# LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122118\
Data File : BG038798.D
Acq On : 21 Dec 2018 22:44
Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Integration Parameters: rteint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 3.181 | 13 | 16 | 26 | rVB | 22697 | 36594 | 1.94% | 0.390% |
| 2 | 5.144 | 344 | 350 | 356 | rBV | 12998 | 23149 | 1.23% | 0.247% |
| 3 | 5.614 | 420 | 430 | 438 | rBV | 195452 | 332374 | 17.62% | 3.543% |
| 4 | 7.218 | 697 | 703 | 714 | rVB3 | 127925 | 256045 | 13.57% | 2.729% |
| 5 | 7.588 | 756 | 766 | 775 | rBV | 373174 | 677477 | 35.91% | 7.222% |
| 6 | 8.058 | 840 | 846 | 852 | rBV | 78682 | 139706 | 7.41% | 1.489% |
| 7 | 8.381 | 888 | 901 | 908 | rBV | 353102 | 666317 | 35.32% | 7.103% |
| 8 | 8.428 | 908 | 909 | 918 | rVB4 | 17010 | 19539 | 1.04% | 0.208% |
| 9 | 8.534 | 918 | 927 | 932 | rBV4 | 13598 | 21079 | 1.12% | 0.225% |
| 10 | 9.151 | 1027 | 1032 | 1039 | rVB4 | 25302 | 49295 | 2.61% | 0.525% |
| 11 | 9.239 | 1039 | 1047 | 1056 | rBV | 329489 | 598779 | 31.74% | 6.383% |
| 12 | 9.679 | 1117 | 1122 | 1130 | rVB | 19029 | 31505 | 1.67% | 0.336% |
| 13 | 10.108 | 1190 | 1195 | 1203 | rBV5 | 10404 | 23351 | 1.24% | 0.249% |
| 14 | 10.261 | 1215 | 1221 | 1227 | rBV3 | 18556 | 31438 | 1.67% | 0.335% |
| 15 | 10.878 | 1312 | 1326 | 1338 | rVB | 108965 | 230914 | 12.24% | 2.462% |
| 16 | 12.752 | 1637 | 1645 | 1649 | rBV9 | 8903 | 19612 | 1.04% | 0.209% |
| 17 | 12.911 | 1667 | 1672 | 1677 | rVB8 | 10718 | 19906 | 1.06% | 0.212% |
| 18 | 13.316 | 1732 | 1741 | 1748 | rBV | 897156 | 1415605 | 75.04% | 15.091% |
| 19 | 14.139 | 1876 | 1881 | 1887 | rBV | 40305 | 66342 | 3.52% | 0.707% |
| 20 | 14.550 | 1947 | 1951 | 1956 | rVB2 | 19773 | 32484 | 1.72% | 0.346% |
| 21 | 14.697 | 1967 | 1976 | 1983 | rBV2 | 185319 | 311463 | 16.51% | 3.320% |
| 22 | 16.189 | 2223 | 2230 | 2239 | rBV2 | 720815 | 1123413 | 59.55% | 11.976% |
| 23 | 17.447 | 2438 | 2444 | 2456 | rBV2 | 225061 | 362899 | 19.24% | 3.869% |
| 24 | 18.305 | 2586 | 2590 | 2600 | rBV2 | 49757 | 86286 | 4.57% | 0.920% |
| 25 | 20.050 | 2881 | 2887 | 2893 | rBV | 1401467 | 1886398 | 100.00% | 20.109% |
| 26 | 21.325 | 3101 | 3104 | 3114 | rVB2 | 38559 | 70459 | 3.74% | 0.751% |
| 27 | 21.724 | 3167 | 3172 | 3185 | rVB | 218213 | 402035 | 21.31% | 4.286% |
| 28 | 23.986 | 3553 | 3557 | 3566 | rVB3 | 20128 | 47554 | 2.52% | 0.507% |
| 29 | 24.956 | 3717 | 3722 | 3726 | rBV7 | 11103 | 24585 | 1.30% | 0.262% |
| 30 | 25.032 | 3726 | 3735 | 3747 | rVB2 | 121350 | 374094 | 19.83% | 3.988% |

Sum of corrected areas: 9380697

LSC Report - Integrated Chromatogram

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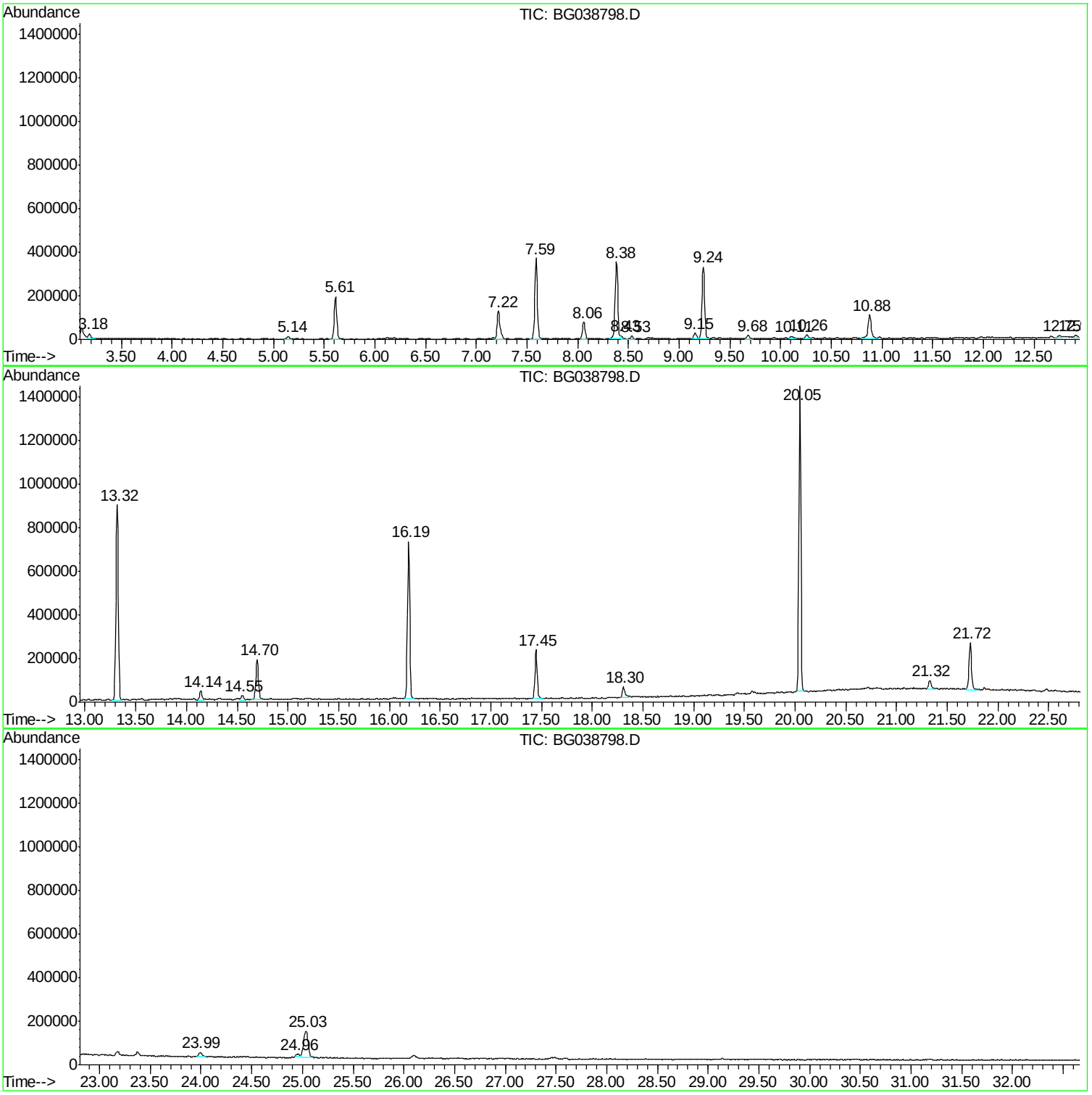
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P



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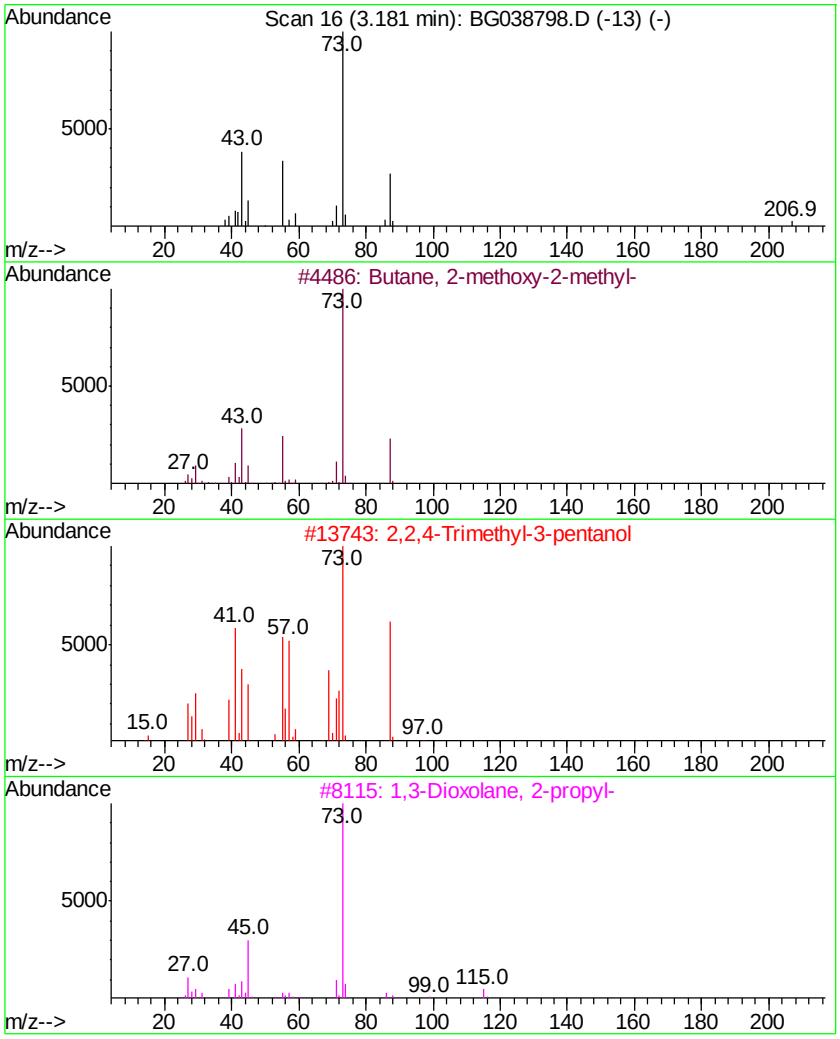
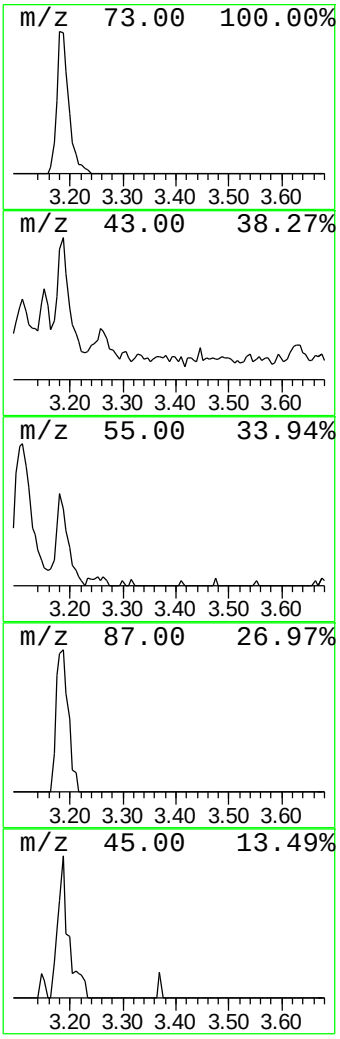
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.18 | 5.24 ng | 36594 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 72 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 45 |
| 3 | 1,3-Dioxolane, 2-propyl- | 116 | C6H12O2 | 003390-13-4 | 40 |
| 4 | 2-Methyl-5-hexen-3-ol | 114 | C7H14O | 032815-70-6 | 32 |
| 5 | 1-Propene-1-thiol | 74 | C3H6S | 000925-89-3 | 25 |



# Library Search Compound Report

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ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
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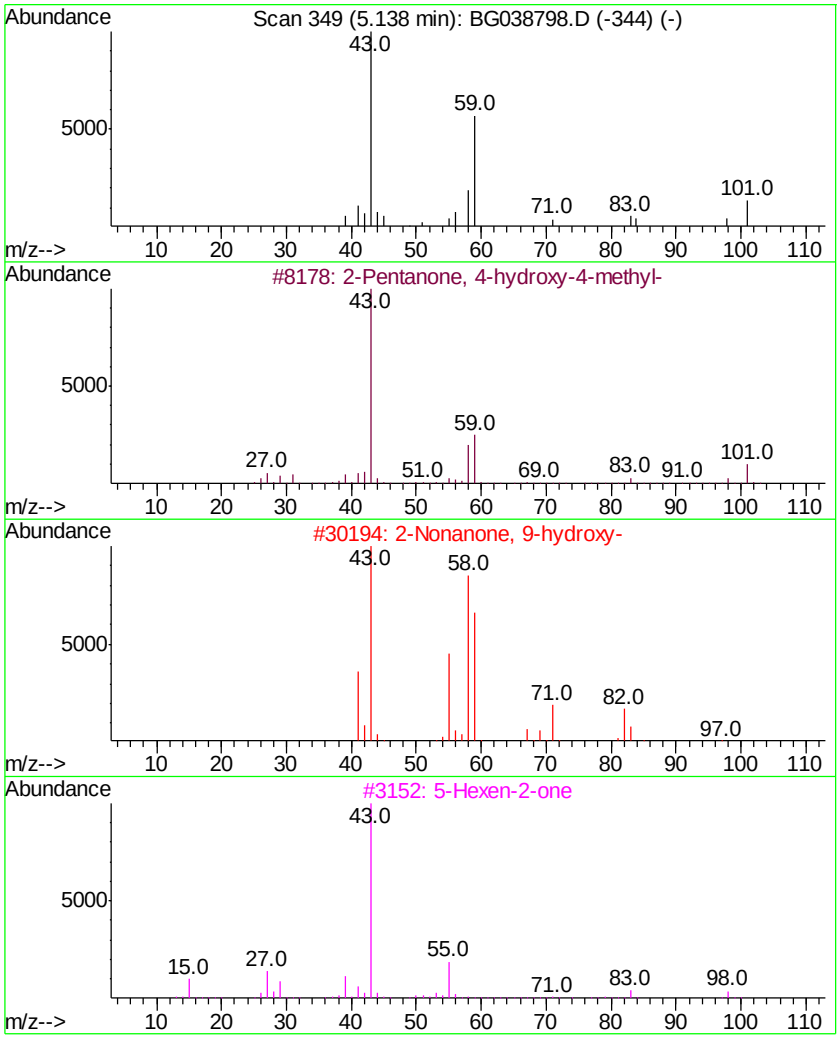
TIC Integration Parameters: LSCINT.P

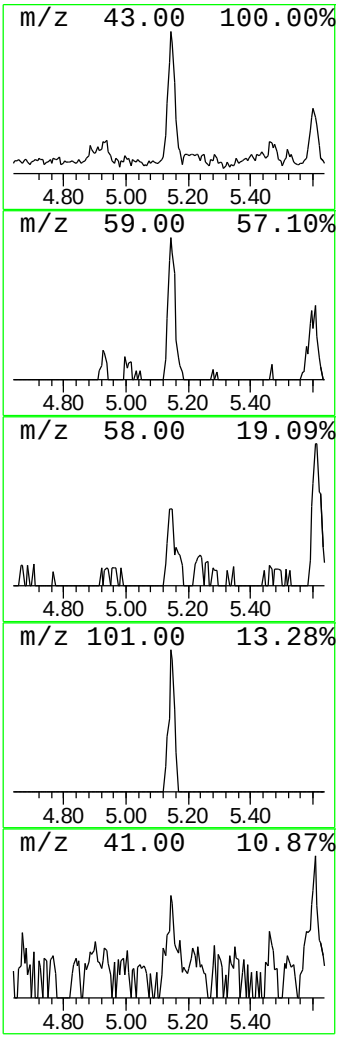
**********

Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.14 | 3.31 ng | 23149 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 64 |
| 2 | 2-Nonanone, 9-hydroxy- | 158 | C9H18O2 | 025368-56-3 | 28 |
| 3 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 4 | 2-Propyn-1-ol, acetate | 98 | C5H6O2 | 000627-09-8 | 9 |
| 5 | 4-Penten-2-one | 84 | C5H8O | 013891-87-7 | 9 |



Library Search Compound Report

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Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

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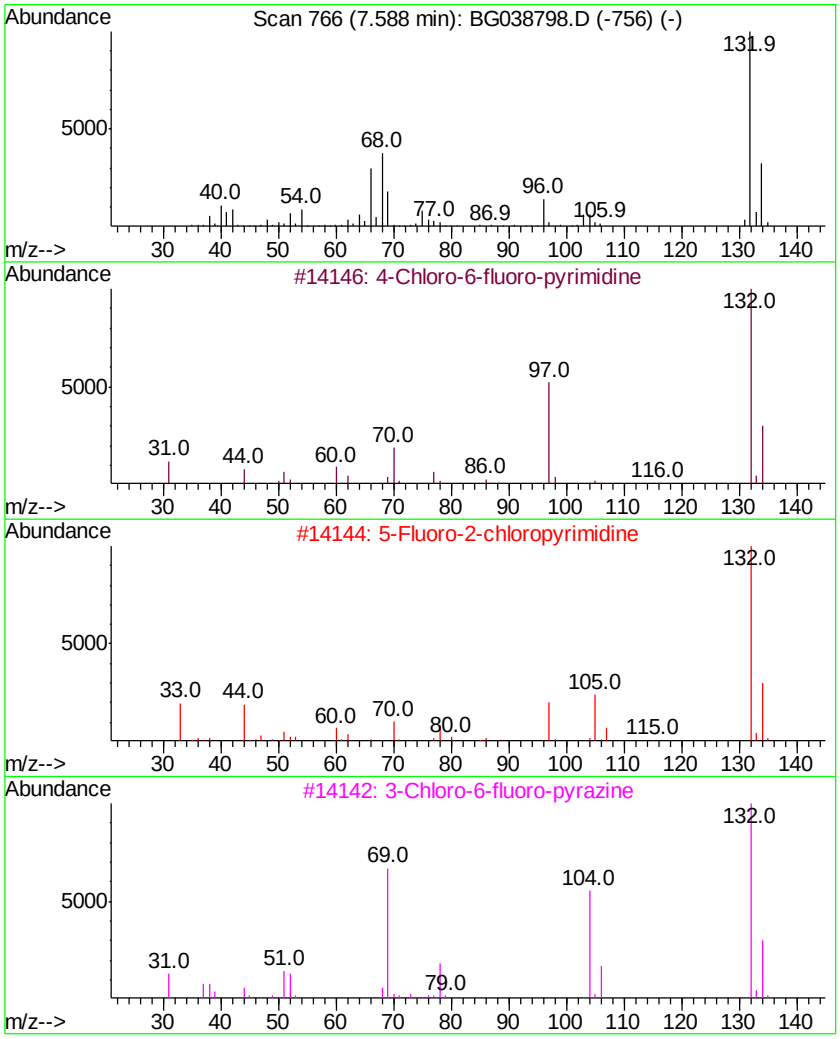
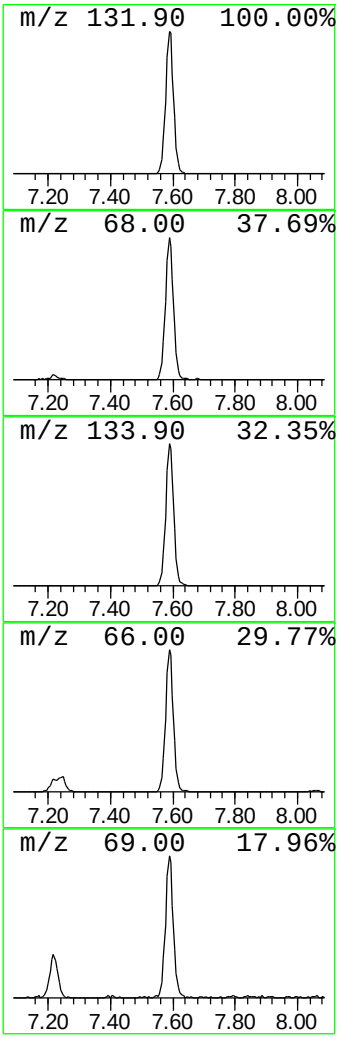
**********

Peak Number 3 unknown7.59 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.59 | 96.99 ng | 677477 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 35 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 35 |
| 3 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 4 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 23 |
| 5 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 22 |



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Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
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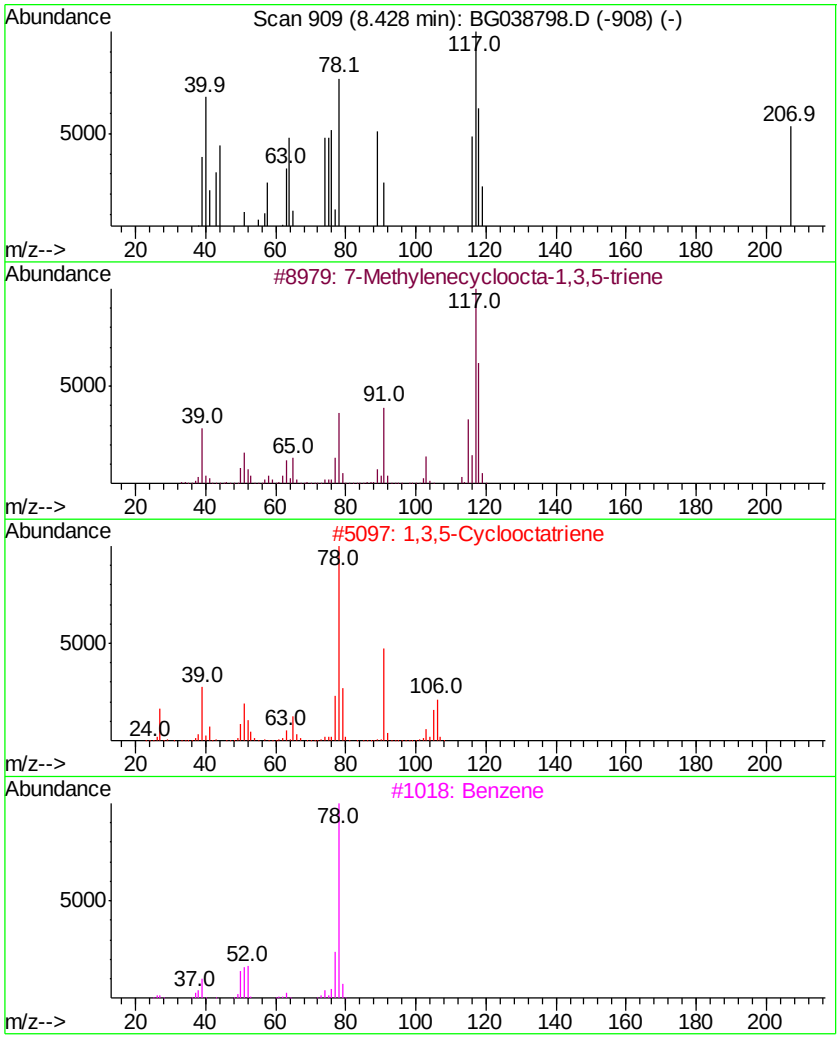
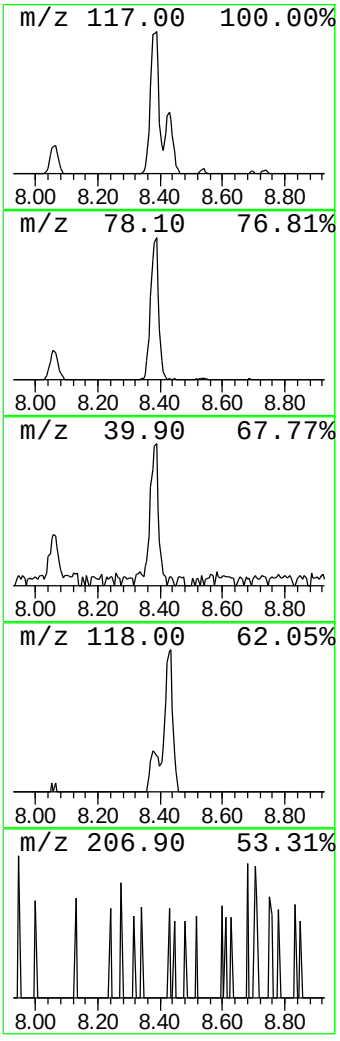
**********

Peak Number 5 unknown8.43 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.43 | 2.80 ng | 19539 | 1,4-Dichlorobenzene-d4 | 8.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Methylenecycloocta-1,3,5-triene | 118 | C9H10 | 002570-13-0 | 37 |
| 2 | 1,3,5-Cyclooctatriene | 106 | C8H10 | 001871-52-9 | 16 |
| 3 | Benzene | 78 | C6H6 | 000071-43-2 | 16 |
| 4 | Benzonitrile, 2-methyl- | 117 | C8H7N | 000529-19-1 | 9 |
| 5 | Dichlorophenylsilane | 176 | C6H6Cl2Si | 1000342-36-9 | 9 |



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Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
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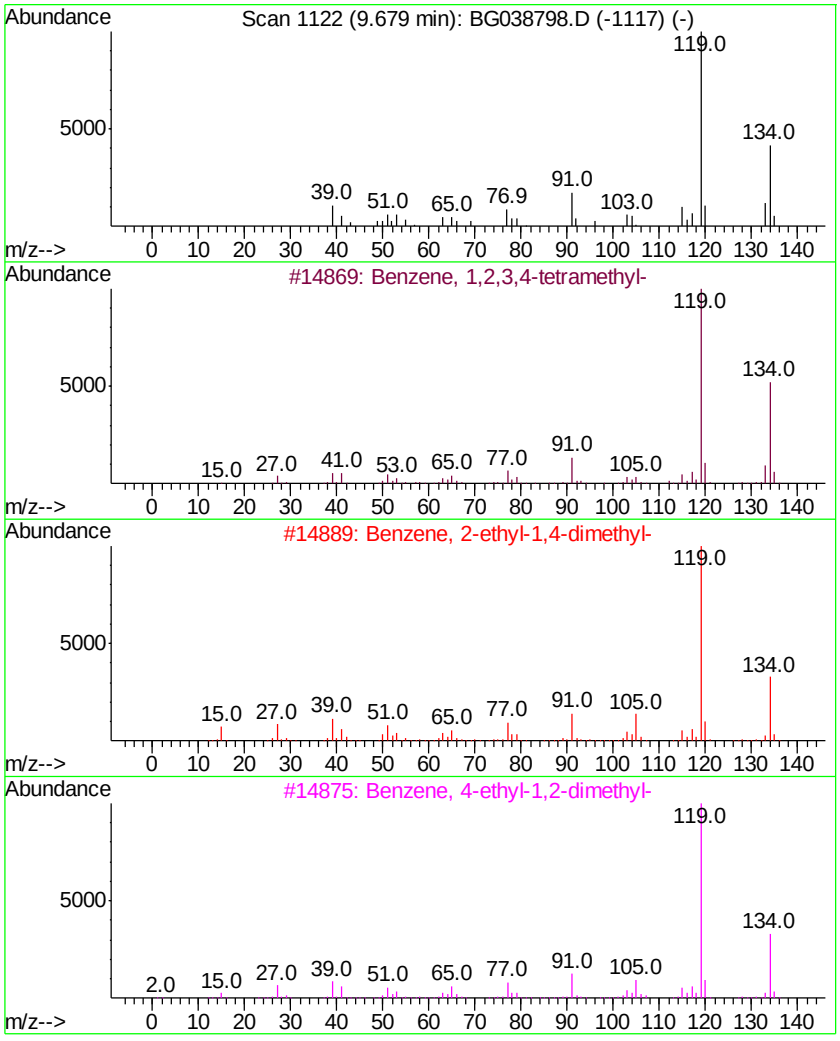
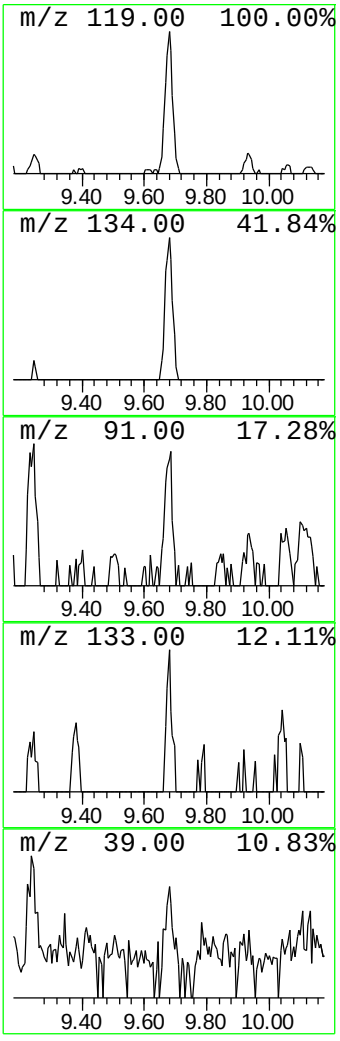
**********
Peak Number 8 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.68 | 2.73 ng | 31505 | Naphthalene-d8 | 10.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



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ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
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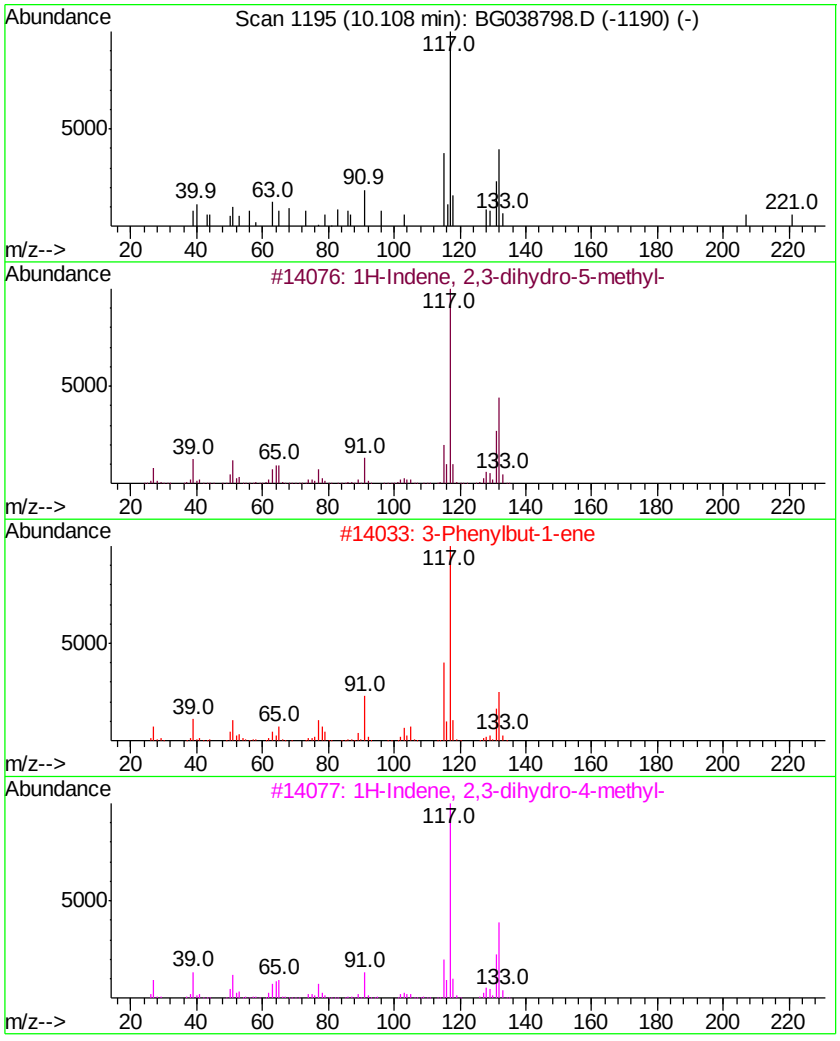
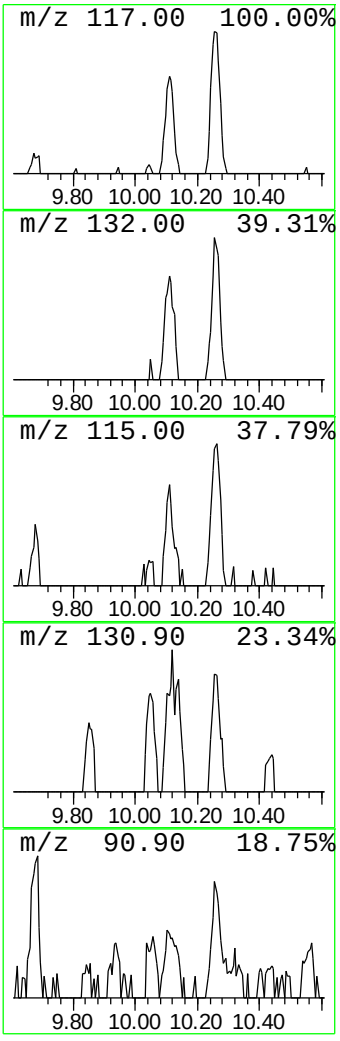
**********

Peak Number 9 1H-Indene, 2,3-dihydro-5-me... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.11 | 2.02 ng | 23351 | Naphthalene-d8 | 10.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 90 |
| 2 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 90 |
| 3 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 87 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 5 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 86 |



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ALS Vial : 11 Sample Multiplier: 1

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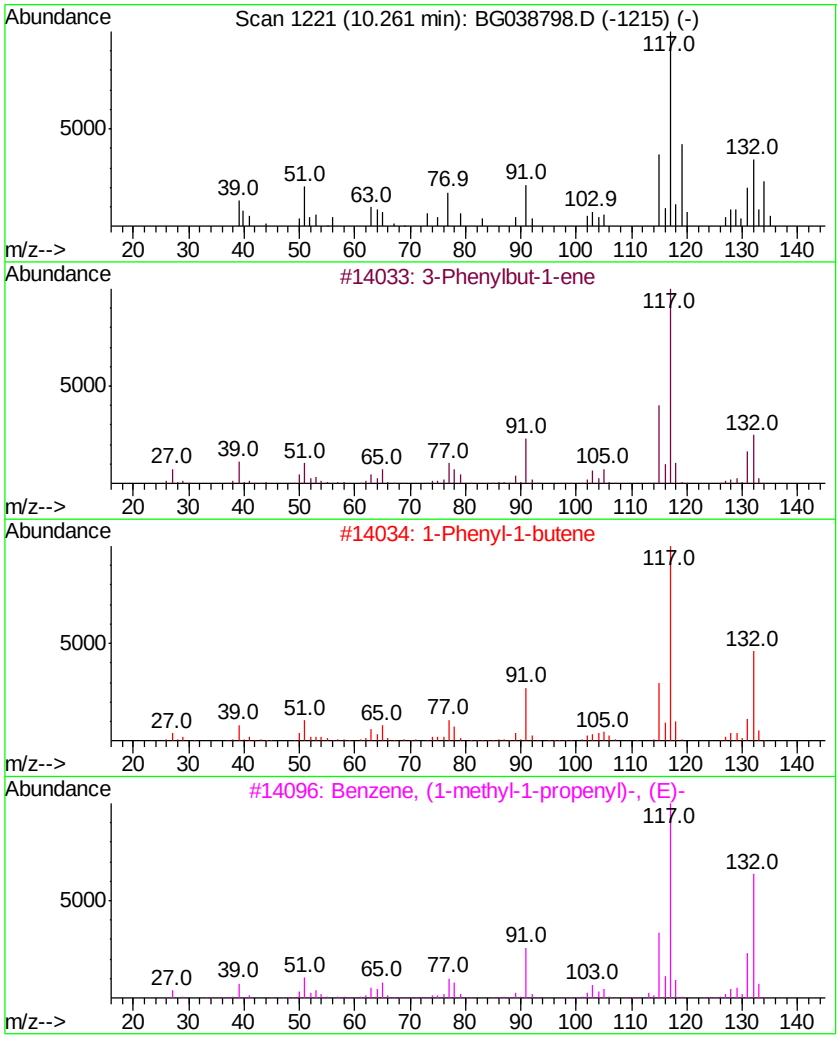
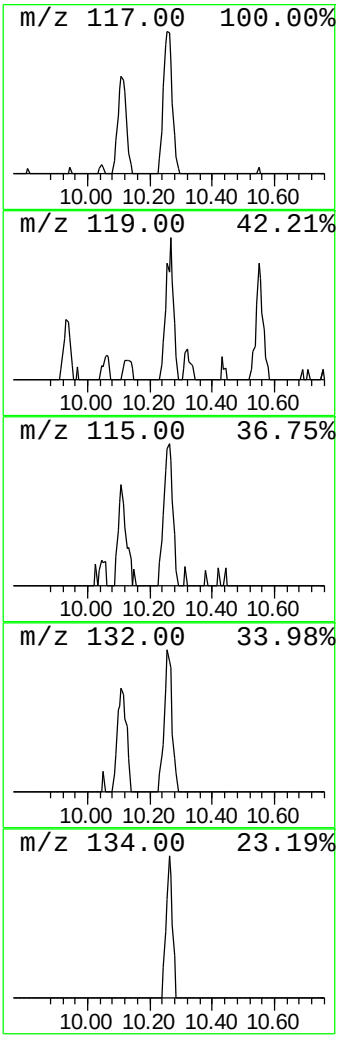
**********

Peak Number 10 3-Phenylbut-1-ene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.26 | 2.72 ng | 31438 | Naphthalene-d8 | 10.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 70 |
| 2 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 64 |
| 3 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 62 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 60 |
| 5 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 55 |



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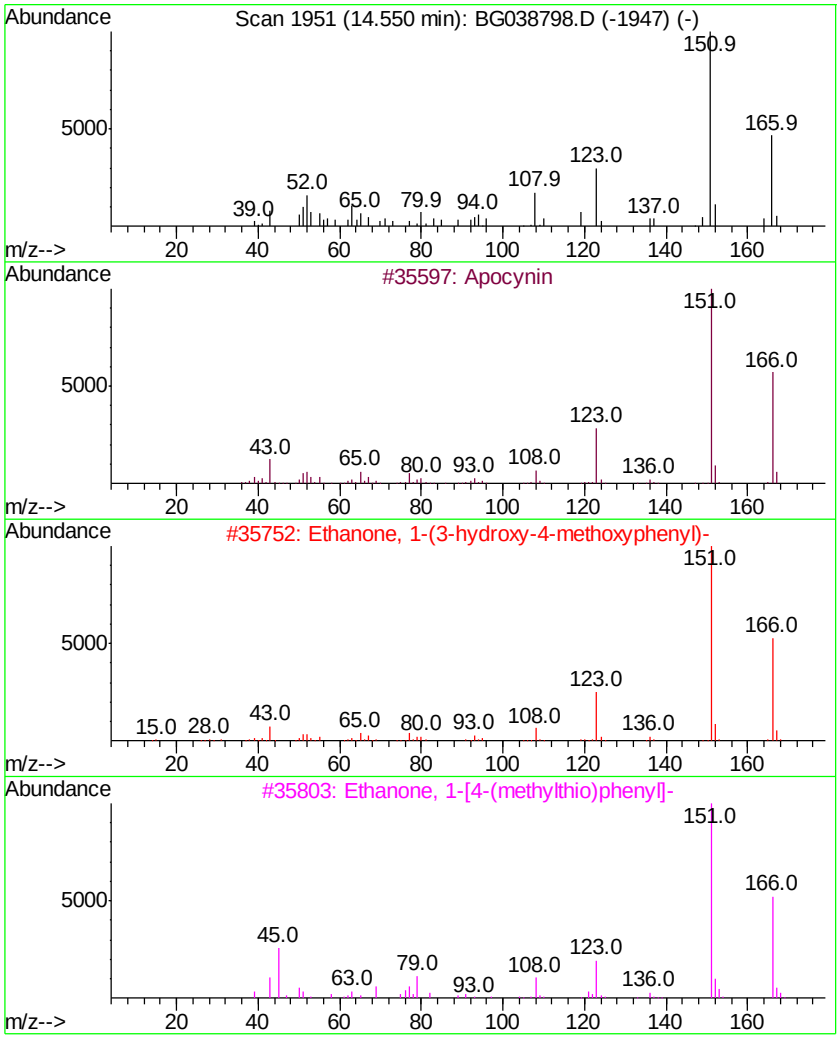
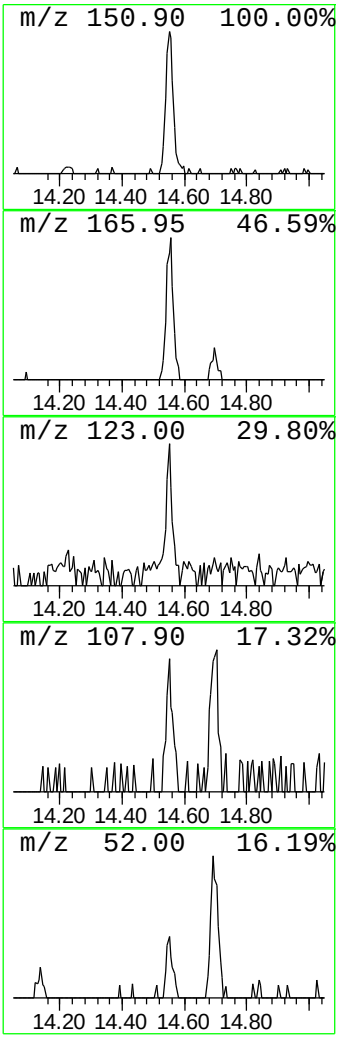
**********

Peak Number 11 Apocynin Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.55 | 2.09 ng | 32484 | Acenaphthene-d10 | 14.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Apocynin | 166 | C9H10O3 | 000498-02-2 | 87 |
| 2 | Ethanone, 1-(3-hydroxy-4-methoxy... | 166 | C9H10O3 | 006100-74-9 | 87 |
| 3 | Ethanone, 1-[4-(methylthio)phenyl]- | 166 | C9H10OS | 001778-09-2 | 78 |
| 4 | t-Butylhydroquinone | 166 | C10H14O2 | 001948-33-0 | 72 |
| 5 | Ethanone, 1-(2-hydroxy-4-methoxy... | 166 | C9H10O3 | 000552-41-0 | 72 |



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ALS Vial : 11 Sample Multiplier: 1

**Instrument :**
BNA_G
**ClientSampleId :**
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TIC Library : C:\Database\NIST11.L
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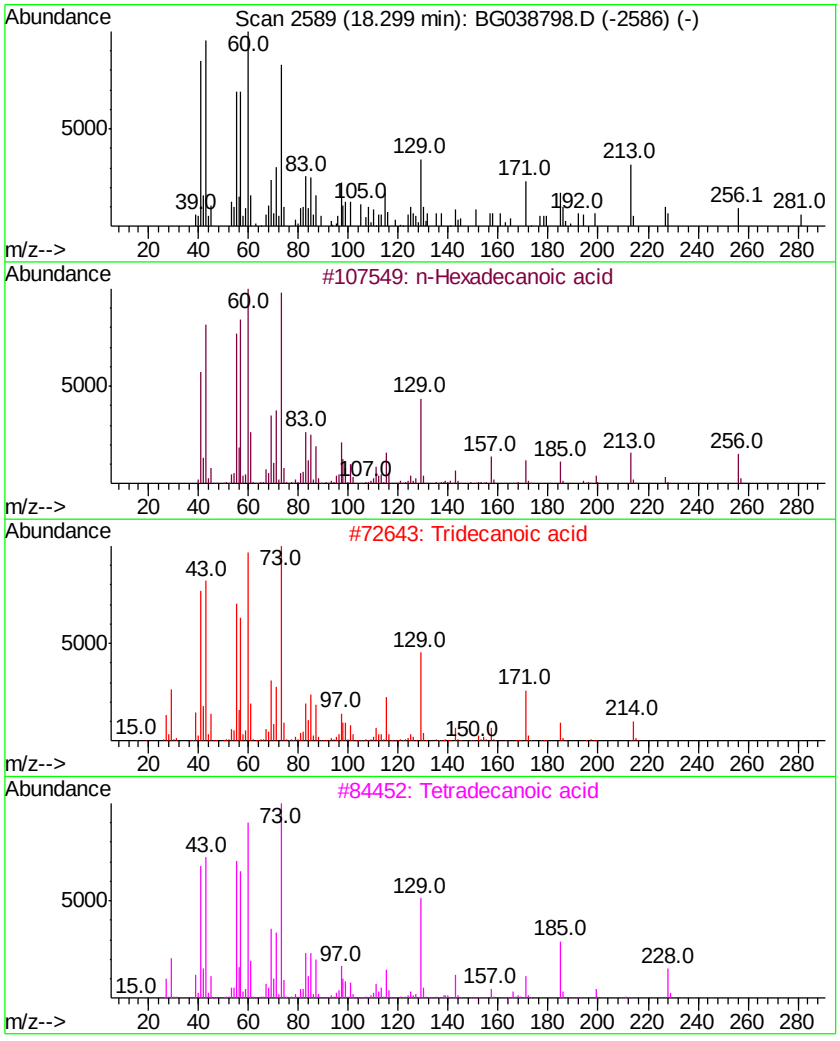
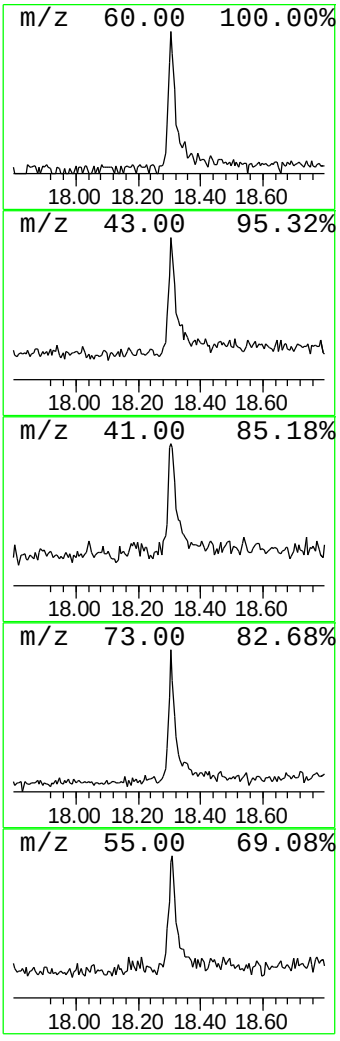
**********

Peak Number 12 n-Hexadecanoic acid Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 18.30 | 4.76 ng | 86286 | Phenanthrene-d10 | 17.45 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 93 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 58 |
| 4 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 50 |
| 5 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 49 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122118\
Data File : BG038798.D
Acq On : 21 Dec 2018 22:44
Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

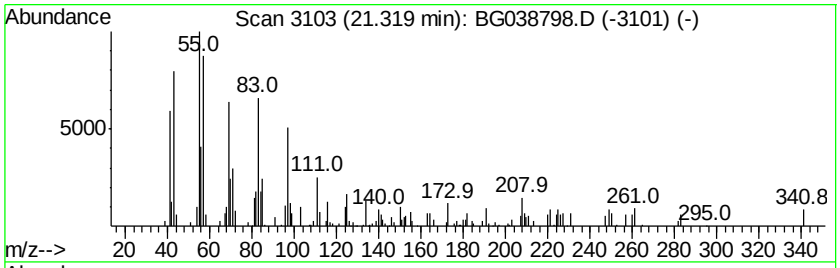
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

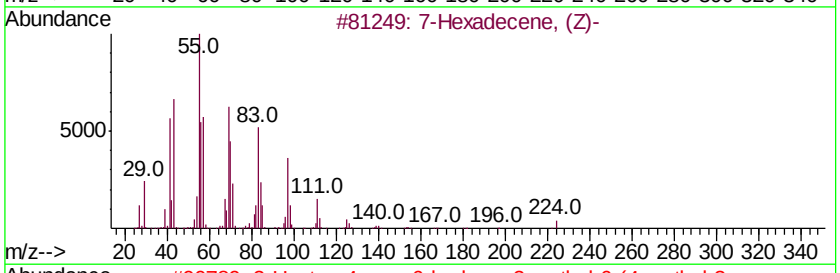
**********

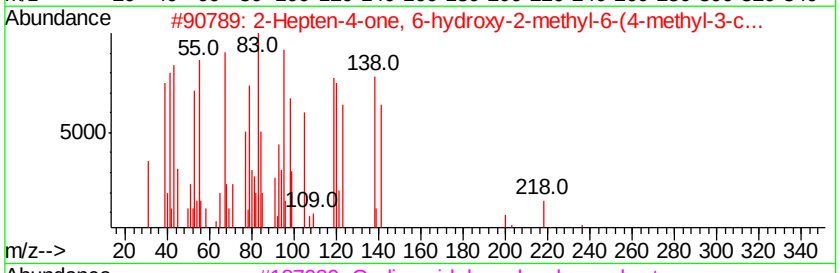
Peak Number 13 7-Hexadecene, (Z)- Concentration Rank 6

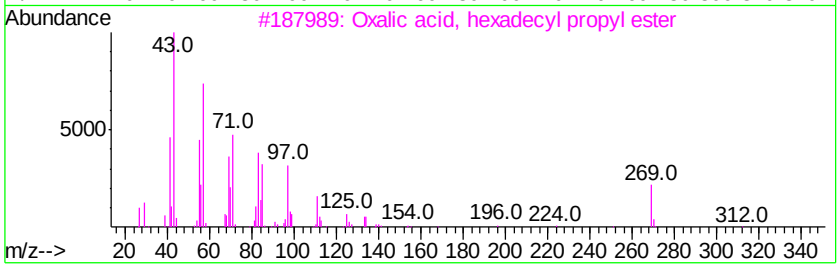
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 21.32 | 3.51 ng | 70459 | Chrysene-d12 | 21.72 |

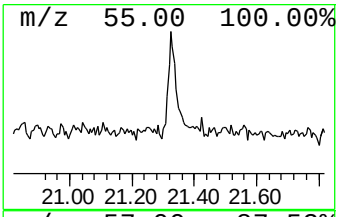
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 7-Hexadecene, (Z)- | 224 | C16H32 | 035507-09-6 | 68 |
| 2 | 2-Hepten-4-one, 6-hydroxy-2-meth... | 236 | C15H24O2 | 038043-98-0 | 64 |
| 3 | Oxalic acid, hexadecyl propyl ester | 356 | C21H40O4 | 1000309-26-9 | 64 |
| 4 | 1-Acetoxynonadecane | 326 | C21H42O2 | 001577-43-1 | 64 |
| 5 | Fumaric acid, hexadecyl propargy... | 378 | C23H38O4 | 1000330-53-7 | 59 |

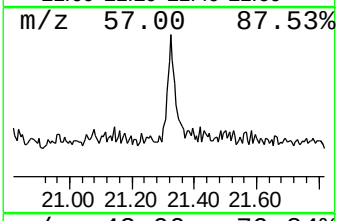


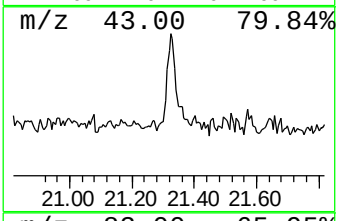



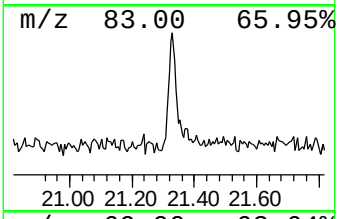



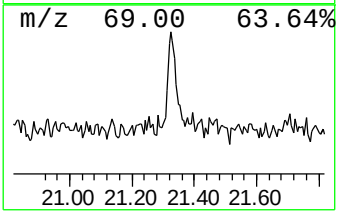



Data Path : Z:\SVOASRV\HPCHEM1\BNA G\DATA\BG122118\
Data File : BG038798.D
Acq On : 21 Dec 2018 22:44
Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

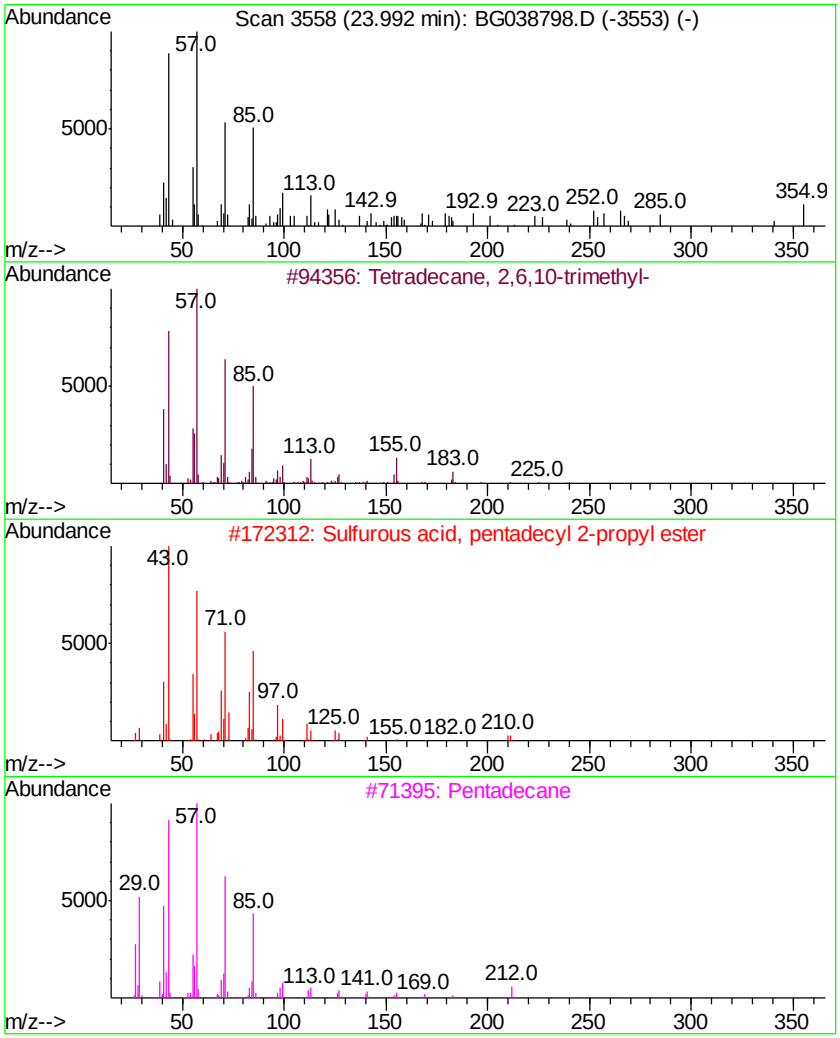
TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

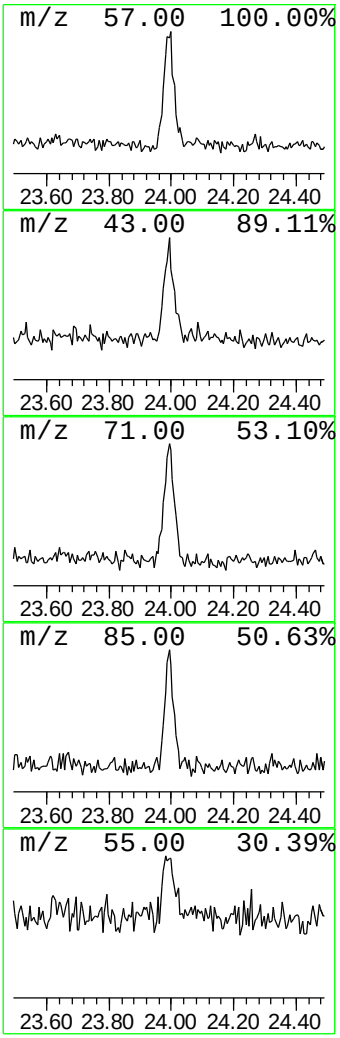
**********

Peak Number 14 Tetradecane, 2,6,10-trimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 23.99 | 2.54 ng | 47554 | Perylene-d12 | 25.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane, 2,6,10-trimethyl- | 240 | C17H36 | 014905-56-7 | 53 |
| 2 | Sulfurous acid, pentadecyl 2-pro... | 334 | C18H38O3S | 1000309-12-6 | 50 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 50 |
| 4 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 50 |
| 5 | Sulfurous acid, butyl decyl ester | 278 | C14H30O3S | 1000309-17-7 | 47 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_G\DATA\BG122118\
Data File : BG038798.D
Acq On : 21 Dec 2018 22:44
Operator : JU/SJ
Sample : J6516-01
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_G
**ClientSampleId :** EXCAVATION-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_G\METHODS\8270-BG121218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methoxy... | 3.18 | 5.2 | ng | 36594 | 1 | 8.06 | 139706 | 20.0 |
| 2-Pentanone, 4-hy... | 5.14 | 3.3 | ng | 23149 | 1 | 8.06 | 139706 | 20.0 |
| unknown7.59 | 7.59 | 97.0 | ng | 677477 | 1 | 8.06 | 139706 | 20.0 |
| unknown8.43 | 8.43 | 2.8 | ng | 19539 | 1 | 8.06 | 139706 | 20.0 |
| Benzene, 1,2,3,4-... | 9.68 | 2.7 | ng | 31505 | 2 | 10.88 | 230914 | 20.0 |
| 1H-Indene, 2,3-di... | 10.11 | 2.0 | ng | 23351 | 2 | 10.88 | 230914 | 20.0 |
| 3-Phenylbut-1-ene | 10.26 | 2.7 | ng | 31438 | 2 | 10.88 | 230914 | 20.0 |
| Apocynin | 14.55 | 2.1 | ng | 32484 | 3 | 14.70 | 311463 | 20.0 |
| n-Hexadecanoic acid | 18.30 | 4.8 | ng | 86286 | 4 | 17.45 | 362899 | 20.0 |
| 7-Hexadecene, (Z)- | 21.32 | 3.5 | ng | 70459 | 5 | 21.72 | 402035 | 20.0 |
| Tetradecane, 2,6,... | 23.99 | 2.5 | ng | 47554 | 6 | 25.04 | 374094 | 20.0 |