LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

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-BF061118.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 | 5.189 | 481 | 485 | 492 | rVB | 181073 | 193483 | 7.76% | 0.561% |
| 2 | 5.607 | 553 | 556 | 563 | rBV | 1855393 | 2061342 | 82.67% | 5.974% |
| 3 | 6.201 | 653 | 657 | 663 | rVB | 34366 | 42815 | 1.72% | 0.124% |
| 4 | 6.607 | 723 | 726 | 736 | rBV | 1784504 | 2163361 | 86.76% | 6.270% |
| 5 | 6.748 | 746 | 750 | 753 | rBV | 2235990 | 2045444 | 82.03% | 5.928% |
| 6 | 6.966 | 783 | 787 | 790 | rVB | 1025311 | 826235 | 33.14% | 2.395% |
| 7 | 7.119 | 809 | 813 | 816 | rBV | 1921731 | 1625416 | 65.19% | 4.711% |
| 8 | 7.525 | 877 | 882 | 885 | rBV | 1596542 | 1332521 | 53.44% | 3.862% |
| 9 | 8.248 | 1001 | 1005 | 1007 | rBV | 1304640 | 1097363 | 44.01% | 3.180% |
| 10 | 8.266 | 1007 | 1008 | 1012 | rVB | 362535 | 248275 | 9.96% | 0.720% |
| 11 | 8.960 | 1122 | 1126 | 1129 | rVB | 398632 | 298355 | 11.97% | 0.865% |
| 12 | 9.007 | 1131 | 1134 | 1138 | rVV | 224064 | 188467 | 7.56% | 0.546% |
| 13 | 9.060 | 1138 | 1143 | 1146 | rVB | 258076 | 202523 | 8.12% | 0.587% |
| 14 | 9.319 | 1181 | 1187 | 1190 | rBV | 2896921 | 2467414 | 98.96% | 7.151% |
| 15 | 9.425 | 1201 | 1205 | 1209 | rVB2 | 231142 | 220668 | 8.85% | 0.640% |
| 16 | 9.519 | 1218 | 1221 | 1226 | rVB | 64784 | 61407 | 2.46% | 0.178% |
| 17 | 9.589 | 1228 | 1233 | 1236 | rBV2 | 81344 | 107470 | 4.31% | 0.311% |
| 18 | 9.660 | 1240 | 1245 | 1247 | rBV | 136578 | 135976 | 5.45% | 0.394% |
| 19 | 9.683 | 1247 | 1249 | 1251 | rVV | 69038 | 61903 | 2.48% | 0.179% |
| 20 | 9.713 | 1251 | 1254 | 1257 | rVB | 236608 | 191612 | 7.68% | 0.555% |
| 21 | 9.777 | 1263 | 1265 | 1267 | rBV | 45547 | 33414 | 1.34% | 0.097% |
| 22 | 9.860 | 1274 | 1279 | 1285 | rBV3 | 44011 | 61355 | 2.46% | 0.178% |
| 23 | 9.919 | 1285 | 1289 | 1293 | rVV2 | 47743 | 52134 | 2.09% | 0.151% |
| 24 | 9.983 | 1297 | 1300 | 1301 | rVV | 77654 | 69372 | 2.78% | 0.201% |
| 25 | 10.007 | 1301 | 1304 | 1307 | rVV | 1426417 | 1223792 | 49.08% | 3.547% |
| 26 | 10.036 | 1307 | 1309 | 1312 | rVV | 1315399 | 1077506 | 43.21% | 3.123% |
| 27 | 10.072 | 1312 | 1315 | 1317 | rVB | 46280 | 34844 | 1.40% | 0.101% |
| 28 | 10.160 | 1327 | 1330 | 1335 | rVB | 40919 | 38197 | 1.53% | 0.111% |
| 29 | 10.207 | 1335 | 1338 | 1342 | rVB | 792266 | 699788 | 28.07% | 2.028% |
| 30 | 10.419 | 1372 | 1374 | 1377 | rVB | 56567 | 50374 | 2.02% | 0.146% |
| 31 | 10.554 | 1393 | 1397 | 1400 | rBV | 1012892 | 804479 | 32.26% | 2.331% |
| 32 | 10.619 | 1402 | 1408 | 1409 | rBV | 60454 | 72726 | 2.92% | 0.211% |
| 33 | 10.636 | 1409 | 1411 | 1414 | rVV | 90839 | 89914 | 3.61% | 0.261% |
| 34 | 10.689 | 1418 | 1420 | 1421 | rVV | 48161 | 39863 | 1.60% | 0.116% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

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-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.707 | 1421 | 1423 | 1430 | rVB | 104251 | 84234 | 3.38% | 0.244% |
| 36 | 10.795 | 1434 | 1438 | 1442 | rVV | 1727795 | 1651182 | 66.22% | 4.785% |
| 37 | 10.824 | 1442 | 1443 | 1448 | rVV2 | 58690 | 57004 | 2.29% | 0.165% |
| 38 | 10.895 | 1451 | 1455 | 1457 | rVV | 57894 | 60553 | 2.43% | 0.175% |
| 39 | 10.919 | 1457 | 1459 | 1462 | rVB | 41665 | 38222 | 1.53% | 0.111% |
| 40 | 10.995 | 1468 | 1472 | 1477 | rBV4 | 16545 | 28696 | 1.15% | 0.083% |
| 41 | 11.083 | 1483 | 1487 | 1488 | rBV3 | 38870 | 43291 | 1.74% | 0.125% |
| 42 | 11.101 | 1488 | 1490 | 1492 | rVB | 58558 | 44228 | 1.77% | 0.128% |
| 43 | 11.295 | 1520 | 1523 | 1528 | rVB | 139459 | 124386 | 4.99% | 0.360% |
| 44 | 11.342 | 1528 | 1531 | 1534 | rBV3 | 45467 | 49150 | 1.97% | 0.142% |
| 45 | 11.389 | 1534 | 1539 | 1543 | rVB | 179804 | 175974 | 7.06% | 0.510% |
| 46 | 11.495 | 1554 | 1557 | 1559 | rBV | 1394780 | 1280972 | 51.37% | 3.712% |
| 47 | 11.518 | 1559 | 1561 | 1565 | rVV | 1690652 | 1514611 | 60.74% | 4.390% |
| 48 | 11.571 | 1568 | 1570 | 1573 | rVV | 164427 | 118994 | 4.77% | 0.345% |
| 49 | 11.601 | 1573 | 1575 | 1580 | rVB2 | 48084 | 50118 | 2.01% | 0.145% |
| 50 | 11.707 | 1589 | 1593 | 1594 | rBV2 | 93960 | 88163 | 3.54% | 0.256% |
| 51 | 11.724 | 1594 | 1596 | 1599 | rVB | 591806 | 475536 | 19.07% | 1.378% |
| 52 | 11.824 | 1611 | 1613 | 1617 | rVB2 | 40309 | 34333 | 1.38% | 0.100% |
| 53 | 11.871 | 1618 | 1621 | 1624 | rVB3 | 31532 | 30380 | 1.22% | 0.088% |
| 54 | 12.024 | 1636 | 1647 | 1649 | rBV2 | 173049 | 331524 | 13.30% | 0.961% |
| 55 | 12.113 | 1658 | 1662 | 1664 | rBV | 194033 | 202683 | 8.13% | 0.587% |
| 56 | 12.177 | 1668 | 1673 | 1675 | rBV3 | 43114 | 45134 | 1.81% | 0.131% |
| 57 | 12.260 | 1684 | 1687 | 1689 | rBV2 | 37024 | 29886 | 1.20% | 0.087% |
| 58 | 12.289 | 1689 | 1692 | 1694 | rVV | 70718 | 59457 | 2.38% | 0.172% |
| 59 | 12.313 | 1694 | 1696 | 1701 | rVB2 | 42026 | 41327 | 1.66% | 0.120% |
| 60 | 12.442 | 1713 | 1718 | 1720 | rBV5 | 23183 | 33319 | 1.34% | 0.097% |
| 61 | 12.471 | 1720 | 1723 | 1726 | rBV2 | 24608 | 30042 | 1.20% | 0.087% |
| 62 | 12.524 | 1729 | 1732 | 1738 | rBV3 | 310734 | 356135 | 14.28% | 1.032% |
| 63 | 12.630 | 1748 | 1750 | 1754 | rBV | 46611 | 47706 | 1.91% | 0.138% |
| 64 | 12.713 | 1760 | 1764 | 1767 | rBV | 916489 | 786073 | 31.53% | 2.278% |
| 65 | 12.748 | 1767 | 1770 | 1773 | rVV | 315474 | 253884 | 10.18% | 0.736% |
| 66 | 12.942 | 1800 | 1803 | 1806 | rVB | 601497 | 493819 | 19.80% | 1.431% |
| 67 | 12.989 | 1808 | 1811 | 1814 | rVB2 | 29805 | 30278 | 1.21% | 0.088% |
| 68 | 13.077 | 1820 | 1826 | 1830 | rBV | 2539459 | 2493451 | 100.00% | 7.226% |
| 69 | 13.148 | 1834 | 1838 | 1843 | rBV3 | 31512 | 67357 | 2.70% | 0.195% |
| 70 | 13.236 | 1850 | 1853 | 1856 | rBV | 77103 | 85509 | 3.43% | 0.248% |
| 71 | 13.265 | 1856 | 1858 | 1861 | rVV2 | 80085 | 97095 | 3.89% | 0.281% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

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-BF061118.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.295 | 1861 | 1863 | 1865 | rVB2 | 49846 | 36977 | 1.48% | 0.107% |
| 73 | 13.330 | 1867 | 1869 | 1872 | rVB | 71719 | 64987 | 2.61% | 0.188% |
| 74 | 13.371 | 1872 | 1876 | 1878 | rBV2 | 44684 | 55134 | 2.21% | 0.160% |
| 75 | 13.495 | 1894 | 1897 | 1899 | rBV3 | 44460 | 40069 | 1.61% | 0.116% |
| 76 | 13.642 | 1919 | 1922 | 1924 | rBV3 | 31939 | 32842 | 1.32% | 0.095% |
| 77 | 13.965 | 1974 | 1977 | 1989 | rVB4 | 247684 | 317504 | 12.73% | 0.920% |
| 78 | 14.107 | 1999 | 2001 | 2003 | rBV2 | 47797 | 40926 | 1.64% | 0.119% |
| 79 | 14.142 | 2003 | 2007 | 2010 | rVV | 1063616 | 1097033 | 44.00% | 3.179% |
| 80 | 14.171 | 2010 | 2012 | 2017 | rVB | 119488 | 113928 | 4.57% | 0.330% |
| 81 | 14.607 | 2084 | 2086 | 2087 | rBV2 | 44273 | 35173 | 1.41% | 0.102% |
| 82 | 15.224 | 2187 | 2191 | 2194 | rBV | 102653 | 153688 | 6.16% | 0.445% |
| 83 | 15.283 | 2199 | 2201 | 2205 | rVB3 | 56924 | 60211 | 2.41% | 0.174% |
| 84 | 15.548 | 2243 | 2246 | 2251 | rVB | 57299 | 69889 | 2.80% | 0.203% |
| 85 | 15.683 | 2264 | 2269 | 2278 | rVB | 793657 | 1032045 | 41.39% | 2.991% |

Sum of corrected areas: 34504920

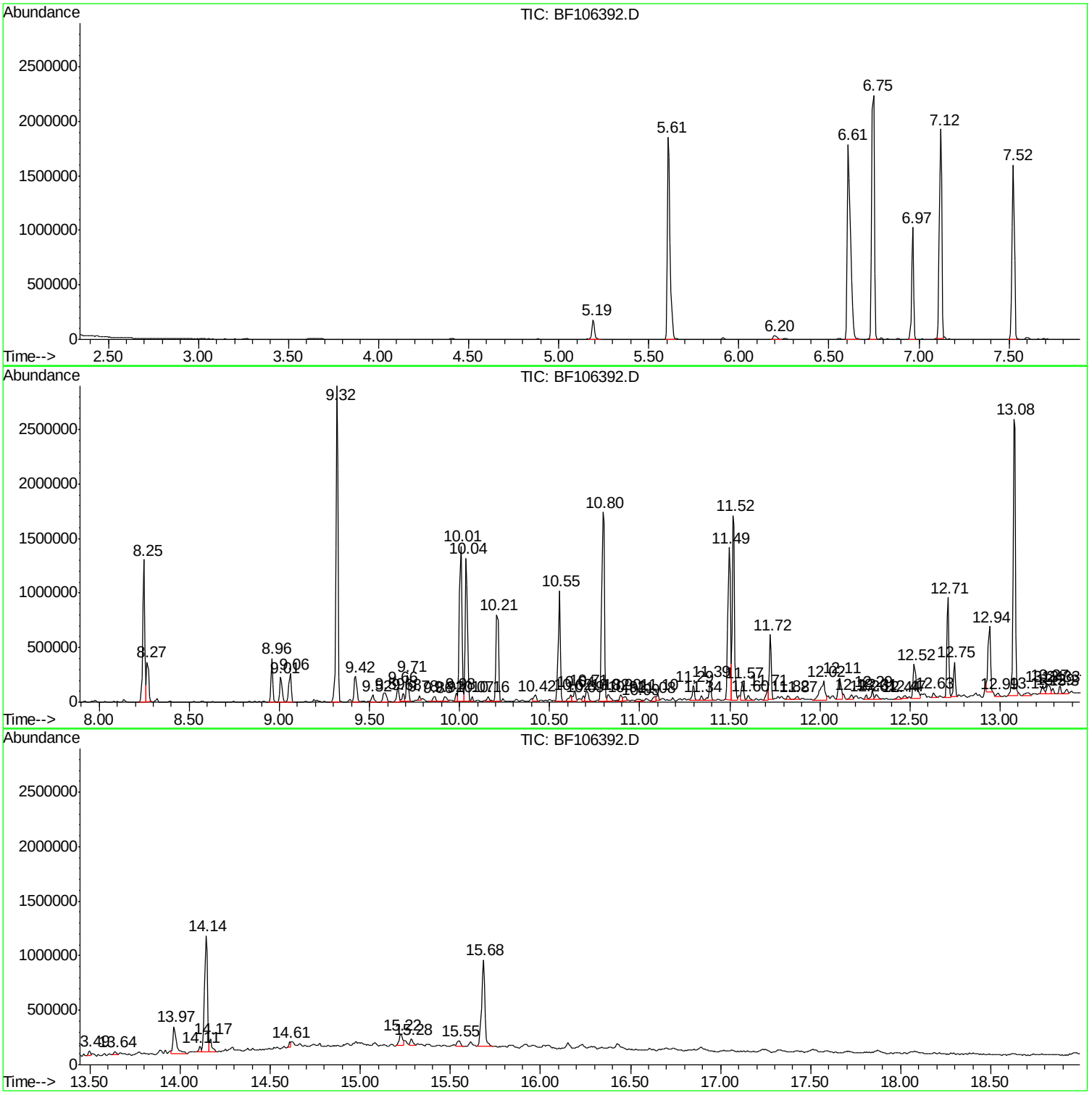
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

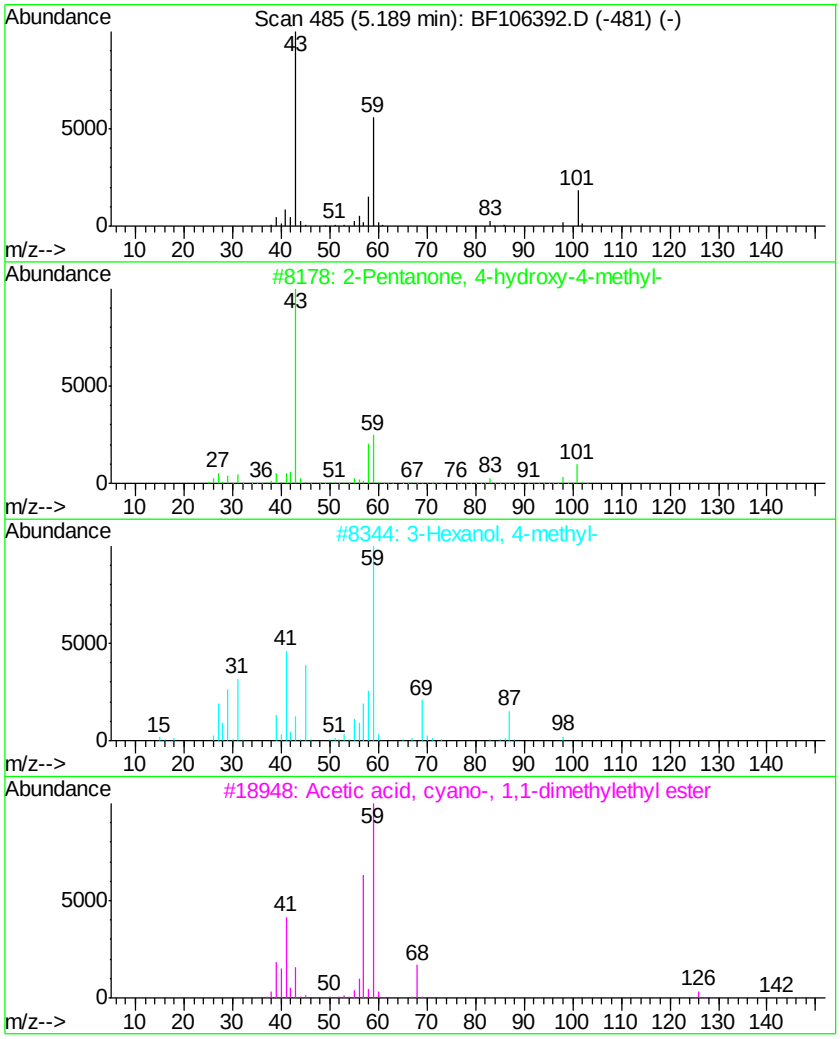
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

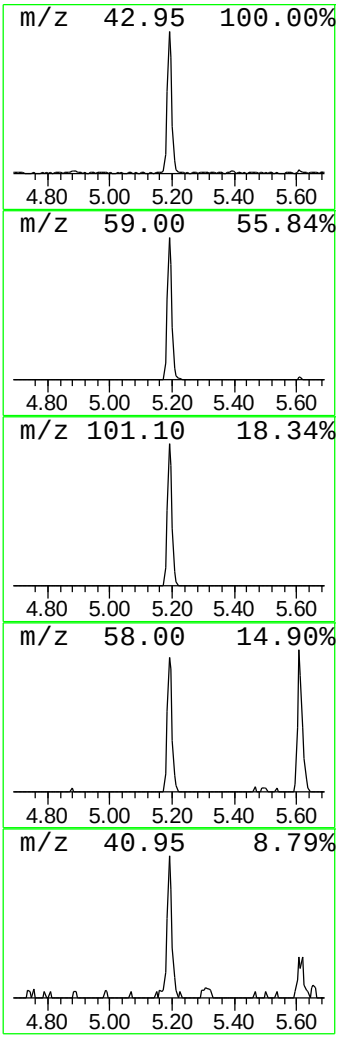
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.19 | 4.68 ng | 193483 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 33 |
| 3 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

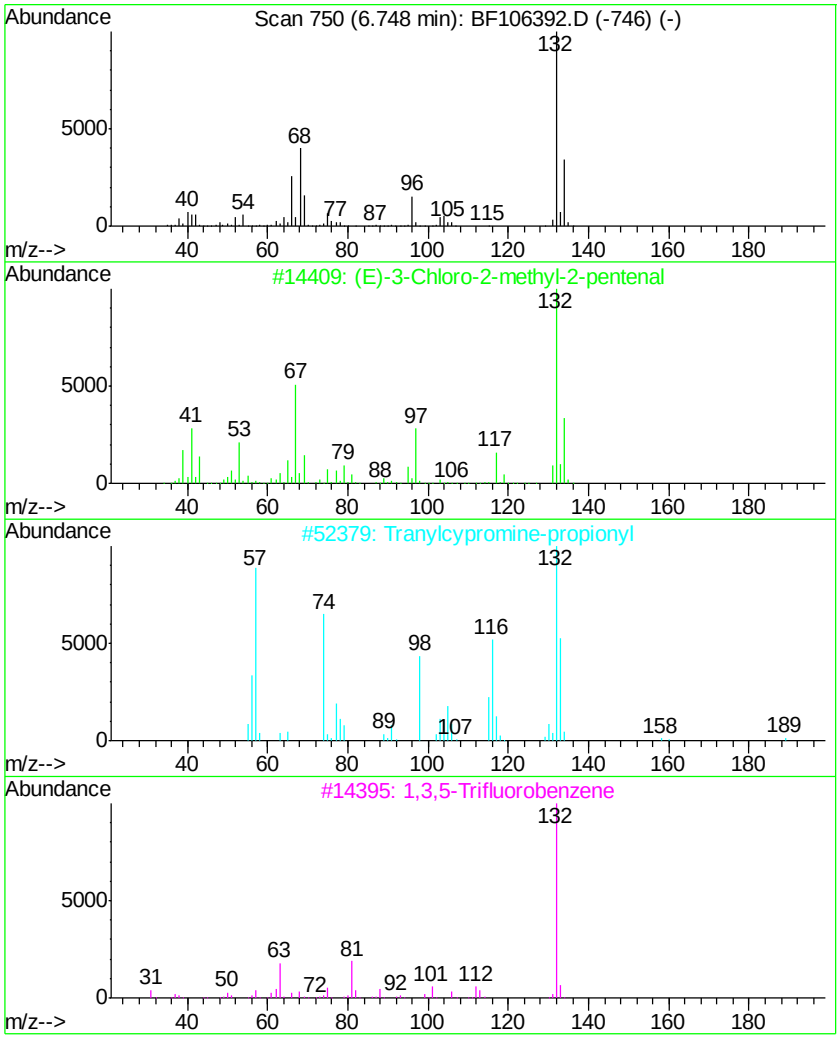
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

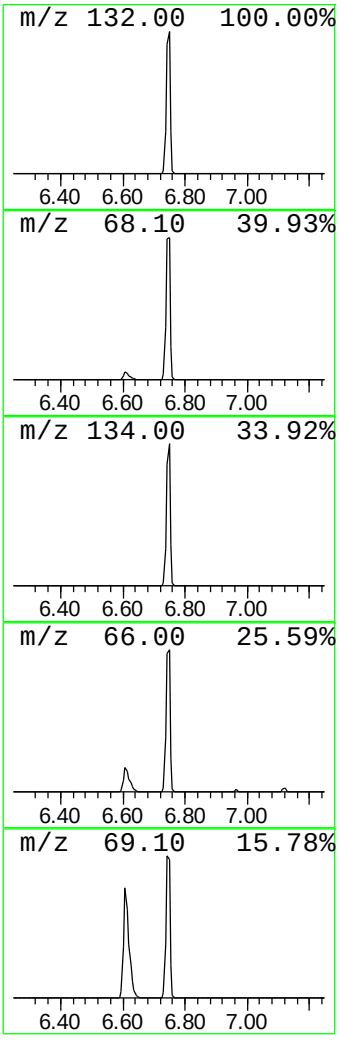
**********

Peak Number 2 unknown6.75 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.75 | 49.51 ng | 2045440 | 1,4-Dichlorobenzene-d4 | 6.97 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

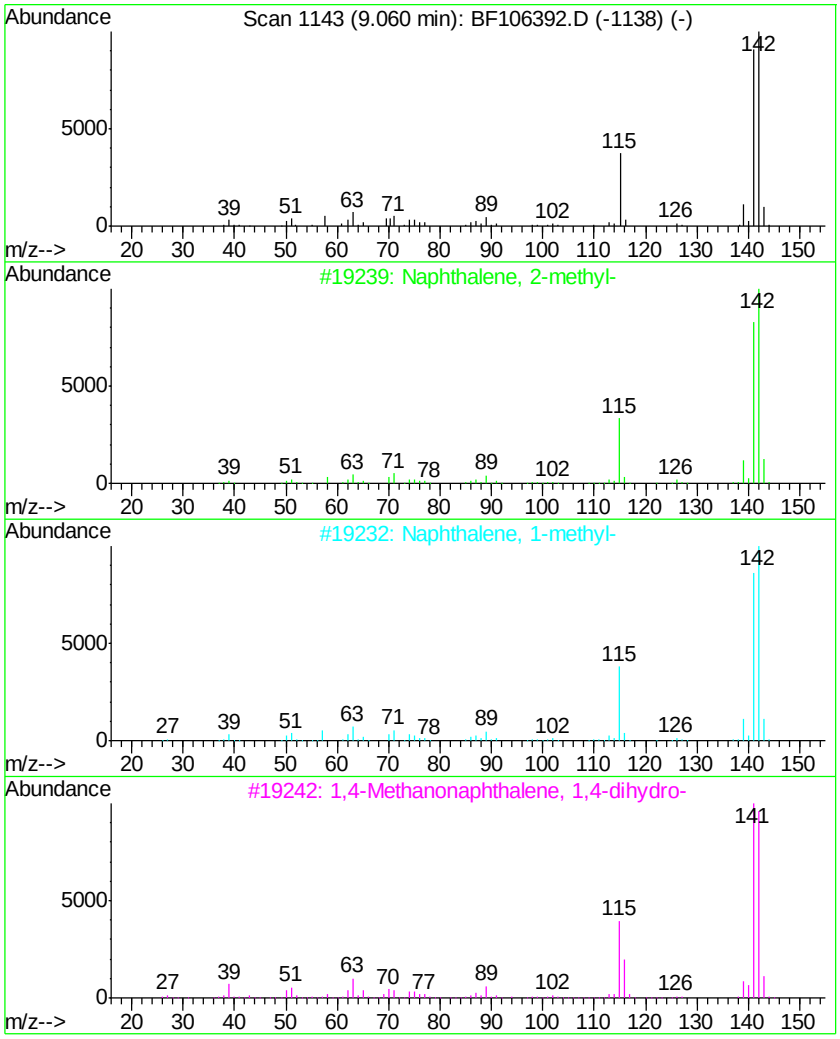
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

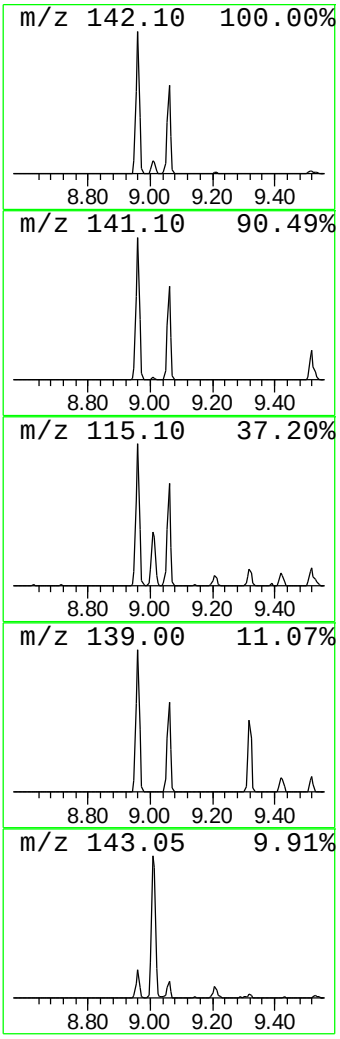
**********

Peak Number 4 Naphthalene, 1-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.06 | 3.69 ng | 202523 | Naphthalene-d8 | 8.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 94 |
| 4 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 5 | 1H-Indene, 1-ethylidene- | 142 | C11H10 | 002471-83-2 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

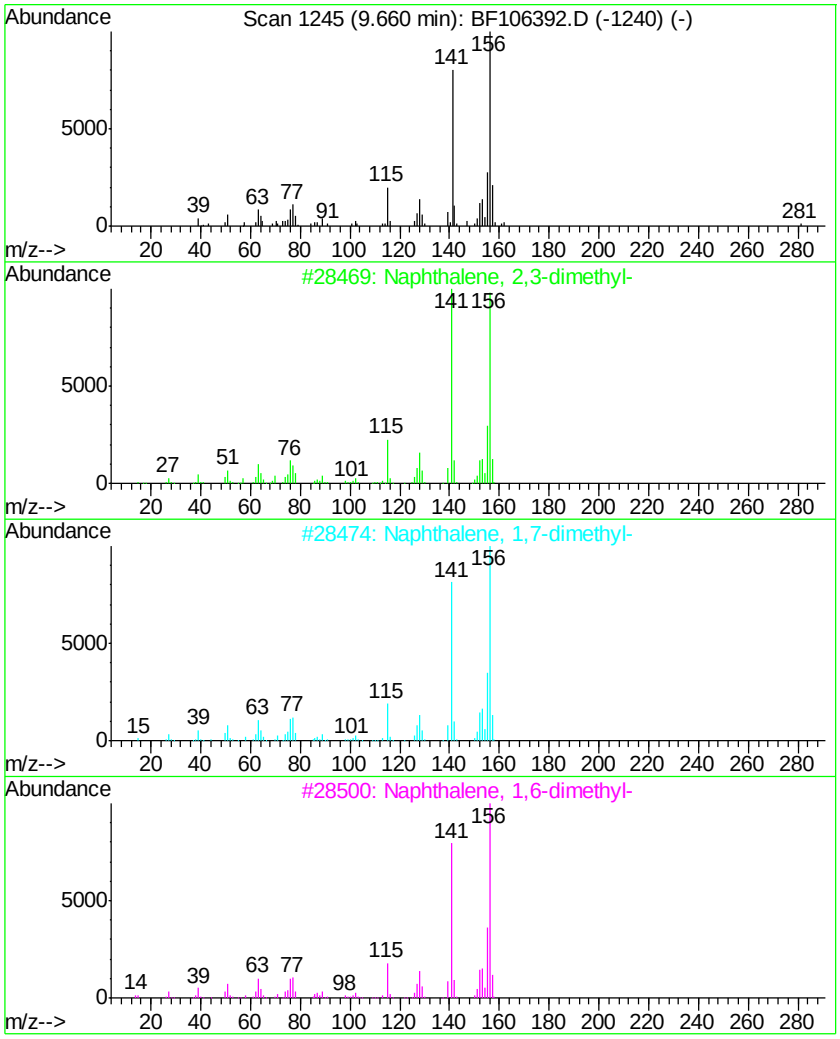
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

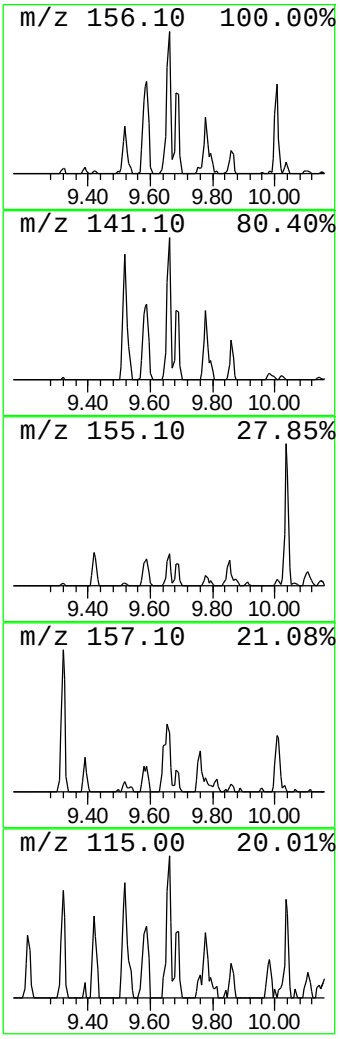
**********

Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.66 | 2.22 ng | 135976 | Acenaphthene-d10 | 10.01 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 4 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 5 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 96 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

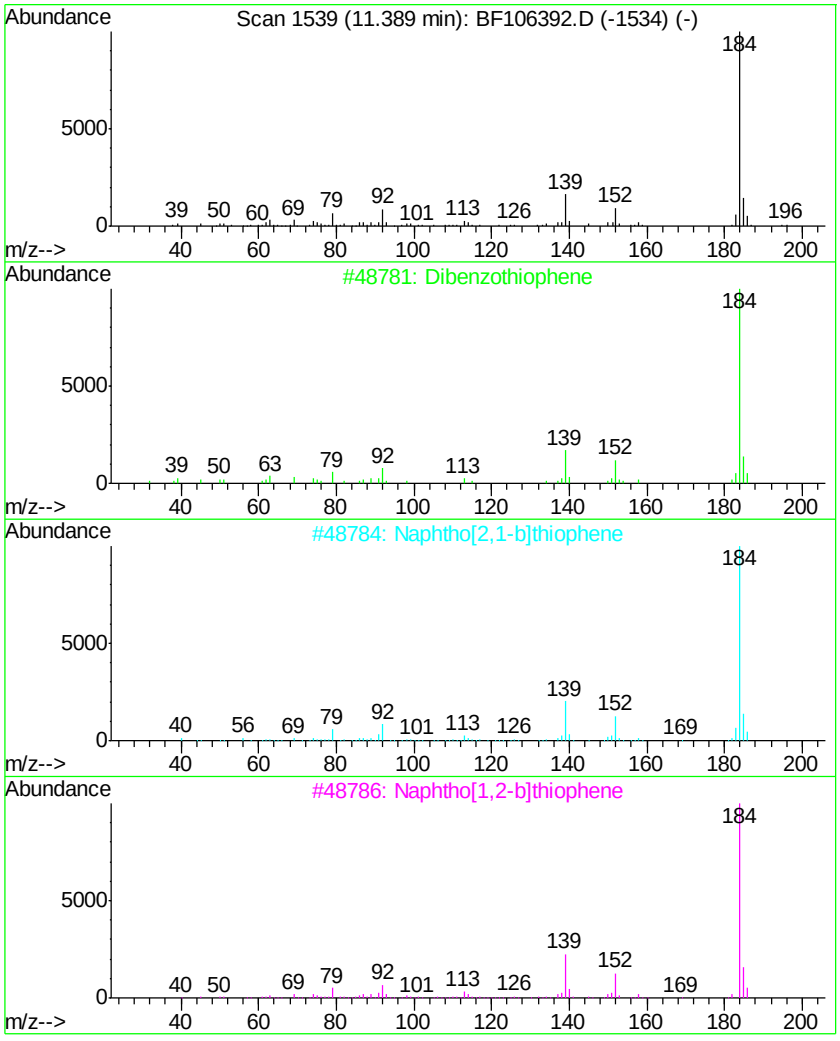
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

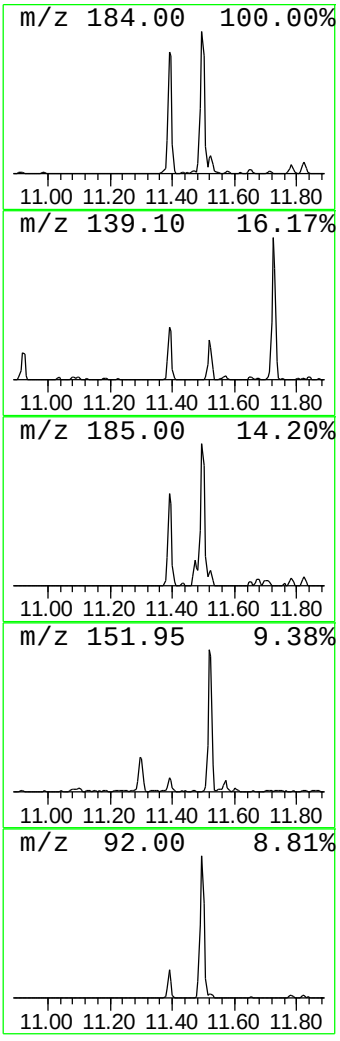
**********

Peak Number 6 Dibenzothiophene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.39 | 2.75 ng | 175974 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 97 |
| 2 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 96 |
| 3 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 4 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

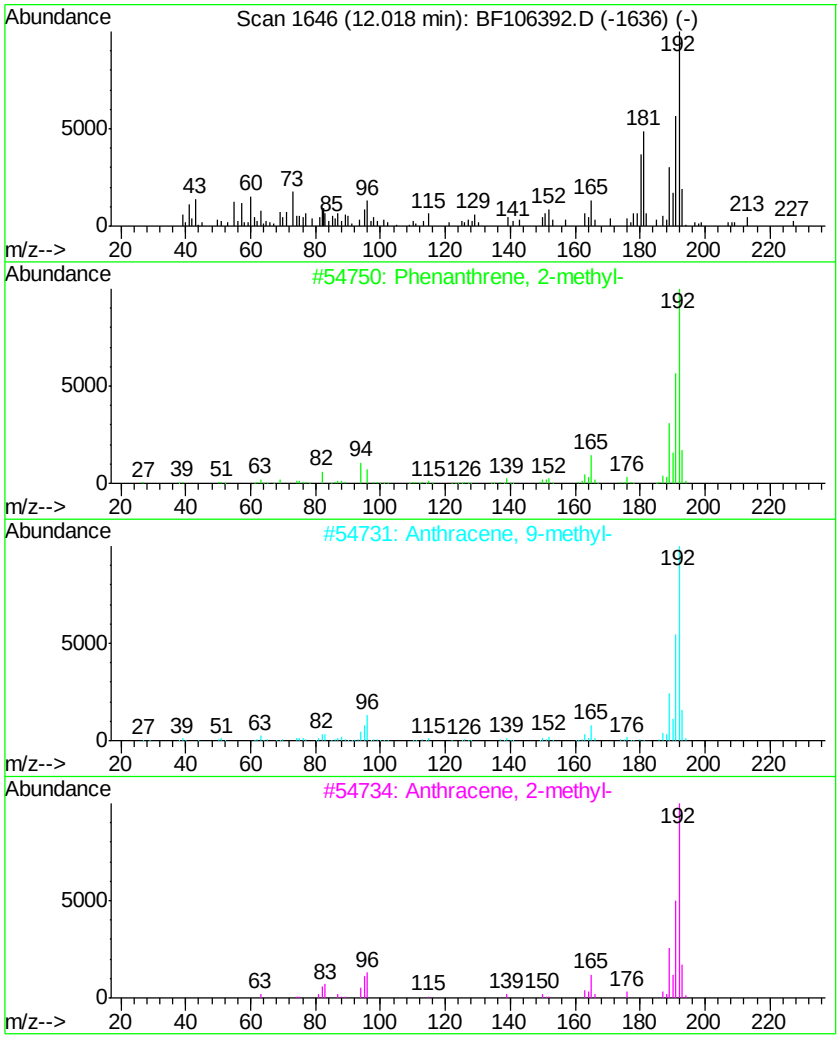
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

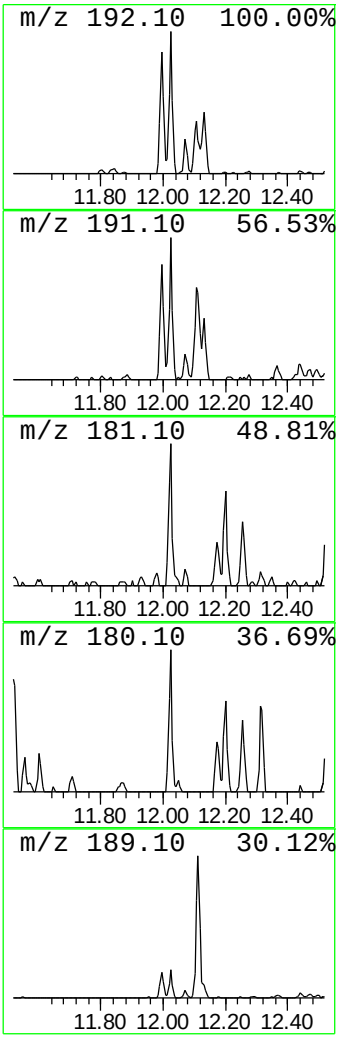
**********

Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 5.18 ng | 331524 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 86 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 86 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 83 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 83 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

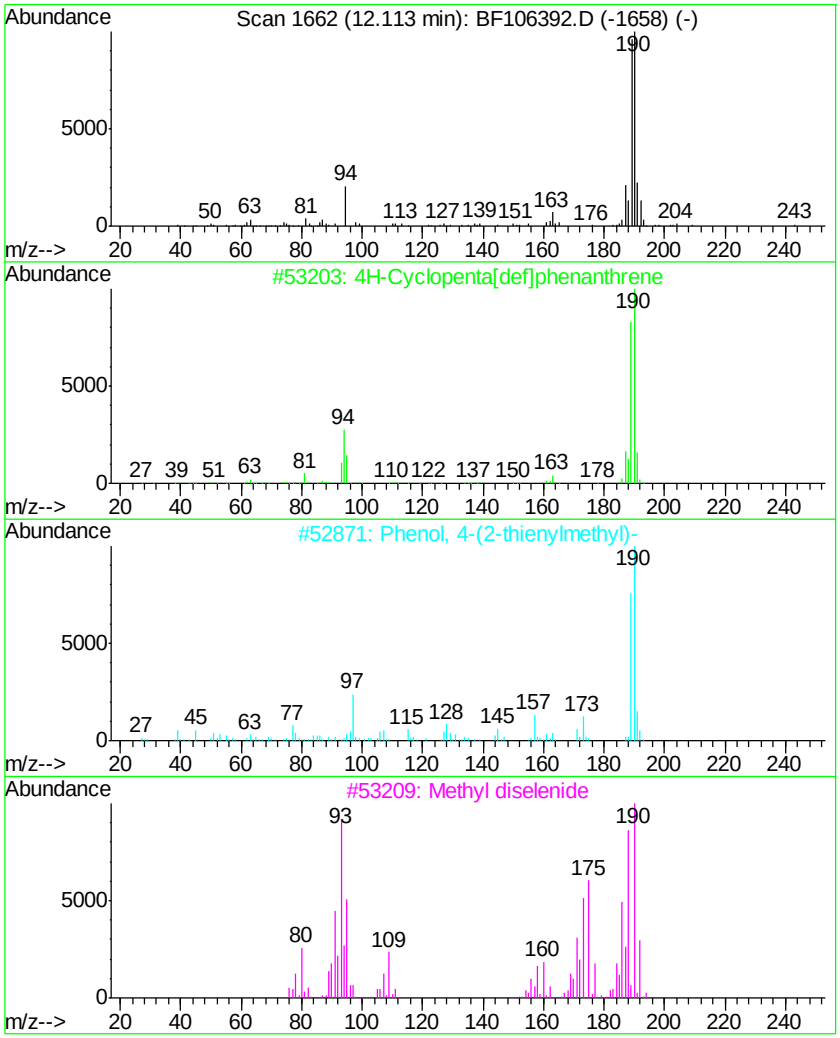
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

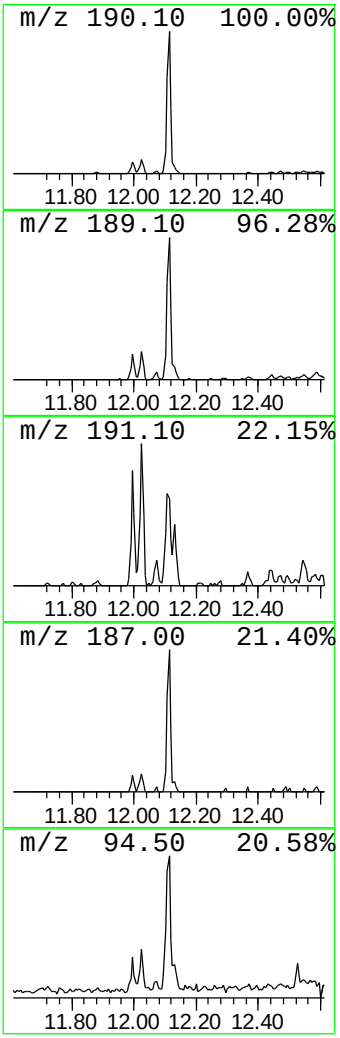
**********

Peak Number 8 4H-Cyclopenta[def]phenanthrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.11 | 3.16 ng | 202683 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 91 |
| 2 | Phenol, 4-(2-thienylmethyl)- | 190 | C11H10OS | 091680-55-6 | 59 |
| 3 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 55 |
| 4 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 50 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 45 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

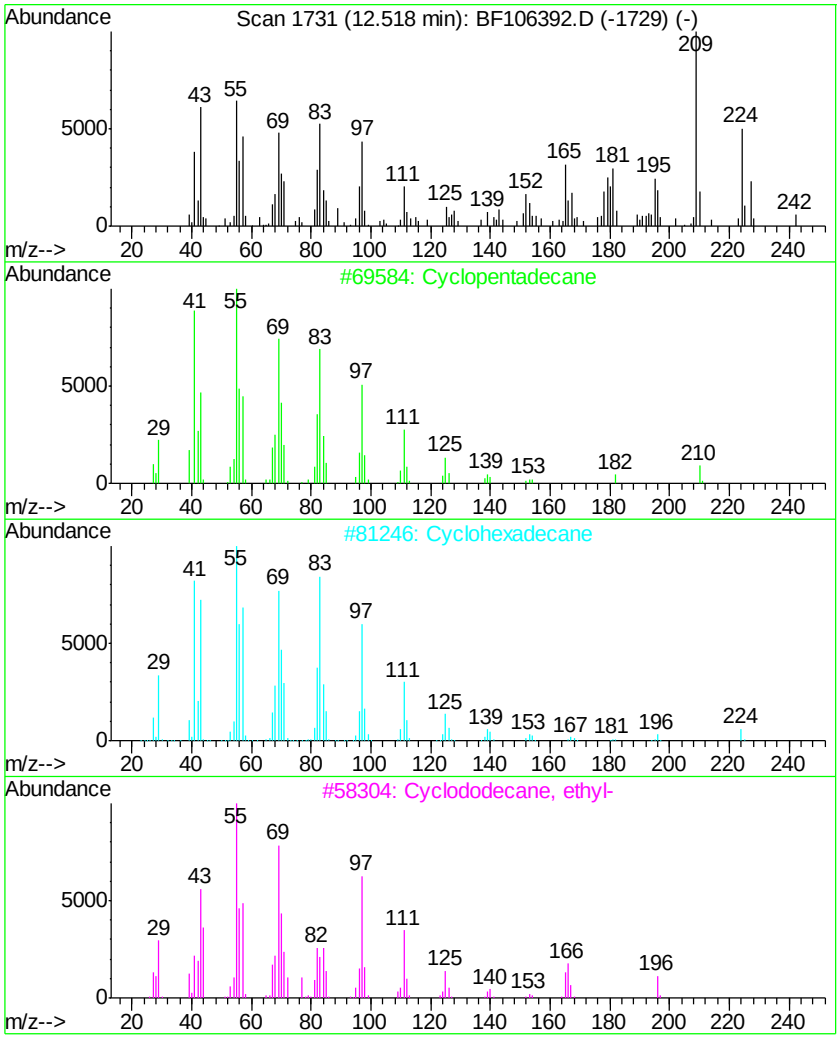
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

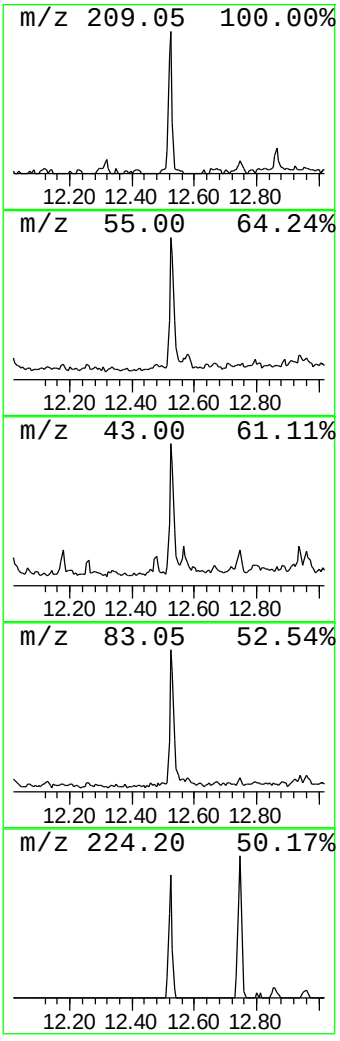
**********

Peak Number 9 Cyclopentadecane Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.52 | 5.56 ng | 356135 | Phenanthrene-d10 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentadecane | 210 | C15H30 | 000295-48-7 | 96 |
| 2 | Cyclohexadecane | 224 | C16H32 | 000295-65-8 | 89 |
| 3 | Cyclododecane, ethyl- | 196 | C14H28 | 028981-49-9 | 87 |
| 4 | Cyclotetradecane | 196 | C14H28 | 000295-17-0 | 81 |
| 5 | 1-Pentadecene | 210 | C15H30 | 013360-61-7 | 78 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

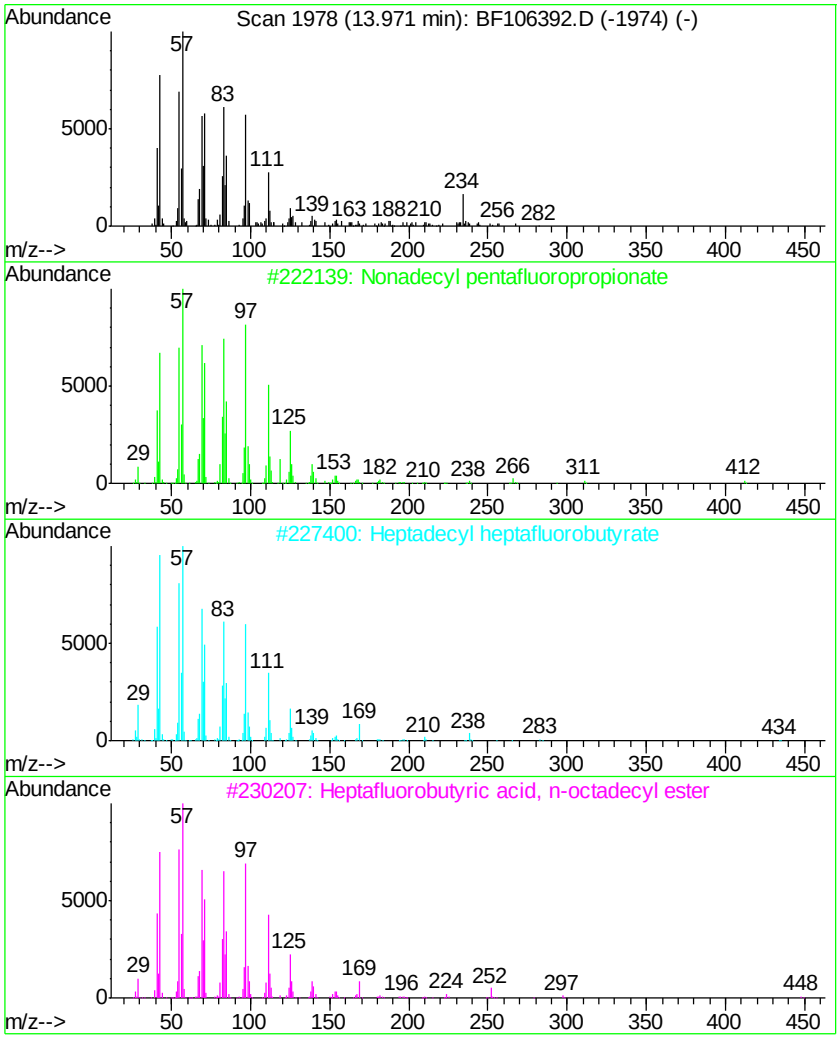
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

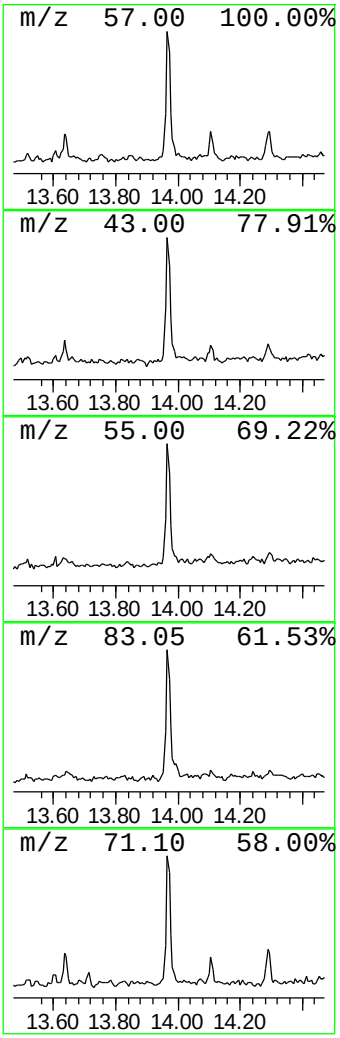
**********

Peak Number 10 Nonadecyl pentafluoropropio... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.97 | 5.79 ng | 317504 | Chrysene-d12 | 14.14 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonadecyl pentafluoropropionate | 430 | C22H39F5O2 | 1000351-88-8 | 91 |
| 2 | Heptadecyl heptafluorobutyrate | 452 | C21H35F7O2 | 959085-66-6 | 91 |
| 3 | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2 | 000400-57-7 | 91 |
| 4 | Pentafluoropropionic acid, octad... | 416 | C21H37F5O2 | 959261-25-7 | 91 |
| 5 | Pentafluoropropionic acid, hexad... | 388 | C19H33F5O2 | 006222-07-7 | 87 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF061318\
Data File : BF106392.D
Acq On : 13 Jun 2018 15:44
Operator : JU/SJ
Sample : J3459-01
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** MH-RO-341

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF061118.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 |
| 2-Pentanone, 4-hy... | 5.19 | 4.7 | ng | 193483 | 1 | 6.97 | 826235 | 20.0 |
| unknown6.75 | 6.75 | 49.5 | ng | 2045440 | 1 | 6.97 | 826235 | 20.0 |
| Naphthalene, 1-me... | 9.06 | 3.7 | ng | 202523 | 2 | 8.25 | 1097360 | 20.0 |
| Naphthalene, 2,3-... | 9.66 | 2.2 | ng | 135976 | 3 | 10.01 | 1223790 | 20.0 |
| Dibenzothiophene | 11.39 | 2.8 | ng | 175974 | 4 | 11.49 | 1280970 | 20.0 |
| Phenanthrene, 2-m... | 12.02 | 5.2 | ng | 331524 | 4 | 11.49 | 1280970 | 20.0 |
| 4H-Cyclopenta[def... | 12.11 | 3.2 | ng | 202683 | 4 | 11.49 | 1280970 | 20.0 |
| Cyclopentadecane | 12.52 | 5.6 | ng | 356135 | 4 | 11.49 | 1280970 | 20.0 |
| Nonadecyl pentafl... | 13.97 | 5.8 | ng | 317504 | 5 | 14.14 | 1097030 | 20.0 |