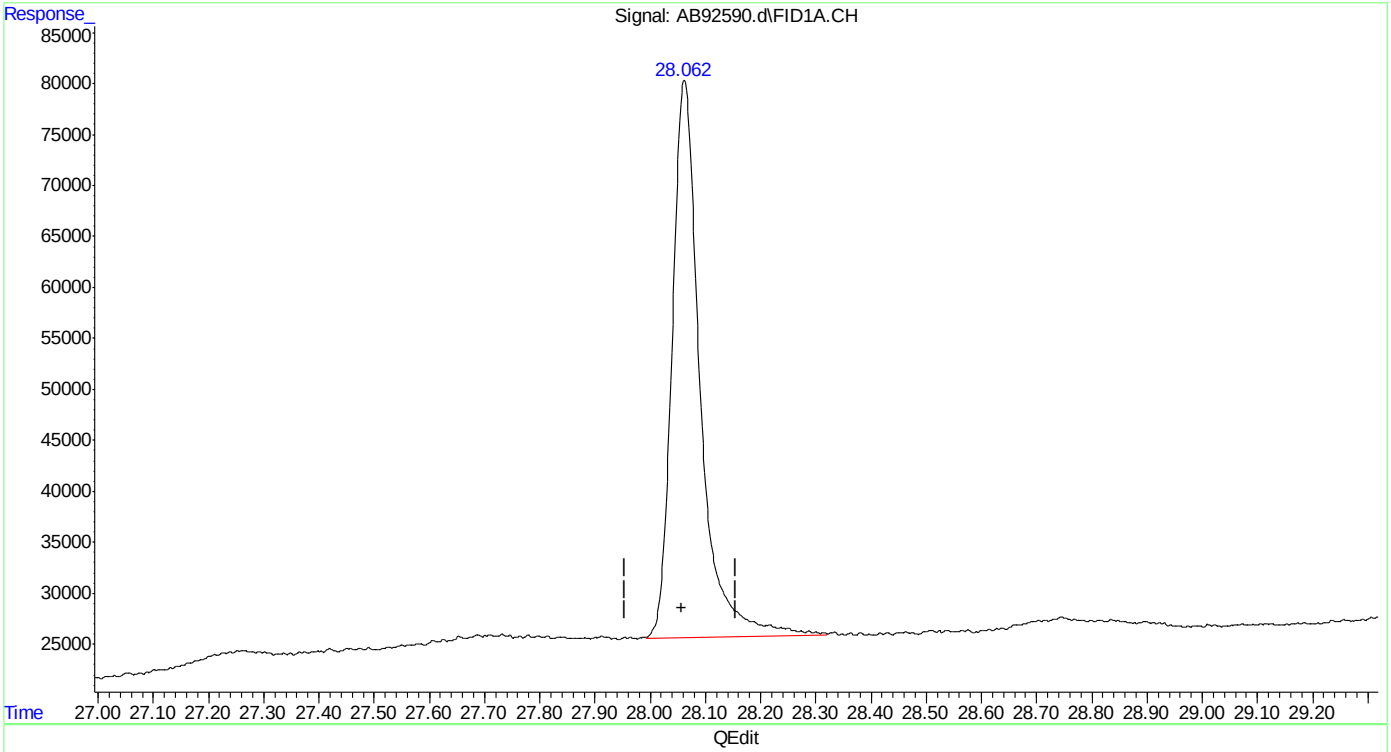
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.062min 5.278 ppb m
response 1936540

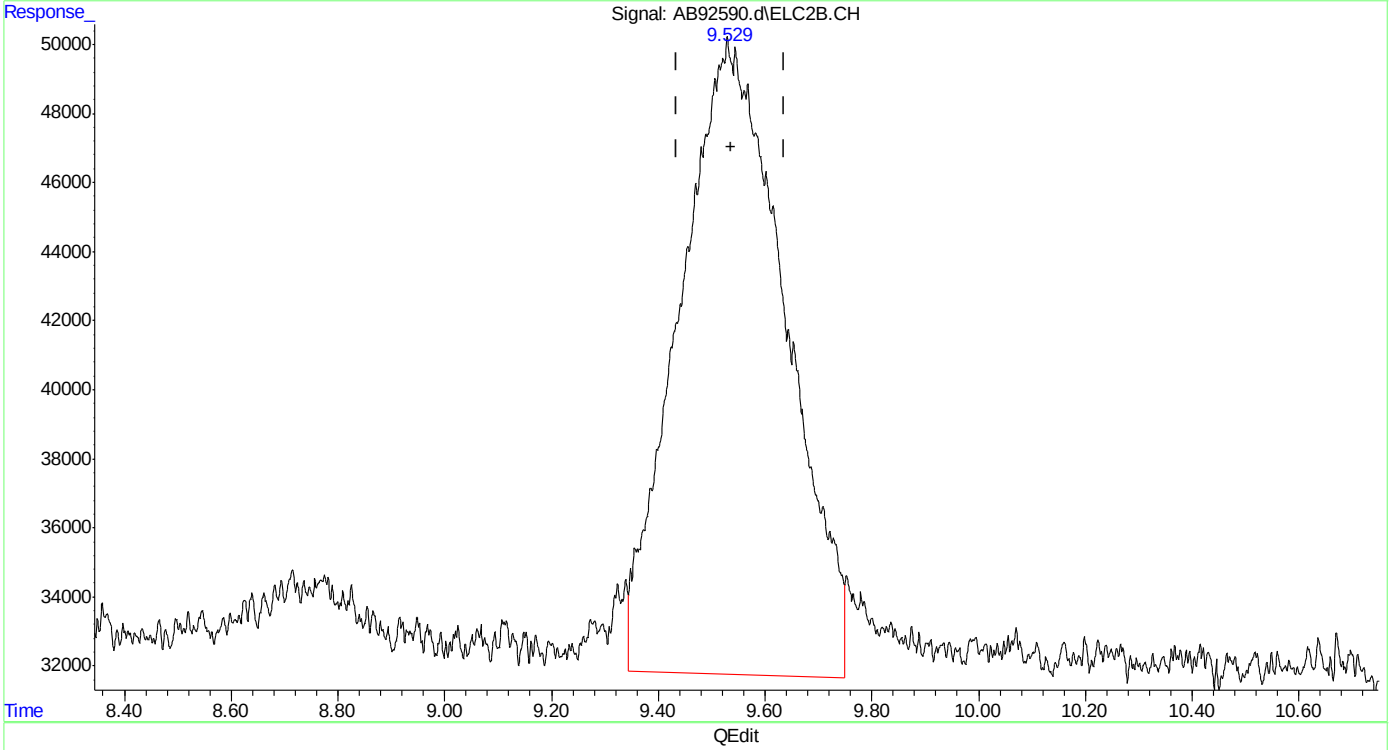
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.530min 4.904 ppb
response 2540172

(+) = Expected Retention Time



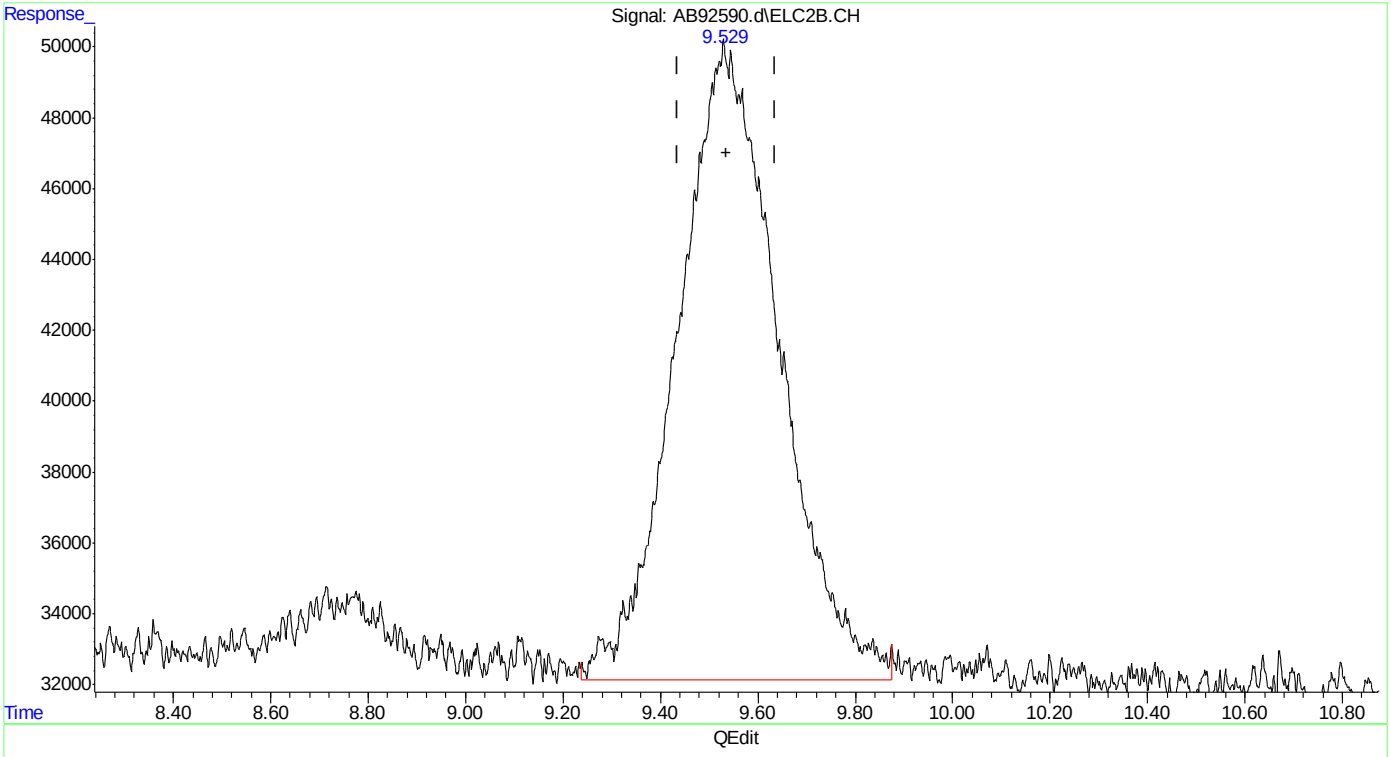
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.529min 5.027 ppb m
response 2603992

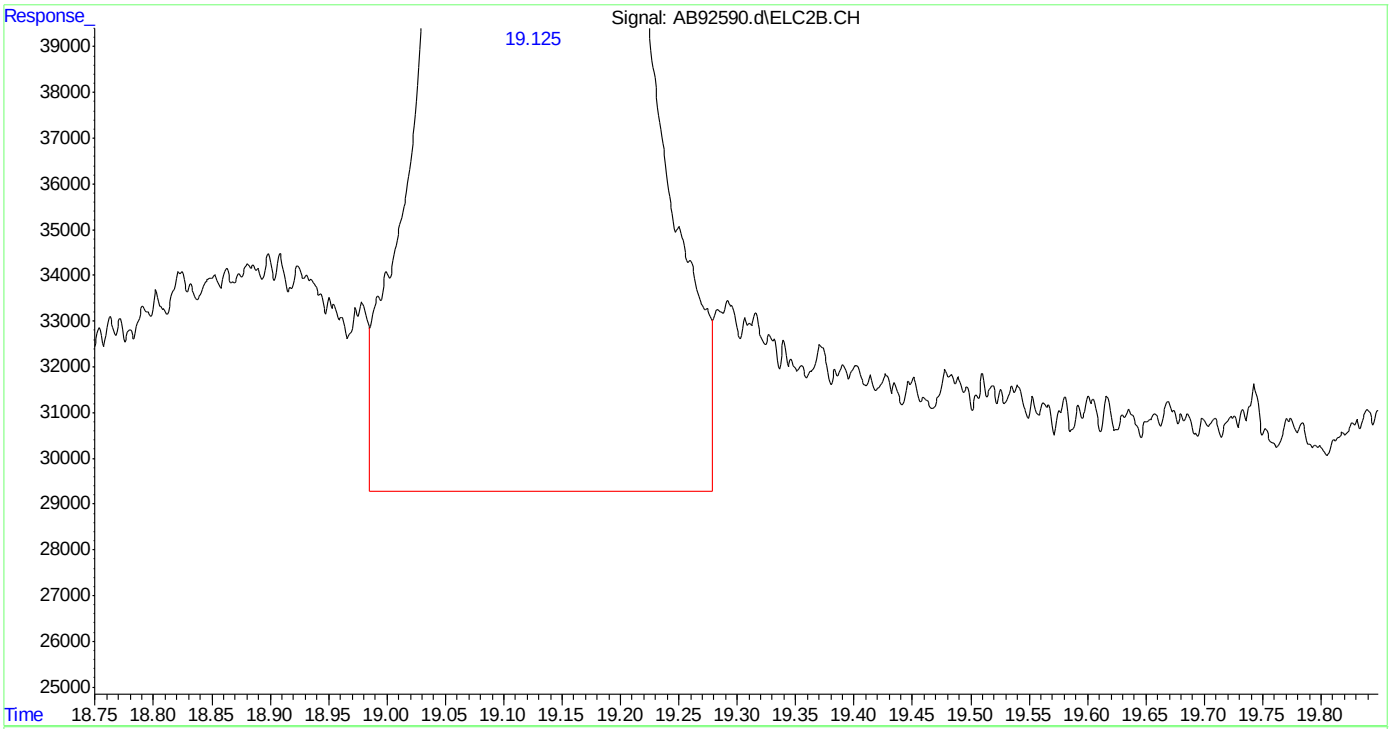
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.126min 5.256 ppb
response 6373988

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:18 2016  Page: 1

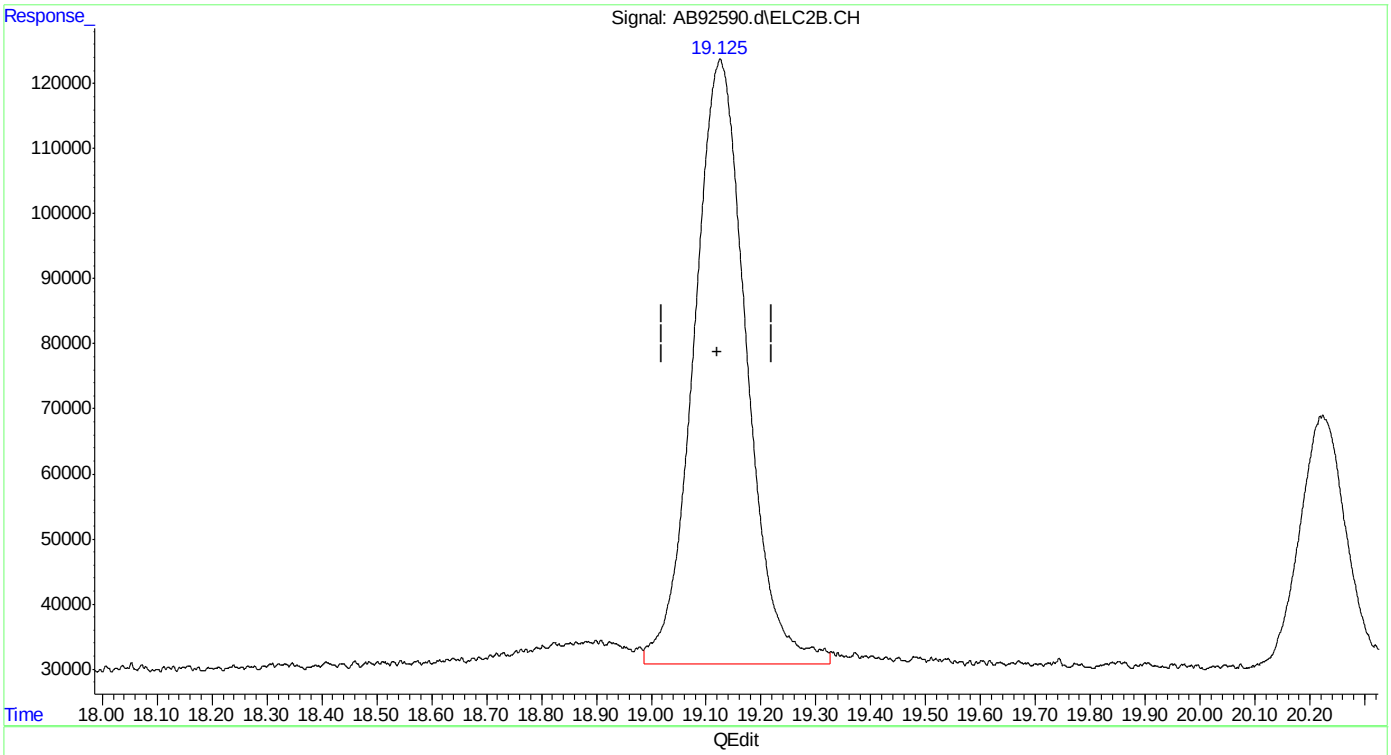

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.125min 5.082 ppb m
response 6163190

(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.260 ppb
response 2482180

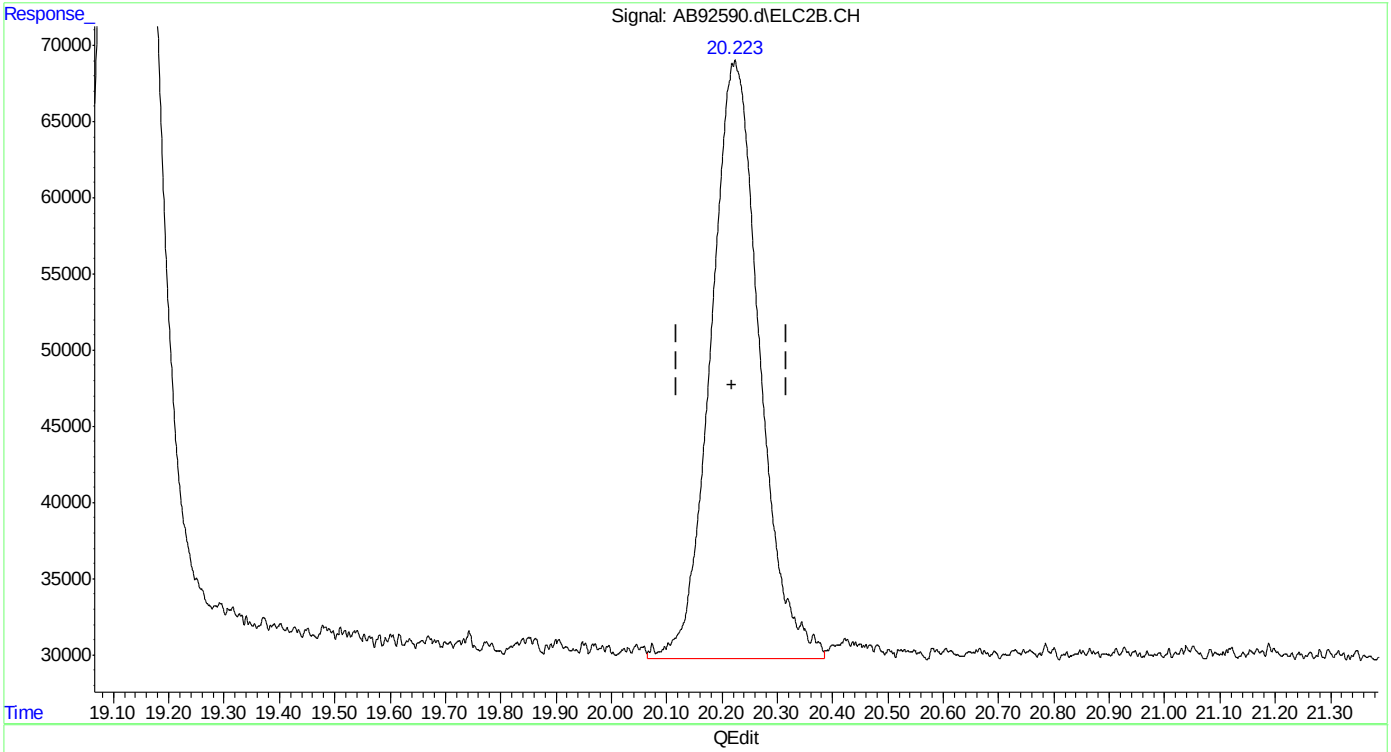
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:45:46 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.223min 5.071 ppb m
response 2393092

(+) = Expected Retention Time

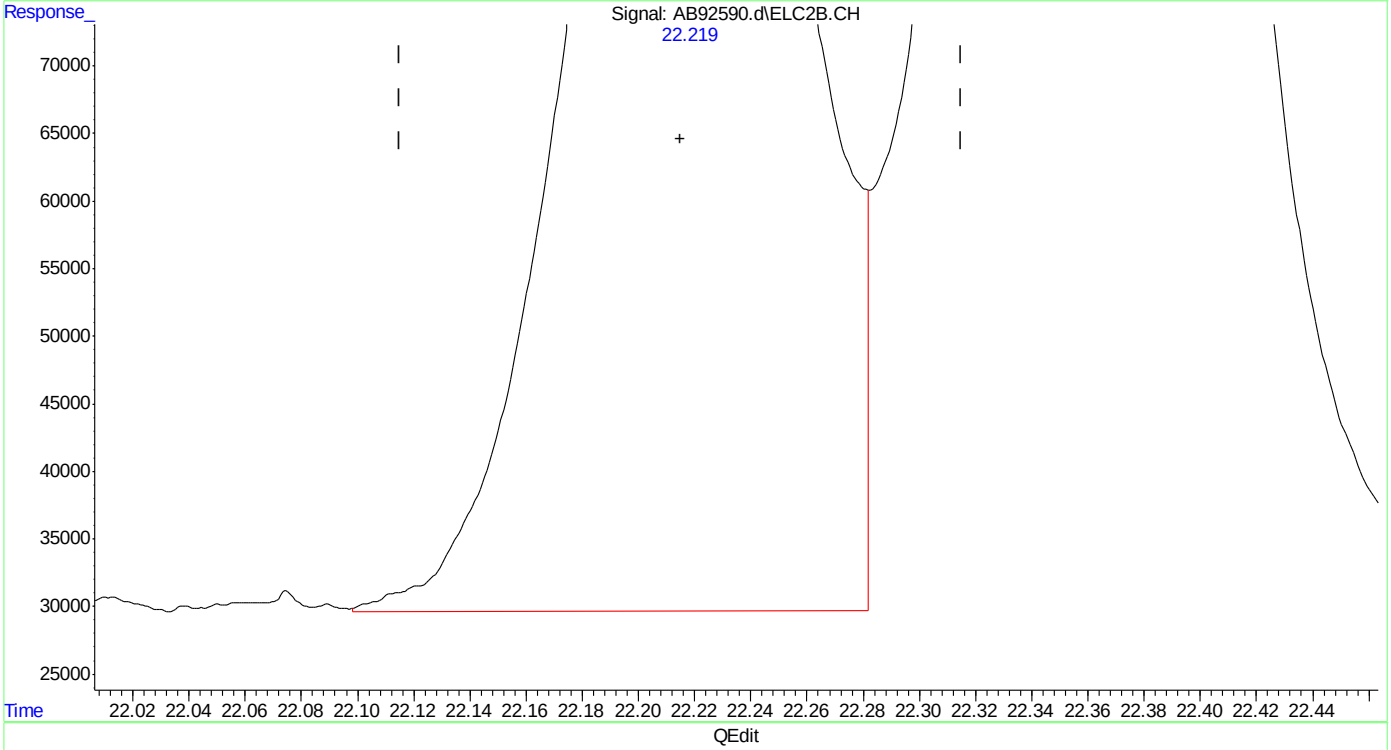

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2
22.218min 4.940 ppb
response 4932404

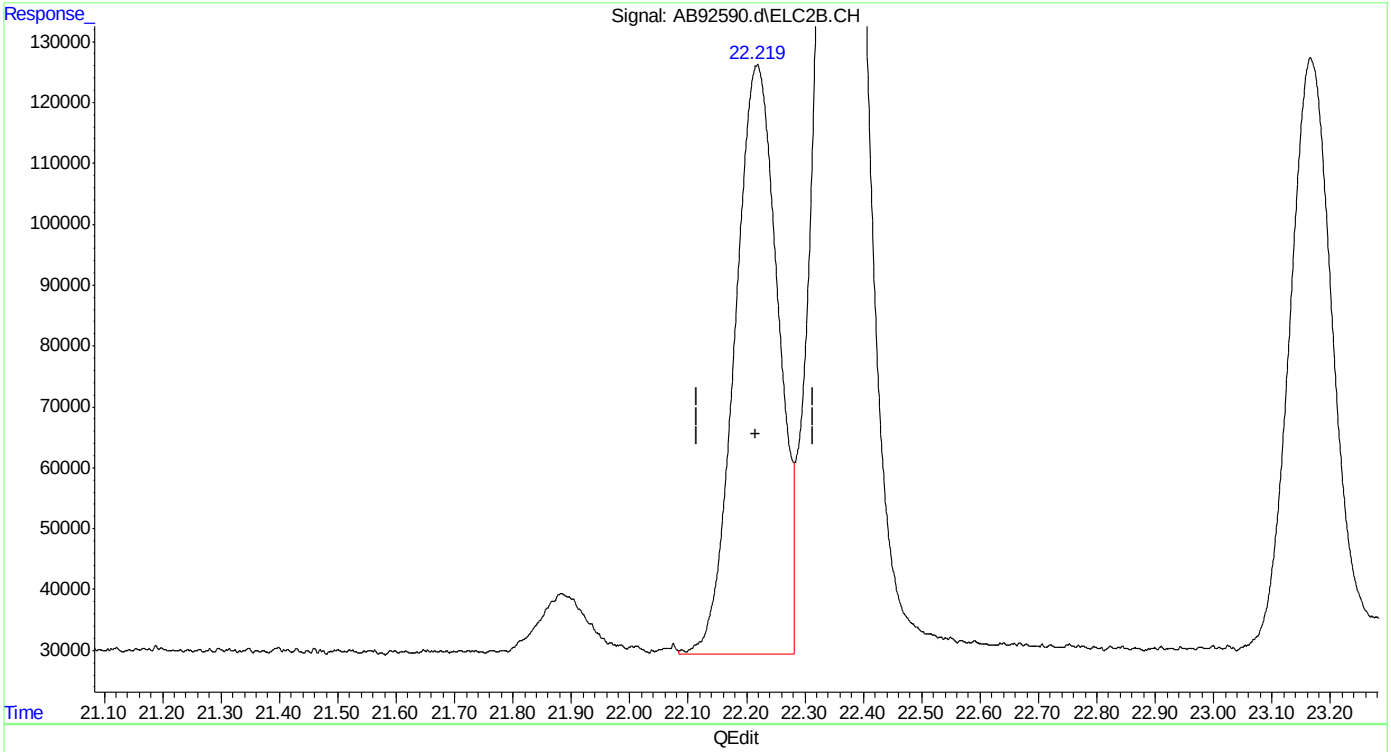
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:00 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2

22.219min 4.996 ppb m

response 4988642

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 12:46:11 2016



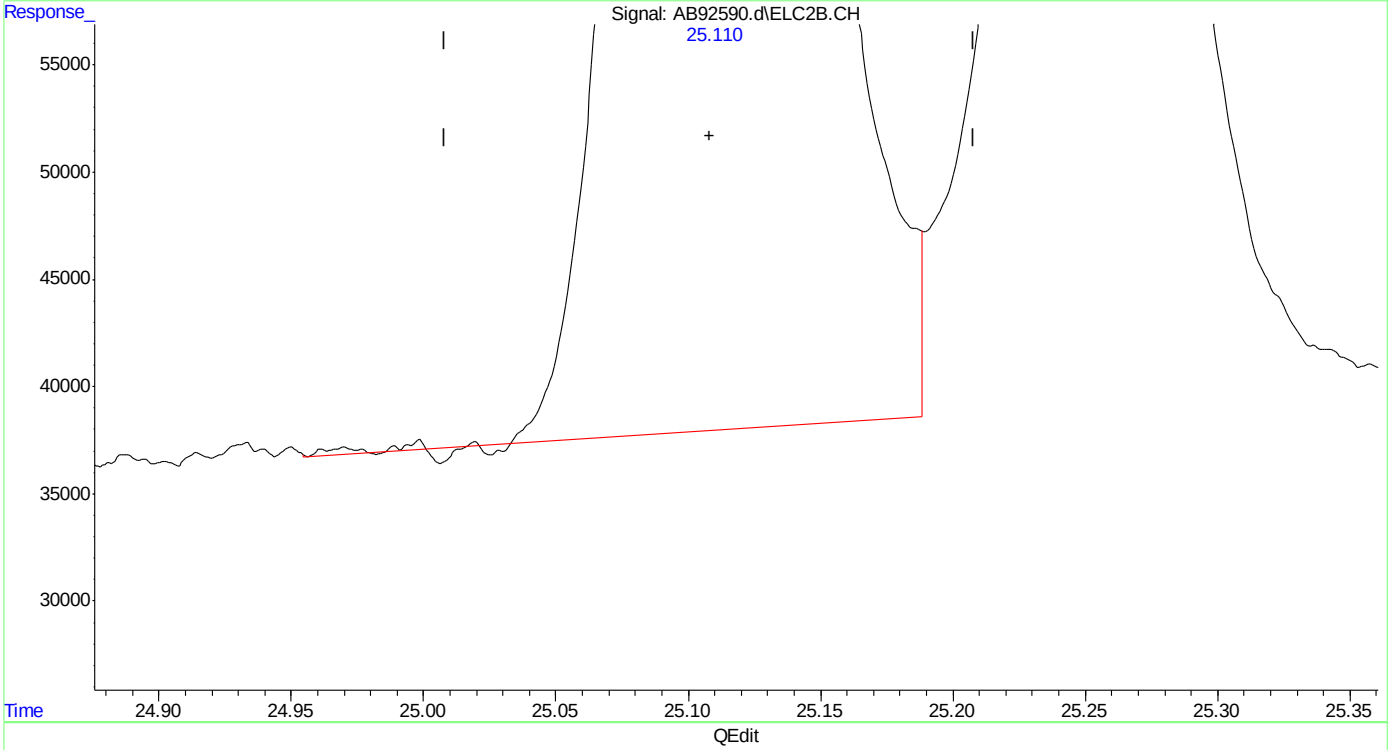
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.111min 4.970 ppb
response 5245029

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:24 2016



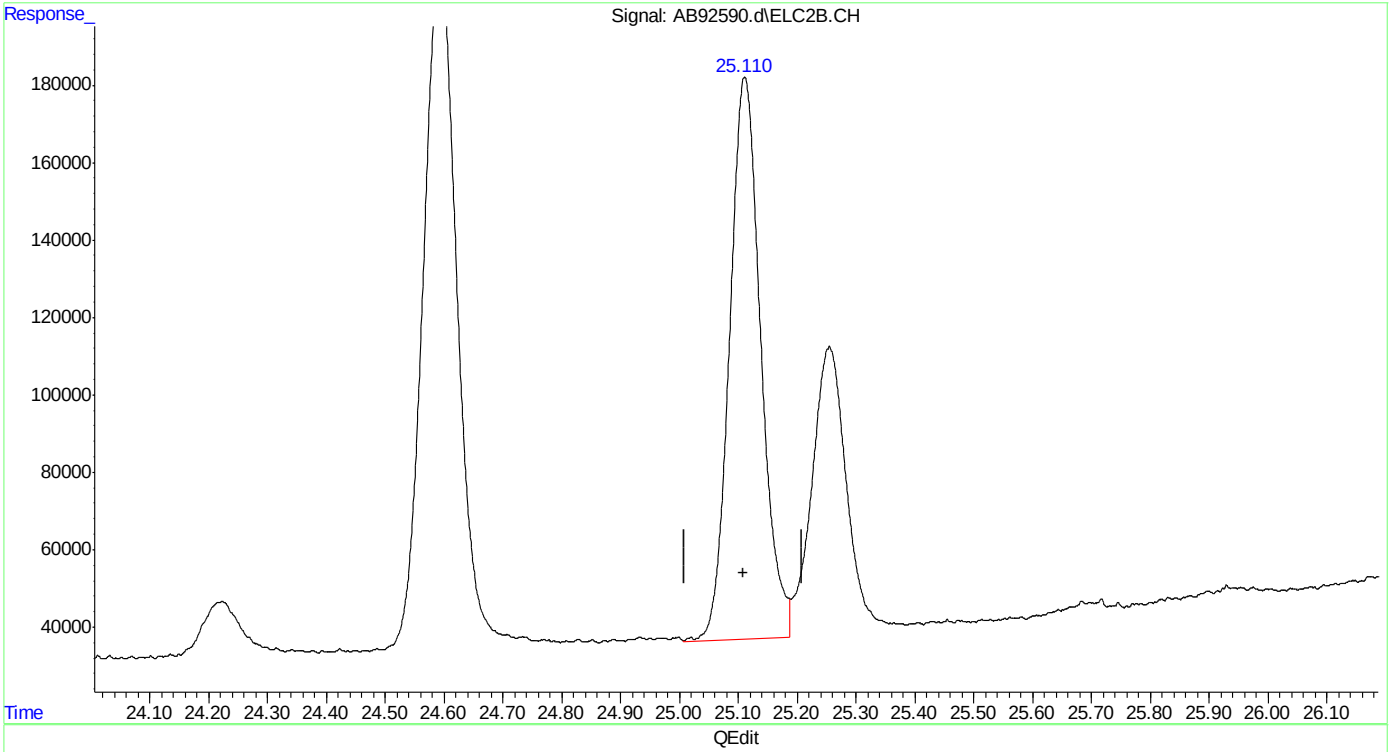
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.110min 5.075 ppb m
response 5356131

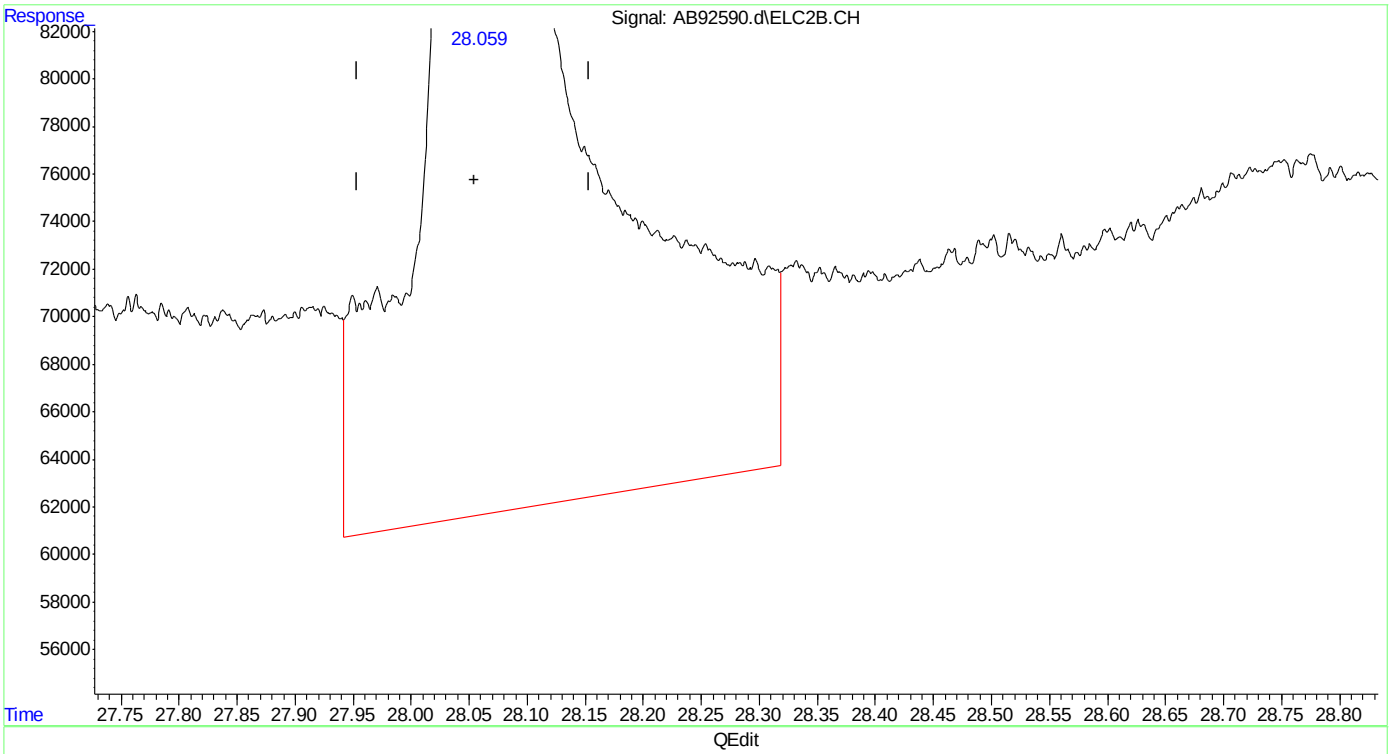
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:31 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.060min 7.602 ppb
response 6135012

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 12:46:35 2016



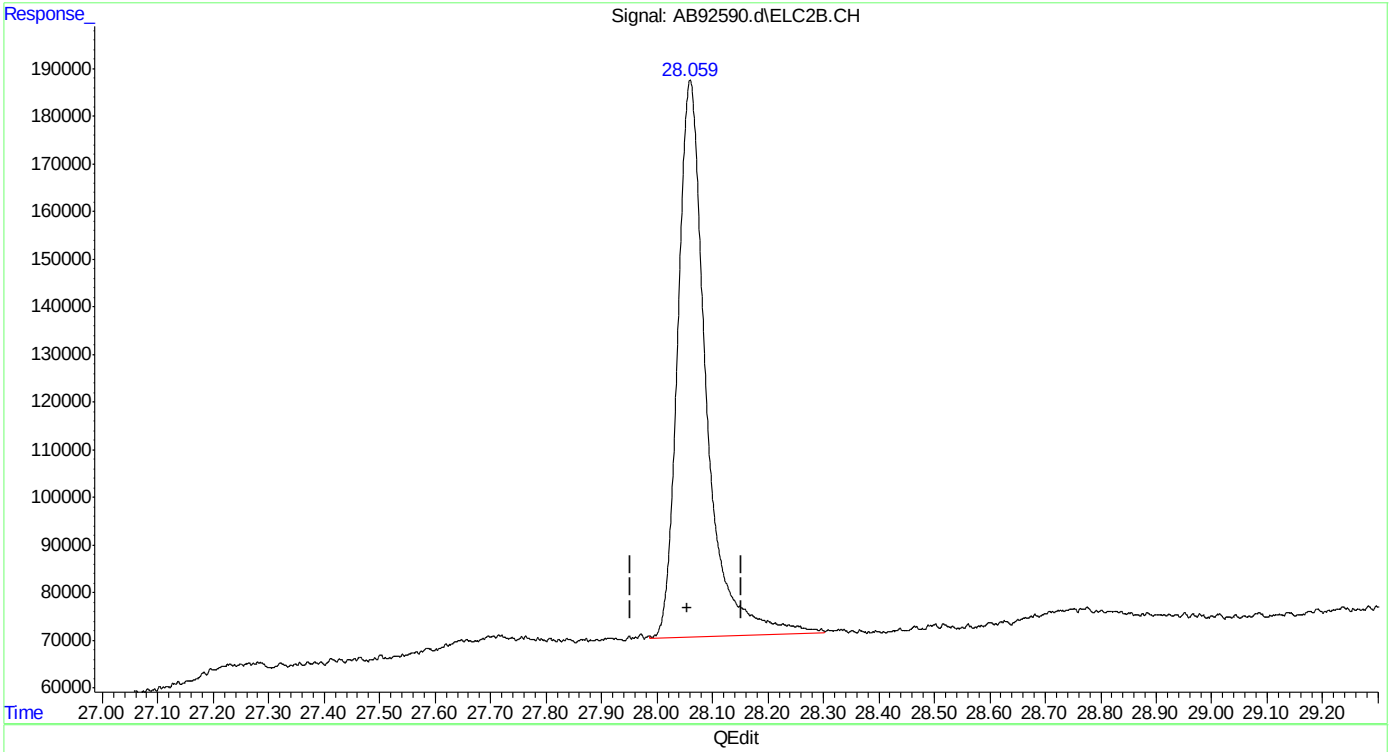
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 12:40:32 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:12:52 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.059min 5.178 ppb m
response 4179259

(+) = Expected Retention Time



SGS ACCUTEST MC46487

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

Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 6) s fluorobenzene | 15.165 | 882607 | 2.008 | ppb | m |
| Spiked Amount 50.000 | | Recovery = | 4.02% | | |
| 9) s 2,3,4-trifluorotoluene | 20.228 | 858302 | 2.084 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 4.17% | | |
| 25) s fluorobenzene #2 | 15.167 | 1721246 | 1.968 | ppb | m |
| Spiked Amount 50.000 | | Recovery = | 3.94% | | |
| 27) s 2,3,4-trifluorotoluen... | 20.218 | 995138 | 2.099 | ppb | m |
| Spiked Amount 50.000 | | Recovery = | 4.20% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.370 | 782177 | 2.108 | ppb | m |
| 2) h rt7/10 | 8.710 | 895663 | 2.098 | ppb | m |
| 3) mtbe | 9.518 | 440739 | 1.996 | ppb | m |
| 4) h rt10/13 | 13.890 | 1010297 | 2.083 | ppb | m |
| 5) benzene | 14.667 | 1091864 | 1.956 | ppb | m |
| 8) toluene | 19.129 | 1201255 | 1.955 | ppb | m |
| 11) h rt20/25 | 21.900 | 1295530 | 2.108 | ppb | m |
| 13) ethylbenzene | 22.223 | 1269420 | 1.942 | ppb | m |
| 14) m,p-xylene | 22.365 | 2661036 | 3.910 | ppb | m |
| 15) o-xylene | 23.170 | 1342437 | 1.969 | ppb | m |
| 16) h decane | 24.230 | 1363143 | 2.174 | ppb | m |
| 17) t 1,3,5-trimethylbenzene | 24.596 | 1485425 | 2.065 | ppb | m |
| 18) 1,2,4-trimethylbenzene | 25.115 | 1358128 | 1.976 | ppb | m |
| 19) h butylcyclohexane | 25.263 | 1487308 | 2.216 | ppb | m |
| 20) naphthalene | 28.068 | 834686 | 2.234 | ppb | m |
| 23) mtbe #2 | 9.561 | 1012871 | 1.952 | ppb | m |
| 24) benzene #2 | 14.668 | 2639435 | 1.883 | ppb | m |
| 26) toluene #2 | 19.126 | 2524690 | 2.070 | ppb | m |
| 28) ethylbenzene #2 | 22.223 | 1889943 | 1.893 | ppb | m |
| 29) m,p-xylene #2 | 22.365 | 4718026 | 3.849 | ppb | m |
| 30) o-xylene #2 | 23.169 | 1948764 | 1.927 | ppb | m |
| 31) t 1,3,5-trimethylbenzen... | 24.595 | 2878673 | 2.008 | ppb | |
| 32) 1,2,4-trimethylbenzen... | 25.113 | 2057662 | 1.940 | ppb | m |
| 33) naphthalene #2 | 28.064 | 1726017 | 2.114 | ppb | m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 2046058 | 1.922 | ppb | m |

(f)=RT Delta > 1/2 Window (m)=manual int.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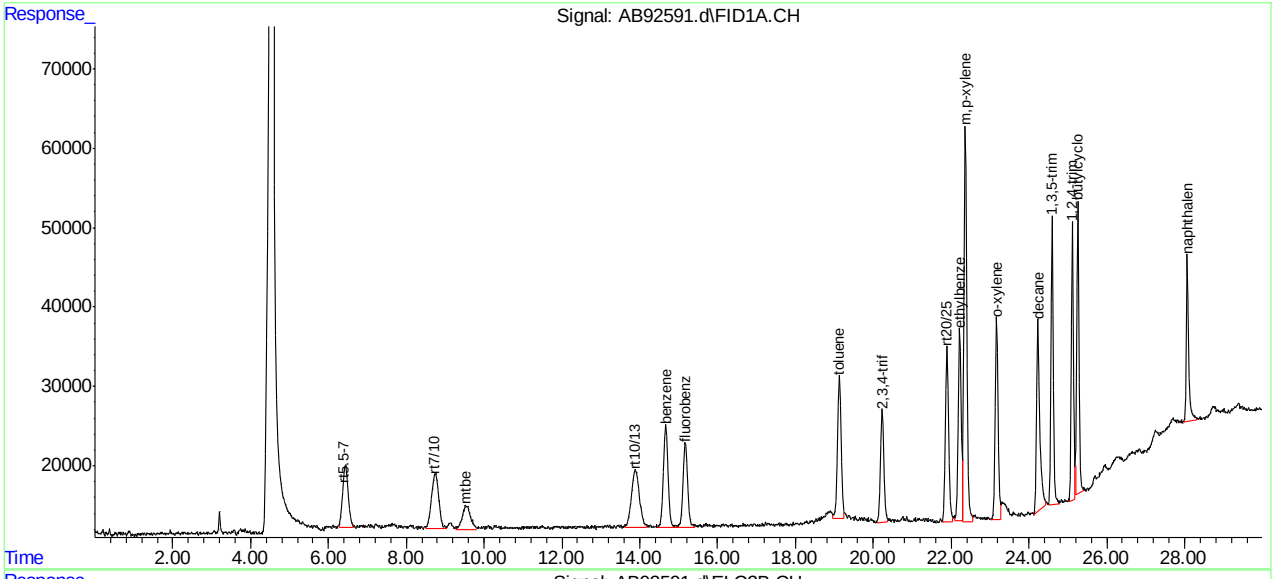
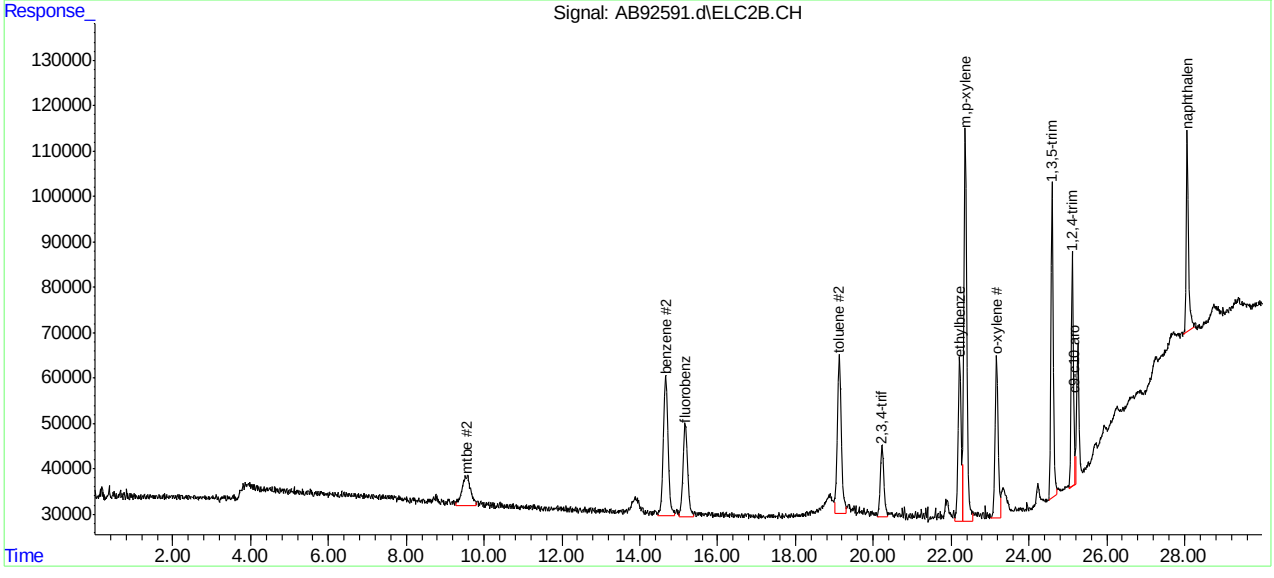
Quantitation Report (QT Reviewed)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:42 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



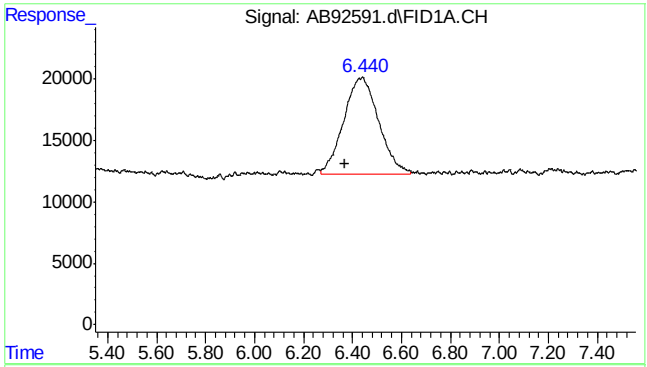







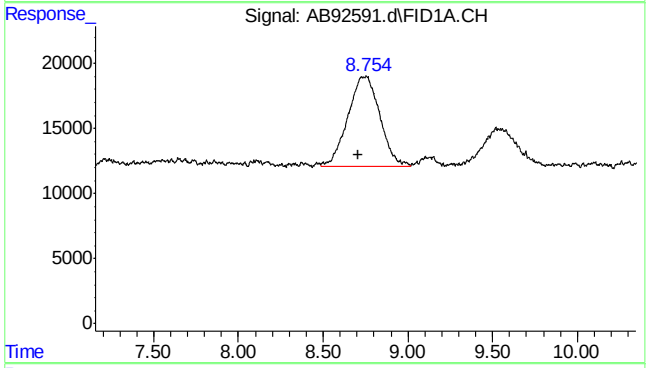



SGS ACCUTEST MC46487



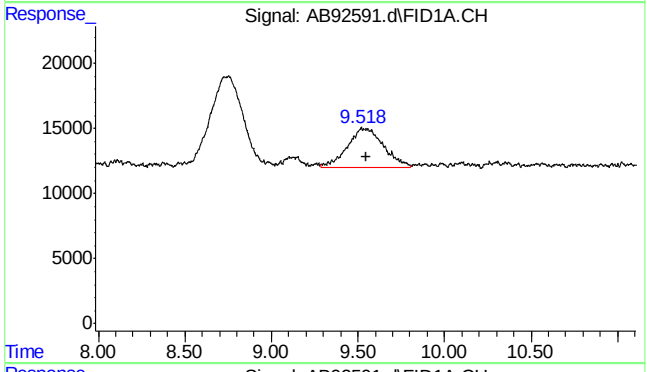

#1 rt5.5-7

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



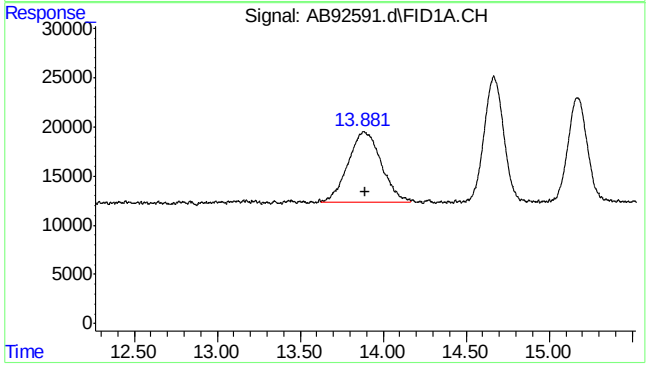

#2 rt7/10

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



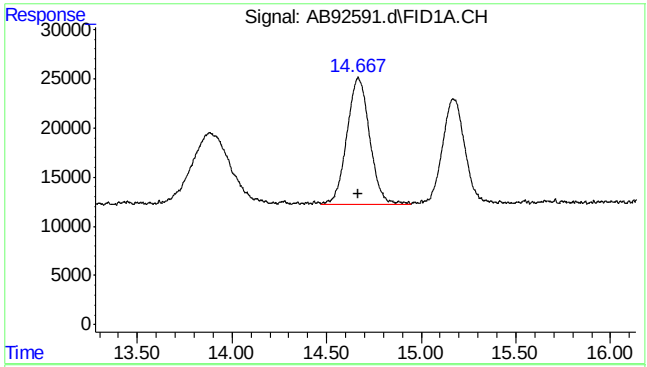

#3 mtbe

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



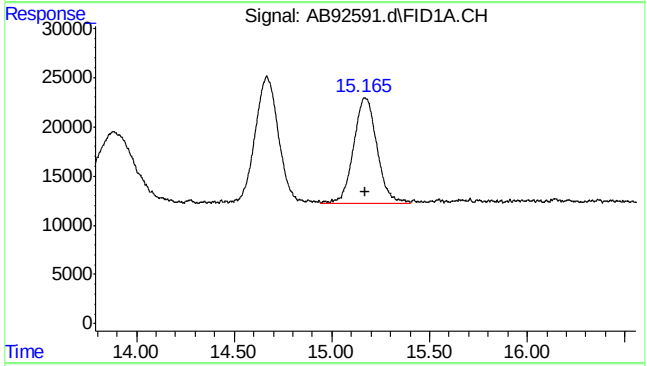

#4 rt10/13

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



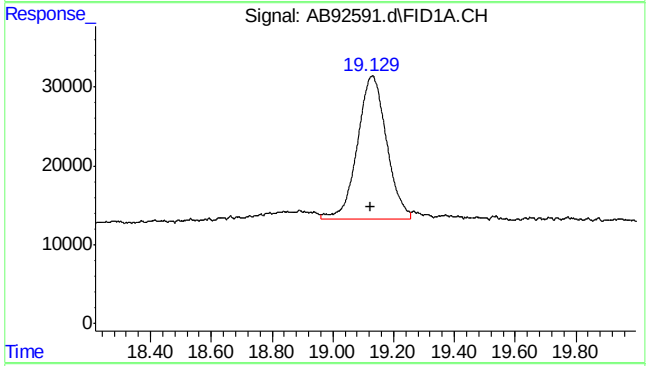

#5 benzene

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



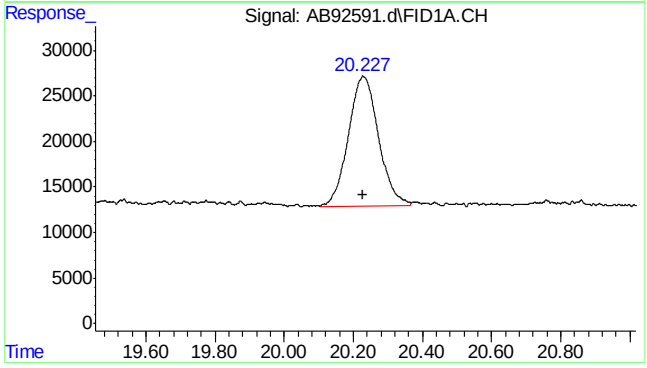

#6 fluorobenzene

R.T.: 15.165 min
Delta R.T.: -0.007 min
Response: 882607
Conc: 2.01 ppb m




#8 toluene

R.T.: 19.129 min
Delta R.T.: 0.003 min
Response: 1201255
Conc: 1.95 ppb m




#9 2,3,4-trifluorotoluene

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



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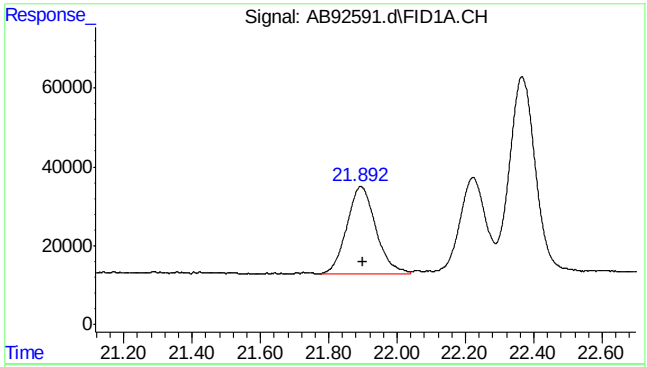
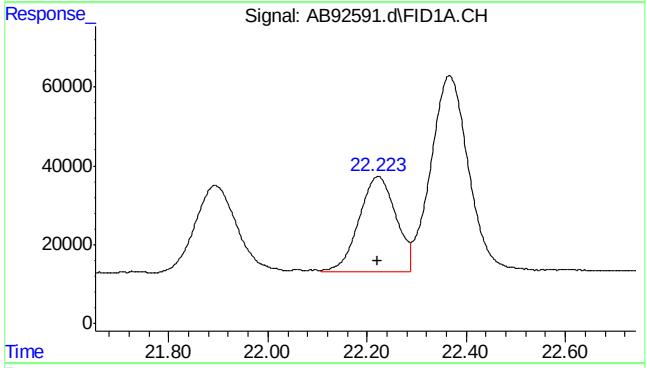


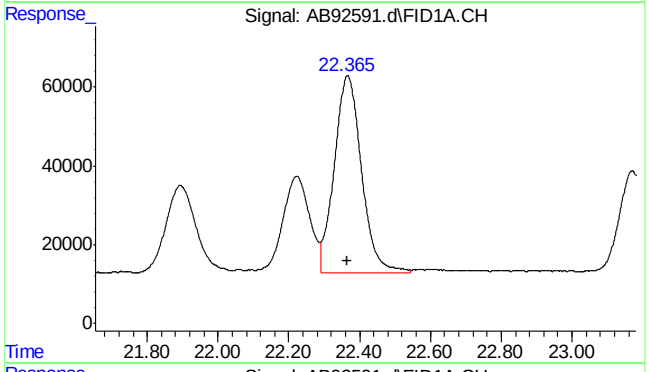

#11 rt20/25

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



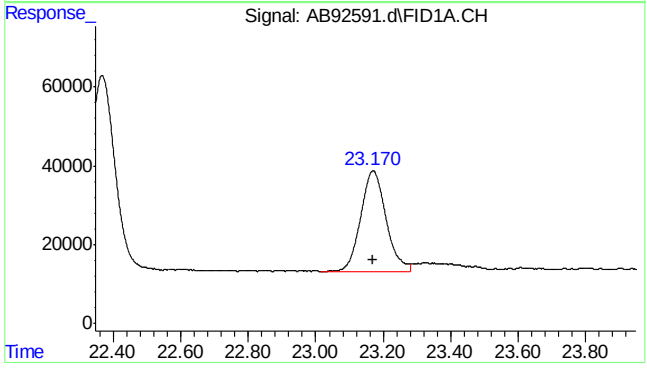

#13 ethylbenzene

R.T.: 22.223 min
Delta R.T.: 0.003 min
Response: 1269420
Conc: 1.94 ppb m




#14 m,p-xylene

R.T.: 22.365 min
Delta R.T.: 0.001 min
Response: 2661036
Conc: 3.91 ppb m




#15 o-xylene

R.T.: 23.170 min
Delta R.T.: 0.002 min
Response: 1342437
Conc: 1.97 ppb m





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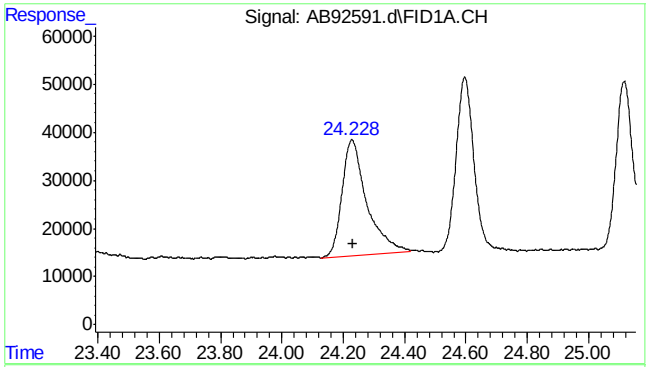
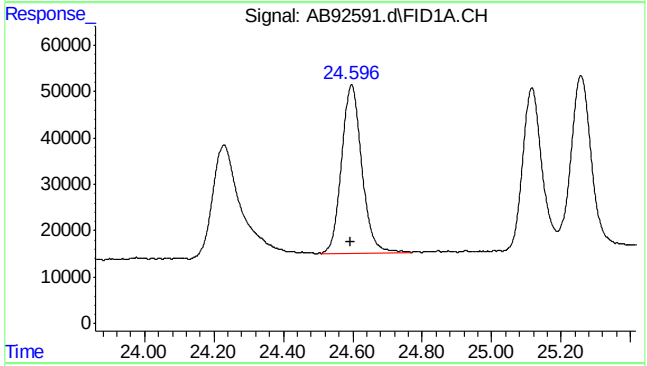


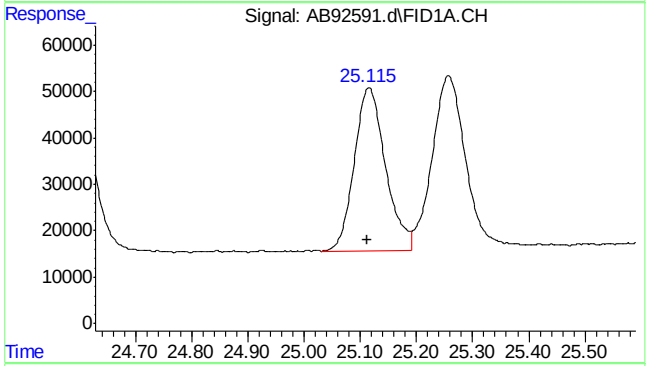

#16 decane

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



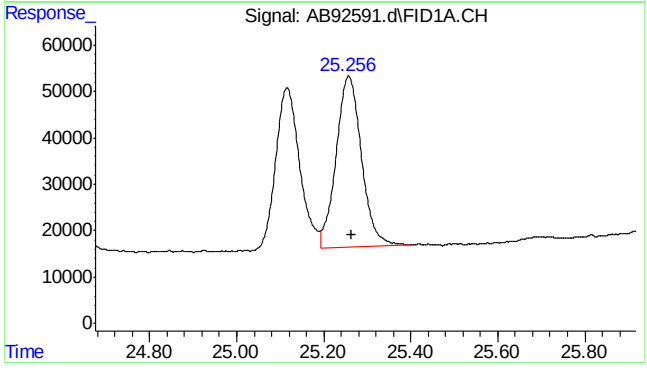

#17 1,3,5-trimethylbenzene

R.T.: 24.596 min
Delta R.T.: 0.000 min
Response: 1485425
Conc: 2.07 ppb m




#18 1,2,4-trimethylbenzene

R.T.: 25.115 min
Delta R.T.: 0.002 min
Response: 1358128
Conc: 1.98 ppb m




#19 butylcyclohexane

R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 1487308
Conc: 2.22 ppb m





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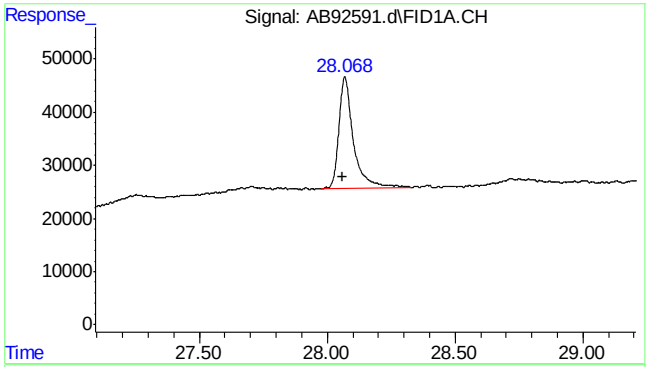
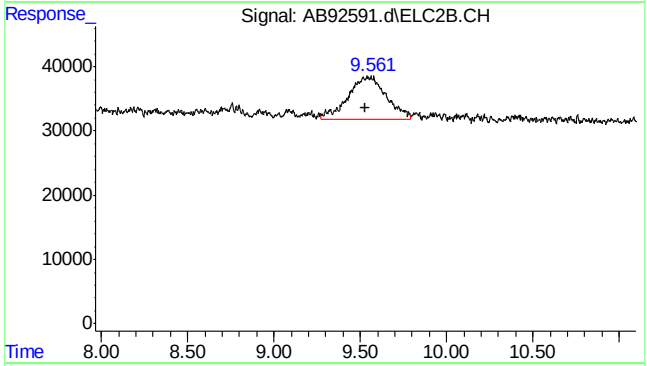


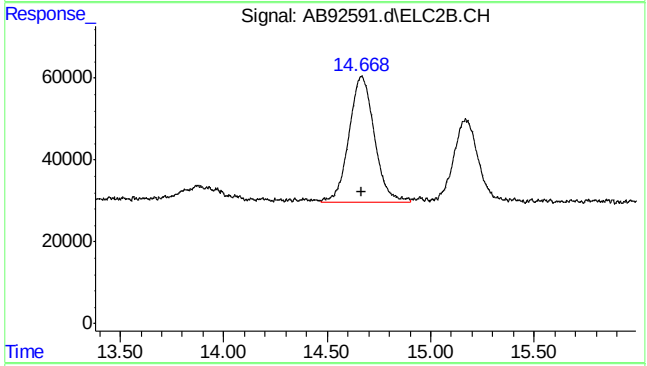

#20 naphthalene

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



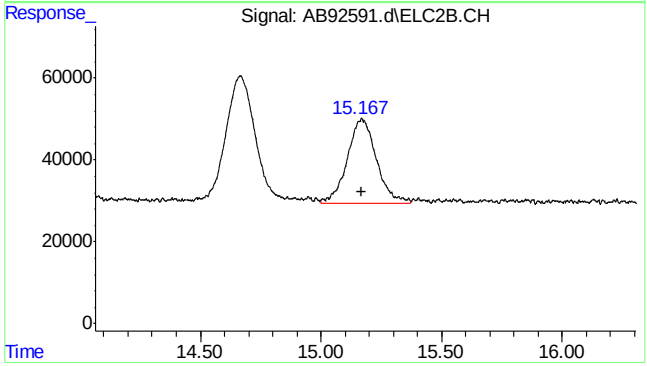

#23 mtbe #2

R.T.: 9.561 min
Delta R.T.: 0.032 min
Response: 1012871
Conc: 1.95 ppb m




#24 benzene #2

R.T.: 14.668 min
Delta R.T.: 0.002 min
Response: 2639435
Conc: 1.88 ppb m




#25 fluorobenzene #2

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





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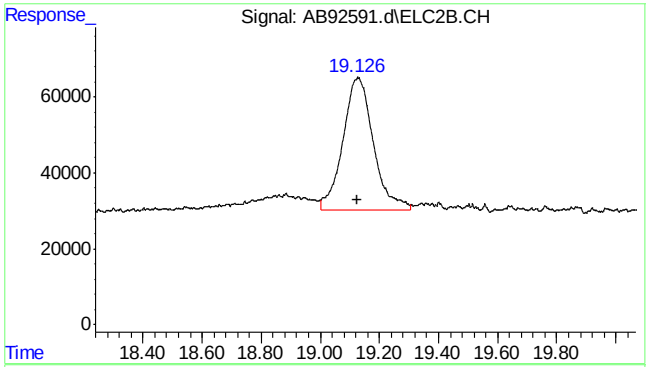
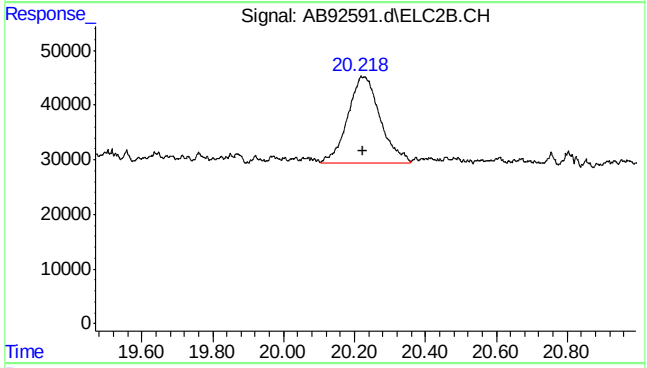


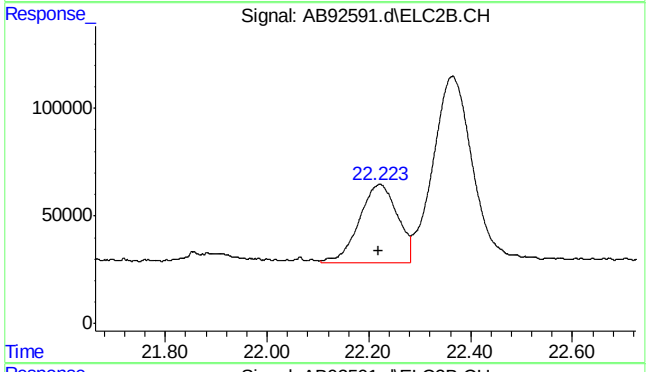

#26 toluene #2

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



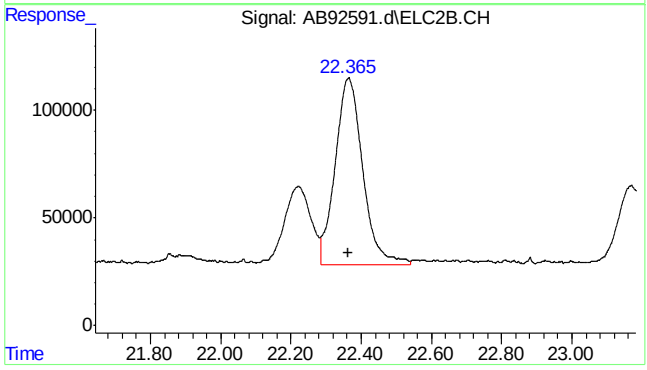

#27 2,3,4-trifluorotoluene #2

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




#28 ethylbenzene #2

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

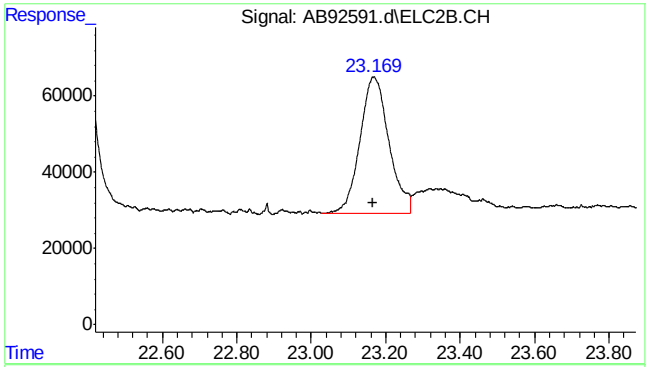



#29 m,p-xylene #2

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

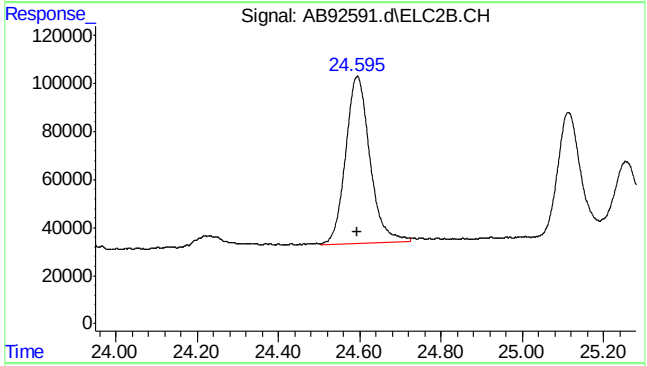


SGS ACCUTEST MC46487



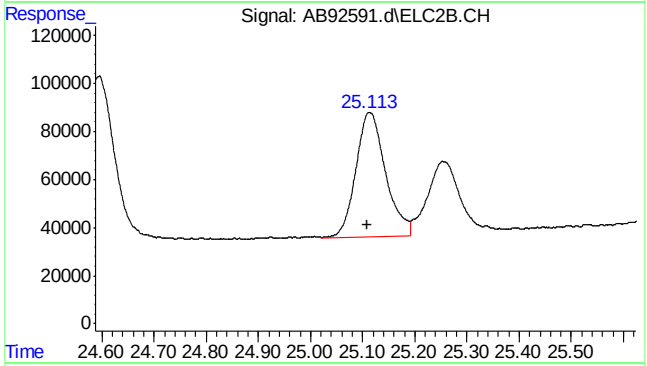

#30 o-xylene #2

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



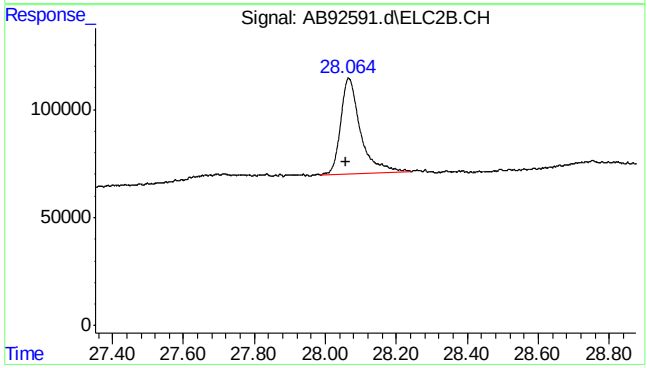

#31 1,3,5-trimethylbenzene #2

R.T.: 24.595 min
Delta R.T.: 0.002 min
Response: 2878673
Conc: 2.01 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.113 min
Delta R.T.: 0.003 min
Response: 2057662
Conc: 1.94 ppb m




#33 naphthalene #2

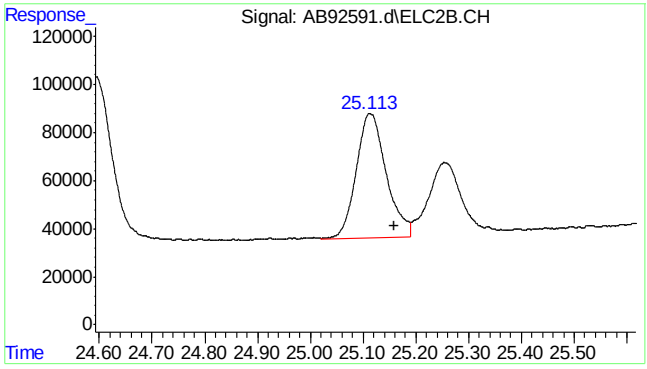
R.T.: 28.064 min
Delta R.T.: 0.005 min
Response: 1726017
Conc: 2.11 ppb m

7.5.8

7



SGS ACCUTEST MC46487




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

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

7.5.8

7



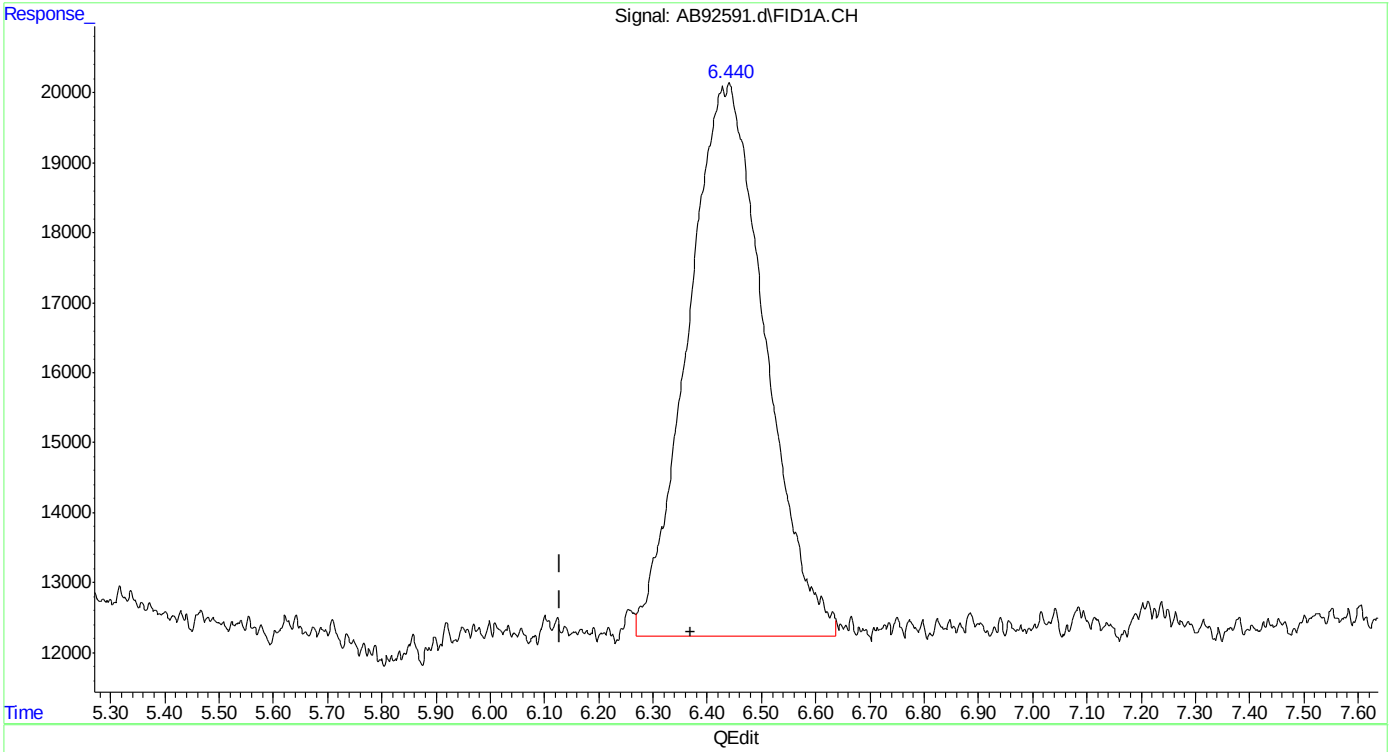
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(1) rt5.5-7 (h)

6.370min 2.108 ppb m

response 782177

(+) = Expected Retention Time

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



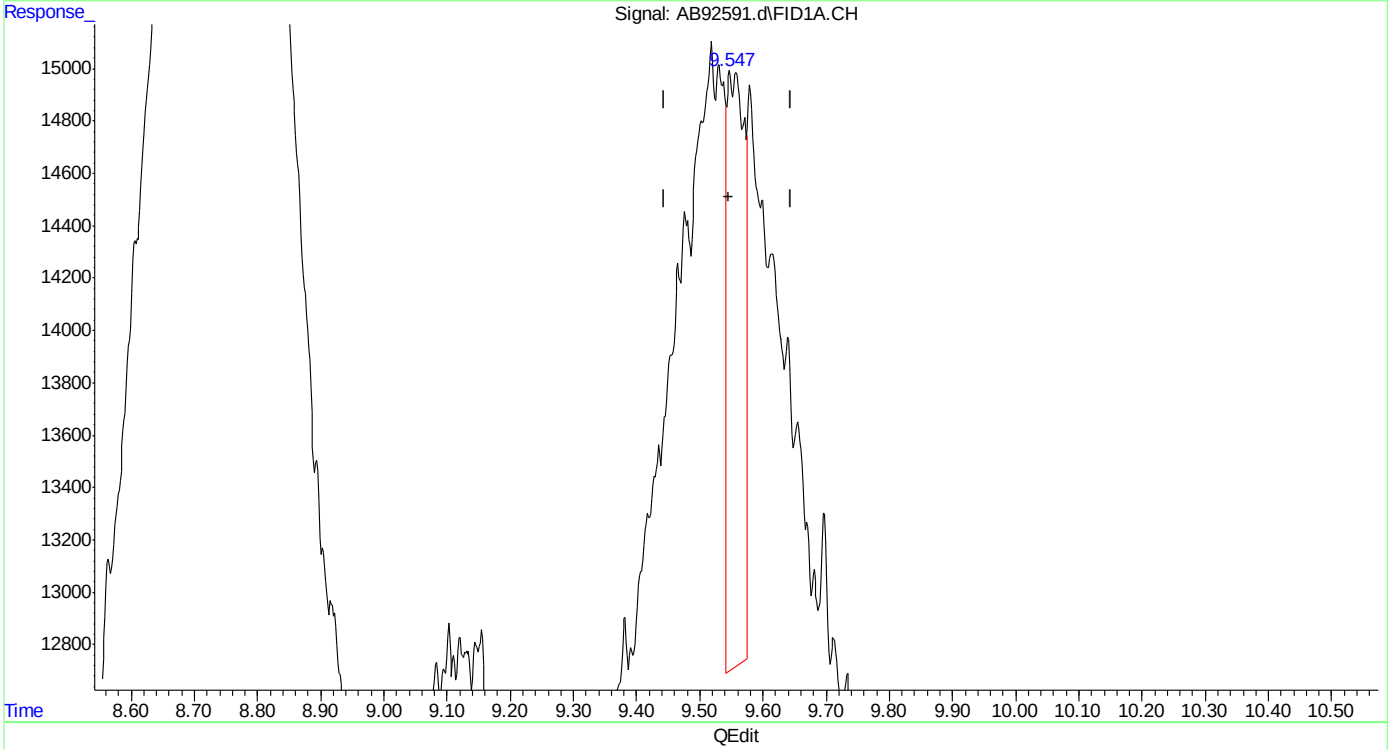
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.548min 0.194 ppb
response 42870

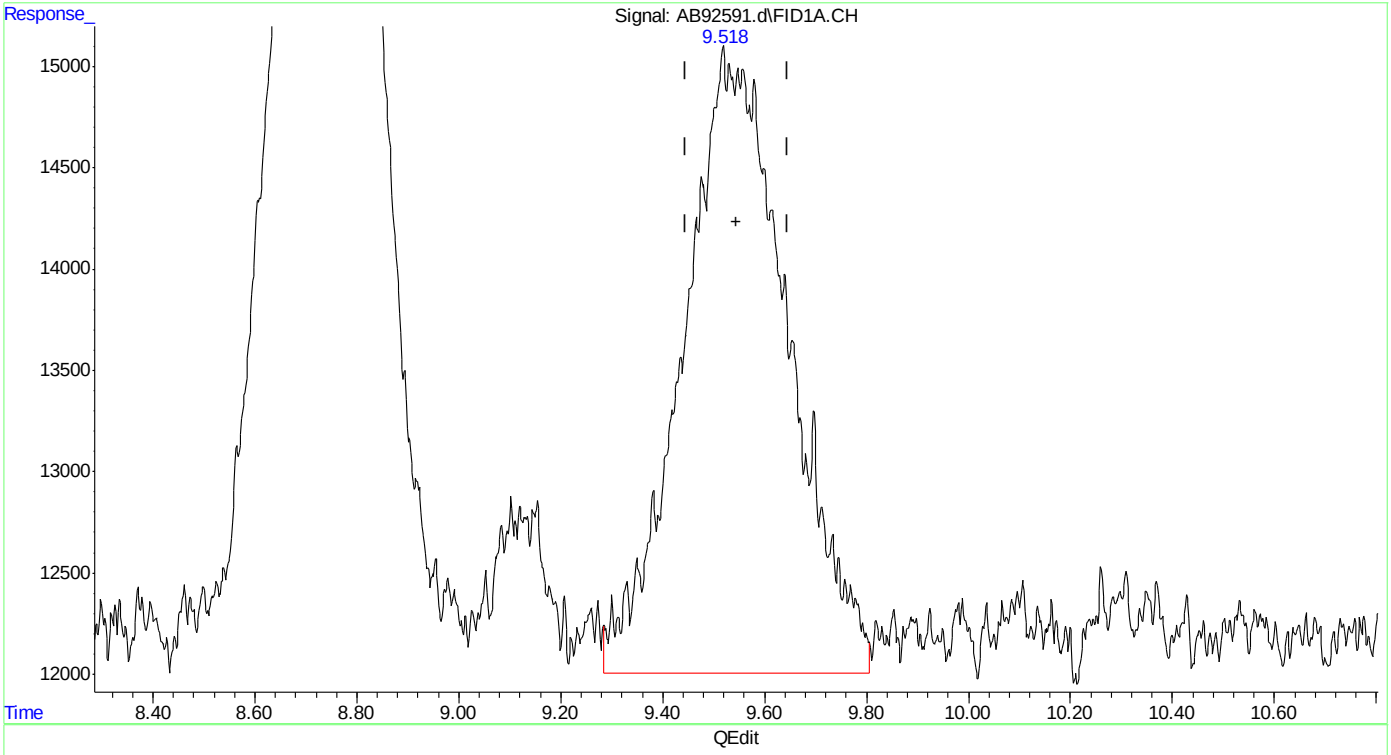
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:19:09 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.518min 1.996 ppb m
response 440739

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



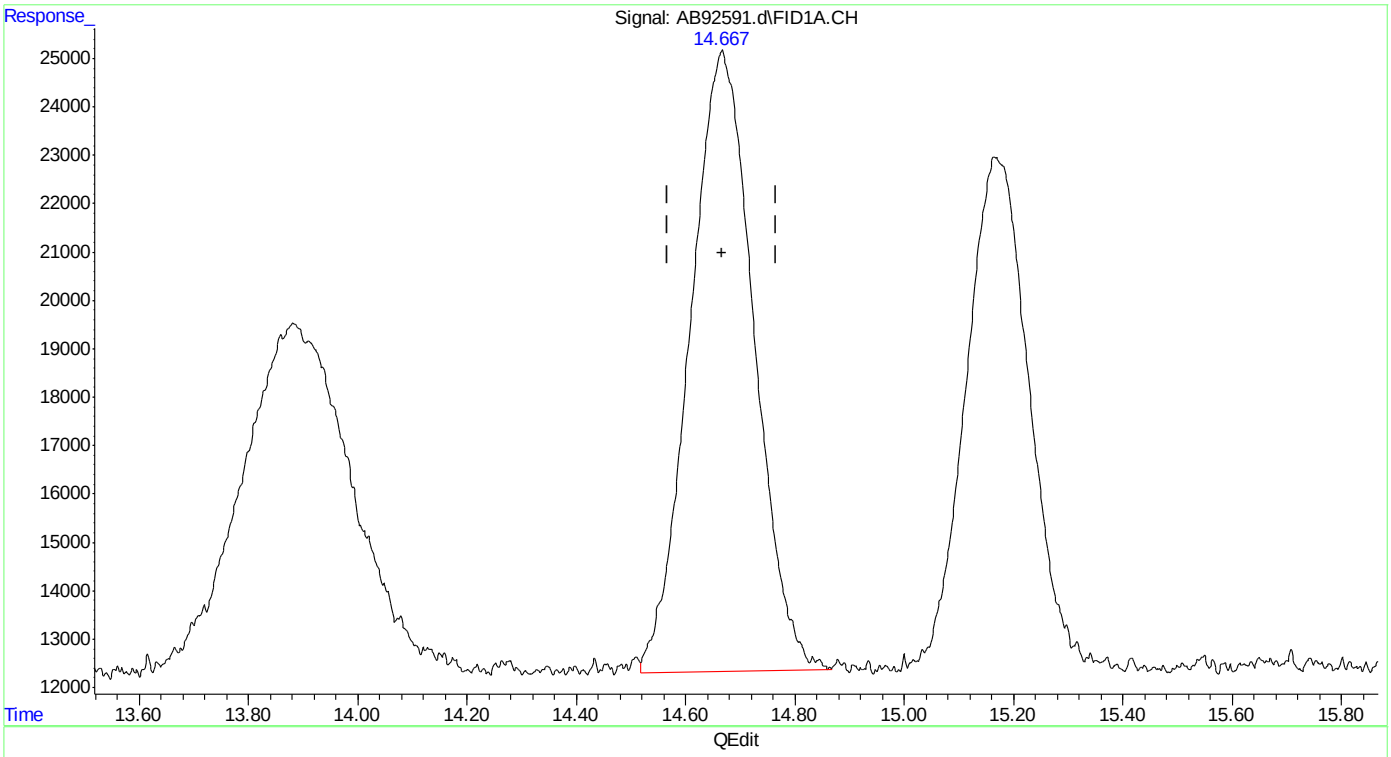
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(5) benzene
14.667min 1.864 ppb
response 1040324

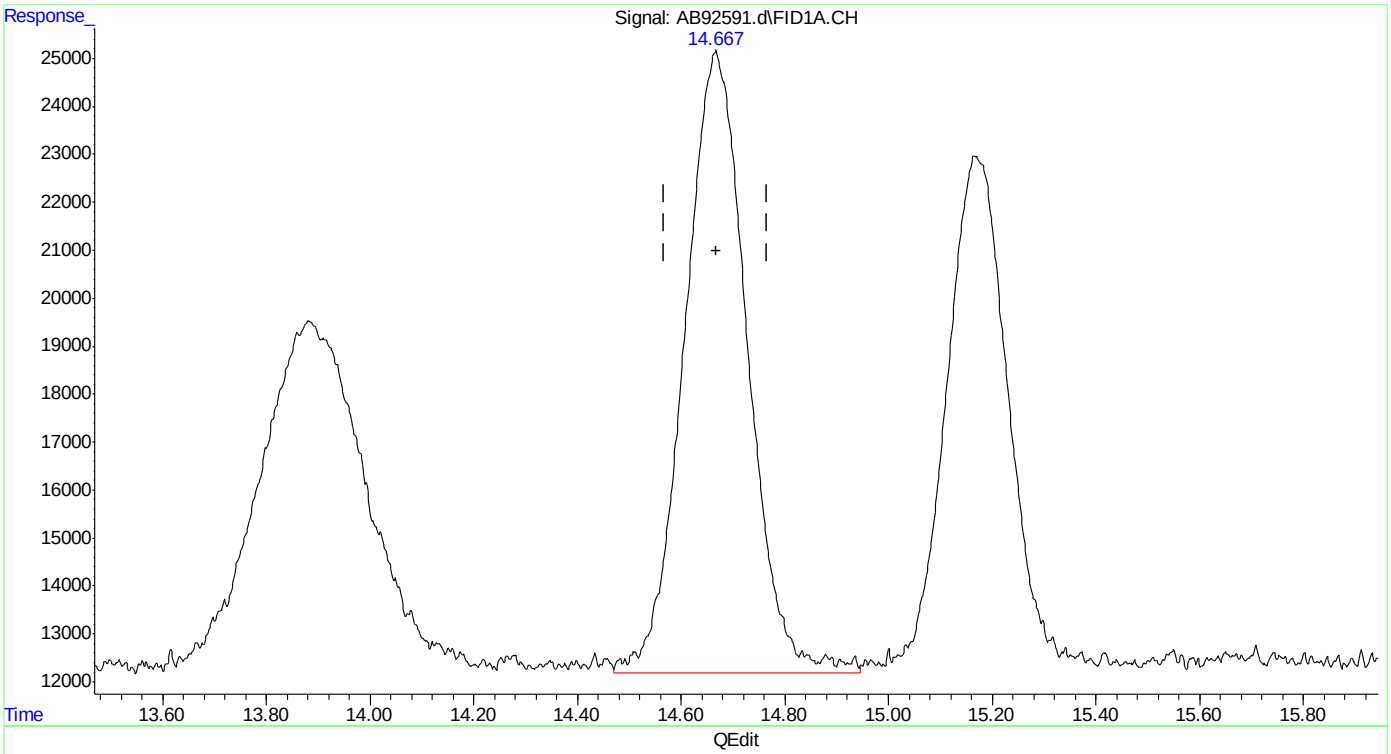
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:21 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(5) benzene
14.667min 1.956 ppb m
response 1091864

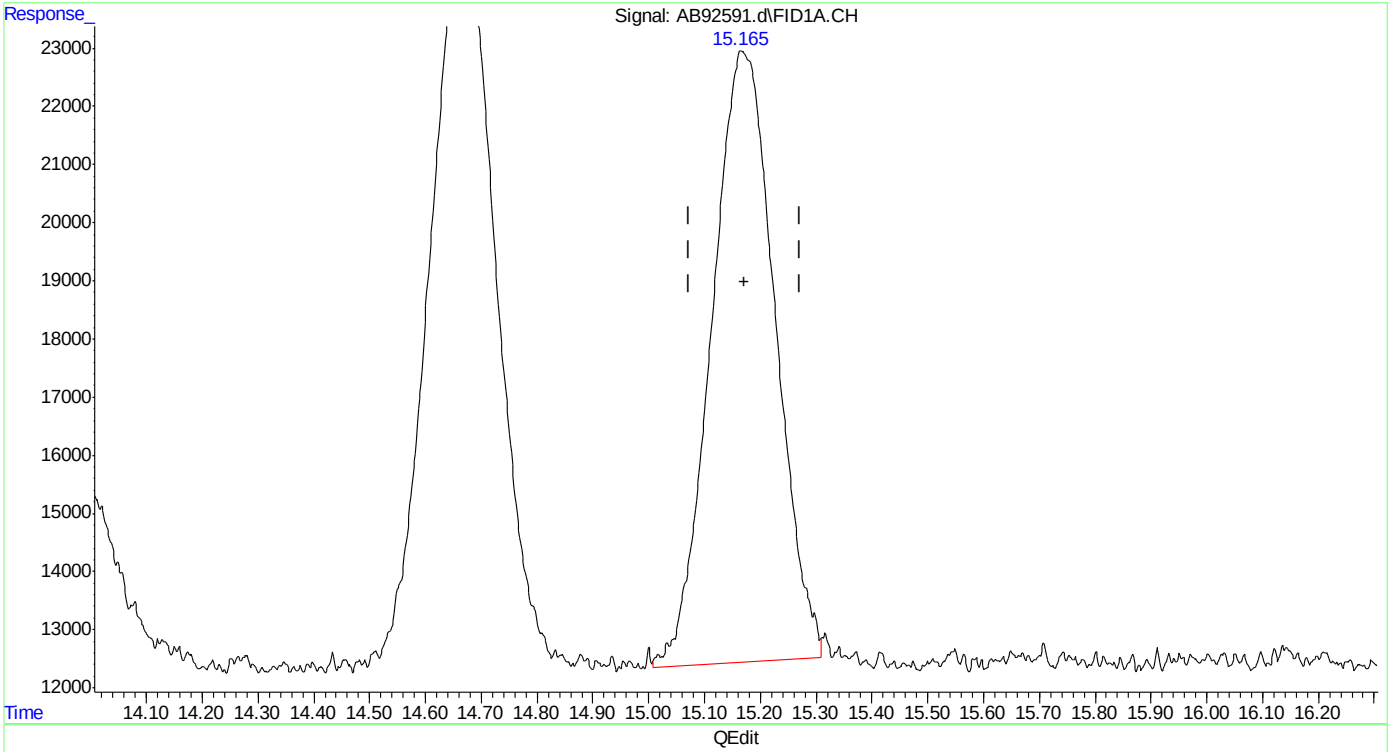
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:20:48 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)

15.166min 1.897 ppb

response 833597

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:20:51 2016



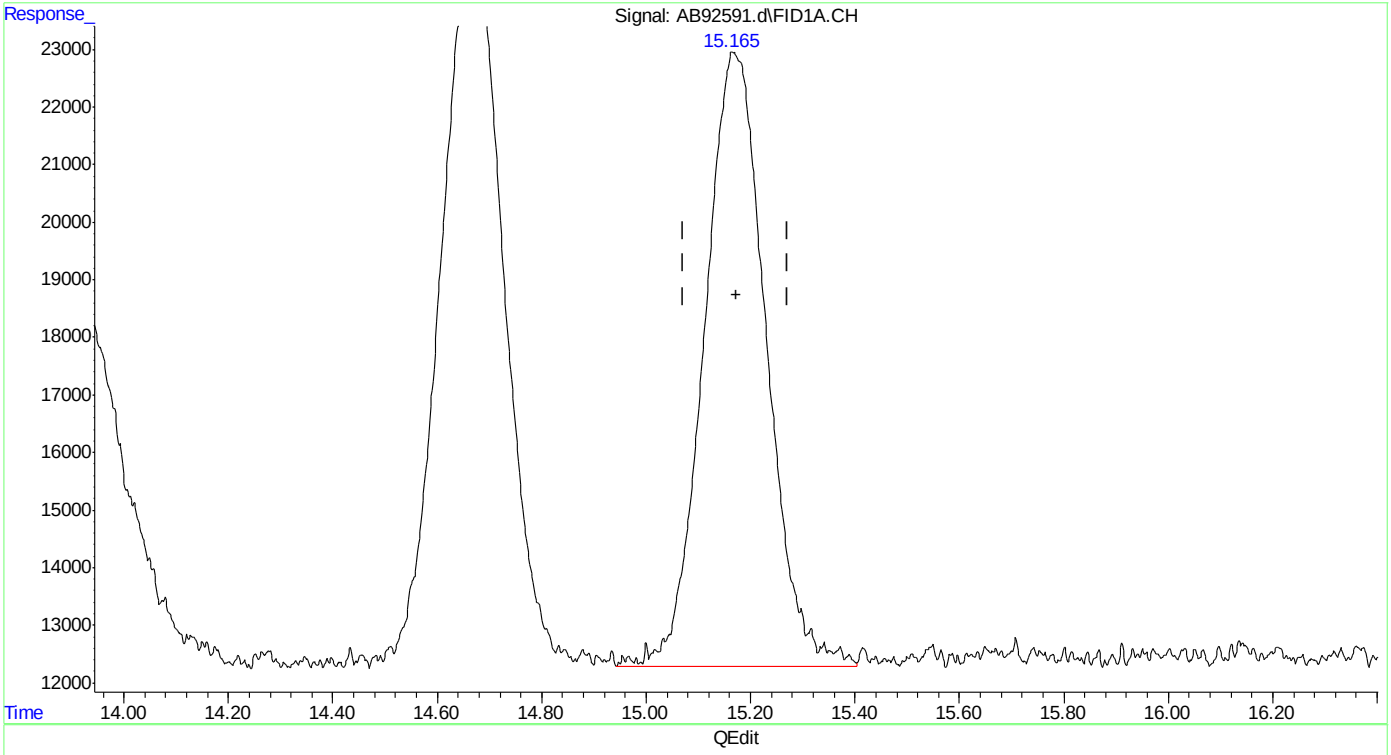
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)
15.165min 2.008 ppb m
response 882607

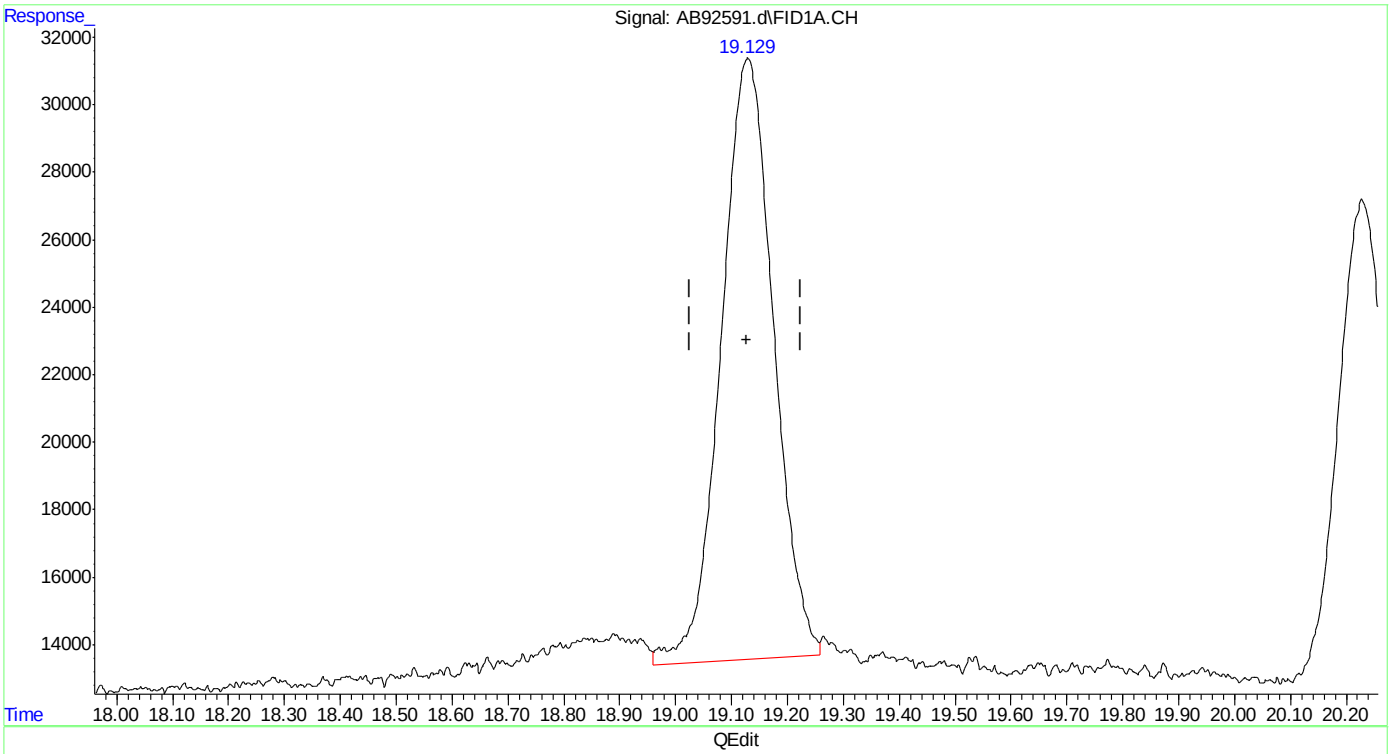
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.130min 1.885 ppb
response 1158268

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:25 2016



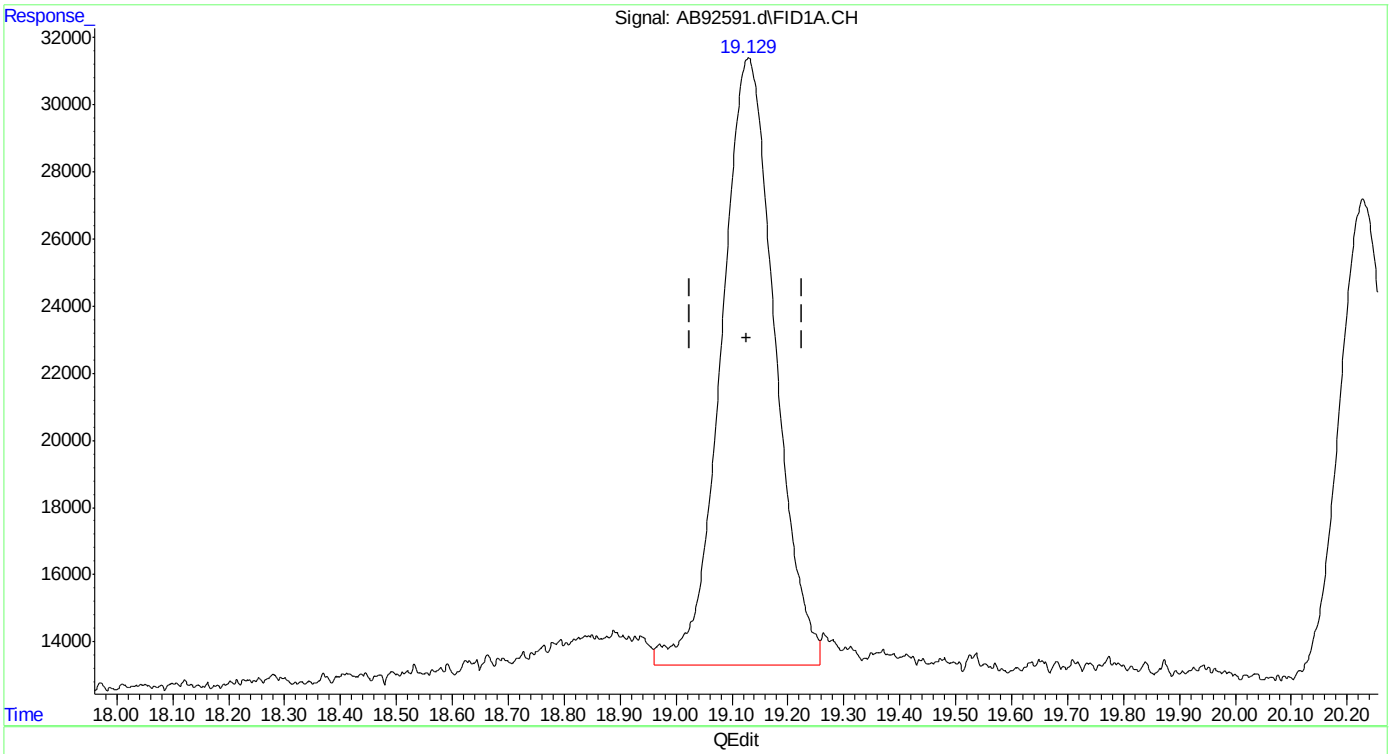
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.129min 1.955 ppb m
response 1201255

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:21:41 2016



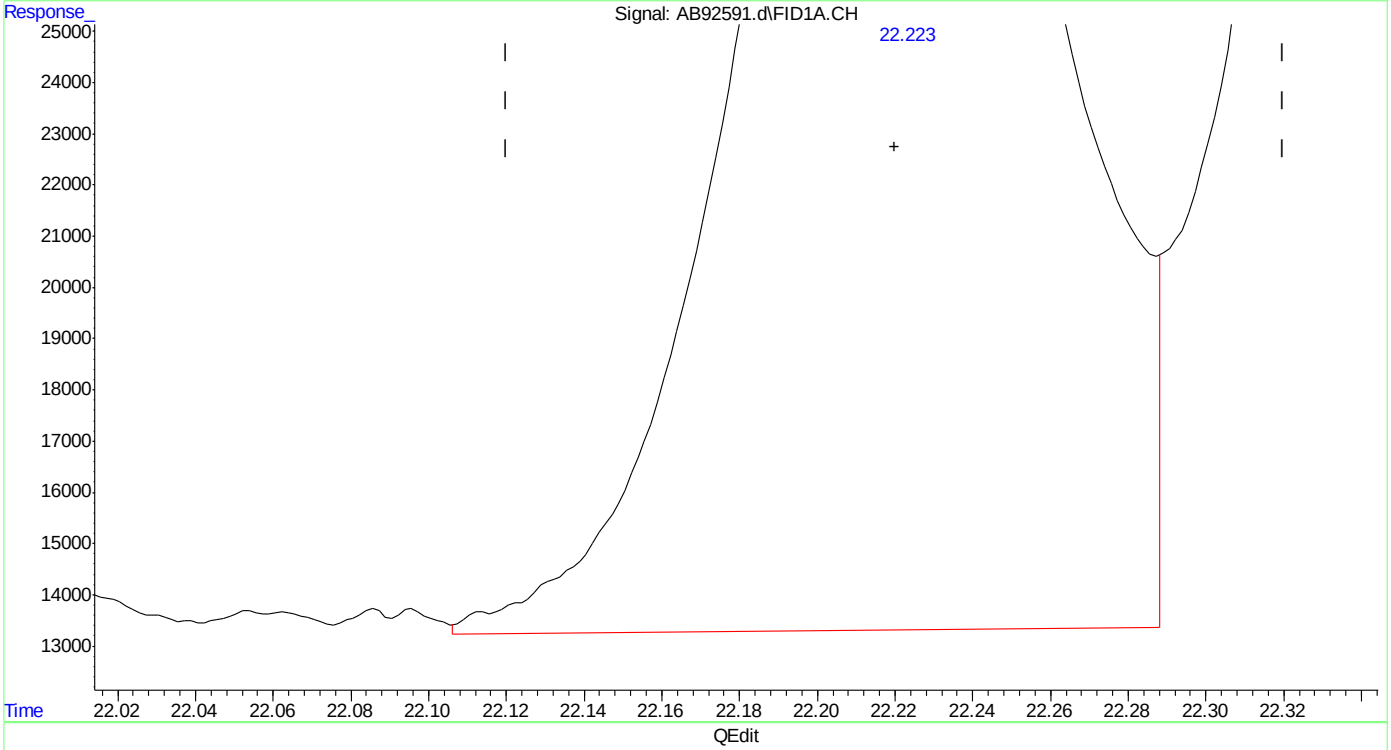
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.223min 1.895 ppb
response 1238375

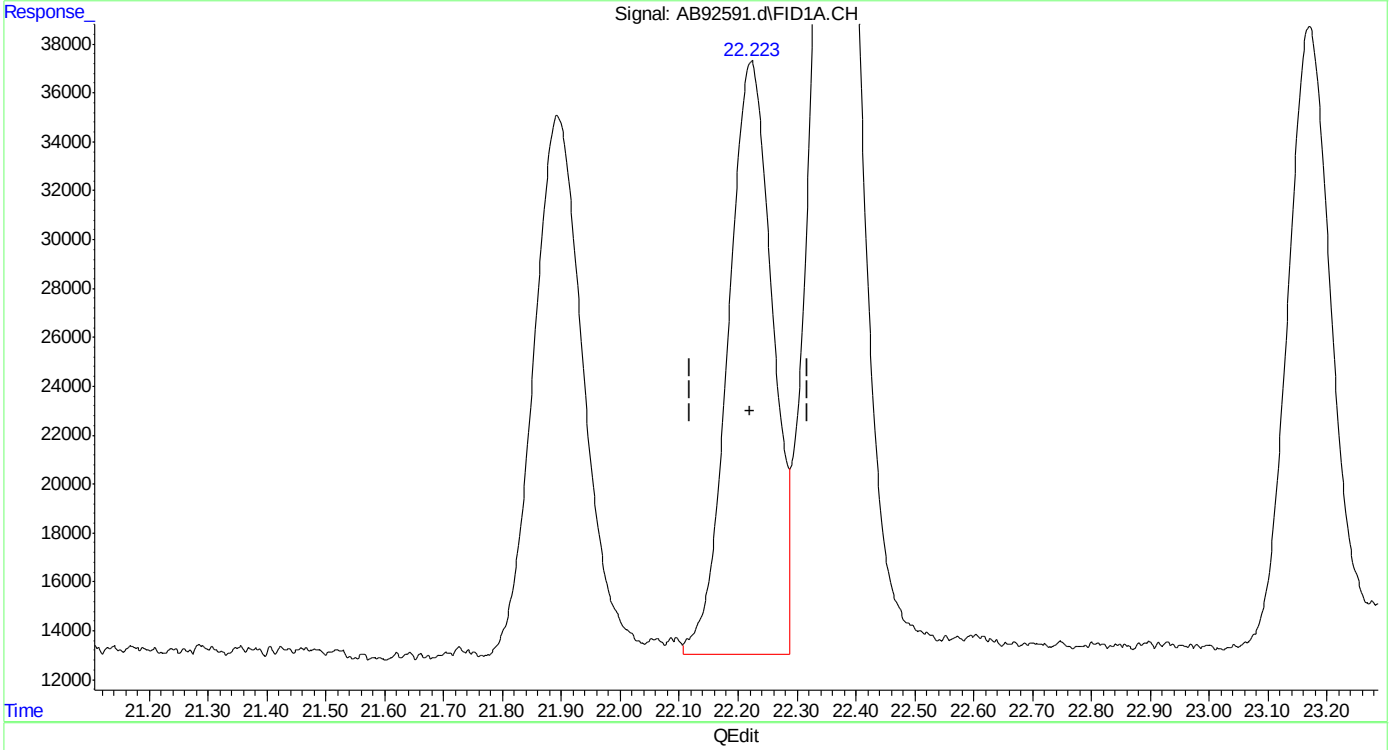
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.223min 1.942 ppb m
response 1269420

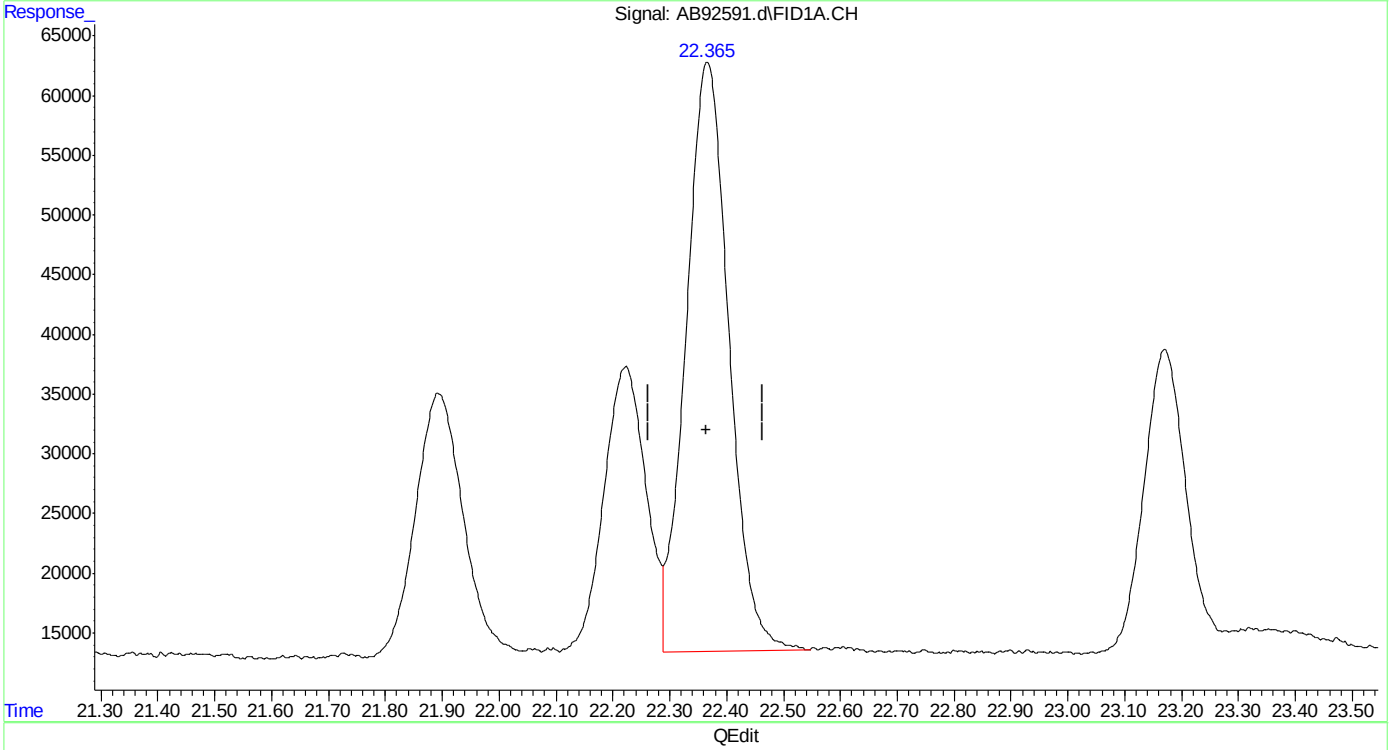
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:22:43 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) m,p-xylene
22.366min 3.809 ppb
response 2592627

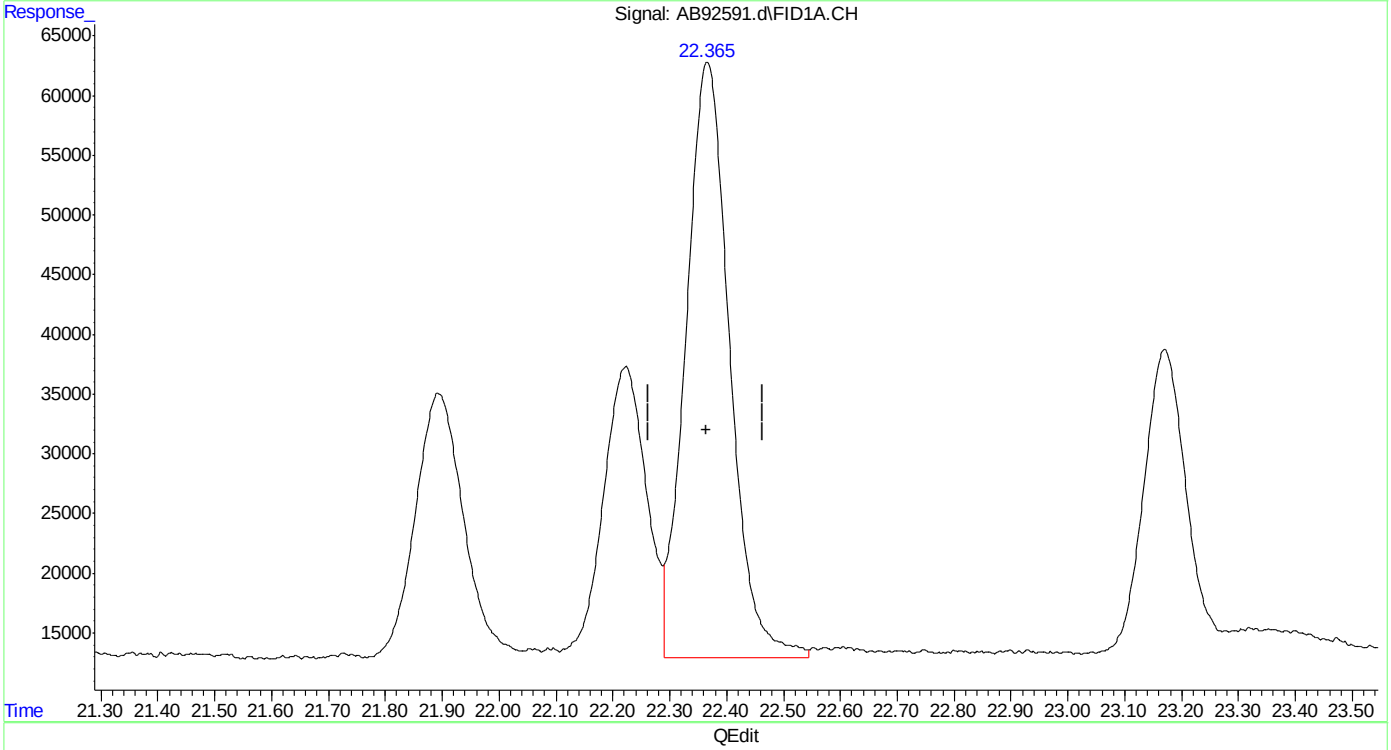
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:22:46 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) m,p-xylene
22.365min 3.910 ppb m
response 2661036

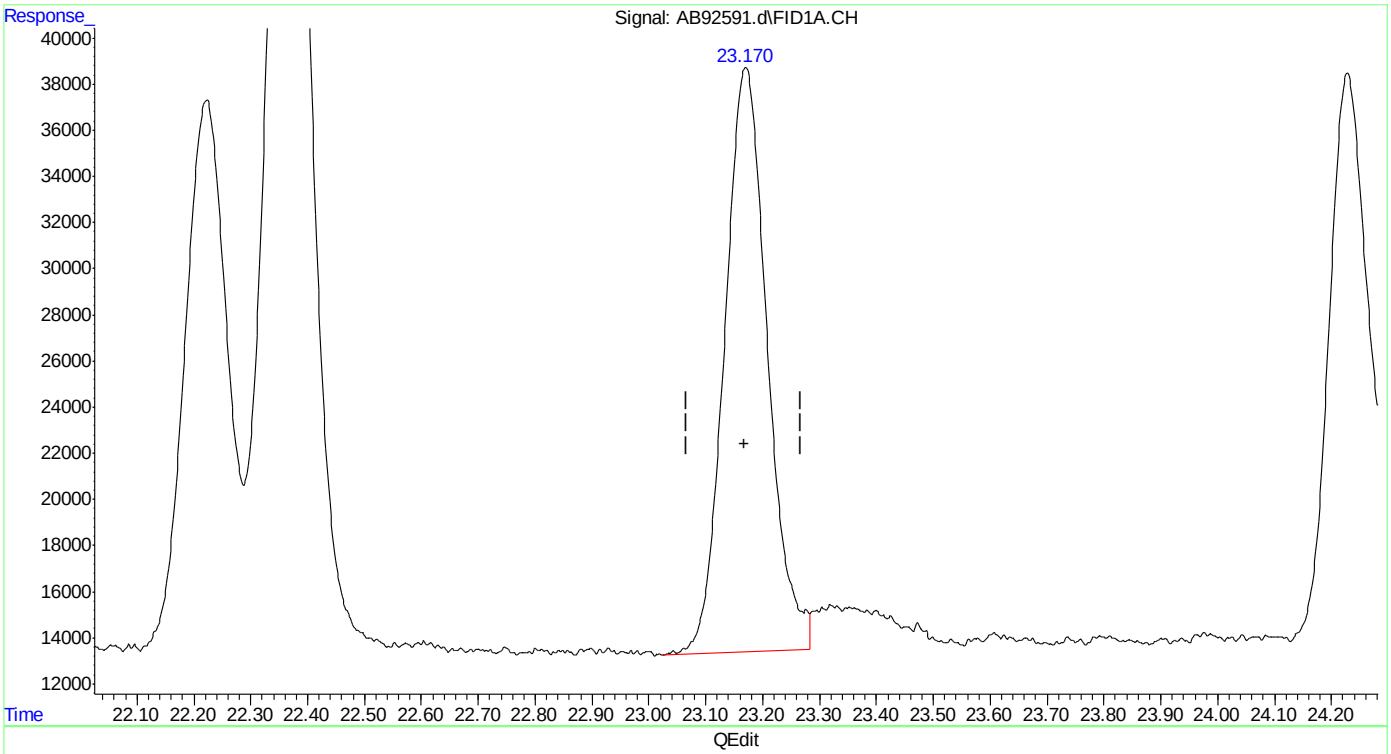
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.170min 1.938 ppb
response 1321423

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:00 2016



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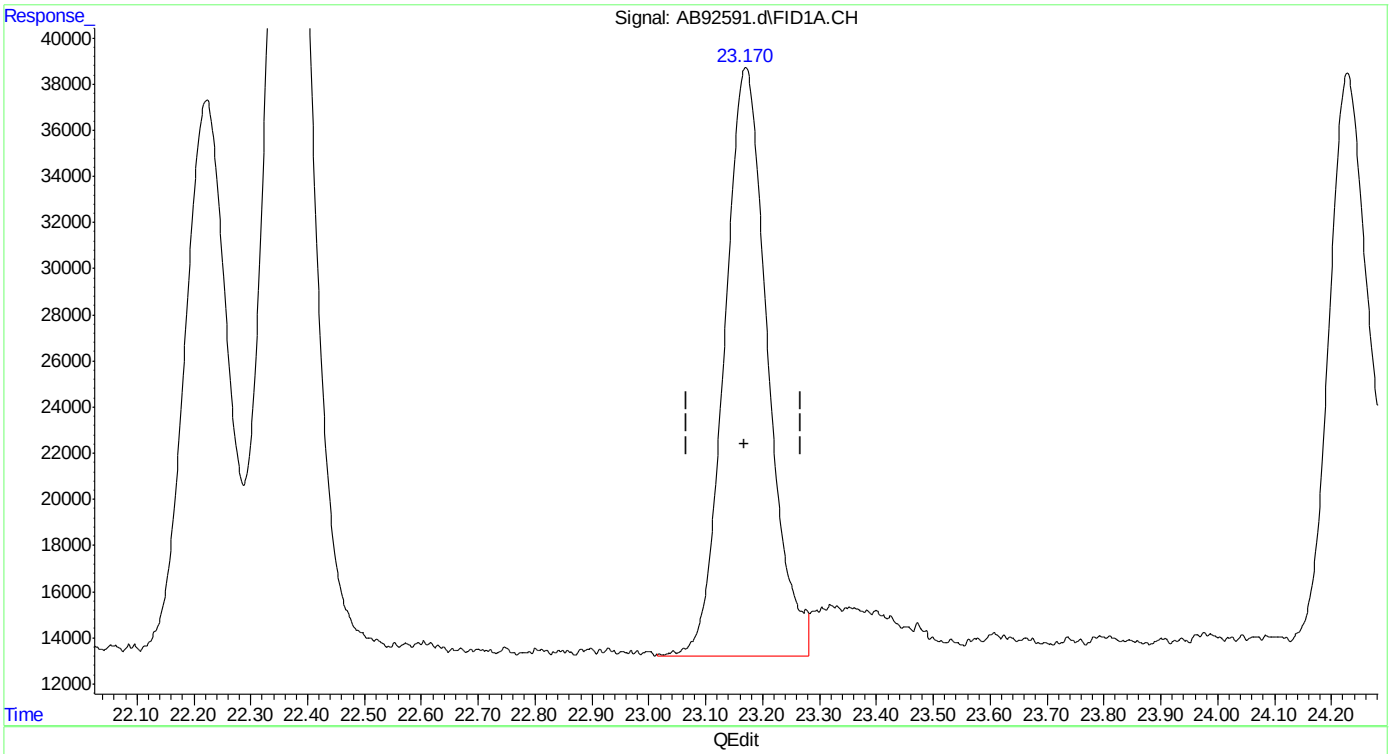
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.170min 1.969 ppb m
response 1342437

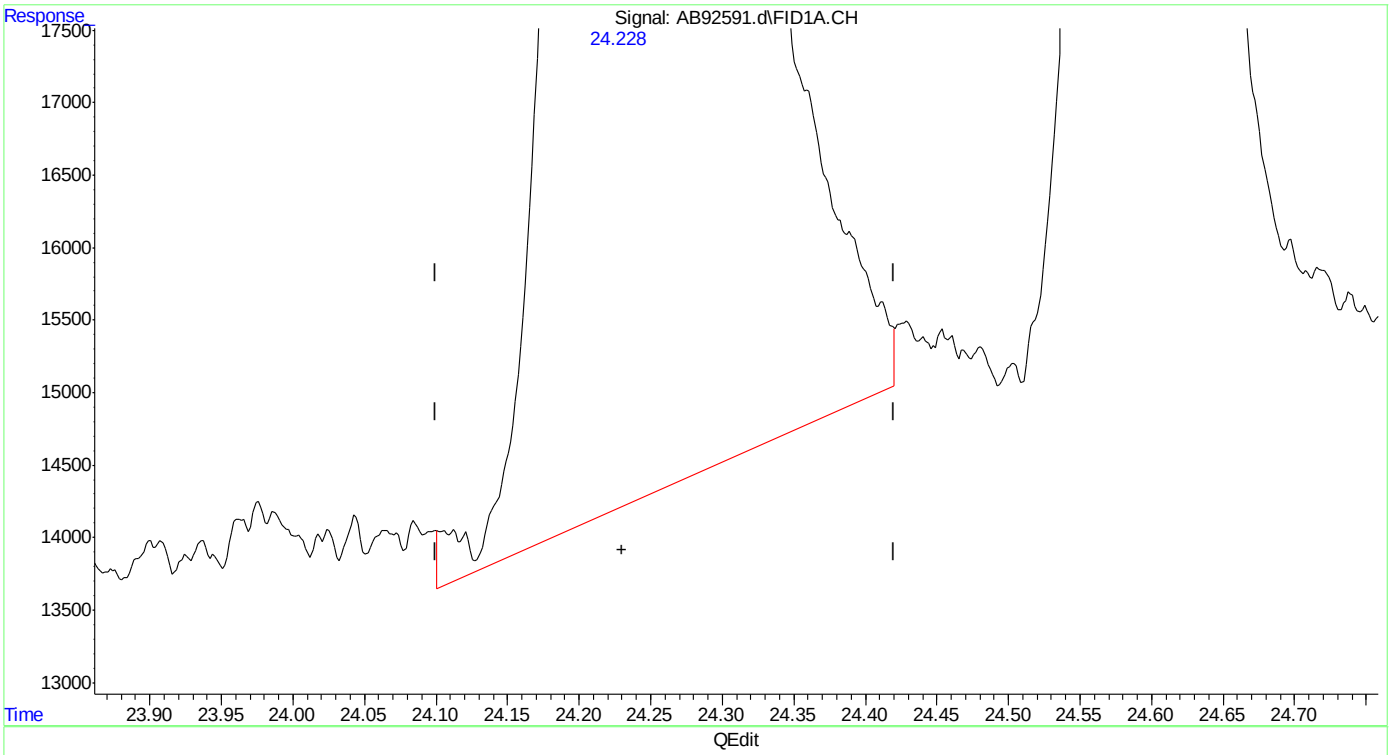
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:10 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(16) decane (h)
24.230min 2.202 ppb
response 1381186

(+) = Expected Retention Time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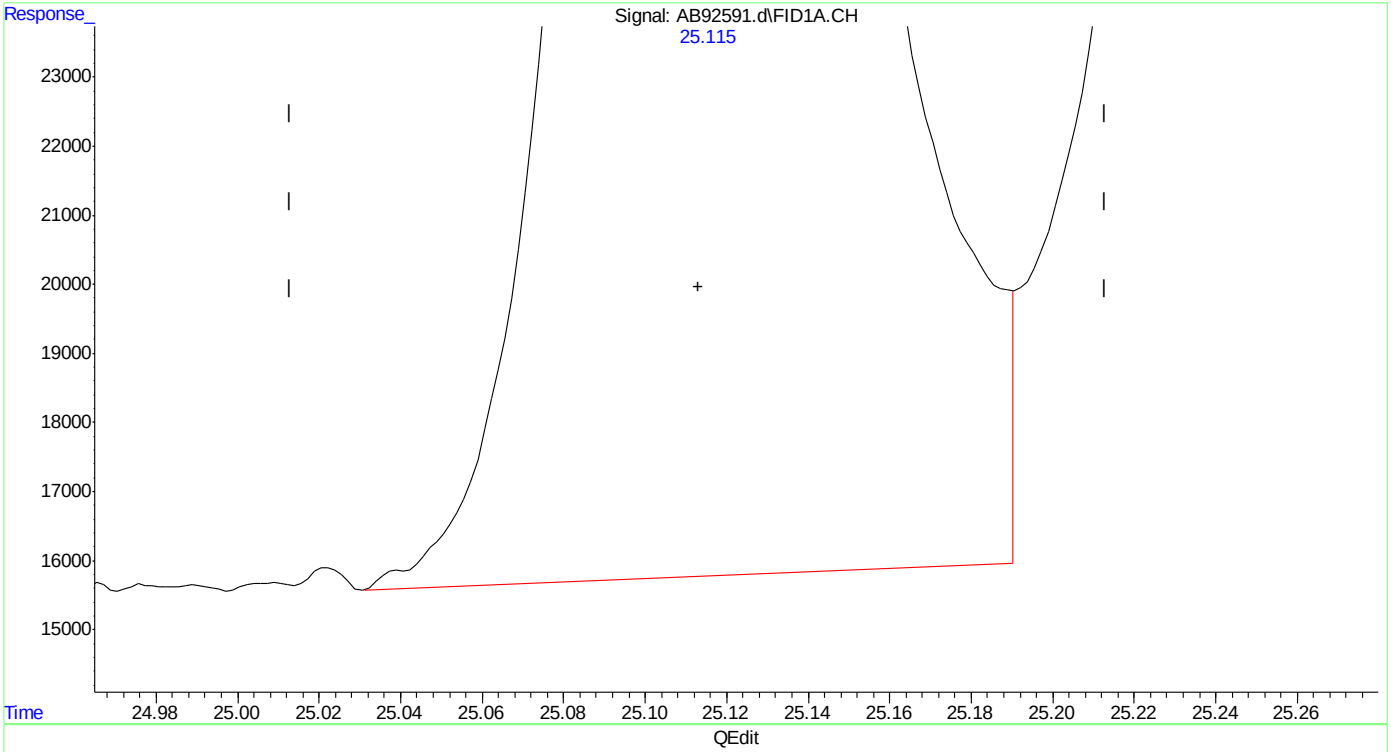
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(18) 1,2,4-trimethylbenzene
25.116min 1.961 ppb
response 1348010

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:23:32 2016





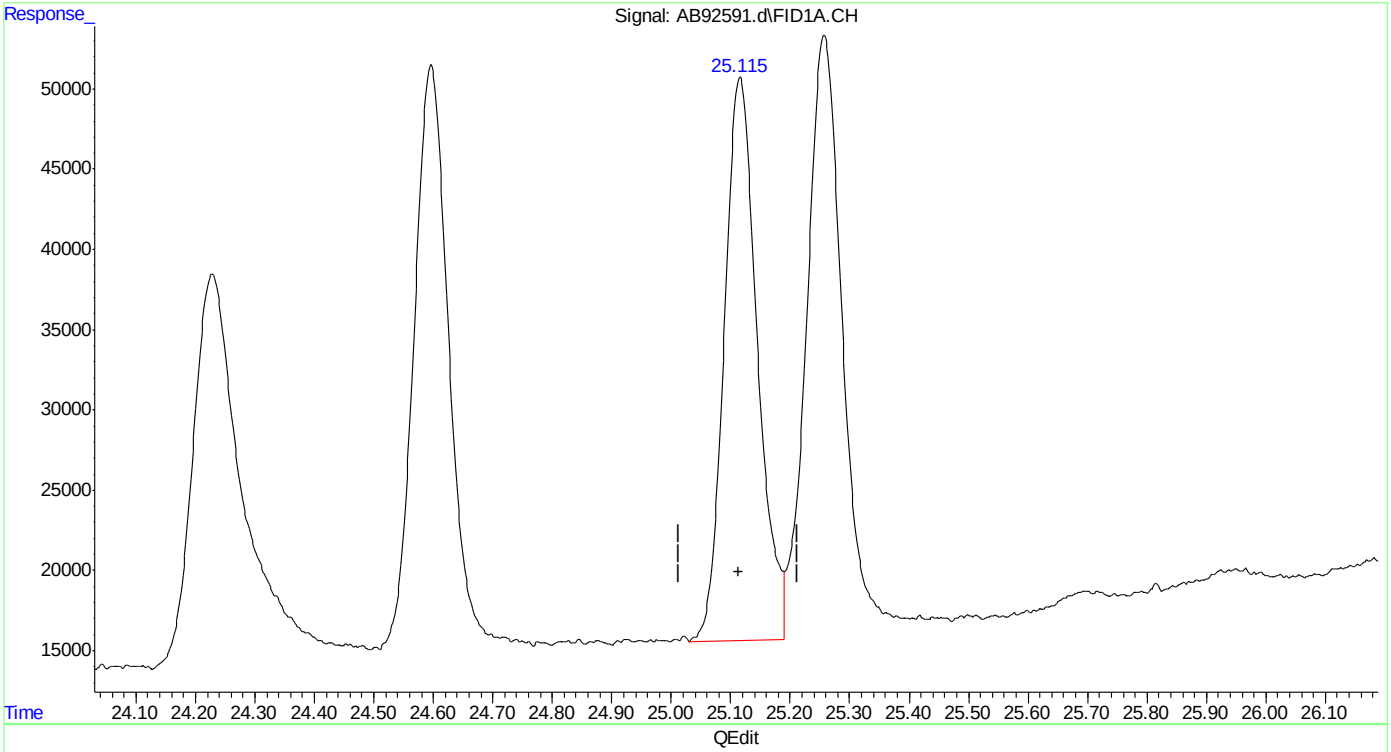
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(18) 1,2,4-trimethylbenzene
25.115min 1.976 ppb m
response 1358128

(+) = Expected Retention Time



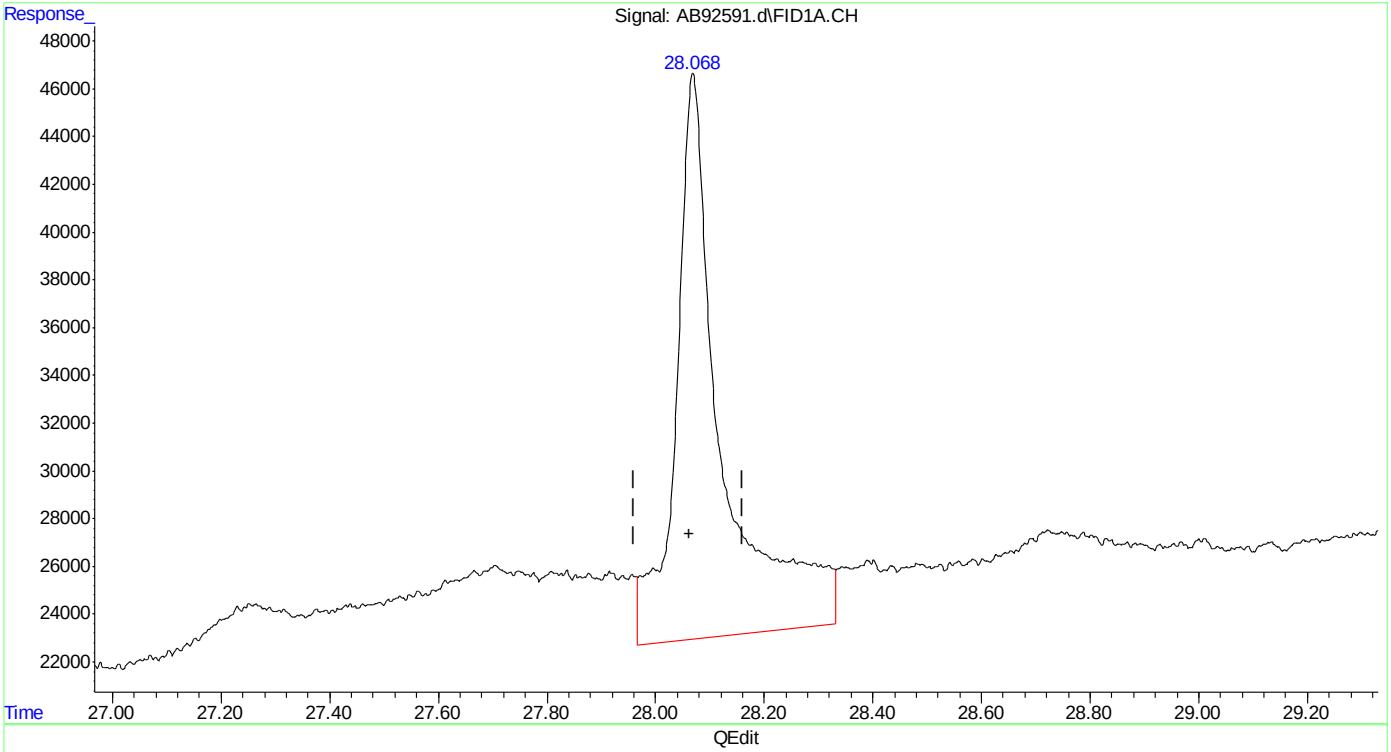
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.069min 3.731 ppb
response 1394371

(+) = Expected Retention Time



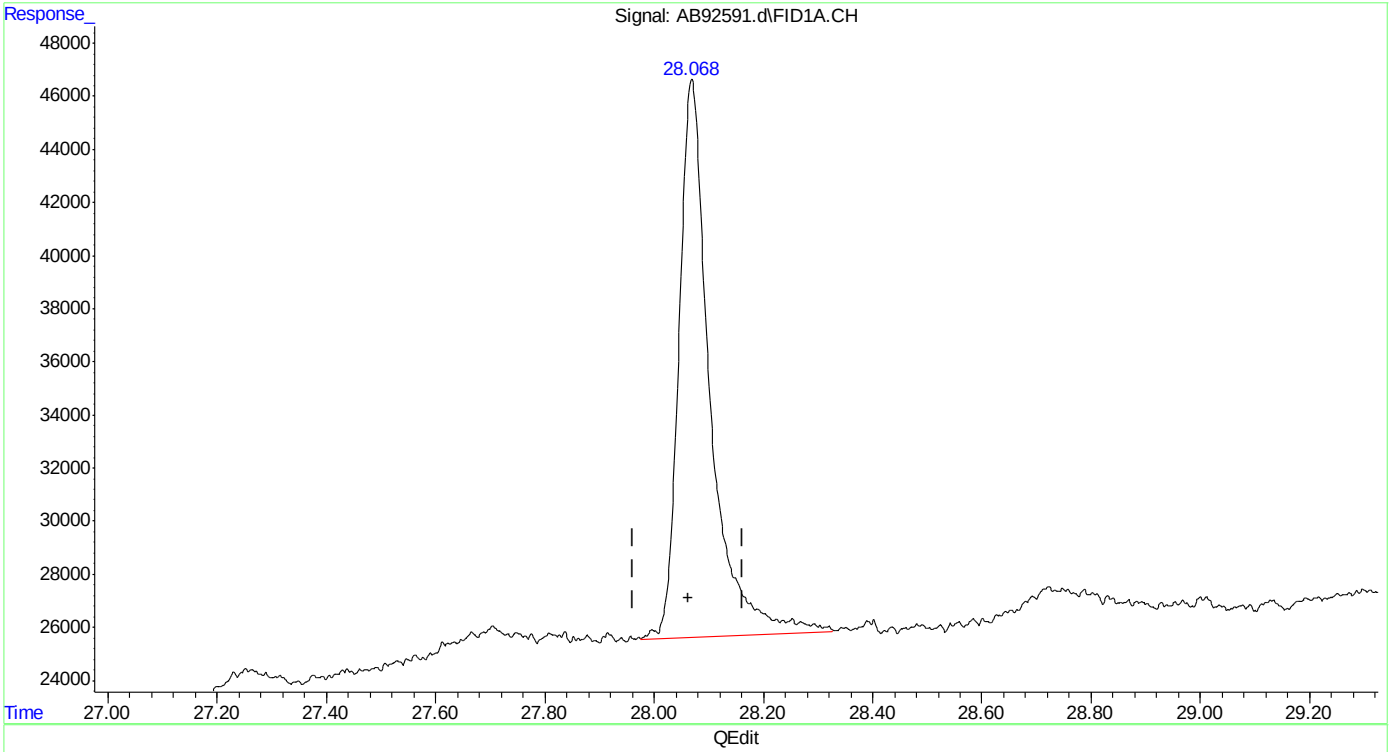
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene

28.068min 2.234 ppb m

response 834686

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:24:53 2016



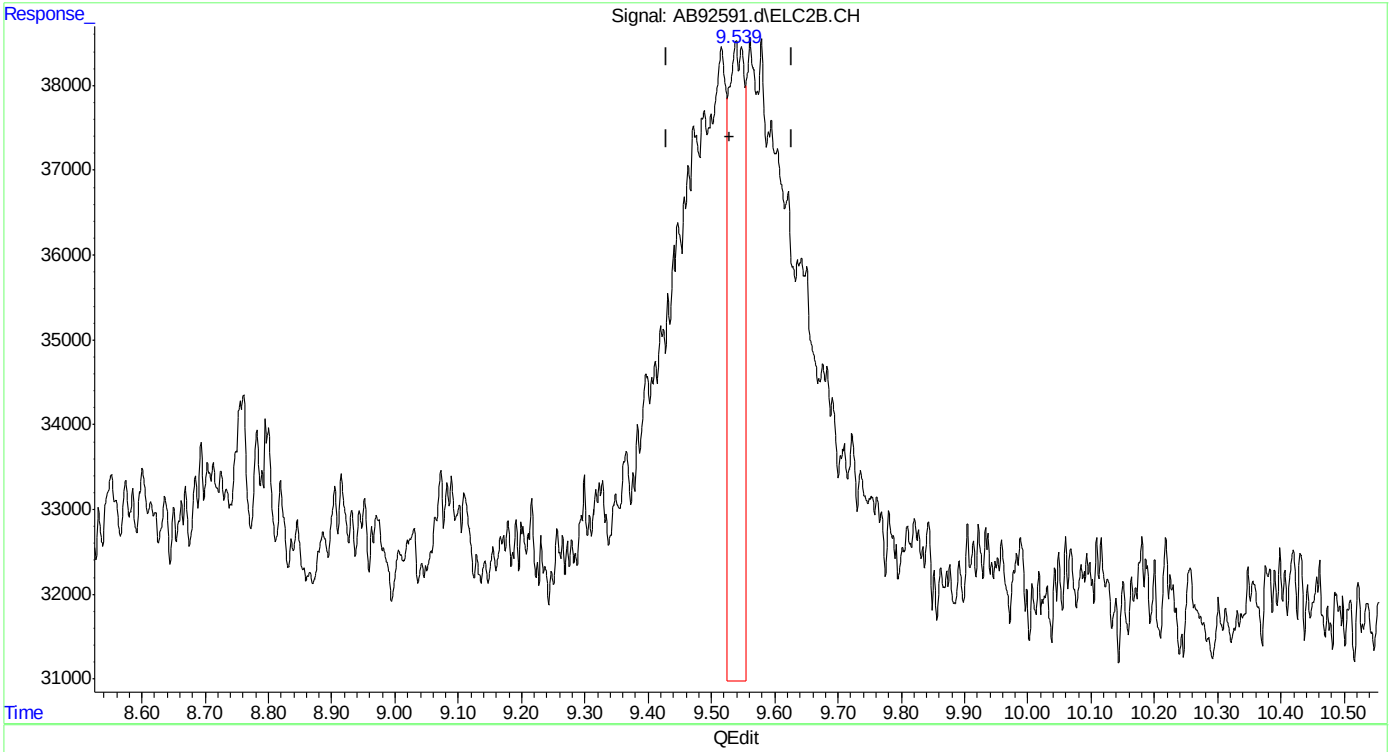
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.539min 0.241 ppb
response 125090

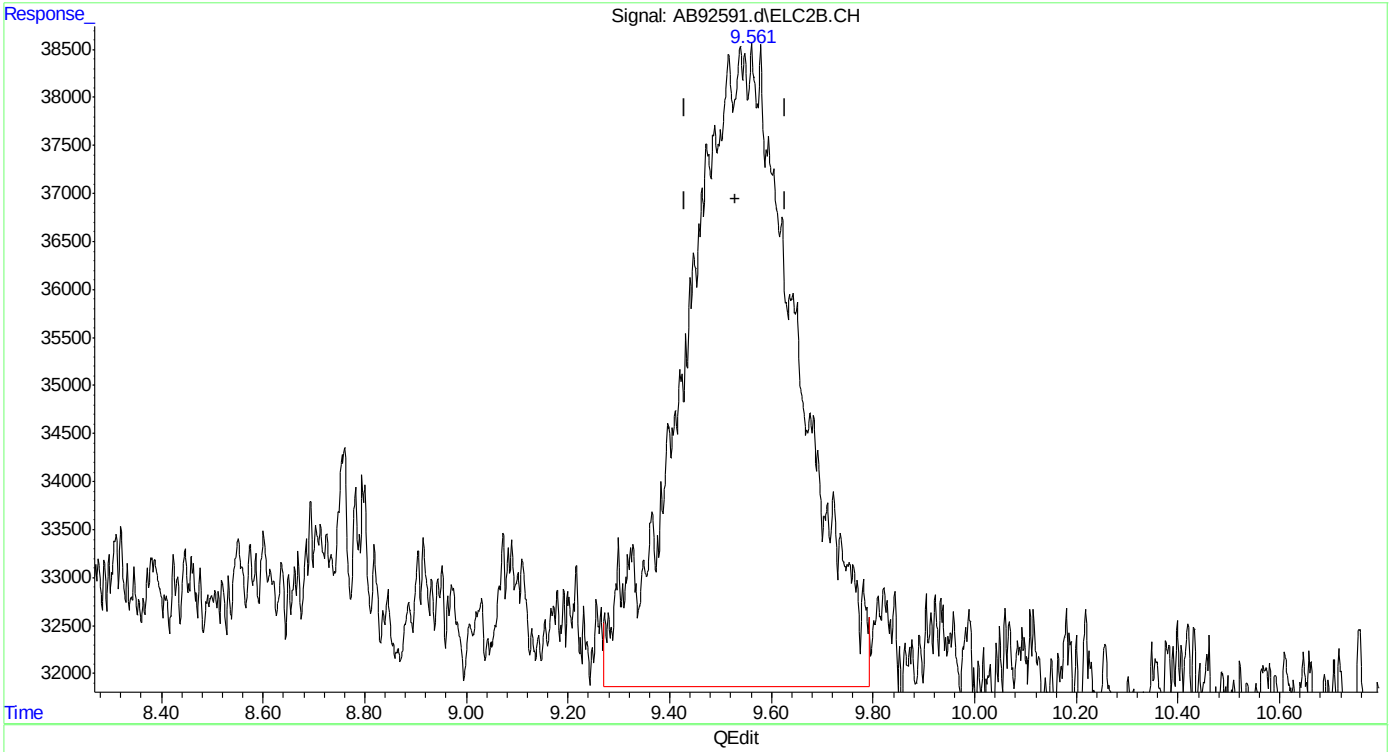
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:03 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




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

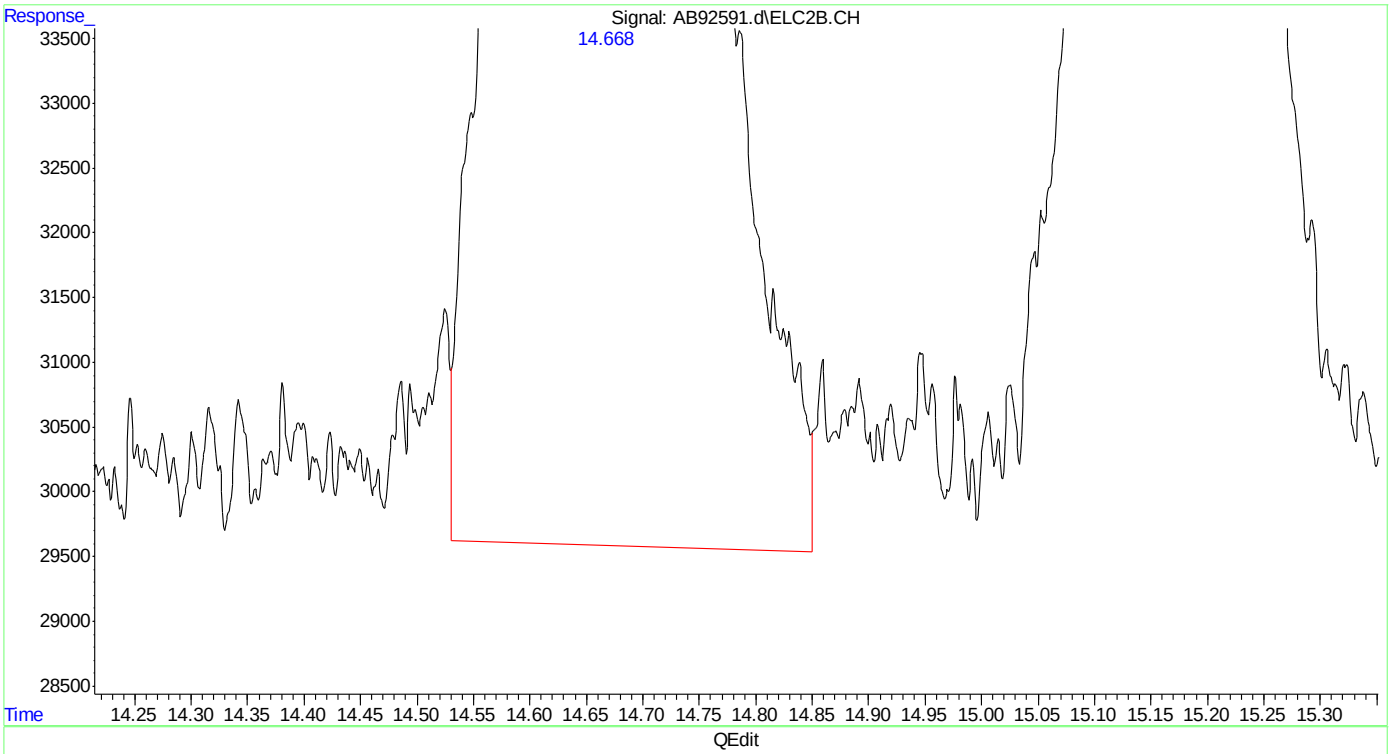
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:26 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2
14.667min 1.846 ppb
response 2587232

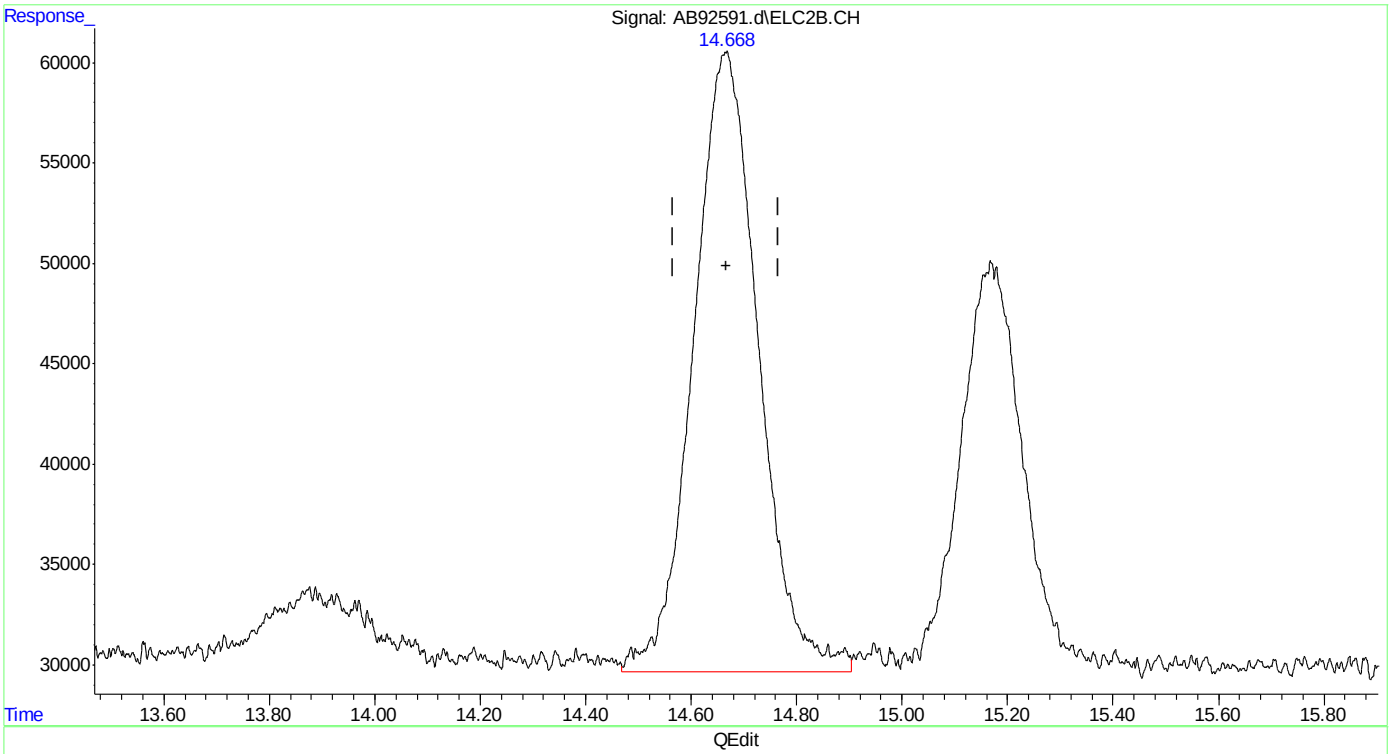
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:25:31 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2

14.668min 1.883 ppb m

response 2639435

(+) = Expected Retention Time

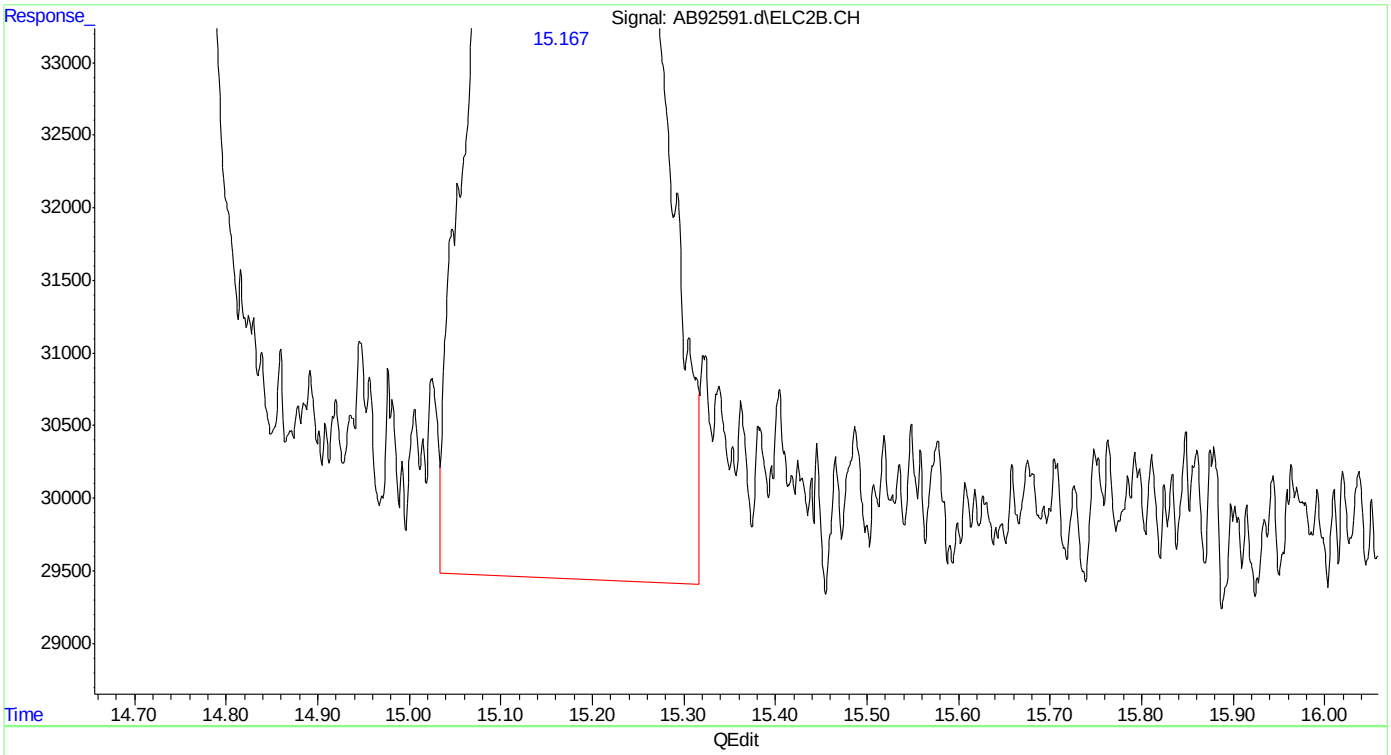
ab160112vphmaster.M Tue Jan 12 13:26:00 2016 Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.168min 1.912 ppb
response 1672167

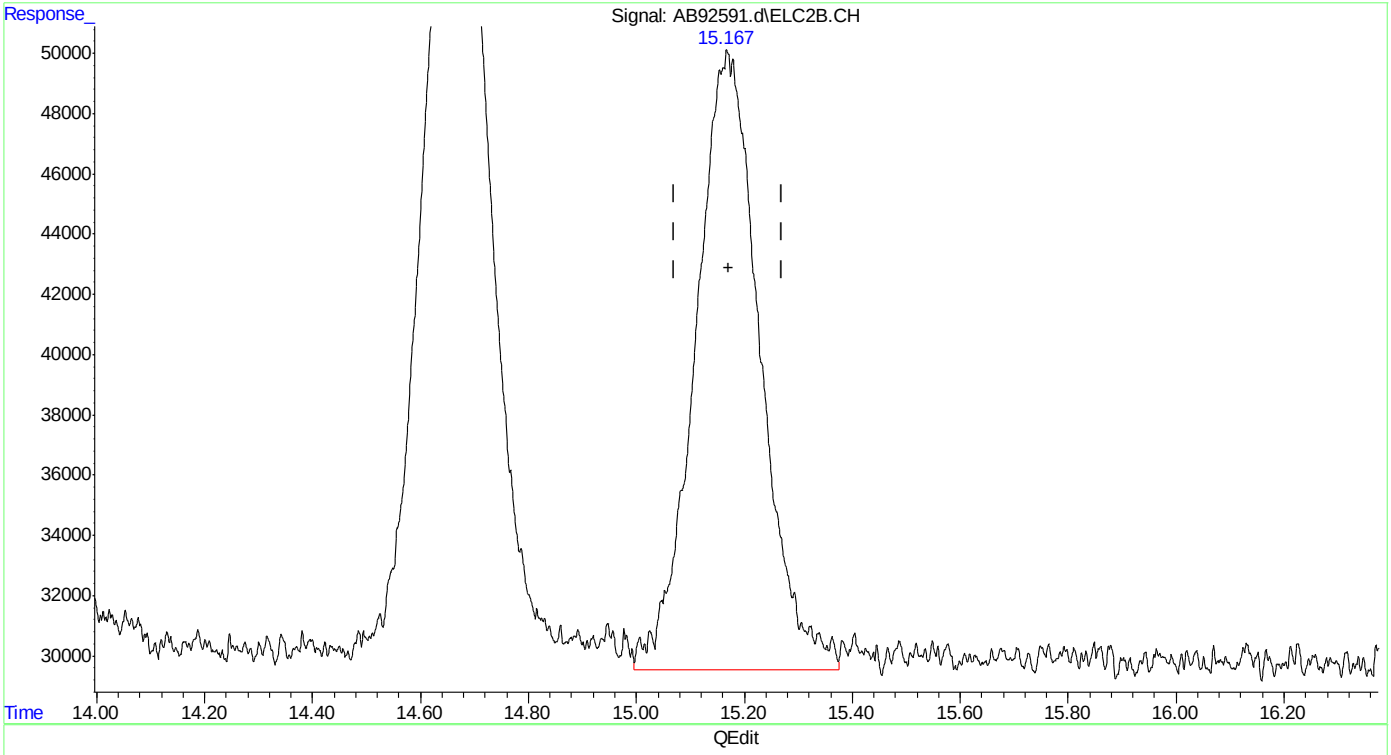
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.167min 1.949 ppb m
response 1704376

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

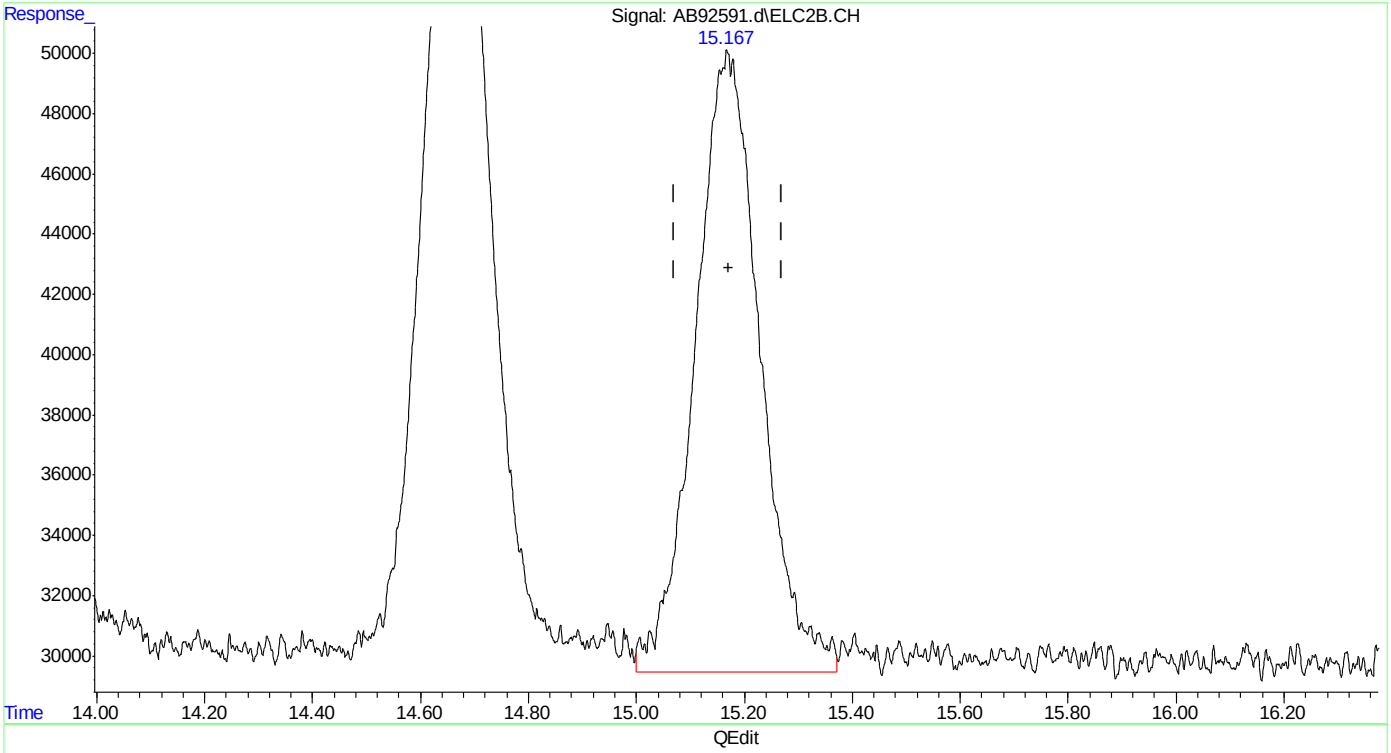

SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.167min 1.968 ppb m
response 1721246

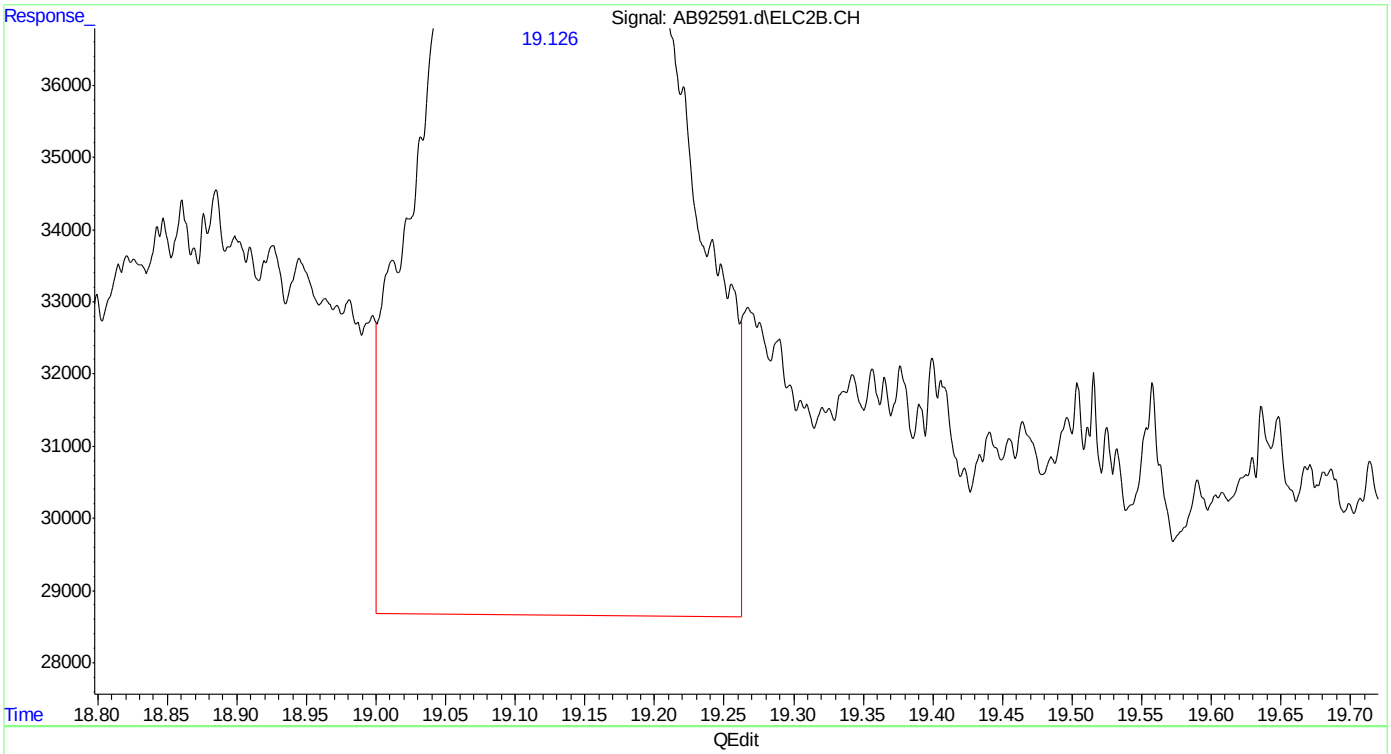
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.126min 2.210 ppb
response 2694419

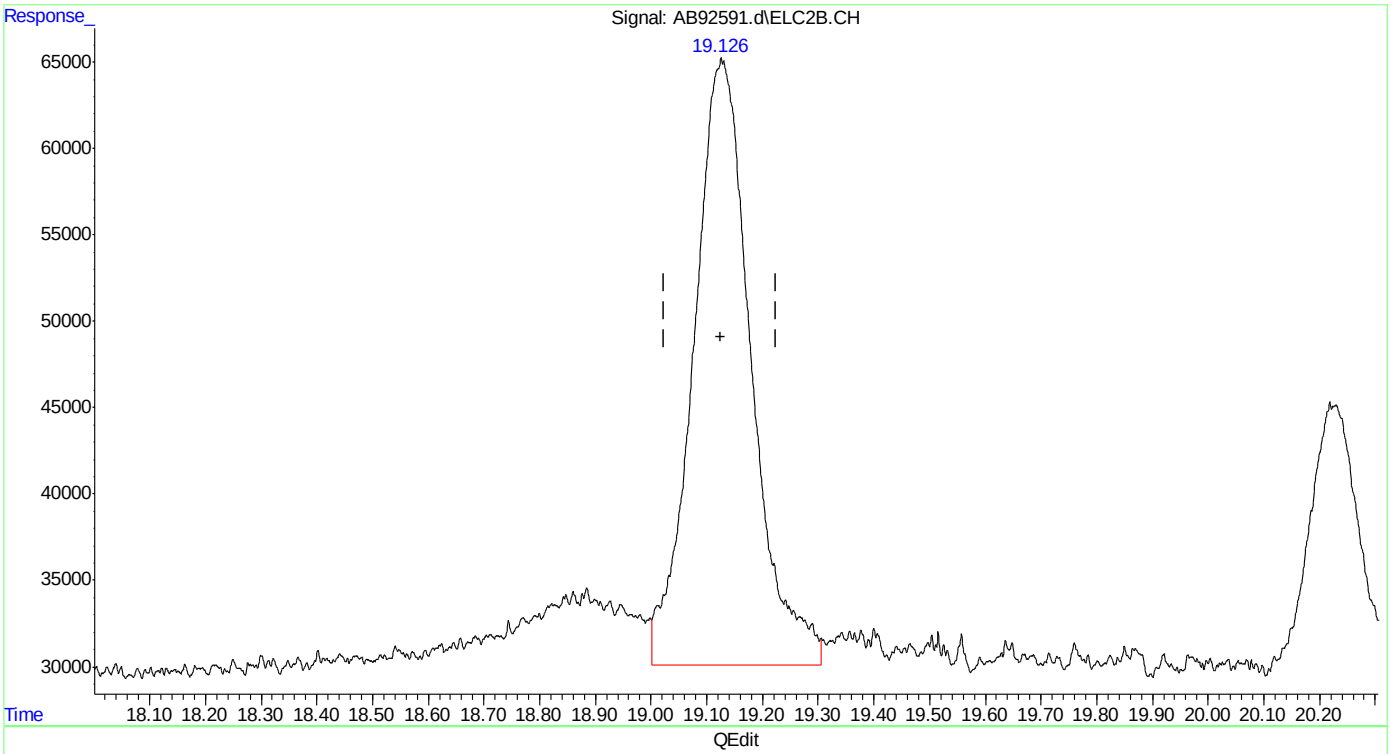
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:28 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.126min 2.070 ppb m
response 2524690

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:26:37 2016



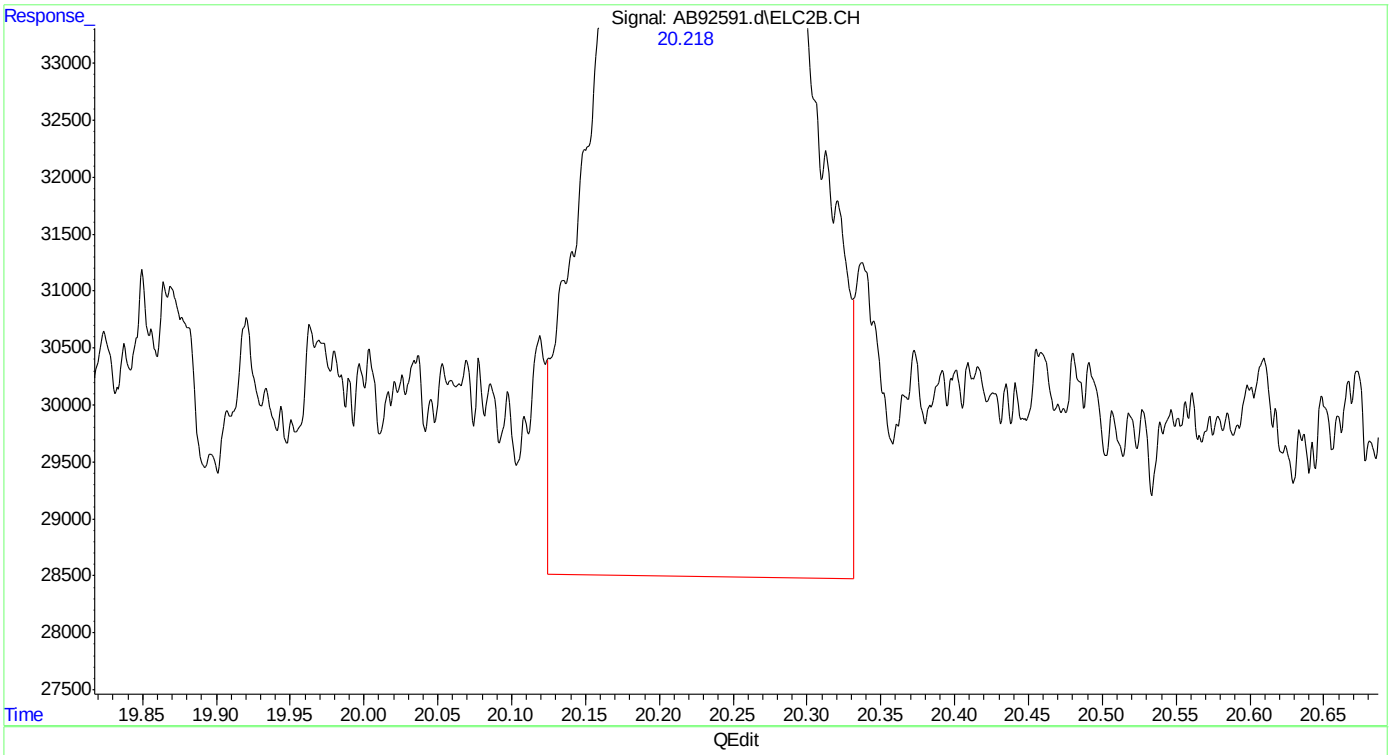
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.219min 2.302 ppb
response 1091509

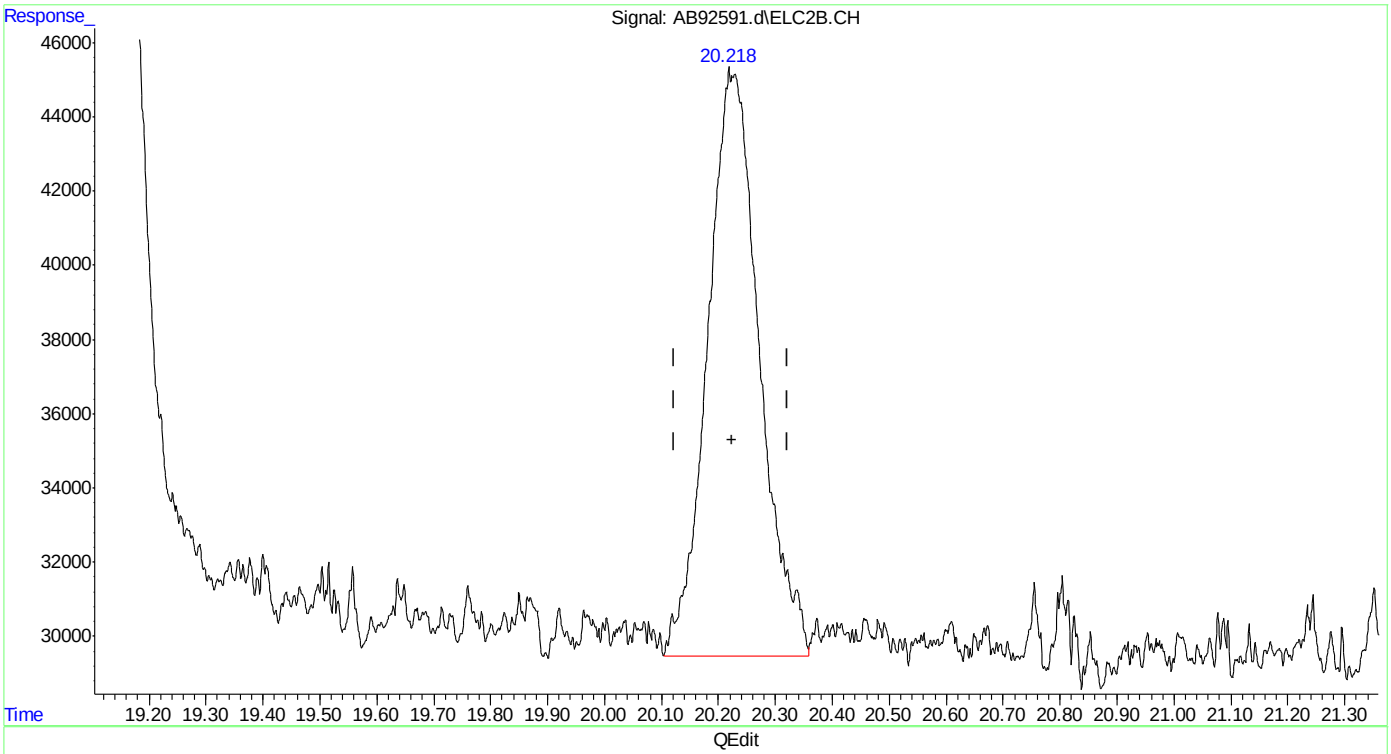
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.218min 2.099 ppb m
response 995138

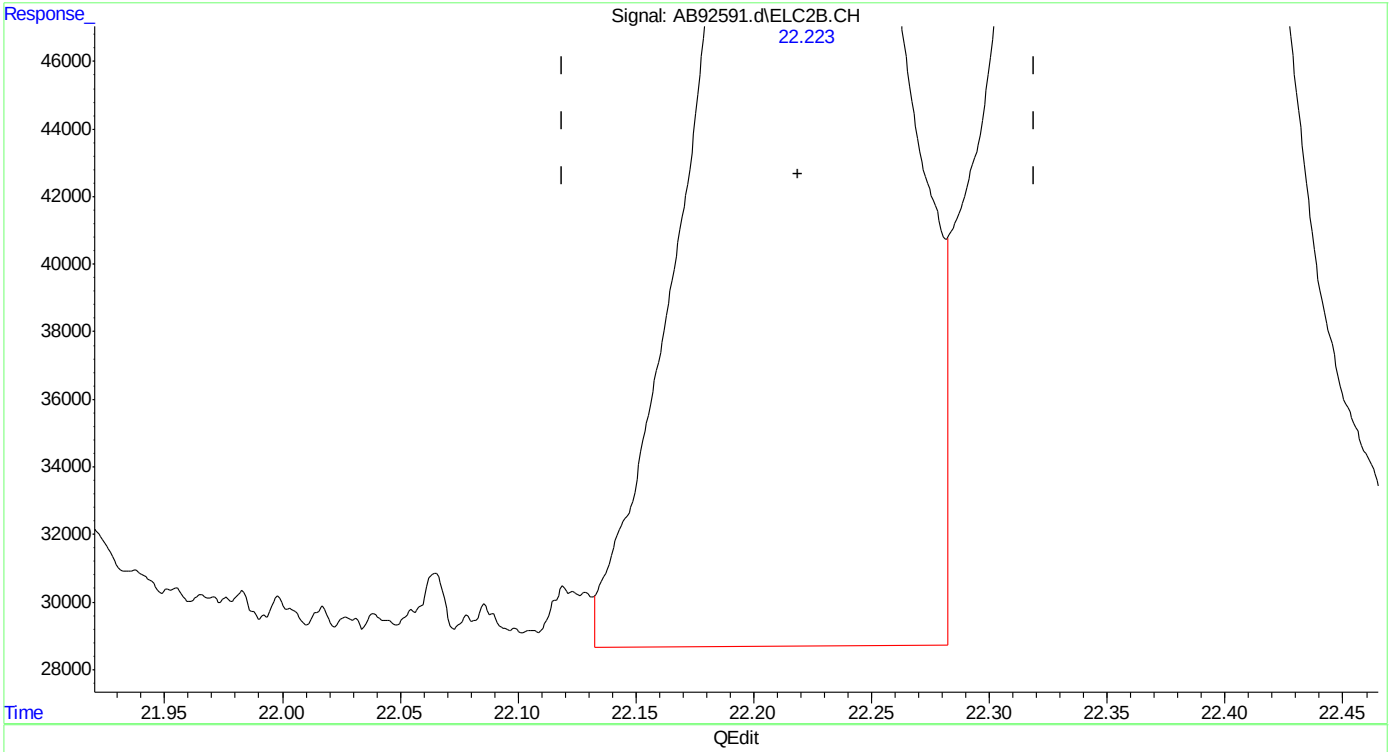
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2

22.222min 1.851 ppb

response 1847401

(+) = Expected Retention Time

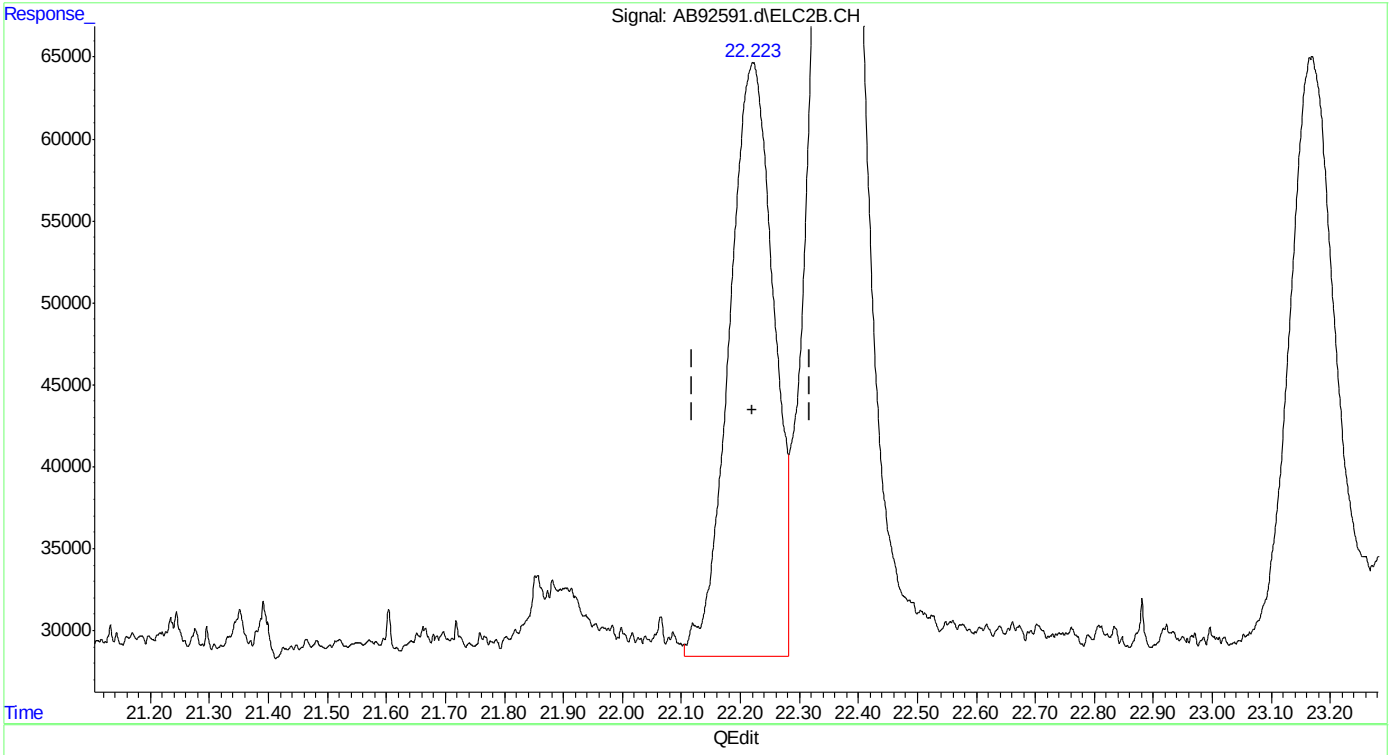
ab160112vphmaster.M Tue Jan 12 13:27:11 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2
22.223min 1.893 ppb m
response 1889943

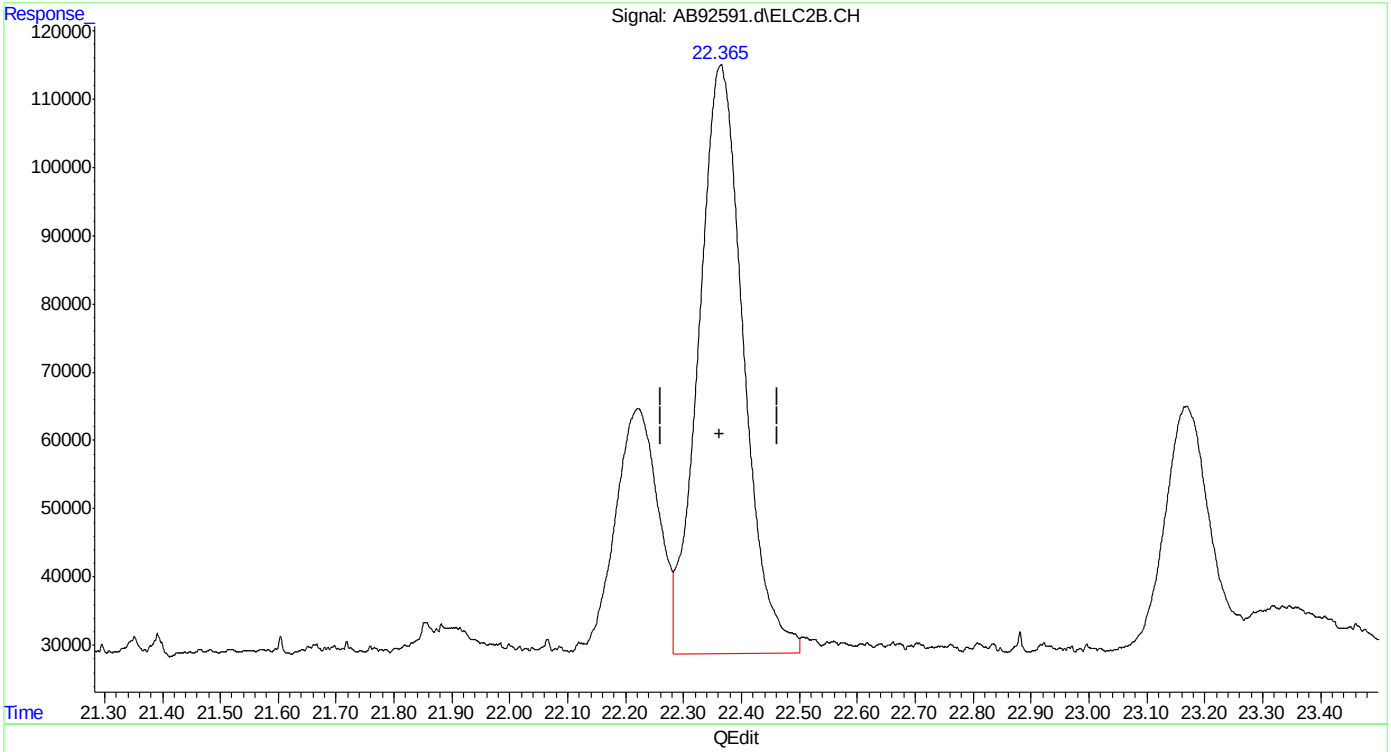
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:31 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(29) m,p-xylene #2
22.364min 3.774 ppb
response 4626142

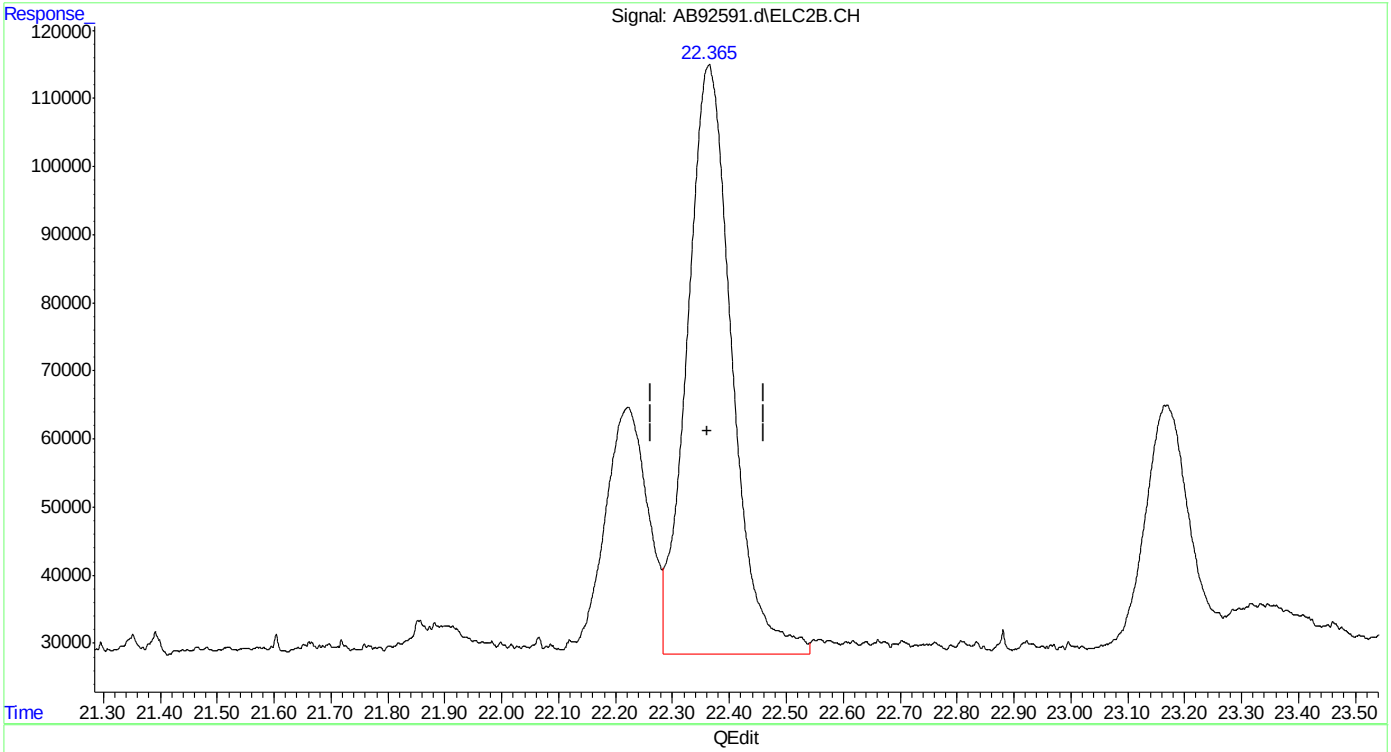
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:34 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(29) m,p-xylene #2
22.365min 3.849 ppb m
response 4718026

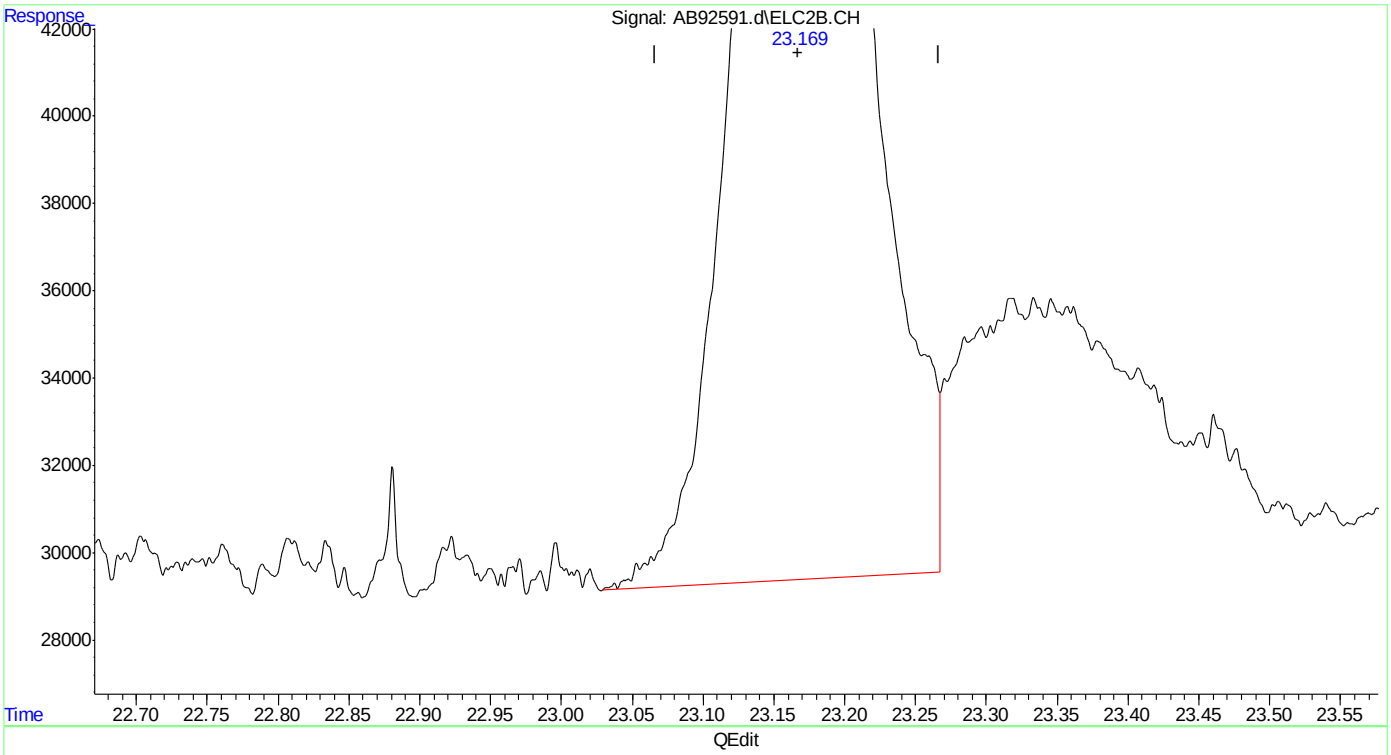
(+) = Expected Retention Time

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(30) o-xylene #2
23.169min 1.902 ppb
response 1923475

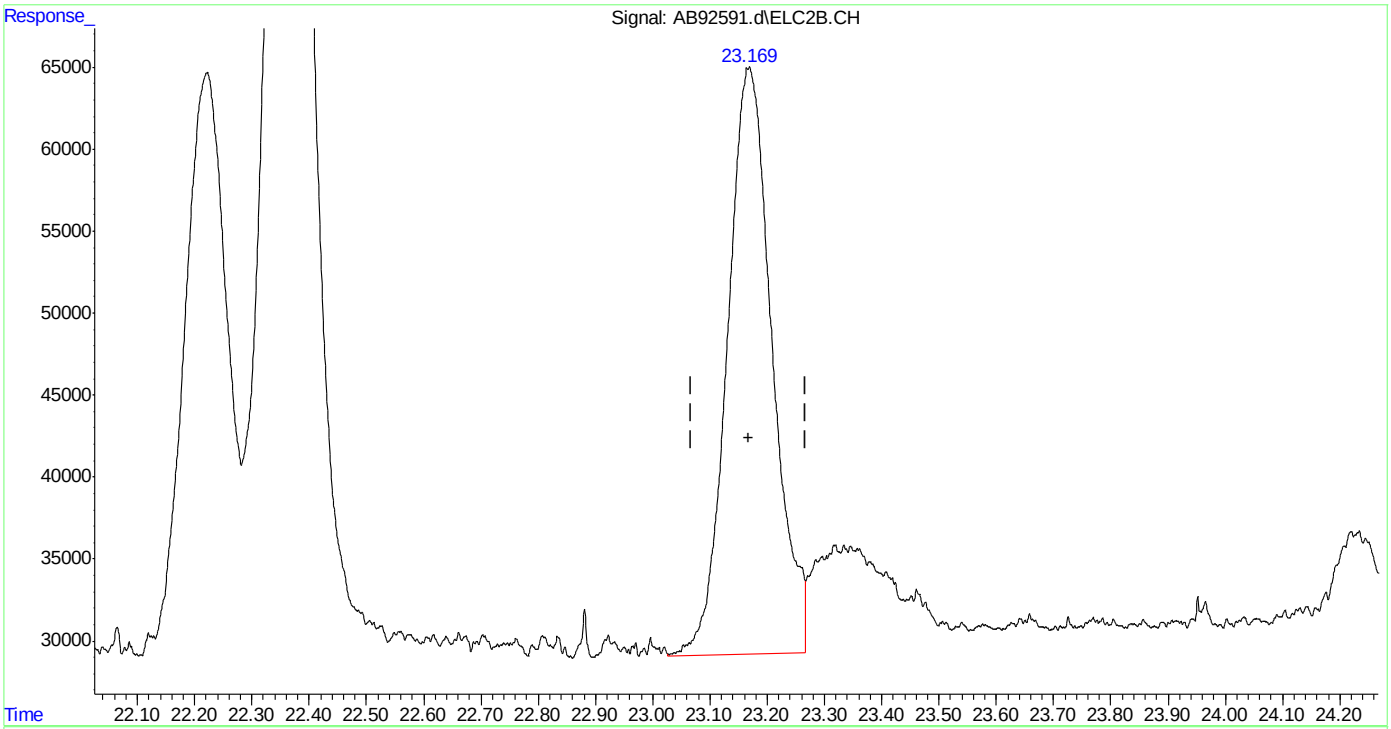
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:27:48 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(30) o-xylene #2

23.169min 1.927 ppb m

response 1948764

(+) = Expected Retention Time

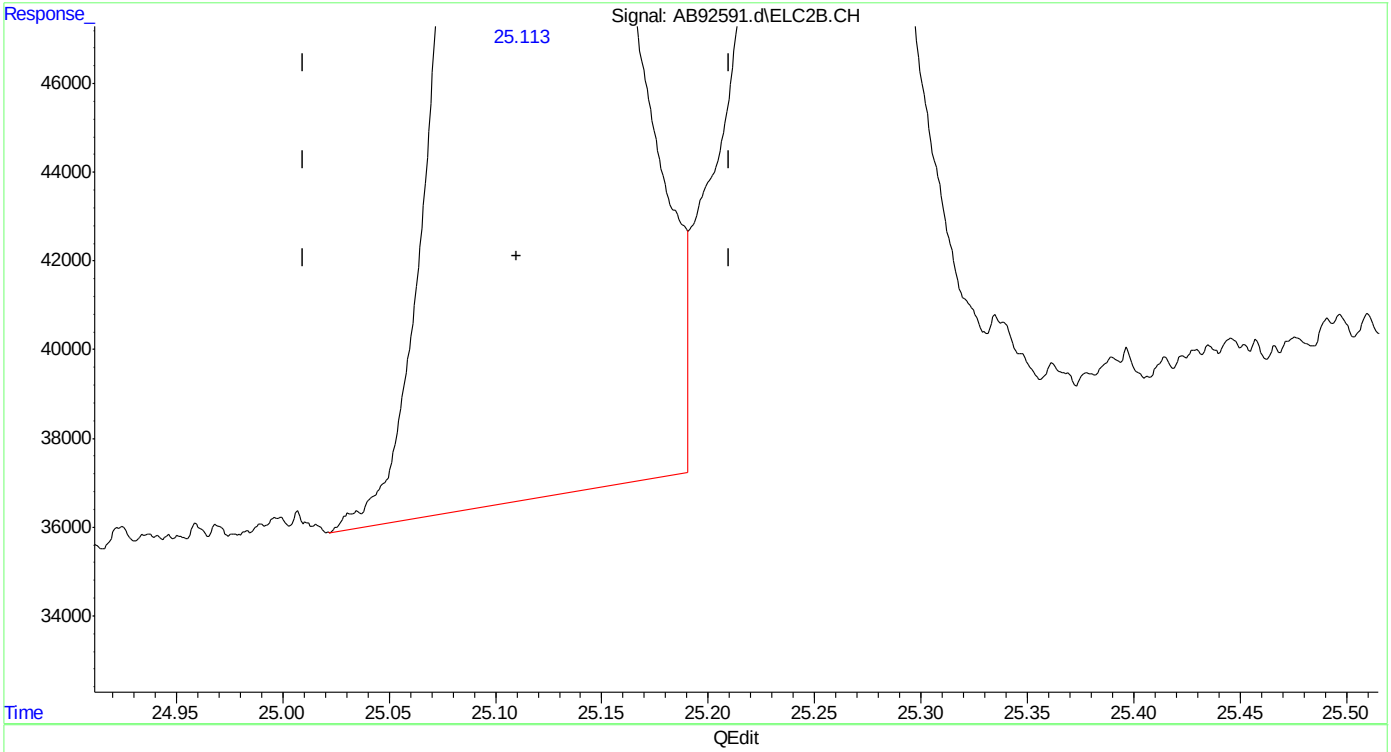
ab160112vphmaster.M Tue Jan 12 13:27:55 2016 Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.113min 1.893 ppb
response 2008192

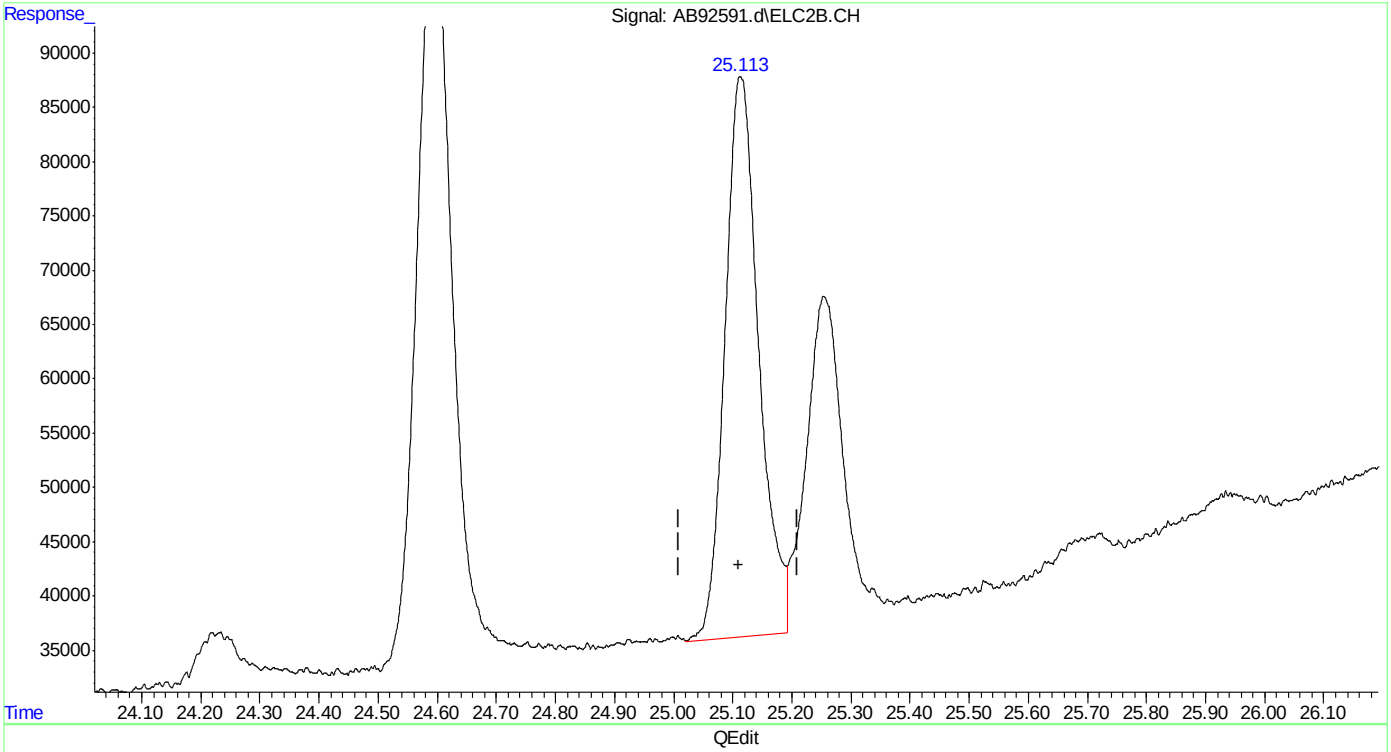
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:01 2016  Page: 1

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.113min 1.940 ppb m
response 2057662

(+) = Expected Retention Time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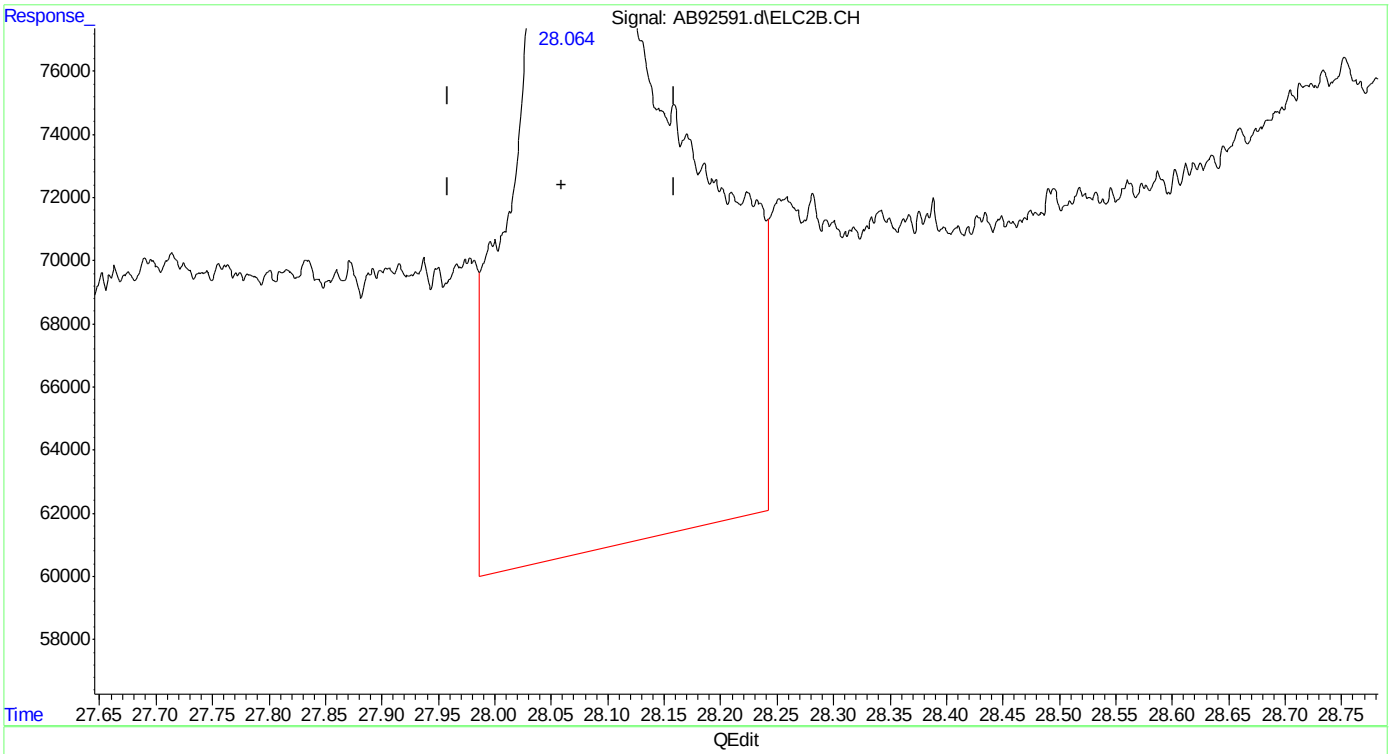
Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.066min 3.878 ppb
response 3167219

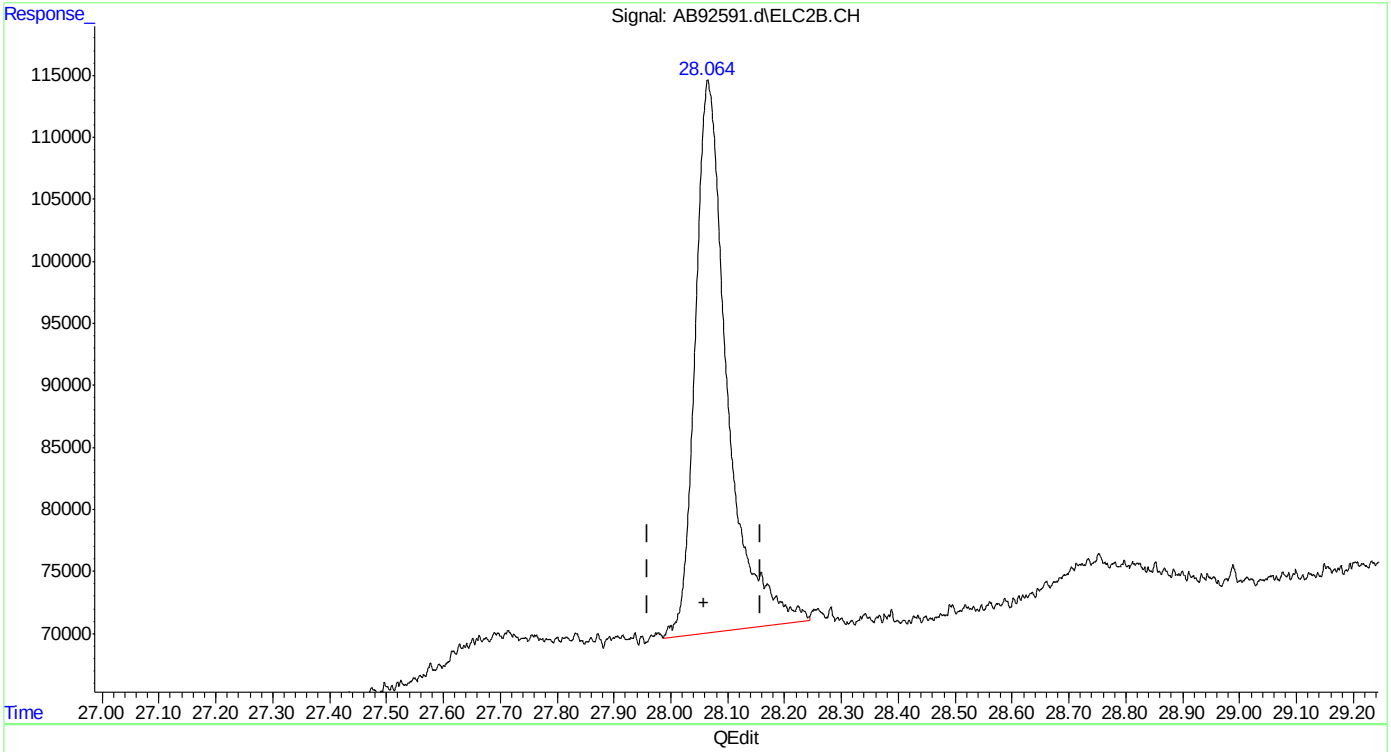
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:28:43 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:18:20 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 12:46:58 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.064min 2.137 ppb m
response 1745023

(+) = Expected Retention Time



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

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc Units |
|---|---|---|---|
| System Monitoring Compounds | | | |
| 6) s fluorobenzene | 15.169 | 468381 | 1.065 ppb m |
| Spiked Amount 50.000 | | Recovery = | 2.13% |
| 9) s 2,3,4-trifluorotoluene | 20.232 | 457239 | 1.099 ppb |
| Spiked Amount 50.000 | | Recovery = | 2.20% |
| 25) s fluorobenzene #2 | 15.174 | 871999 | 1.001 ppb m |
| Spiked Amount 50.000 | | Recovery = | 2.00% |
| 27) s 2,3,4-trifluorotoluen... | 20.241 | 500356 | 1.042 ppb m |
| Spiked Amount 50.000 | | Recovery = | 2.08% |
| Target Compounds | | | |
| 1) h rt5.5-7 | 6.370 | 423417 | 1.126 ppb m |
| 2) h rt7/10 | 8.710 | 474249 | 1.098 ppb m |
| 3) mtbe | 9.565 | 222666 | 1.009 ppb m |
| 4) h rt10/13 | 13.890 | 532157 | 1.086 ppb m |
| 5) benzene | 14.674 | 555388 | 1.000 ppb m |
| 8) toluene | 19.128 | 611960 | 1.001 ppb m |
| 11) h rt20/25 | 21.900 | 636900 | 1.023 ppb m |
| 13) ethylbenzene | 22.221 | 649345 | 1.001 ppb m |
| 14) m,p-xylene | 22.370 | 1369525 | 2.024 ppb m |
| 15) o-xylene | 23.175 | 672755 | 0.990 ppb m |
| 16) h decane | 24.230 | 652274 | 1.018 ppb m |
| 17) t 1,3,5-trimethylbenzene | 24.601 | 771508 | 1.064 ppb m |
| 18) 1,2,4-trimethylbenzene | 25.121 | 686719 | 1.002 ppb |
| 19) h butylcyclohexane | 25.263 | 784280 | 1.138 ppb m |
| 20) naphthalene | 28.077 | 459832 | 1.196 ppb m |
| 23) mtbe #2 | 9.540 | 515933 | 1.000 ppb m |
| 24) benzene #2 | 14.661 | 1385814 | 1.003 ppb m |
| 26) toluene #2 | 19.126 | 1234262 | 1.003 ppb m |
| 28) ethylbenzene #2 | 22.219 | 964169 | 0.979 ppb m |
| 29) m,p-xylene #2 | 22.369 | 2432291 | 2.003 ppb m |
| 30) o-xylene #2 | 23.170 | 1005511 | 1.003 ppb |
| 31) t 1,3,5-trimethylbenzen... | 24.599 | 1489937 | 1.038 ppb |
| 32) 1,2,4-trimethylbenzen... | 25.121 | 1052080 | 0.999 ppb m |
| 33) naphthalene #2 | 28.075 | 922848 | 1.111 ppb m |
| 34) h c9-c10 arom as 1,2,4-tmb | 25.160 | 1056385 | 1.002 ppb m |

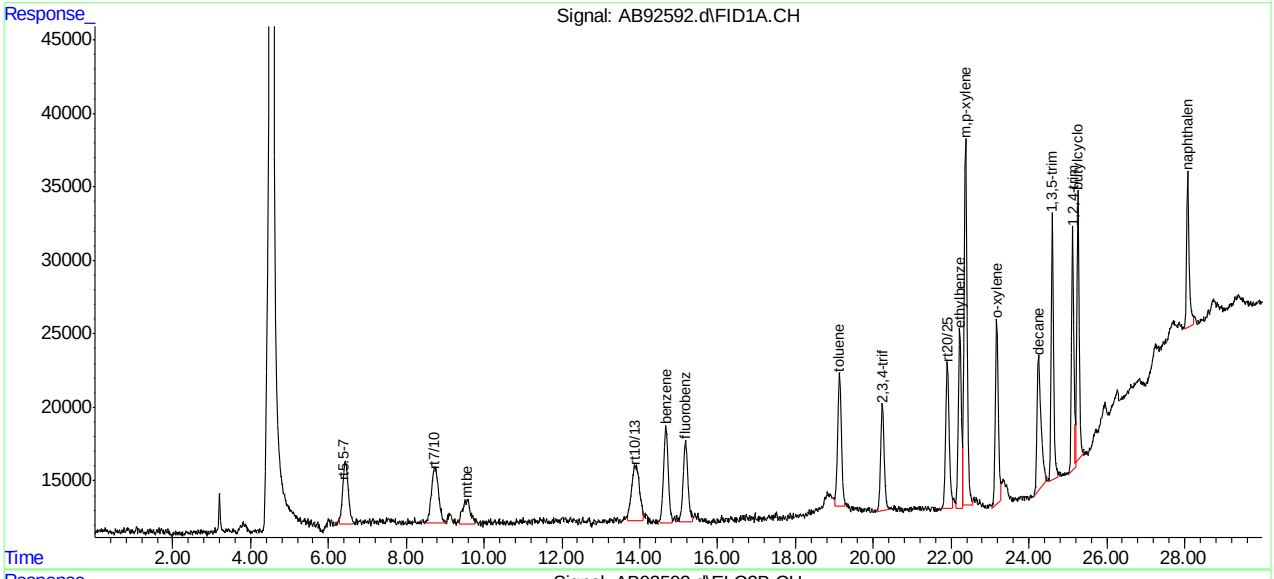
(f)=RT Delta > 1/2 Window (m)=manual int.

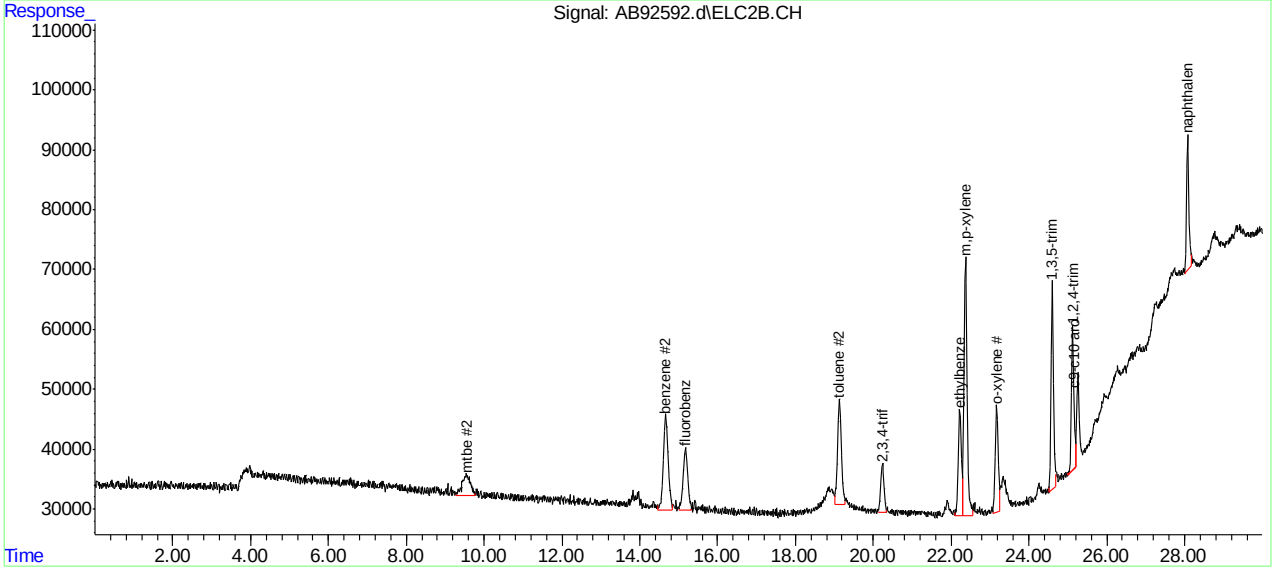
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 14:20:16 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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







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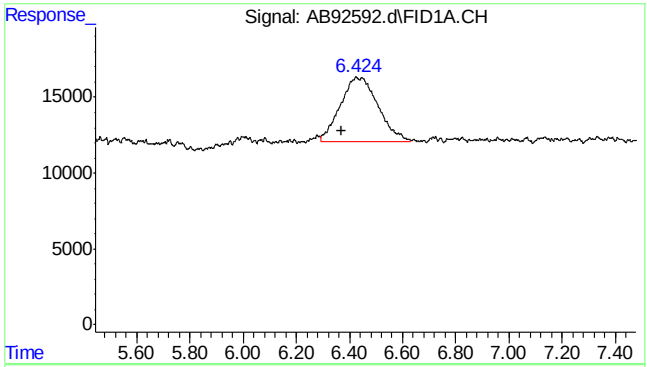
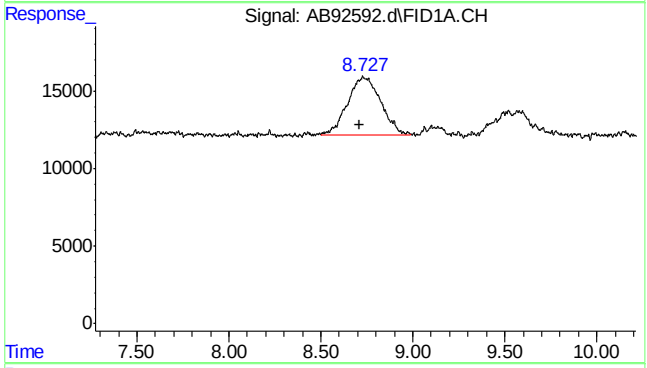


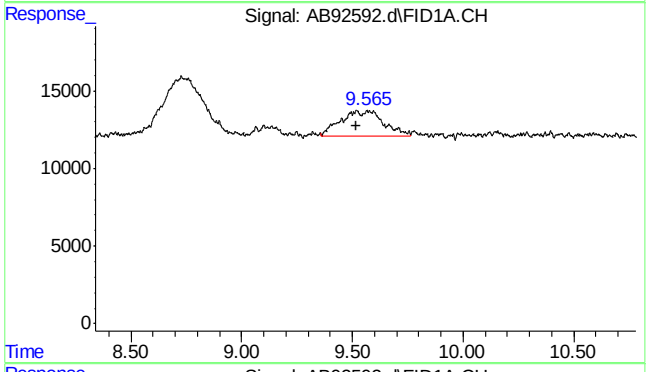

#1 rt5.5-7

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



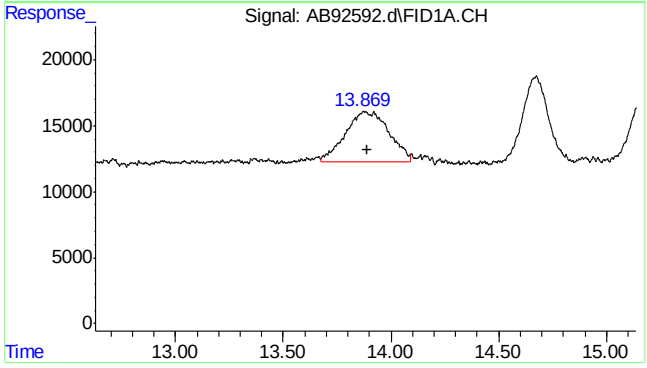

#2 rt7/10

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



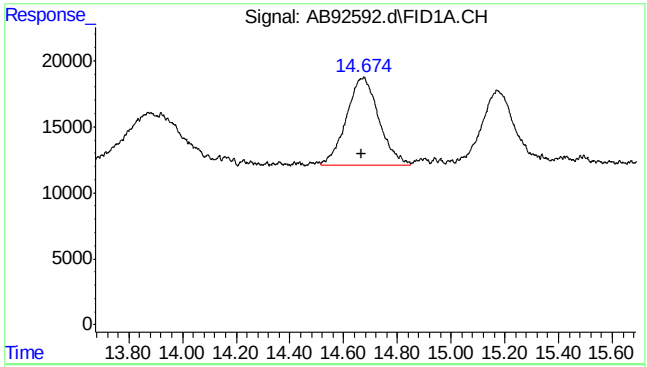

#3 mtbe

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



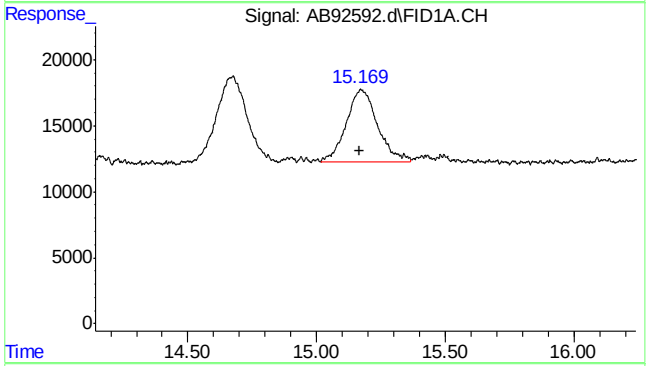

#4 rt10/13

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



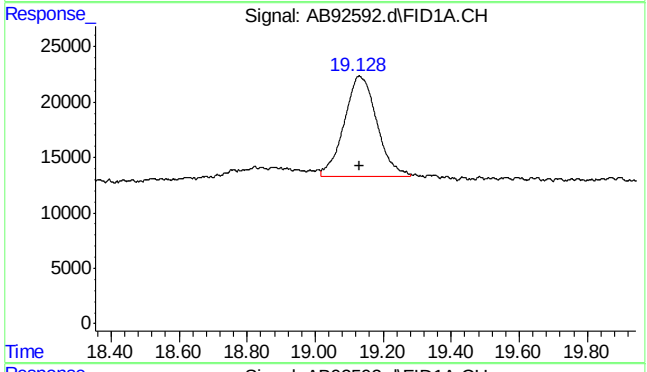

#5 benzene

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



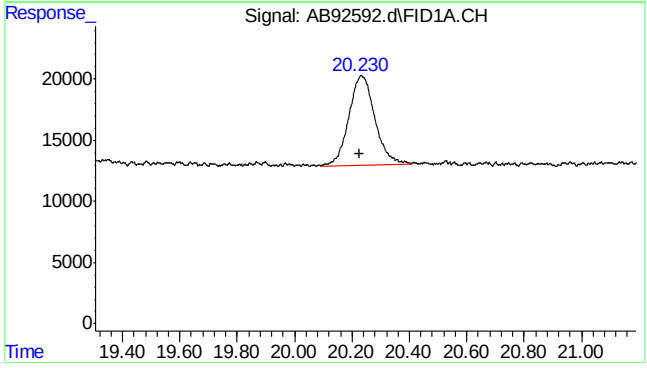

#6 fluorobenzene

R.T.: 15.169 min
Delta R.T.: 0.004 min
Response: 468381
Conc: 1.06 ppb m




#8 toluene

R.T.: 19.128 min
Delta R.T.: 0.000 min
Response: 611960
Conc: 1.00 ppb m




#9 2,3,4-trifluorotoluene

R.T.: 20.232 min
Delta R.T.: 0.004 min
Response: 457239
Conc: 1.10 ppb

7.5.9

7



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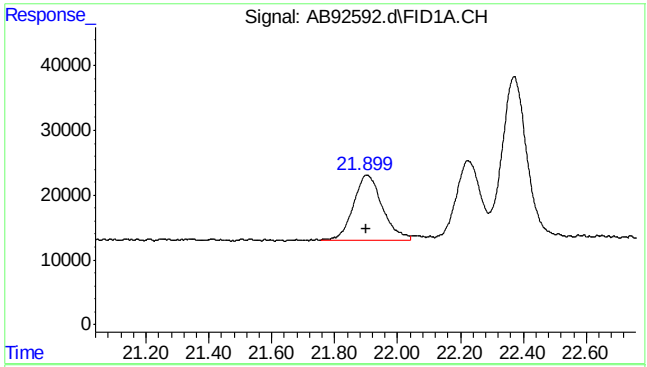
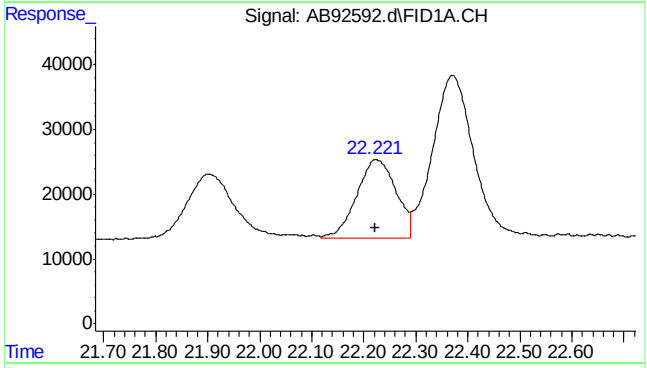


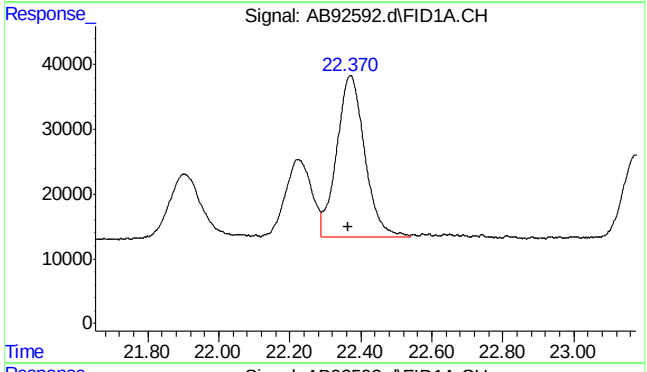

#11 rt20/25

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



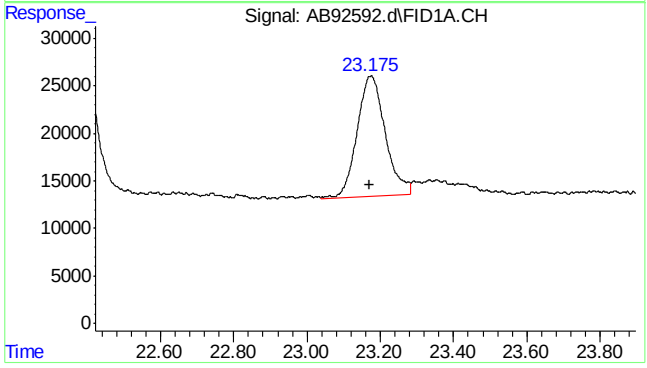

#13 ethylbenzene

```
      R.T.:   22.221 min
Delta R.T.:   -0.002 min
  Response:    649345
      Conc:   1.00 ppb m
```




#14 m,p-xylene

```
      R.T.:   22.370 min
Delta R.T.:    0.005 min
  Response:   1369525
      Conc:   2.02 ppb m
```




#15 o-xylene

```
      R.T.:   23.175 min
Delta R.T.:    0.005 min
  Response:    672755
      Conc:   0.99 ppb m
```





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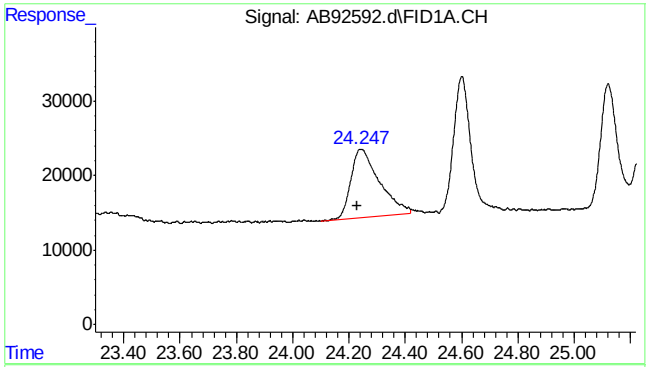
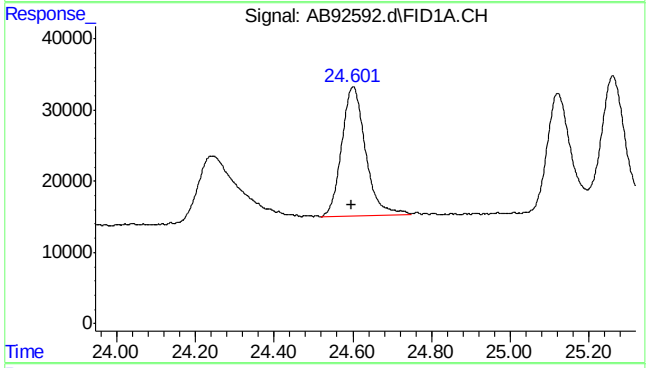


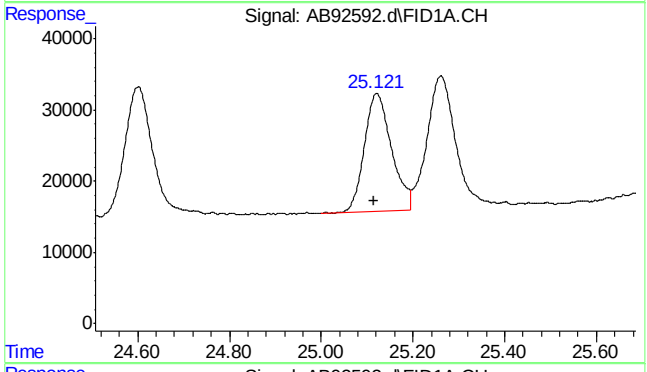

#16 decane

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



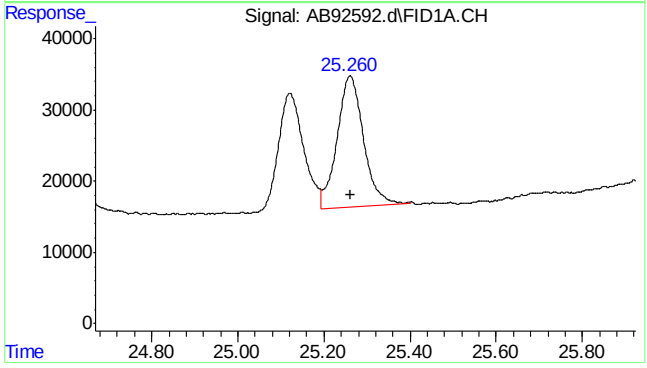

#17 1,3,5-trimethylbenzene

R.T.: 24.601 min
Delta R.T.: 0.005 min
Response: 771508
Conc: 1.06 ppb m




#18 1,2,4-trimethylbenzene

R.T.: 25.121 min
Delta R.T.: 0.006 min
Response: 686719
Conc: 1.00 ppb




#19 butylcyclohexane

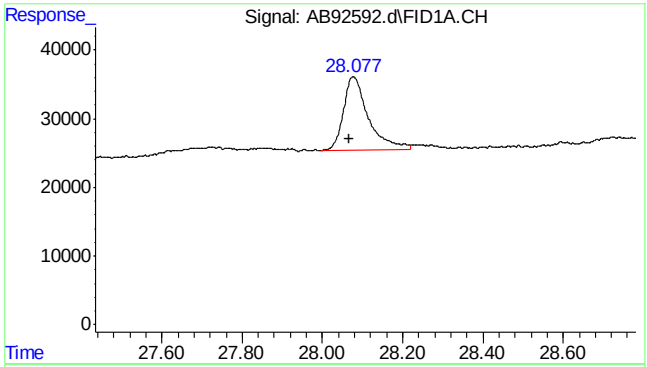
R.T.: 25.263 min
Delta R.T.: 0.000 min
Response: 784280
Conc: 1.14 ppb m

7.5.9

7

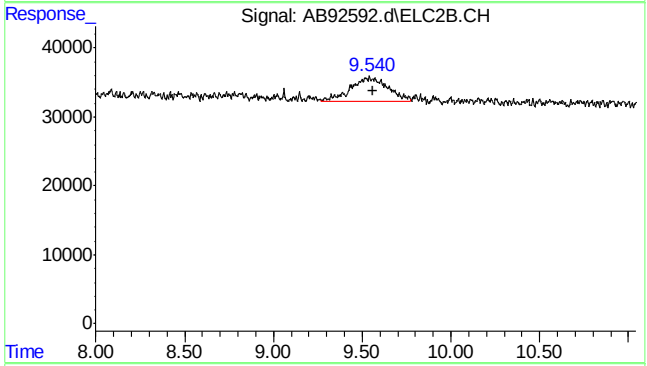


SGS ACCUTEST MC46487



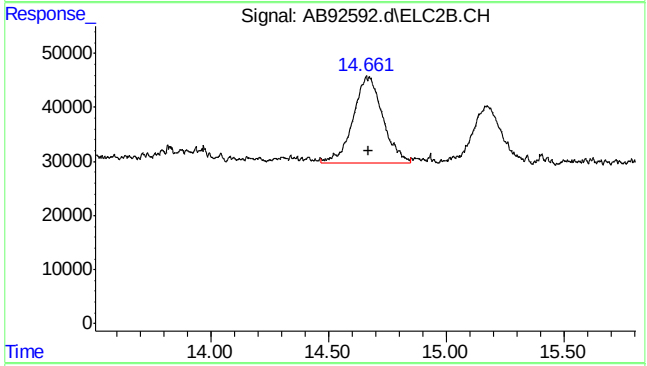

#20 naphthalene

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



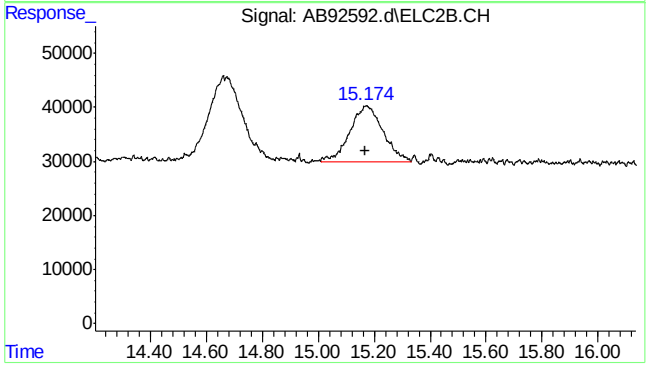

#23 mtbe #2

R.T.: 9.540 min
Delta R.T.: -0.021 min
Response: 515933
Conc: 1.00 ppb m




#24 benzene #2

R.T.: 14.661 min
Delta R.T.: -0.007 min
Response: 1385814
Conc: 1.00 ppb m



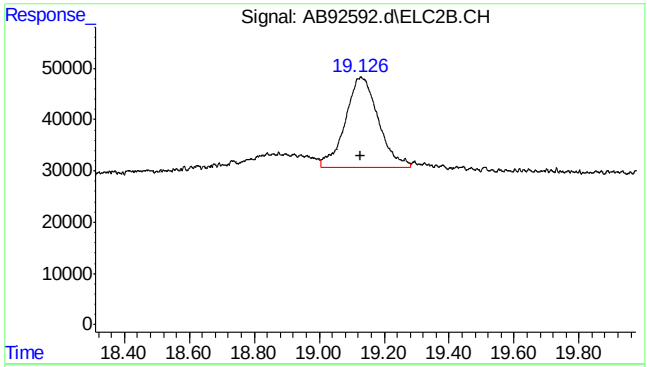

#25 fluorobenzene #2

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



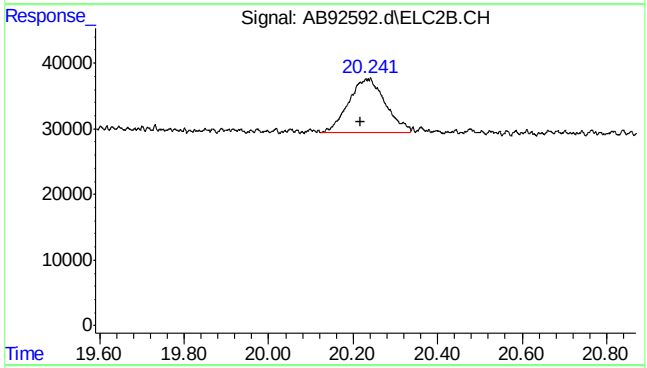


SGS ACCUTEST MC46487



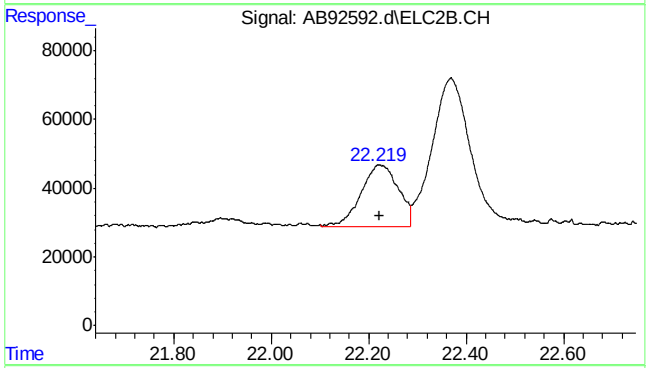

#26 toluene #2

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



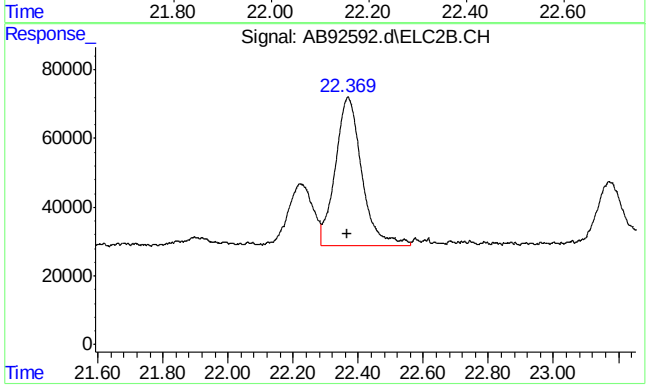

#27 2,3,4-trifluorotoluene #2

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



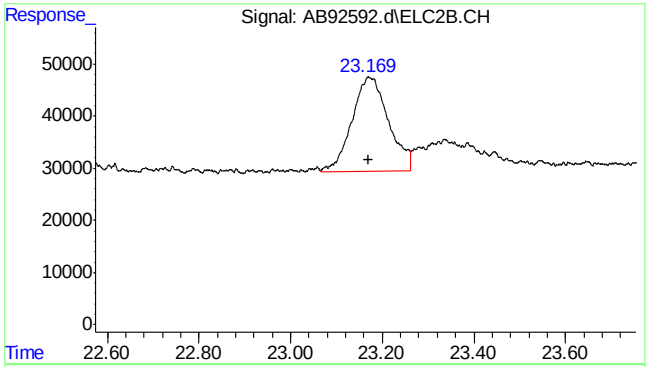

#28 ethylbenzene #2

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



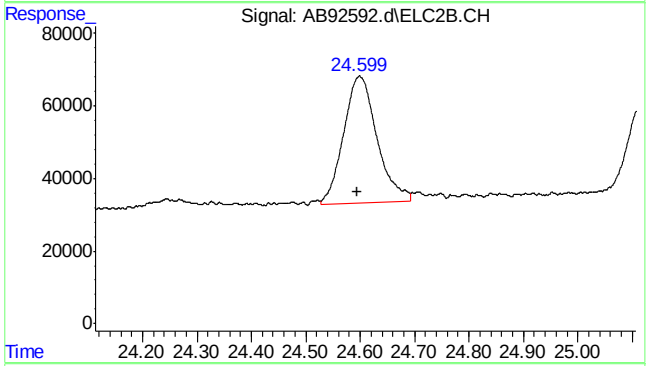

#29 m,p-xylene #2

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



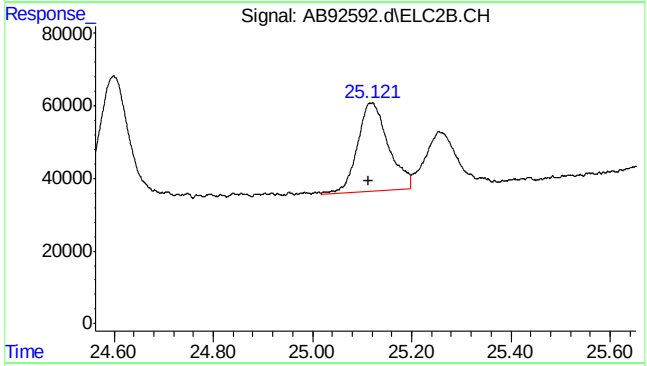

#30 o-xylene #2

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



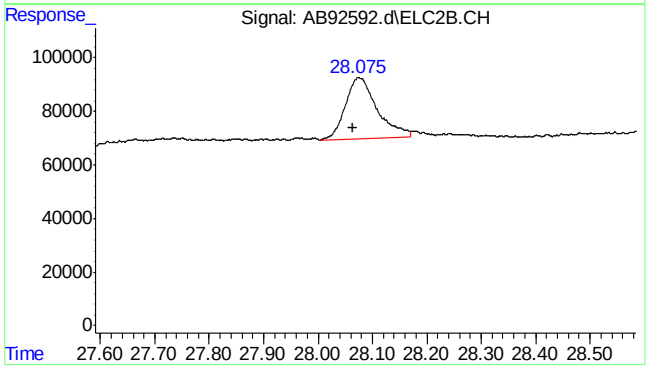

#31 1,3,5-trimethylbenzene #2

R.T.: 24.599 min
Delta R.T.: 0.004 min
Response: 1489937
Conc: 1.04 ppb




#32 1,2,4-trimethylbenzene #2

R.T.: 25.121 min
Delta R.T.: 0.008 min
Response: 1052080
Conc: 1.00 ppb m




#33 naphthalene #2

R.T.: 28.075 min
Delta R.T.: 0.011 min
Response: 922848
Conc: 1.11 ppb m



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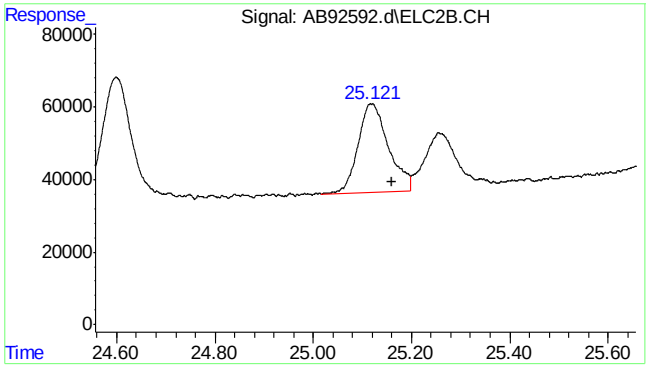


#34 c9-c10 arom as 1,2,4-tmb

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




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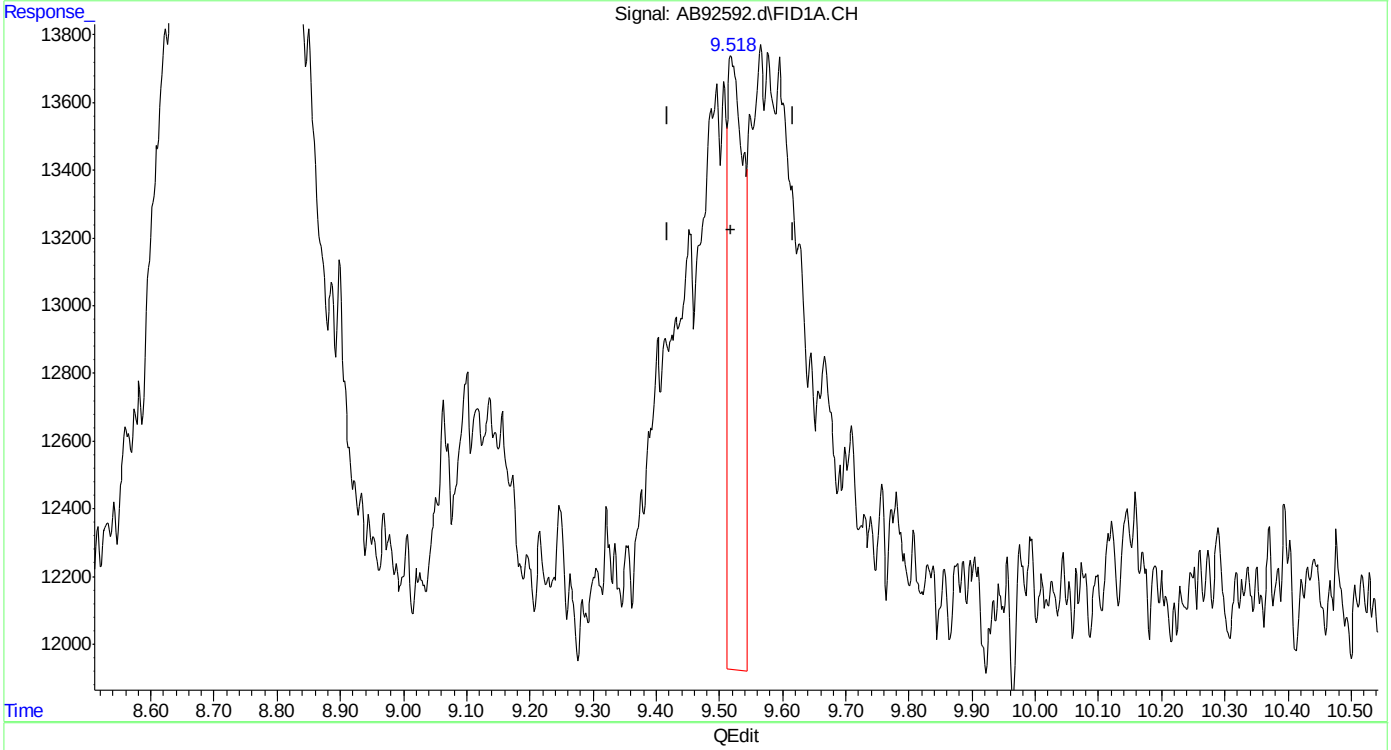
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.520min 0.148 ppb
response 32672

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:56:07 2016





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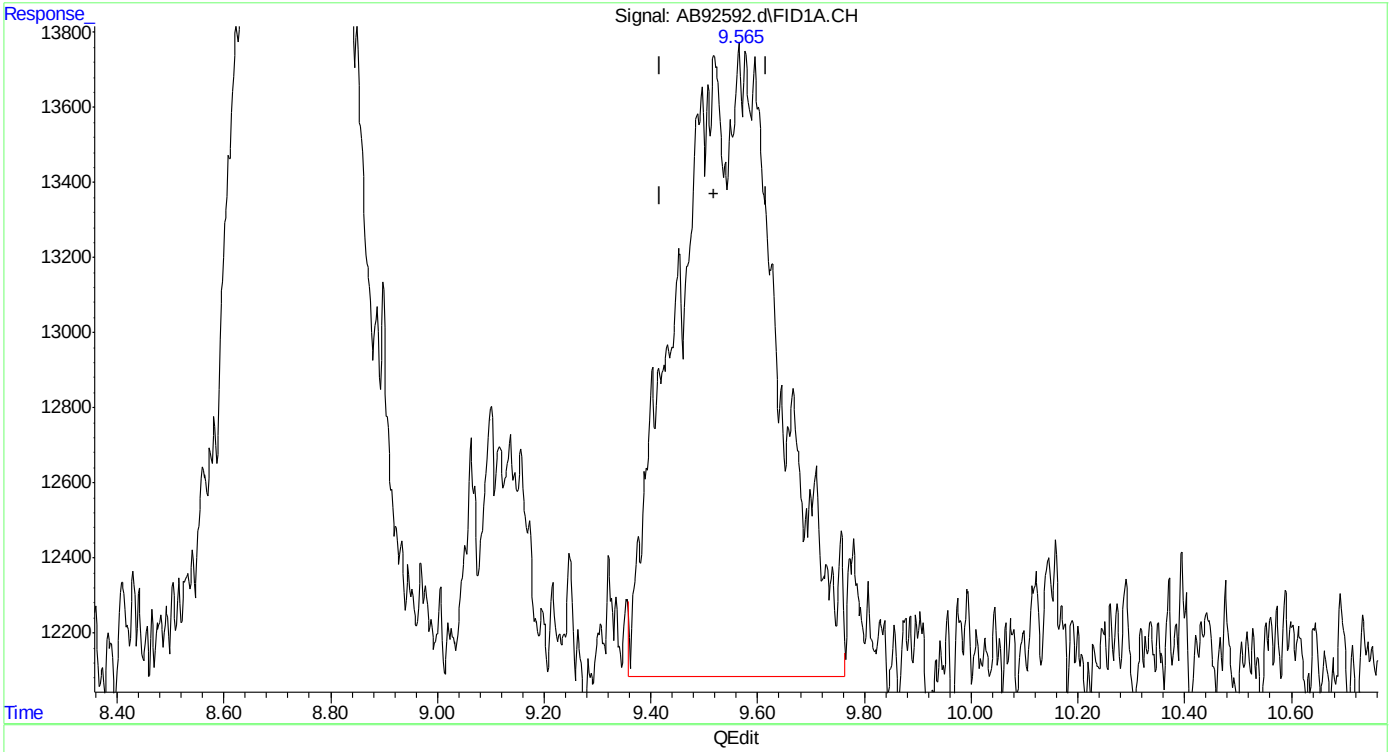
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(3) mtbe
9.565min 1.009 ppb m
response 222666

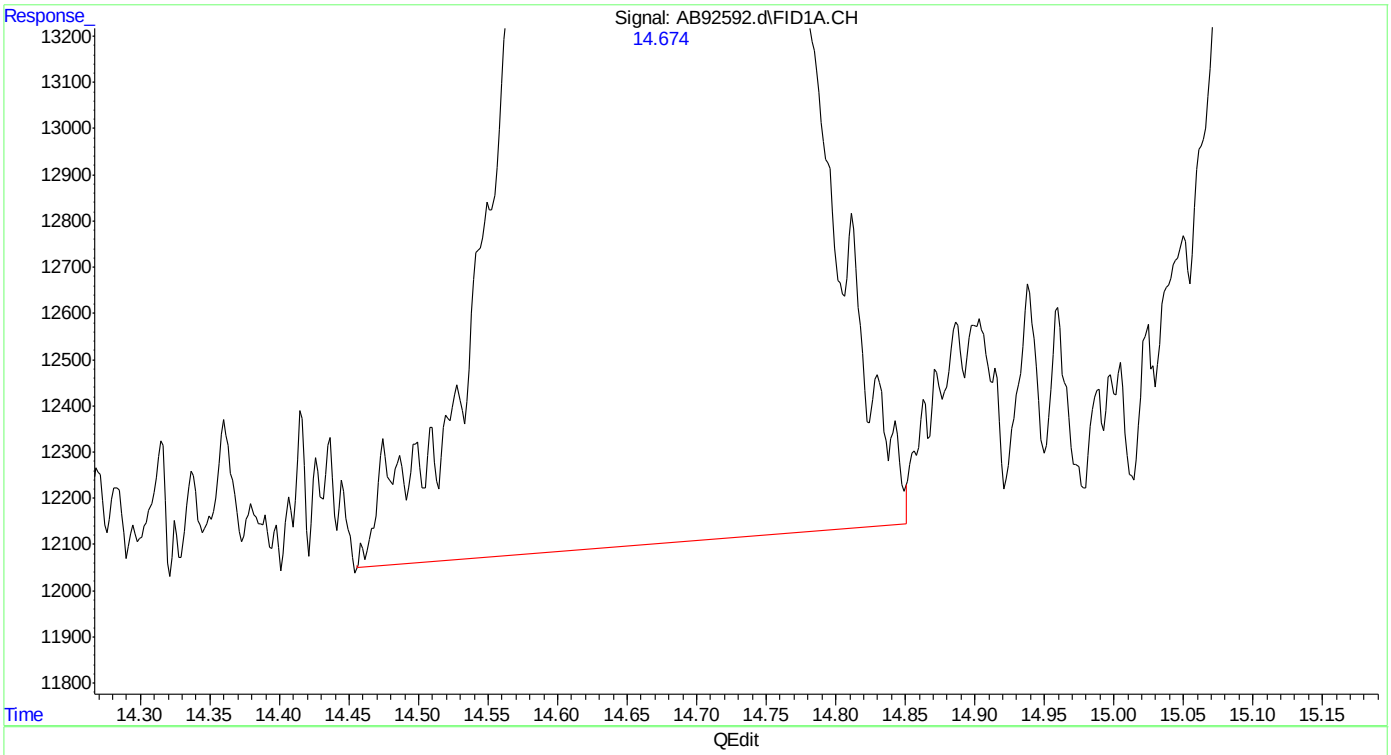
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:56:21 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(5) benzene

14.675min 1.017 ppb

response 564535

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:57:08 2016



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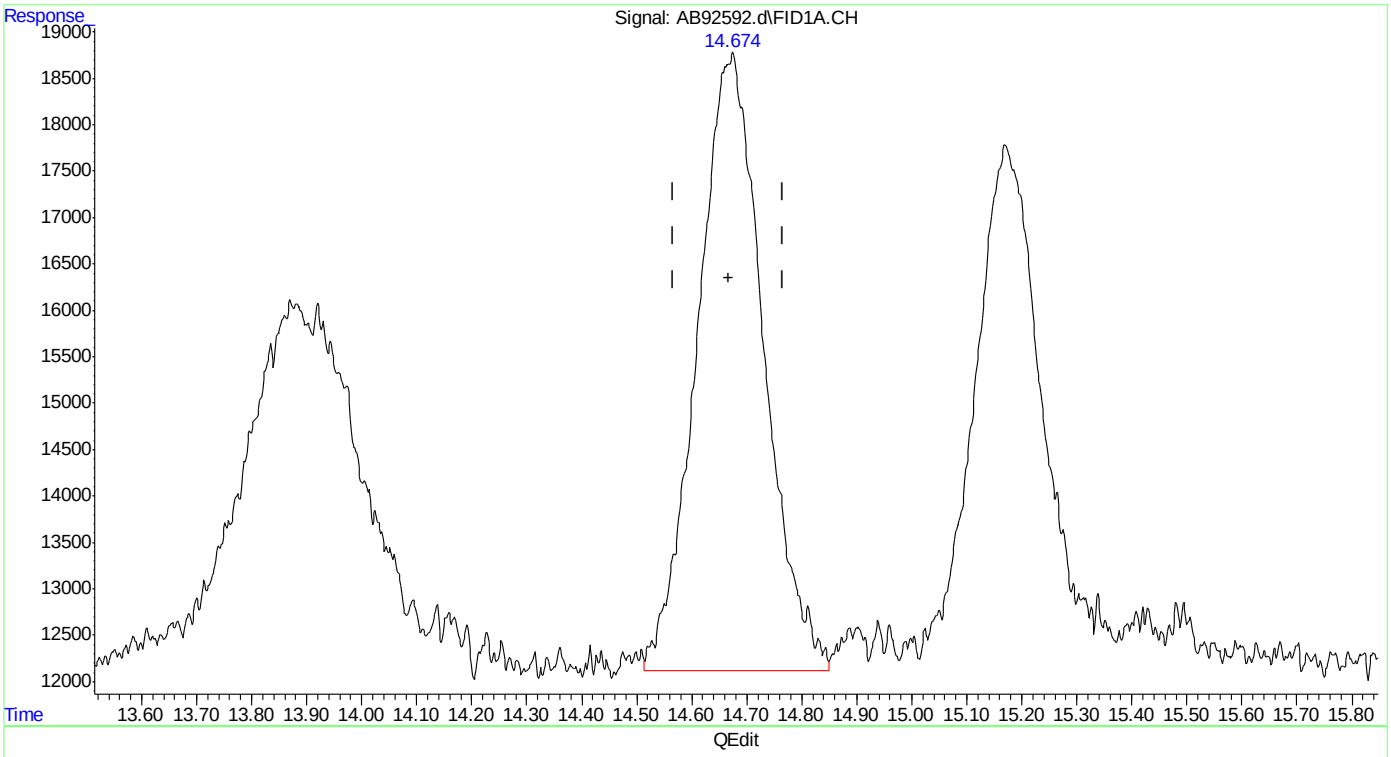
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(5) benzene
14.674min 1.000 ppb m
response 555388

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:42 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(6) fluorobenzene (s)
15.171min 1.075 ppb
response 472881

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:57:46 2016





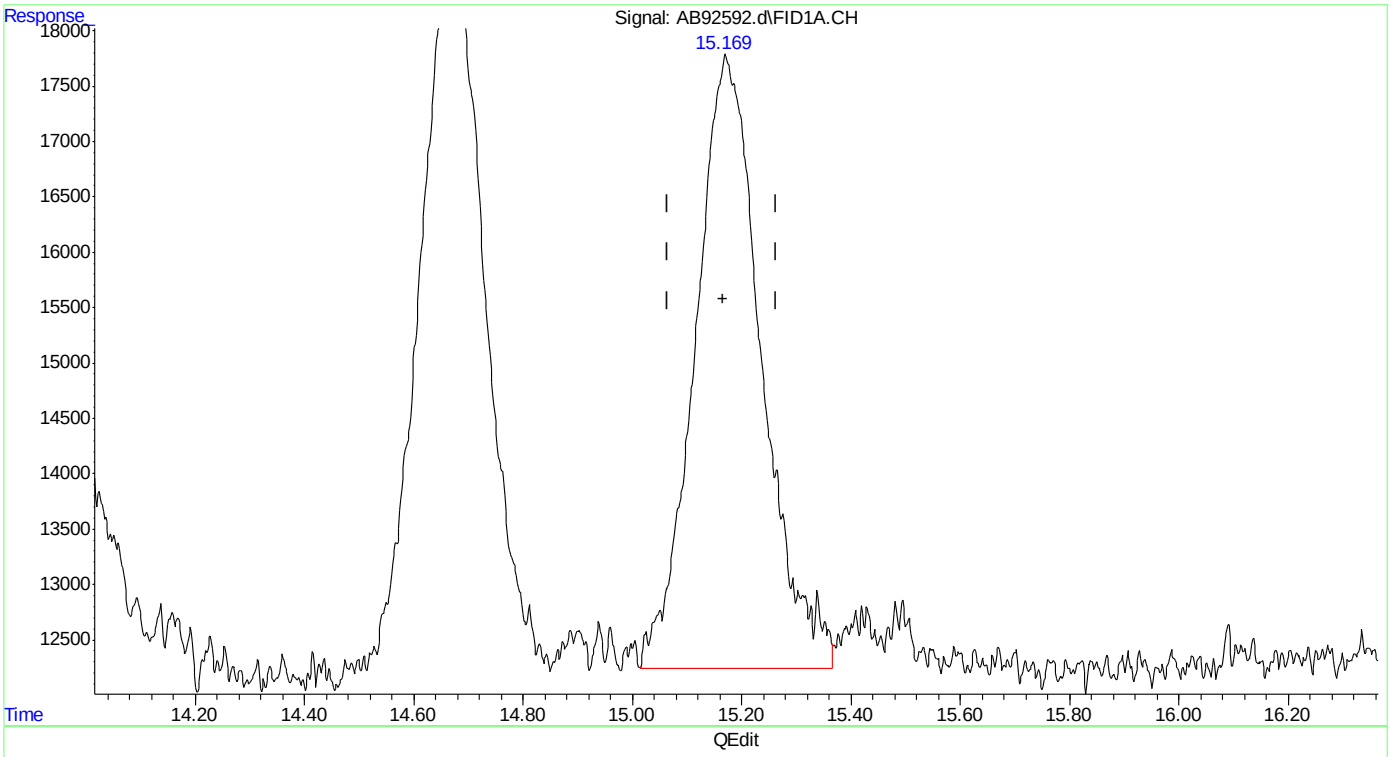
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(6) fluorobenzene (s)
15.169min 1.065 ppb m
response 468381

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





SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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

(8) toluene
19.129min 0.993 ppb
response 607075

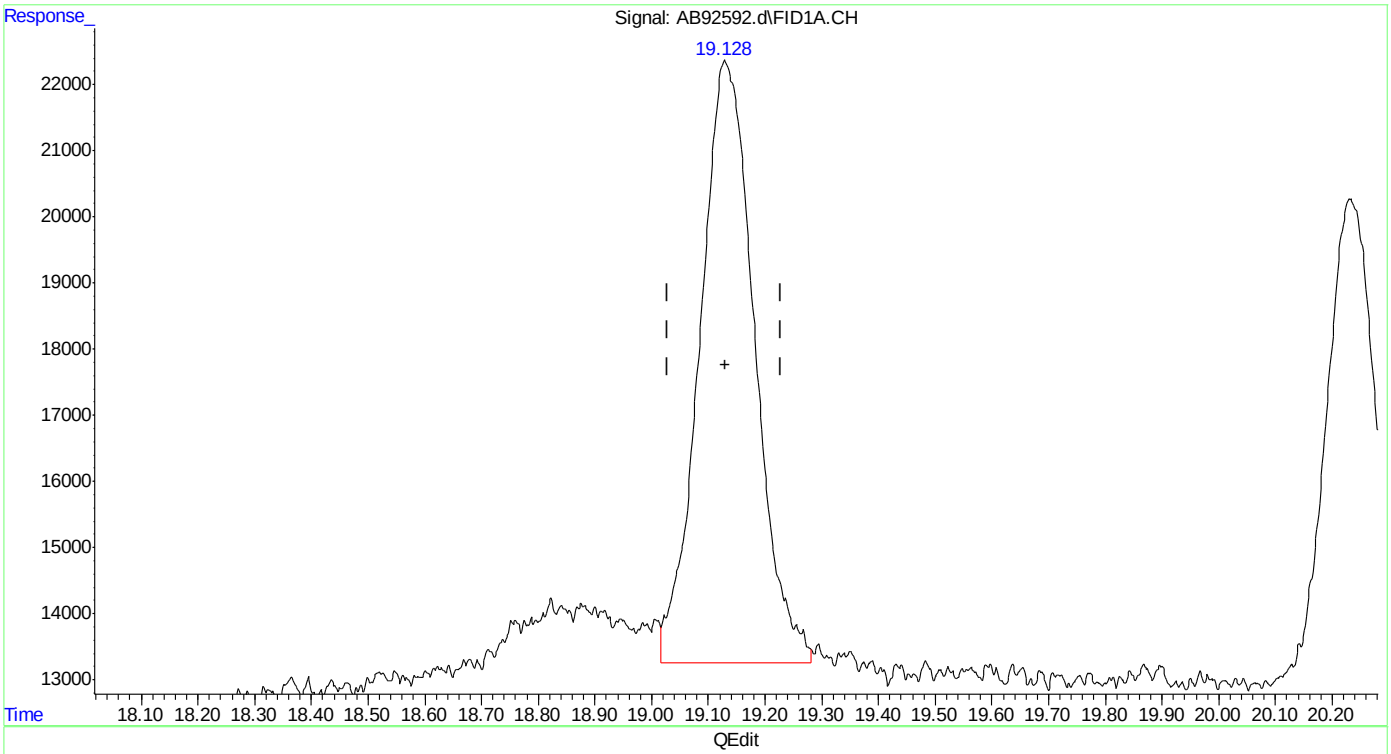
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(8) toluene
19.128min 1.001 ppb m
response 611960

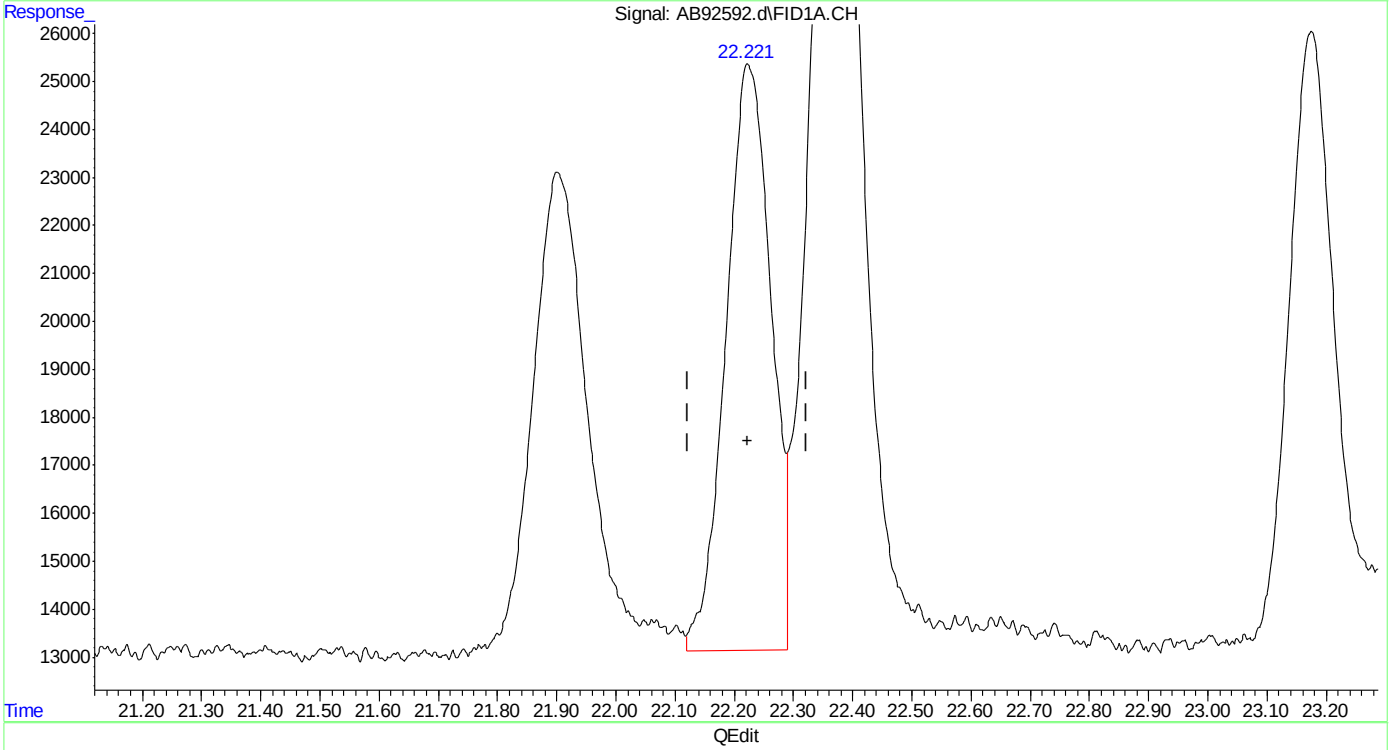
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.223min 0.993 ppb
response 644566

(+) = Expected Retention Time



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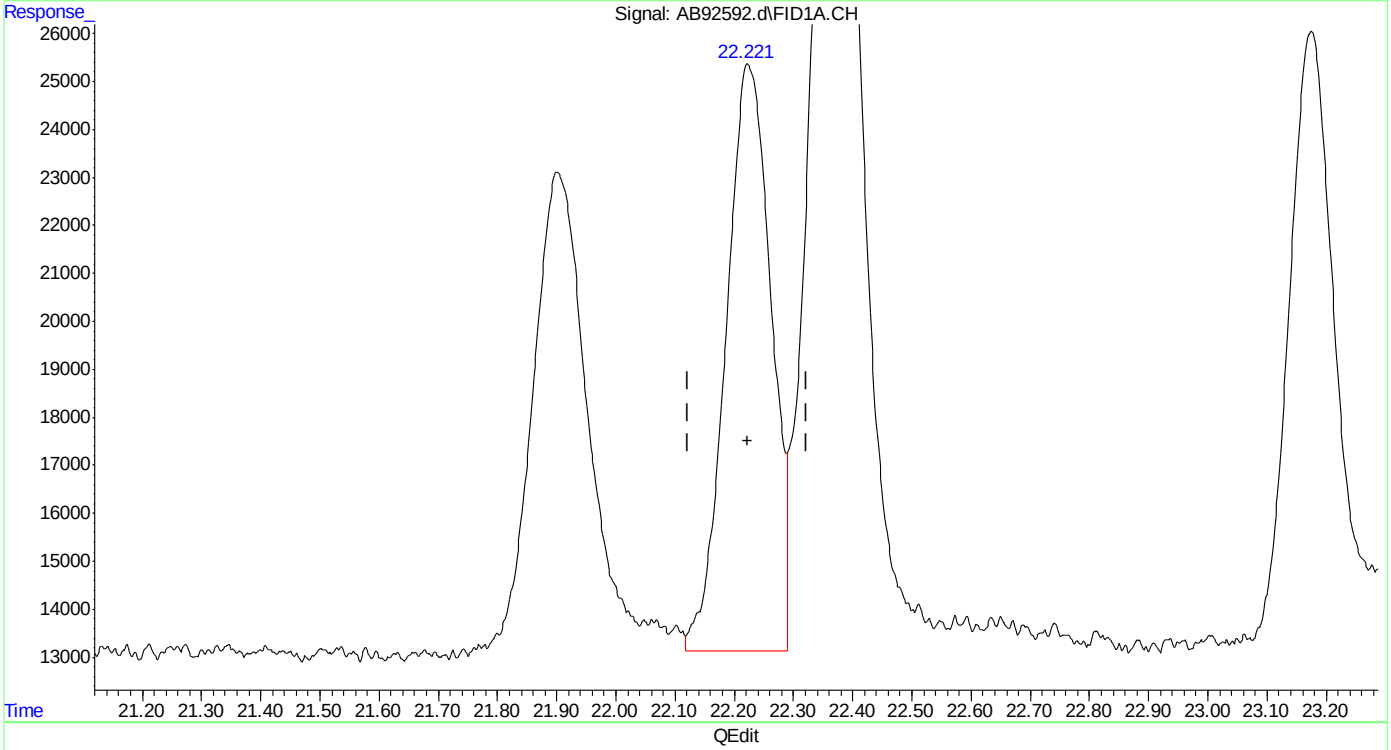
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(13) ethylbenzene
22.221min 1.001 ppb m
response 649345

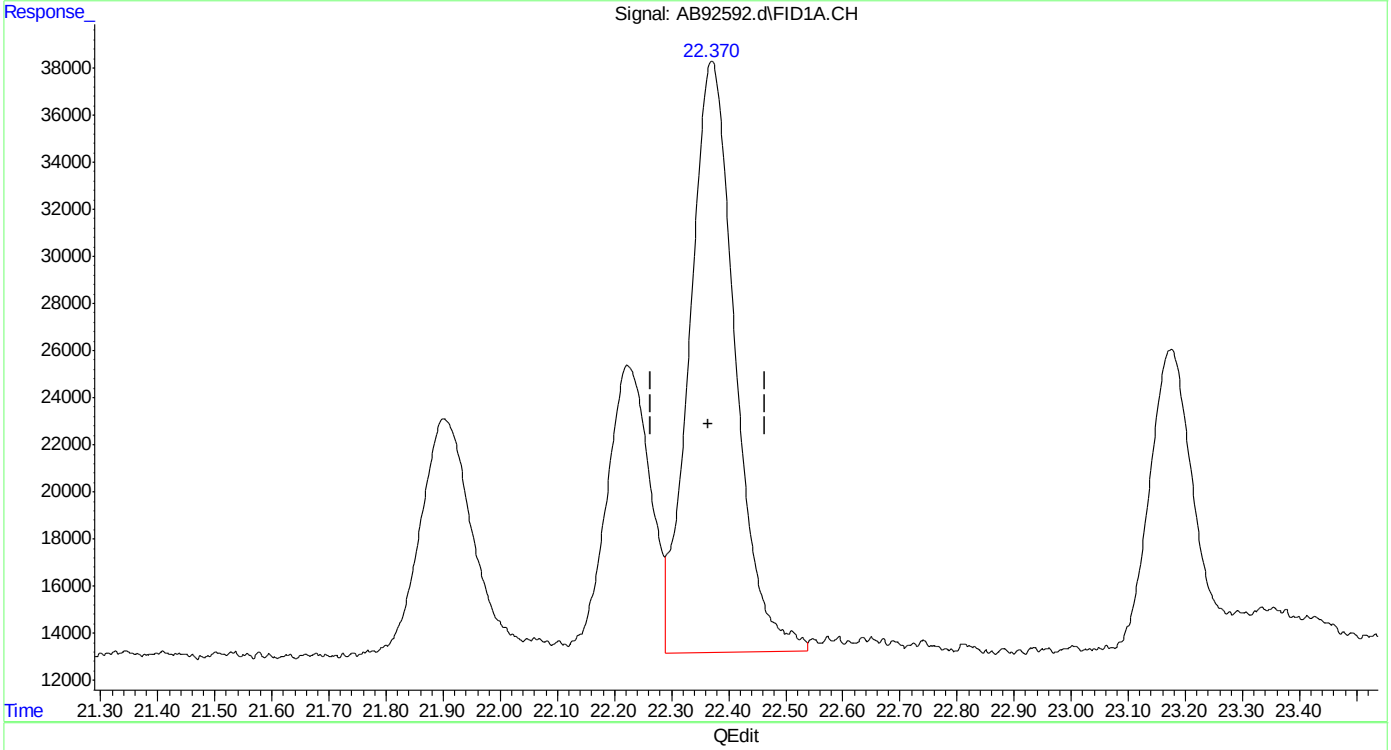
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) m,p-xylene
22.371min 2.059 ppb
response 1393341

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:23 2016







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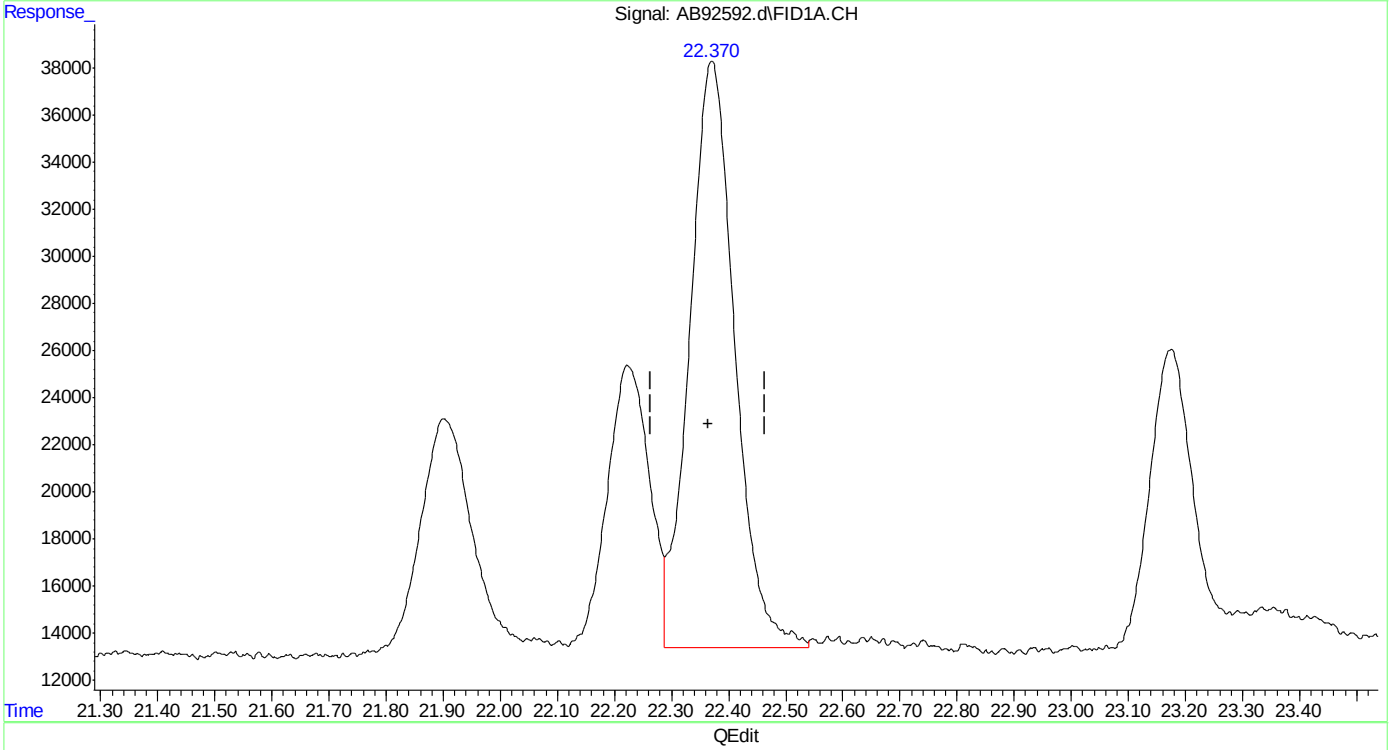
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) m,p-xylene
22.370min 2.024 ppb m
response 1369525

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:35 2016





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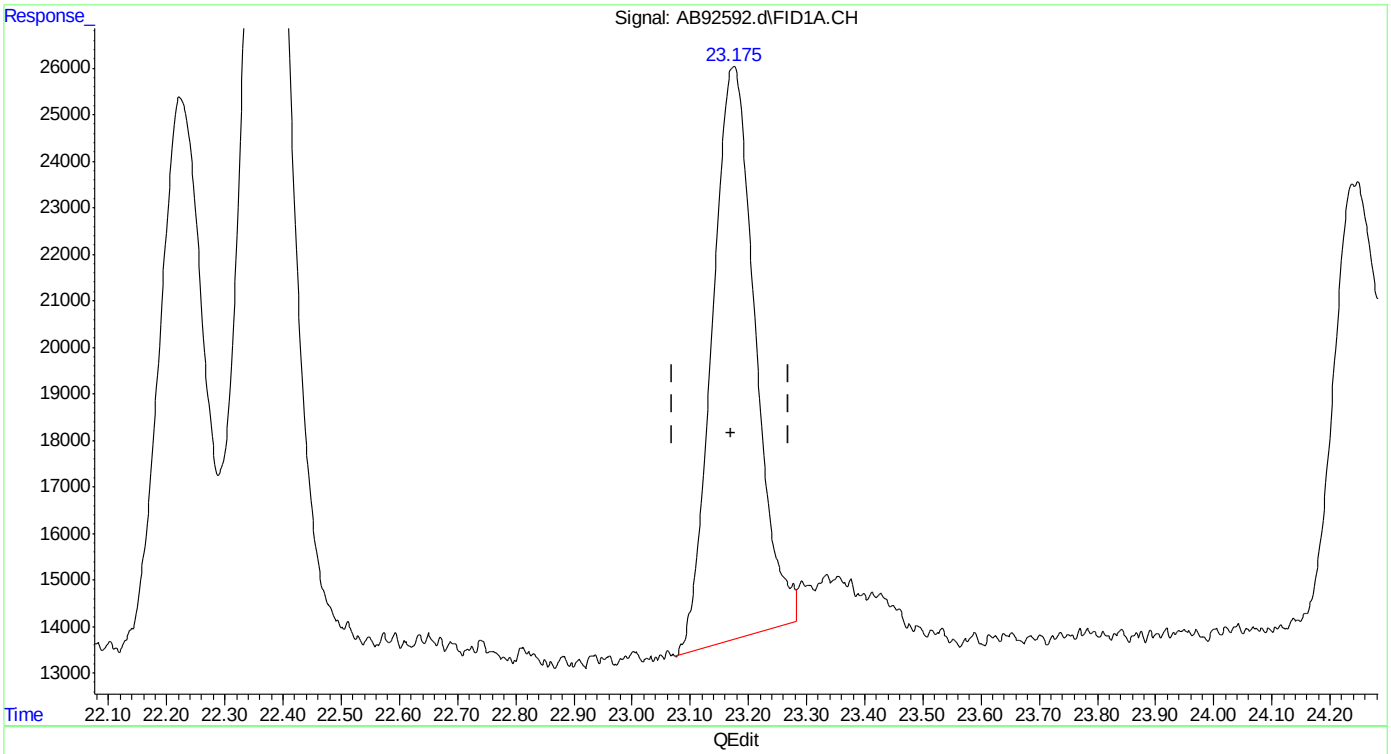
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene

23.175min 0.928 ppb

response 630056

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 13:59:38 2016



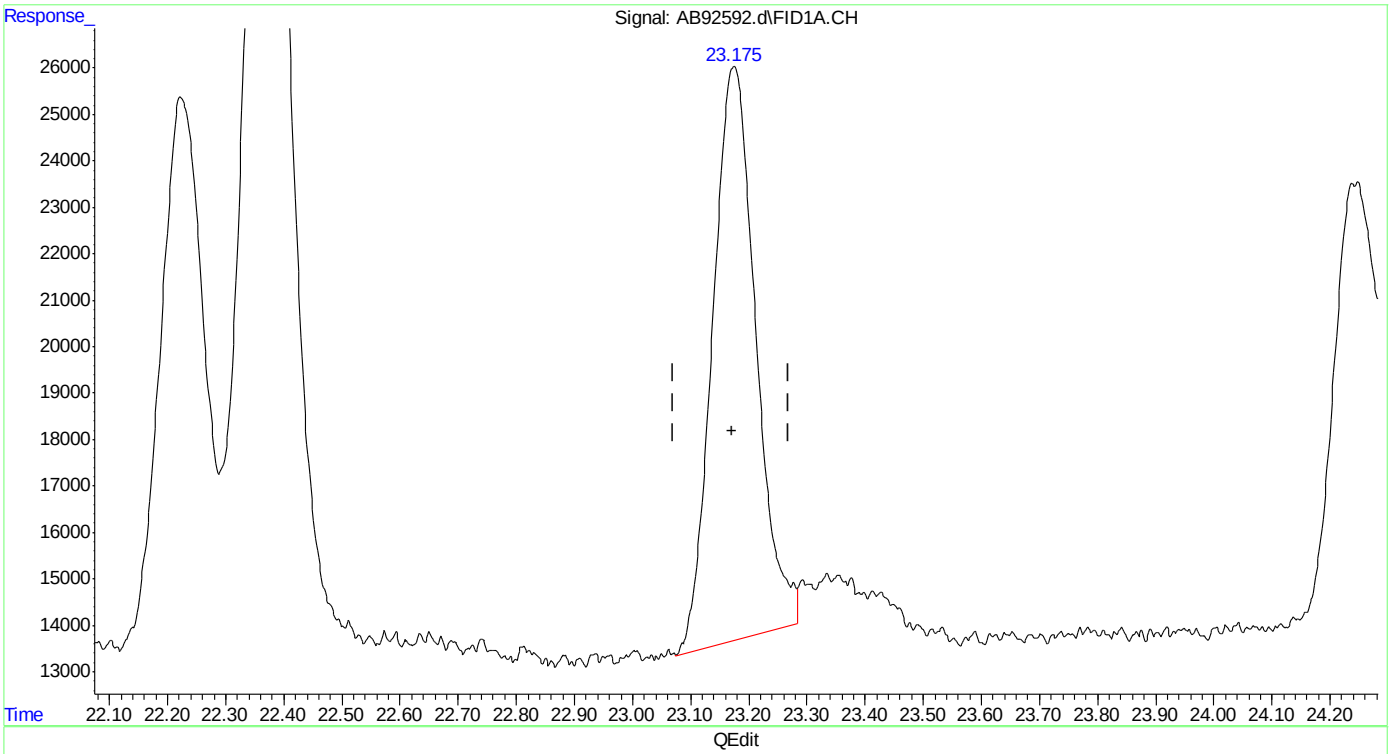
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene
23.175min 0.940 ppb m
response 638537

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 13:59:46 2016





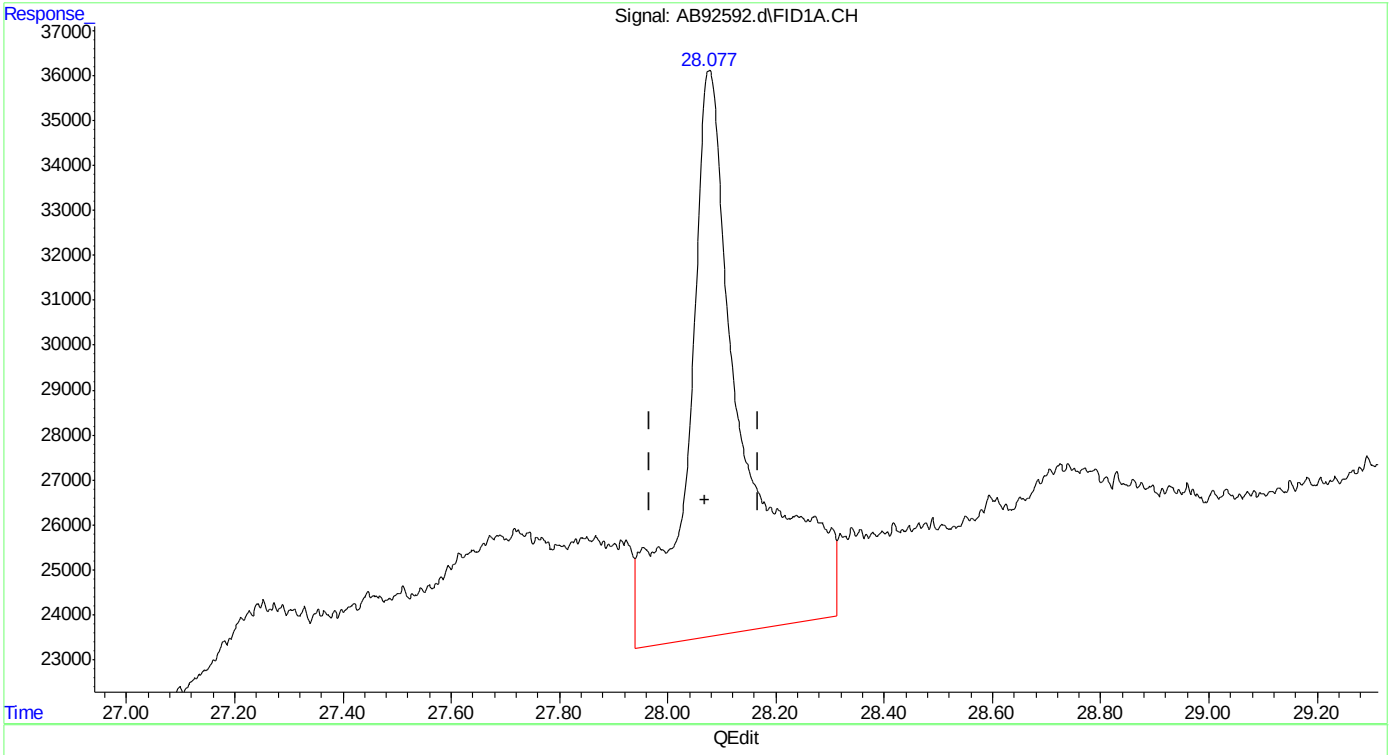
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.077min 2.363 ppb
response 908870

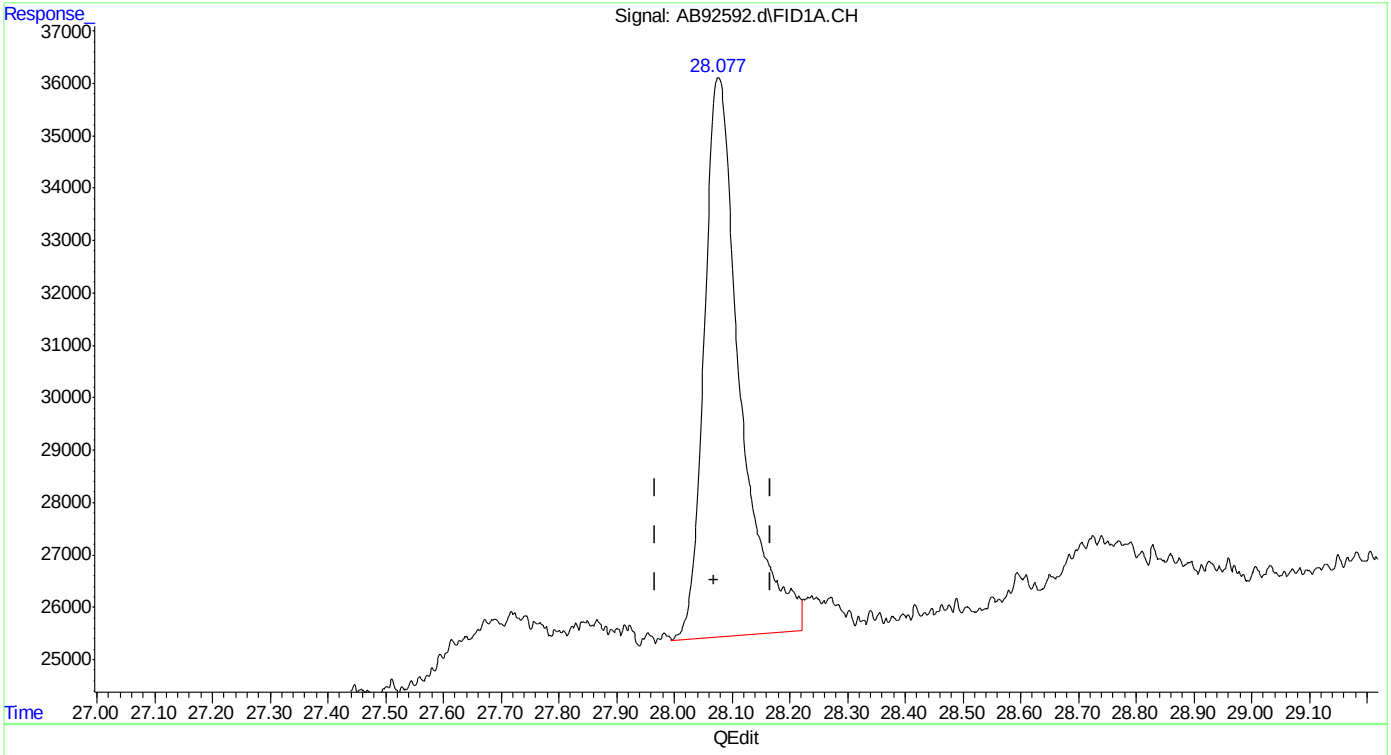
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.077min 1.207 ppb m
response 464401

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





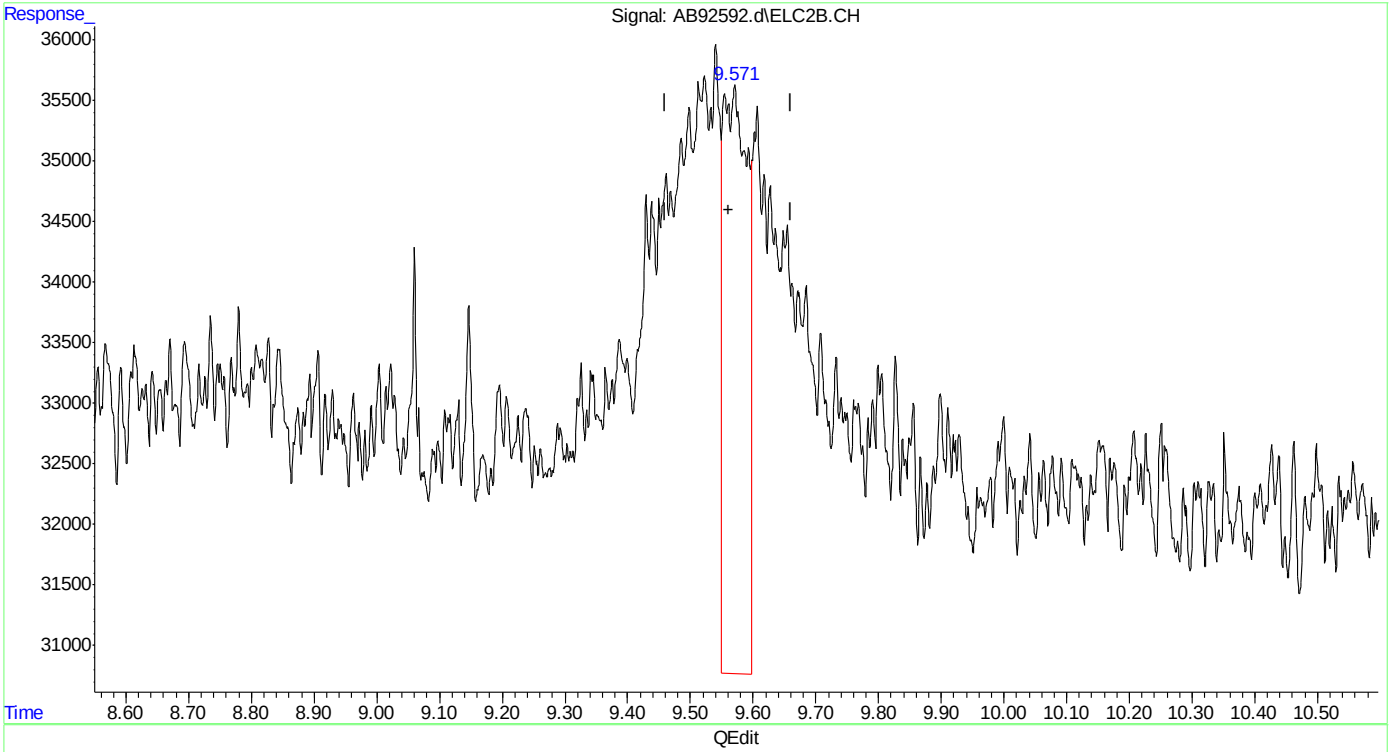
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.571min 0.251 ppb
response 129679

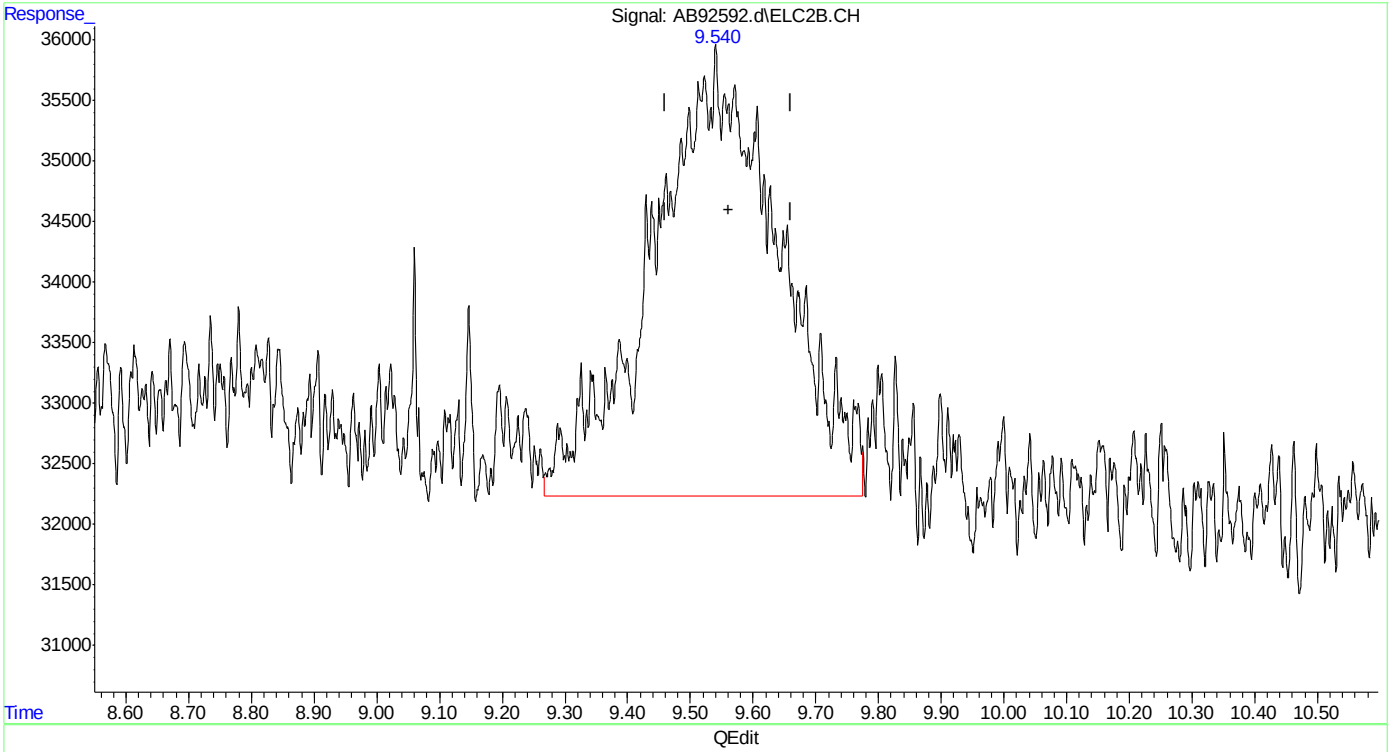
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) mtbe #2
9.540min 1.000 ppb m
response 515933

(+) = Expected Retention Time



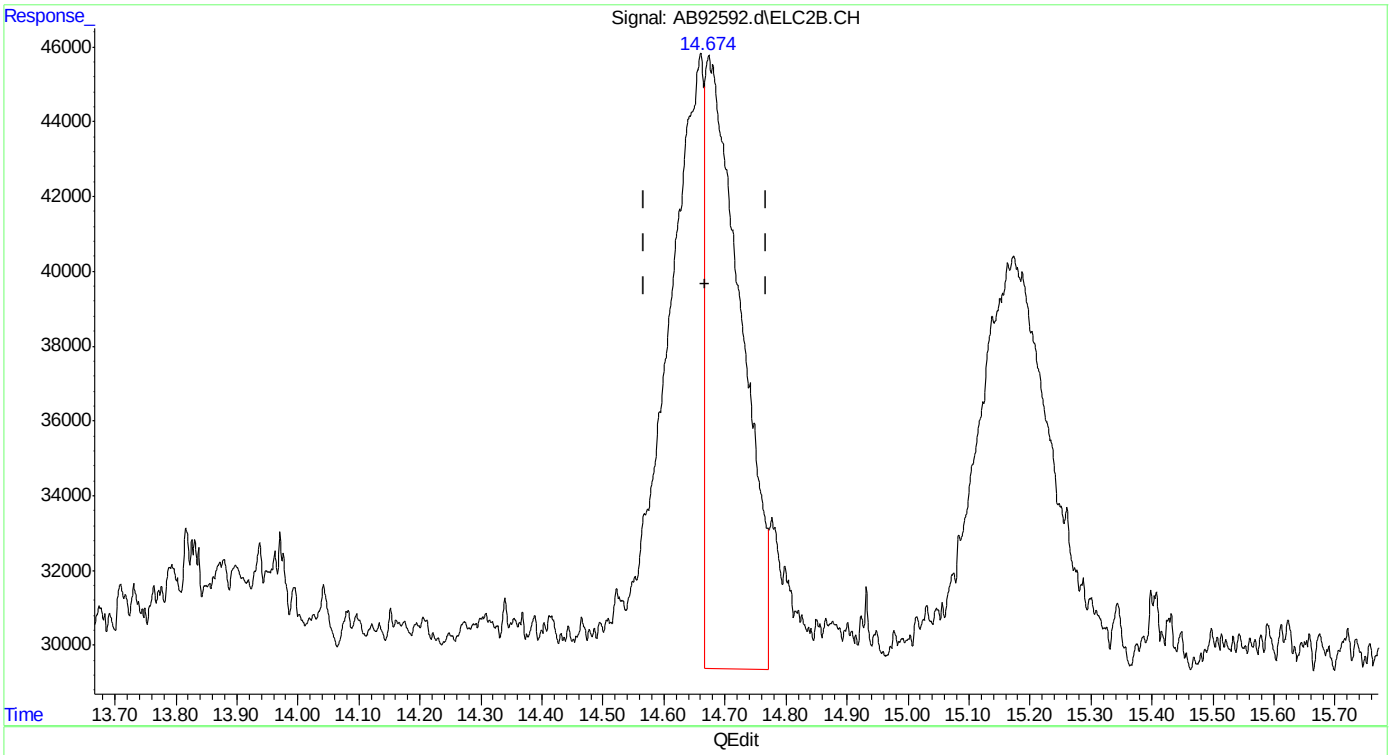
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2
14.673min 0.482 ppb
response 665851

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:01:00 2016





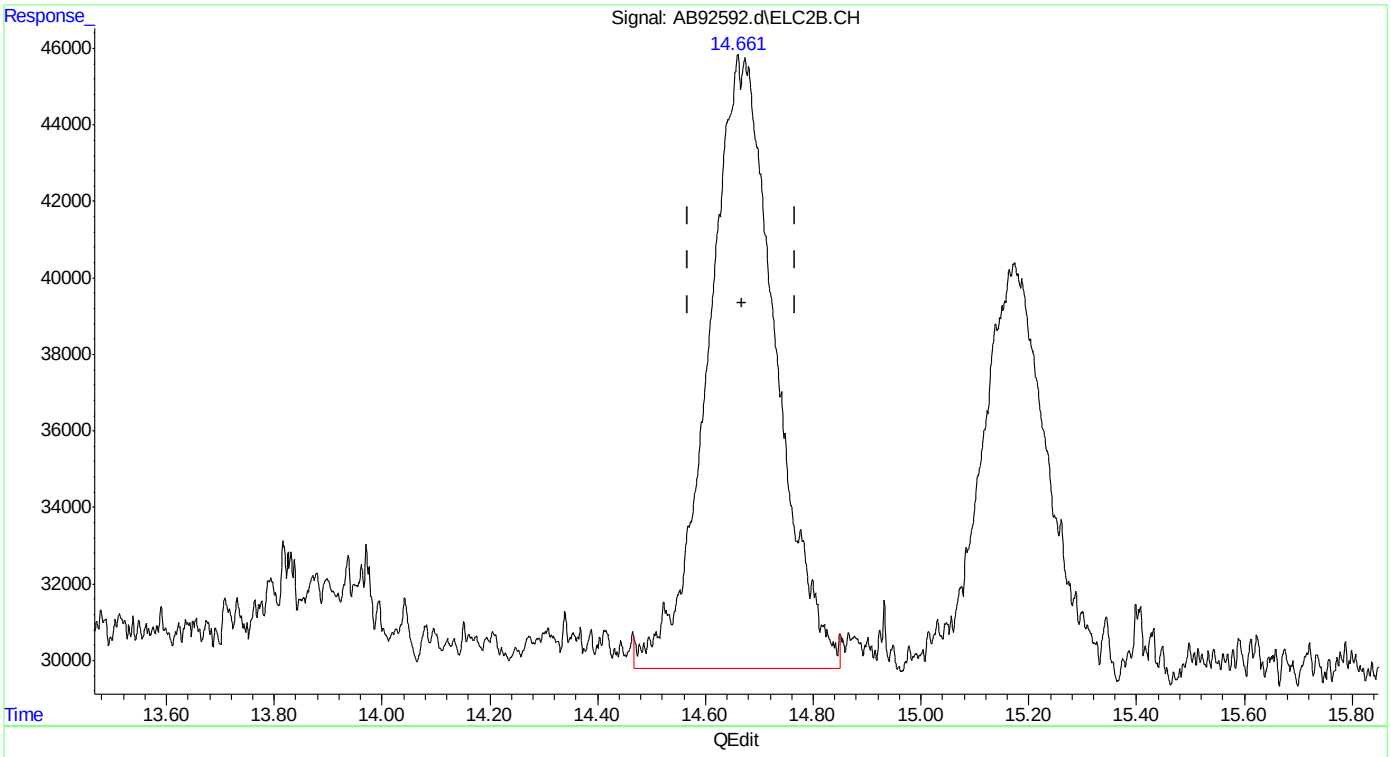
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) benzene #2

14.661min 1.003 ppb m

response 1385814

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:01:20 2016



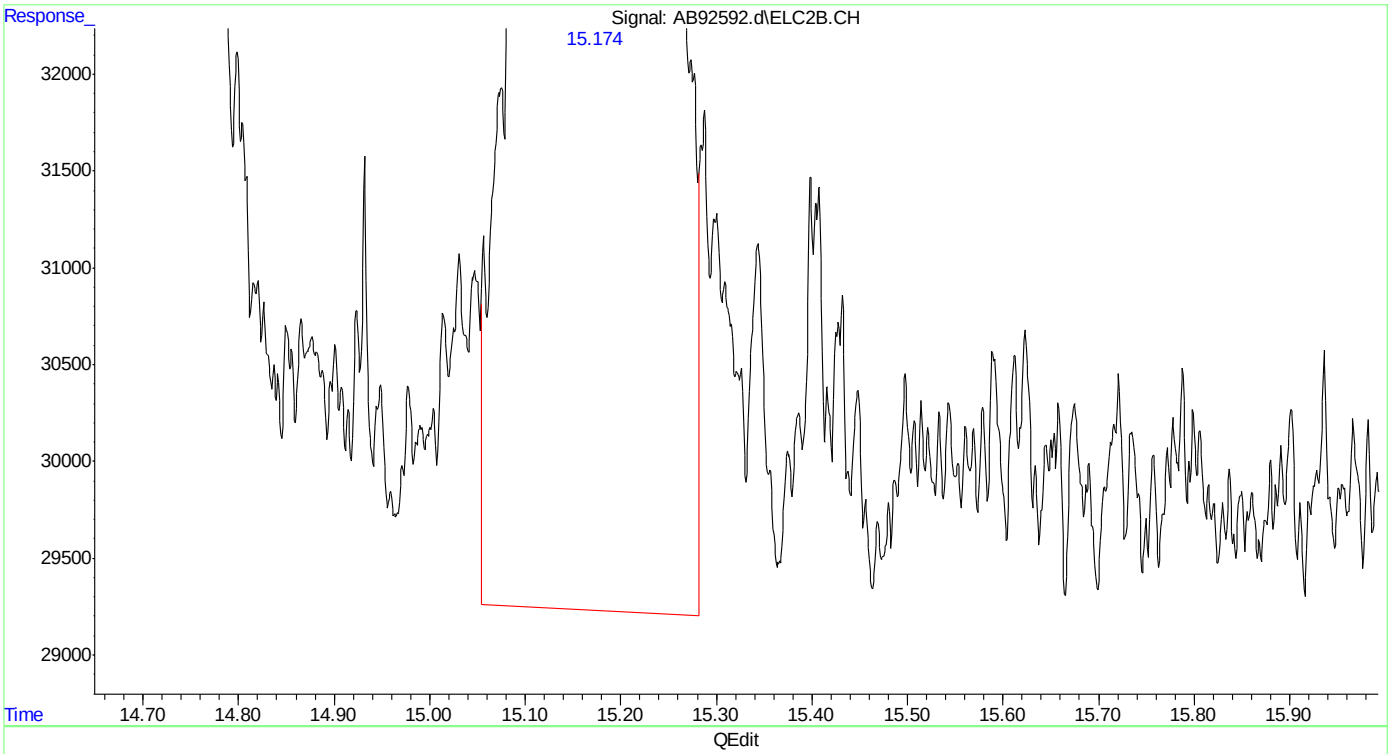
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)

15.173min 1.034 ppb

response 900823

(+) = Expected Retention Time

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





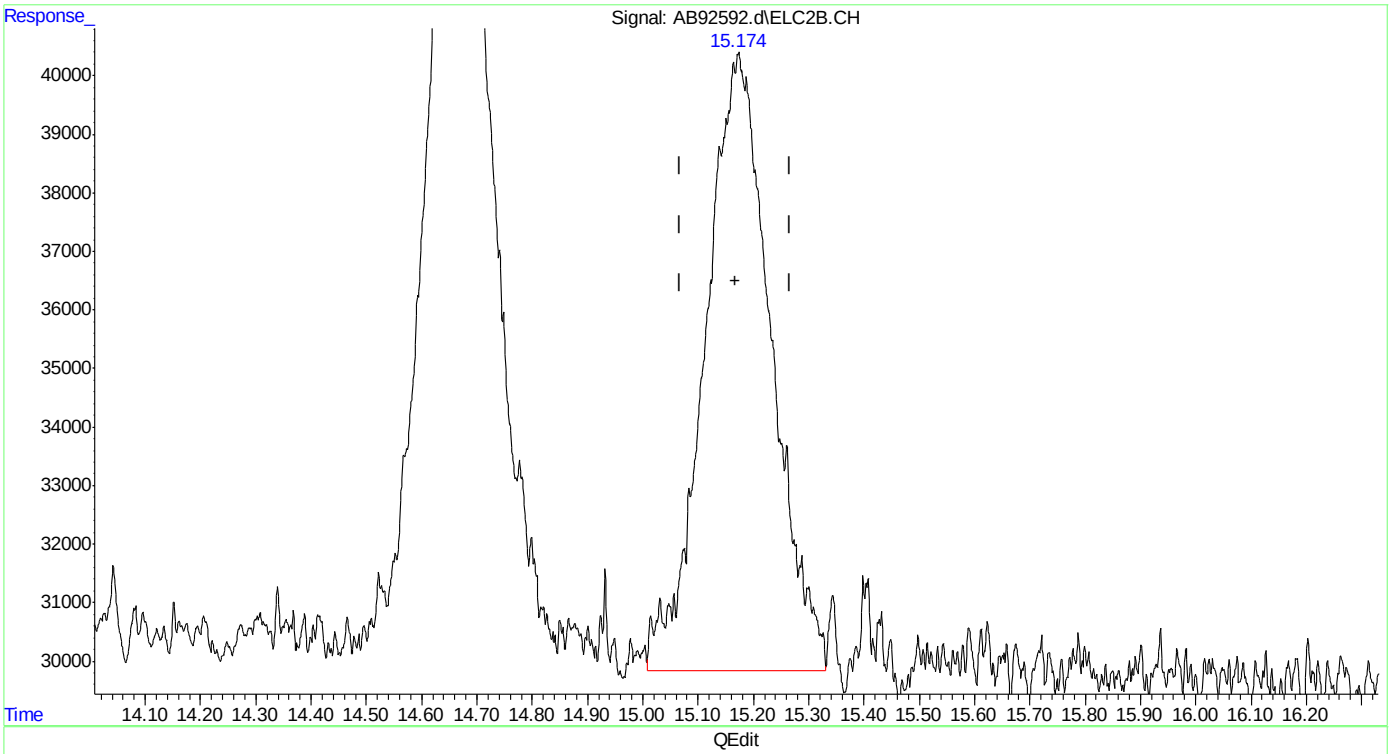
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(25) fluorobenzene #2 (s)
15.174min 1.001 ppb m
response 871999

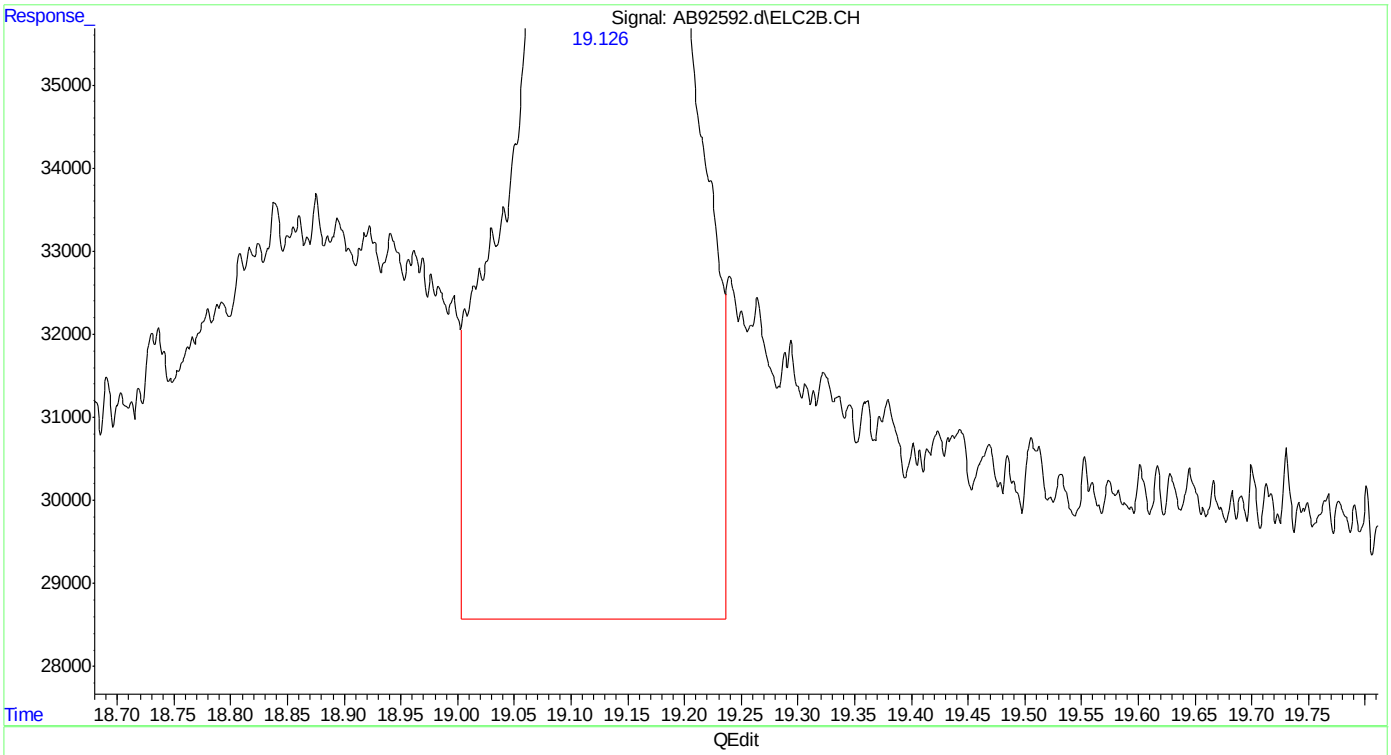
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.128min 1.223 ppb
response 1504312

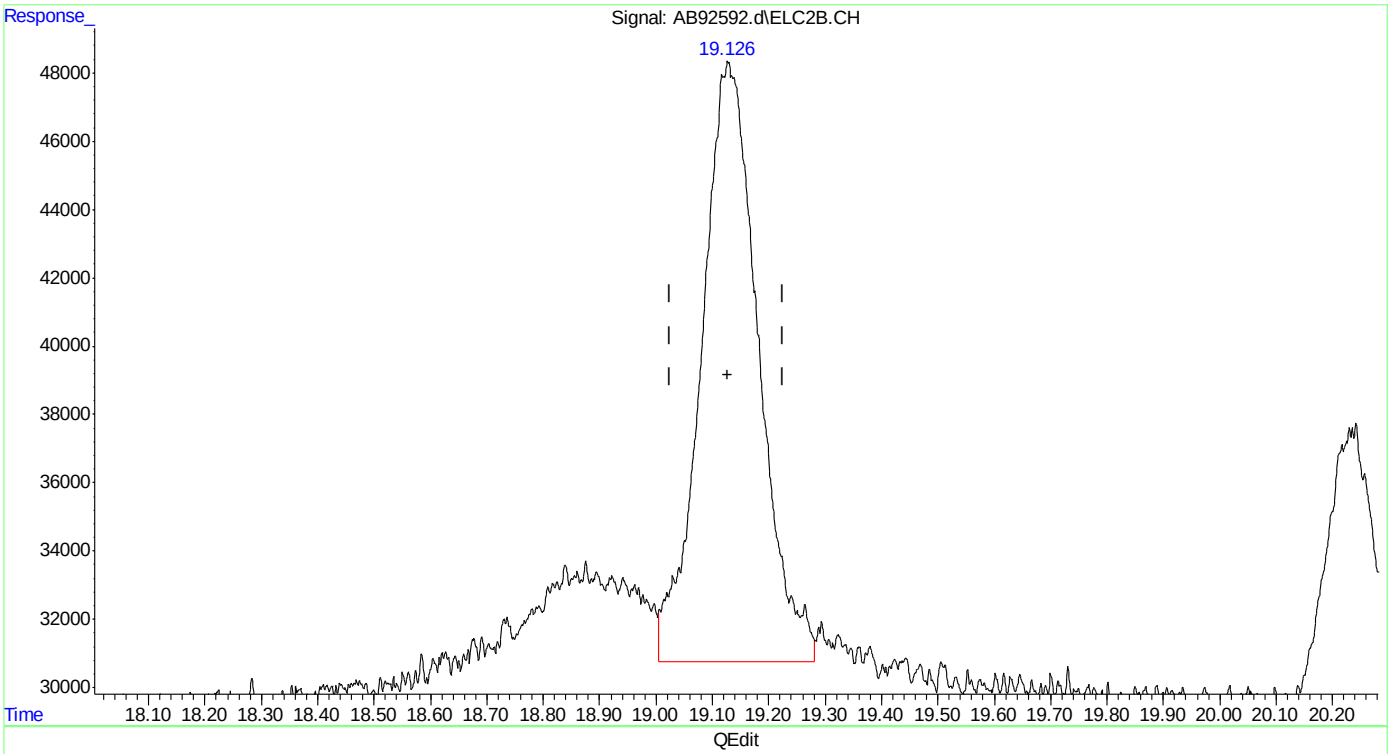
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:02:51 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(26) toluene #2
19.126min 1.003 ppb m
response 1234262

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:03:11 2016  Page: 1


SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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

(27) 2,3,4-trifluorotoluene #2 (s)

20.242min 1.201 ppb

response 576599

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:03:15 2016



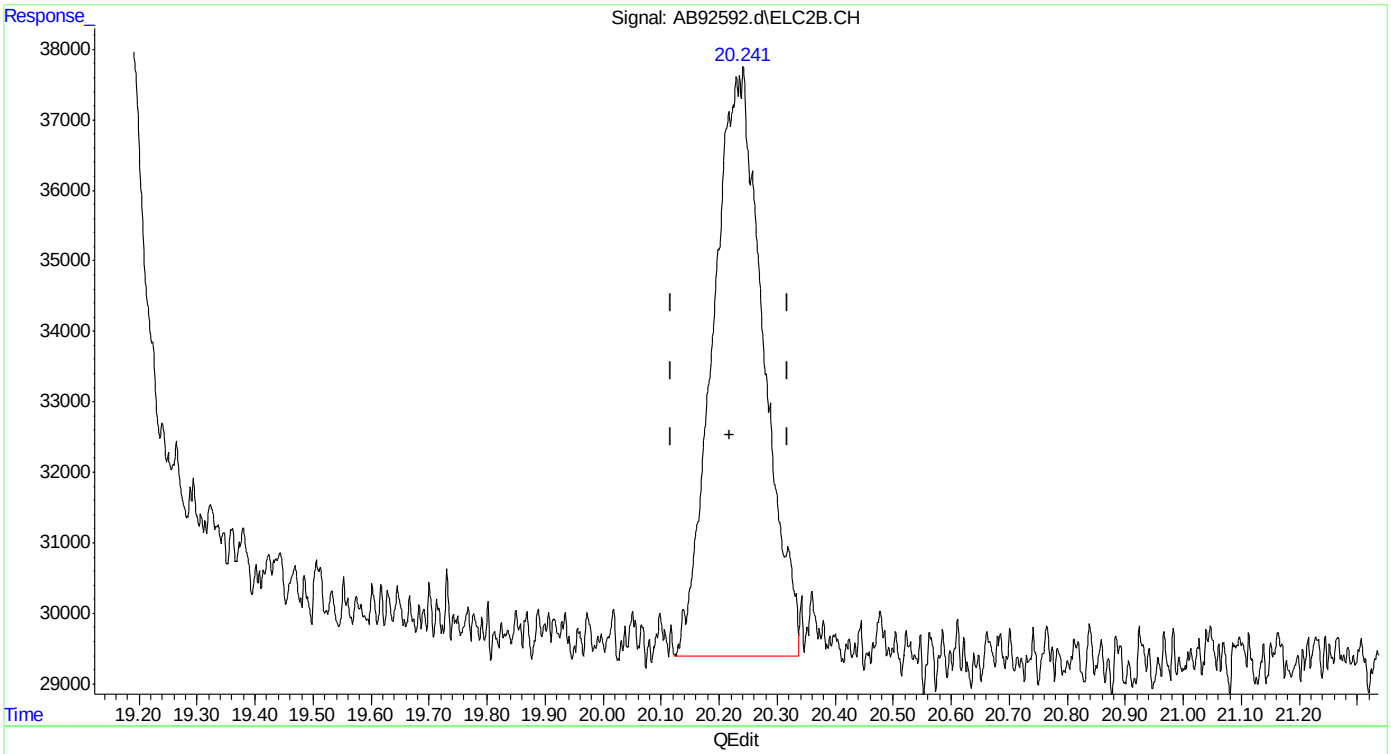
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(27) 2,3,4-trifluorotoluene #2 (s)
20.241min 1.042 ppb m
response 500356

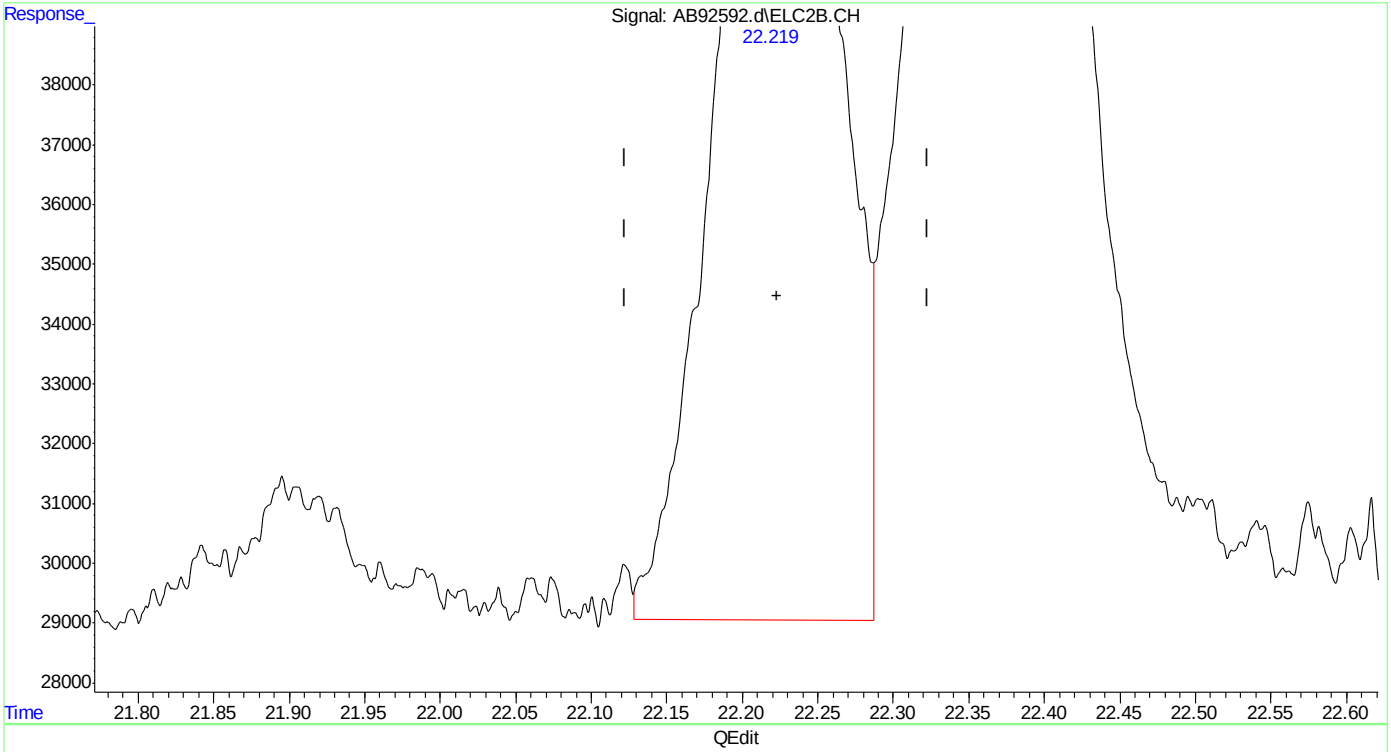
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2
22.220min 0.946 ppb
response 931328

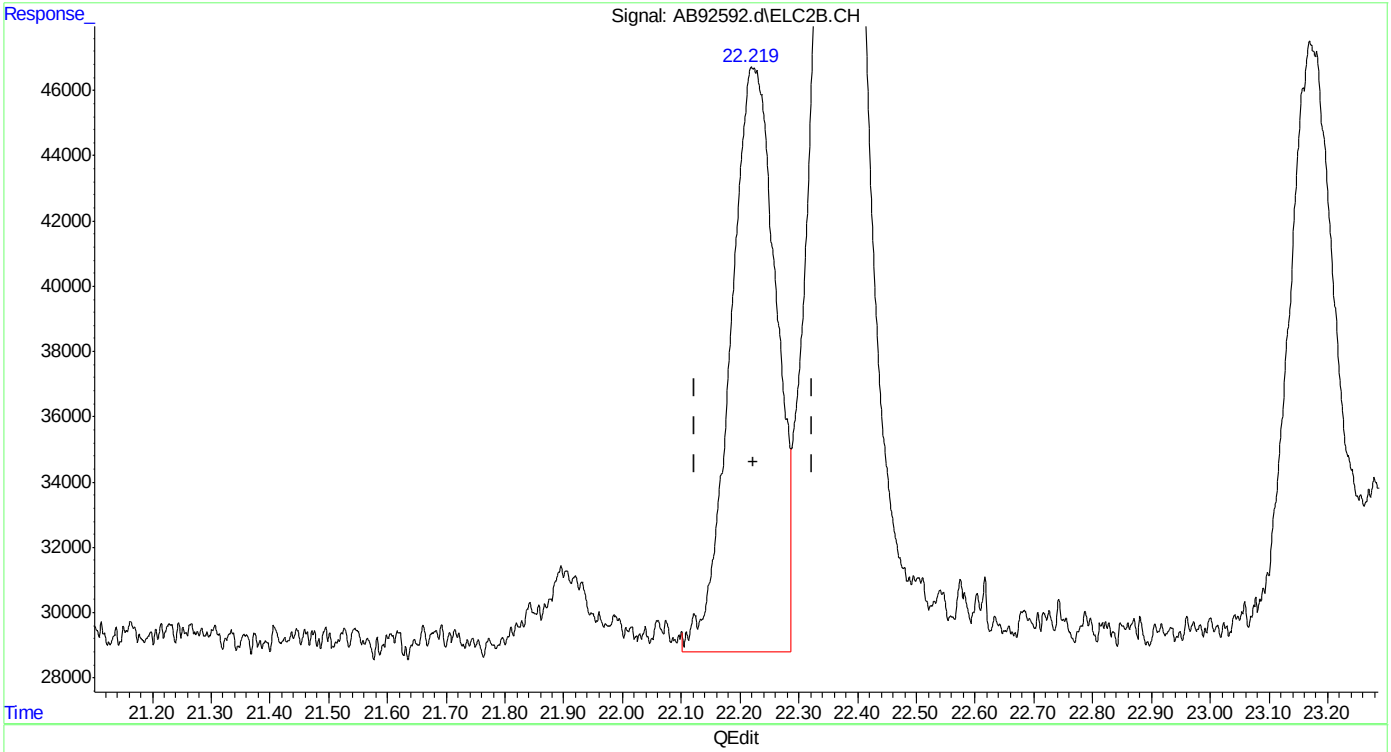
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(28) ethylbenzene #2

22.219min 0.979 ppb m

response 964169

(+) = Expected Retention Time

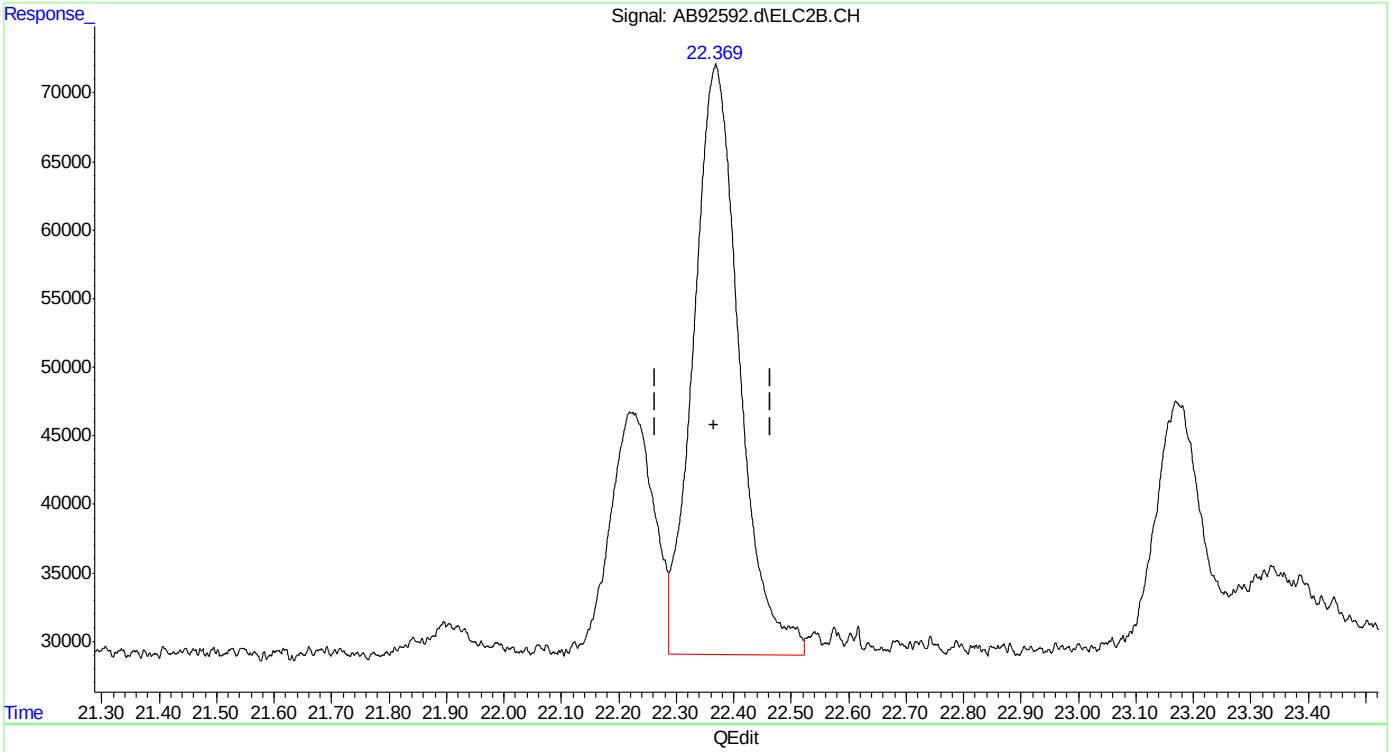
ab160112vphmaster.M Tue Jan 12 14:03:57 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(29) m,p-xylene #2
22.369min 1.955 ppb
response 2374183

(+) = Expected Retention Time



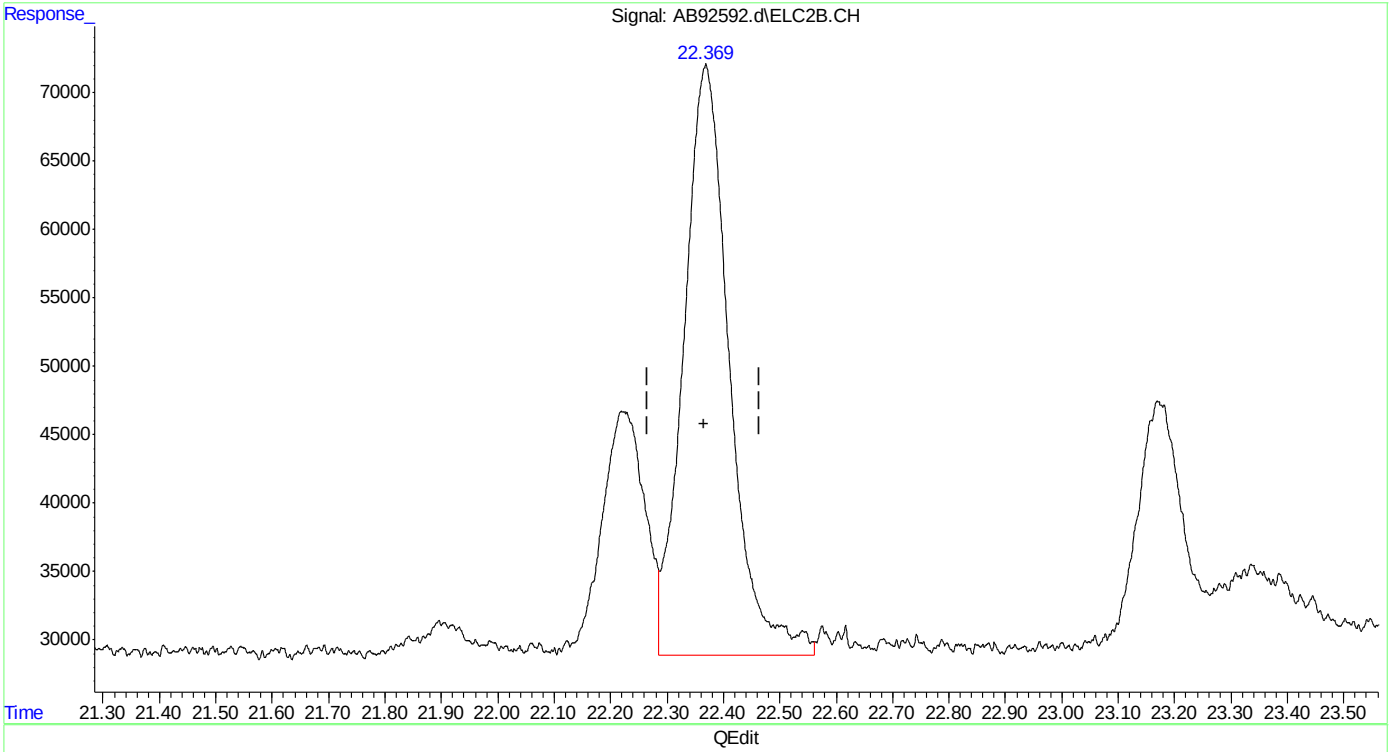
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(29) m,p-xylene #2
22.369min 2.003 ppb m
response 2432291

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:26 2016





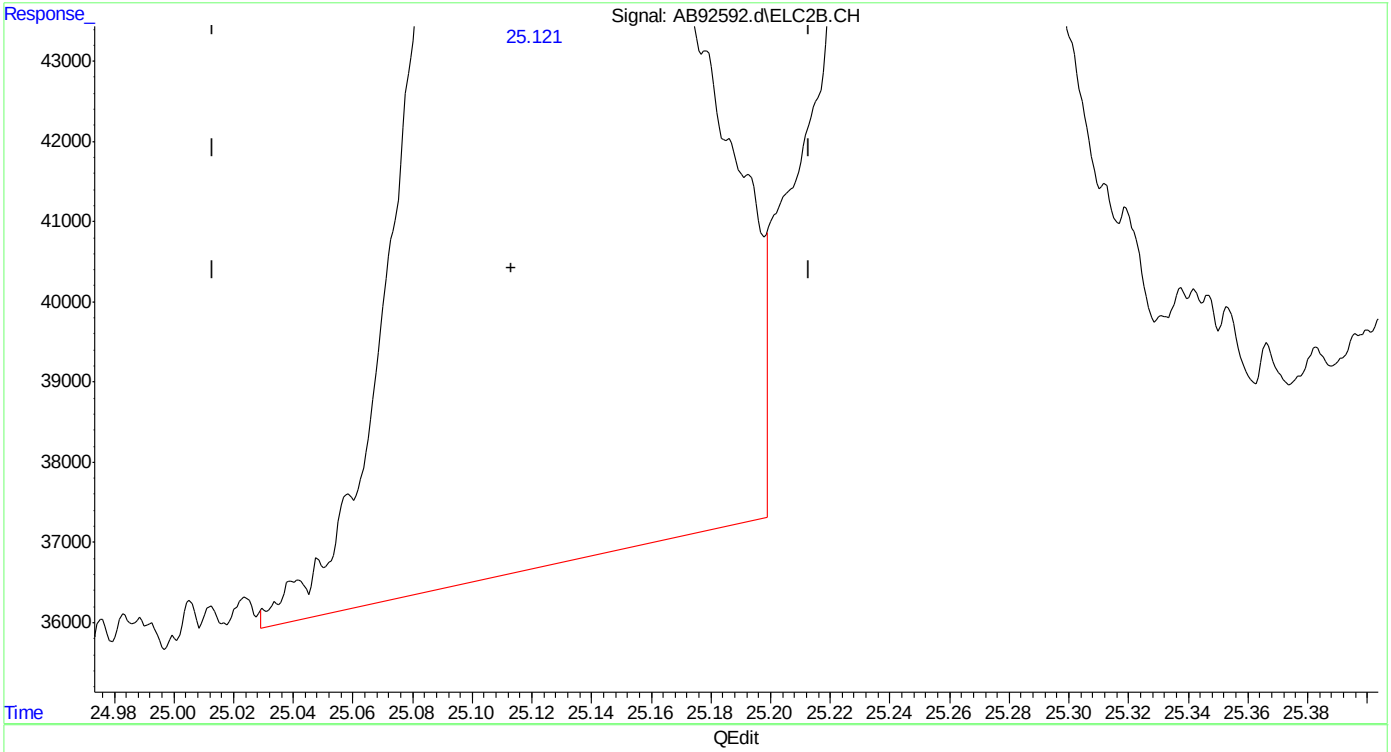
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.121min 0.979 ppb
response 1030211

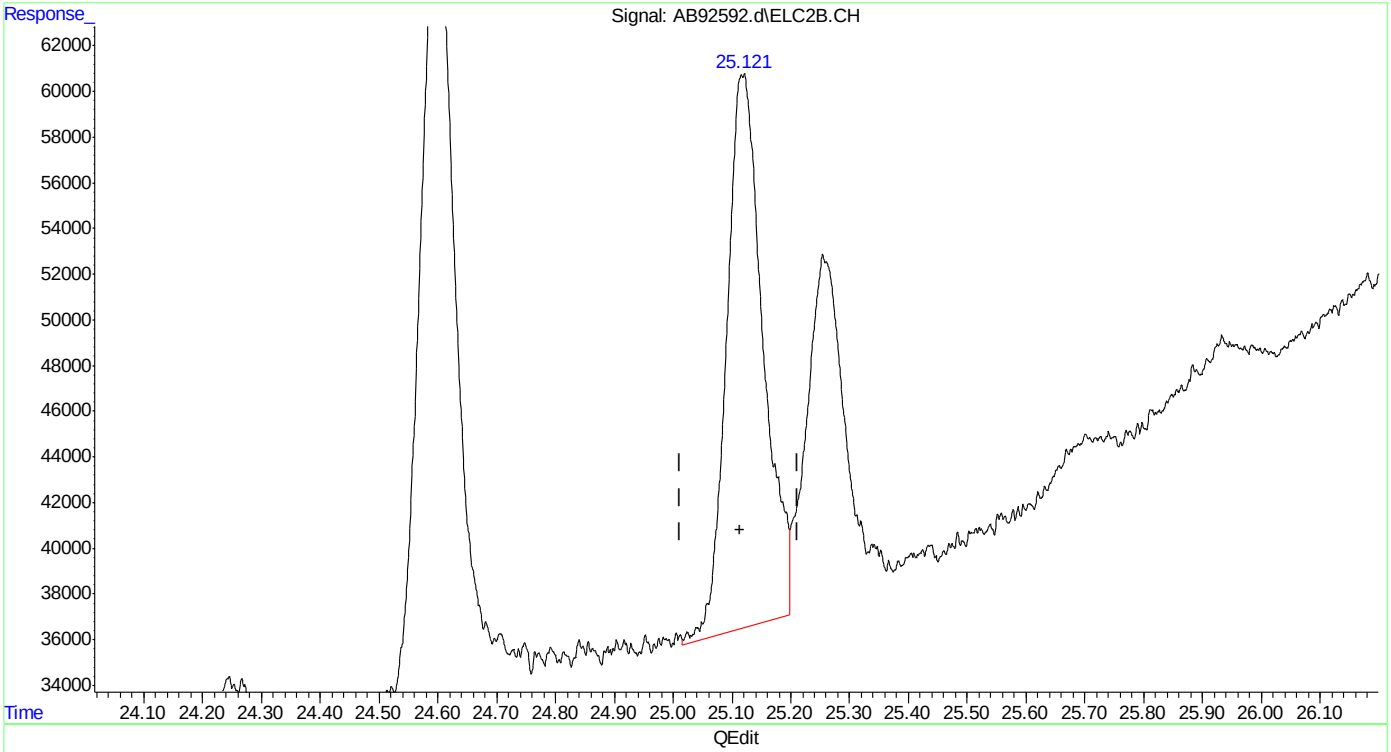
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(32) 1,2,4-trimethylbenzene #2
25.121min 0.998 ppb m
response 1050396

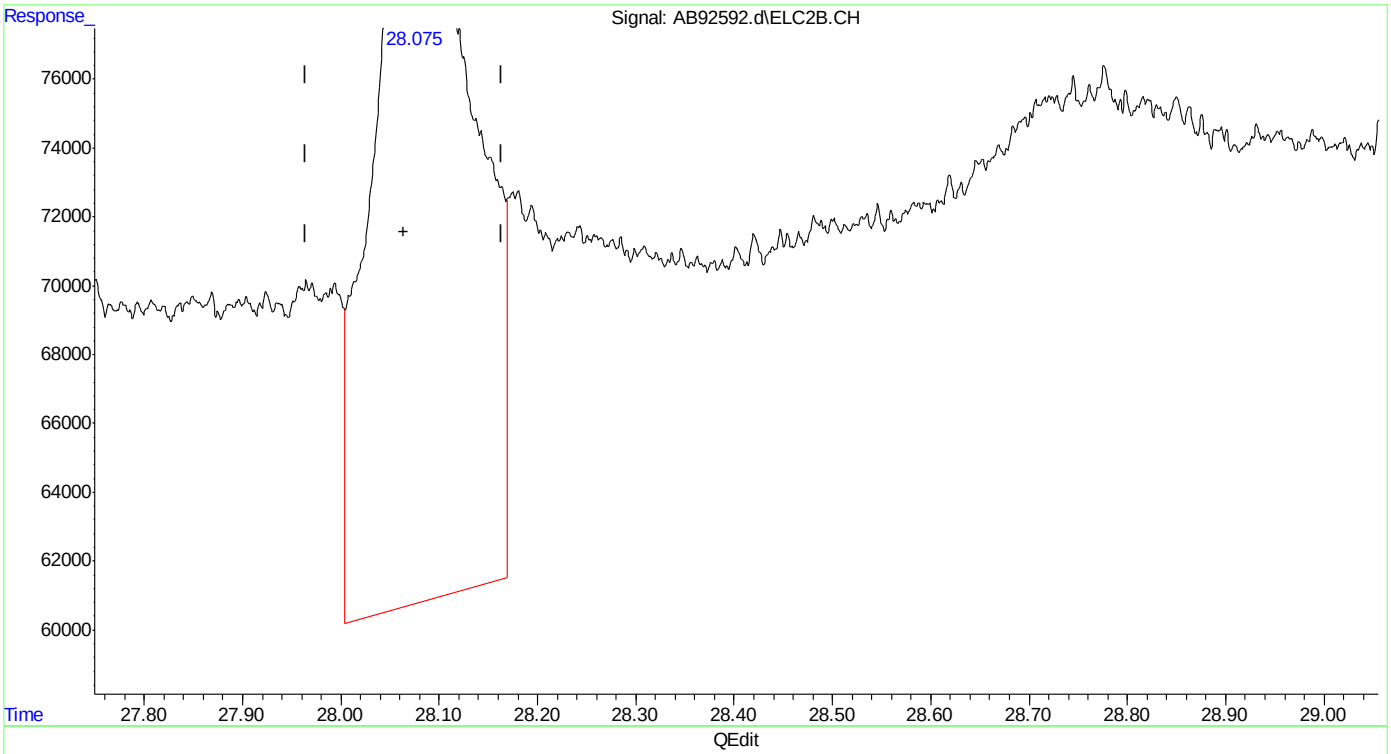
(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:45 2016  Page: 1

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.075min 2.188 ppb
response 1817004

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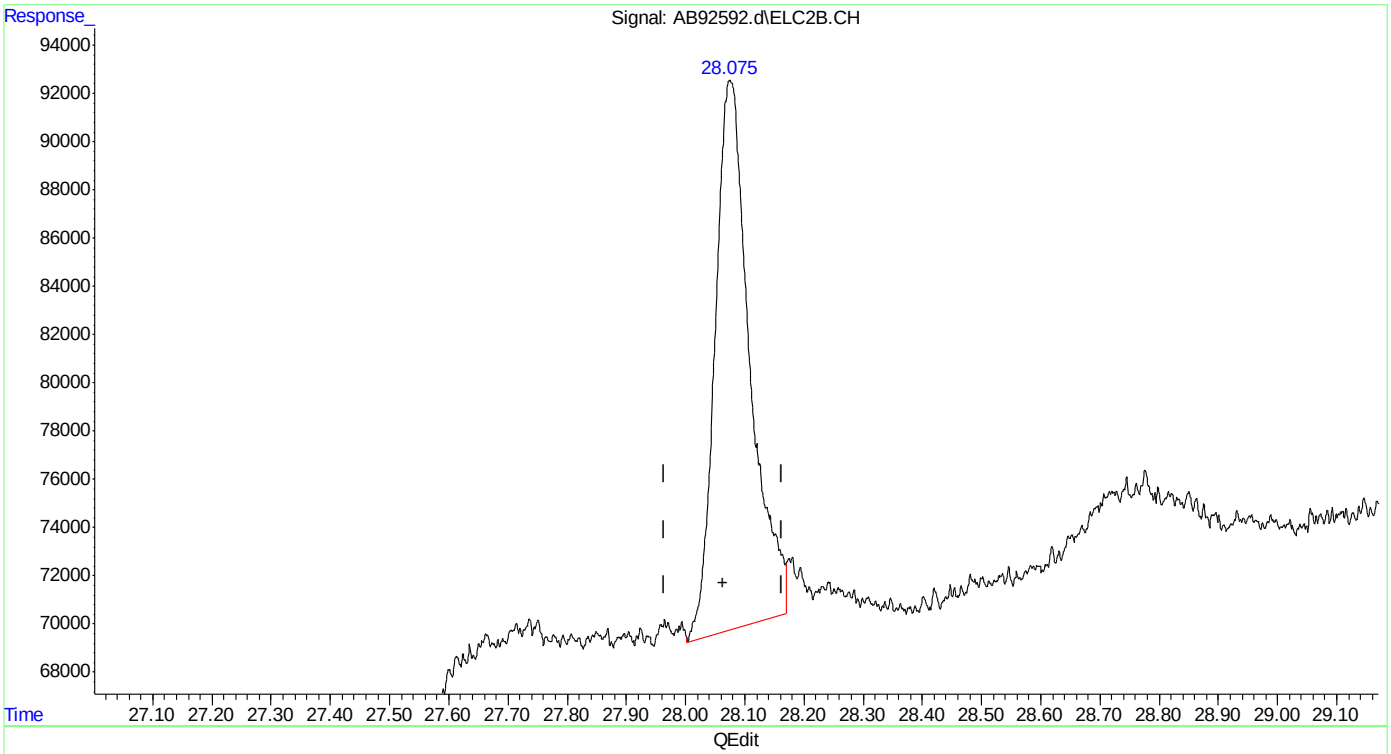
Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(33) naphthalene #2
28.075min 1.122 ppb m
response 932025

(+) = Expected Retention Time
ab160112vphmaster.M Tue Jan 12 14:04:59 2016





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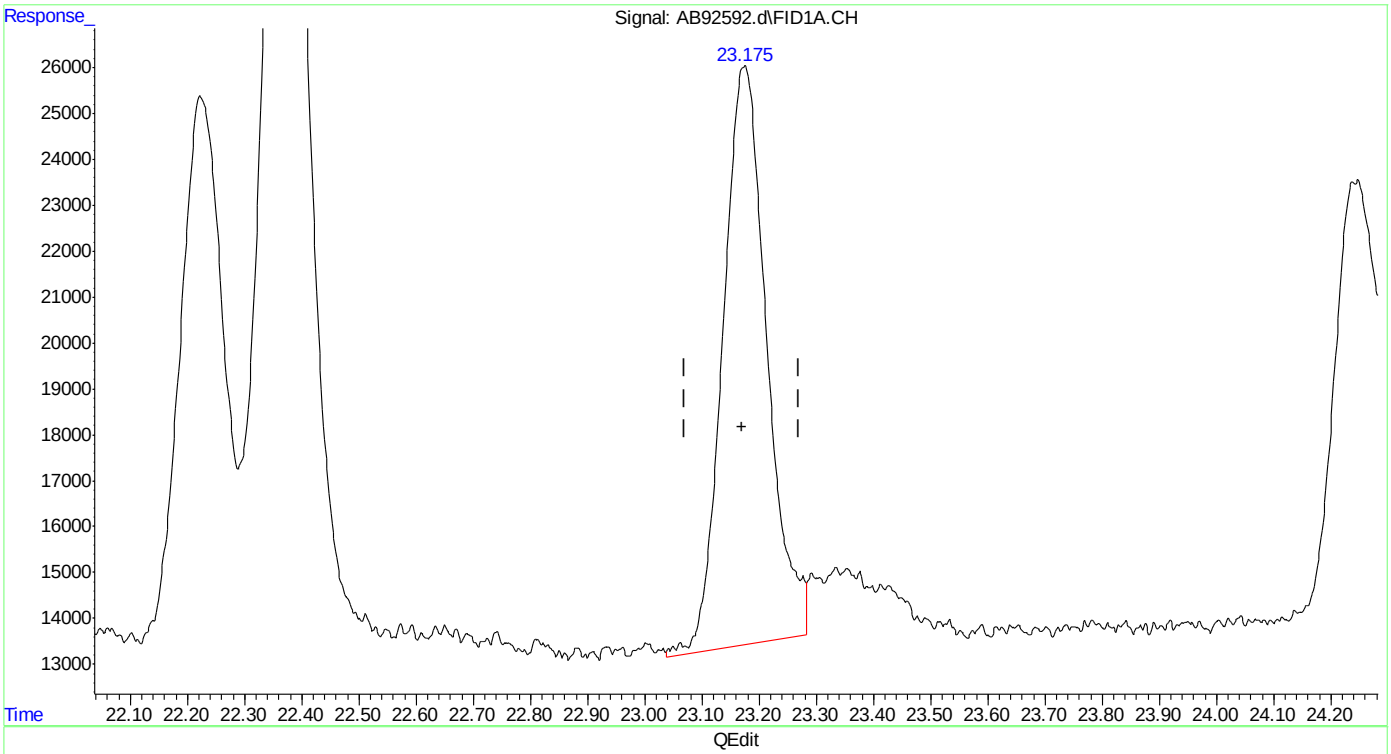
Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 12-Jan-16, 13:25:01
Operator  : haleyn
Sample    : ic5058-1
Misc      : gc25816,gab5058,,,,5,1
ALS Vial  : 9 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title  : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(15) o-xylene

23.175min 0.990 ppb m

response 672755

(+) = Expected Retention Time

ab160112vphmaster.M Tue Jan 12 14:07:00 2016





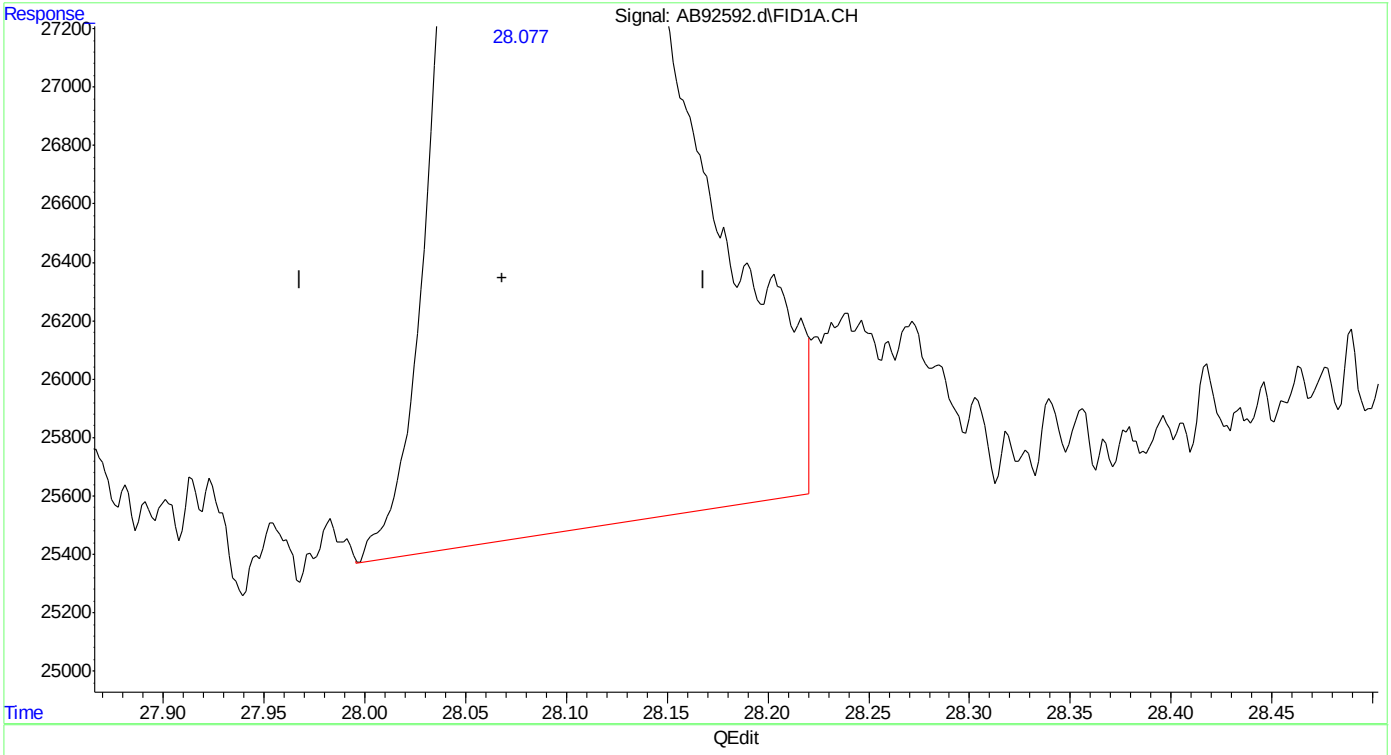
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160112\
Data File : AB92592.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 12-Jan-16, 13:25:01
Operator : haleyn
Sample : ic5058-1
Misc : gc25816,gab5058,,,,5,1
ALS Vial : 9 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 13:55:18 2016
Quant Method : C:\msdchem\1\methods\ab160112vphmaster.M
Quant Title : vph - master
QLast Update : Tue Jan 12 13:29:22 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(20) naphthalene
28.077min 1.196 ppb m
response 459832

(+) = Expected Retention Time

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

Quantitation Report (QT Reviewed)

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

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

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.167 | 20622765 | 46.855 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 93.71% | | |
| 6) s 2,3,4-trifluorotoluene | 20.220 | 18655151 | 45.506 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 91.01% | | |
| 16) s fluorobenzene #2 | 15.165 | 41135835 | 48.841 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 97.68% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.218 | 21681675 | 46.440 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 92.88% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.370 | 15547337 | 38.722 | ppb | m |
| 2) h rt7/10 | 8.710 | 17999511 | 44.830 | ppb | m |
| 3) h rt10/13 | 13.890 | 20920173 | 52.104 | ppb | m |
| 8) h rt20/25 | 21.900 | 26744531 | 42.689 | ppb | m |
| 10) h decane | 24.230 | 27320621 | 43.608 | ppb | |
| 11) h butylcyclohexane | 25.263 | 28763512 | 45.911 | ppb | m |
| 14) mtbe #2 | 9.529 | 23920523 | 47.419 | ppb | m |
| 15) benzene #2 | 14.664 | 65660528 | 50.444 | ppb | |
| 17) toluene #2 | 19.122 | 56355118 | 49.292 | ppb | |
| 19) ethylbenzene #2 | 22.216 | 45881900 | 49.556 | ppb | |
| 20) m,p-xylene #2 | 22.359 | 112454382 | 106.017 | ppb | |
| 21) o-xylene #2 | 23.164 | 47383447 | 50.724 | ppb | |
| 22) t 1,3,5-trimethylbenzen... | 24.591 | 63131896 | 48.321 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.108 | 47797519 | 49.943 | ppb | |
| 24) naphthalene #2 | 28.052 | 33276956 | 46.032 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.160 | 47972410 | 50.073 | ppb | m |

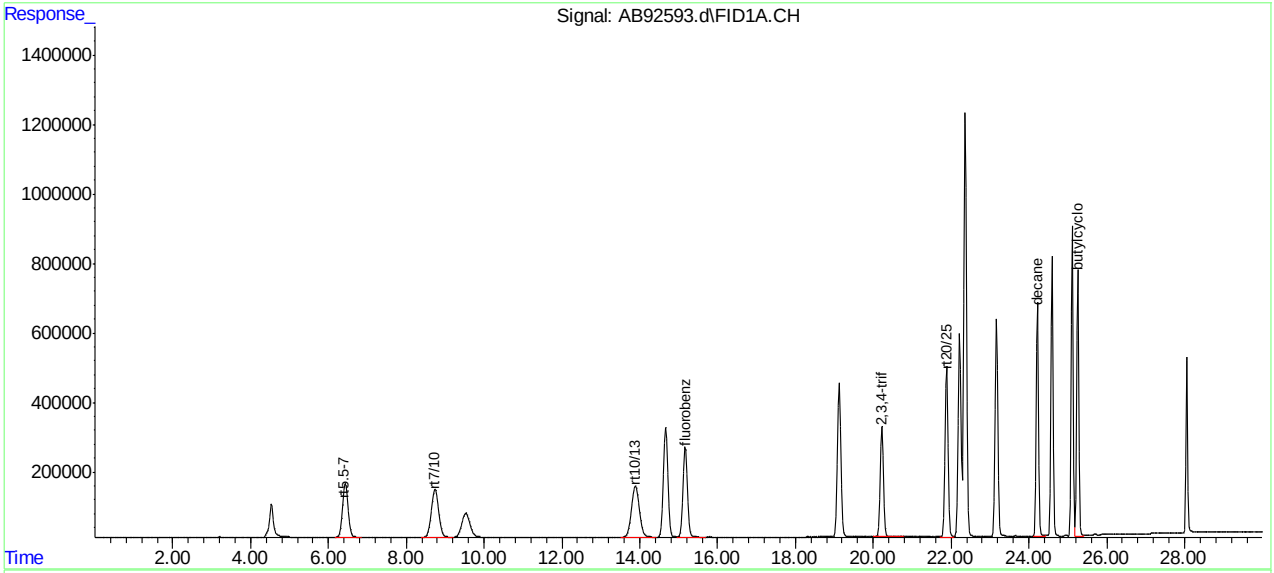
(f)=RT Delta > 1/2 Window (m)=manual int.

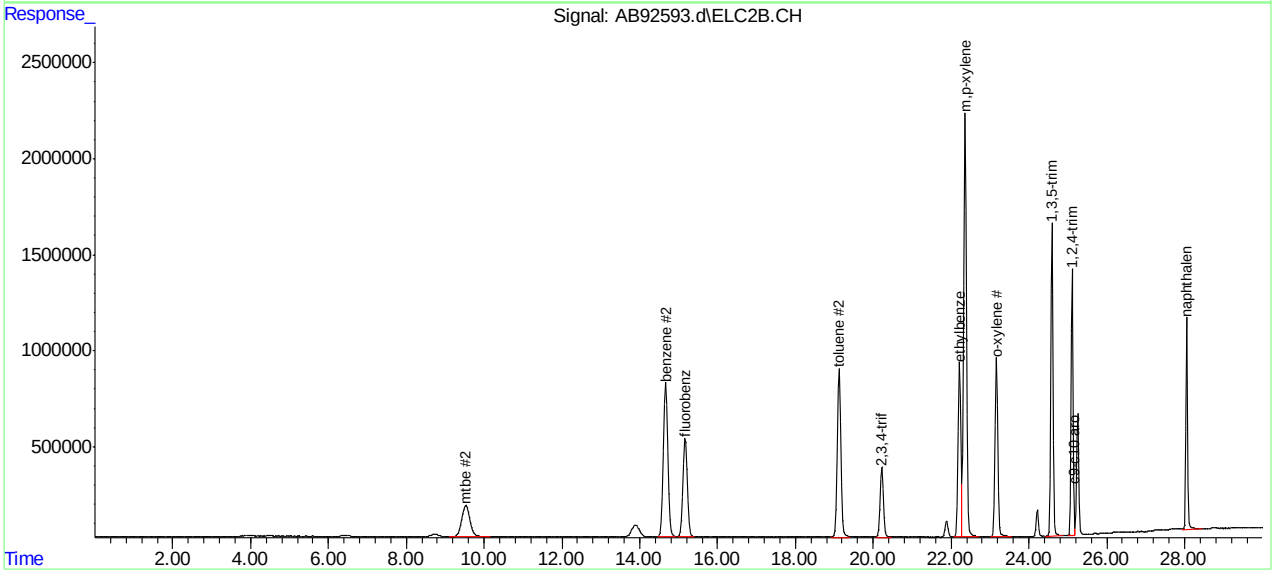
Quantitation Report (QT Reviewed)

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

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

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



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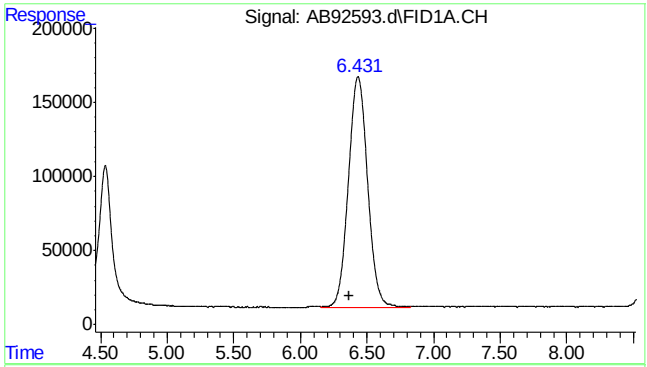
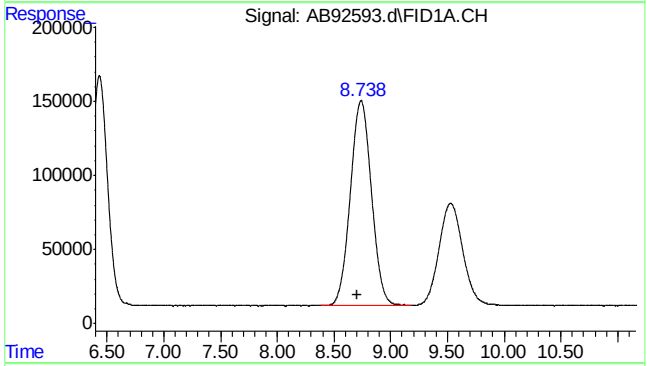


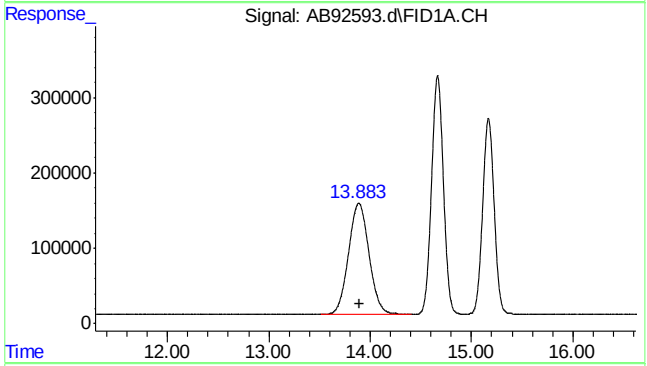

#1 rt5.5-7

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



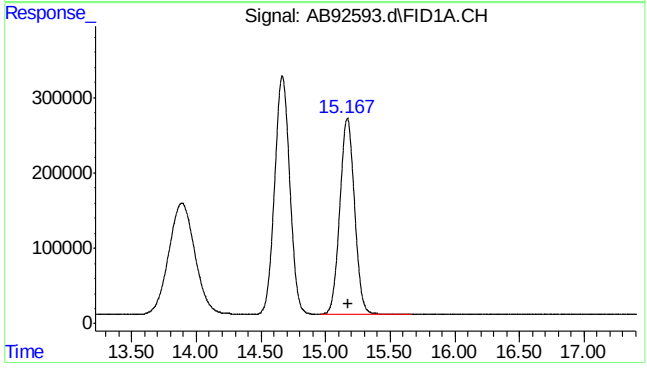

#2 rt7/10

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




#3 rt10/13

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



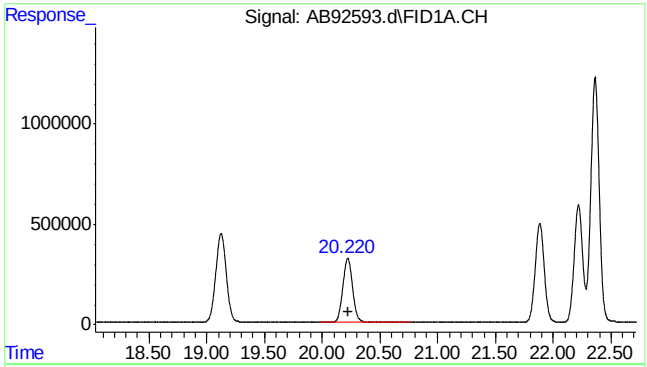

#4 fluorobenzene

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



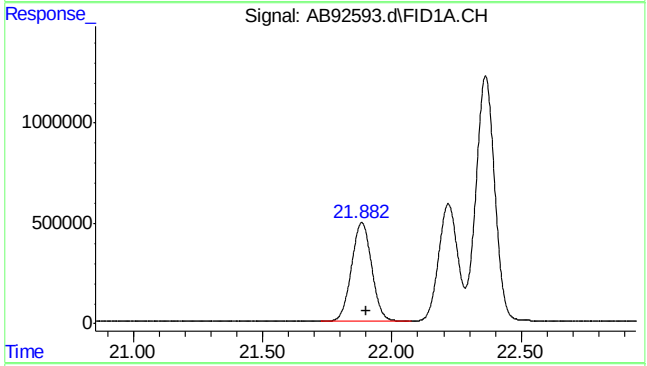


SGS ACCUTEST MC46487



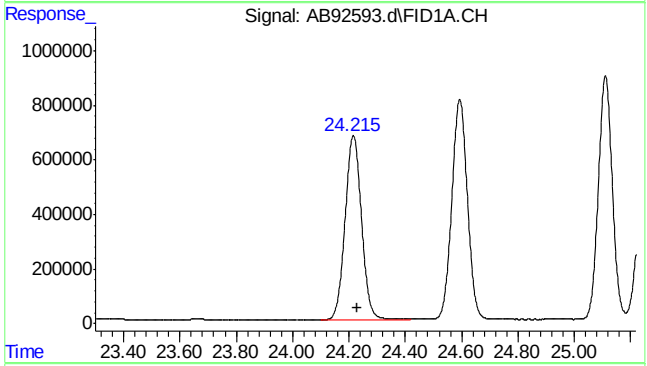

#6 2,3,4-trifluorotoluene

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



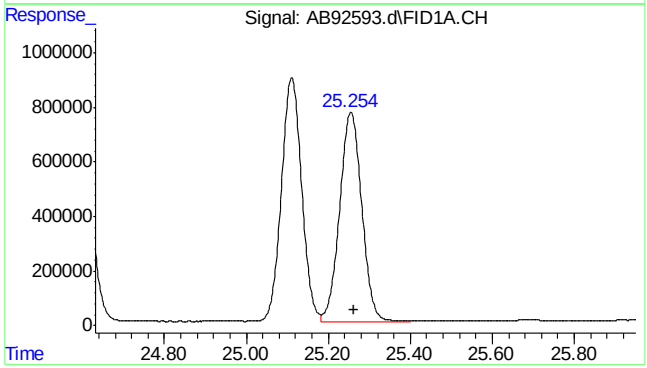

#8 rt20/25

```
      R.T.:   21.900 min
Delta R.T.:    0.000 min
  Response:  26744531
      Conc:  42.69 ppb m
```




#10 decane

```
      R.T.:   24.230 min
Delta R.T.:    0.000 min
  Response:  27320621
      Conc:  43.61 ppb
```




#11 butylcyclohexane

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

7.5.10

7



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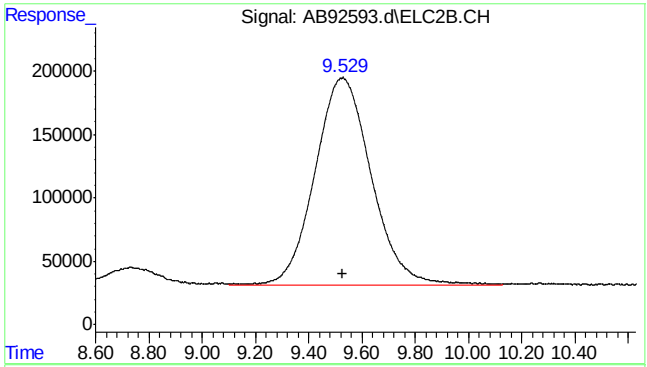
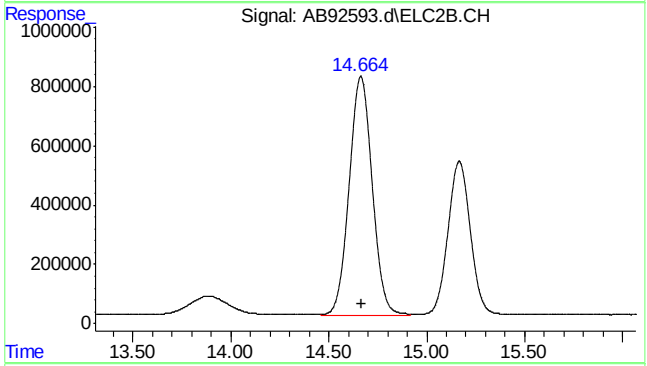


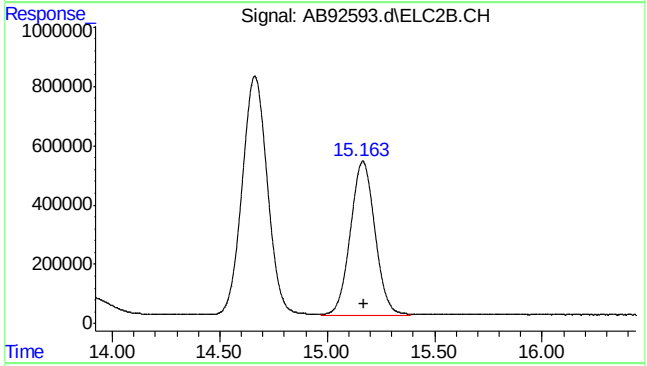

#14 mtbe #2

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



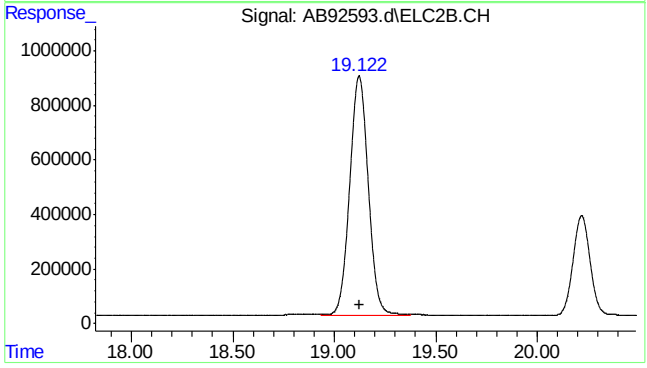

#15 benzene #2

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




#16 fluorobenzene #2

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



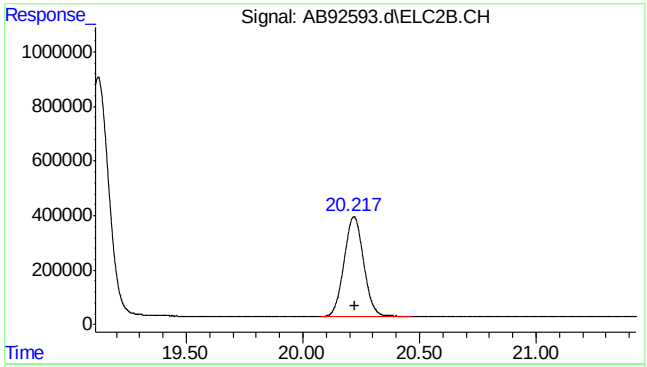

#17 toluene #2

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



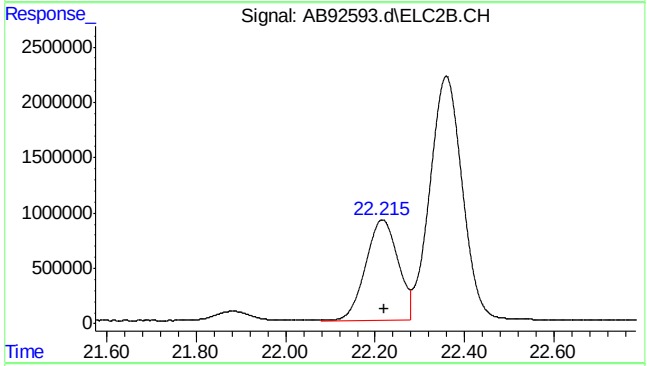


SGS ACCUTEST MC46487



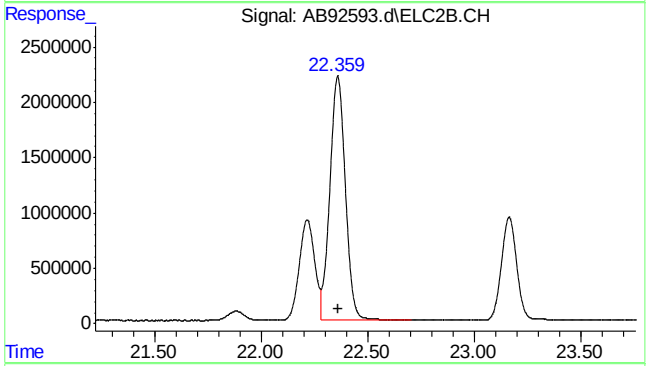

#18 2,3,4-trifluorotoluene #2

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



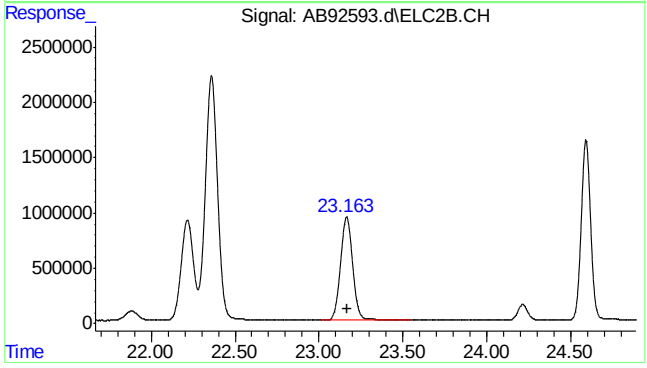

#19 ethylbenzene #2

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




#20 m,p-xylene #2

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



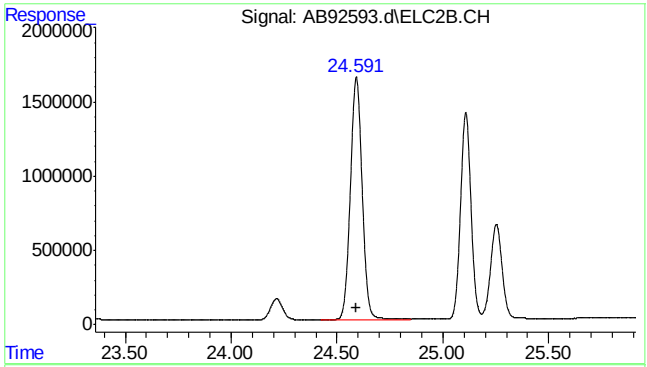

#21 o-xylene #2

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



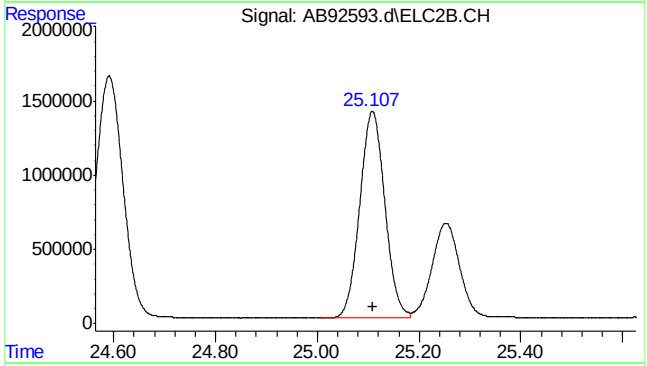


SGS ACCUTEST MC46487



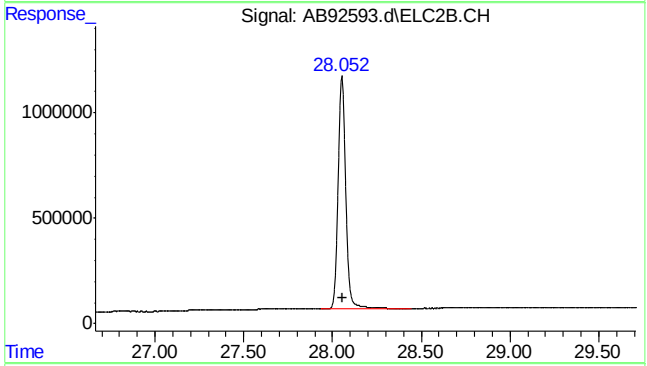

#22 1,3,5-trimethylbenzene #2

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



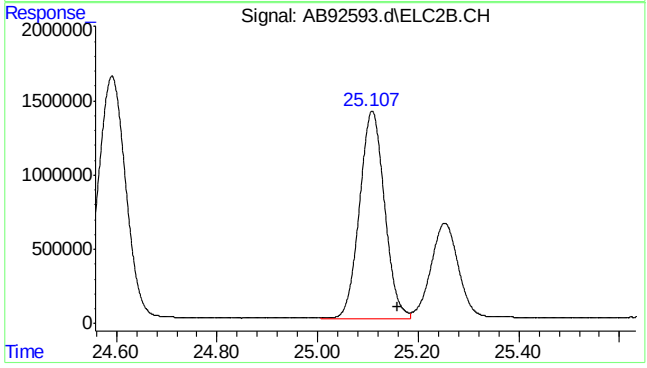

#23 1,2,4-trimethylbenzene #2

R.T.: 25.108 min
Delta R.T.: -0.002 min
Response: 47797519
Conc: 49.94 ppb




#24 naphthalene #2

R.T.: 28.052 min
Delta R.T.: -0.007 min
Response: 33276956
Conc: 46.03 ppb m




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

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





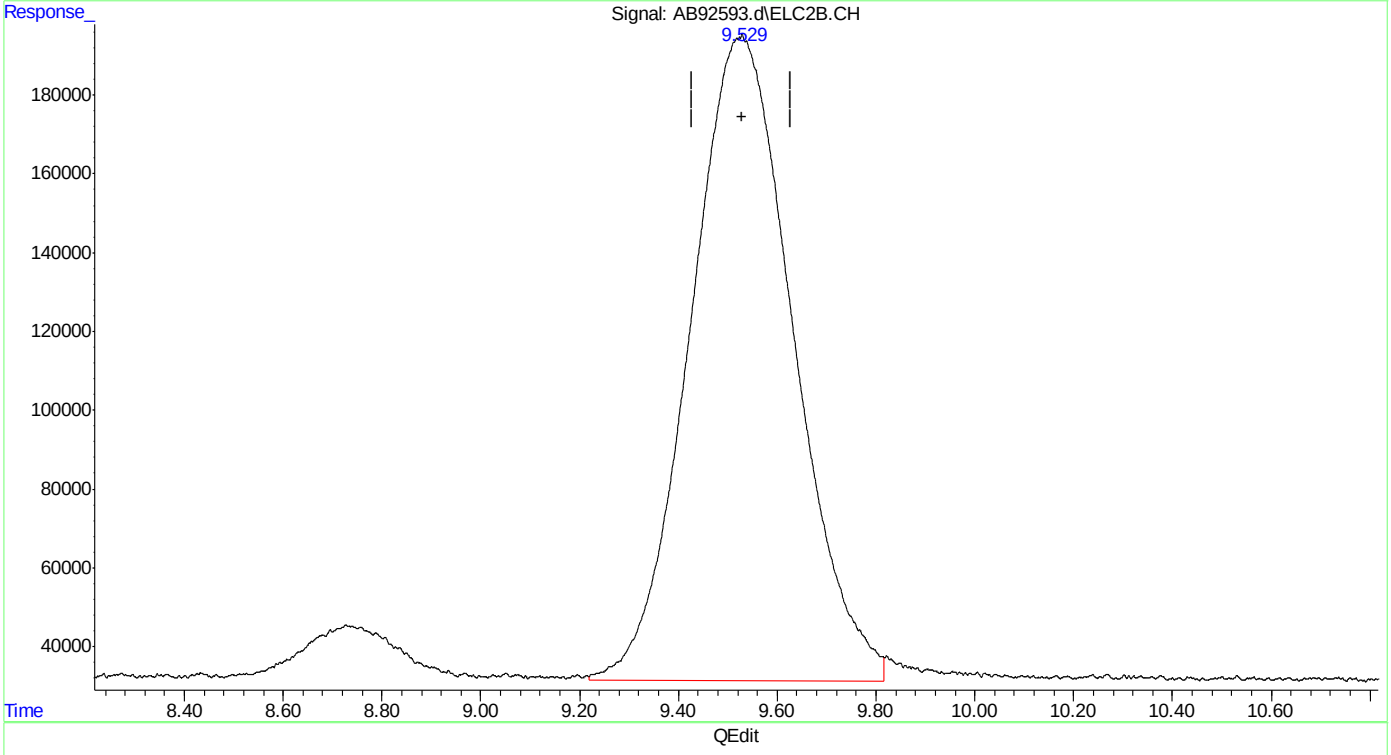
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.529min 46.820 ppb
response 23618486

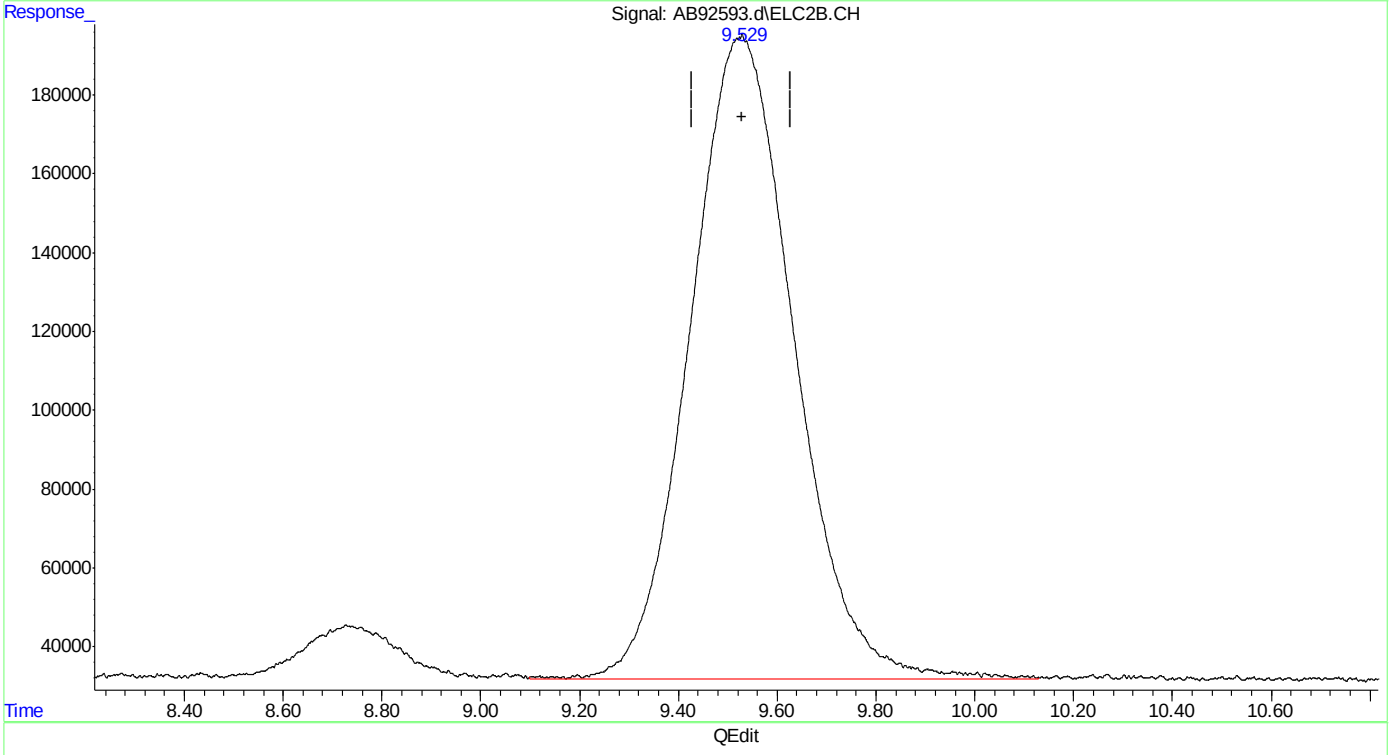
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:17 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.529min 47.419 ppb m
response 23920523

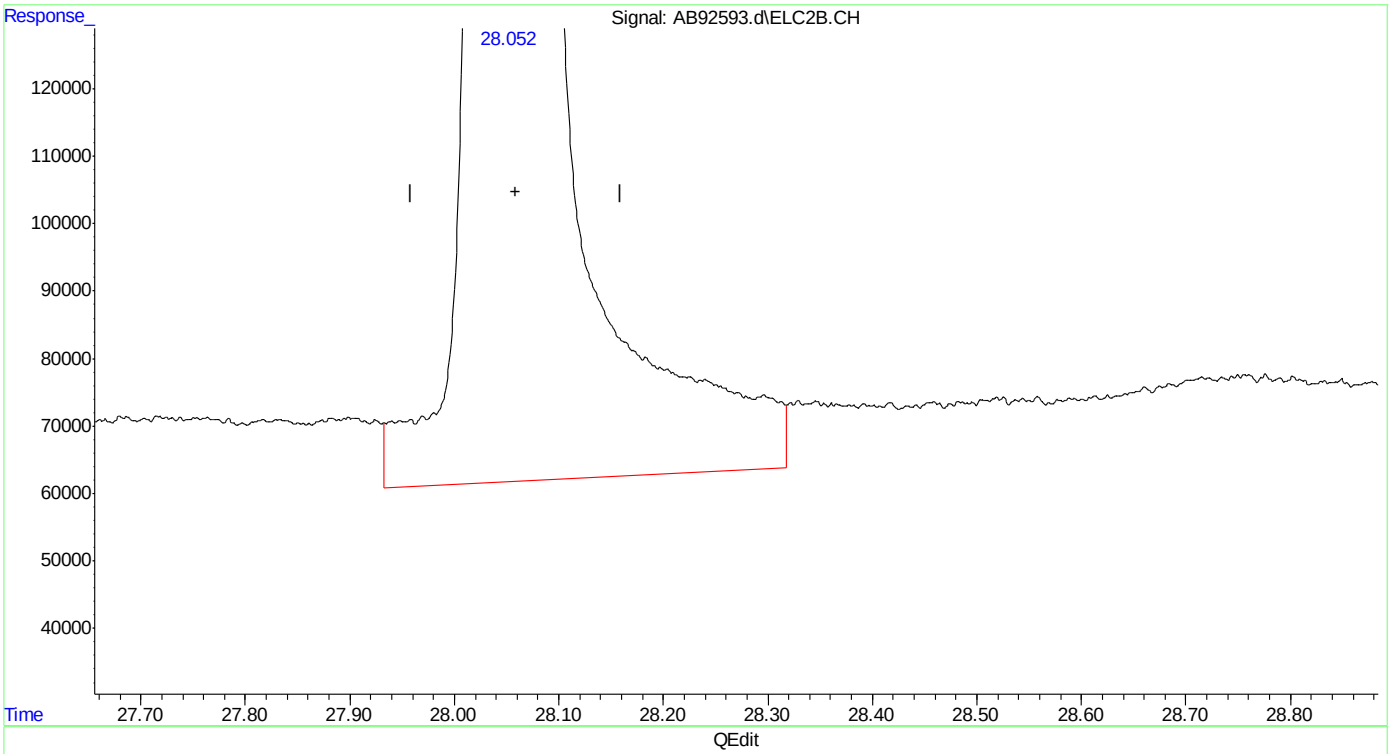
(+) = Expected Retention Time
ab160112vph.M Tue Jan 12 15:41:23 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.053min 48.358 ppb

response 34958357

(+) = Expected Retention Time

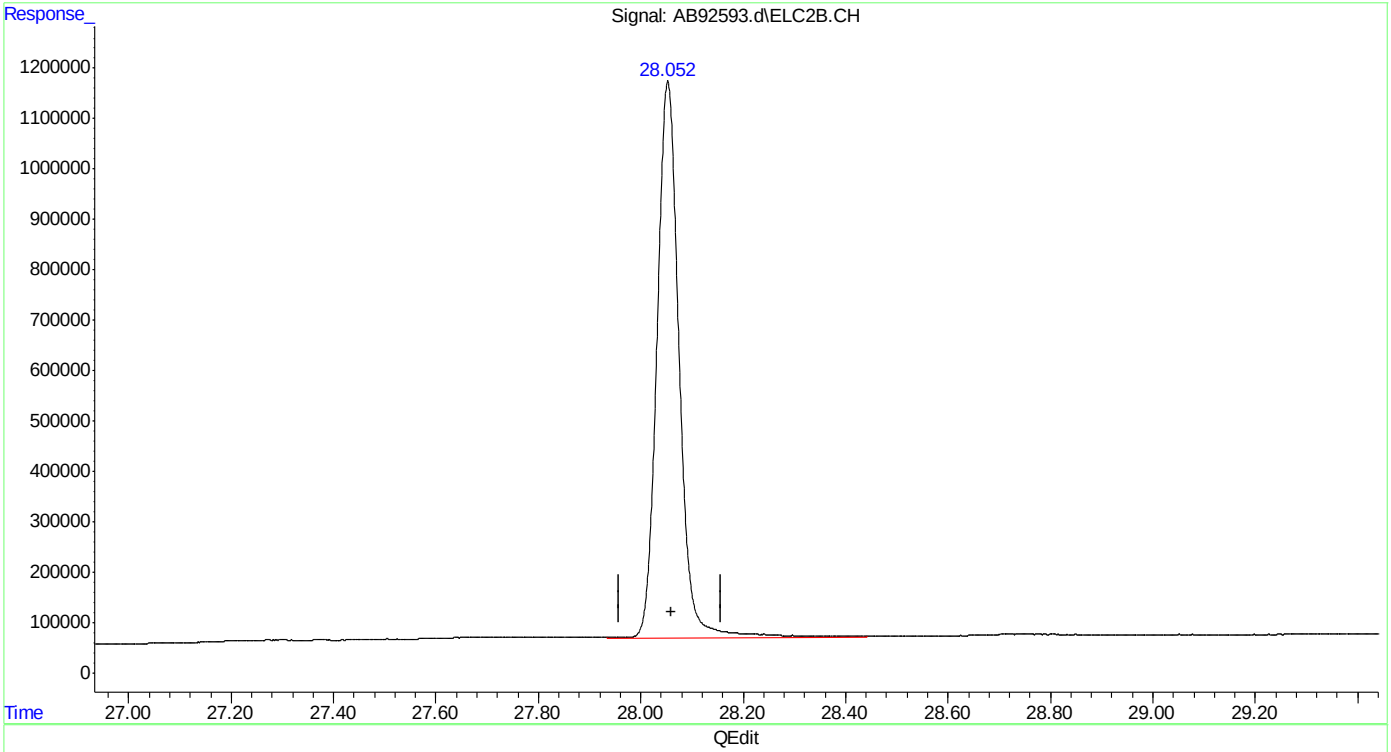
ab160112vph.M Tue Jan 12 15:41:56 2016

Quantitation Report (Qedit)

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

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jan 12 15:40:22 2016
Quant Method : C:\msdchem\1\methods\ab160112vph.M
Quant Title  : vph
QLast Update : Tue Jan 12 15:39:56 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.052min 46.032 ppb m

response 33276956

(+) = Expected Retention Time

ab160112vph.M Tue Jan 12 15:42:02 2016



SGS ACCUTEST MC46487

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:00:30
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:36:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.129 | 21458254 | 48.753 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 97.51% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 18982196 | 46.303 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 92.61% | | |
| 16) s fluorobenzene #2 | 15.129 | 36323573 | 43.127 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 86.25% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 18679630 | 40.010 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 80.02% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 16229843 | 40.422 | ppb | m |
| 2) h rt7/10 | 8.720 | 18912278 | 47.103 | ppb | m |
| 3) h rt10/13 | 13.870 | 21255550 | 52.939 | ppb | m |
| 8) h rt20/25 | 21.870 | 27109958 | 43.272 | ppb | m |
| 10) h decane | 24.200 | 28137070 | 44.911 | ppb | |
| 11) h butylcyclohexane | 25.240 | 29842470 | 47.633 | ppb | m |
| 14) mtbe #2 | 9.497 | 21880630 | 43.375 | ppb | |
| 15) benzene #2 | 14.625 | 55291742 | 42.478 | ppb | |
| 17) toluene #2 | 19.084 | 47622279 | 41.654 | ppb | |
| 19) ethylbenzene #2 | 22.183 | 39202450 | 42.342 | ppb | |
| 20) m,p-xylene #2 | 22.327 | 95125678 | 89.680 | ppb | |
| 21) o-xylene #2 | 23.133 | 39217954 | 41.983 | ppb | |
| 22) t 1,3,5-trimethylbenzen... | 24.567 | 51375044 | 39.322 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.085 | 39352761 | 41.119 | ppb | m |
| 24) naphthalene #2 | 28.031 | 32264681 | 44.632 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 39255765 | 40.975 | ppb | m |

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

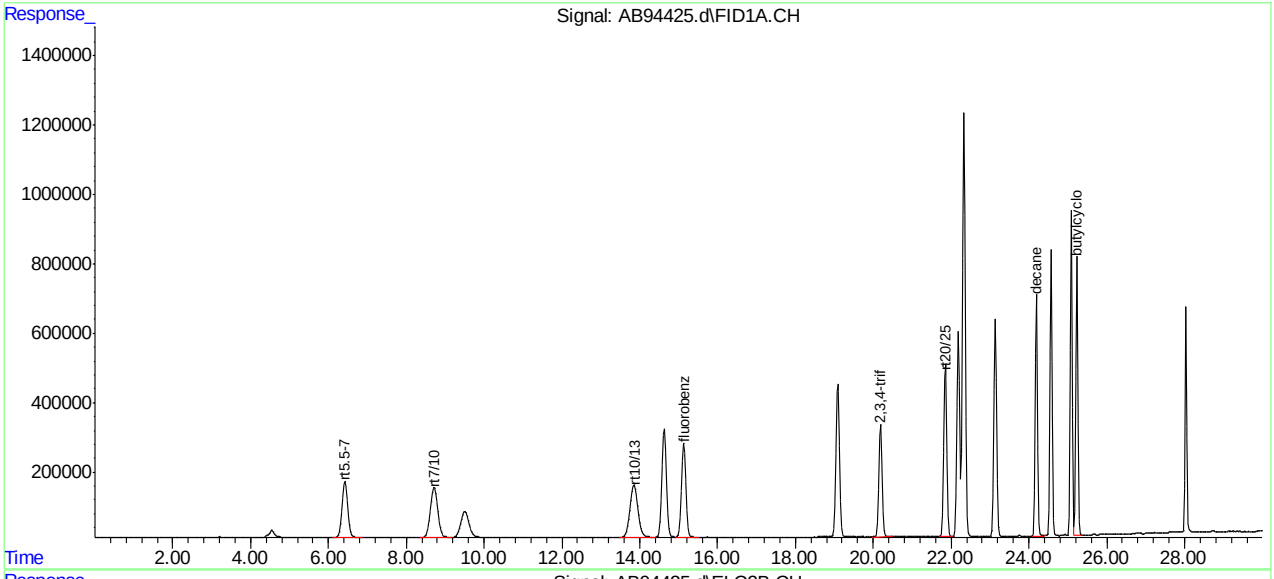
7.5.11
7

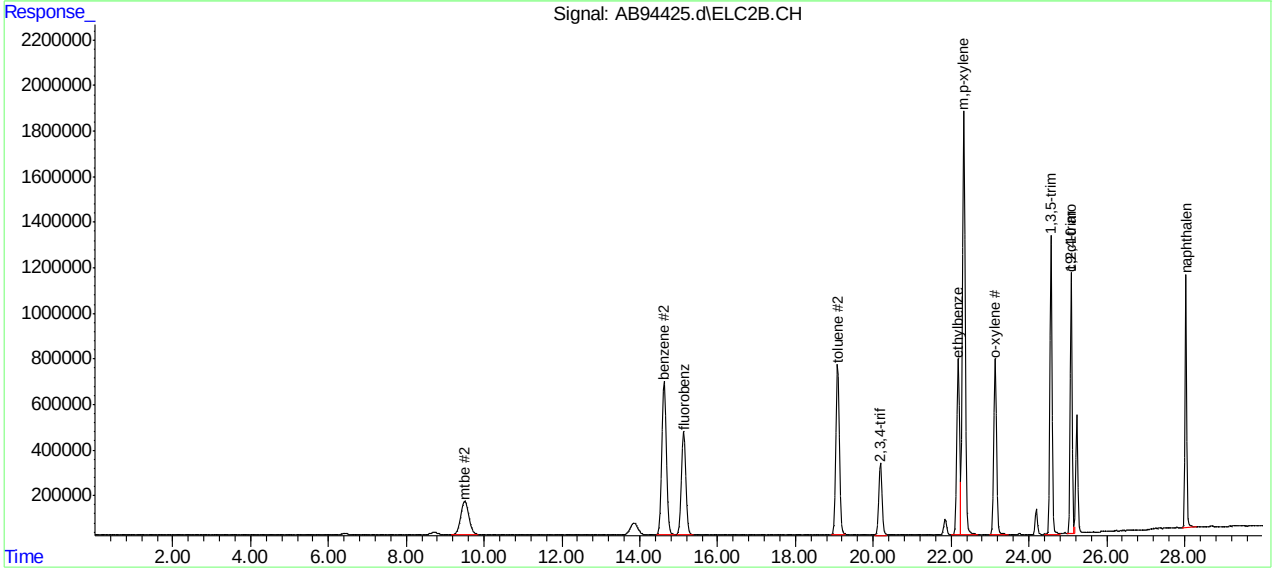
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:00:30
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:36:54 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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



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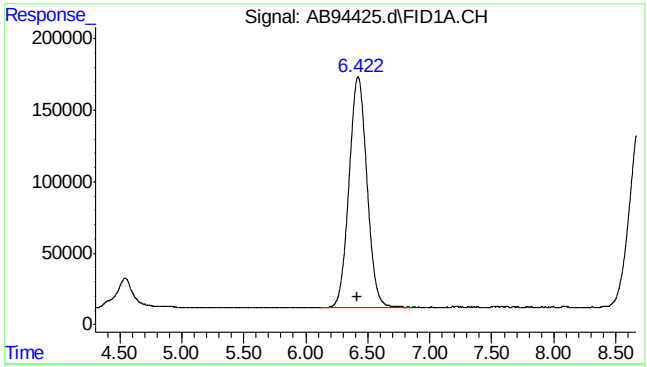
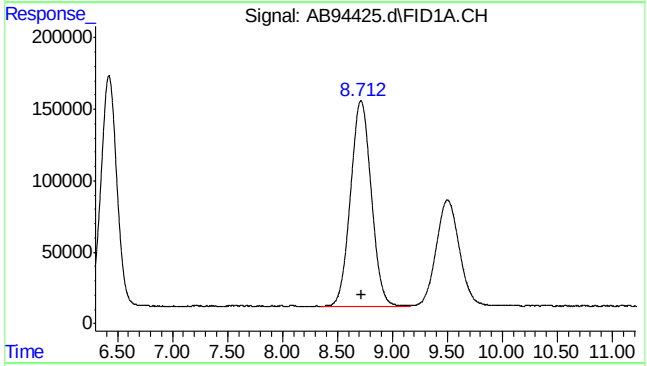


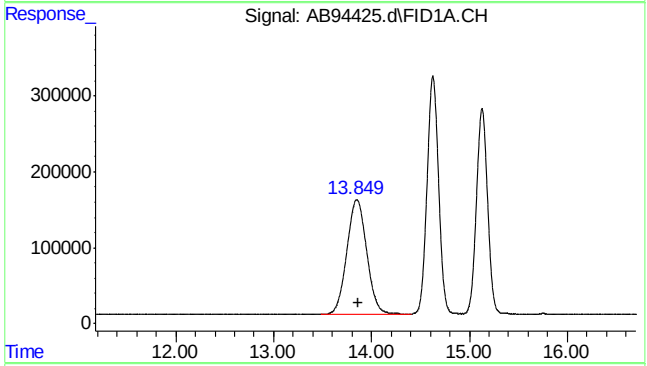

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 16229843
Conc: 40.42 ppb m



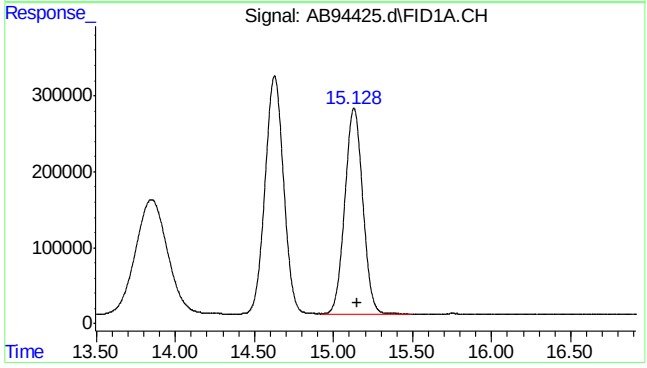

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18912278
Conc: 47.10 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21255550
Conc: 52.94 ppb m




#4 fluorobenzene

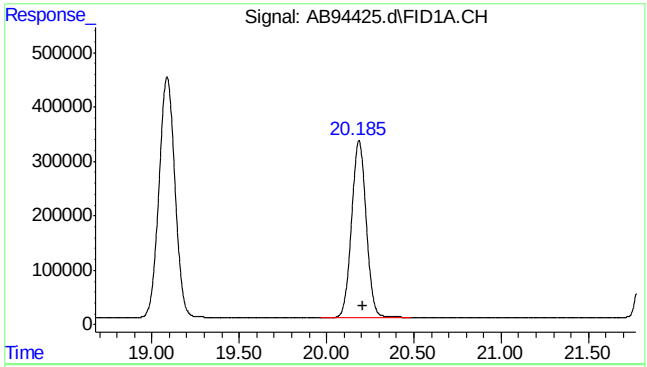
R.T.: 15.129 min
Delta R.T.: -0.022 min
Response: 21458254
Conc: 48.75 ppb

7.5.11

7

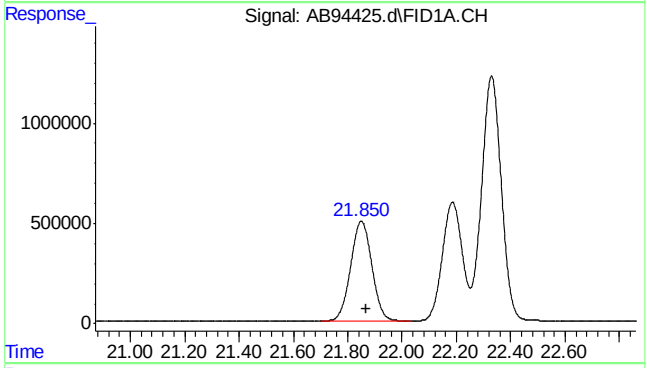


SGS ACCUTEST MC46487



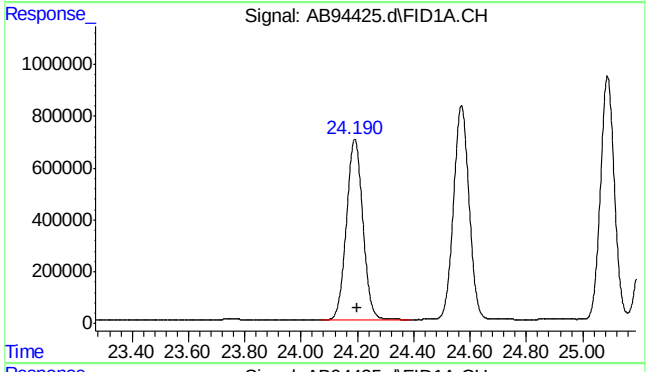

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.020 min
Response: 18982196
Conc: 46.30 ppb



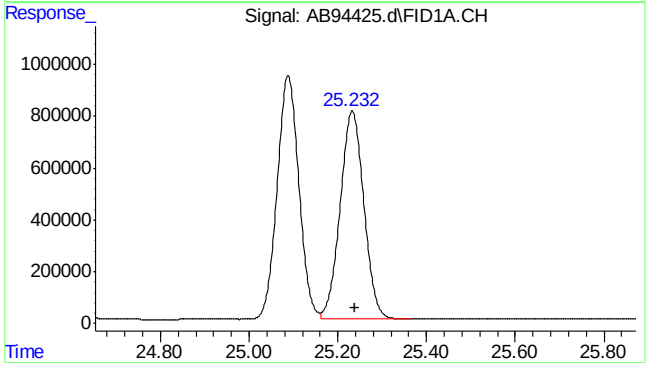

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 27109958
Conc: 43.27 ppb m




#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 28137070
Conc: 44.91 ppb

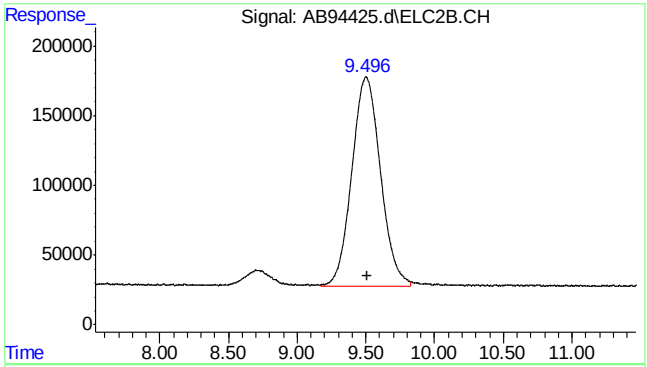



#11 butylcyclohexane

R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29842470
Conc: 47.63 ppb m

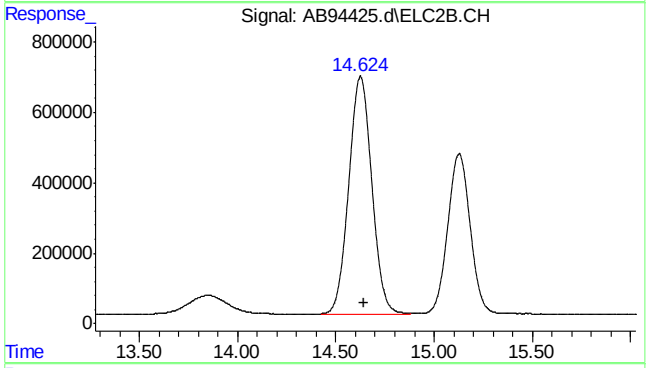


SGS ACCUTEST MC46487



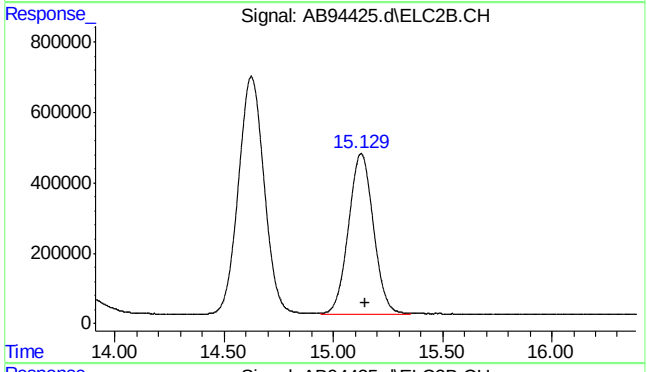

#14 mtbe #2

R.T.: 9.497 min
Delta R.T.: -0.014 min
Response: 21880630
Conc: 43.38 ppb



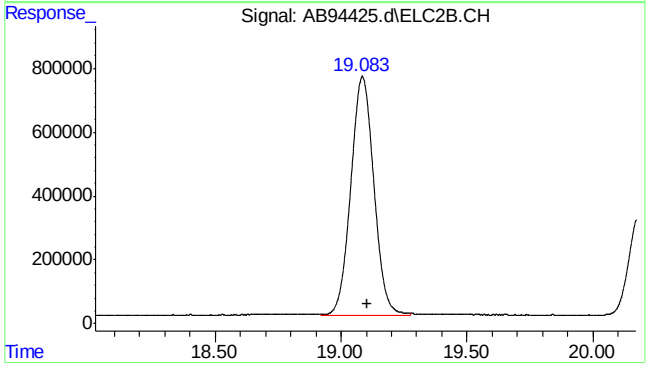

#15 benzene #2

R.T.: 14.625 min
Delta R.T.: -0.021 min
Response: 55291742
Conc: 42.48 ppb




#16 fluorobenzene #2

R.T.: 15.129 min
Delta R.T.: -0.019 min
Response: 36323573
Conc: 43.13 ppb

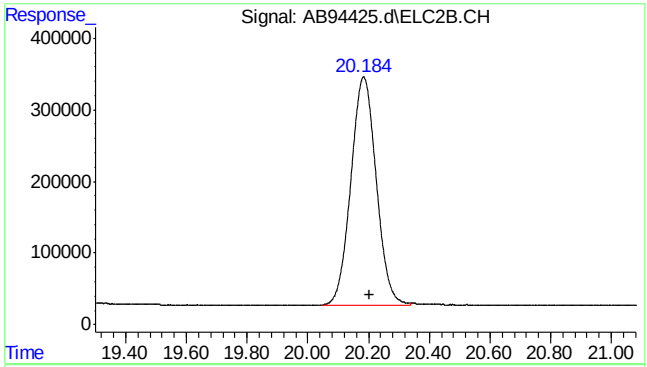



#17 toluene #2

R.T.: 19.084 min
Delta R.T.: -0.022 min
Response: 47622279
Conc: 41.65 ppb

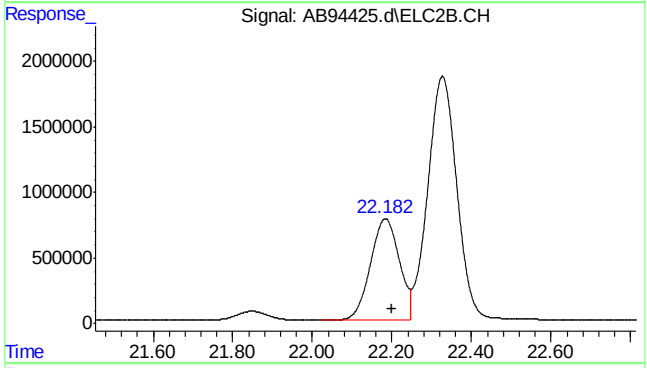


SGS ACCUTEST MC46487



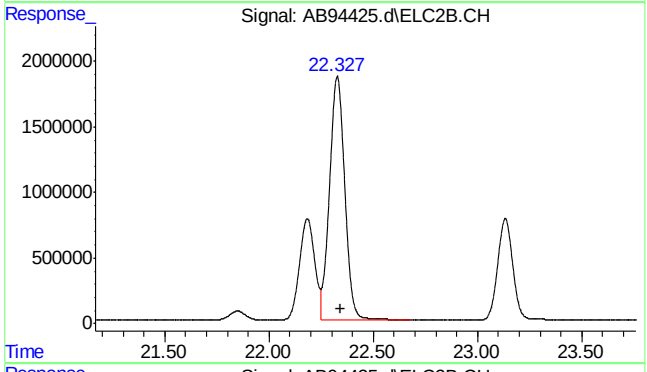

#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 18679630
Conc: 40.01 ppb



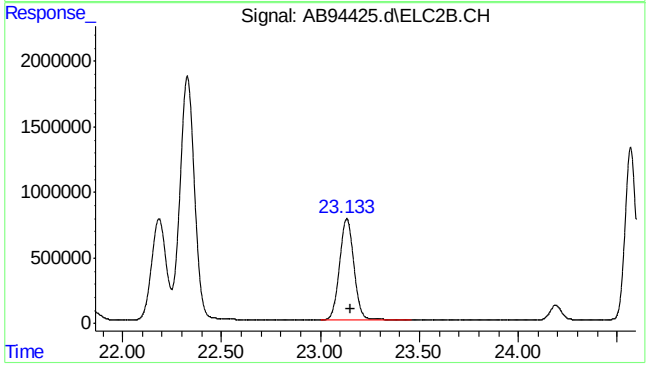

#19 ethylbenzene #2

R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 39202450
Conc: 42.34 ppb




#20 m,p-xylene #2

R.T.: 22.327 min
Delta R.T.: -0.017 min
Response: 95125678
Conc: 89.68 ppb

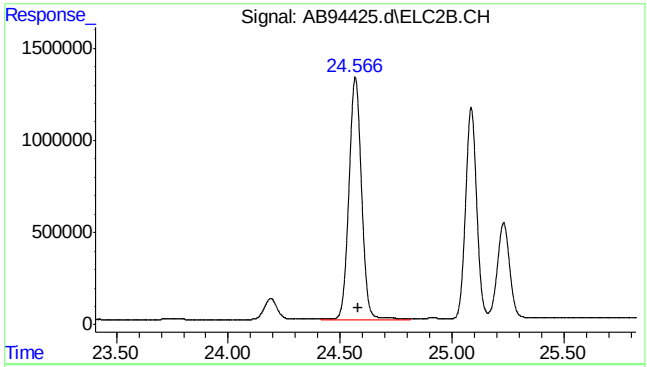



#21 o-xylene #2

R.T.: 23.133 min
Delta R.T.: -0.017 min
Response: 39217954
Conc: 41.98 ppb

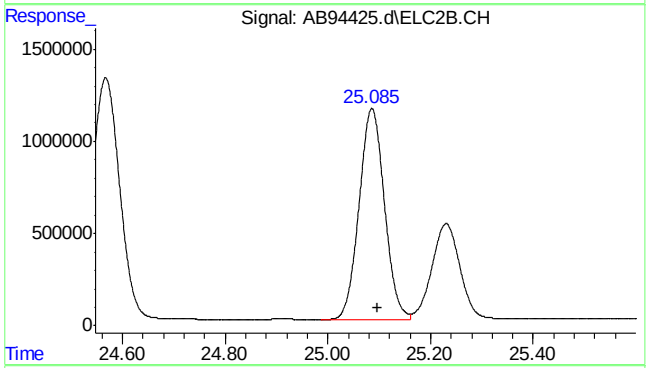


SGS ACCUTEST MC46487



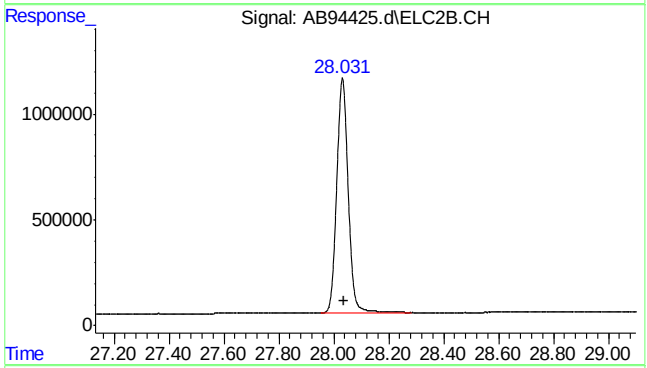

#22 1,3,5-trimethylbenzene #2

R.T.: 24.567 min
Delta R.T.: -0.012 min
Response: 51375044
Conc: 39.32 ppb



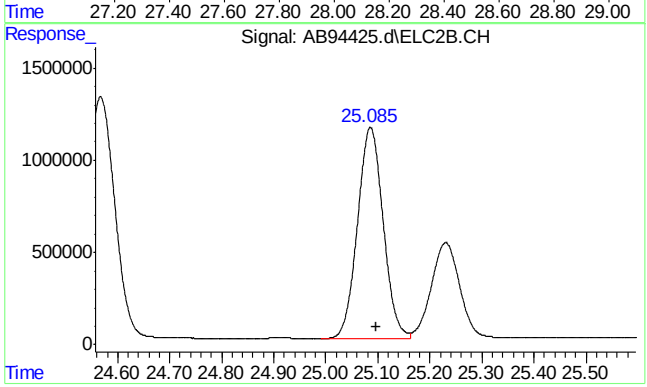

#23 1,2,4-trimethylbenzene #2

R.T.: 25.085 min
Delta R.T.: -0.011 min
Response: 39352761
Conc: 41.12 ppb m




#24 naphthalene #2

R.T.: 28.031 min
Delta R.T.: -0.007 min
Response: 32264681
Conc: 44.63 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 39255765
Conc: 40.97 ppb m





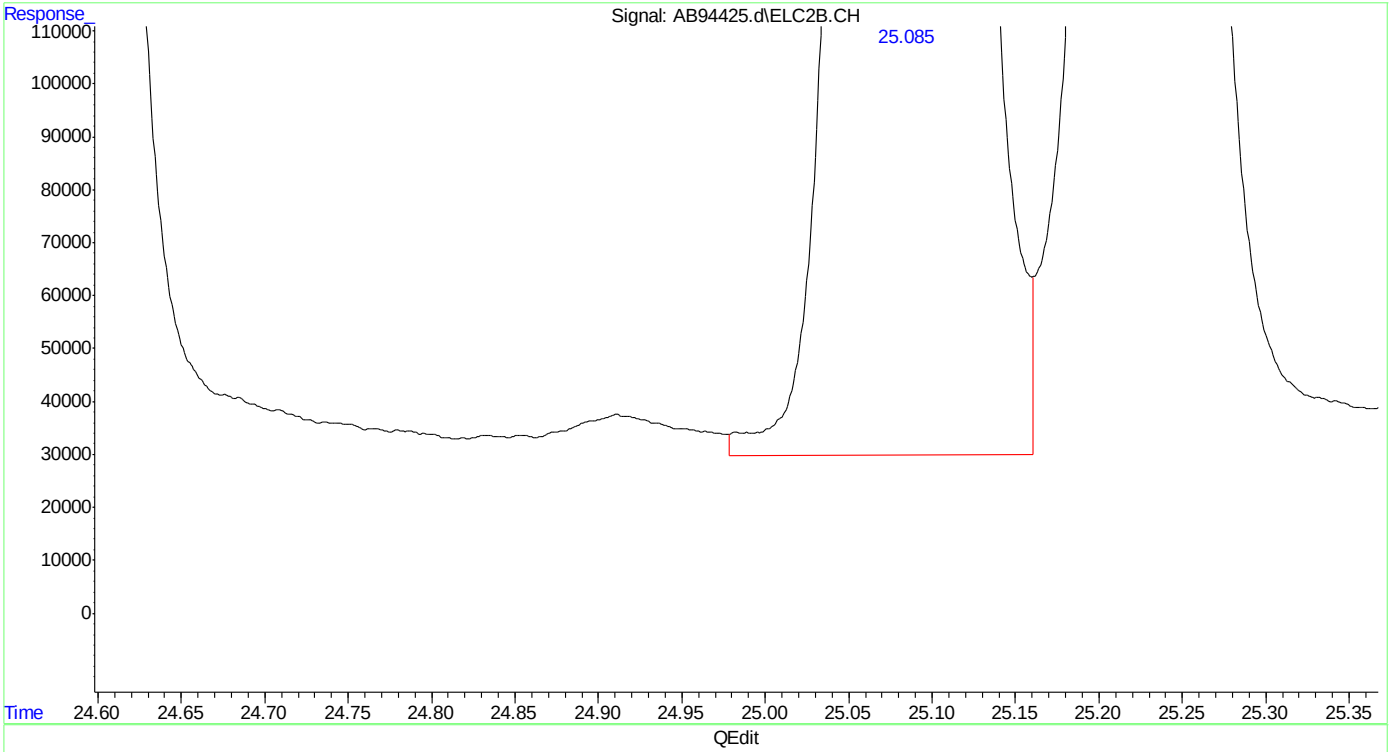
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:00:30
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:35:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.086min 41.467 ppb
response 39685257

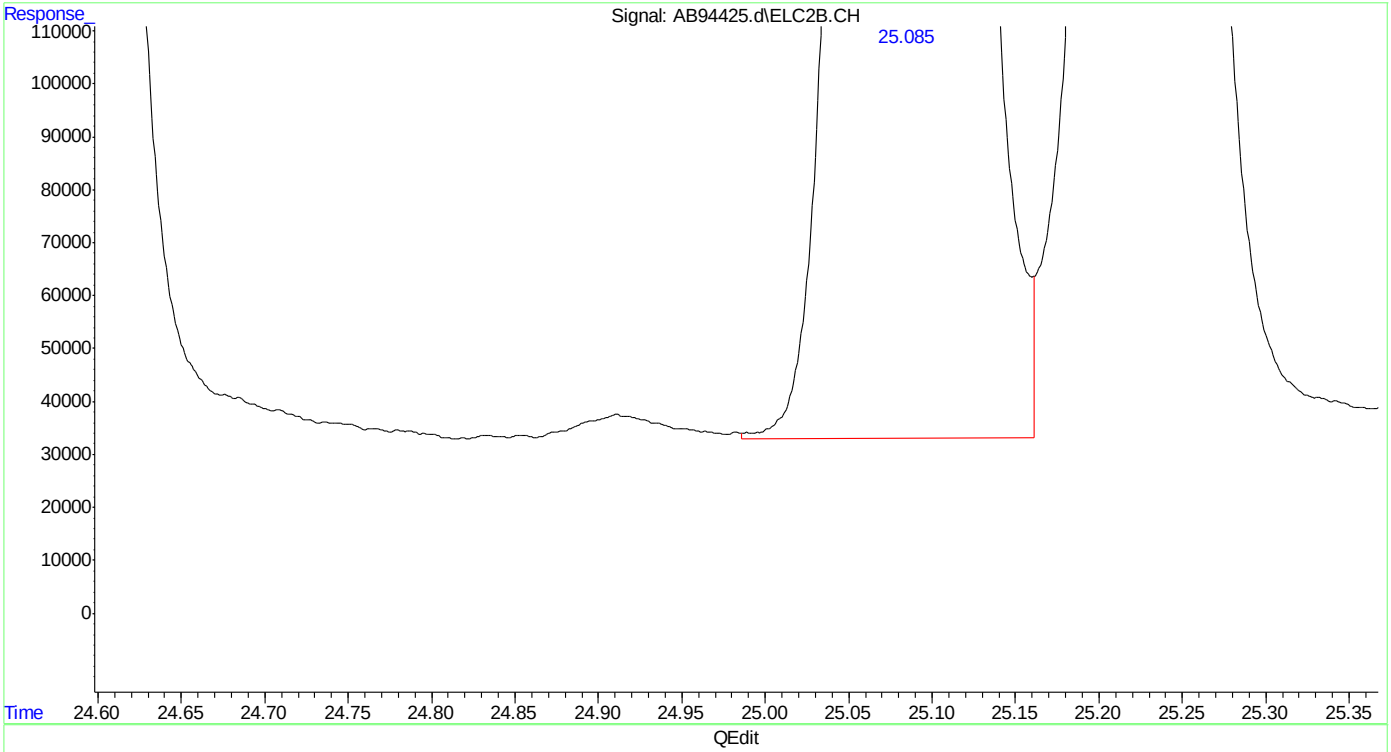
(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 08:36:33 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:00:30
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:35:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(23) 1,2,4-trimethylbenzene #2
25.085min 41.119 ppb m
response 39352761

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 08:36:38 2016





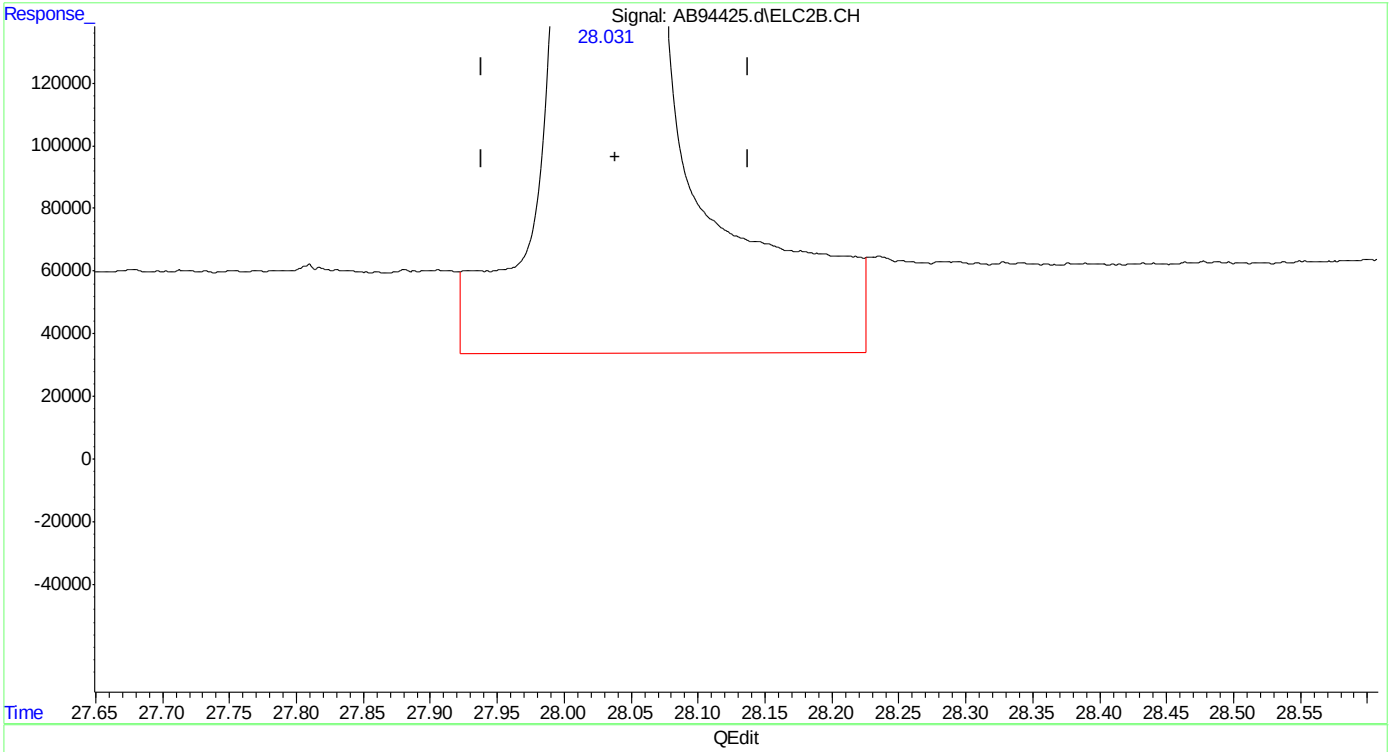
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 22-Jun-16, 08:00:30
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 1 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:35:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.032min 51.290 ppb

response 37078059

(+) = Expected Retention Time

ab160622vph.M Wed Jun 22 08:36:42 2016



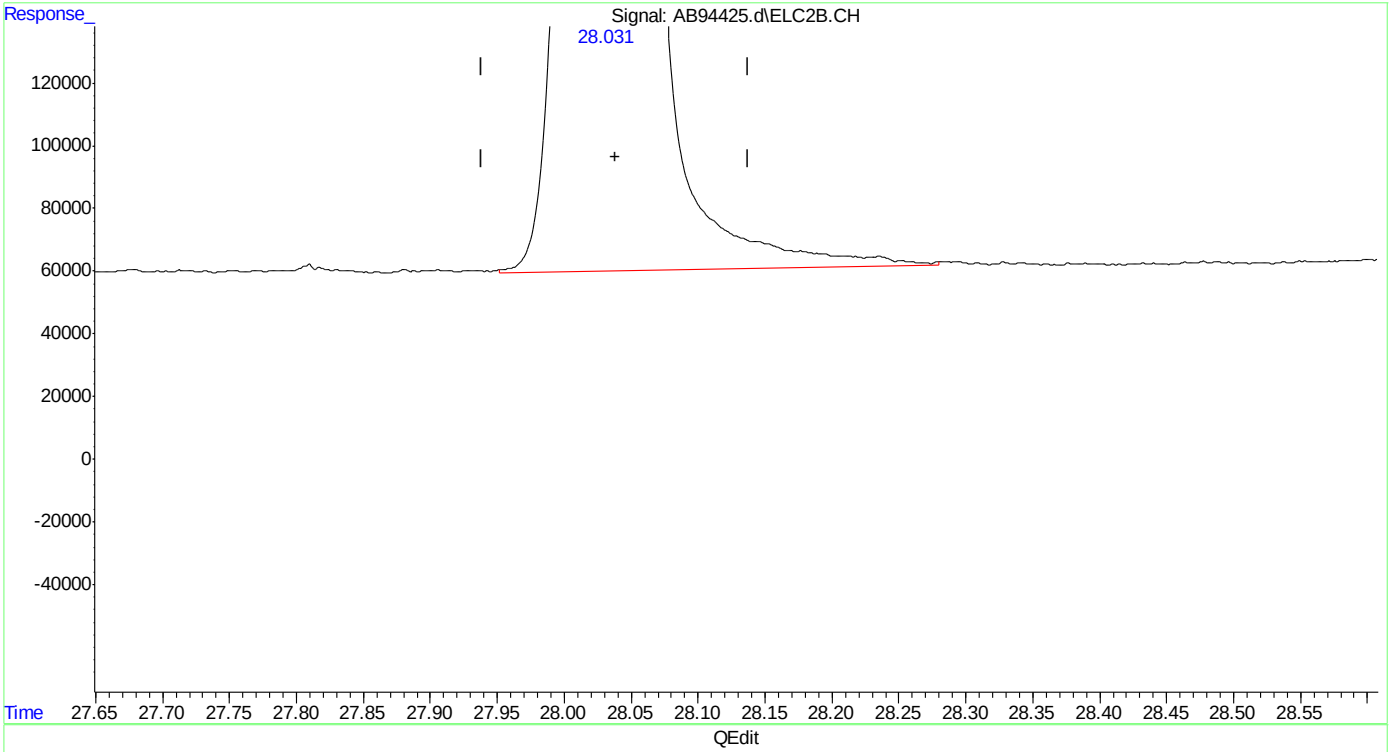
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94425.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 22-Jun-16, 08:00:30
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 1 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 22 08:35:14 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.031min 44.632 ppb m
response 32264681

(+) = Expected Retention Time
ab160622vph.M Wed Jun 22 08:36:47 2016

Manual Integrations
APPROVED
(compounds with "m" flag)
Andri Piluri
06/23/16 14:33

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 23-Jun-16, 00:34:25
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:18:03 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

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

| Compound | R.T. | Response | Conc | Units | |
|---|---|---|---|---|---|
| System Monitoring Compounds | | | | | |
| 4) s fluorobenzene | 15.130 | 20940158 | 47.576 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 95.15% | | |
| 6) s 2,3,4-trifluorotoluene | 20.186 | 18540196 | 45.225 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 90.45% | | |
| 16) s fluorobenzene #2 | 15.128 | 36138099 | 42.907 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 85.81% | | |
| 18) s 2,3,4-trifluorotoluen... | 20.184 | 18657747 | 39.963 | ppb | |
| Spiked Amount 50.000 | | Recovery = | 79.93% | | |
| Target Compounds | | | | | |
| 1) h rt5.5-7 | 6.420 | 15864119 | 39.511 | ppb | m |
| 2) h rt7/10 | 8.720 | 18698779 | 46.571 | ppb | m |
| 3) h rt10/13 | 13.870 | 21599721 | 53.796 | ppb | m |
| 8) h rt20/25 | 21.870 | 26518892 | 42.328 | ppb | m |
| 10) h decane | 24.200 | 27327749 | 43.619 | ppb | |
| 11) h butylcyclohexane | 25.240 | 29289729 | 46.751 | ppb | m |
| 14) mtbe #2 | 9.495 | 22685846 | 44.971 | ppb | m |
| 15) benzene #2 | 14.626 | 55654754 | 42.757 | ppb | |
| 17) toluene #2 | 19.085 | 48064012 | 42.040 | ppb | |
| 19) ethylbenzene #2 | 22.183 | 39447660 | 42.607 | ppb | |
| 20) m,p-xylene #2 | 22.327 | 95063617 | 89.622 | ppb | |
| 21) o-xylene #2 | 23.133 | 39195995 | 41.959 | ppb | |
| 22) t 1,3,5-trimethylbenzen... | 24.566 | 50714601 | 38.817 | ppb | |
| 23) 1,2,4-trimethylbenzen... | 25.085 | 39179491 | 40.938 | ppb | |
| 24) naphthalene #2 | 28.028 | 31865006 | 44.079 | ppb | m |
| 25) h c9-c10 arom as 1,2,4-tmb | 25.096 | 39234075 | 40.952 | ppb | m |

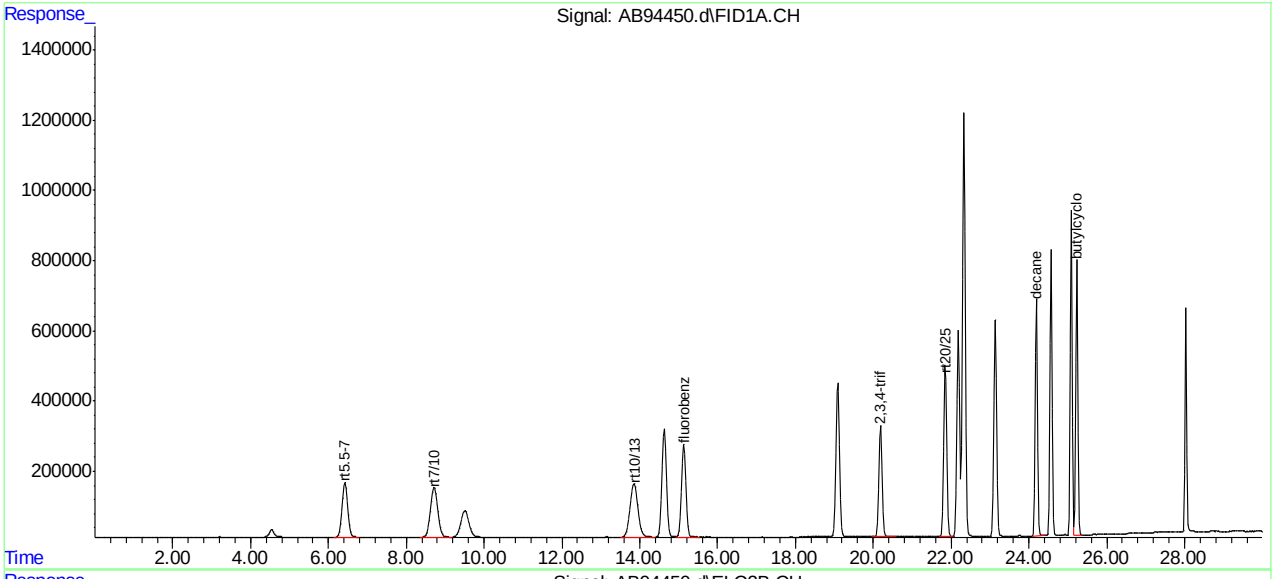
(f)=RT Delta > 1/2 Window (m)=manual int.

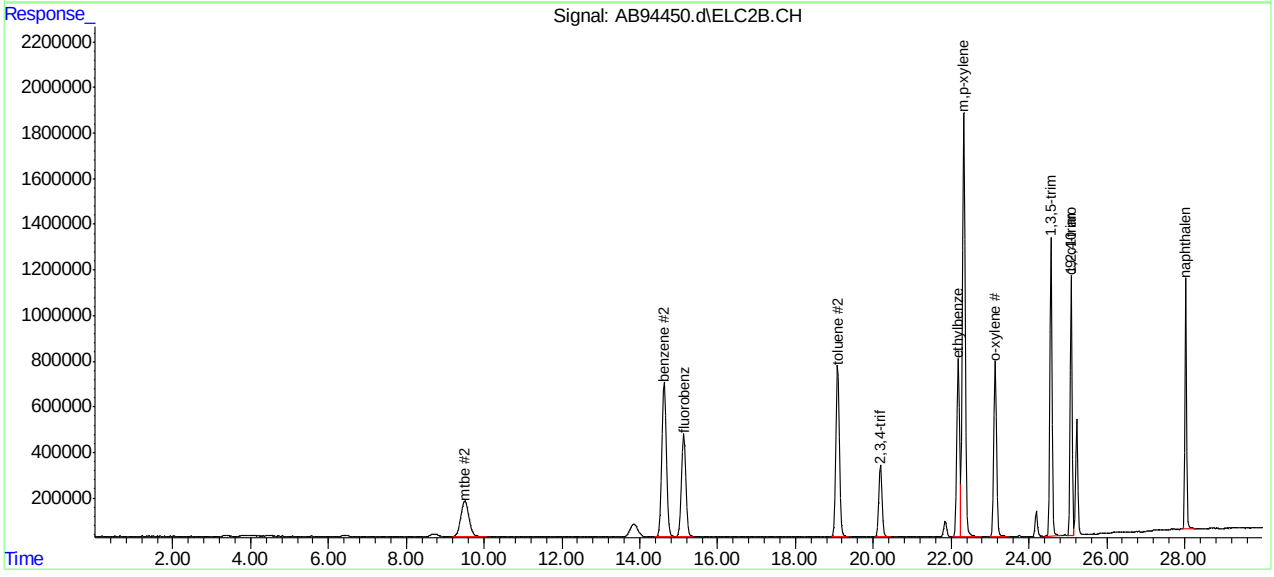
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH Signal #2: ELC2B.CH
Acq On : 23-Jun-16, 00:34:25
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 25 (Sig #1); 0 (Sig #2) Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:18:03 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation 6890 Scale Mode: Large solvent peaks clipped

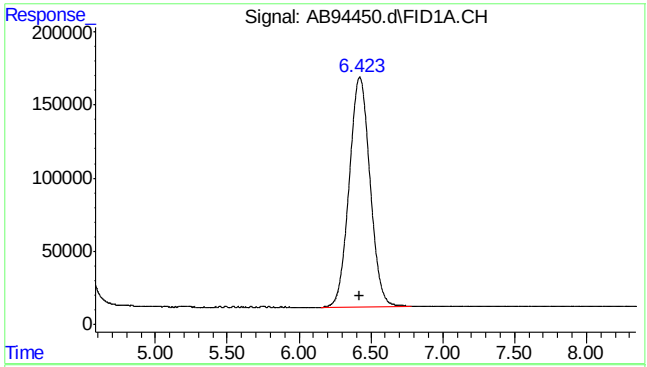
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



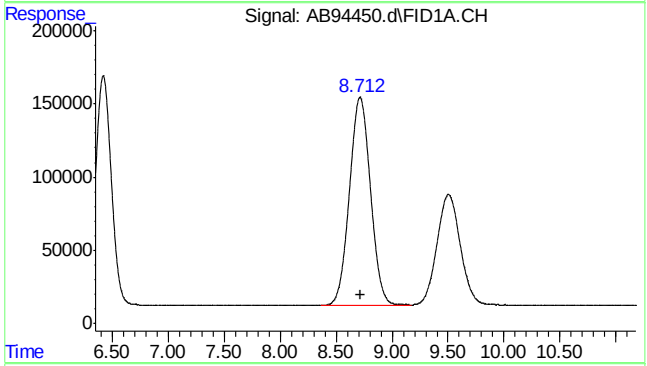



SGS ACCUTEST MC46487



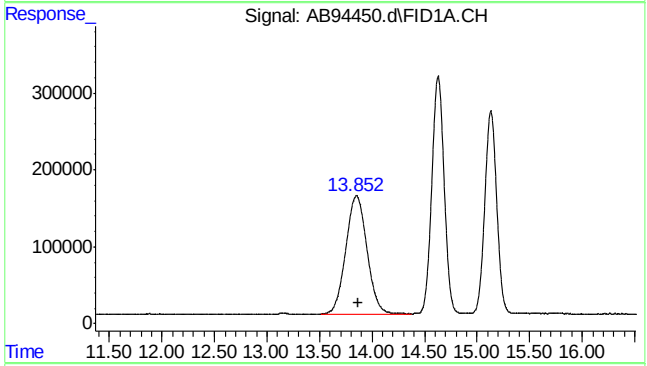

#1 rt5.5-7

R.T.: 6.420 min
Delta R.T.: 0.000 min
Response: 15864119
Conc: 39.51 ppb m



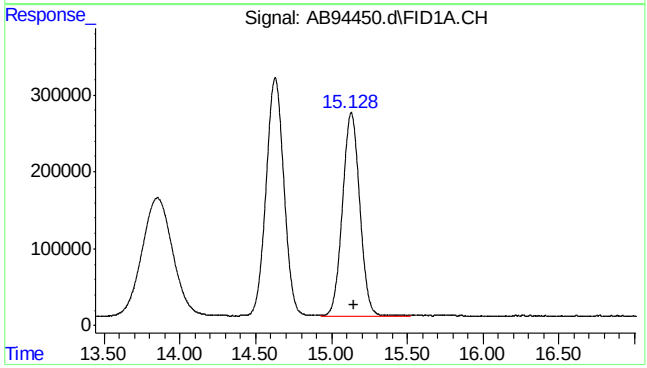

#2 rt7/10

R.T.: 8.720 min
Delta R.T.: 0.000 min
Response: 18698779
Conc: 46.57 ppb m




#3 rt10/13

R.T.: 13.870 min
Delta R.T.: 0.000 min
Response: 21599721
Conc: 53.80 ppb m




#4 fluorobenzene

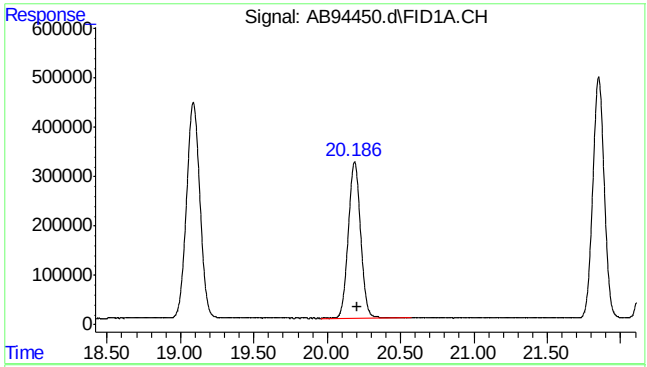
R.T.: 15.130 min
Delta R.T.: -0.021 min
Response: 20940158
Conc: 47.58 ppb

7.5.12

7

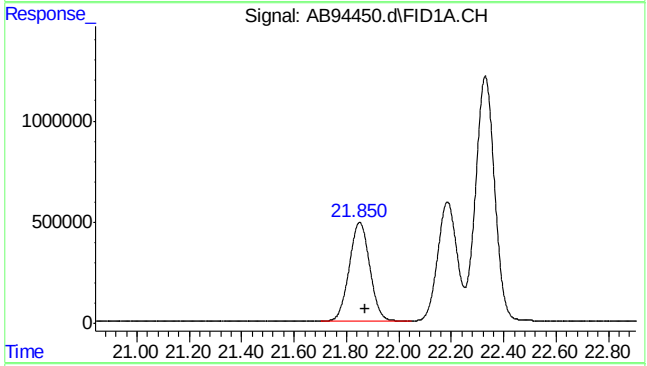


SGS ACCUTEST MC46487



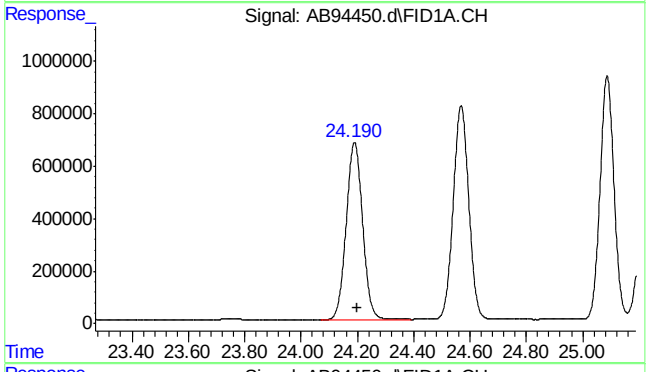

#6 2,3,4-trifluorotoluene

R.T.: 20.186 min
Delta R.T.: -0.020 min
Response: 18540196
Conc: 45.23 ppb



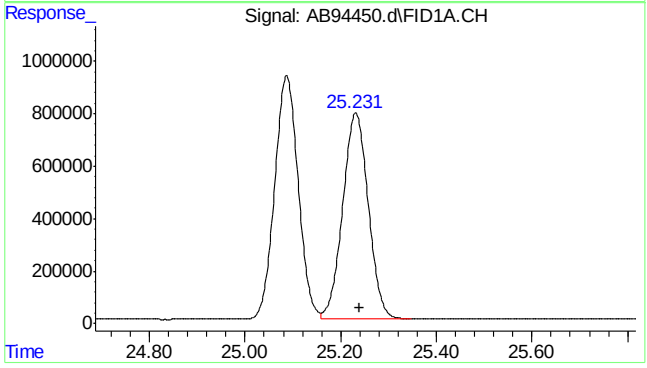

#8 rt20/25

R.T.: 21.870 min
Delta R.T.: 0.000 min
Response: 26518892
Conc: 42.33 ppb m




#10 decane

R.T.: 24.200 min
Delta R.T.: 0.000 min
Response: 27327749
Conc: 43.62 ppb




#11 butylcyclohexane

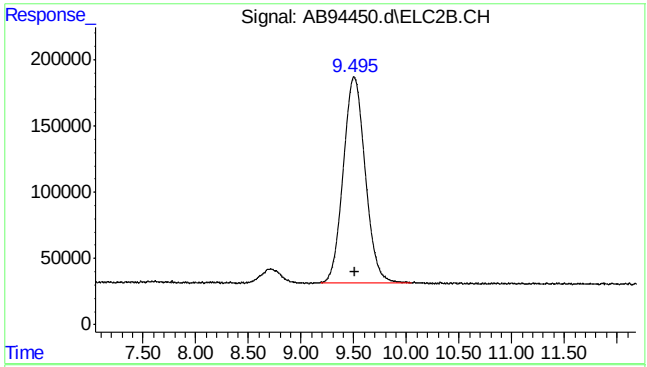
R.T.: 25.240 min
Delta R.T.: 0.000 min
Response: 29289729
Conc: 46.75 ppb m

7.5.12

7

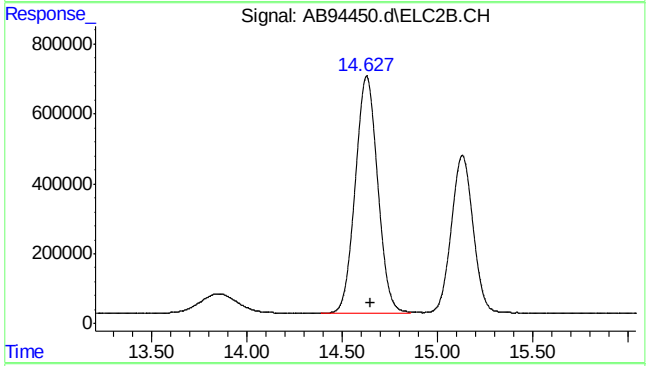


SGS ACCUTEST MC46487



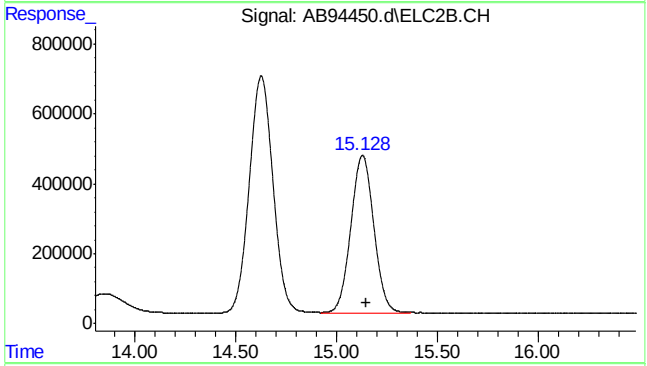

#14 mtbe #2

R.T.: 9.495 min
Delta R.T.: -0.016 min
Response: 22685846
Conc: 44.97 ppb m



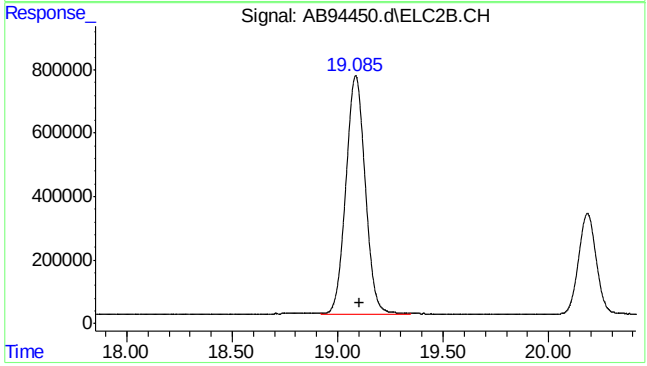

#15 benzene #2

R.T.: 14.626 min
Delta R.T.: -0.020 min
Response: 55654754
Conc: 42.76 ppb




#16 fluorobenzene #2

R.T.: 15.128 min
Delta R.T.: -0.020 min
Response: 36138099
Conc: 42.91 ppb



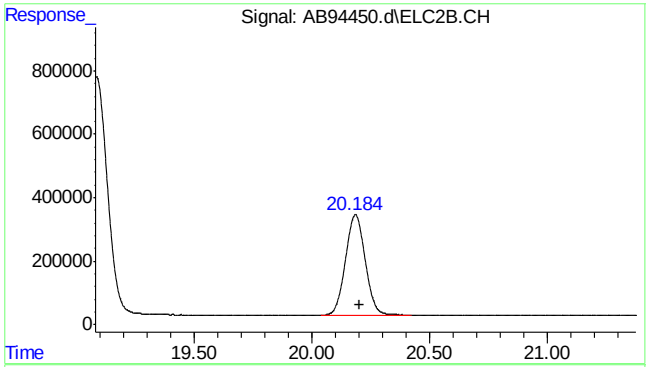

#17 toluene #2

R.T.: 19.085 min
Delta R.T.: -0.021 min
Response: 48064012
Conc: 42.04 ppb



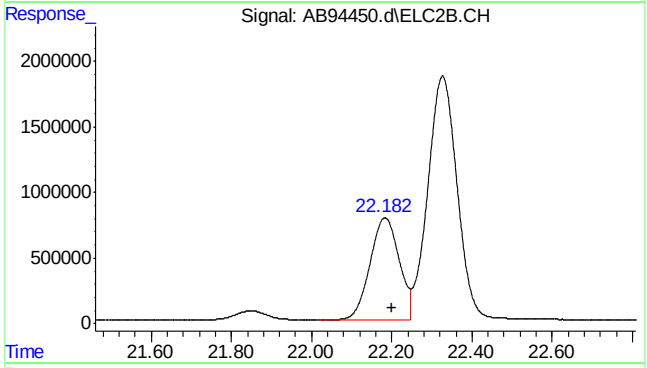


SGS ACCUTEST MC46487



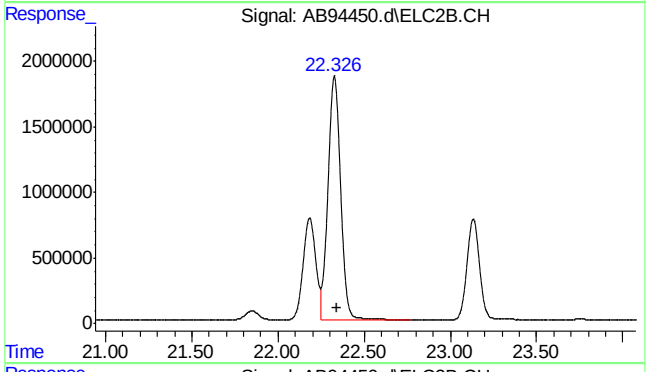

#18 2,3,4-trifluorotoluene #2

R.T.: 20.184 min
Delta R.T.: -0.019 min
Response: 18657747
Conc: 39.96 ppb



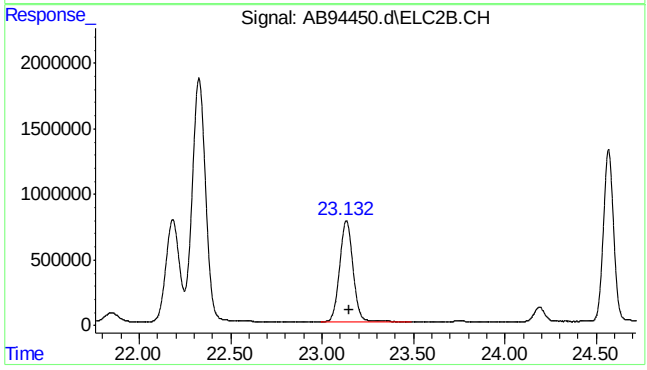

#19 ethylbenzene #2

R.T.: 22.183 min
Delta R.T.: -0.018 min
Response: 39447660
Conc: 42.61 ppb




#20 m,p-xylene #2

R.T.: 22.327 min
Delta R.T.: -0.017 min
Response: 95063617
Conc: 89.62 ppb



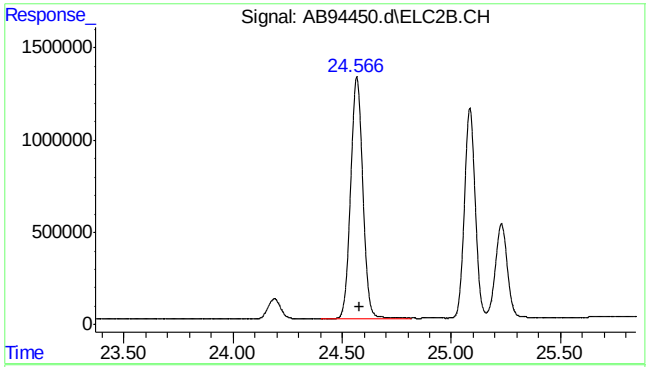

#21 o-xylene #2

R.T.: 23.133 min
Delta R.T.: -0.017 min
Response: 39195995
Conc: 41.96 ppb



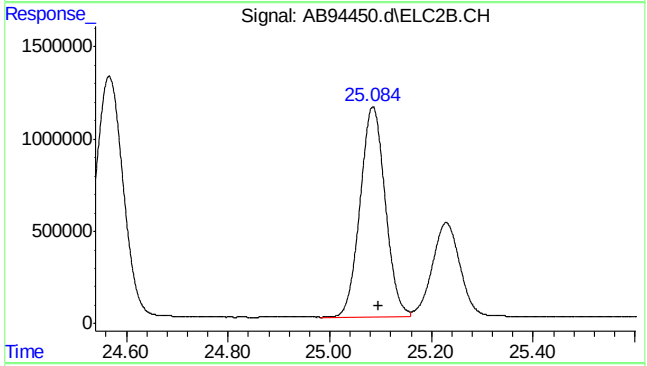


SGS ACCUTEST MC46487



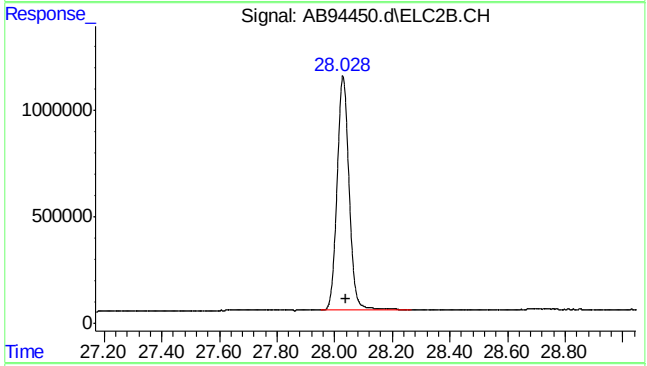

#22 1,3,5-trimethylbenzene #2

R.T.: 24.566 min
Delta R.T.: -0.013 min
Response: 50714601
Conc: 38.82 ppb



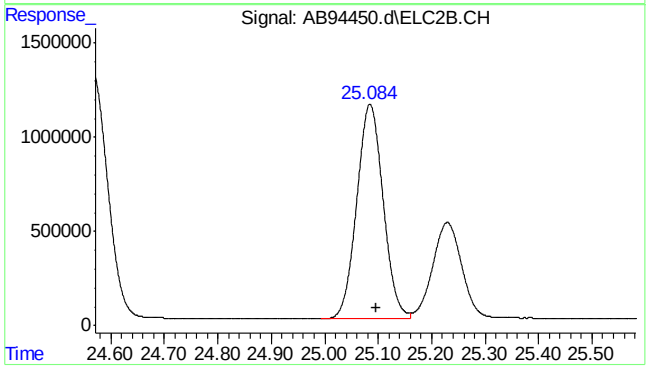

#23 1,2,4-trimethylbenzene #2

R.T.: 25.085 min
Delta R.T.: -0.011 min
Response: 39179491
Conc: 40.94 ppb




#24 naphthalene #2

R.T.: 28.028 min
Delta R.T.: -0.010 min
Response: 31865006
Conc: 44.08 ppb m




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

R.T.: 25.096 min
Delta R.T.: 0.000 min
Response: 39234075
Conc: 40.95 ppb m



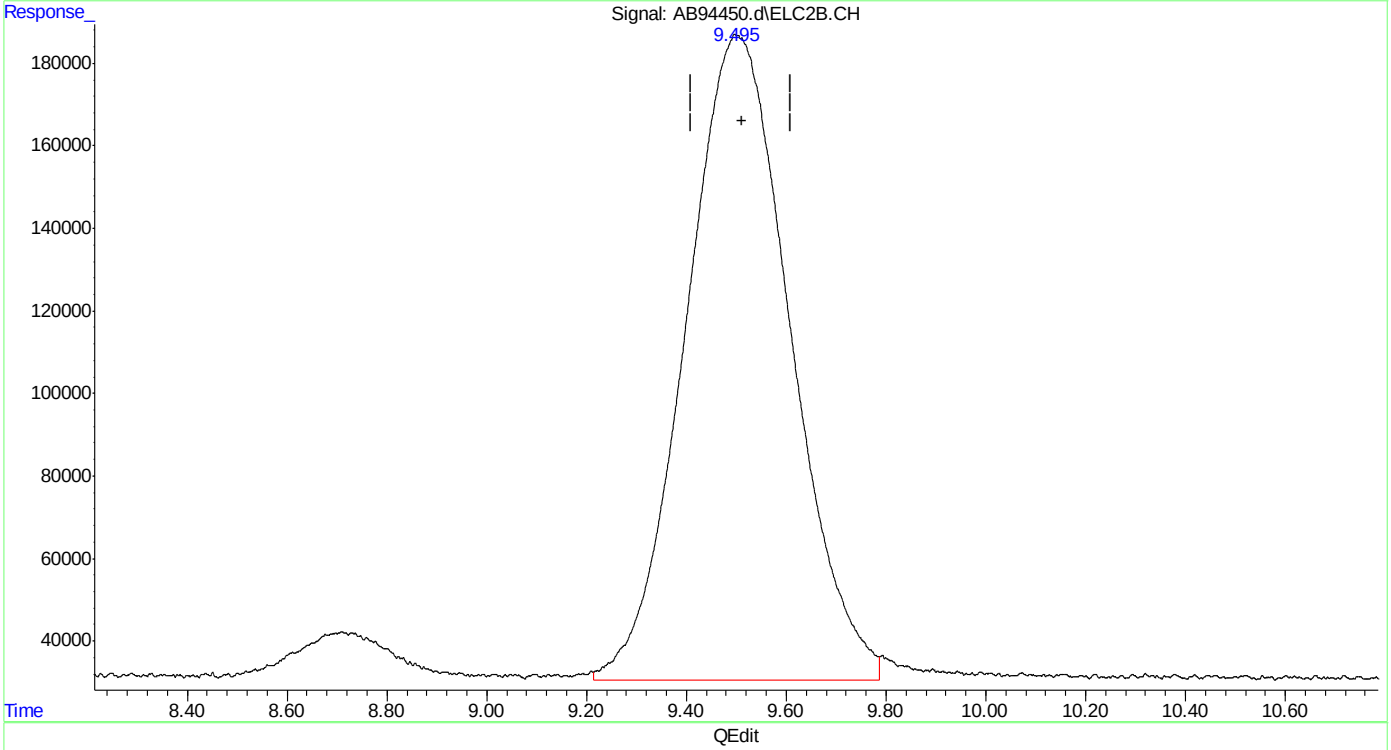
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 23-Jun-16, 00:34:25
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 25 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:13:35 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.496min 44.991 ppb
response 22696026

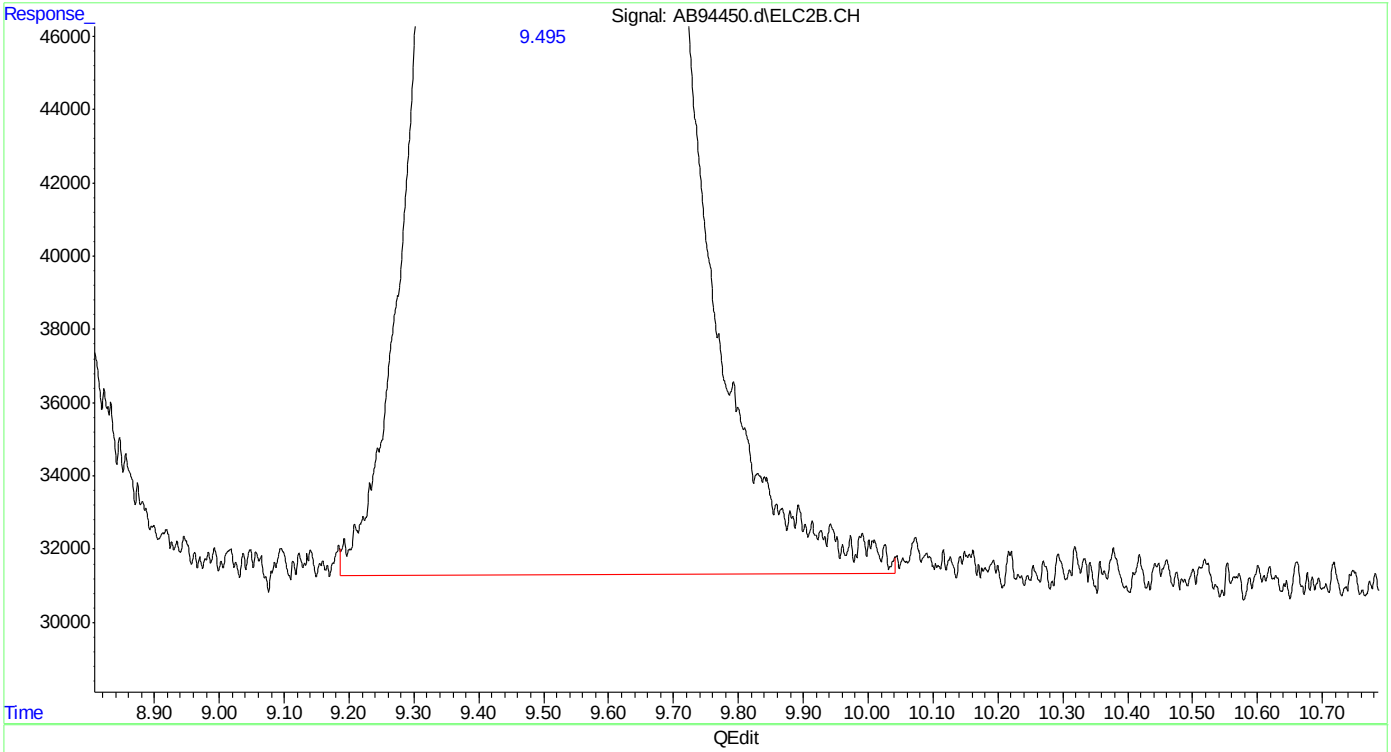
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 06:17:38 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 23-Jun-16, 00:34:25
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 25 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:13:35 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(14) mtbe #2
9.495min 44.971 ppb m
response 22685846

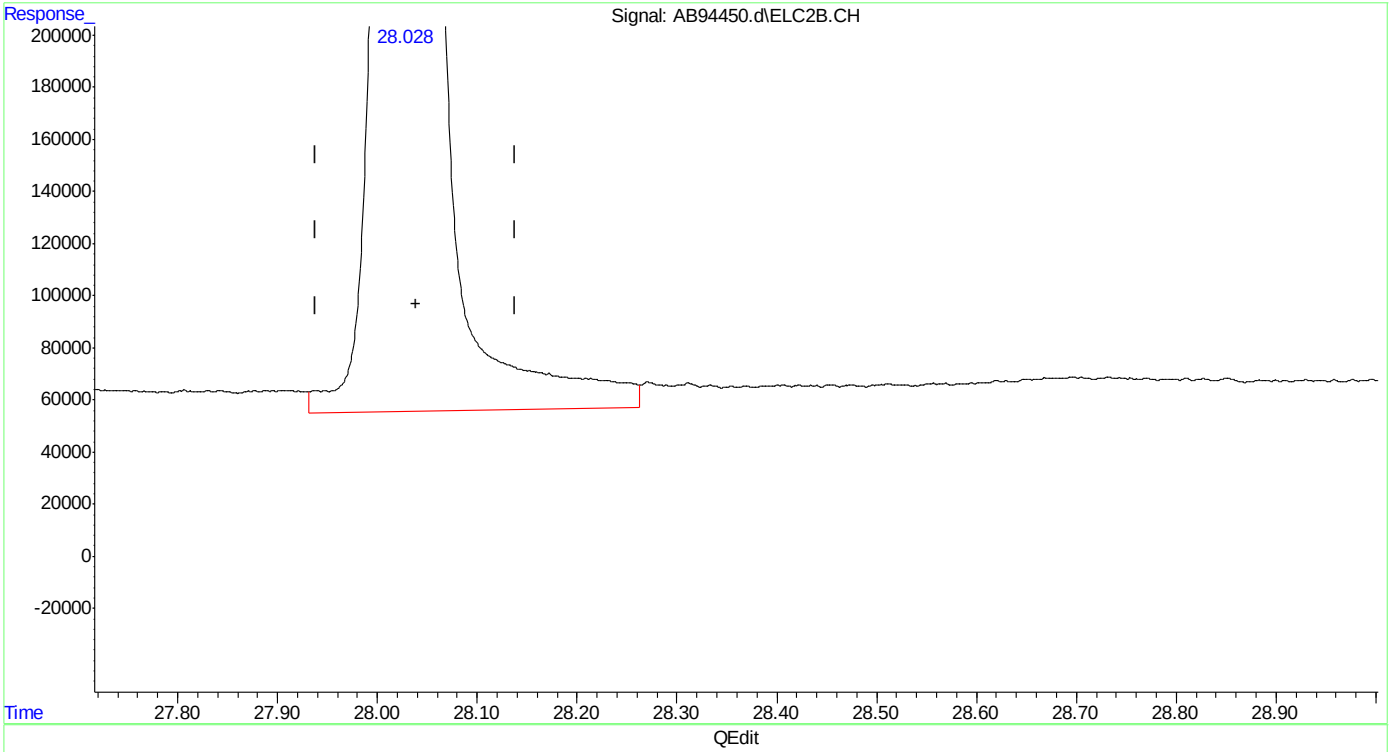
(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 06:17:43 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On    : 23-Jun-16, 00:34:25
Operator  : tonyf
Sample    : cc5058-50
Misc      : gc26389,gab5203,,,,5,1
ALS Vial  : 25 (Sig #1); 0 (Sig #2)   Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:13:35 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title  : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation   6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2

28.029min 46.270 ppb

response 33449135

(+) = Expected Retention Time

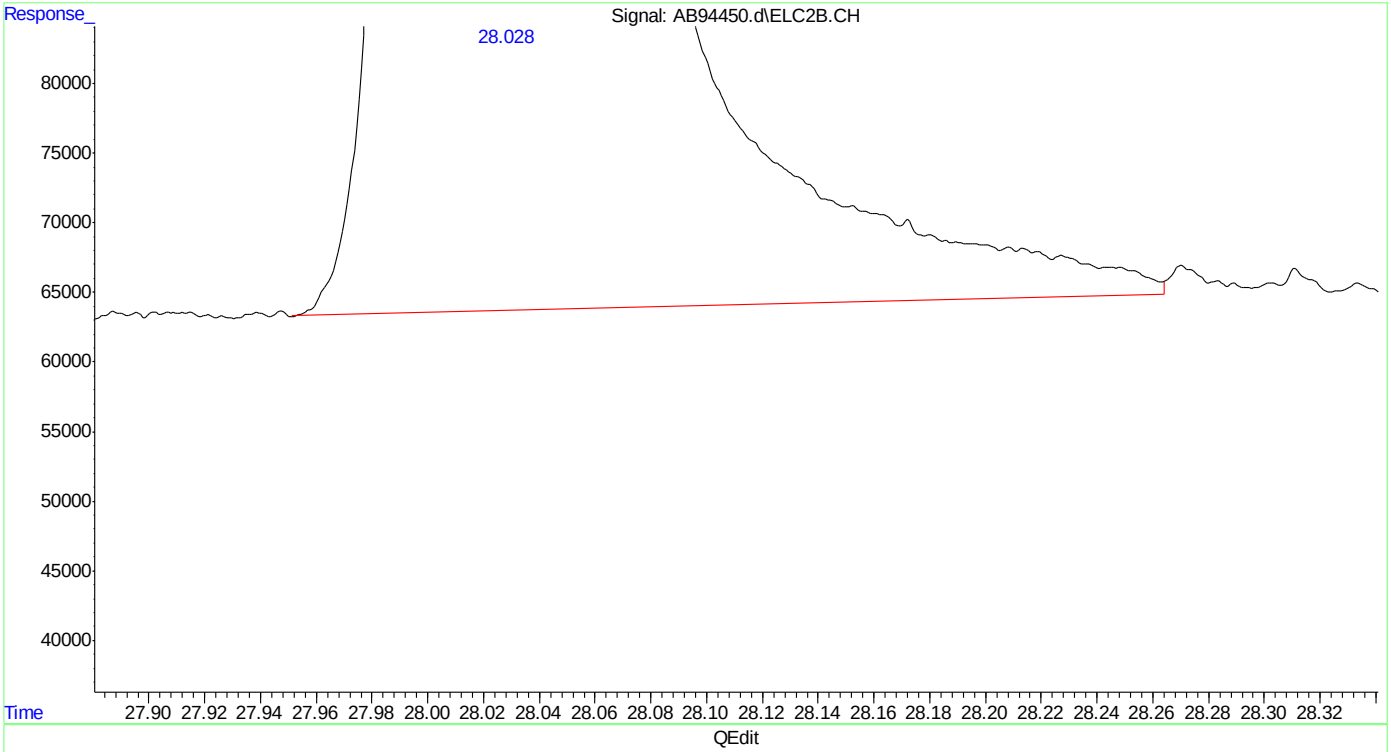
ab160622vph.M Thu Jun 23 06:17:52 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\data\ab160622\
Data File : AB94450.d
Signal(s) : Signal #1: FID1A.CH  Signal #2: ELC2B.CH
Acq On : 23-Jun-16, 00:34:25
Operator : tonyf
Sample : cc5058-50
Misc : gc26389,gab5203,,,,5,1
ALS Vial : 25 (Sig #1); 0 (Sig #2)  Sample Multiplier: 1

Integration File signal 1: EVENTS.E
Integration File signal 2: EVENTS2.E
Quant Time: Jun 23 06:13:35 2016
Quant Method : C:\msdchem\1\methods\ab160622vph.M
Quant Title : vph
QLast Update : Wed Mar 09 08:31:46 2016
Response via : Initial Calibration
Integrator: ChemStation  6890 Scale Mode: Large solvent peaks clipped

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




(24) naphthalene #2
28.028min 44.079 ppb m
response 31865006

(+) = Expected Retention Time
ab160622vph.M Thu Jun 23 06:17:59 2016

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

# VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 1-12-2016 Analyst Signature: HNN

Standards Data

| Lot # | Description | Conc |
|---|---|---|
| VMAVPH | GC25816 gab5058 | |
| | | |
| V8021bTXMN | gc25818 gab5059 (A) | |
| | | |
| V8015gro | gc25819 gab5060 (B) | |

Standards Data

| Lot # | Description | Conc |
|---|---|---|
| gv162253 | VPH STD | 50ug/mL 2/11/16 |
| gv162254 | ↓ | 5ug/mL |
| gv162255 | ↓ | 1ug/mL |
| gv162256 | VPH 2nd source | 50ug/mL |
| gv162249 | CC/LCS P2 | 250ug/mL 2/11/16 |

Column: MTX502-2
Method: ABVPH1
GC Seq. File: AB160112-S
Method Files: AB160112VPH MASTER
CC 5058-.50
AS Seq. File: N/A
Seq. Verification: HNN

Date of ICAL: 1-12-2016 ICAL Verified:

| Data File | Sample ID | Bot No. | Work Group | Test | ALS # | *MTX | Samp Amt. | % SOL | Dil. Fact. | pH | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| AB92584 | ic5058-1000 | N/A | gc25816 | VMAVPH | 1 | W | 100ML gv162253 | | 5mL DI | | 50ug/mL STD |
| 85 | -500 | ↓ | ↓ | ↓ | 2 | ↓ | 50ML | ↓ | ↓ | | ↓ |
| 86 | -250 | | | | 3 | | 25ML | | | | |
| 87 | -100 | | | | 4 | | 10ML | | | | |
| 88 | ic5058-50 | | | | 5 | | 5ML | ↓ | ↓ | | ↓ |
| 89 | ic5058-10 | | | | 6 | | 10ML gv162254 | | 5mL DI | | 5ug/mL STD |
| 90 | -5 | | | | 7 | | 5ML | ↓ | ↓ | | ↓ |
| 91 | -2 | | | | 8 | | 10ML gv162255 | | 5mL DI | | 1ug/mL STD |
| 92 | -1 | | | | 9 | | 5ML | ↓ | ↓ | | ↓ |
| 93 | icv5058-50 | | | | 10 | | 5ML gv162256 | | 5mL DI | | VPH 2nd source 50ug/L STD |
| 94 | ccs5058-50 | ↓ | ↓ | ↓ | 11 | ↓ | 1mL of gv162249 | N/A | N/A | N/A | |

1/12/2016 HNN

GC001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: _____ Review _____

MTX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil – method SW846 5035 used for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, mls for water.







SGS ACCUTEST MC46487

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

Operator
Date Acquired
Method Reference: ABI@OIIZVPHMASTER.M
Acq. Method file

VPH INITIAL CALIBRATION

AREA RESPONSE

| FID Name | AB92584.d 1000 | AB92585.d 500 | AB92586.d 250.00 | AB92587.d 100.00 | AB92588.d 50.00 | AB92589.d 10.00 | AB92590.d 5.00 | AB92591.d 2 | AB92592.d 1.00 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| pentane | 331590120 | 167372218 | 83244108 | 33420619 | 17341856 | 3766236 | 1948123 | 782177 | 423417 | | | |
| 2-methylpentane | 391421055 | 194354385 | 96840946 | 38500243 | 19931281 | 4308812 | 2254634 | 895663 | 474249 | | | |
| iso-octane | 251983203 | 155550894 | 90504546 | 40723060 | 22107974 | 4807629 | 2659001 | 1010297 | 532157 | | | |
| Total Area | 974995078 | 517377297 | 270589598 | 112643922 | 59381111 | 12882677 | 6862097 | 2688137 | 1429823 | average CF | std dev | %rsd |
| Total Concentration ppb | 3000 | 1500 | 750 | 300 | 150 | 30 | 15 | 6 | 3 | 401509 | 53780 | 13.39 |
| Calibration Response Factor | 324998 | 344918 | 360786 | 375480 | 395374 | 429423 | 457473 | 448023 | 476608 | | | |
| nonane | 591293979 | 289348466 | 144023290 | 55977594 | 28560611 | 6317132 | 3202966 | 1295530 | 636900 | | | |
| decane | 587741810 | 295400585 | 148414165 | 57632960 | 29380393 | 6389567 | 3274046 | 1363143 | 652274 | | | |
| butylcyclohexane | 562827500 | 299471611 | 153083117 | 60198202 | 30974569 | 6902750 | 3520100 | 1487308 | 764280 | | | |
| Total Area | 1741863288 | 884220661 | 445520562 | 173808745 | 88915573 | 19609449 | 9997101 | 4145981 | 2073455 | avg CF | std dev | %rsd |
| Total Concentration ppb | 3000 | 1500 | 750 | 300 | 150 | 30 | 15 | 6 | 3 | 626504 | 48172 | 7.69 |
| Calibration Response Factor | 580621 | 589480 | 594027 | 579362 | 592770 | 653648 | 666473 | 690997 | 691152 | | | |

| | Area | 1000 ppb | 50ppb |
|---|---|---|---|
| C5 - C8 | | 401509187 | 20075459 |
| C9 - C12 | | 626503567 | 31325178 |

created 8/29/05 aef

Page 1 of 1

C:\msdchem\custrpt\VPHCAL9.CRT

| | |
|---|---|
| Data File Name | AB92593.d |
| Operator | haleyn |
| Date Acquired | #VALUE! |
| Sample Name | icv5058-50 |
| Sample Multiplier | 1 |

| Name FID | Target Response | | Continuing CF | Initial CF | Percent Difference | Out of Criteria |
|---|---|---|---|---|---|---|
| rt5.5-7 | 15547337 | C5 - C8 area | CF | CF | | |
| rt7/10 | 17999511 | 54467022 | 363113 | 401509 | 9.56 | |
| rt10/13 | 20920173 | | | | | |
| rt20/25 | 26744531 | | | | | |
| decane | 27320621 | C9-C12 area | | | | |
| butylcyclohexane | 28763512 | 82828664 | 552191 | 626504 | 11.86 | |

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

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

| | |
|---|---|
| Data File Name | AB92594.d |
| Operator | haleyn |
| Date Acquired | #VALUE! |
| Sample Name | cc5058-50 |
| Sample Multiplier | 1 |

| Name FID | Target Response | | Continuing CF | Initial CF | Percent Difference | Out of Criteria |
|---|---|---|---|---|---|---|
| rt5.5-7 | 16532359 | C5 - C8 area | CF | CF | | |
| rt7/10 | 19269803 | 57832334 | 385549 | 401509 | 3.98 | |
| rt10/13 | 22030172 | | | | | |
| rt20/25 | 27274050 | | | | | |
| decane | 27119315 | C9-C12 area | | | | |
| butylcyclohexane | 29265246 | 83658611 | 557724 | 626504 | 10.98 | |

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 1-12-2016 HNN

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




SGS ACCUTEST MC46487

ACCUTEST LABORATORIES

Instrument: GC 21 (AB)

# VOLATILE ORGANICS BY GC ANALYSIS LOG

Date: 6/22/16 Analyst Signature: [illegible]

Standards Data

| Lot # | Description | Conc |
|---|---|---|
| Vmanph Mix | qc26389 gab | 5203 |
| | | |
| | | |
| | | |
| | | |

Standards Data

| Lot # | Description | Conc |
|---|---|---|
| qv16433 | cc/bgb 250ug/ml | 7/19/16 8/22/16 |
| qv16423 | Sum ↓ | 8/22/16 6/22/16 |
| | | 7/13/16 |
| | | |
| | | |

Column: mtx 502.2
Method: AB VPH1
GC Seq. File: AB160622a.5
Method Files: AB160622a VPH CC5058-50

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

Date of ICAL: 1-12-16 ICAL Verified: Seq. Verification: 7-24, 25-25 [illegible]

| Data File | Sample ID | Bot No. | Work Group | Test | ALS # | *MTX | Samp Amt. | % SOL | Dil. Fact. | pH | Comments |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Ab94,425 | Condal 50 | N/A | qc26389 | Vmanph | 1 | W | 1ml qv16433 | N/A | N/A | N/A | |
| 26 | mb | ↓ | ↓ | ↓ | 2 | ↓ | 1ml qv16423 | ↓ | ↓ | ↓ | |
| 27 | bgb | | | | 3 | | 1ml qv16433 | | | | |
| 28 | bsd | | | | 4 | | ↓ | | | | |
| 29 | mc46489-2 | 1 | | | 5 | | 5ml | | | <2 | |
| 30 | -2ms | 1 | | | 5 | | +1ml qv16433 | ↓ | | ↓ | |
| 31 | -2msd | 2 | | | 6 | | ↓ | | | | |
| 32 | -6 | 1 | | | 7 | | 5ml of 25ml | MTV | 1:2 | <2 | |
| 33 | -5 | 1 | | | 8 | | 5ml | | N/A | <2 | |
| 34 | -7 | 1 | | | 9 | | | | | | |
| 35 | -4 | 1 | | | 10 | | | | | | |
| 36 | -3 | 1 | | | 11 | | | | | | |
| 37 | -10 | 1 | | | 12 | | | | | | |
| 38 | -11 | 1 | | | 13 | | | | | | |
| 39 | mc46487-1 | 4 | | | 14 | | | | | | |
| 40 | -2 | 4 | | | 15 | | | | | | |
| 41 | -3 | 1 | | | 16 | | | | | | |
| 42 | -4 | 4 | | | 17 | | | | | | |
| 43 | -5 | 4 | | | 18 | | | | | | |
| 44 | -6 | 4 | | | 19 | | | | | | |
| 45 | -7 | 4 | | | 20 | | | | | | |
| 46 | mc46489-1 | 1 | | | 21 | | | | | | |
| 47 | -8 | 1 | | | 22 | | | | | | |
| 48 | -9 | 1 | | | 23 | | | | | | |
| 49 | -12 | 1 | | | 24 | | | | | | |
| 50 | Condal 50 | N/A | | | 25 | | 1ml qv16433 | | | N/A | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | 6/22/16 |

:C001-05 Date: 12/02/08 Dilution Solvent: _____ Lot Number: 216315 Review _____

TX = Matrix: Designate W for water, S for soil, O for oil. *Note: If sample matrix is soil – method SW846 5035 sed for preparation SW846 5030 for water/soil P&T. Sample amount is reported in grams (wet) for soil and oil, for water.







SGS ACCUTEST MC46487

| | |
|---|---|
| Data File Name | AB94425.d |
| Operator | tonyf |
| Date Acquired | #VALUE! |
| Sample Name | **cc5058-50** |
| Sample Multiplier | 1 |

| Name FID | Target Response | | Continuing CF | Initial CF | Percent Difference | Out of Criteria |
|---|---|---|---|---|---|---|
| **rt5.5-7** | 16229843 | C5 - C8 area | CF | CF | | |
| **rt7/10** | 18912278 | 56397670 | 375984 | 401509 | **6.36** | |
| **rt10/13** | 21255550 | | | | | |
| **rt20/25** | 27109958 | | | | | |
| **decane** | 28137070 | C9-C12 area | | | | |
| **butylcyclohexane** | 29842470 | 85089498 | 567263 | 626504 | **9.46** | |

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 6/22/16 z

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

| | |
|---|---|
| Data File Name | AB94450.d |
| Operator | tonyf |
| Date Acquired | #VALUE! |
| Sample Name | **cc5058-50** |
| Sample Multiplier | 1 |

| Name FID | Target Response | | Continuing CF | Initial CF | Percent Difference | Out of Criteria |
|---|---|---|---|---|---|---|
| **rt5.5-7** | 15864119 | C5 - C8 area | CF | CF | | |
| **rt7/10** | 18698779 | 56162620 | 374417 | 401509 | **6.75** | |
| **rt10/13** | 21599721 | | | | | |
| **rt20/25** | 26518892 | | | | | |
| **decane** | 27327749 | C9-C12 area | | | | |
| **butylcyclohexane** | 29289729 | 83136370 | 554242 | 626504 | **11.53** | |

jfh 04/23/02
edited for decane butylcylclohexane 02/18/08 andrip
edited for 50ppb ck 072104 aa
Analyst/date: 6/23/16

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

# GC Semi-volatiles

## QC Data Summaries

Includes the following where applicable:

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

# Method Blank Summary



**Job Number:** MC46487
**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 |
|---|---|---|---|---|---|---|---|
| OP47926-MB | DE14750.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |

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

MC46487-1, MC46487-2, MC46487-4, MC46487-5, MC46487-6, MC46487-7

| CAS No. | Compound | Result | RL | MDL | Units | Q |
|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 32.2 | 100 | 29 | ug/l | J |
| | C9-C18 Aliphatics | 23.4 | 100 | 17 | ug/l | J |
| | C19-C36 Aliphatics | 31.5 | 100 | 27 | ug/l | J |
| | C11-C22 Aromatics | 32.2 | 100 | 29 | ug/l | J |

| CAS No. | Surrogate Recoveries | | Limits |
|---|---|---|---|
| 84-15-1 | o-Terphenyl | 63% | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 75% | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 72% | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 81% | 40-140% |

# Blank Spike/Blank Spike Duplicate Summary



**Job Number:** MC46487
**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 |
|---|---|---|---|---|---|---|---|
| OP47926-BS | DE14748.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |
| OP47926-BSD | DE14749.D | 1 | 06/28/16 | TA | 06/21/16 | OP47926 | GDE819 |

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

MC46487-1, MC46487-2, MC46487-4, MC46487-5, MC46487-6, MC46487-7

| CAS No. | Compound | Spike ug/l | BSP ug/l | BSP % | BSD ug/l | BSD % | RPD | Limits Rec/RPD |
|---|---|---|---|---|---|---|---|---|
| | C11-C22 Aromatics (Unadj.) | 800 | 675 | 84 | 647 | 81 | 4 | 40-140/25 |
| | C9-C18 Aliphatics | 300 | 209 | 70 | 198 | 66 | 5 | 40-140/25 |
| | C19-C36 Aliphatics | 400 | 362 | 91 | 350 | 88 | 3 | 40-140/25 |

| CAS No. | Surrogate Recoveries | BSP | BSD | Limits |
|---|---|---|---|---|
| 84-15-1 | o-Terphenyl | 72% | 69% | 40-140% |
| 321-60-8 | 2-Fluorobiphenyl | 80% | 76% | 40-140% |
| 3386-33-2 | 1-Chlorooctadecane | 76% | 73% | 40-140% |
| 580-13-2 | 2-Bromonaphthalene | 82% | 77% | 40-140% |

| Sample | Compound | Col #1 | Col #2 | Breakthrough | Limit |
|---|---|---|---|---|---|
| OP47926-BS | 2-Methylnaphthalene | 28.2 | ND | 0.0% | 5.0 |
| OP47926-BS | Naphthalene | 27.0 | ND | 0.0% | 5.0 |
| OP47926-BSD | 2-Methylnaphthalene | 26.9 | ND | 0.0% | 5.0 |
| OP47926-BSD | Naphthalene | 25.7 | ND | 0.0% | 5.0 |

* = Outside of Control Limits.

# Semivolatile Surrogate Recovery Summary



**Job Number:** MC46487
**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] |
|---|---|---|---|---|---|
| MC46487-1 | DE14751.D | 61 | 80 | 64 | 85 |
| MC46487-2 | DE14752.D | 63 | 80 | 67 | 89 |
| MC46487-4 | DE14753.D | 44 | 70 | 45 | 77 |
| MC46487-5 | DE14754.D | 57 | 80 | 56 | 88 |
| MC46487-6 | DE14755.D | 62 | 76 | 69 | 83 |
| MC46487-7 | DE14756.D | 66 | 80 | 67 | 87 |
| OP47926-BS | DE14748.D | 72 | 80 | 76 | 82 |
| OP47926-BSD | DE14749.D | 69 | 76 | 73 | 77 |
| OP47926-MB | DE14750.D | 63 | 75 | 72 | 81 |

| 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:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

| | | | |
|---|---|---|---|
| **Check Std:** | GDE819-CC815 | **Injection Date:** | 06/28/16 |
| **Lab File ID:** | DE14747.D | **Injection Time:** | 16:13 |
| **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 | 11.21 | 7.22 |

| Lab Sample ID | Lab File ID | Date Analyzed | Time Analyzed | S1 [a] RT | S2 [a] RT | S3 [b] RT | S4 [a] RT |
|---|---|---|---|---|---|---|---|
| OP47926-BS | DE14748.D | 06/28/16 | 16:41 | 9.75 | 6.50 | 11.21 | 7.22 |
| OP47926-BSD | DE14749.D | 06/28/16 | 17:09 | 9.76 | 6.50 | 11.21 | 7.22 |
| OP47926-MB | DE14750.D | 06/28/16 | 17:36 | 9.76 | 6.50 | 11.21 | 7.22 |
| MC46487-1 | DE14751.D | 06/28/16 | 18:04 | 9.76 | 6.50 | 11.21 | 7.22 |
| MC46487-2 | DE14752.D | 06/28/16 | 18:32 | 9.76 | 6.50 | 11.21 | 7.22 |
| MC46487-4 | DE14753.D | 06/28/16 | 18:59 | 9.75 | 6.50 | 11.21 | 7.22 |
| MC46487-5 | DE14754.D | 06/28/16 | 19:27 | 9.75 | 6.50 | 11.21 | 7.22 |
| MC46487-6 | DE14755.D | 06/28/16 | 19:55 | 9.75 | 6.50 | 11.21 | 7.22 |
| MC46487-7 | DE14756.D | 06/28/16 | 20:23 | 9.75 | 6.50 | 11.21 | 7.22 |
| GDE819-ECC815 | DE14757.D | 06/28/16 | 20:50 | 9.76 | 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:** MC46487
**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:** MC46487
**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:** MC46487
**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:** MC46487 **Sample:** GDE815-ICV815
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14673.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 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:** MC46487 **Sample:** GDE819-CC815
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14747.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   4:13 pm
Operator  : thomasa
Sample    : cc815-50,gde819
Misc      : op47862,gde819,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:43:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 128.385 E3 | -2.3 | 97 | 0.00 |
| 3 | | 2-methylnaphthalene | 126.144 | 127.729 E3 | -1.3 | 99 | 0.00 |
| 4 | s | 2-fluorobiphenyl | 114.477 | 114.821 E3 | -0.3 | 97 | 0.00 |
| 5 | | acenaphthylene | 126.525 | 125.492 E3 | 0.8 | 97 | 0.00 |
| 6 | s | 2-bromonaphthalene | 71.704 | 76.019 E3 | -6.0 | 95 | 0.00 |
| 7 | | acenaphthene | 139.287 | 129.986 E3 | 6.7 | 95 | 0.00 |
| 8 | | fluorene | 128.466 | 127.358 E3 | 0.9 | 96 | 0.00 |
| 9 | | phenanthrene | 124.916 | 126.127 E3 | -1.0 | 95 | 0.00 |
| 10 | | anthracene | 133.036 | 123.995 E3 | 6.8 | 99 | 0.00 |
| 11 | s | o-terphenyl | 132.308 | 127.742 E3 | 3.5 | 96 | 0.00 |
| 12 | | fluoranthene | 128.264 | 125.125 E3 | 2.4 | 96 | 0.00 |
| 13 | | pyrene | 131.341 | 128.117 E3 | 2.5 | 96 | 0.00 |
| 14 | | benzo(a)anthracene | 121.482 | 120.541 E3 | 0.8 | 96 | 0.00 |
| 15 | | chrysene | 127.650 | 121.378 E3 | 4.9 | 96 | 0.00 |
| 16 | | benzo(B)fluoranthene | 118.397 | 131.170 E3 | -10.8 | 105 | 0.00 |
| 17 | | benzo(k)fluoranthene | 128.030 | 113.305 E3 | 11.5 | 90 | 0.00 |
| 18 | | benzo(a)pyrene | 117.959 | 116.430 E3 | 1.3 | 98 | 0.00 |
| 19 | | indeno(1,2,3-cd)pyrene | 117.046 | 118.396 E3 | -1.2 | 99 | 0.00 |
| 20 | | dibenzo(ah)anthracene | 113.307 | 114.820 E3 | -1.3 | 99 | 0.00 |
| 21 | | benzo(ghi)perylene | 113.475 | 114.272 E3 | -0.7 | 99 | 0.00 |
| Signal #2 | | | | | | | |
| 25 | h | c-9 | 84.306 | 81.136 E3 | 3.8 | 0# | 0.00 |
| 26 | h | c-10 | 84.306 | 81.986 E3 | 2.8 | 0# | 0.00 |
| 27 | | naphthalene #2 | 90.911 | 87.289 E3 | 4.0 | 95 | 0.00 |
| 28 | | c-12 | 84.306 | 81.189 E3 | 3.7 | 0# | 0.00 |
| 29 | | 2-methylnaphthalene #2 | 89.937 | 86.826 E3 | 3.5 | 95 | 0.00 |
| 30 | | c-14 | 84.306 | 80.474 E3 | 4.5 | 0# | 0.00 |
| 31 | | c-16 | 84.306 | 79.721 E3 | 5.4 | 0# | 0.00 |

# Continuing Calibration Summary

**Job Number:** MC46487 **Sample:** GDE819-CC815
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14747.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 32 | | c-18 | 84.306 | 80.056 | E3 | 5.0 | 0# | 0.00 |
| 33 | | c-19 | 77.824 | 79.658 | E3 | -2.4 | 0# | 0.00 |
| 34 | | c-20 | 77.824 | 78.312 | E3 | -0.6 | 0# | 0.00 |
| 35 | s | 1-chlorooctadecane | 65.153 | 63.206 | E3 | 3.0 | 97 | 0.00 |
| 36 | | c-22 | 77.824 | 77.895 | E3 | -0.1 | 0# | 0.00 |
| 37 | | c-24 | 77.824 | 72.724 | E3 | 6.6 | 0# | 0.00 |
| 38 | | c-26 | 77.824 | 77.807 | E3 | 0.0 | 0# | 0.00 |
| 39 | | c-28 | 77.824 | 75.499 | E3 | 3.0 | 0# | 0.00 |
| 40 | h | c-30 | 77.824 | 76.586 | E3 | 1.6 | 0# | 0.00 |
| 41 | h | c-36 | 77.824 | 69.446 | E3 | 10.8 | 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

EPH160628W.M Wed Jun 29 08:16:09 2016

8.5.3

8

# Continuing Calibration Summary



**Job Number:** MC46487 **Sample:** GDE819-ECC815
**Account:** AMANYWP Anderson Mulholland and Assoc. **Lab FileID:** DE14757.D
**Project:** BMSMC, Building 5 Area, Puerto Rico

Evaluate Continuing Calibration Report

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14757.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   8:50 pm
Operator  : thomasa
Sample    : ecc815-50,gde819 (Sig #1); cc815-50,gde819 (Sig #2)
Misc      : op47862,gde819,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:51:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 121.620 E3 | 3.1 | 92 | 0.00 |
| 3 | | 2-methylnaphthalene | 126.144 | 121.818 E3 | 3.4 | 94 | 0.00 |
| 4 | s | 2-fluorobiphenyl | 114.477 | 109.551 E3 | 4.3 | 93 | 0.00 |
| 5 | | acenaphthylene | 126.525 | 119.846 E3 | 5.3 | 93 | 0.00 |
| 6 | s | 2-bromonaphthalene | 71.704 | 72.485 E3 | -1.1 | 91 | 0.00 |
| 7 | | acenaphthene | 139.287 | 124.912 E3 | 10.3 | 91 | 0.00 |
| 8 | | fluorene | 128.466 | 122.436 E3 | 4.7 | 93 | 0.00 |
| 9 | | phenanthrene | 124.916 | 121.507 E3 | 2.7 | 92 | 0.00 |
| 10 | | anthracene | 133.036 | 118.804 E3 | 10.7 | 95 | 0.00 |
| 11 | s | o-terphenyl | 132.308 | 123.005 E3 | 7.0 | 92 | 0.00 |
| 12 | | fluoranthene | 128.264 | 119.714 E3 | 6.7 | 92 | 0.00 |
| 13 | | pyrene | 131.341 | 122.639 E3 | 6.6 | 92 | 0.00 |
| 14 | | benzo(a)anthracene | 121.482 | 113.971 E3 | 6.2 | 91 | 0.00 |
| 15 | | chrysene | 127.650 | 115.885 E3 | 9.2 | 92 | 0.00 |
| 16 | | benzo(B)fluoranthene | 118.397 | 111.383 E3 | 5.9 | 89 | 0.00 |
| 17 | | benzo(k)fluoranthene | 128.030 | 118.644 E3 | 7.3 | 94 | 0.00 |
| 18 | | benzo(a)pyrene | 117.959 | 109.263 E3 | 7.4 | 92 | 0.00 |
| 19 | | indeno(1,2,3-cd)pyrene | 117.046 | 108.471 E3 | 7.3 | 91 | 0.00 |
| 20 | | dibenzo(ah)anthracene | 113.307 | 106.505 E3 | 6.0 | 92 | 0.00 |
| 21 | | benzo(ghi)perylene | 113.475 | 105.132 E3 | 7.4 | 91 | 0.00 |

Signal #2

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| 25 | h | c-9 | 84.306 | 88.973 E3 | -5.5 | 0# | 0.00 |
| 26 | h | c-10 | 84.306 | 90.171 E3 | -7.0 | 0# | 0.00 |
| 27 | | naphthalene #2 | 90.911 | 96.245 E3 | -5.9 | 105 | 0.00 |
| 28 | | c-12 | 84.306 | 88.766 E3 | -5.3 | 0# | 0.00 |
| 29 | | 2-methylnaphthalene #2 | 89.937 | 95.229 E3 | -5.9 | 104 | 0.00 |
| 30 | | c-14 | 84.306 | 88.158 E3 | -4.6 | 0# | 0.00 |
| 31 | | c-16 | 84.306 | 87.679 E3 | -4.0 | 0# | 0.00 |

# Continuing Calibration Summary

**Job Number:** MC46487
**Account:** AMANYWP Anderson Mulholland and Assoc.
**Project:** BMSMC, Building 5 Area, Puerto Rico

**Sample:** GDE819-ECC815
**Lab FileID:** DE14757.D

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 32 | | c-18 | 84.306 | 87.578 | E3 | -3.9 | 0# | 0.00 |
| 33 | | c-19 | 77.824 | 86.971 | E3 | -11.8 | 0# | 0.00 |
| 34 | | c-20 | 77.824 | 85.309 | E3 | -9.6 | 0# | 0.00 |
| 35 | s | 1-chlorooctadecane | 65.153 | 69.269 | E3 | -6.3 | 106 | 0.00 |
| 36 | | c-22 | 77.824 | 85.182 | E3 | -9.5 | 0# | 0.00 |
| 37 | | c-24 | 77.824 | 79.042 | E3 | -1.6 | 0# | 0.00 |
| 38 | | c-26 | 77.824 | 84.177 | E3 | -8.2 | 0# | 0.00 |
| 39 | | c-28 | 77.824 | 81.951 | E3 | -5.3 | 0# | 0.00 |
| 40 | h | c-30 | 77.824 | 81.747 | E3 | -5.0 | 0# | 0.00 |
| 41 | h | c-36 | 77.824 | 74.251 | E3 | 4.6 | 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

EPH160628W.M Wed Jun 29 08:15:59 2016

8.5.4

8

GC Semi-volatiles

Raw Data

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14751.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:04 pm
Operator : thomasa
Sample : mc46487-1,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:03:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1834984 | 16.029 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 80.14%# | | |
| 6) s 2-bromonaphthalene | 7.218 | 1214425 | 16.937 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 84.69%# | | |
| 11) s o-terphenyl | 9.755 | 1617235 | 12.223 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 61.12%# | | |
| 35) s 1-chlorooctadecane | 11.212 | 828950 | 12.723 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 63.62%# | | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 16748267 | 134.248 µg/mlm |
| 3) 2-methylnaphthalene | 5.942 | 1866396 | 14.796 µg/ml |
| 8) fluorene | 7.937 | 53594 | 0.417 µg/ml |
| 25) h c-9 | 2.647 | 1205388 | 14.298 µg/mlm |
| 41) h c-36 | 16.983 | 1251191 | 16.077 µg/mlm |

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



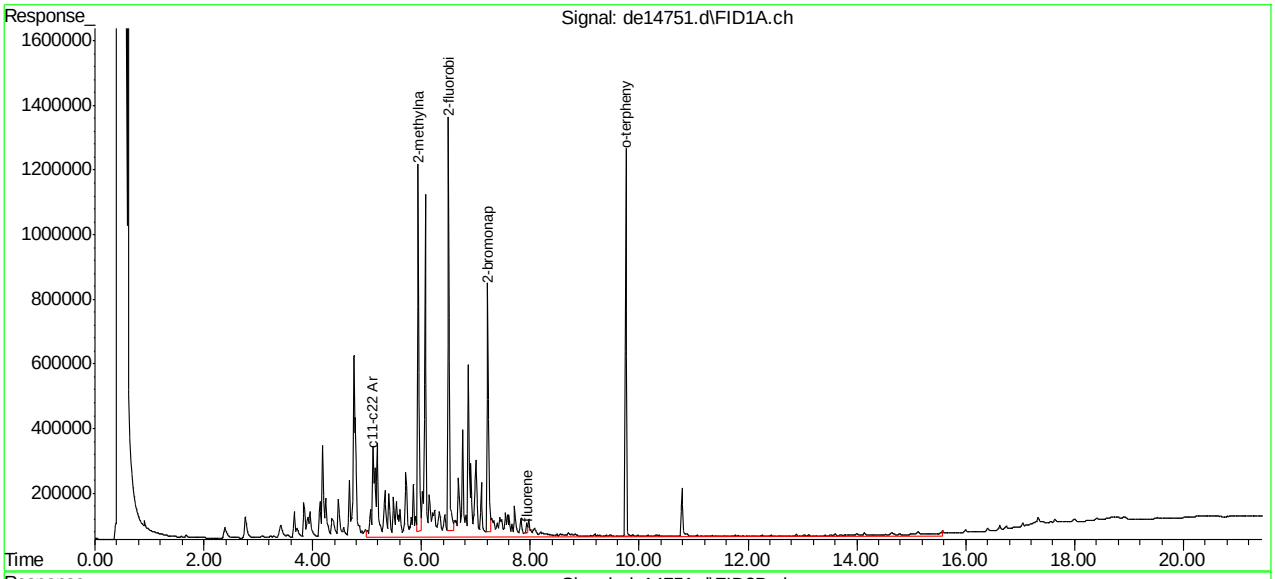
SGS ACCUTEST MC46487

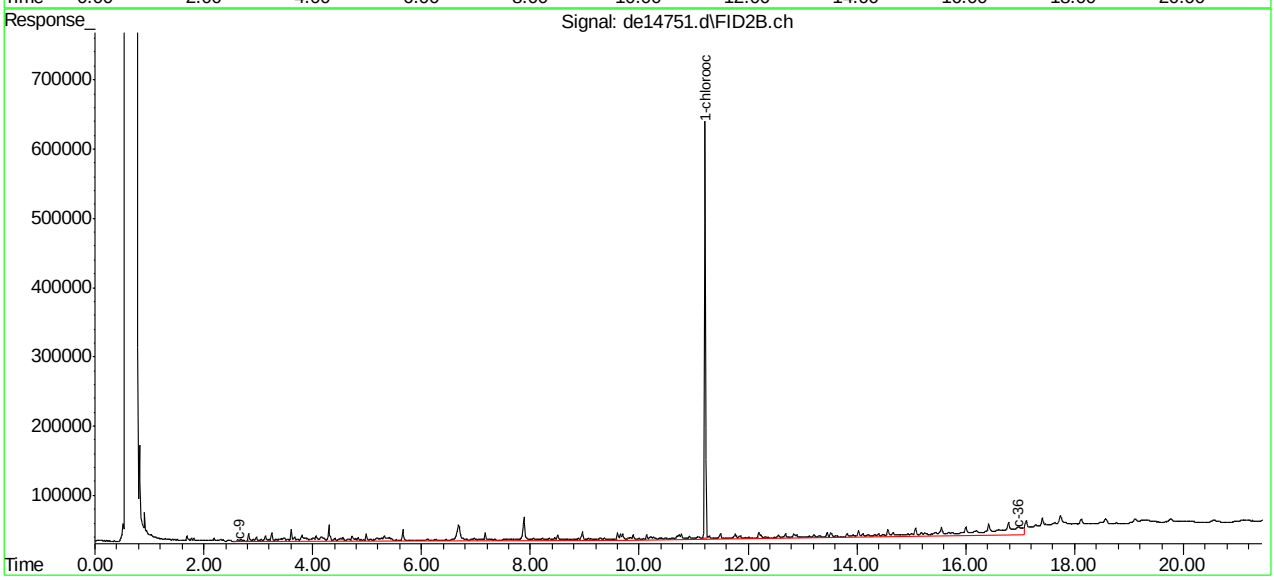
Quantitation Report (QT Reviewed)

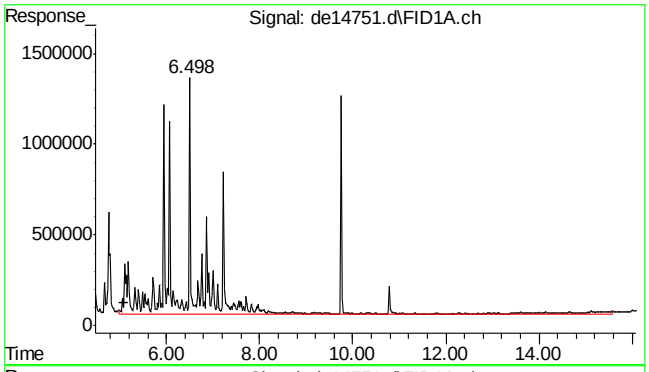
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14751.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:04 pm
Operator : thomasa
Sample : mc46487-1,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 8 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:03:37 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

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

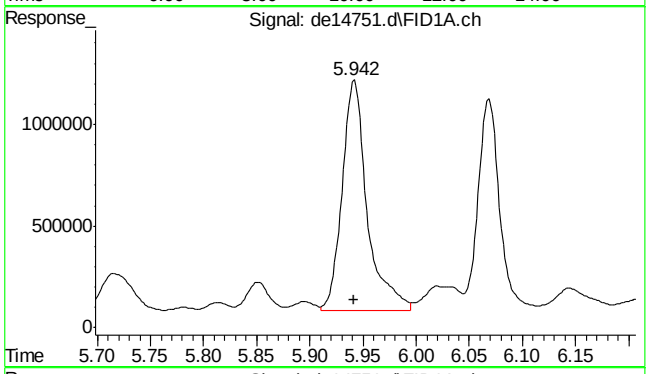




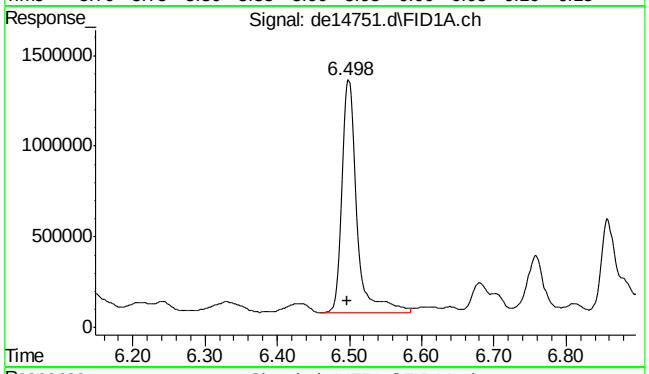

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 16748267
Conc: 134.25 µg/ml m



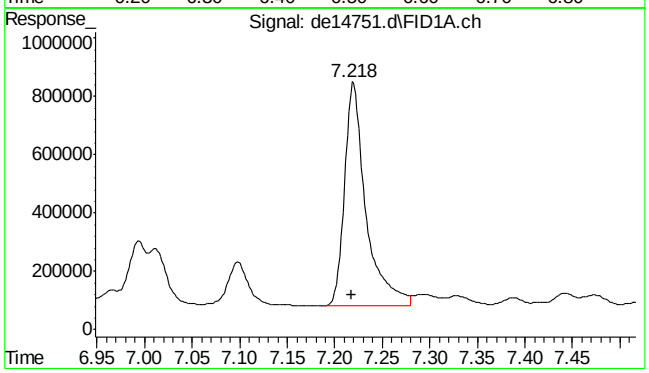

#3 2-methylnaphthalene

R.T.: 5.942 min
Delta R.T.: 0.000 min
Response: 1866396
Conc: 14.80 µg/ml




#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1834984
Conc: 16.03 µg/ml




#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1214425
Conc: 16.94 µg/ml





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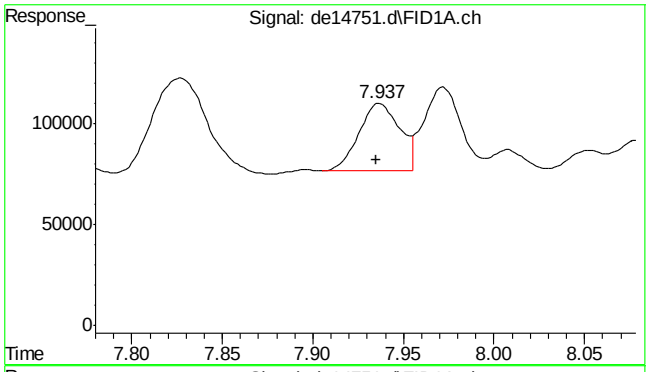
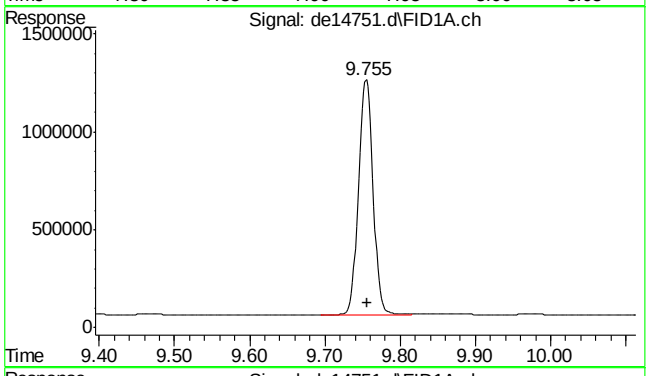


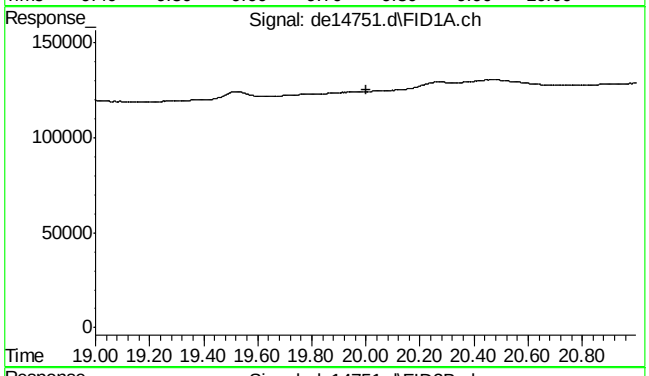

#8 fluorene

R.T.: 7.937 min
Delta R.T.: 0.002 min
Response: 53594
Conc: 0.42 µg/ml



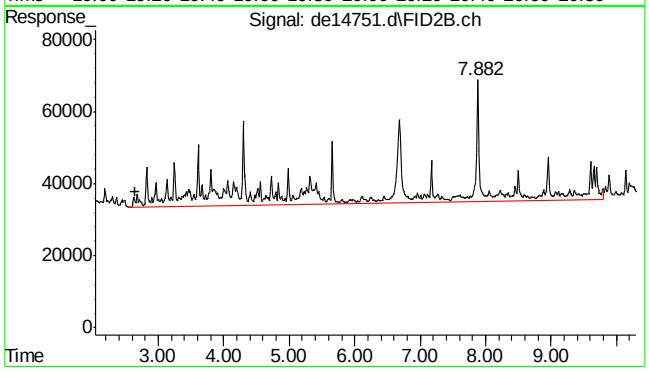

#11 o-terphenyl

R.T.: 9.755 min
Delta R.T.: -0.002 min
Response: 1617235
Conc: 12.22 µg/ml




#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.




#25 c-9

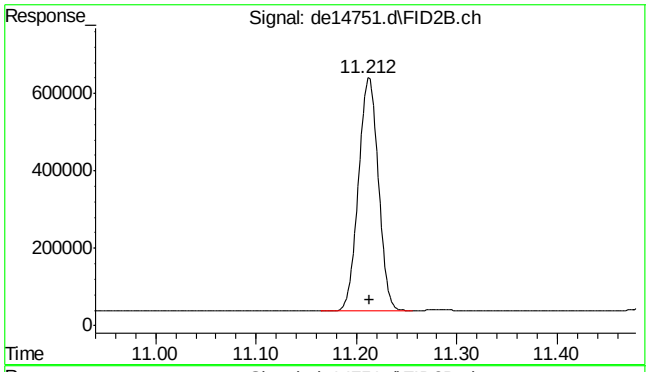
R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1205388
Conc: 14.30 µg/ml m

9.1.1

9

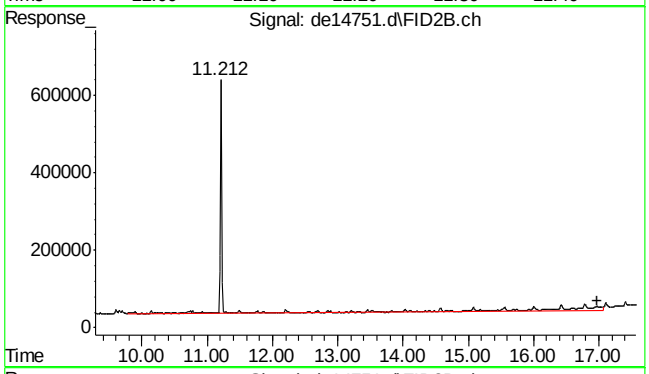


SGS ACCUTEST MC46487



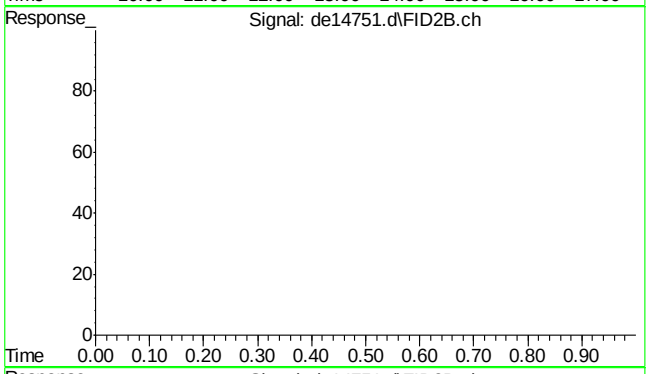

#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 828950
Conc: 12.72 µg/ml



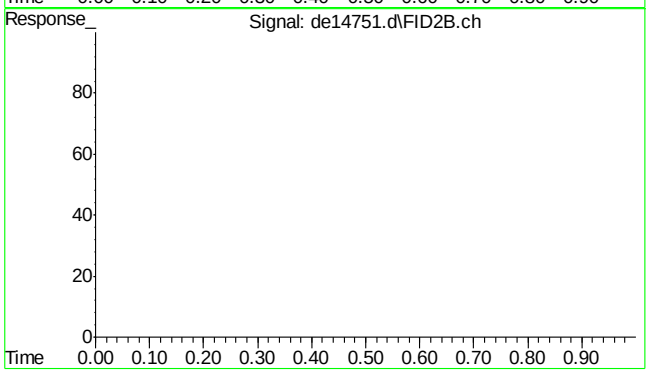

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1251191
Conc: 16.08 µg/ml m




#42 bht

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



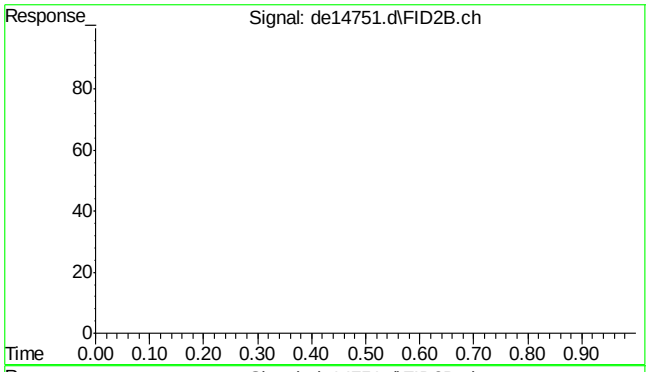

#43 bht

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



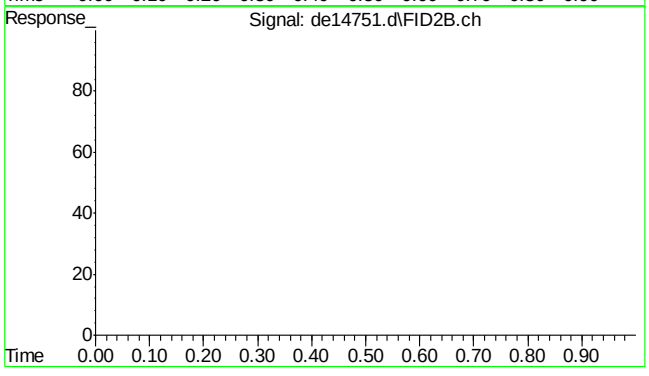


SGS ACCUTEST MC46487




#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 MC46487

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14752.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:32 pm
Operator : thomasa
Sample : mc46487-2,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:06:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 1840799 | 16.080 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 80.40%# | |
| 6) s 2-bromonaphthalene | 7.220 | 1272597 | 17.748 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 88.74%# | |
| 11) s o-terphenyl | 9.755 | 1673514 | 12.649 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 63.24%# | |
| 35) s 1-chlorooctadecane | 11.212 | 866842 | 13.305 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 66.53%# | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 3594190 | 28.810 µg/mlm |
| 2) naphthalene | 5.058 | 46743 | 0.372 µg/ml |
| 3) 2-methylnaphthalene | 5.948 | 113251 | 0.898 µg/ml |
| 25) h c-9 | 2.647 | 967829 | 11.480 µg/mlm |
| 41) h c-36 | 16.983 | 1101617 | 14.155 µg/mlm |

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

9.1.2

9



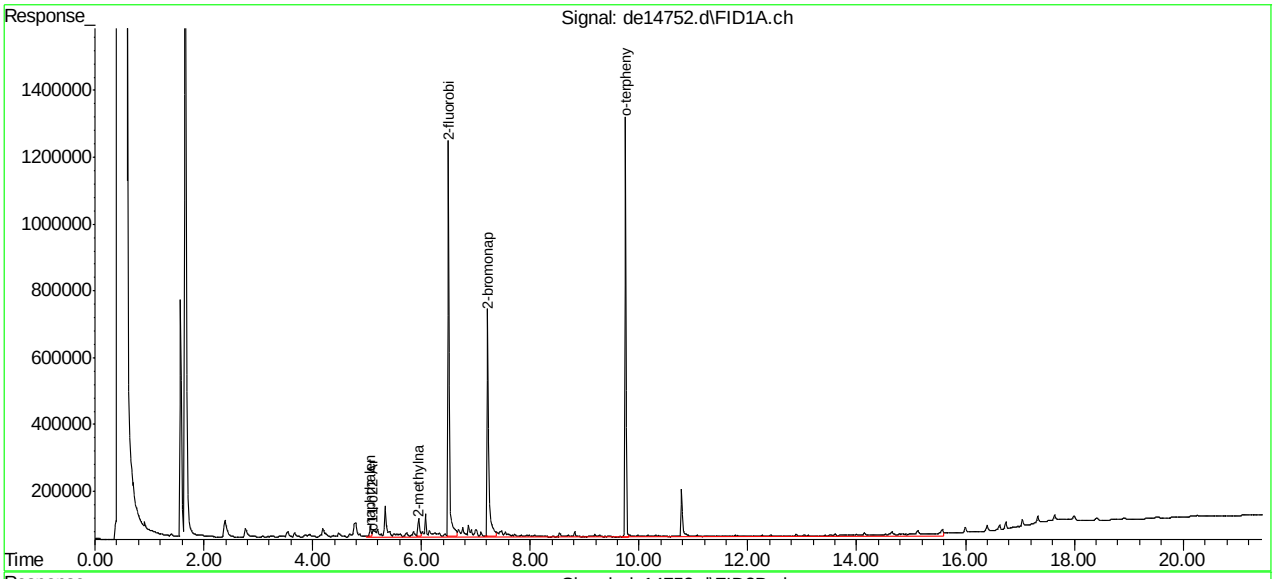
SGS ACCUTEST MC46487

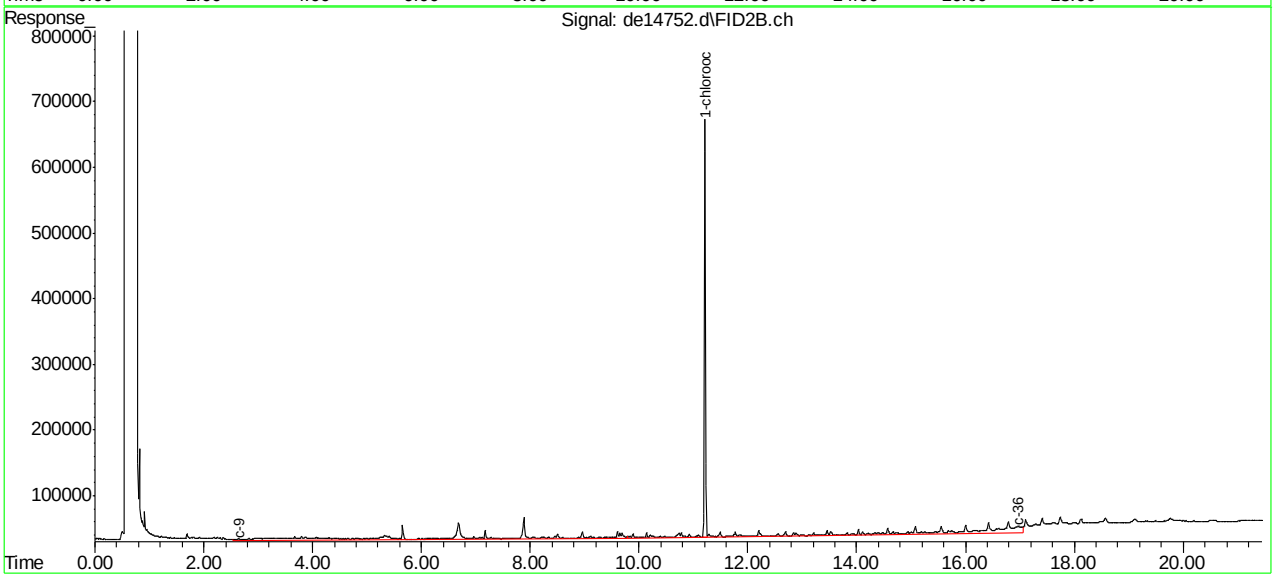
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14752.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:32 pm
Operator : thomasa
Sample : mc46487-2,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 10 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:06:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

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

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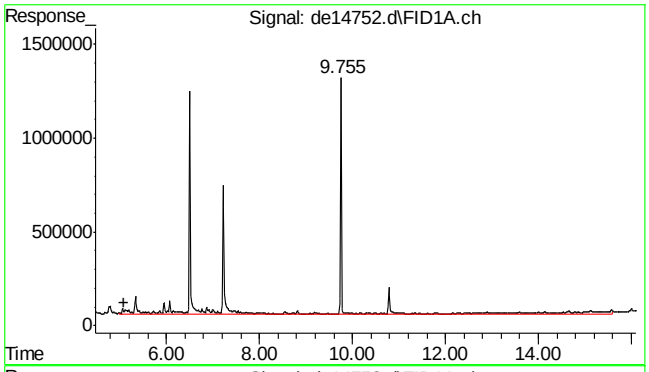
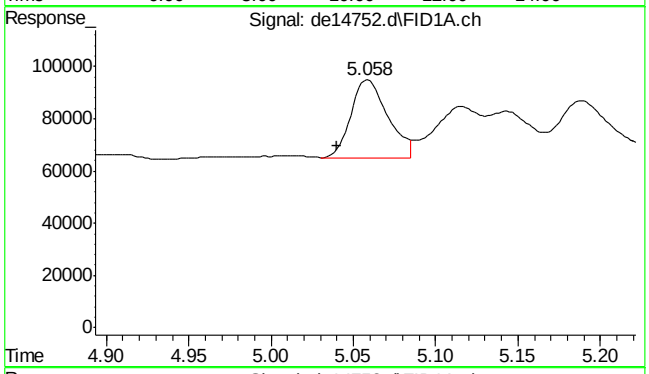


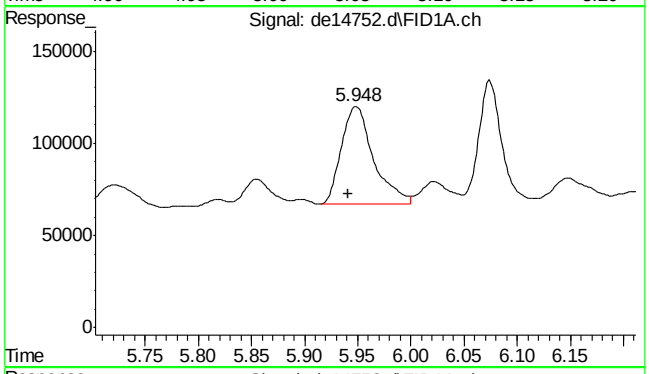

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 3594190
Conc: 28.81 µg/ml m



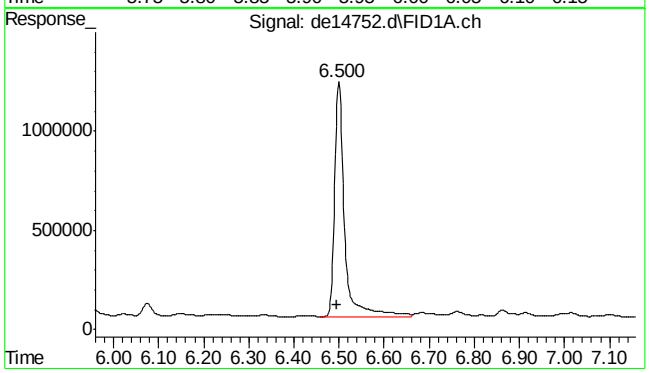

#2 naphthalene

R.T.: 5.058 min
Delta R.T.: 0.018 min
Response: 46743
Conc: 0.37 µg/ml



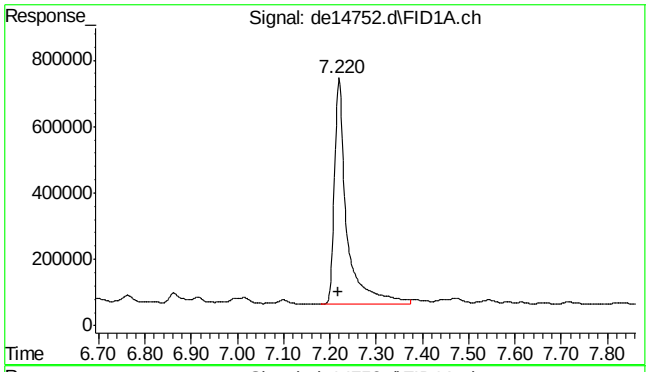

#3 2-methylnaphthalene

R.T.: 5.948 min
Delta R.T.: 0.007 min
Response: 113251
Conc: 0.90 µg/ml



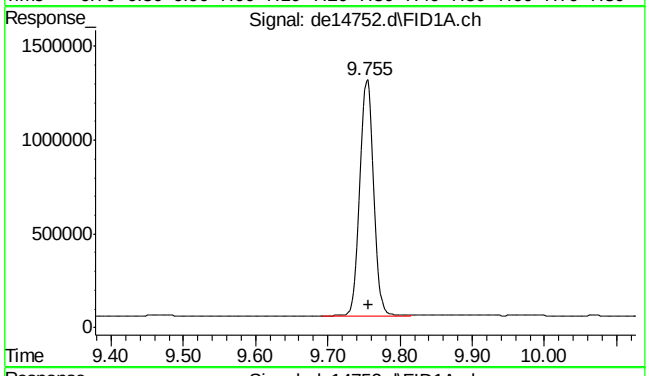

#4 2-fluorobiphenyl

R.T.: 6.500 min
Delta R.T.: 0.003 min
Response: 1840799
Conc: 16.08 µg/ml



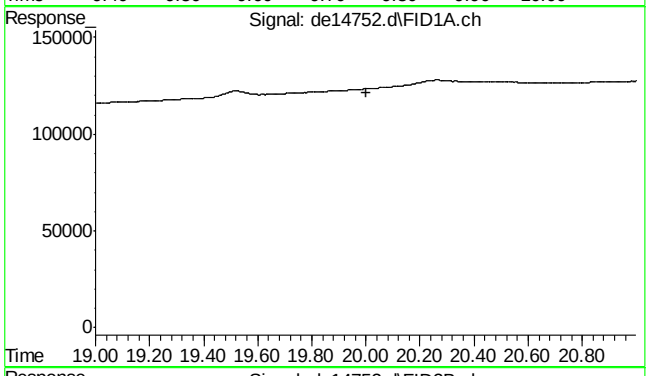

#6 2-bromonaphthalene

R.T.: 7.220 min
Delta R.T.: 0.002 min
Response: 1272597
Conc: 17.75 µg/ml



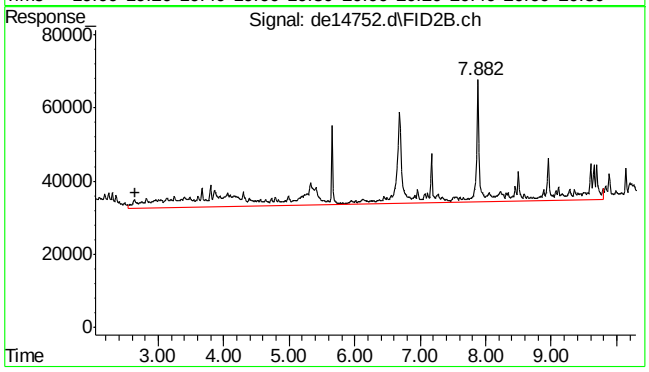

#11 o-terphenyl

R.T.: 9.755 min
Delta R.T.: -0.002 min
Response: 1673514
Conc: 12.65 µg/ml



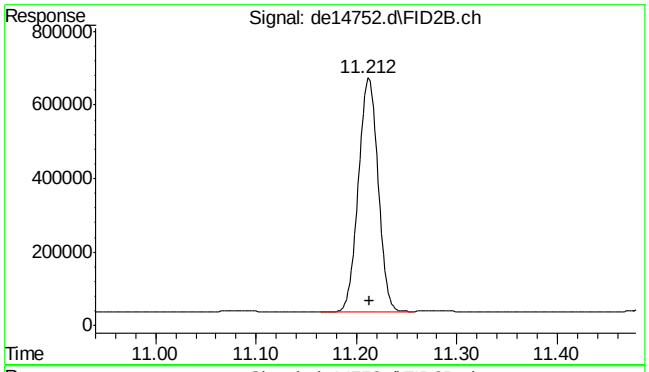

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



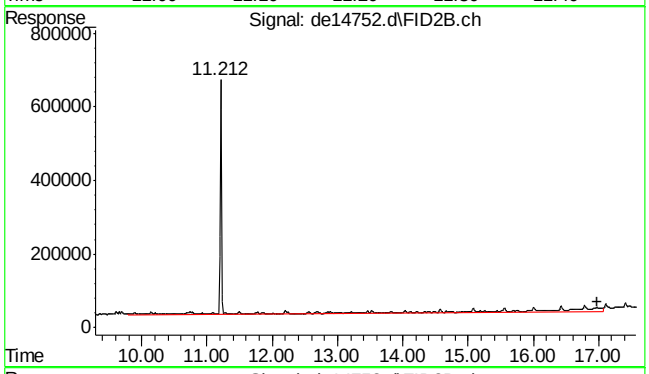

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 967829
Conc: 11.48 µg/ml m



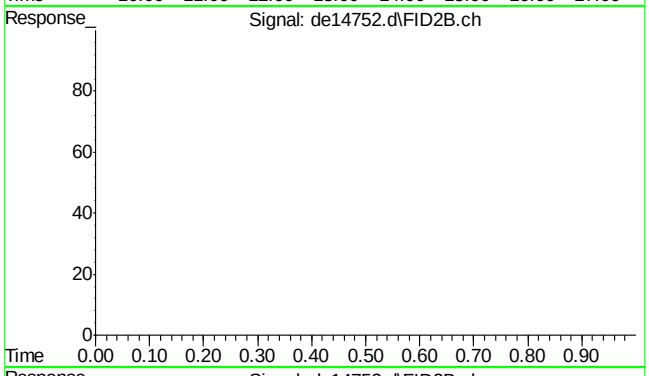

#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 866842
Conc: 13.30 µg/ml



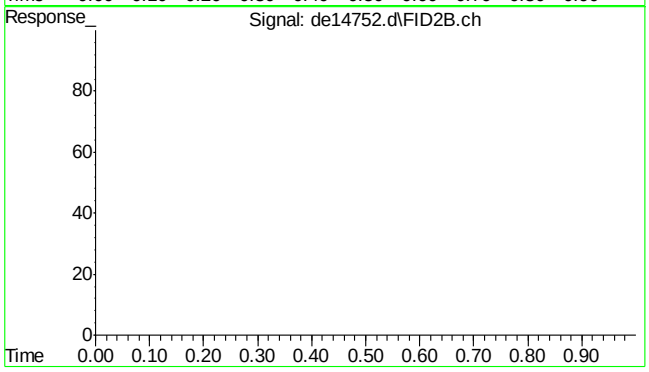

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1101617
Conc: 14.16 µg/ml m



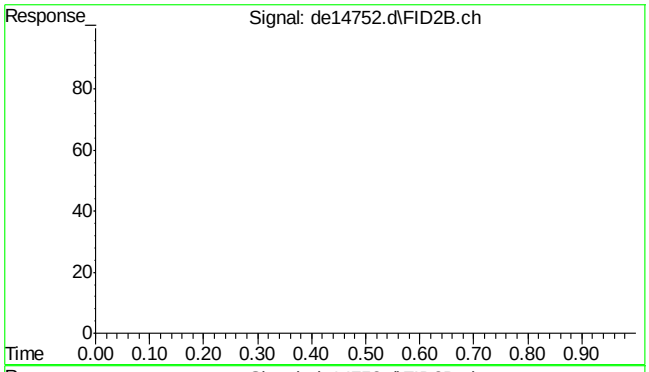

#42 bht

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



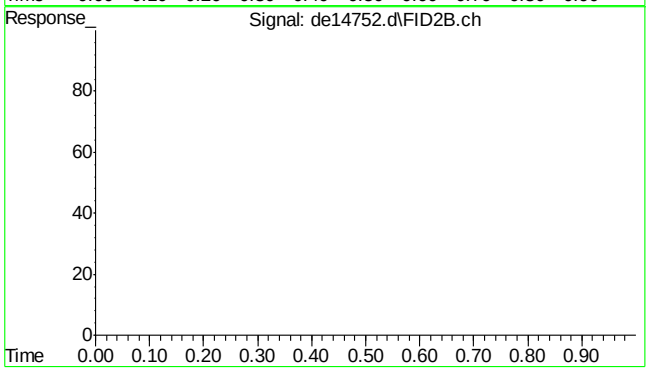

#43 bht

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\DE160628EPH\
Data File : de14753.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:59 pm
Operator : thomasa
Sample : mc46487-4,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:08:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1595511 | 13.937 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 69.69%# | |
| 6) s 2-bromonaphthalene | 7.220 | 1110832 | 15.492 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 77.46%# | |
| 11) s o-terphenyl | 9.753 | 1165147 | 8.806 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 44.03%# | |
| 35) s 1-chlorooctadecane | 11.212 | 592501 | 9.094 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 45.47%# | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 2571443 | 20.612 µg/mlm |
| 25) h c-9 | 2.647 | 1555522 | 18.451 µg/mlm |
| 41) h c-36 | 16.983 | 1876873 | 24.117 µg/mlm |

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



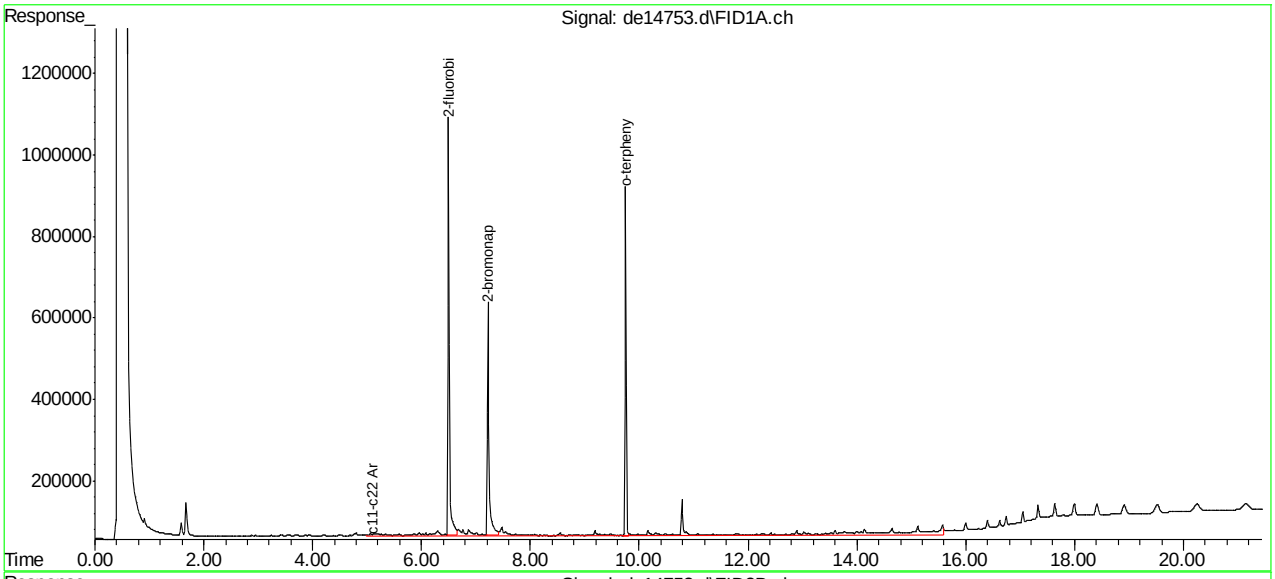
SGS ACCUTEST MC46487

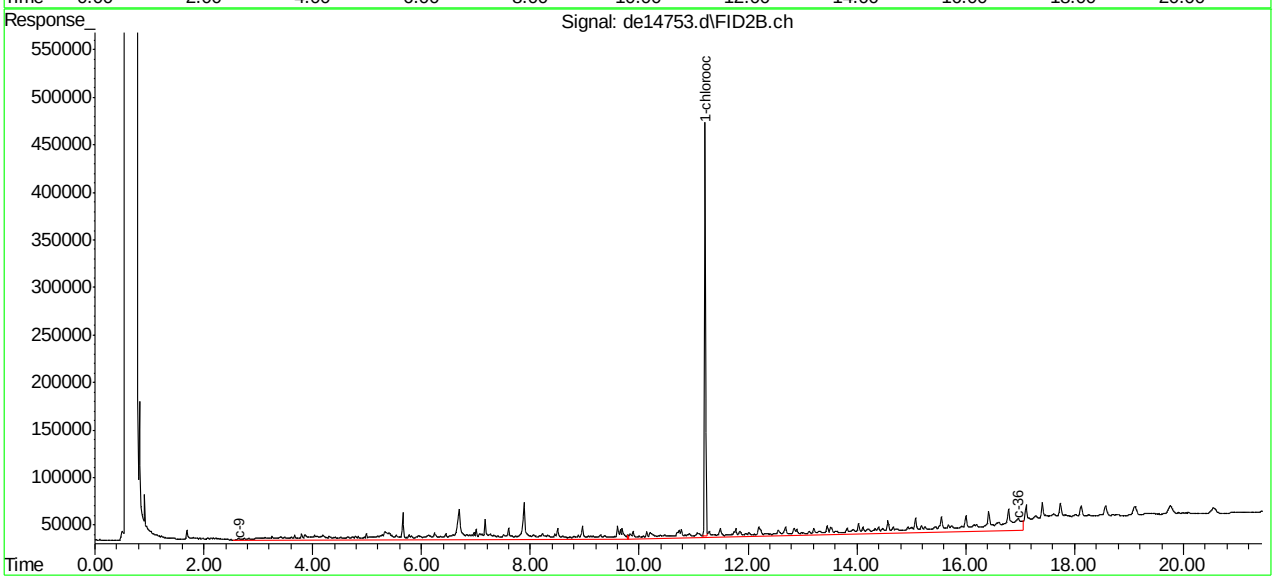
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14753.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 6:59 pm
Operator : thomasa
Sample : mc46487-4,op47926
Misc : op47926,gde819,930,,,2,,w
ALS Vial : 12 Sample Multiplier: 1

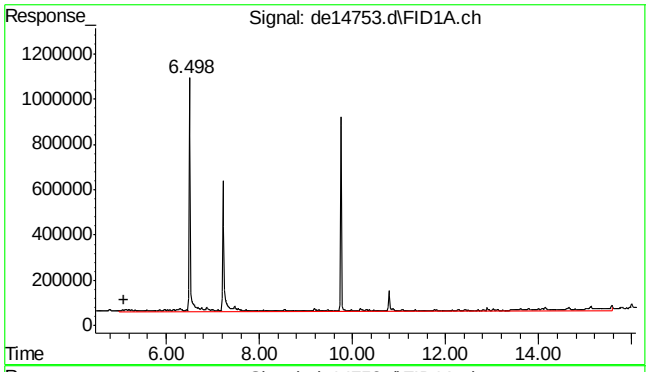
Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:08:56 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

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



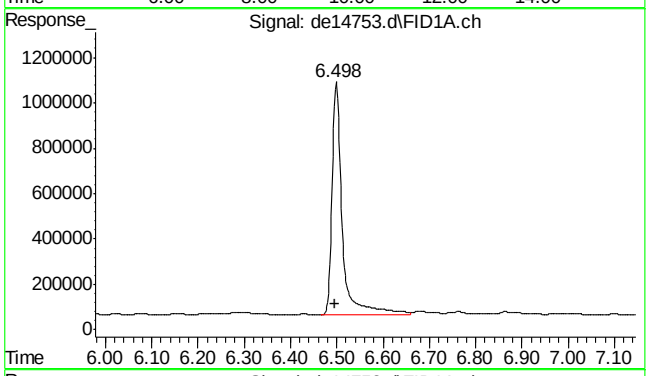




EPH160628W.M Wed Jun 29 08:17:42 2016 Page: 2



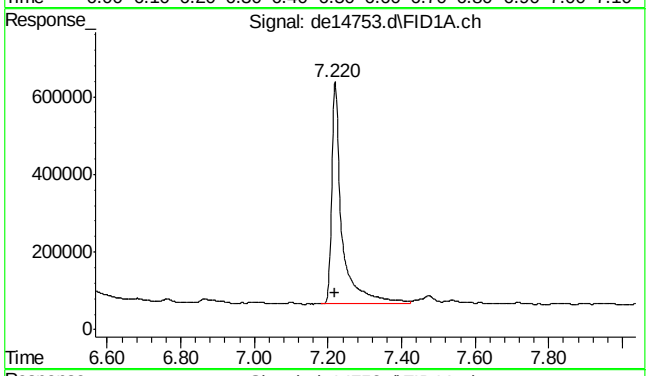

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2571443
Conc: 20.61 µg/ml m



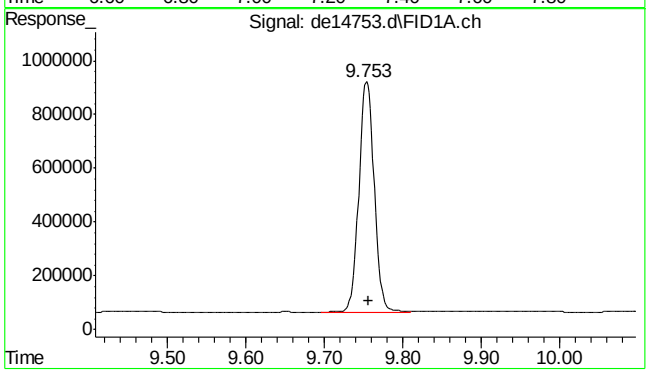

#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1595511
Conc: 13.94 µg/ml




#6 2-bromonaphthalene

R.T.: 7.220 min
Delta R.T.: 0.002 min
Response: 1110832
Conc: 15.49 µg/ml



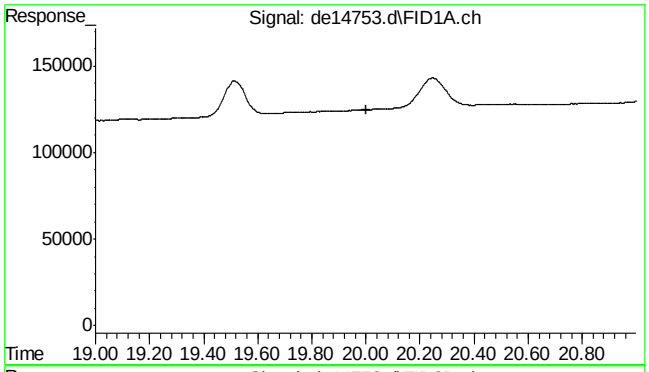

#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: -0.003 min
Response: 1165147
Conc: 8.81 µg/ml



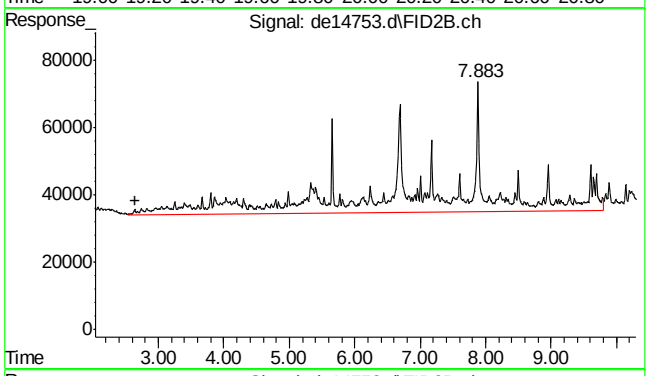


SGS ACCUTEST MC46487



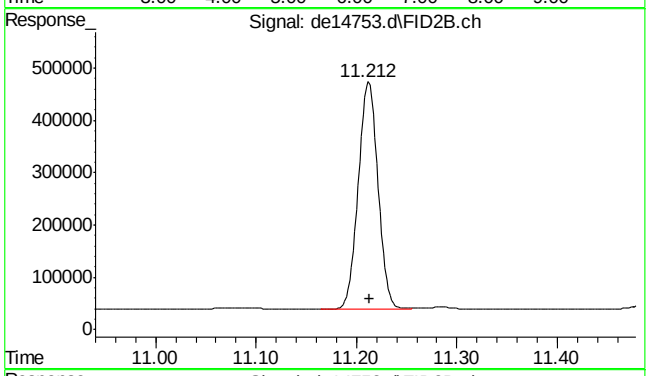

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



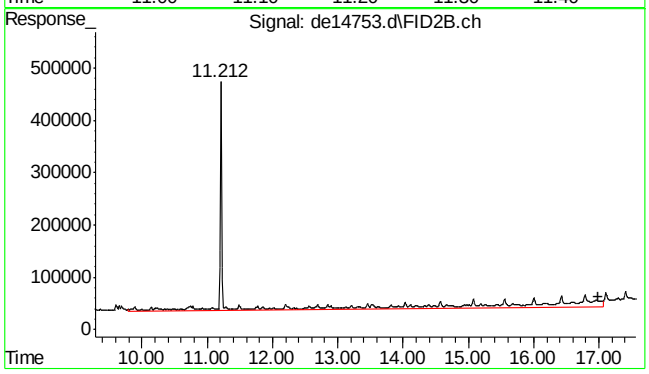

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 1555522
Conc: 18.45 µg/ml m




#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 592501
Conc: 9.09 µg/ml




#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1876873
Conc: 24.12 µg/ml m

9.1.3

9



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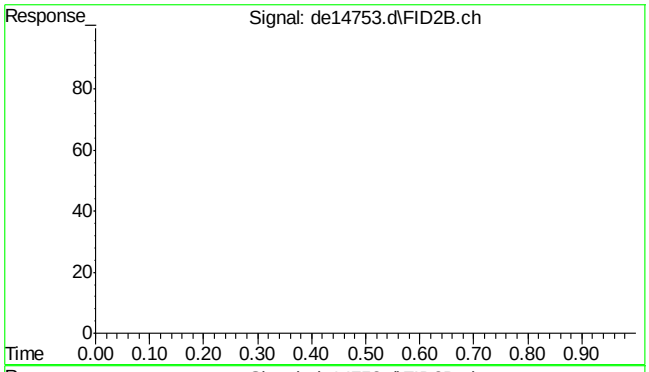
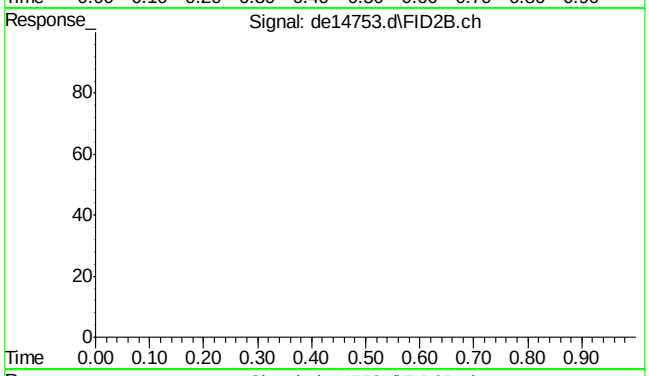


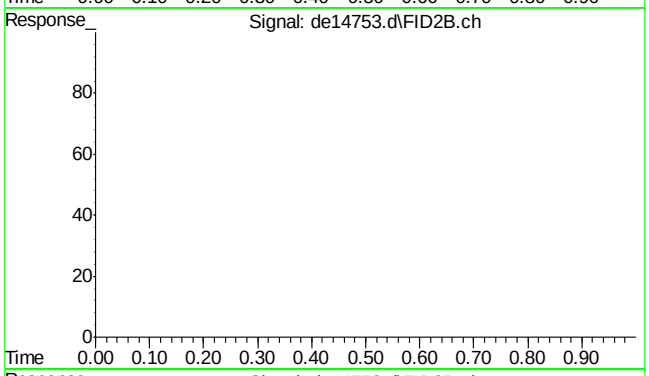

#42 bht

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



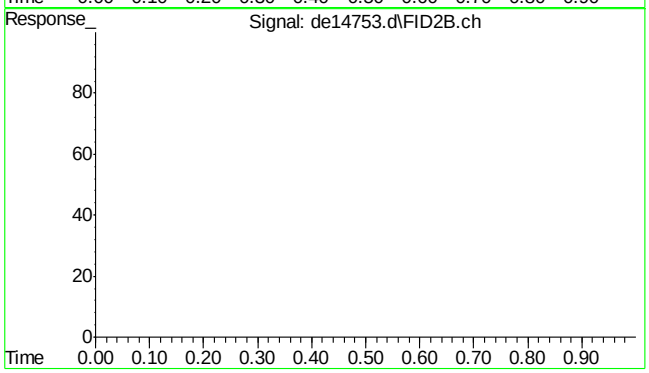

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14754.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 7:27 pm
Operator : thomasa
Sample : mc46487-5,op47926
Misc : op47926,gde819,950,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:11:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1842952 | 16.099 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 80.50%# | | |
| 6) s 2-bromonaphthalene | 7.218 | 1258641 | 17.553 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 87.77%# | | |
| 11) s o-terphenyl | 9.752 | 1496196 | 11.308 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 56.54%# | | |
| 35) s 1-chlorooctadecane | 11.212 | 732444 | 11.242 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | Recovery = 56.21%# | | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 2184800 | 17.512 µg/mlm |
| 25) h c-9 | 2.647 | 933437 | 11.072 µg/mlm |
| 41) h c-36 | 16.983 | 1202157 | 15.447 µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.



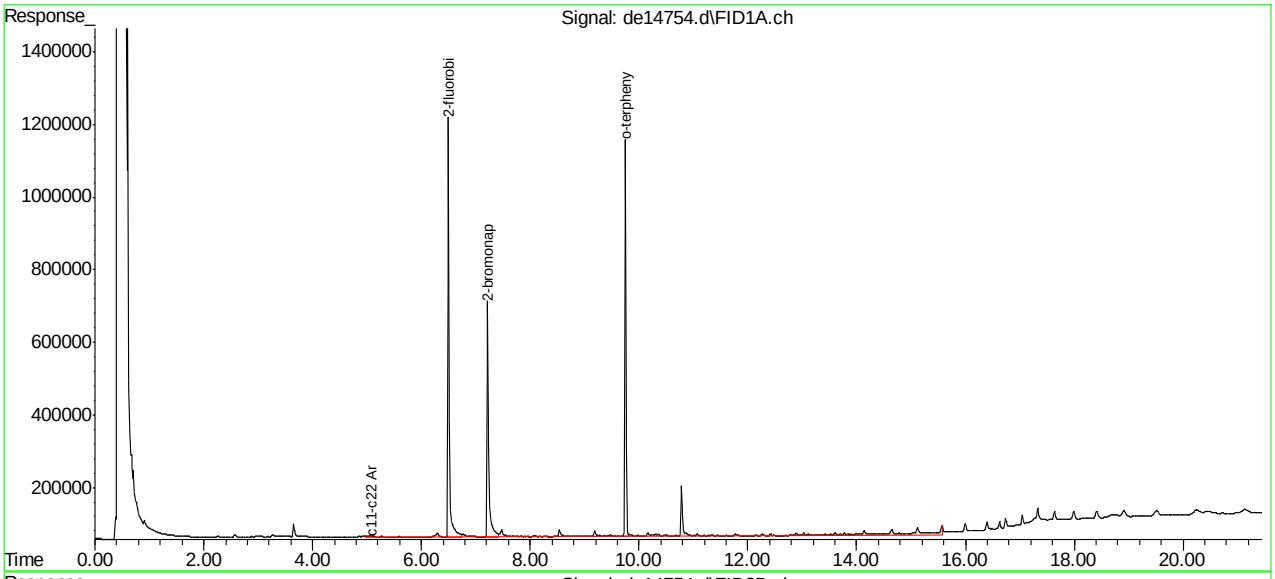
SGS ACCUTEST MC46487

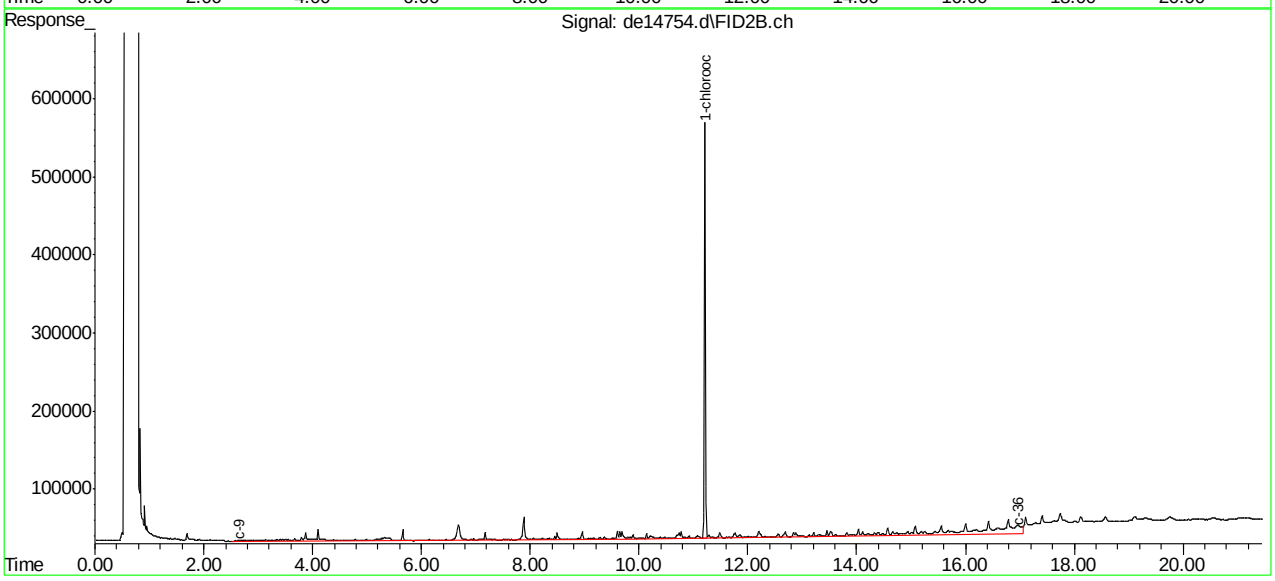
Quantitation Report (QT Reviewed)

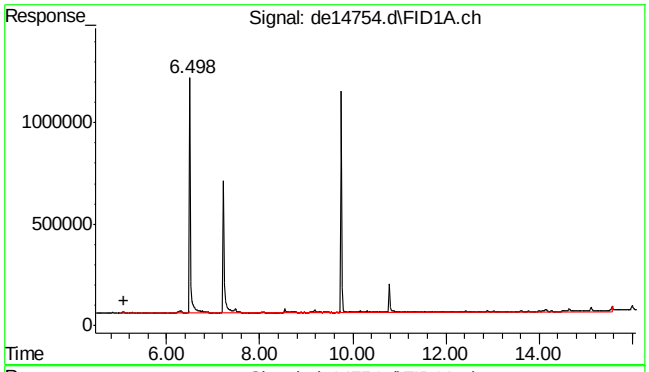
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14754.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 7:27 pm
Operator : thomasa
Sample : mc46487-5,op47926
Misc : op47926,gde819,950,,,2,,w
ALS Vial : 14 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:11:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

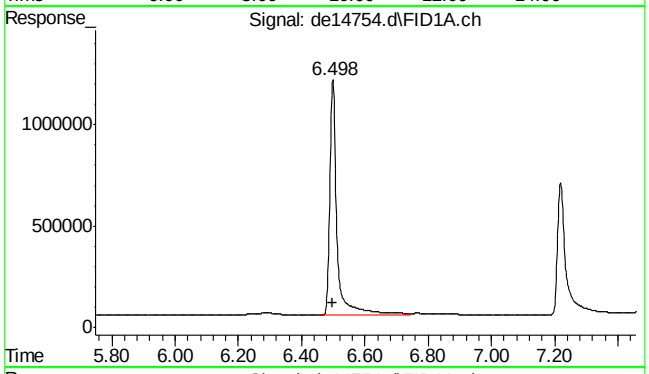




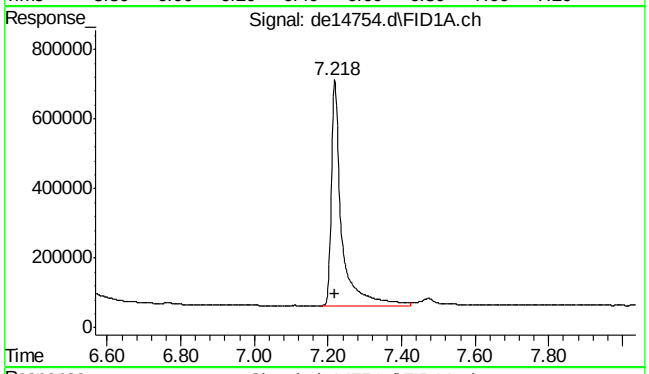

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2184800
Conc: 17.51 µg/ml m



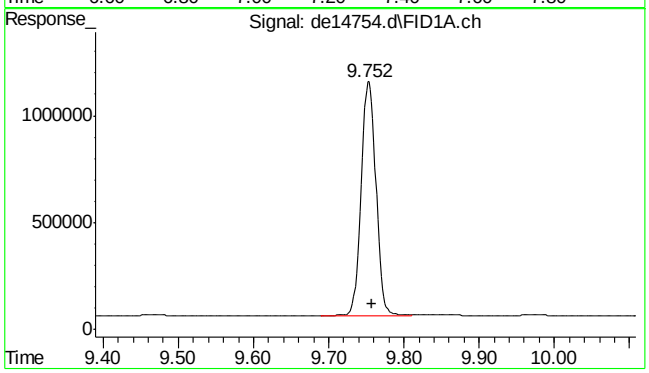

#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1842952
Conc: 16.10 µg/ml




#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1258641
Conc: 17.55 µg/ml



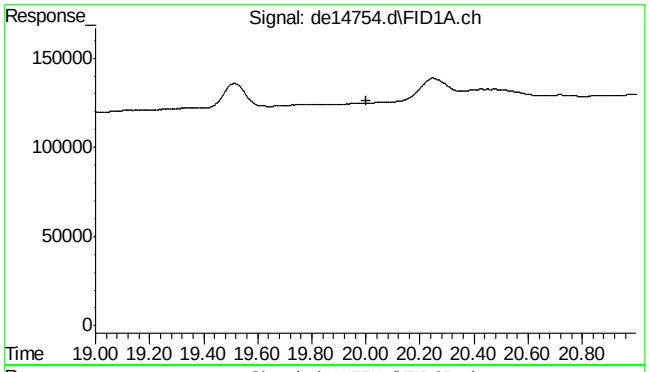

#11 o-terphenyl

R.T.: 9.752 min
Delta R.T.: -0.005 min
Response: 1496196
Conc: 11.31 µg/ml



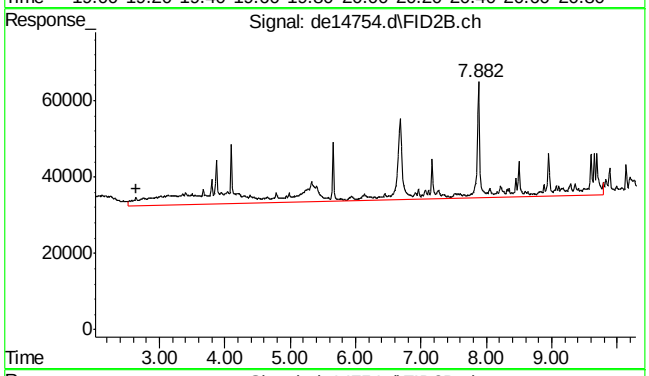


SGS ACCUTEST MC46487



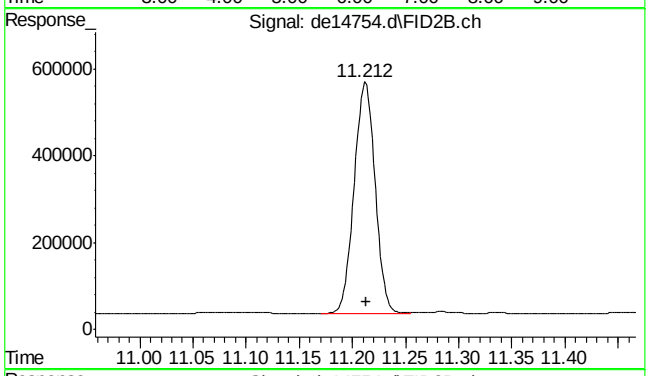

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



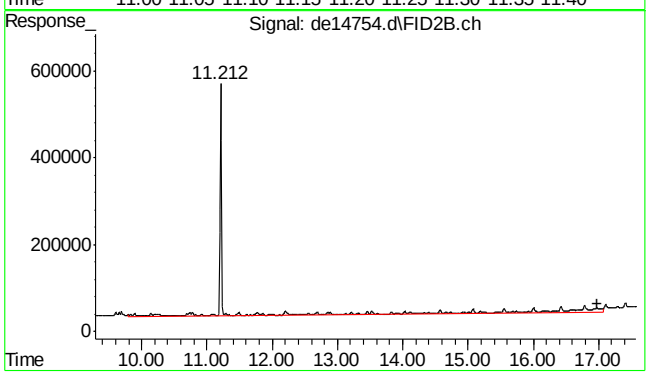

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 933437
Conc: 11.07 µg/ml m




#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 732444
Conc: 11.24 µg/ml




#41 c-36

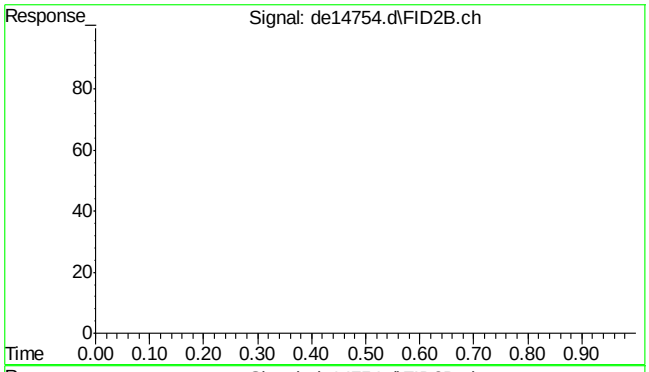
R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1202157
Conc: 15.45 µg/ml m

9.1.4

9

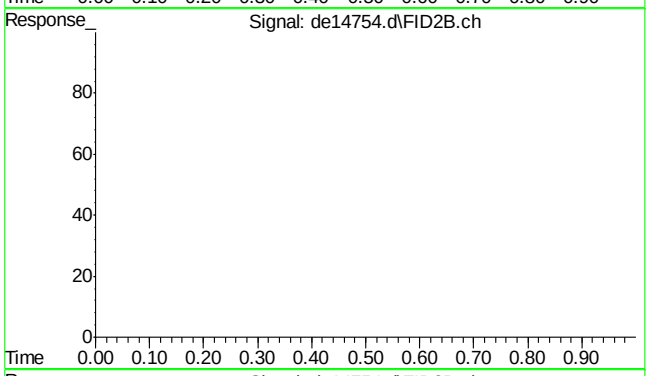


SGS ACCUTEST MC46487



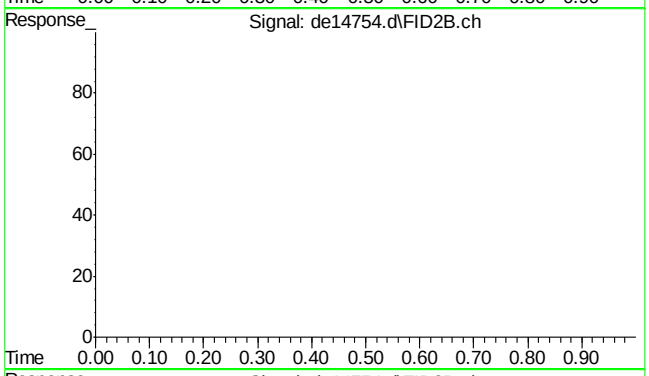

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



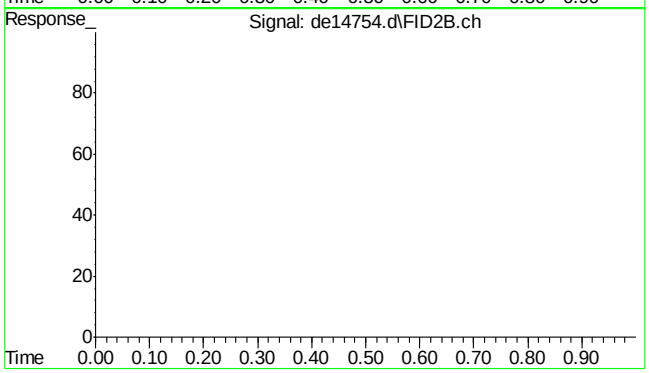

#43 bht

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\DE160628EPH\
Data File : de14755.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 7:55 pm
Operator : thomasa
Sample : mc46487-6,op47926
Misc : op47926,gde819,980,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:13:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1750966 | 15.295 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 76.48%# | |
| 6) s 2-bromonaphthalene | 7.218 | 1197346 | 16.699 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 83.50%# | |
| 11) s o-terphenyl | 9.753 | 1647641 | 12.453 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 62.26%# | |
| 35) s 1-chlorooctadecane | 11.212 | 900865 | 13.827 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 69.14%# | |
| **Target Compounds** | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 2097895 | 16.816 µg/mlm |
| 10) anthracene | 9.183 | 30728 | 0.231 µg/ml |
| 25) h c-9 | 2.647 | 857728 | 10.174 µg/mlm |
| 41) h c-36 | 16.983 | 1124634 | 14.451 µg/mlm |

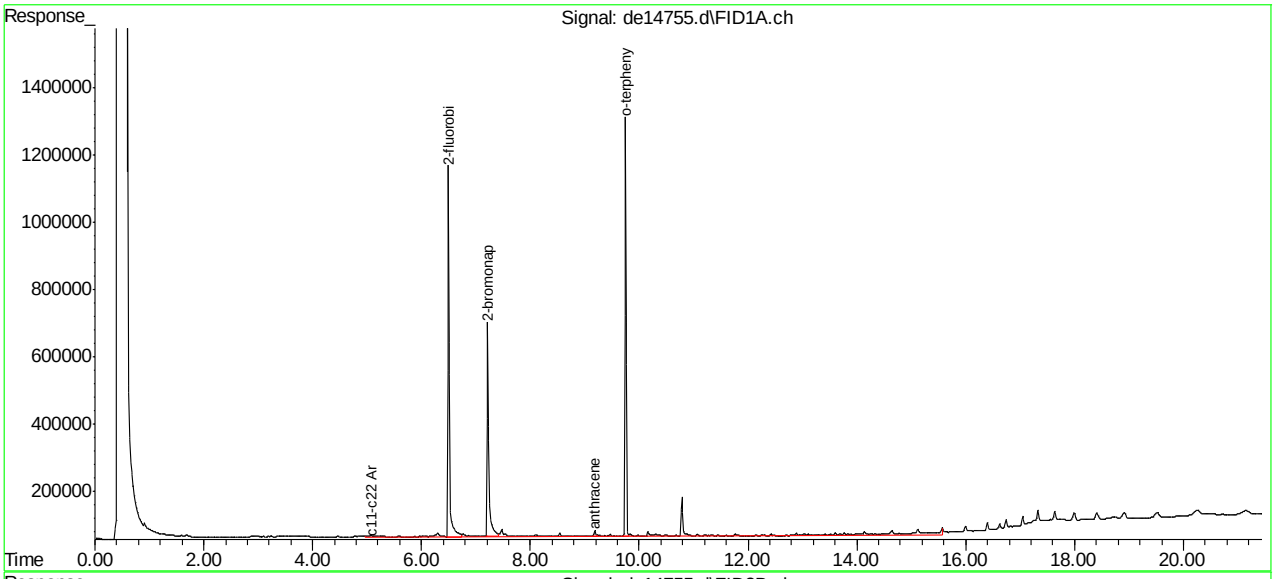
(f)=RT Delta > 1/2 Window (m)=manual int.

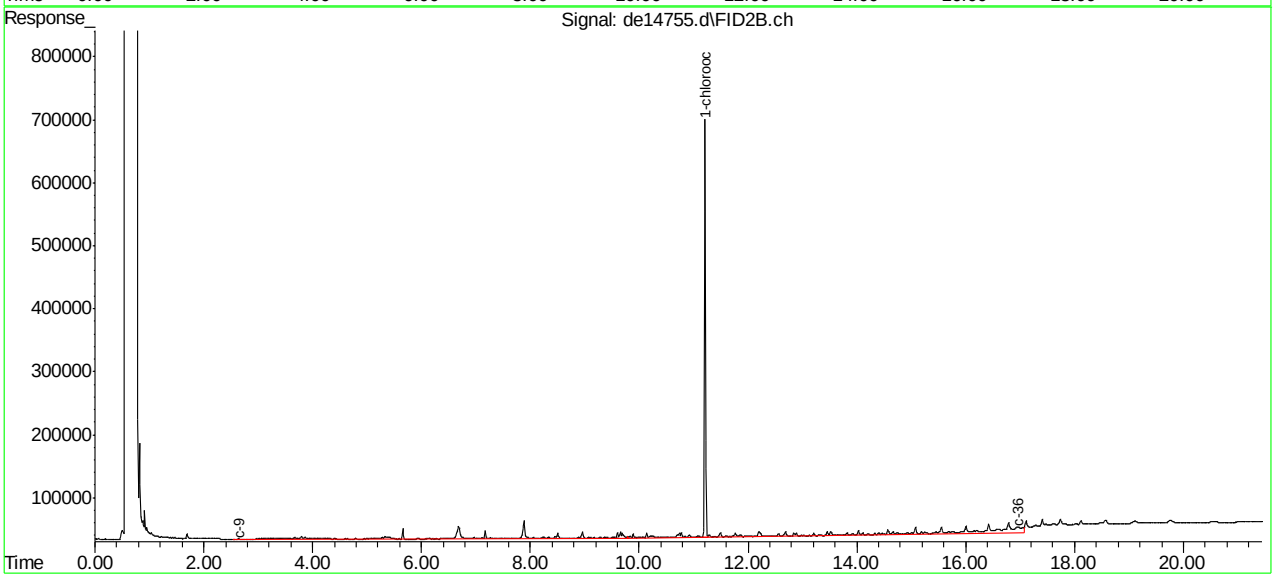
Quantitation Report (QT Reviewed)

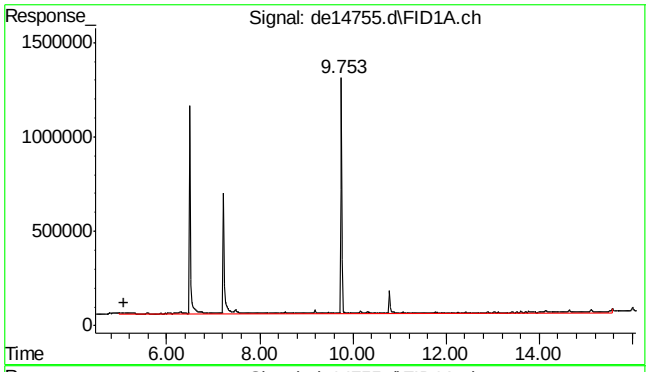
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14755.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 7:55 pm
Operator : thomasa
Sample : mc46487-6,op47926
Misc : op47926,gde819,980,,,2,,w
ALS Vial : 16 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:13:53 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

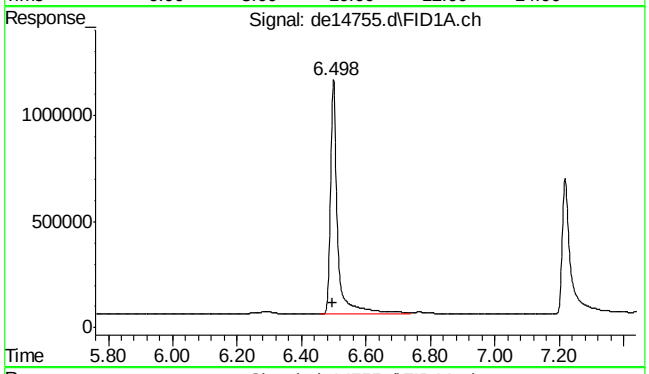




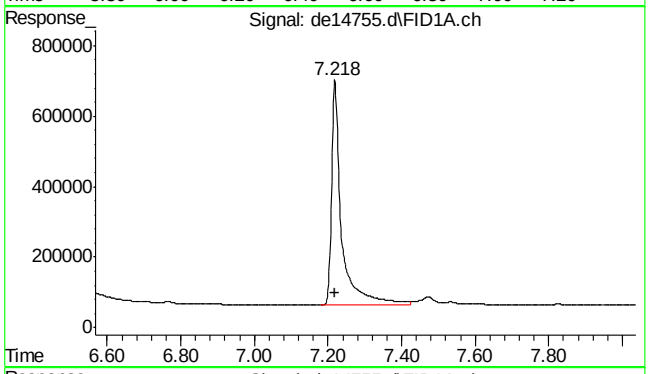

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2097895
Conc: 16.82 µg/ml m



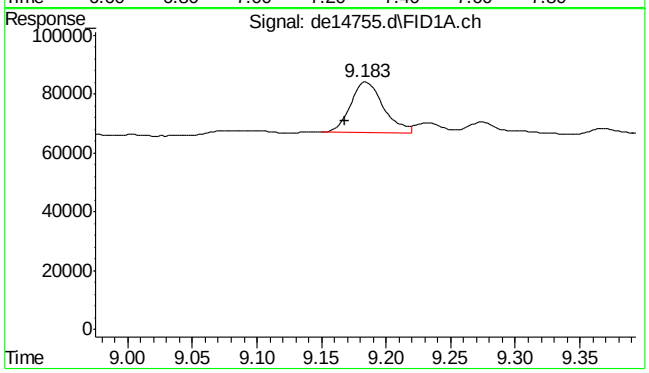

#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1750966
Conc: 15.30 µg/ml




#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1197346
Conc: 16.70 µg/ml




#10 anthracene

R.T.: 9.183 min
Delta R.T.: 0.015 min
Response: 30728
Conc: 0.23 µg/ml





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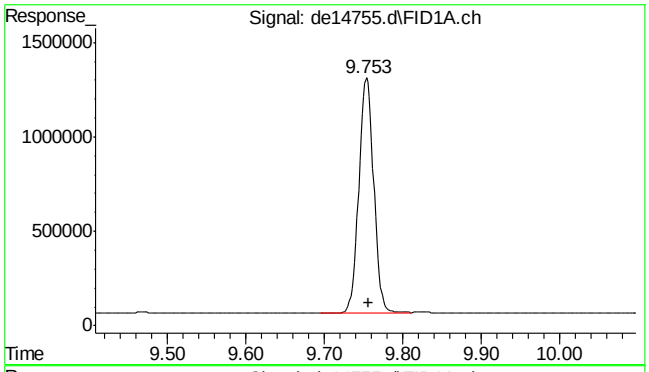
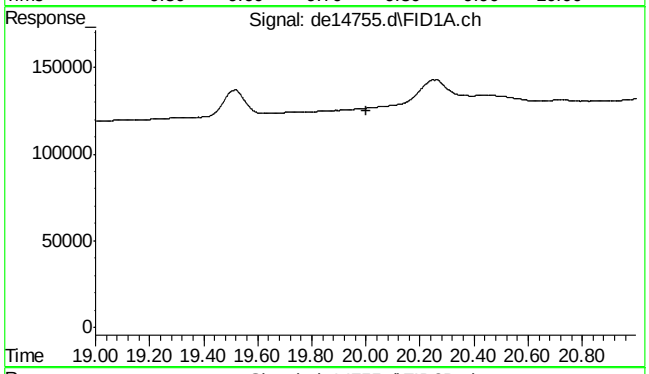


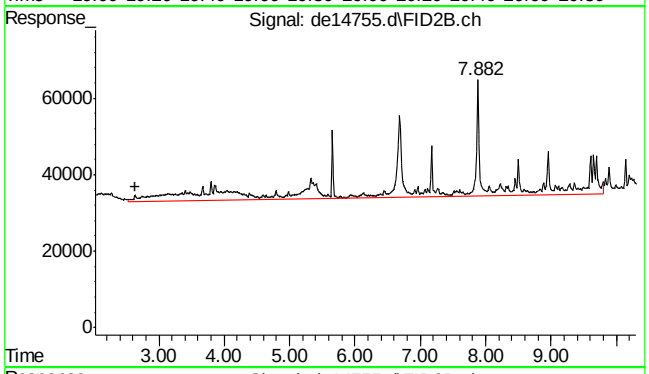

#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: -0.003 min
Response: 1647641
Conc: 12.45 µg/ml



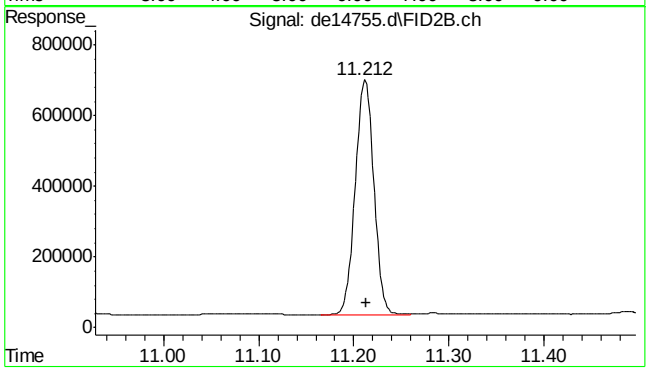

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



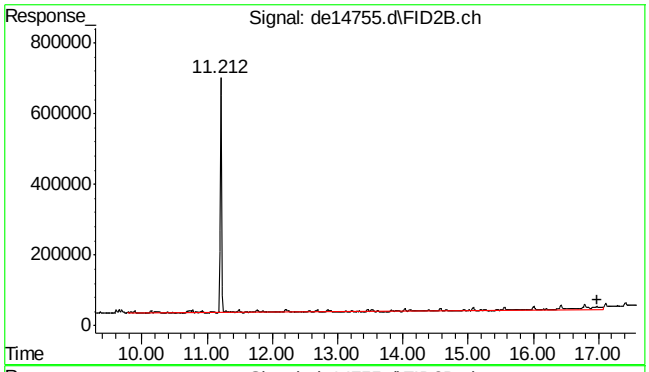

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 857728
Conc: 10.17 µg/ml m



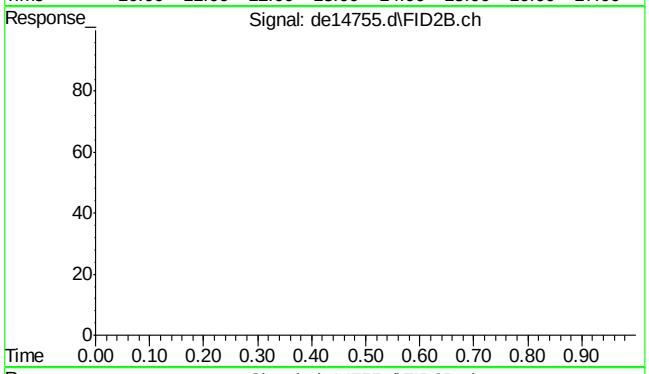

#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 900865
Conc: 13.83 µg/ml



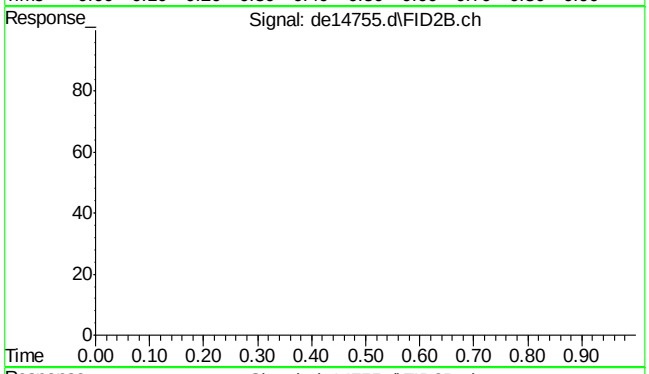

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1124634
Conc: 14.45 µg/ml m



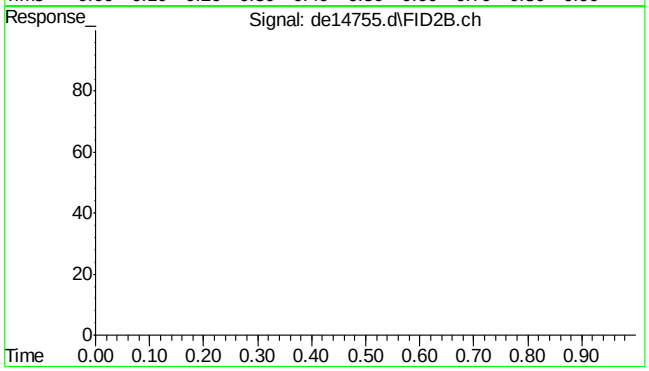

#42 bht

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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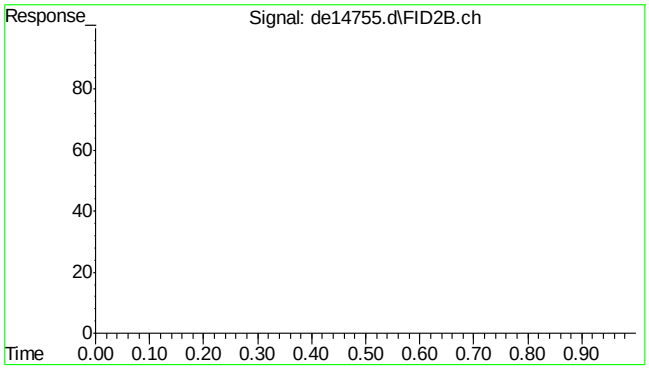



#45 bht

| | |
|---|---|
| R.T.: | 0.000 min |
| Exp R.T. : | 23.000 min |
| Response: | 0 |
| Conc: | N.D. |

9.1.5

9



SGS ACCUTEST MC46487

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14756.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 8:23 pm
Operator : thomasa
Sample : mc46487-7,op47926
Misc : op47926,gde819,960,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:15:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 1828747 | 15.975 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 79.88%# | |
| 6) s 2-bromonaphthalene | 7.218 | 1253023 | 17.475 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 87.38%# | |
| 11) s o-terphenyl | 9.753 | 1747221 | 13.206 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 66.03%# | |
| 35) s 1-chlorooctadecane | 11.212 | 872257 | 13.388 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 66.94%# | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 1993096 | 15.976 µg/mlm |
| 10) anthracene | 9.182 | 28106 | 0.211 µg/ml |
| 25) h c-9 | 2.647 | 906053 | 10.747 µg/mlm |
| 41) h c-36 | 16.983 | 1495059 | 19.211 µg/mlm |

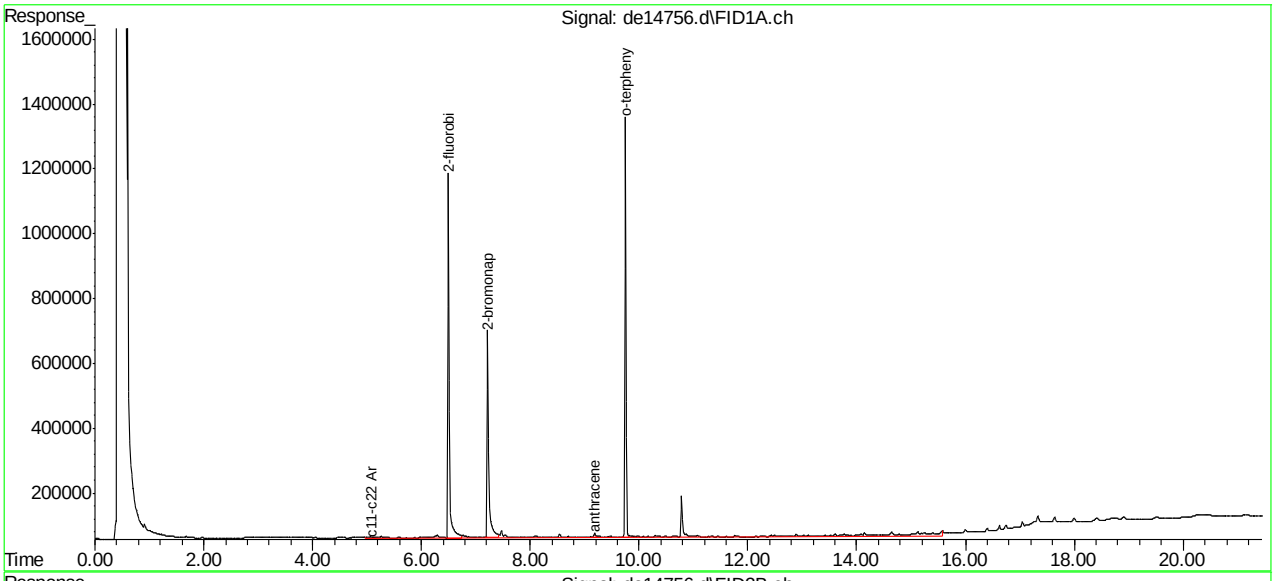
(f)=RT Delta > 1/2 Window (m)=manual int.

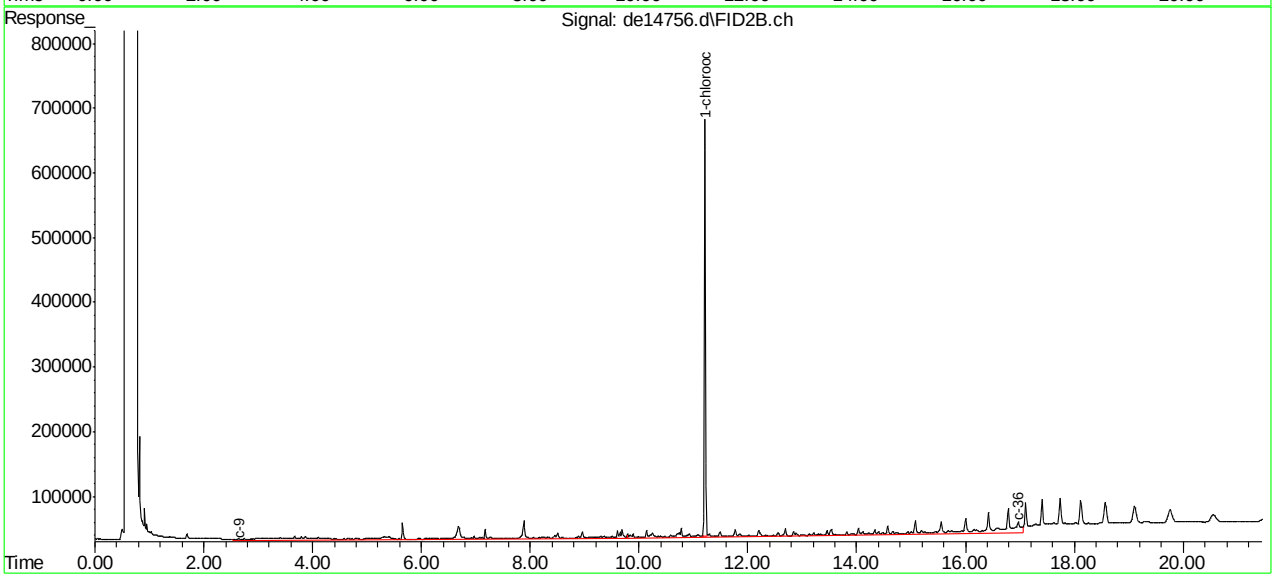
Quantitation Report (QT Reviewed)

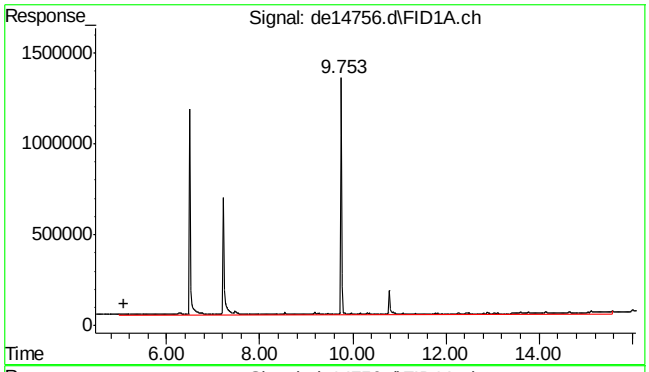
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14756.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 8:23 pm
Operator : thomasa
Sample : mc46487-7,op47926
Misc : op47926,gde819,960,,,2,,w
ALS Vial : 18 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:15:44 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

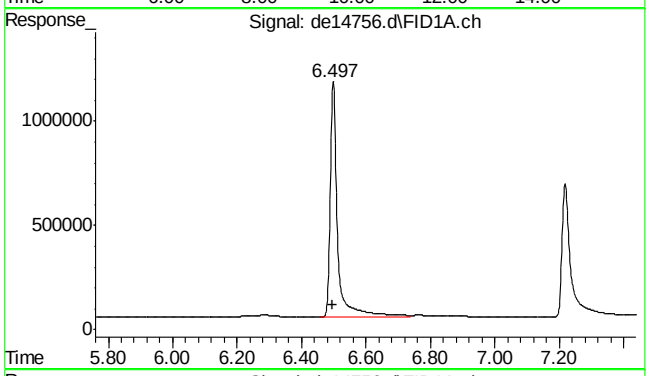




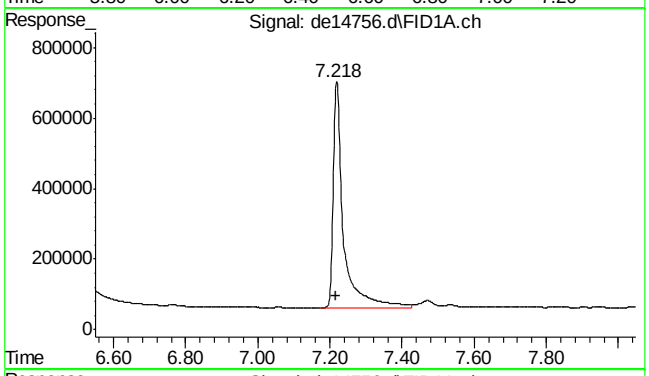

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 1993096
Conc: 15.98 µg/ml m



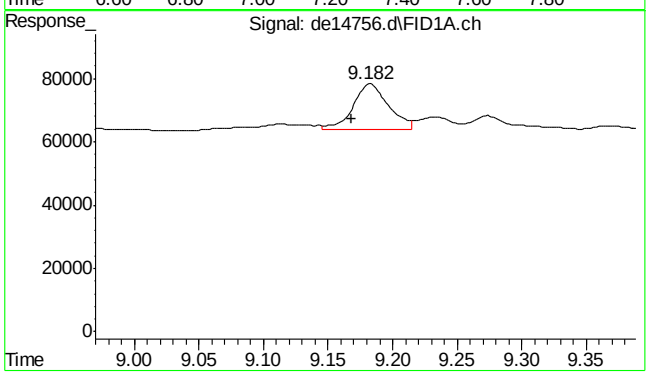

#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.000 min
Response: 1828747
Conc: 15.97 µg/ml



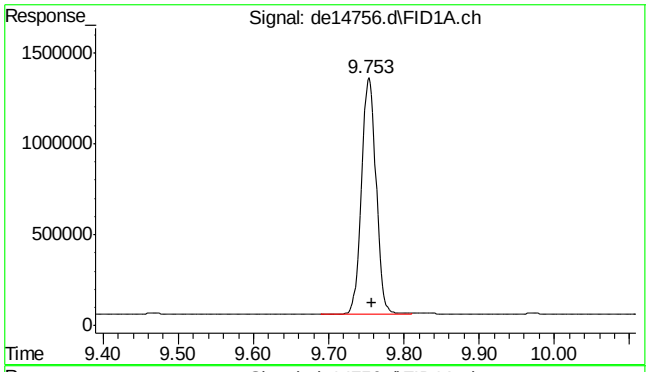

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1253023
Conc: 17.48 µg/ml



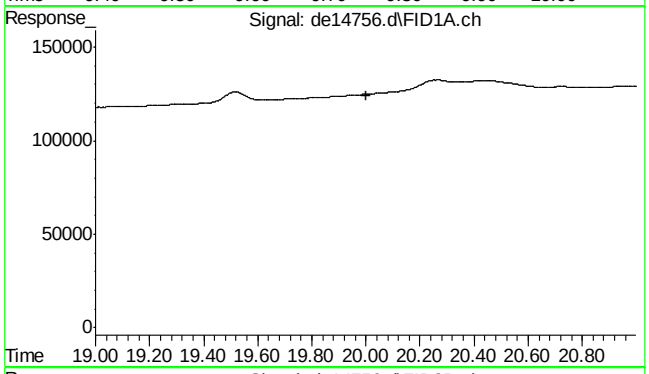

#10 anthracene

R.T.: 9.182 min
Delta R.T.: 0.013 min
Response: 28106
Conc: 0.21 µg/ml



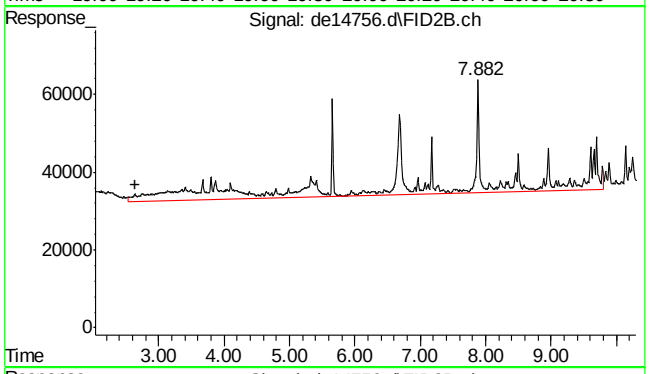

#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: -0.003 min
Response: 1747221
Conc: 13.21 µg/ml



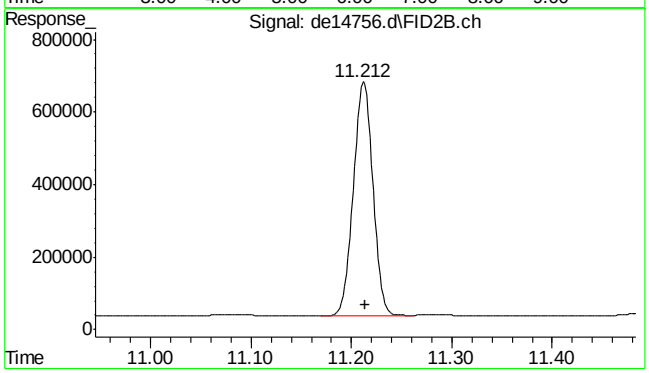

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



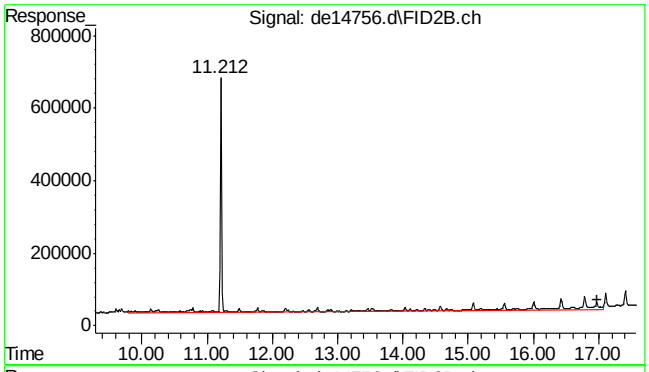

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 906053
Conc: 10.75 µg/ml m



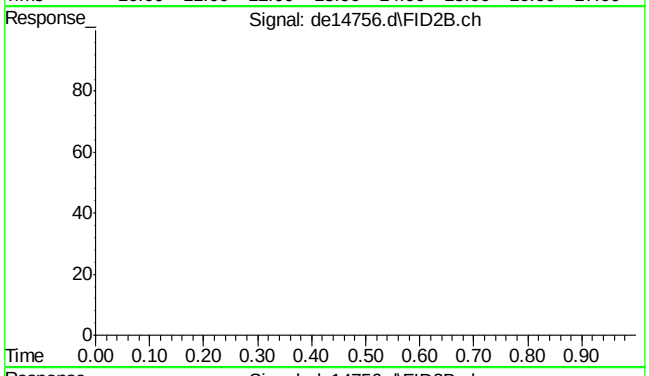

#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 872257
Conc: 13.39 µg/ml



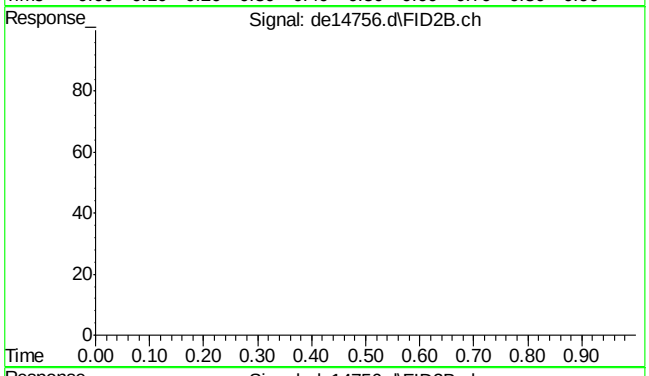

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1495059
Conc: 19.21 µg/ml m



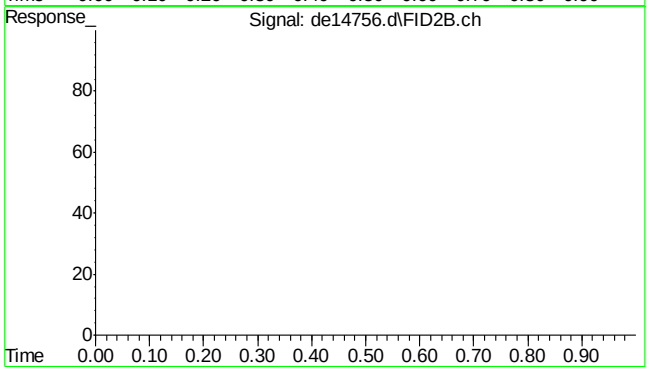

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



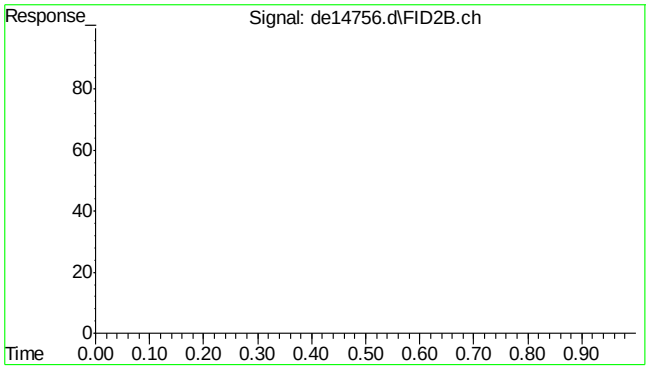

#43 bht

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. |

9.1.6

6

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14750.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:36 pm
Operator : thomasa
Sample : op47926-mb
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:55:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1717072 | 14.999 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 75.00%# | |
| 6) s 2-bromonaphthalene | 7.220 | 1167148 | 16.277 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 81.39%# | |
| 11) s o-terphenyl | 9.755 | 1659749 | 12.545 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 62.72%# | |
| 35) s 1-chlorooctadecane | 11.212 | 935665 | 14.361 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 71.81%# | |
| Target Compounds | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 2006943 | 16.087 µg/mlm |
| 25) h c-9 | 2.647 | 984630 | 11.679 µg/mlm |
| 41) h c-36 | 16.983 | 1226727 | 15.763 µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.



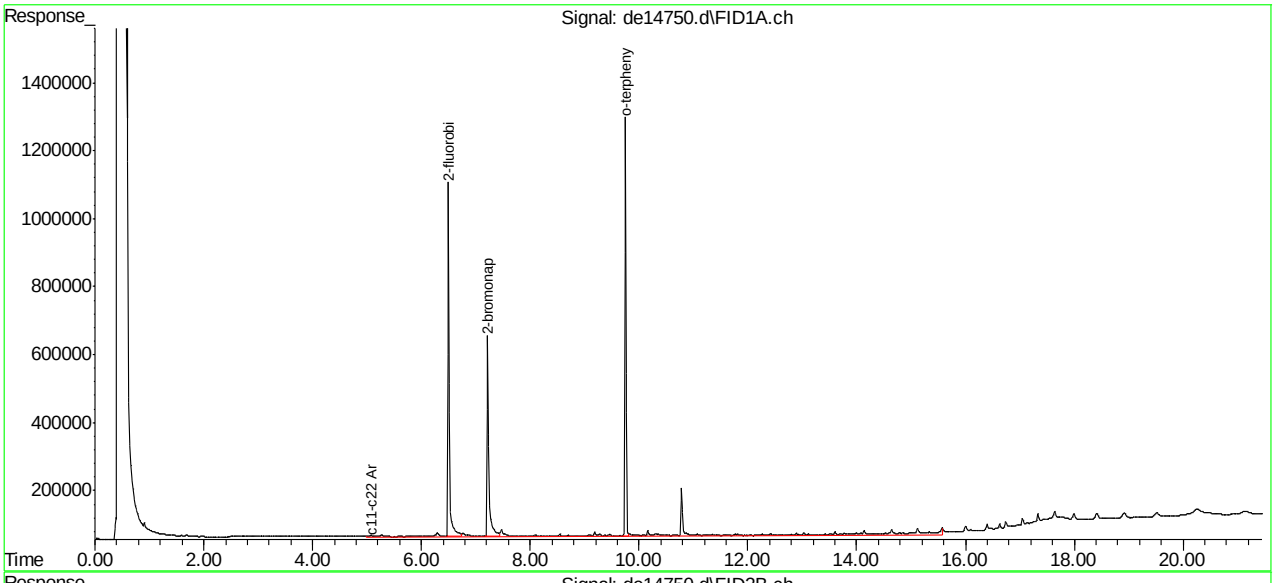
SGS ACCUTEST MC46487

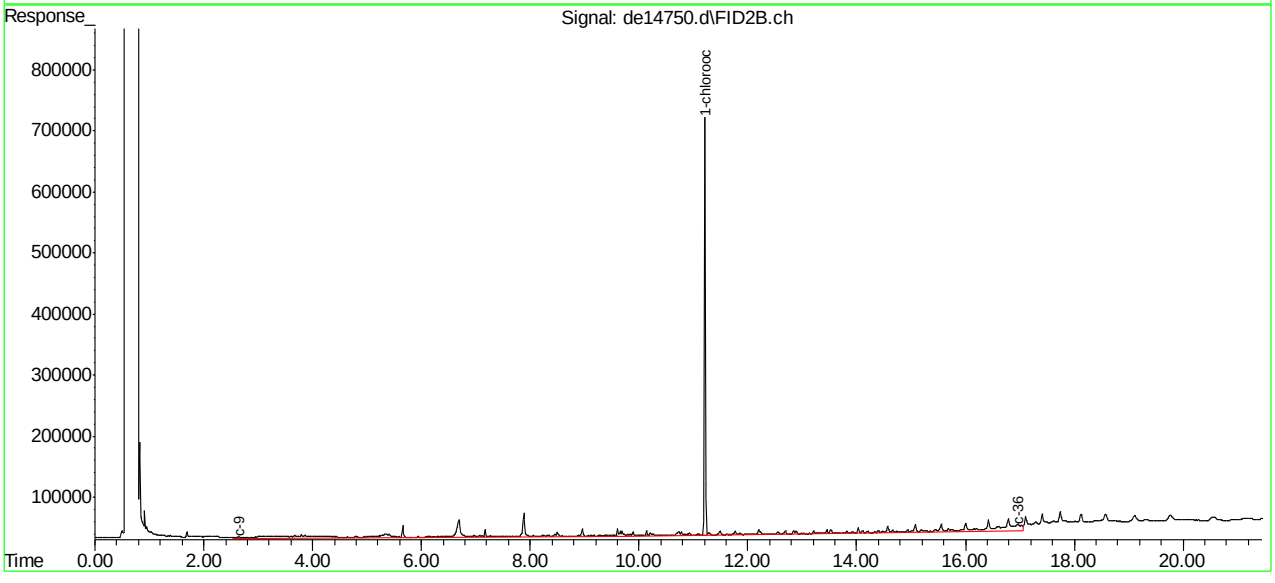
Quantitation Report (QT Reviewed)

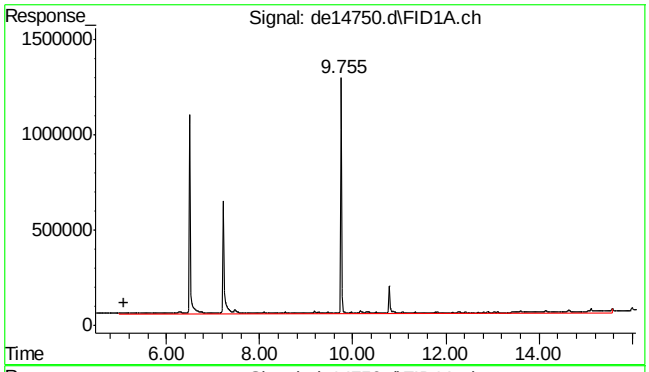
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14750.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:36 pm
Operator : thomasa
Sample : op47926-mb
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 6 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:55:18 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

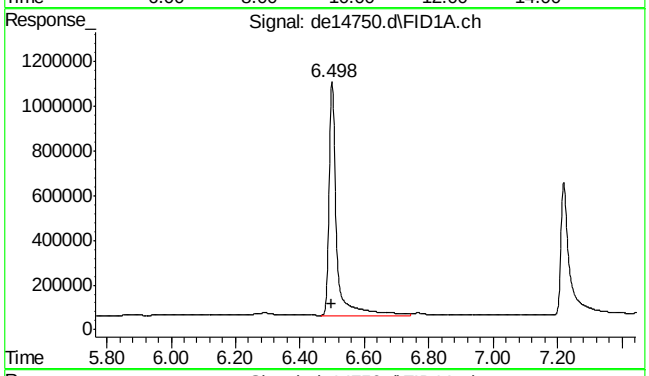




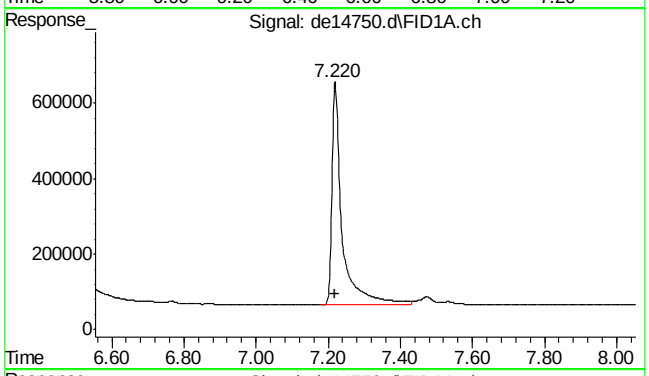

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 2006943
Conc: 16.09 µg/ml m



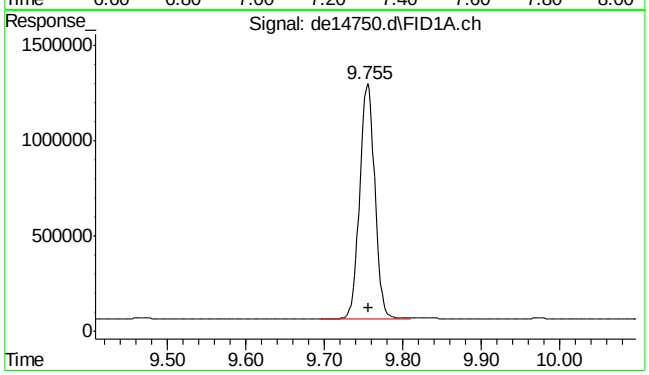

#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1717072
Conc: 15.00 µg/ml




#6 2-bromonaphthalene

R.T.: 7.220 min
Delta R.T.: 0.002 min
Response: 1167148
Conc: 16.28 µg/ml



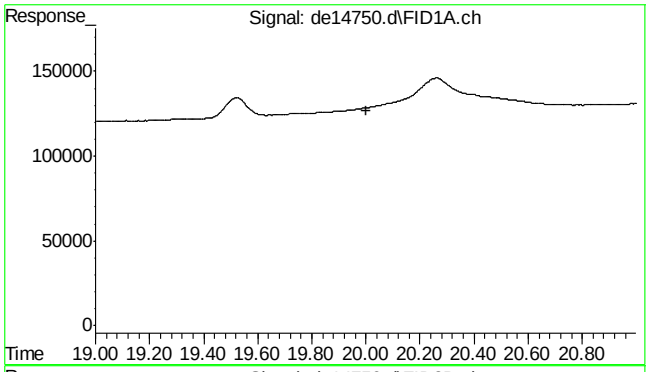

#11 o-terphenyl

R.T.: 9.755 min
Delta R.T.: -0.002 min
Response: 1659749
Conc: 12.54 µg/ml



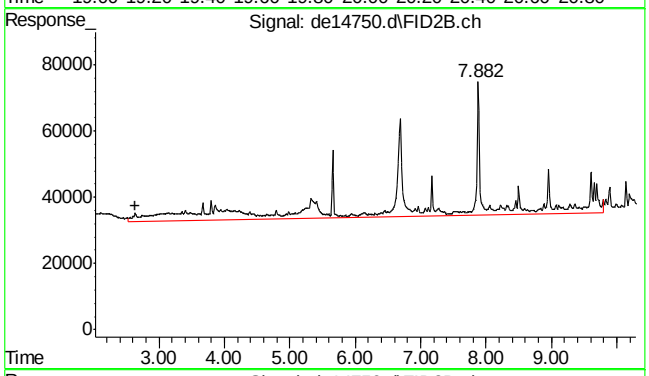


SGS ACCUTEST MC46487



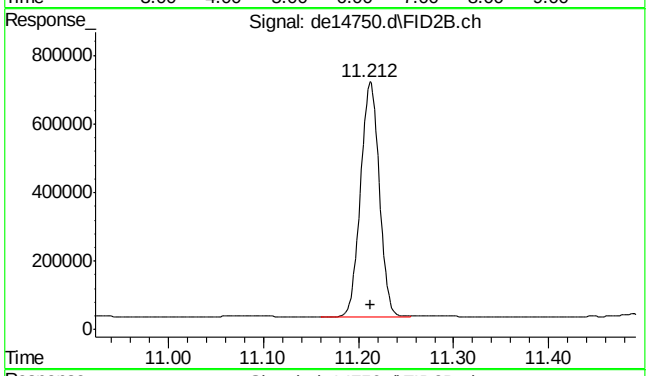

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



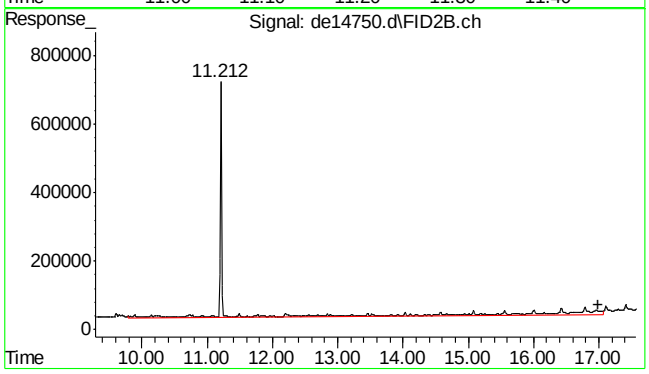

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 984630
Conc: 11.68 µg/ml m




#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 935665
Conc: 14.36 µg/ml




#41 c-36

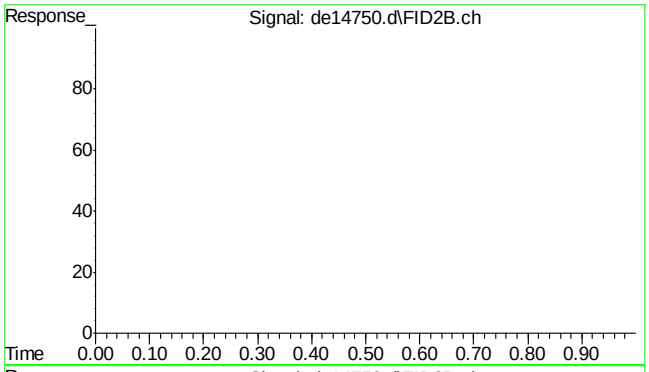
R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1226727
Conc: 15.76 µg/ml m

9.2.1

9

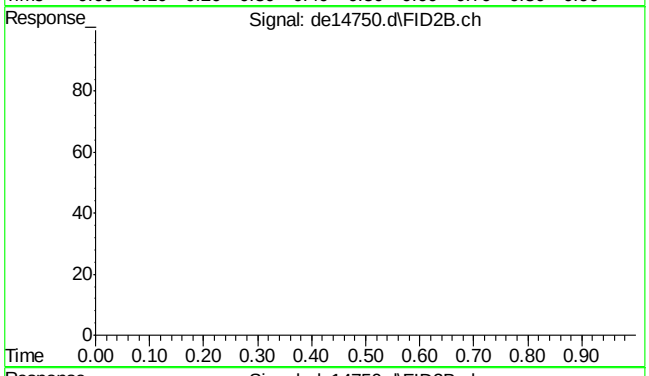


SGS ACCUTEST MC46487



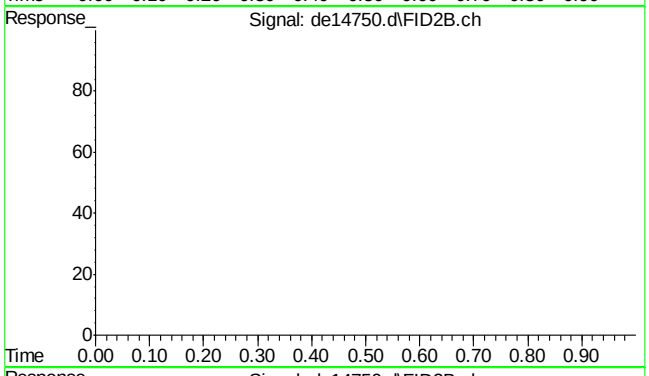

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



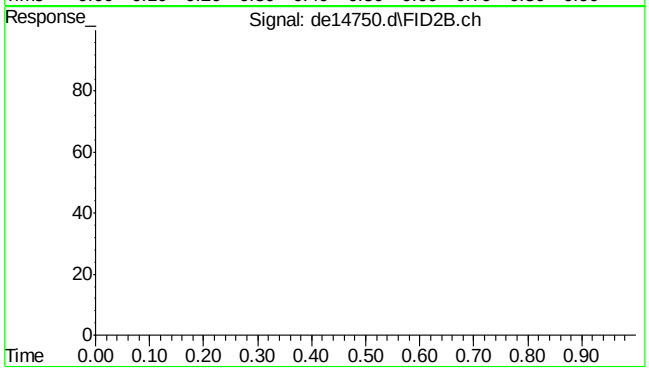

#43 bht

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 MC46487

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
06/29/16 12:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:57:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1842162 | 16.092 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 80.46%# | |
| 6) s 2-bromonaphthalene | 7.218 | 1172192 | 16.348 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 81.74%# | |
| 11) s o-terphenyl | 9.753 | 1916021 | 14.482 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 72.41%# | |
| 35) s 1-chlorooctadecane | 11.212 | 986418 | 15.140 µg/ml |
| Spiked Amount 20.000 Range 8 - 28 | | Recovery = 75.70%# | |
| **Target Compounds** | | | |
| 1) h c11-c22 Aromatics (Un... | 5.097 | 42089711 | 337.375 µg/mlm |
| 2) naphthalene | 5.045 | 1694689 | 13.500 µg/ml |
| 3) 2-methylnaphthalene | 5.943 | 1780306 | 14.113 µg/ml |
| 5) acenaphthylene | 7.050 | 1937814 | 15.316 µg/ml |
| 7) acenaphthene | 7.290 | 2231446 | 16.021 µg/ml |
| 8) fluorene | 7.935 | 2100153 | 16.348 µg/ml |
| 9) phenanthrene | 9.108 | 2199000 | 17.604 µg/ml |
| 10) anthracene | 9.165 | 2390398 | 17.968 µg/ml |
| 12) fluoranthene | 10.605 | 2397458 | 18.692 µg/ml |
| 13) pyrene | 10.860 | 2426614 | 18.476 µg/ml |
| 14) benzo(a)anthracene | 12.420 | 2384379 | 19.627 µg/mlm |
| 15) chrysene | 12.467 | 2461758 | 19.285 µg/mlm |
| 16) benzo(B)fluoranthene | 13.713 | 2299763 | 19.424 µg/mlm |
| 17) benzo(k)fluoranthene | 13.738 | 2522853 | 19.705 µg/mlm |
| 18) benzo(a)pyrene | 14.042 | 2364262 | 20.043 µg/ml |
| 19) indeno(1,2,3-cd)pyrene | 15.180 | 2366208 | 20.216 µg/ml |
| 20) dibenzo(ah)anthracene | 15.223 | 2352355 | 20.761 µg/ml |
| 21) benzo(ghi)perylene | 15.398 | 2340792 | 20.628 µg/ml |
| 25) h c-9 | 2.647 | 907896 | 10.769 µg/mlm |
| 26) h c-10 | 3.800 | 1227271 | 14.557 µg/ml |
| 28) c-12 | 5.653 | 1488479 | 17.656 µg/ml |
| 30) c-14 | 7.170 | 1630088 | 19.335 µg/ml |
| 31) c-16 | 8.498 | 1716123 | 20.356 µg/ml |
| 32) c-18 | 9.693 | 1824471 | 21.641 µg/ml |
| 33) c-19 | 10.248 | 1831545 | 23.534 µg/ml |
| 34) c-20 | 10.778 | 1866275 | 23.981 µg/ml |
| 36) c-22 | 11.773 | 1861595 | 23.921 µg/ml |
| 37) c-24 | 12.692 | 1825137 | 23.452 µg/ml |
| 38) c-26 | 13.542 | 1783364 | 22.915 µg/ml |
| 39) c-28 | 14.335 | 1757054 | 22.577 µg/ml |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:57:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 1729444 | 22.222 µg/ml |
| 41) h c-36 | 16.983 | 1448604 | 18.614 µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

9.3.1

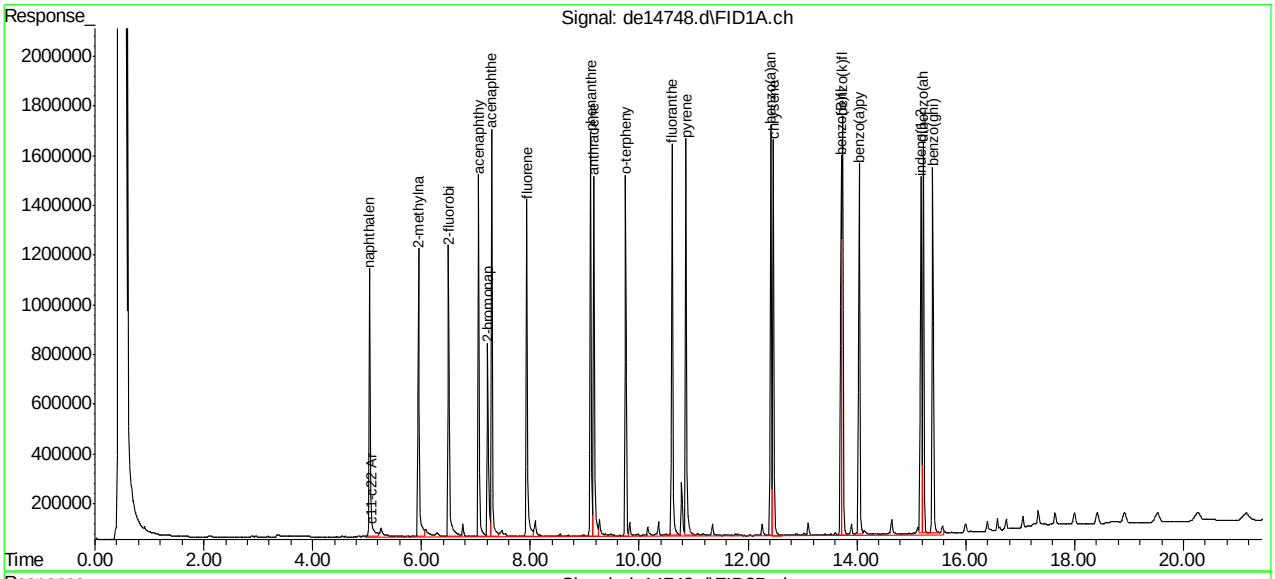
9

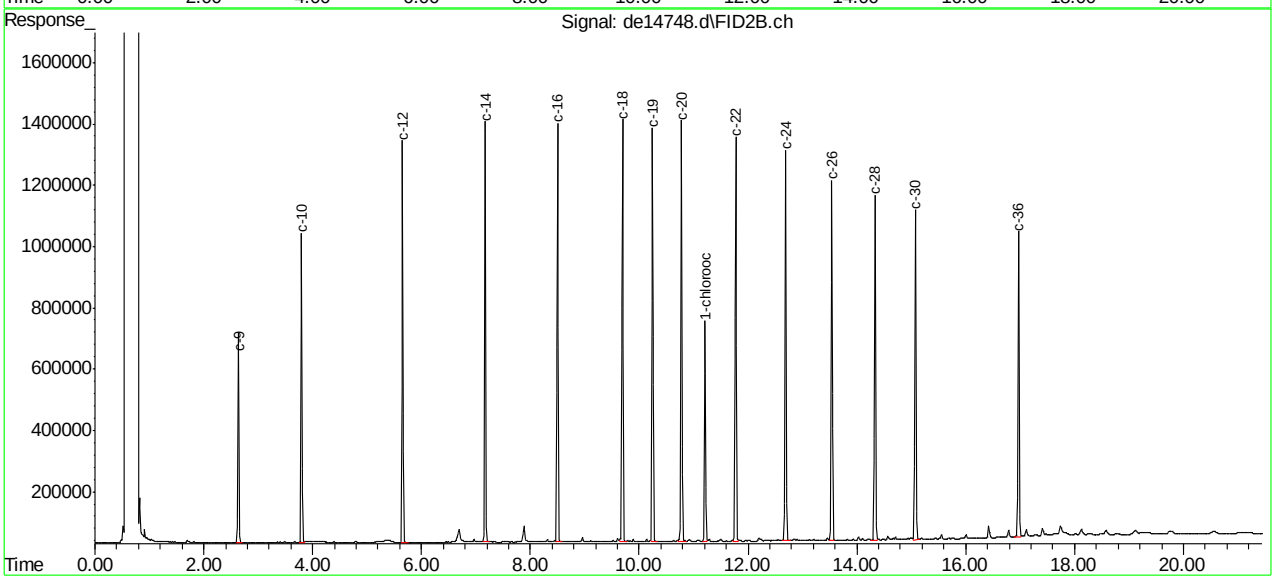
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:57:55 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



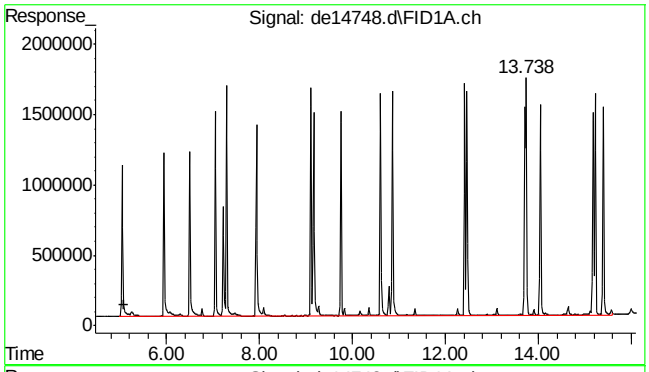







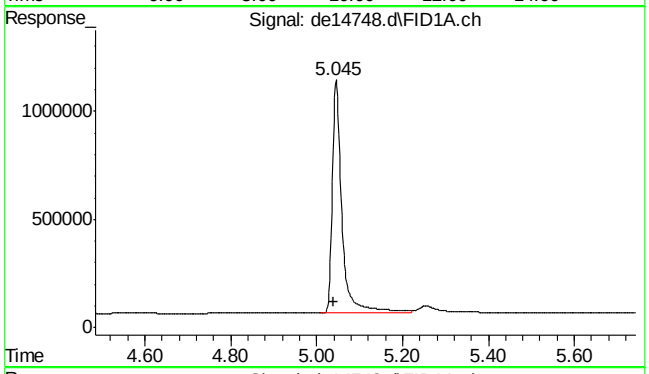



SGS ACCUTEST MC46487



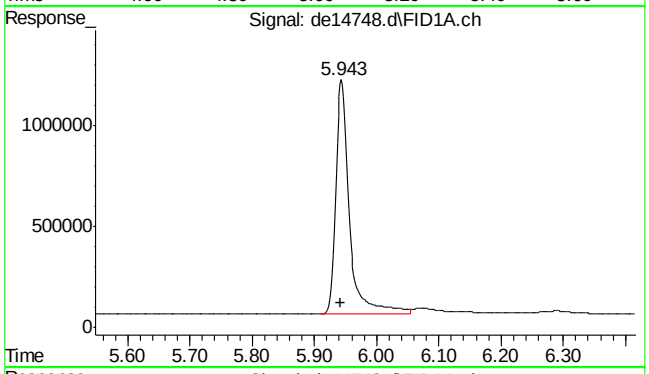

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 42089711
Conc: 337.37 µg/ml m



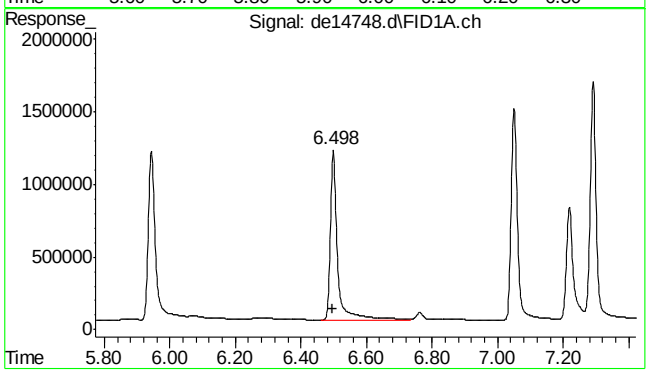

#2 naphthalene

R.T.: 5.045 min
Delta R.T.: 0.005 min
Response: 1694689
Conc: 13.50 µg/ml




#3 2-methylnaphthalene

R.T.: 5.943 min
Delta R.T.: 0.002 min
Response: 1780306
Conc: 14.11 µg/ml




#4 2-fluorobiphenyl

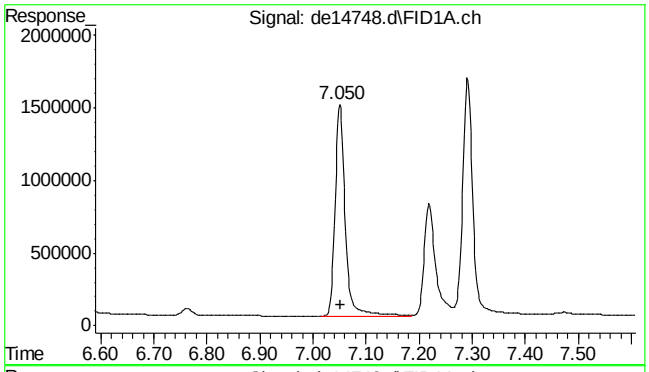
R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1842162
Conc: 16.09 µg/ml

9.3.1

9

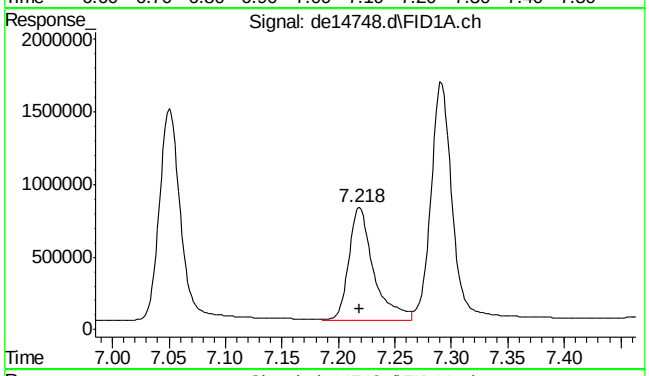


SGS ACCUTEST MC46487



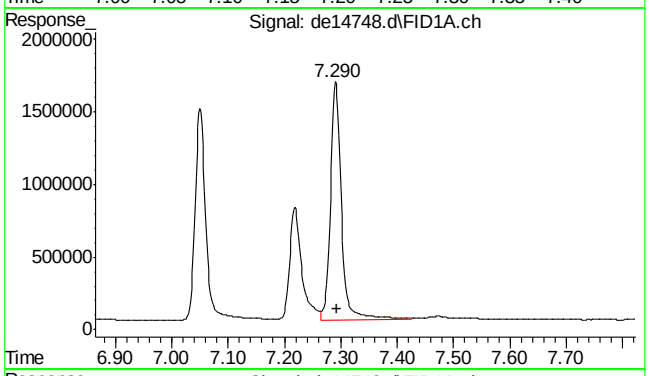

#5 acenaphthylene

R.T.: 7.050 min
Delta R.T.: -0.002 min
Response: 1937814
Conc: 15.32 µg/ml



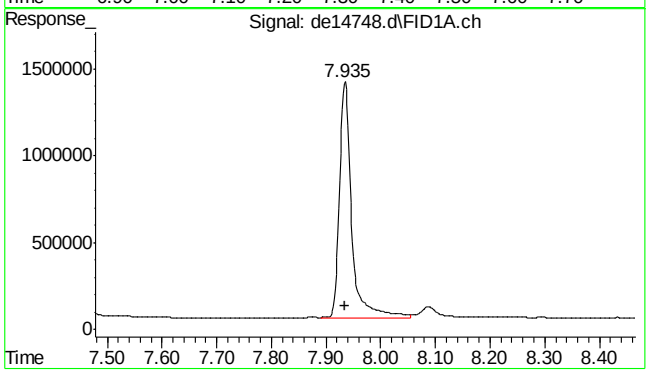

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1172192
Conc: 16.35 µg/ml




#7 acenaphthene

R.T.: 7.290 min
Delta R.T.: -0.003 min
Response: 2231446
Conc: 16.02 µg/ml




#8 fluorene

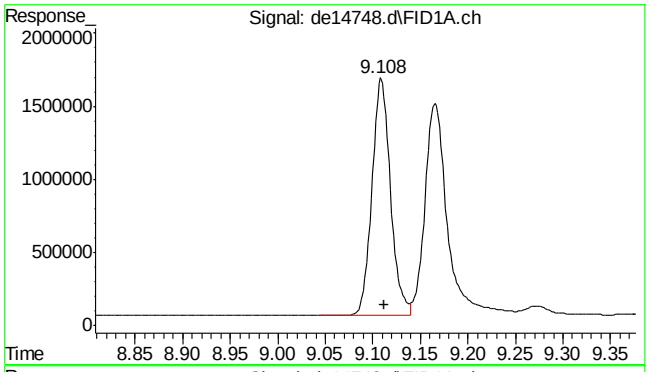
R.T.: 7.935 min
Delta R.T.: 0.000 min
Response: 2100153
Conc: 16.35 µg/ml

9.3.1

9

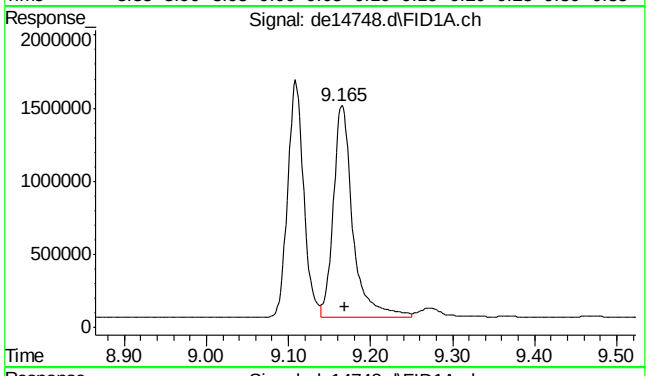


SGS ACCUTEST MC46487



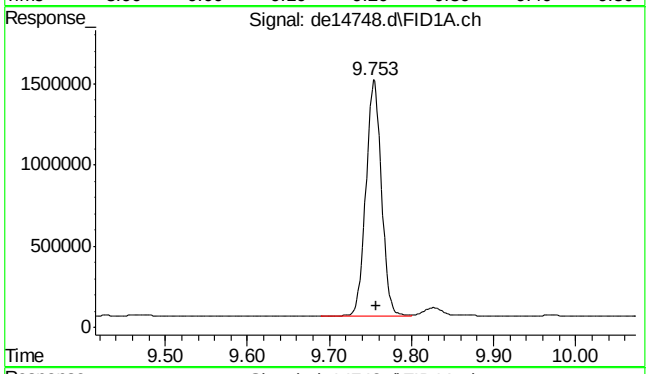

#9 phenanthrene

R.T.: 9.108 min
Delta R.T.: -0.003 min
Response: 2199000
Conc: 17.60 µg/ml



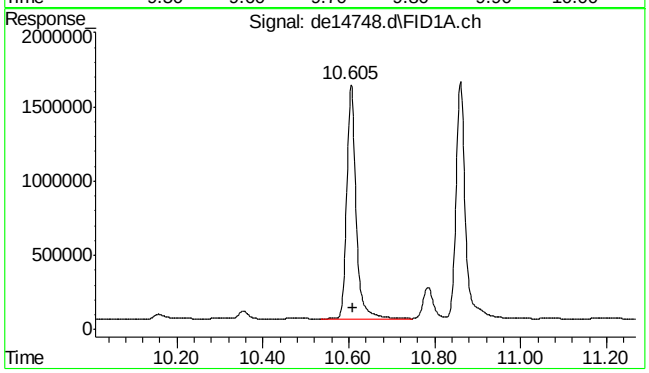

#10 anthracene

R.T.: 9.165 min
Delta R.T.: -0.003 min
Response: 2390398
Conc: 17.97 µg/ml




#11 o-terphenyl

R.T.: 9.753 min
Delta R.T.: -0.003 min
Response: 1916021
Conc: 14.48 µg/ml



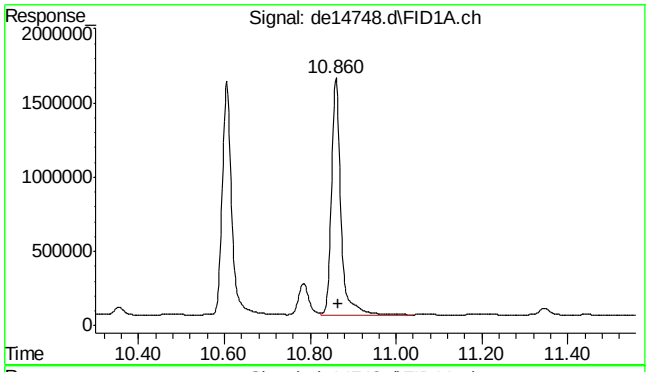

#12 fluoranthene

R.T.: 10.605 min
Delta R.T.: -0.005 min
Response: 2397458
Conc: 18.69 µg/ml



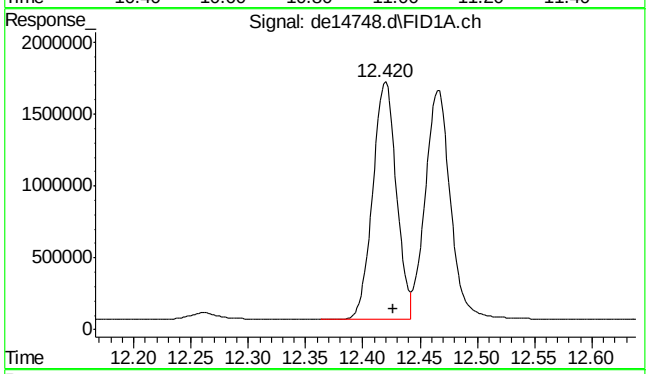


SGS ACCUTEST MC46487



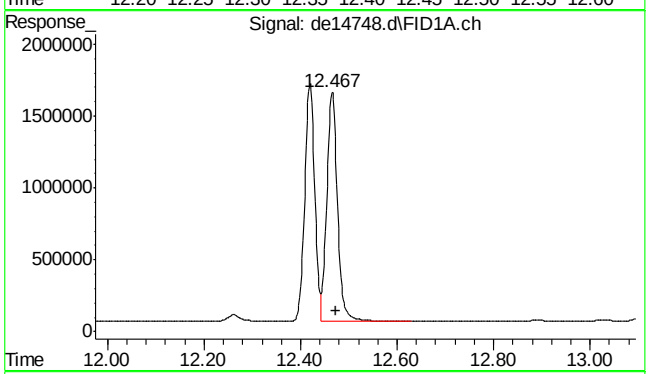

#13 pyrene

R.T.: 10.860 min
Delta R.T.: -0.005 min
Response: 2426614
Conc: 18.48 µg/ml



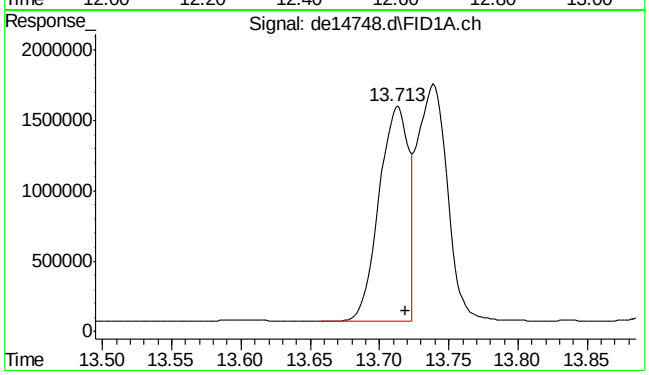

#14 benzo(a)anthracene

R.T.: 12.420 min
Delta R.T.: -0.007 min
Response: 2384379
Conc: 19.63 µg/ml m




#15 chrysene

R.T.: 12.467 min
Delta R.T.: -0.007 min
Response: 2461758
Conc: 19.29 µg/ml m



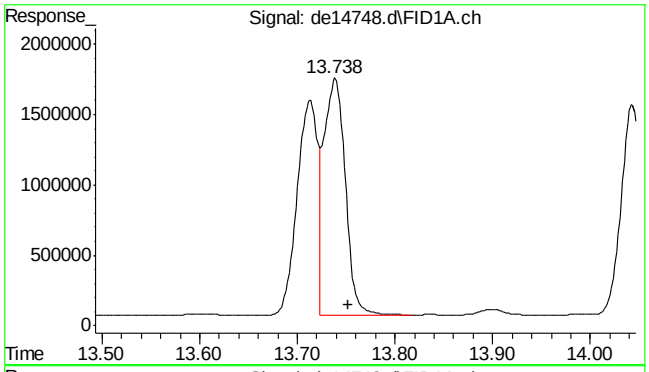

#16 benzo(B)fluoranthene

R.T.: 13.713 min
Delta R.T.: -0.005 min
Response: 2299763
Conc: 19.42 µg/ml m



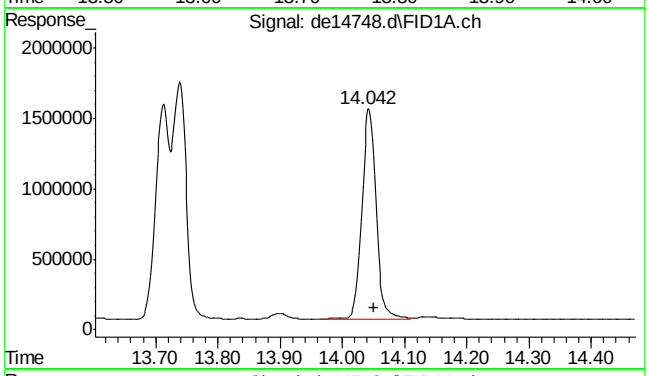


SGS ACCUTEST MC46487



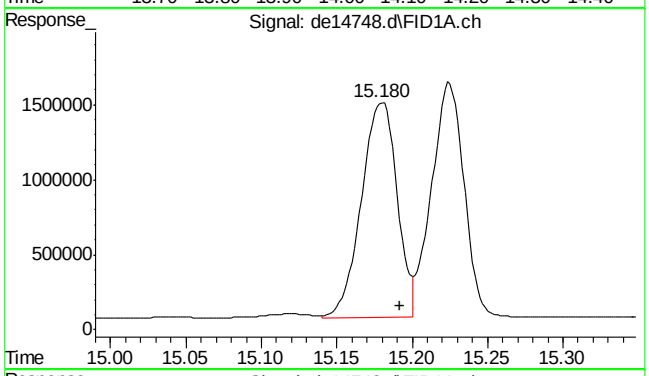

#17 benzo(k)fluoranthene

R.T.: 13.738 min
Delta R.T.: -0.013 min
Response: 2522853
Conc: 19.71 µg/ml m



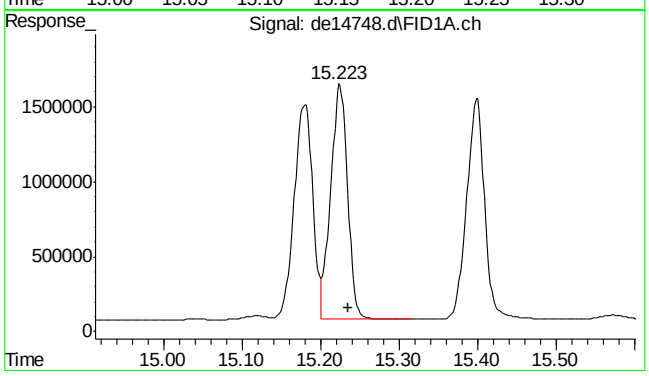

#18 benzo(a)pyrene

R.T.: 14.042 min
Delta R.T.: -0.010 min
Response: 2364262
Conc: 20.04 µg/ml




#19 indeno(1,2,3-cd)pyrene

R.T.: 15.180 min
Delta R.T.: -0.012 min
Response: 2366208
Conc: 20.22 µg/ml




#20 dibenzo(ah)anthracene

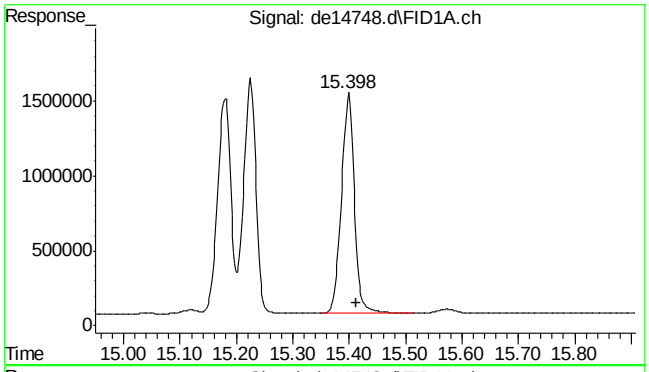
R.T.: 15.223 min
Delta R.T.: -0.012 min
Response: 2352355
Conc: 20.76 µg/ml

9.3.1

9

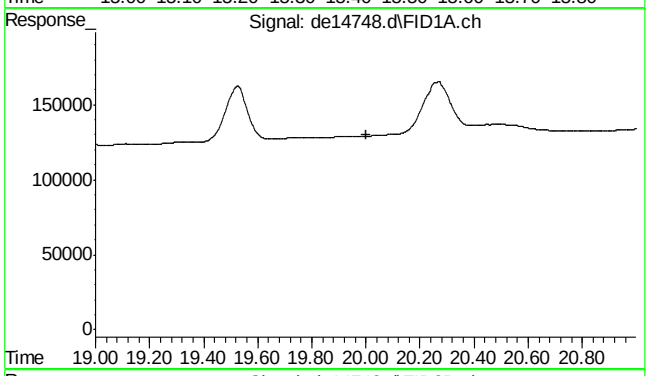


SGS ACCUTEST MC46487



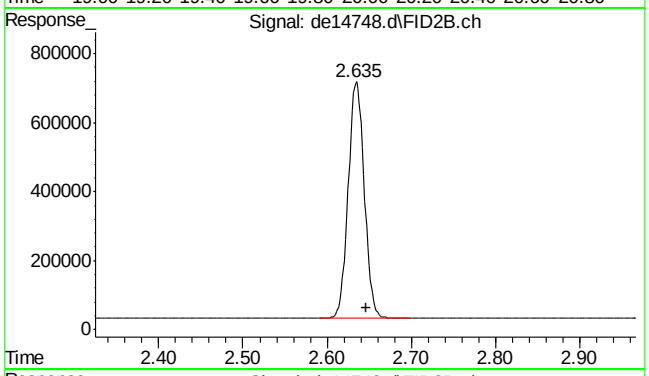

#21 benzo(ghi)perylene

R.T.: 15.398 min
Delta R.T.: -0.013 min
Response: 2340792
Conc: 20.63 µg/ml



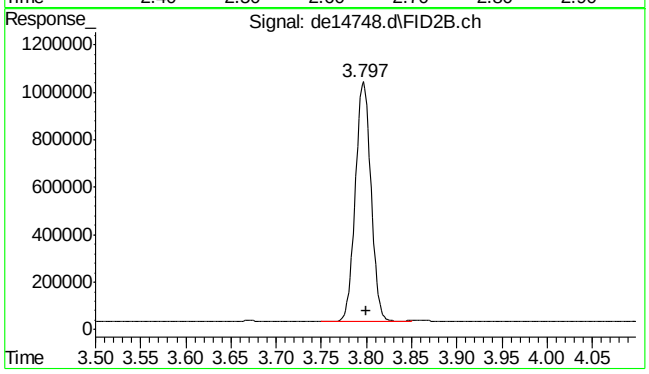

#22 bht

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: 907896
Conc: 10.77 µg/ml m




#26 c-10

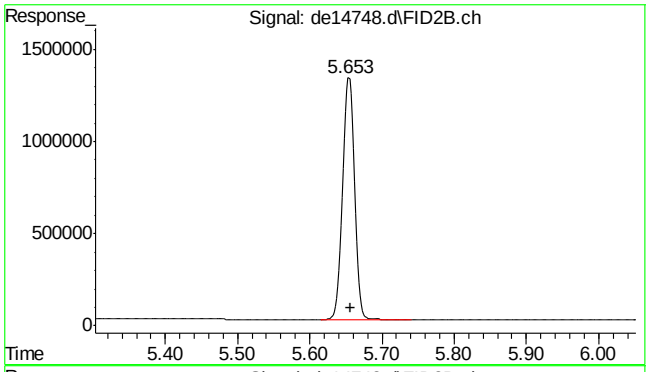
R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 1227271
Conc: 14.56 µg/ml

9.3.1

9

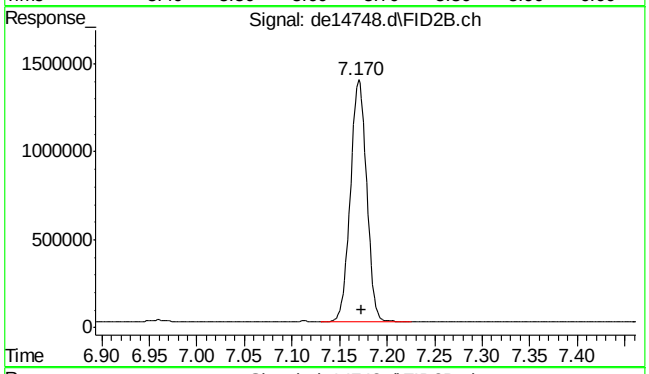


SGS ACCUTEST MC46487



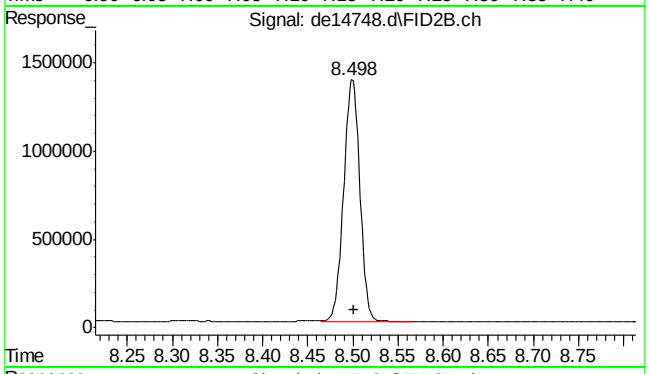

#28 c-12

R.T.: 5.653 min
Delta R.T.: -0.003 min
Response: 1488479
Conc: 17.66 µg/ml



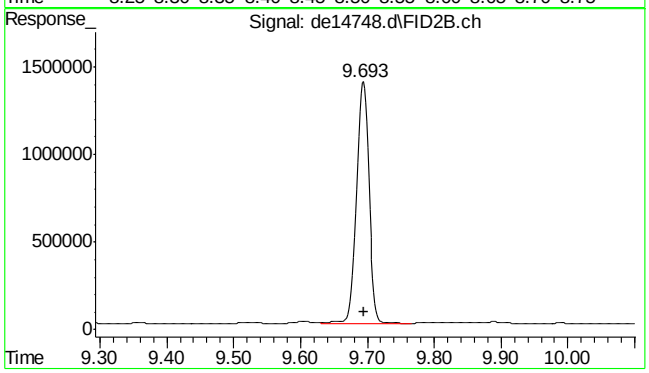

#30 c-14

R.T.: 7.170 min
Delta R.T.: -0.003 min
Response: 1630088
Conc: 19.34 µg/ml




#31 c-16

R.T.: 8.498 min
Delta R.T.: -0.003 min
Response: 1716123
Conc: 20.36 µg/ml




#32 c-18

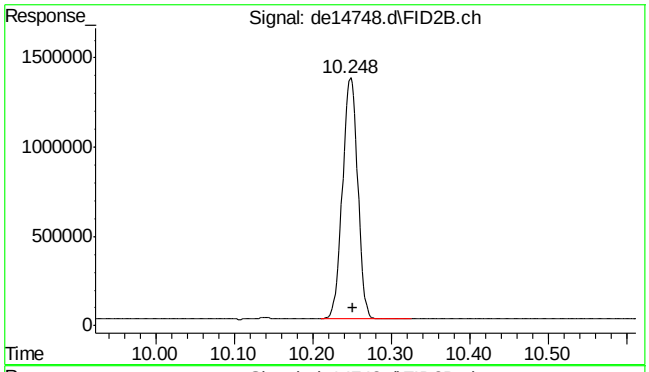
R.T.: 9.693 min
Delta R.T.: -0.002 min
Response: 1824471
Conc: 21.64 µg/ml

9.3.1

9

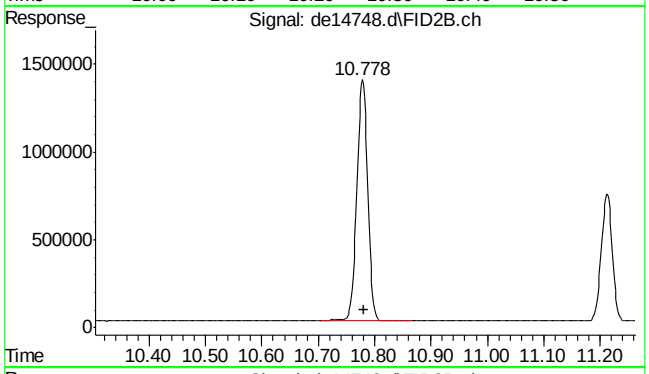


SGS ACCUTEST MC46487



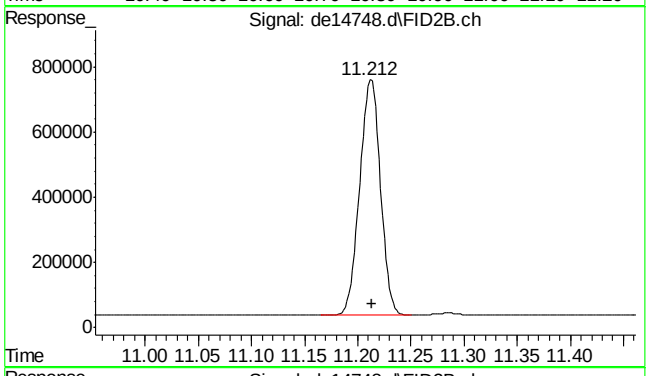

#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.003 min
Response: 1831545
Conc: 23.53 µg/ml



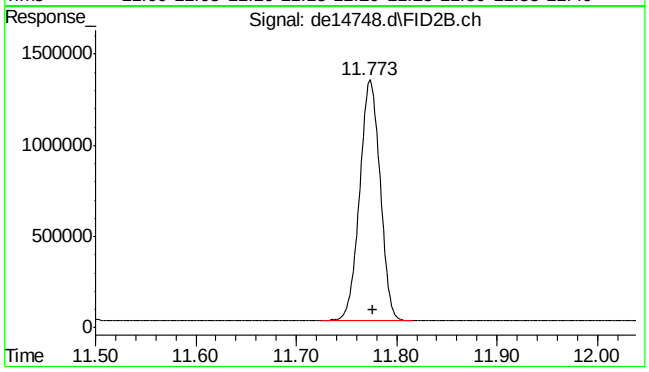

#34 c-20

R.T.: 10.778 min
Delta R.T.: -0.003 min
Response: 1866275
Conc: 23.98 µg/ml




#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 986418
Conc: 15.14 µg/ml



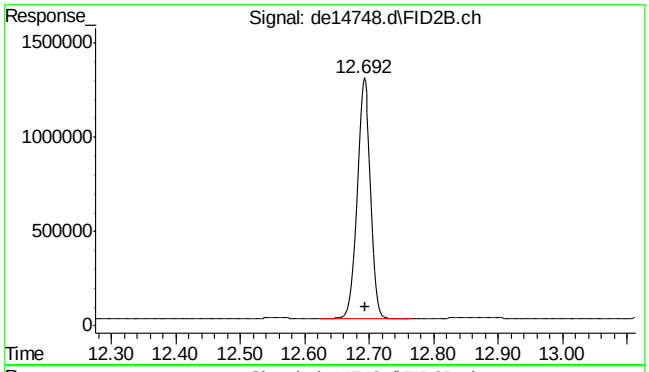

#36 c-22

R.T.: 11.773 min
Delta R.T.: -0.003 min
Response: 1861595
Conc: 23.92 µg/ml



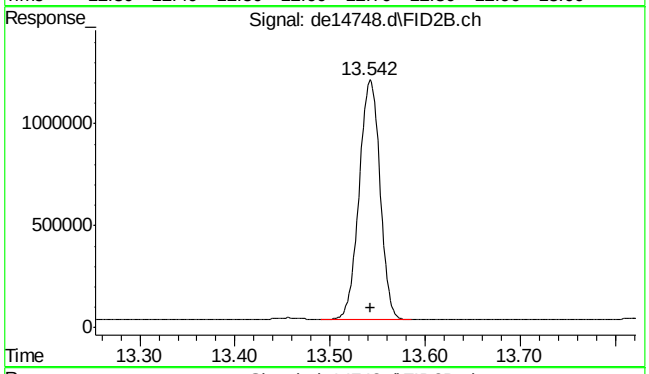


SGS ACCUTEST MC46487



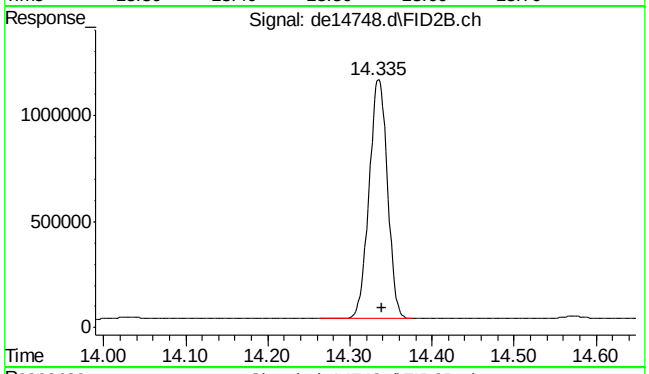

#37 c-24

R.T.: 12.692 min
Delta R.T.: -0.002 min
Response: 1825137
Conc: 23.45 µg/ml



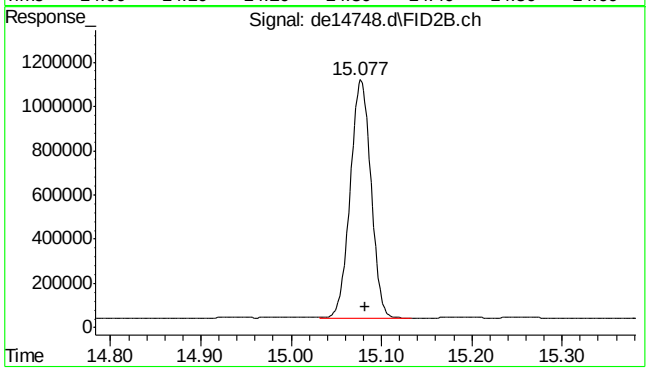

#38 c-26

R.T.: 13.542 min
Delta R.T.: -0.002 min
Response: 1783364
Conc: 22.92 µg/ml




#39 c-28

R.T.: 14.335 min
Delta R.T.: -0.003 min
Response: 1757054
Conc: 22.58 µg/ml



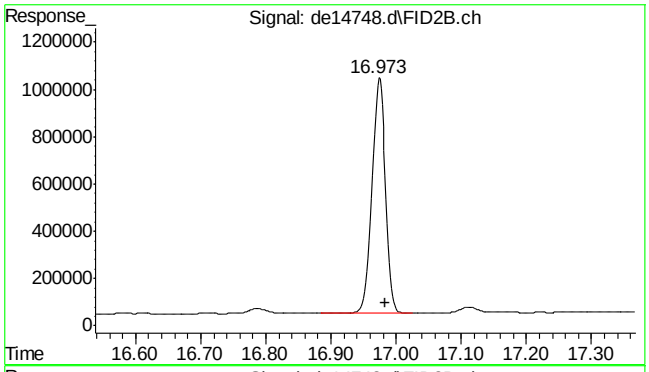

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1729444
Conc: 22.22 µg/ml



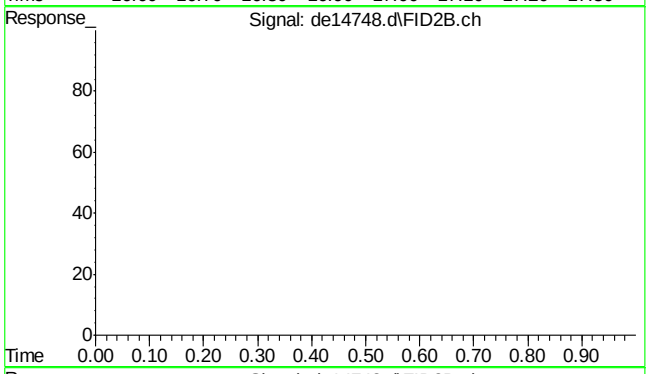


SGS ACCUTEST MC46487



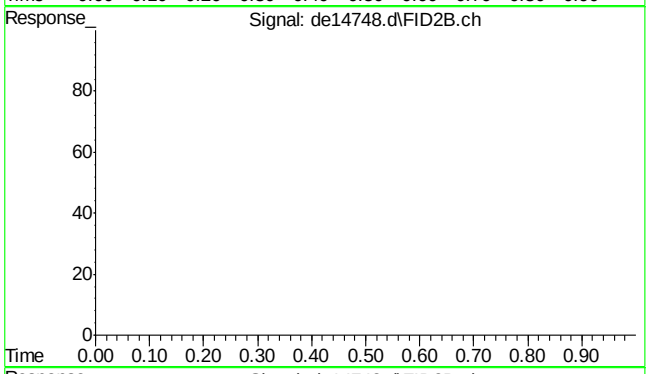

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1448604
Conc: 18.61 µg/ml m



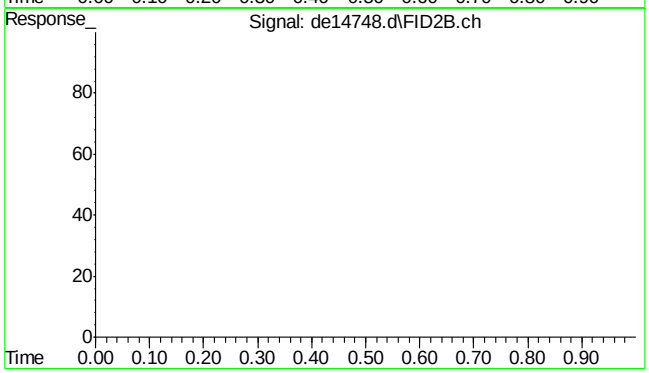

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



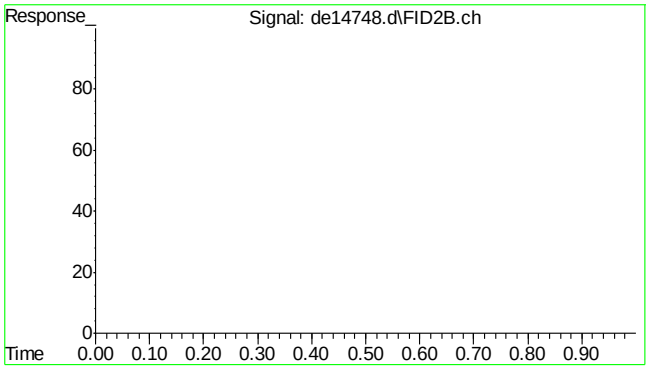

#43 bht

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.




#45 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

9.3.1

9



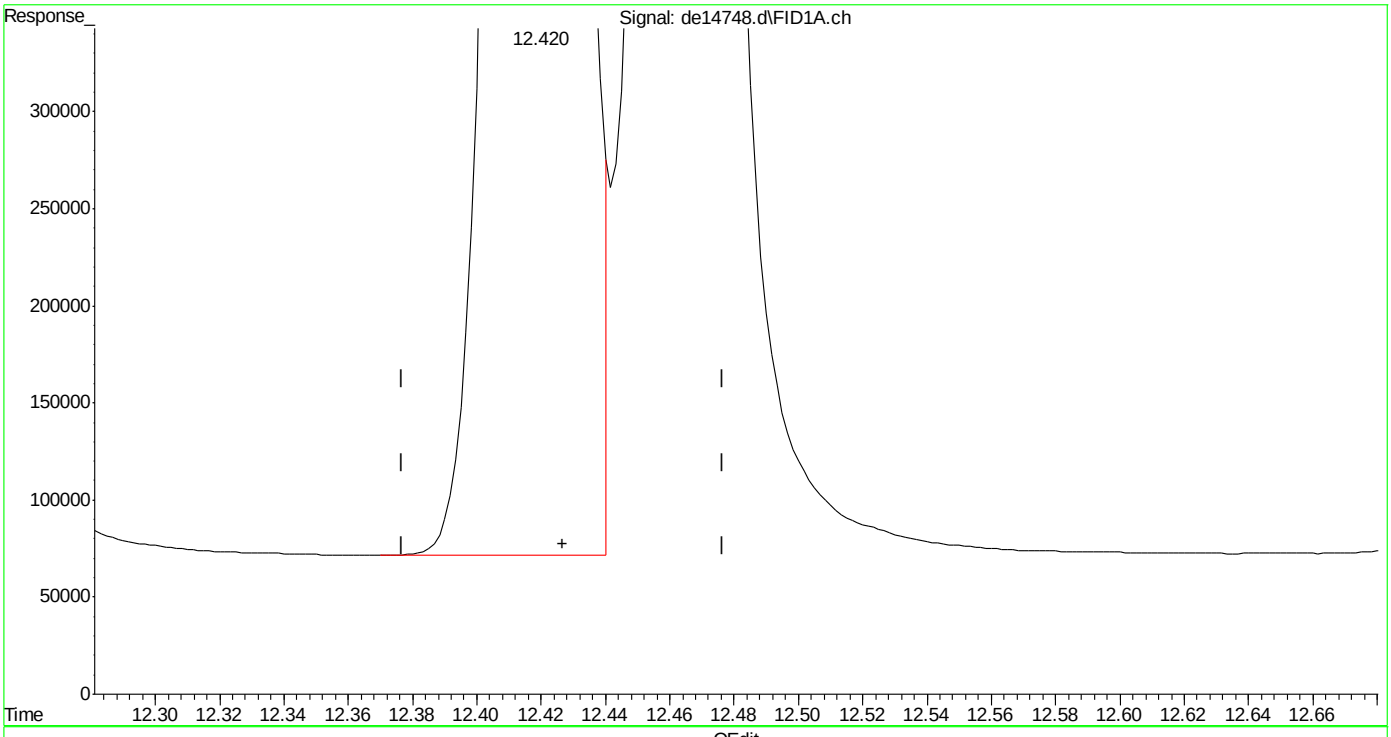
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   4:41 pm
Operator  : thomasa
Sample    : op47926-bs
Misc      : op47926,gde819,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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

12.420min 19.470 µg/ml

response 2365262

(+) = Expected Retention Time

EPH160628W.M Wed Jun 29 07:56:02 2016



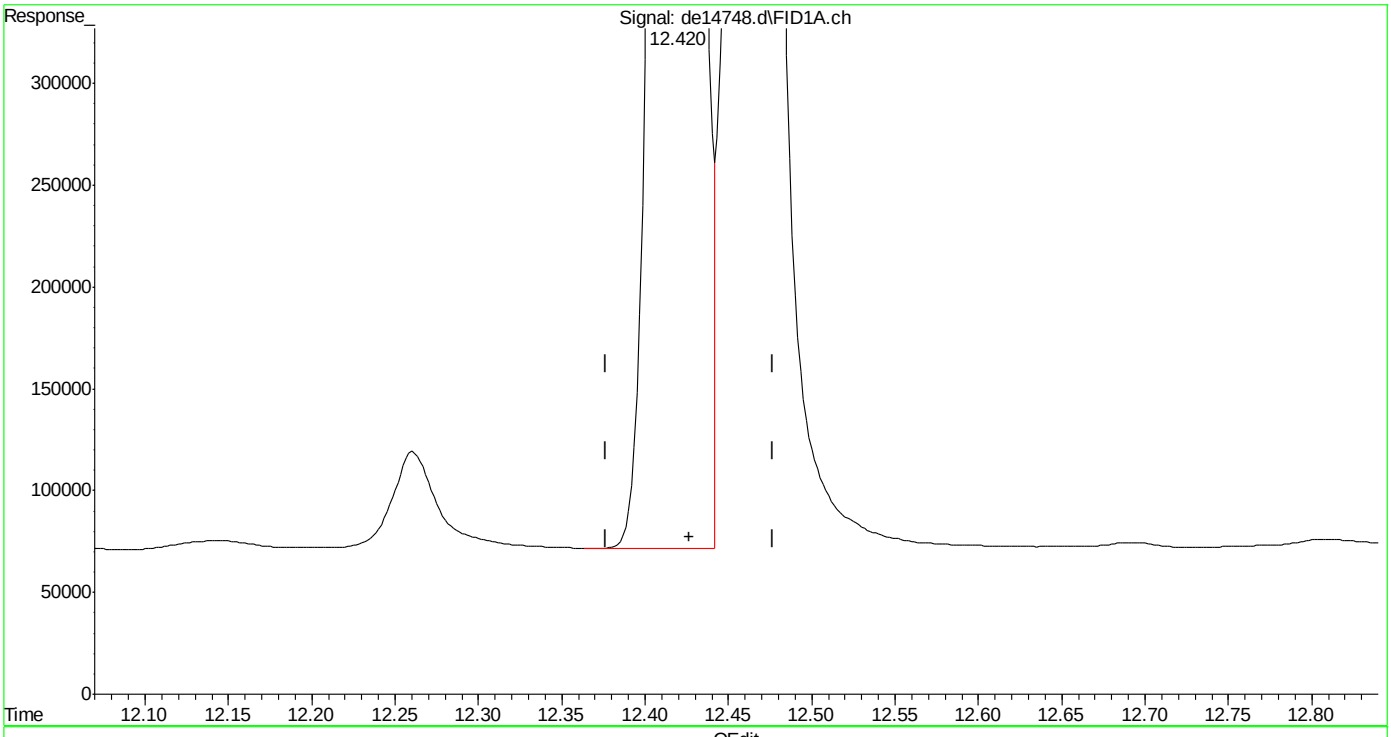
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   4:41 pm
Operator  : thomasa
Sample    : op47926-bs
Misc      : op47926,gde819,1000,,,2,,w
ALS Vial  : 2   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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

12.420min 19.627 µg/ml m

response 2384379

(+) = Expected Retention Time

EPH160628W.M Wed Jun 29 07:56:19 2016





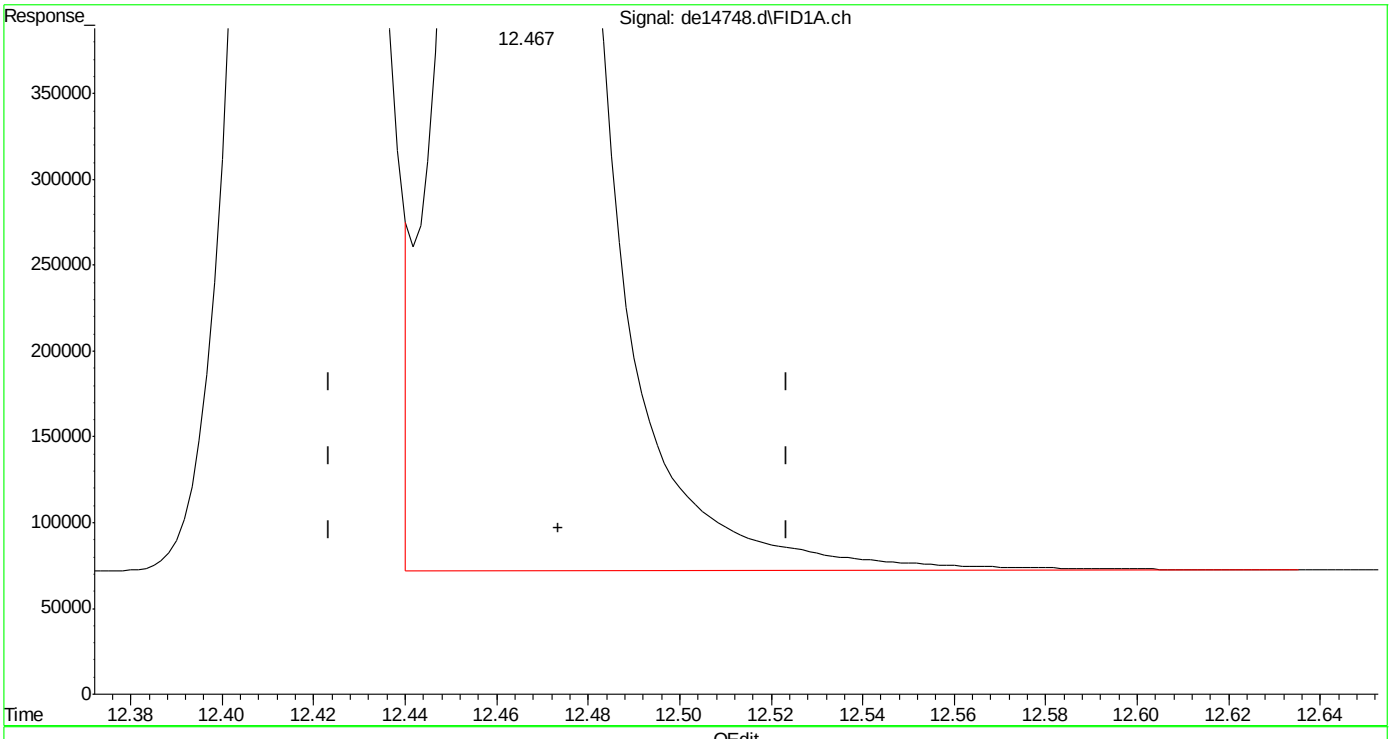
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(15) chrysene
12.467min 19.381 µg/ml
response 2474021

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:56:28 2016





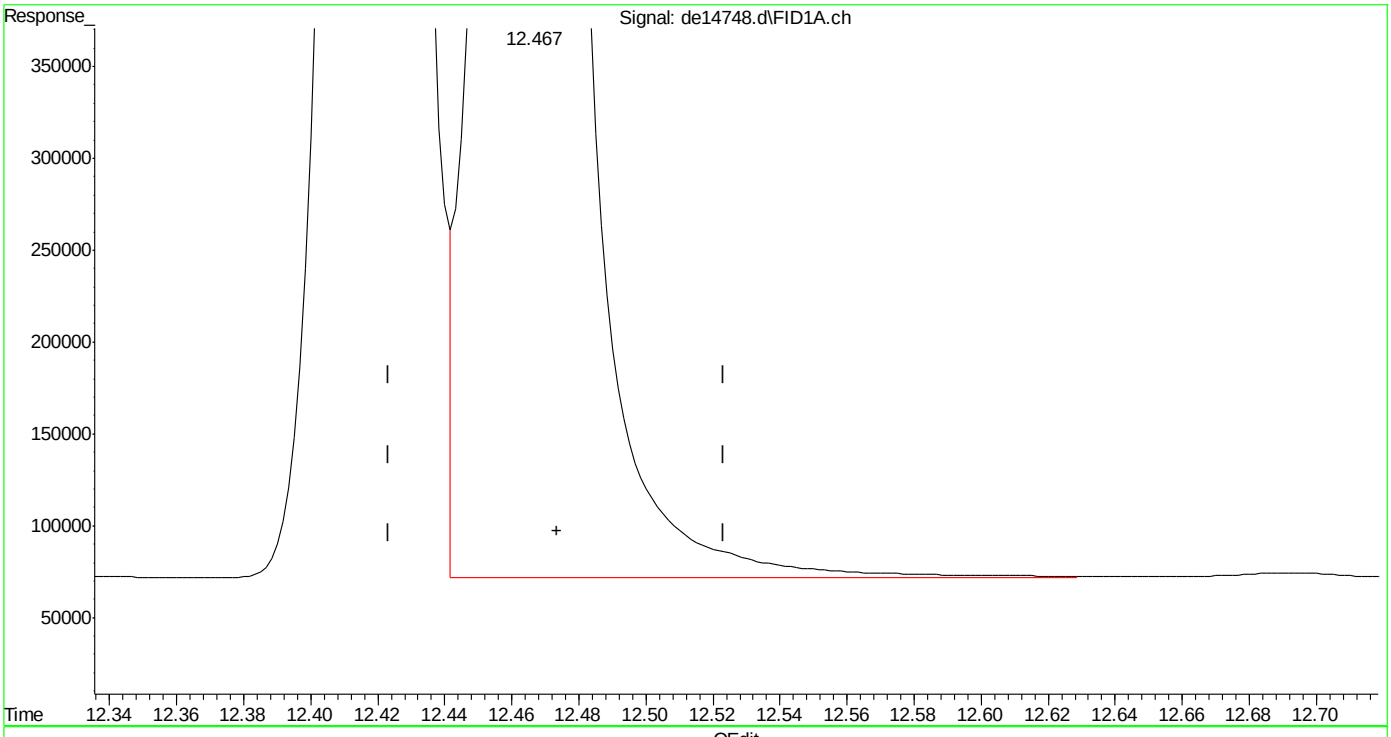
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase :  Signal #2 Phase:
Signal #1 Info :  Signal #2 Info :




(15) chrysene
12.467min 19.285 µg/ml m
response 2461758

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:56:44 2016





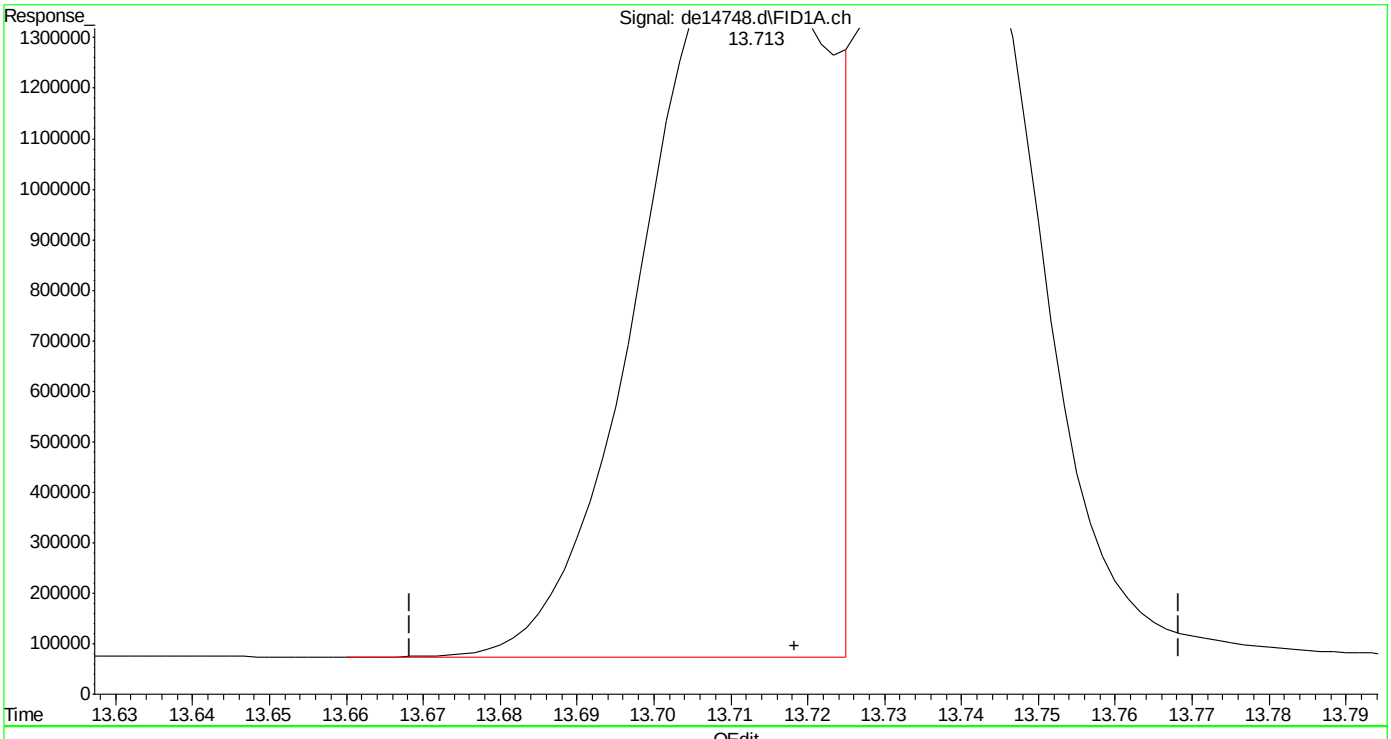
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 20.428 µg/ml
response 2418562

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:56:49 2016





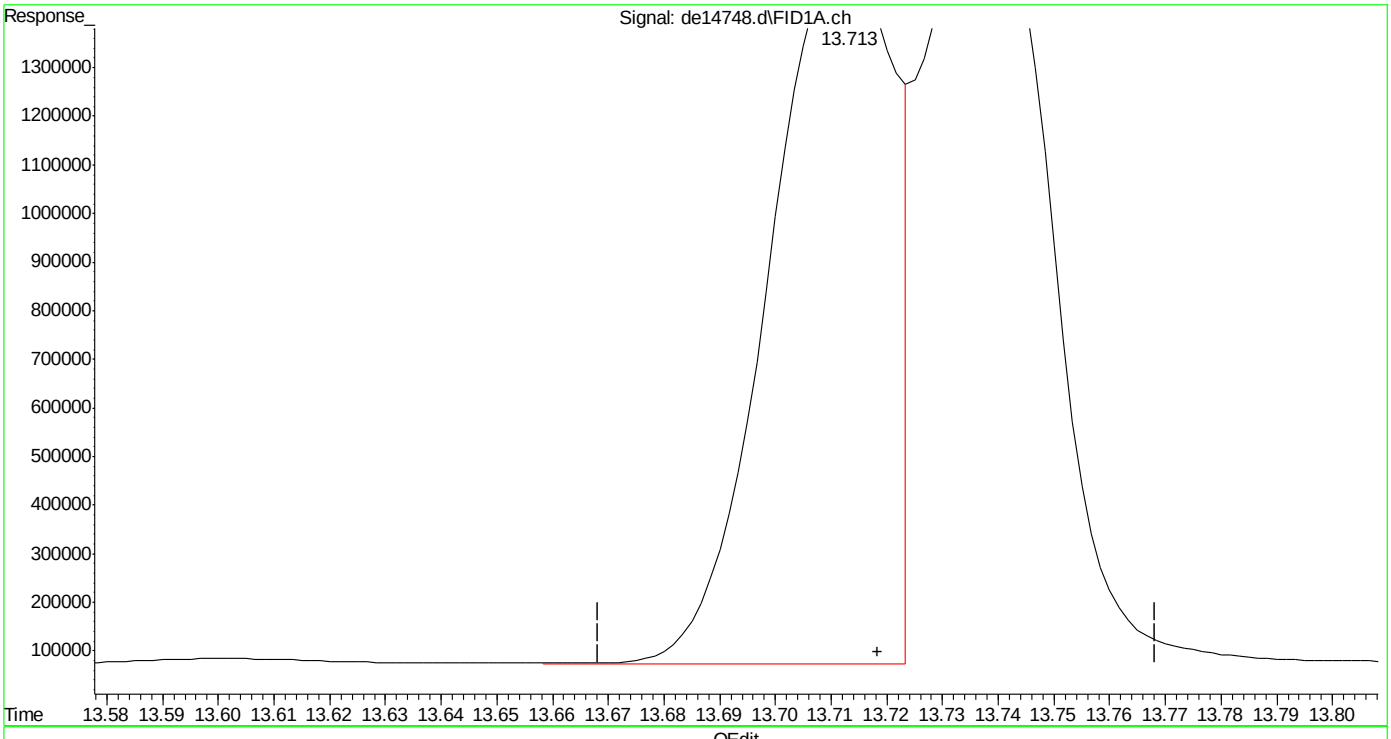
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 19.424 µg/ml m
response 2299763

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:57:04 2016







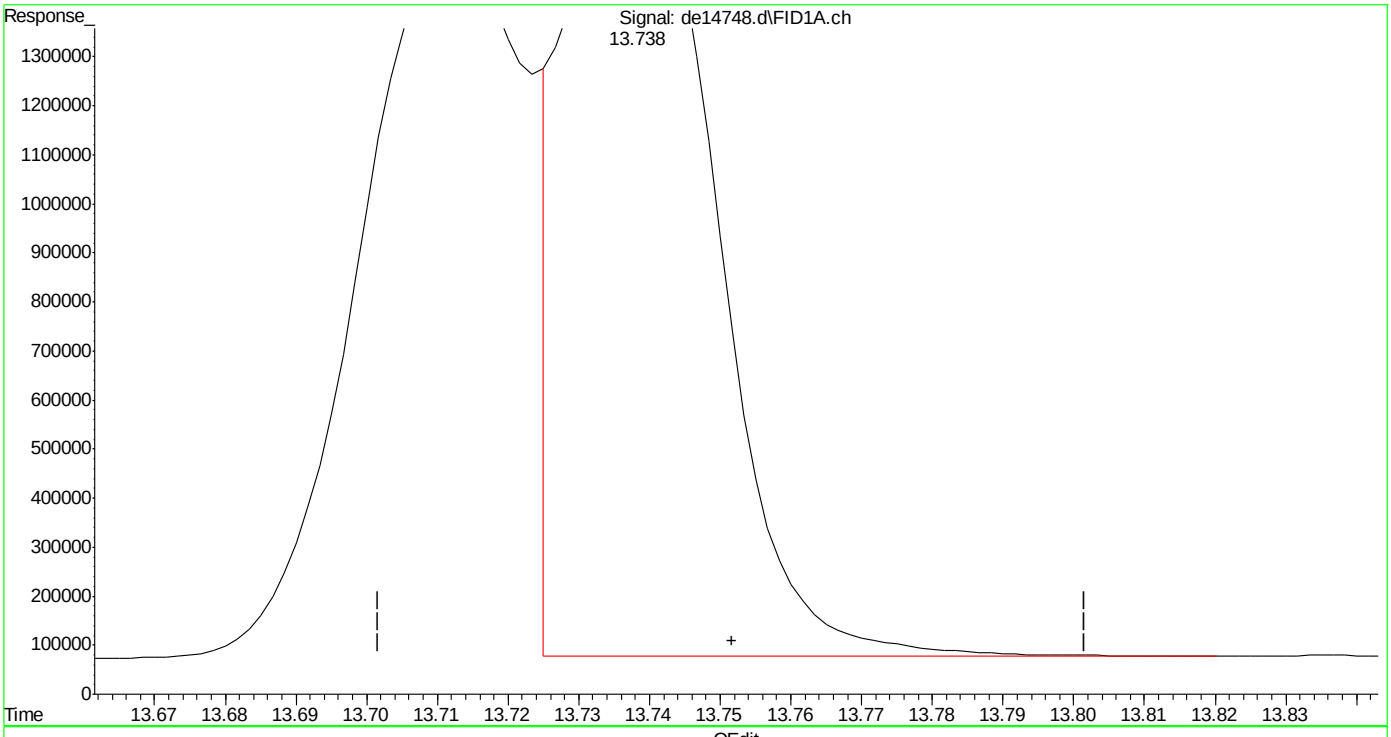
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
13.738min 18.623 µg/ml
response 2384318

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:57:09 2016





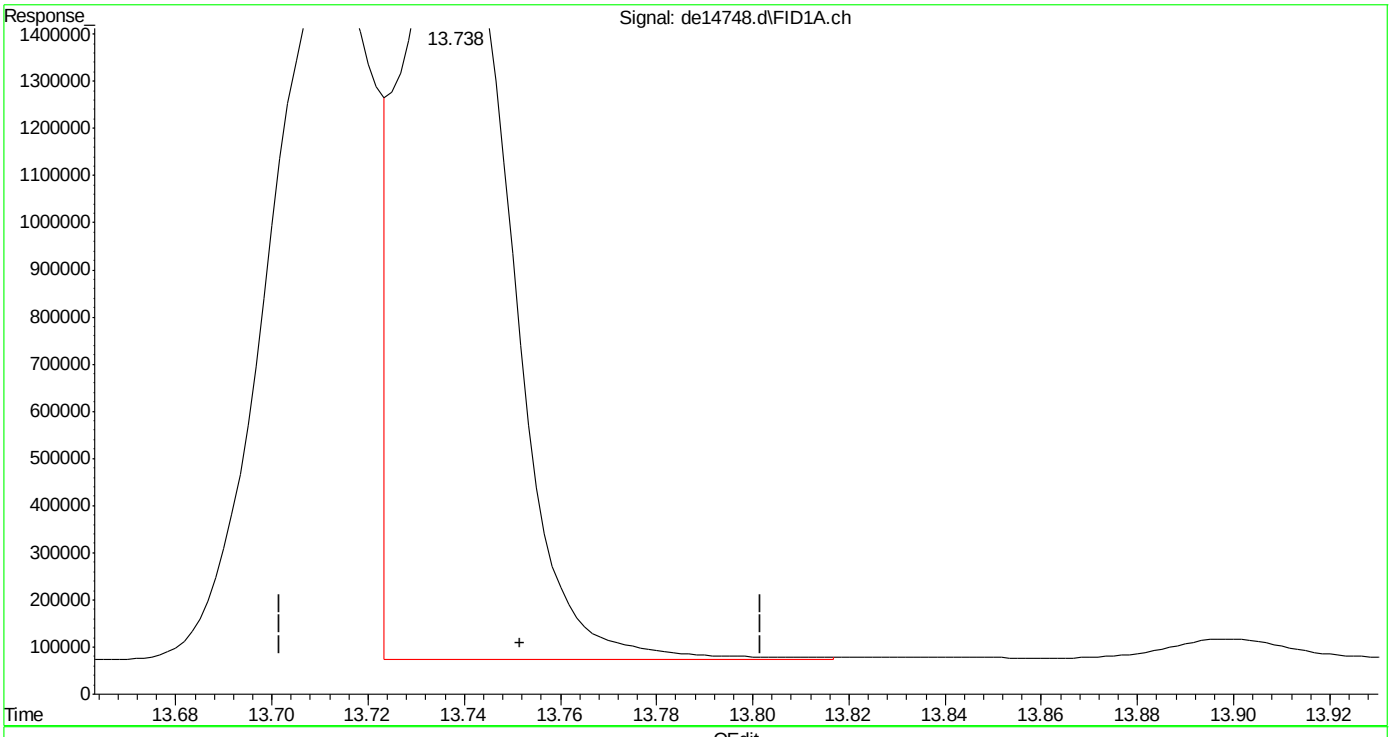
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14748.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:41 pm
Operator : thomasa
Sample : op47926-bs
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 2  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:30 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
13.738min 19.705 µg/ml m
response 2522853

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:57:28 2016





SGS ACCUTEST MC46487

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
06/29/16 12:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:00:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 6.498 | 1736566 | 15.170 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 75.85%# |
| 6) s | 2-bromonaphthalene | 7.218 | 1104557 | 15.405 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 77.03%# |
| 11) s | o-terphenyl | 9.755 | 1815055 | 13.718 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 68.59%# |
| 35) s | 1-chlorooctadecane | 11.212 | 955747 | 14.669 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 73.34%# |
| | **Target Compounds** | | | |
| 1) h | c11-c22 Aromatics (Un... | 5.097 | 40348063 | 323.414 µg/mlm |
| 2) | naphthalene | 5.047 | 1612953 | 12.849 µg/ml |
| 3) | 2-methylnaphthalene | 5.943 | 1696728 | 13.451 µg/ml |
| 5) | acenaphthylene | 7.052 | 1870413 | 14.783 µg/ml |
| 7) | acenaphthene | 7.292 | 2172199 | 15.595 µg/ml |
| 8) | fluorene | 7.935 | 2040977 | 15.887 µg/ml |
| 9) | phenanthrene | 9.108 | 2114115 | 16.924 µg/ml |
| 10) | anthracene | 9.165 | 2320006 | 17.439 µg/ml |
| 12) | fluoranthene | 10.605 | 2344637 | 18.280 µg/ml |
| 13) | pyrene | 10.862 | 2376230 | 18.092 µg/ml |
| 14) | benzo(a)anthracene | 12.420 | 2337441 | 19.241 µg/mlm |
| 15) | chrysene | 12.467 | 2436221 | 19.085 µg/mlm |
| 16) | benzo(B)fluoranthene | 13.712 | 2422875 | 20.464 µg/ml |
| 17) | benzo(k)fluoranthene | 13.738 | 2326645 | 18.173 µg/ml |
| 18) | benzo(a)pyrene | 14.045 | 2337030 | 19.812 µg/ml |
| 19) | indeno(1,2,3-cd)pyrene | 15.180 | 2340842 | 19.999 µg/ml |
| 20) | dibenzo(ah)anthracene | 15.225 | 2332054 | 20.582 µg/ml |
| 21) | benzo(ghi)perylene | 15.400 | 2325740 | 20.496 µg/ml |
| 25) h | c-9 | 2.647 | 826922 | 9.809 µg/mlm |
| 26) h | c-10 | 3.800 | 1134016 | 13.451 µg/ml |
| 28) | c-12 | 5.653 | 1392273 | 16.515 µg/ml |
| 30) | c-14 | 7.172 | 1550407 | 18.390 µg/ml |
| 31) | c-16 | 8.500 | 1654880 | 19.630 µg/ml |
| 32) | c-18 | 9.693 | 1771829 | 21.017 µg/ml |
| 33) | c-19 | 10.248 | 1778078 | 22.847 µg/ml |
| 34) | c-20 | 10.778 | 1789647 | 22.996 µg/ml |
| 36) | c-22 | 11.773 | 1791815 | 23.024 µg/ml |
| 37) | c-24 | 12.692 | 1766305 | 22.696 µg/ml |
| 38) | c-26 | 13.542 | 1725616 | 22.173 µg/ml |
| 39) | c-28 | 14.333 | 1696409 | 21.798 µg/ml |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:00:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 1671006 | 21.472 µg/ml |
| 41) h c-36 | 16.983 | 1418085 | 18.222 µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

9.3.2

9



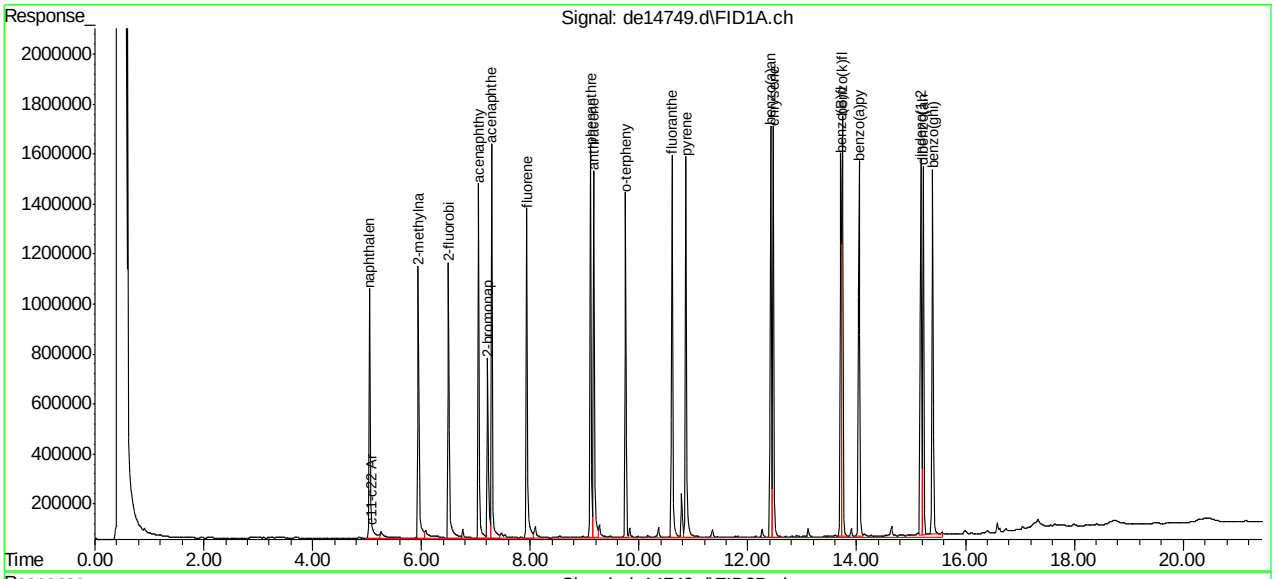
SGS ACCUTEST MC46487

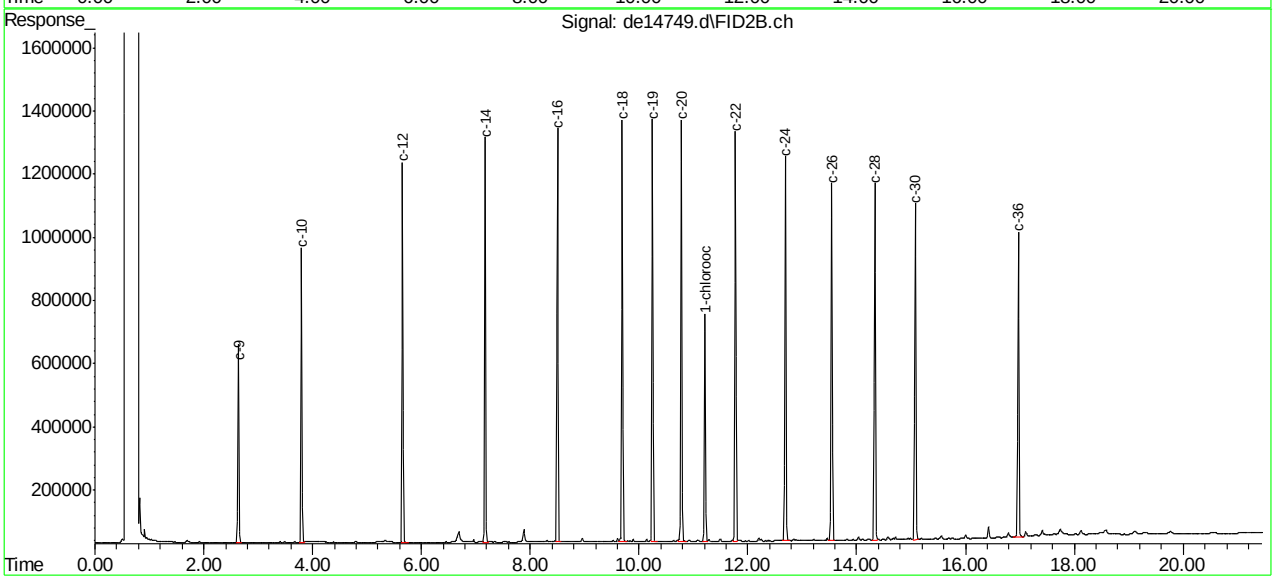
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 08:00:52 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

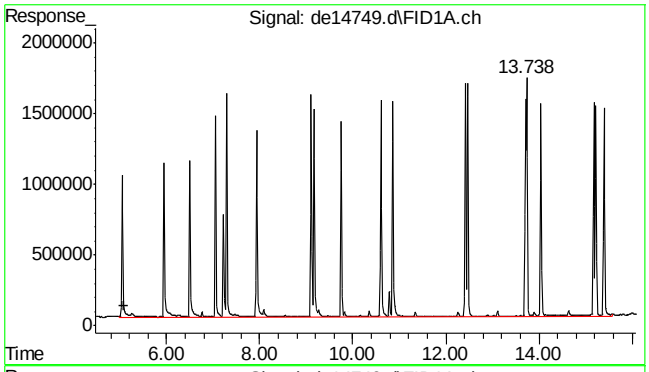
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



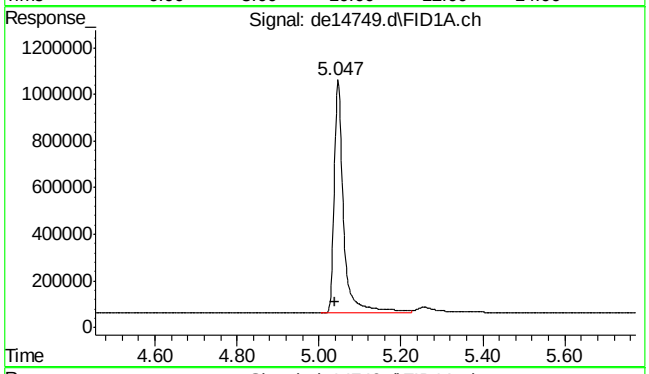



SGS ACCUTEST MC46487



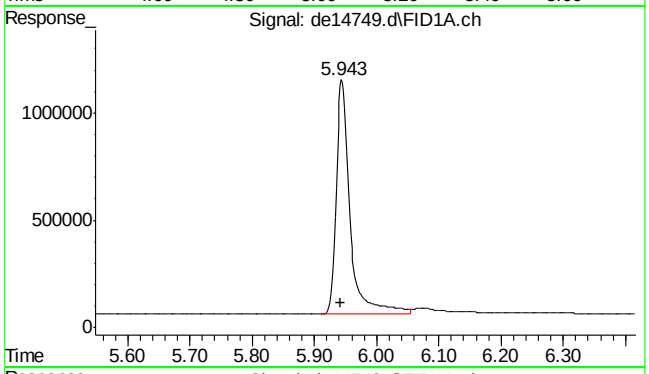

#1 c11-c22 Aromatics (Unadj.)

R.T.: 5.097 min
Delta R.T.: 0.000 min
Response: 40348063
Conc: 323.41 µg/ml m



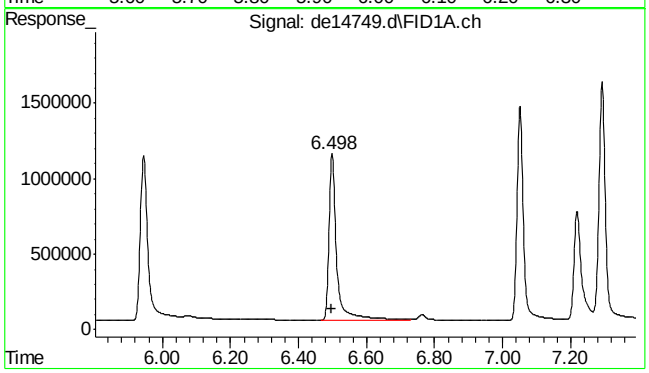

#2 naphthalene

R.T.: 5.047 min
Delta R.T.: 0.007 min
Response: 1612953
Conc: 12.85 µg/ml




#3 2-methylnaphthalene

R.T.: 5.943 min
Delta R.T.: 0.002 min
Response: 1696728
Conc: 13.45 µg/ml



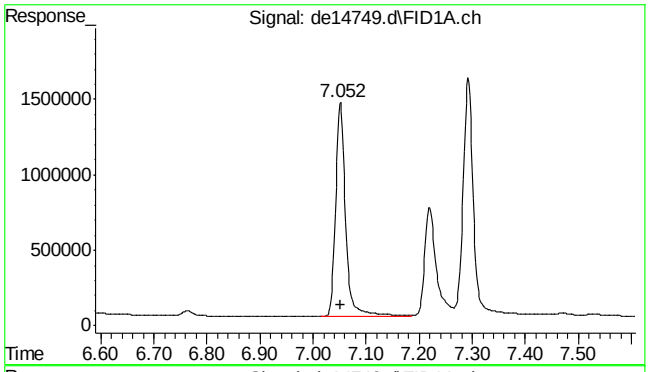

#4 2-fluorobiphenyl

R.T.: 6.498 min
Delta R.T.: 0.002 min
Response: 1736566
Conc: 15.17 µg/ml



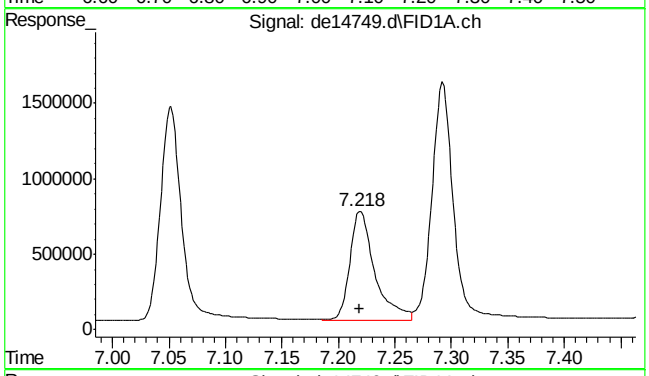


SGS ACCUTEST MC46487



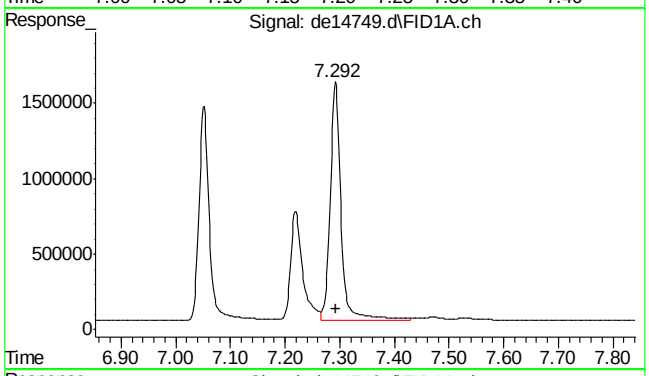

#5 acenaphthylene

R.T.: 7.052 min
Delta R.T.: 0.000 min
Response: 1870413
Conc: 14.78 µg/ml



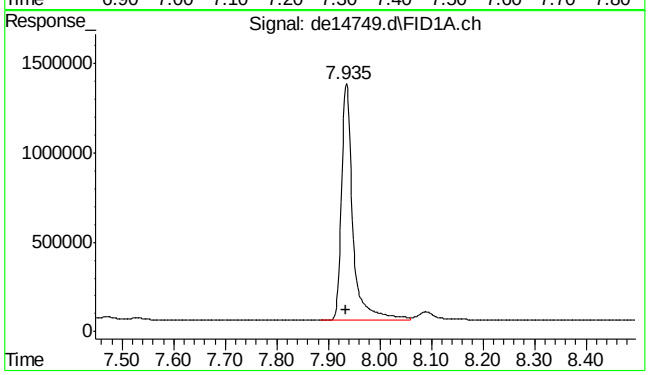

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 1104557
Conc: 15.40 µg/ml




#7 acenaphthene

R.T.: 7.292 min
Delta R.T.: -0.002 min
Response: 2172199
Conc: 15.60 µg/ml




#8 fluorene

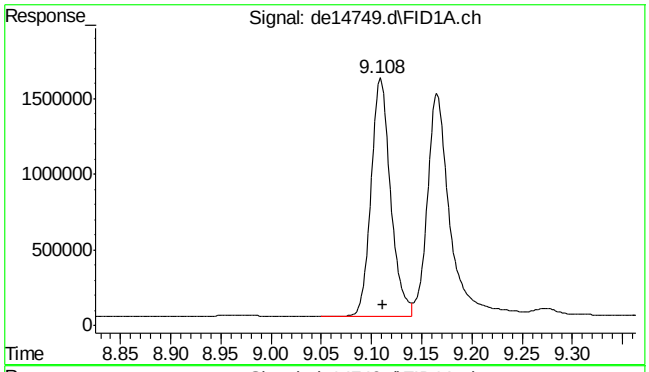
R.T.: 7.935 min
Delta R.T.: 0.000 min
Response: 2040977
Conc: 15.89 µg/ml

9.3.2

9

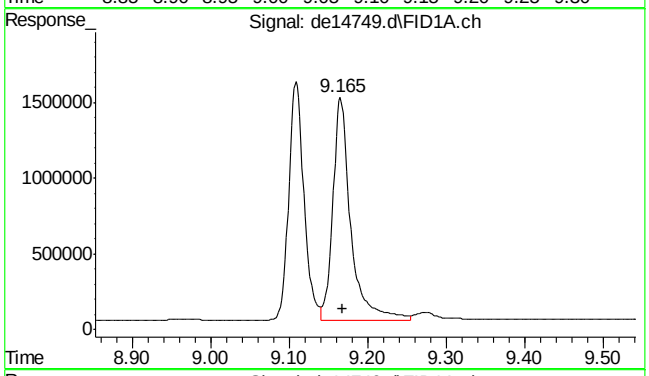


SGS ACCUTEST MC46487



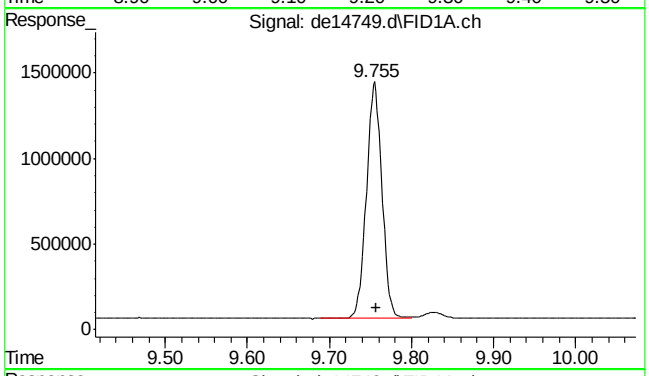

#9 phenanthrene

R.T.: 9.108 min
Delta R.T.: -0.003 min
Response: 2114115
Conc: 16.92 µg/ml



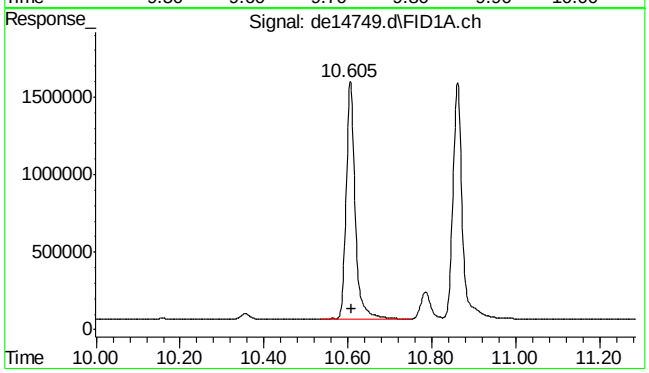

#10 anthracene

R.T.: 9.165 min
Delta R.T.: -0.003 min
Response: 2320006
Conc: 17.44 µg/ml




#11 o-terphenyl

R.T.: 9.755 min
Delta R.T.: -0.002 min
Response: 1815055
Conc: 13.72 µg/ml




#12 fluoranthene

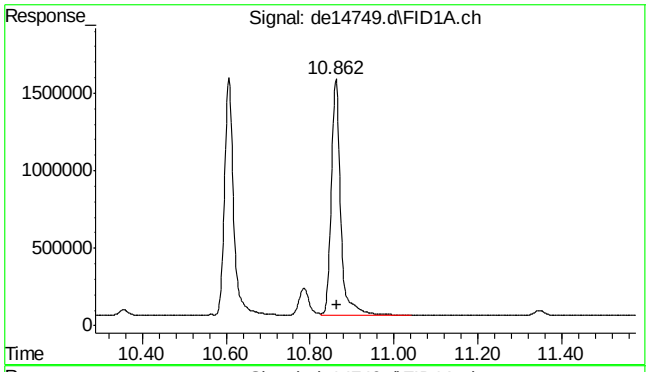
R.T.: 10.605 min
Delta R.T.: -0.005 min
Response: 2344637
Conc: 18.28 µg/ml

9.3.2

9

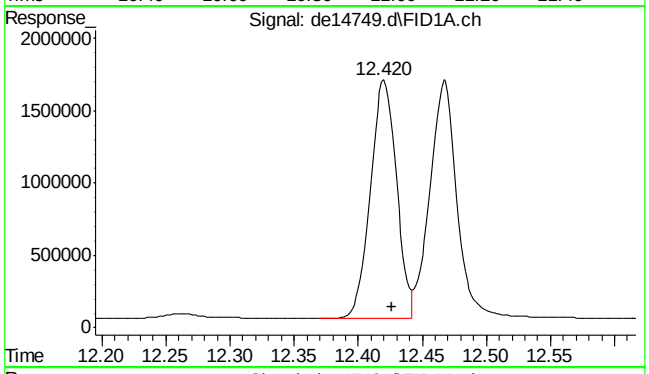


SGS ACCUTEST MC46487



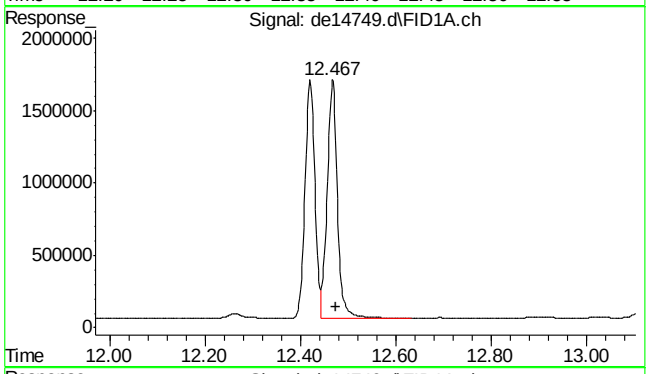

#13 pyrene

R.T.: 10.862 min
Delta R.T.: -0.003 min
Response: 2376230
Conc: 18.09 µg/ml



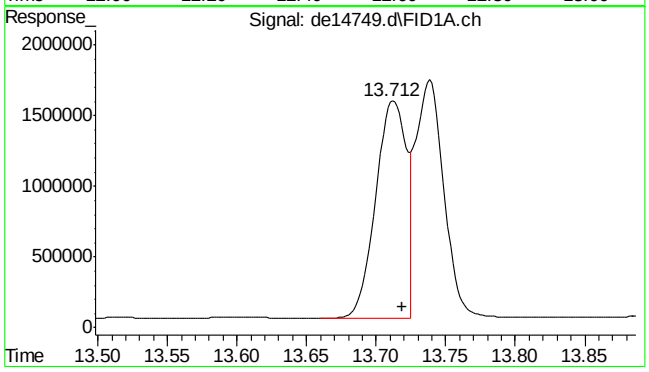

#14 benzo(a)anthracene

R.T.: 12.420 min
Delta R.T.: -0.007 min
Response: 2337441
Conc: 19.24 µg/ml m




#15 chrysene

R.T.: 12.467 min
Delta R.T.: -0.007 min
Response: 2436221
Conc: 19.09 µg/ml m



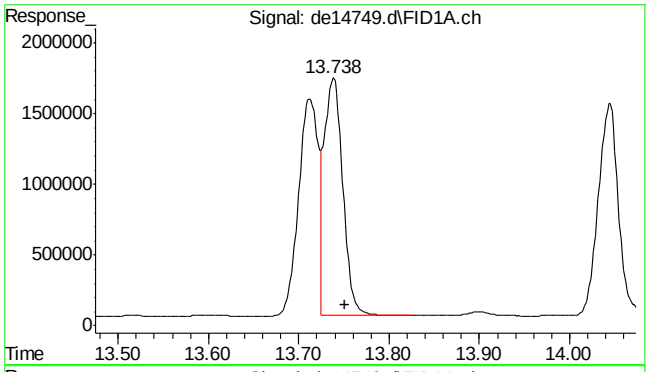

#16 benzo(B)fluoranthene

R.T.: 13.712 min
Delta R.T.: -0.007 min
Response: 2422875
Conc: 20.46 µg/ml



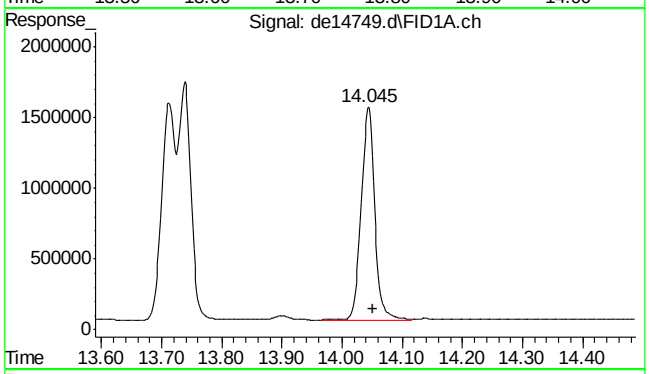


SGS ACCUTEST MC46487



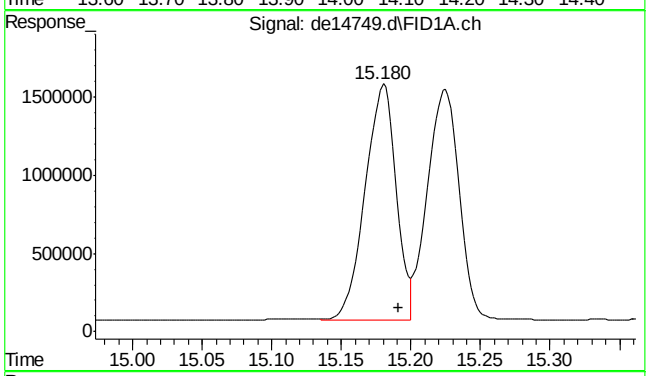

#17 benzo(k)fluoranthene

R.T.: 13.738 min
Delta R.T.: -0.013 min
Response: 2326645
Conc: 18.17 µg/ml



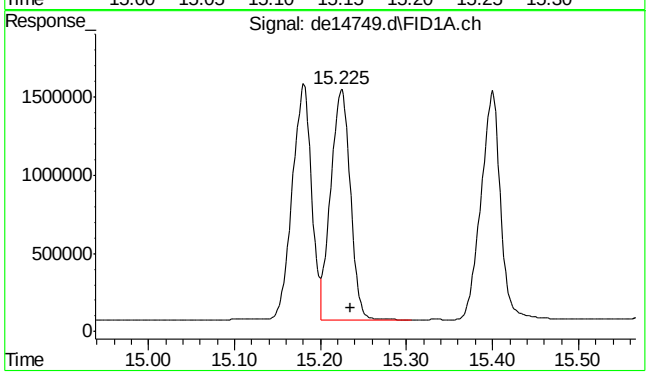

#18 benzo(a)pyrene

R.T.: 14.045 min
Delta R.T.: -0.007 min
Response: 2337030
Conc: 19.81 µg/ml




#19 indeno(1,2,3-cd)pyrene

R.T.: 15.180 min
Delta R.T.: -0.012 min
Response: 2340842
Conc: 20.00 µg/ml




#20 dibenzo(ah)anthracene

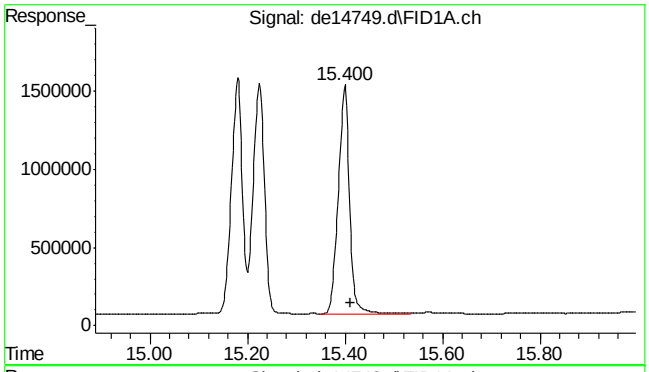
R.T.: 15.225 min
Delta R.T.: -0.010 min
Response: 2332054
Conc: 20.58 µg/ml

9.3.2

9

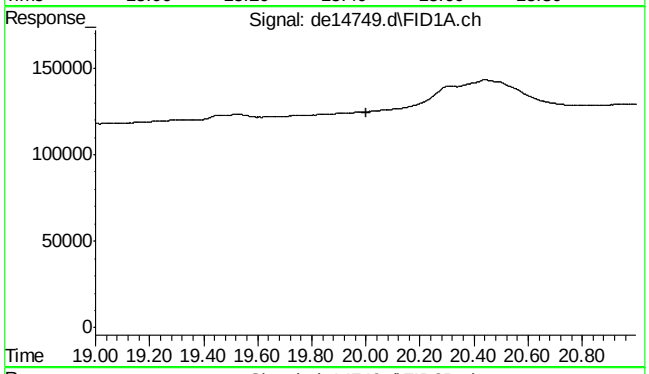


SGS ACCUTEST MC46487



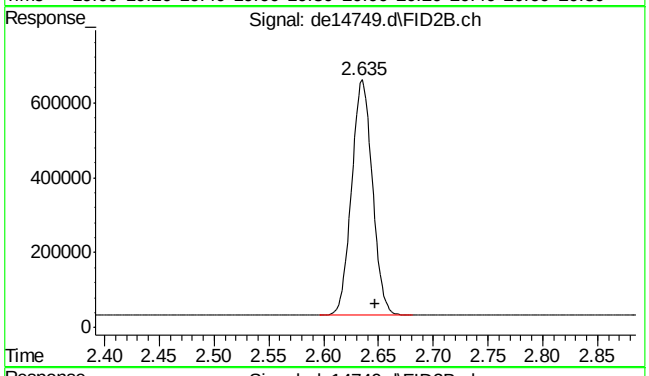

#21 benzo(ghi)perylene

R.T.: 15.400 min
Delta R.T.: -0.012 min
Response: 2325740
Conc: 20.50 µg/ml



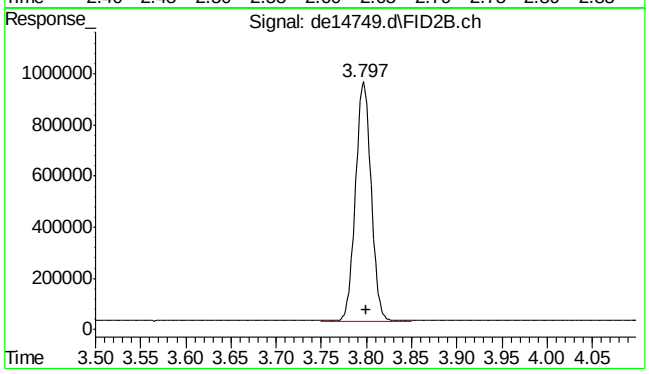

#22 bht

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: 826922
Conc: 9.81 µg/ml m




#26 c-10

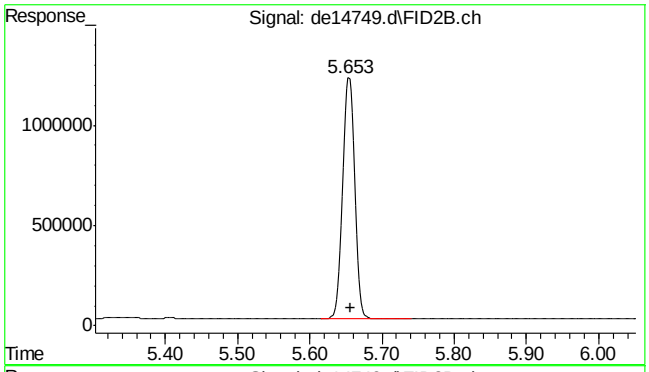
R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 1134016
Conc: 13.45 µg/ml

9.3.2

9

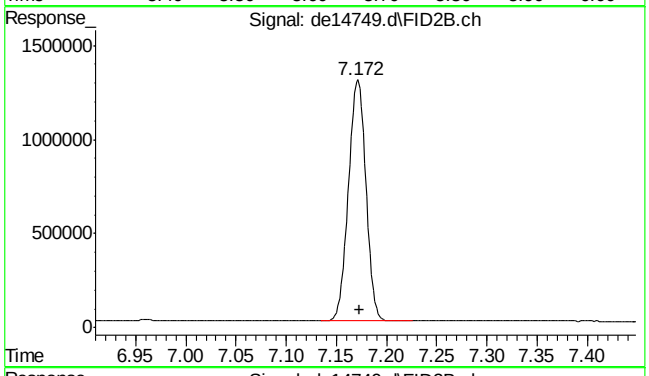


SGS ACCUTEST MC46487



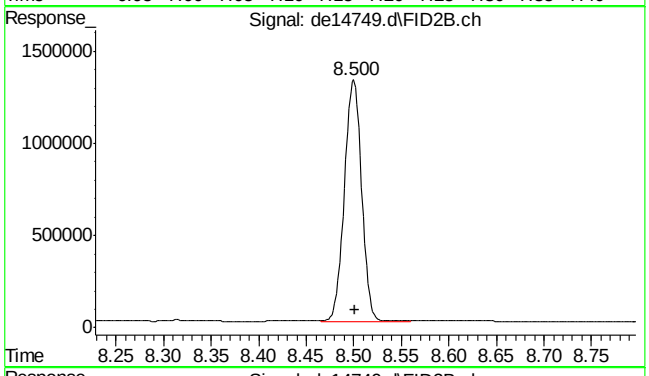

#28 c-12

R.T.: 5.653 min
Delta R.T.: -0.003 min
Response: 1392273
Conc: 16.51 µg/ml



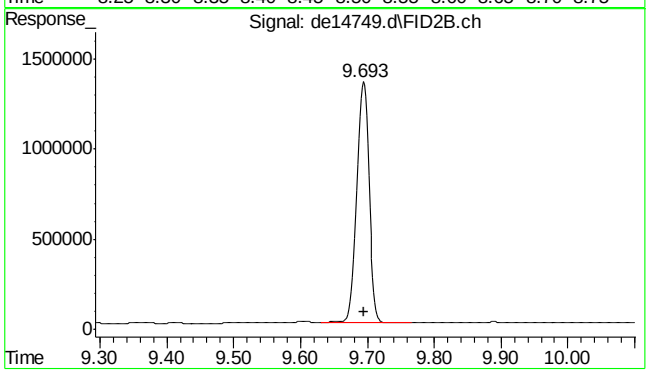

#30 c-14

R.T.: 7.172 min
Delta R.T.: -0.002 min
Response: 1550407
Conc: 18.39 µg/ml




#31 c-16

R.T.: 8.500 min
Delta R.T.: -0.002 min
Response: 1654880
Conc: 19.63 µg/ml




#32 c-18

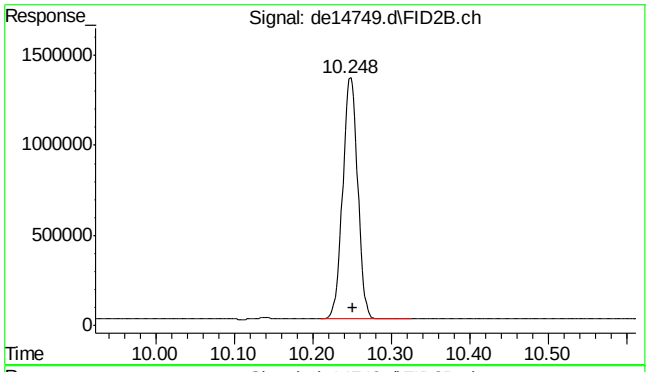
R.T.: 9.693 min
Delta R.T.: -0.002 min
Response: 1771829
Conc: 21.02 µg/ml

9.3.2

9

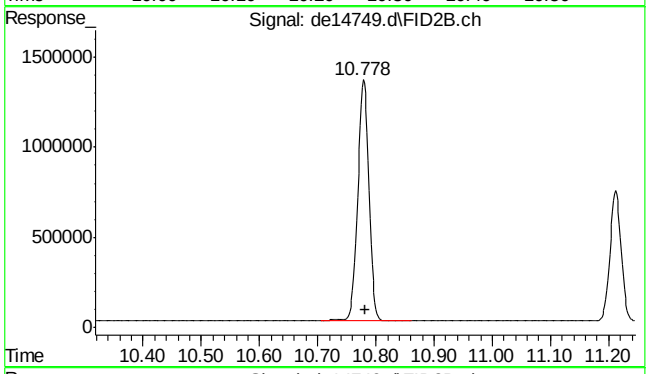


SGS ACCUTEST MC46487



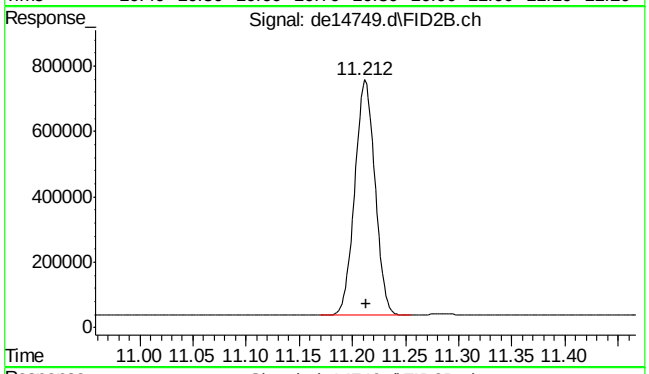

#33 c-19

R.T.: 10.248 min
Delta R.T.: -0.003 min
Response: 1778078
Conc: 22.85 µg/ml



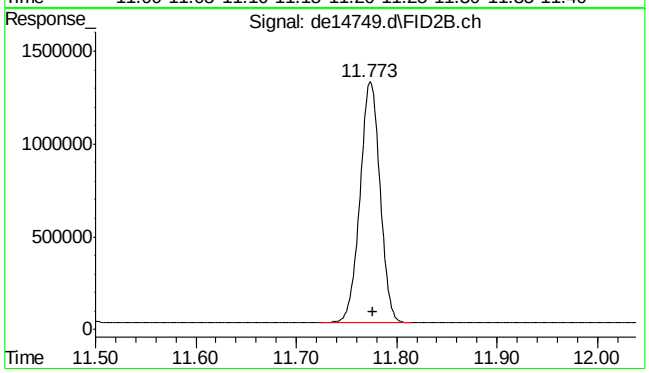

#34 c-20

R.T.: 10.778 min
Delta R.T.: -0.003 min
Response: 1789647
Conc: 23.00 µg/ml




#35 1-chlorooctadecane

R.T.: 11.212 min
Delta R.T.: -0.002 min
Response: 955747
Conc: 14.67 µg/ml




#36 c-22

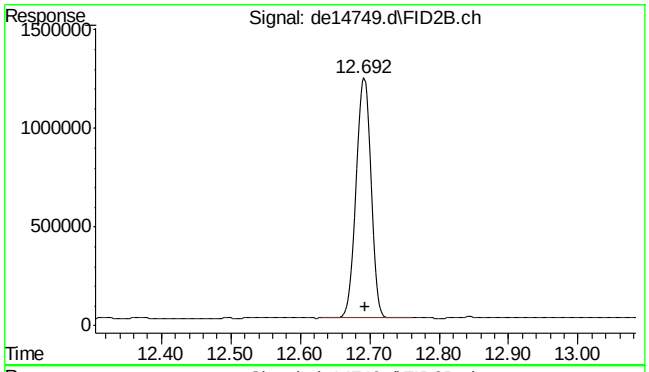
R.T.: 11.773 min
Delta R.T.: -0.003 min
Response: 1791815
Conc: 23.02 µg/ml

9.3.2

9

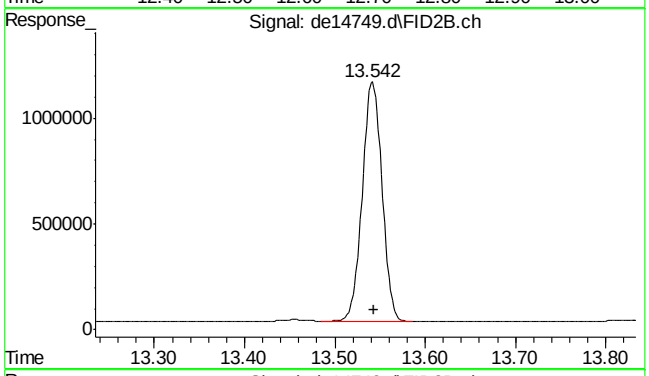


SGS ACCUTEST MC46487



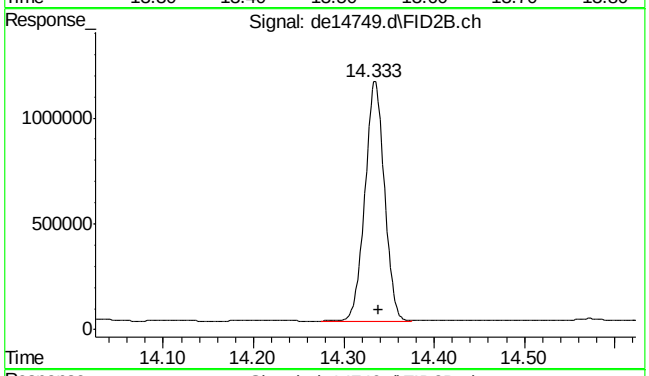

#37 c-24

R.T.: 12.692 min
Delta R.T.: -0.002 min
Response: 1766305
Conc: 22.70 µg/ml



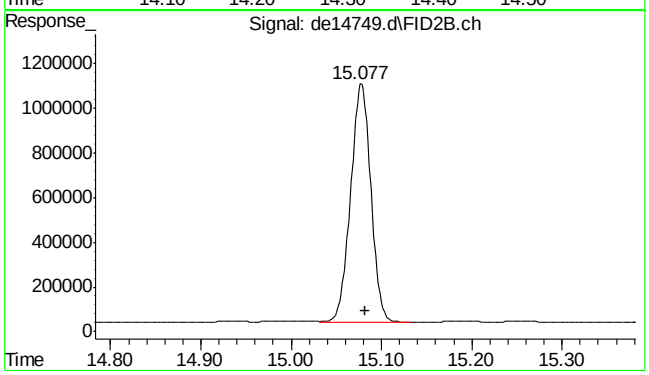

#38 c-26

R.T.: 13.542 min
Delta R.T.: -0.002 min
Response: 1725616
Conc: 22.17 µg/ml




#39 c-28

R.T.: 14.333 min
Delta R.T.: -0.005 min
Response: 1696409
Conc: 21.80 µg/ml




#40 c-30

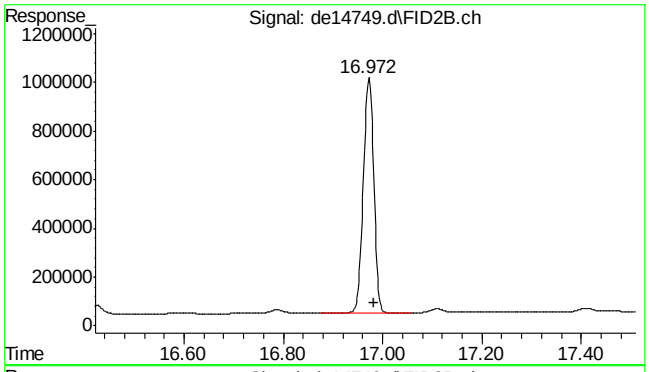
R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1671006
Conc: 21.47 µg/ml

9.3.2

9

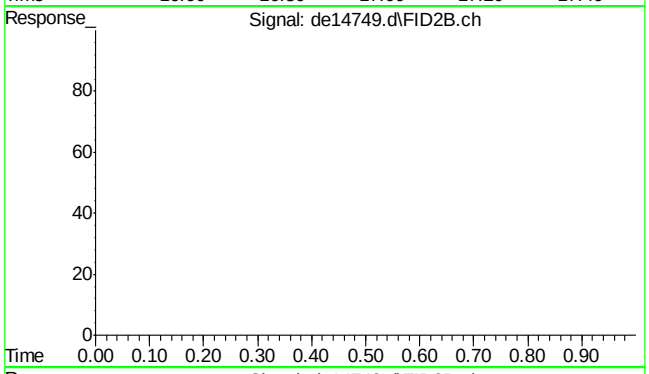


SGS ACCUTEST MC46487



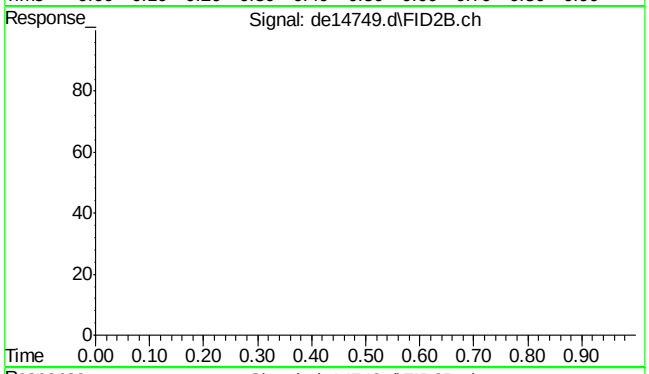

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1418085
Conc: 18.22 µg/ml m



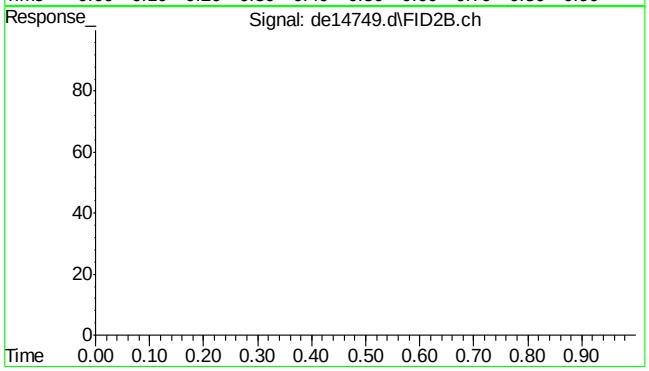

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



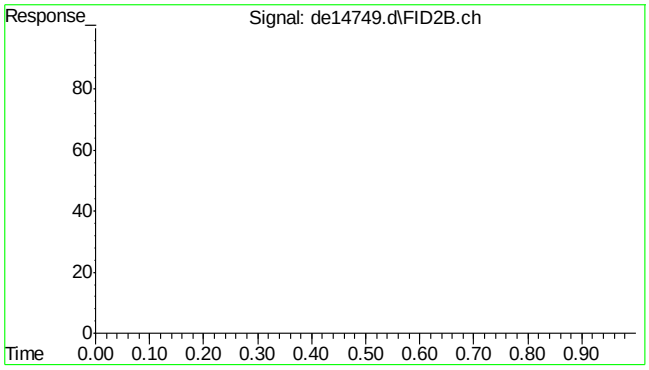

#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.





SGS ACCUTEST MC46487




#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.3.2

9



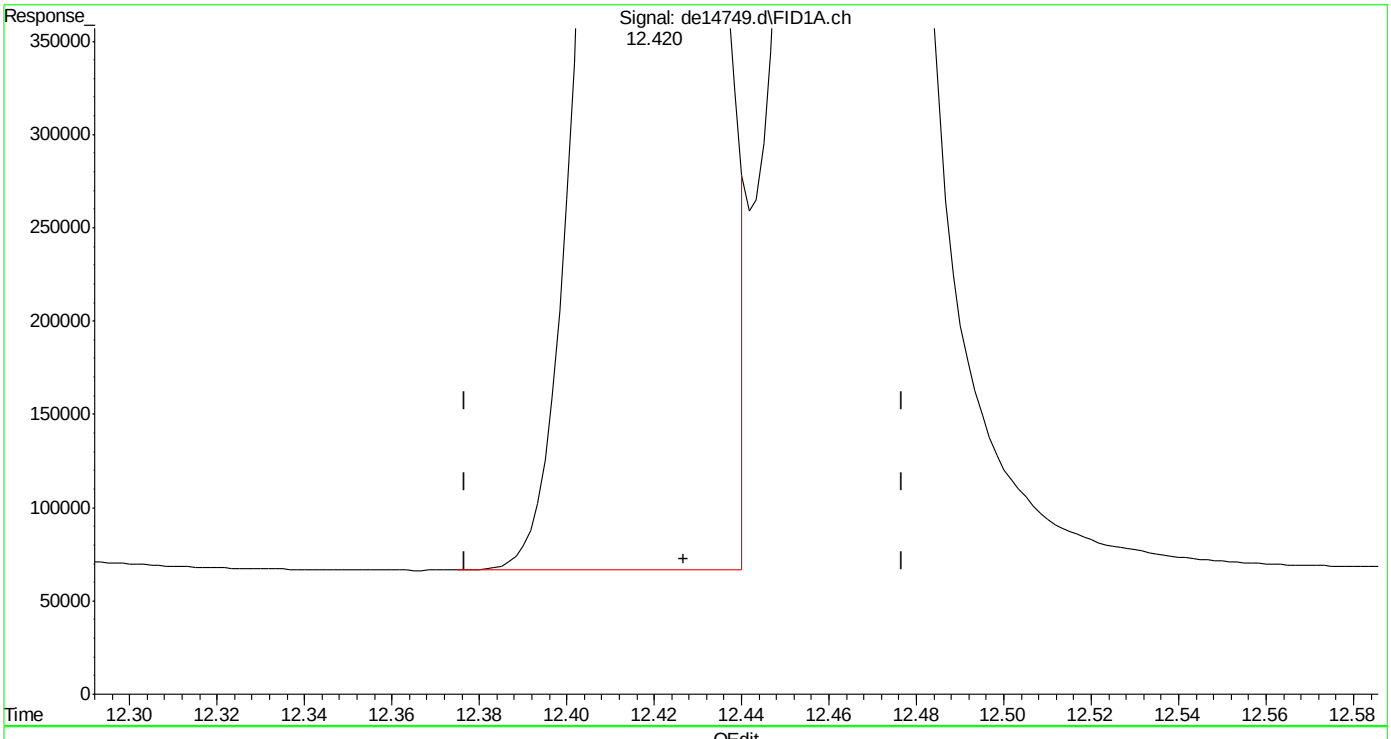
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
12.420min 19.071 µg/ml
response 2316754

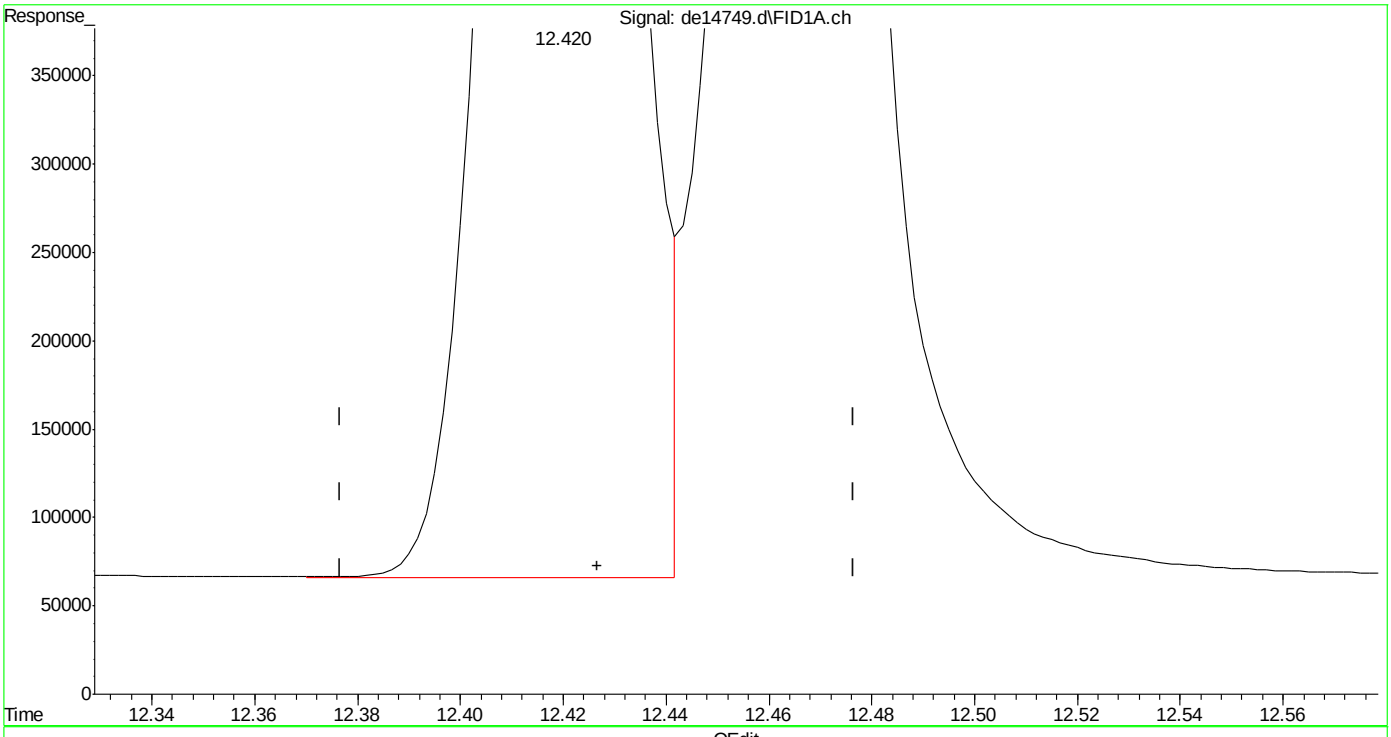
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
12.420min 19.241 µg/ml m
response 2337441

(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:59:27 2016





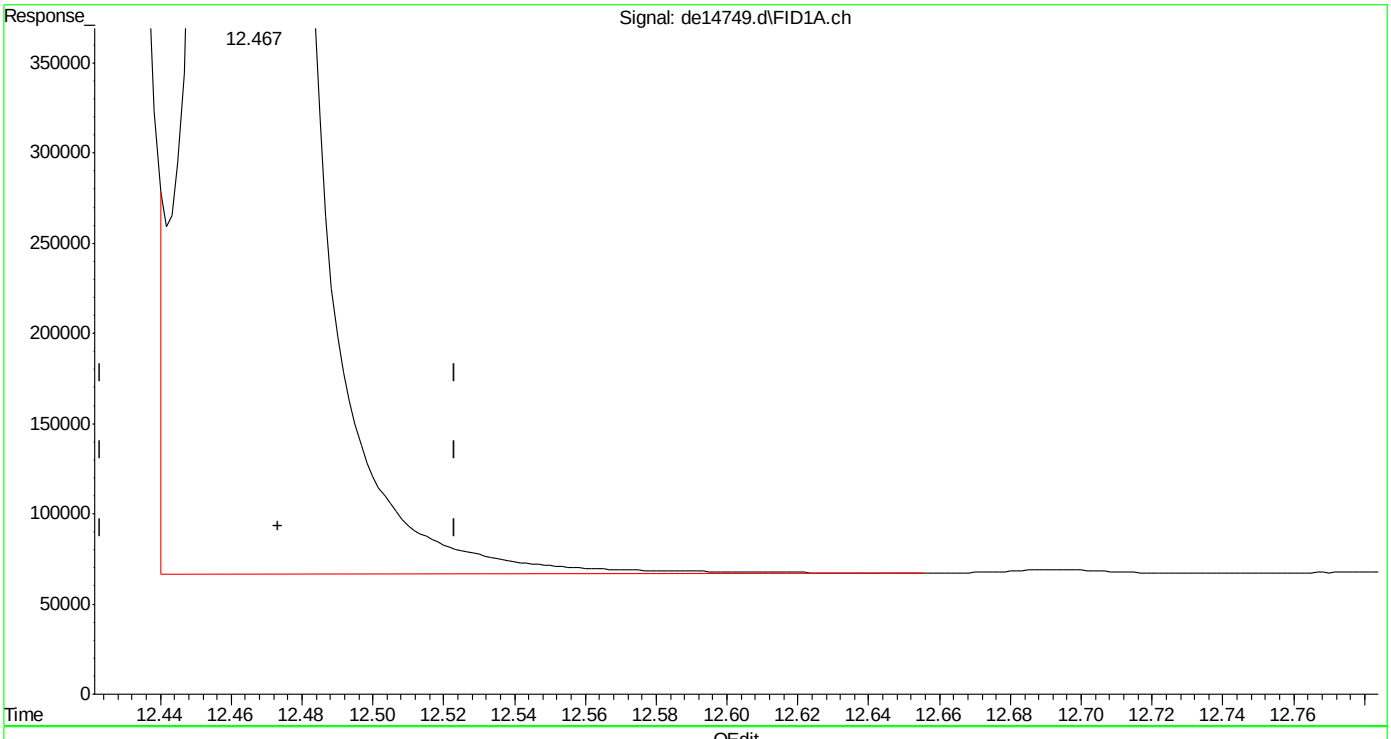
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  5:09 pm
Operator : thomasa
Sample : op47926-bsd
Misc : op47926,gde819,1000,,,2,,w
ALS Vial : 4  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(15) chrysene
12.467min 19.189 µg/ml
response 2449492

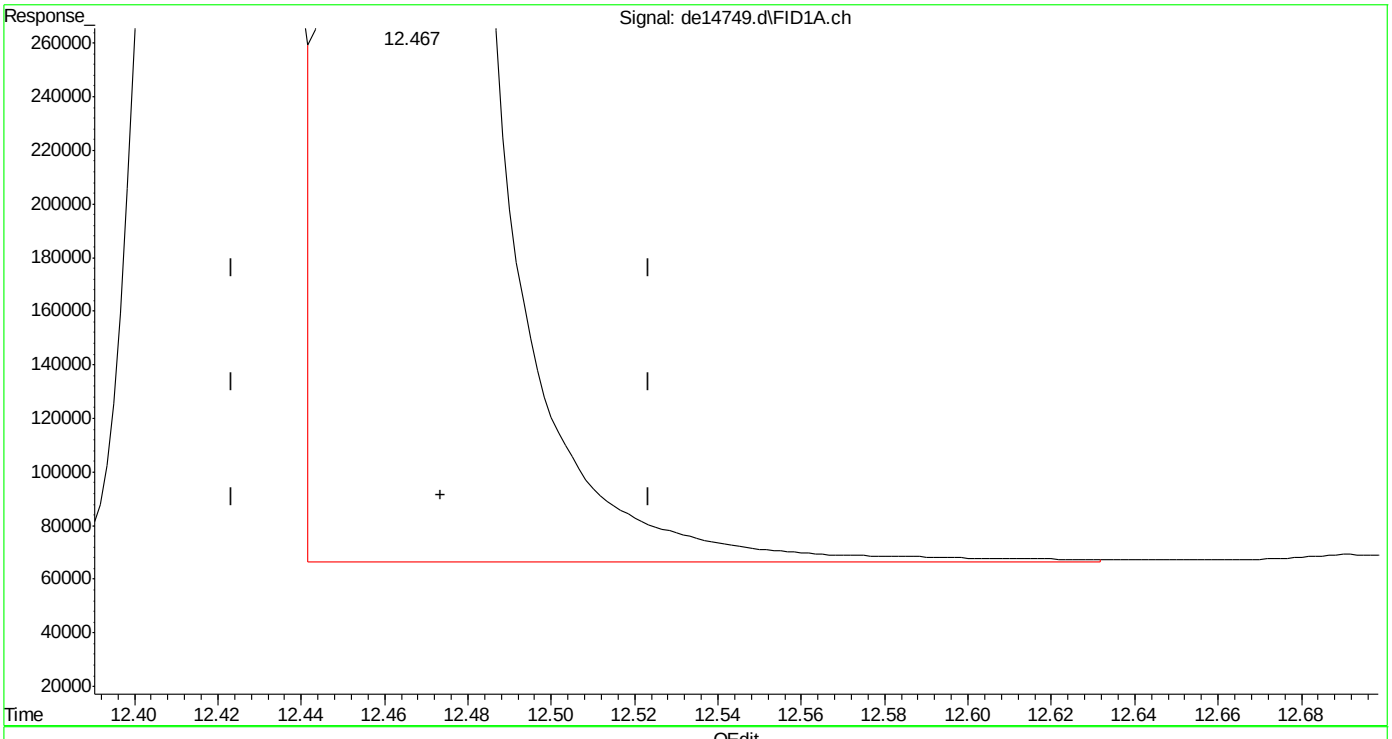
(+) = Expected Retention Time
EPH160628W.M Wed Jun 29 07:59:31 2016

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14749.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   5:09 pm
Operator  : thomasa
Sample    : op47926-bsd
Misc      : op47926,gde819,1000,,,2,,w
ALS Vial  : 4   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:49:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```




(15) chrysene

12.467min 19.085 µg/ml m

response 2436221

(+) = Expected Retention Time

EPH160628W.M Wed Jun 29 07:59:46 2016



SGS ACCUTEST MC46487

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



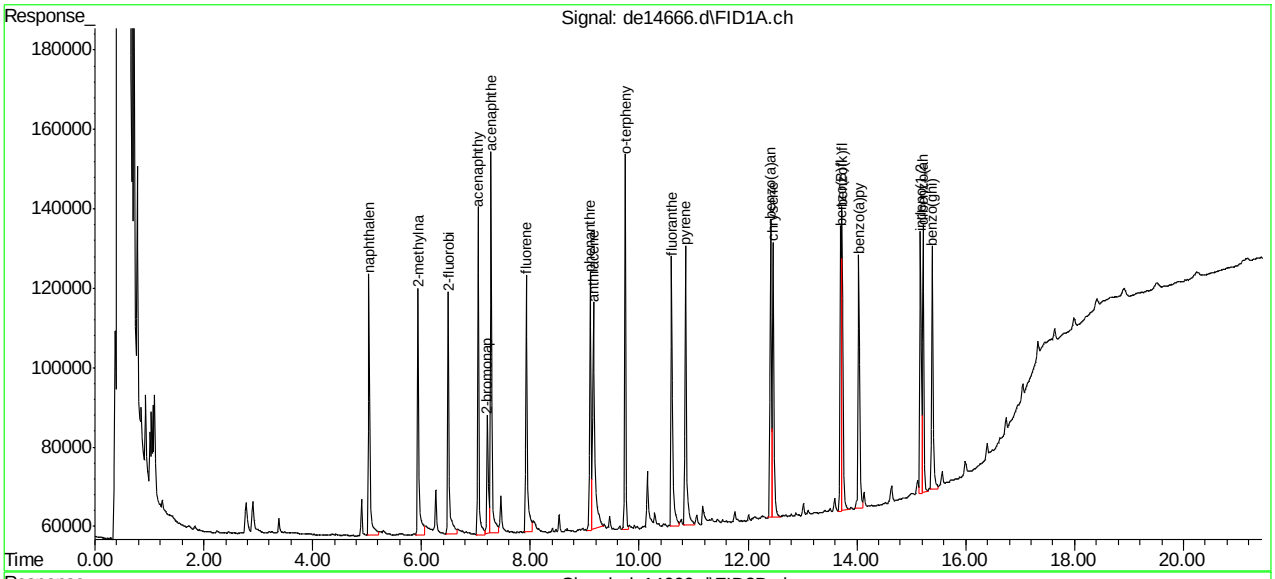
SGS ACCUTEST MC46487

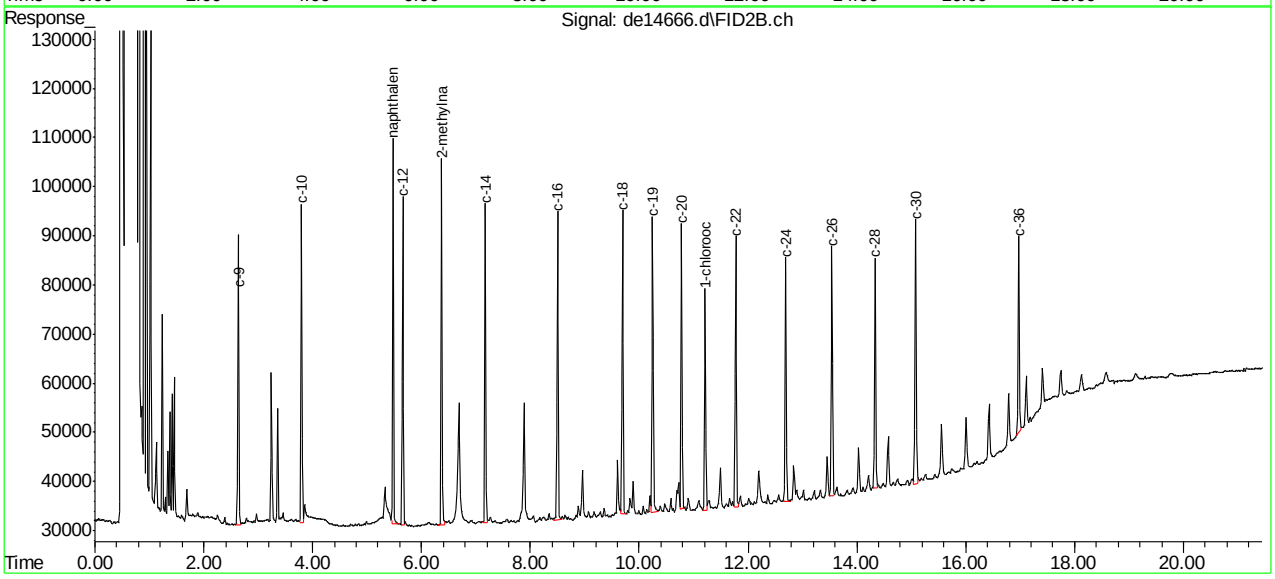
Quantitation Report (QT Reviewed)

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 :



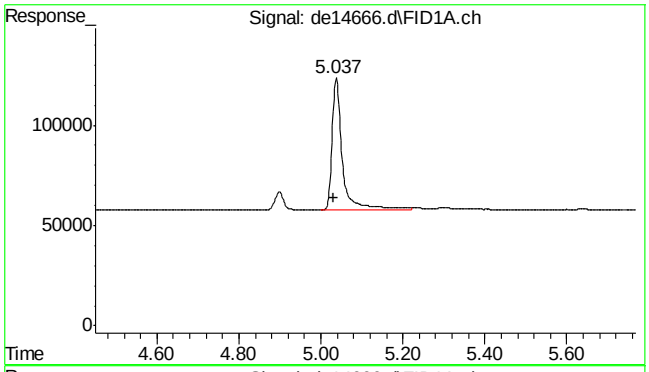







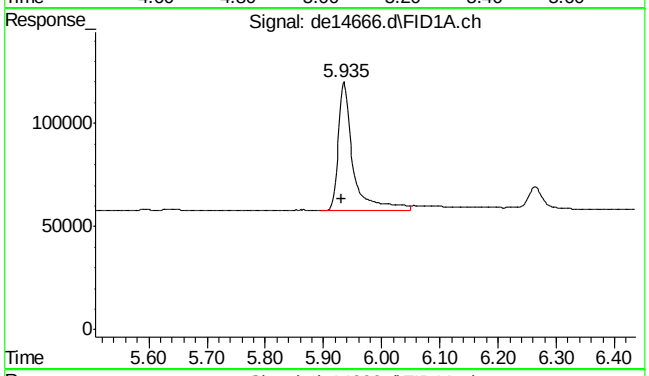



SGS ACCUTEST MC46487



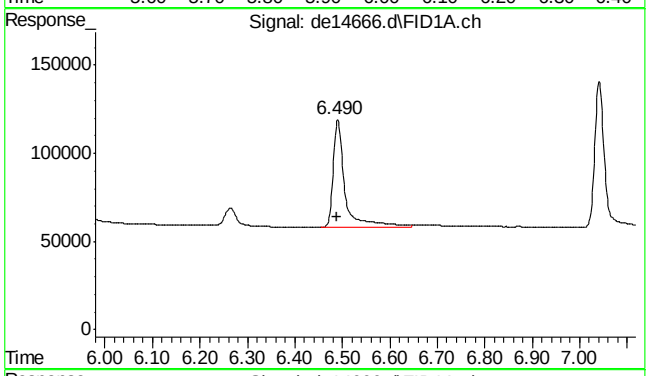

#2 naphthalene

R.T.: 5.037 min
Delta R.T.: 0.007 min
Response: 113943
Conc: 1.07 µg/ml



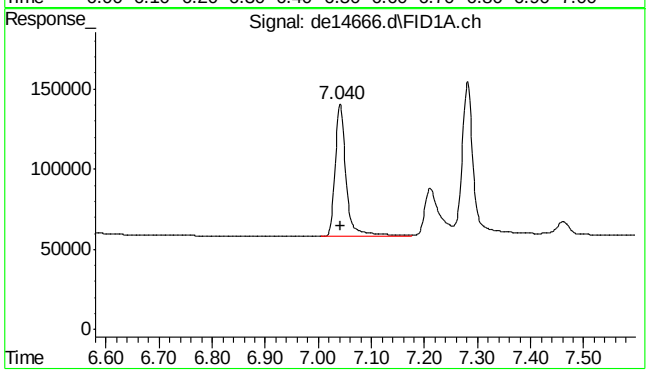

#3 2-methylnaphthalene

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

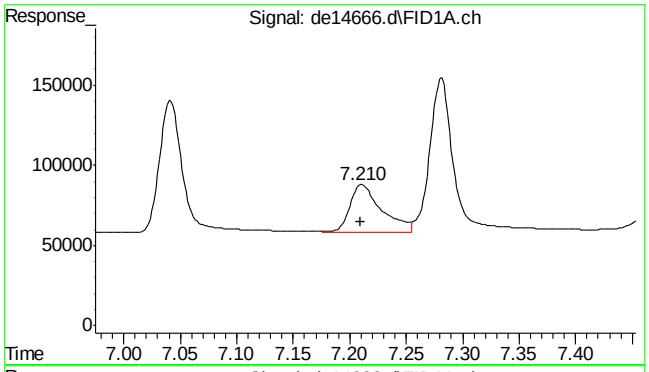
R.T.: 7.040 min
Delta R.T.: -0.002 min
Response: 122875
Conc: 1.18 µg/ml

9.4.1

9

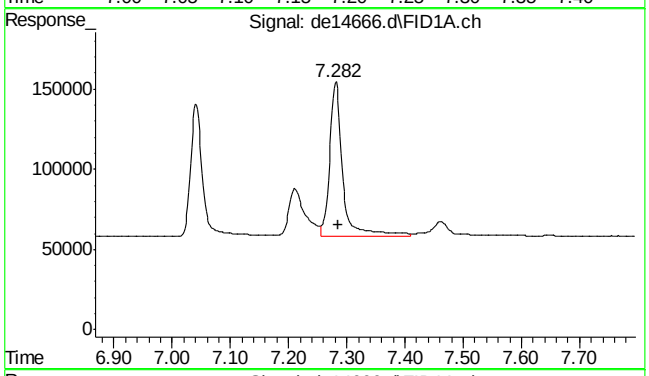


SGS ACCUTEST MC46487



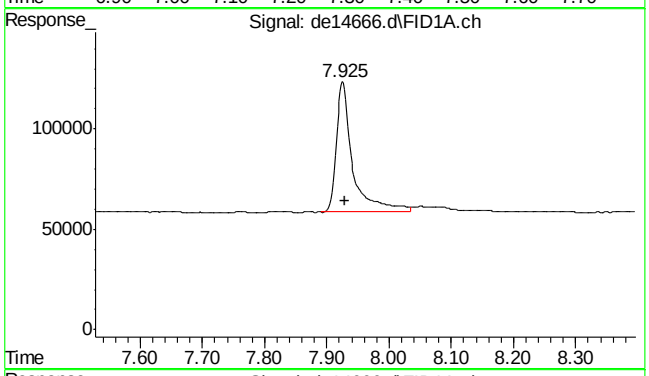

#6 2-bromonaphthalene

R.T.: 7.210 min
Delta R.T.: 0.000 min
Response: 59024
Conc: 0.91 µg/ml



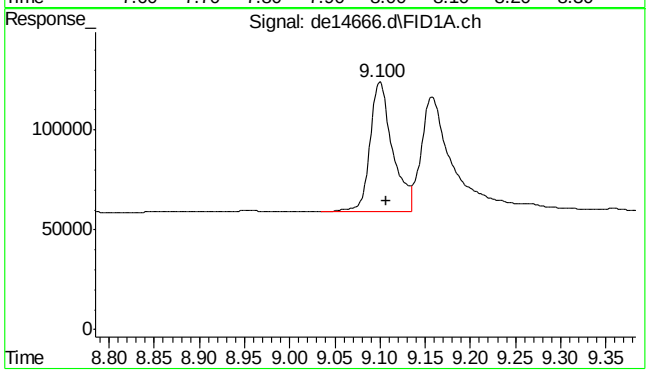

#7 acenaphthene

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

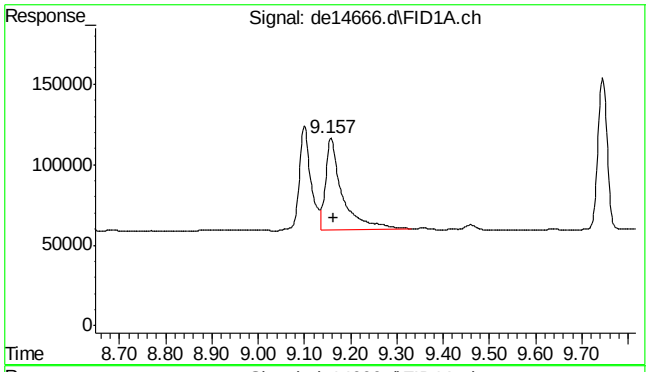
R.T.: 9.100 min
Delta R.T.: -0.007 min
Response: 114628
Conc: 1.08 µg/ml

9.4.1

9

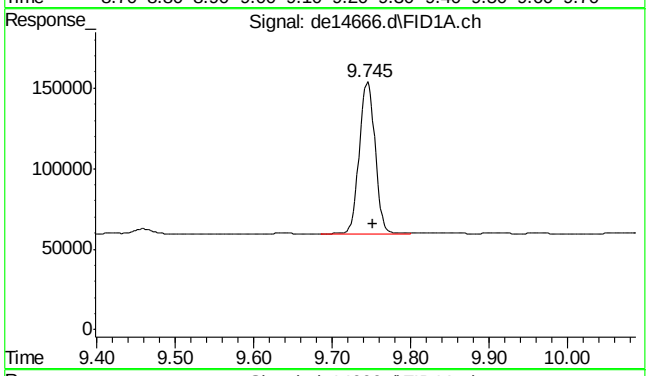


SGS ACCUTEST MC46487



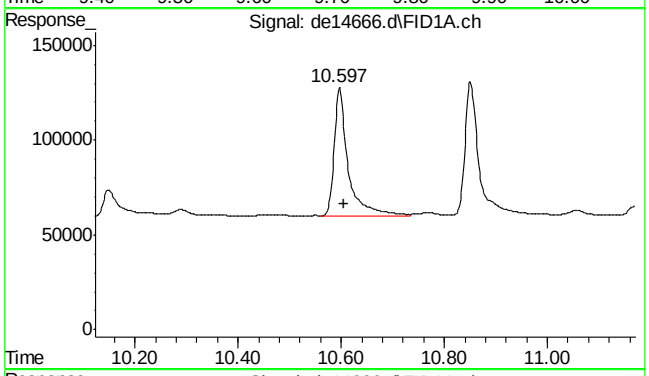

#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 144305
Conc: 1.43 µg/ml



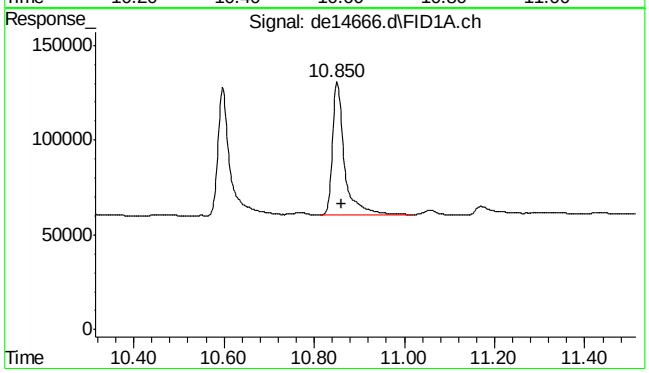

#11 o-terphenyl

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



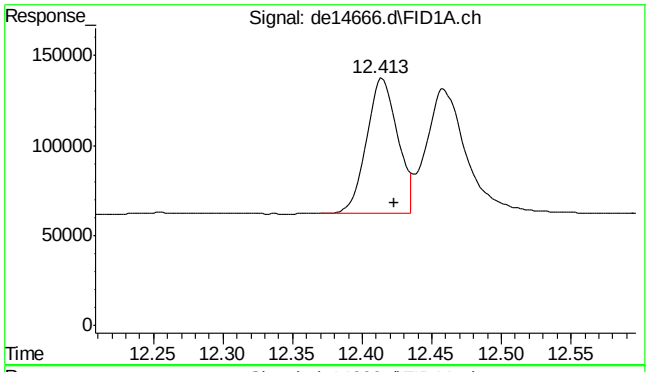

#13 pyrene

R.T.: 10.850 min
Delta R.T.: -0.012 min
Response: 131934
Conc: 1.25 µg/ml



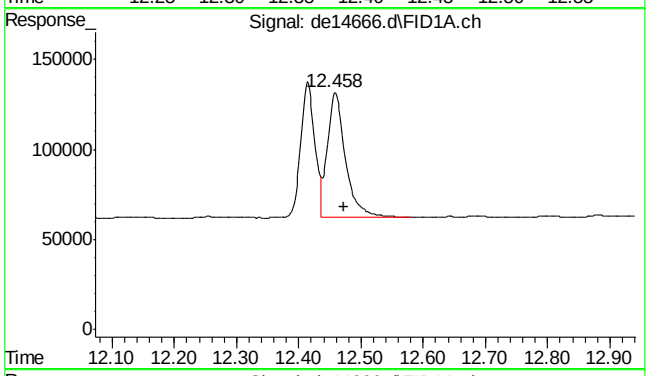


SGS ACCUTEST MC46487



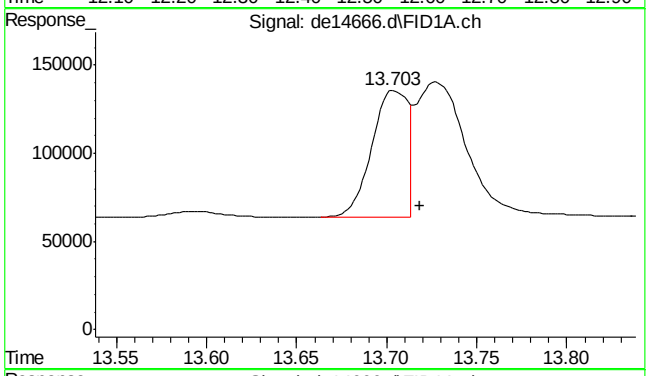

#14 benzo(a)anthracene

R.T.: 12.413 min
Delta R.T.: -0.010 min
Response: 117526
Conc: 1.17 µg/ml



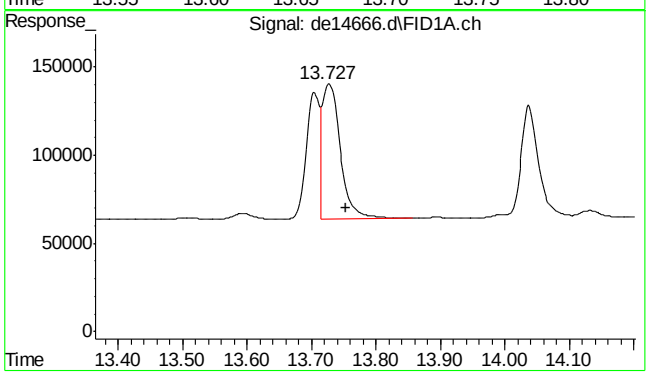

#15 chrysene

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



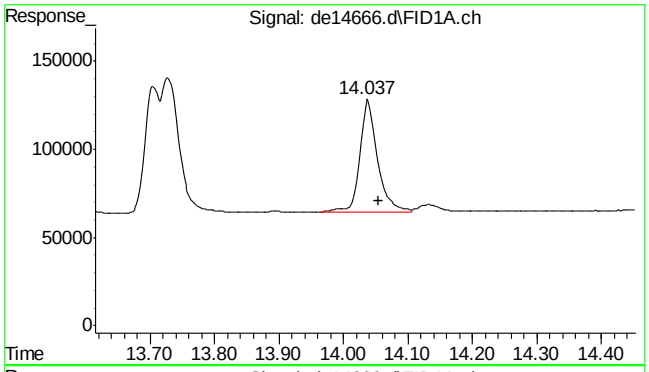

#17 benzo(k)fluoranthene

R.T.: 13.727 min
Delta R.T.: -0.027 min
Response: 143585
Conc: 1.46 µg/ml



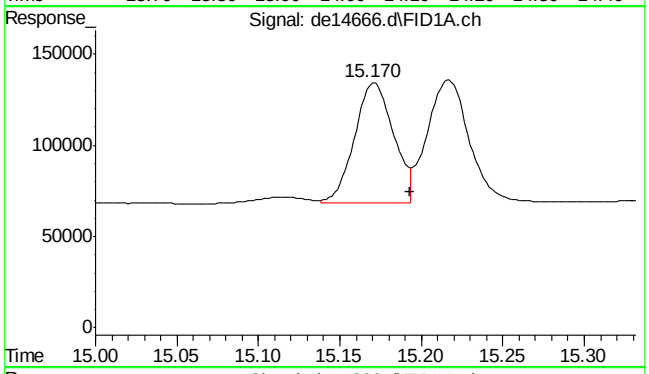


SGS ACCUTEST MC46487



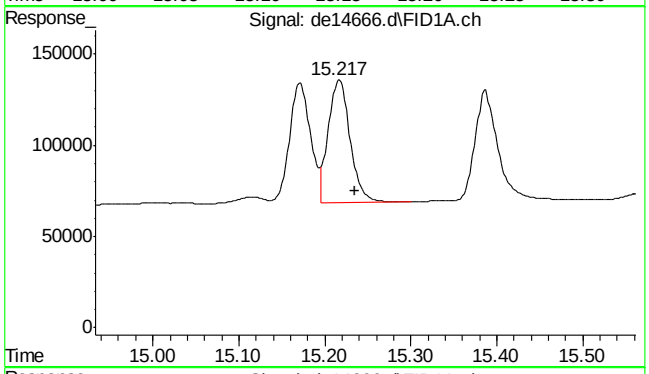

#18 benzo(a)pyrene

R.T.: 14.037 min
Delta R.T.: -0.017 min
Response: 121812
Conc: 1.27 µg/ml



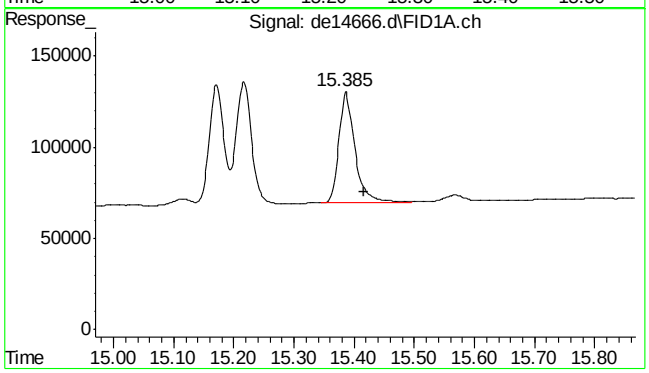

#19 indeno(1,2,3-cd)pyrene

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



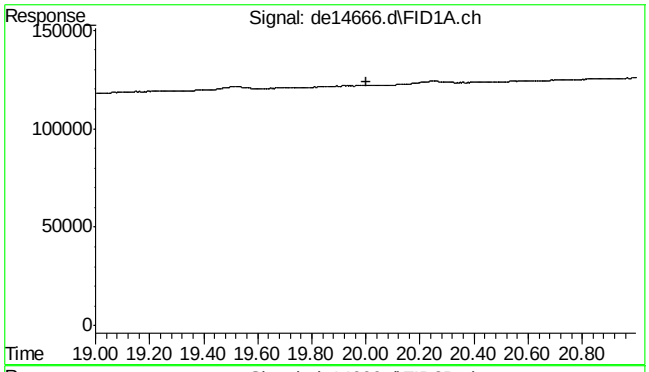

#21 benzo(ghi)perylene

R.T.: 15.385 min
Delta R.T.: -0.032 min
Response: 114951
Conc: 1.21 µg/ml



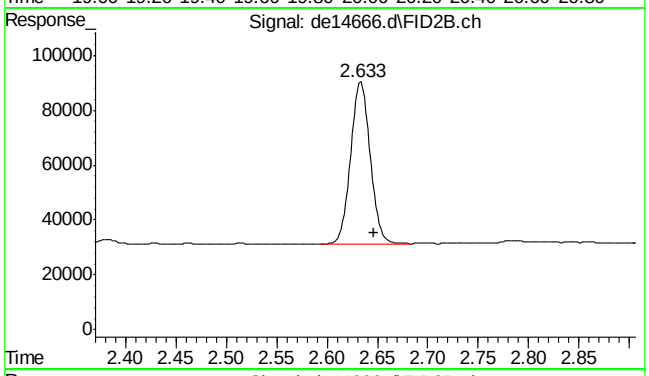


SGS ACCUTEST MC46487



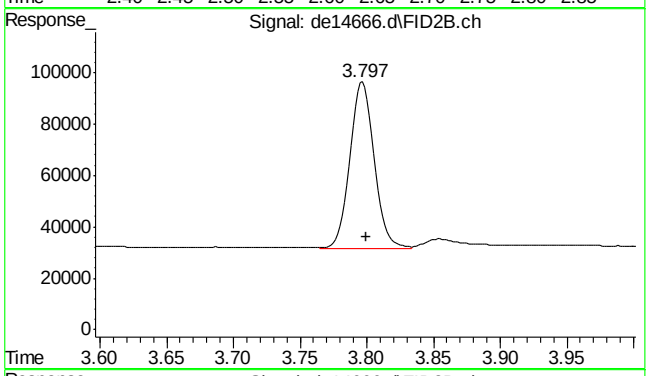

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



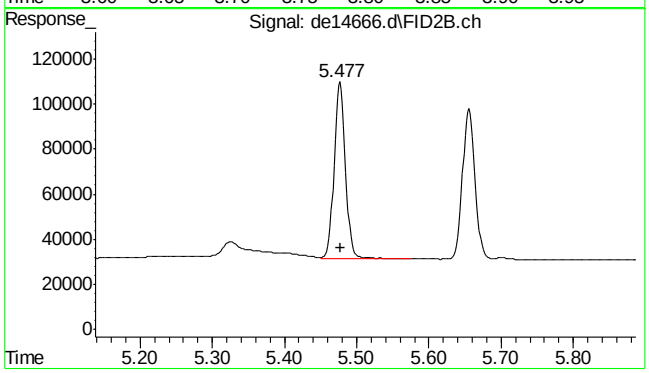

#25 c-9

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

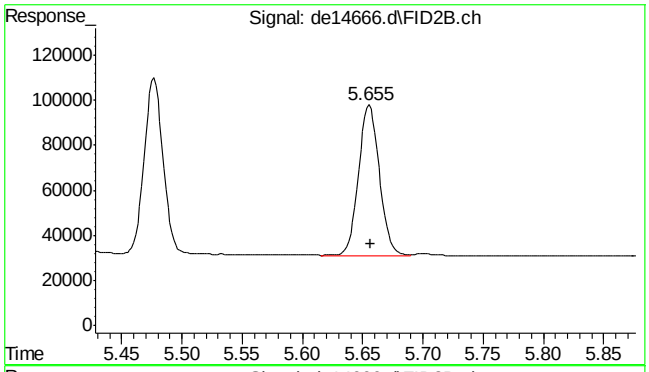
R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 87389
Conc: 1.06 µg/ml

9.4.1

9

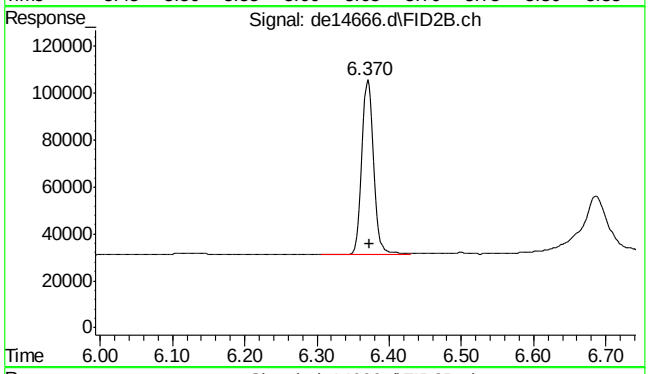


SGS ACCUTEST MC46487



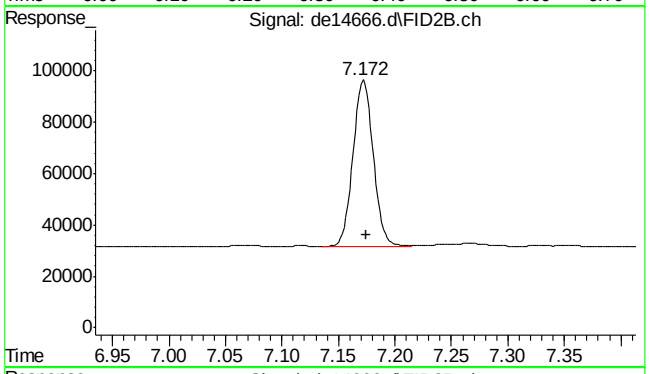

#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 80147
Conc: 1.01 µg/ml



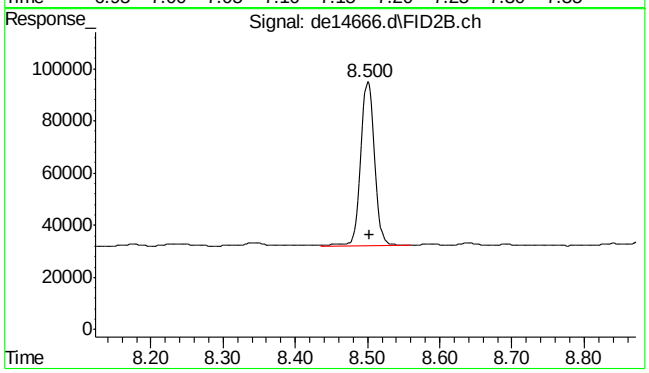

#29 2-methylnaphthalene #2

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



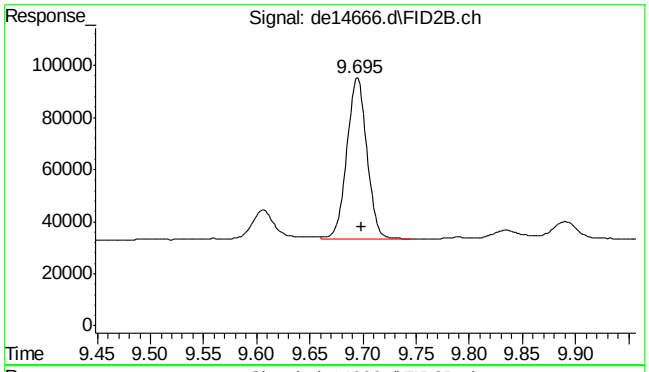

#31 c-16

R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 83899
Conc: 1.07 µg/ml



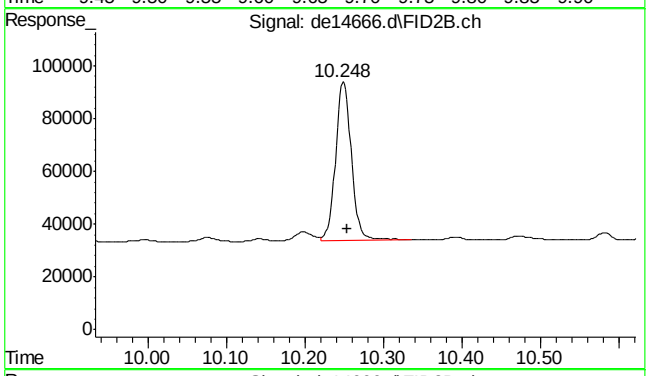


SGS ACCUTEST MC46487



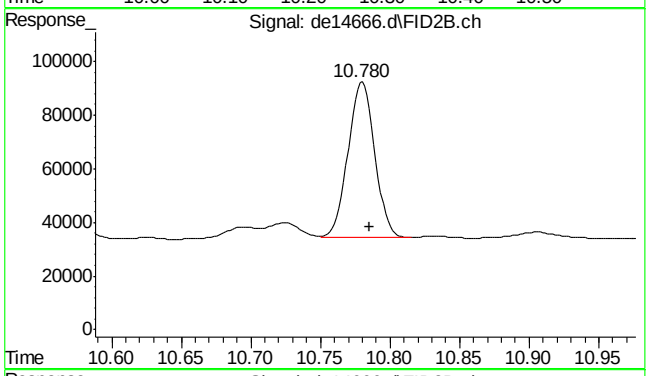

#32 c-18

R.T.: 9.695 min
Delta R.T.: -0.003 min
Response: 80411
Conc: 1.03 µg/ml



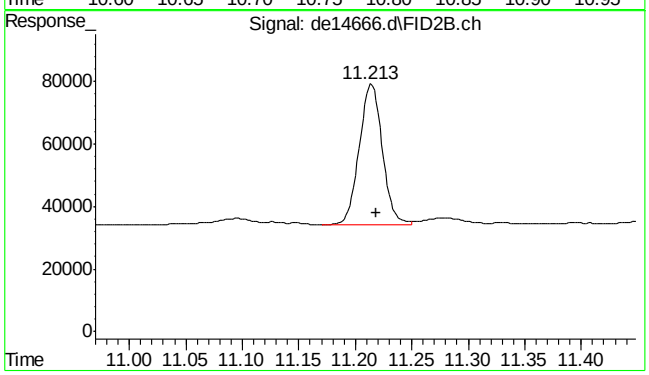

#33 c-19

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



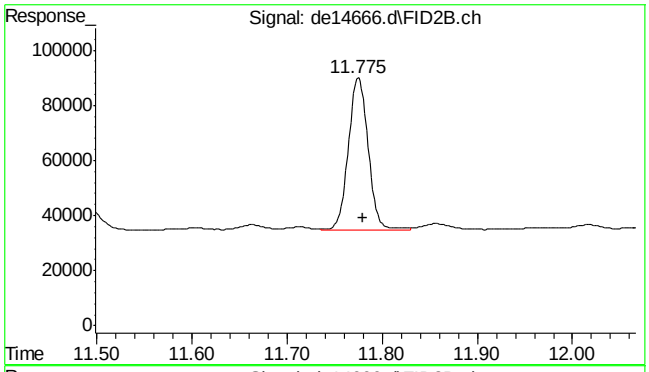

#35 1-chlorooctadecane

R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 64123
Conc: 1.10 µg/ml



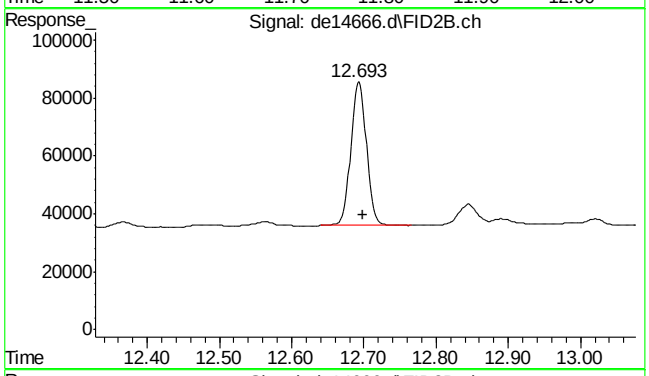


SGS ACCUTEST MC46487



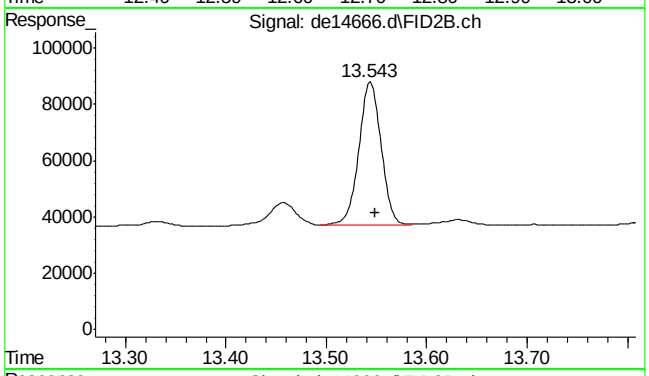

#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 79966
Conc: 1.09 µg/ml



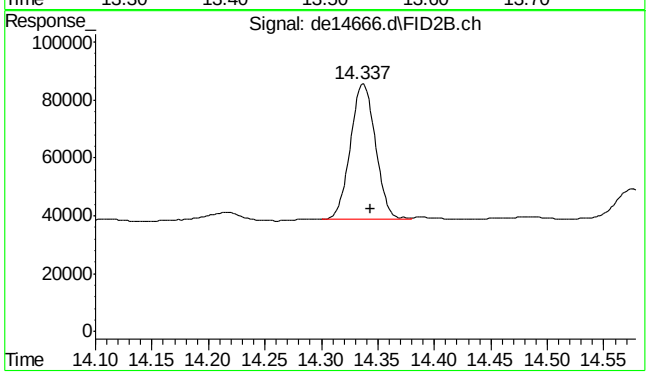

#37 c-24

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



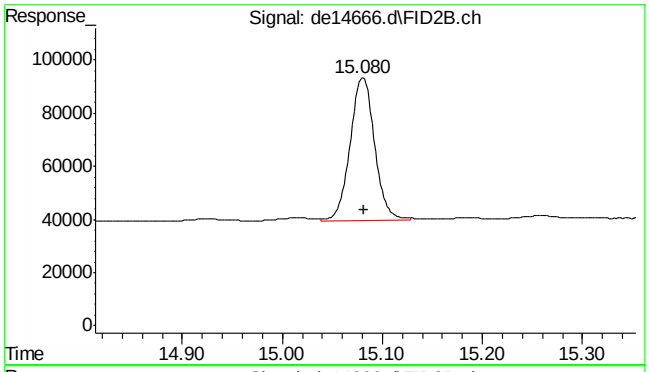

#39 c-28

R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 72455
Conc: 1.01 µg/ml



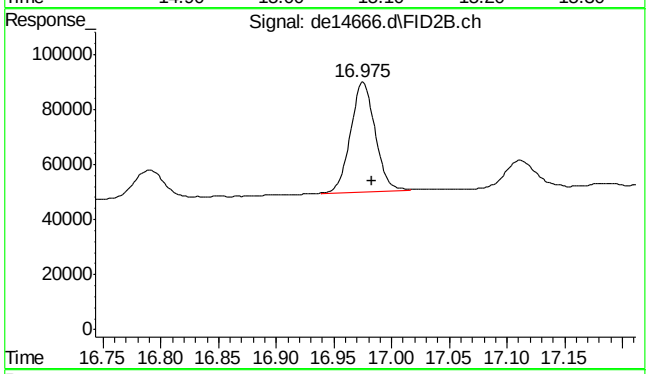


SGS ACCUTEST MC46487



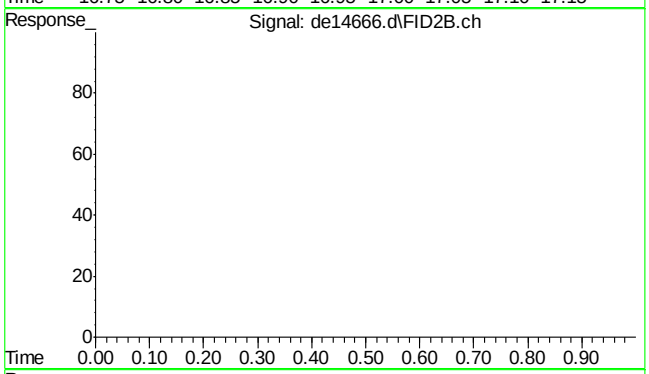

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 93535
Conc: 1.30 µg/ml m



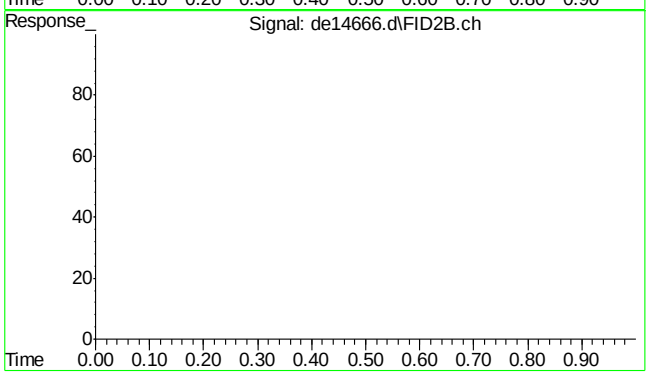

#41 c-36

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.



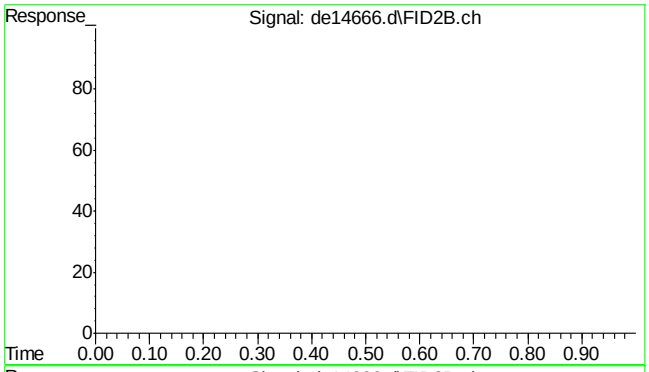

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



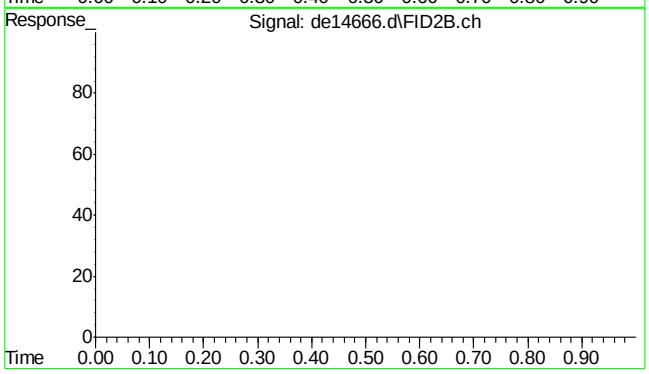


SGS ACCUTEST MC46487




#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```




#45 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

9.4.1

9



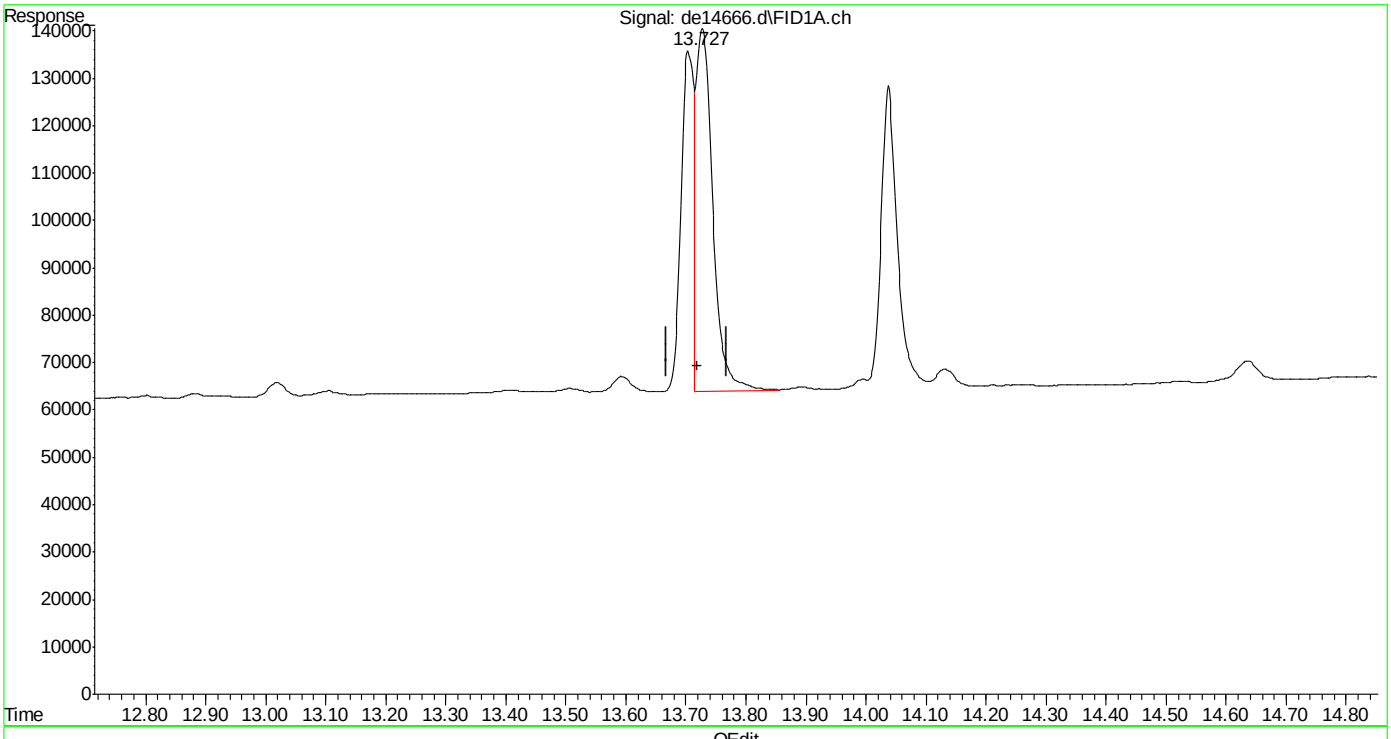
SGS ACCUTEST MC46487

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







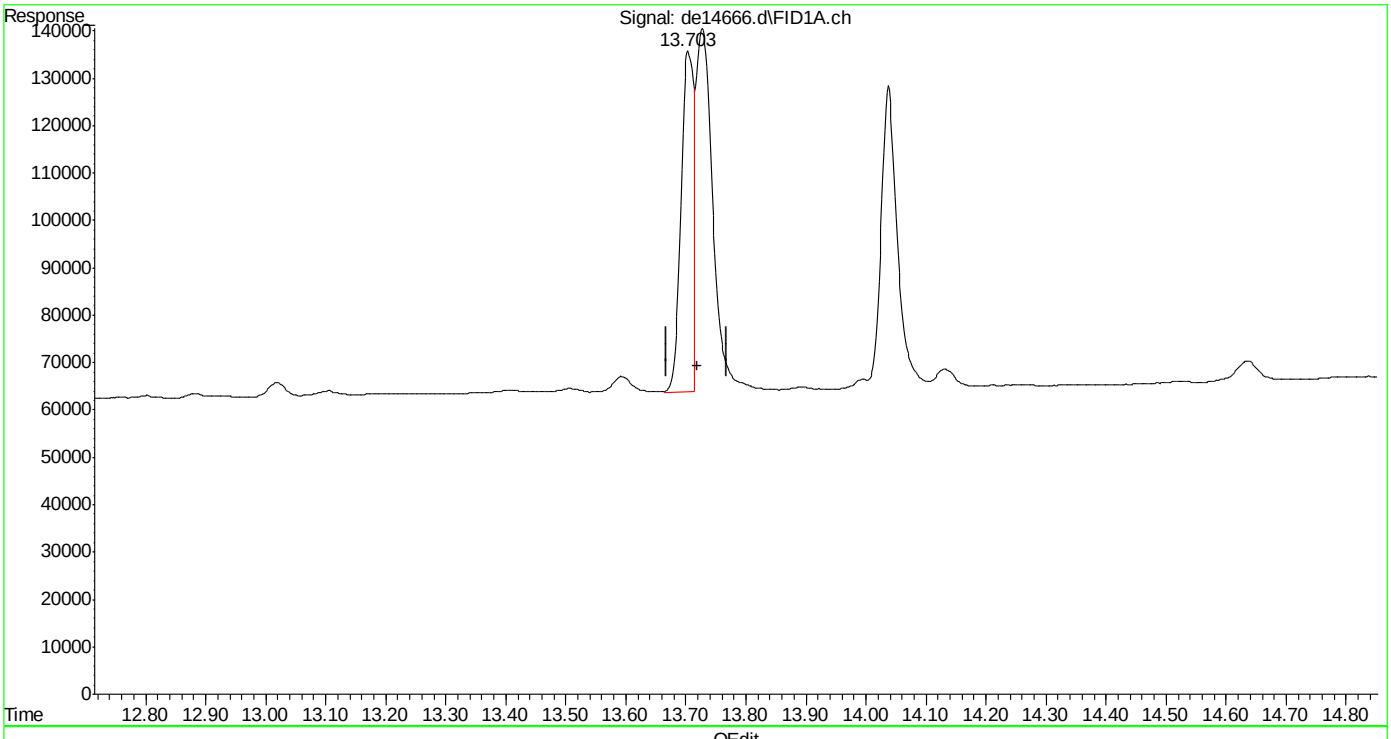
SGS ACCUTEST MC46487

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





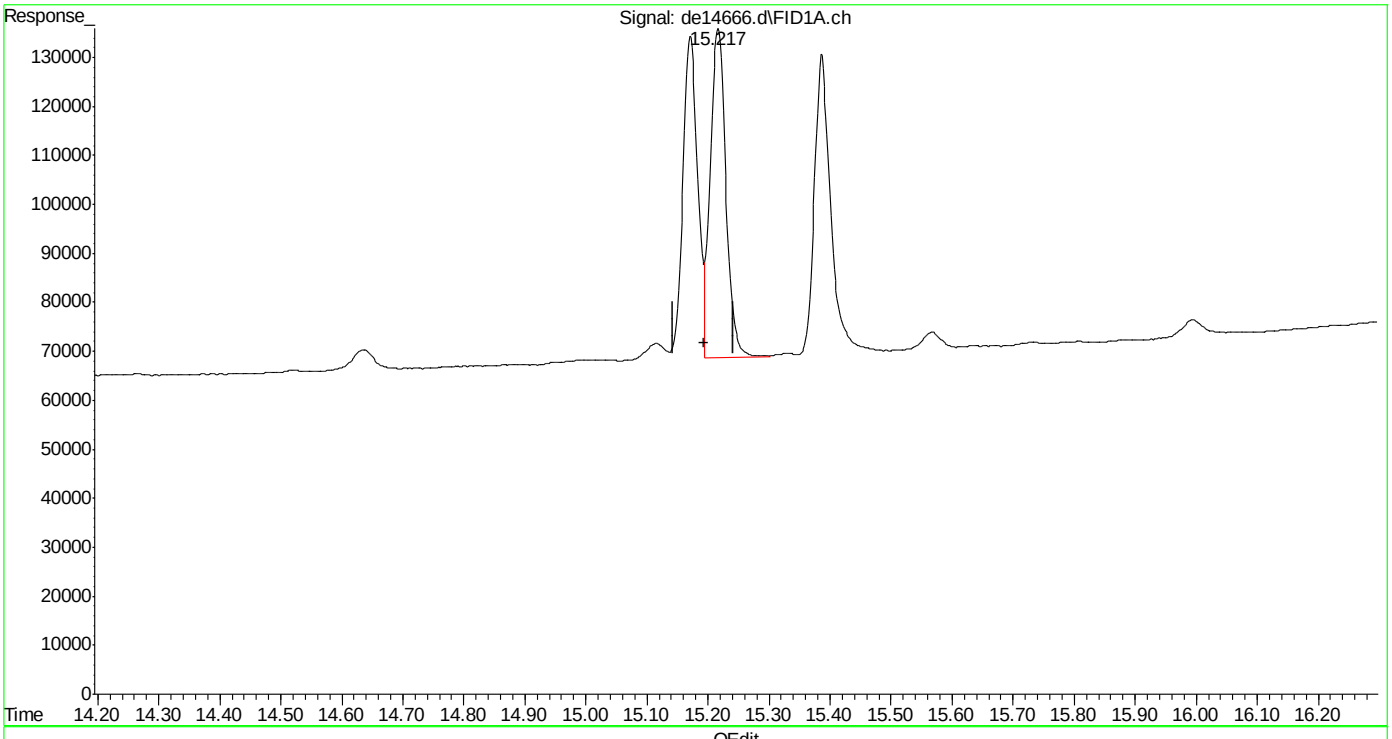
SGS ACCUTEST MC46487

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

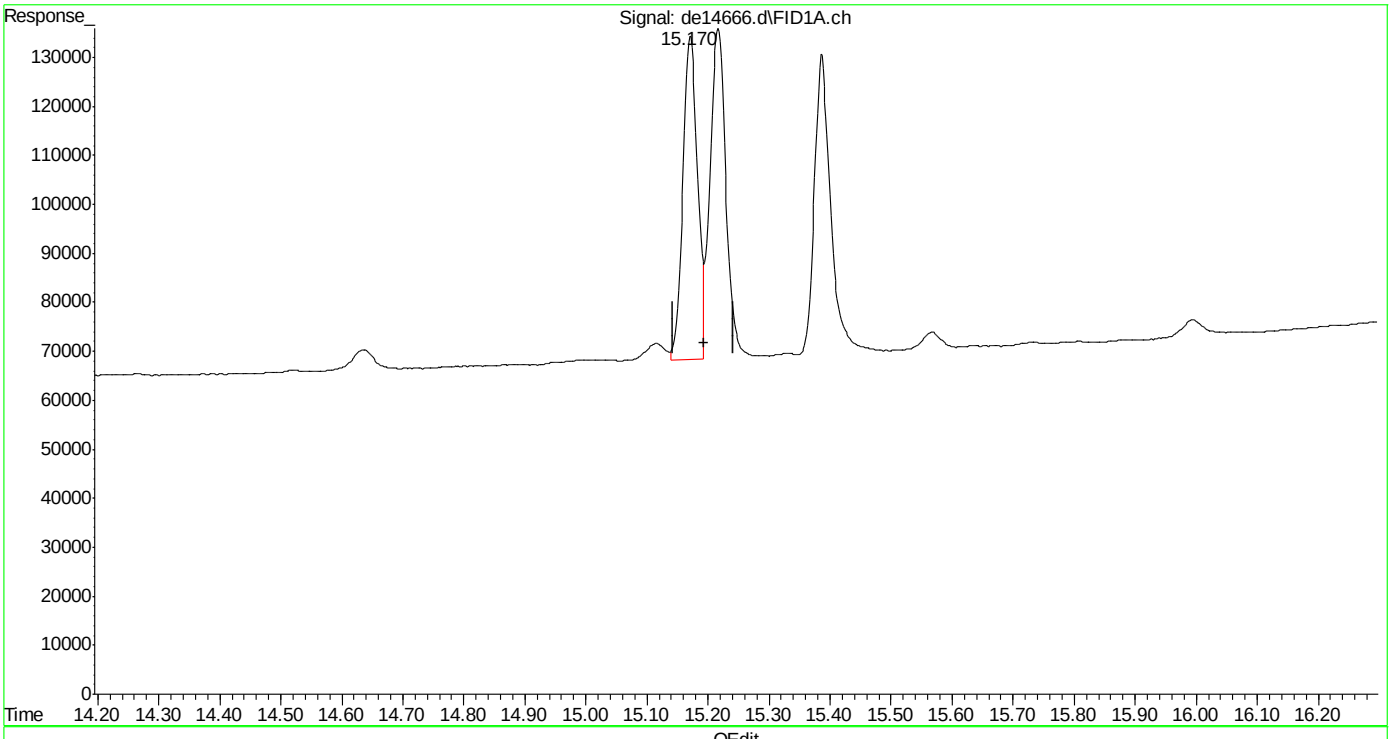
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:49:06 2016

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 :




(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





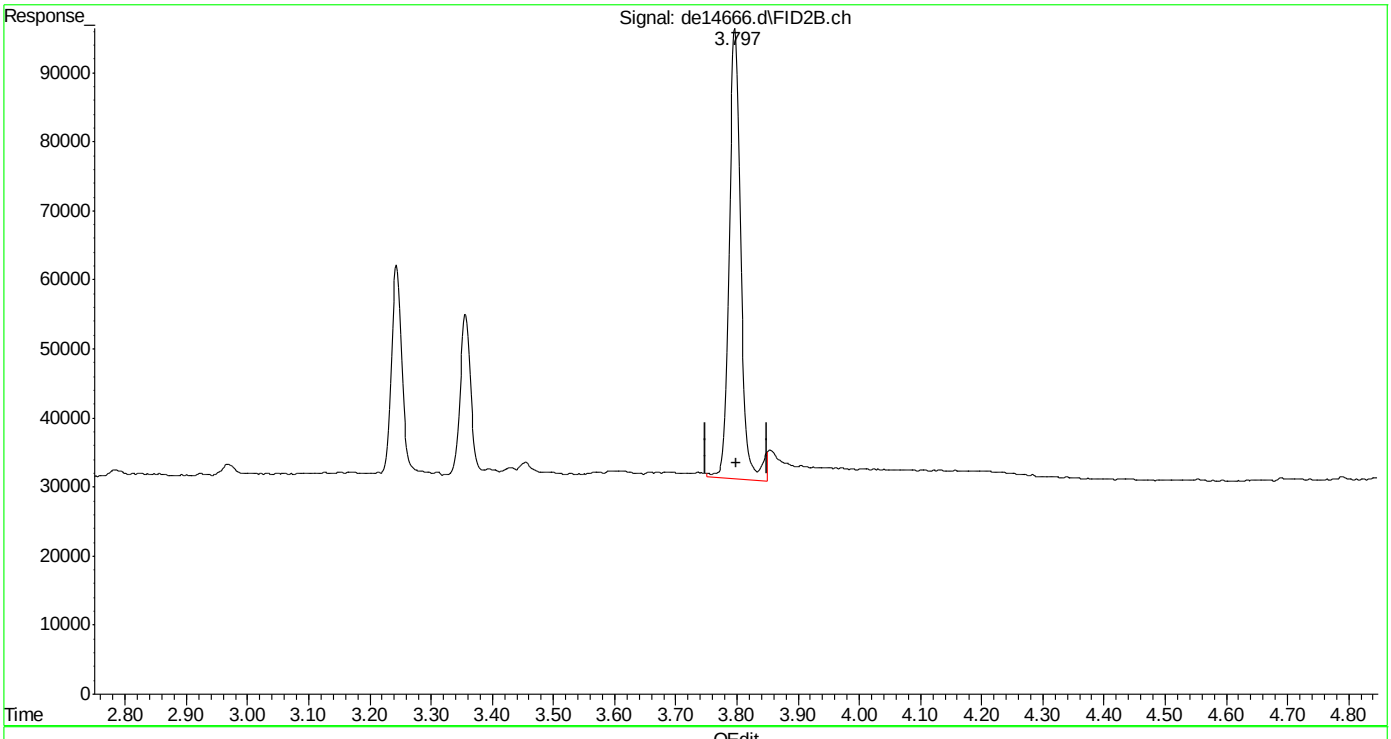
SGS ACCUTEST MC46487

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



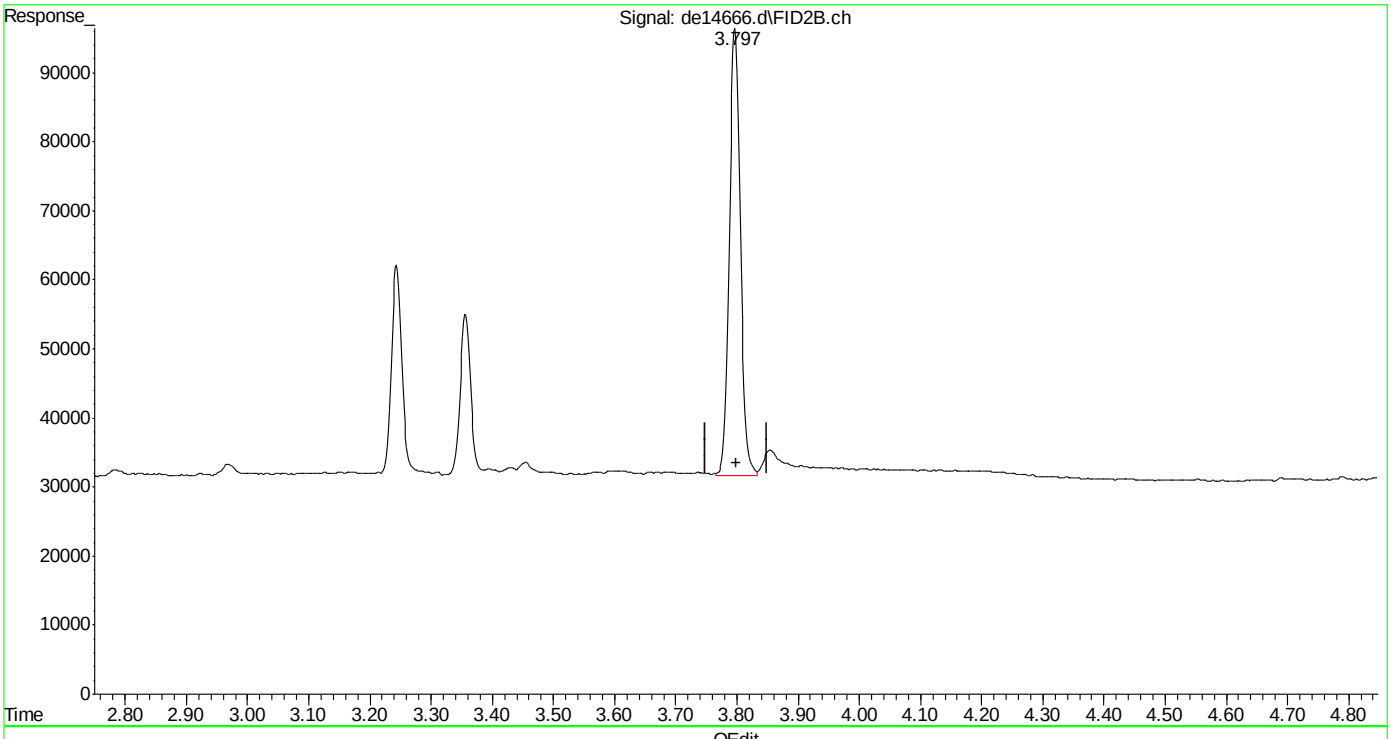
SGS ACCUTEST MC46487

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

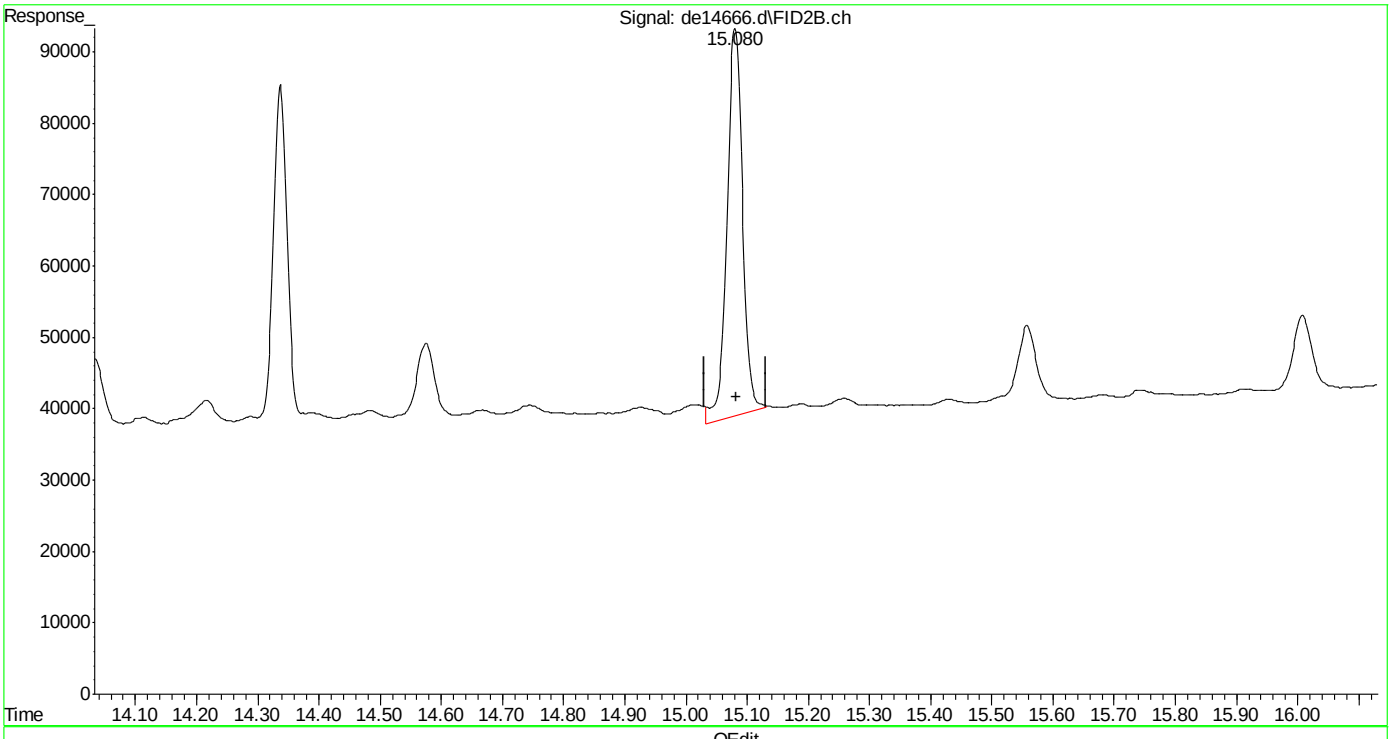
(+) = Expected Retention Time

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

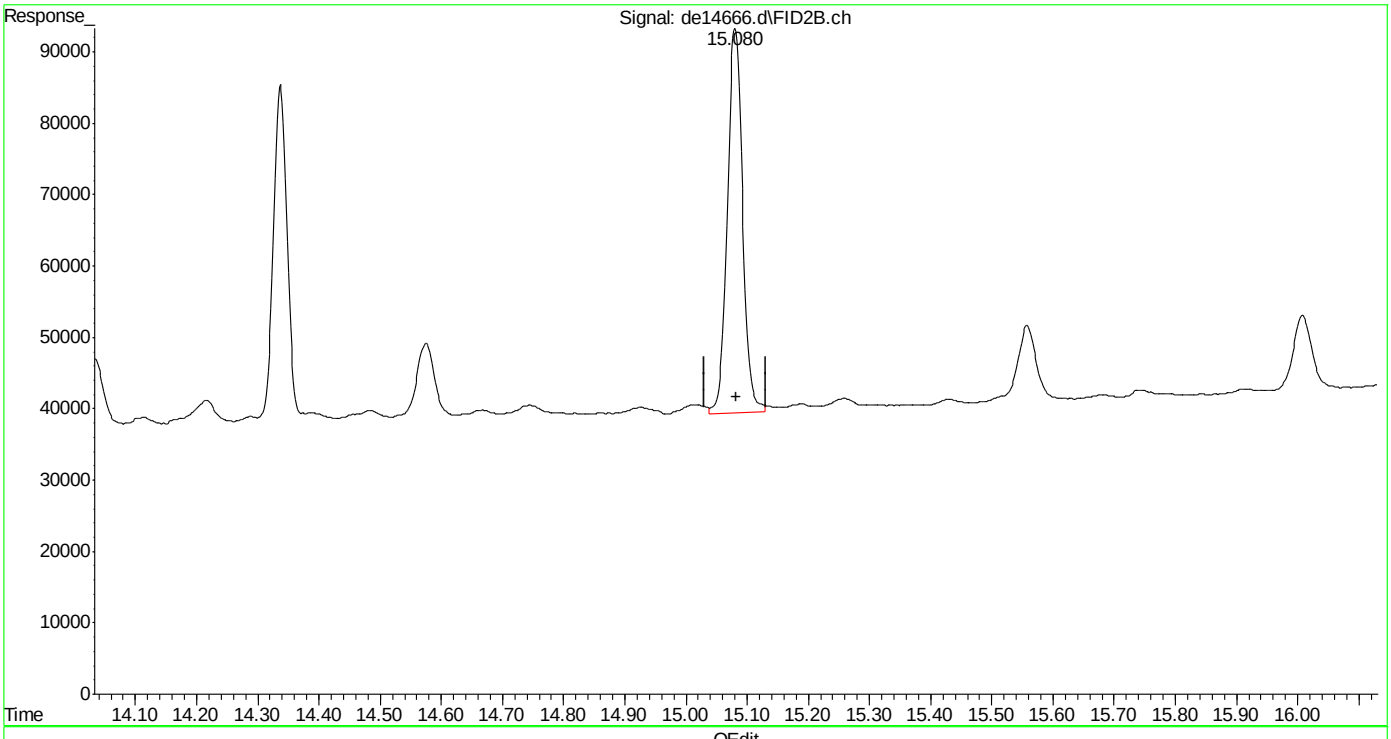
(+) = Expected Retention Time

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
EPH160622W.M Thu Jun 23 07:49:56 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 : 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

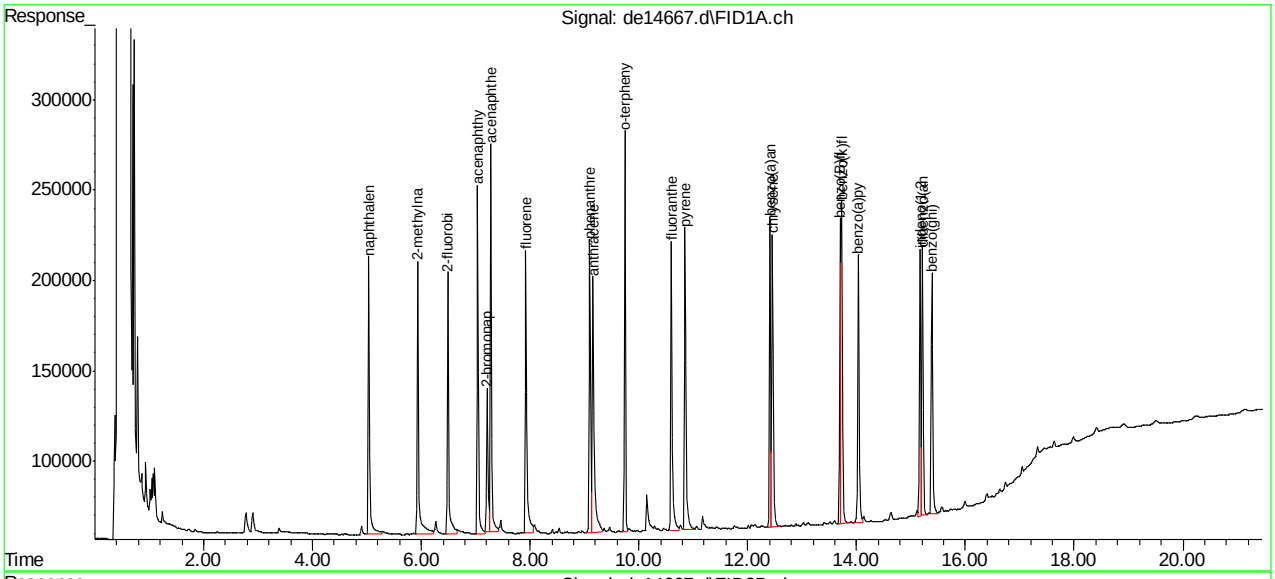
9

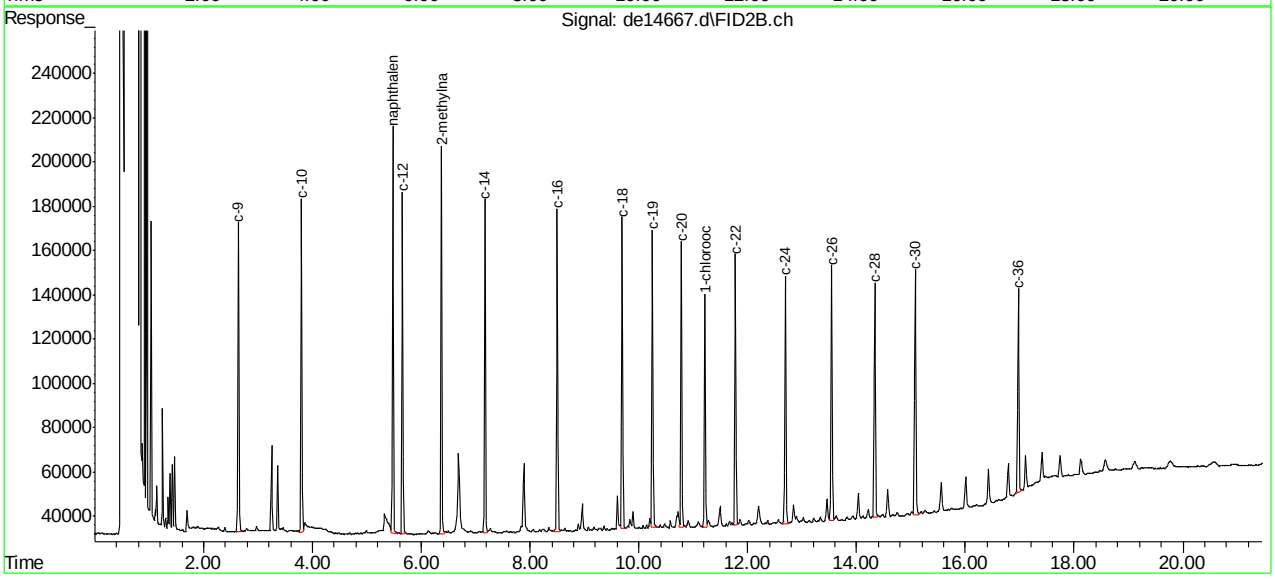
Quantitation Report (QT Reviewed)

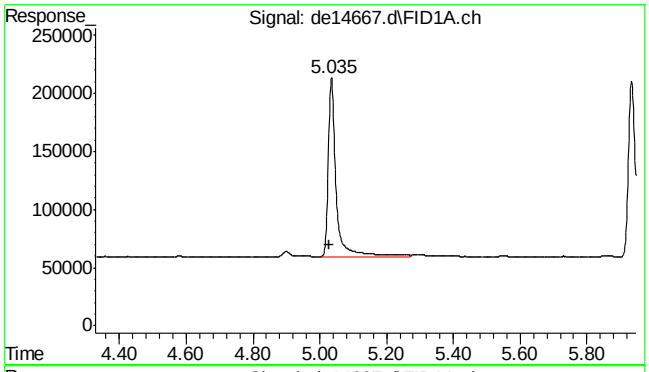
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14667.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 6:44 pm
Operator : thomasa
Sample : ic815-2 (Sig #1); cc815-2 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 104 Sample Multiplier: 1

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 :

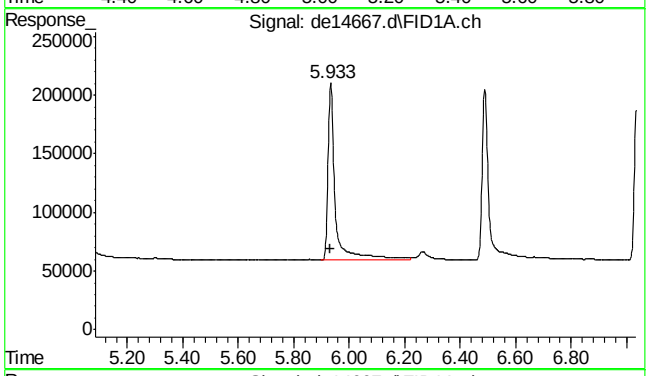




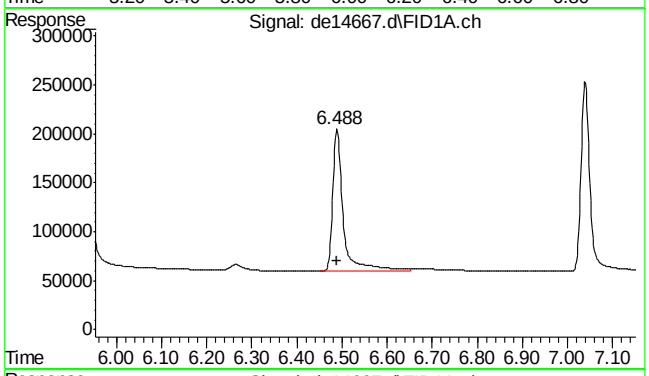

#2 naphthalene

R.T.: 5.035 min
Delta R.T.: 0.005 min
Response: 264011
Conc: 2.43 µg/ml



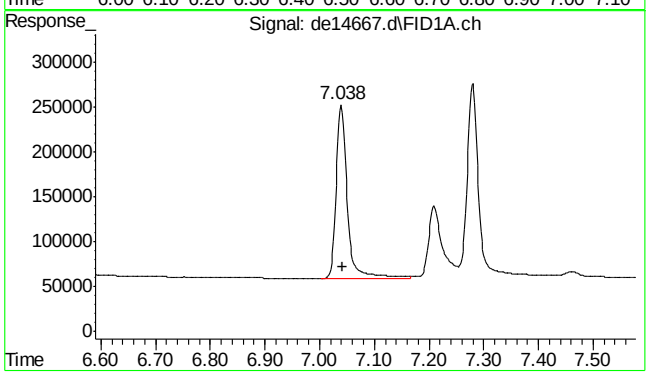

#3 2-methylnaphthalene

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

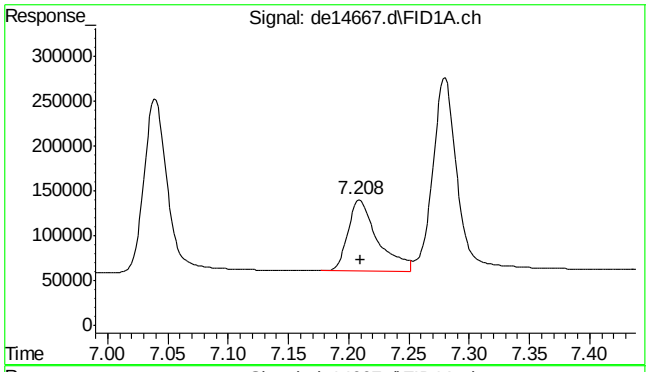
R.T.: 7.038 min
Delta R.T.: -0.003 min
Response: 273879
Conc: 2.55 µg/ml

9.4.2

9

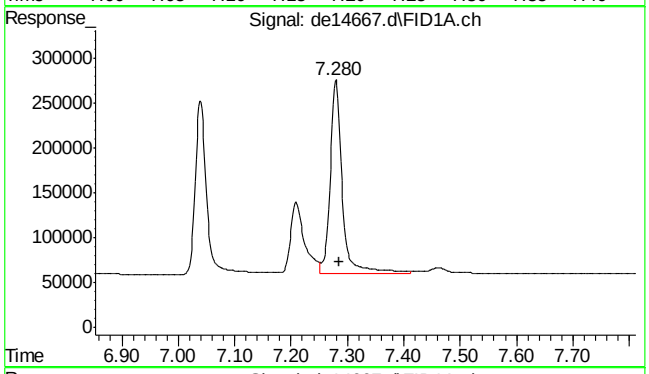


SGS ACCUTEST MC46487



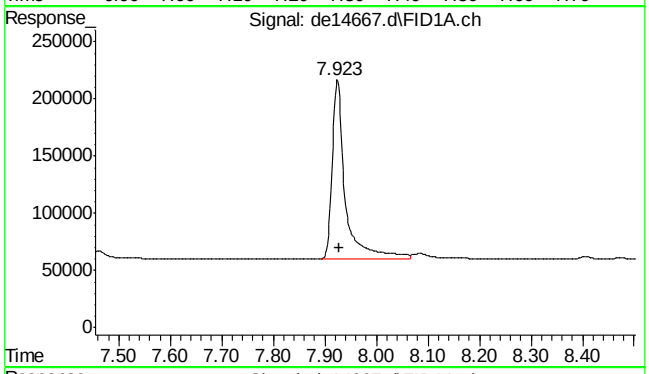

#6 2-bromonaphthalene

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 135704
Conc: 2.11 µg/ml



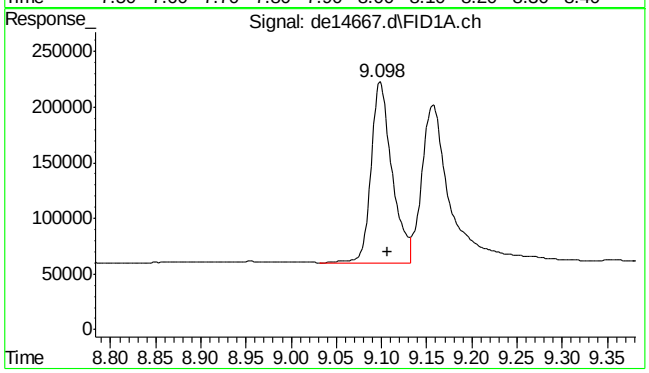

#7 acenaphthene

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





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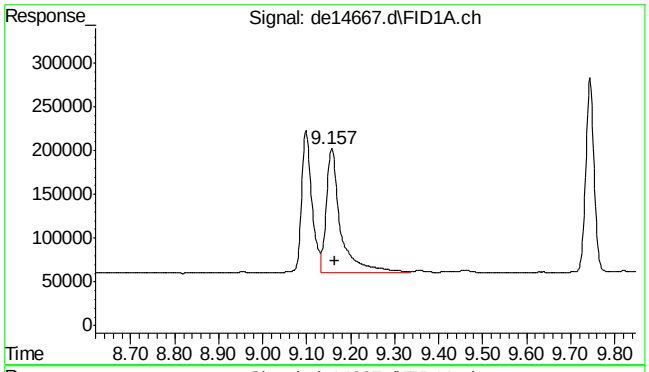
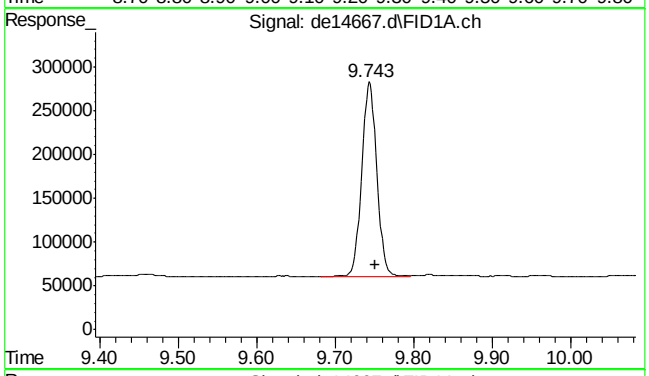


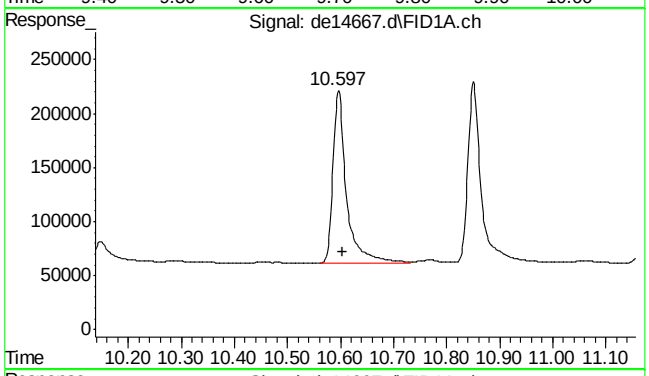

#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 321096
Conc: 2.99 µg/ml



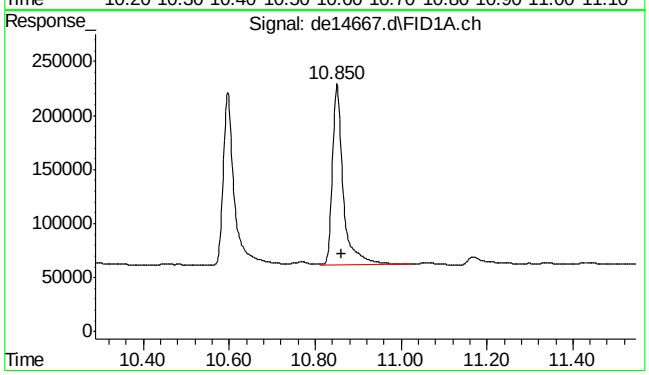

#11 o-terphenyl

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



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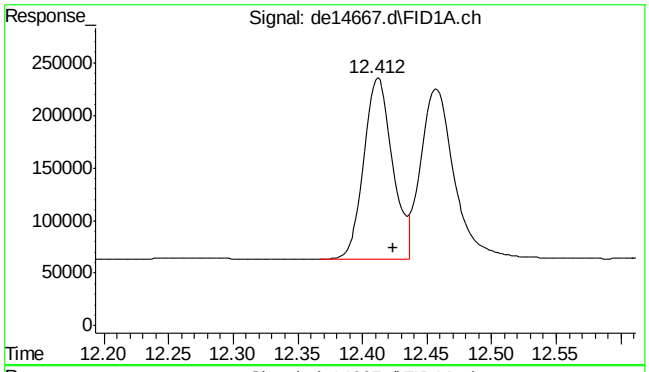
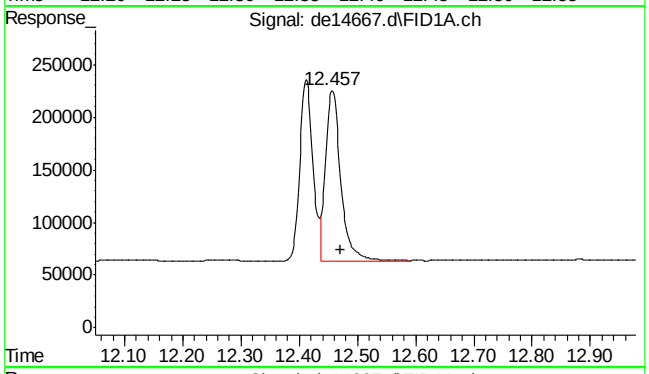


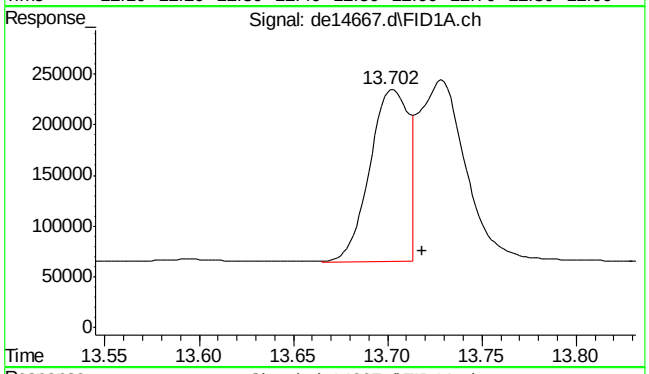

#14 benzo(a)anthracene

R.T.: 12.412 min
Delta R.T.: -0.012 min
Response: 269926
Conc: 2.62 µg/ml



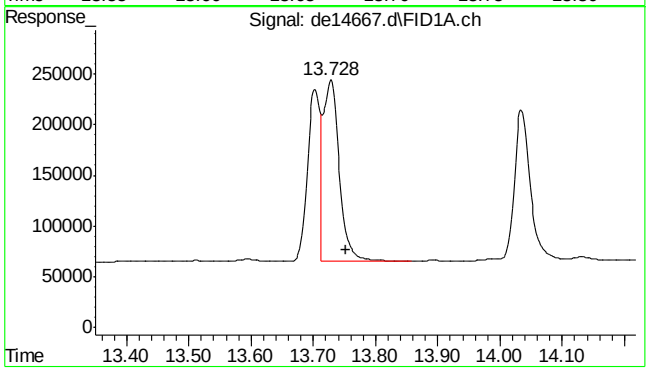

#15 chrysene

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



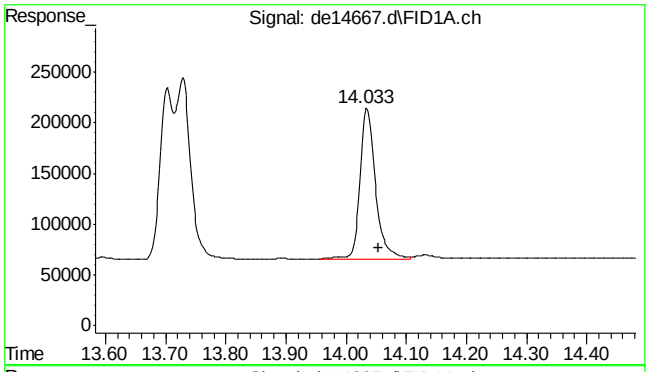

#17 benzo(k)fluoranthene

R.T.: 13.728 min
Delta R.T.: -0.025 min
Response: 320118
Conc: 3.04 µg/ml



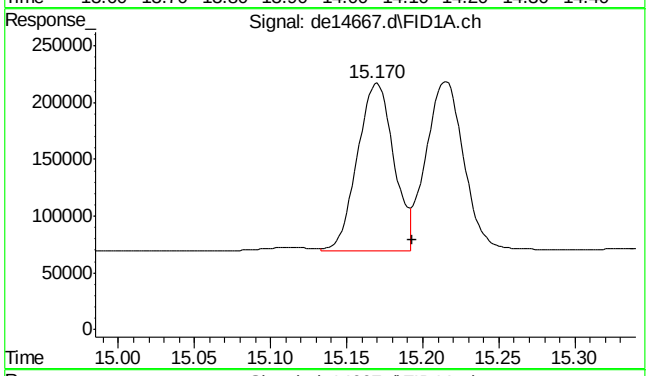


SGS ACCUTEST MC46487



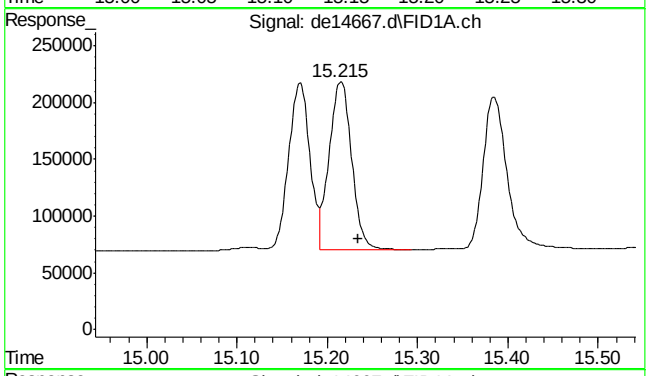

#18 benzo(a)pyrene

R.T.: 14.033 min
Delta R.T.: -0.020 min
Response: 266332
Conc: 2.67 µg/ml



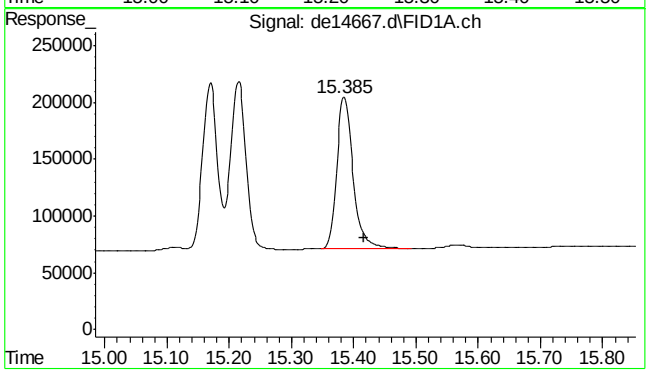

#19 indeno(1,2,3-cd)pyrene

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



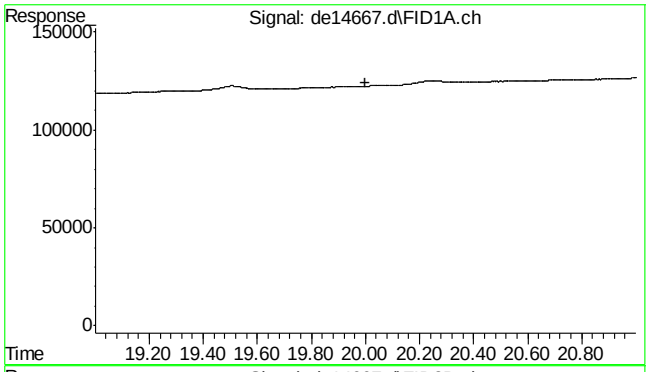

#21 benzo(ghi)perylene

R.T.: 15.385 min
Delta R.T.: -0.032 min
Response: 246509
Conc: 2.51 µg/ml



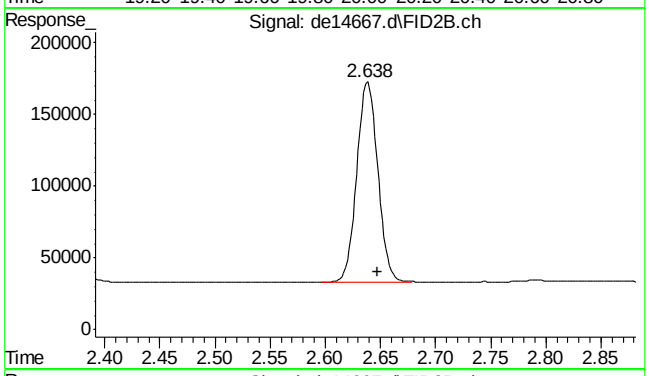


SGS ACCUTEST MC46487



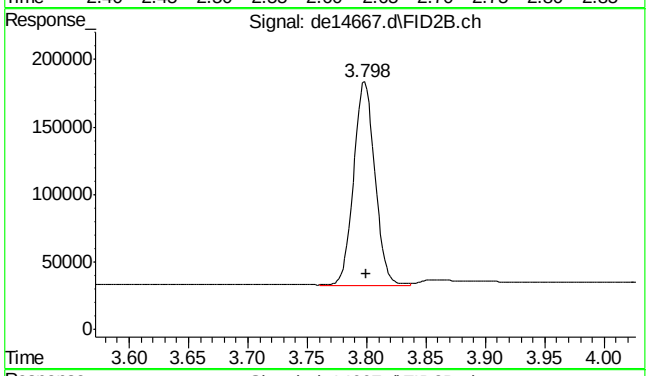

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



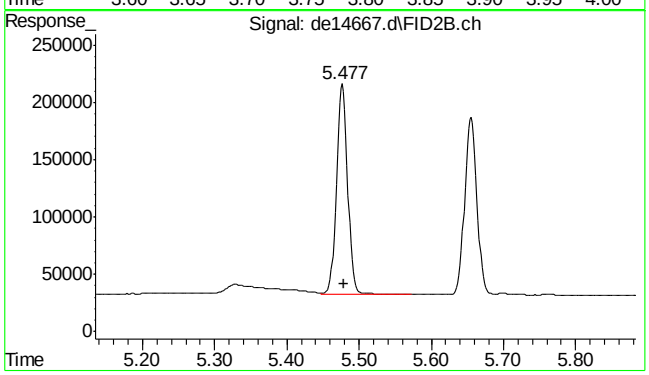

#25 c-9

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

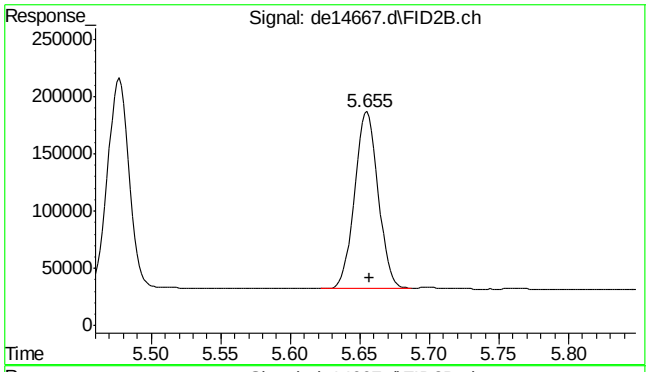
R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 200322
Conc: 2.42 µg/ml

9.4.2

9

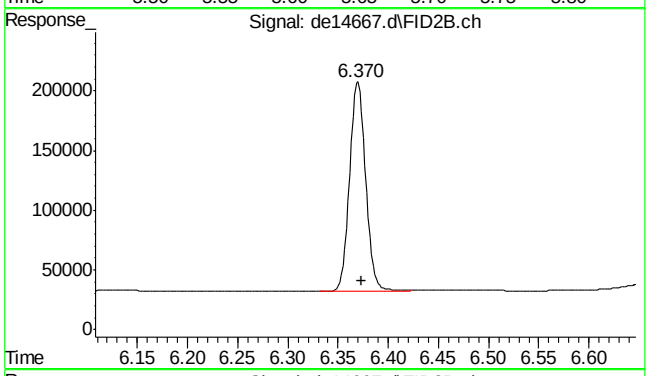


SGS ACCUTEST MC46487



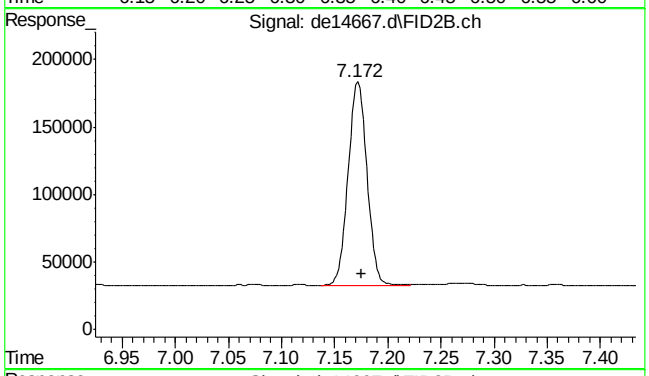

#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 183928
Conc: 2.31 µg/ml



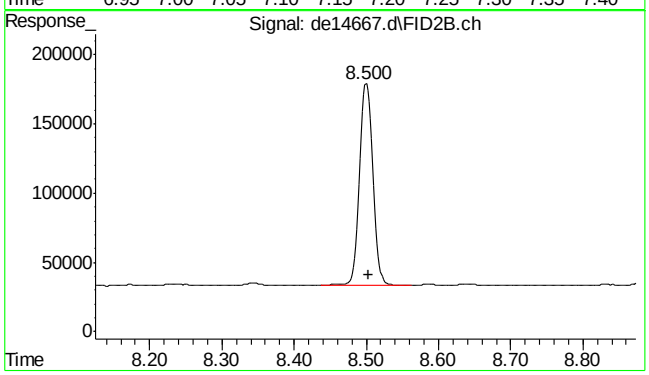

#29 2-methylnaphthalene #2

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



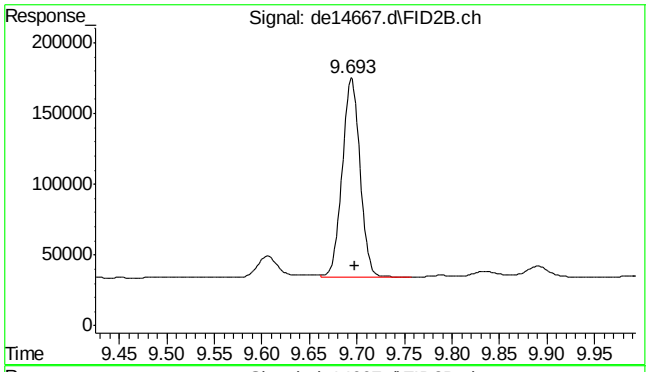

#31 c-16

R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 188090
Conc: 2.34 µg/ml



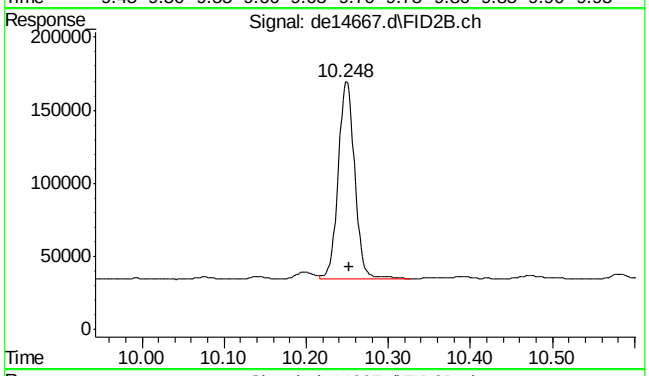


SGS ACCUTEST MC46487



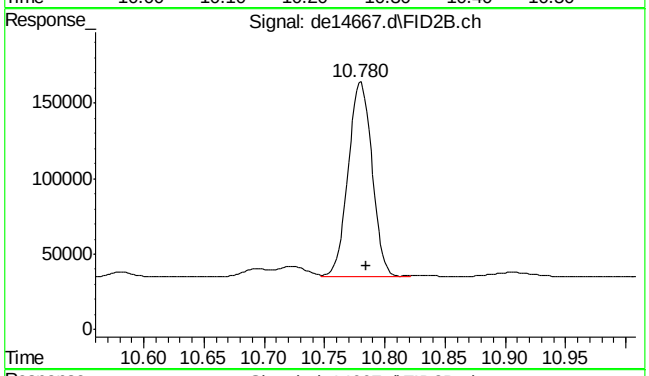

#32 c-18

R.T.: 9.693 min
Delta R.T.: -0.005 min
Response: 183338
Conc: 2.32 µg/ml



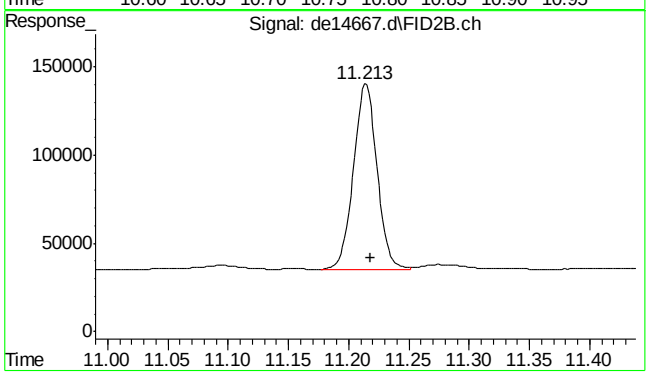

#33 c-19

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



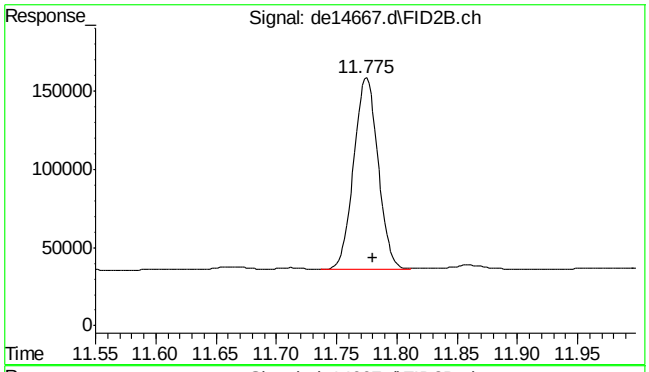

#35 1-chlorooctadecane

R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 143160
Conc: 2.44 µg/ml



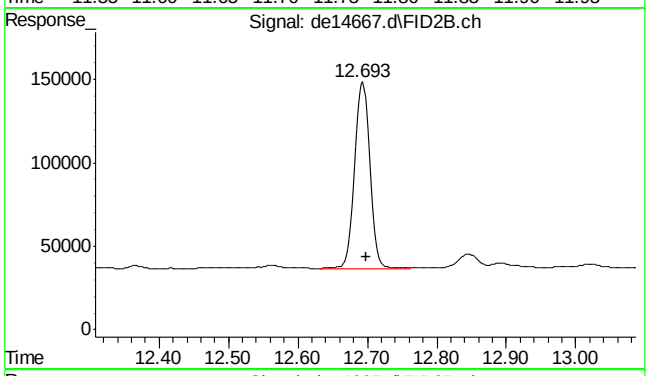


SGS ACCUTEST MC46487



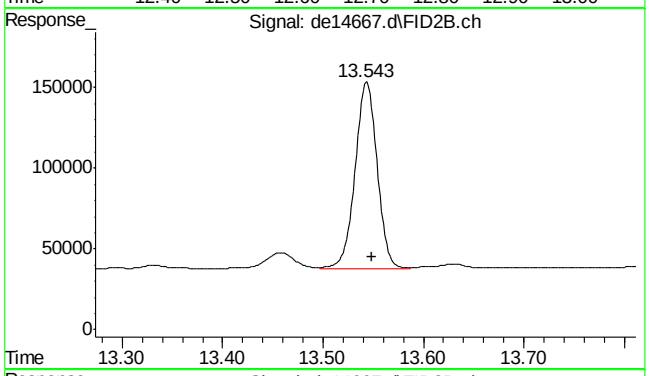

#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 172417
Conc: 2.28 µg/ml



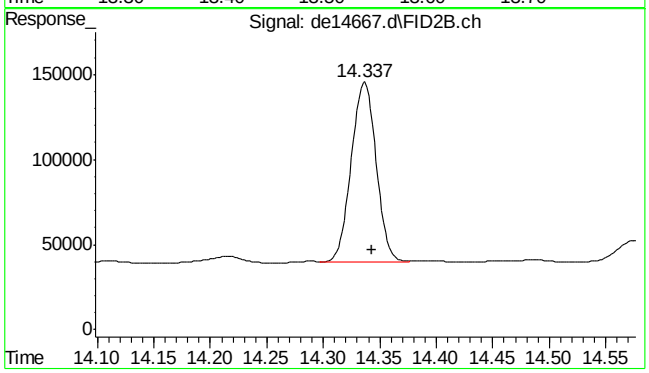

#37 c-24

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



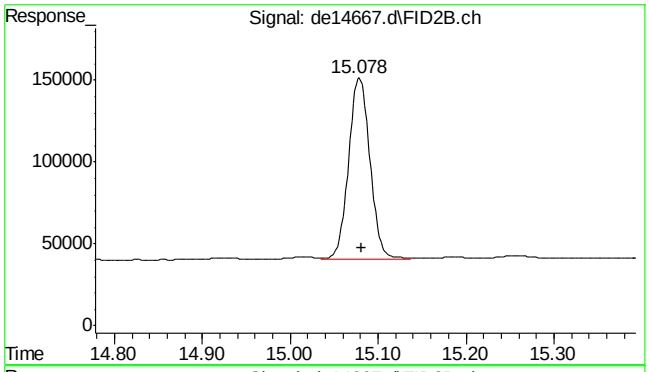

#39 c-28

R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 160693
Conc: 2.23 µg/ml



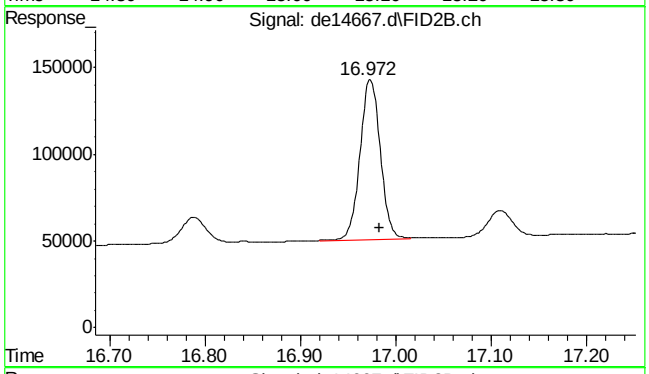


SGS ACCUTEST MC46487



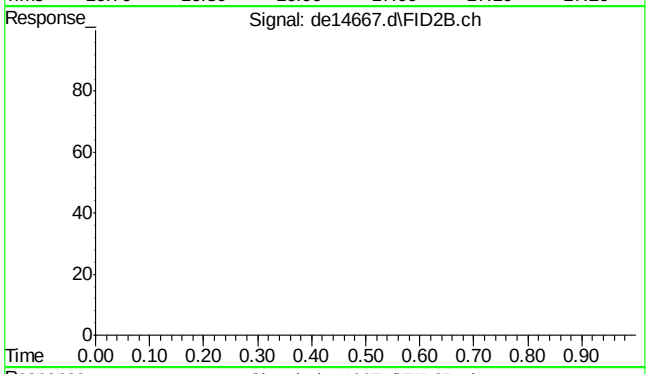

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 187403
Conc: 2.37 µg/ml m



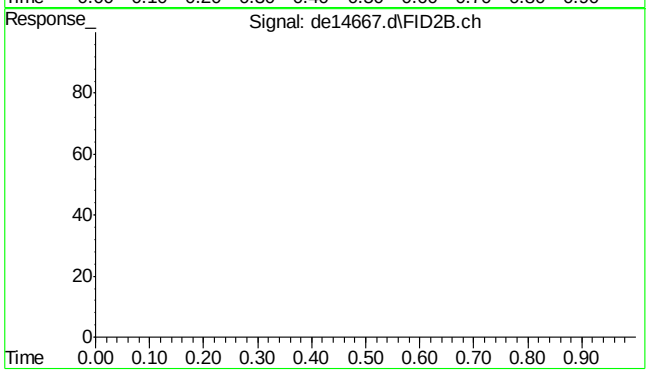

#41 c-36

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.



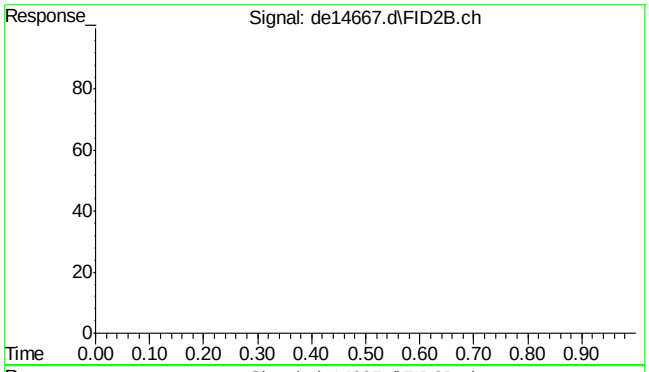

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



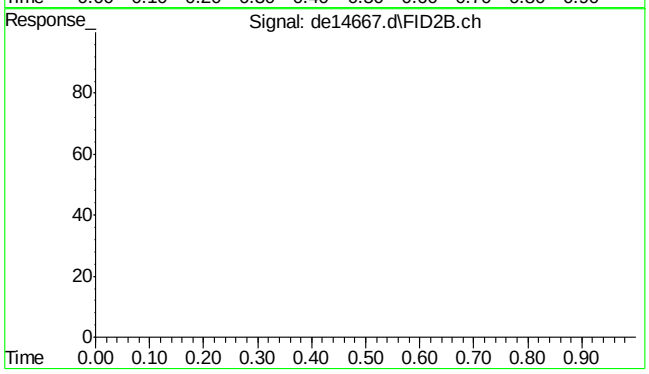


SGS ACCUTEST MC46487




#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.





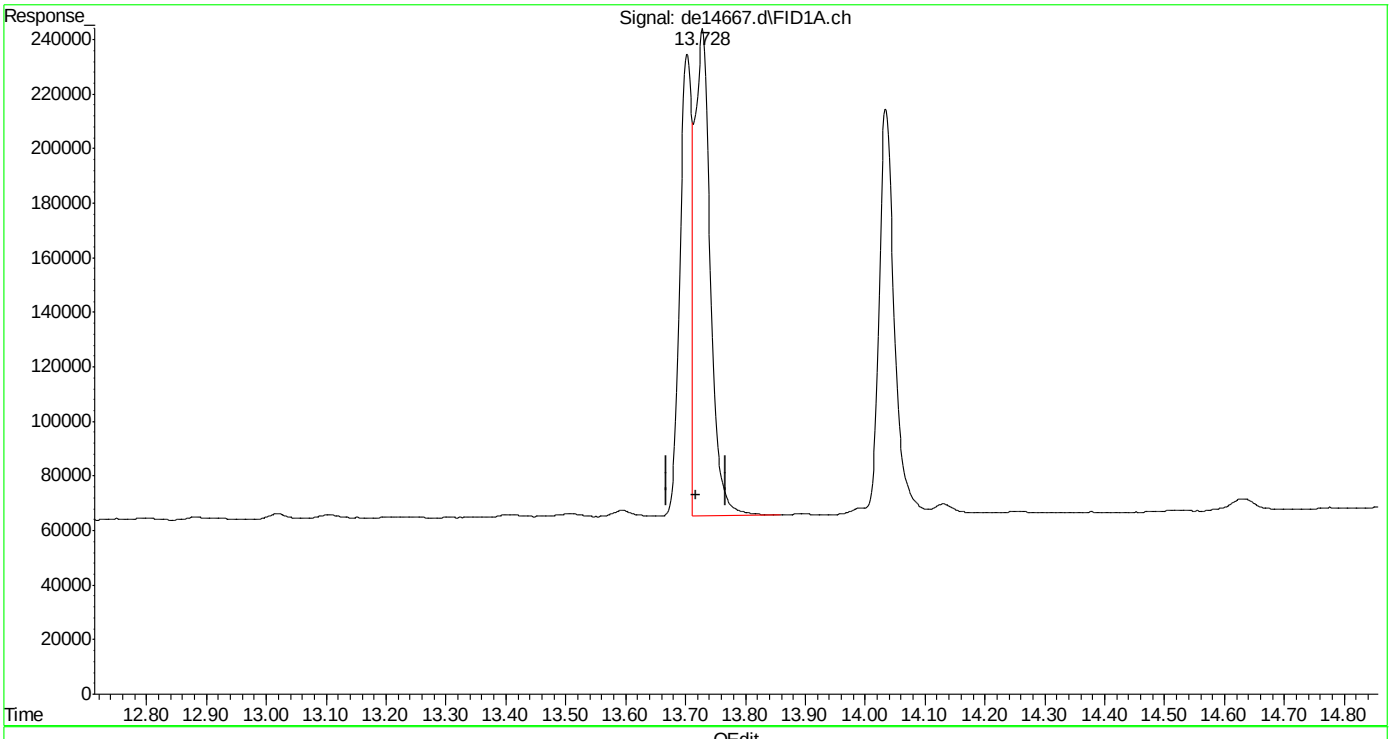
SGS ACCUTEST MC46487

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

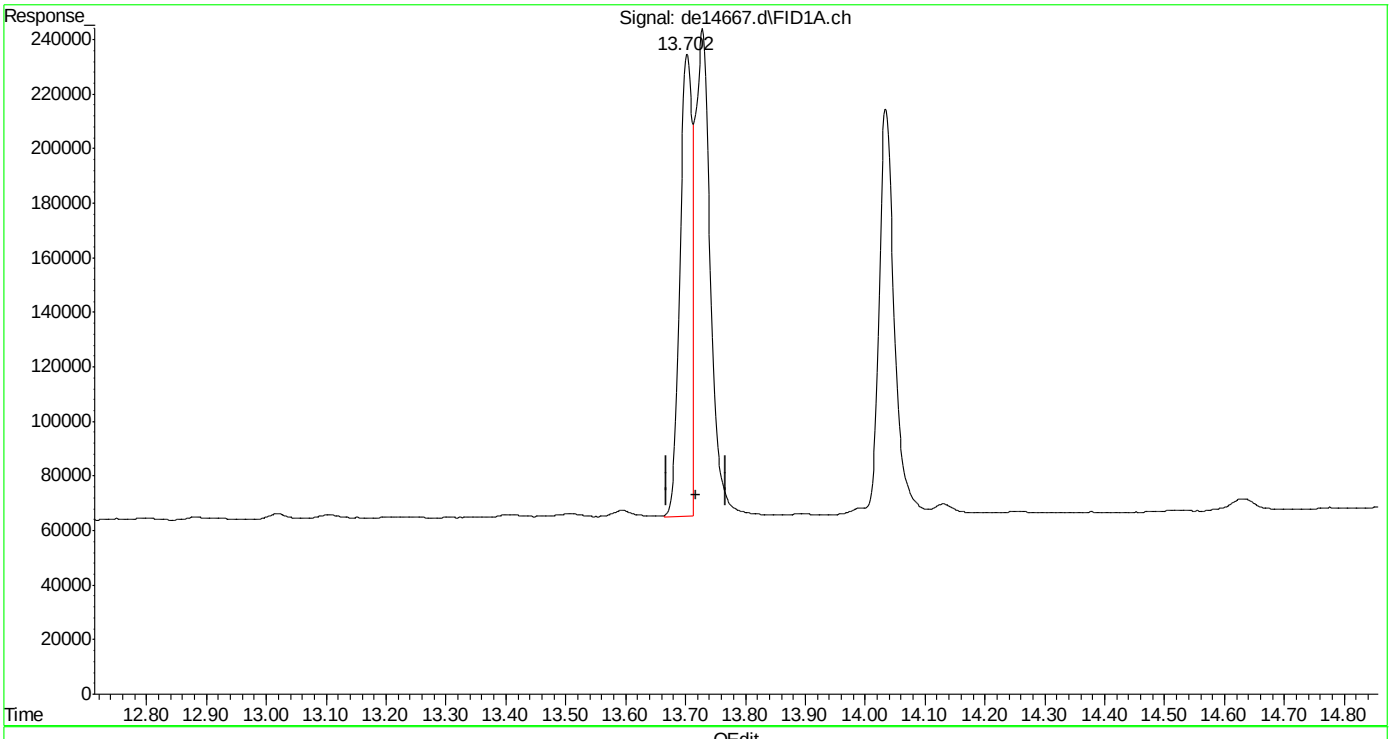
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:40 2016

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

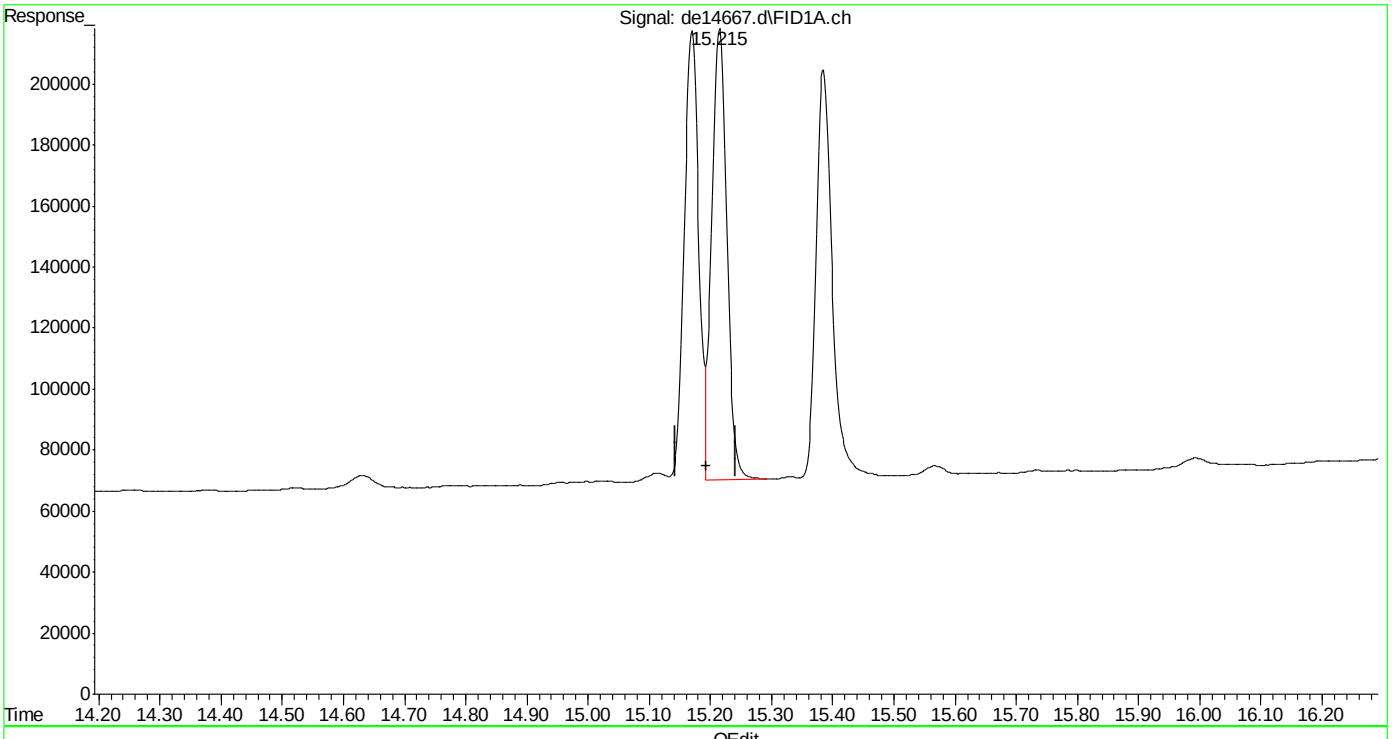
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:51 2016

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

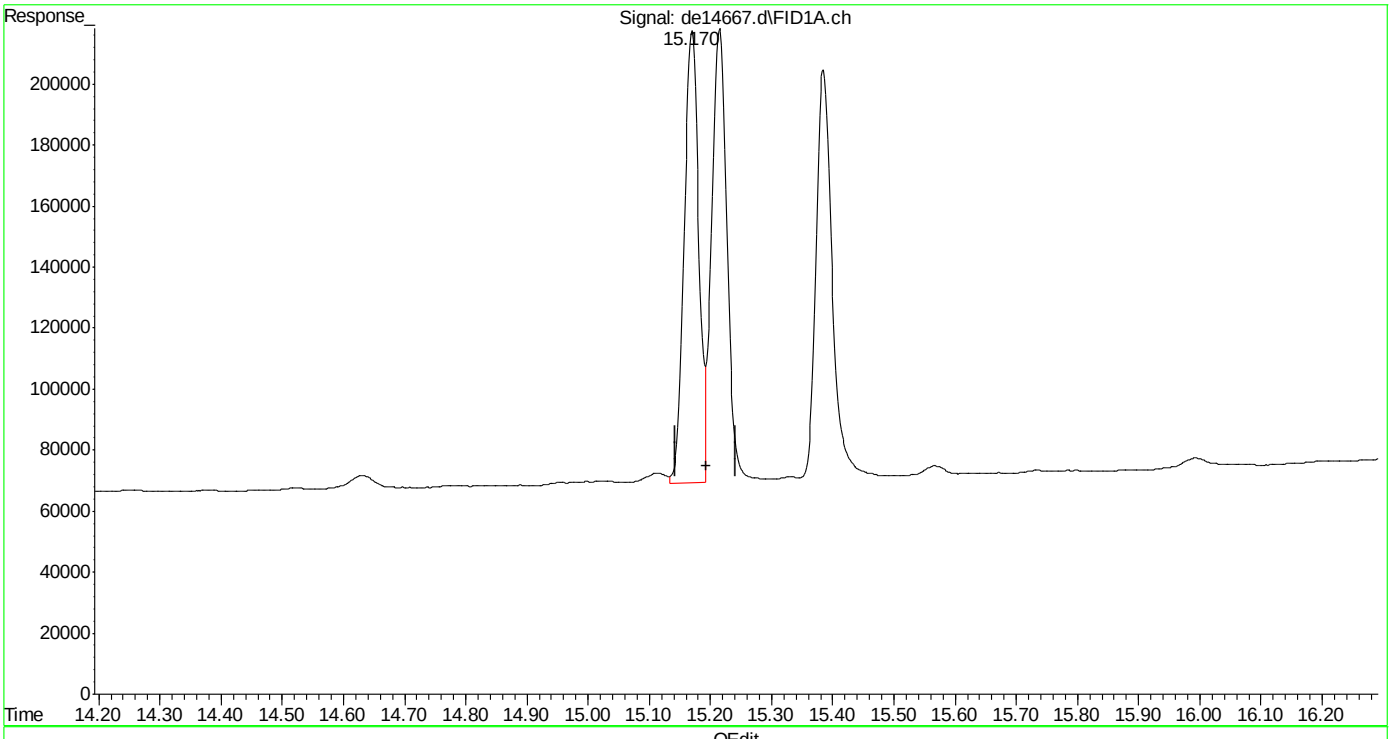
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:50:55 2016

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





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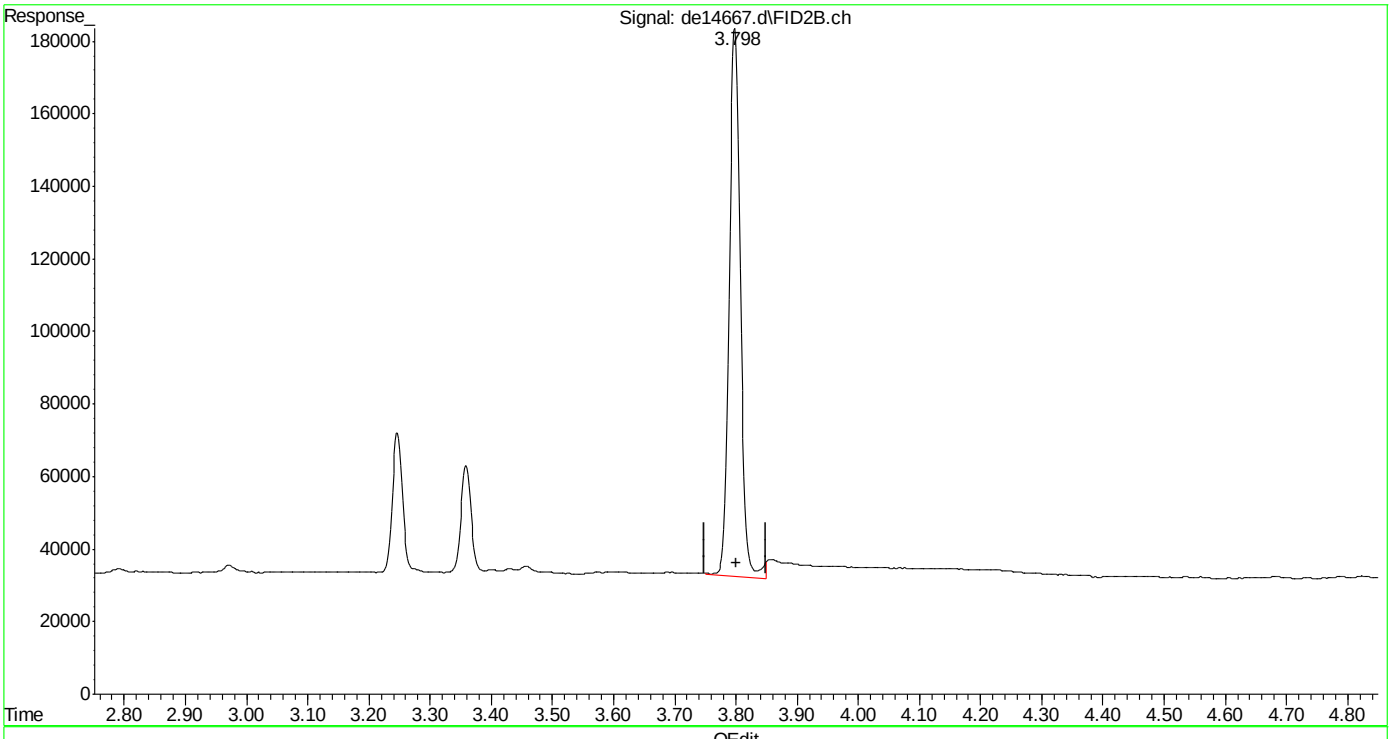
Quantitation Report (Qedit)

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

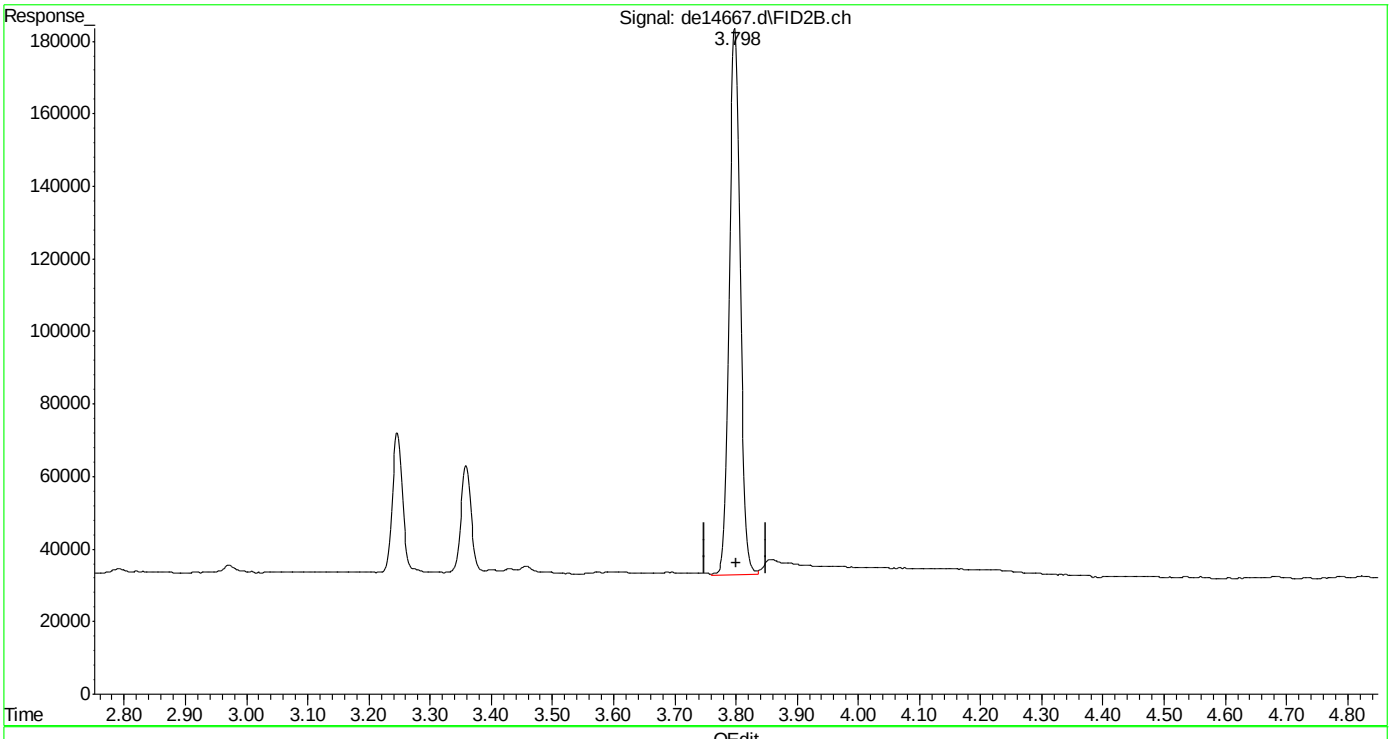
(+) = Expected Retention Time

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

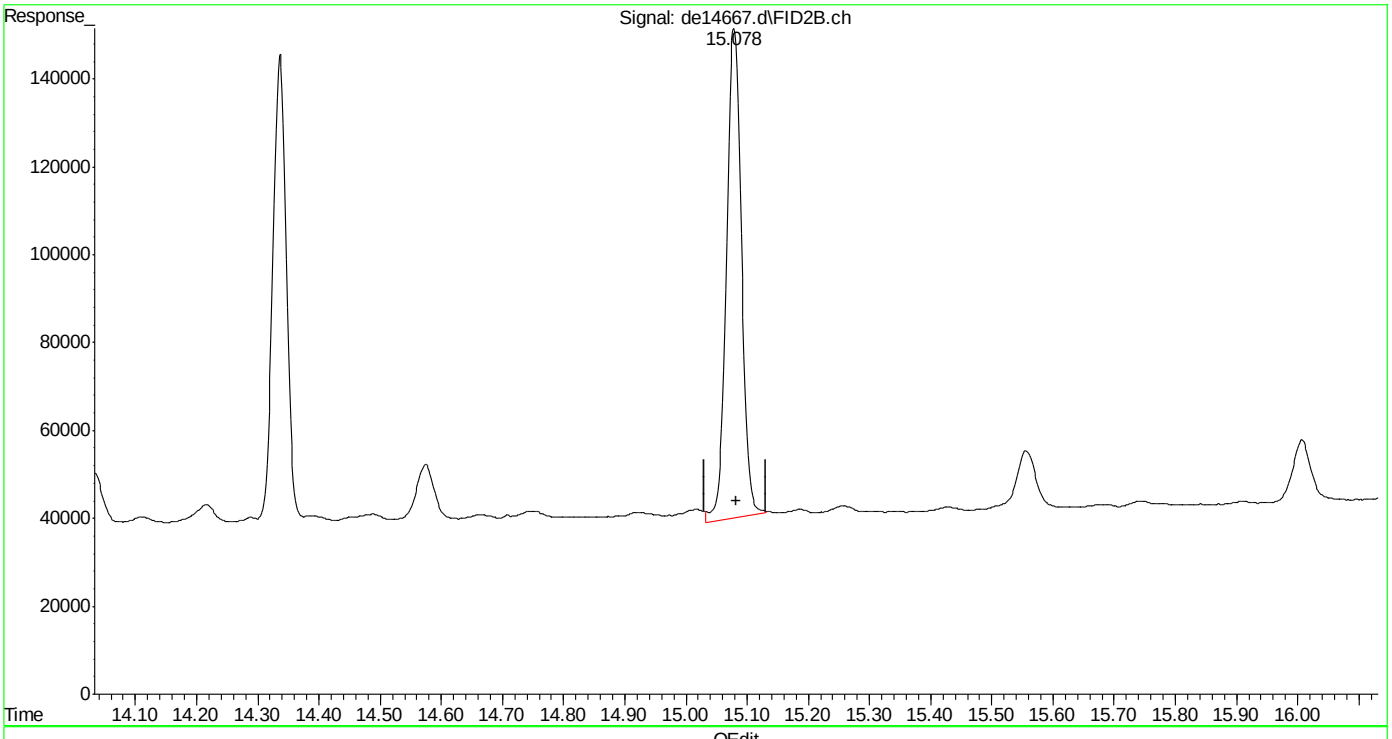
(+) = Expected Retention Time

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

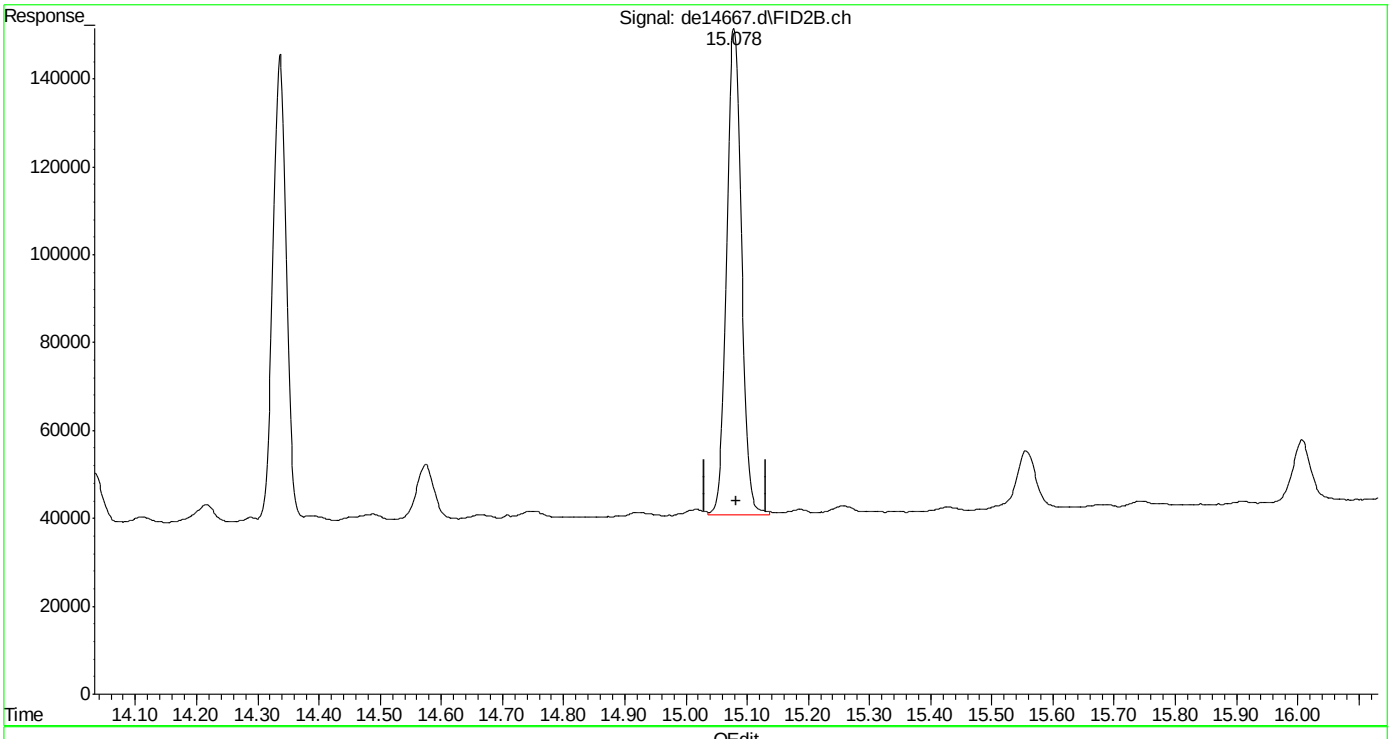
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:51:27 2016

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 :




(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





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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



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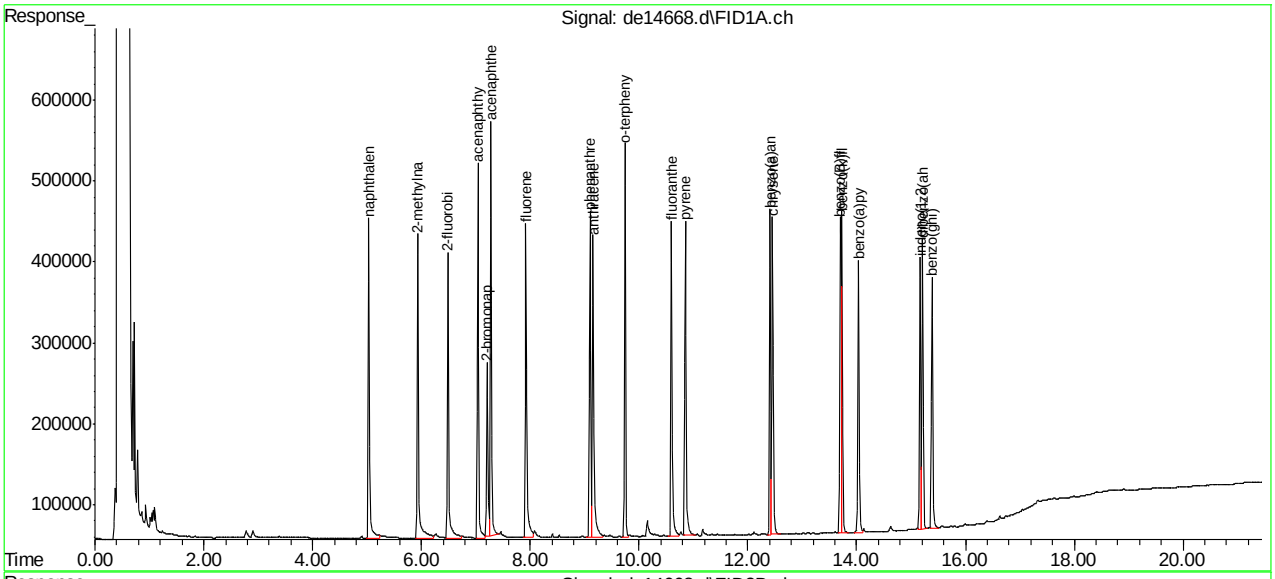
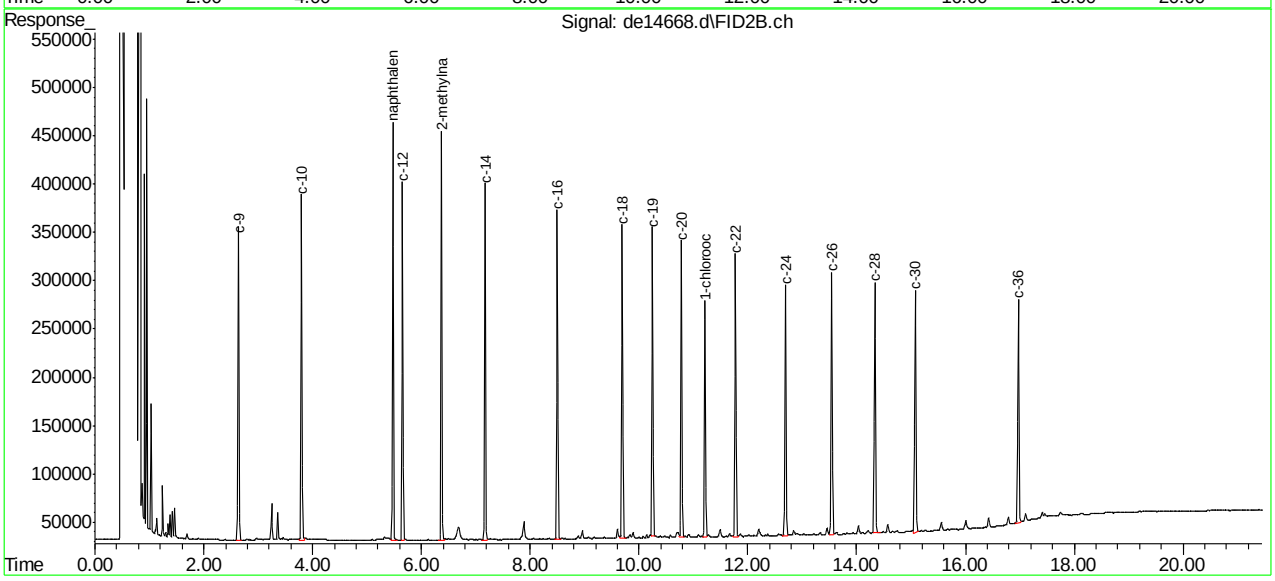
Quantitation Report (QT Reviewed)

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

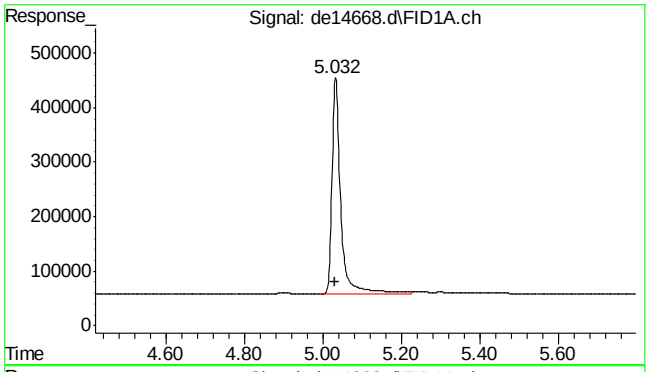
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



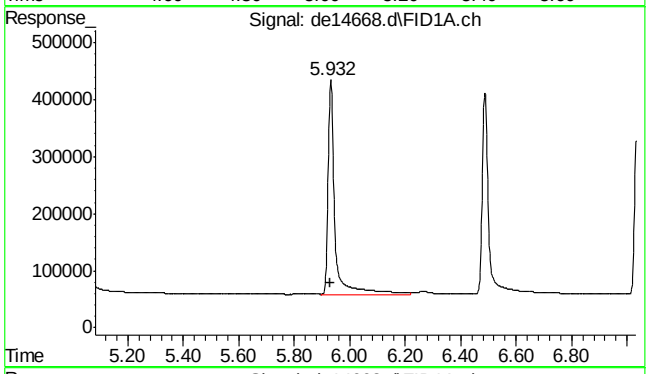



SGS ACCUTEST MC46487



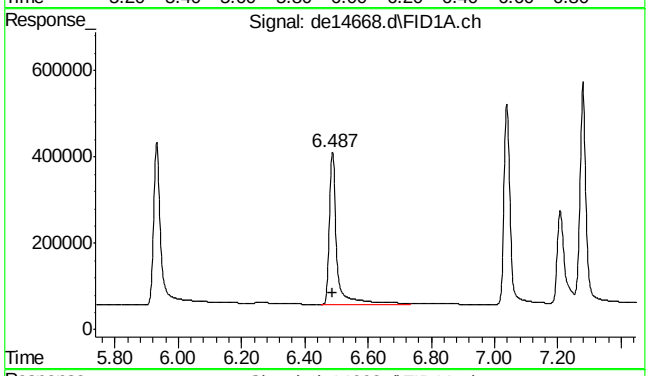

#2 naphthalene

R.T.: 5.032 min
Delta R.T.: 0.002 min
Response: 613912
Conc: 5.44 µg/ml



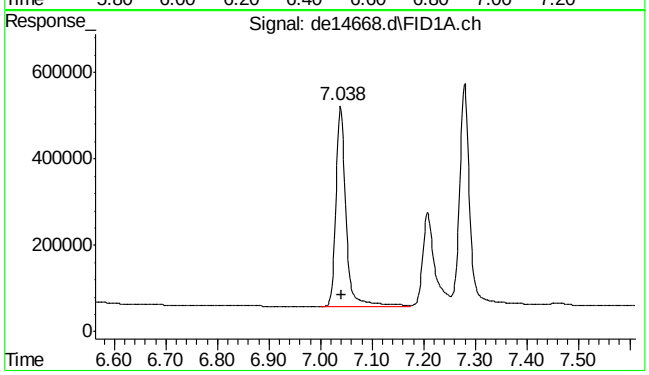

#3 2-methylnaphthalene

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

9.4.3

9



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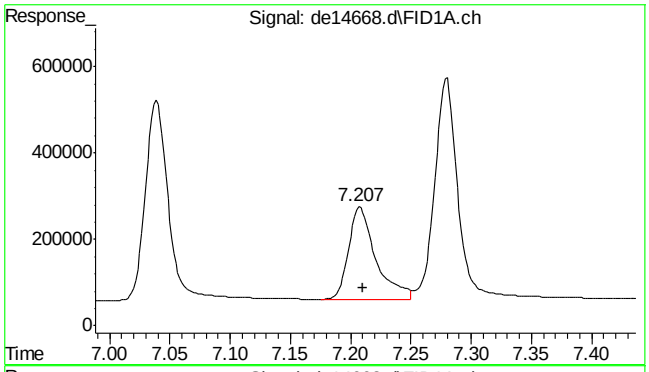
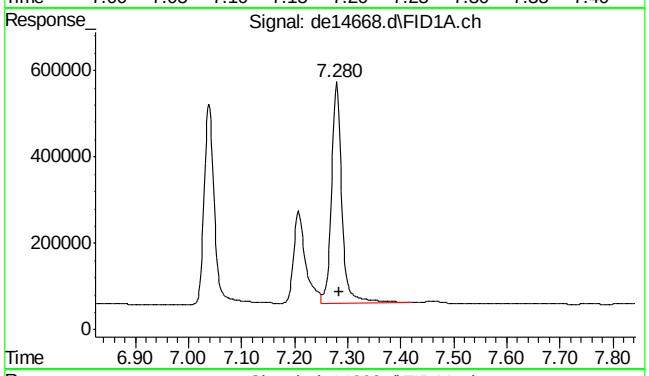


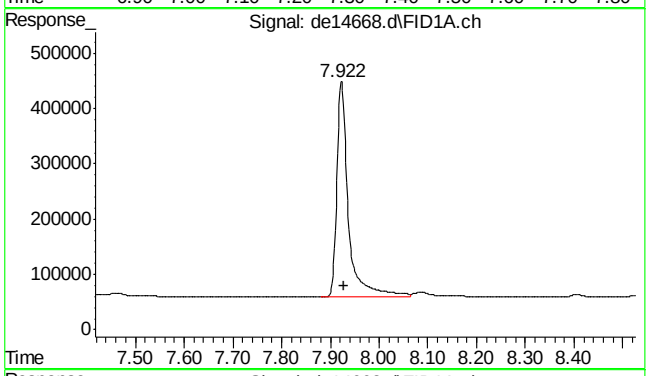

#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 337863
Conc: 5.19 µg/ml



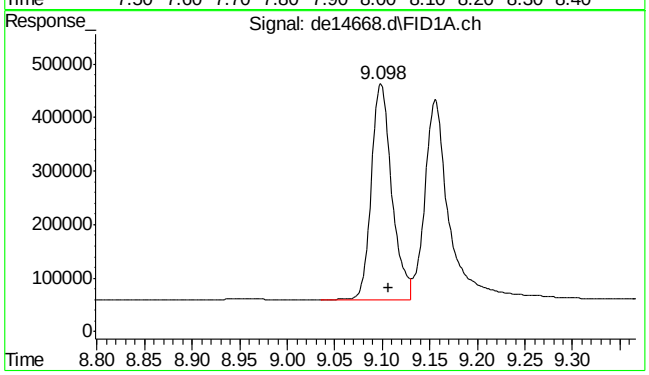

#7 acenaphthene

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

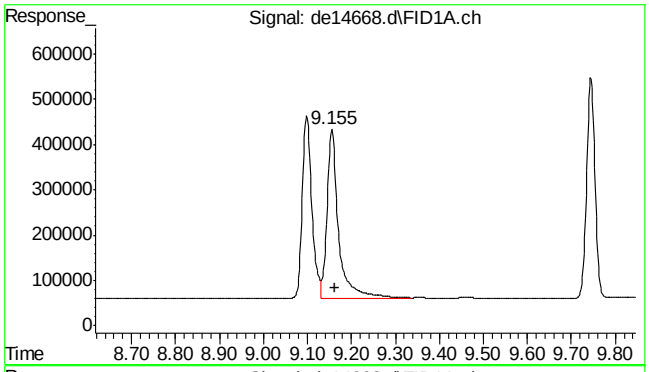
R.T.: 9.098 min
Delta R.T.: -0.008 min
Response: 606352
Conc: 5.44 µg/ml

9.4.3

9

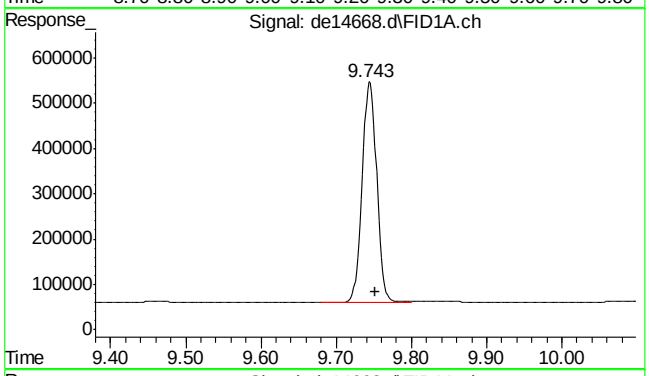


SGS ACCUTEST MC46487



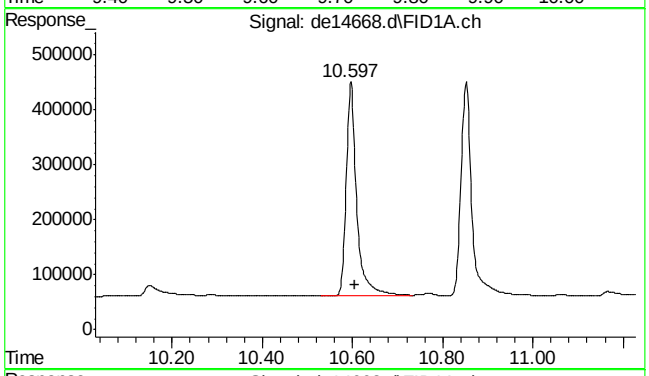

#10 anthracene

R.T.: 9.155 min
Delta R.T.: -0.008 min
Response: 684741
Conc: 5.89 µg/ml



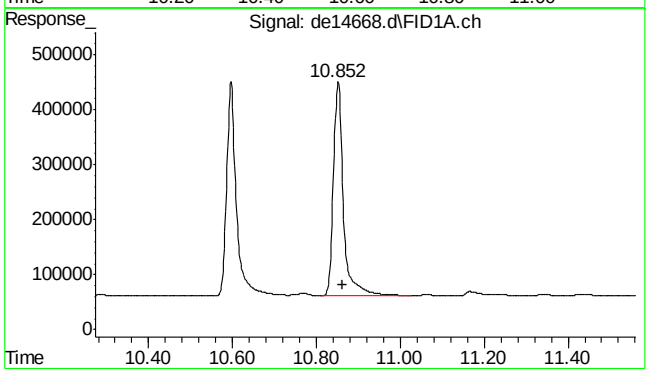

#11 o-terphenyl

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

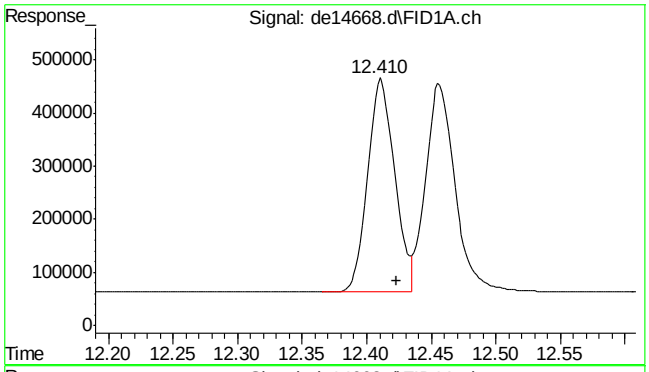
R.T.: 10.852 min
Delta R.T.: -0.010 min
Response: 645412
Conc: 5.57 µg/ml

9.4.3

9

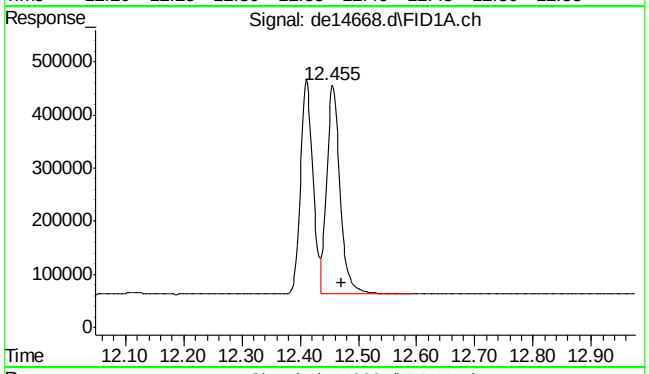


SGS ACCUTEST MC46487



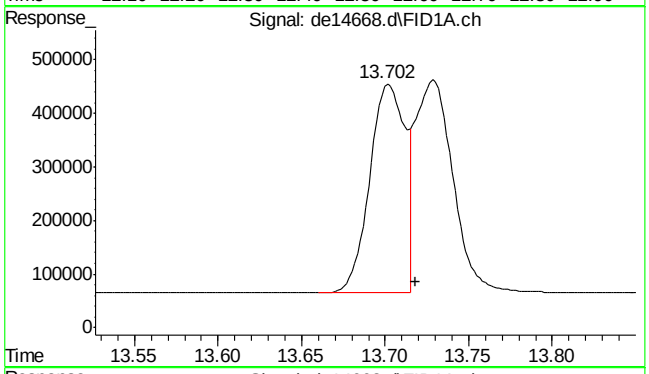

#14 benzo(a)anthracene

R.T.: 12.410 min
Delta R.T.: -0.013 min
Response: 589300
Conc: 5.44 µg/ml



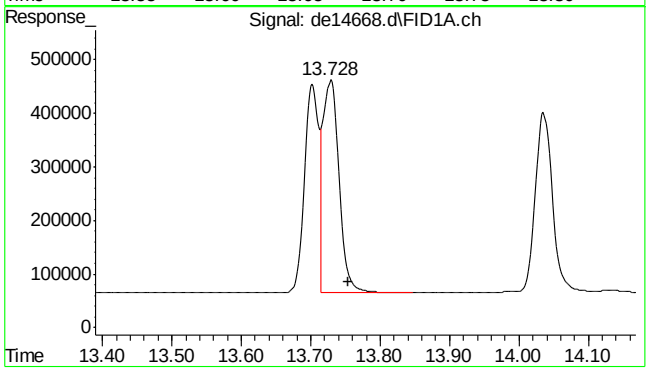

#15 chrysene

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



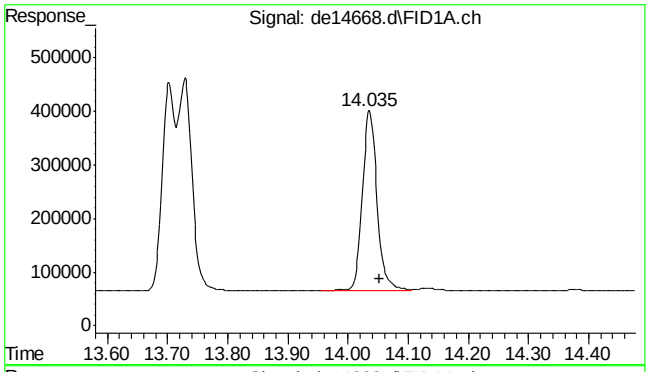

#17 benzo(k)fluoranthene

R.T.: 13.728 min
Delta R.T.: -0.025 min
Response: 612352
Conc: 5.36 µg/ml



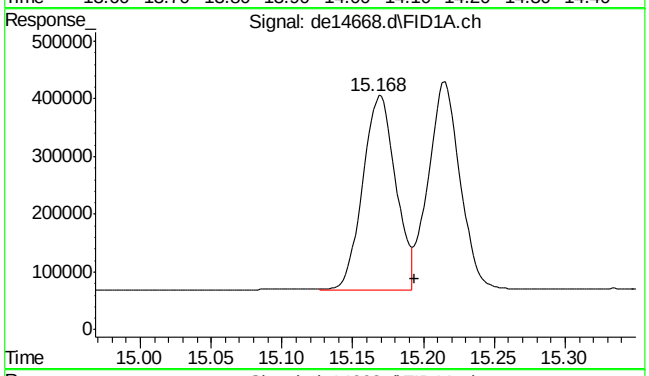


SGS ACCUTEST MC46487



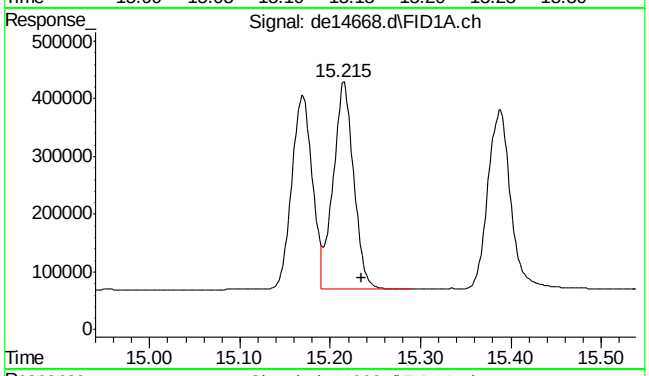

#18 benzo(a)pyrene

R.T.: 14.035 min
Delta R.T.: -0.018 min
Response: 570345
Conc: 5.40 µg/ml



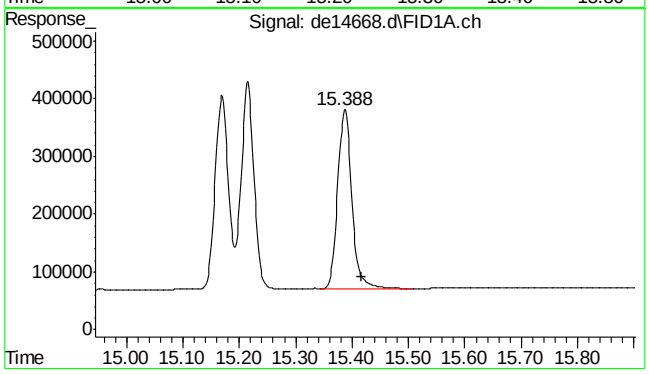

#19 indeno(1,2,3-cd)pyrene

R.T.: 15.168 min
Delta R.T.: -0.025 min
Response: 547262
Conc: 5.23 µg/ml m



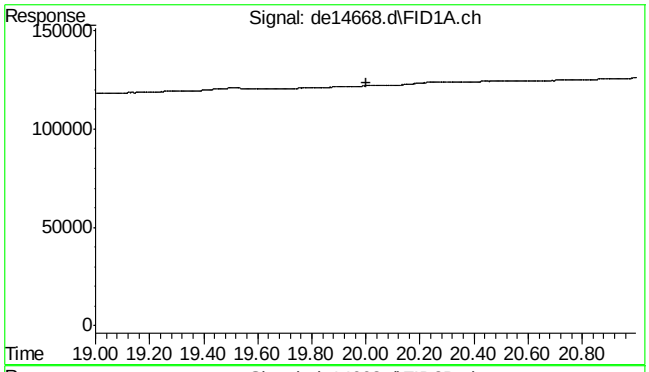

#20 dibenzo(ah)anthracene

R.T.: 15.215 min
Delta R.T.: -0.020 min
Response: 564801
Conc: 5.48 µg/ml



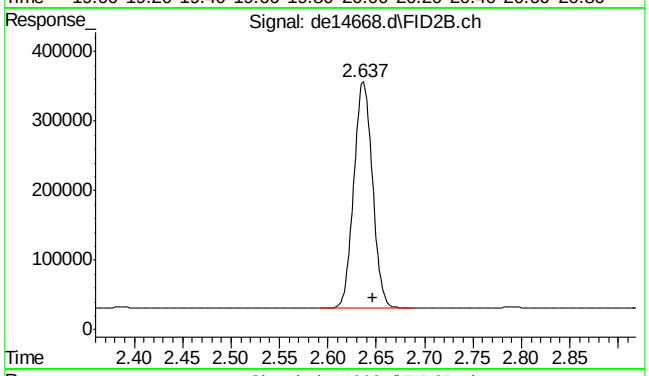

#21 benzo(ghi)perylene

R.T.: 15.388 min
Delta R.T.: -0.028 min
Response: 541223
Conc: 5.27 µg/ml



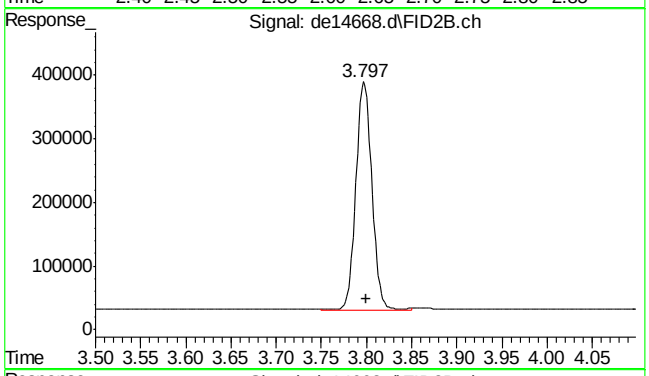

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



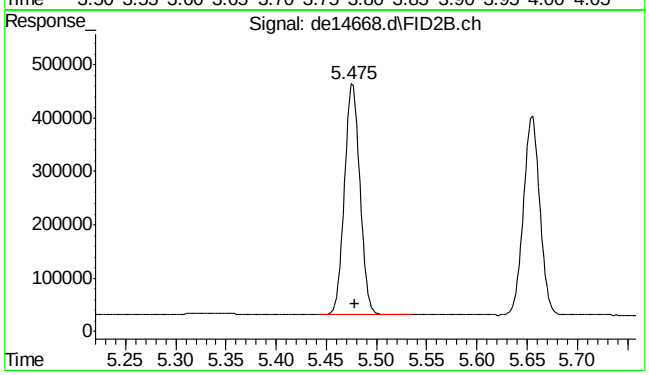

#25 c-9

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

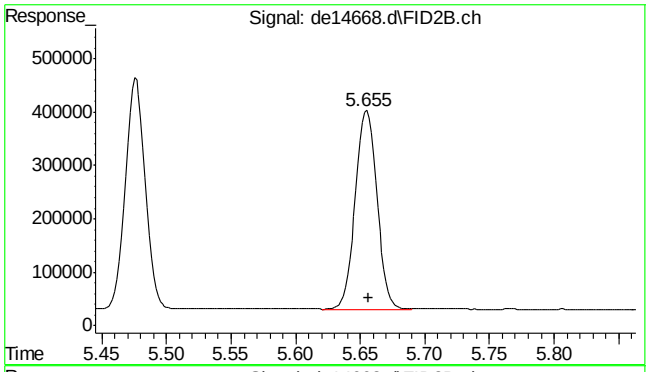
R.T.: 5.475 min
Delta R.T.: -0.003 min
Response: 462504
Conc: 5.43 µg/ml

9.4.3

9

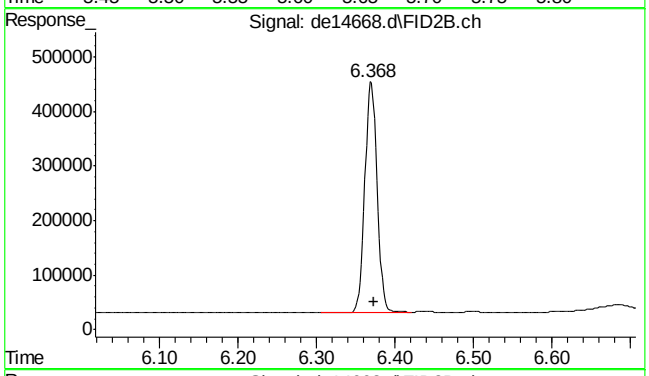


SGS ACCUTEST MC46487



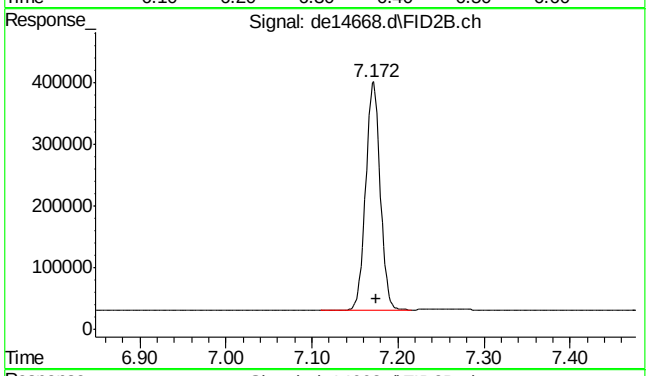

#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 432854
Conc: 5.23 µg/ml



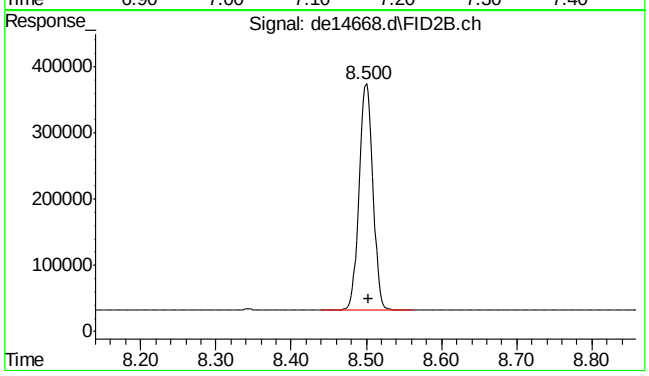

#29 2-methylnaphthalene #2

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



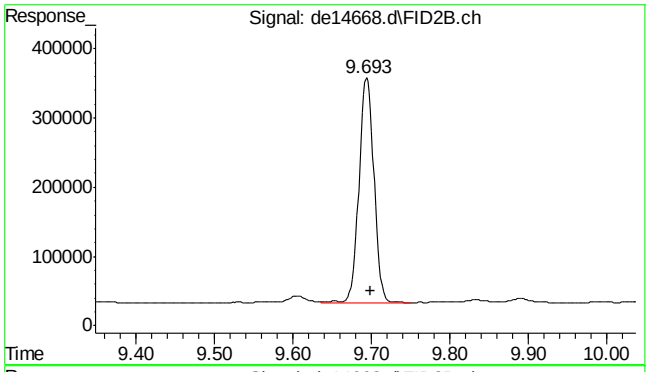

#31 c-16

R.T.: 8.500 min
Delta R.T.: -0.003 min
Response: 435918
Conc: 5.20 µg/ml



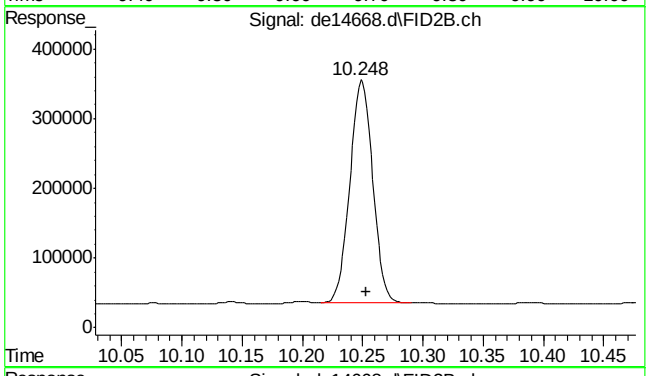


SGS ACCUTEST MC46487



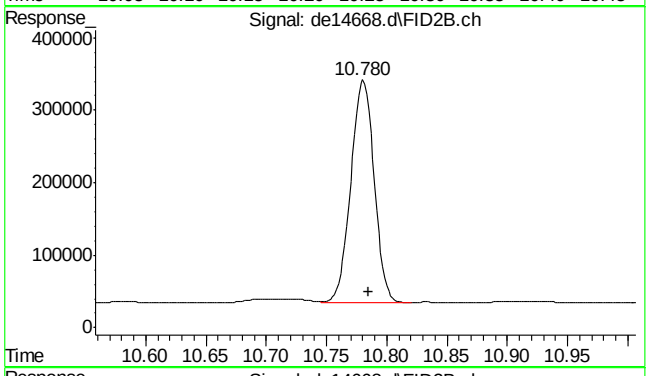

#32 c-18

R.T.: 9.693 min
Delta R.T.: -0.005 min
Response: 428513
Conc: 5.22 µg/ml



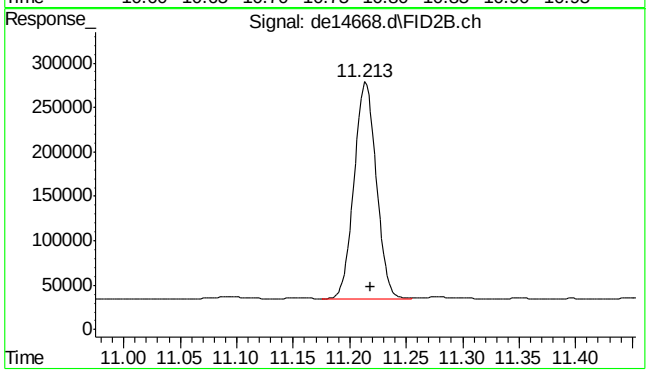

#33 c-19

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

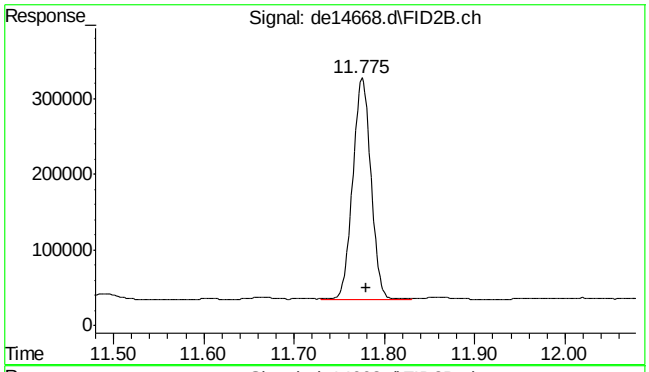
R.T.: 11.213 min
Delta R.T.: -0.005 min
Response: 332474
Conc: 5.51 µg/ml

9.4.3

9

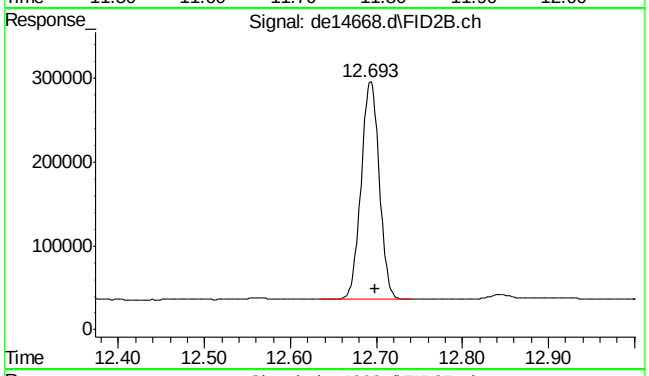


SGS ACCUTEST MC46487



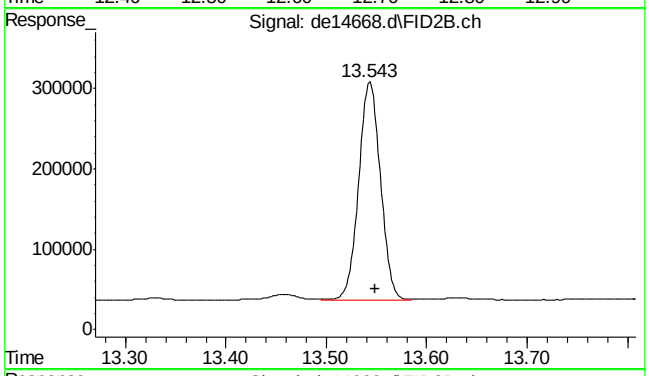

#36 c-22

R.T.: 11.775 min
Delta R.T.: -0.005 min
Response: 410716
Conc: 5.25 µg/ml



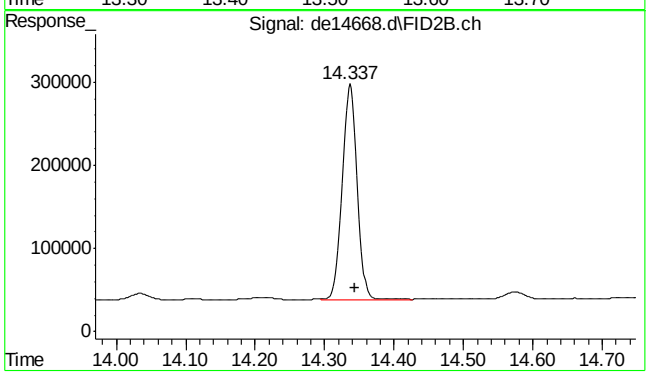

#37 c-24

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



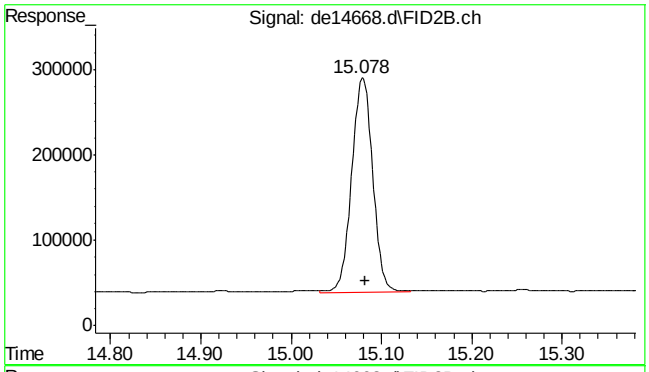

#39 c-28

R.T.: 14.337 min
Delta R.T.: -0.007 min
Response: 391589
Conc: 5.28 µg/ml



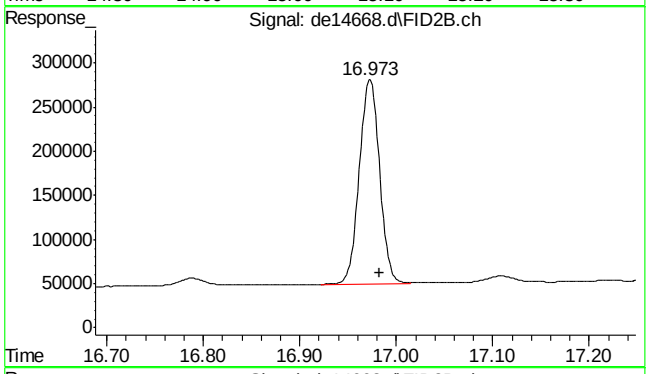


SGS ACCUTEST MC46487



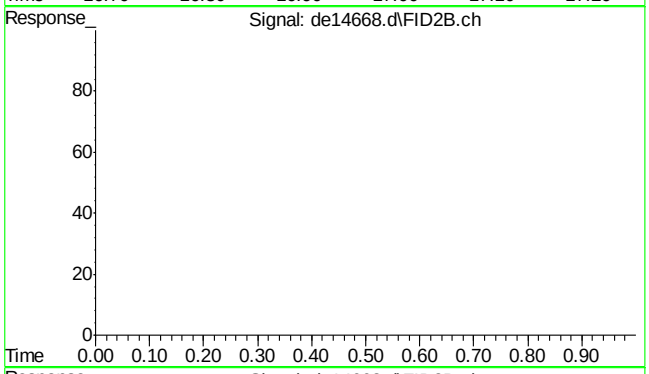

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 408558
Conc: 4.94 µg/ml



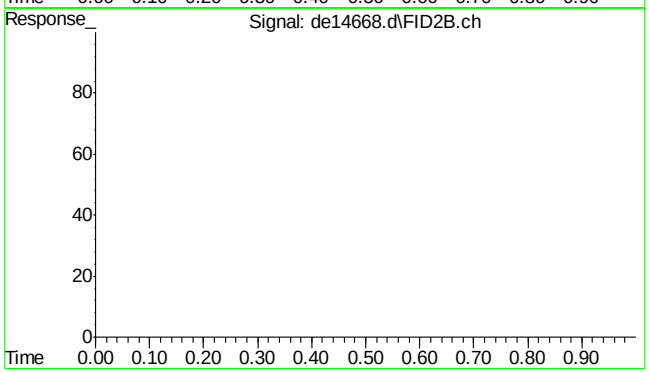

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 339764
Conc: 5.13 µg/ml m



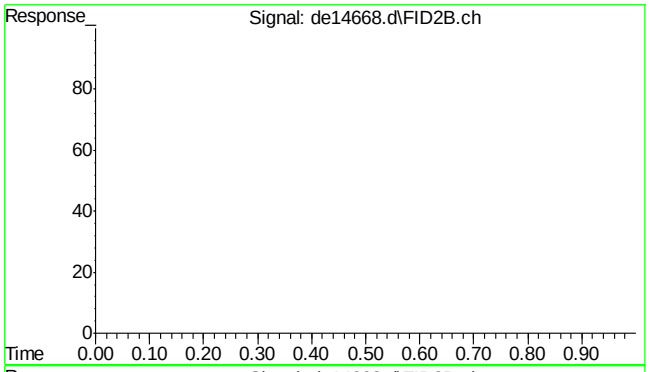

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



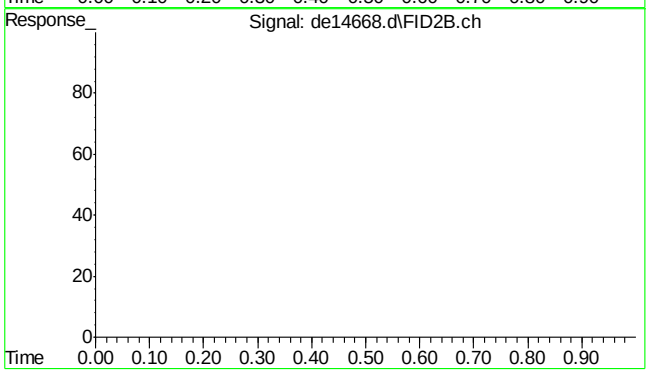

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#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.





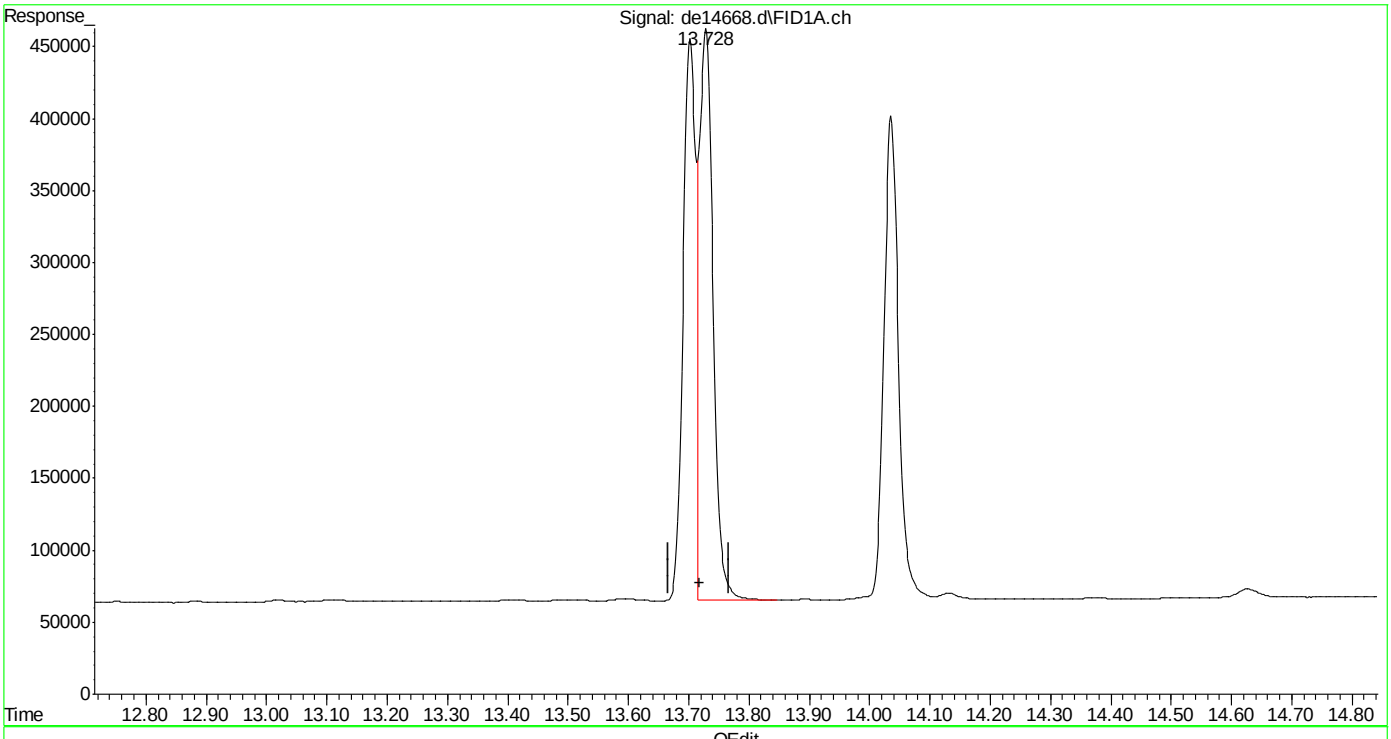
SGS ACCUTEST MC46487

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

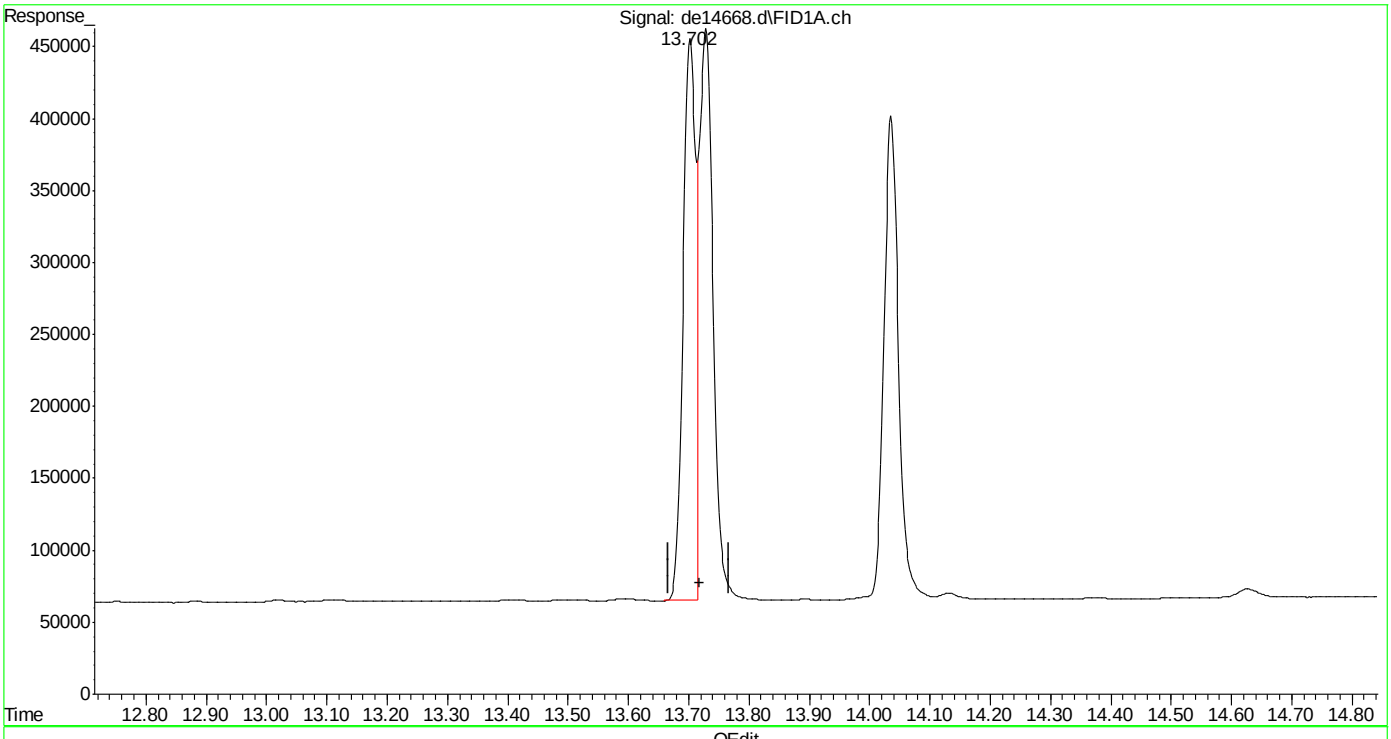
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:52:59 2016

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

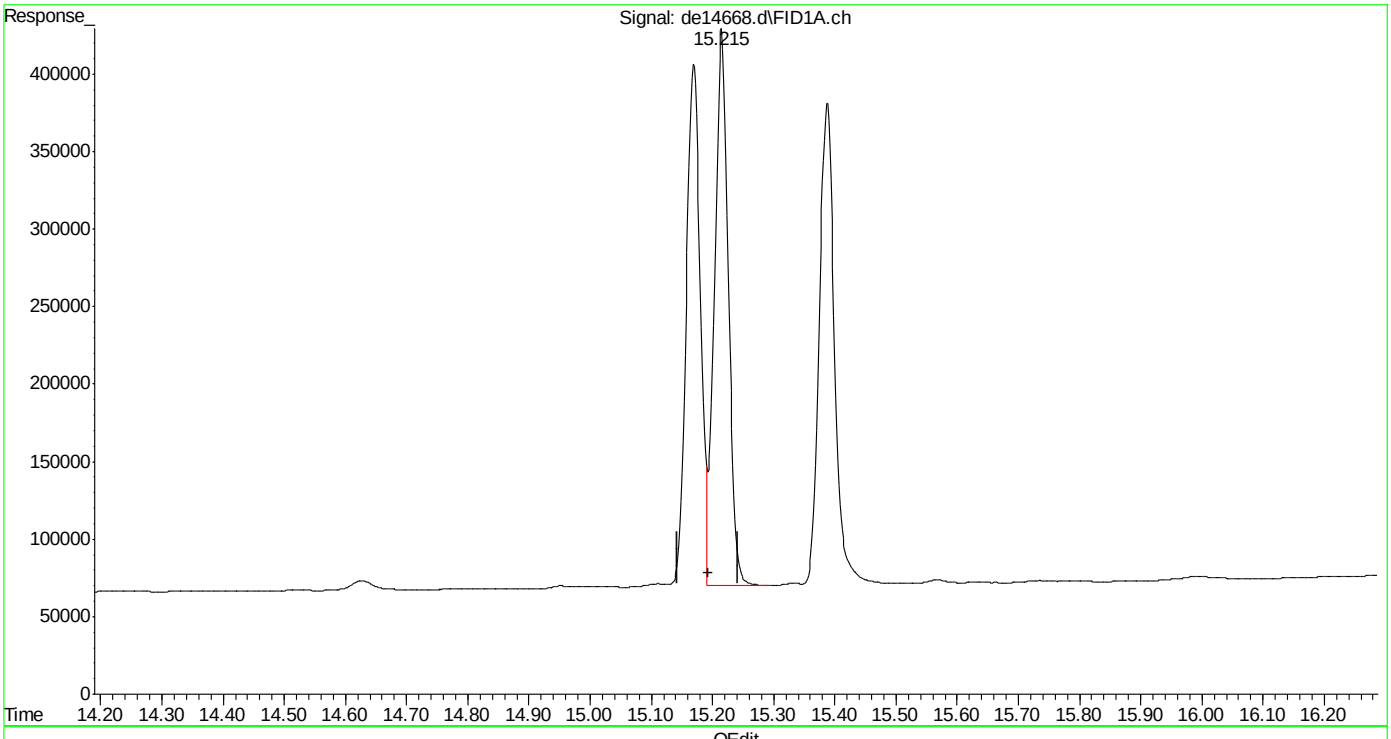
EPH160622W.M Thu Jun 23 07:53:13 2016

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

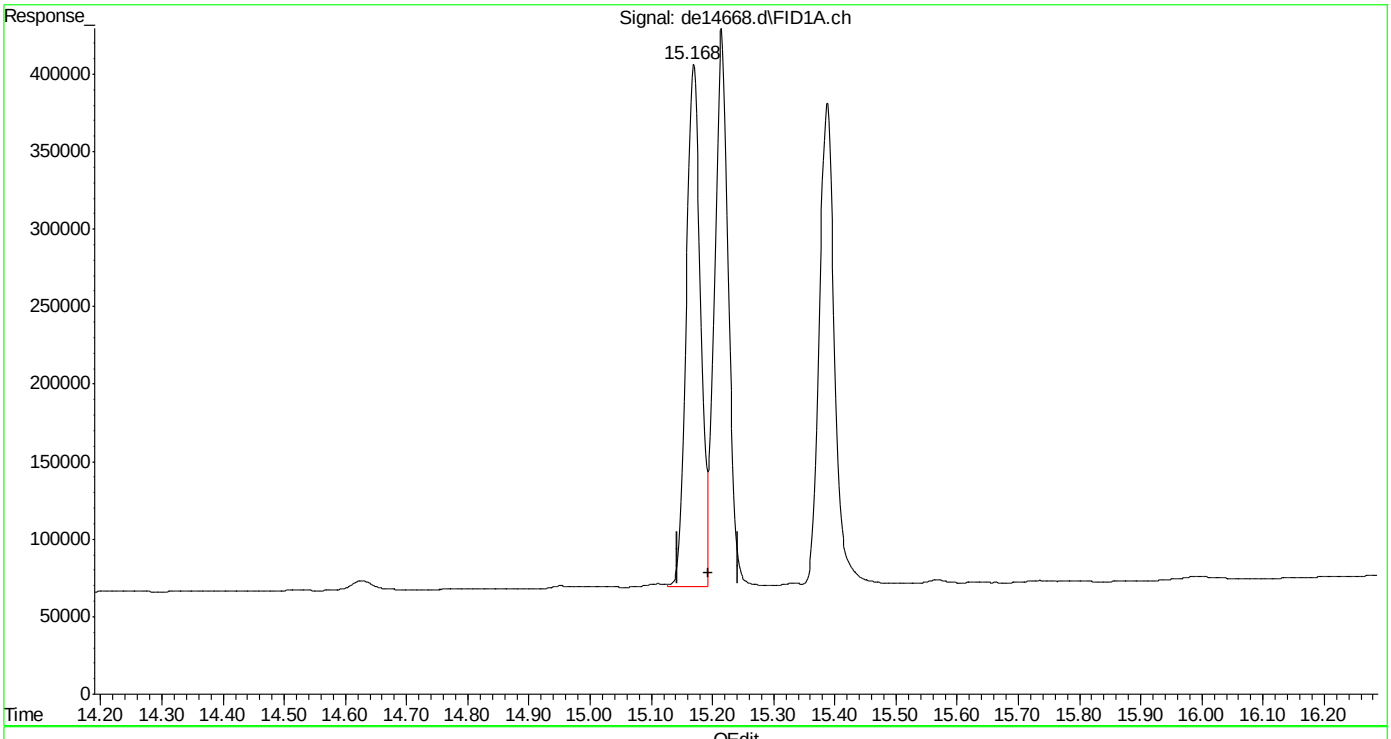
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:53:17 2016

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 |

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



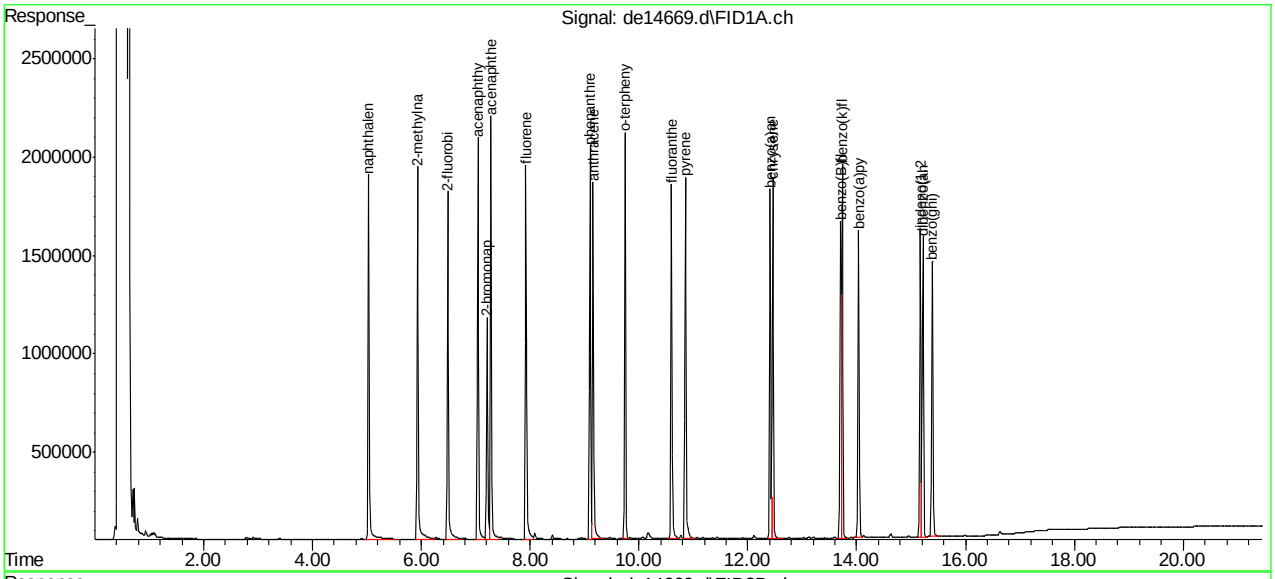
SGS ACCUTEST MC46487

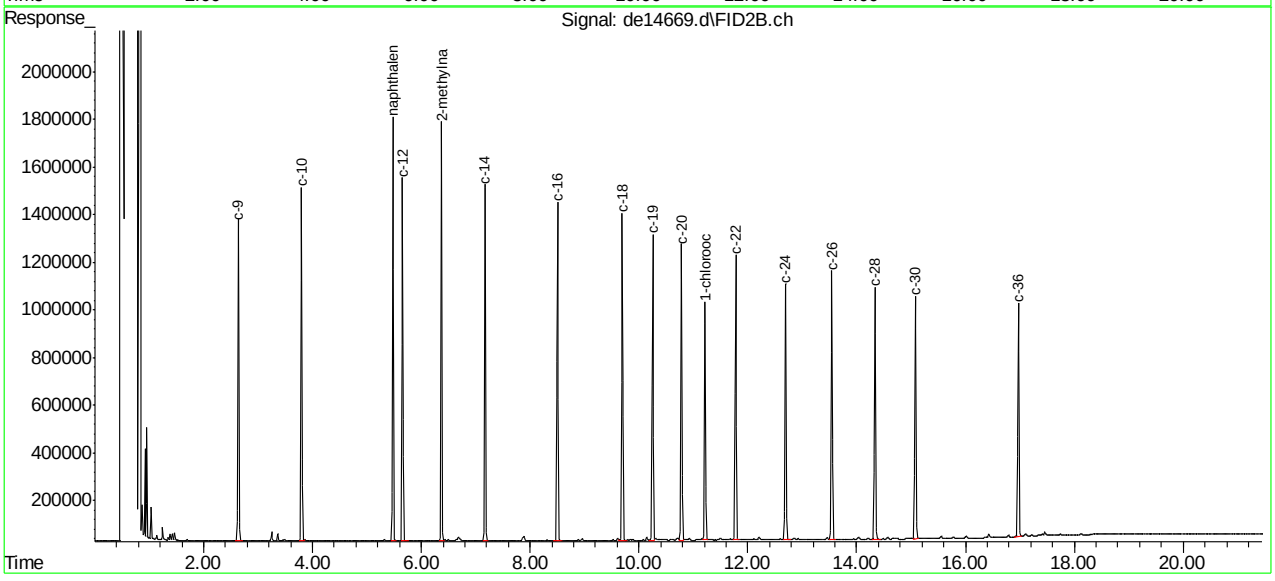
Quantitation Report (QT Reviewed)

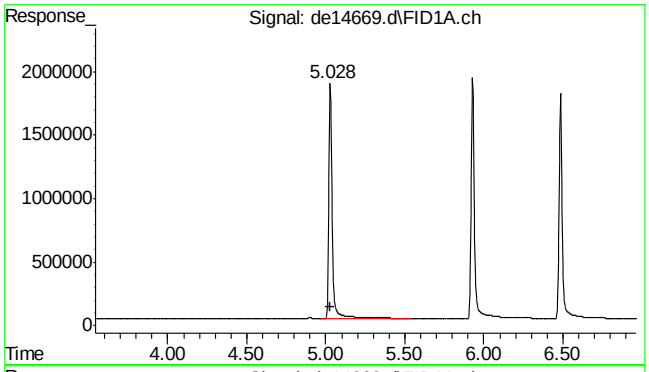
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14669.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 7:40 pm
Operator : thomasa
Sample : ic815-20 (Sig #1); cc815-20 (Sig #2)
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 108 Sample Multiplier: 1

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 :

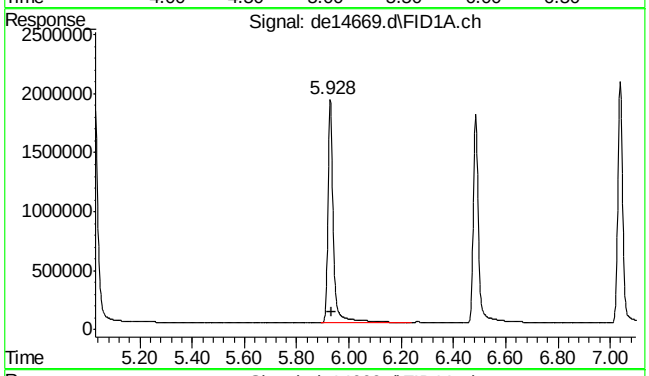




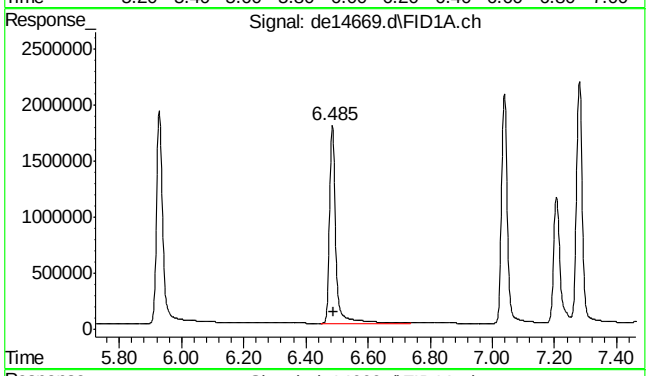

#2 naphthalene

R.T.: 5.028 min
Delta R.T.: -0.002 min
Response: 2761210
Conc: 23.92 µg/ml



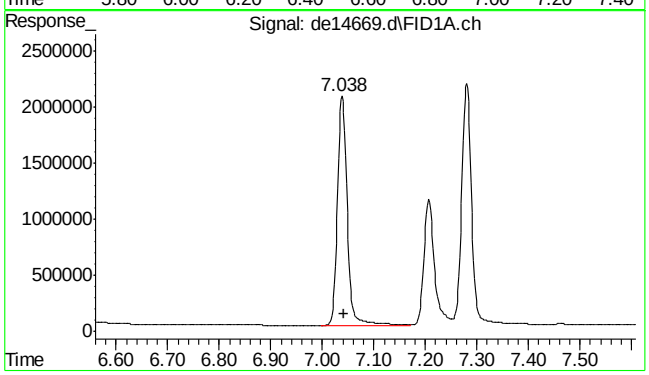

#3 2-methylnaphthalene

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





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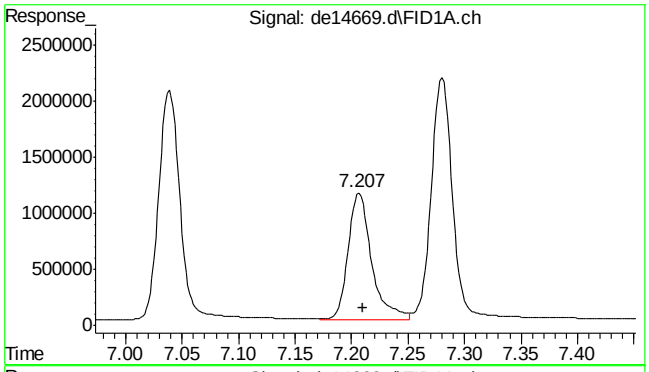
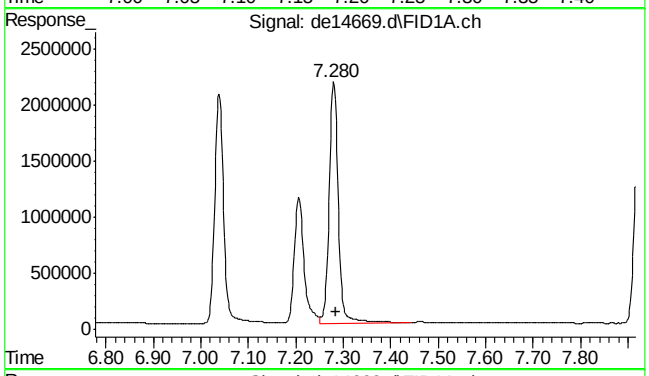


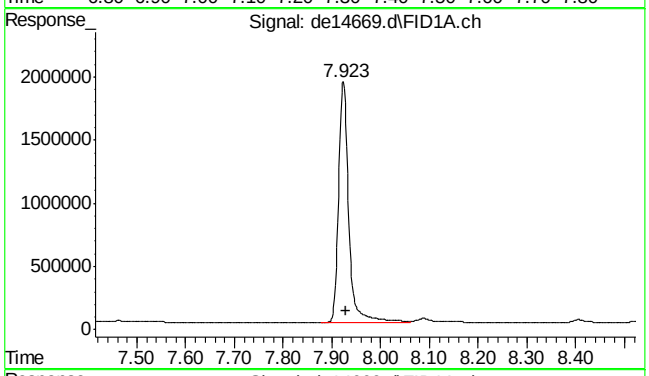

#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 1622495
Conc: 24.70 µg/ml



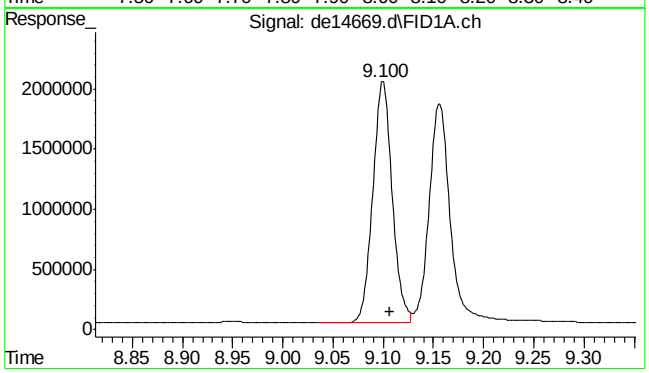

#7 acenaphthene

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



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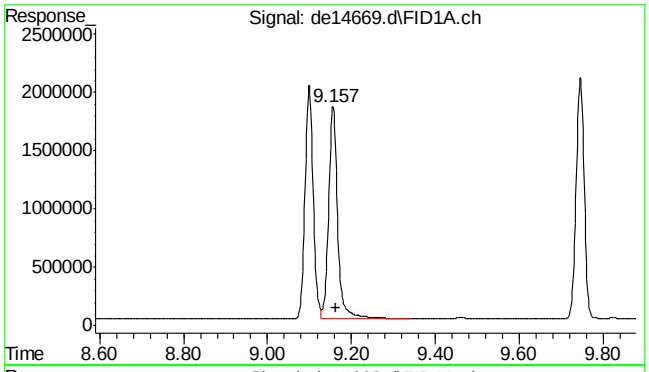
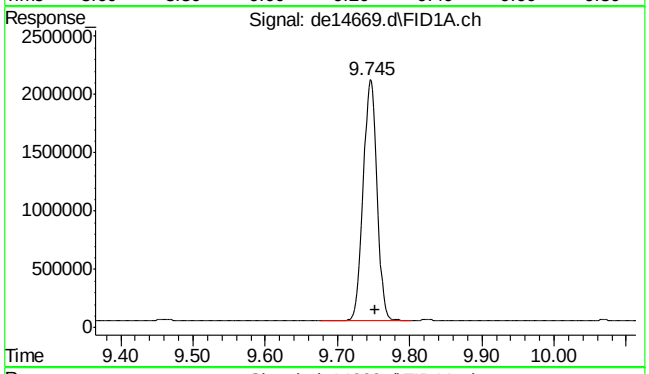


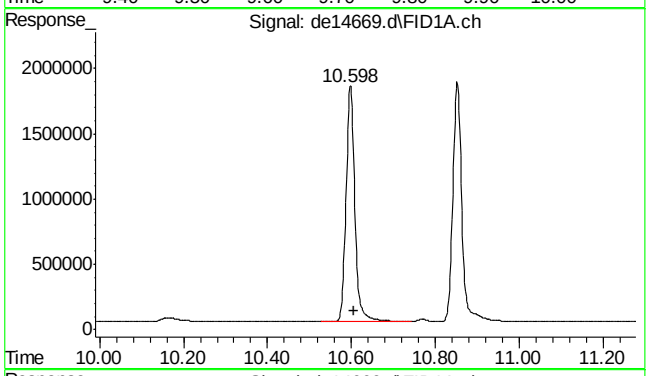

#10 anthracene

R.T.: 9.157 min
Delta R.T.: -0.007 min
Response: 2716250
Conc: 22.31 µg/ml



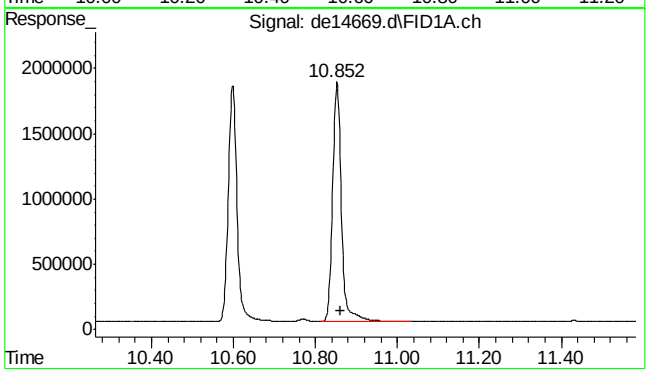

#11 o-terphenyl

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



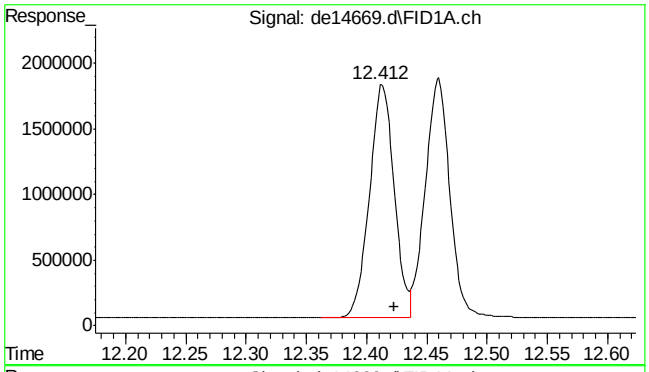

#13 pyrene

R.T.: 10.852 min
Delta R.T.: -0.010 min
Response: 2734764
Conc: 22.82 µg/ml



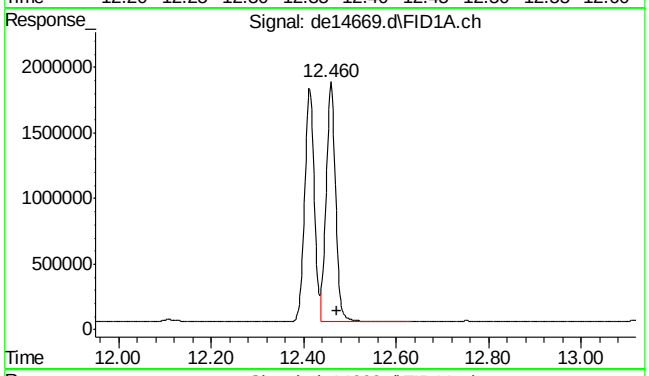


SGS ACCUTEST MC46487



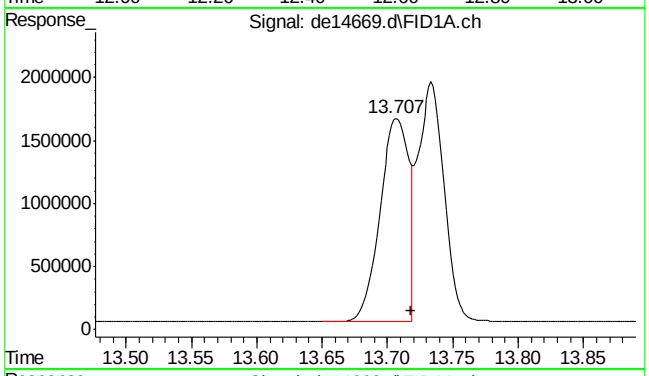

#14 benzo(a)anthracene

R.T.: 12.412 min
Delta R.T.: -0.012 min
Response: 2555074
Conc: 22.96 µg/ml



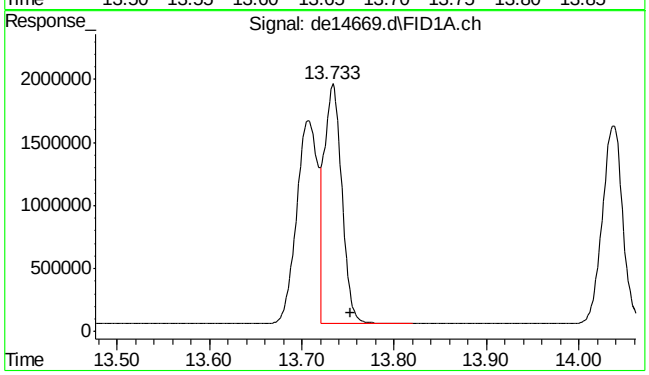

#15 chrysene

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



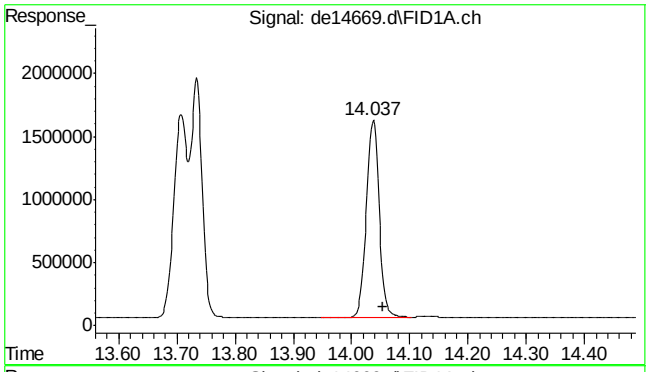

#17 benzo(k)fluoranthene

R.T.: 13.733 min
Delta R.T.: -0.020 min
Response: 2513496
Conc: 21.26 µg/ml m



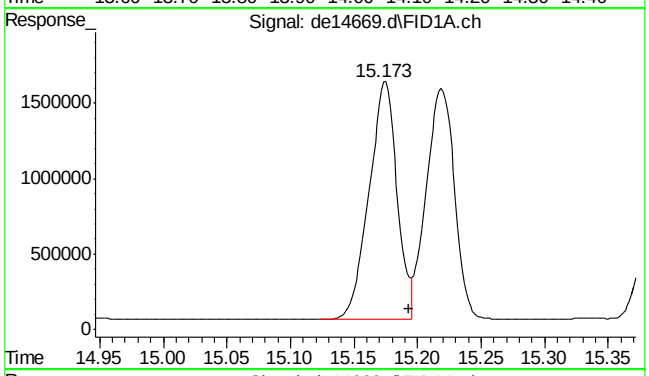


SGS ACCUTEST MC46487



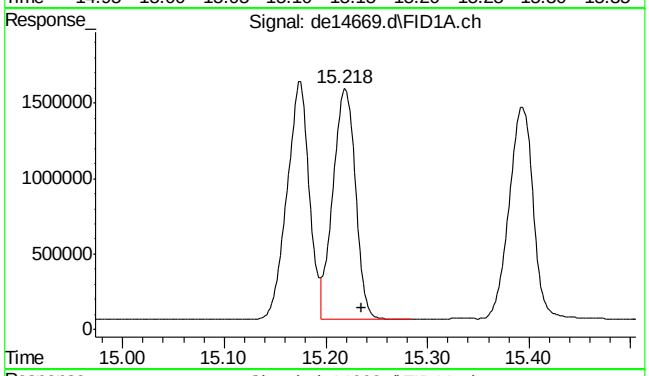

#18 benzo(a)pyrene

R.T.: 14.037 min
Delta R.T.: -0.017 min
Response: 2419189
Conc: 22.25 µg/ml



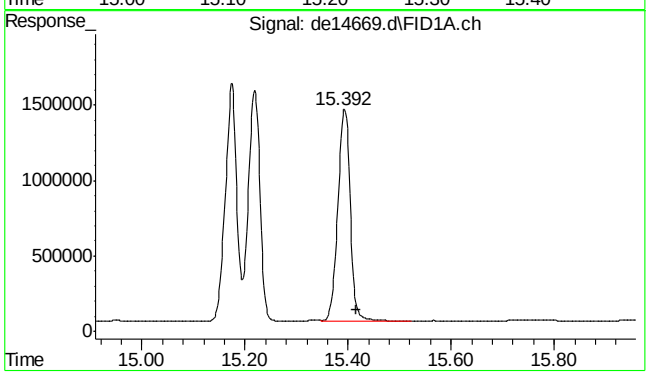

#19 indeno(1,2,3-cd)pyrene

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

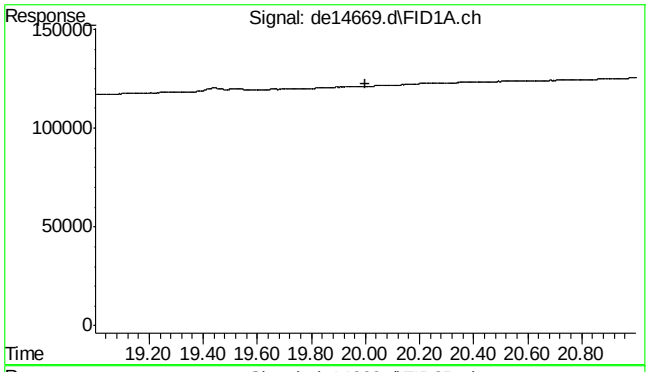
R.T.: 15.392 min
Delta R.T.: -0.025 min
Response: 2338304
Conc: 22.30 µg/ml

9.4.4

9

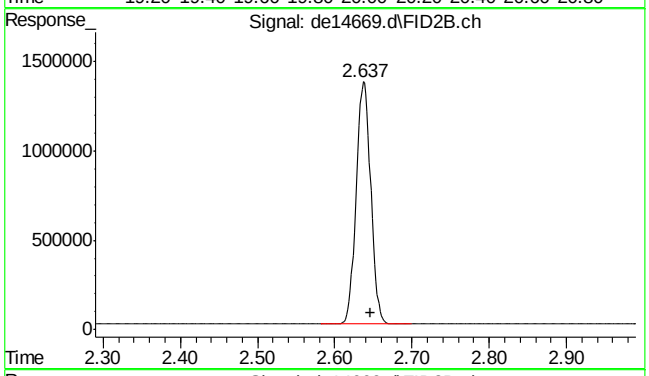


SGS ACCUTEST MC46487



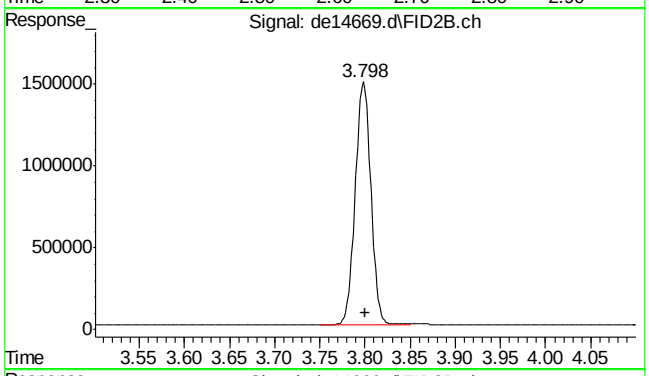

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



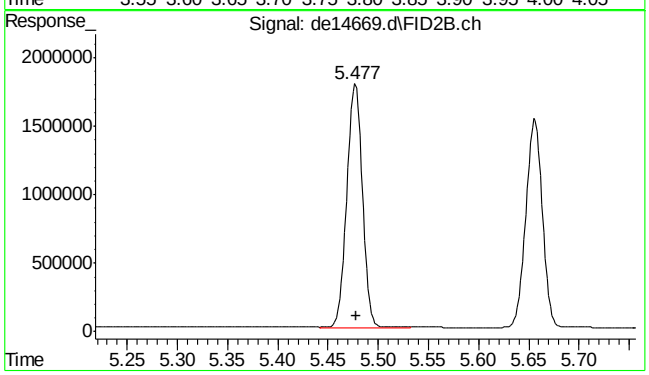

#25 c-9

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

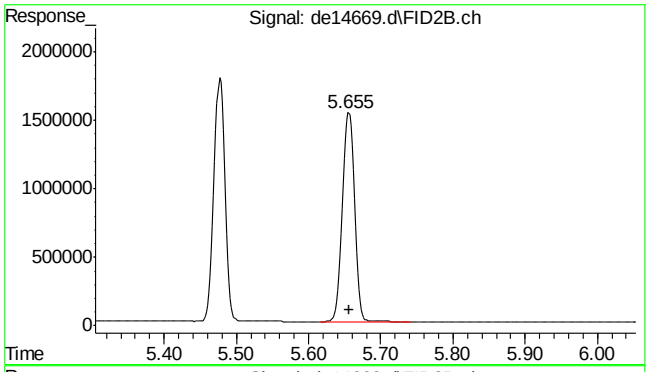
R.T.: 5.477 min
Delta R.T.: -0.002 min
Response: 1908539
Conc: 22.16 µg/ml

9.4.4

9

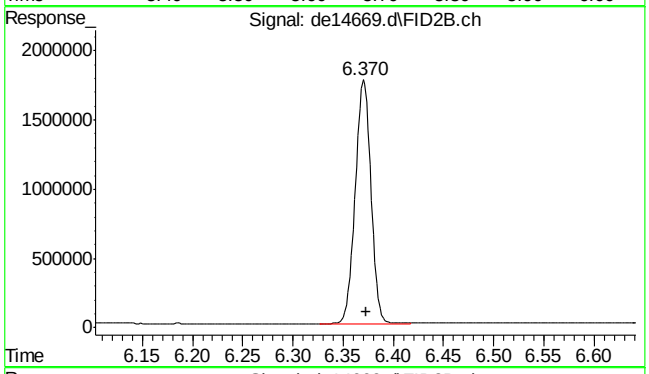


SGS ACCUTEST MC46487



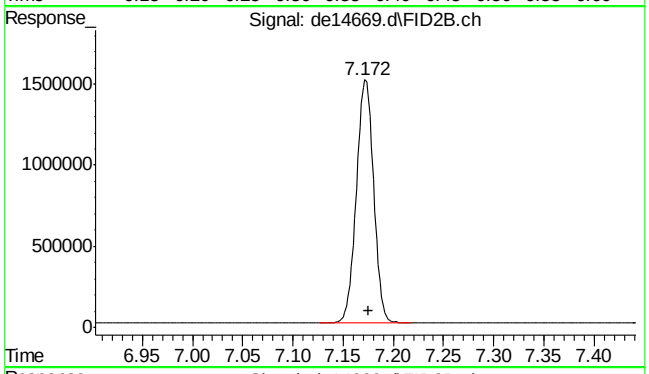

#28 c-12

R.T.: 5.655 min
Delta R.T.: -0.002 min
Response: 1778842
Conc: 21.30 µg/ml



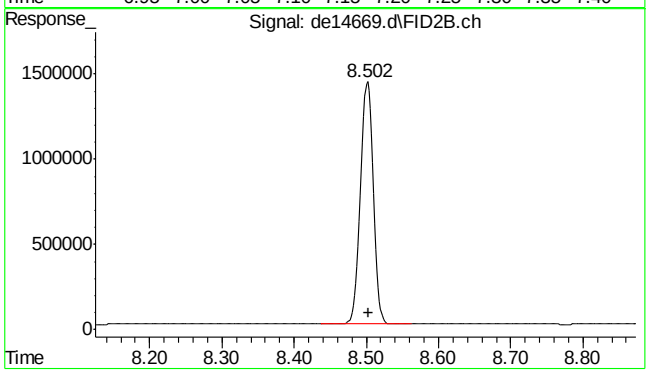

#29 2-methylnaphthalene #2

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

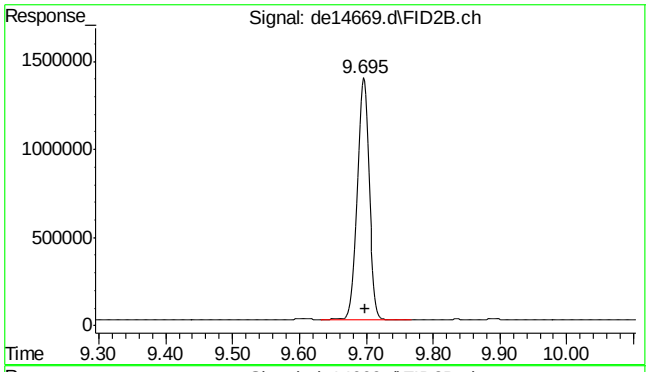
R.T.: 8.502 min
Delta R.T.: -0.002 min
Response: 1757632
Conc: 20.80 µg/ml

9.4.4

9

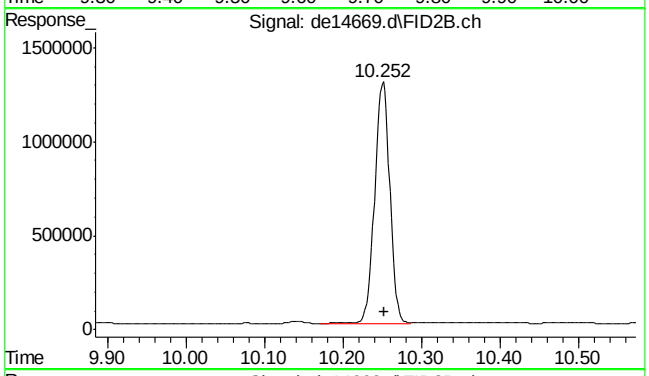


SGS ACCUTEST MC46487



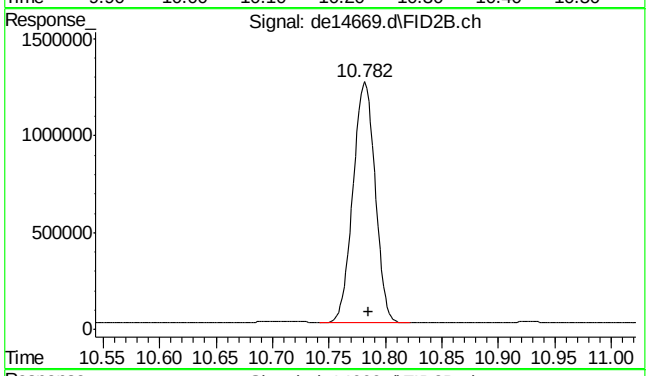

#32 c-18

R.T.: 9.695 min
Delta R.T.: -0.003 min
Response: 1741774
Conc: 21.02 µg/ml



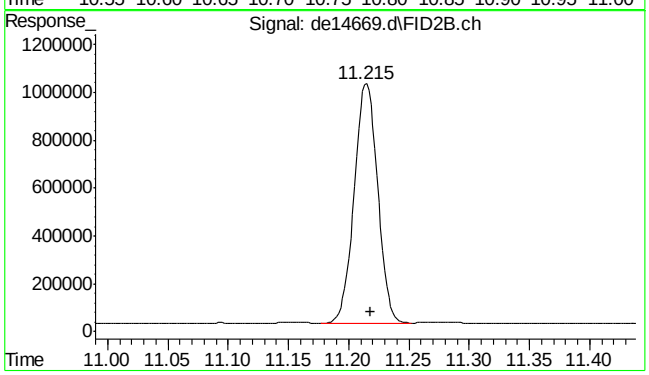

#33 c-19

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

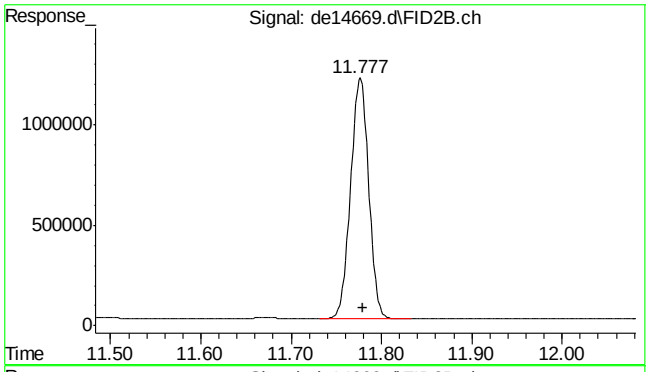
R.T.: 11.215 min
Delta R.T.: -0.003 min
Response: 1362404
Conc: 22.20 µg/ml

9.4.4

9

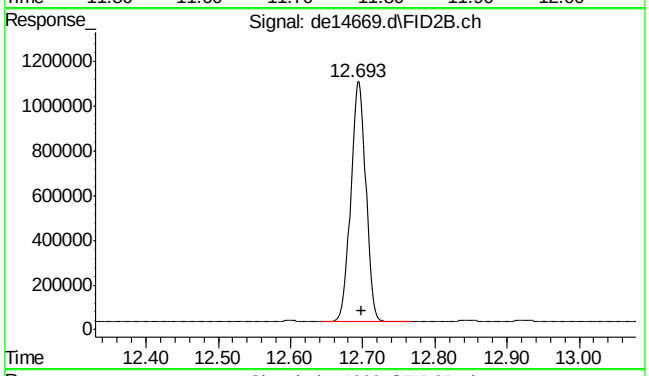


SGS ACCUTEST MC46487



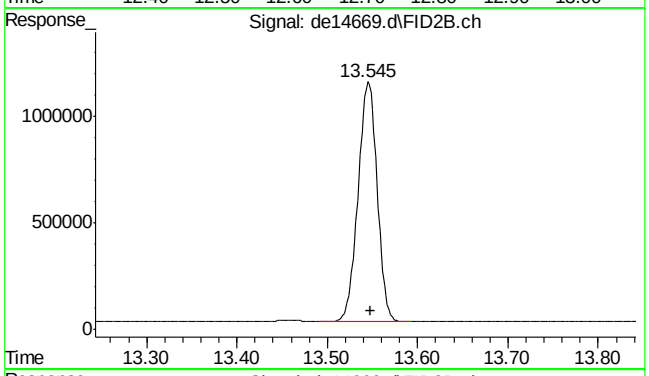

#36 c-22

R.T.: 11.777 min
Delta R.T.: -0.003 min
Response: 1677797
Conc: 21.22 µg/ml



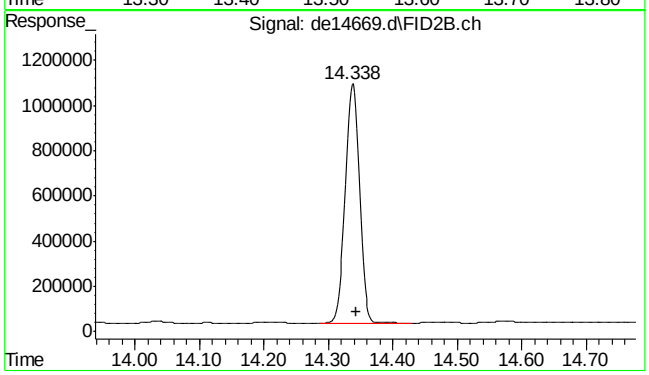

#37 c-24

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

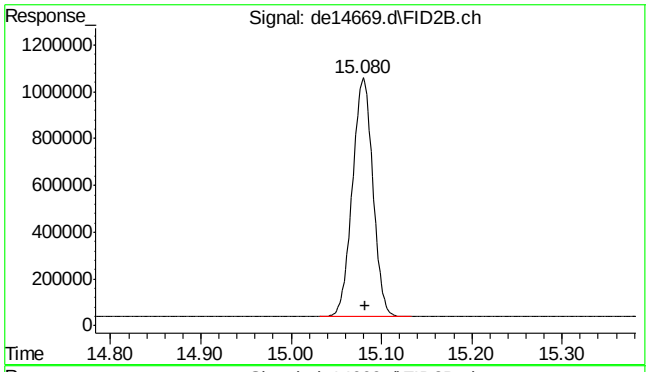
R.T.: 14.338 min
Delta R.T.: -0.005 min
Response: 1607781
Conc: 21.43 µg/ml

9.4.4

9

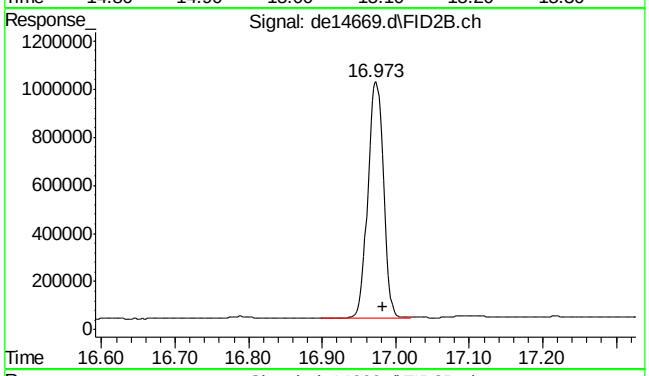


SGS ACCUTEST MC46487



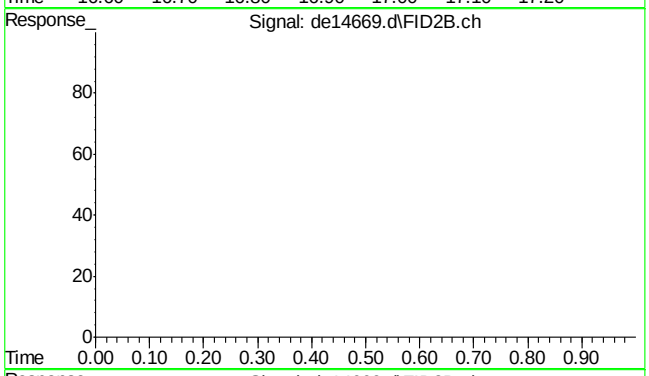

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 1615388
Conc: 19.57 µg/ml



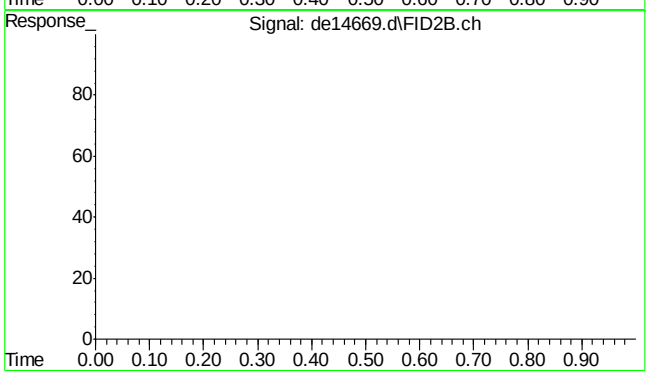

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 1450363
Conc: 21.77 µg/ml m



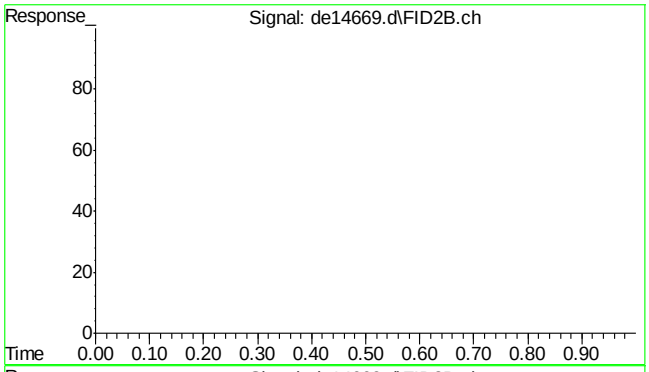

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



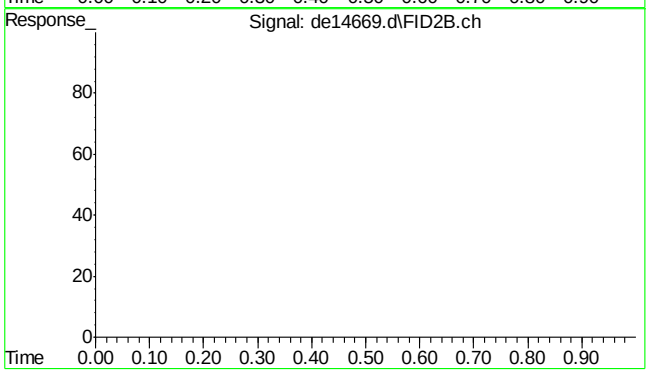

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#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



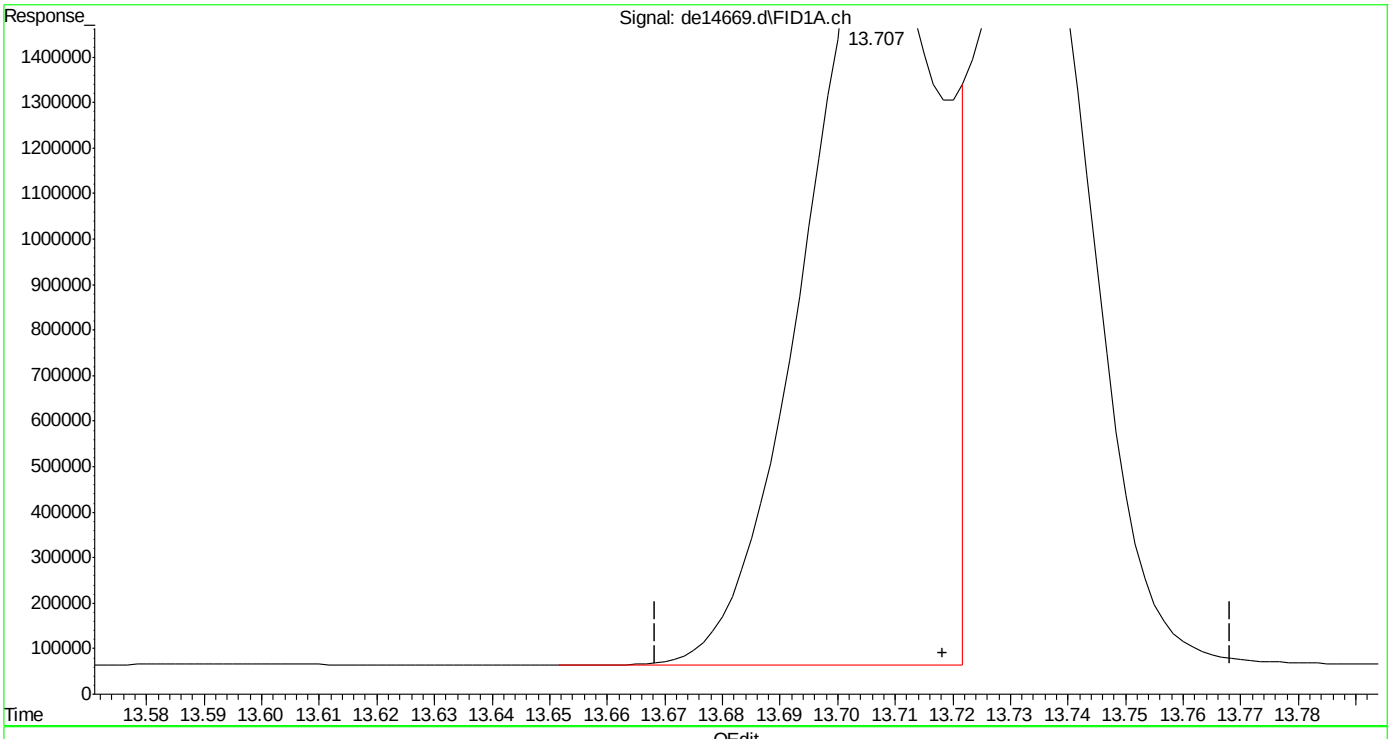
SGS ACCUTEST MC46487

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

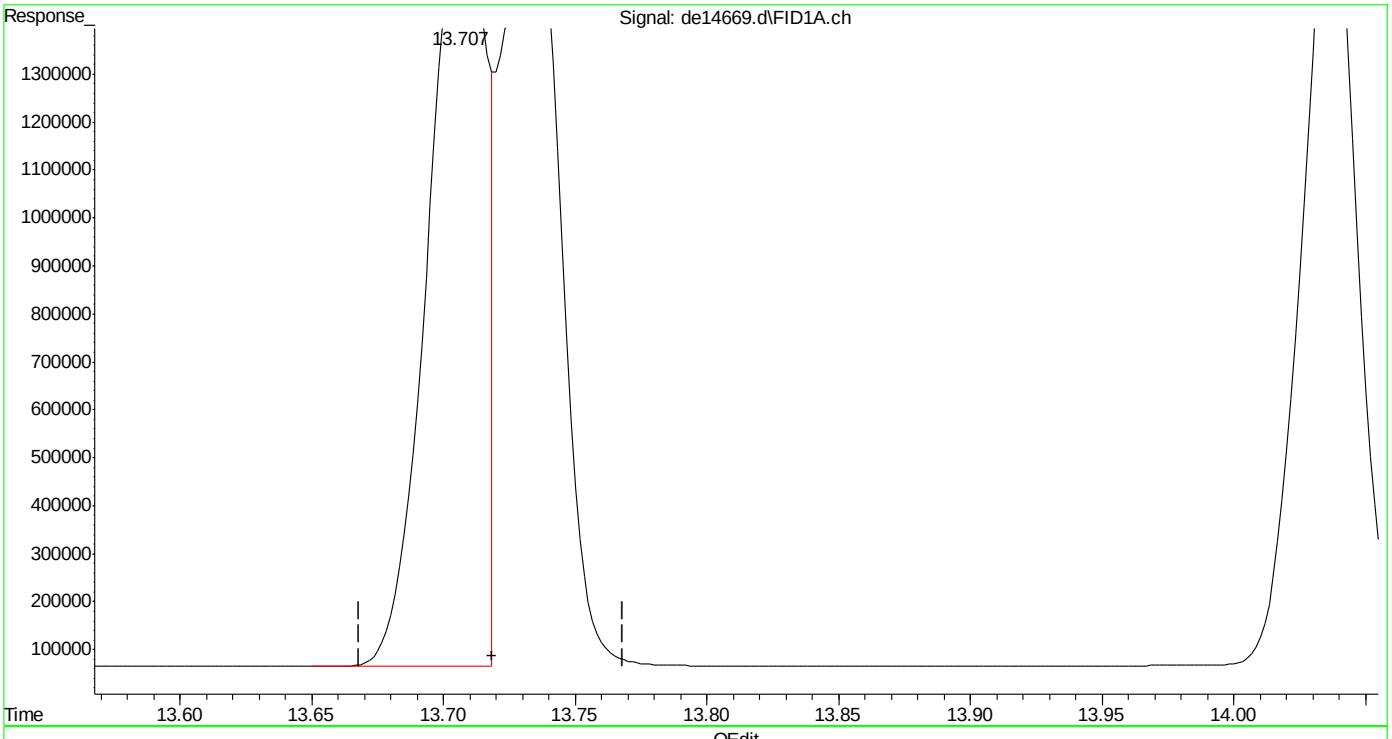

SGS ACCUTEST MC46487

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

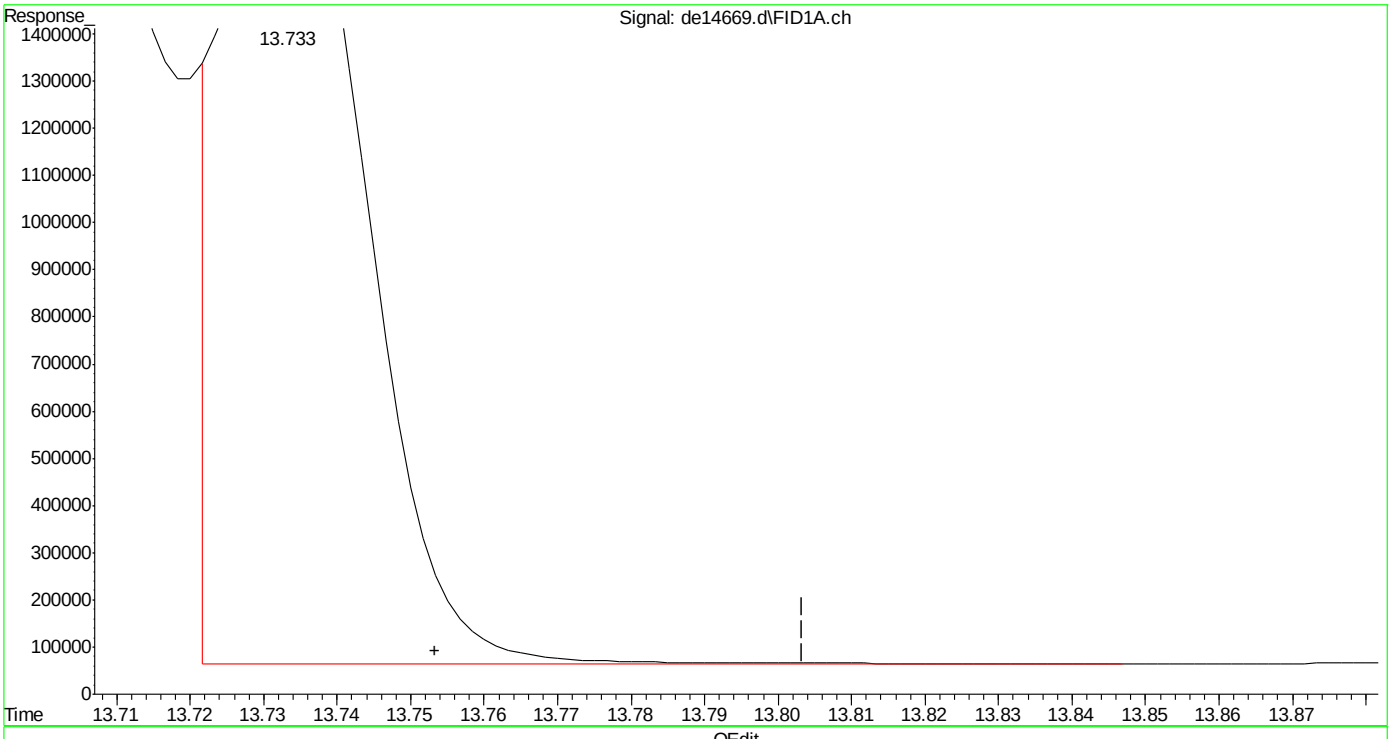
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:54:50 2016

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

EPH160622W.M Thu Jun 23 07:54:57 2016





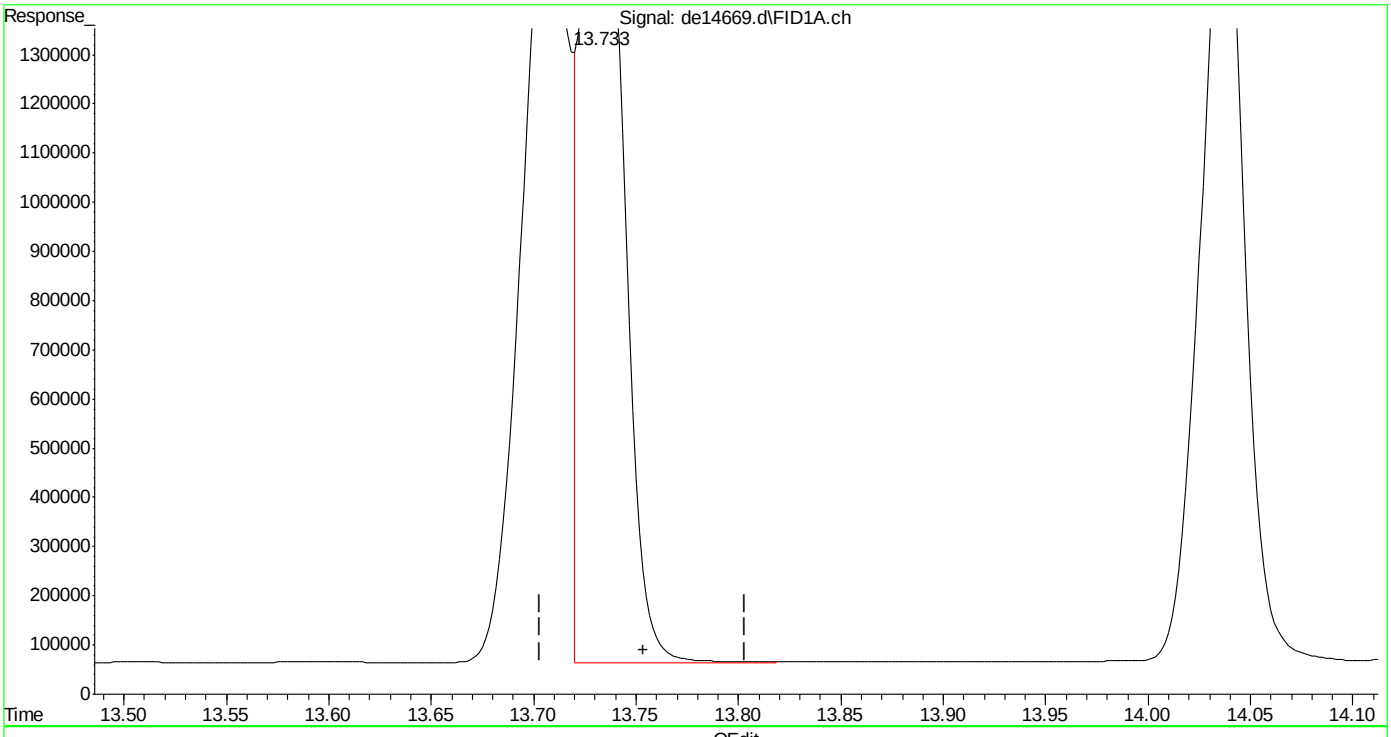
SGS ACCUTEST MC46487

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

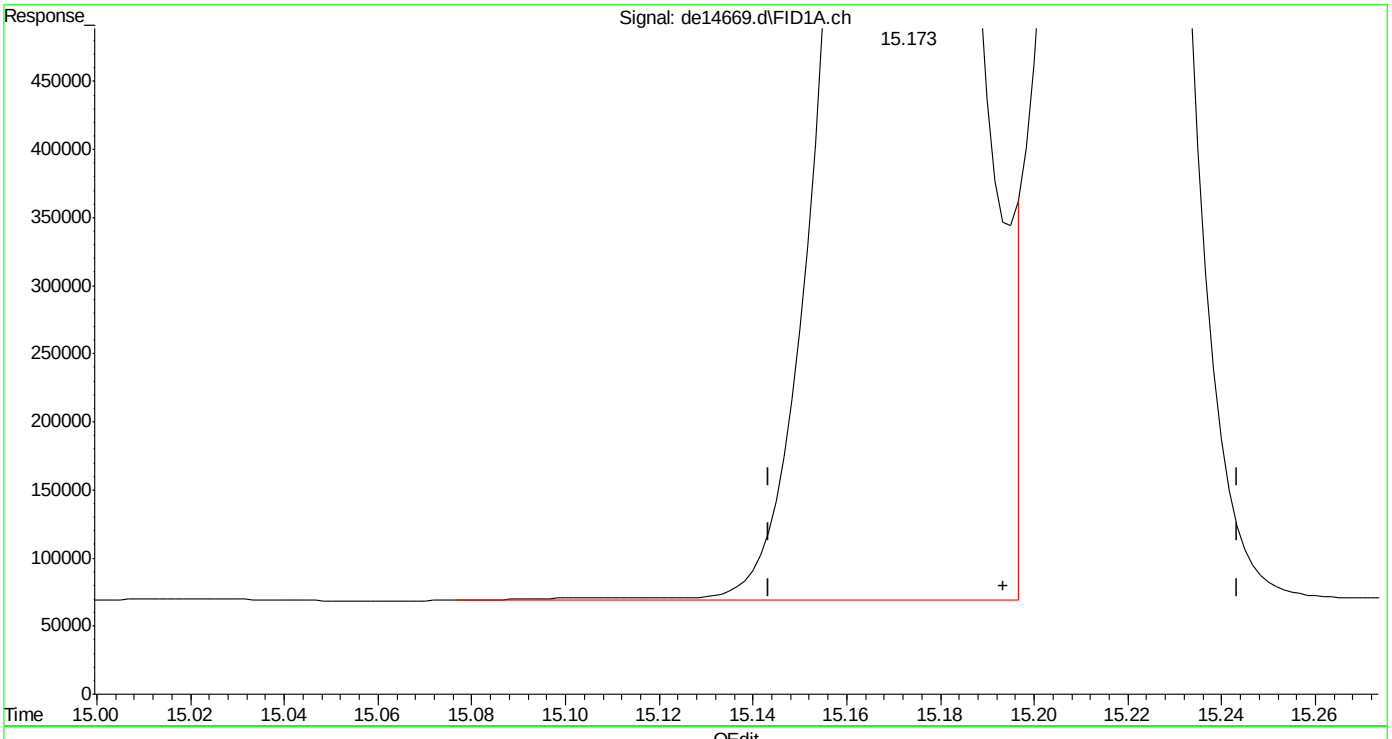
EPH160622W.M Thu Jun 23 07:55:10 2016

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







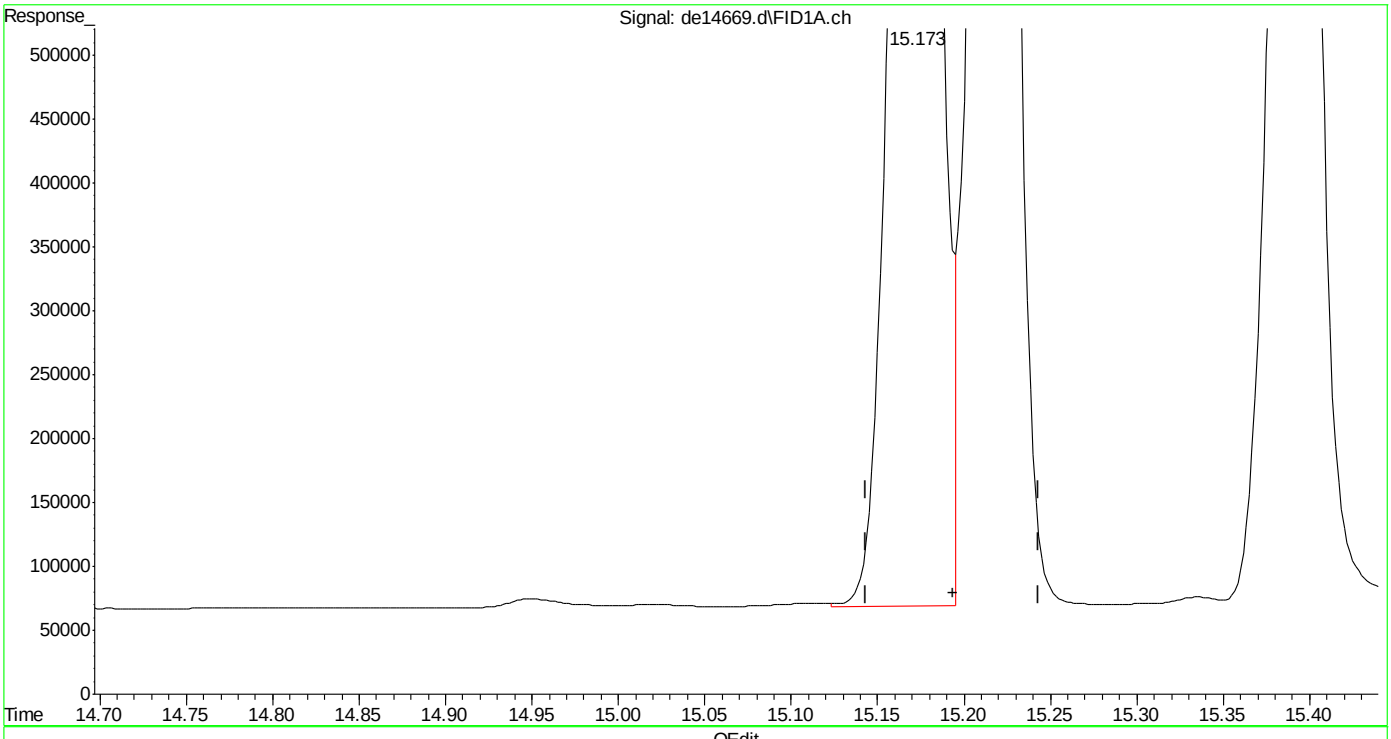
SGS ACCUTEST MC46487

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







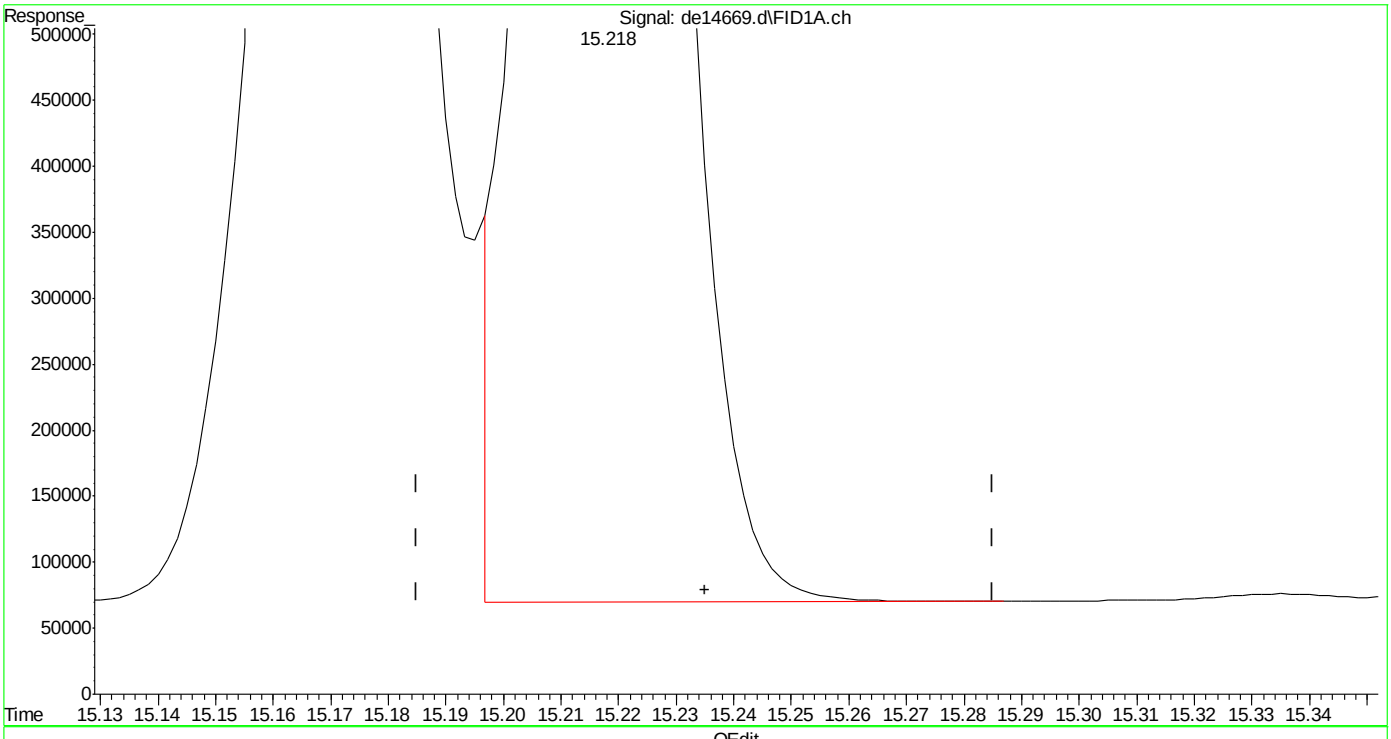
SGS ACCUTEST MC46487

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







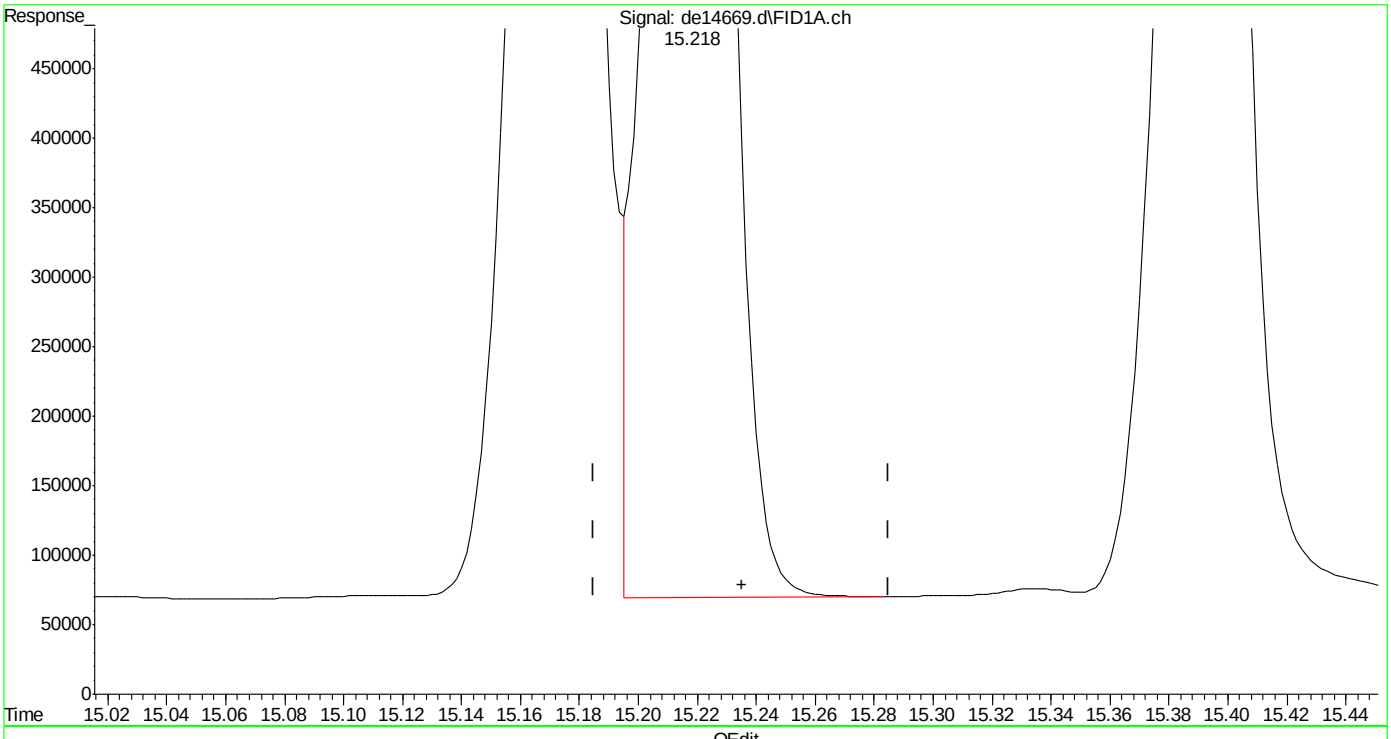
SGS ACCUTEST MC46487

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





SGS ACCUTEST MC46487

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



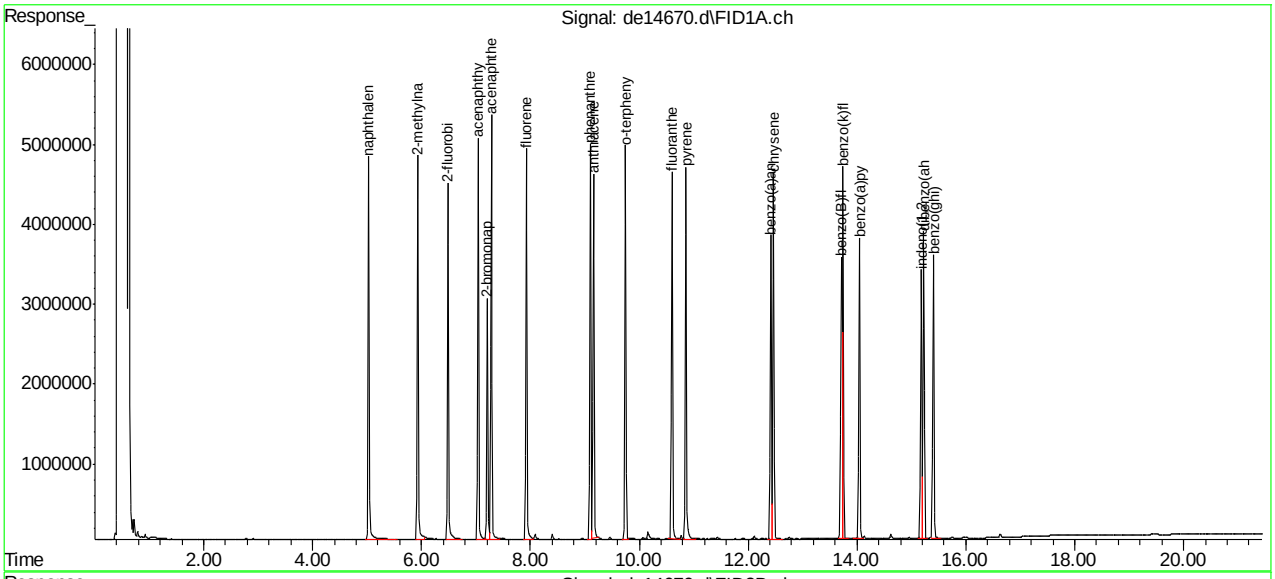
SGS ACCUTEST MC46487

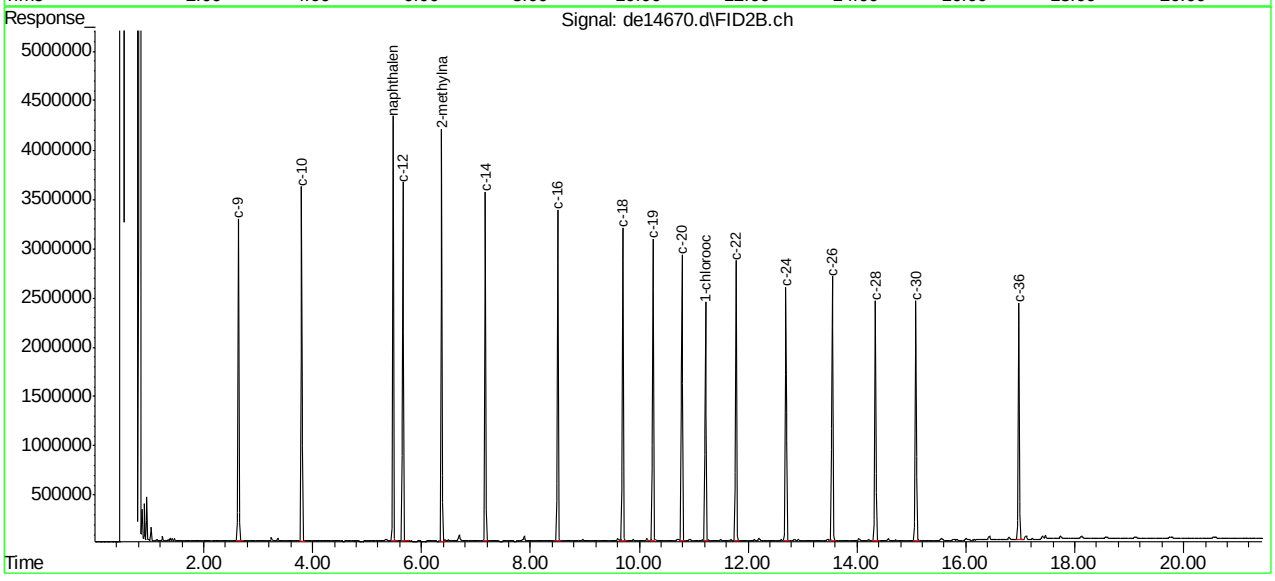
Quantitation Report (QT Reviewed)

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

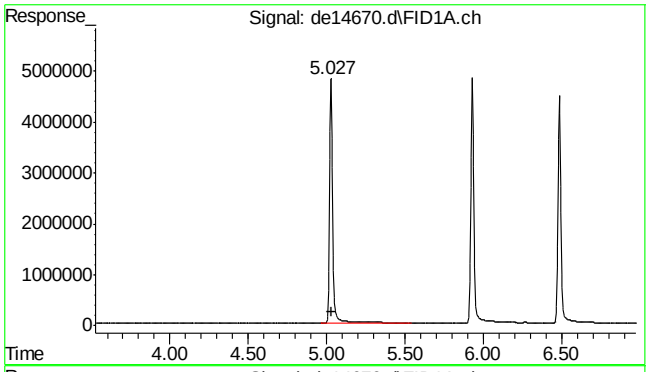
Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



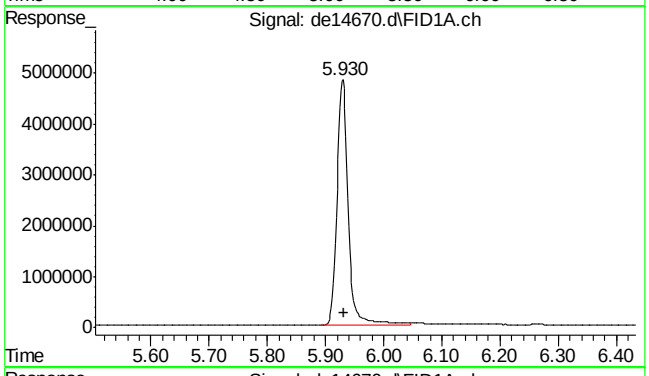



SGS ACCUTEST MC46487



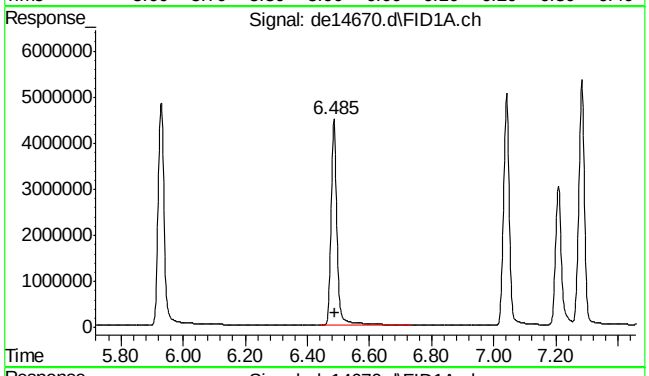

#2 naphthalene

R.T.: 5.027 min
Delta R.T.: -0.003 min
Response: 6623759
Conc: 64.22 µg/ml



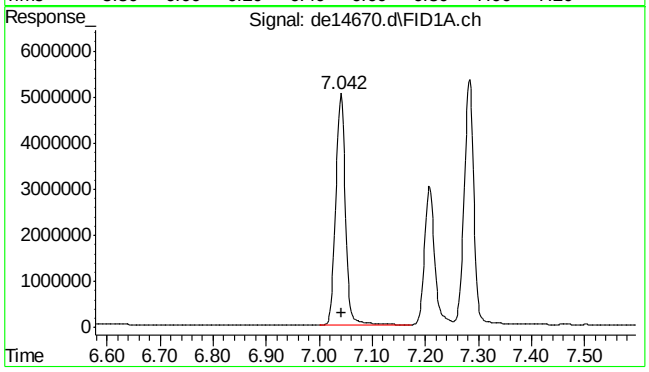

#3 2-methylnaphthalene

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

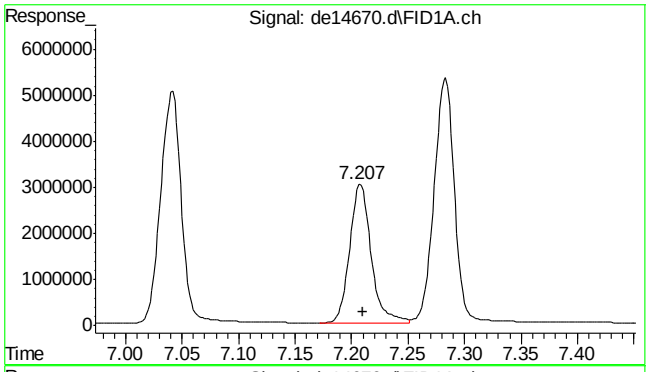
R.T.: 7.042 min
Delta R.T.: 0.000 min
Response: 6467035
Conc: 64.28 µg/ml

9.4.5

9

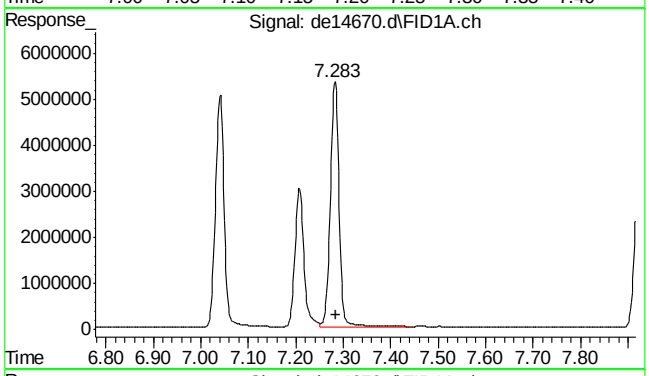


SGS ACCUTEST MC46487



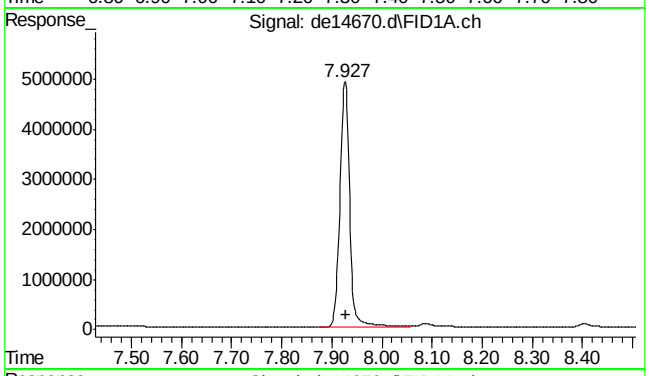

#6 2-bromonaphthalene

R.T.: 7.207 min
Delta R.T.: -0.003 min
Response: 3983702
Conc: 63.48 µg/ml



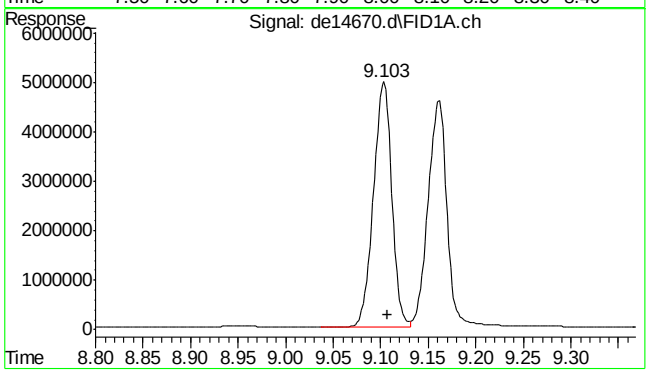

#7 acenaphthene

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

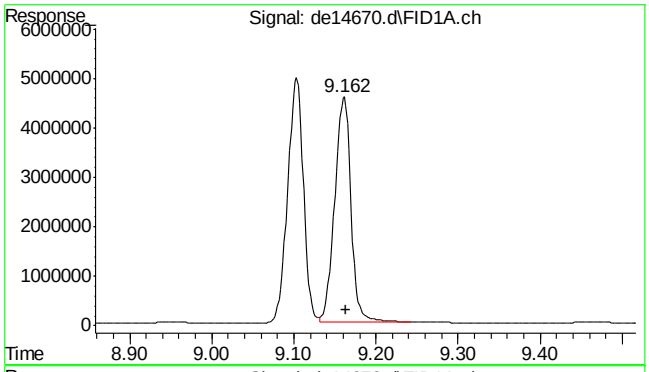
R.T.: 9.103 min
Delta R.T.: -0.003 min
Response: 6609576
Conc: 64.95 µg/ml

9.4.5

9

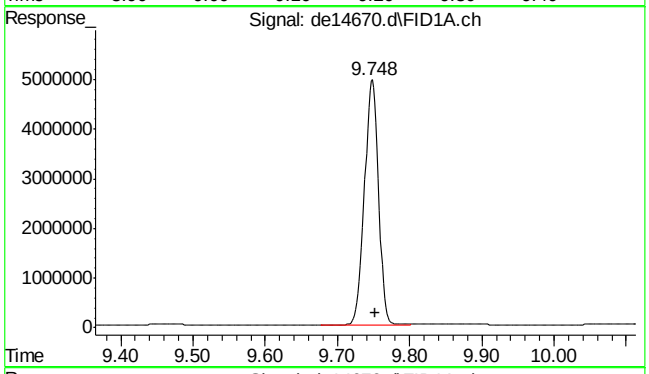


SGS ACCUTEST MC46487



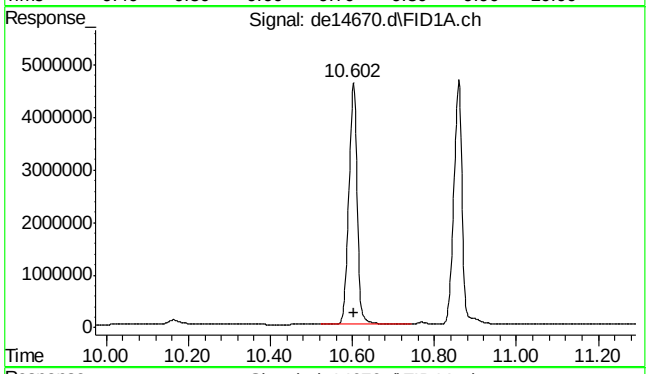

#10 anthracene

R.T.: 9.162 min
Delta R.T.: -0.002 min
Response: 6241594
Conc: 64.34 µg/ml



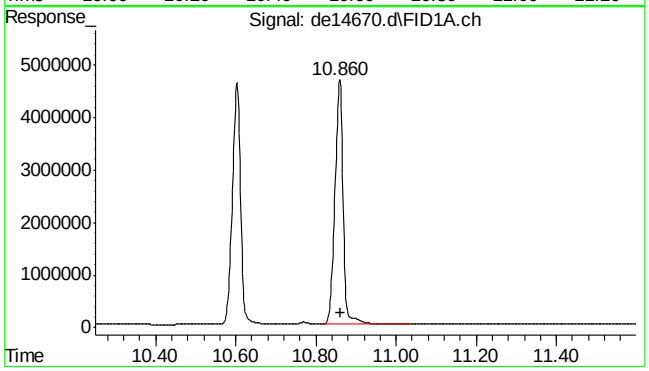

#11 o-terphenyl

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

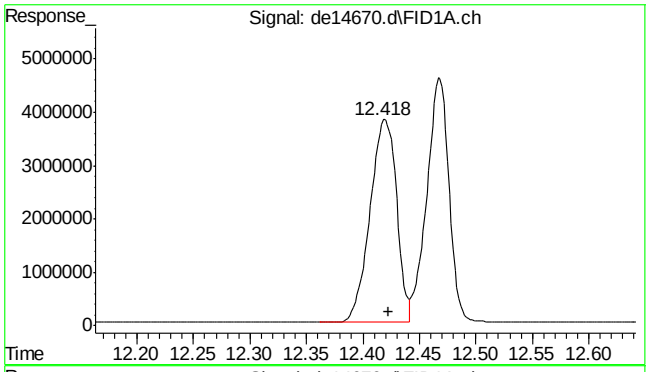
R.T.: 10.860 min
Delta R.T.: -0.002 min
Response: 6691657
Conc: 65.95 µg/ml

9.4.5

9

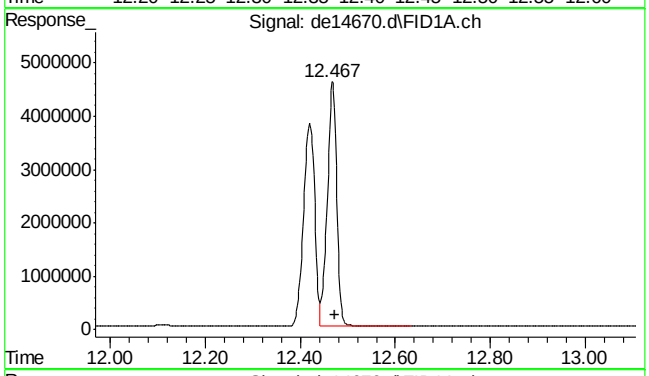


SGS ACCUTEST MC46487



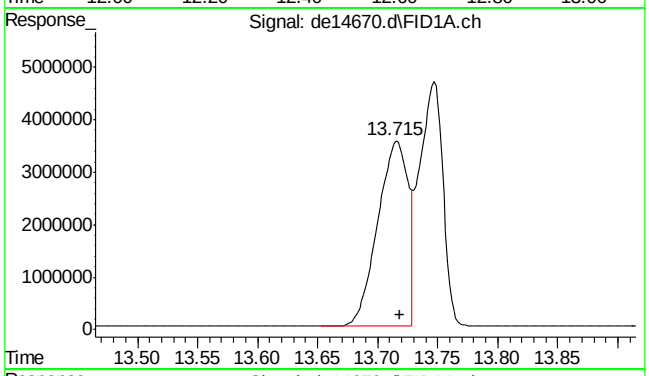

#14 benzo(a)anthracene

R.T.: 12.418 min
Delta R.T.: -0.005 min
Response: 6286876
Conc: 65.03 µg/ml



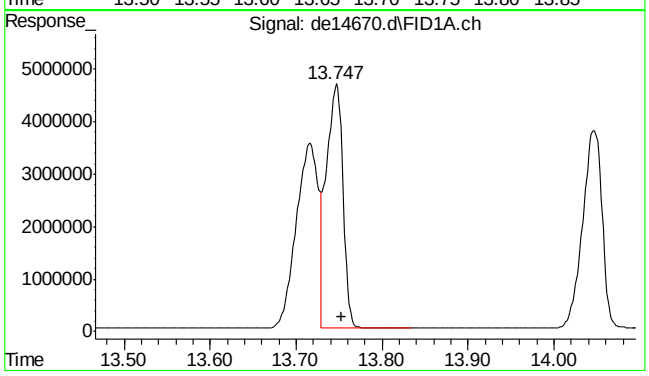

#15 chrysene

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





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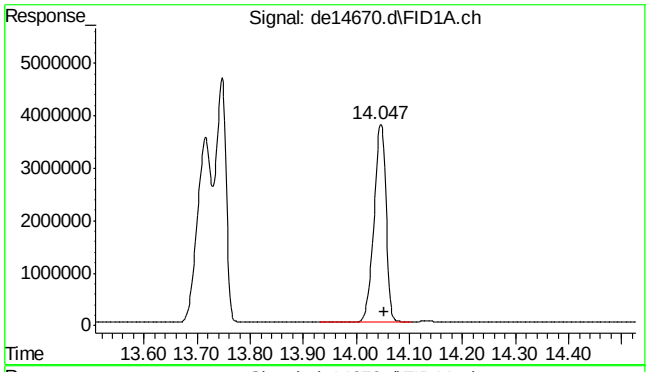
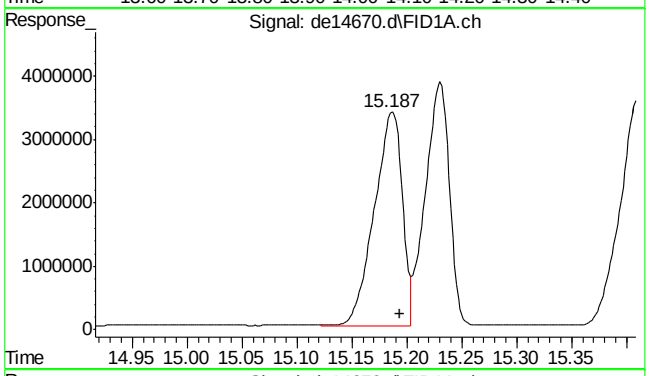


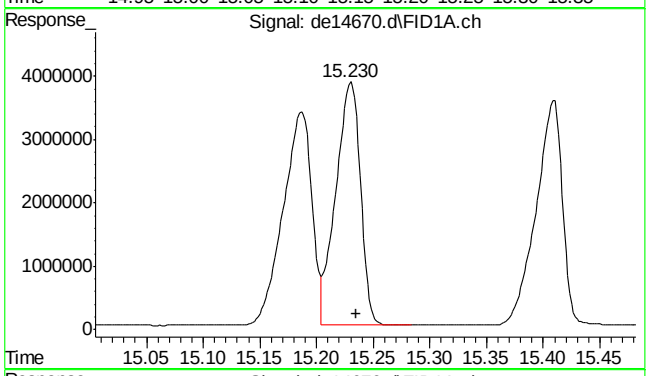

#18 benzo(a)pyrene

R.T.: 14.047 min
Delta R.T.: -0.007 min
Response: 5968168
Conc: 64.57 µg/ml



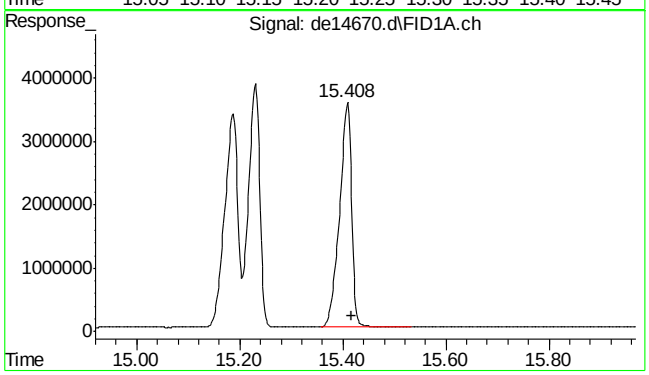

#19 indeno(1,2,3-cd)pyrene

R.T.: 15.187 min
Delta R.T.: -0.007 min
Response: 5972476
Conc: 63.10 µg/ml m




#20 dibenzo(ah)anthracene

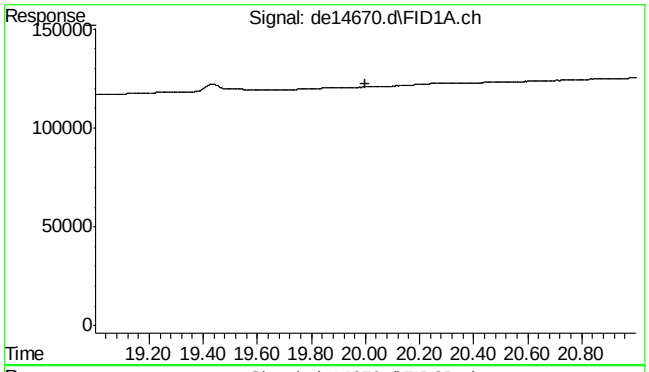
R.T.: 15.230 min
Delta R.T.: -0.005 min
Response: 5802054
Conc: 63.48 µg/ml m




#21 benzo(ghi)perylene

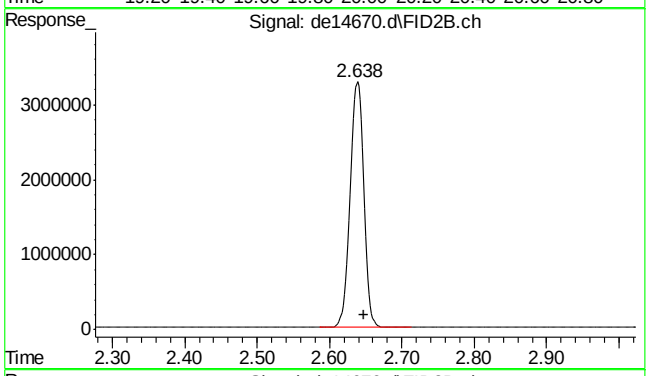
R.T.: 15.408 min
Delta R.T.: -0.008 min
Response: 5770697
Conc: 62.64 µg/ml

9.4.5
9



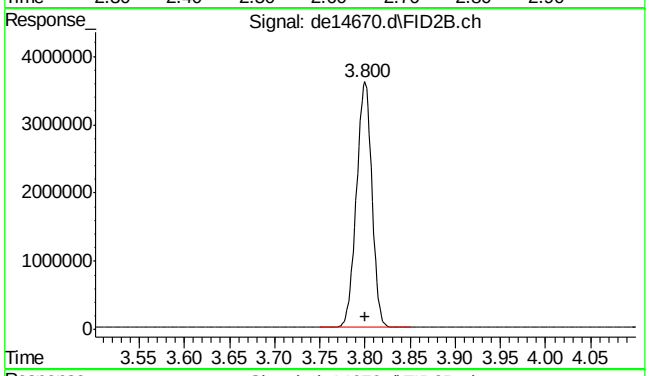

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



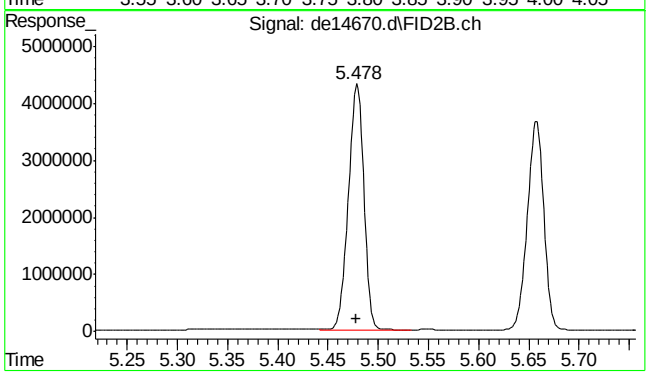

#25 c-9

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



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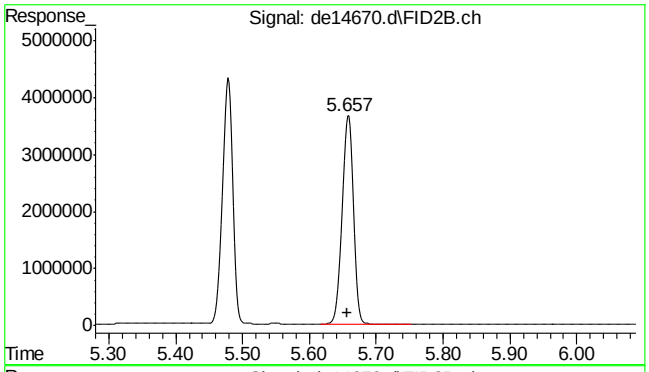
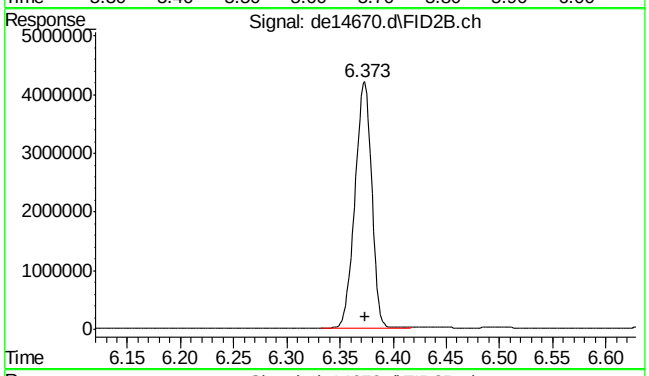


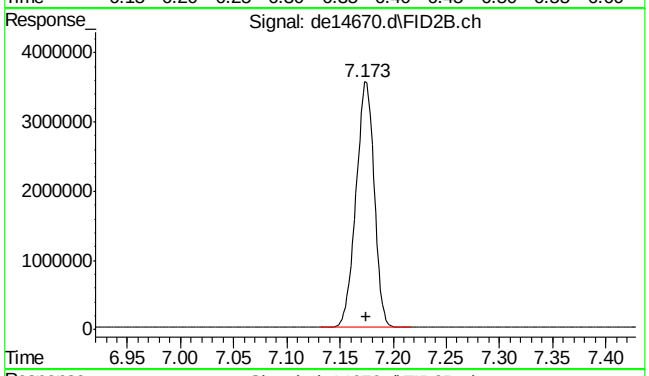

#28 c-12

R.T.: 5.657 min
Delta R.T.: 0.000 min
Response: 4254199
Conc: 57.59 µg/ml



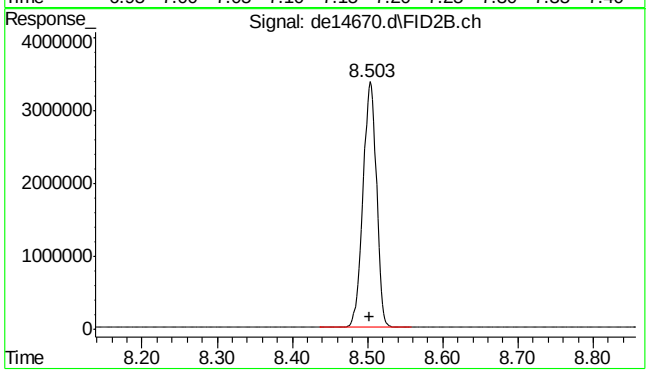

#29 2-methylnaphthalene #2

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

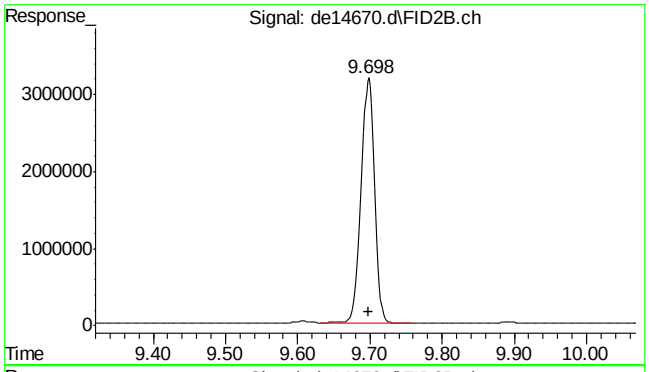
R.T.: 8.503 min
Delta R.T.: 0.000 min
Response: 4179046
Conc: 56.57 µg/ml

9.4.5

9

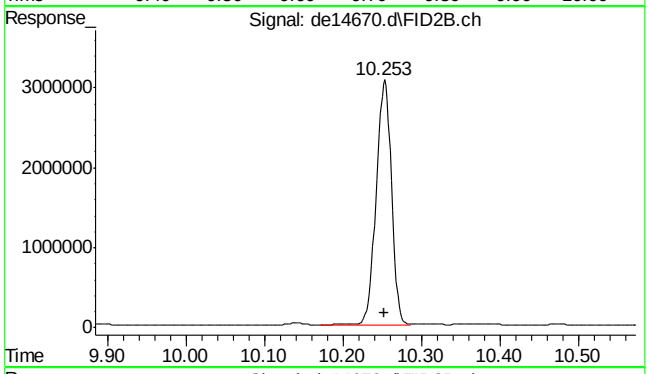


SGS ACCUTEST MC46487



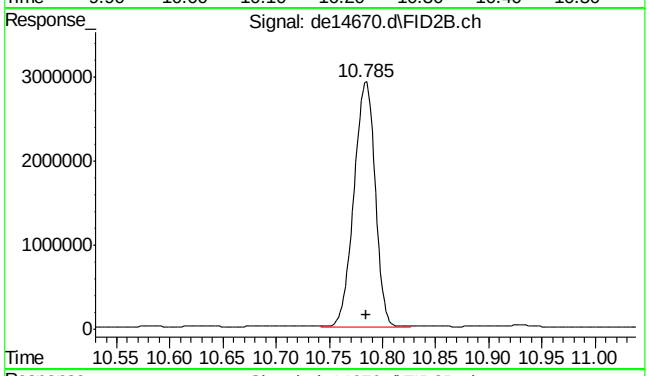

#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 4132964
Conc: 55.95 µg/ml



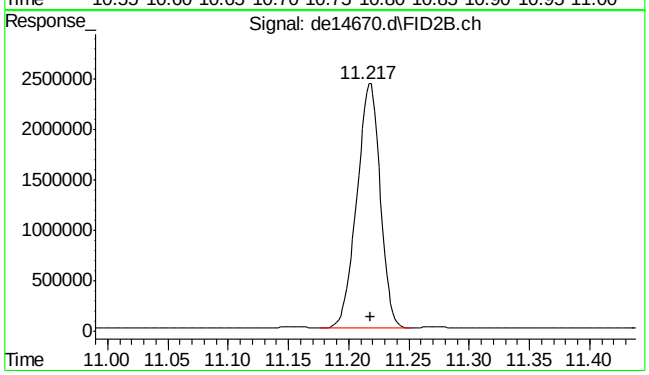

#33 c-19

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

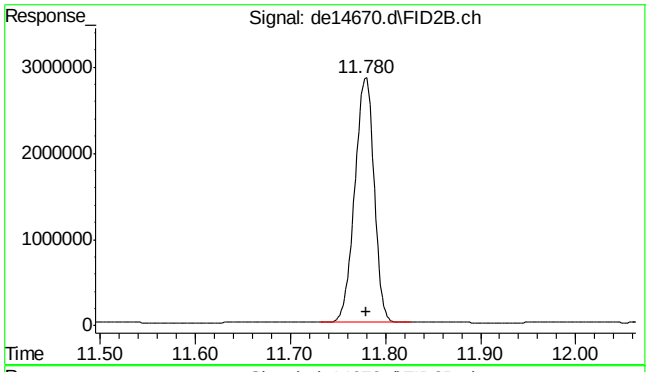
R.T.: 11.217 min
Delta R.T.: -0.002 min
Response: 3273211
Conc: 57.86 µg/ml

9.4.5

9

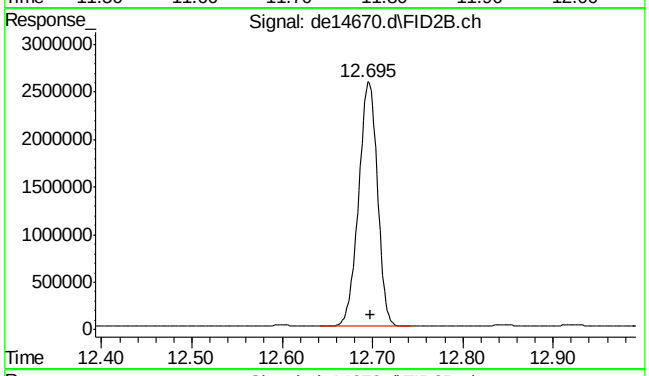


SGS ACCUTEST MC46487



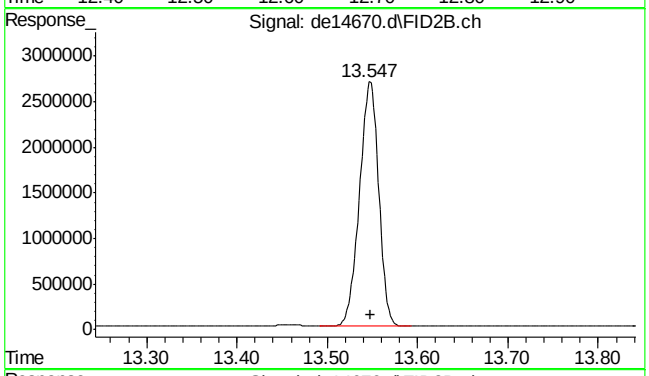

#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 4011818
Conc: 60.05 µg/ml



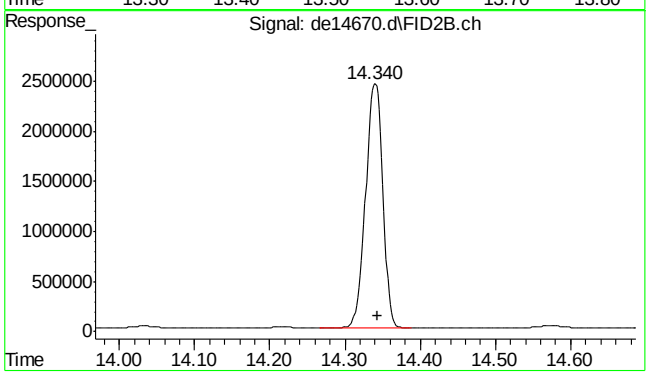

#37 c-24

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

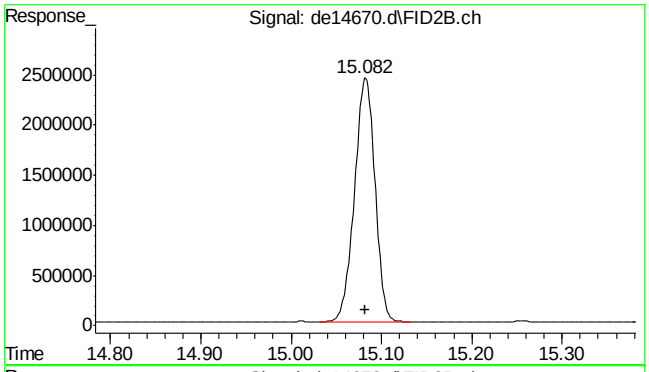
R.T.: 14.340 min
Delta R.T.: -0.003 min
Response: 3856562
Conc: 57.73 µg/ml

9.4.5

9

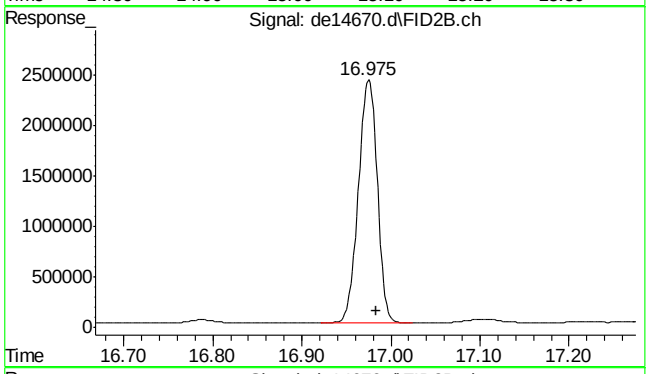


SGS ACCUTEST MC46487



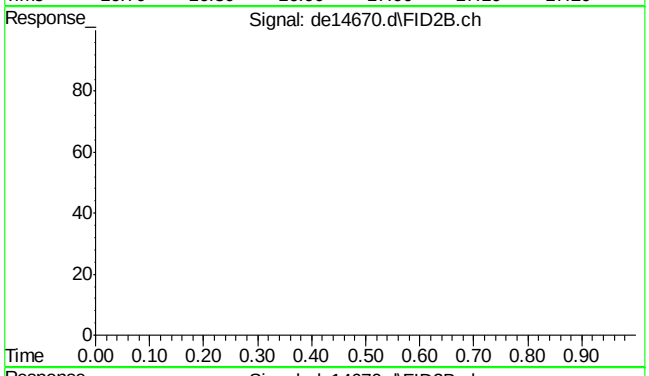

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3850472
Conc: 57.64 µg/ml



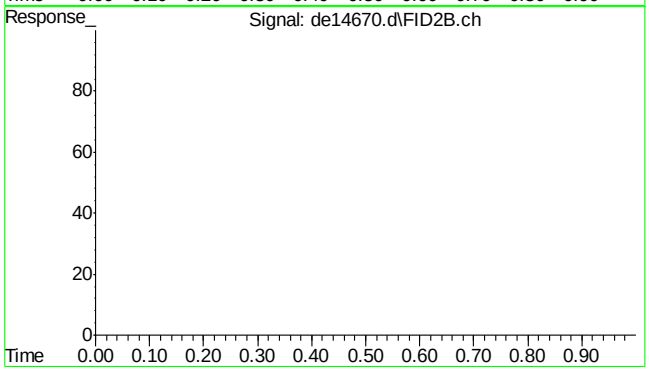

#41 c-36

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.



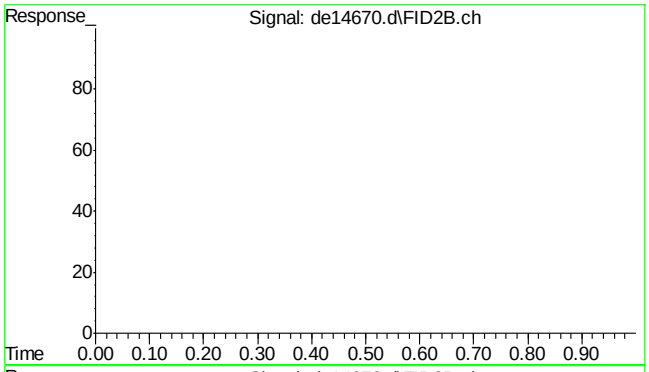

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



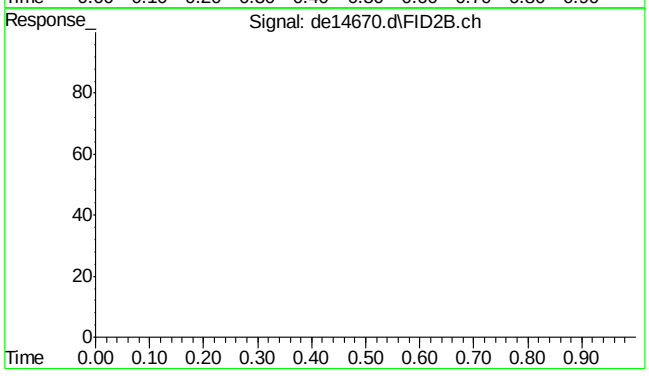


SGS ACCUTEST MC46487




#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



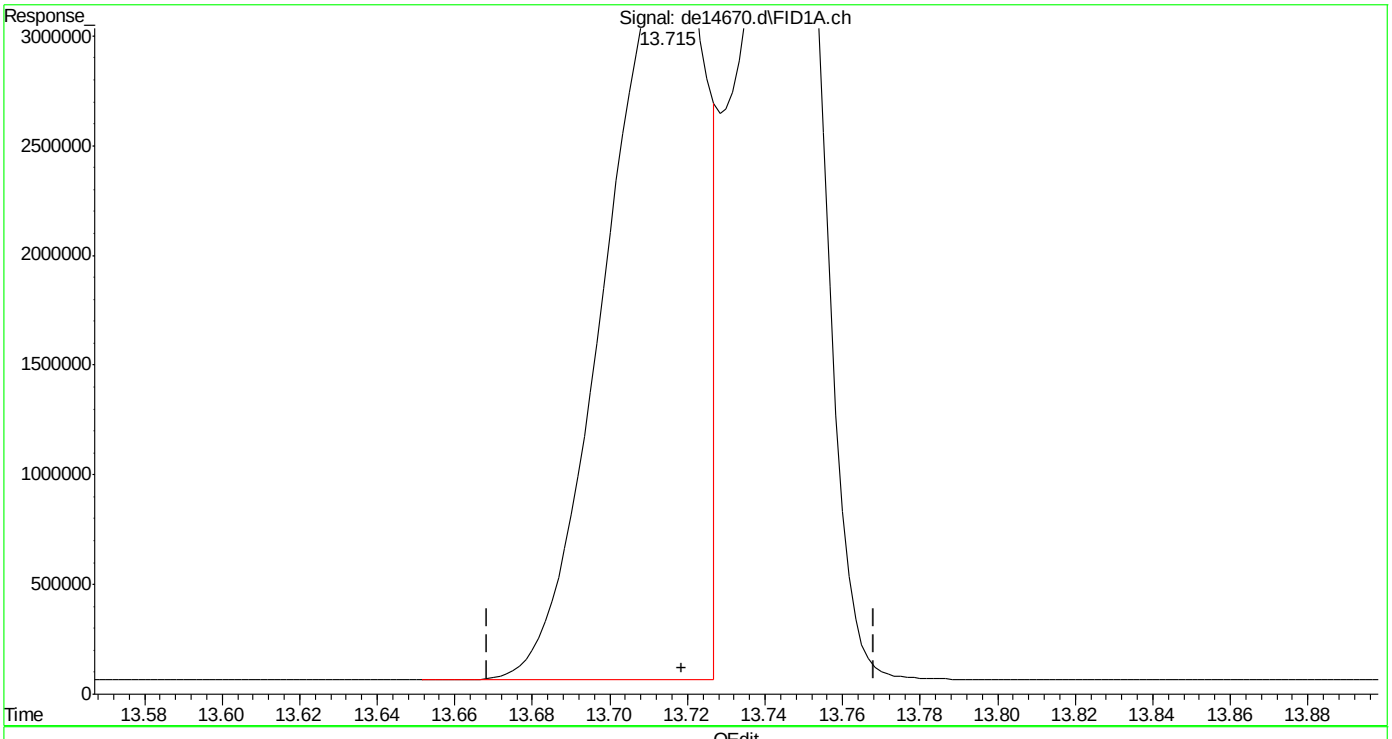
SGS ACCUTEST MC46487

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

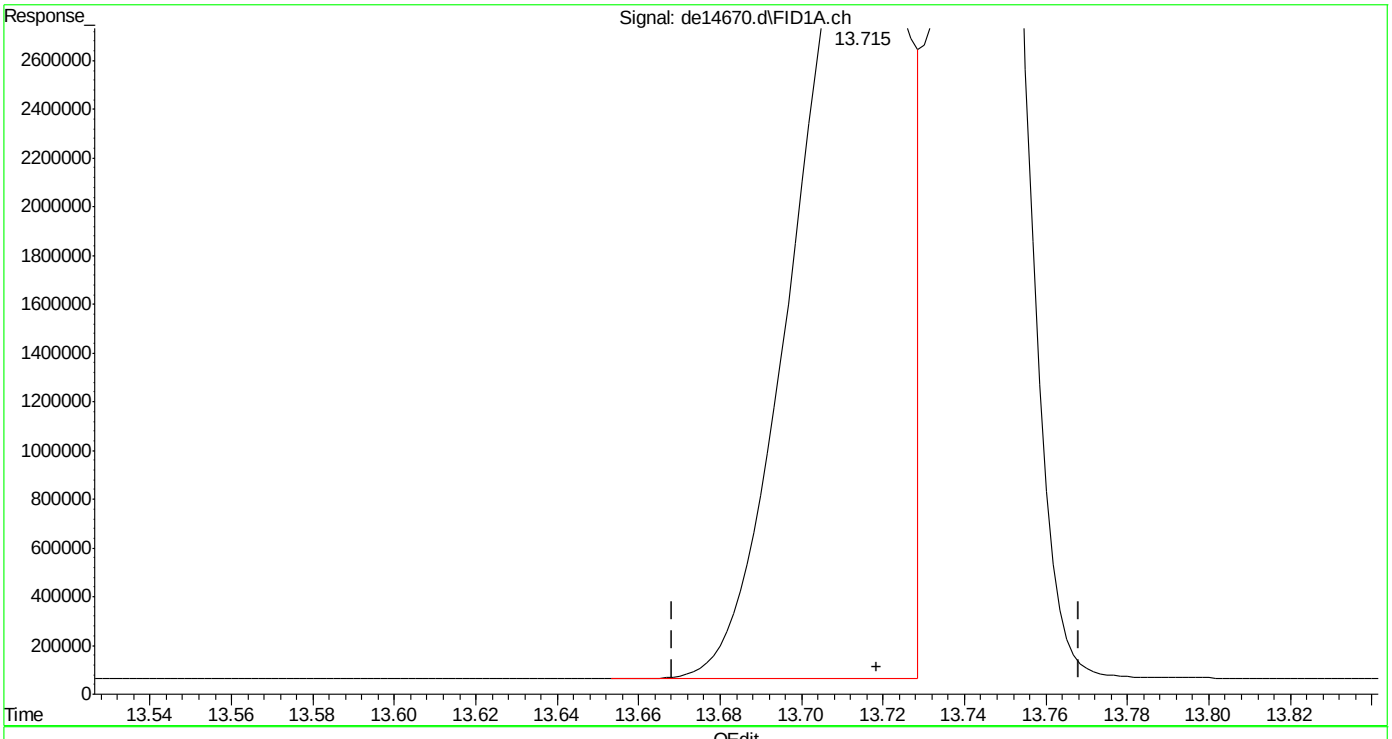
(+) = Expected Retention Time

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

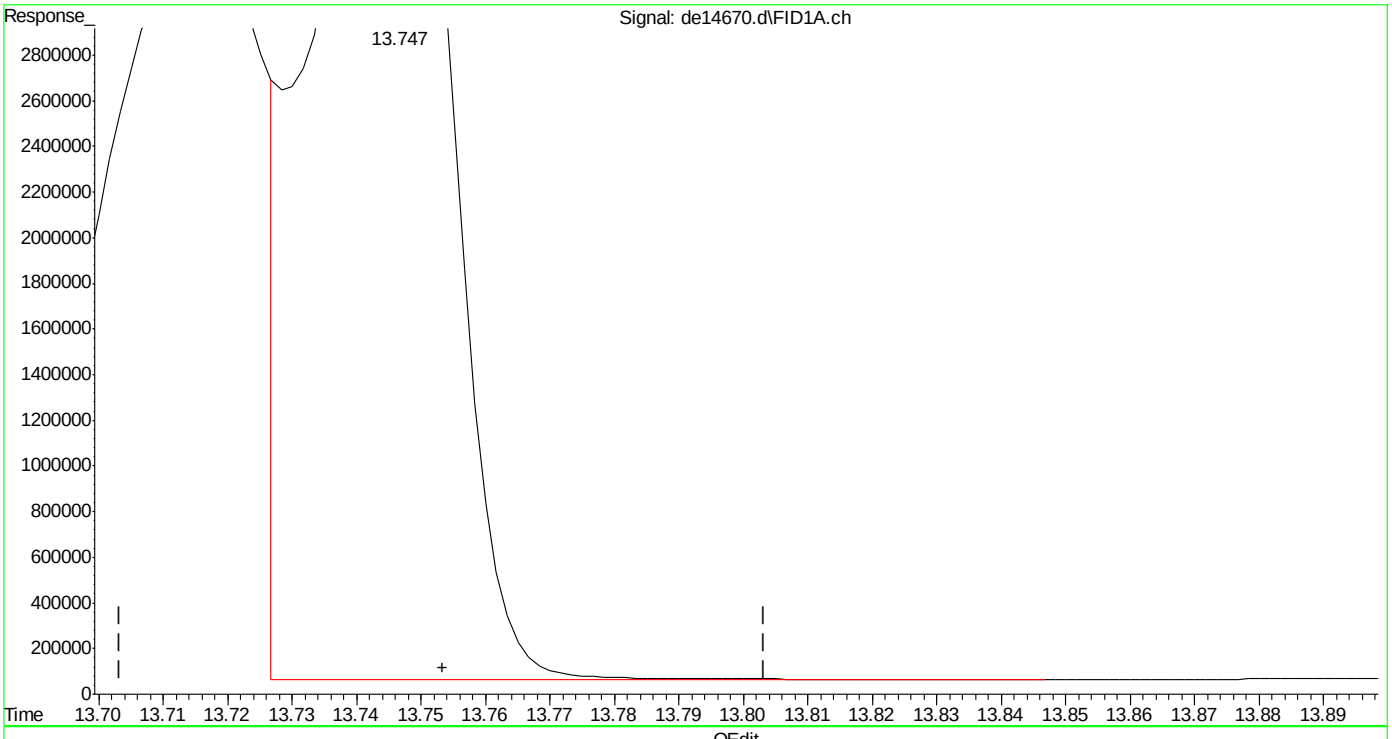
(+) = Expected Retention Time

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

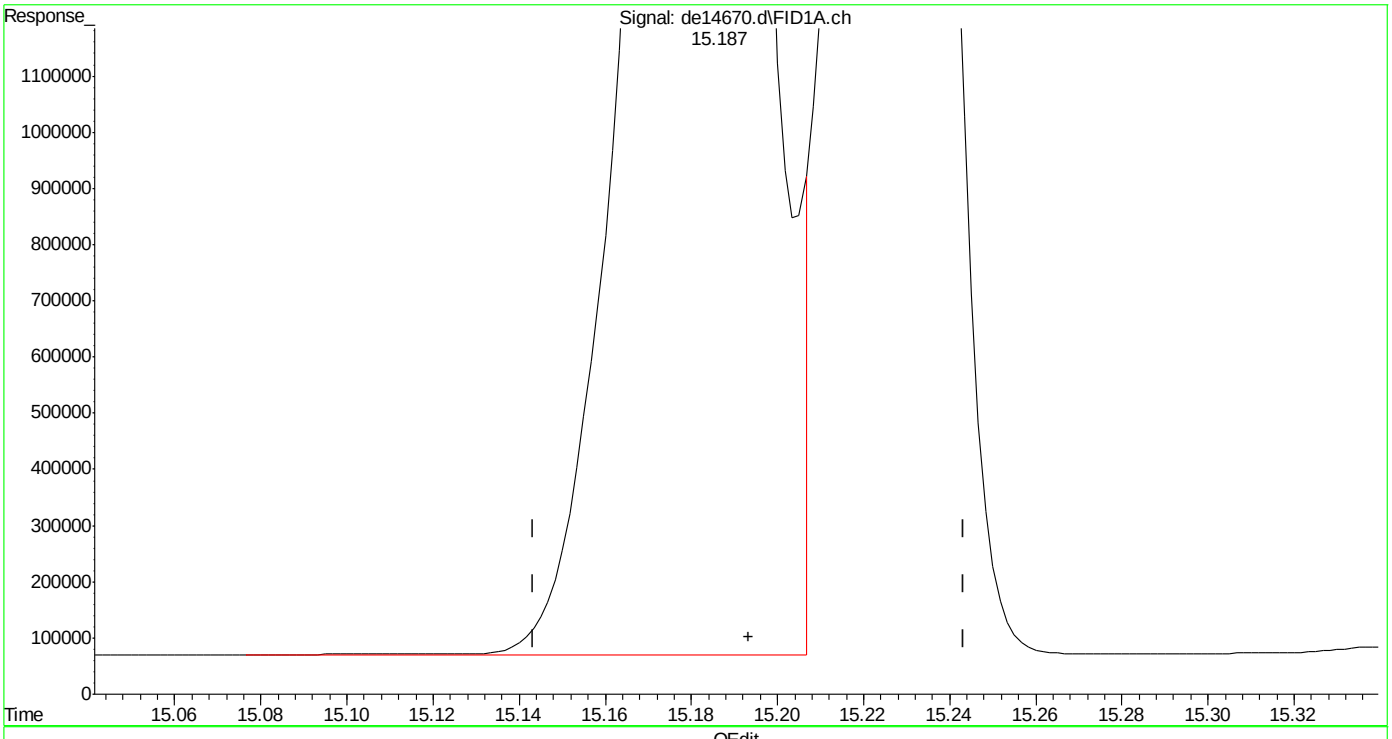
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:46:01 2016

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







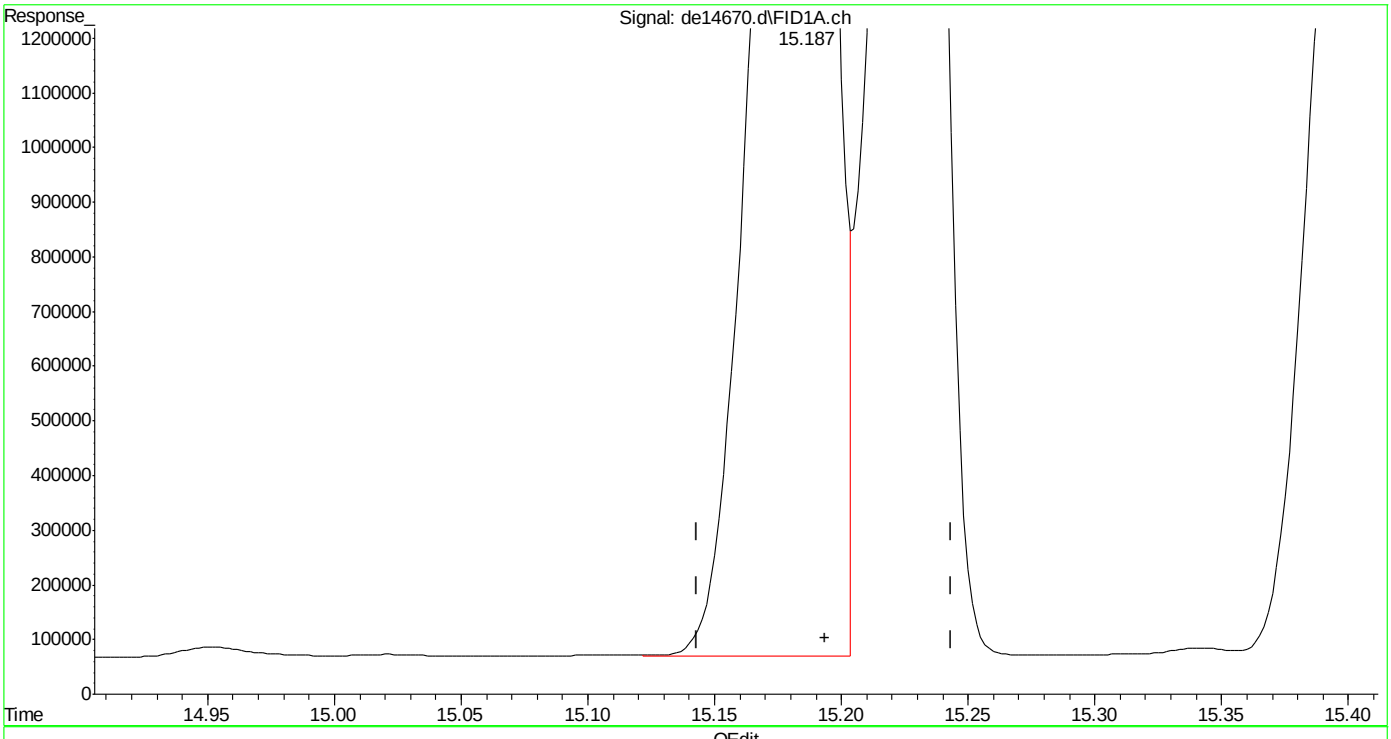
SGS ACCUTEST MC46487

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
EPH160622W.M Thu Jun 23 07:46:39 2016





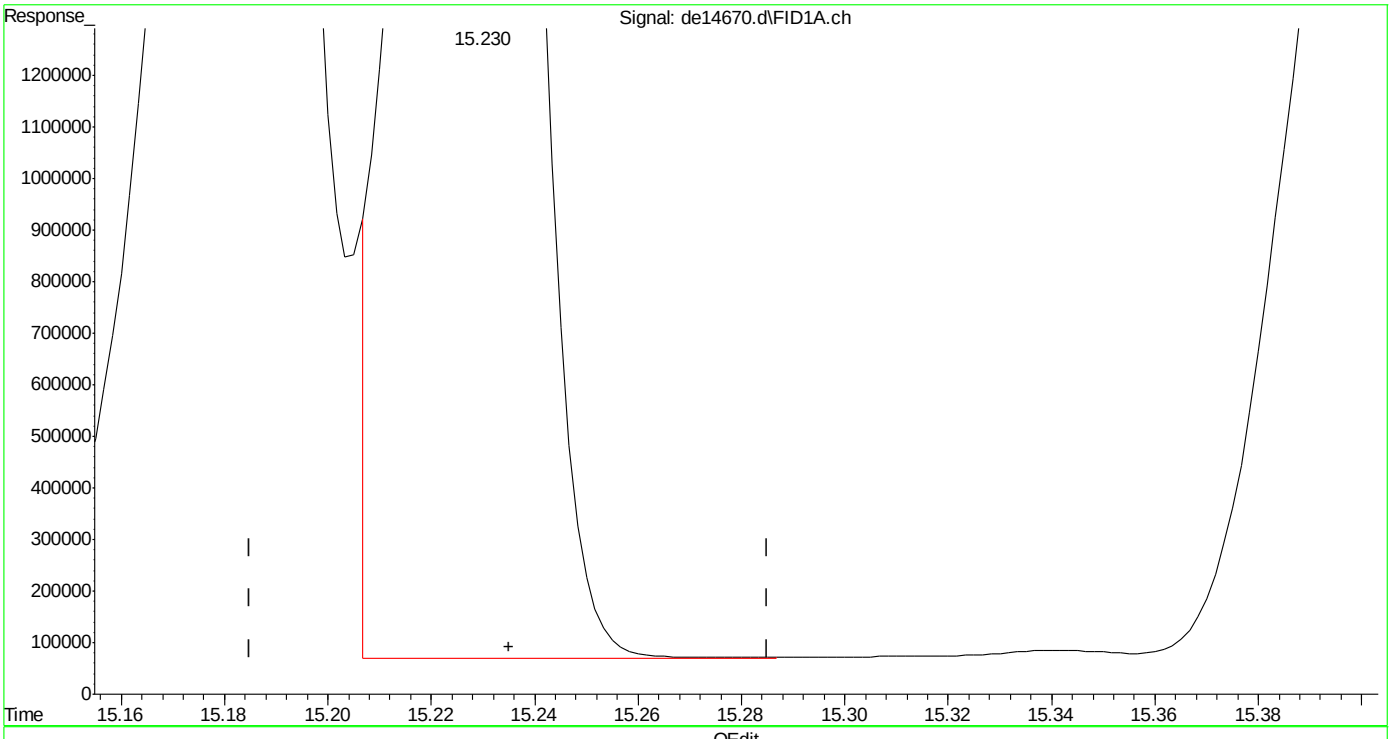
SGS ACCUTEST MC46487

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





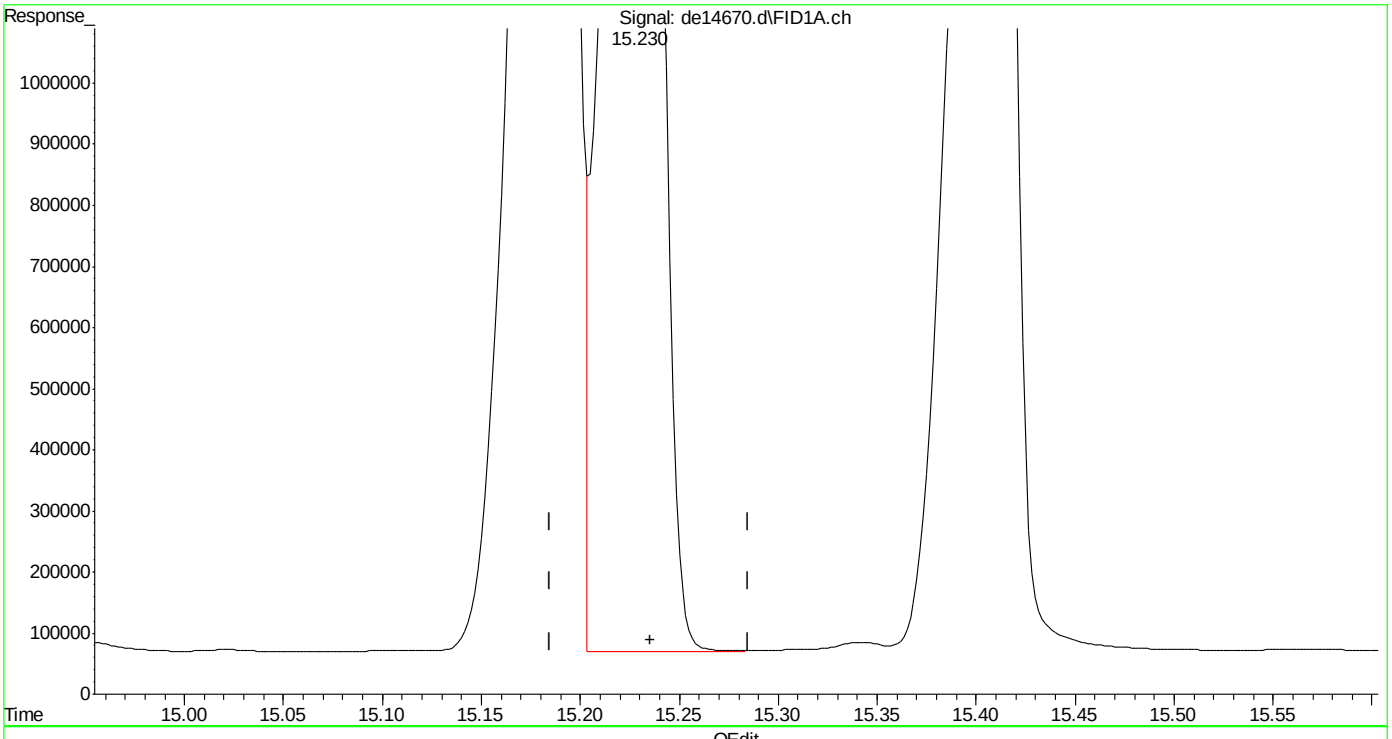
SGS ACCUTEST MC46487

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

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 |



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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 :

| | 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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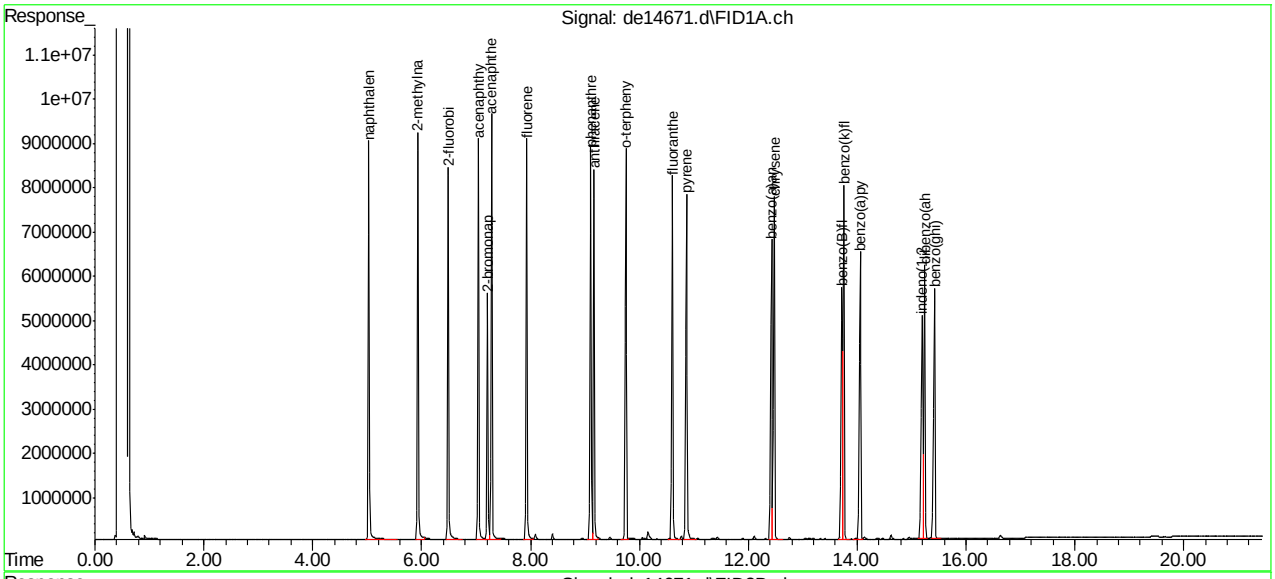
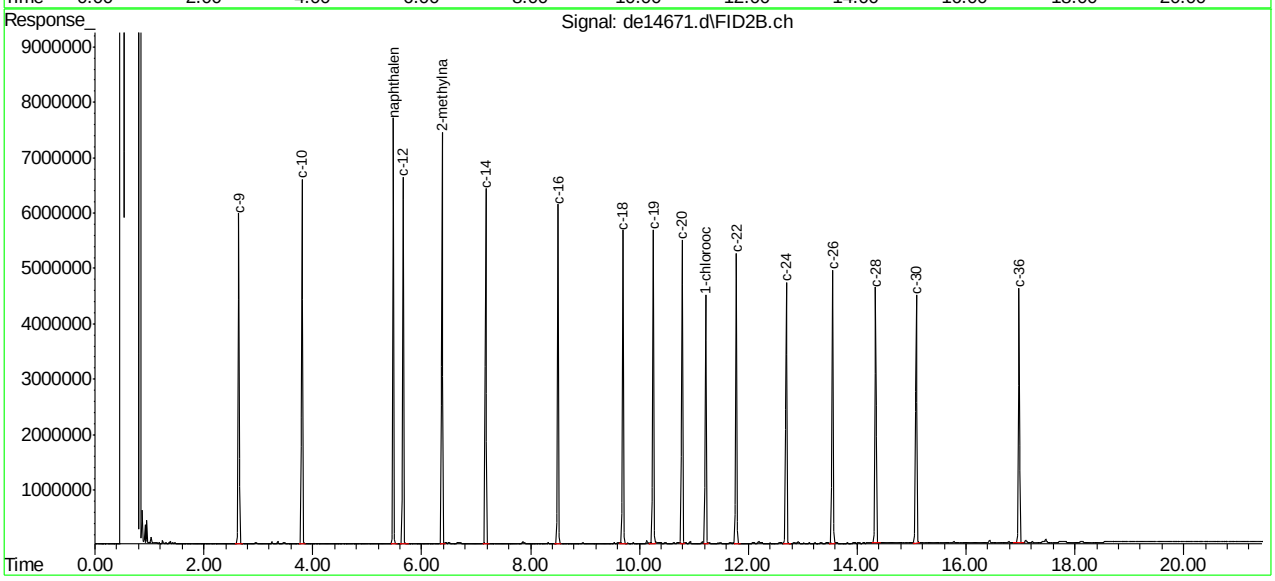
Quantitation Report (QT Reviewed)

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 :





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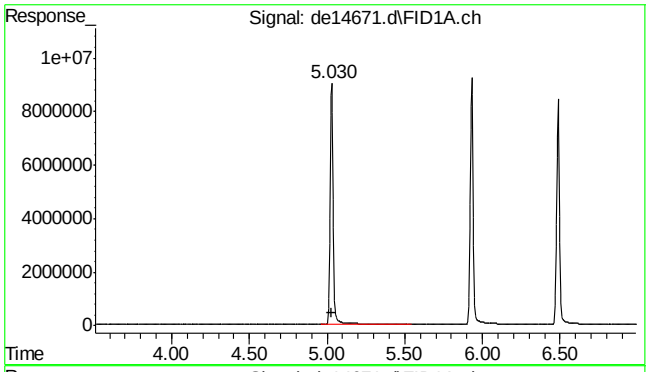
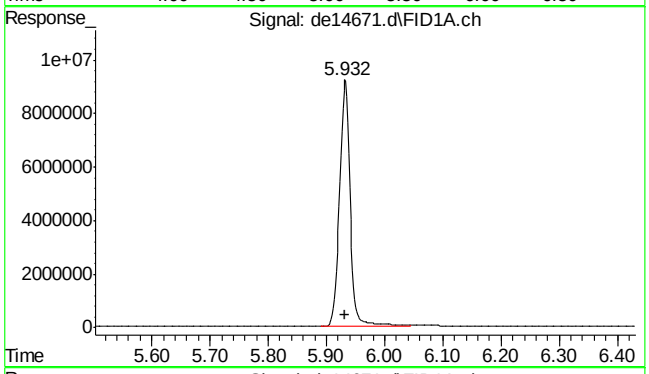


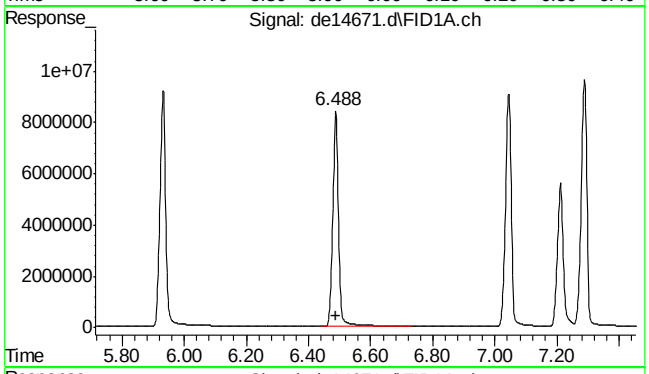

#2 naphthalene

R.T.: 5.030 min
Delta R.T.: 0.000 min
Response: 11983627
Conc: 100.11 µg/ml



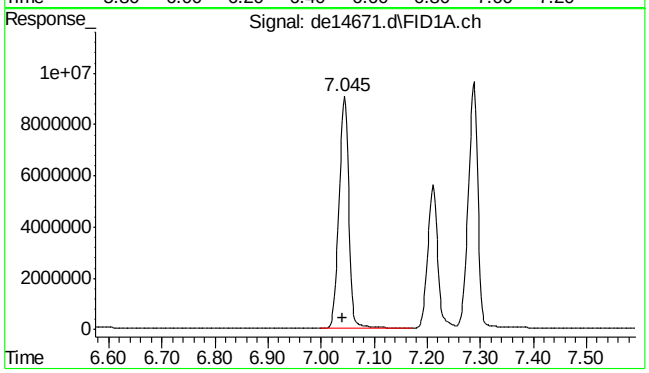

#3 2-methylnaphthalene

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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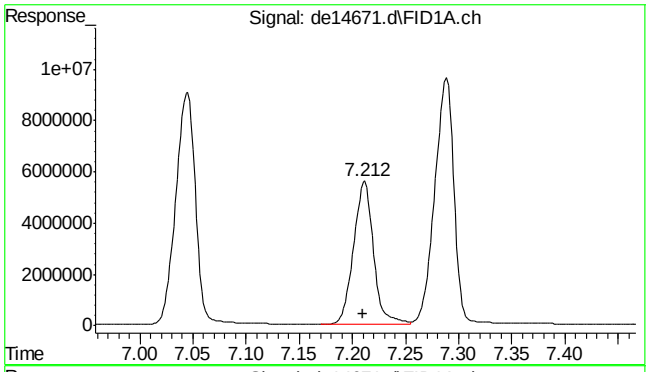
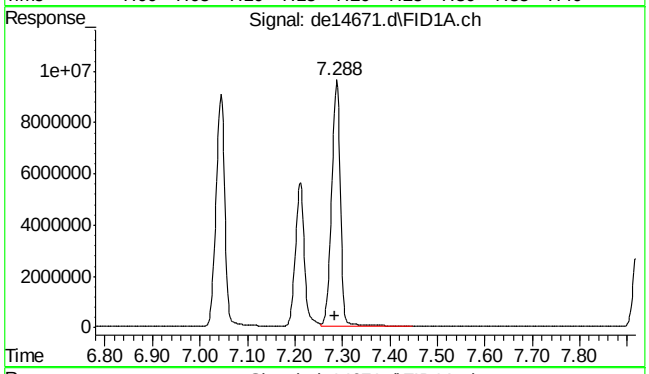


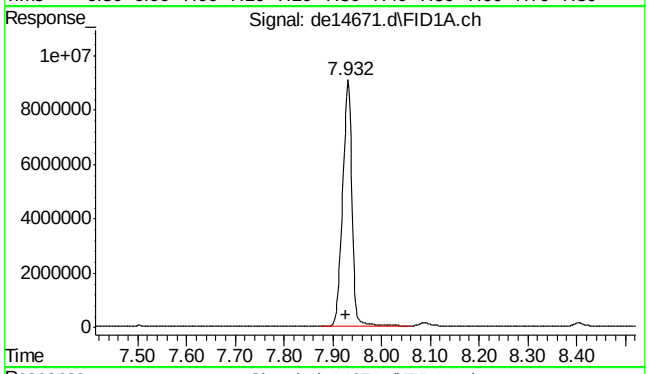

#6 2-bromonaphthalene

R.T.: 7.212 min
Delta R.T.: 0.002 min
Response: 7308924
Conc: 107.71 µg/ml



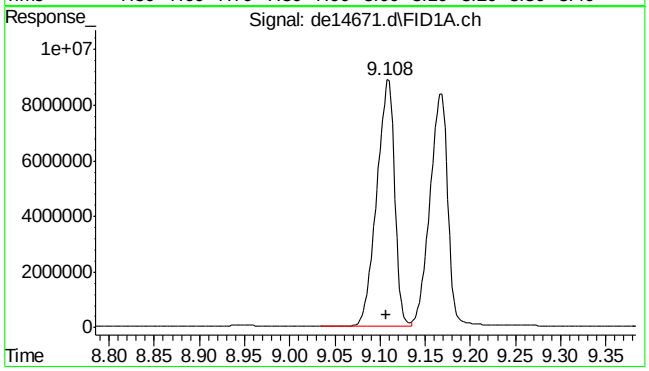

#7 acenaphthene

R.T.: 7.288 min
Delta R.T.: 0.003 min
Response: 12324034
Conc: 93.15 µg/ml



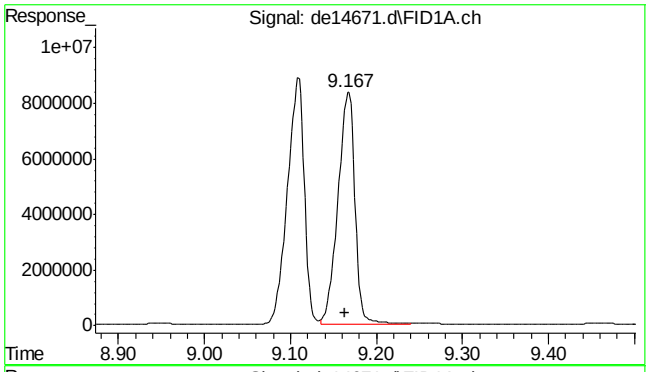

#8 fluorene

R.T.: 7.932 min
Delta R.T.: 0.003 min
Response: 12025206
Conc: 98.79 µg/ml



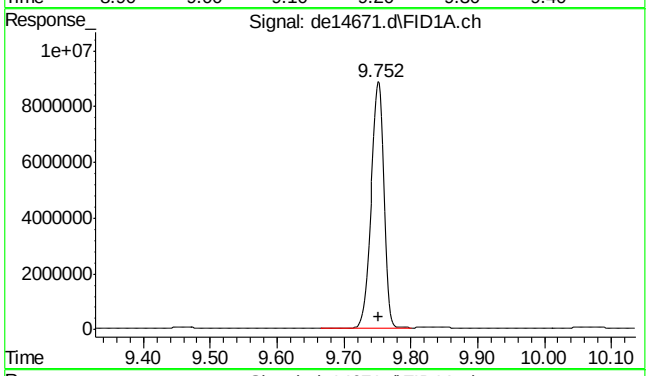

#9 phenanthrene

R.T.: 9.108 min
Delta R.T.: 0.002 min
Response: 12085999
Conc: 102.39 µg/ml



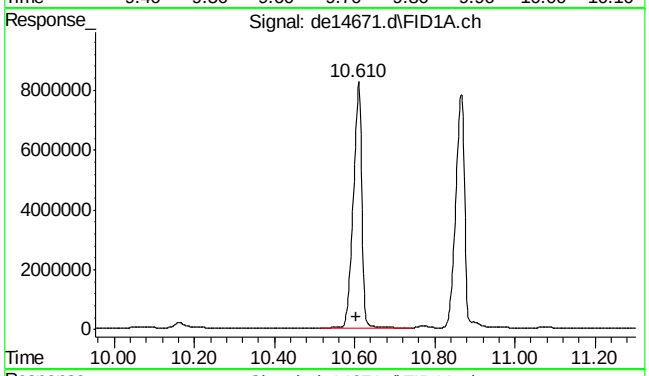

#10 anthracene

R.T.: 9.167 min
Delta R.T.: 0.003 min
Response: 11487748
Conc: 90.76 µg/ml



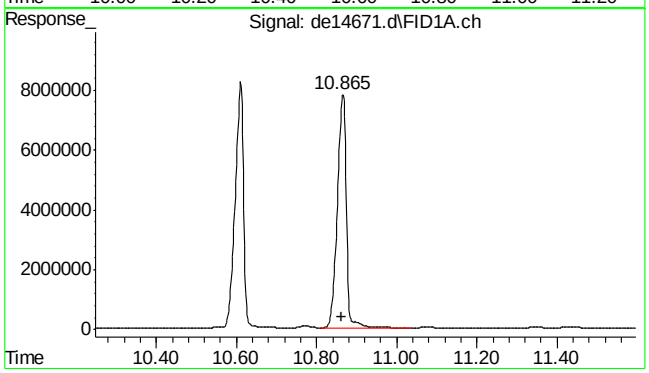

#11 o-terphenyl

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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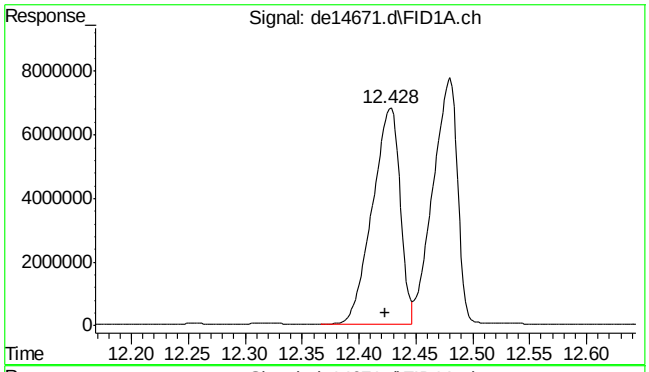
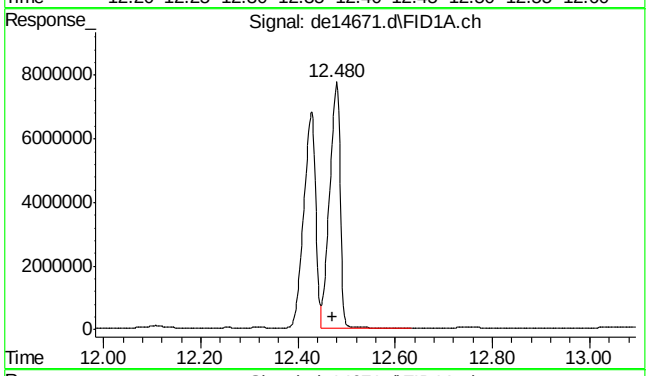


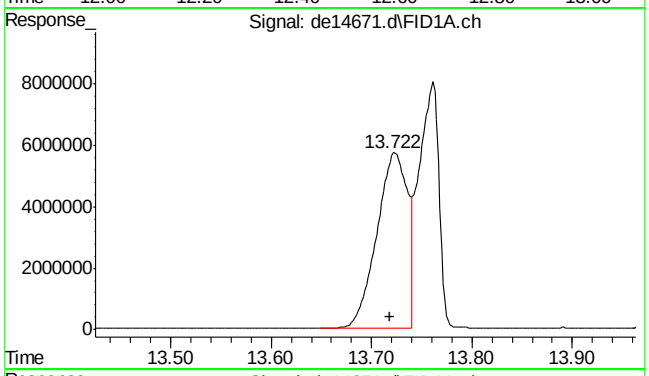

#14 benzo(a)anthracene

R.T.: 12.428 min
Delta R.T.: 0.005 min
Response: 11507490
Conc: 99.89 µg/ml m



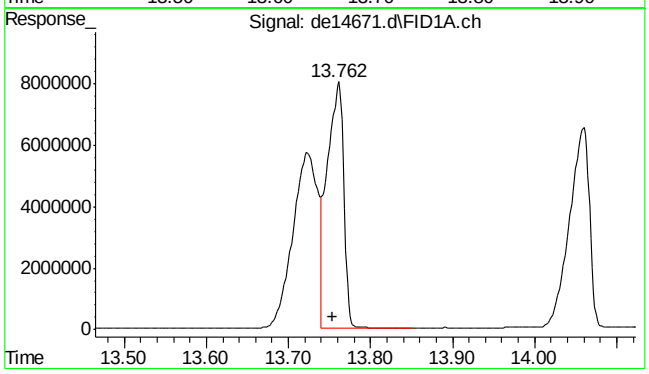

#15 chrysene

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

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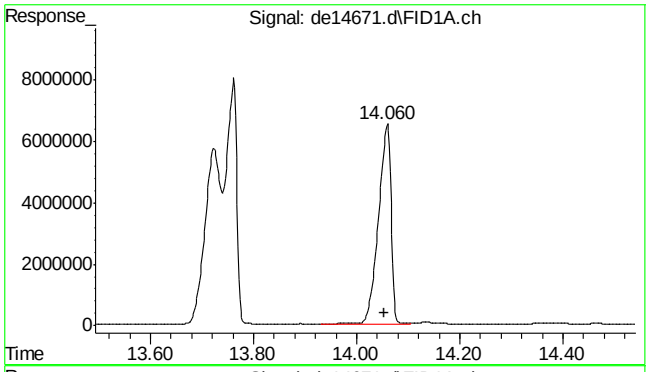
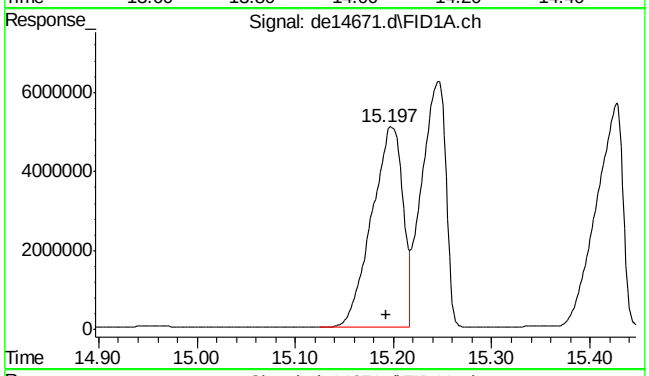


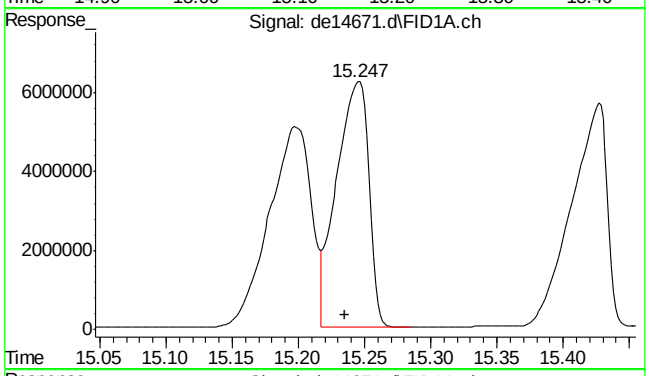

#18 benzo(a)pyrene

R.T.: 14.060 min
Delta R.T.: 0.007 min
Response: 10999807
Conc: 98.01 µg/ml



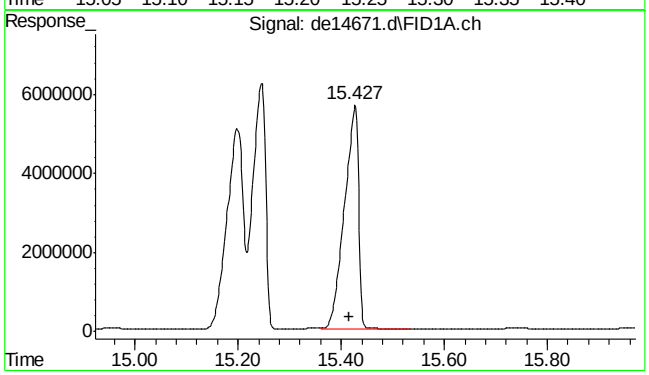

#19 indeno(1,2,3-cd)pyrene

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





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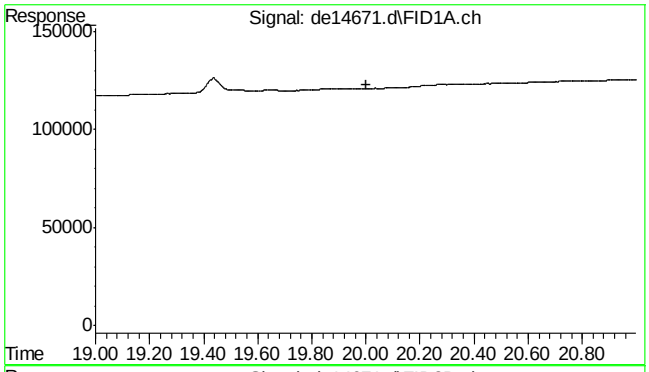
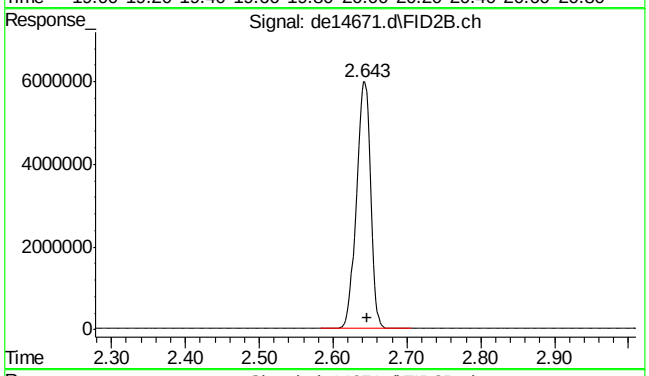


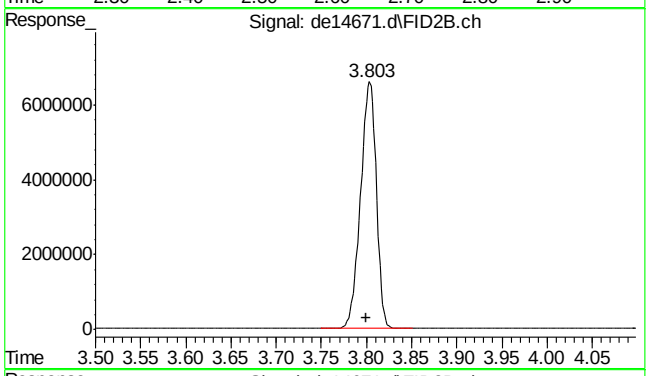

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



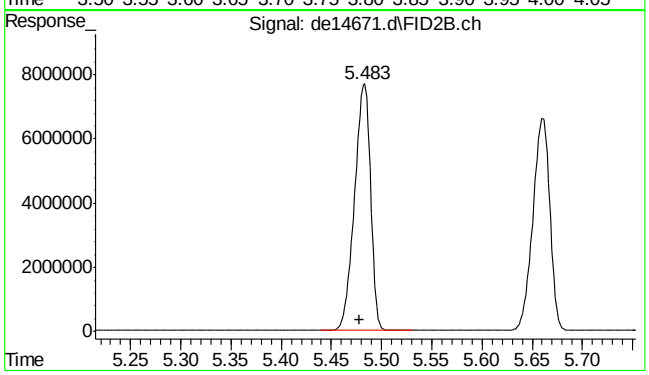

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 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

9.4.6

9



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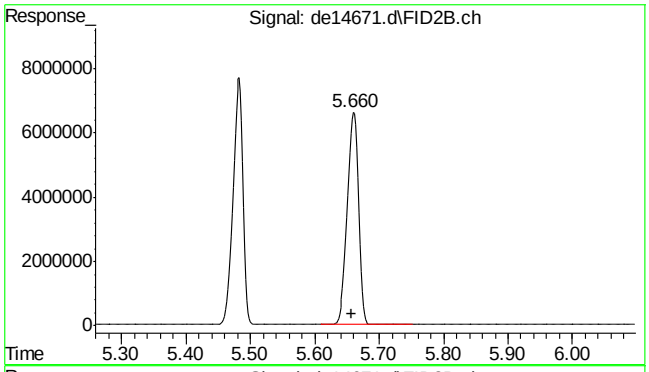
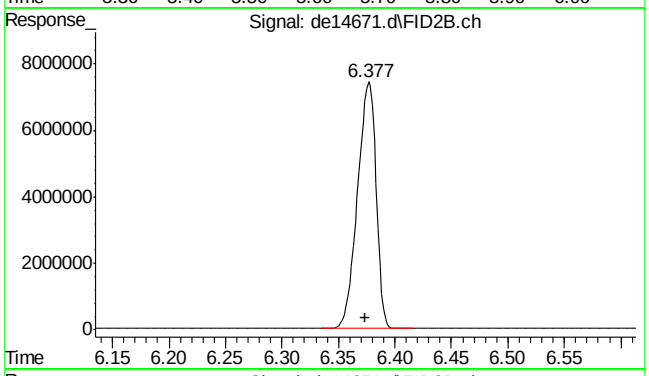


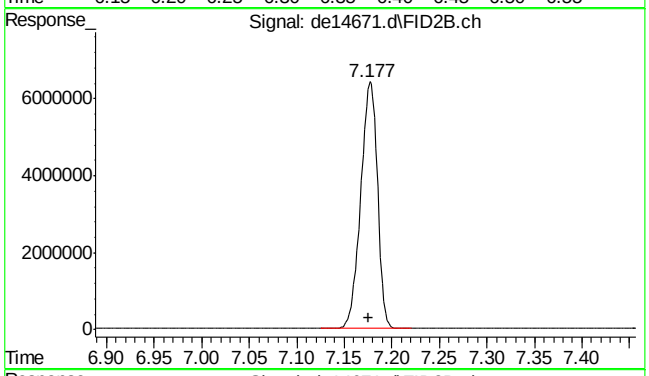

#28 c-12

R.T.: 5.660 min
Delta R.T.: 0.003 min
Response: 7886242
Conc: 93.41 µg/ml



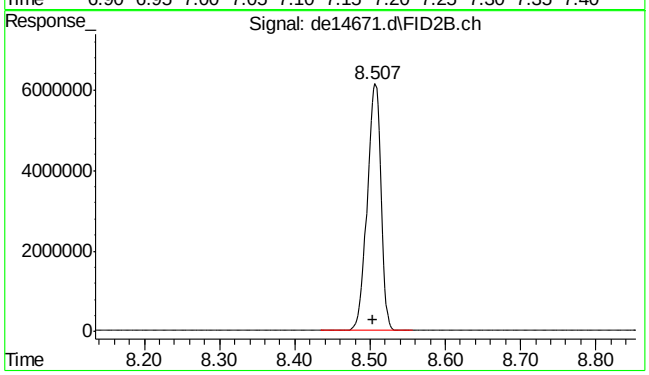

#29 2-methylnaphthalene #2

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



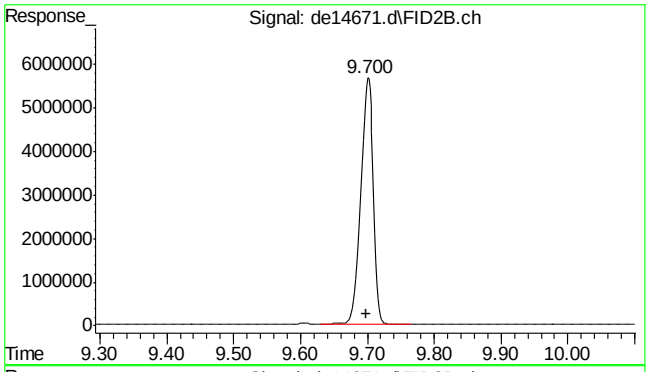

#31 c-16

R.T.: 8.507 min
Delta R.T.: 0.003 min
Response: 7764221
Conc: 91.26 µg/ml



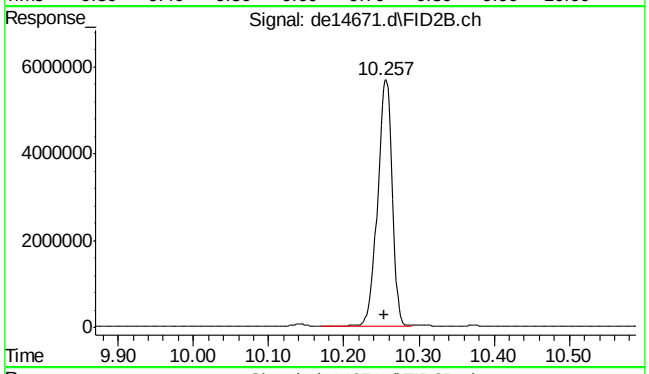


SGS ACCUTEST MC46487



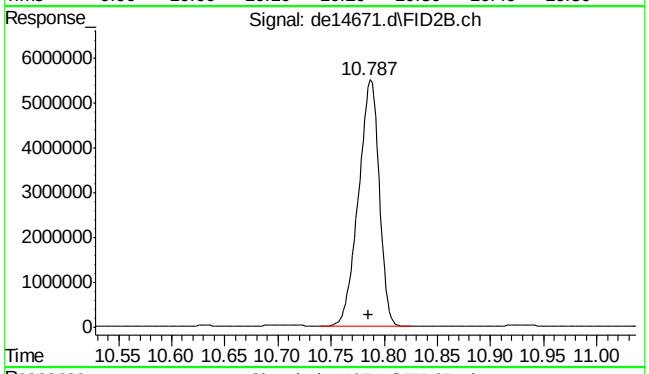

#32 c-18

R.T.: 9.700 min
Delta R.T.: 0.002 min
Response: 7676676
Conc: 91.86 µg/ml



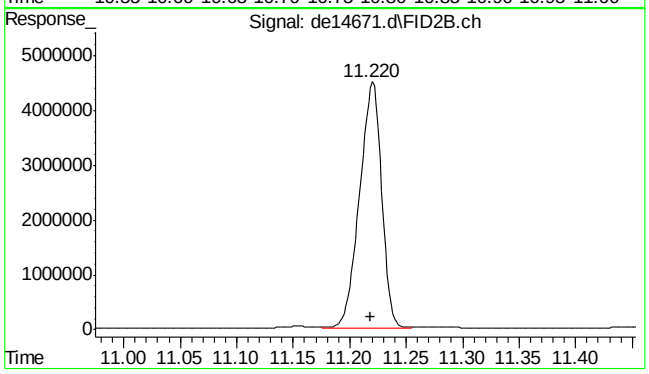

#33 c-19

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

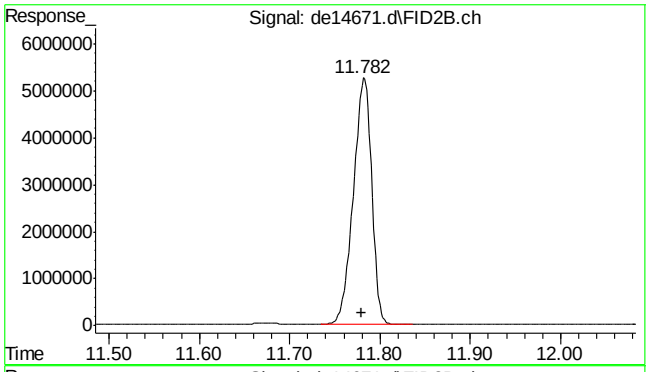
R.T.: 11.220 min
Delta R.T.: 0.002 min
Response: 6055700
Conc: 96.67 µg/ml

9.4.6

9

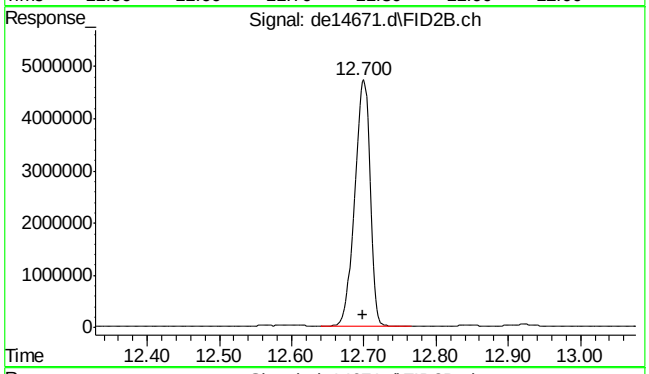


SGS ACCUTEST MC46487



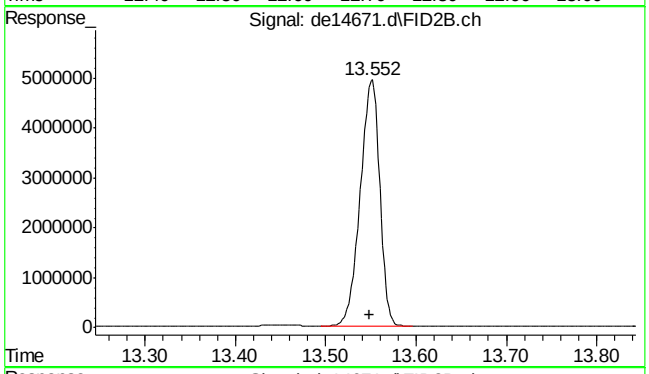

#36 c-22

R.T.: 11.782 min
Delta R.T.: 0.002 min
Response: 7420088
Conc: 92.90 µg/ml



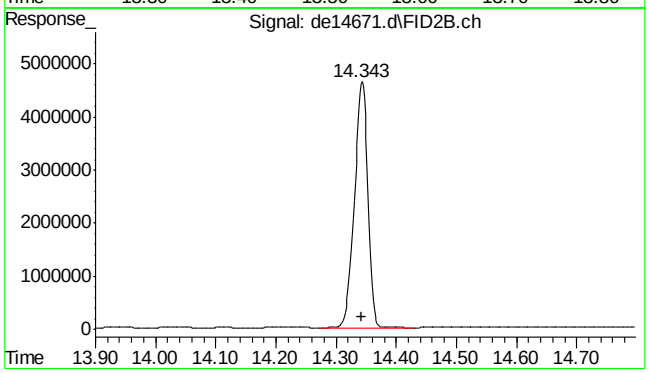

#37 c-24

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



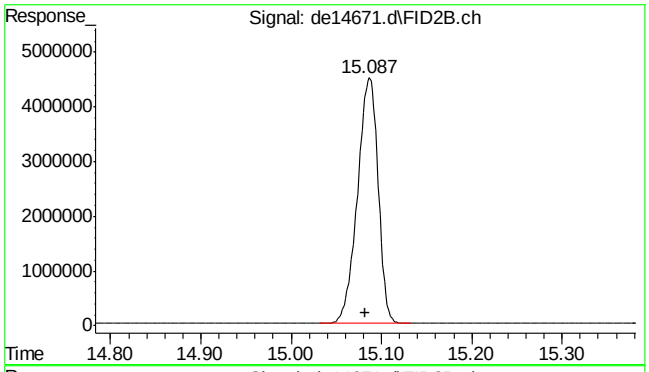

#39 c-28

R.T.: 14.343 min
Delta R.T.: 0.000 min
Response: 7155151
Conc: 94.26 µg/ml



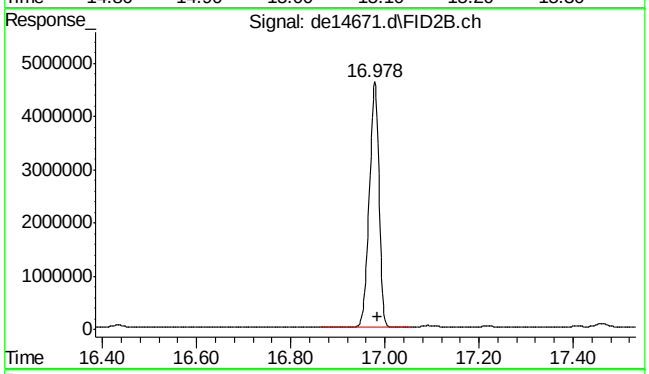


SGS ACCUTEST MC46487



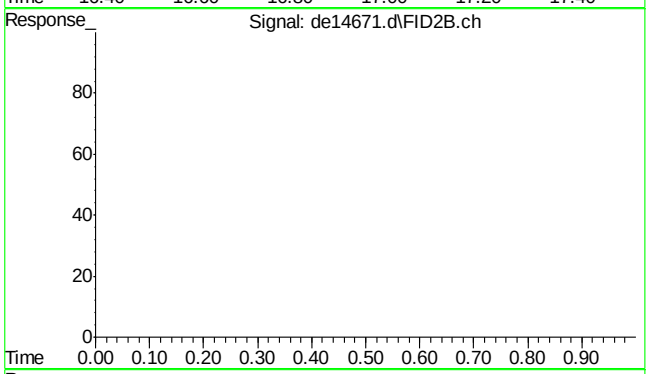

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 7181147
Conc: 87.30 µg/ml



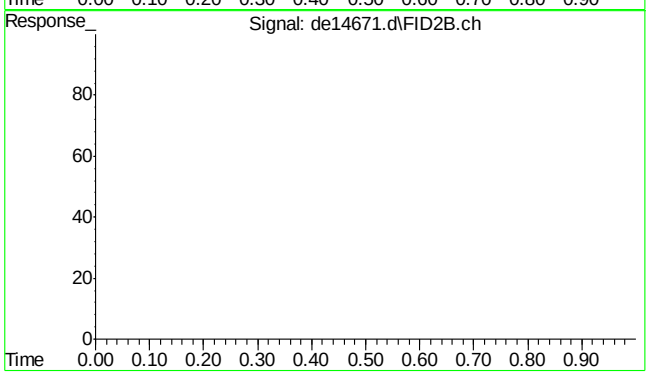

#41 c-36

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.

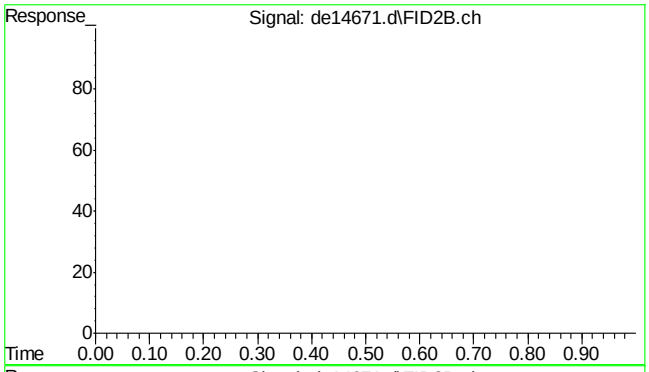



#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

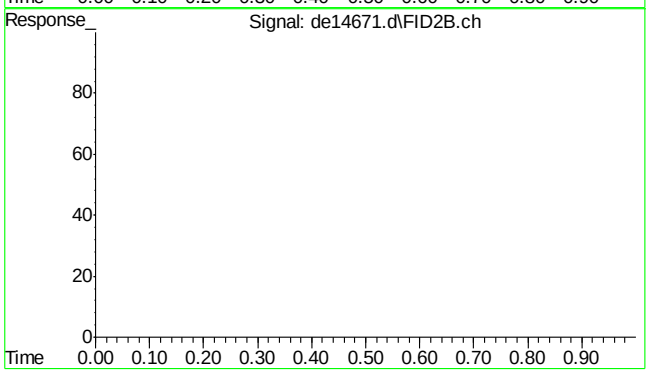



SGS ACCUTEST MC46487




#44 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.




#45 bht

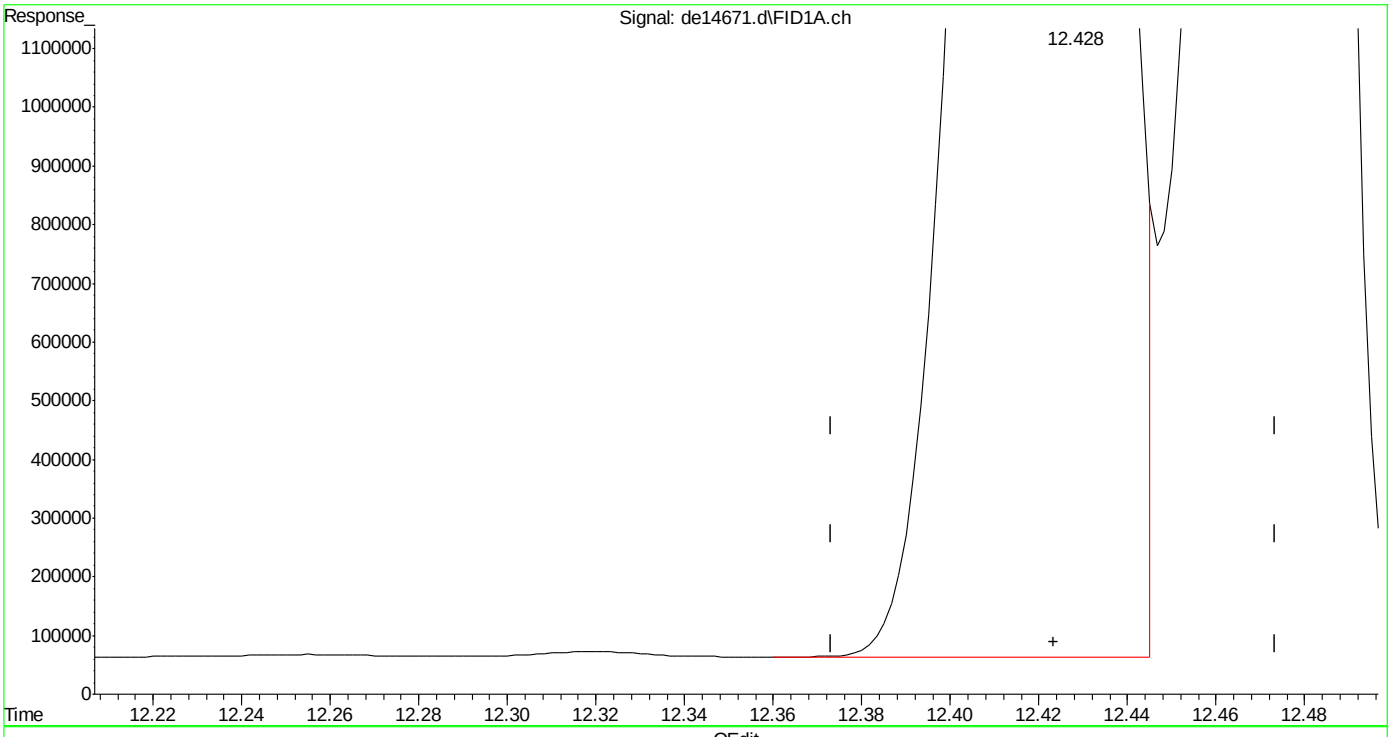
R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : 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

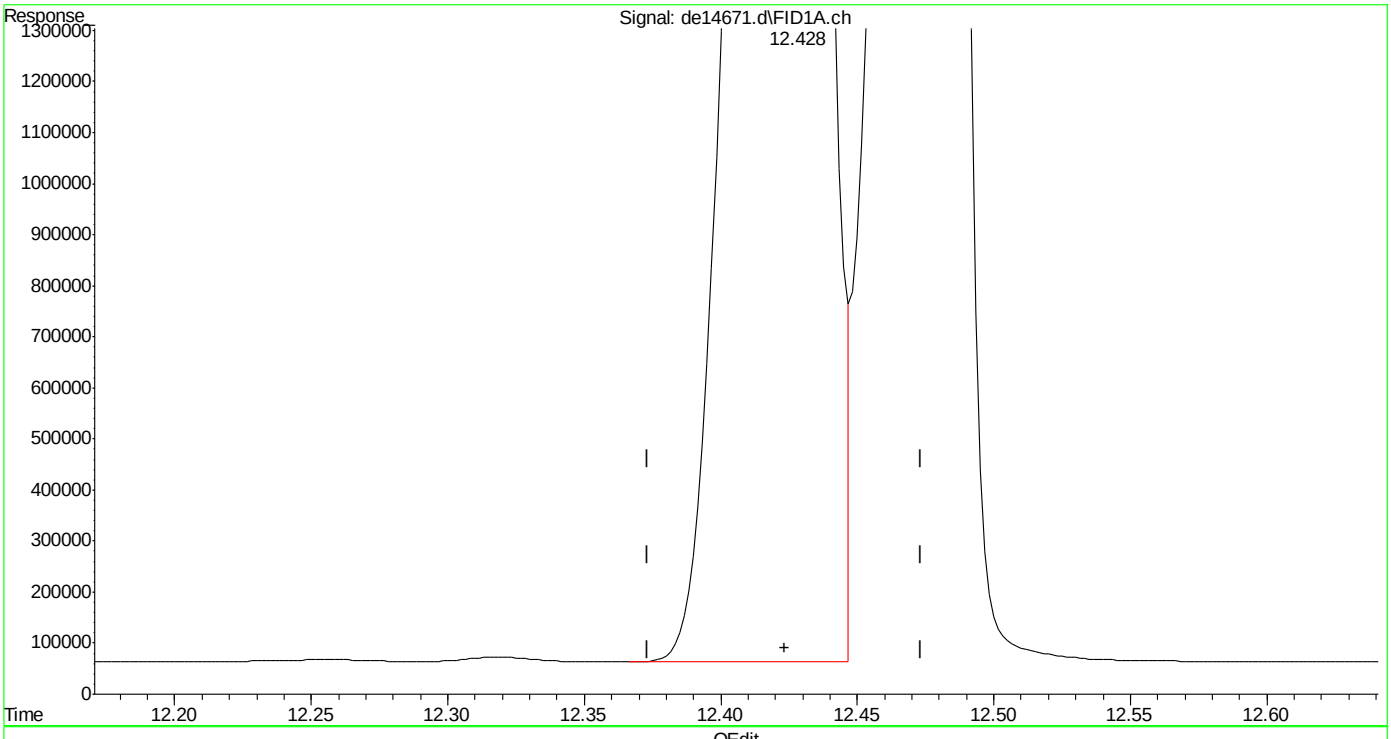
EPH160622W.M Thu Jun 23 07:56:54 2016 Page: 1

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



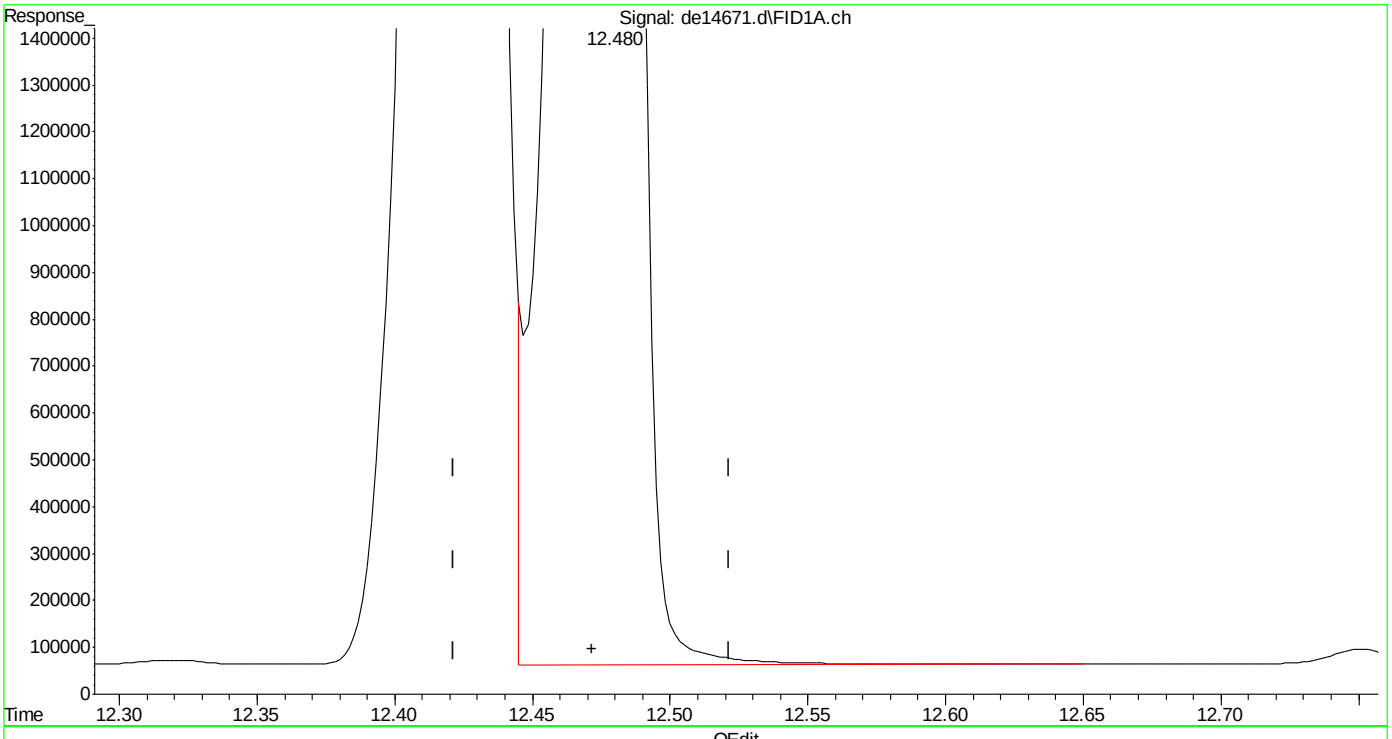
SGS ACCUTEST MC46487

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





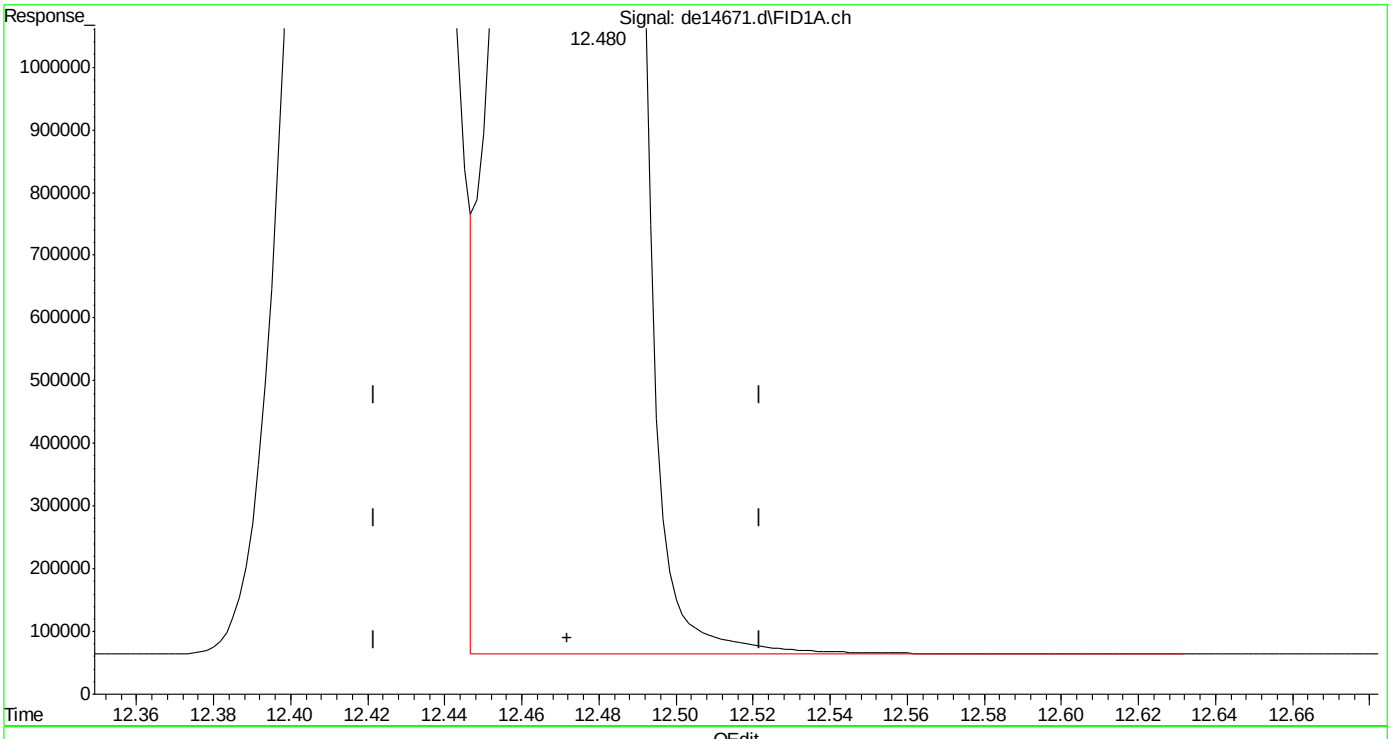
SGS ACCUTEST MC46487

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

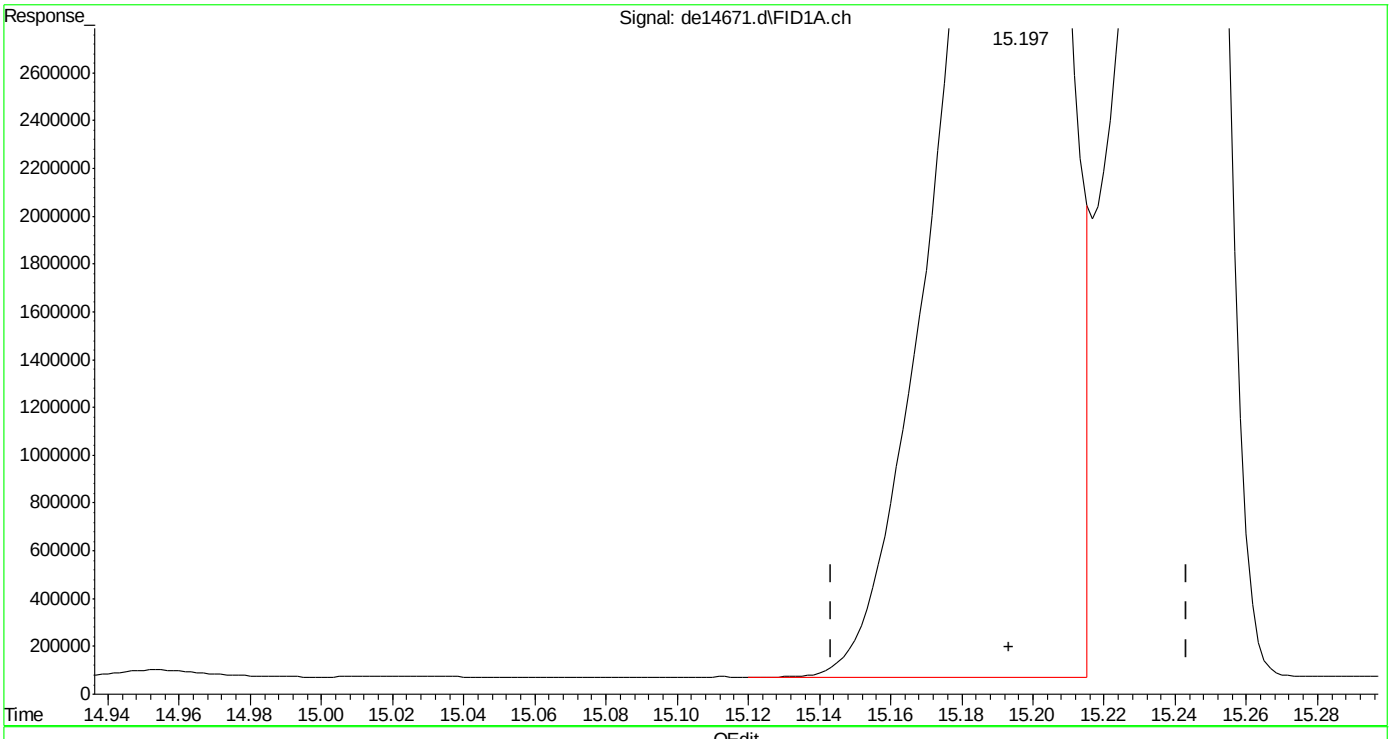
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 07:57:39 2016

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

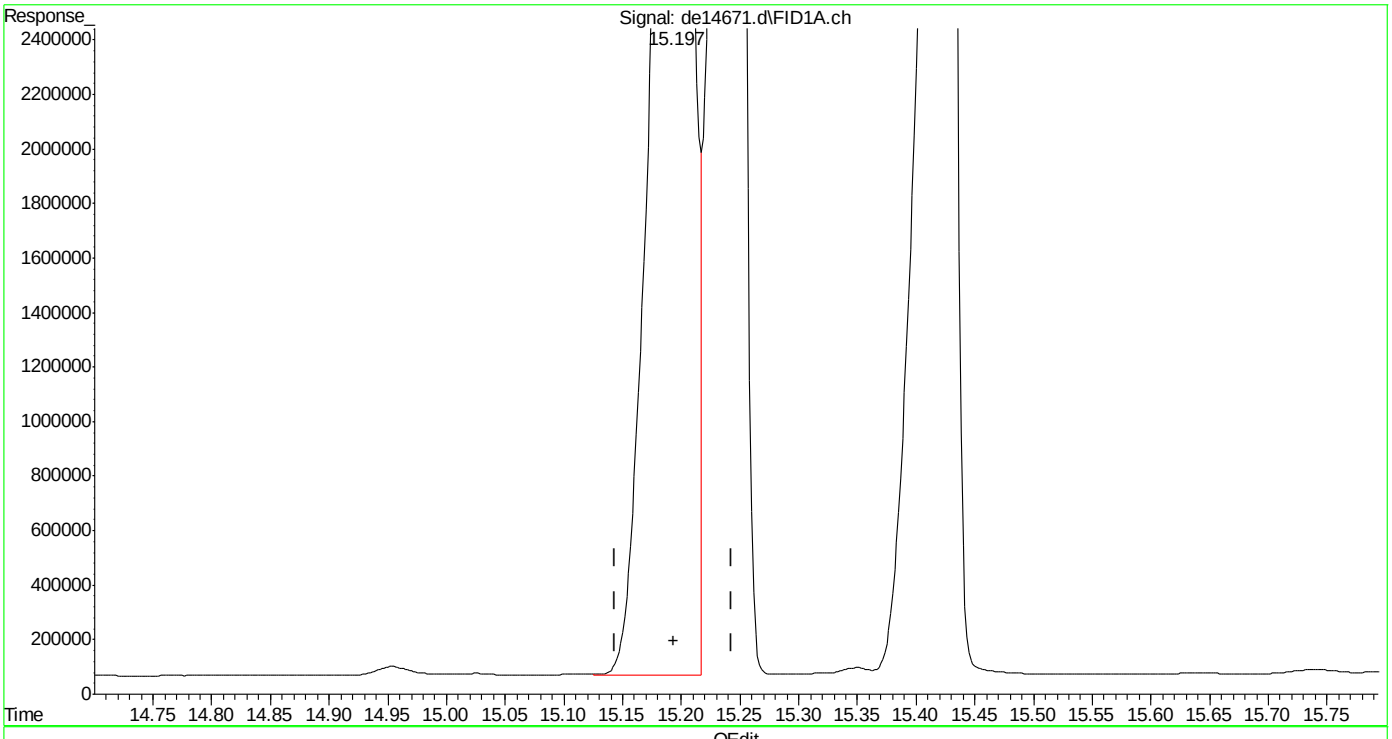
(+) = Expected Retention Time

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





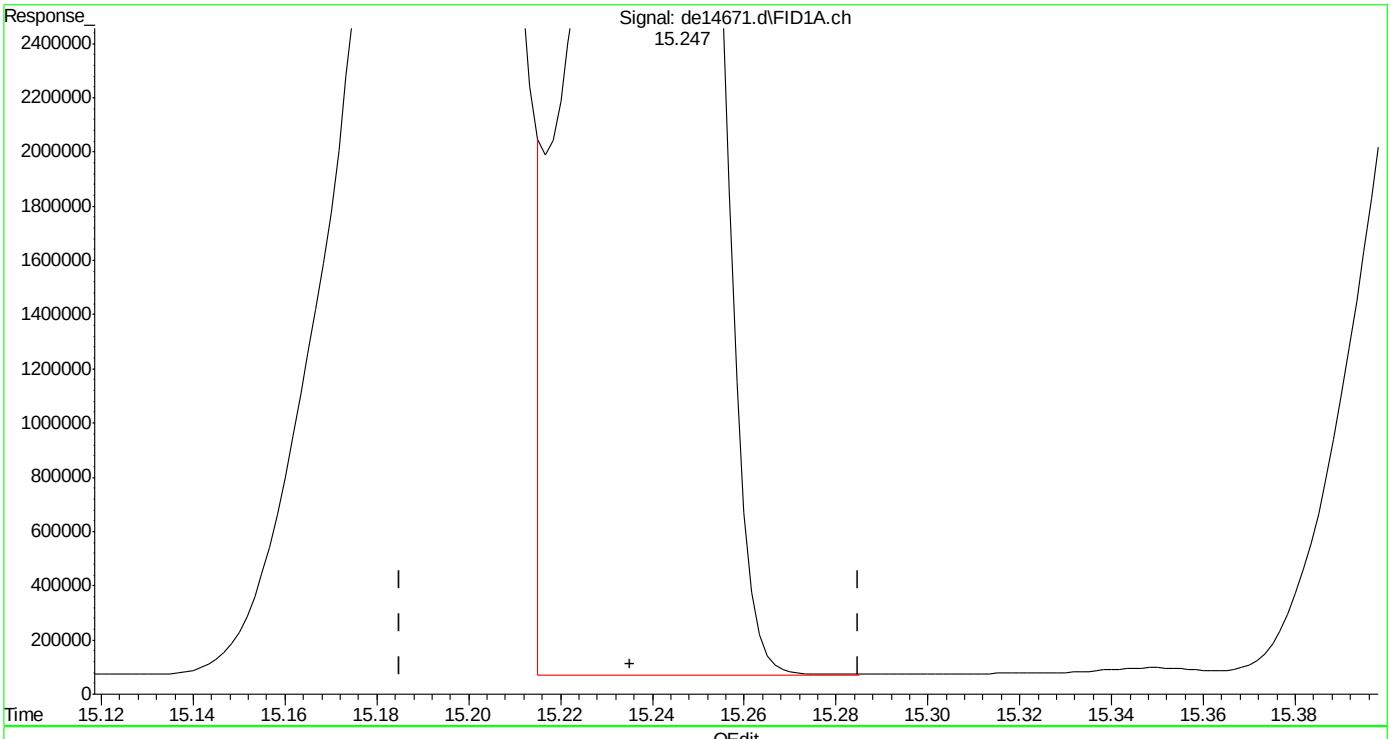
SGS ACCUTEST MC46487

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

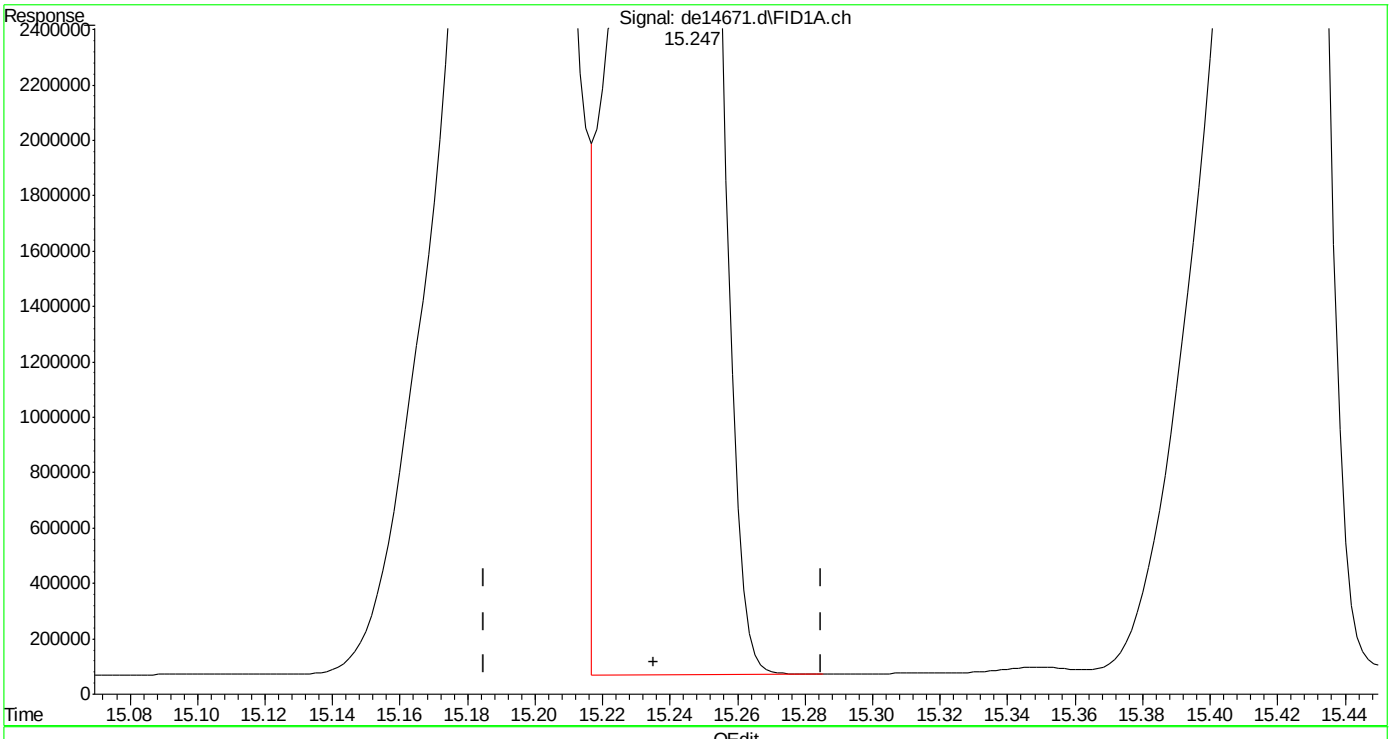
EPH160622W.M Thu Jun 23 07:58:05 2016

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



SGS ACCUTEST MC46487

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



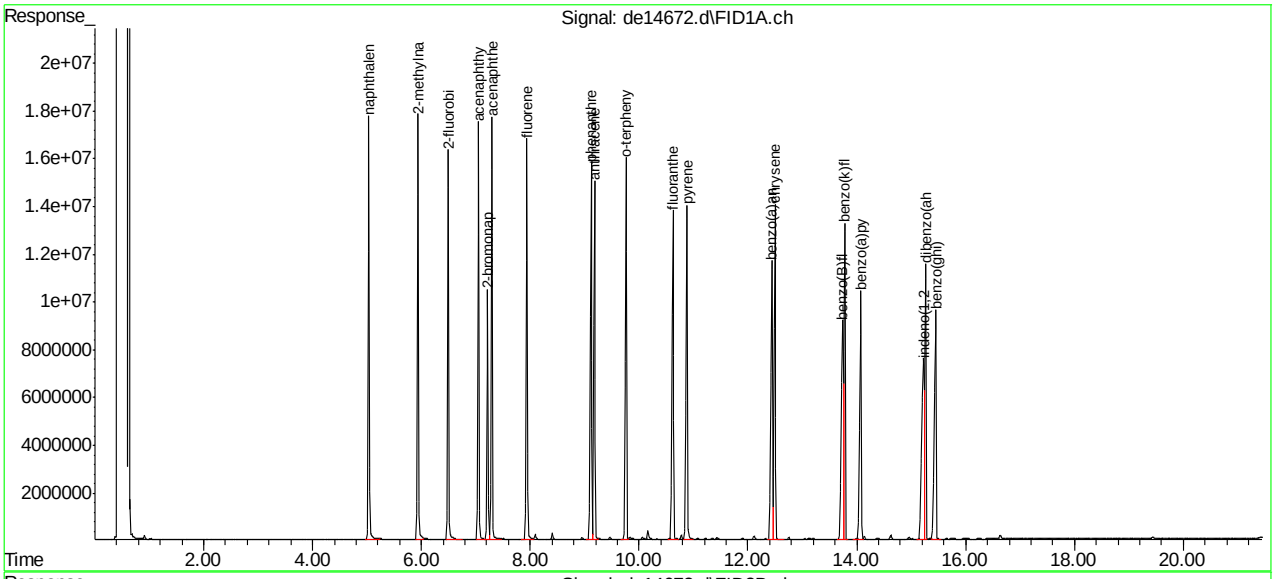
SGS ACCUTEST MC46487

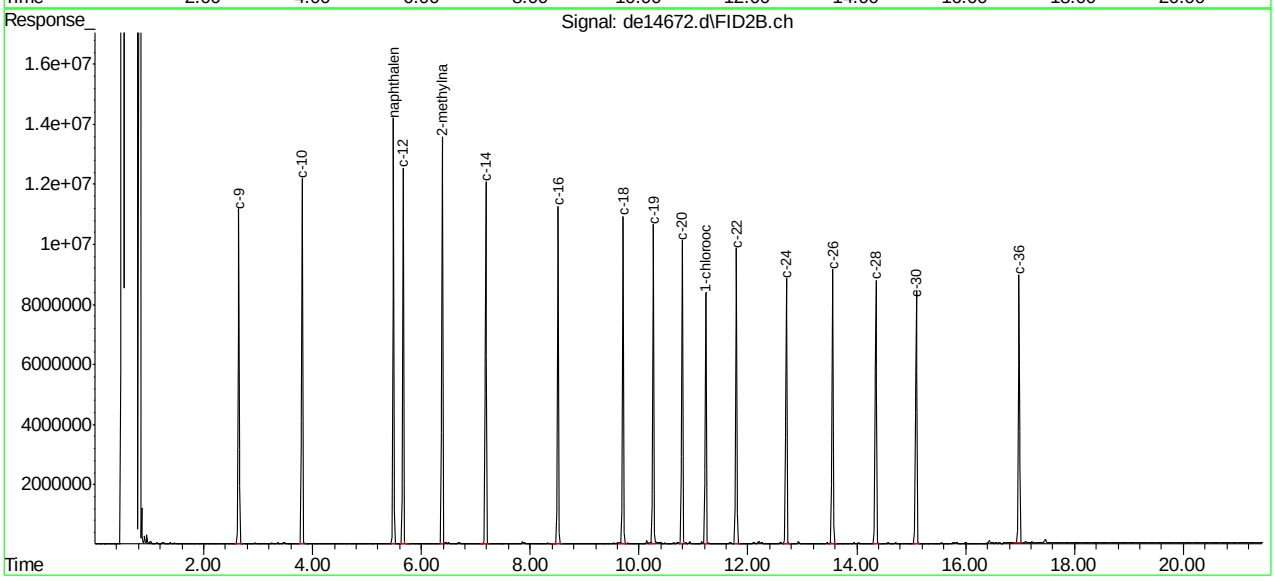
Quantitation Report (QT Reviewed)

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 :



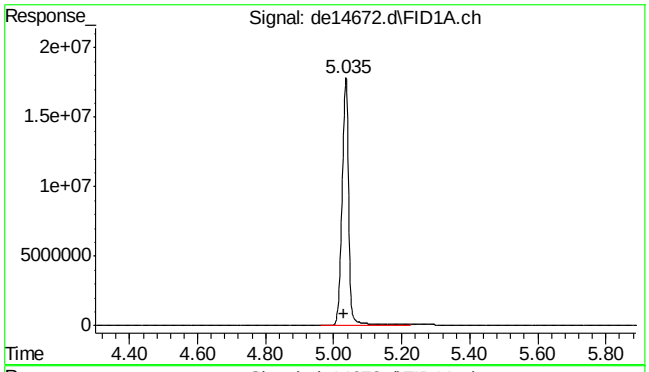







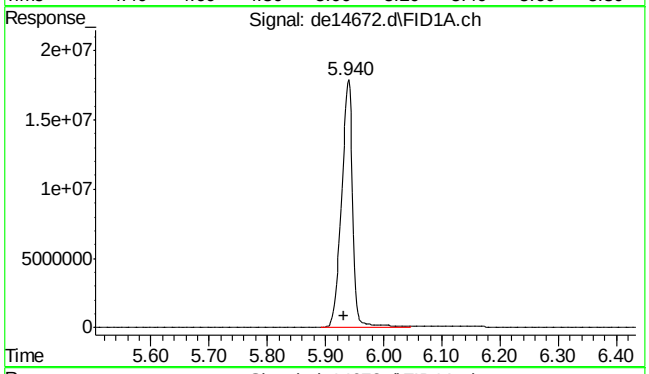



SGS ACCUTEST MC46487



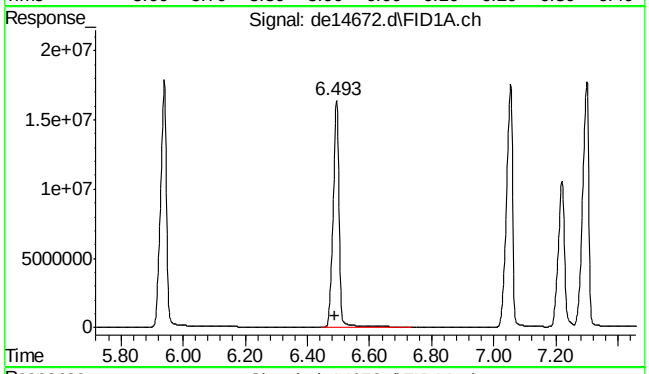

#2 naphthalene

R.T.: 5.035 min
Delta R.T.: 0.005 min
Response: 23929928
Conc: 195.61 µg/ml



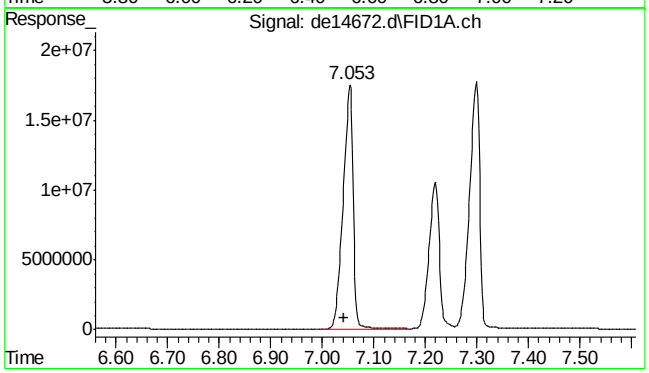

#3 2-methylnaphthalene

R.T.: 5.940 min
Delta R.T.: 0.008 min
Response: 23749913
Conc: 193.33 µg/ml



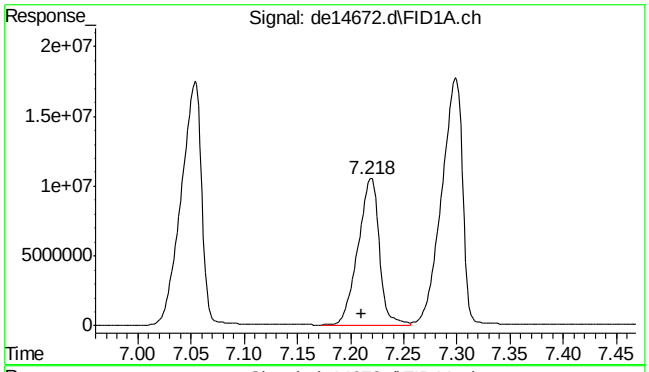

#4 2-fluorobiphenyl

R.T.: 6.493 min
Delta R.T.: 0.005 min
Response: 21568821
Conc: 193.73 µg/ml



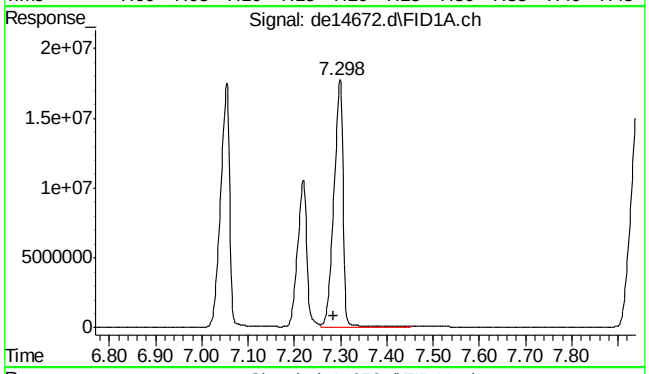

#5 acenaphthylene

R.T.: 7.053 min
Delta R.T.: 0.012 min
Response: 23550221
Conc: 191.39 µg/ml



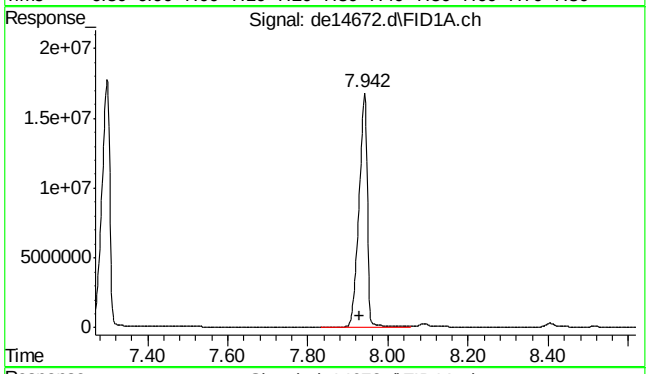

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.008 min
Response: 14717575
Conc: 211.59 µg/ml



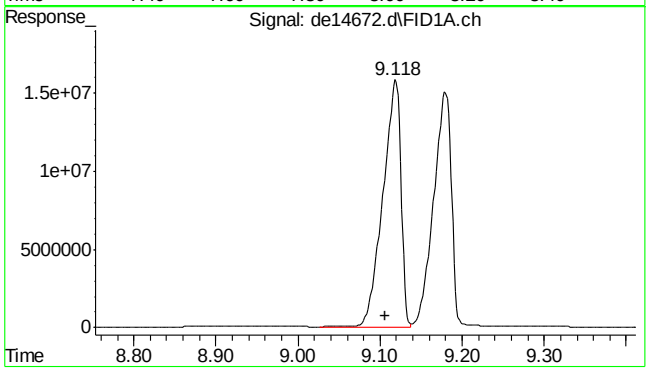

#7 acenaphthene

R.T.: 7.298 min
Delta R.T.: 0.013 min
Response: 24636559
Conc: 181.84 µg/ml



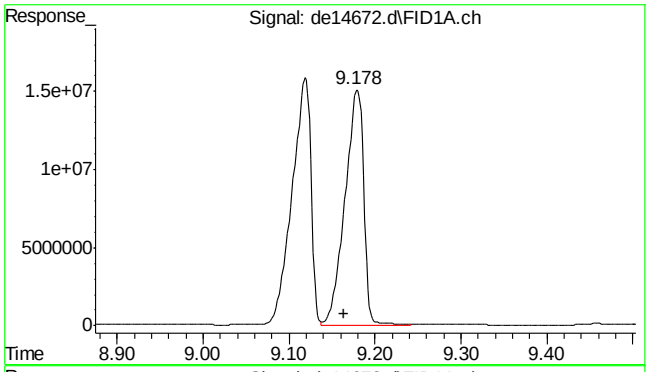

#8 fluorene

R.T.: 7.942 min
Delta R.T.: 0.013 min
Response: 24085117
Conc: 193.03 µg/ml



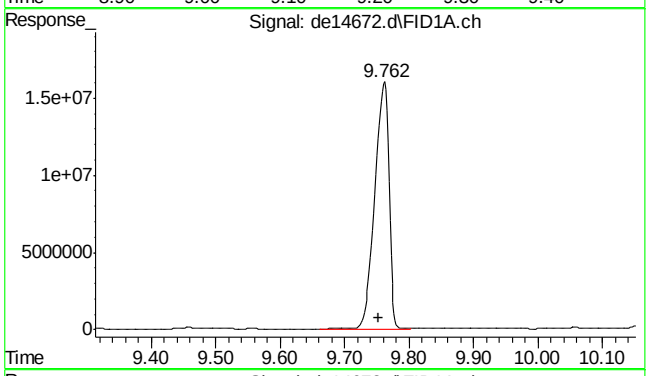

#9 phenanthrene

R.T.: 9.118 min
Delta R.T.: 0.012 min
Response: 24106717
Conc: 198.91 µg/ml



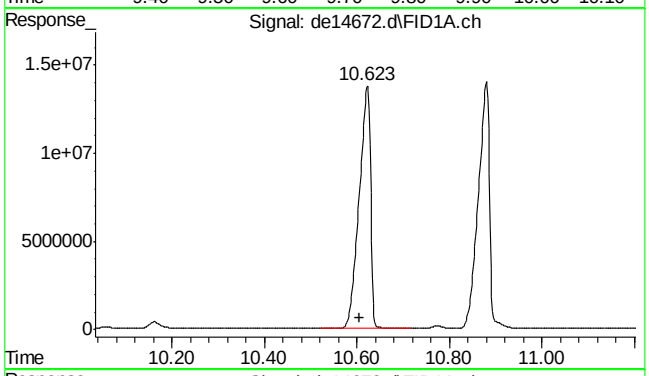

#10 anthracene

R.T.: 9.178 min
Delta R.T.: 0.015 min
Response: 22785902
Conc: 175.85 µg/ml



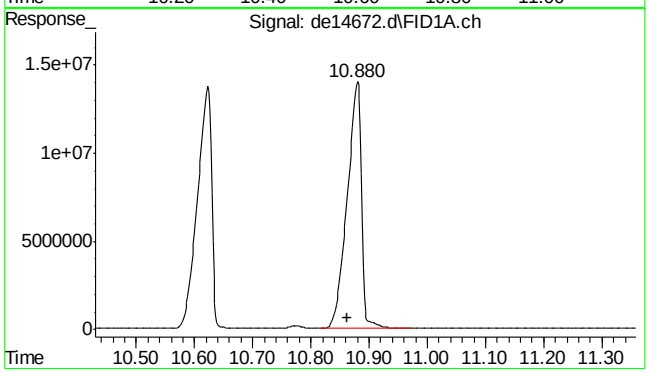

#11 o-terphenyl

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





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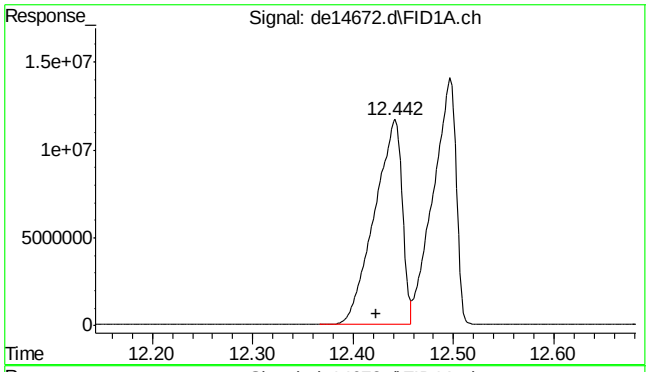
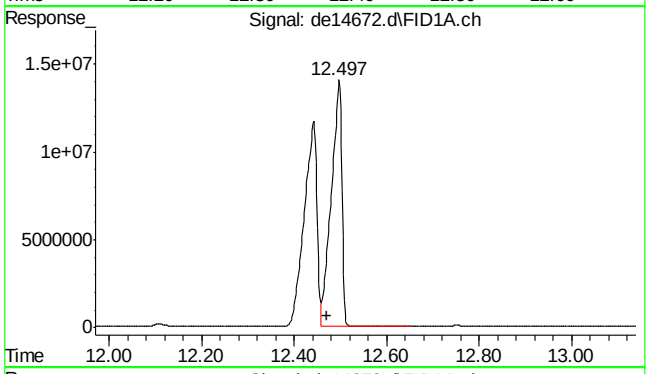


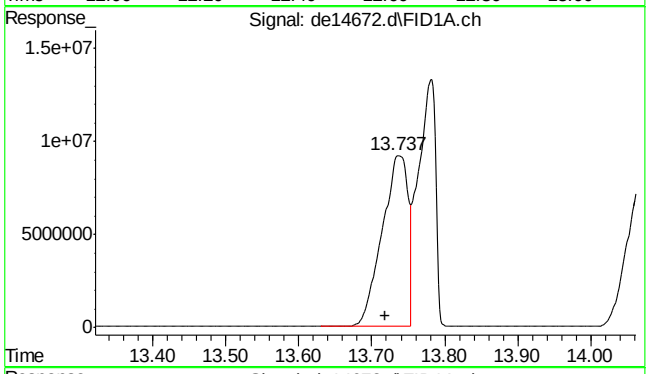

#14 benzo(a)anthracene

R.T.: 12.442 min
Delta R.T.: 0.018 min
Response: 22291957
Conc: 188.39 µg/ml



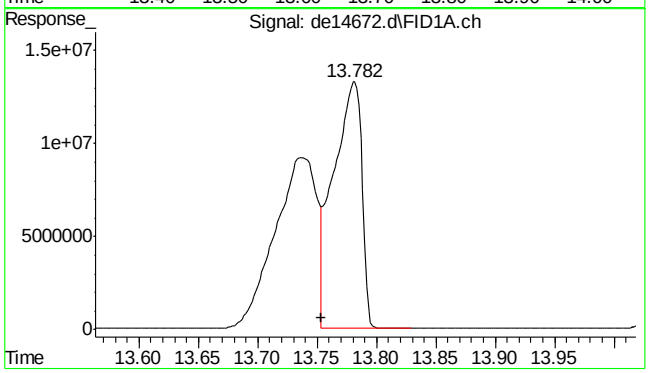

#15 chrysene

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





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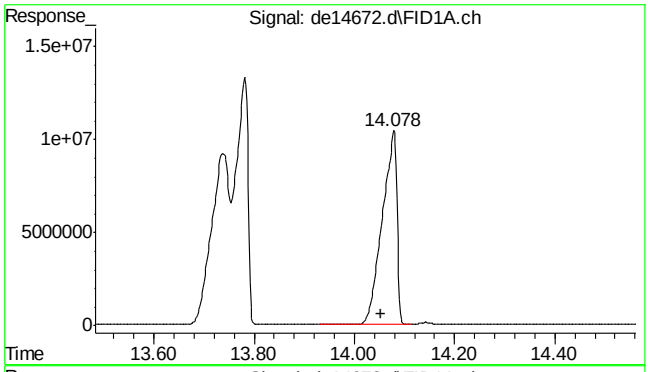
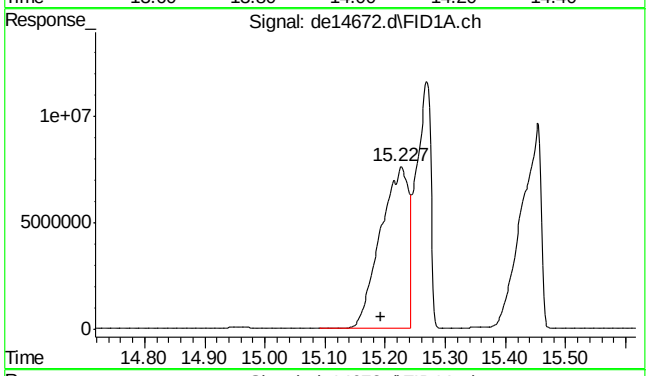


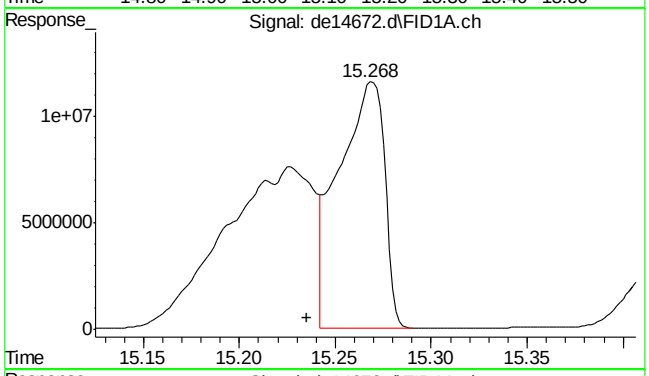

#18 benzo(a)pyrene

R.T.: 14.078 min
Delta R.T.: 0.025 min
Response: 21269399
Conc: 184.73 µg/ml



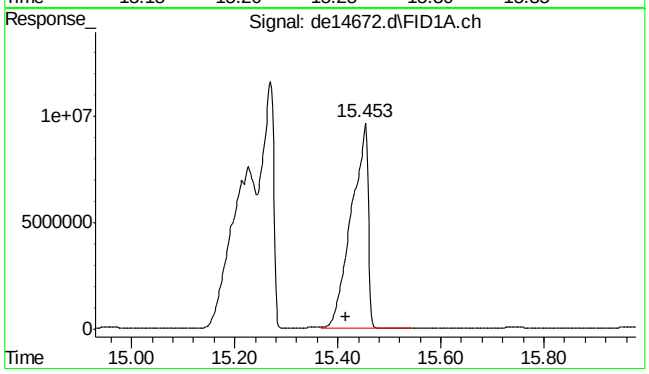

#19 indeno(1,2,3-cd)pyrene

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



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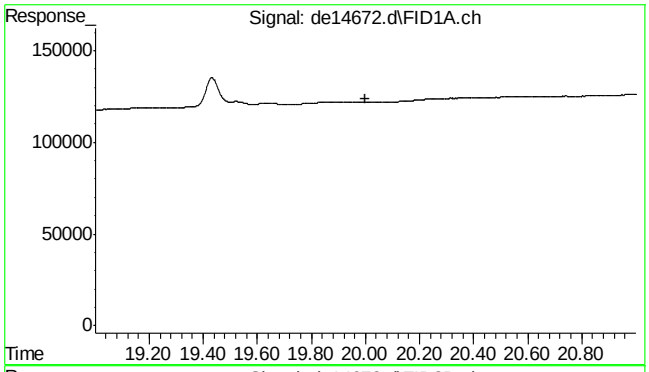
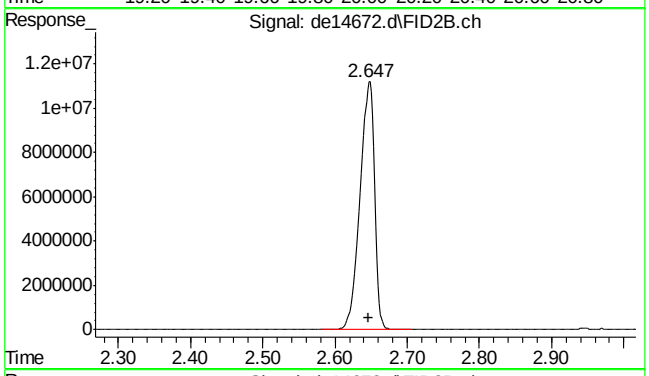


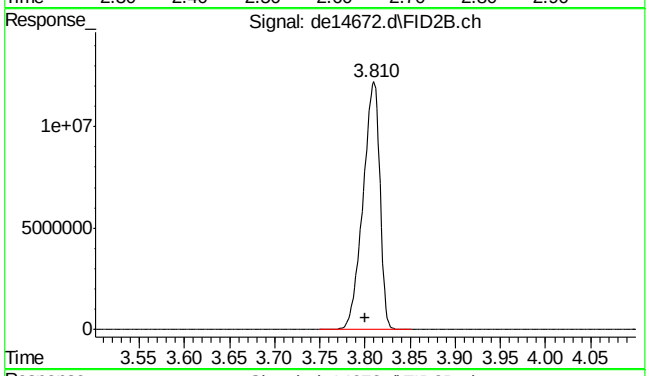

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



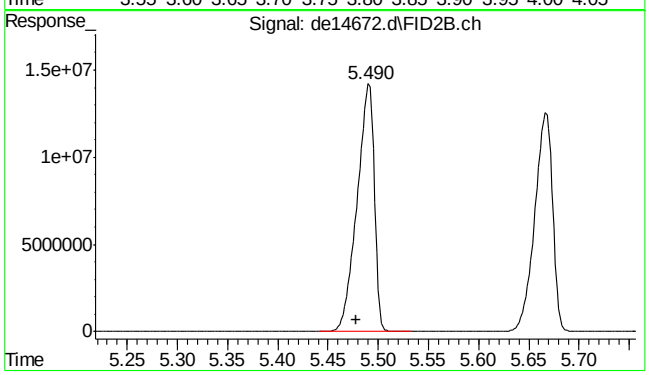

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 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



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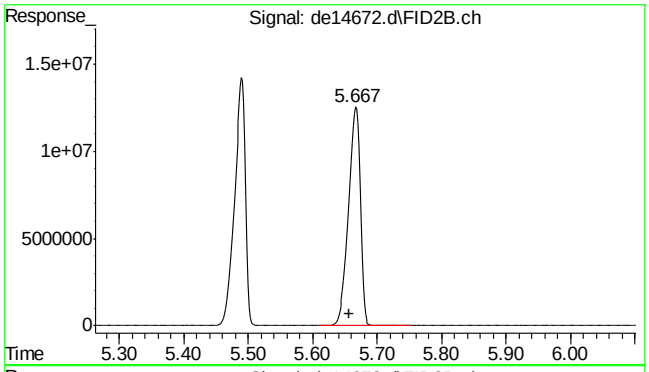
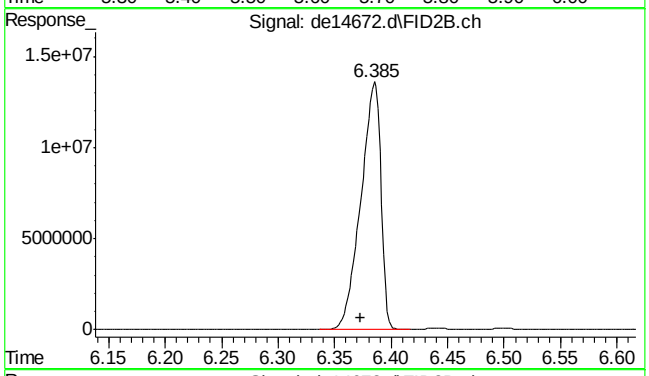


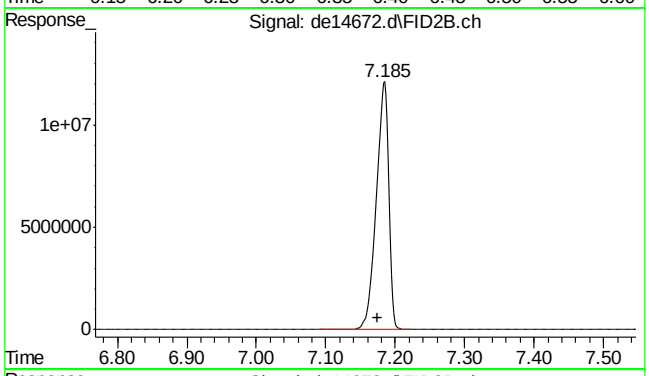

#28 c-12

R.T.: 5.667 min
Delta R.T.: 0.010 min
Response: 15551710
Conc: 185.95 µg/ml



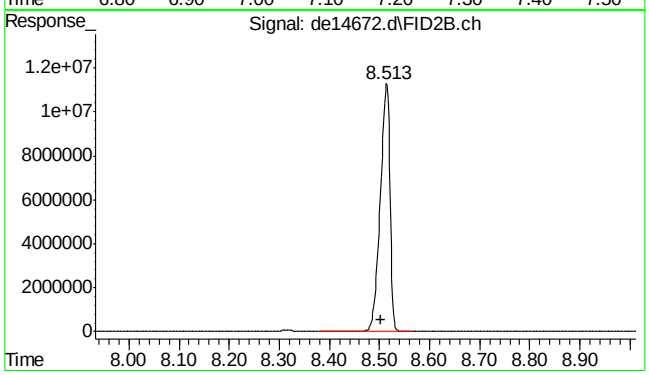

#29 2-methylnaphthalene #2

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

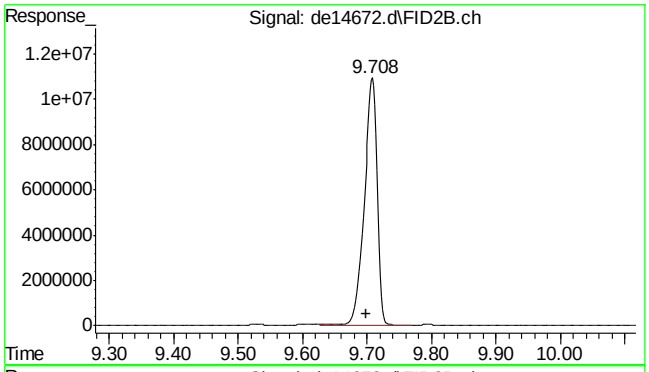
R.T.: 8.513 min
Delta R.T.: 0.010 min
Response: 15150013
Conc: 180.33 µg/ml

9.4.7

9

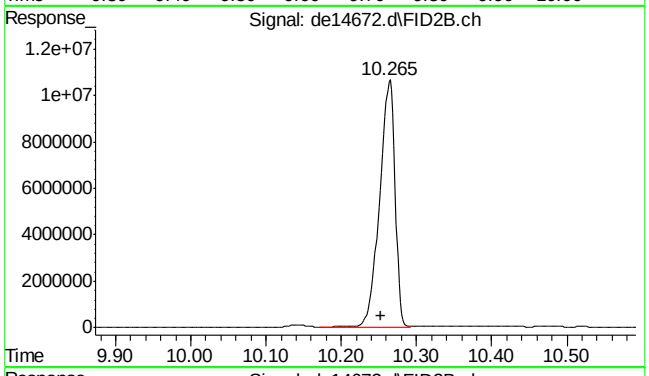


SGS ACCUTEST MC46487



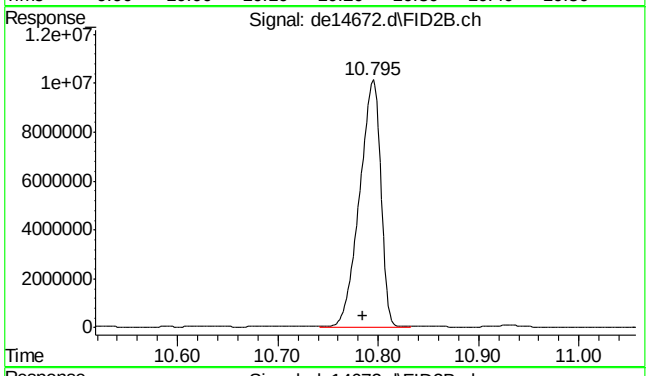

#32 c-18

R.T.: 9.708 min
Delta R.T.: 0.010 min
Response: 15122313
Conc: 183.09 µg/ml



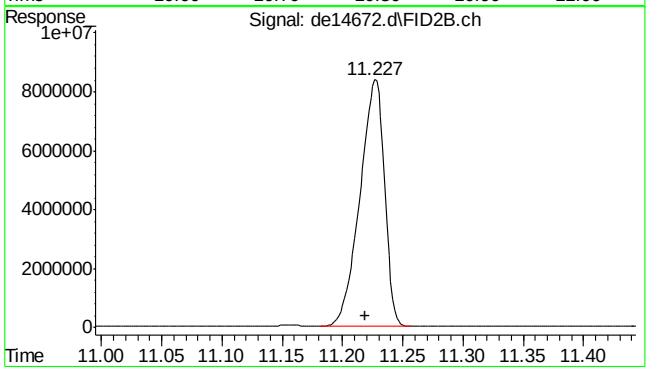

#33 c-19

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



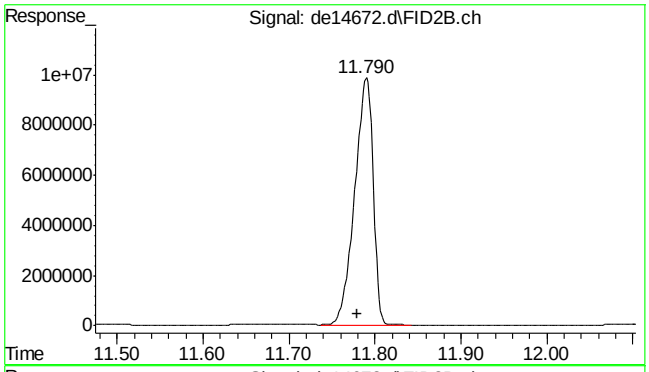

#35 1-chlorooctadecane

R.T.: 11.227 min
Delta R.T.: 0.008 min
Response: 11946306
Conc: 187.63 µg/ml



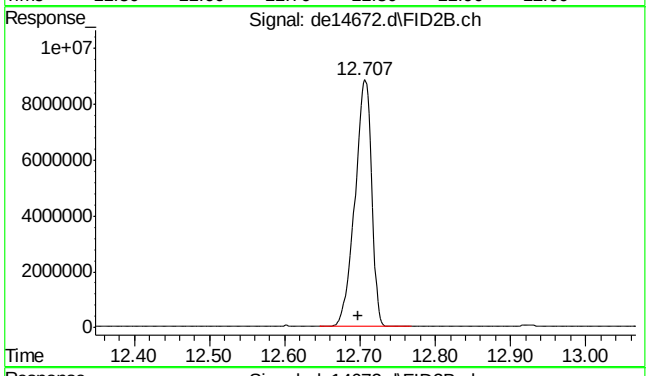


SGS ACCUTEST MC46487



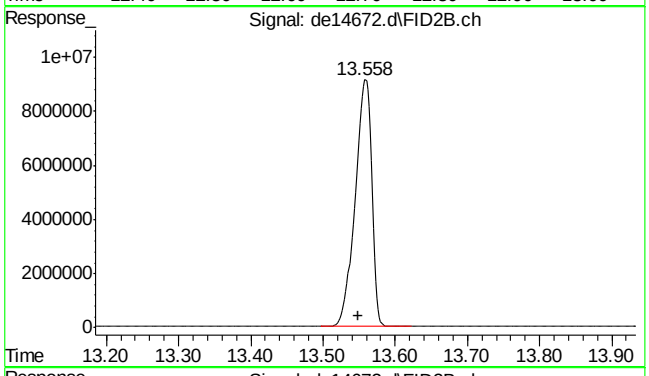

#36 c-22

R.T.: 11.790 min
Delta R.T.: 0.010 min
Response: 14630809
Conc: 185.05 µg/ml



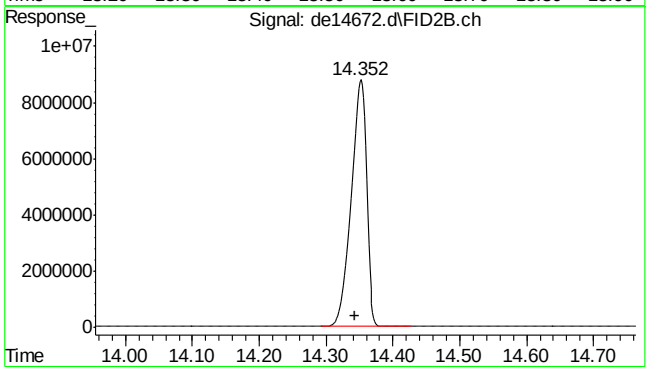

#37 c-24

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



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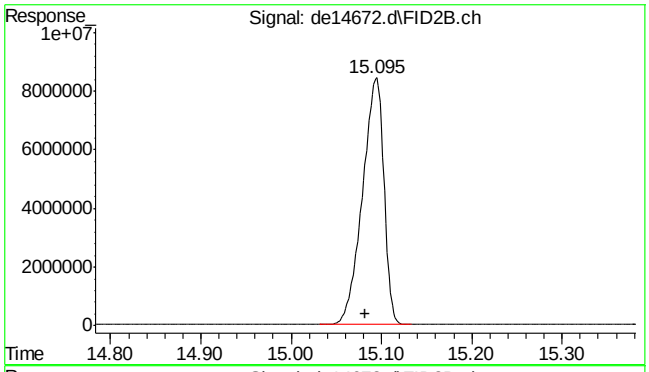
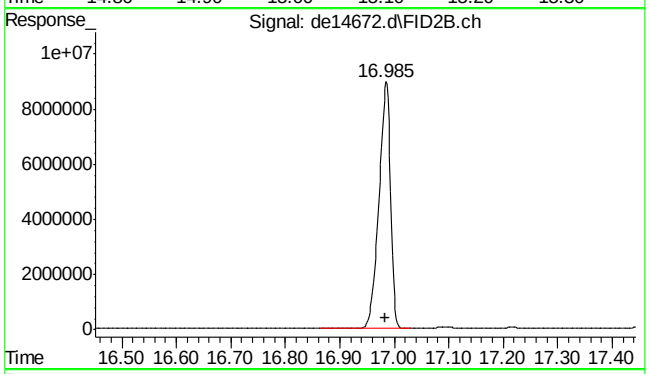


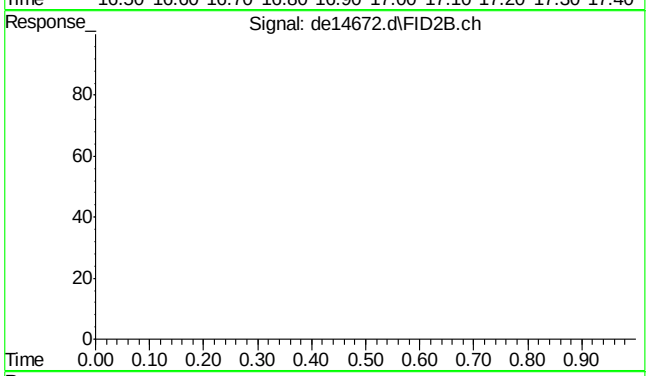

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 13936754
Conc: 172.56 µg/ml



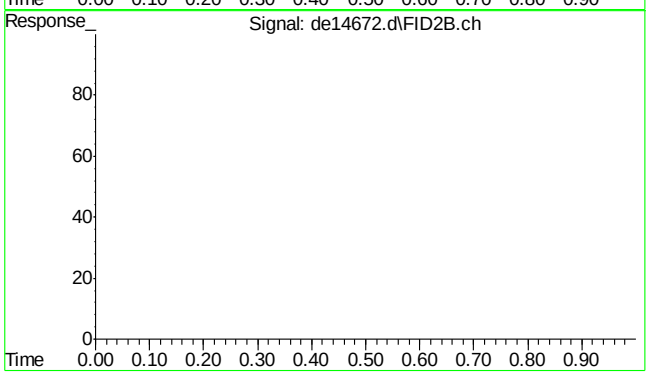

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 13213232
Conc: 196.25 µg/ml m



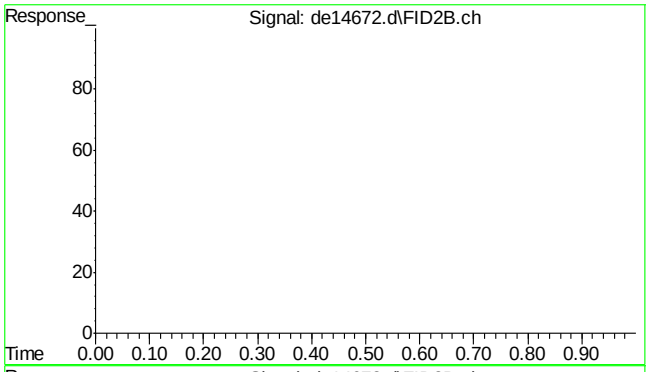

#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



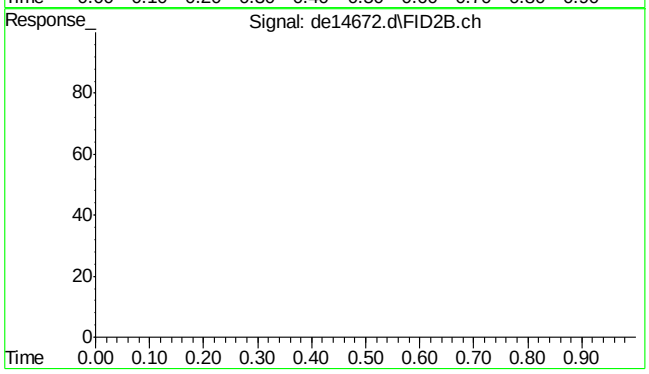

#43 bht

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



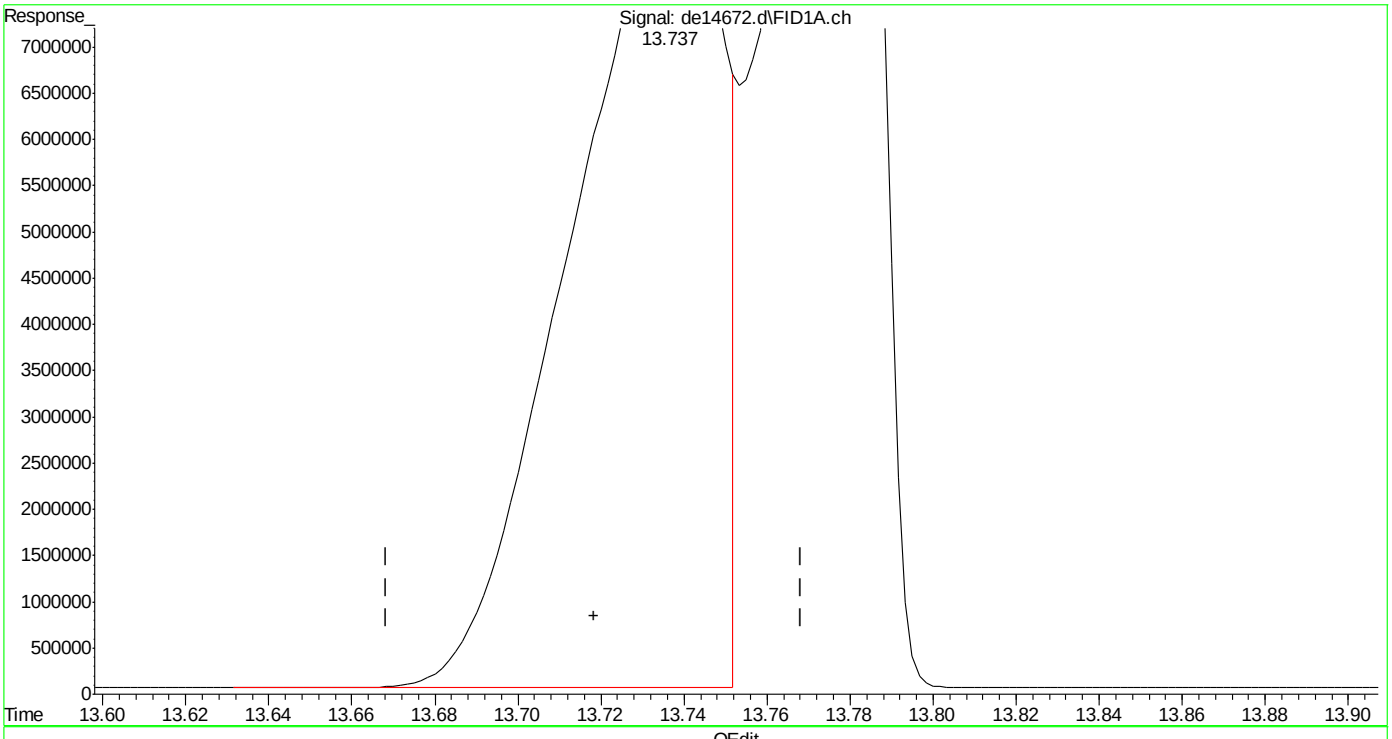
SGS ACCUTEST MC46487

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





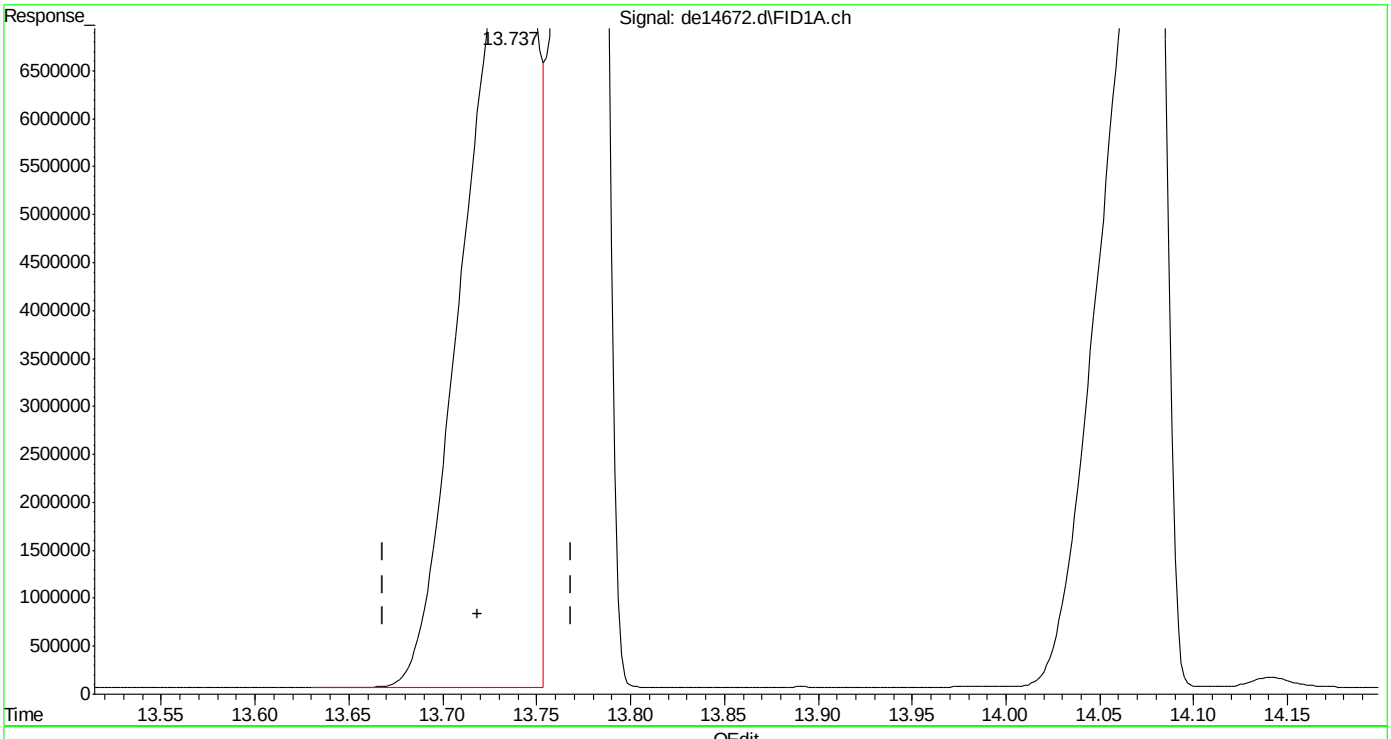
SGS ACCUTEST MC46487

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
EPH160622W.M Thu Jun 23 07:59:27 2016





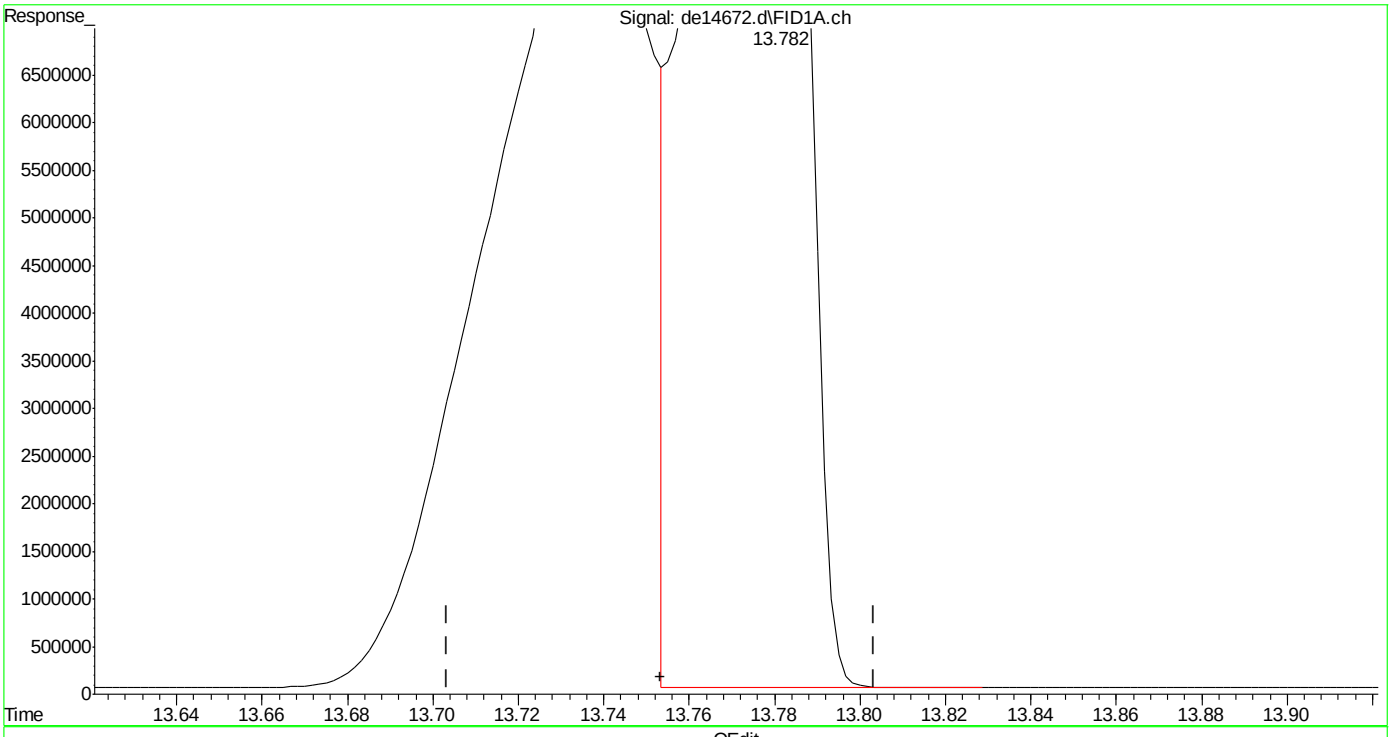
SGS ACCUTEST MC46487

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

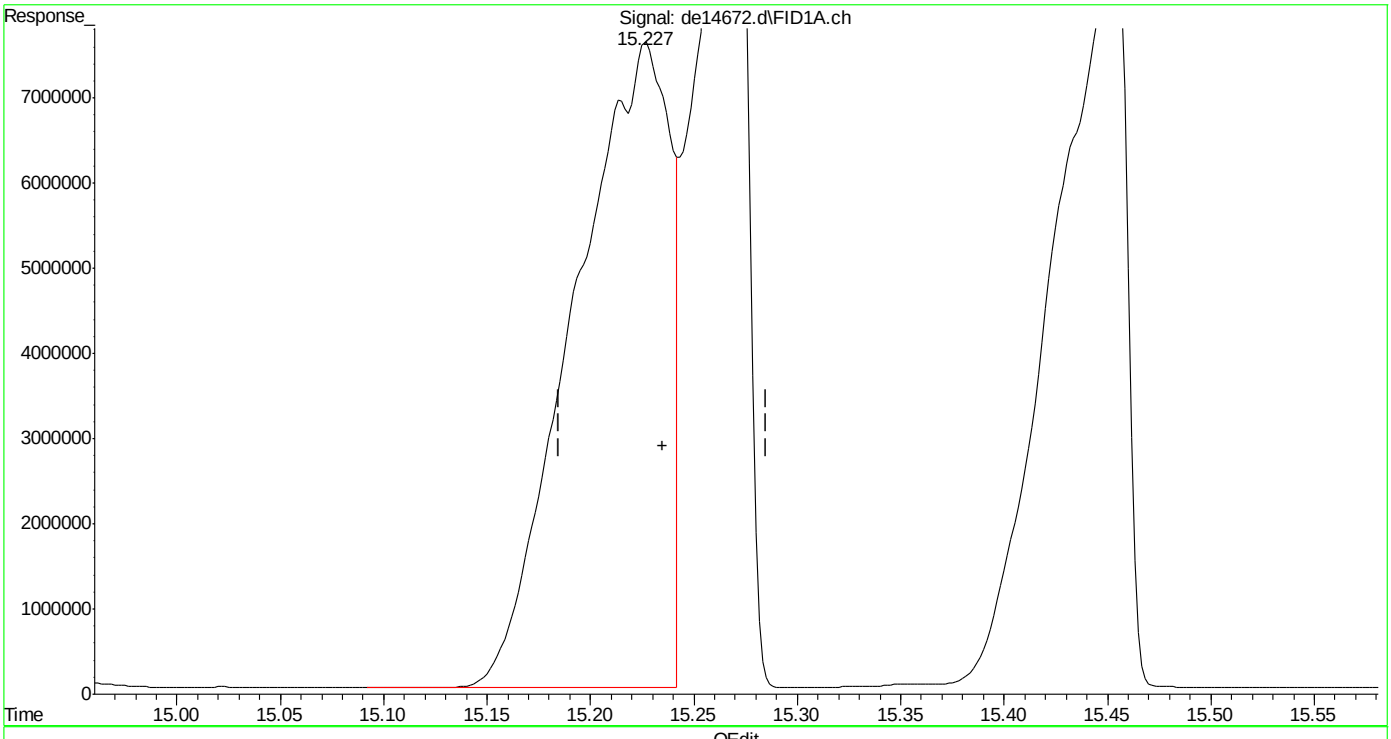
(+) = Expected Retention Time

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



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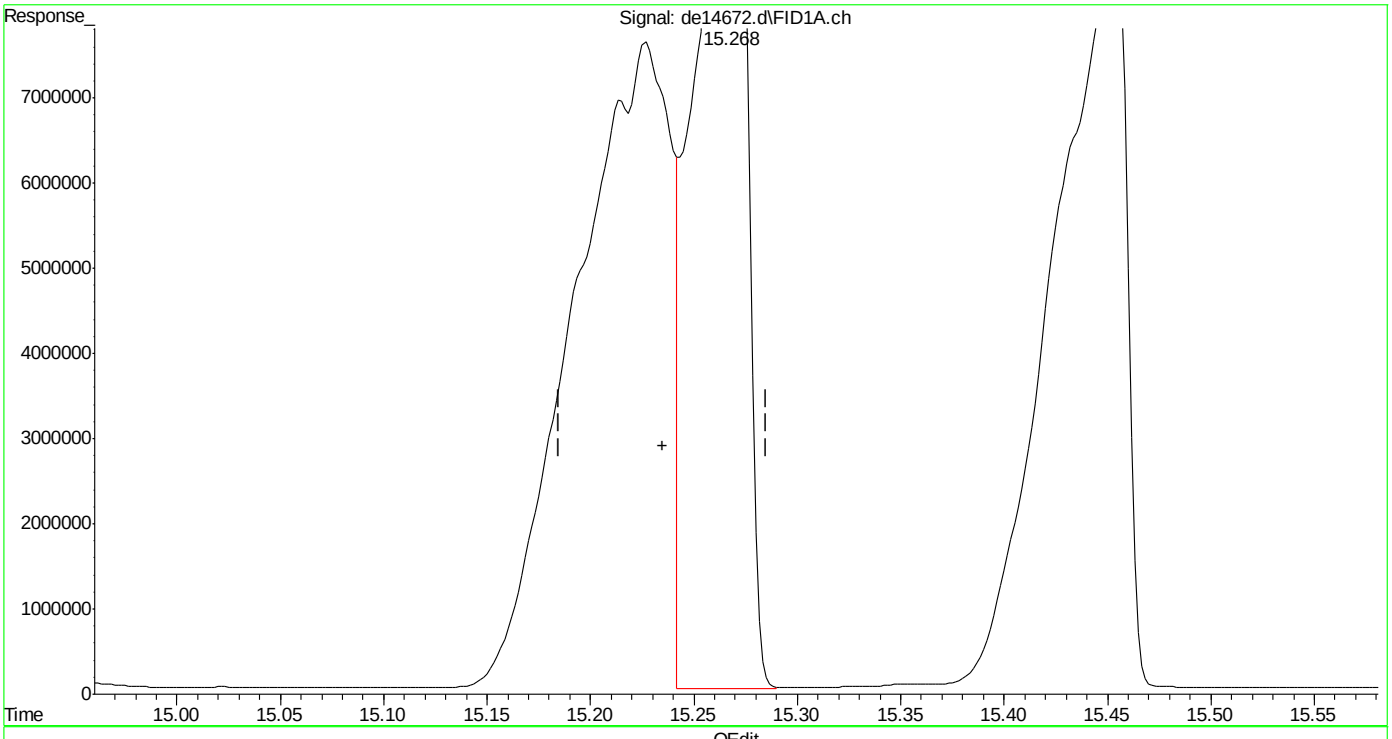
Quantitation Report (Qedit)

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



SGS ACCUTEST MC46487

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 |

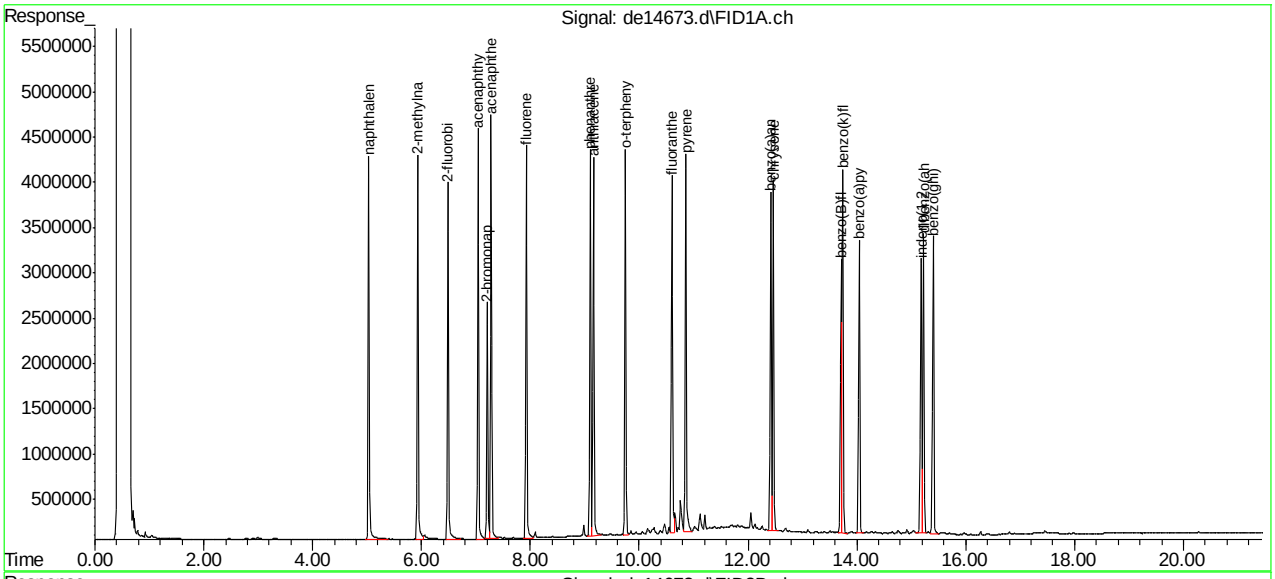
(f)=RT Delta > 1/2 Window (m)=manual int.

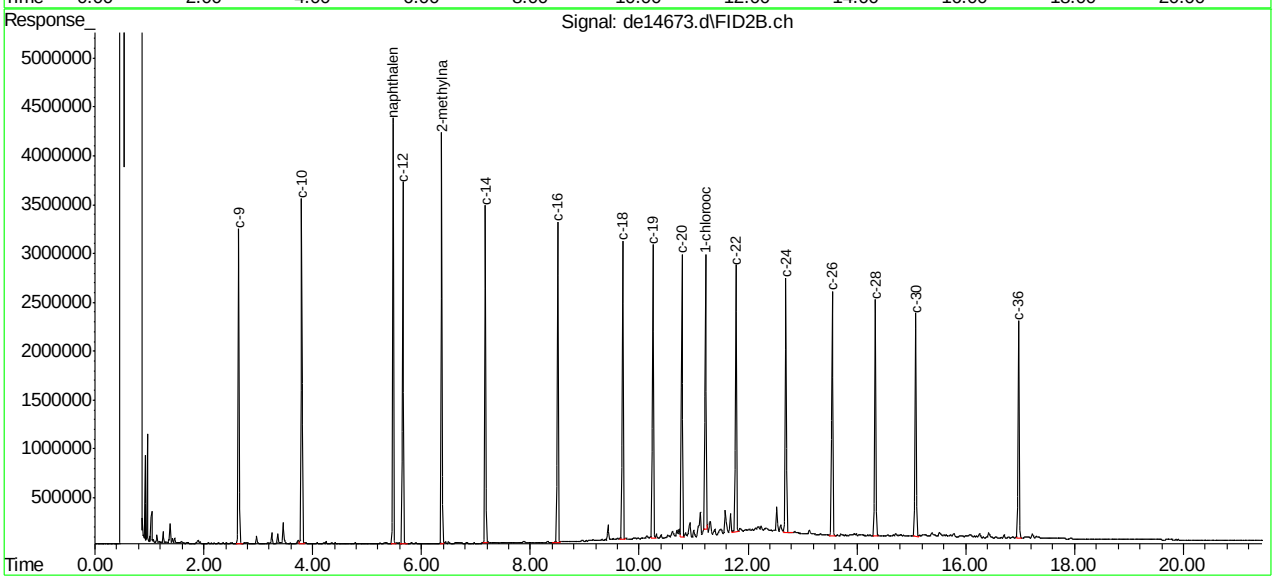
Quantitation Report (QT Reviewed)

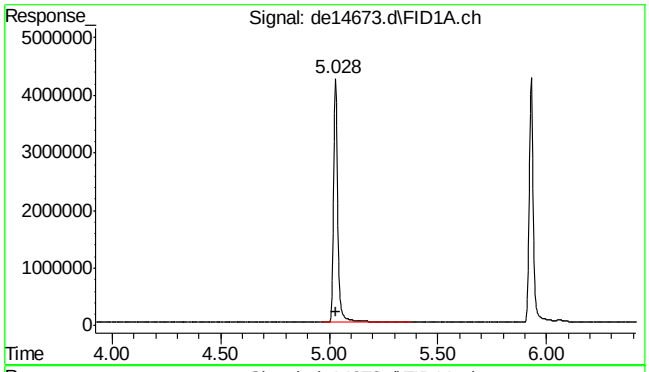
Data Path : C:\msdchem\1\DATA\DE160622EPH\
Data File : de14673.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 22 Jun 2016 9:32 pm
Operator : thomasa
Sample : icv815-50
Misc : op47862,gde815,1000,,,2,,w
ALS Vial : 116 Sample Multiplier: 1

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 :

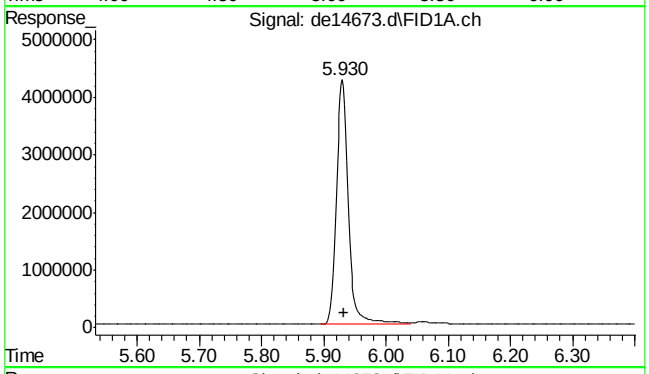




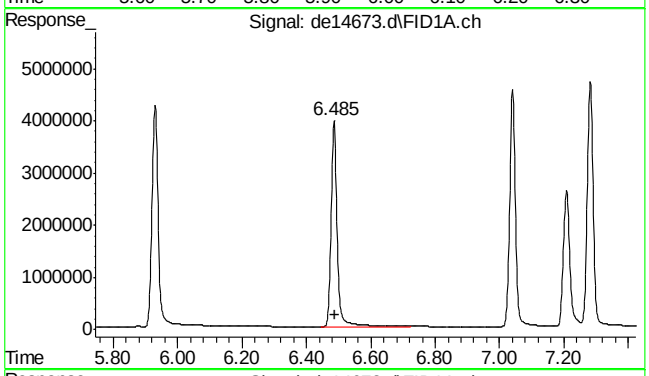

#2 naphthalene

R.T.: 5.028 min
Delta R.T.: -0.002 min
Response: 5919992
Conc: 47.16 µg/ml



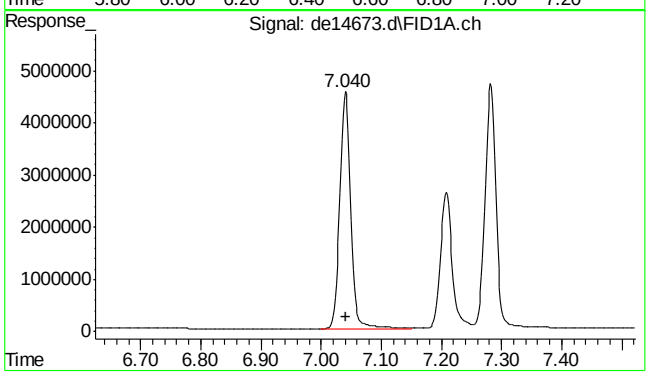

#3 2-methylnaphthalene

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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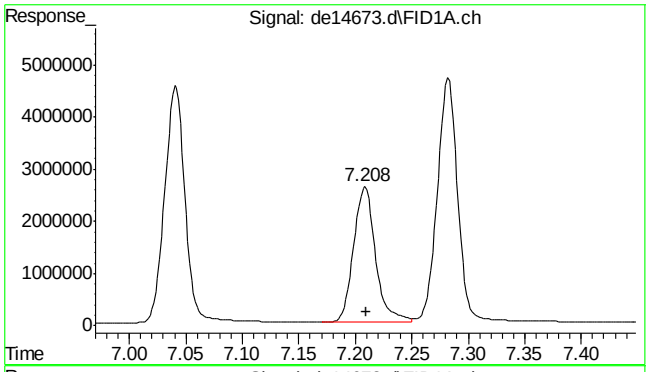
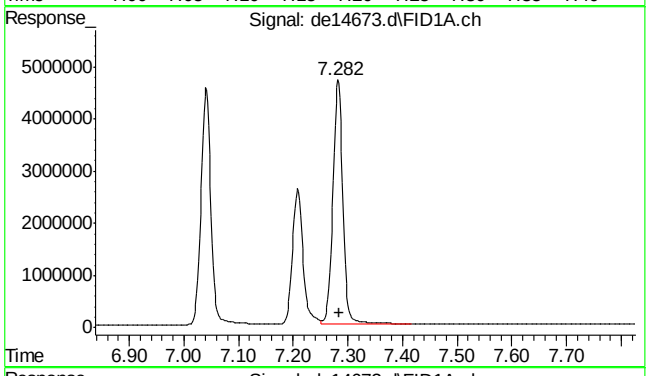


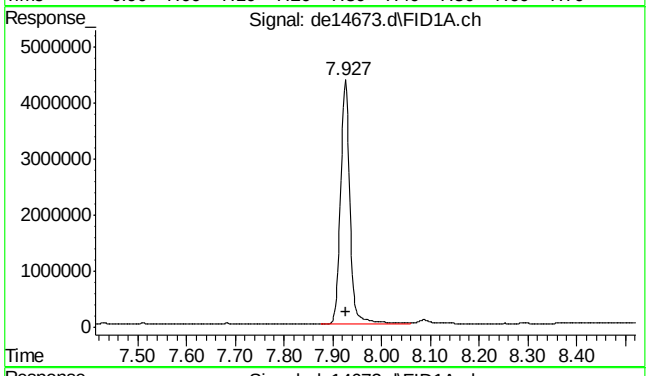

#6 2-bromonaphthalene

R.T.: 7.208 min
Delta R.T.: -0.002 min
Response: 3494534
Conc: 48.74 µg/ml



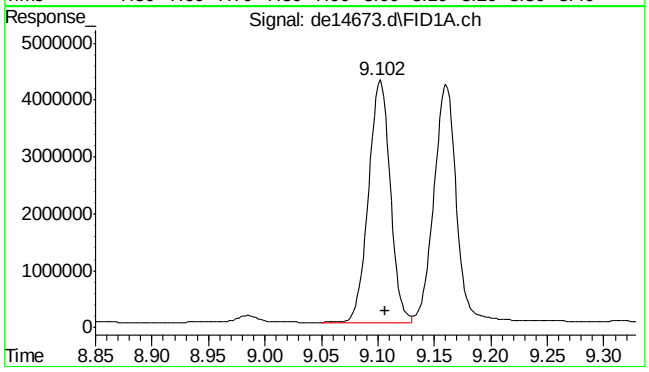

#7 acenaphthene

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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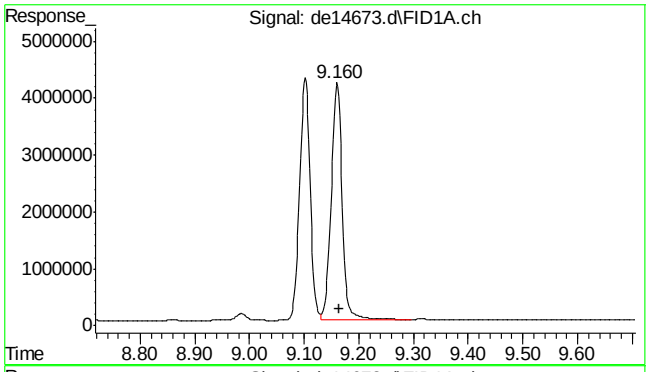
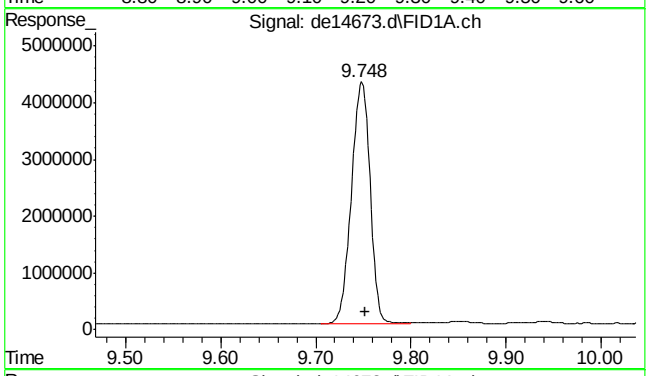


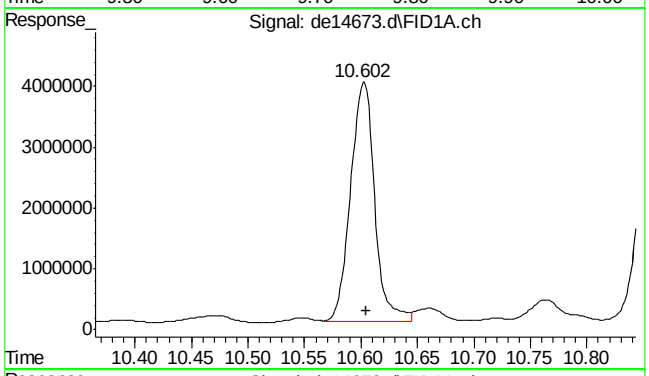

#10 anthracene

R.T.: 9.160 min
Delta R.T.: -0.003 min
Response: 5877713
Conc: 44.18 µg/ml



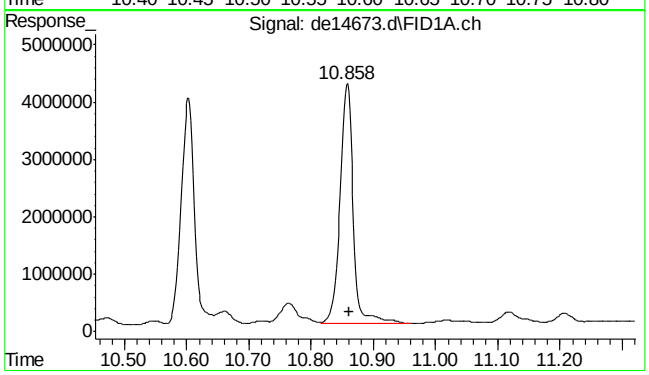

#11 o-terphenyl

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





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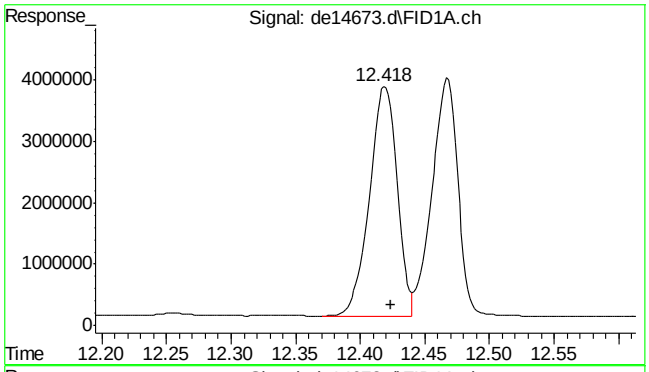
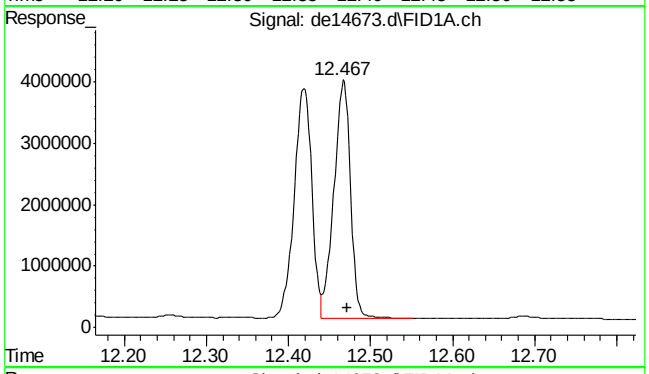


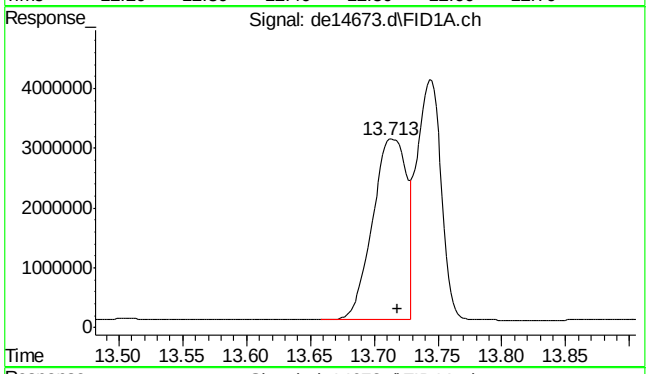

#14 benzo(a)anthracene

R.T.: 12.418 min
Delta R.T.: -0.005 min
Response: 5593098
Conc: 46.04 µg/ml



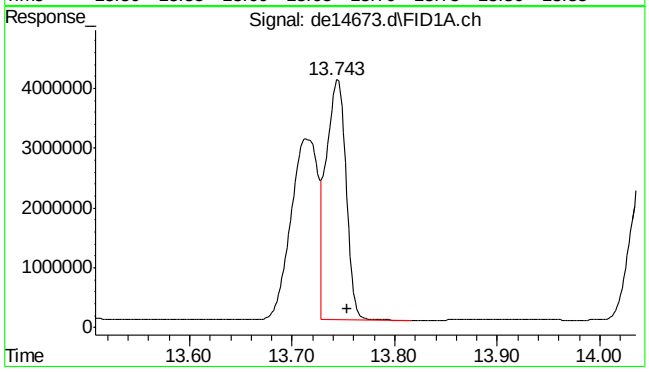

#15 chrysene

R.T.: 12.467 min
Delta R.T.: -0.005 min
Response: 5419101
Conc: 42.45 µg/ml



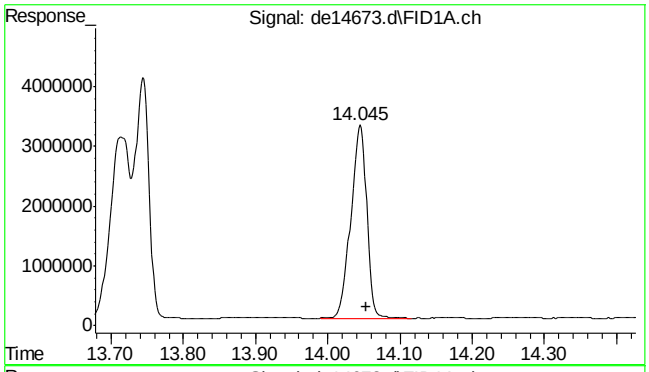

#16 benzo(B)fluoranthene

R.T.: 13.713 min
Delta R.T.: -0.005 min
Response: 5686083
Conc: 48.03 µg/ml m



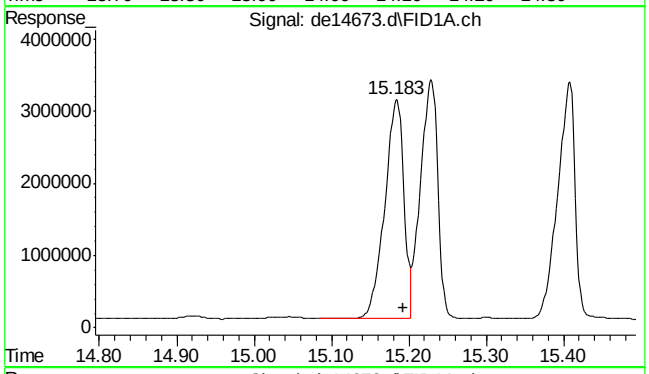

#17 benzo(k)fluoranthene

R.T.: 13.743 min
Delta R.T.: -0.010 min
Response: 5296656
Conc: 41.37 µg/ml m



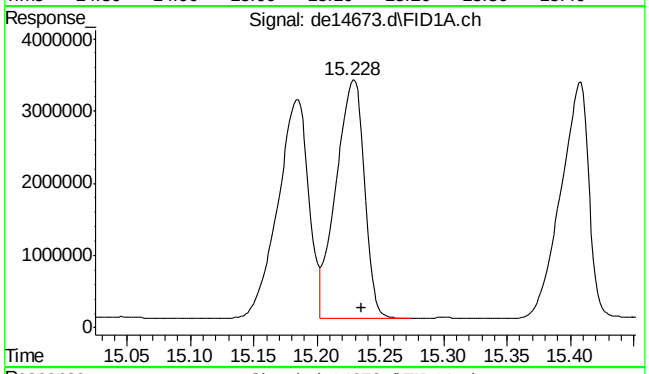

#18 benzo(a)pyrene

R.T.: 14.045 min
Delta R.T.: -0.008 min
Response: 4932114
Conc: 41.81 µg/ml



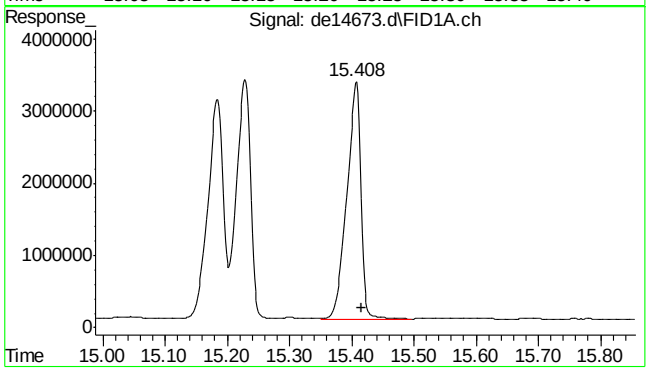

#19 indeno(1,2,3-cd)pyrene

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





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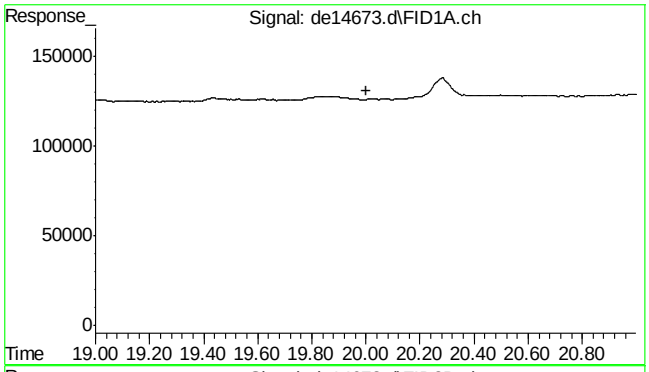
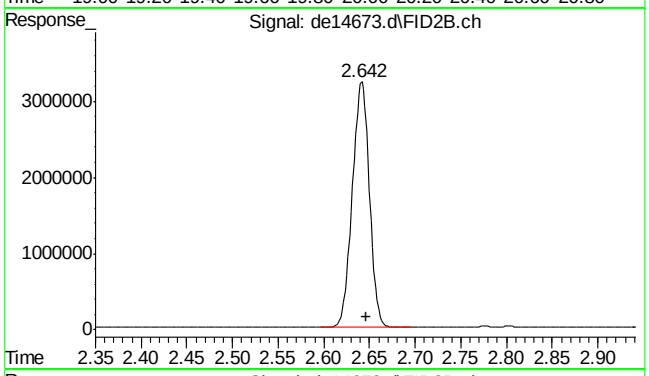


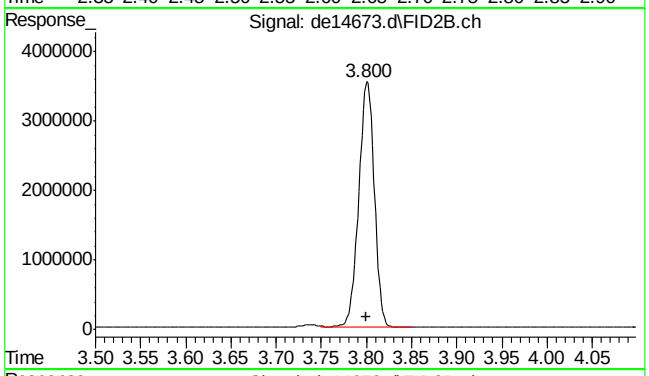

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



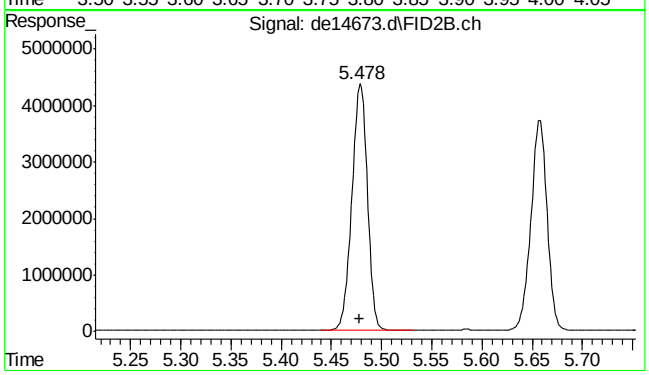

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 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



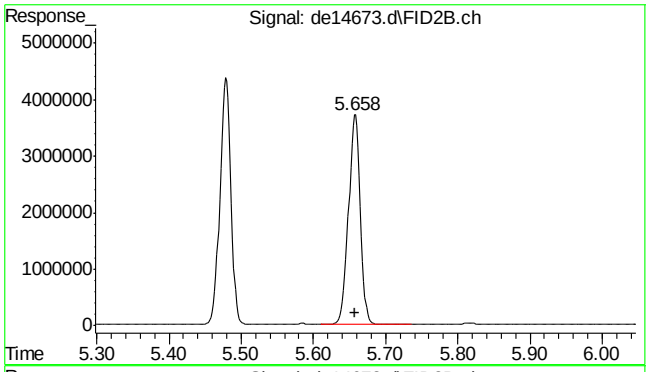

#27 naphthalene #2

R.T.: 5.478 min
Delta R.T.: 0.000 min
Response: 4634254
Conc: 50.98 µg/ml



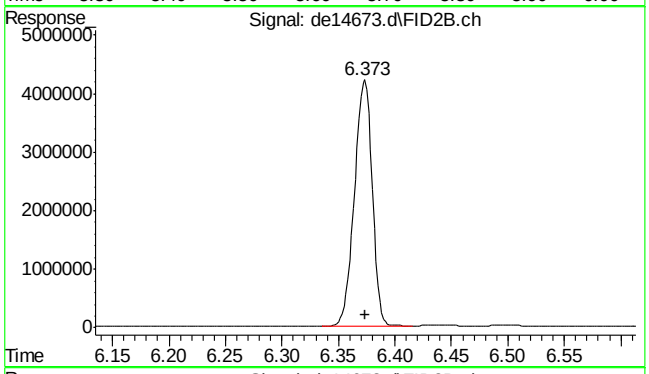


SGS ACCUTEST MC46487



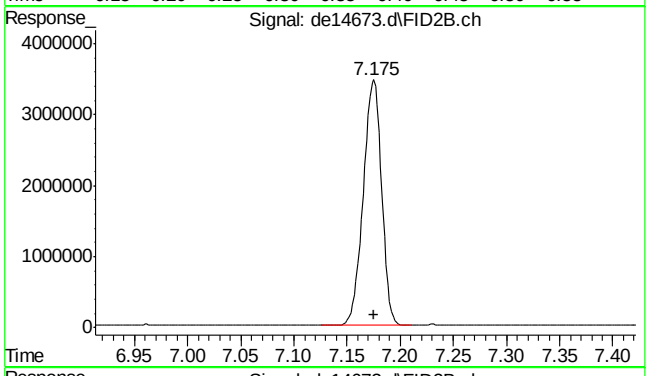

#28 c-12

R.T.: 5.658 min
Delta R.T.: 0.001 min
Response: 4207991
Conc: 49.91 µg/ml



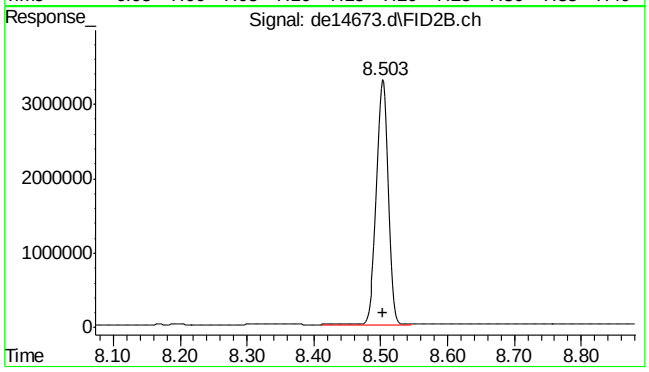

#29 2-methylnaphthalene #2

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





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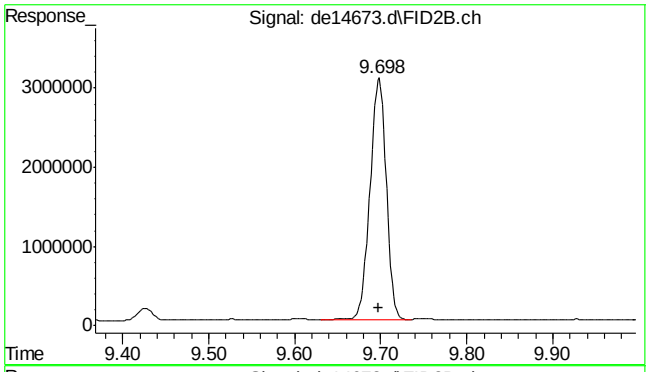
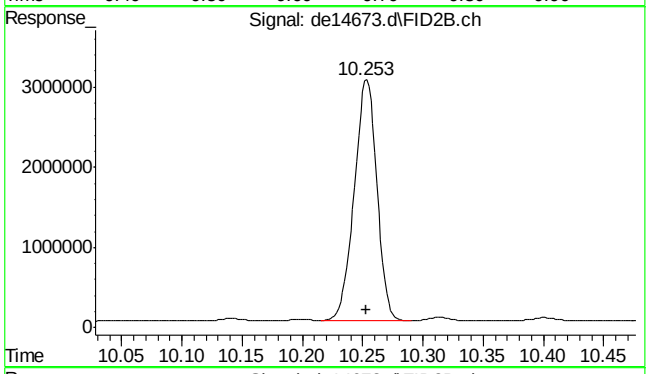


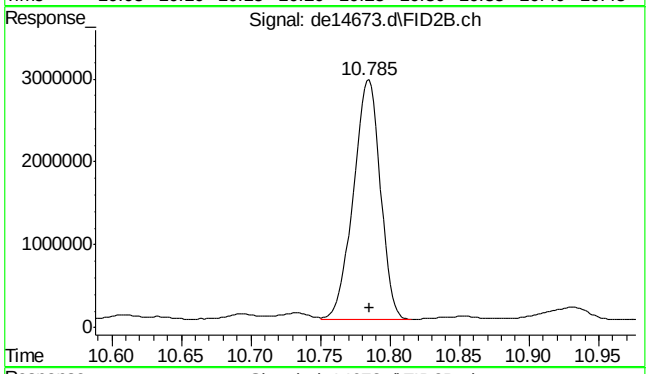

#32 c-18

R.T.: 9.698 min
Delta R.T.: 0.000 min
Response: 4021156
Conc: 47.70 µg/ml



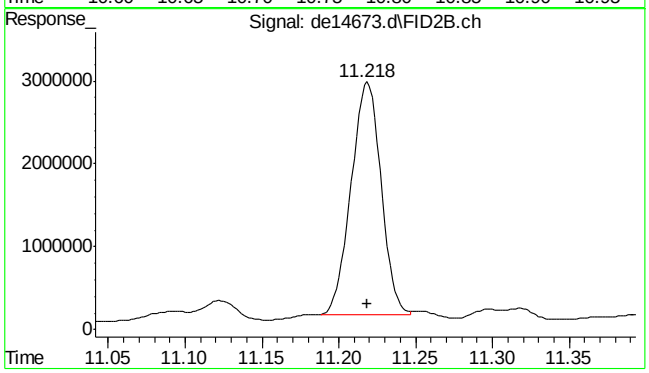

#33 c-19

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

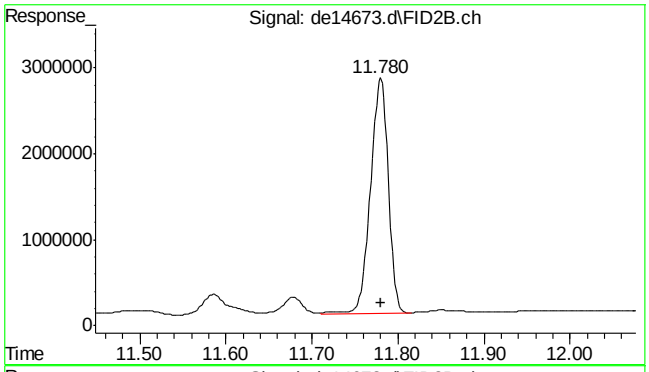
R.T.: 11.218 min
Delta R.T.: 0.000 min
Response: 3828846
Conc: 58.77 µg/ml m

9.4.8

9

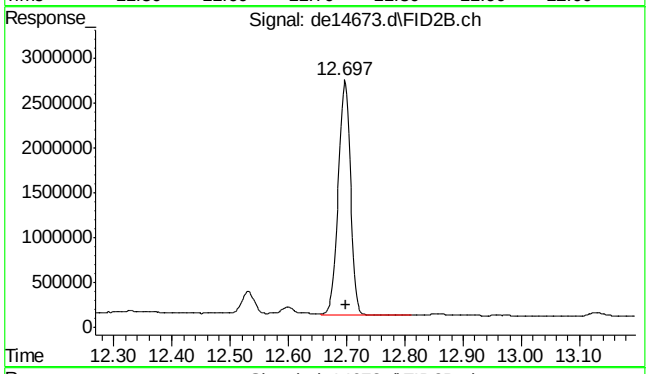


SGS ACCUTEST MC46487



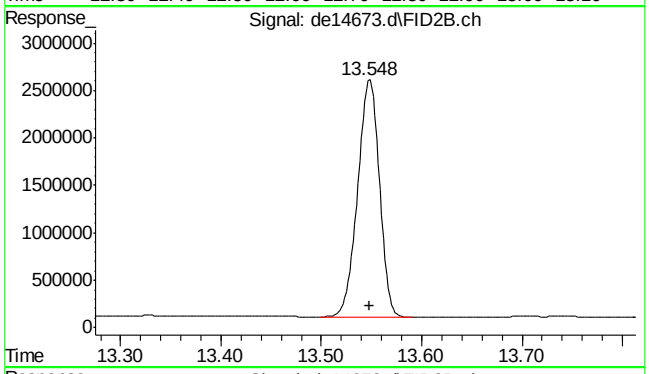

#36 c-22

R.T.: 11.780 min
Delta R.T.: 0.000 min
Response: 3927561
Conc: 50.47 µg/ml



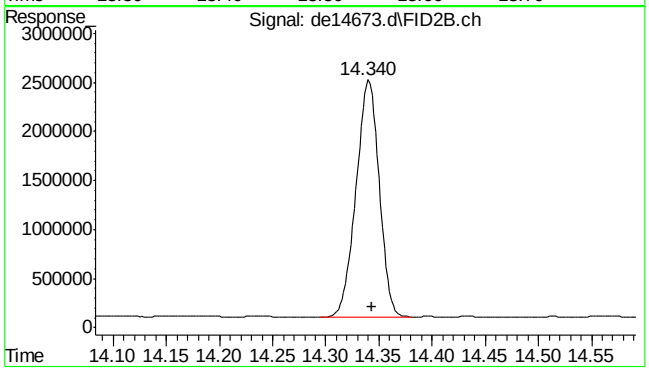

#37 c-24

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



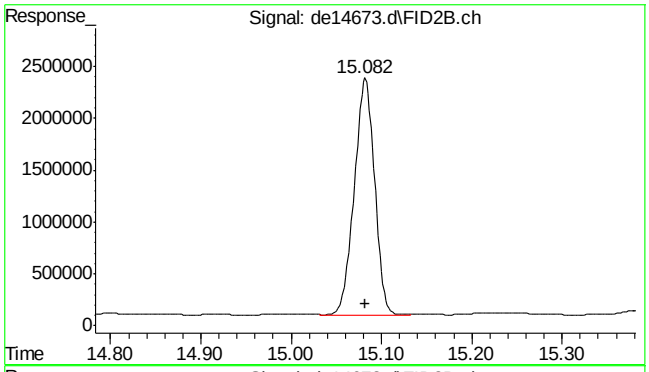

#39 c-28

R.T.: 14.340 min
Delta R.T.: -0.003 min
Response: 3684091
Conc: 47.34 µg/ml



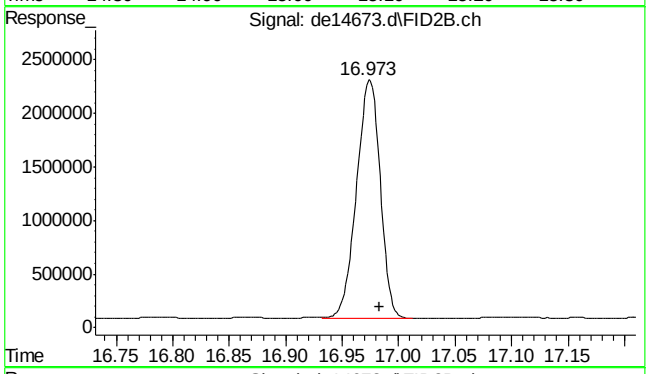


SGS ACCUTEST MC46487



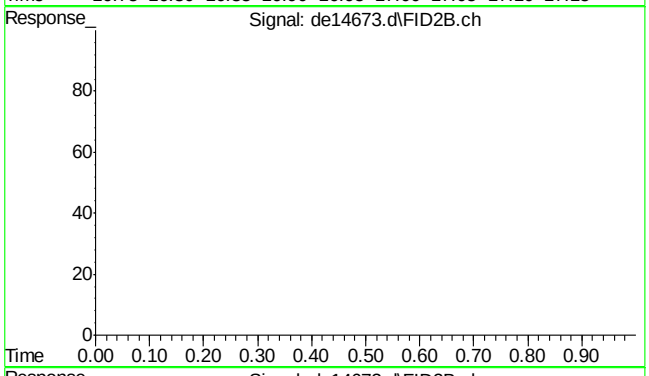

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3605357
Conc: 46.33 µg/ml



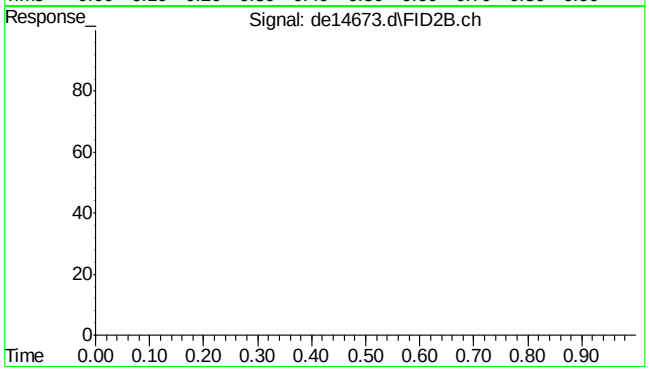

#41 c-36

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.



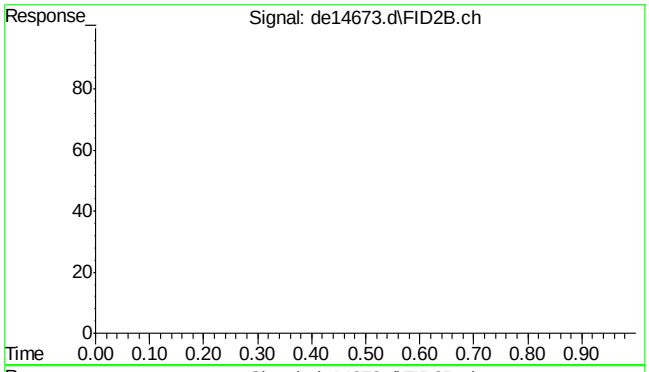

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



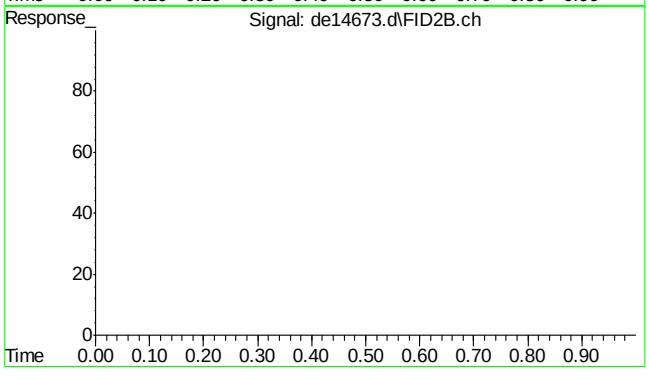


SGS ACCUTEST MC46487




#44 bht

```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```




#45 bht

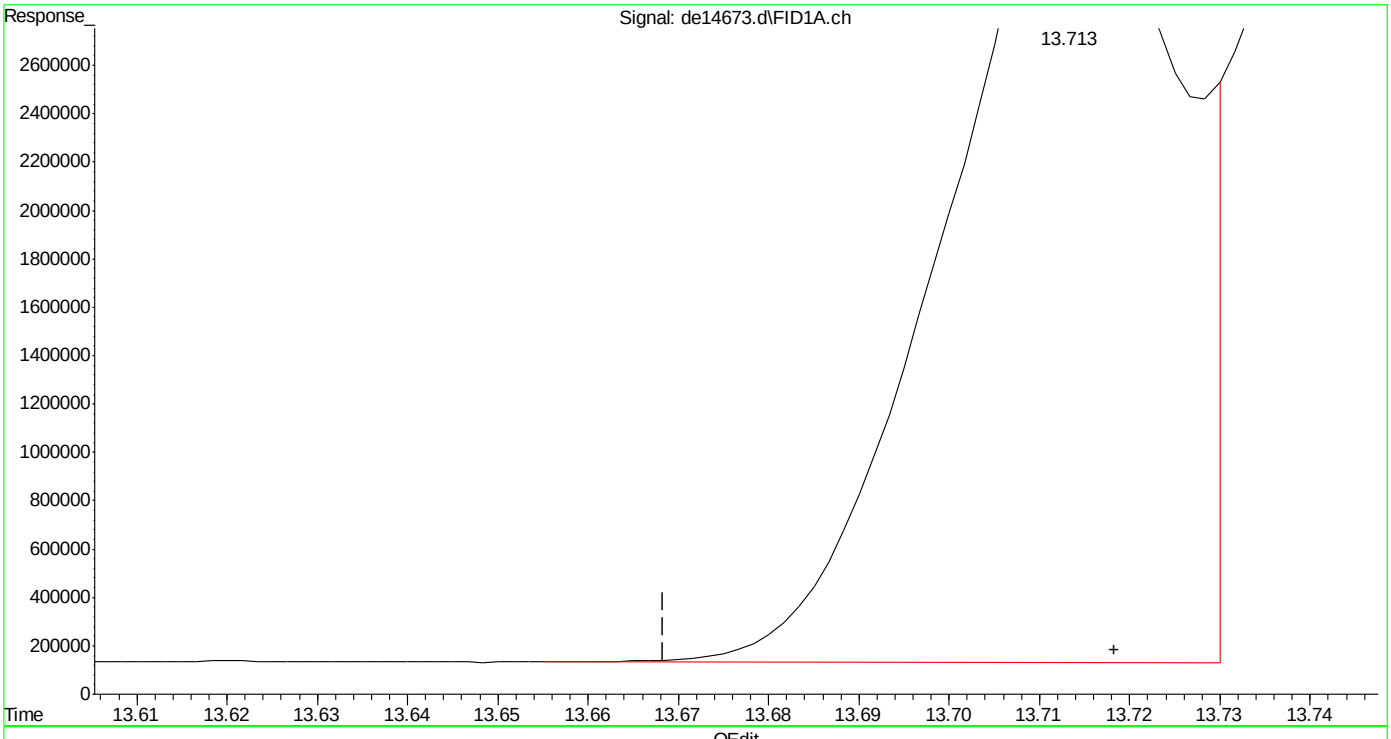
```
      R.T.:    0.000 min
Exp R.T.  :   23.000 min
  Response:         0
      Conc:   N.D.
```

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



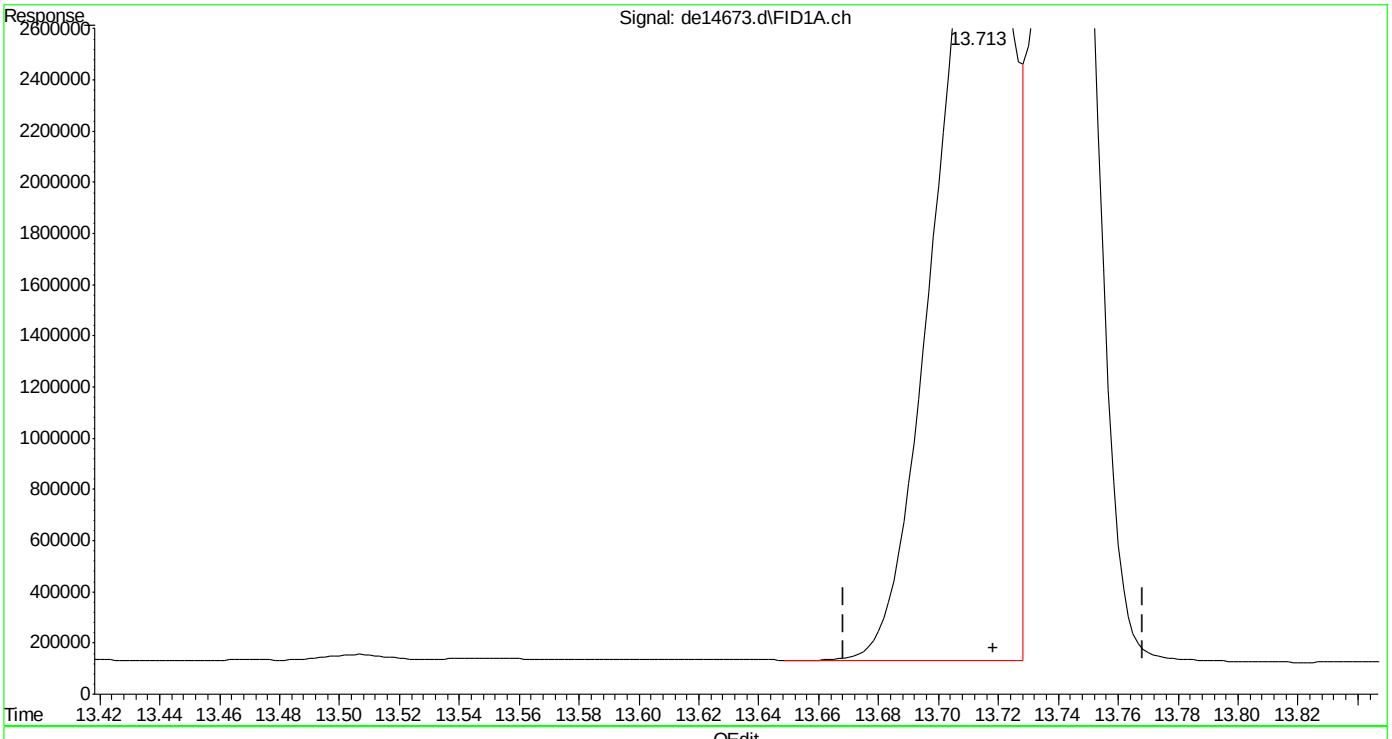
SGS ACCUTEST MC46487

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





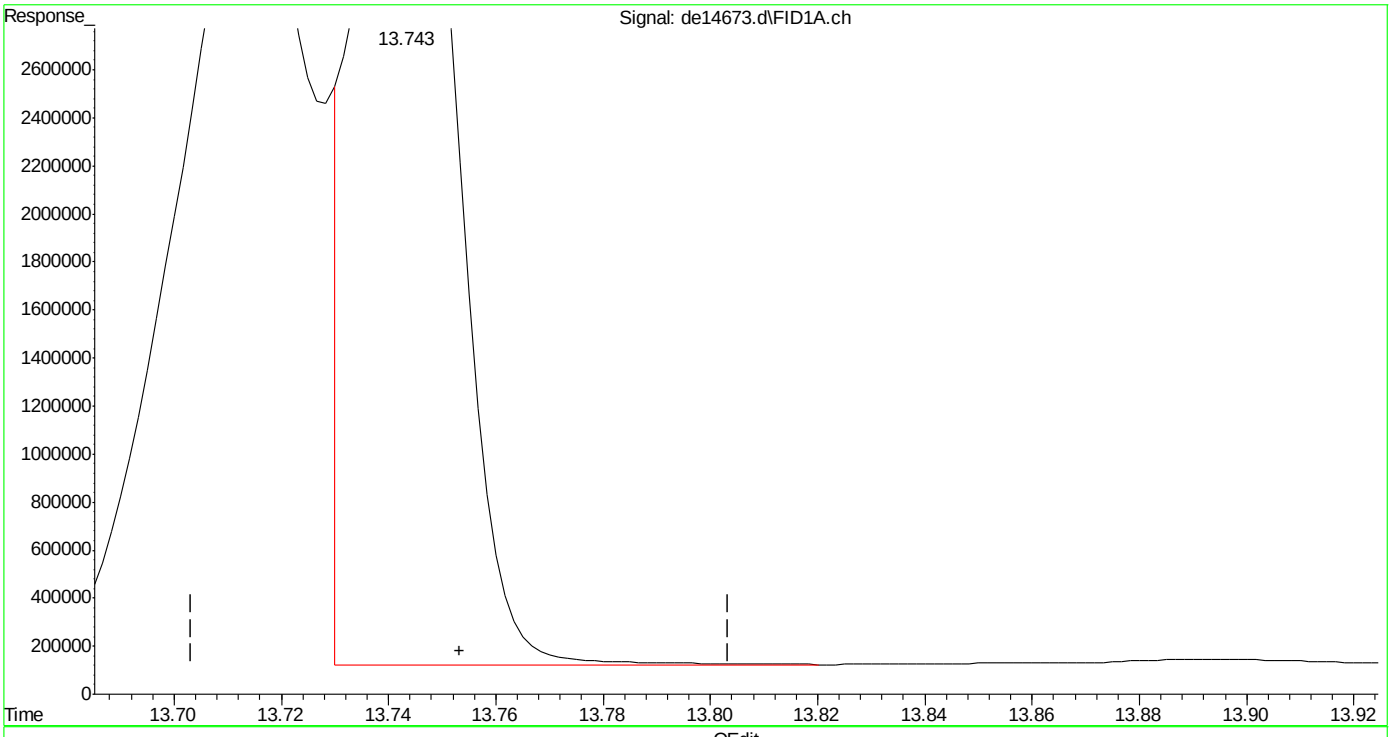
SGS ACCUTEST MC46487

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

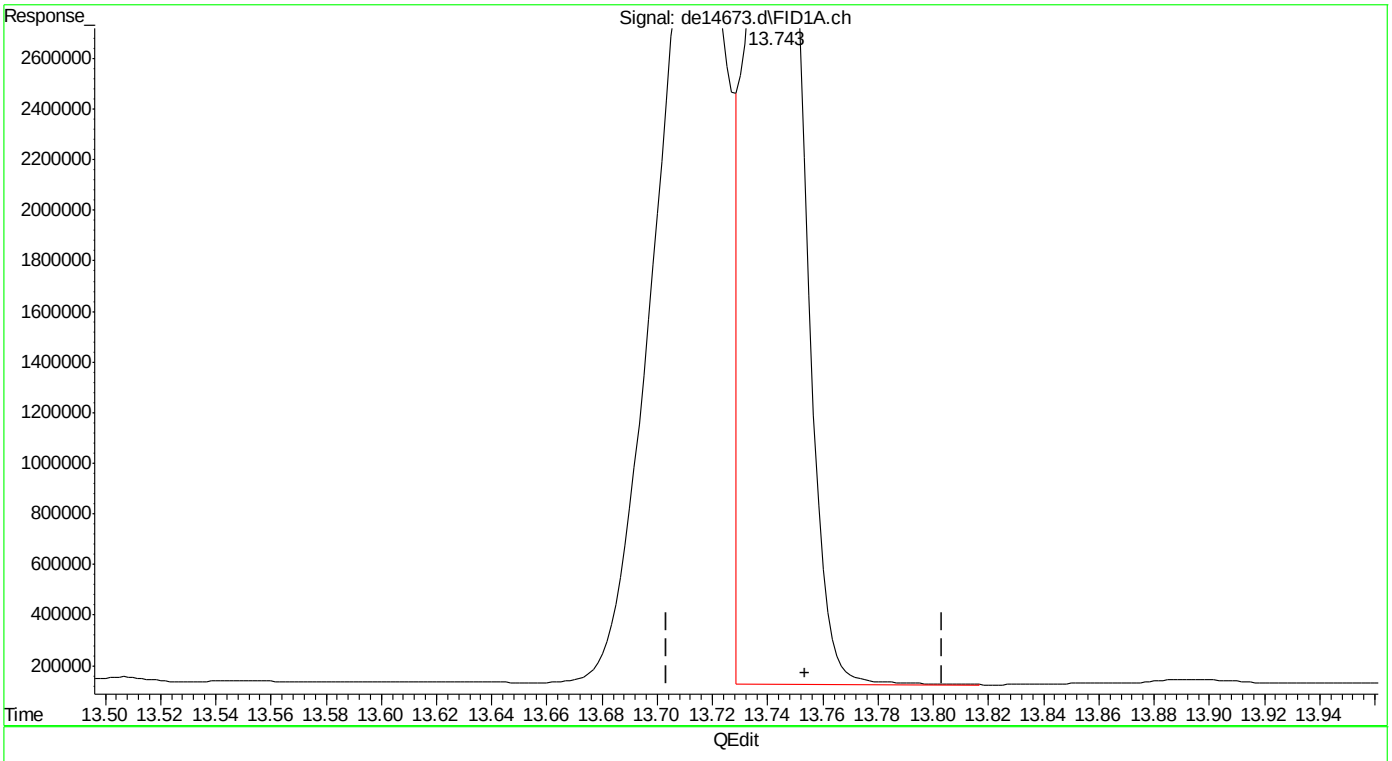
(+) = Expected Retention Time

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

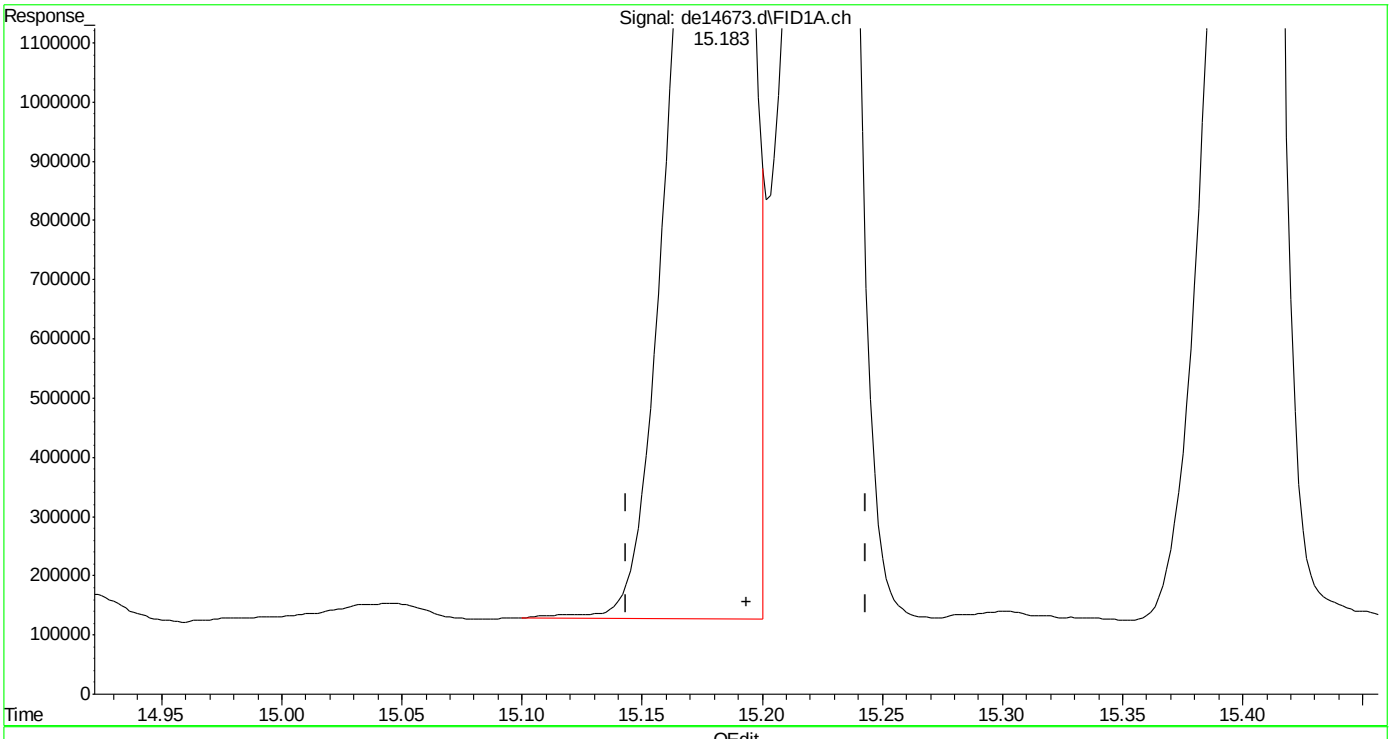
(+) = Expected Retention Time
EPH160622W.M Thu Jun 23 08:04:24 2016

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





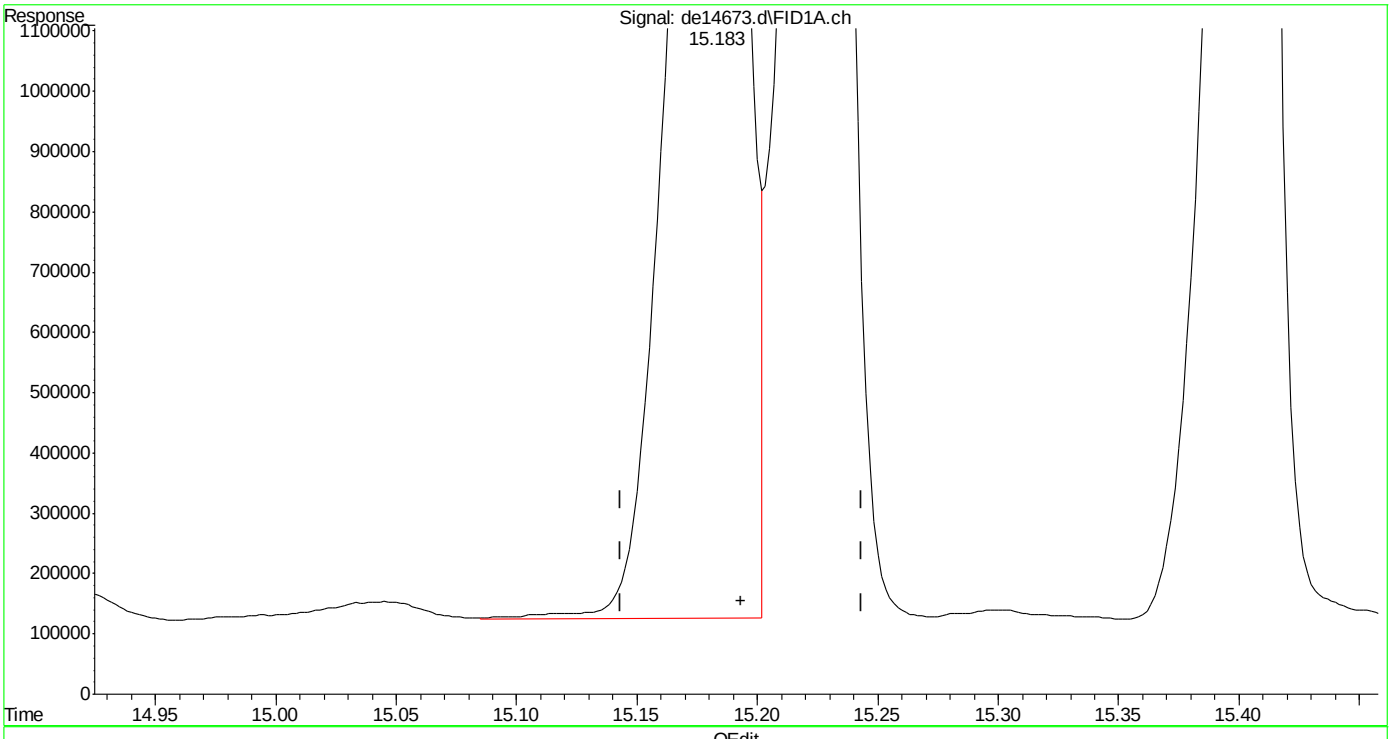
SGS ACCUTEST MC46487

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

EPH160622W.M Thu Jun 23 08:04:44 2016





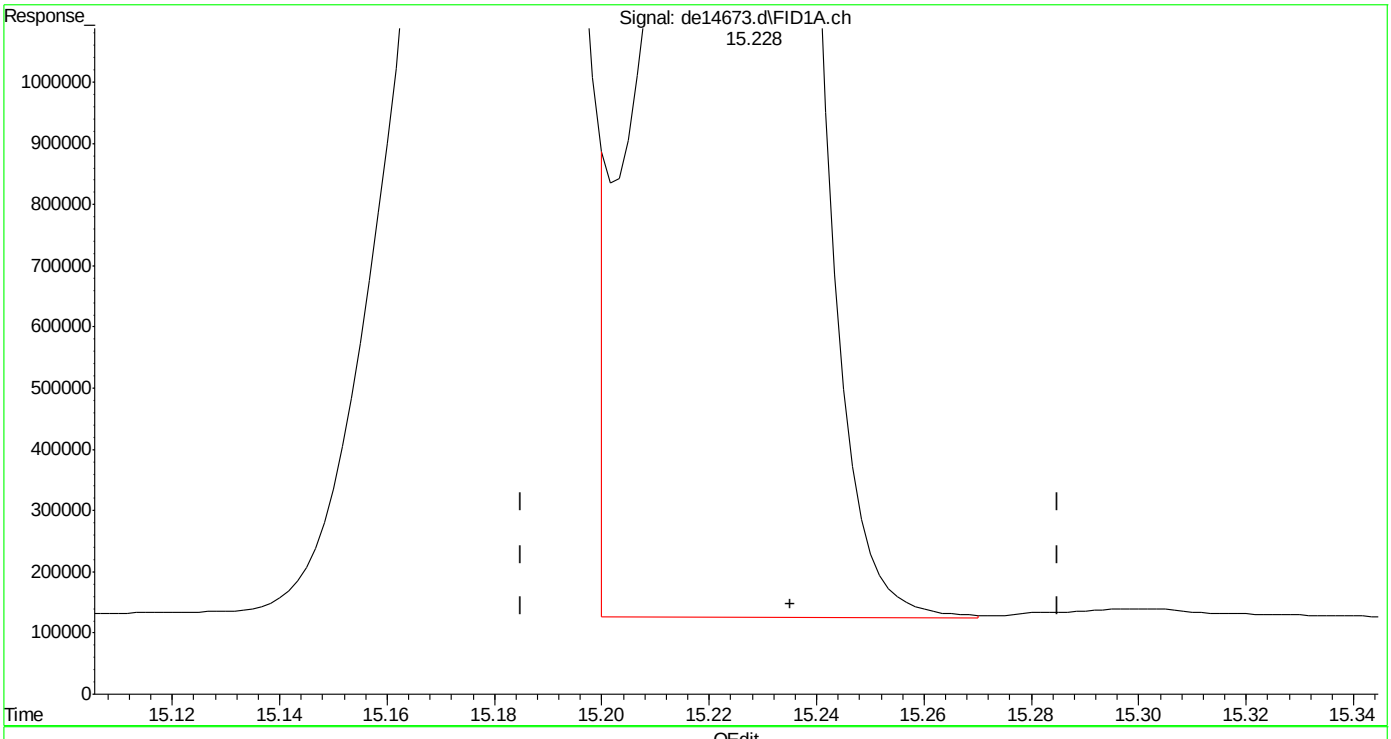
SGS ACCUTEST MC46487

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







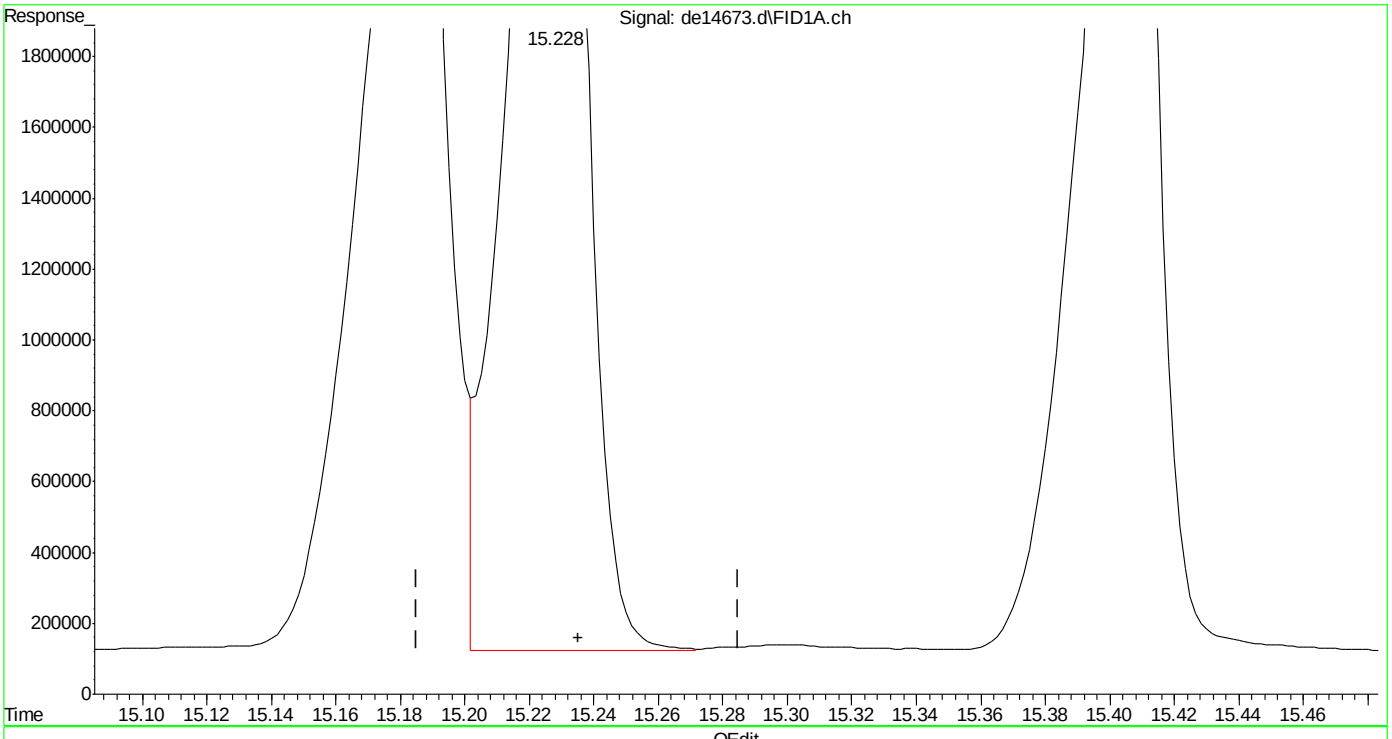
SGS ACCUTEST MC46487

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

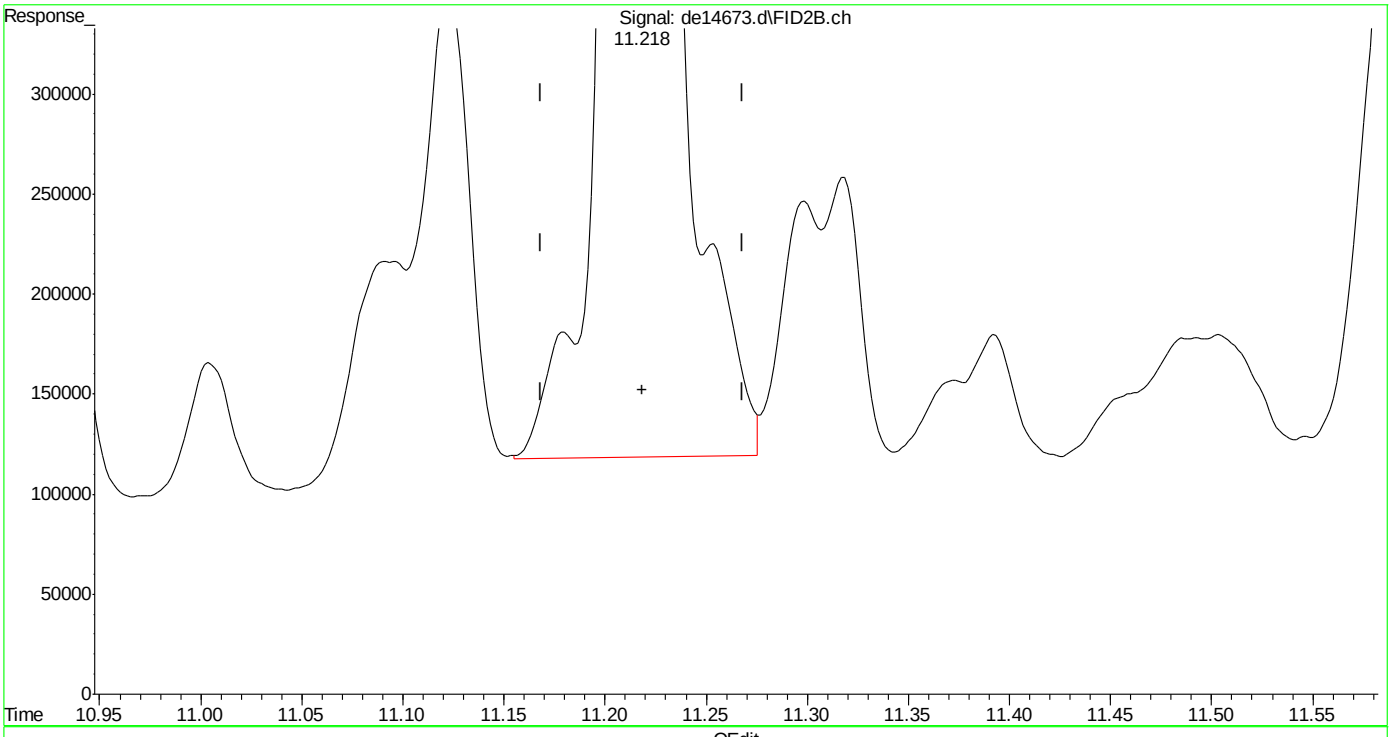
EPH160622W.M Thu Jun 23 08:04:56 2016

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





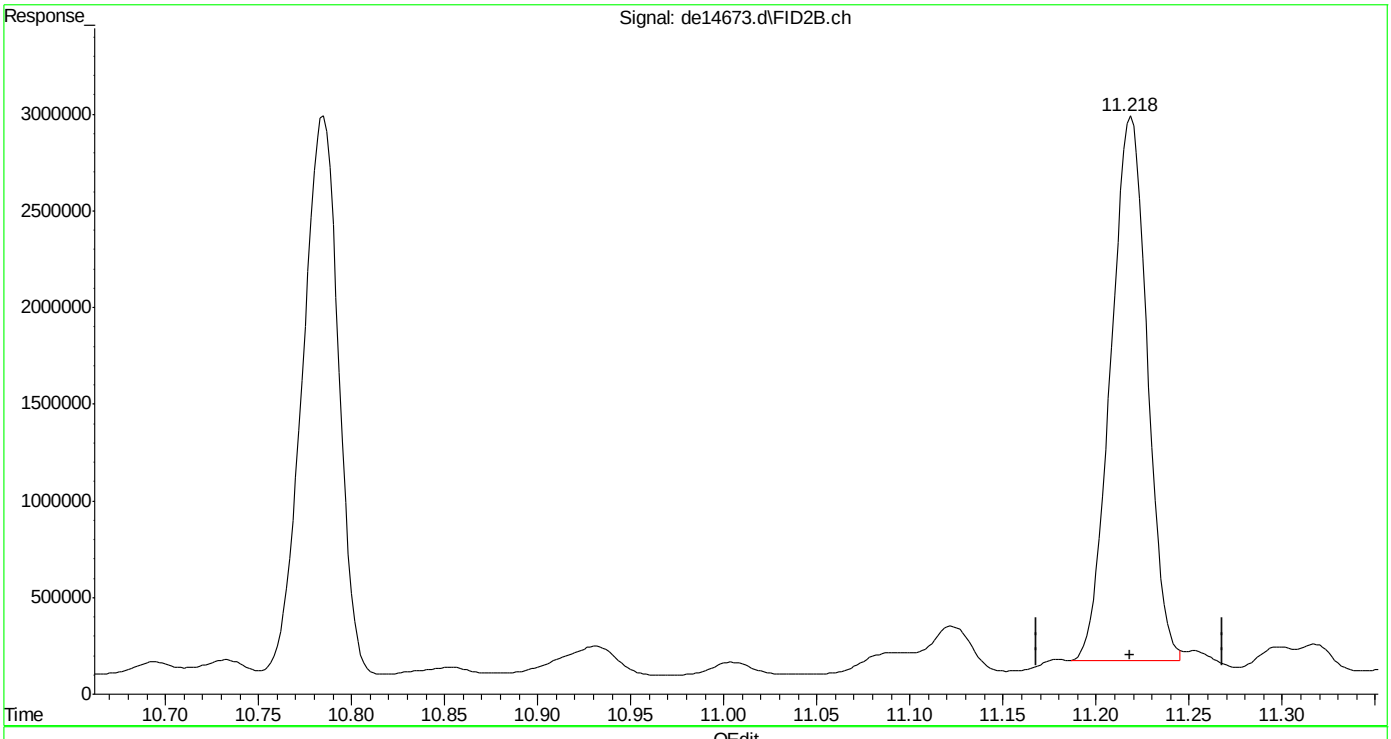
SGS ACCUTEST MC46487

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





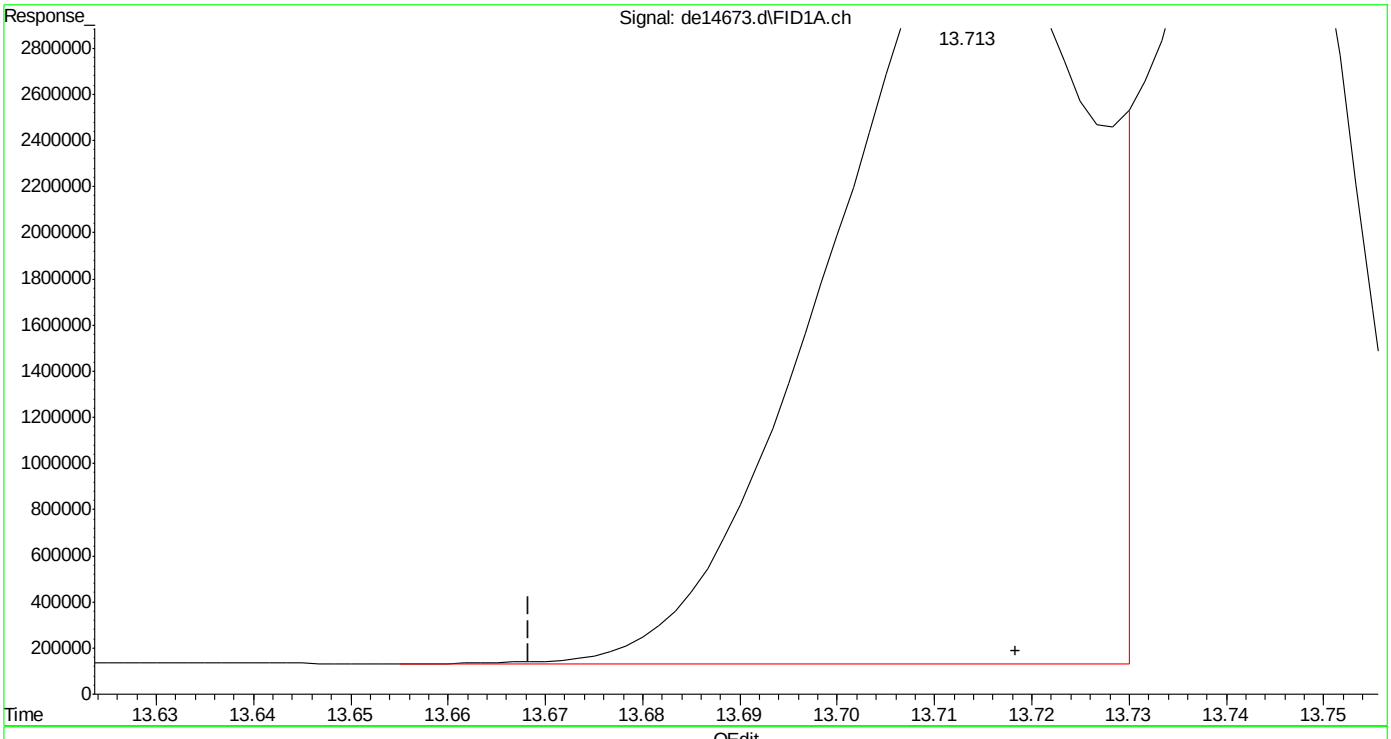
SGS ACCUTEST MC46487

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

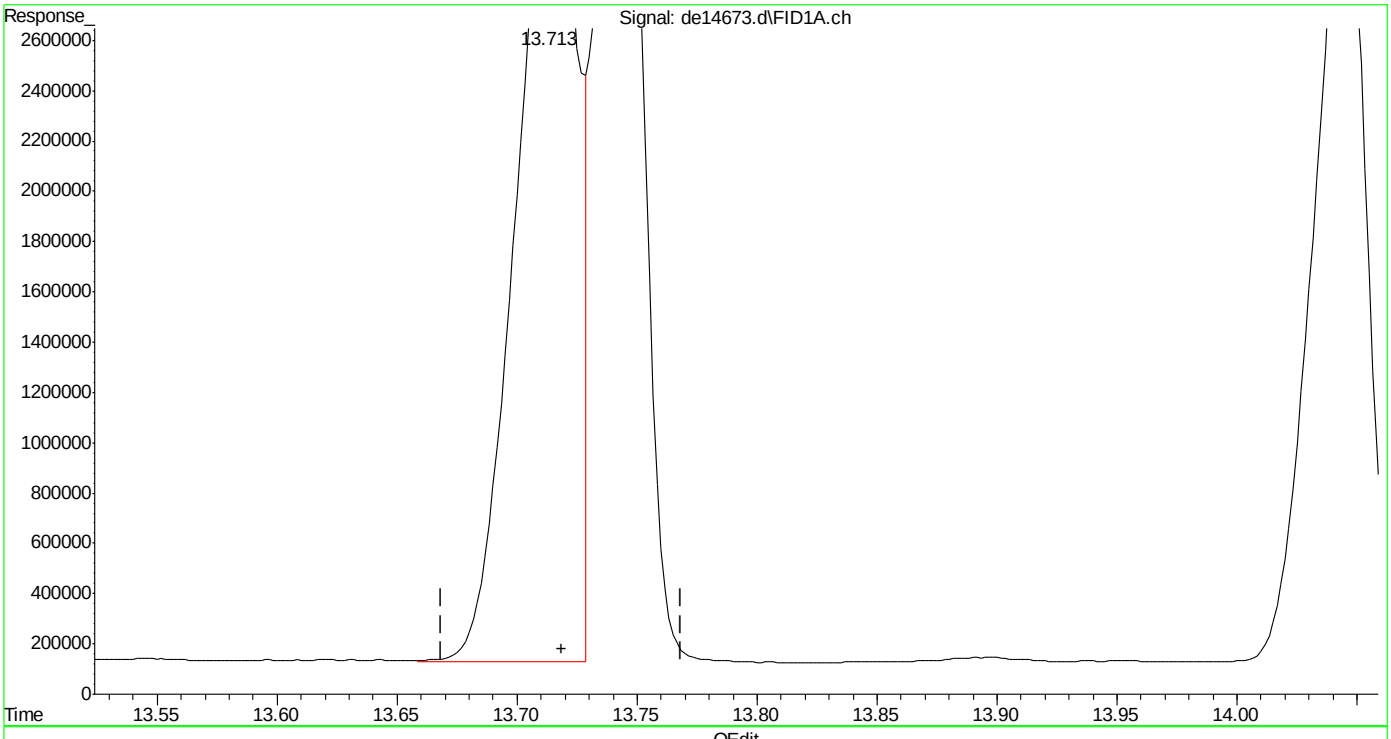
(+) = Expected Retention Time

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





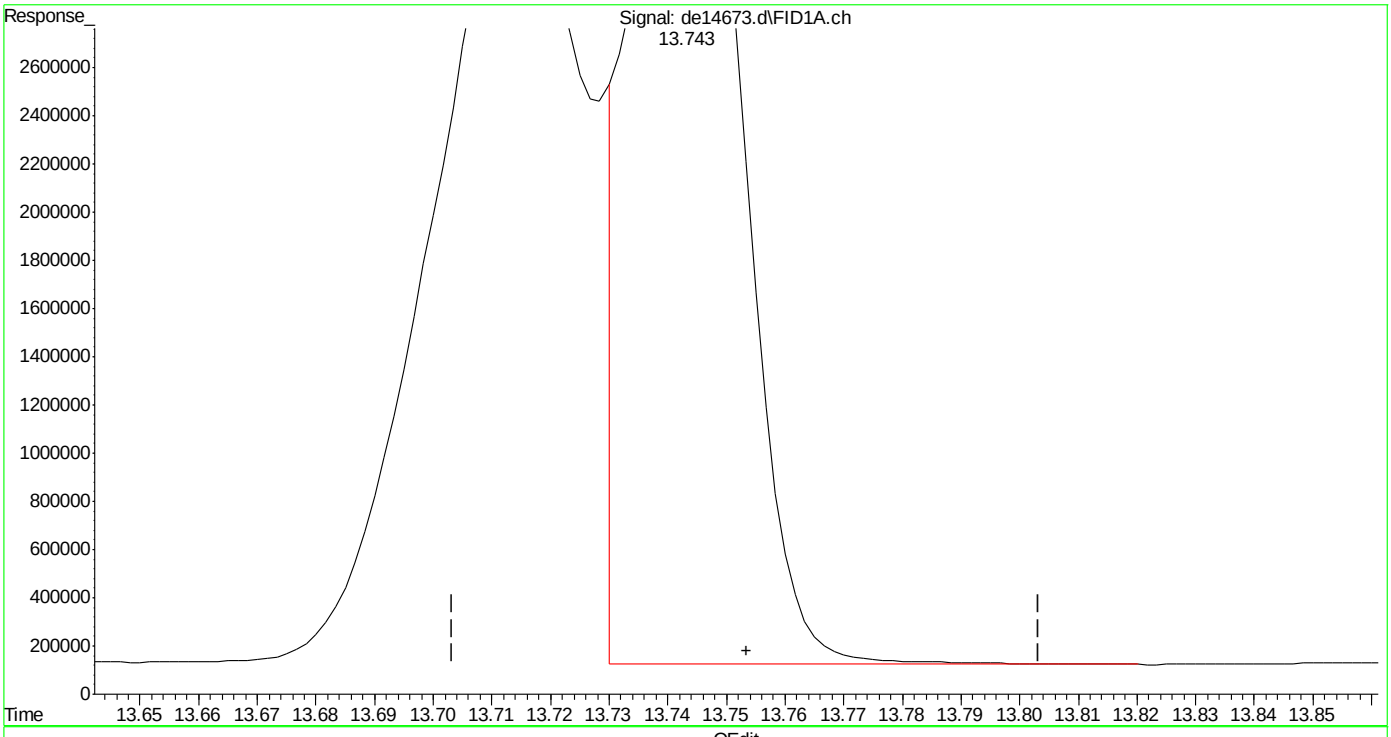
SGS ACCUTEST MC46487

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

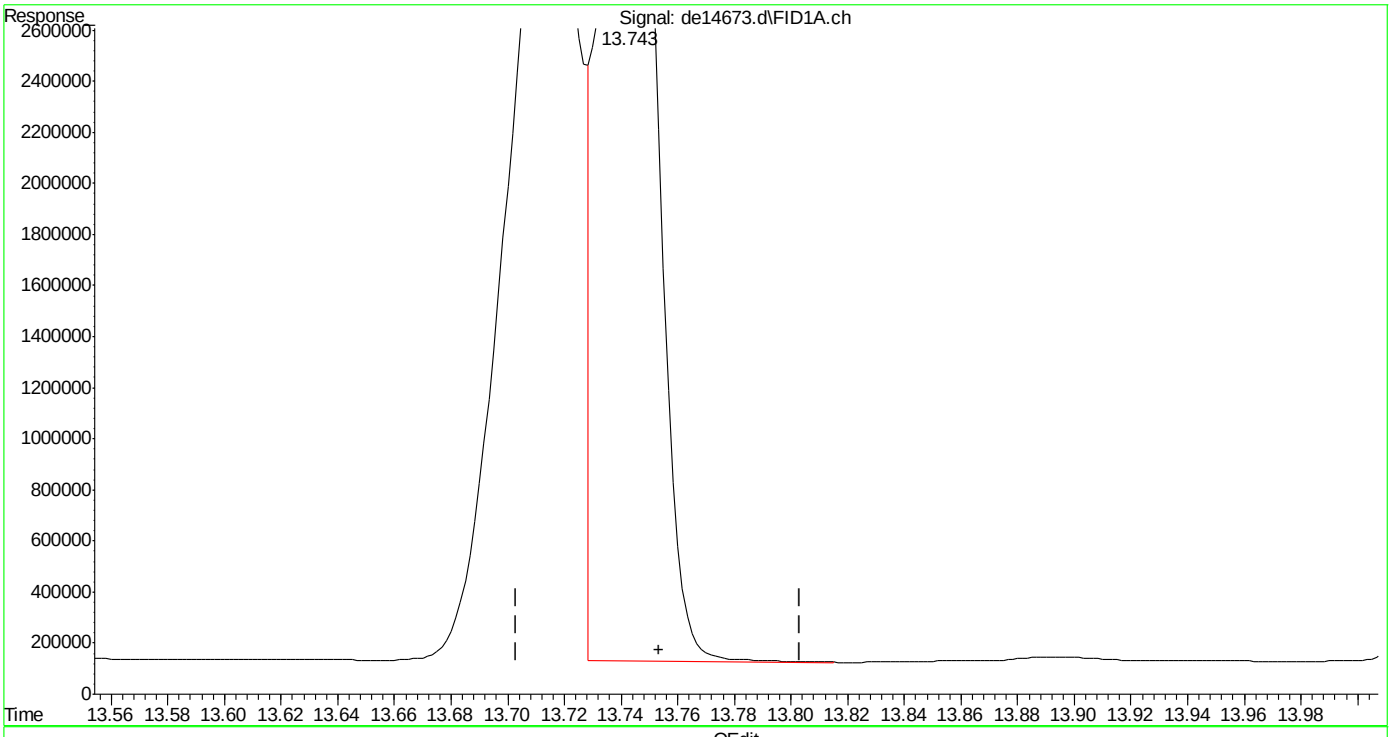
(+) = Expected Retention Time

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





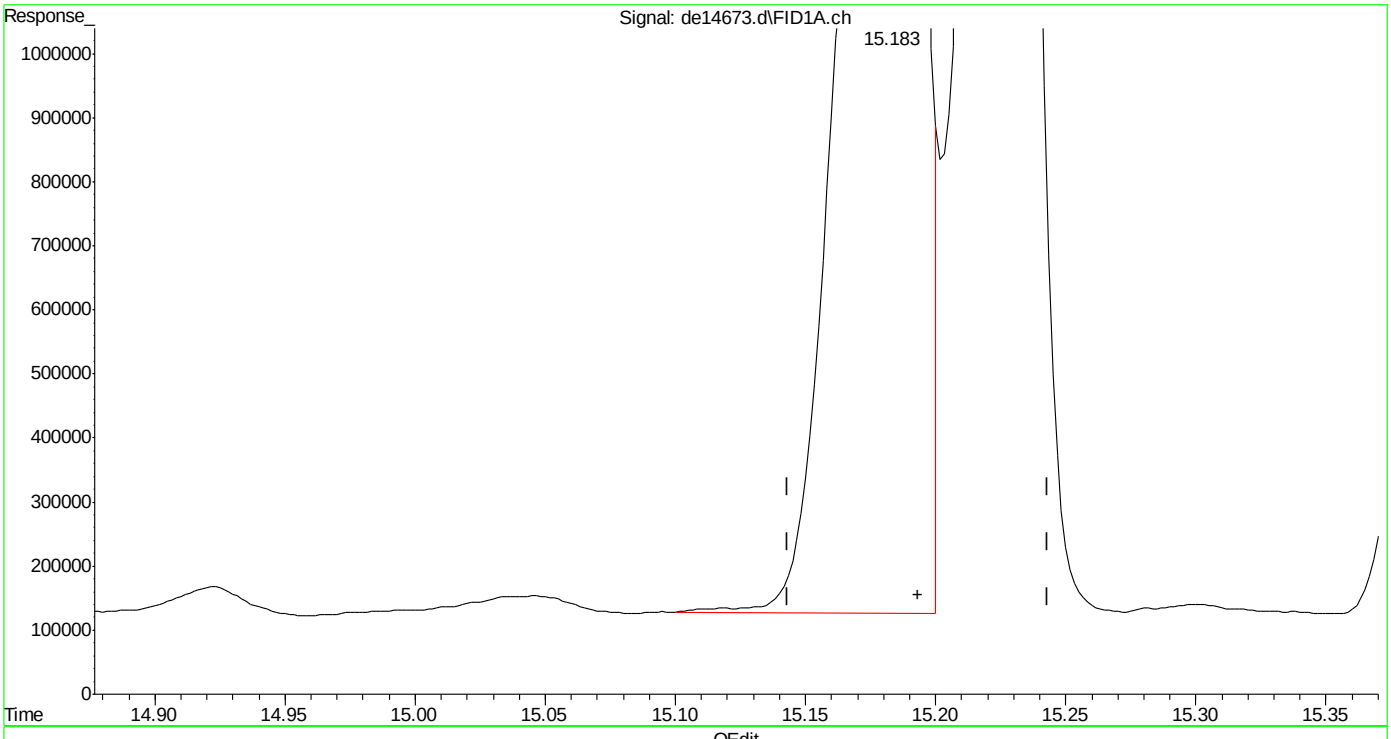
SGS ACCUTEST MC46487

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

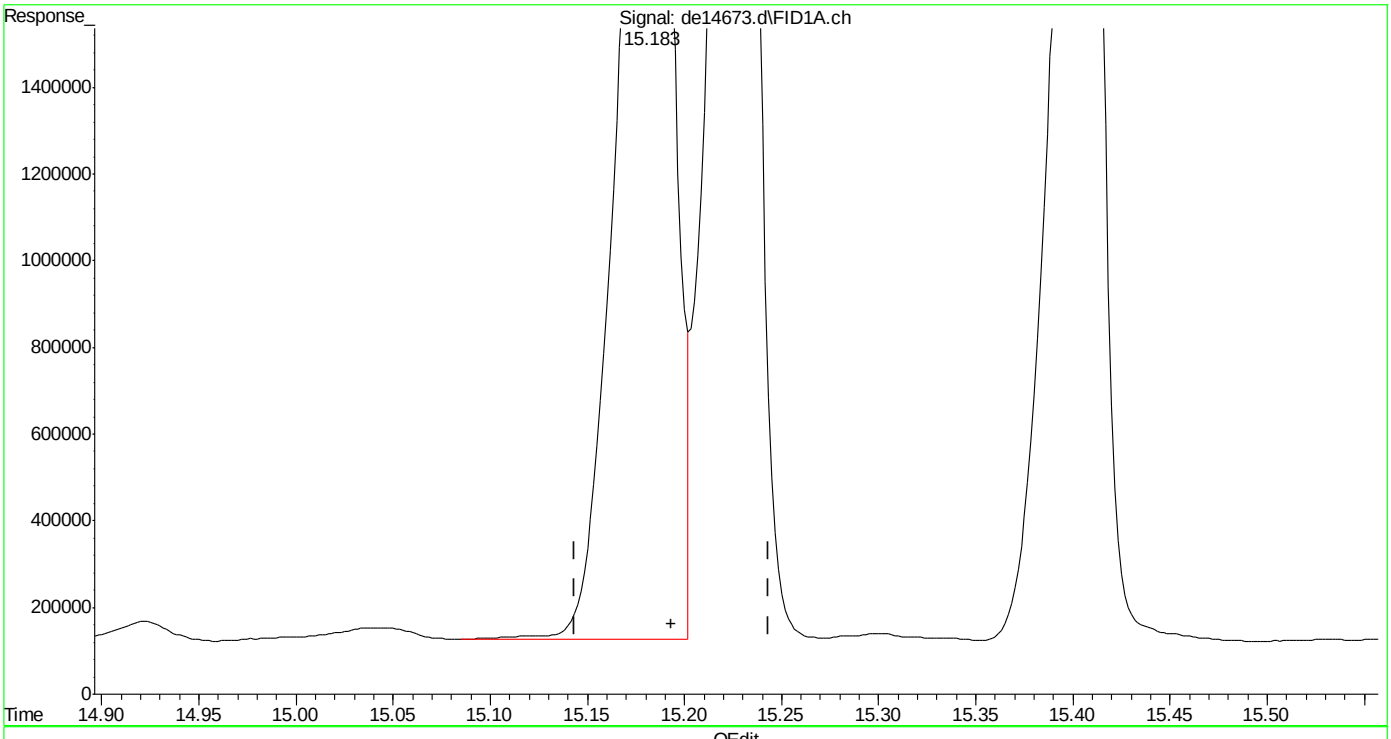
(+) = Expected Retention Time

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





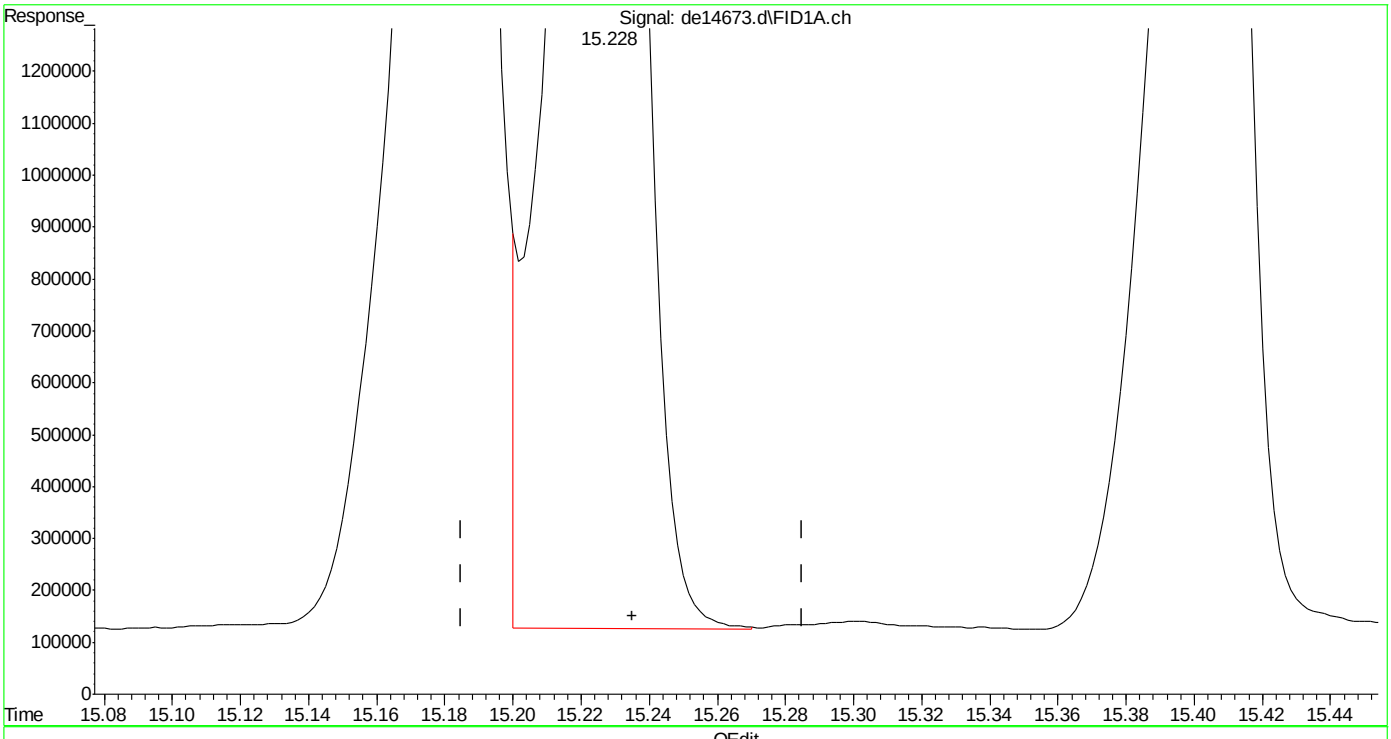
SGS ACCUTEST MC46487

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

EPH160622W.M Thu Jun 23 08:11:26 2016





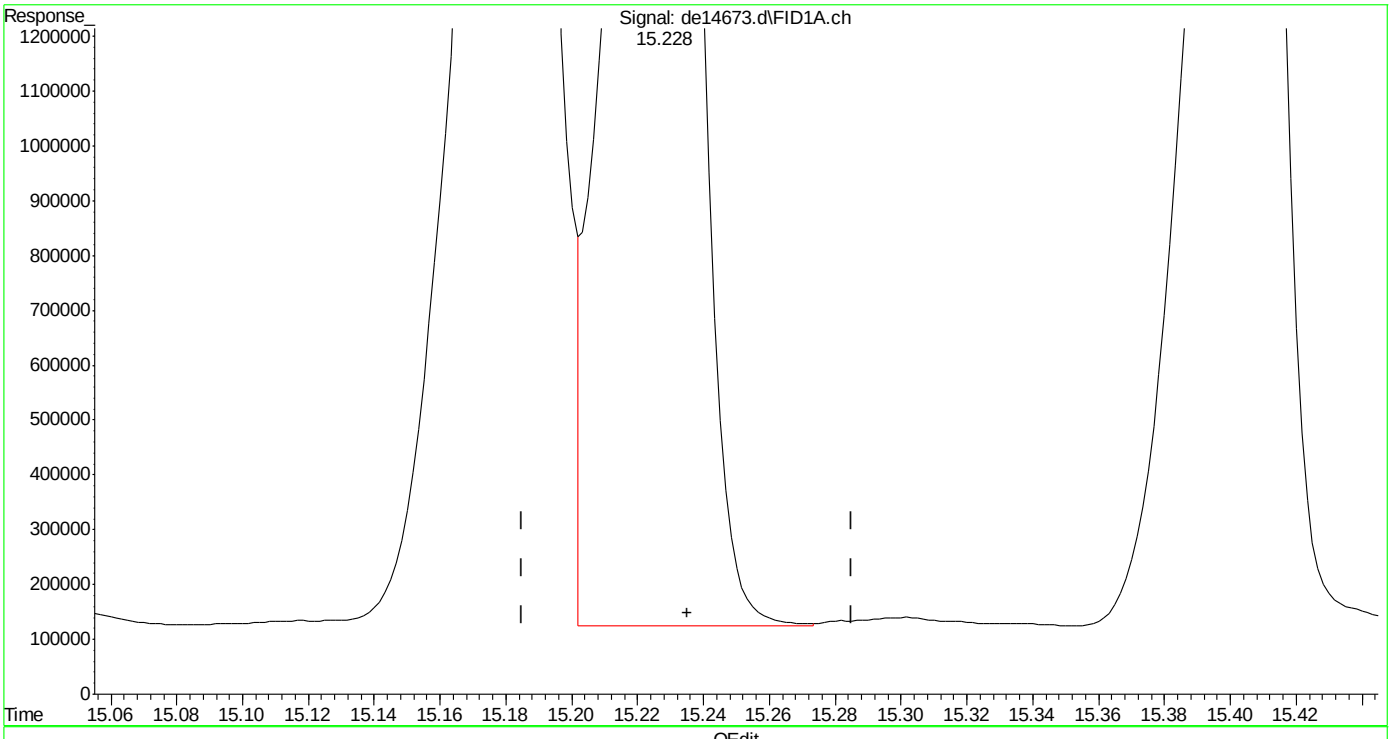
SGS ACCUTEST MC46487

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





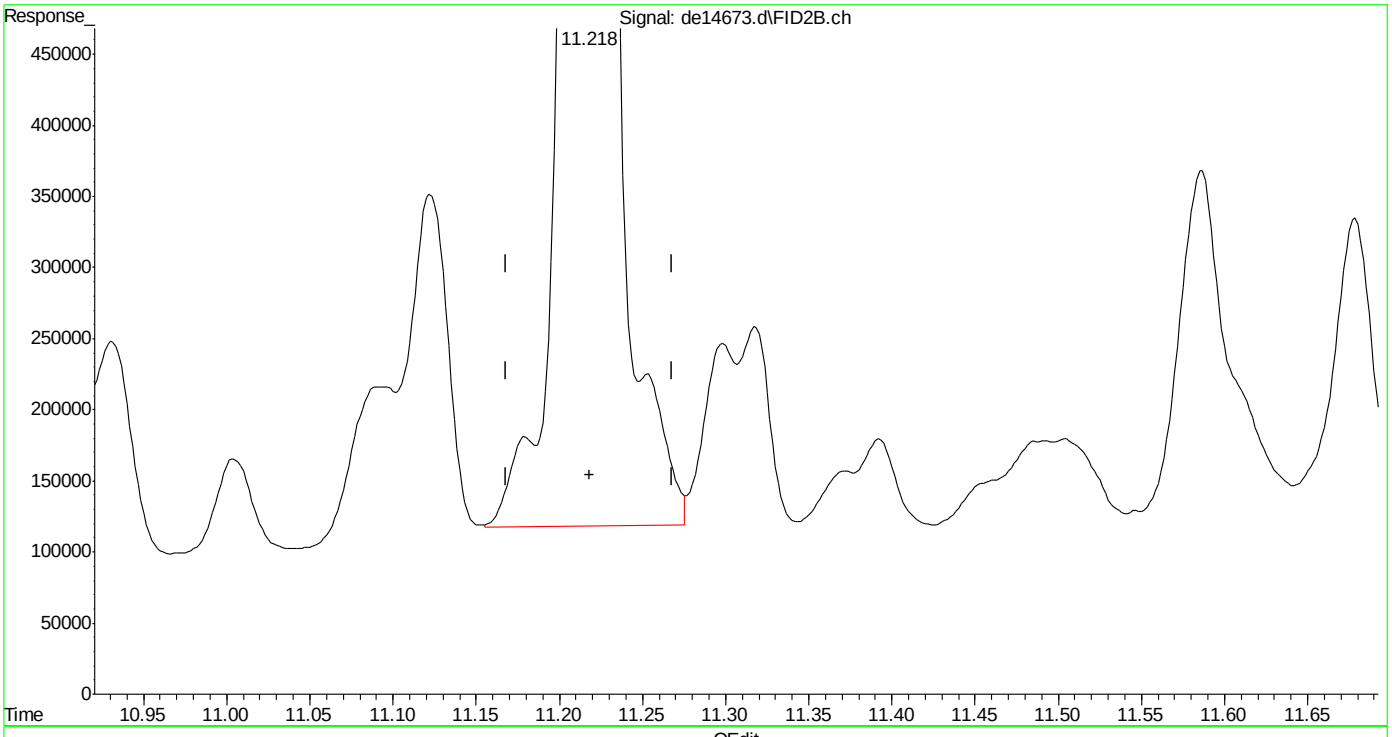
SGS ACCUTEST MC46487

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





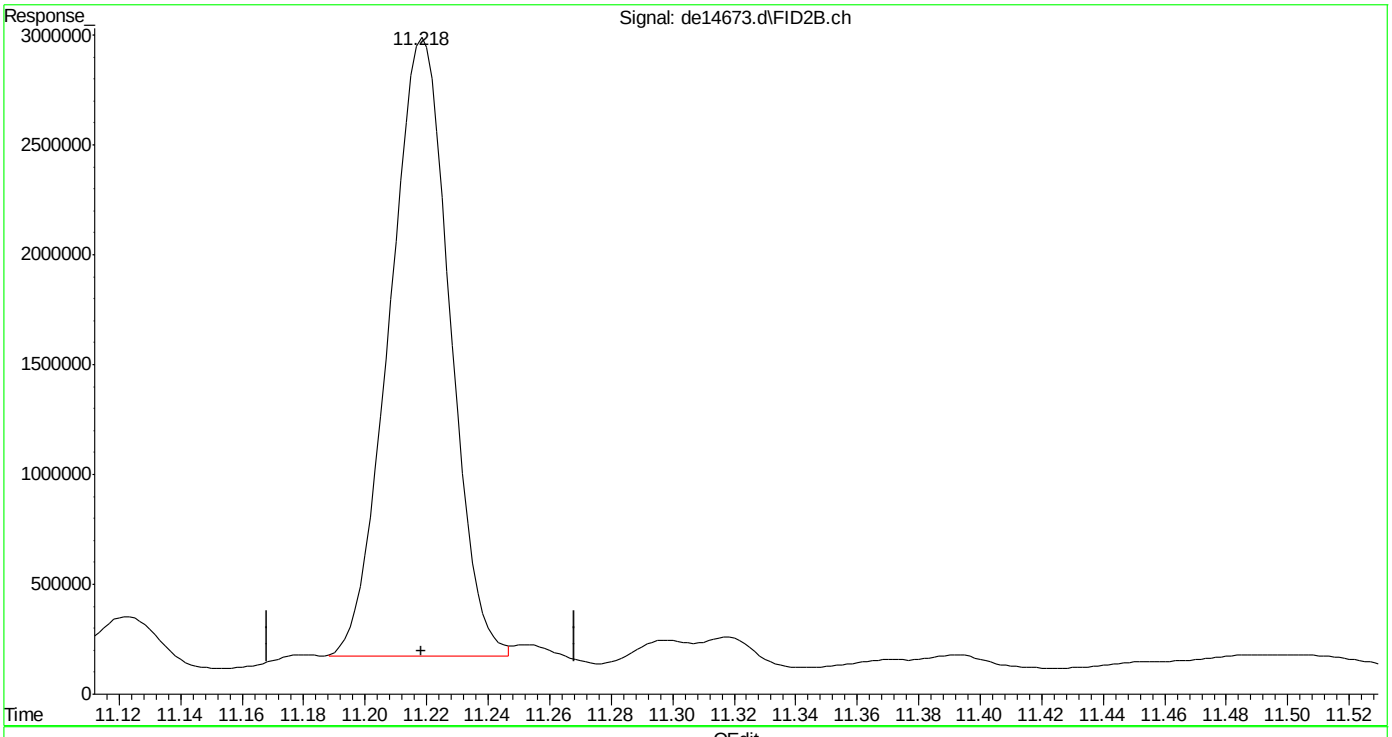
SGS ACCUTEST MC46487

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

Manual Integrations APPROVED (compounds with "m" flag)
Sona Liskova
06/29/16 12:47

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:43:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 5741025 | 50.150 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 250.75%# |
| 6) s | 2-bromonaphthalene | 7.218 | 3800974 | 53.010 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 265.05%# |
| 11) s | o-terphenyl | 9.757 | 6387110 | 48.275 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 241.37%# |
| 35) s | 1-chlorooctadecane | 11.213 | 3160284 | 48.506 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 242.53%# |
| | **Target Compounds** | | | |
| 2) | naphthalene | 5.040 | 6419241 | 51.135 µg/ml |
| 3) | 2-methylnaphthalene | 5.942 | 6386460 | 50.628 µg/ml |
| 5) | acenaphthylene | 7.052 | 6274619 | 49.592 µg/ml |
| 7) | acenaphthene | 7.293 | 6499290 | 46.661 µg/ml |
| 8) | fluorene | 7.935 | 6367876 | 49.568 µg/ml |
| 9) | phenanthrene | 9.112 | 6306351 | 50.485 µg/ml |
| 10) | anthracene | 9.168 | 6199745 | 46.602 µg/ml |
| 12) | fluoranthene | 10.610 | 6256245 | 48.776 µg/ml |
| 13) | pyrene | 10.865 | 6405860 | 48.773 µg/ml |
| 14) | benzo(a)anthracene | 12.427 | 6027042 | 49.613 µg/ml |
| 15) | chrysene | 12.473 | 6068921 | 47.544 µg/ml |
| 16) | benzo(B)fluoranthene | 13.718 | 6558504 | 55.394 µg/mlm |
| 17) | benzo(k)fluoranthene | 13.752 | 5665258 | 44.249 µg/mlm |
| 18) | benzo(a)pyrene | 14.052 | 5821489 | 49.352 µg/ml |
| 19) | indeno(1,2,3-cd)pyrene | 15.192 | 5919780 | 50.576 µg/mlm |
| 20) | dibenzo(ah)anthracene | 15.235 | 5740992 | 50.667 µg/mlm |
| 21) | benzo(ghi)perylene | 15.412 | 5713608 | 50.351 µg/ml |
| 25) h | c-9 | 2.647 | 4056799 | 48.120 µg/mlm |
| 26) h | c-10 | 3.800 | 4099307 | 48.624 µg/ml |
| 27) | naphthalene #2 | 5.477 | 4364462 | 48.008 µg/ml |
| 28) | c-12 | 5.657 | 4059457 | 48.152 µg/ml |
| 29) | 2-methylnaphthalene #2 | 6.372 | 4341315 | 48.271 µg/ml |
| 30) | c-14 | 7.173 | 4023681 | 47.727 µg/ml |
| 31) | c-16 | 8.502 | 3986039 | 47.281 µg/ml |
| 32) | c-18 | 9.695 | 4002798 | 47.480 µg/ml |
| 33) | c-19 | 10.252 | 3982907 | 51.178 µg/ml |
| 34) | c-20 | 10.782 | 3915603 | 50.314 µg/ml |
| 36) | c-22 | 11.777 | 3894763 | 50.046 µg/ml |
| 37) | c-24 | 12.693 | 3636194 | 46.723 µg/ml |
| 38) | c-26 | 13.543 | 3890368 | 49.989 µg/ml |

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:43:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 3774958 | 48.506 | µg/ml |
| 40) h | c-30 | 15.082 | 3829303 | 49.205 | µg/ml |
| 41) h | c-36 | 16.983 | 3472319 | 44.618 | µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

9.4.9

9



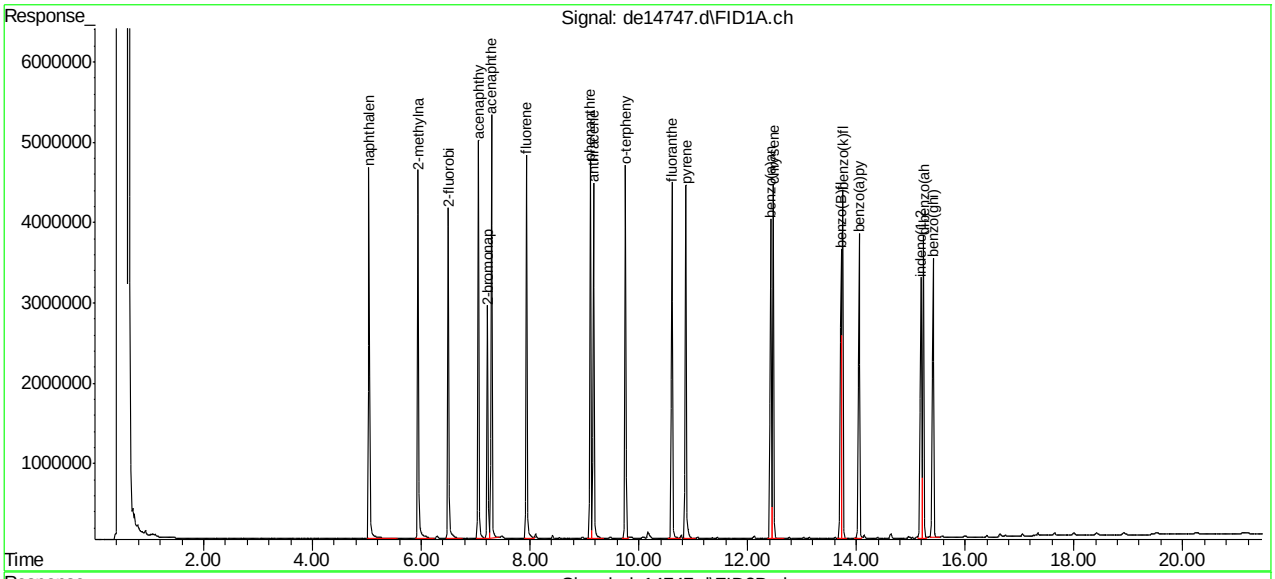
SGS ACCUTEST MC46487

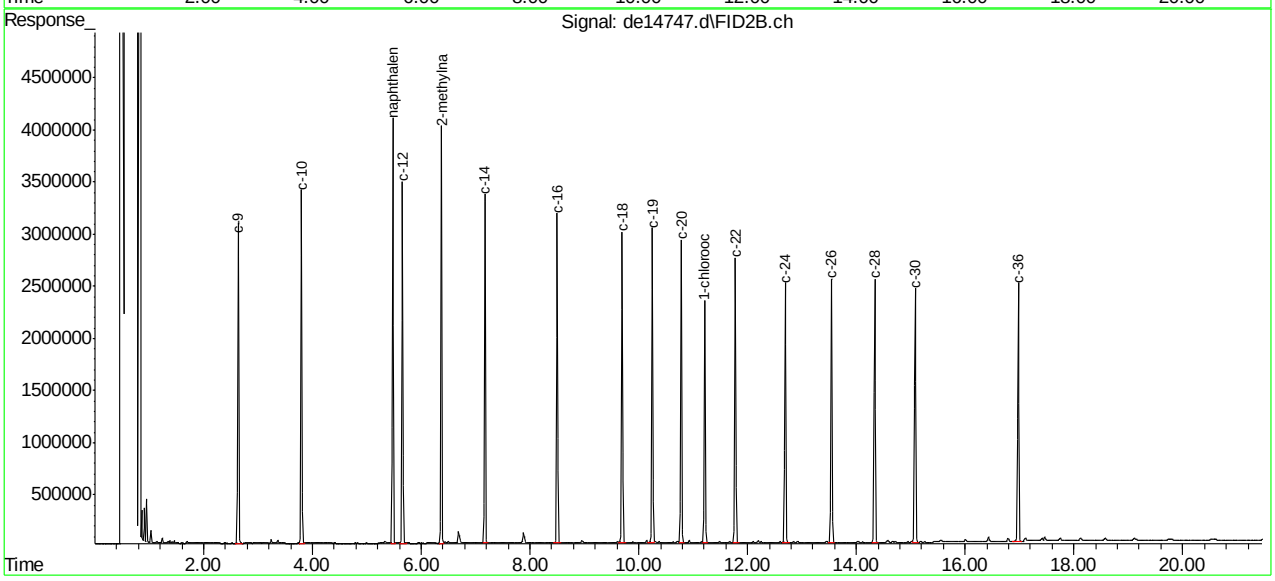
Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:43:17 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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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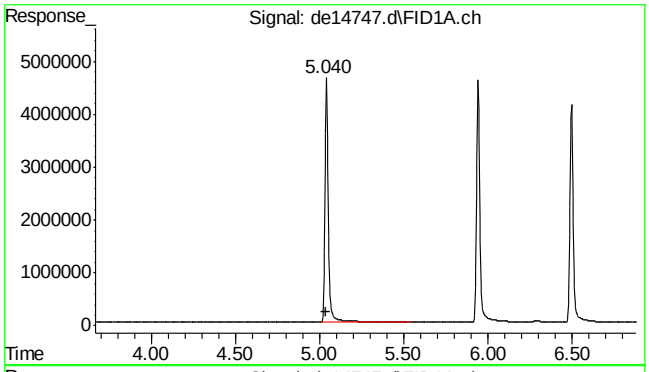
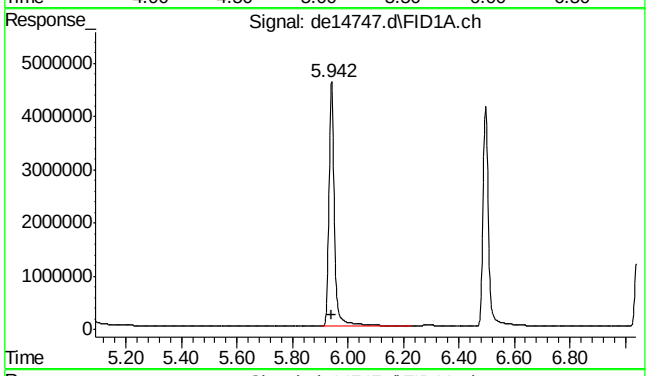


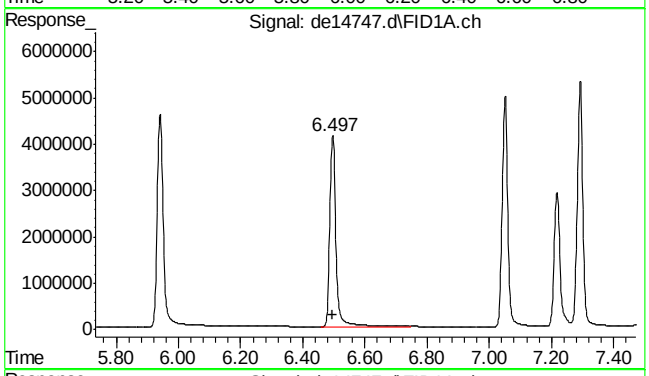

#2 naphthalene

R.T.: 5.040 min
Delta R.T.: 0.000 min
Response: 6419241
Conc: 51.13 µg/ml



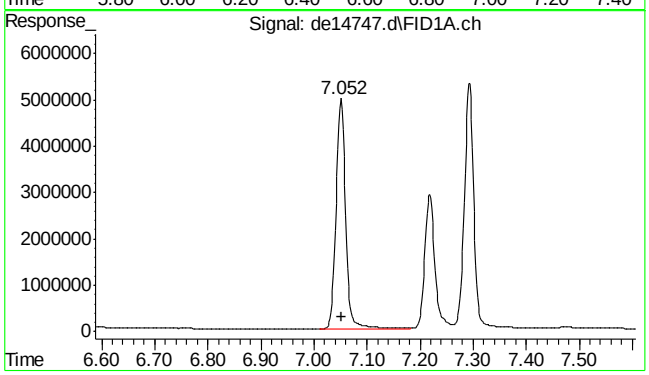

#3 2-methylnaphthalene

R.T.: 5.942 min
Delta R.T.: 0.000 min
Response: 6386460
Conc: 50.63 µg/ml




#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.000 min
Response: 5741025
Conc: 50.15 µg/ml



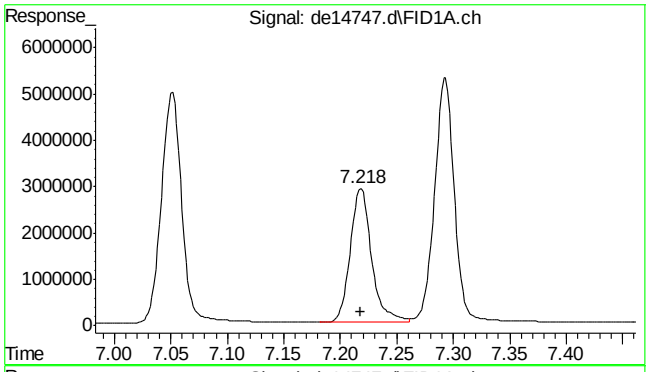

#5 acenaphthylene

R.T.: 7.052 min
Delta R.T.: 0.000 min
Response: 6274619
Conc: 49.59 µg/ml



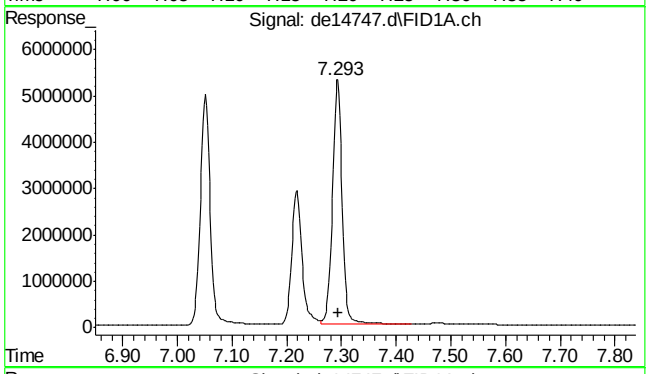


SGS ACCUTEST MC46487



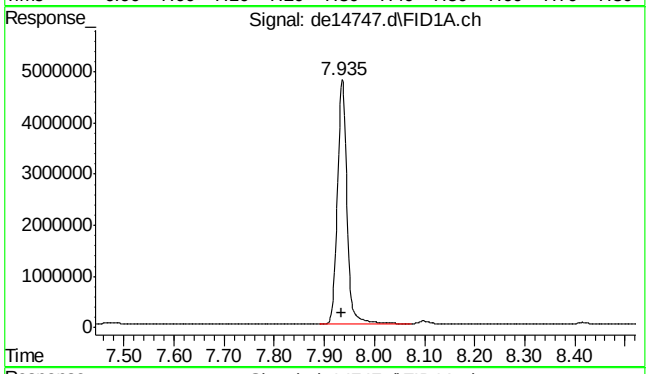

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 3800974
Conc: 53.01 µg/ml



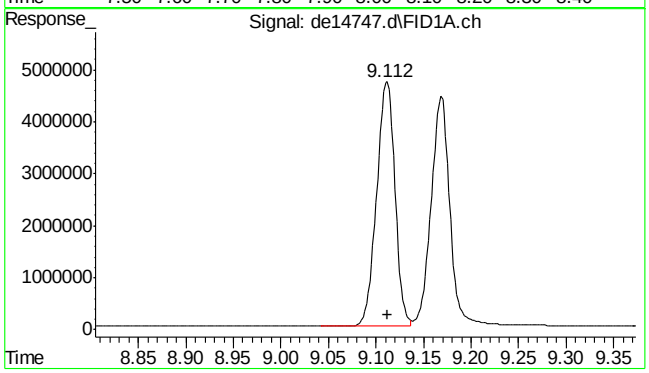

#7 acenaphthene

R.T.: 7.293 min
Delta R.T.: 0.000 min
Response: 6499290
Conc: 46.66 µg/ml




#8 fluorene

R.T.: 7.935 min
Delta R.T.: 0.000 min
Response: 6367876
Conc: 49.57 µg/ml



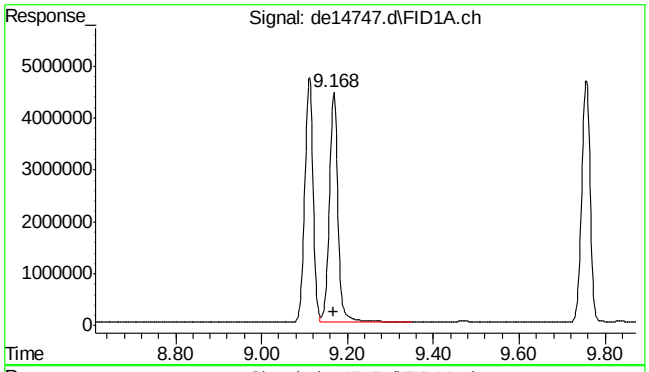

#9 phenanthrene

R.T.: 9.112 min
Delta R.T.: 0.000 min
Response: 6306351
Conc: 50.48 µg/ml



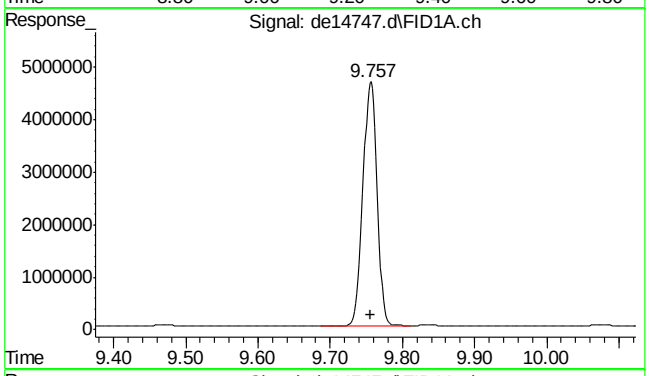


SGS ACCUTEST MC46487



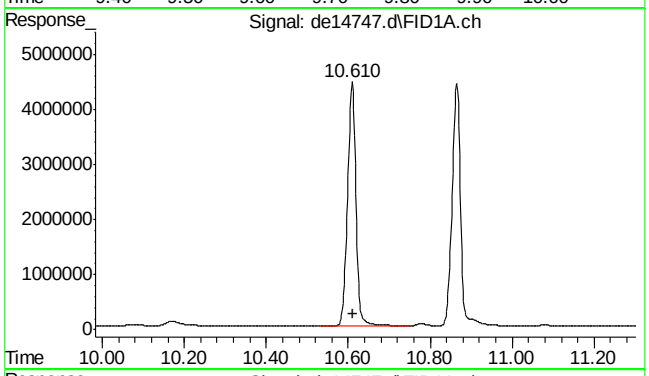

#10 anthracene

R.T.: 9.168 min
Delta R.T.: 0.000 min
Response: 6199745
Conc: 46.60 µg/ml



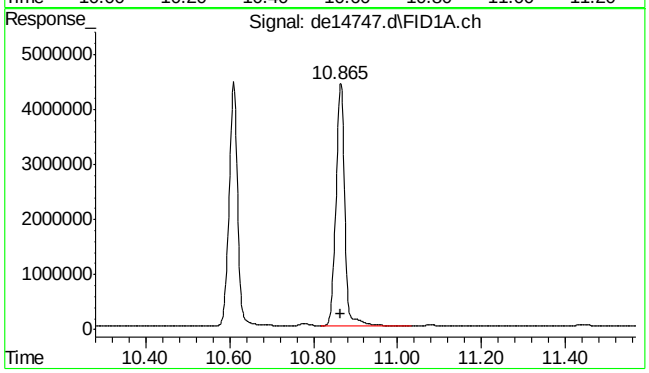

#11 o-terphenyl

R.T.: 9.757 min
Delta R.T.: 0.000 min
Response: 6387110
Conc: 48.27 µg/ml




#12 fluoranthene

R.T.: 10.610 min
Delta R.T.: 0.000 min
Response: 6256245
Conc: 48.78 µg/ml




#13 pyrene

R.T.: 10.865 min
Delta R.T.: 0.000 min
Response: 6405860
Conc: 48.77 µg/ml





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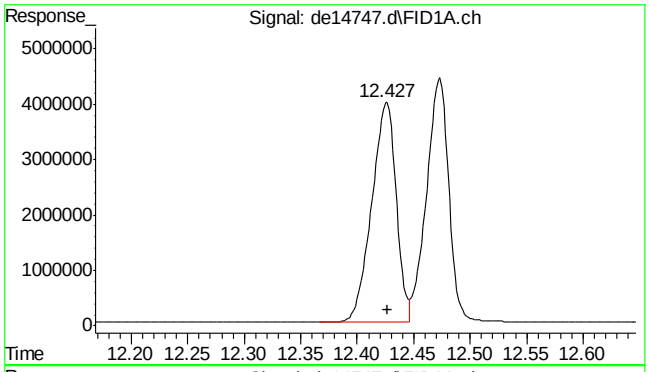
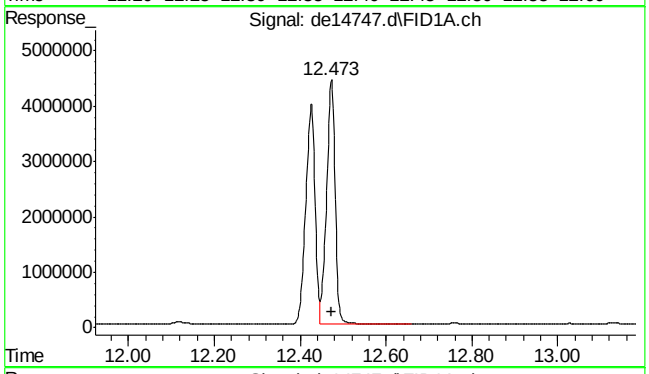


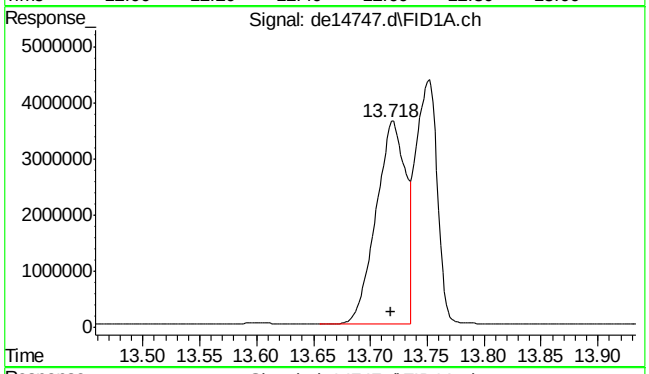

#14 benzo(a)anthracene

R.T.: 12.427 min
Delta R.T.: 0.000 min
Response: 6027042
Conc: 49.61 µg/ml



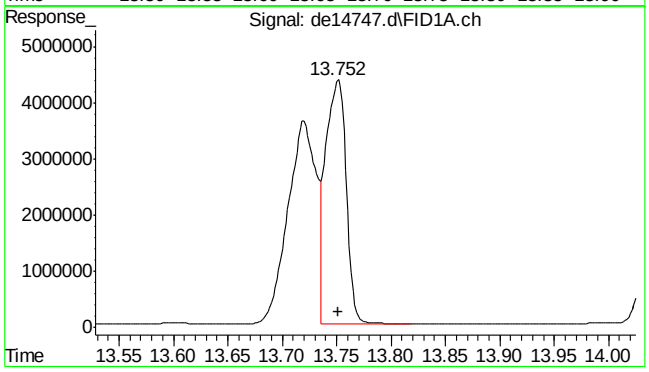

#15 chrysene

R.T.: 12.473 min
Delta R.T.: 0.000 min
Response: 6068921
Conc: 47.54 µg/ml




#16 benzo(B)fluoranthene

R.T.: 13.718 min
Delta R.T.: 0.000 min
Response: 6558504
Conc: 55.39 µg/ml m



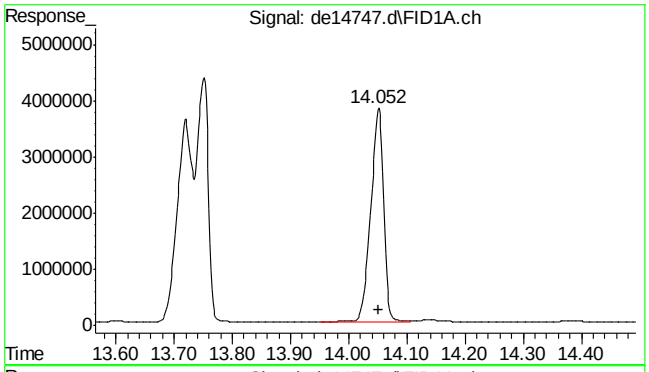

#17 benzo(k)fluoranthene

R.T.: 13.752 min
Delta R.T.: 0.000 min
Response: 5665258
Conc: 44.25 µg/ml m



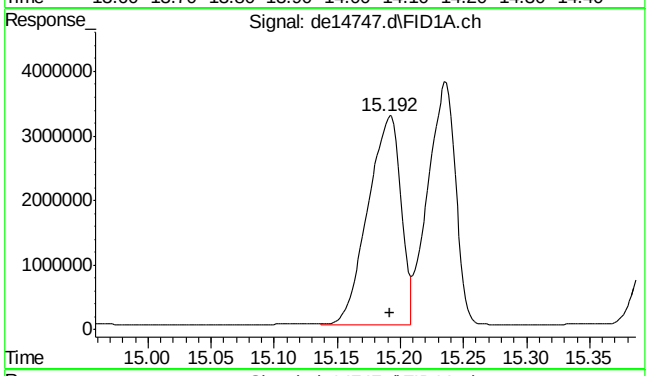


SGS ACCUTEST MC46487



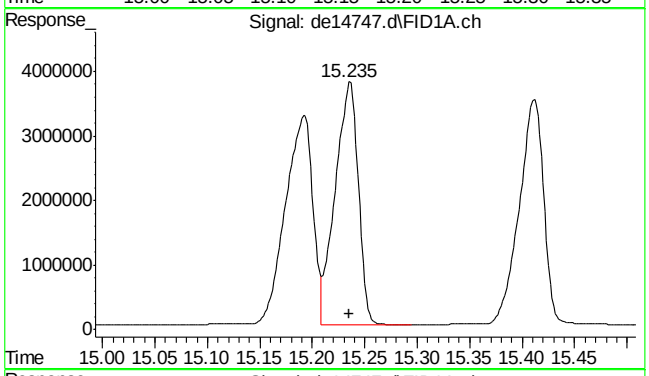

#18 benzo(a)pyrene

R.T.: 14.052 min
Delta R.T.: 0.000 min
Response: 5821489
Conc: 49.35 µg/ml



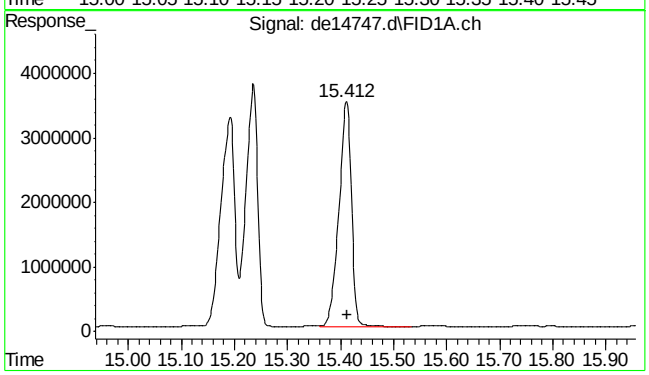

#19 indeno(1,2,3-cd)pyrene

R.T.: 15.192 min
Delta R.T.: 0.000 min
Response: 5919780
Conc: 50.58 µg/ml m




#20 dibenzo(ah)anthracene

R.T.: 15.235 min
Delta R.T.: 0.000 min
Response: 5740992
Conc: 50.67 µg/ml m



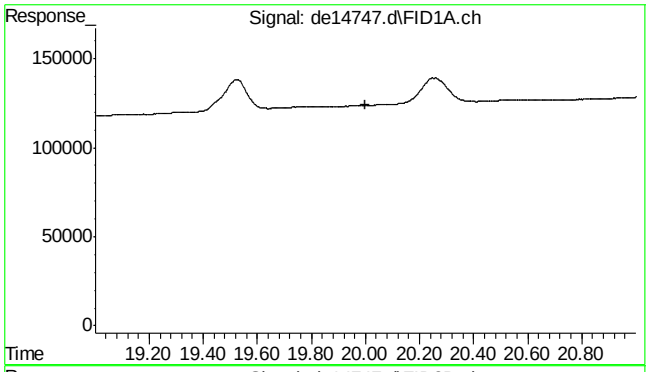

#21 benzo(ghi)perylene

R.T.: 15.412 min
Delta R.T.: 0.000 min
Response: 5713608
Conc: 50.35 µg/ml



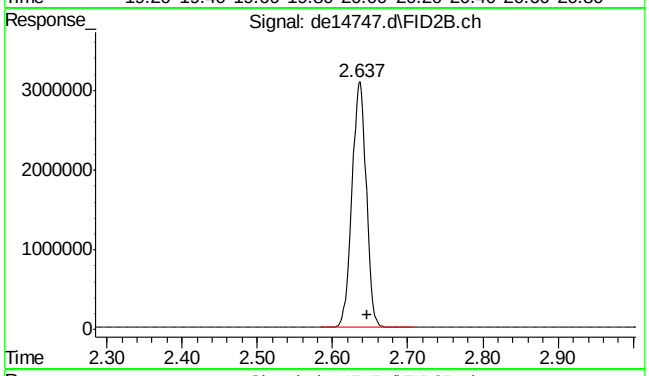


SGS ACCUTEST MC46487



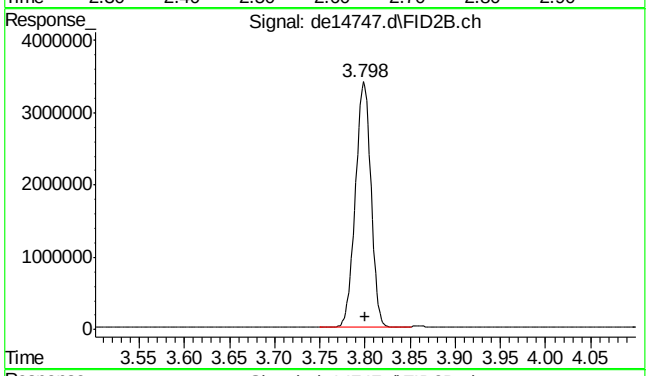

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



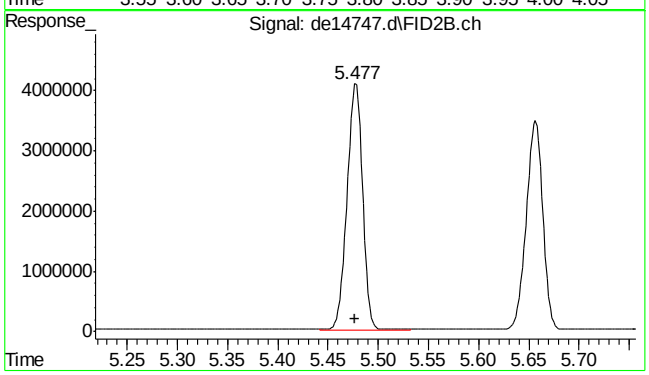

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4056799
Conc: 48.12 µg/ml m




#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4099307
Conc: 48.62 µg/ml




#27 naphthalene #2

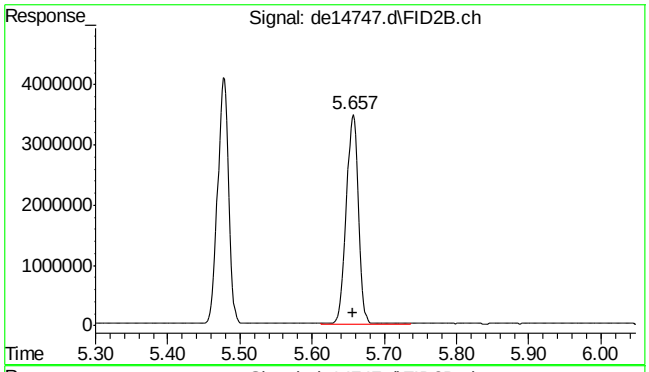
R.T.: 5.477 min
Delta R.T.: 0.000 min
Response: 4364462
Conc: 48.01 µg/ml

9.4.9

9

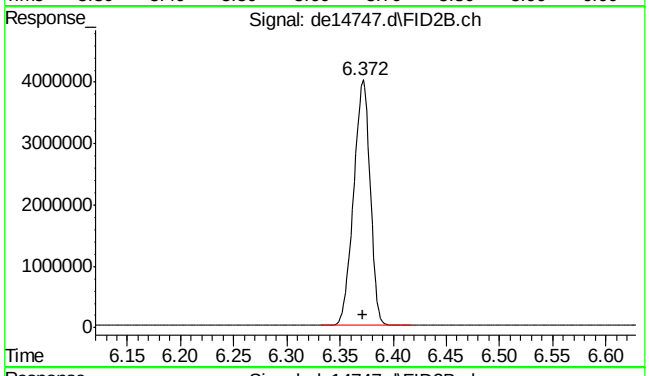


SGS ACCUTEST MC46487



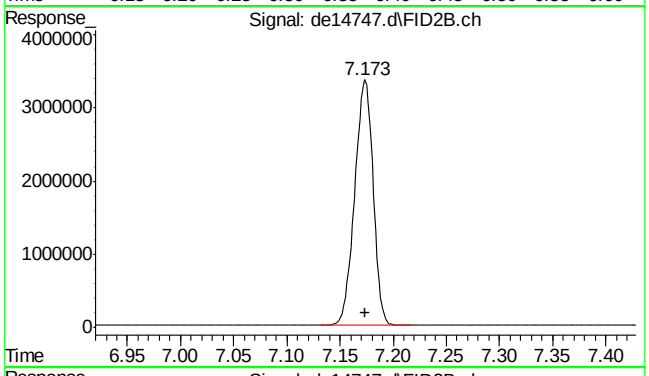

#28 c-12

R.T.: 5.657 min
Delta R.T.: 0.000 min
Response: 4059457
Conc: 48.15 µg/ml



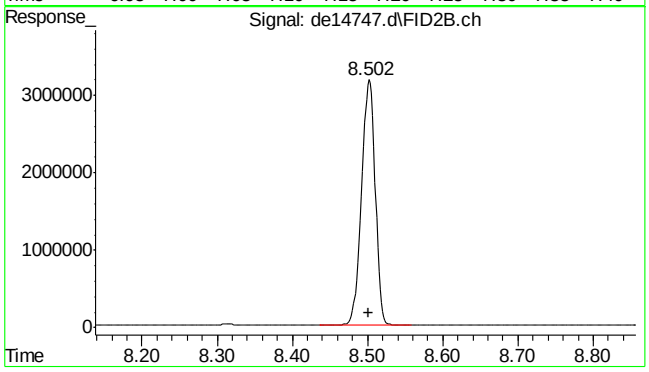

#29 2-methylnaphthalene #2

R.T.: 6.372 min
Delta R.T.: 0.000 min
Response: 4341315
Conc: 48.27 µg/ml




#30 c-14

R.T.: 7.173 min
Delta R.T.: 0.000 min
Response: 4023681
Conc: 47.73 µg/ml



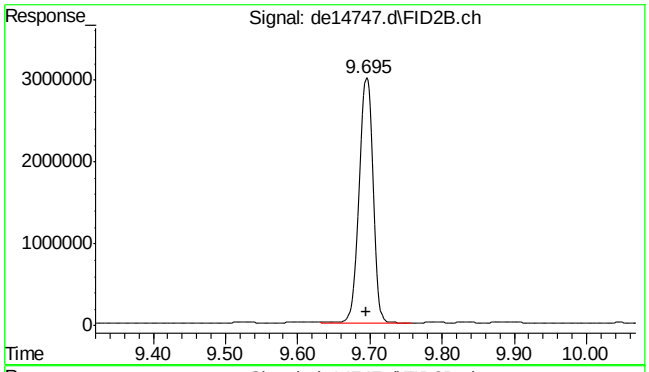

#31 c-16

R.T.: 8.502 min
Delta R.T.: 0.000 min
Response: 3986039
Conc: 47.28 µg/ml



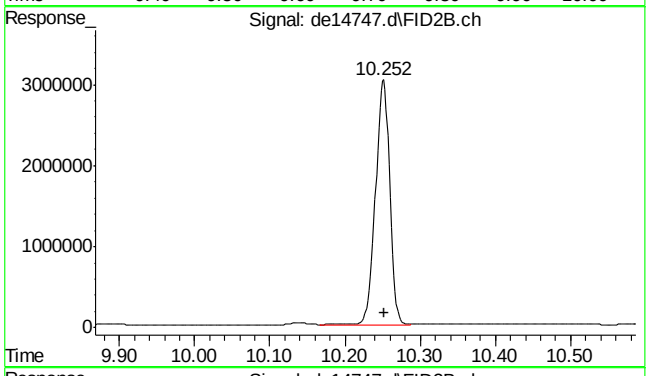


SGS ACCUTEST MC46487



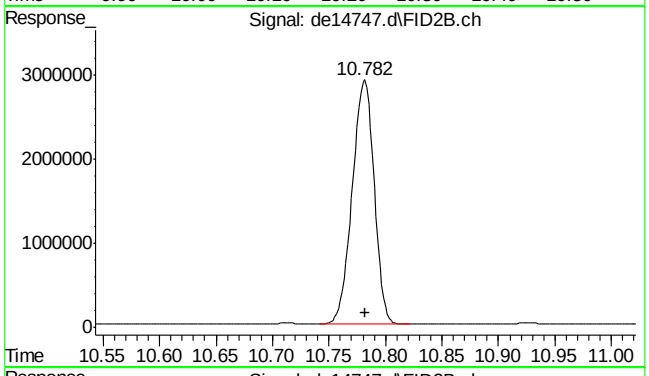

#32 c-18

R.T.: 9.695 min
Delta R.T.: 0.000 min
Response: 4002798
Conc: 47.48 µg/ml



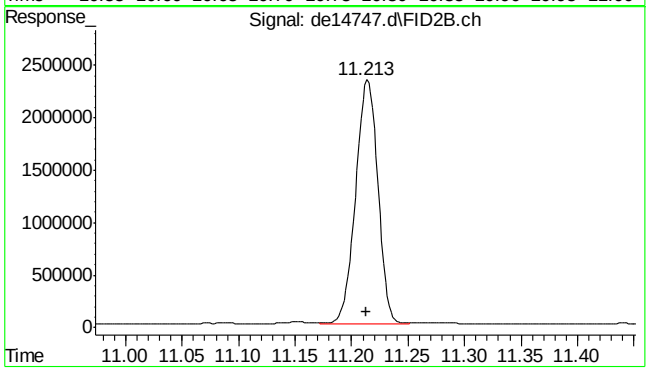

#33 c-19

R.T.: 10.252 min
Delta R.T.: 0.000 min
Response: 3982907
Conc: 51.18 µg/ml




#34 c-20

R.T.: 10.782 min
Delta R.T.: 0.000 min
Response: 3915603
Conc: 50.31 µg/ml




#35 1-chlorooctadecane

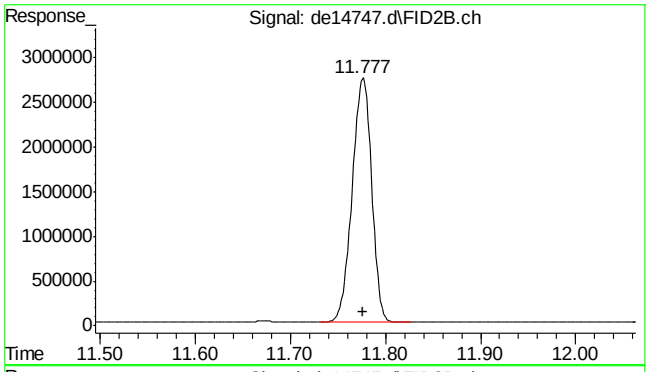
R.T.: 11.213 min
Delta R.T.: 0.000 min
Response: 3160284
Conc: 48.51 µg/ml

9.4.9

9

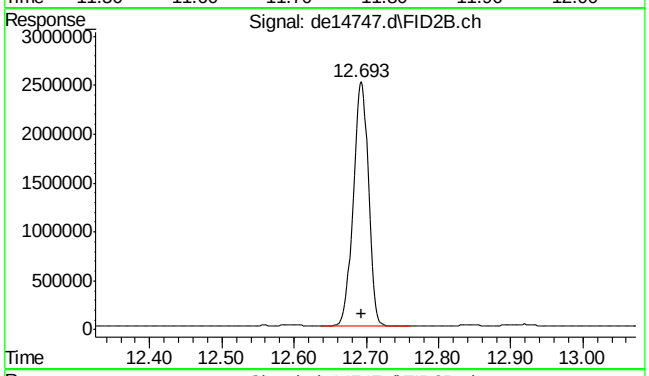


SGS ACCUTEST MC46487



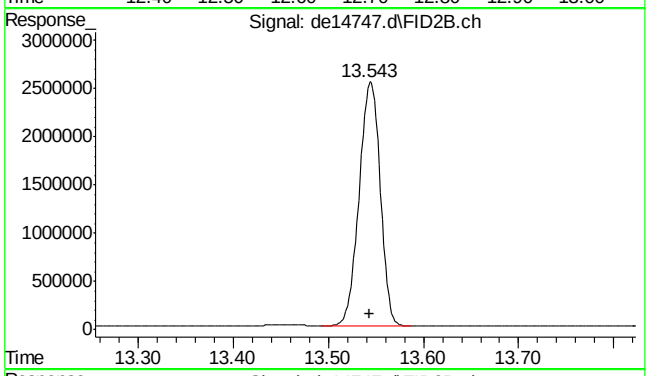

#36 c-22

R.T.: 11.777 min
Delta R.T.: 0.000 min
Response: 3894763
Conc: 50.05 µg/ml



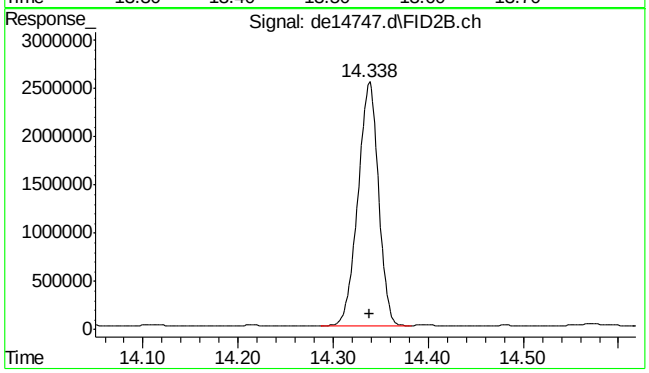

#37 c-24

R.T.: 12.693 min
Delta R.T.: 0.000 min
Response: 3636194
Conc: 46.72 µg/ml




#38 c-26

R.T.: 13.543 min
Delta R.T.: 0.000 min
Response: 3890368
Conc: 49.99 µg/ml



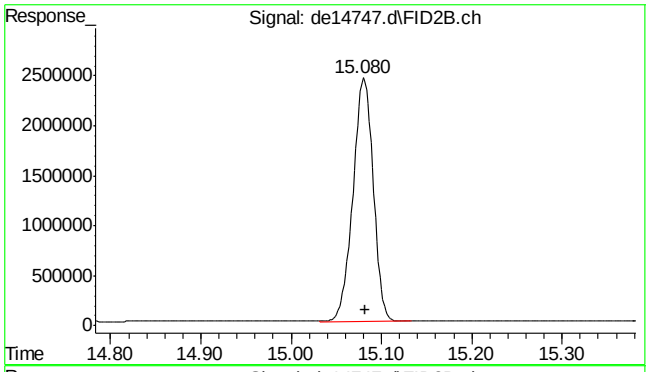

#39 c-28

R.T.: 14.338 min
Delta R.T.: 0.000 min
Response: 3774958
Conc: 48.51 µg/ml



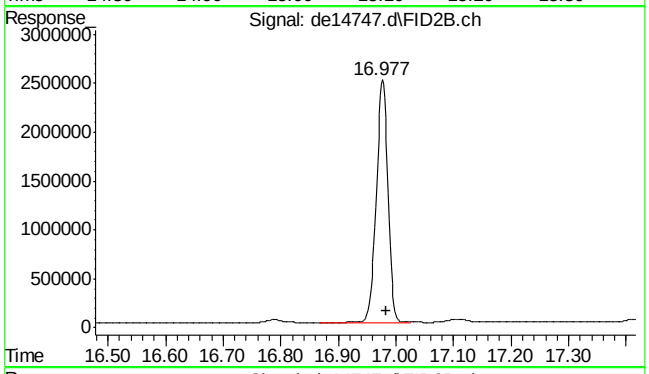


SGS ACCUTEST MC46487



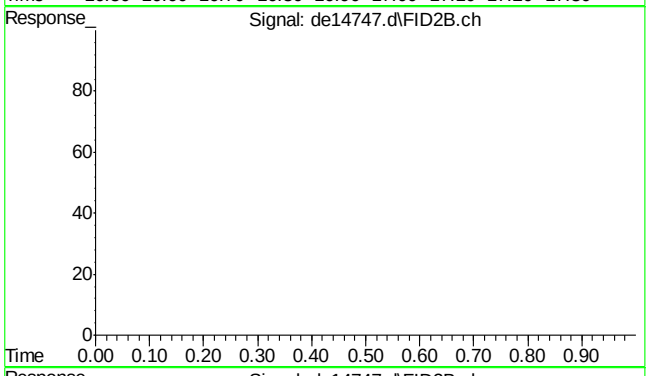

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 3829303
Conc: 49.20 µg/ml



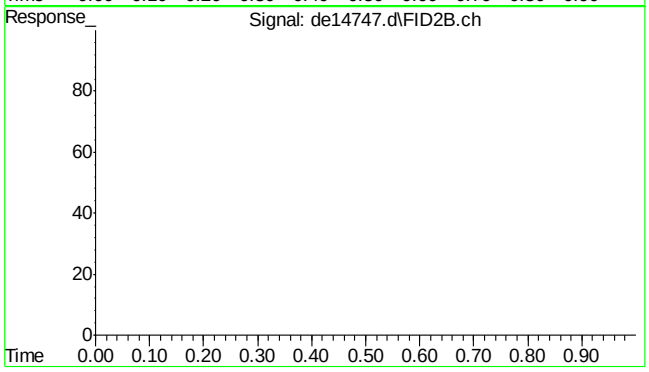

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3472319
Conc: 44.62 µg/ml m




#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



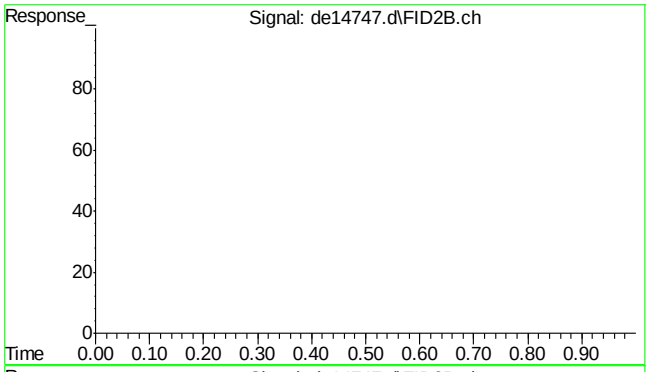

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



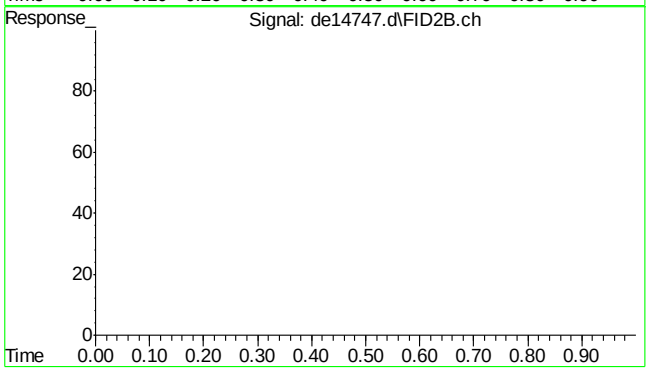


SGS ACCUTEST MC46487




#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.





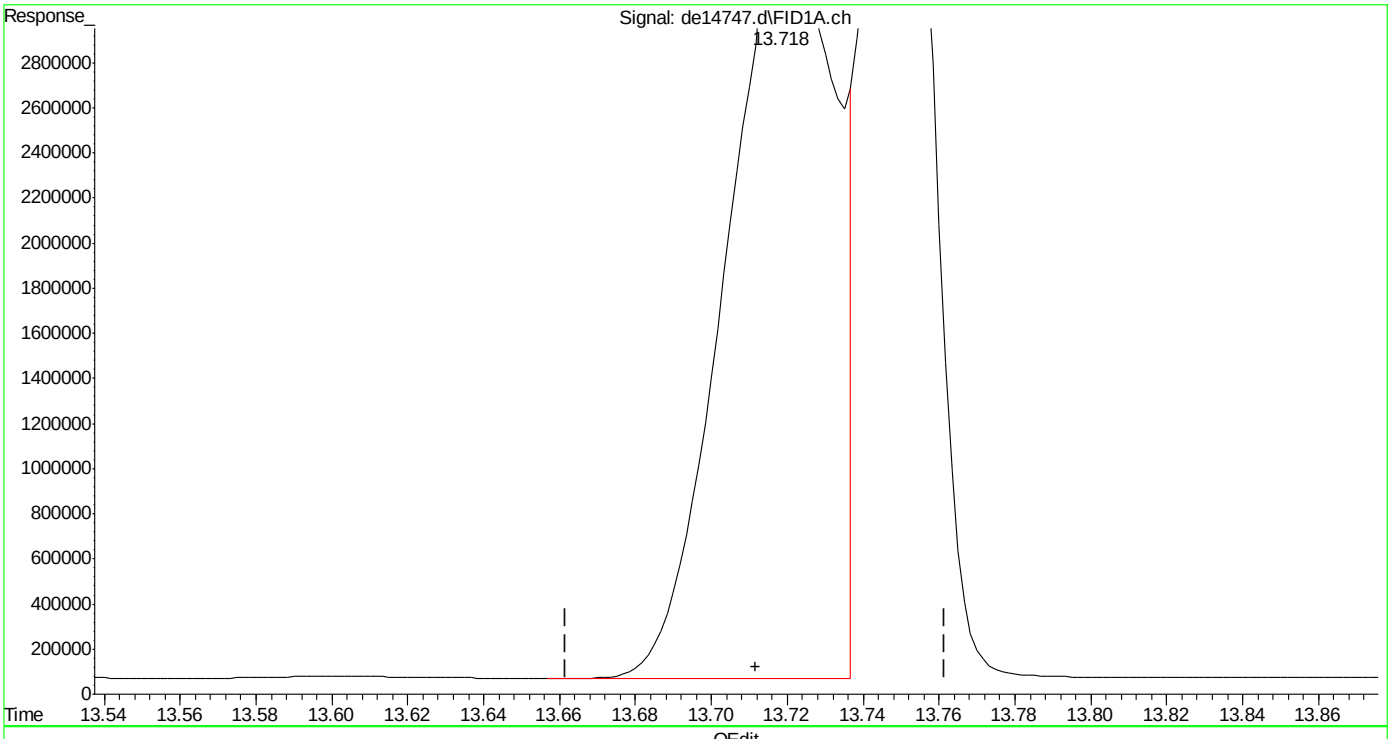
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(16) benzo(B)fluoranthene
13.718min 57.587 µg/ml
response 6818082

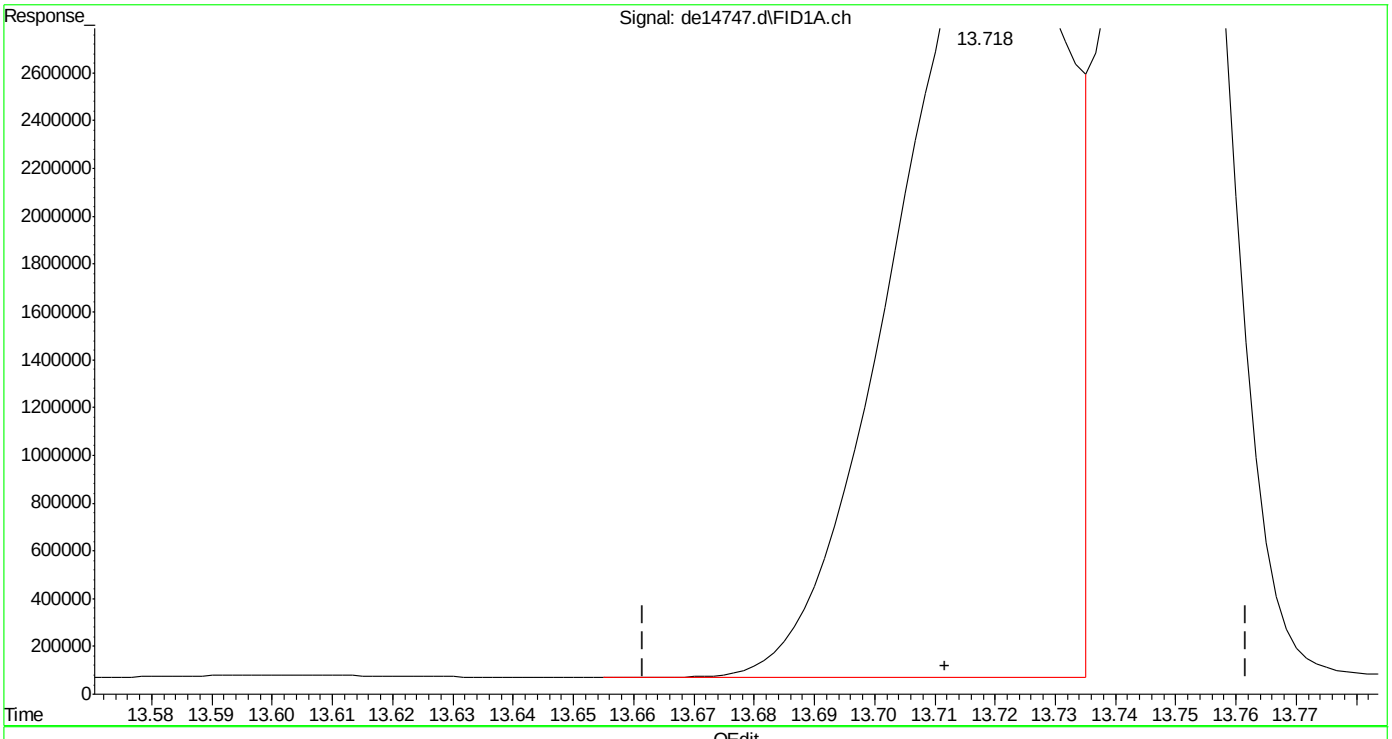
(+) = Expected Retention Time

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   4:13 pm
Operator  : thomasa
Sample    : cc815-50,gde819
Misc      : op47862,gde819,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title  : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj.     :
Signal #1 Phase :                    Signal #2 Phase:
Signal #1 Info  :                    Signal #2 Info :
```




(16) benzo(B)fluoranthene

13.718min 55.411 µg/ml m

response 6560443

(+) = Expected Retention Time

EPH160627W.M Tue Jun 28 16:36:06 2016





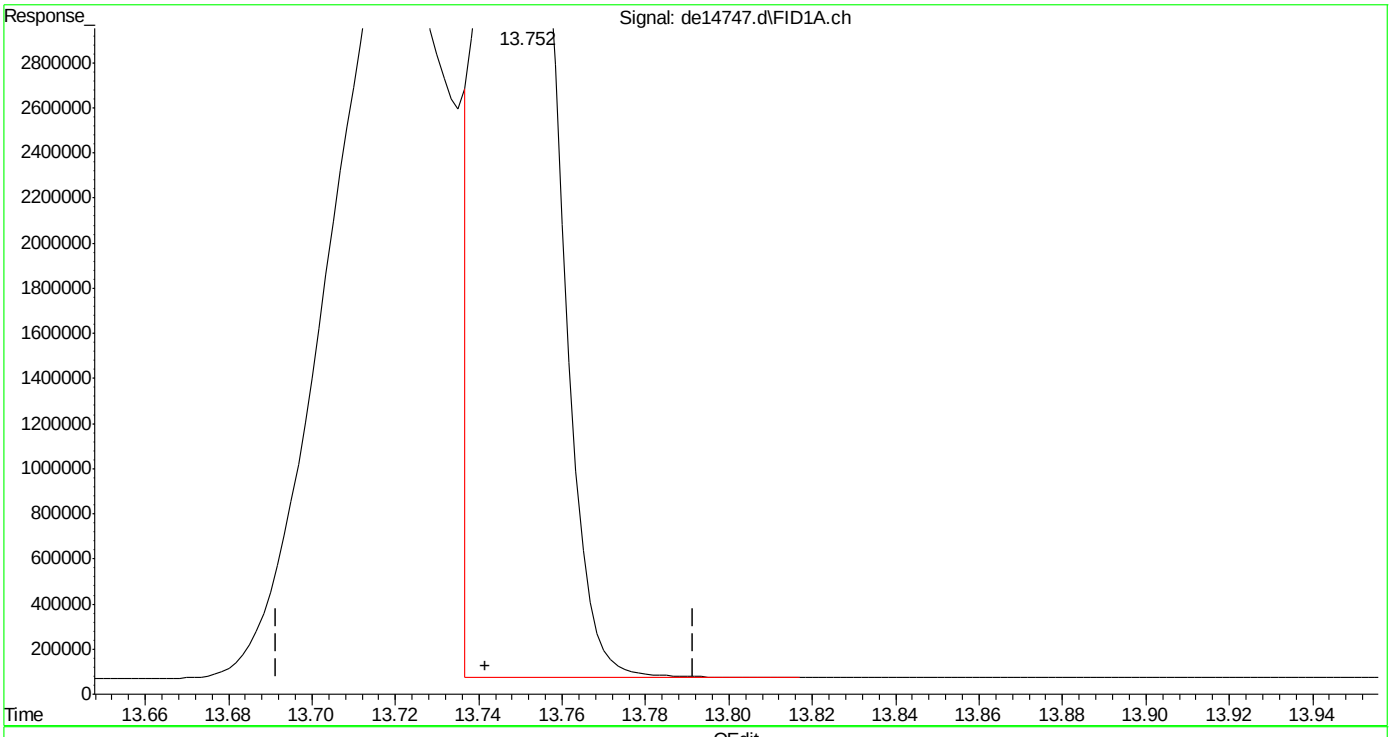
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(17) benzo(k)fluoranthene
13.752min 42.101 µg/ml
response 5390156

(+) = Expected Retention Time

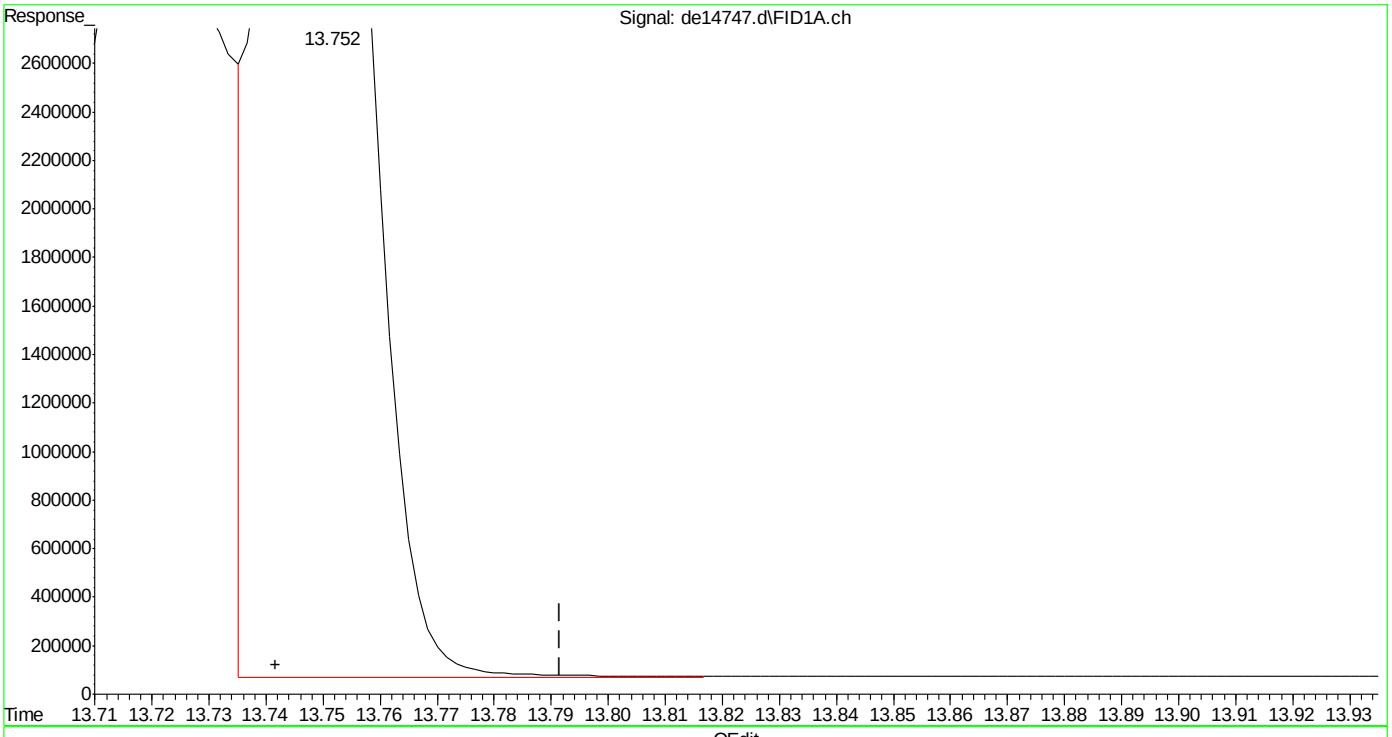
EPH160627W.M Tue Jun 28 16:36:10 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(17) benzo(k)fluoranthene
13.752min 44.245 µg/ml m
response 5664746

(+) = Expected Retention Time
EPH160627W.M Tue Jun 28 16:36:26 2016





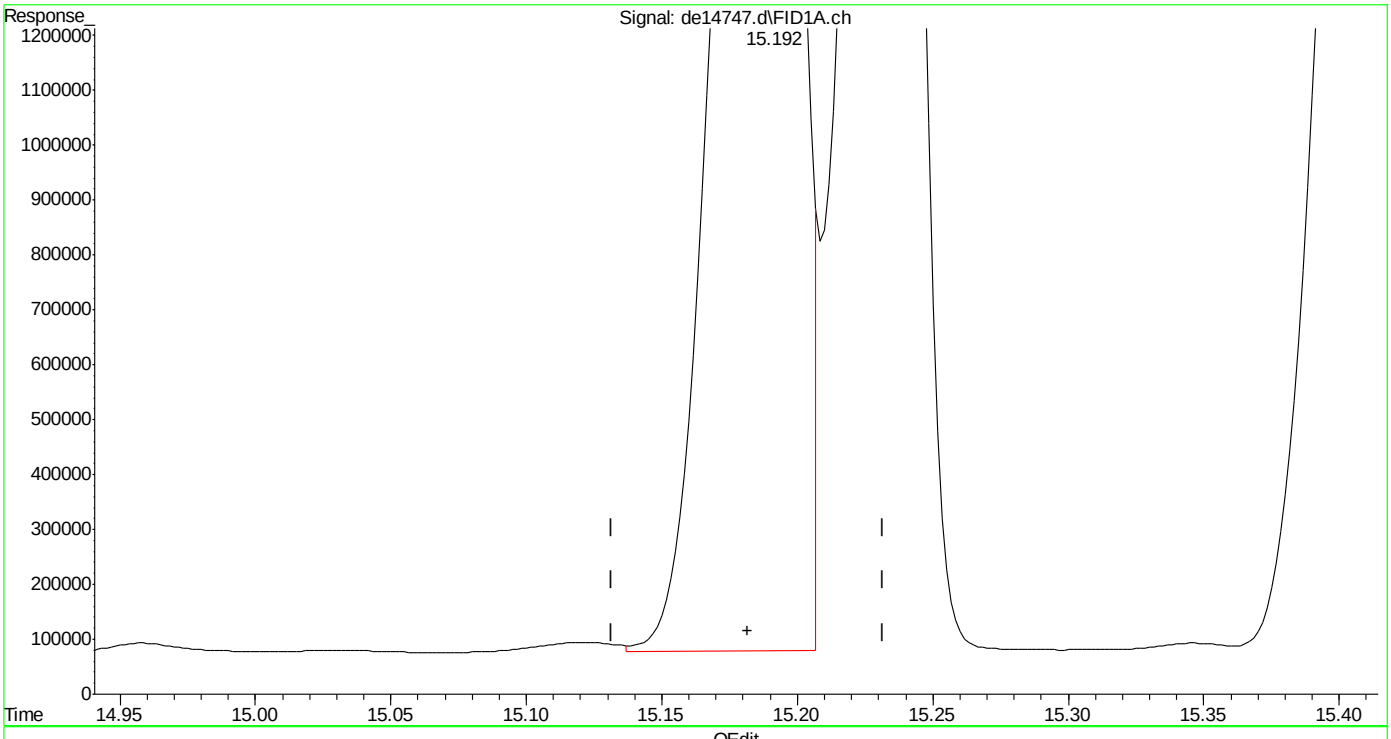
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(19) indeno(1,2,3-cd)pyrene
15.192min 49.835 µg/ml
response 5832987

(+) = Expected Retention Time
EPH160627W.M Tue Jun 28 16:36:31 2016





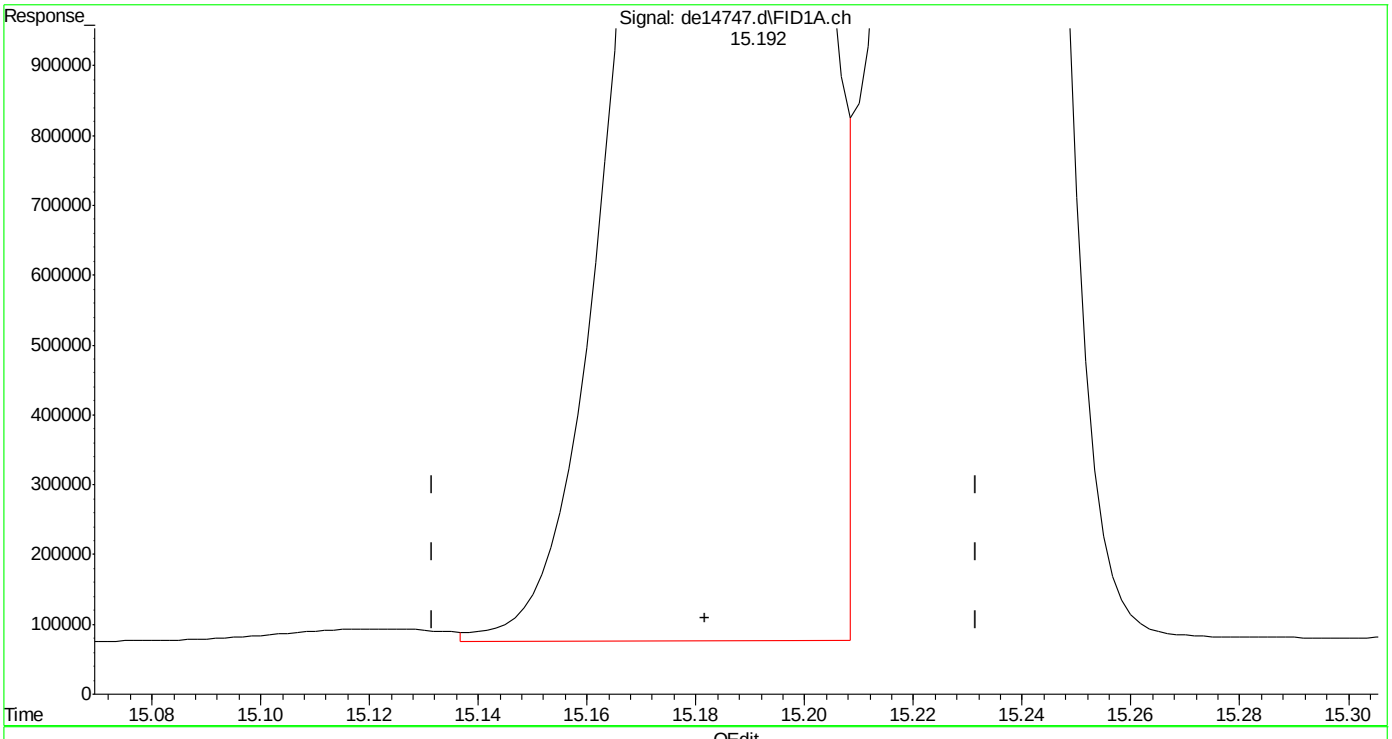
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(19) indeno(1,2,3-cd)pyrene
15.192min 50.569 µg/ml m
response 5918869

(+) = Expected Retention Time
EPH160627W.M Tue Jun 28 16:36:54 2016







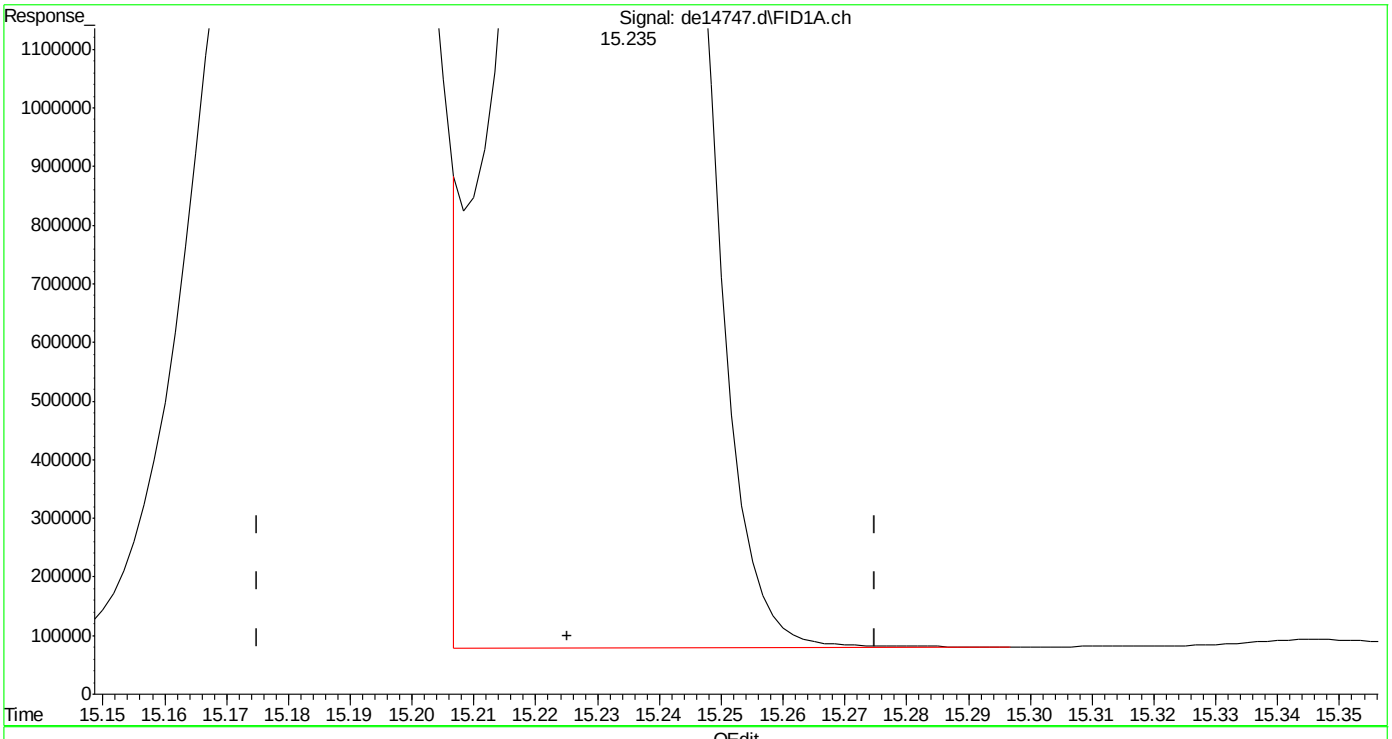
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :




(20) dibenzo(ah)anthracene
15.235min 51.106 µg/ml
response 5790642

(+) = Expected Retention Time
EPH160627W.M Tue Jun 28 16:36:59 2016







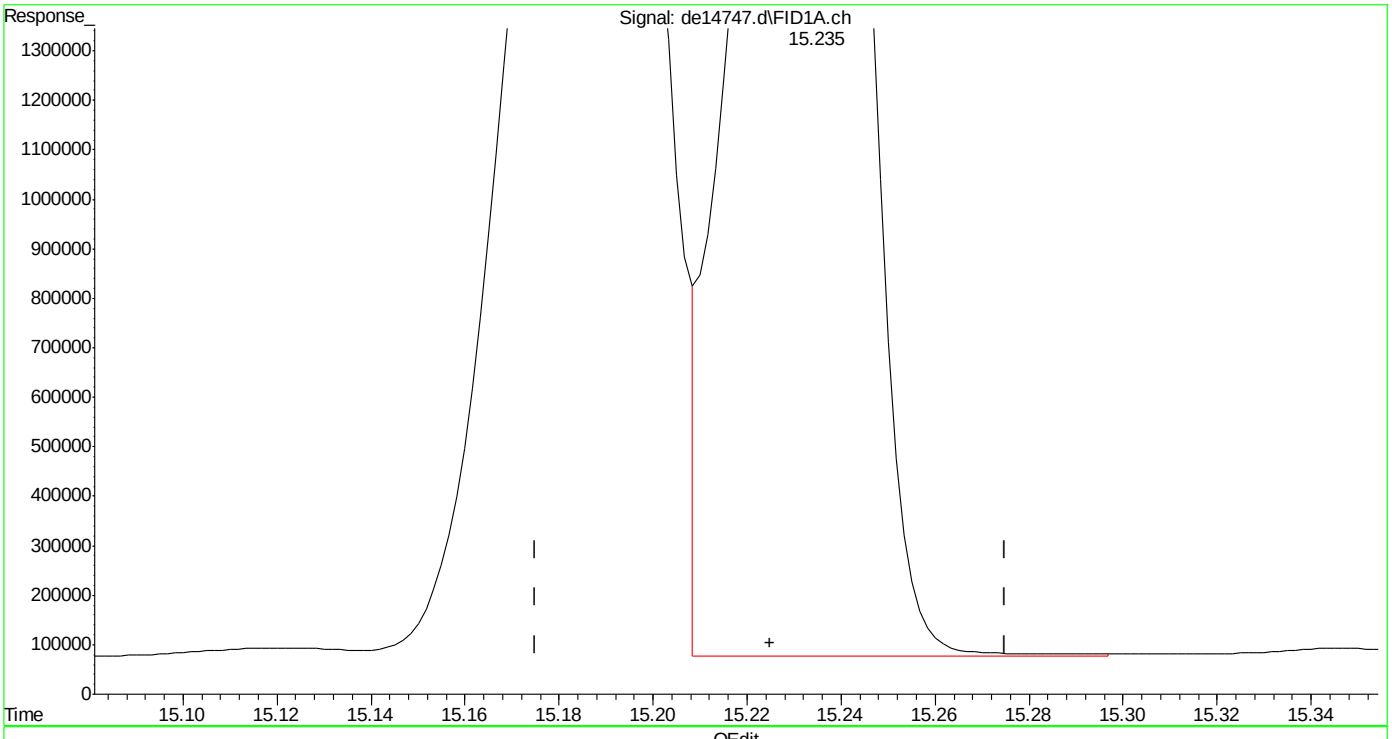
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:35:35 2016
Quant Method : C:\msdchem\1\METHODS\EPH160627W.M
Quant Title : BMAEPH-working method
QLast Update : Mon Jun 27 10:34:35 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase :  Signal #2 Phase:
Signal #1 Info :  Signal #2 Info :




(20) dibenzo(ah)anthracene
15.235min 50.612 µg/ml m
response 5734712

(+) = Expected Retention Time
EPH160627W.M Tue Jun 28 16:37:12 2016







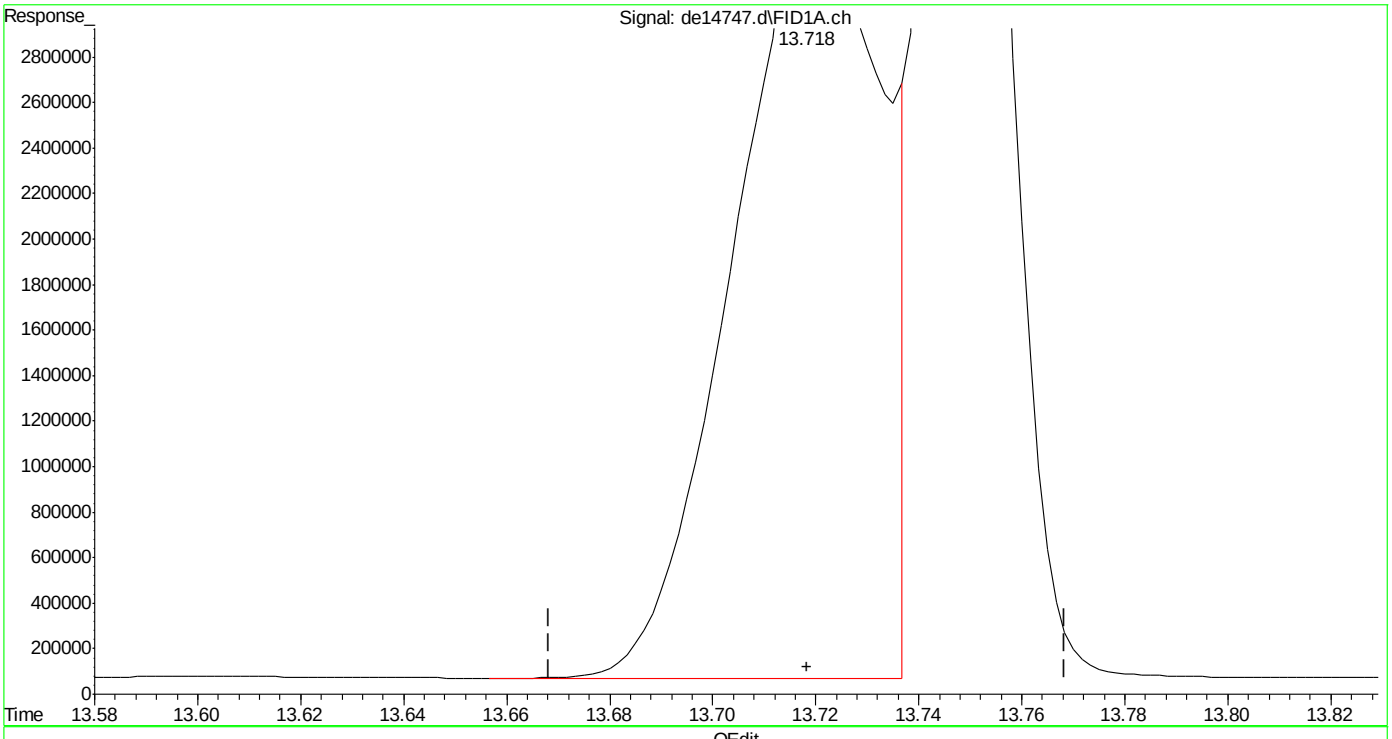
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

```
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On    : 28 Jun 2016   4:13 pm
Operator  : thomasa
Sample    : cc815-50,gde819
Misc      : op47862,gde819,1000,,,2,,w
ALS Vial  : 142   Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title  : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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

13.718min 57.587 µg/ml

response 6818082

(+) = Expected Retention Time

EPH160628W.M Tue Jun 28 16:41:27 2016







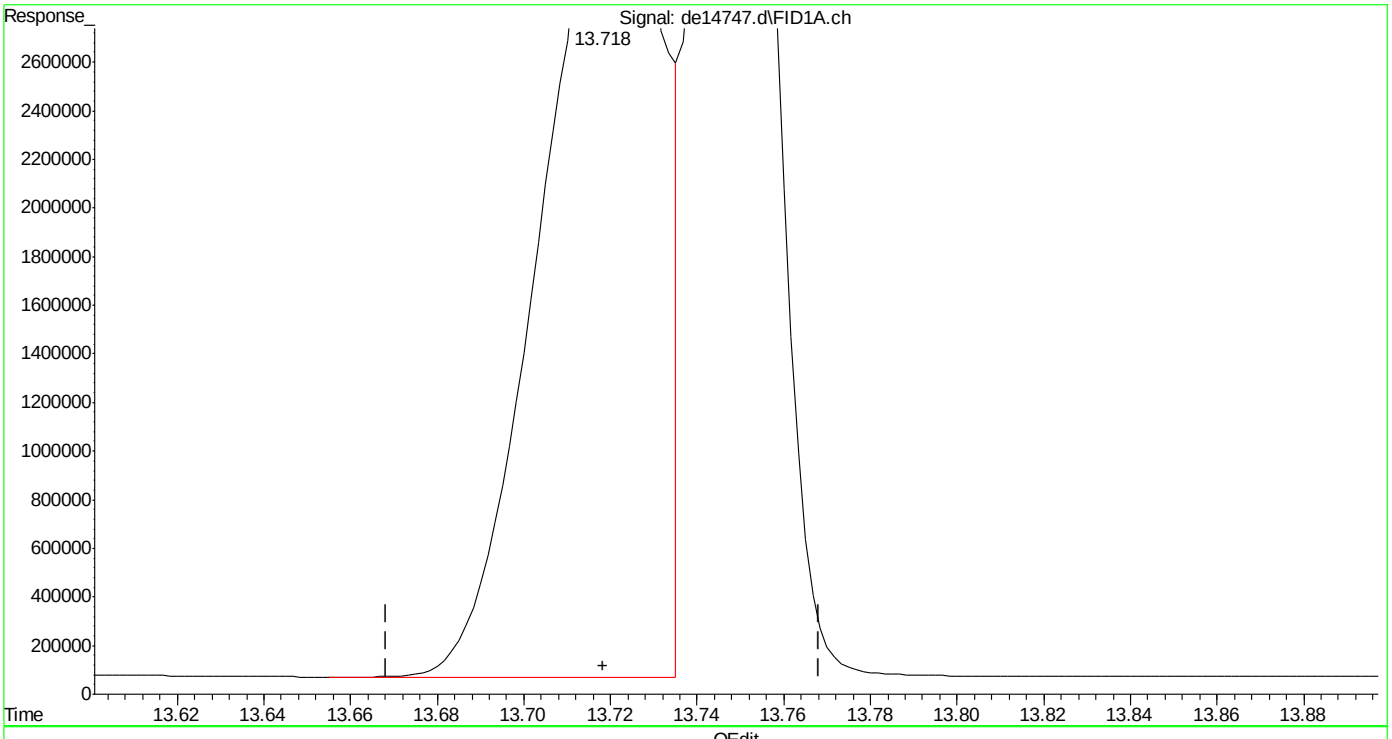
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
13.718min 55.394 µg/ml m
response 6558504

(+) = Expected Retention Time
EPH160628W.M Tue Jun 28 16:41:43 2016

Page: 1



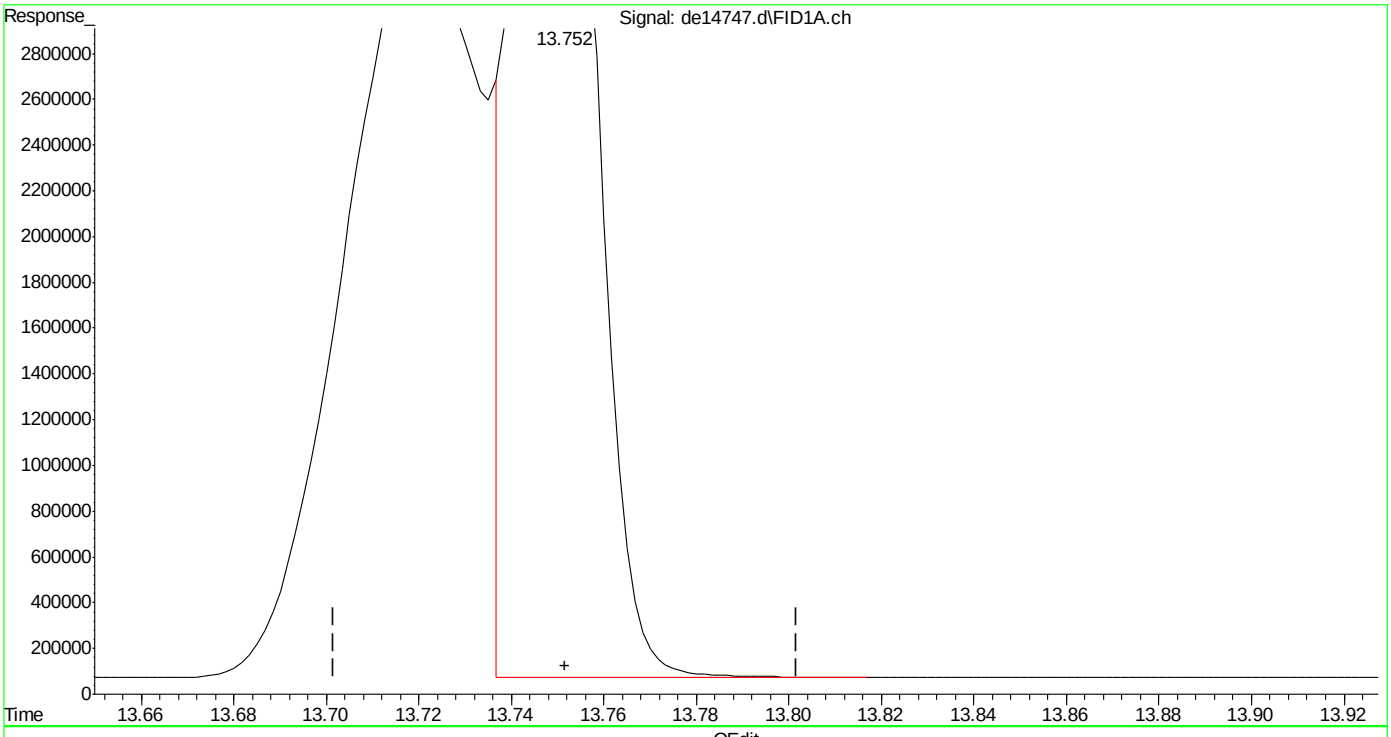
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
13.752min 42.101 µg/ml
response 5390156

(+) = Expected Retention Time





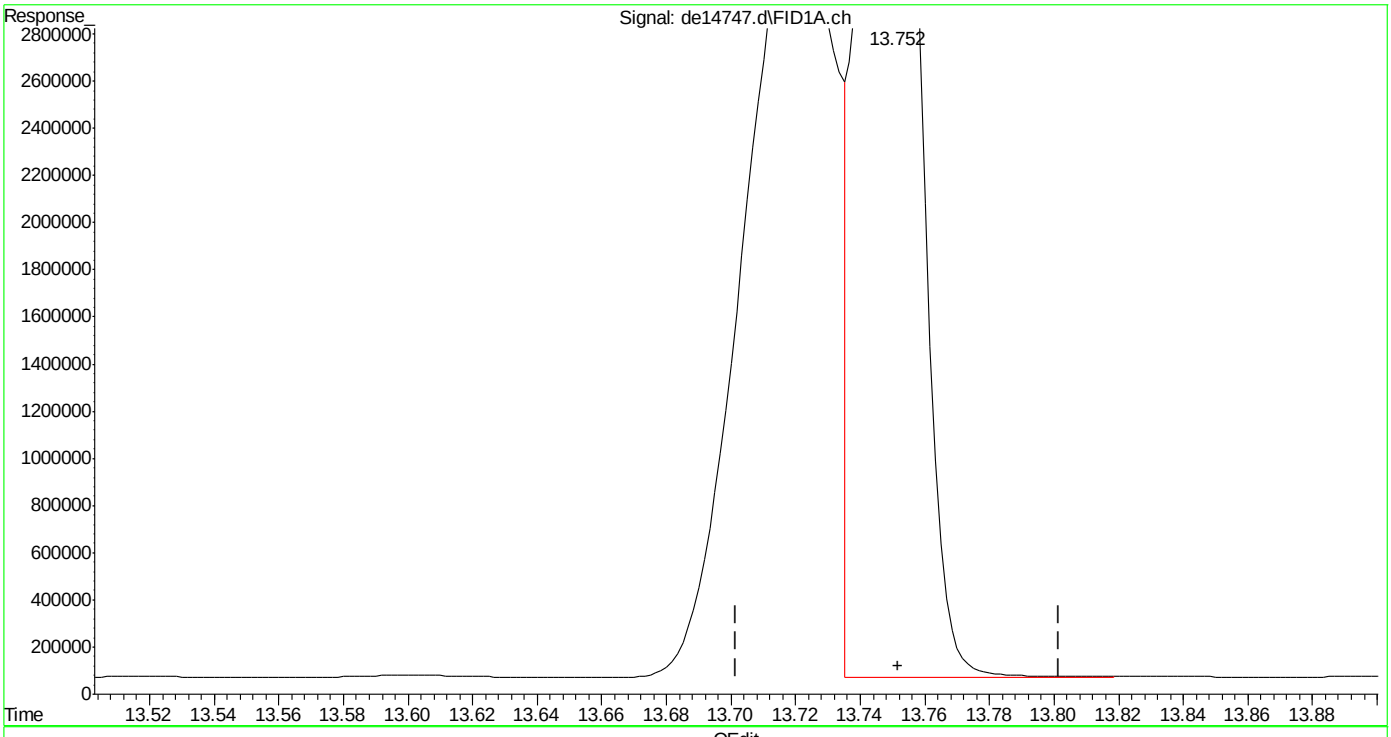
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
13.752min 44.249 µg/ml m
response 5665258

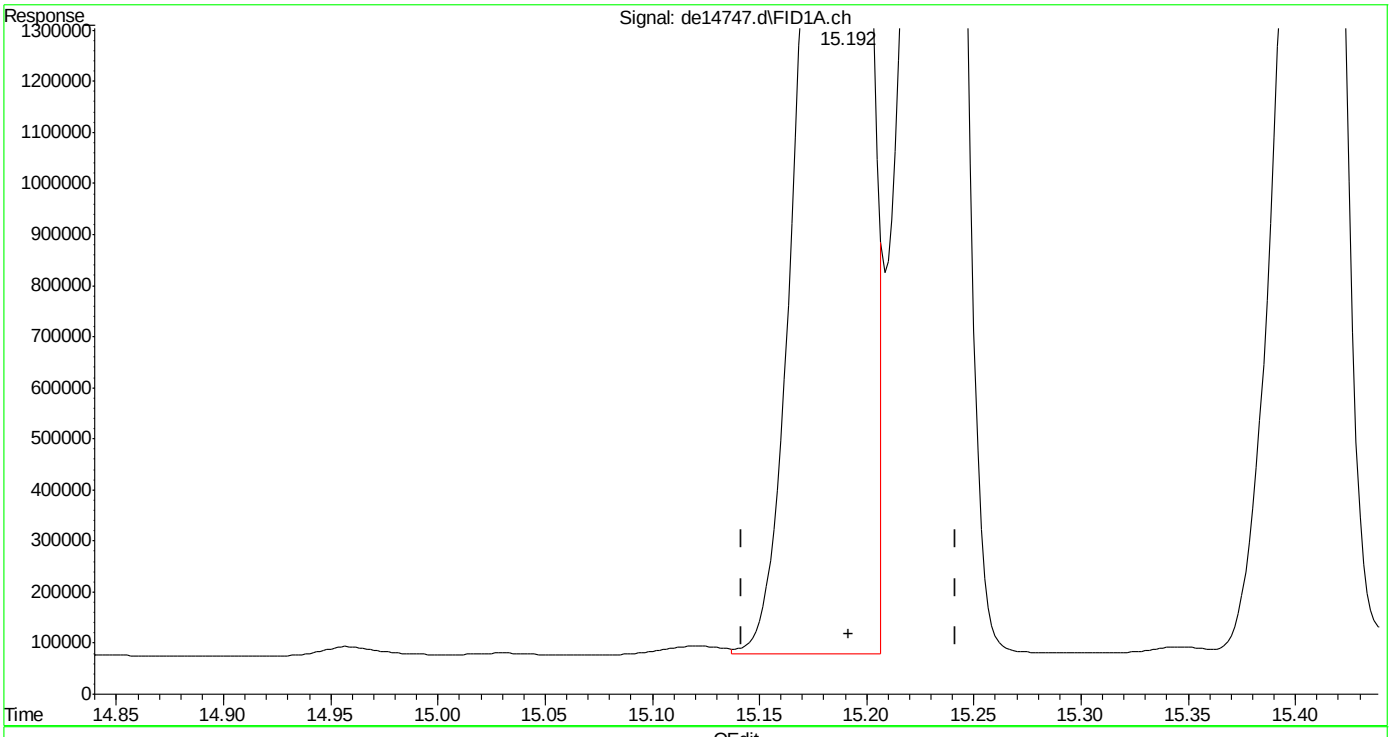
(+) = Expected Retention Time

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
15.192min 49.835 µg/ml
response 5832987

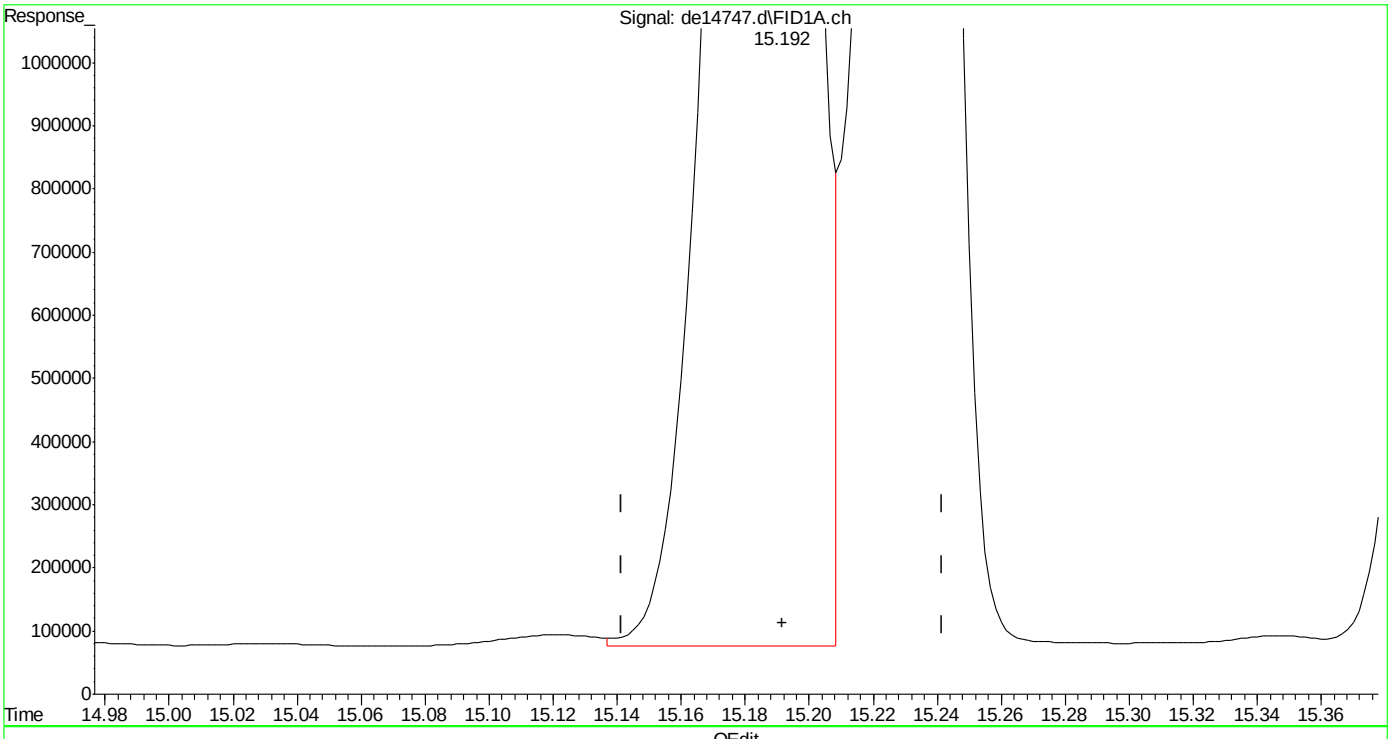
(+) = Expected Retention Time
EPH160628W.M Tue Jun 28 16:42:04 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
15.192min 50.576 µg/ml m
response 5919780

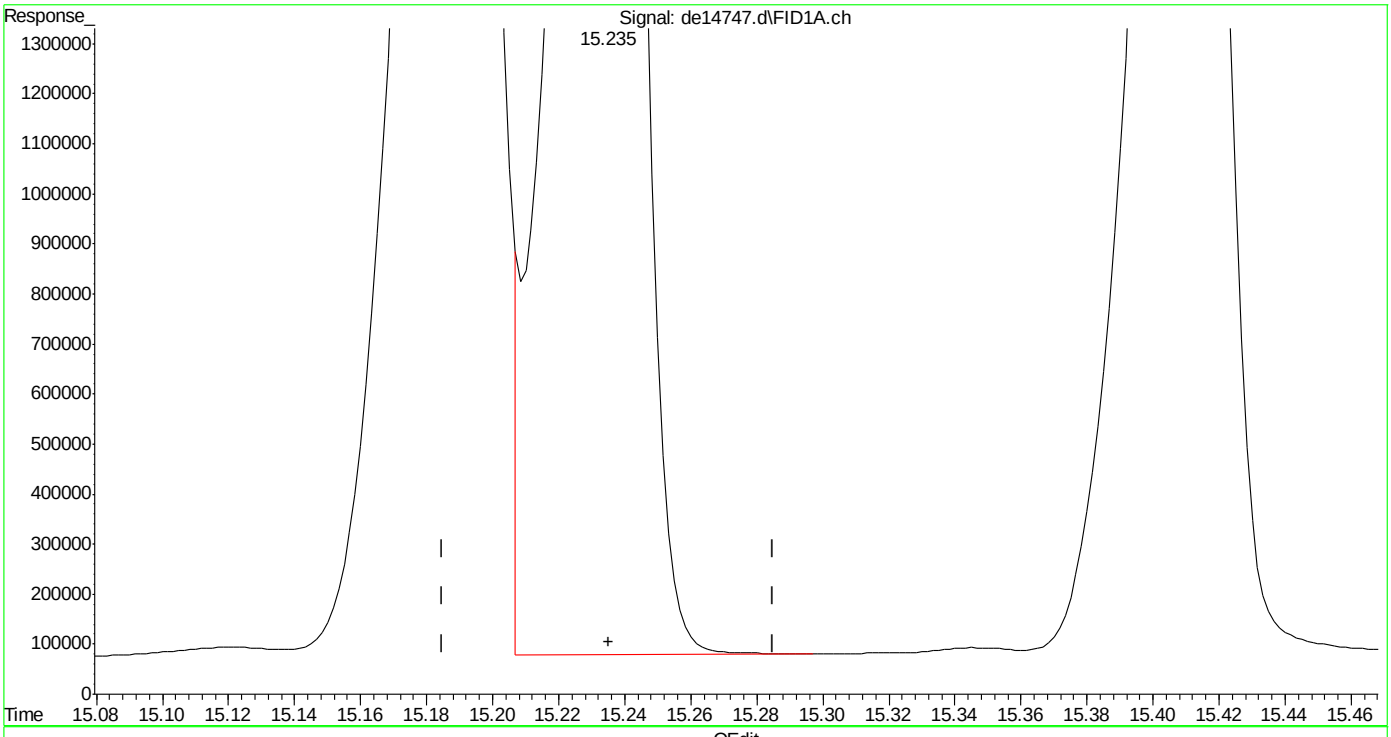
(+) = Expected Retention Time
EPH160628W.M Tue Jun 28 16:42:26 2016

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
15.235min 51.106 µg/ml
response 5790642

(+) = Expected Retention Time
EPH160628W.M Tue Jun 28 16:42:30 2016





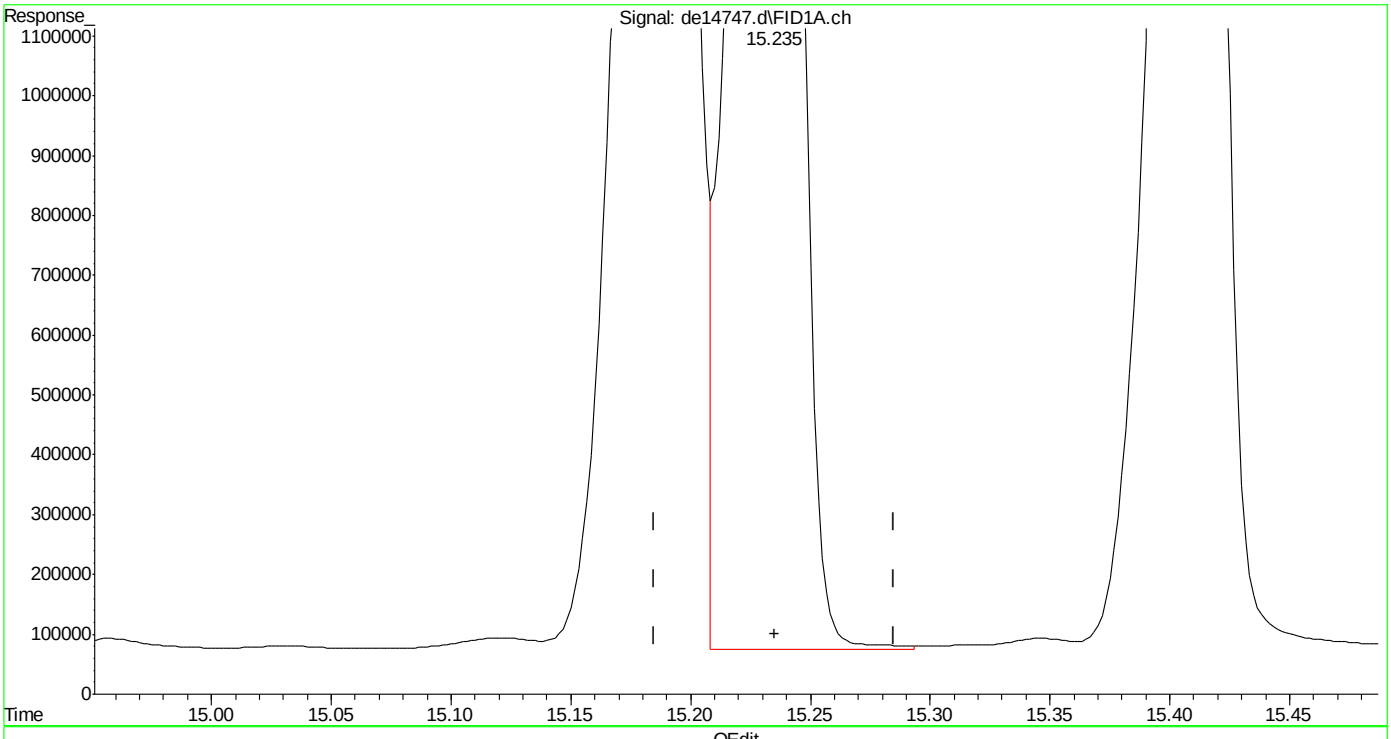
SGS ACCUTEST MC46487

Quantitation Report (Qedit)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14747.d
Signal(s) : Signal #1: FID1A.ch  Signal #2: FID2B.ch
Acq On : 28 Jun 2016  4:13 pm
Operator : thomasa
Sample : cc815-50,gde819
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142  Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 28 16:41:15 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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
15.235min 50.667 µg/ml m
response 5740992

(+) = Expected Retention Time
EPH160628W.M Tue Jun 28 16:42:47 2016

Page: 1



SGS ACCUTEST MC46487

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14757.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 8:50 pm
Operator : thomasa
Sample : ecc815-50,gde819 (Sig #1); cc815-50,gde819 (Sig #2)
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:51:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 5477551 | 47.849 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 239.24%# |
| 6) s | 2-bromonaphthalene | 7.218 | 3624238 | 50.545 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 252.72%# |
| 11) s | o-terphenyl | 9.757 | 6150259 | 46.485 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 232.43%# |
| 35) s | 1-chlorooctadecane | 11.215 | 3463459 | 53.159 µg/ml |
| Spiked Amount | 20.000 | Range | 8 - 28 | Recovery = 265.80%# |
| | **Target Compounds** | | | |
| 2) | naphthalene | 5.042 | 6081000 | 48.440 µg/ml |
| 3) | 2-methylnaphthalene | 5.942 | 6090891 | 48.285 µg/ml |
| 5) | acenaphthylene | 7.050 | 5992299 | 47.360 µg/ml |
| 7) | acenaphthene | 7.293 | 6245586 | 44.840 µg/ml |
| 8) | fluorene | 7.935 | 6121819 | 47.653 µg/ml |
| 9) | phenanthrene | 9.110 | 6075345 | 48.636 µg/ml |
| 10) | anthracene | 9.168 | 5940205 | 44.651 µg/ml |
| 12) | fluoranthene | 10.608 | 5985700 | 46.667 µg/ml |
| 13) | pyrene | 10.865 | 6131965 | 46.687 µg/ml |
| 14) | benzo(a)anthracene | 12.425 | 5698537 | 46.908 µg/ml |
| 15) | chrysene | 12.472 | 5794247 | 45.392 µg/ml |
| 16) | benzo(B)fluoranthene | 13.718 | 5569161 | 47.038 µg/ml |
| 17) | benzo(k)fluoranthene | 13.748 | 5932199 | 46.334 µg/ml |
| 18) | benzo(a)pyrene | 14.050 | 5463154 | 46.314 µg/ml |
| 19) | indeno(1,2,3-cd)pyrene | 15.187 | 5423569 | 46.337 µg/ml |
| 20) | dibenzo(ah)anthracene | 15.232 | 5325232 | 46.998 µg/ml |
| 21) | benzo(ghi)perylene | 15.410 | 5256617 | 46.324 µg/ml |
| 25) h | c-9 | 2.647 | 4448638 | 52.768 µg/mlm |
| 26) h | c-10 | 3.800 | 4508568 | 53.479 µg/ml |
| 27) | naphthalene #2 | 5.478 | 4812239 | 52.933 µg/ml |
| 28) | c-12 | 5.657 | 4438289 | 52.645 µg/ml |
| 29) | 2-methylnaphthalene #2 | 6.372 | 4761471 | 52.942 µg/ml |
| 30) | c-14 | 7.173 | 4407908 | 52.285 µg/ml |
| 31) | c-16 | 8.502 | 4383973 | 52.001 µg/ml |
| 32) | c-18 | 9.695 | 4378892 | 51.941 µg/ml |
| 33) | c-19 | 10.252 | 4348565 | 55.877 µg/ml |
| 34) | c-20 | 10.782 | 4265444 | 54.809 µg/ml |
| 36) | c-22 | 11.777 | 4259098 | 54.727 µg/ml |
| 37) | c-24 | 12.695 | 3952097 | 50.782 µg/ml |
| 38) | c-26 | 13.545 | 4208867 | 54.082 µg/ml |



SGS ACCUTEST MC46487

Quantitation Report (QT Reviewed)

Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14757.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 8:50 pm
Operator : thomasa
Sample : ecc815-50,gde819 (Sig #1); cc815-50,gde819 (Sig #2)
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:51:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 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 | 4097536 | 52.651 µg/ml |
| 40) h | c-30 | 15.082 | 4087337 | 52.520 µg/ml |
| 41) h | c-36 | 16.983 | 3712564 | 47.705 µg/mlm |

(f)=RT Delta > 1/2 Window (m)=manual int.

9.4.10

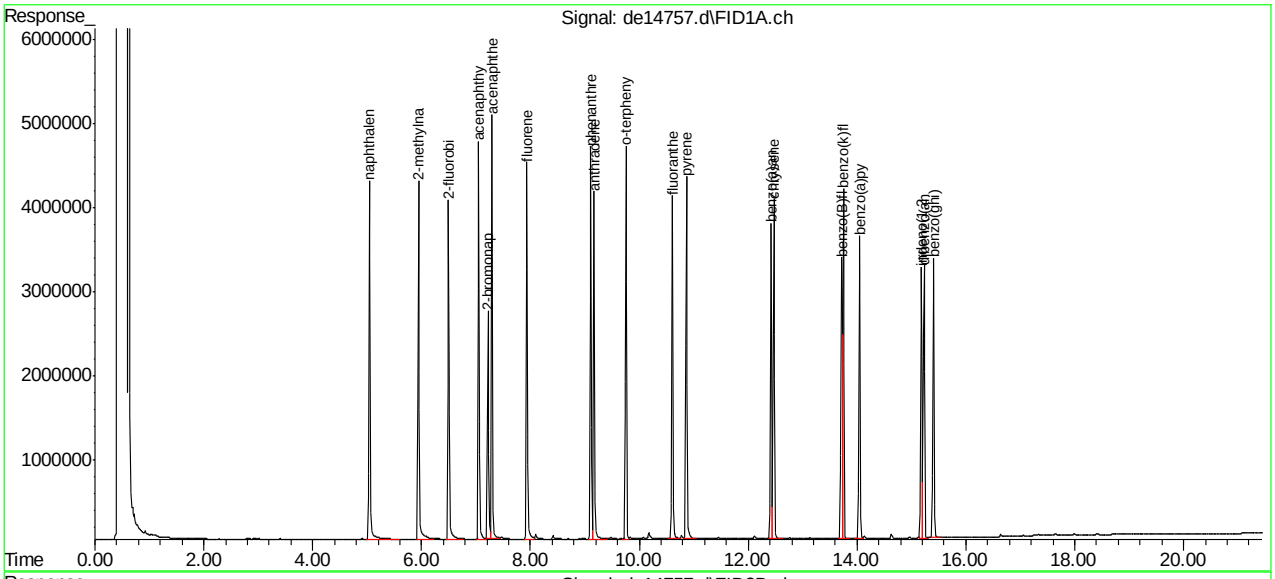
9

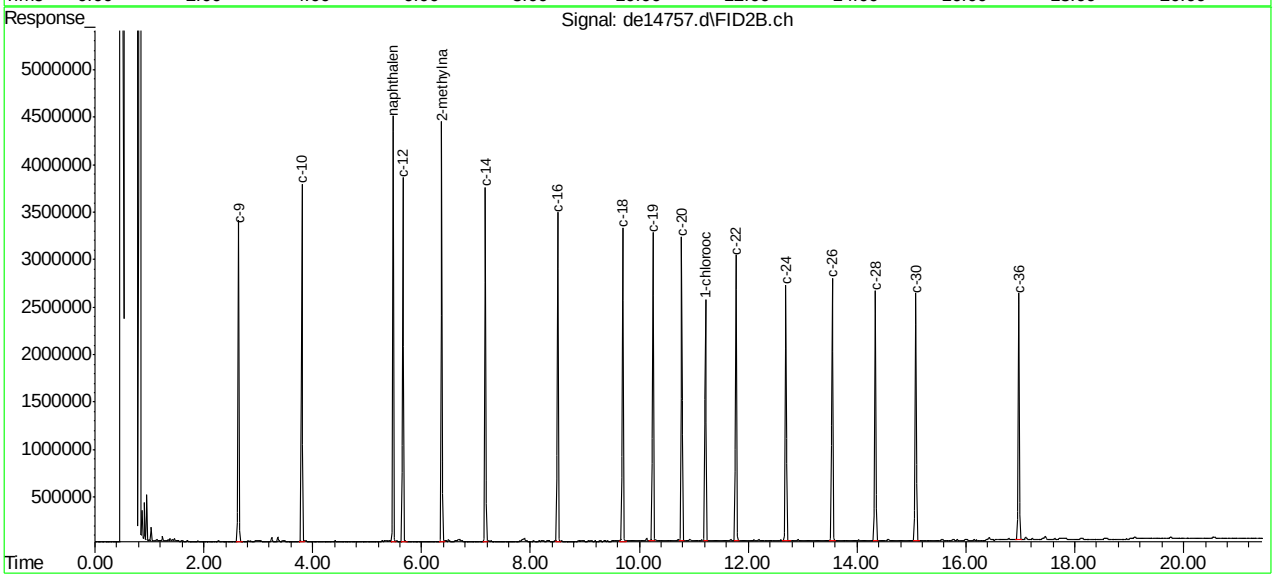
Quantitation Report (QT Reviewed)

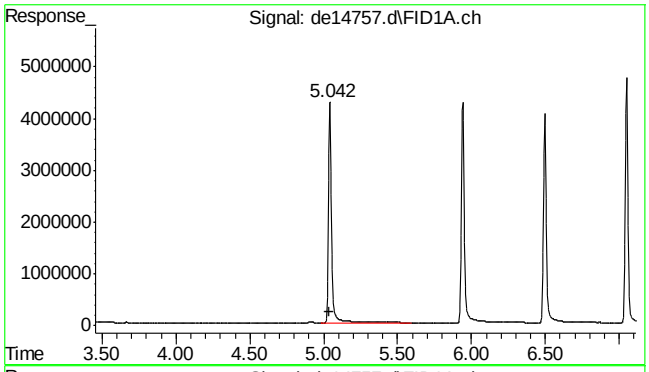
Data Path : C:\msdchem\1\DATA\DE160628EPH\
Data File : de14757.d
Signal(s) : Signal #1: FID1A.ch Signal #2: FID2B.ch
Acq On : 28 Jun 2016 8:50 pm
Operator : thomasa
Sample : ecc815-50,gde819 (Sig #1); cc815-50,gde819 (Sig #2)
Misc : op47862,gde819,1000,,,2,,w
ALS Vial : 142 Sample Multiplier: 1

Integration File signal 1: rteint.p
Integration File signal 2: rteint2.p
Quant Time: Jun 29 07:51:21 2016
Quant Method : C:\msdchem\1\METHODS\EPH160628W.M
Quant Title : BMAEPH-working method
QLast Update : Tue Jun 28 16:41:03 2016
Response via : Initial Calibration
Integrator: RTE

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :

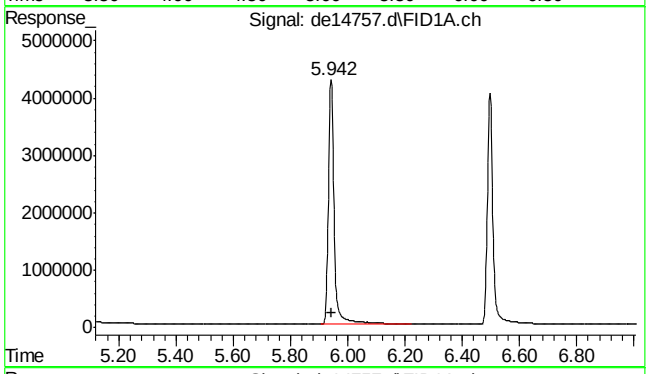




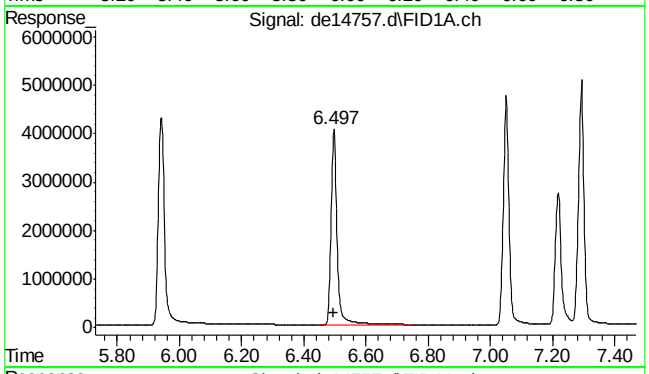

#2 naphthalene

R.T.: 5.042 min
Delta R.T.: 0.002 min
Response: 6081000
Conc: 48.44 µg/ml



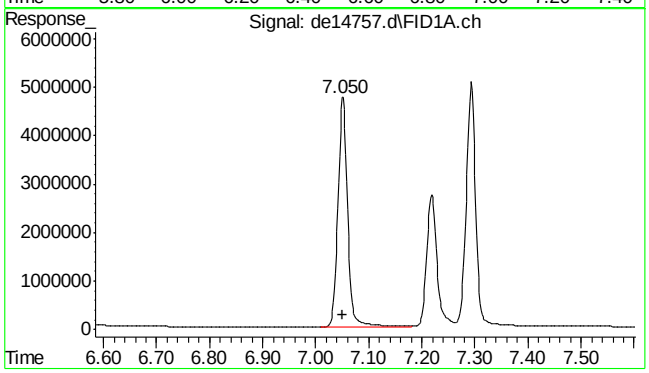

#3 2-methylnaphthalene

R.T.: 5.942 min
Delta R.T.: 0.000 min
Response: 6090891
Conc: 48.29 µg/ml




#4 2-fluorobiphenyl

R.T.: 6.497 min
Delta R.T.: 0.000 min
Response: 5477551
Conc: 47.85 µg/ml




#5 acenaphthylene

R.T.: 7.050 min
Delta R.T.: -0.002 min
Response: 5992299
Conc: 47.36 µg/ml

9.4.10

9



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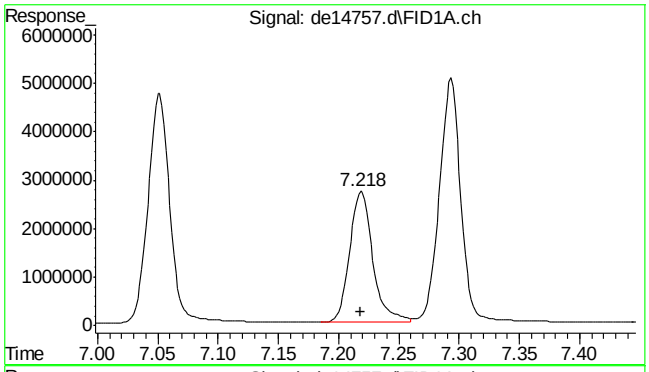
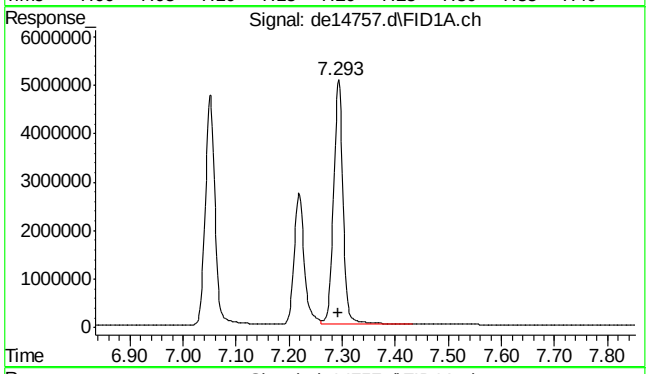


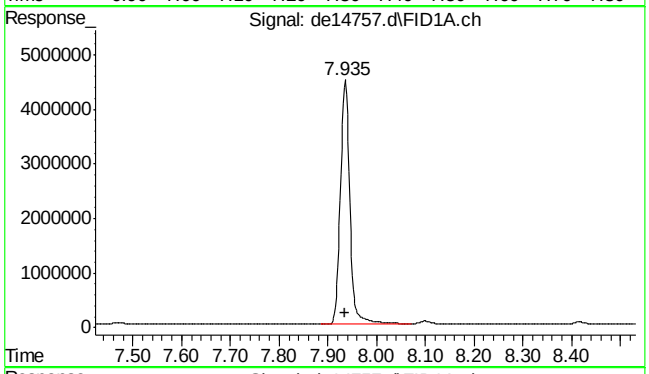

#6 2-bromonaphthalene

R.T.: 7.218 min
Delta R.T.: 0.000 min
Response: 3624238
Conc: 50.54 µg/ml



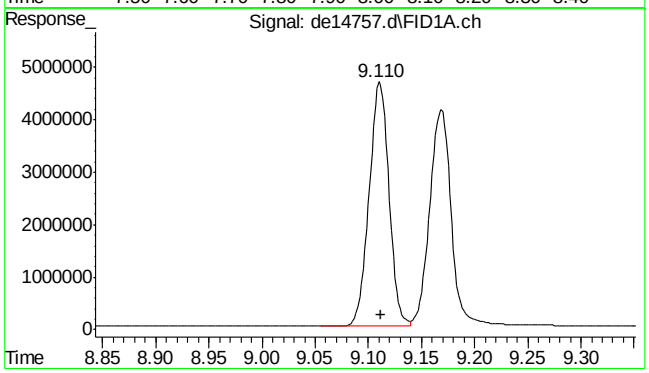

#7 acenaphthene

R.T.: 7.293 min
Delta R.T.: 0.000 min
Response: 6245586
Conc: 44.84 µg/ml




#8 fluorene

R.T.: 7.935 min
Delta R.T.: 0.000 min
Response: 6121819
Conc: 47.65 µg/ml




#9 phenanthrene

R.T.: 9.110 min
Delta R.T.: -0.002 min
Response: 6075345
Conc: 48.64 µg/ml

9.4.10

9



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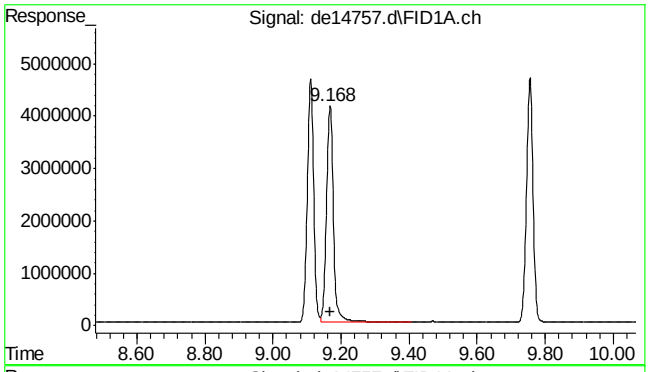
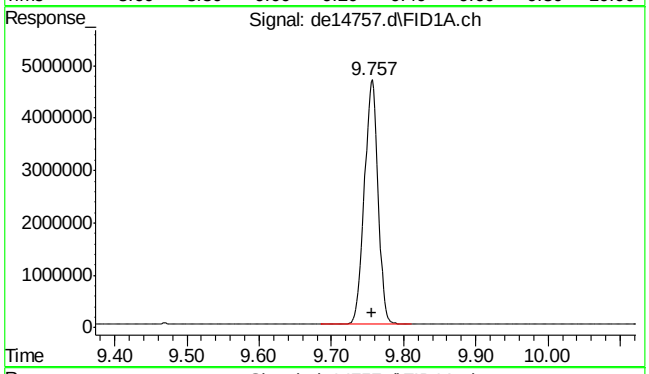


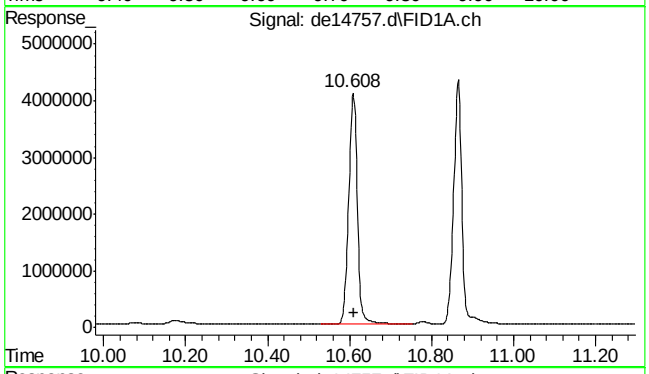

#10 anthracene

R.T.: 9.168 min
Delta R.T.: 0.000 min
Response: 5940205
Conc: 44.65 µg/ml



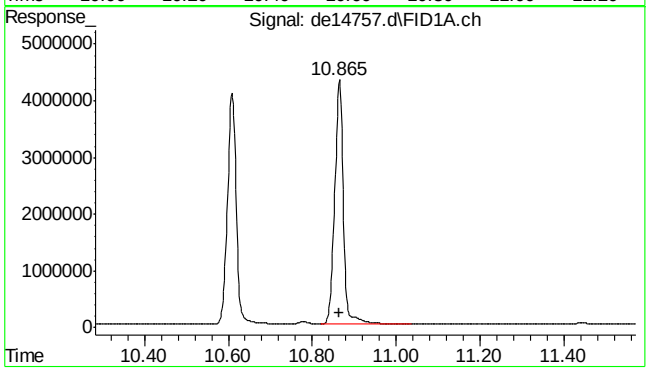

#11 o-terphenyl

R.T.: 9.757 min
Delta R.T.: 0.000 min
Response: 6150259
Conc: 46.48 µg/ml




#12 fluoranthene

R.T.: 10.608 min
Delta R.T.: -0.002 min
Response: 5985700
Conc: 46.67 µg/ml



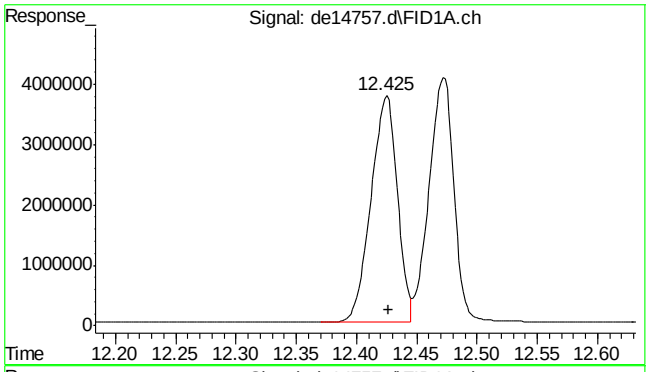

#13 pyrene

R.T.: 10.865 min
Delta R.T.: 0.000 min
Response: 6131965
Conc: 46.69 µg/ml



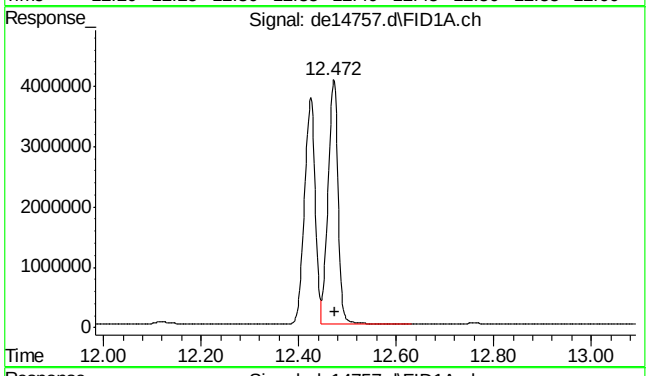


SGS ACCUTEST MC46487



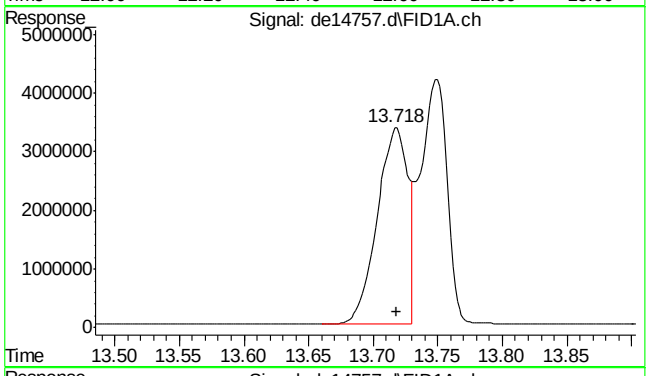

#14 benzo(a)anthracene

R.T.: 12.425 min
Delta R.T.: -0.002 min
Response: 5698537
Conc: 46.91 µg/ml



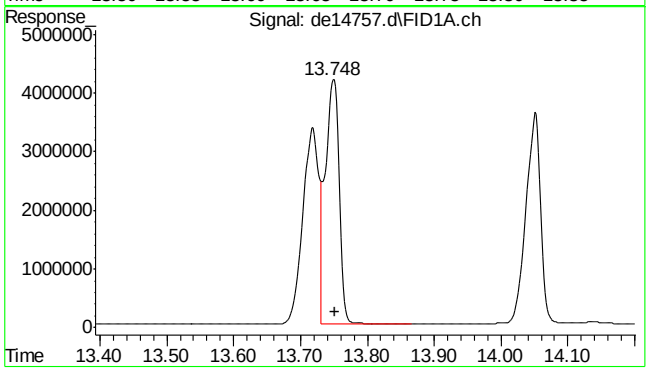

#15 chrysene

R.T.: 12.472 min
Delta R.T.: -0.002 min
Response: 5794247
Conc: 45.39 µg/ml




#16 benzo(B)fluoranthene

R.T.: 13.718 min
Delta R.T.: 0.000 min
Response: 5569161
Conc: 47.04 µg/ml




#17 benzo(k)fluoranthene

R.T.: 13.748 min
Delta R.T.: -0.003 min
Response: 5932199
Conc: 46.33 µg/ml

9.4.10

9



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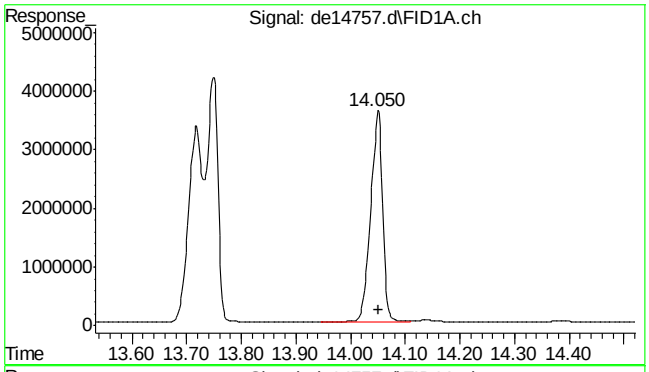
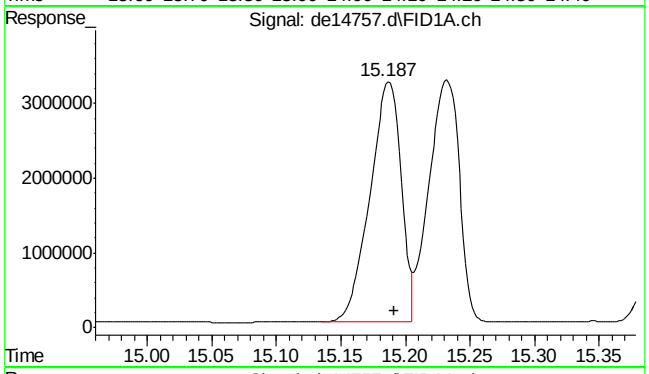


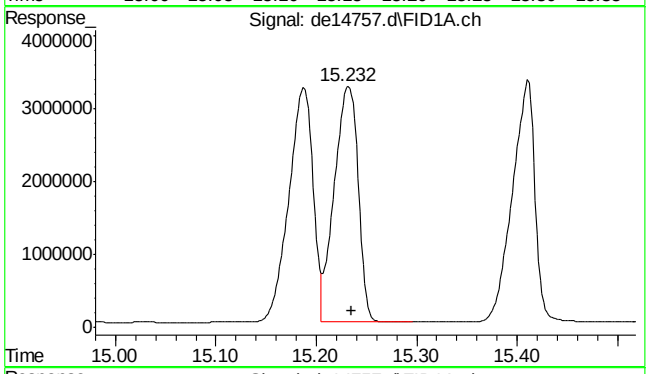

#18 benzo(a)pyrene

R.T.: 14.050 min
Delta R.T.: -0.002 min
Response: 5463154
Conc: 46.31 µg/ml



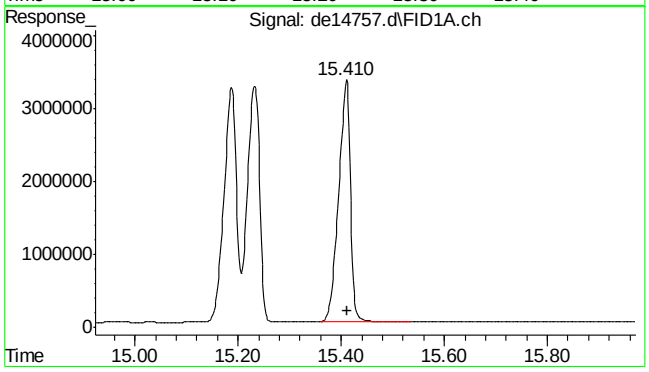

#19 indeno(1,2,3-cd)pyrene

R.T.: 15.187 min
Delta R.T.: -0.005 min
Response: 5423569
Conc: 46.34 µg/ml




#20 dibenzo(ah)anthracene

R.T.: 15.232 min
Delta R.T.: -0.003 min
Response: 5325232
Conc: 47.00 µg/ml




#21 benzo(ghi)perylene

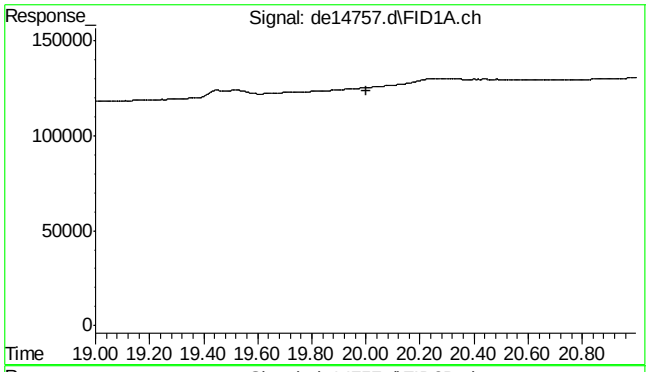
R.T.: 15.410 min
Delta R.T.: -0.002 min
Response: 5256617
Conc: 46.32 µg/ml

9.4.10

9

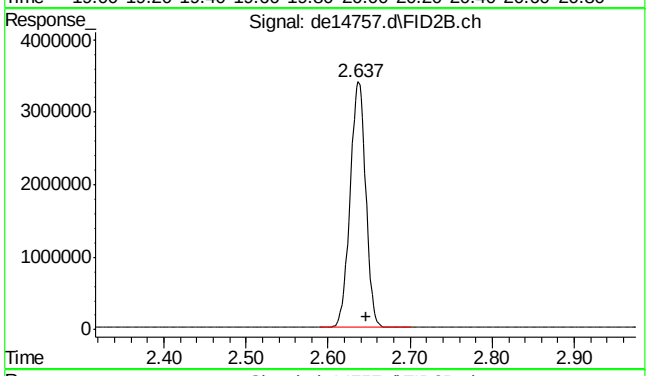


SGS ACCUTEST MC46487



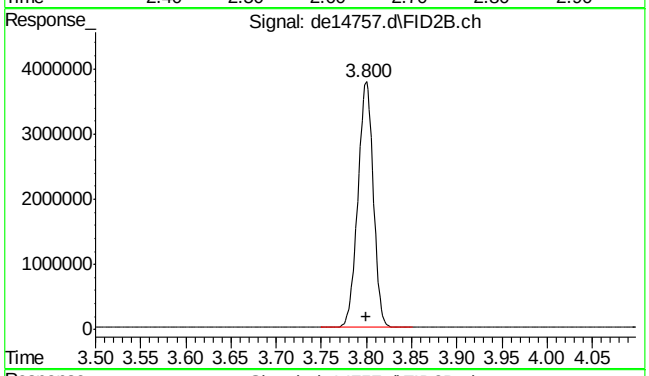

#22 bht

R.T.: 0.000 min
Exp R.T. : 20.000 min
Response: 0
Conc: N.D.



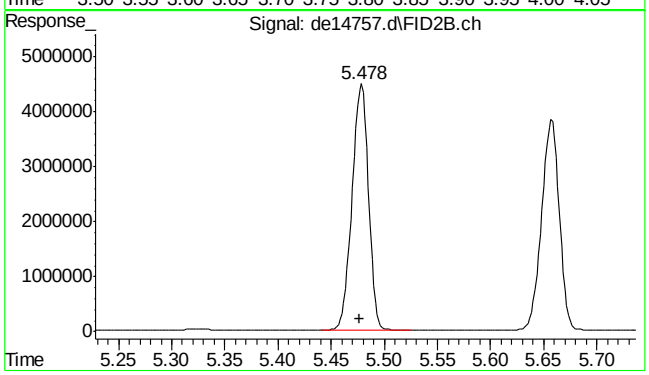

#25 c-9

R.T.: 2.647 min
Delta R.T.: 0.000 min
Response: 4448638
Conc: 52.77 µg/ml m



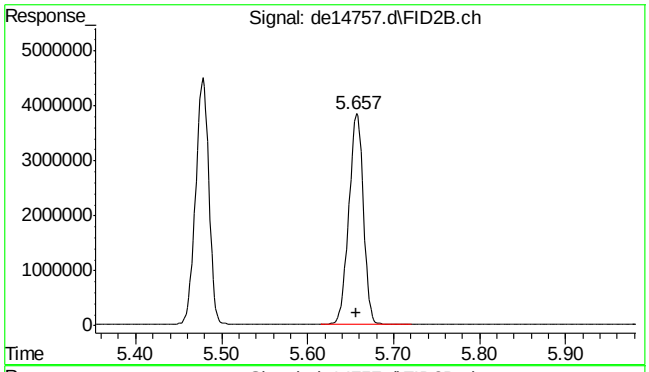

#26 c-10

R.T.: 3.800 min
Delta R.T.: 0.000 min
Response: 4508568
Conc: 53.48 µg/ml



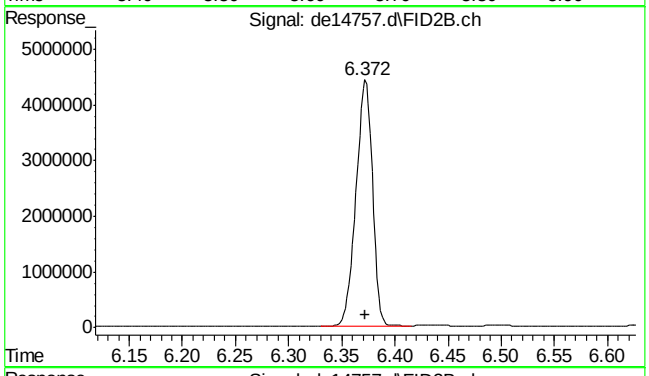

#27 naphthalene #2

R.T.: 5.478 min
Delta R.T.: 0.002 min
Response: 4812239
Conc: 52.93 µg/ml



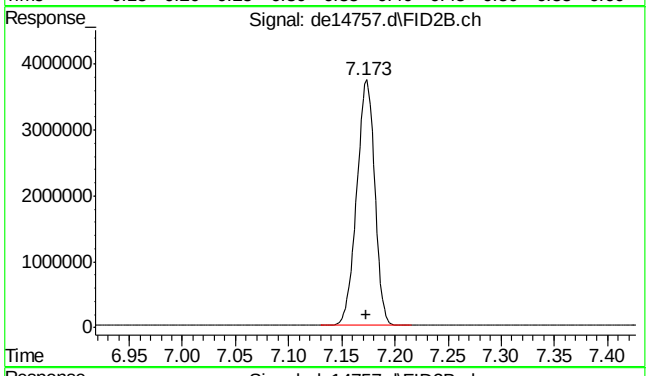

#28 c-12

R.T.: 5.657 min
Delta R.T.: 0.000 min
Response: 4438289
Conc: 52.65 µg/ml



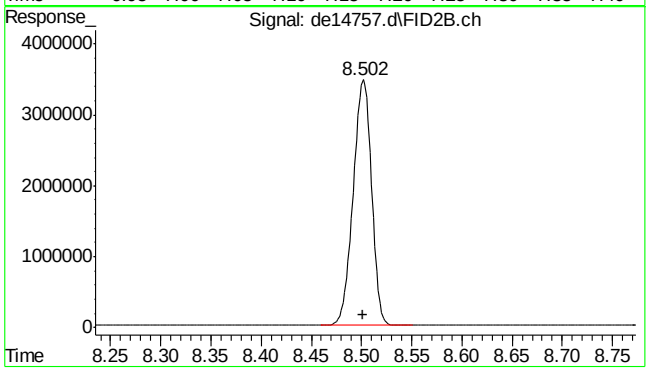

#29 2-methylnaphthalene #2

R.T.: 6.372 min
Delta R.T.: 0.000 min
Response: 4761471
Conc: 52.94 µg/ml




#30 c-14

R.T.: 7.173 min
Delta R.T.: 0.000 min
Response: 4407908
Conc: 52.28 µg/ml




#31 c-16

R.T.: 8.502 min
Delta R.T.: 0.000 min
Response: 4383973
Conc: 52.00 µg/ml





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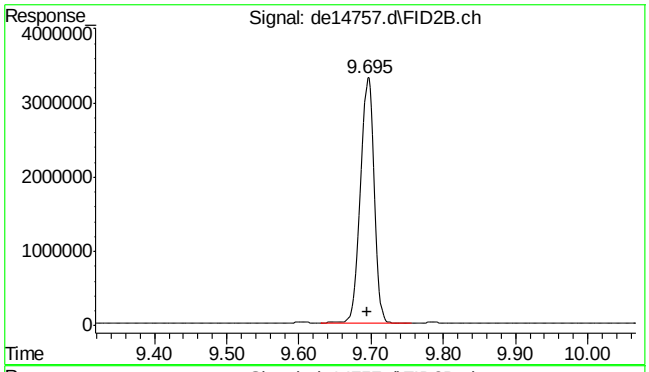
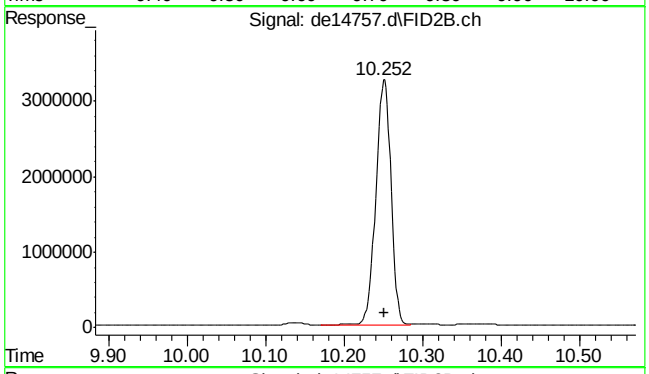


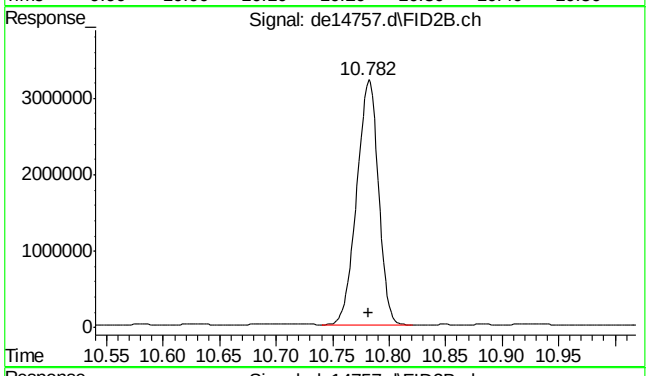

#32 c-18

R.T.: 9.695 min
Delta R.T.: 0.000 min
Response: 4378892
Conc: 51.94 µg/ml



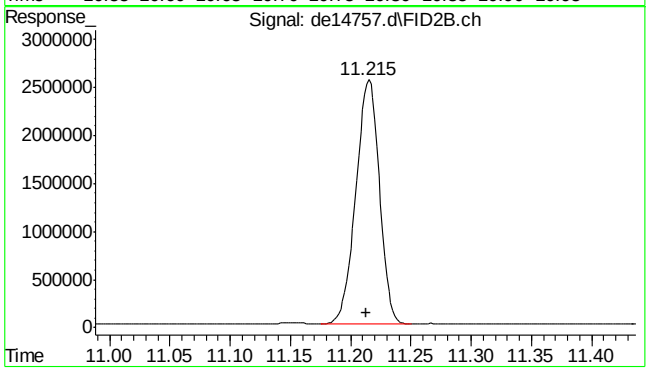

#33 c-19

R.T.: 10.252 min
Delta R.T.: 0.000 min
Response: 4348565
Conc: 55.88 µg/ml




#34 c-20

R.T.: 10.782 min
Delta R.T.: 0.000 min
Response: 4265444
Conc: 54.81 µg/ml




#35 1-chlorooctadecane

R.T.: 11.215 min
Delta R.T.: 0.002 min
Response: 3463459
Conc: 53.16 µg/ml

9.4.10

9



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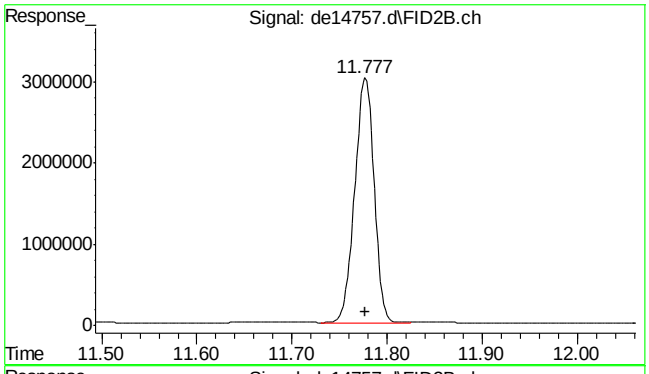
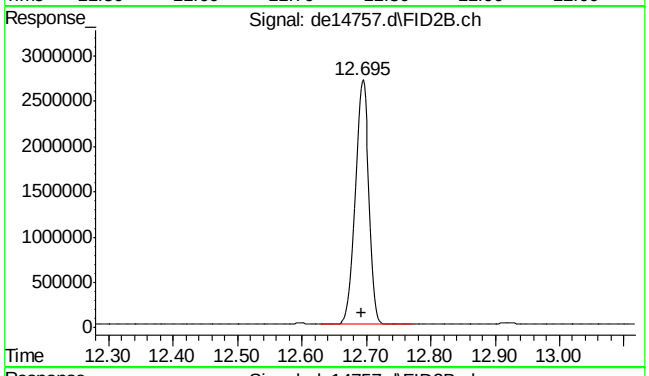


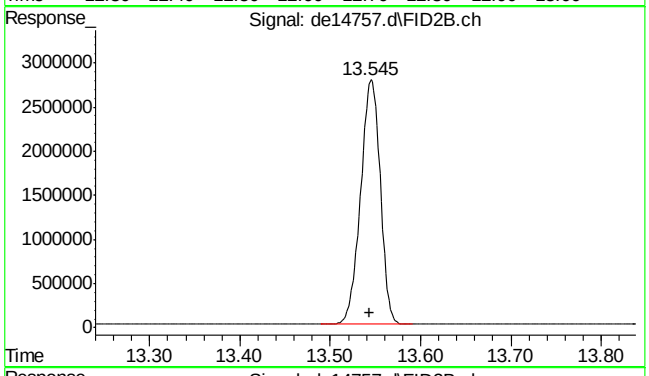

#36 c-22

R.T.: 11.777 min
Delta R.T.: 0.000 min
Response: 4259098
Conc: 54.73 µg/ml



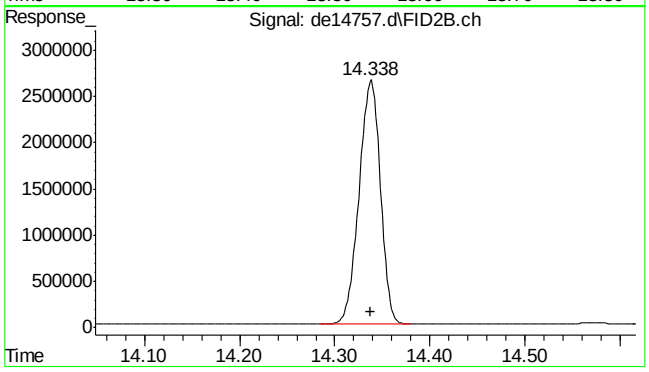

#37 c-24

R.T.: 12.695 min
Delta R.T.: 0.002 min
Response: 3952097
Conc: 50.78 µg/ml




#38 c-26

R.T.: 13.545 min
Delta R.T.: 0.002 min
Response: 4208867
Conc: 54.08 µg/ml




#39 c-28

R.T.: 14.338 min
Delta R.T.: 0.000 min
Response: 4097536
Conc: 52.65 µg/ml





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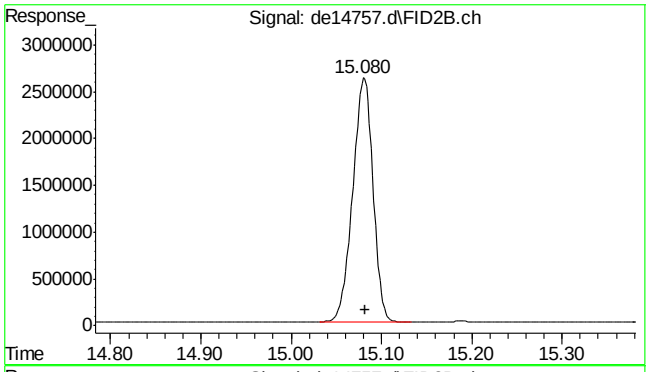
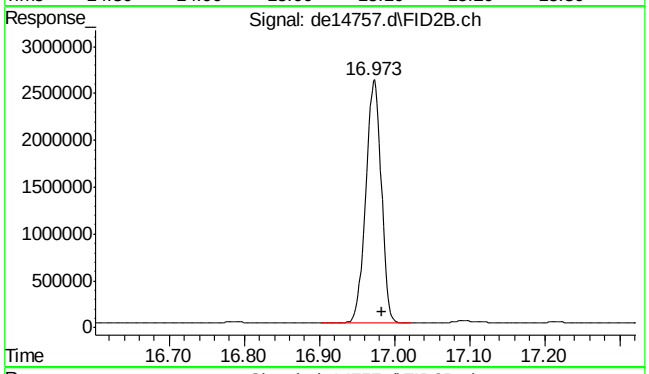


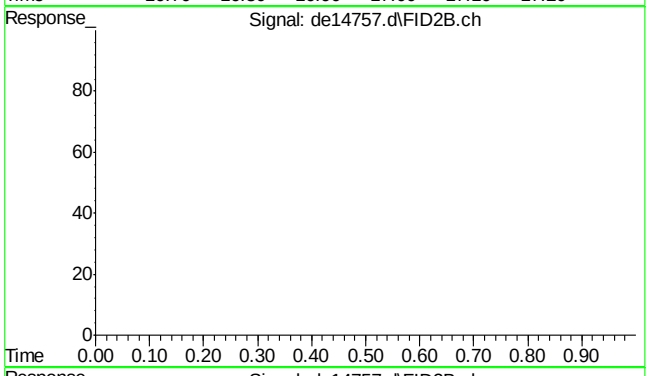

#40 c-30

R.T.: 15.082 min
Delta R.T.: 0.000 min
Response: 4087337
Conc: 52.52 µg/ml



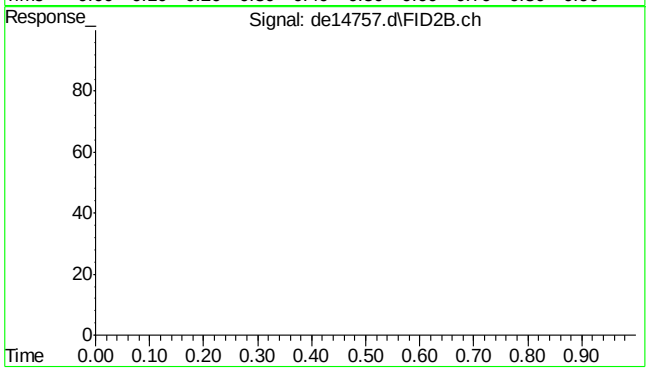

#41 c-36

R.T.: 16.983 min
Delta R.T.: 0.000 min
Response: 3712564
Conc: 47.70 µg/ml m




#42 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



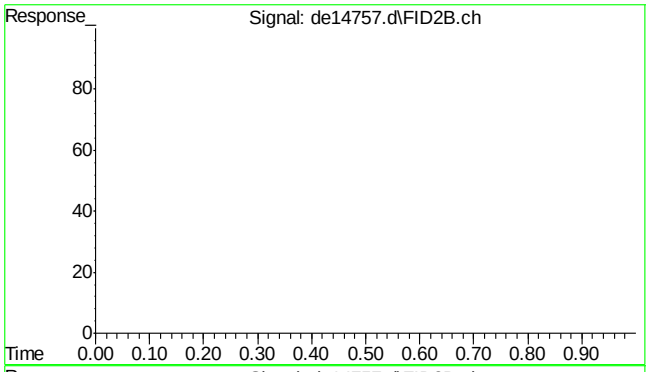

#43 bht

R.T.: 0.000 min
Exp R.T. : 23.000 min
Response: 0
Conc: N.D.



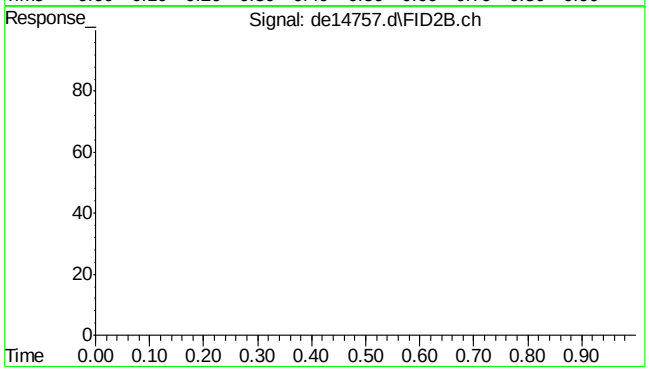


SGS ACCUTEST MC46487




#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, 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 MC46487

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:









SGS ACCUTEST MC46487

## 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 MC46487

## 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 |

9.5.1

9

## 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

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## 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 |




SGS ACCUTEST MC46487

**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:** 6.28.16

**Analyst Signature:**

**Standard Data**

| Lot # | Description | Conc |
|---|---|---|
| 651825D | Ali CCV | 50ug/ml |
| ↓251 | ARO CCV | 50ug/ml |
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Column Information: Front: Pest RTX-5 Alternate:
Rear : Pest2 RTX-5 Alternate:
Sequence File: 160628.S
Quantitation Methods: EPH 160628WM

Instrument Run Batches: GDE 819

Data Acquisition Methods: EPH DUAL W 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 | DE14747 | CC815-50 | N/A | MA EPH | N/A | N/A | ok |
| 1/2 | 48 | OP47926-BS | OP47926 | | W | | |
| 3/4 | 49 | -BSD | | | | | |
| 5/6 | 50 | -MB | | | | | |
| 7/8 | 51 | MC46487-1 | | | | | |
| 9/10 | 52 | -2 | | | | | |
| 11/12 | 53 | -4 | | | | | |
| 13/14 | 54 | -5 | | | | | |
| 15/16 | 55 | -6 | | | | | |
| 17/18 | 56 | -7 | | | | | |
| 141/142 | 57 | CCC815-50 | N/A | | N/A | | ok |
| 51/52 | DE14758 | MC46584-15 | OP47988 | | N/A | | FRAC surr check |
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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:

48

9.5.2

9

## BMAEPH - Aliphatic Continuing Calibration Report

| | |
|---|---|
| **Data File Name** | de14747.d |
| **Operator** | thomasa |
| **Instrument Name** | GCDE |
| **Sample Name** | cc815-50,gde819 |

| Name | Amount | Response | | Continuing Avg. RF | Initial Avg. RF | %Diff | |
|---|---|---|---|---|---|---|---|
| c-9 | 48.12 | 4056799 | | | | | |
| c-10 | 48.62 | 4099307 | | | | | |
| c-12 | 48.15 | 4059457 | **C9-C18** | 80760 | 84306 | **4.30** | **In Criteria** |
| c-14 | 47.73 | 4023681 | | | | | |
| c-16 | 47.28 | 3986039 | | | | | |
| c-18 | 47.48 | 4002798 | | | | | |
| c-19 | 51.18 | 3982907 | **C19-C36** | 75991 | 77824 | **2.38** | **In Criteria** |
| c-20 | 50.31 | 3915603 | | | | | |
| c-22 | 50.05 | 3894763 | | | | | |
| c-24 | 46.72 | 3636194 | | c28/c20 Percentage: | | 96.41 | |
| c-26 | 49.99 | 3890368 | | | | | |
| c-28 | 48.51 | 3774958 | | | | | |
| c-30 | 49.20 | 3829303 | | | | | |
| c-36 | 44.62 | 3472319 | | | | | |

| | | |
|---|---|---|
| 1-chlorooctadecane | 48.51 | 3160284 |
| naphthalene #2 | 48.01 | 4364462 |
| 2-methylnaphthalene | 48.27 | 4341315 |




SGS ACCUTEST MC46487

## BMAEPH - Aliphatic Continuing Calibration Report

| | |
|---|---|
| **Data File Name** | de14757.d |
| **Operator** | thomasa |
| **Instrument Name** | GCDE |
| **Sample Name** | ecc815-50,gde819 |

| Name | Amount | Response | | Continuing Avg. RF | Initial Avg. RF | %Diff | |
|---|---|---|---|---|---|---|---|
| c-9 | 52.77 | 4448638 | | | | | |
| c-10 | 53.48 | 4508568 | | | | | |
| c-12 | 52.65 | 4438289 | **C9-C18** | 88554 | 84306 | **4.92** | **In Criteria** |
| c-14 | 52.28 | 4407908 | | | | | |
| c-16 | 52.00 | 4383973 | | | | | |
| c-18 | 51.94 | 4378892 | | | | | |
| c-19 | 55.88 | 4348565 | **C19-C36** | 82329 | 77824 | **5.63** | **In Criteria** |
| c-20 | 54.81 | 4265444 | | | | | |
| c-22 | 54.73 | 4259098 | | | | | |
| c-24 | 50.78 | 3952097 | | c28/c20 Percentage: | | 96.06 | |
| c-26 | 54.08 | 4208867 | | | | | |
| c-28 | 52.65 | 4097536 | | | | | |
| c-30 | 52.52 | 4087337 | | | | | |
| c-36 | 47.70 | 3712564 | | | | | |

| | | |
|---|---|---|
| 1-chlorooctadecane | 53.16 | 3463459 |
| naphthalene #2 | 52.93 | 4812239 |
| 2-methylnaphthalene | 52.94 | 4761471 |

# BMAEPH - BS/BSD Report

**Operator** thomasa
**Instrument Name** GCDE
**Sample Name** op47926-bs

**Aromatic Recovery**

| Name | | Amount | Spiked | Recovery | Outside Limits? |
|---|---|---|---|---|---|
| naphthalene | | 13.50 | 50 | 54.00 | |
| 2-methylnaphthalene | | 14.11 | 50 | 56.45 | |
| 2-fluorobiphenyl | s | 16.09 | 40 | 80.46 | |
| acenaphthylene | | 15.32 | 50 | 61.26 | |
| 2-bromonaphthalene | s | 16.35 | 40 | 81.74 | |
| acenaphthene | | 16.02 | 50 | 64.08 | |
| fluorene | | 16.35 | 50 | 65.39 | |
| phenanthrene | | 17.60 | 50 | 70.42 | |
| anthracene | | 17.97 | 50 | 71.87 | |
| o-terphenyl | s | 14.48 | 40 | 72.41 | |
| fluoranthene | | 18.69 | 50 | 74.77 | |
| pyrene | | 18.48 | 50 | 73.90 | |
| benzo(a)anthracene | | 19.63 | 50 | 78.51 | |
| chrysene | | 19.29 | 50 | 77.14 | |
| benzo(B)fluoranthene | | 19.42 | 50 | 77.70 | |
| benzo(k)fluoranthene | | 19.71 | 50 | 78.82 | |
| benzo(a)pyrene | | 20.04 | 50 | 80.17 | |
| indeno(1,2,3-cd)pyrene | | 20.22 | 50 | 80.86 | |
| dibenzo(ah)anthracene | | 20.76 | 50 | 83.04 | |
| benzo(ghi)perylene | | 20.63 | 50 | 82.51 | |

| Aliphatic Recovery Name | | Amount | Spiked | Recovery | Outside Limits? |
|---|---|---|---|---|---|
| c-9 | | 10.77 | 50 | 43.08 | |
| c-10 | | 14.56 | 50 | 58.23 | |
| c-12 | | 17.66 | 50 | 70.62 | |
| c-14 | | 19.34 | 50 | 77.34 | |
| c-16 | | 20.36 | 50 | 81.42 | |
| c-18 | | 21.64 | 50 | 86.56 | |
| c-19 | | 23.53 | 50 | 94.14 | |
| c-20 | | 23.98 | 50 | 95.92 | |
| 1-chlorooctadecane | s | 15.14 | 40 | 75.70 | |
| c-22 | | 23.92 | 50 | 95.68 | |
| c-24 | | 23.45 | 50 | 93.81 | |
| c-26 | | 22.92 | 50 | 91.66 | |
| c-28 | | 22.58 | 50 | 90.31 | |
| c-30 | | 22.22 | 50 | 88.89 | |
| c-36 | | 18.61 | 50 | 74.46 | |

**Recovery C9-C18**
69.54

**Recovery C19-C36**
90.61

| | | | |
|---|---|---|---|
| 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** op47926-bsd

**Aromatic Recovery**

| Name | | Amount | Spiked | Recovery | Outside Limits? |
|---|---|---|---|---|---|
| naphthalene | | 12.85 | 50 | 51.39 | |
| 2-methylnaphthalene | | 13.45 | 50 | 53.80 | |
| 2-fluorobiphenyl | s | 15.17 | 40 | 75.85 | |
| acenaphthylene | | 14.78 | 50 | 59.13 | |
| 2-bromonaphthalene | s | 15.40 | 40 | 77.02 | |
| acenaphthene | | 15.60 | 50 | 62.38 | |
| fluorene | | 15.89 | 50 | 63.55 | |
| phenanthrene | | 16.92 | 50 | 67.70 | |
| anthracene | | 17.44 | 50 | 69.76 | |
| o-terphenyl | s | 13.72 | 40 | 68.59 | |
| fluoranthene | | 18.28 | 50 | 73.12 | |
| pyrene | | 18.09 | 50 | 72.37 | |
| benzo(a)anthracene | | 19.24 | 50 | 76.96 | |
| chrysene | | 19.09 | 50 | 76.34 | |
| benzo(B)fluoranthene | | 20.46 | 50 | 81.86 | |
| benzo(k)fluoranthene | | 18.17 | 50 | 72.69 | |
| benzo(a)pyrene | | 19.81 | 50 | 79.25 | |
| indeno(1,2,3-cd)pyrene | | 20.00 | 50 | 80.00 | |
| dibenzo(ah)anthracene | | 20.58 | 50 | 82.33 | |
| benzo(ghi)perylene | | 20.50 | 50 | 81.98 | |

| Aliphatic Recovery Name | | Amount | Spiked | Recovery | Outside Limits? |
|---|---|---|---|---|---|
| c-9 | | 9.81 | 50 | 39.23 | |
| c-10 | | 13.45 | 50 | 53.81 | |
| c-12 | | 16.51 | 50 | 66.06 | |
| c-14 | | 18.39 | 50 | 73.56 | |
| c-16 | | 19.63 | 50 | 78.52 | |
| c-18 | | 21.02 | 50 | 84.07 | |
| c-19 | | 22.85 | 50 | 91.39 | |
| c-20 | | 23.00 | 50 | 91.98 | |
| 1-chlorooctadecane | s | 14.67 | 40 | 73.35 | |
| c-22 | | 23.02 | 50 | 92.10 | |
| c-24 | | 22.70 | 50 | 90.78 | |
| c-26 | | 22.17 | 50 | 88.69 | |
| c-28 | | 21.80 | 50 | 87.19 | |
| c-30 | | 21.47 | 50 | 85.89 | |
| c-36 | | 18.22 | 50 | 72.89 | |

**Recovery C9-C18**
65.87

**Recovery C19-C36**
87.61

| | | | |
|---|---|---|---|
| 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: BMA 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 | 150 |

| Surrogate | Lot # | Conc. (ug/ml) | Vol. (ul) |
|---|---|---|---|
| EPH | 7483 | 2000 | 20 |
| EPH Fn | 7725 | 40 | 1 ml |

| | Sample # | Sample Bottle | Acid pH | Base pH | Sample Initial Volume (mL) | Final Extract Final Volume (mL) | Comments |
|---|---|---|---|---|---|---|---|
| | OP47926 MB | NA | 2 | NA | 1000 | 2.0 | |
| | BS | | | | | | |
| | BSD | | | | | | |
| | MS | | | | | | |
| | MSD | | | | | | |
| 1 | MC46487-1 | 1 | 2 | NA | 930 | 2.0 | |
| 2 | -2 | 1 | | | | | |
| 3 | -4 | 2 | | | | | |
| 4 | ~~-5~~ | ~~2~~ | | | ~~940~~ | NA | lost during extraction |
| 5 | -6 | 1 | | | 980 | 2.0 | |
| 6 | -7 | 2 | | | 960 | | |
| 7 | MC46487-5 | 1 | 2 | N/A | 950 | | |
| 8 | | | | | | | |
| 9 | | | | | | | |
| 10 | | | | | | | |
| 11 | | | | | | | |
| 12 | | | | | | | |
| 13 | | | | | | | |
| 14 | | | | | | | |
| 15 | | | | | | | |
| 16 | | | | | | | AJ 6/28/16 |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

Supervisor Approval:

Clean up Methods: Check
Copper: 3660B
Silica: 3630
Florisil: 3620
Acid: 3665

Comments: * MC46487-5.2 was lost during extraction (sep. fun malfunction)

| BATCH # OP47926 | INITIALS | DATE | TIME |
|---|---|---|---|
| Extracted by: | KV | 6/21/16 | 1700 |
| Spike Witness: | IC | ↓ | ↓ |
| Concentrated by: | AJ | 6/28/16 | 15:30 |
| Fractionated by: | AJ | Volume (ml): | 12.5 ml |
| Received by: | ~~AJ~~ | 6/28/16 | 15:30 |

**Tray #** GC-27

| 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 | 162780 | 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 | 216314 | HYDRION |

| Filtered by: | Init./Date: | KV 6/21/16 |
|---|---|---|

SGS ACCUTEST - MARLBOROUGH
Form: OP018-03
Rev Date: 4/26/16