LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-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_F\METHODS\8270-BF092218.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 | 4.881 | 472 | 475 | 482 | rBV | 56993 | 70792 | 2.63% | 0.303% |
| 2 | 5.310 | 543 | 548 | 551 | rBV | 1464399 | 1407805 | 52.27% | 6.029% |
| 3 | 6.340 | 719 | 723 | 726 | rBV | 1386039 | 1073306 | 39.85% | 4.597% |
| 4 | 6.475 | 742 | 746 | 749 | rBV | 2541245 | 2254896 | 83.72% | 9.657% |
| 5 | 6.704 | 782 | 785 | 789 | rBV | 794534 | 636790 | 23.64% | 2.727% |
| 6 | 6.863 | 808 | 812 | 815 | rBV | 2285209 | 1953809 | 72.54% | 8.368% |
| 7 | 7.269 | 874 | 881 | 884 | rBV | 1852388 | 1578980 | 58.62% | 6.762% |
| 8 | 7.987 | 1000 | 1003 | 1007 | rBV | 1008330 | 799430 | 29.68% | 3.424% |
| 9 | 8.239 | 1043 | 1046 | 1049 | rVB | 173767 | 120237 | 4.46% | 0.515% |
| 10 | 8.675 | 1117 | 1120 | 1126 | rBV3 | 47869 | 89119 | 3.31% | 0.382% |
| 11 | 8.939 | 1160 | 1165 | 1169 | rBV | 92203 | 144435 | 5.36% | 0.619% |
| 12 | 8.981 | 1169 | 1172 | 1175 | rVB3 | 74732 | 85687 | 3.18% | 0.367% |
| 13 | 9.022 | 1175 | 1179 | 1182 | rBV | 87262 | 102342 | 3.80% | 0.438% |
| 14 | 9.063 | 1182 | 1186 | 1190 | rBV | 2898153 | 2693427 | 100.00% | 11.535% |
| 15 | 9.145 | 1198 | 1200 | 1203 | rBV2 | 200251 | 193729 | 7.19% | 0.830% |
| 16 | 9.175 | 1203 | 1205 | 1207 | rVB | 118841 | 82877 | 3.08% | 0.355% |
| 17 | 9.269 | 1217 | 1221 | 1225 | rVB2 | 167055 | 234595 | 8.71% | 1.005% |
| 18 | 9.451 | 1250 | 1252 | 1255 | rBV2 | 312531 | 275788 | 10.24% | 1.181% |
| 19 | 9.510 | 1259 | 1262 | 1267 | rVB5 | 129954 | 158422 | 5.88% | 0.678% |
| 20 | 9.610 | 1276 | 1279 | 1282 | rBV5 | 167877 | 212591 | 7.89% | 0.910% |
| 21 | 9.657 | 1284 | 1287 | 1290 | rVB | 497849 | 410381 | 15.24% | 1.758% |
| 22 | 9.686 | 1290 | 1292 | 1295 | rBV2 | 134315 | 166542 | 6.18% | 0.713% |
| 23 | 9.739 | 1295 | 1301 | 1307 | rBV2 | 938581 | 1160595 | 43.09% | 4.971% |
| 24 | 9.786 | 1307 | 1309 | 1314 | rVB | 95240 | 125171 | 4.65% | 0.536% |
| 25 | 10.010 | 1345 | 1347 | 1352 | rBV3 | 148672 | 187773 | 6.97% | 0.804% |
| 26 | 10.063 | 1354 | 1356 | 1357 | rVV2 | 105027 | 84906 | 3.15% | 0.364% |
| 27 | 10.081 | 1357 | 1359 | 1362 | rVB2 | 182811 | 149132 | 5.54% | 0.639% |
| 28 | 10.116 | 1362 | 1365 | 1367 | rBV4 | 156557 | 168010 | 6.24% | 0.720% |
| 29 | 10.151 | 1368 | 1371 | 1374 | rVB2 | 446470 | 386155 | 14.34% | 1.654% |
| 30 | 10.204 | 1378 | 1380 | 1382 | rVV2 | 99725 | 75724 | 2.81% | 0.324% |
| 31 | 10.281 | 1391 | 1393 | 1395 | rBV2 | 132735 | 137572 | 5.11% | 0.589% |
| 32 | 10.522 | 1431 | 1434 | 1438 | rBV | 1433465 | 1421889 | 52.79% | 6.090% |
| 33 | 10.622 | 1449 | 1451 | 1454 | rBV | 177838 | 219502 | 8.15% | 0.940% |
| 34 | 10.657 | 1454 | 1457 | 1458 | rVV2 | 274365 | 294650 | 10.94% | 1.262% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-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_F\METHODS\8270-BF092218.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.675 | 1458 | 1460 | 1464 | rVB | 421681 | 372159 | 13.82% | 1.594% |
| 36 | 10.804 | 1480 | 1482 | 1484 | rVB | 252729 | 169539 | 6.29% | 0.726% |
| 37 | 10.892 | 1494 | 1497 | 1499 | rBV2 | 269759 | 242291 | 9.00% | 1.038% |
| 38 | 11.216 | 1549 | 1552 | 1555 | rBV | 664888 | 582011 | 21.61% | 2.493% |
| 39 | 11.445 | 1589 | 1591 | 1594 | rBV | 326587 | 353392 | 13.12% | 1.514% |
| 40 | 11.622 | 1618 | 1621 | 1624 | rBV | 1207563 | 945269 | 35.10% | 4.048% |
| 41 | 12.045 | 1690 | 1693 | 1701 | rBV2 | 1158811 | 1527521 | 56.71% | 6.542% |

Sum of corrected areas: 23349241

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
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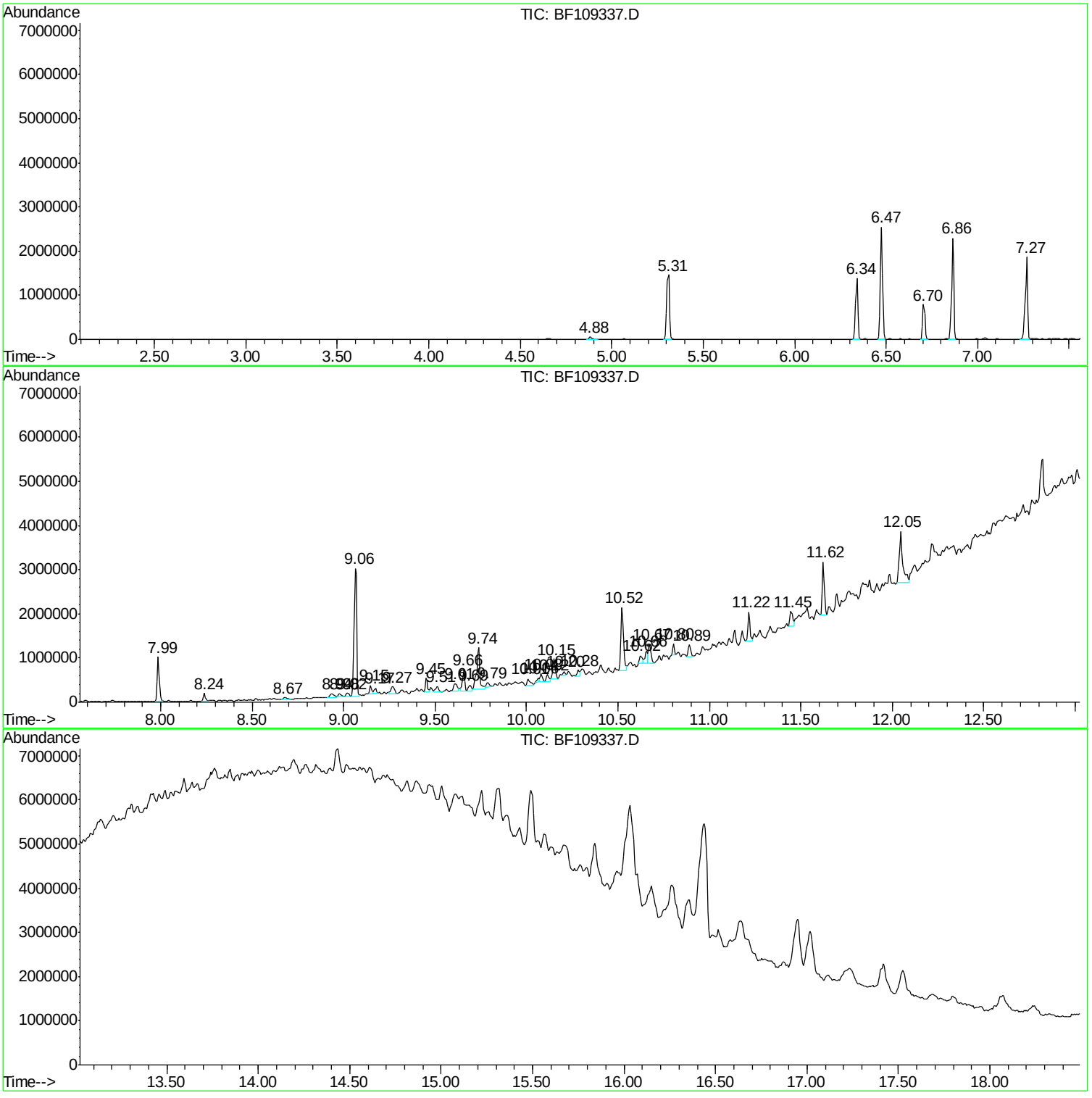
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

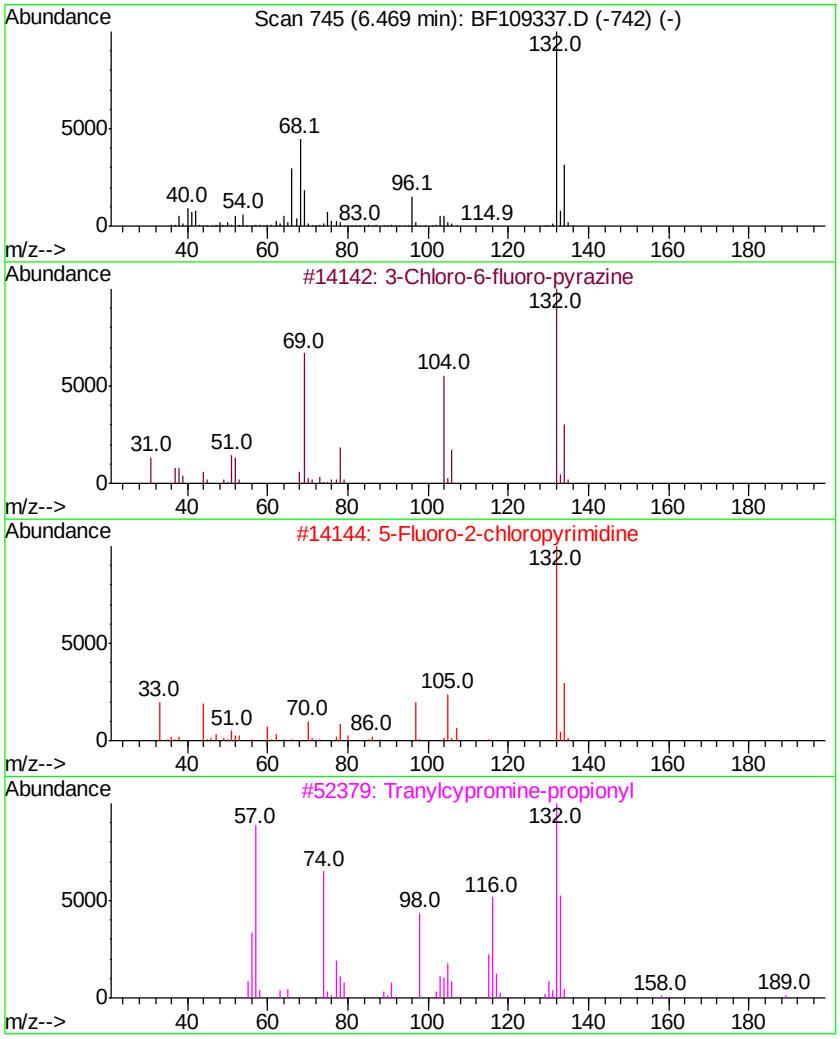
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

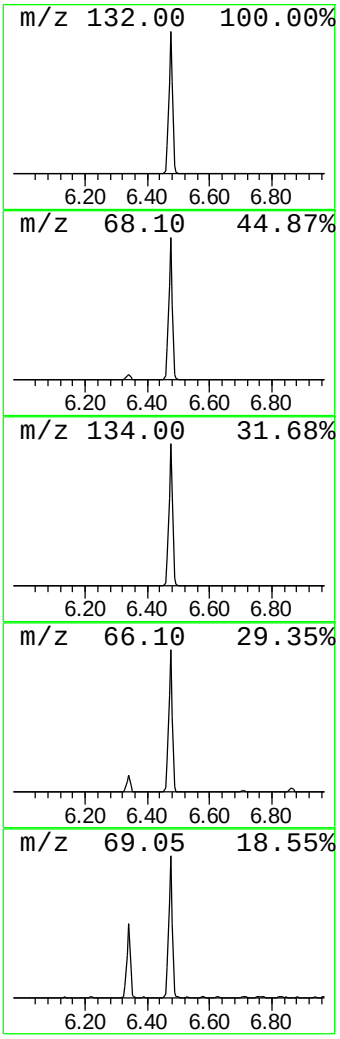
**********

Peak Number 1 unknown6.47 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.47 | 70.82 ng | 2254900 | 1,4-Dichlorobenzene-d4 | 6.70 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 16 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

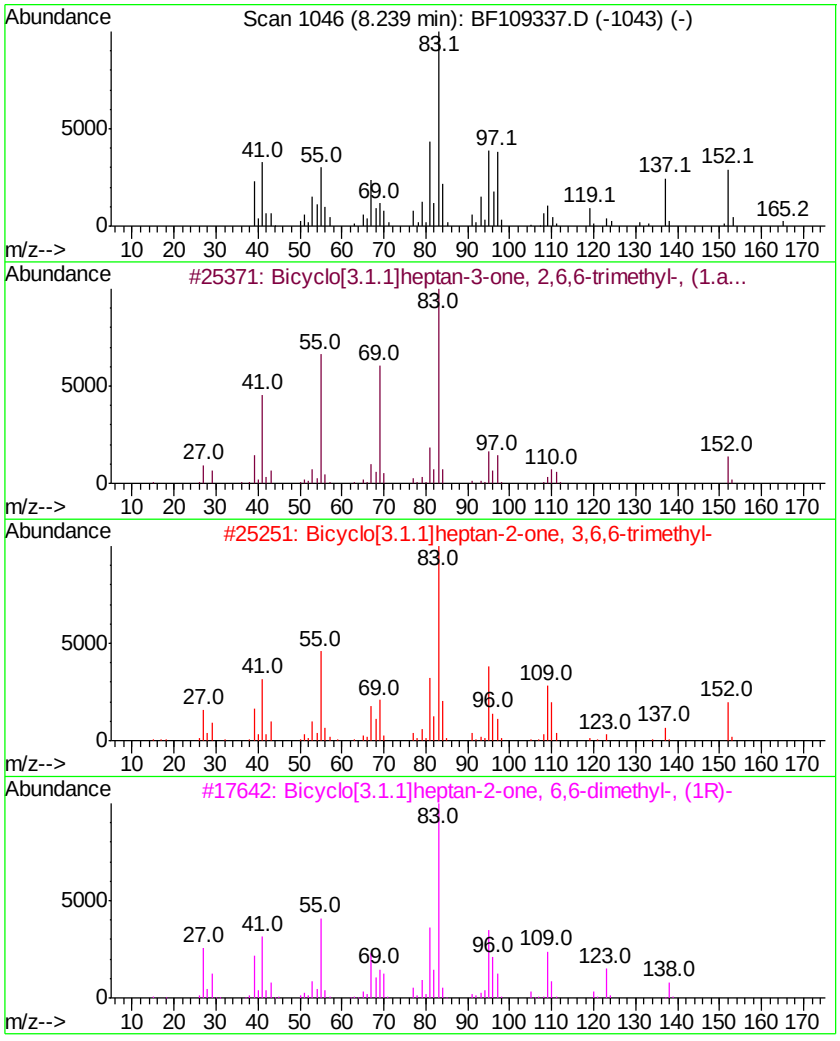
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

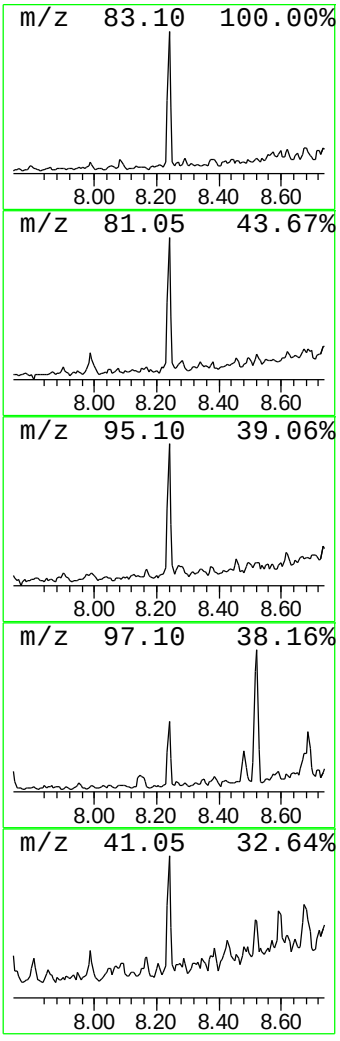
**********

Peak Number 3 Bicyclo[3.1.1]heptan-3-one,... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.24 | 3.01 ng | 120237 | Naphthalene-d8 | 7.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.1.1]heptan-3-one, 2,6,... | 152 | C10H16O | 000547-60-4 | 53 |
| 2 | Bicyclo[3.1.1]heptan-2-one, 3,6,... | 152 | C10H16O | 016022-08-5 | 40 |
| 3 | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O | 038651-65-9 | 38 |
| 4 | Bicyclo[3.1.1]heptan-2-one, 6,6-... | 138 | C9H14O | 024903-95-5 | 32 |
| 5 | Spiro[2.3]hexane-5-carboxylic ac... | 278 | C18H30O2 | 1000152-25-7 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

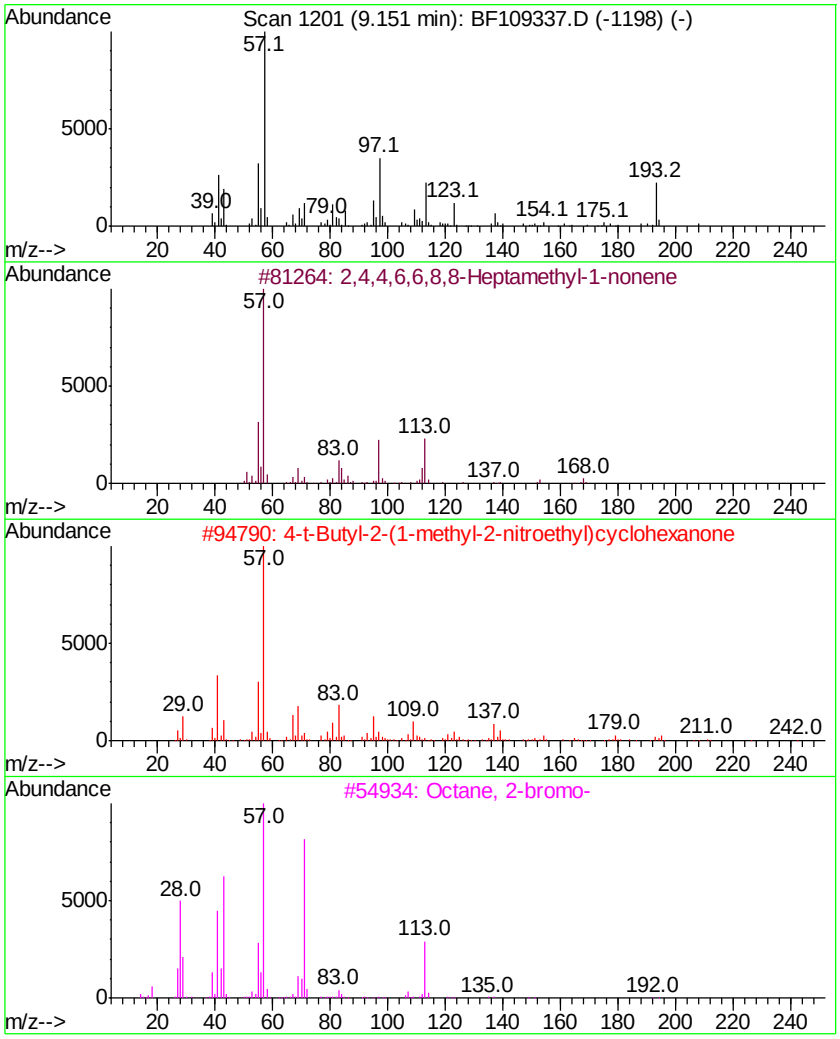
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

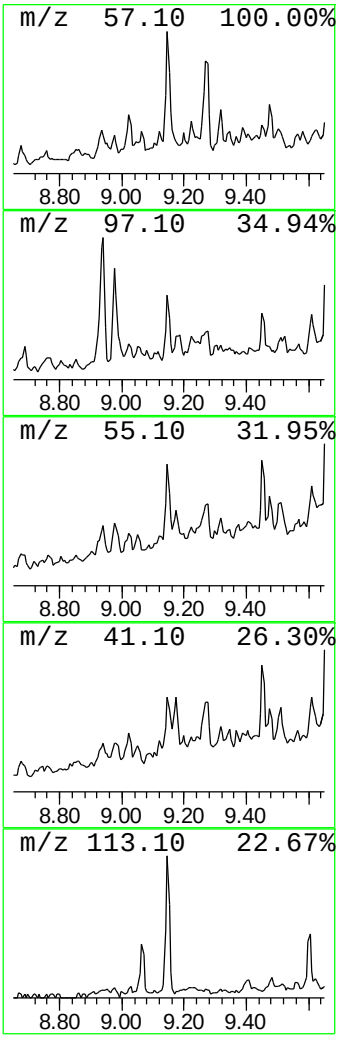
**********

Peak Number 4 unknown9.15 Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.15 | 3.34 ng | 193729 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,4,6,6,8,8-Heptamethyl-1-nonene | 224 | C16H32 | 015796-04-0 | 38 |
| 2 | 4-t-Butyl-2-(1-methyl-2-nitroeth... | 241 | C13H23NO3 | 1000192-74-8 | 27 |
| 3 | Octane, 2-bromo- | 192 | C8H17Br | 000557-35-7 | 22 |
| 4 | Cyclohexane, 1,1'-[1,2-bis(1,1-d... | 306 | C22H42 | 065149-85-1 | 22 |
| 5 | 2,4,4-Trimethyl-1-pentanol, trif... | 226 | C10H17F3O2 | 1000365-19-5 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

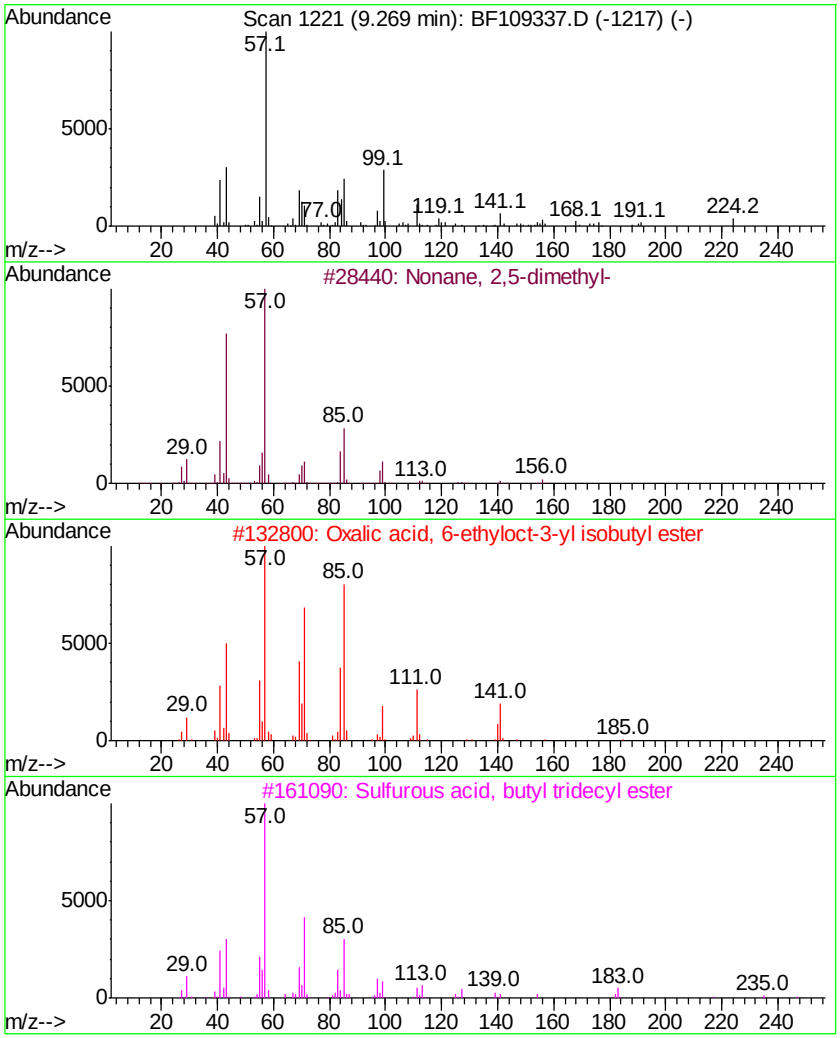
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

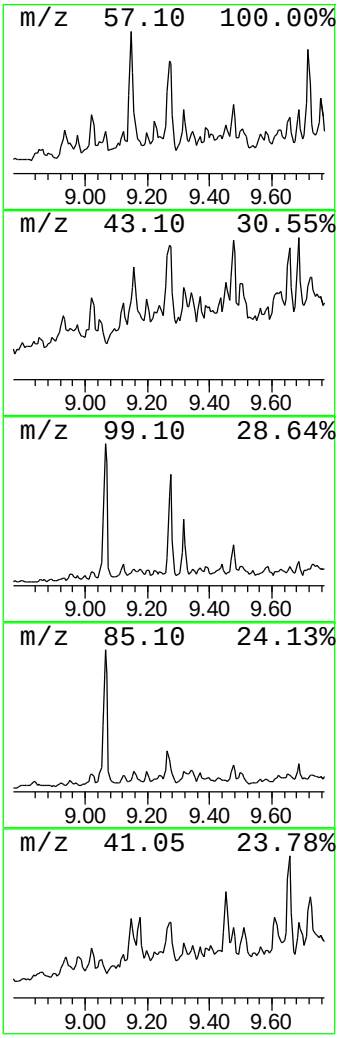
**********

Peak Number 5 Nonane, 2,5-dimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.27 | 4.04 ng | 234595 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2,5-dimethyl- | 156 | C11H24 | 017302-27-1 | 52 |
| 2 | Oxalic acid, 6-ethyloct-3-yl iso... | 286 | C16H30O4 | 1000309-34-1 | 47 |
| 3 | Sulfurous acid, butyl tridecyl e... | 320 | C17H36O3S | 1000309-18-0 | 43 |
| 4 | Octane, 2,5,6-trimethyl- | 156 | C11H24 | 062016-14-2 | 43 |
| 5 | Sulfurous acid, butyl tetradecyl... | 334 | C18H38O3S | 1000309-18-1 | 43 |



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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
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Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

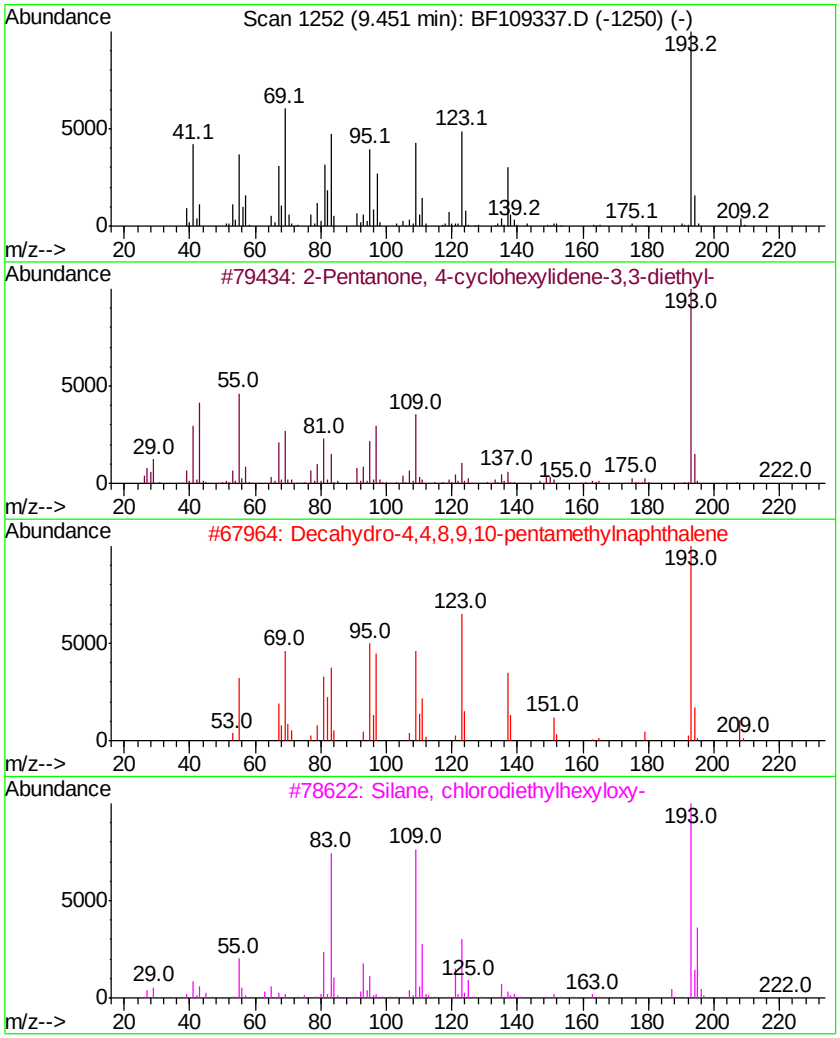
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

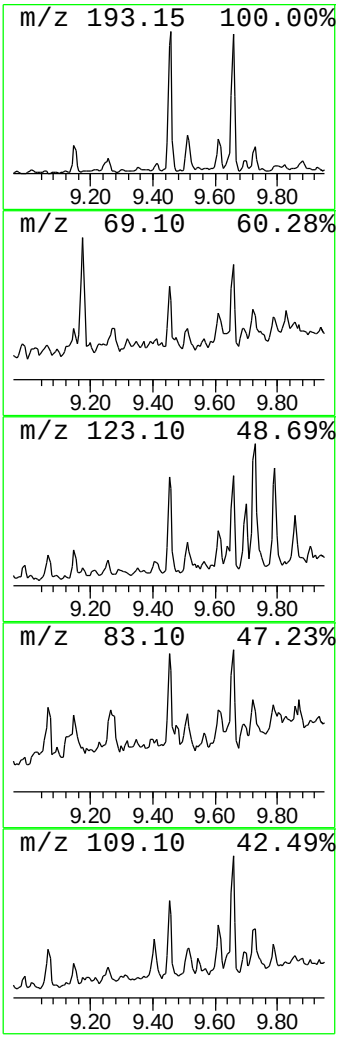
**********

Peak Number 6 unknown9.45 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.45 | 4.75 ng | 275788 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-cyclohexylidene-3... | 222 | C15H26O | 313253-65-5 | 38 |
| 2 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 38 |
| 3 | Silane, chlorodiethylhexyloxy- | 222 | C10H23ClOSi | 1000363-74-4 | 38 |
| 4 | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 | C15H28 | 054832-83-6 | 37 |
| 5 | 1-(p-Fluorophenyl)-4-piperidone | 193 | C11H12FNO | 1000238-56-7 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

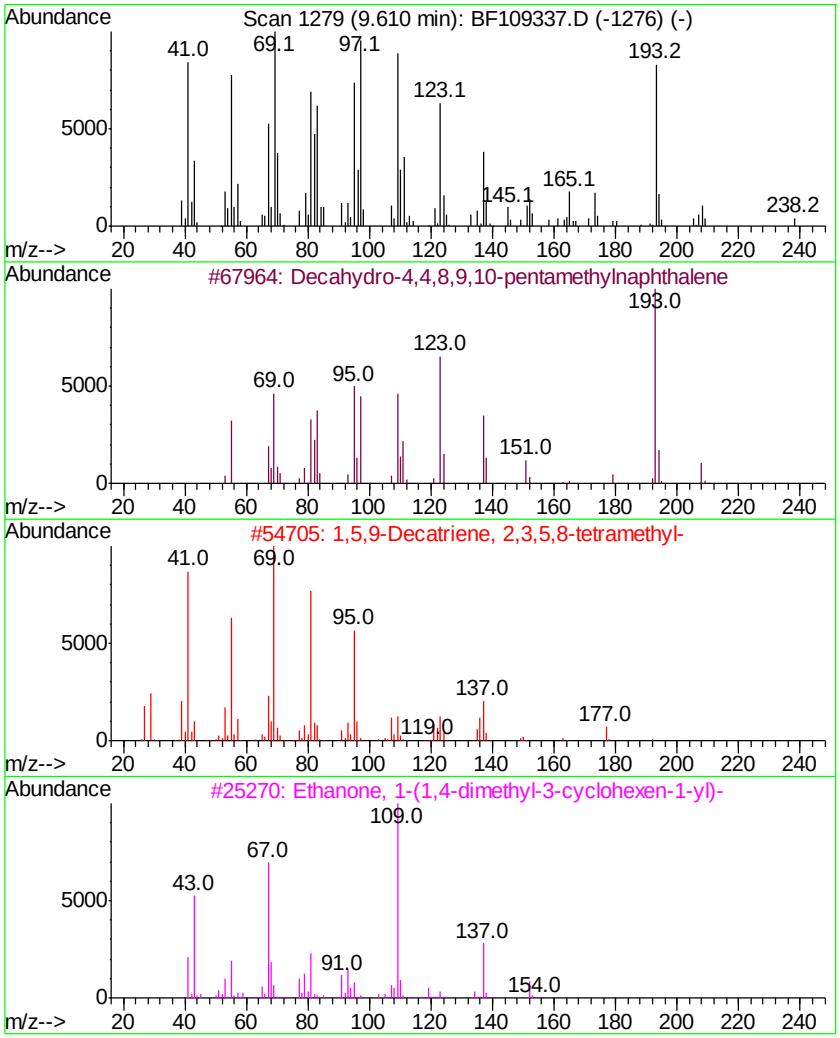
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

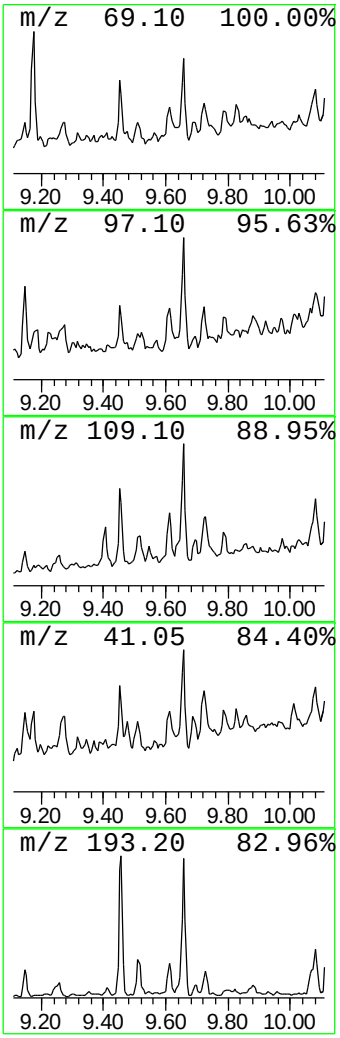
**********

Peak Number 7 Decahydro-4,4,8,9,10-pentam... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.61 | 3.66 ng | 212591 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decahydro-4,4,8,9,10-pentamethyl... | 208 | C15H28 | 080655-44-3 | 92 |
| 2 | 1,5,9-Decatriene, 2,3,5,8-tetram... | 192 | C14H24 | 230646-72-7 | 25 |
| 3 | Ethanone, 1-(1,4-dimethyl-3-cycl... | 152 | C10H16O | 043219-68-7 | 25 |
| 4 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 004755-33-3 | 25 |
| 5 | 1H-Pyrazole, 1-methyl-4-(4,4,5,5... | 208 | C10H17BN2O2 | 1000319-69-0 | 25 |



Library Search Compound Report

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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
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Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

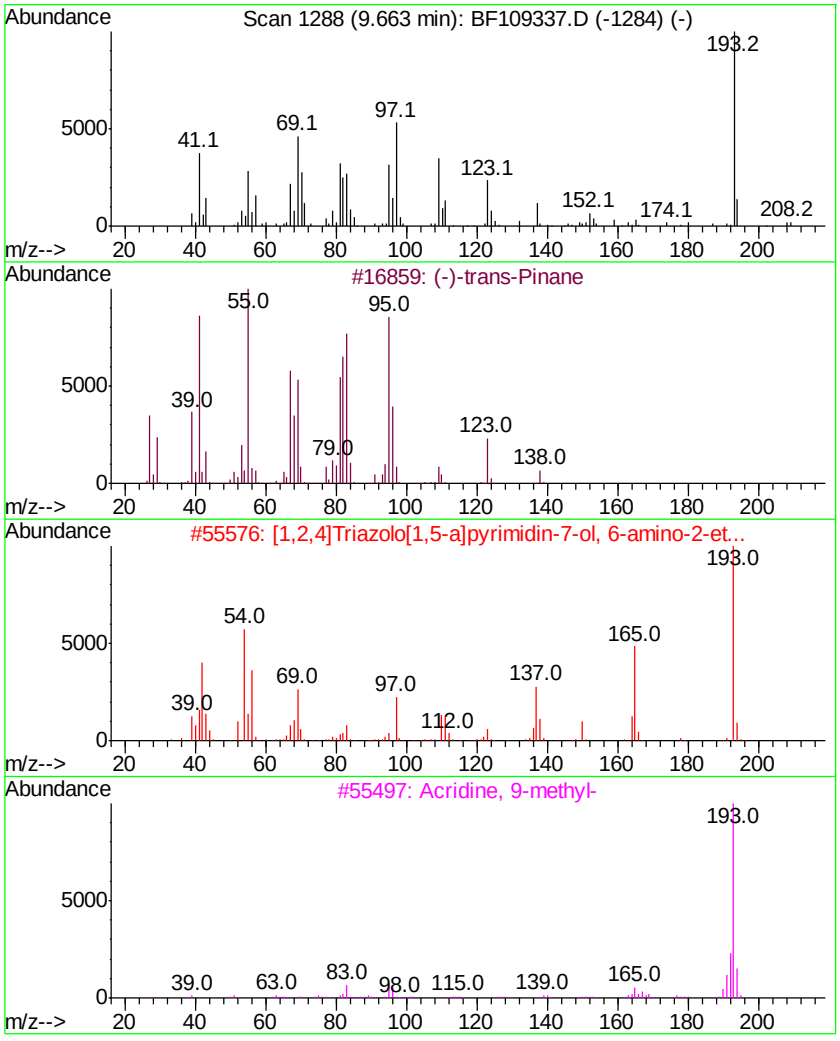
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

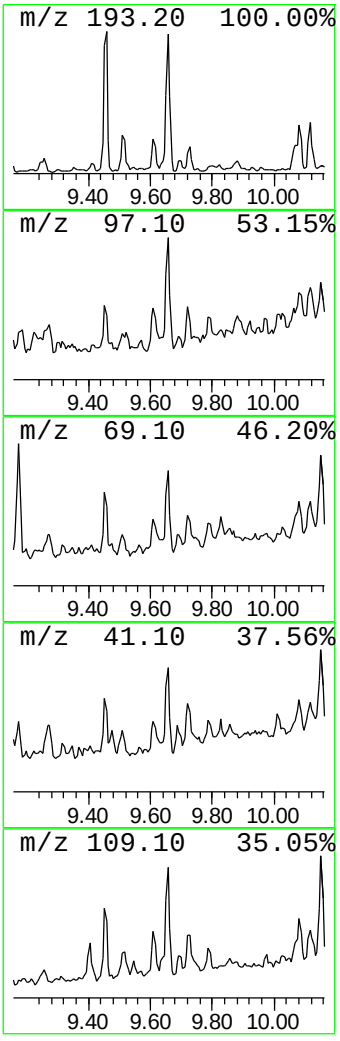
**********

Peak Number 8 unknown9.66 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 7.07 ng | 410381 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (-)-trans-Pinane | 138 | C10H18 | 033626-25-4 | 30 |
| 2 | [1,2,4]Triazolo[1,5-a]pyrimidin-... | 193 | C8H11N5O | 1000351-50-1 | 27 |
| 3 | Acridine, 9-methyl- | 193 | C14H11N | 000611-64-3 | 27 |
| 4 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 000473-55-2 | 25 |
| 5 | Bicyclo[3.1.1]heptane, 2,6,6-tri... | 138 | C10H18 | 006876-13-7 | 25 |



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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

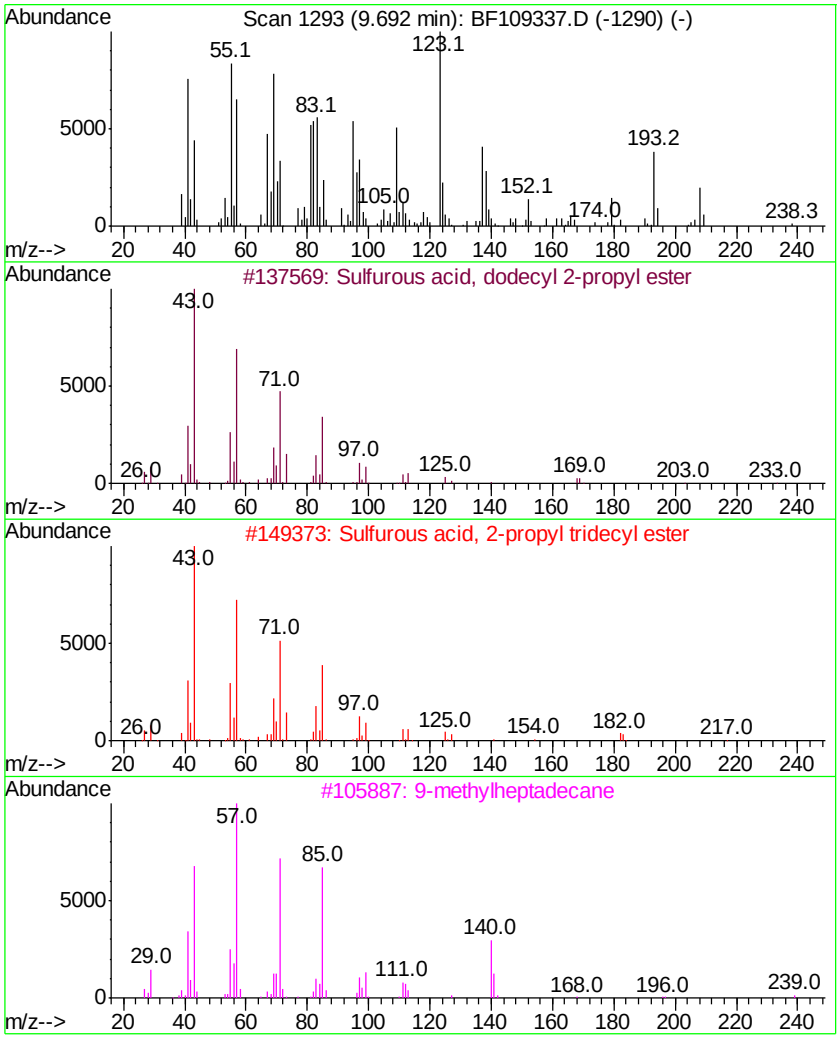
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

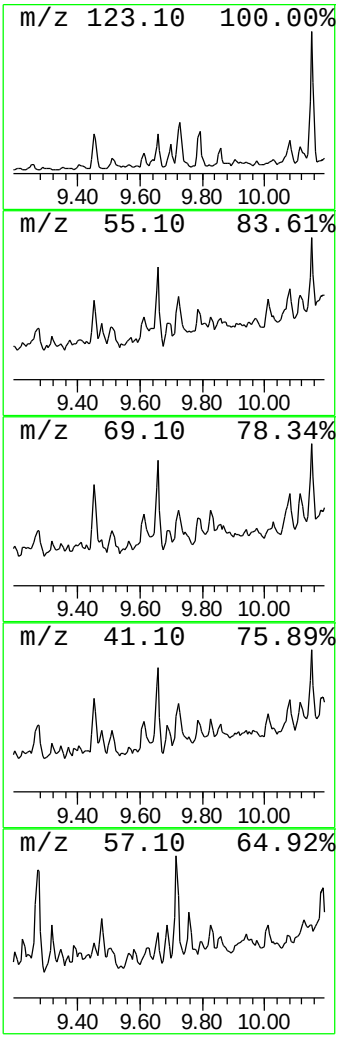
**********

Peak Number 9 Sulfurous acid, dodecyl 2-p... Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.69 | 2.87 ng | 166542 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Sulfurous acid, dodecyl 2-propyl... | 292 | C15H32O3S | 1000309-12-3 | 50 |
| 2 | Sulfurous acid, 2-propyl tridecy... | 306 | C16H34O3S | 1000309-12-4 | 50 |
| 3 | 9-methylheptadecane | 254 | C18H38 | 026741-18-4 | 49 |
| 4 | 2-methyltetracosane | 352 | C25H52 | 1000376-72-6 | 47 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

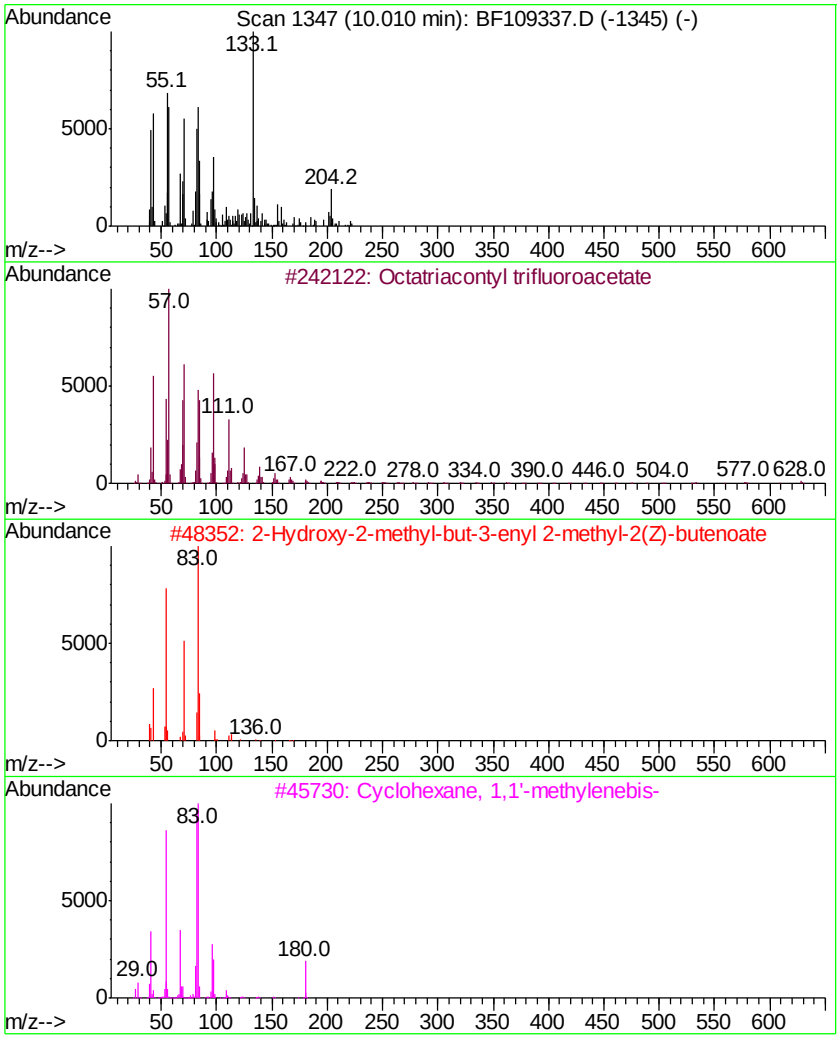
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

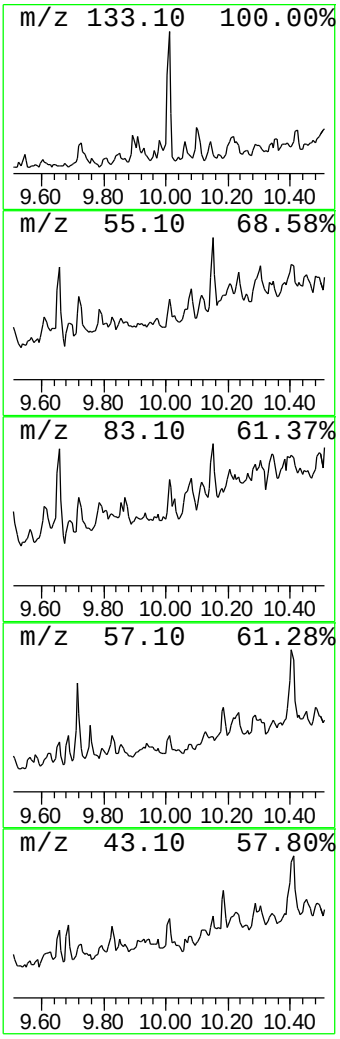
**********

Peak Number 10 unknown10.01 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.01 | 3.24 ng | 187773 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octatriacontyl trifluoroacetate | 647 | C40H77F3O2 | 1000351-88-7 | 22 |
| 2 | 2-Hydroxy-2-methyl-but-3-enyl 2-... | 184 | C10H16O3 | 080758-67-4 | 14 |
| 3 | Cyclohexane, 1,1'-methylenebis- | 180 | C13H24 | 003178-23-2 | 14 |
| 4 | Hexatriacontyl pentafluoropropio... | 669 | C39H73F5O2 | 1000351-89-0 | 14 |
| 5 | Tetratriacontyl heptafluorobutyrate | 691 | C38H69F7O2 | 1000351-84-1 | 14 |



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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

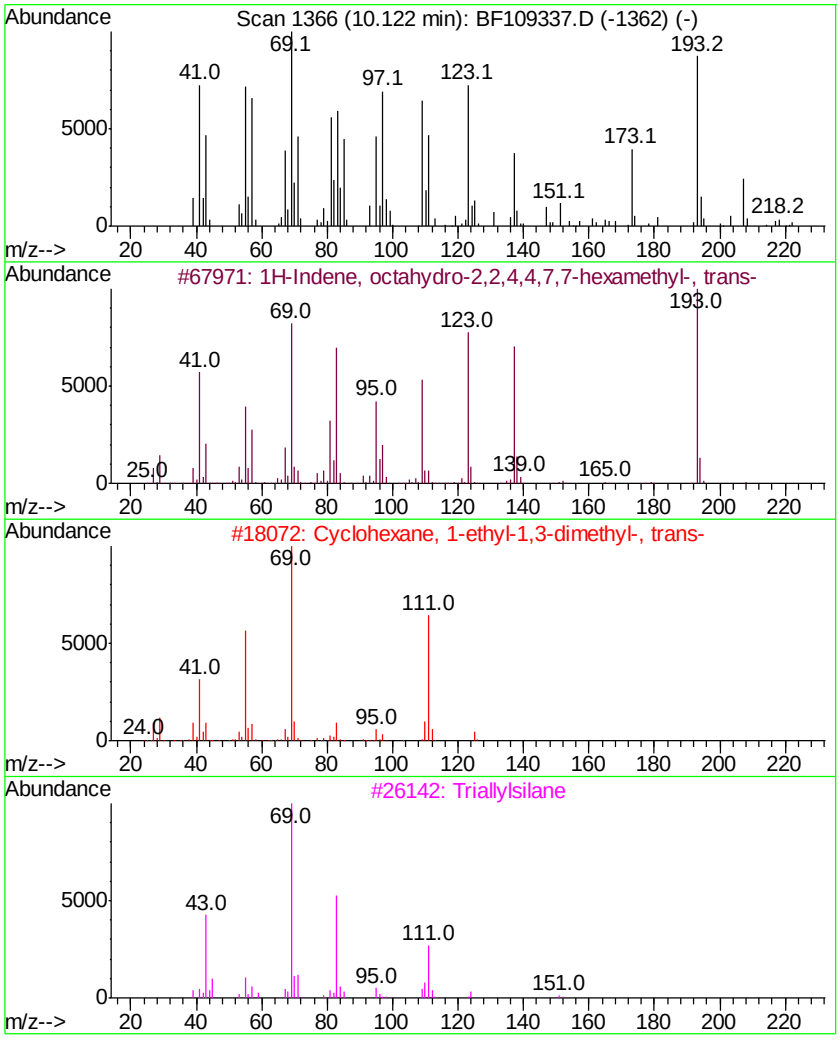
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

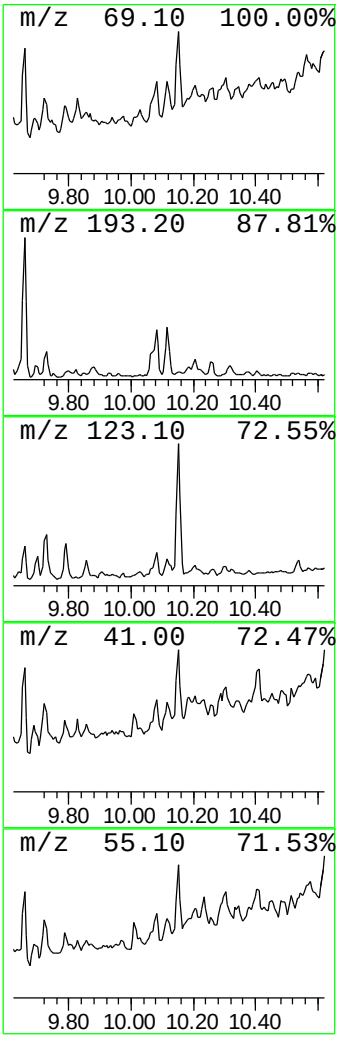
**********

Peak Number 11 unknown10.12 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.12 | 2.90 ng | 168010 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, octahydro-2,2,4,4,7,7... | 208 | C15H28 | 054832-83-6 | 38 |
| 2 | Cyclohexane, 1-ethyl-1,3-dimethy... | 140 | C10H20 | 062238-29-3 | 14 |
| 3 | Triallylsilane | 152 | C9H16Si | 001116-62-7 | 14 |
| 4 | 1-(p-Fluorophenyl)-4-piperidone | 193 | C11H12FNO | 1000238-56-7 | 14 |
| 5 | 2,3,4-Trimethyl-hex-3-enal | 140 | C9H16O | 1000193-72-9 | 14 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

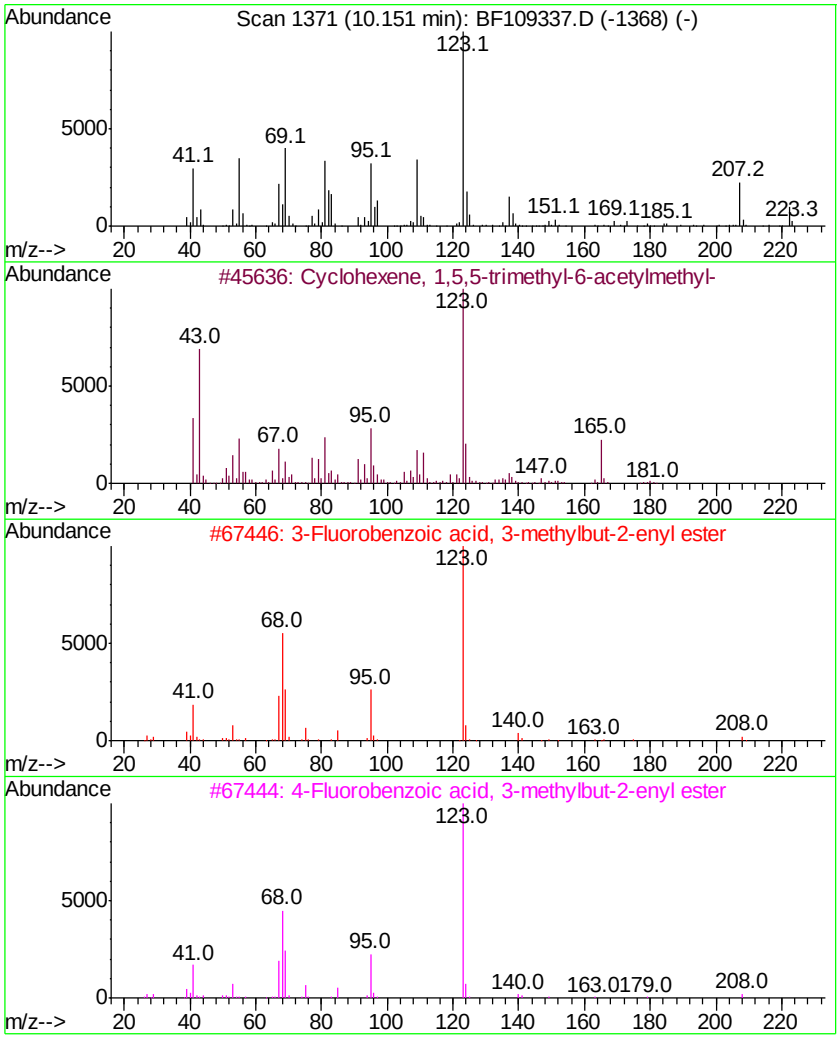
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

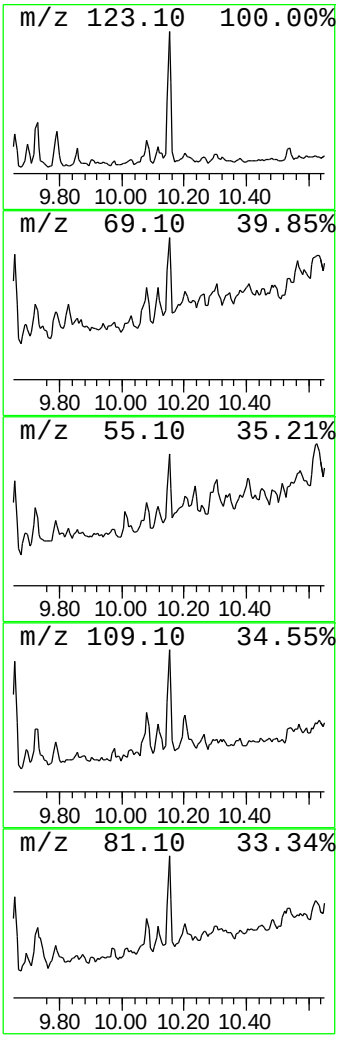
**********

Peak Number 12 Cyclohexene, 1,5,5-trimethy... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.15 | 6.65 ng | 386155 | Acenaphthene-d10 | 9.74 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexene, 1,5,5-trimethyl-6-a... | 180 | C12H20O | 211563-96-1 | 50 |
| 2 | 3-Fluorobenzoic acid, 3-methylbu... | 208 | C12H13FO2 | 154559-38-3 | 49 |
| 3 | 4-Fluorobenzoic acid, 3-methylbu... | 208 | C12H13FO2 | 1000299-15-1 | 47 |
| 4 | 1-Trimethylsilylpent-1-en-4-yne | 138 | C8H14Si | 079516-25-9 | 47 |
| 5 | 4-Fluorobenzoic acid, 2-pentadec... | 350 | C22H35FO2 | 1000280-68-3 | 43 |



# Library Search Compound Report

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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

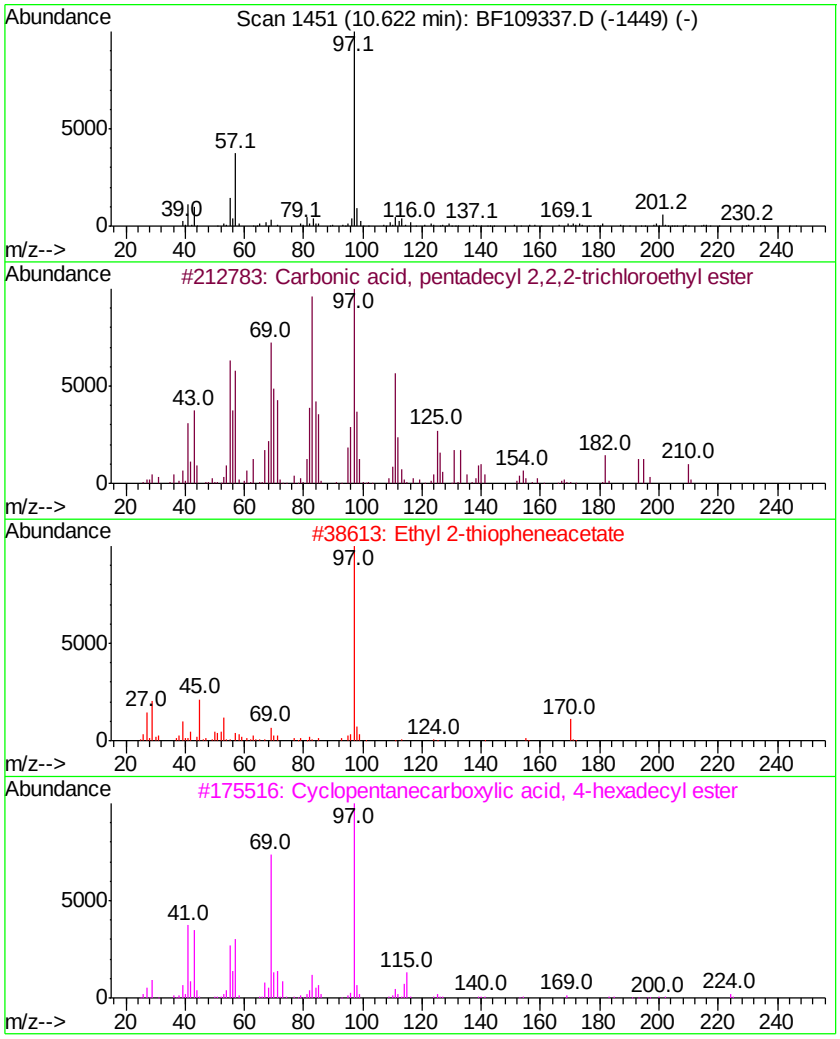
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

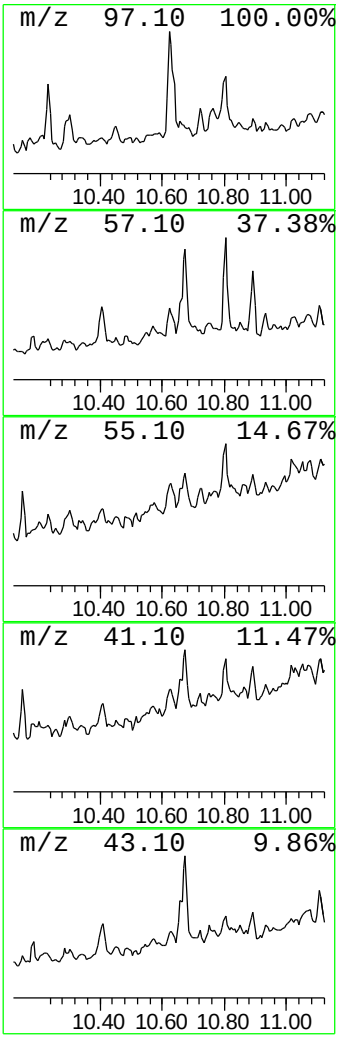
**********

Peak Number 13 Carbonic acid, pentadecyl 2... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.62 | 7.54 ng | 219502 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Carbonic acid, pentadecyl 2,2,2-... | 402 | C18H33Cl3O3 | 1000314-56-1 | 50 |
| 2 | Ethyl 2-thiopheneacetate | 170 | C8H10O2S | 057382-97-5 | 50 |
| 3 | Cyclopentanecarboxylic acid, 4-h... | 338 | C22H42O2 | 1000282-77-5 | 50 |
| 4 | 2H-Pyran-2-one, 5,6-dihydro-6-pe... | 168 | C10H16O2 | 054814-64-1 | 50 |
| 5 | 2-Hexene, 3,4,4-trimethyl- | 126 | C9H18 | 053941-19-8 | 50 |



# Library Search Compound Report

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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

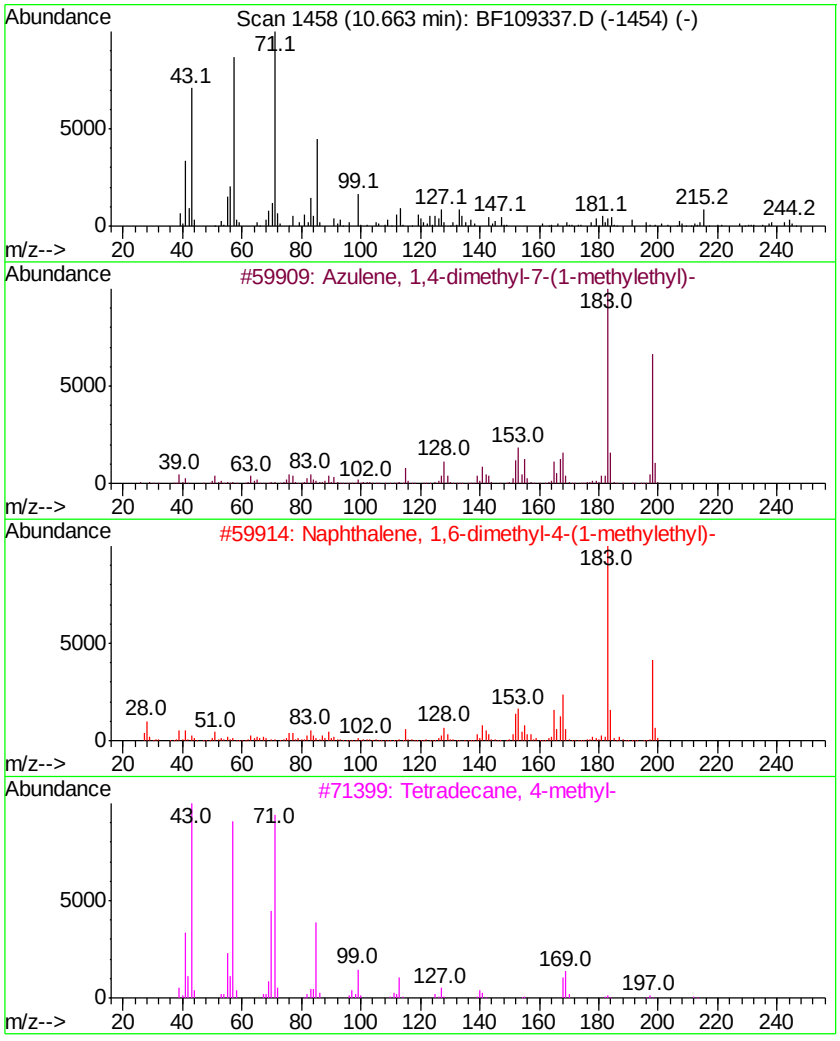
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

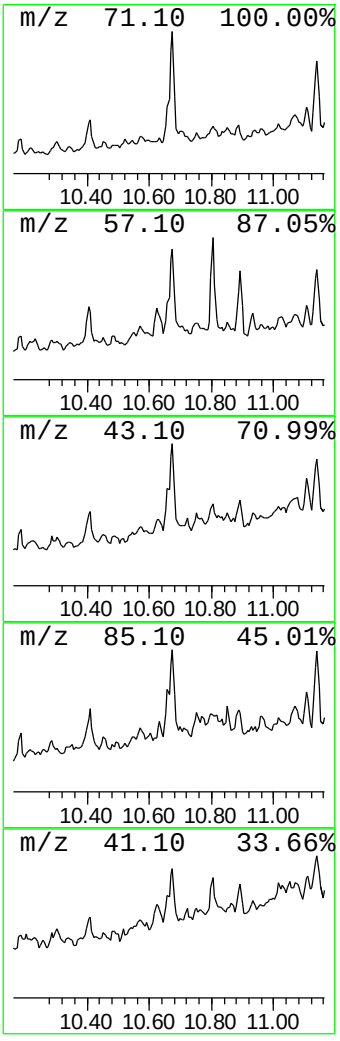
**********

Peak Number 14 Azulene, 1,4-dimethyl-7-(1-... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 10.13 ng | 294650 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Azulene, 1,4-dimethyl-7-(1-methy... | 198 | C15H18 | 000489-84-9 | 64 |
| 2 | Naphthalene, 1,6-dimethyl-4-(1-m... | 198 | C15H18 | 000483-78-3 | 47 |
| 3 | Tetradecane, 4-methyl- | 212 | C15H32 | 025117-24-2 | 41 |
| 4 | 1-Nonene, 4,6,8-trimethyl- | 168 | C12H24 | 054410-98-9 | 35 |
| 5 | 4-Imidazolidinone, 2,2-dimethyl-... | 169 | C8H15N3O | 142071-78-1 | 30 |



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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

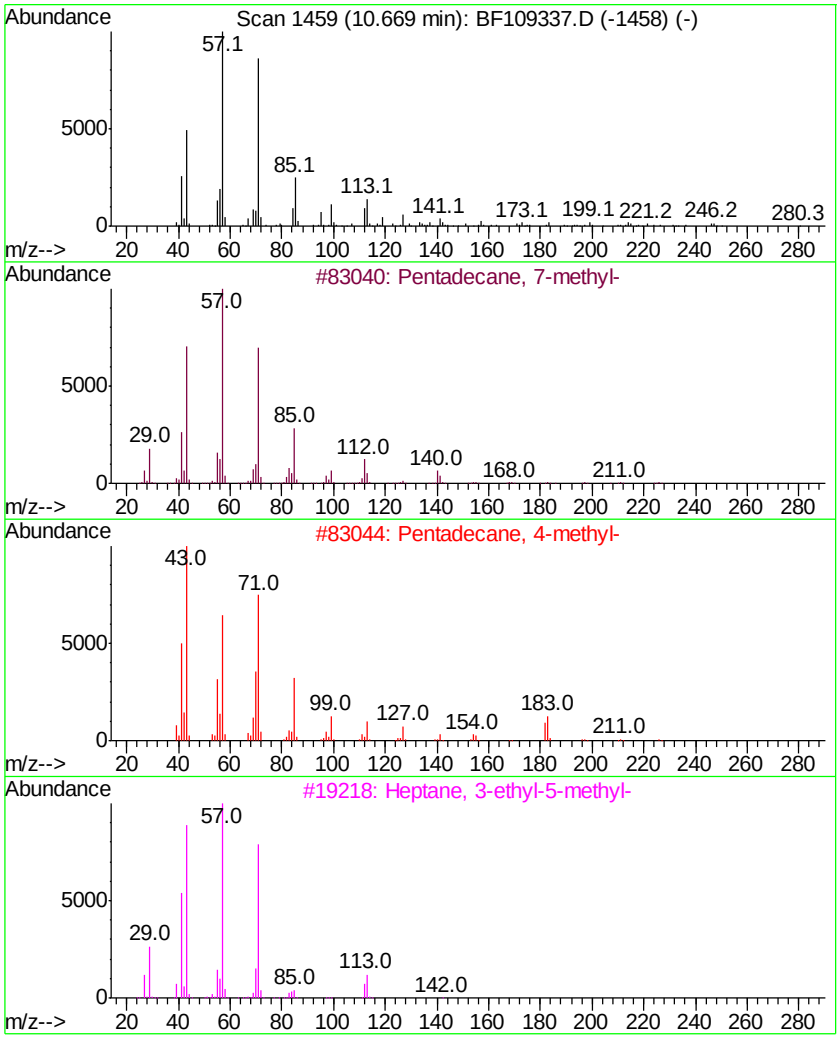
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

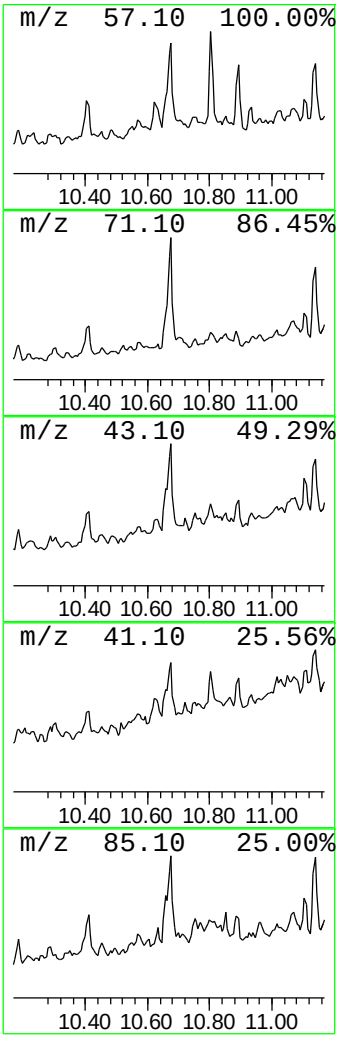
**********

Peak Number 15 Pentadecane, 7-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 12.79 ng | 372159 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentadecane, 7-methyl- | 226 | C16H34 | 006165-40-8 | 83 |
| 2 | Pentadecane, 4-methyl- | 226 | C16H34 | 002801-87-8 | 72 |
| 3 | Heptane, 3-ethyl-5-methyl- | 142 | C10H22 | 052896-90-9 | 68 |
| 4 | Sulfurous acid, butyl octyl ester | 250 | C12H26O3S | 1000309-17-5 | 59 |
| 5 | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38 | 003892-00-0 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

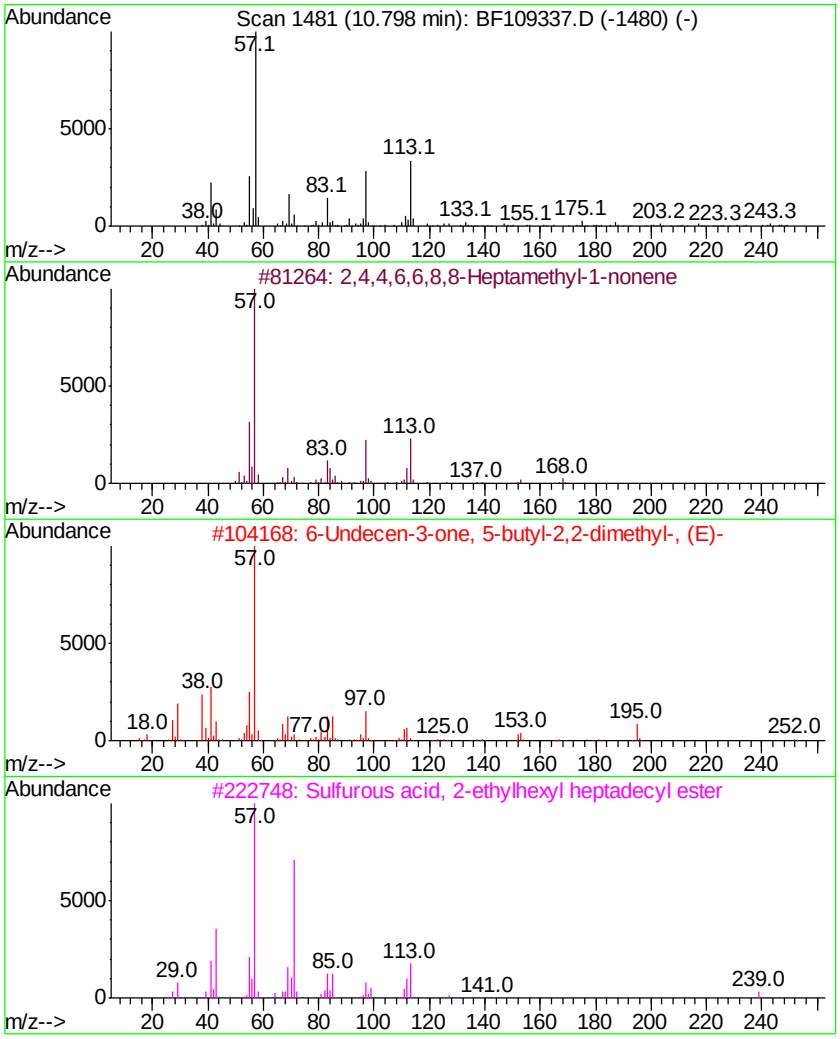
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

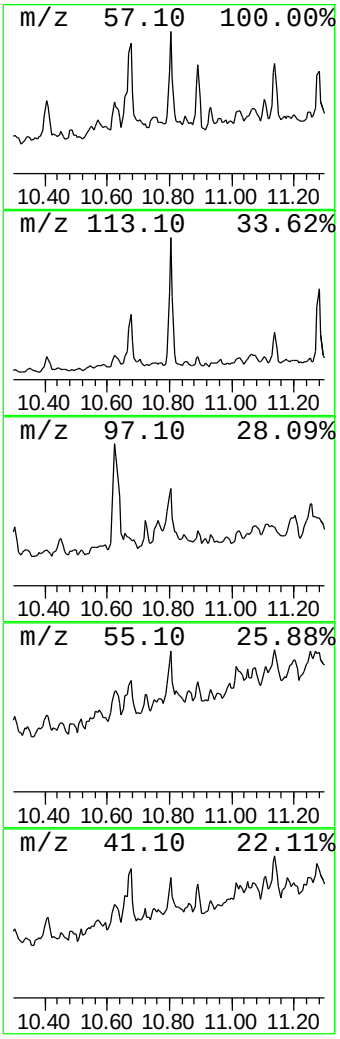
**********

Peak Number 16 2,4,4,6,6,8,8-Heptamethyl-1... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 5.83 ng | 169539 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4,4,6,6,8,8-Heptamethyl-1-nonene | 224 | C16H32 | 015796-04-0 | 78 |
| 2 | 6-Undecen-3-one, 5-butyl-2,2-dim... | 252 | C17H32O | 055976-05-1 | 53 |
| 3 | Sulfurous acid, 2-ethylhexyl hep... | 432 | C25H52O3S | 1000309-20-0 | 38 |
| 4 | 2,4,4-Trimethyl-1-pentanol, hept... | 326 | C12H17F7O2 | 1000365-01-4 | 38 |
| 5 | Sulfurous acid, di(2-ethylhexyl)... | 306 | C16H34O3S | 1000309-19-1 | 37 |



# Library Search Compound Report

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Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

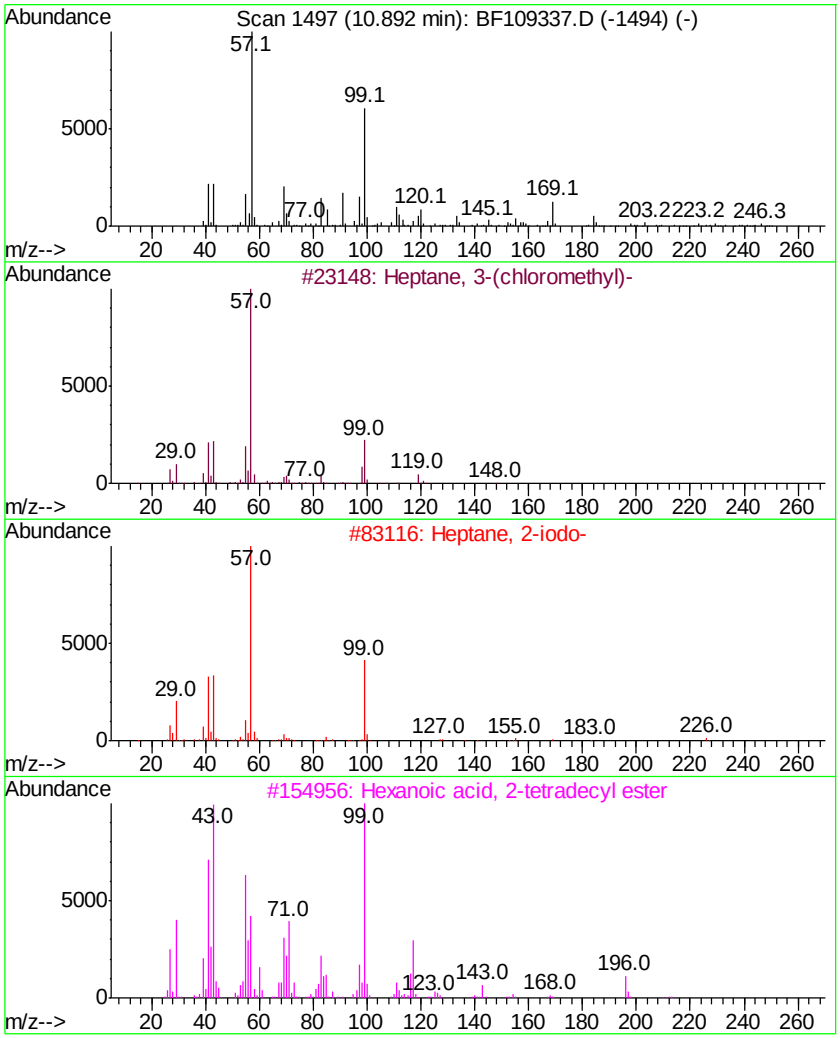
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

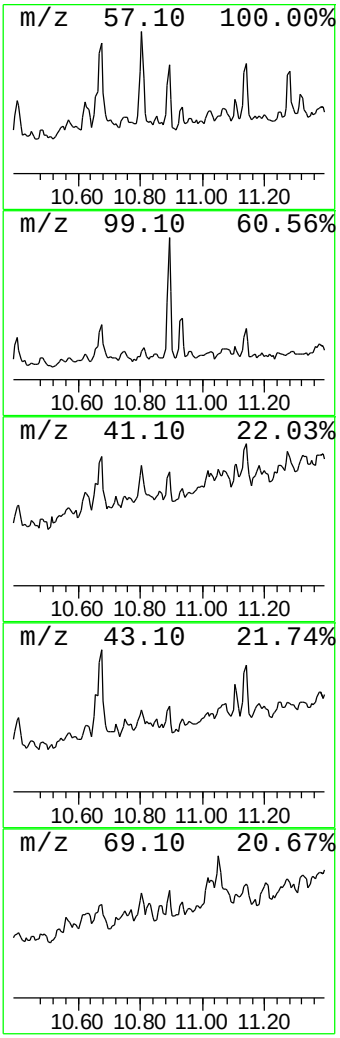
**********

Peak Number 17 unknown10.89 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.89 | 8.33 ng | 242291 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-(chloromethyl)- | 148 | C8H17Cl | 000123-04-6 | 43 |
| 2 | Heptane, 2-iodo- | 226 | C7H15I | 018589-29-2 | 37 |
| 3 | Hexanoic acid, 2-tetradecyl ester | 312 | C20H40O2 | 055193-21-0 | 37 |
| 4 | 1,4-Dioxaspiro[4.5]decan-8-ol | 158 | C8H14O3 | 022428-87-1 | 27 |
| 5 | 2-Piperidinone | 99 | C5H9NO | 000675-20-7 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

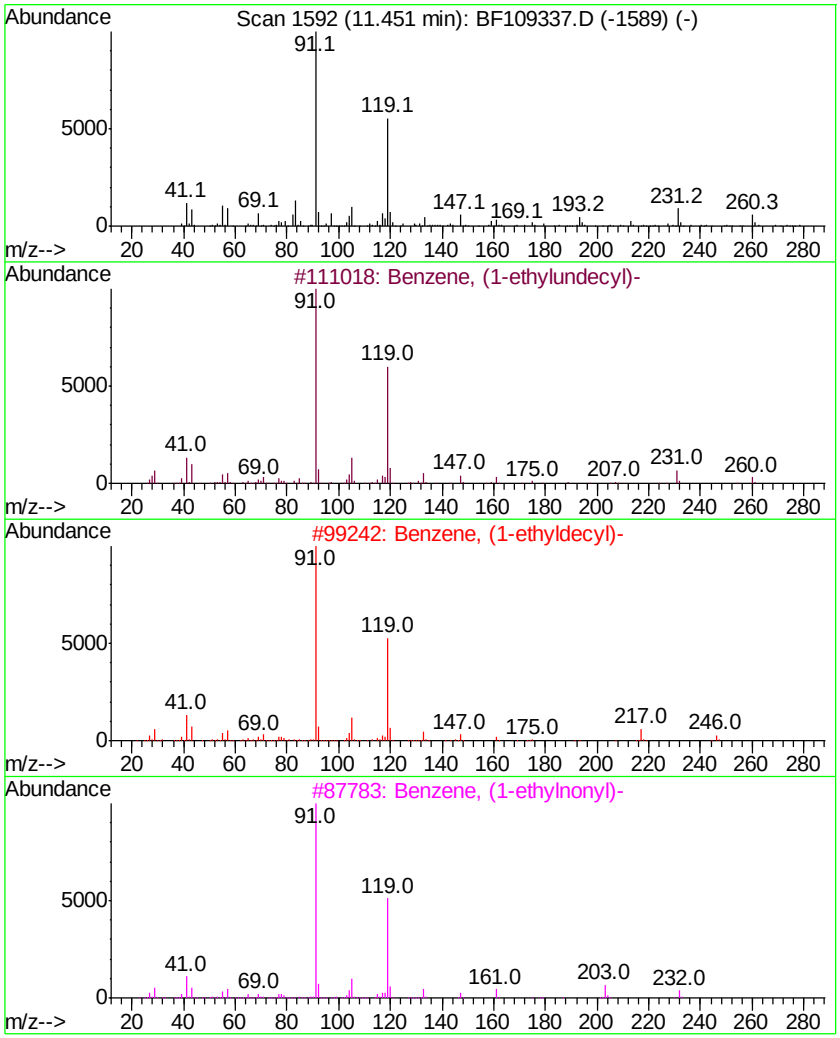
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

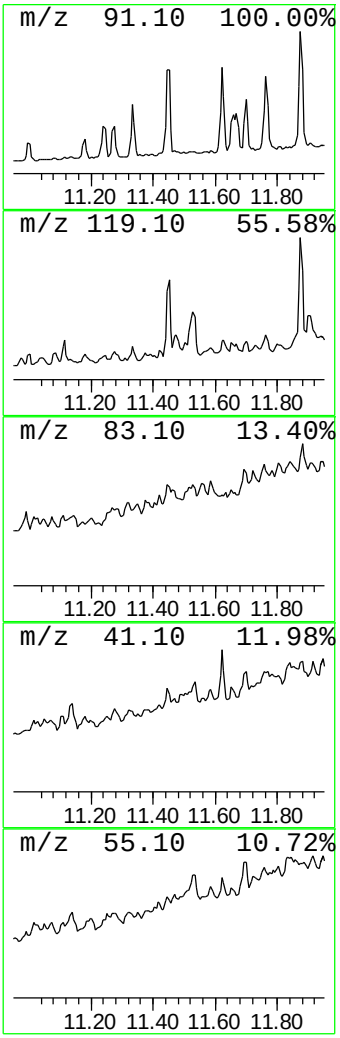
**********

Peak Number 18 Benzene, (1-ethylundecyl)- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.45 | 12.14 ng | 353392 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-ethylundecyl)- | 260 | C19H32 | 004534-52-5 | 98 |
| 2 | Benzene, (1-ethyldecyl)- | 246 | C18H30 | 002400-00-2 | 49 |
| 3 | Benzene, (1-ethylnonyl)- | 232 | C17H28 | 004536-87-2 | 47 |
| 4 | .beta.-Ethylphenethyl alcohol | 150 | C10H14O | 002035-94-1 | 43 |
| 5 | Hexane, 3,4-diphenyl- | 238 | C18H22 | 005789-31-1 | 43 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

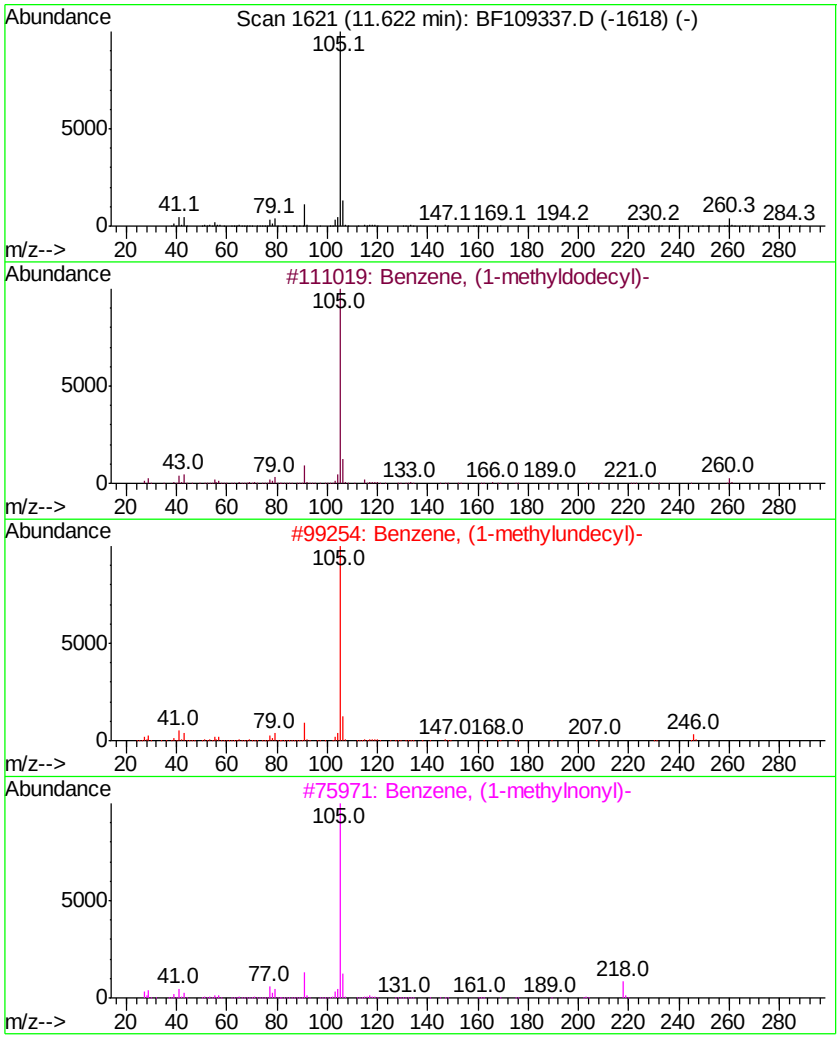
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

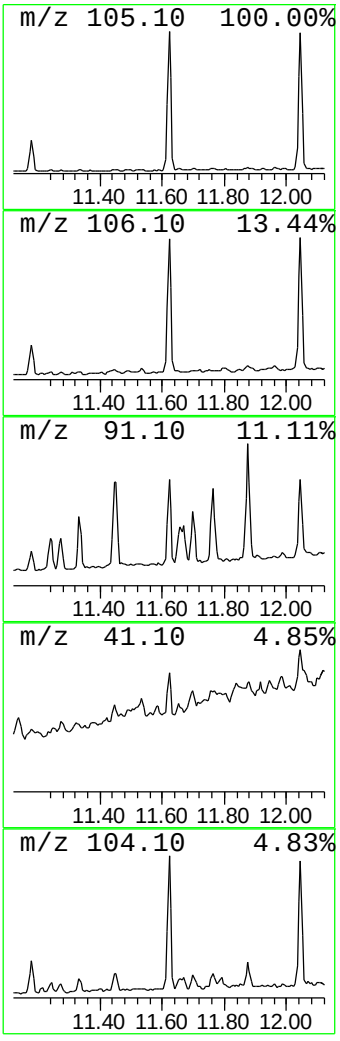
**********

Peak Number 19 Benzene, (1-methyldodecyl)- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.62 | 32.48 ng | 945269 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyldodecyl)- | 260 | C19H32 | 004534-53-6 | 91 |
| 2 | Benzene, (1-methylundecyl)- | 246 | C18H30 | 002719-61-1 | 80 |
| 3 | Benzene, (1-methylnonyl)- | 218 | C16H26 | 004537-13-7 | 72 |
| 4 | Benzene, (1-methyldecyl)- | 232 | C17H28 | 004536-88-3 | 53 |
| 5 | Benzene, (1-methylhexyl)- | 176 | C13H20 | 002132-84-5 | 47 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

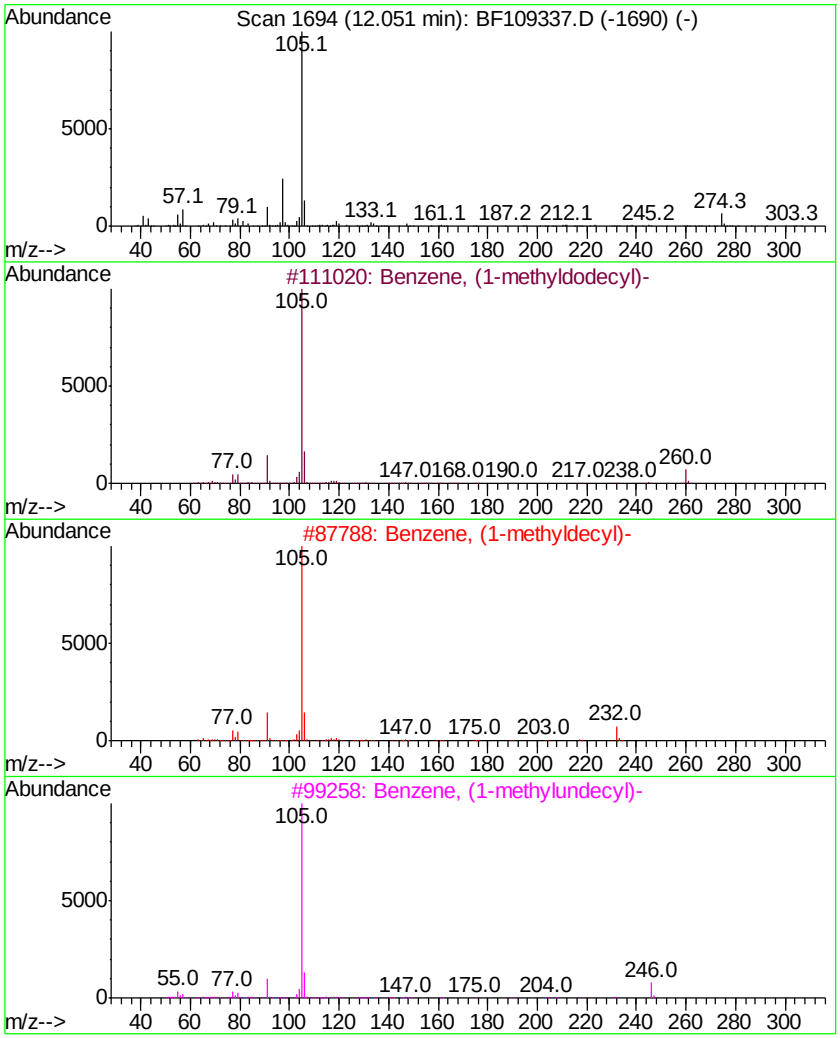
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

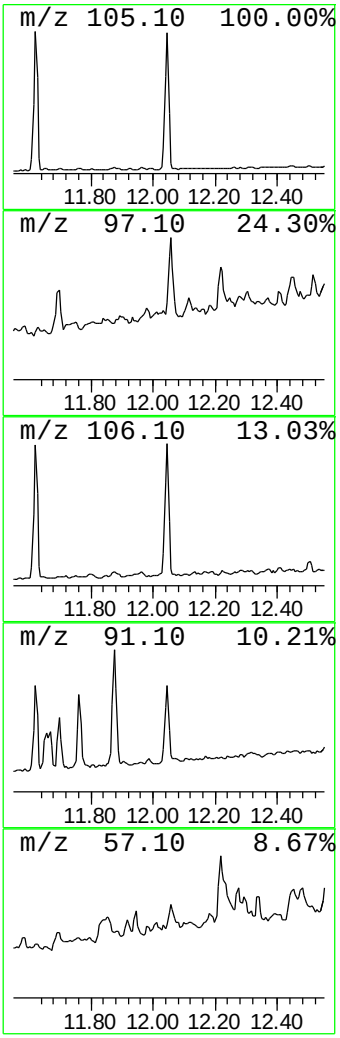
**********

Peak Number 20 Benzene, (1-methyldecyl)- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.05 | 52.49 ng | 1527520 | Phenanthrene-d10 | 11.22 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyldodecyl)- | 260 | C19H32 | 004534-53-6 | 72 |
| 2 | Benzene, (1-methyldecyl)- | 232 | C17H28 | 004536-88-3 | 64 |
| 3 | Benzene, (1-methylundecyl)- | 246 | C18H30 | 002719-61-1 | 64 |
| 4 | Benzene, (1-methyltridecyl)- | 274 | C20H34 | 004534-59-2 | 52 |
| 5 | Benzene, (1-methylnonyl)- | 218 | C16H26 | 004537-13-7 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF092618\
Data File : BF109337.D
Acq On : 26 Sep 2018 15:35
Operator : JU/SJ
Sample : J5056-01
Misc :
ALS Vial : 8 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** RA-BASELINE-WATER

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF092218.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 |
| unknown6.47 | 6.47 | 70.8 | ng | 2254900 | 1 | 6.70 | 636790 | 20.0 |
| Bicyclo[3.1.1]hep... | 8.24 | 3.0 | ng | 120237 | 2 | 7.99 | 799430 | 20.0 |
| unknown9.15 | 9.15 | 3.3 | ng | 193729 | 3 | 9.74 | 1160600 | 20.0 |
| Nonane, 2,5-dimet... | 9.27 | 4.0 | ng | 234595 | 3 | 9.74 | 1160600 | 20.0 |
| unknown9.45 | 9.45 | 4.8 | ng | 275788 | 3 | 9.74 | 1160600 | 20.0 |
| Decahydro-4,4,8,9... | 9.61 | 3.7 | ng | 212591 | 3 | 9.74 | 1160600 | 20.0 |
| unknown9.66 | 9.66 | 7.1 | ng | 410381 | 3 | 9.74 | 1160600 | 20.0 |
| Sulfurous acid, d... | 9.69 | 2.9 | ng | 166542 | 3 | 9.74 | 1160600 | 20.0 |
| unknown10.01 | 10.01 | 3.2 | ng | 187773 | 3 | 9.74 | 1160600 | 20.0 |
| unknown10.12 | 10.12 | 2.9 | ng | 168010 | 3 | 9.74 | 1160600 | 20.0 |
| Cyclohexene, 1,5,... | 10.15 | 6.7 | ng | 386155 | 3 | 9.74 | 1160600 | 20.0 |
| Carbonic acid, pe... | 10.62 | 7.5 | ng | 219502 | 4 | 11.22 | 582011 | 20.0 |
| Azulene, 1,4-dime... | 10.66 | 10.1 | ng | 294650 | 4 | 11.22 | 582011 | 20.0 |
| Pentadecane, 7-me... | 10.67 | 12.8 | ng | 372159 | 4 | 11.22 | 582011 | 20.0 |
| 2,4,4,6,6,8,8-Hep... | 10.80 | 5.8 | ng | 169539 | 4 | 11.22 | 582011 | 20.0 |
| unknown10.89 | 10.89 | 8.3 | ng | 242291 | 4 | 11.22 | 582011 | 20.0 |
| Benzene, (1-ethyl... | 11.45 | 12.1 | ng | 353392 | 4 | 11.22 | 582011 | 20.0 |
| Benzene, (1-methy... | 11.62 | 32.5 | ng | 945269 | 4 | 11.22 | 582011 | 20.0 |
| Benzene, (1-methy... | 12.05 | 52.5 | ng | 1527520 | 4 | 11.22 | 582011 | 20.0 |