LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

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-BF071618.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 | 2.519 | 28 | 31 | 39 | rVB5 | 33582 | 48172 | 3.82% | 0.257% |
| 2 | 3.184 | 137 | 144 | 151 | rVB5 | 37634 | 69771 | 5.53% | 0.372% |
| 3 | 4.119 | 299 | 303 | 308 | rVB3 | 19837 | 32960 | 2.61% | 0.176% |
| 4 | 4.854 | 424 | 428 | 433 | rVB2 | 53133 | 58720 | 4.65% | 0.313% |
| 5 | 5.201 | 483 | 487 | 491 | rVB | 65263 | 66904 | 5.30% | 0.356% |
| 6 | 5.601 | 551 | 555 | 559 | rVB | 644201 | 568393 | 45.03% | 3.028% |
| 7 | 5.719 | 570 | 575 | 581 | rBV2 | 25752 | 28333 | 2.24% | 0.151% |
| 8 | 6.537 | 711 | 714 | 716 | rBV3 | 20842 | 24586 | 1.95% | 0.131% |
| 9 | 6.572 | 716 | 720 | 722 | rVV3 | 31552 | 53590 | 4.25% | 0.285% |
| 10 | 6.601 | 722 | 725 | 732 | rVB | 664416 | 573856 | 45.46% | 3.057% |
| 11 | 6.748 | 745 | 750 | 753 | rBV | 788556 | 650097 | 51.51% | 3.463% |
| 12 | 6.801 | 756 | 759 | 762 | rVB3 | 37081 | 40353 | 3.20% | 0.215% |
| 13 | 6.978 | 784 | 789 | 793 | rBV | 856615 | 828805 | 65.66% | 4.415% |
| 14 | 7.066 | 796 | 804 | 807 | rBV2 | 90629 | 96899 | 7.68% | 0.516% |
| 15 | 7.137 | 812 | 816 | 820 | rBV | 662670 | 534909 | 42.38% | 2.849% |
| 16 | 7.301 | 841 | 844 | 850 | rVB5 | 16142 | 23821 | 1.89% | 0.127% |
| 17 | 7.366 | 851 | 855 | 859 | rBV | 225063 | 195563 | 15.49% | 1.042% |
| 18 | 7.407 | 859 | 862 | 865 | rBV | 157069 | 125206 | 9.92% | 0.667% |
| 19 | 7.537 | 881 | 884 | 887 | rVV | 446587 | 393345 | 31.16% | 2.095% |
| 20 | 7.560 | 887 | 888 | 891 | rVB | 34769 | 26350 | 2.09% | 0.140% |
| 21 | 7.984 | 954 | 960 | 961 | rBV4 | 24822 | 27629 | 2.19% | 0.147% |
| 22 | 8.231 | 997 | 1002 | 1004 | rBV | 50820 | 55261 | 4.38% | 0.294% |
| 23 | 8.266 | 1004 | 1008 | 1011 | rVV | 1180729 | 1033932 | 81.92% | 5.508% |
| 24 | 8.313 | 1014 | 1016 | 1021 | rVB4 | 20249 | 23233 | 1.84% | 0.124% |
| 25 | 8.401 | 1028 | 1031 | 1037 | rVB2 | 58820 | 79372 | 6.29% | 0.423% |
| 26 | 8.595 | 1059 | 1064 | 1067 | rBV5 | 24389 | 44403 | 3.52% | 0.237% |
| 27 | 8.754 | 1088 | 1091 | 1098 | rVB7 | 24735 | 35905 | 2.84% | 0.191% |
| 28 | 8.842 | 1103 | 1106 | 1110 | rVB2 | 47683 | 46912 | 3.72% | 0.250% |
| 29 | 8.978 | 1126 | 1129 | 1133 | rVB4 | 44321 | 48550 | 3.85% | 0.259% |
| 30 | 9.031 | 1135 | 1138 | 1141 | rBV3 | 67541 | 69949 | 5.54% | 0.373% |
| 31 | 9.060 | 1141 | 1143 | 1145 | rBV2 | 52786 | 42777 | 3.39% | 0.228% |
| 32 | 9.160 | 1159 | 1160 | 1163 | rBV3 | 24987 | 25571 | 2.03% | 0.136% |
| 33 | 9.213 | 1163 | 1169 | 1172 | rVB6 | 64668 | 108186 | 8.57% | 0.576% |
| 34 | 9.248 | 1172 | 1175 | 1181 | rBV5 | 56115 | 70267 | 5.57% | 0.374% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

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-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.301 | 1181 | 1184 | 1185 | rBV2 | 44350 | 30996 | 2.46% | 0.165% |
| 36 | 9.336 | 1185 | 1190 | 1199 | rVB | 1046008 | 996432 | 78.94% | 5.308% |
| 37 | 9.407 | 1199 | 1202 | 1205 | rBV3 | 96302 | 94471 | 7.48% | 0.503% |
| 38 | 9.589 | 1228 | 1233 | 1240 | rBV3 | 27950 | 72552 | 5.75% | 0.386% |
| 39 | 9.648 | 1240 | 1243 | 1245 | rVV3 | 54655 | 48466 | 3.84% | 0.258% |
| 40 | 9.678 | 1245 | 1248 | 1251 | rVV4 | 57057 | 68547 | 5.43% | 0.365% |
| 41 | 9.730 | 1254 | 1257 | 1261 | rVV | 128507 | 149984 | 11.88% | 0.799% |
| 42 | 9.789 | 1263 | 1267 | 1272 | rVB5 | 34931 | 59447 | 4.71% | 0.317% |
| 43 | 9.936 | 1289 | 1292 | 1296 | rBV4 | 93659 | 77089 | 6.11% | 0.411% |
| 44 | 10.025 | 1303 | 1307 | 1314 | rVB2 | 1371093 | 1225725 | 97.11% | 6.529% |
| 45 | 10.107 | 1317 | 1321 | 1322 | rBV4 | 42680 | 37377 | 2.96% | 0.199% |
| 46 | 10.130 | 1322 | 1325 | 1329 | rVB | 369355 | 301816 | 23.91% | 1.608% |
| 47 | 10.172 | 1329 | 1332 | 1335 | rBV2 | 60097 | 57144 | 4.53% | 0.304% |
| 48 | 10.260 | 1344 | 1347 | 1349 | rBV4 | 17745 | 22845 | 1.81% | 0.122% |
| 49 | 10.372 | 1363 | 1366 | 1370 | rBV5 | 36459 | 42320 | 3.35% | 0.225% |
| 50 | 10.436 | 1370 | 1377 | 1380 | rBV4 | 203736 | 276282 | 21.89% | 1.472% |
| 51 | 10.495 | 1385 | 1387 | 1392 | rVB6 | 18660 | 23586 | 1.87% | 0.126% |
| 52 | 10.654 | 1410 | 1414 | 1417 | rBV7 | 37284 | 52222 | 4.14% | 0.278% |
| 53 | 10.736 | 1422 | 1428 | 1433 | rVV5 | 57424 | 95748 | 7.59% | 0.510% |
| 54 | 10.783 | 1433 | 1436 | 1437 | rVV3 | 28240 | 21294 | 1.69% | 0.113% |
| 55 | 10.813 | 1437 | 1441 | 1446 | rVV | 606669 | 518034 | 41.04% | 2.760% |
| 56 | 10.866 | 1448 | 1450 | 1454 | rVV5 | 37154 | 37756 | 2.99% | 0.201% |
| 57 | 10.913 | 1455 | 1458 | 1464 | rVB3 | 122747 | 153770 | 12.18% | 0.819% |
| 58 | 11.101 | 1487 | 1490 | 1491 | rBV3 | 26160 | 21625 | 1.71% | 0.115% |
| 59 | 11.166 | 1498 | 1501 | 1504 | rBV | 135384 | 131803 | 10.44% | 0.702% |
| 60 | 11.313 | 1520 | 1526 | 1530 | rVB8 | 16702 | 31342 | 2.48% | 0.167% |
| 61 | 11.360 | 1532 | 1534 | 1537 | rBV | 93977 | 83416 | 6.61% | 0.444% |
| 62 | 11.395 | 1537 | 1540 | 1542 | rVB4 | 39418 | 32244 | 2.55% | 0.172% |
| 63 | 11.519 | 1557 | 1561 | 1564 | rBV | 1314135 | 1118325 | 88.60% | 5.957% |
| 64 | 11.789 | 1604 | 1607 | 1610 | rBV3 | 41730 | 39426 | 3.12% | 0.210% |
| 65 | 11.889 | 1621 | 1624 | 1627 | rVB5 | 39004 | 37374 | 2.96% | 0.199% |
| 66 | 12.042 | 1644 | 1650 | 1652 | rVV6 | 149325 | 283519 | 22.46% | 1.510% |
| 67 | 12.066 | 1652 | 1654 | 1659 | rVB | 171746 | 191719 | 15.19% | 1.021% |
| 68 | 12.201 | 1674 | 1677 | 1681 | rVB5 | 40935 | 48731 | 3.86% | 0.260% |
| 69 | 12.372 | 1705 | 1706 | 1711 | rVB5 | 21673 | 23553 | 1.87% | 0.125% |
| 70 | 12.501 | 1723 | 1728 | 1731 | rBV6 | 15982 | 22219 | 1.76% | 0.118% |
| 71 | 12.566 | 1736 | 1739 | 1741 | rBV4 | 30860 | 26441 | 2.09% | 0.141% |

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Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

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-BF071618.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.660 | 1751 | 1755 | 1760 | rBV8 | 34522 | 56409 | 4.47% | 0.300% |
| 73 | 12.724 | 1764 | 1766 | 1769 | rBV3 | 21108 | 22220 | 1.76% | 0.118% |
| 74 | 12.801 | 1776 | 1779 | 1781 | rBV3 | 30334 | 31654 | 2.51% | 0.169% |
| 75 | 12.960 | 1804 | 1806 | 1810 | rBV4 | 44473 | 43304 | 3.43% | 0.231% |
| 76 | 13.060 | 1819 | 1823 | 1825 | rVV5 | 15542 | 22803 | 1.81% | 0.121% |
| 77 | 13.101 | 1826 | 1830 | 1833 | rVB | 865837 | 722339 | 57.23% | 3.848% |
| 78 | 13.319 | 1864 | 1867 | 1869 | rBV4 | 28394 | 34419 | 2.73% | 0.183% |
| 79 | 13.571 | 1905 | 1910 | 1914 | rVB5 | 54948 | 89439 | 7.09% | 0.476% |
| 80 | 13.771 | 1941 | 1944 | 1945 | rBV3 | 17548 | 22903 | 1.81% | 0.122% |
| 81 | 13.789 | 1945 | 1947 | 1954 | rVB7 | 49874 | 71449 | 5.66% | 0.381% |
| 82 | 13.918 | 1964 | 1969 | 1973 | rVB6 | 87751 | 95047 | 7.53% | 0.506% |
| 83 | 13.966 | 1973 | 1977 | 1979 | rBV5 | 19787 | 36088 | 2.86% | 0.192% |
| 84 | 14.124 | 2001 | 2004 | 2007 | rBV3 | 50271 | 54019 | 4.28% | 0.288% |
| 85 | 14.166 | 2007 | 2011 | 2016 | rVV | 979396 | 952950 | 75.50% | 5.076% |
| 86 | 14.207 | 2016 | 2018 | 2020 | rVB2 | 36787 | 34590 | 2.74% | 0.184% |
| 87 | 14.413 | 2050 | 2053 | 2057 | rVV5 | 29733 | 42798 | 3.39% | 0.228% |
| 88 | 14.554 | 2074 | 2077 | 2079 | rBV4 | 53199 | 67280 | 5.33% | 0.358% |
| 89 | 14.595 | 2080 | 2084 | 2090 | rVV7 | 105463 | 202067 | 16.01% | 1.076% |
| 90 | 14.689 | 2094 | 2100 | 2107 | rBV | 1228061 | 1262197 | 100.00% | 6.724% |
| 91 | 15.236 | 2191 | 2193 | 2201 | rBV9 | 46157 | 96857 | 7.67% | 0.516% |
| 92 | 15.707 | 2267 | 2273 | 2279 | rBV | 639302 | 927985 | 73.52% | 4.943% |
| 93 | 16.342 | 2380 | 2381 | 2387 | rVB6 | 27307 | 37342 | 2.96% | 0.199% |
| 94 | 16.589 | 2416 | 2423 | 2429 | rVB6 | 58424 | 139623 | 11.06% | 0.744% |
| 95 | 16.695 | 2434 | 2441 | 2448 | rVB3 | 449564 | 874898 | 69.32% | 4.661% |
| 96 | 17.030 | 2494 | 2498 | 2501 | rBV5 | 15058 | 26186 | 2.07% | 0.139% |
| 97 | 17.965 | 2654 | 2657 | 2659 | rBV3 | 20989 | 28439 | 2.25% | 0.151% |
| 98 | 18.271 | 2706 | 2709 | 2711 | rBV4 | 14668 | 23108 | 1.83% | 0.123% |
| 99 | 18.665 | 2773 | 2776 | 2777 | rBV3 | 22705 | 23954 | 1.90% | 0.128% |
| 100 | 18.771 | 2791 | 2794 | 2795 | rBV3 | 18449 | 21536 | 1.71% | 0.115% |

Sum of corrected areas: 18772123

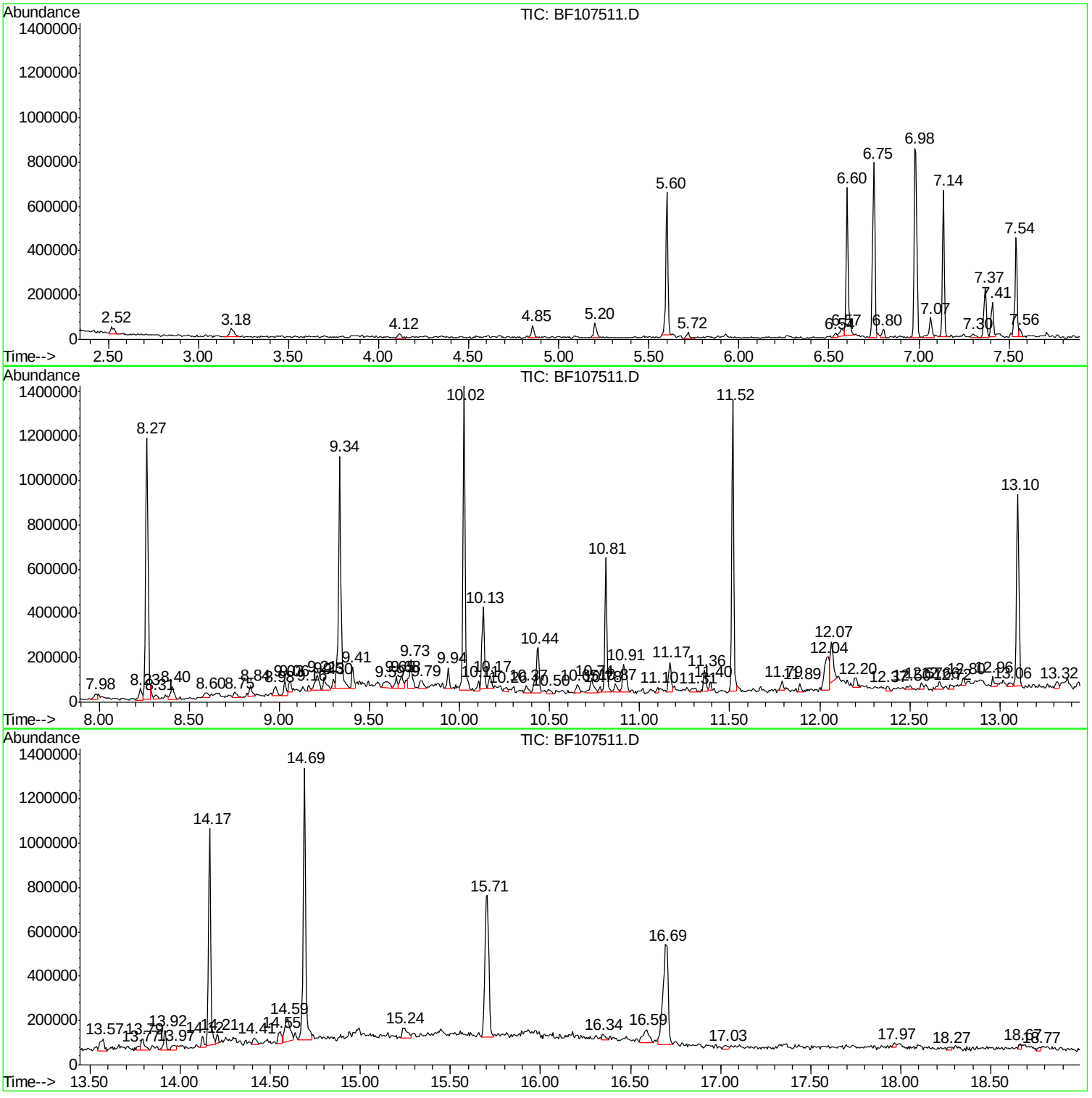
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

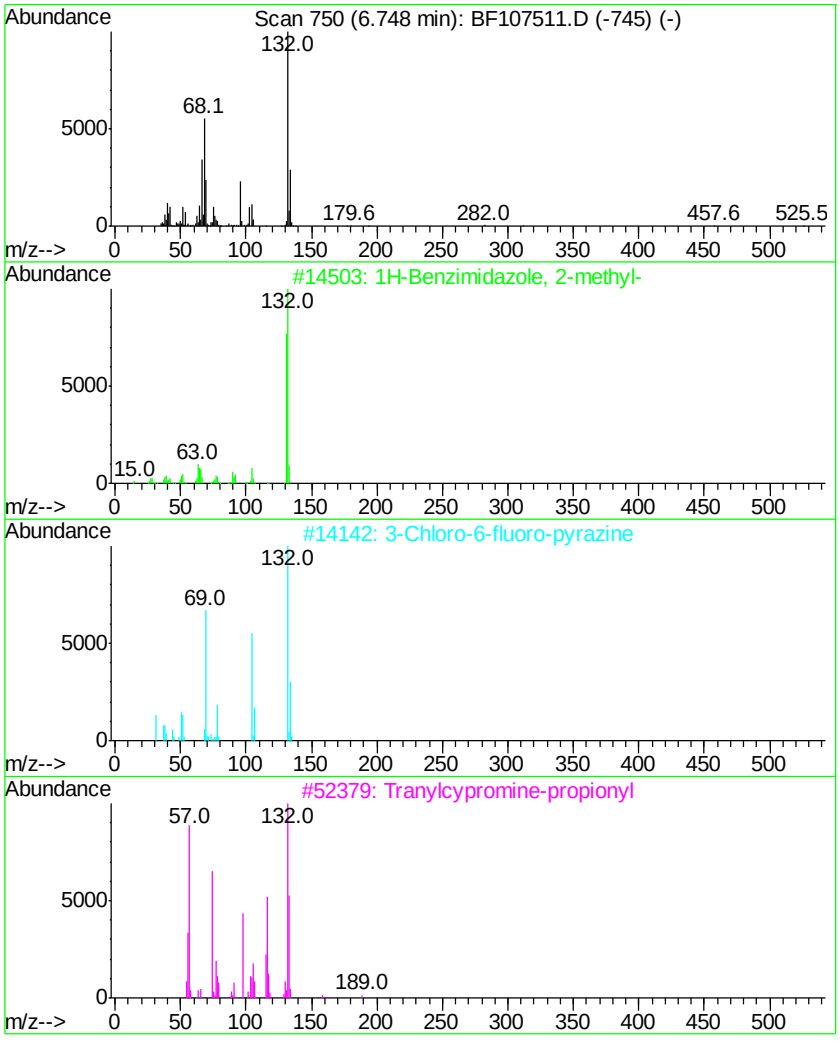
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

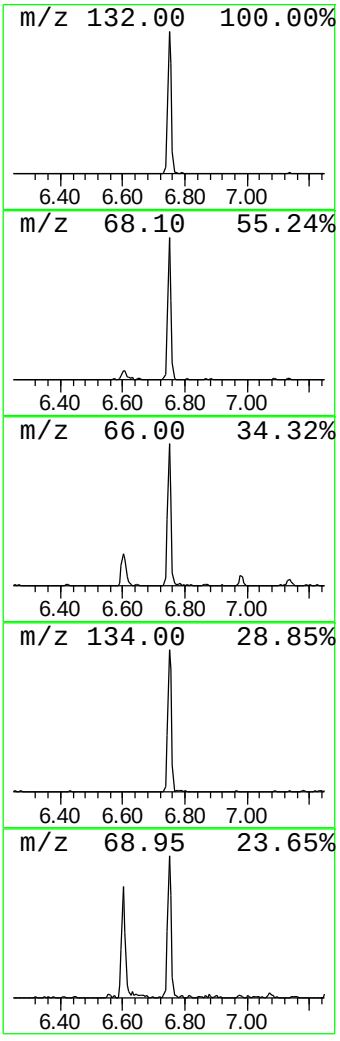
**********

Peak Number 1 unknown6.75 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.75 | 15.69 ng | 650097 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 27 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 22 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 22 |
| 4 | 4-Chloro-6-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-01-6 | 22 |
| 5 | 1,3-Cyclopentanedione, 2-chloro- | 132 | C5H5ClO2 | 014203-19-1 | 17 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

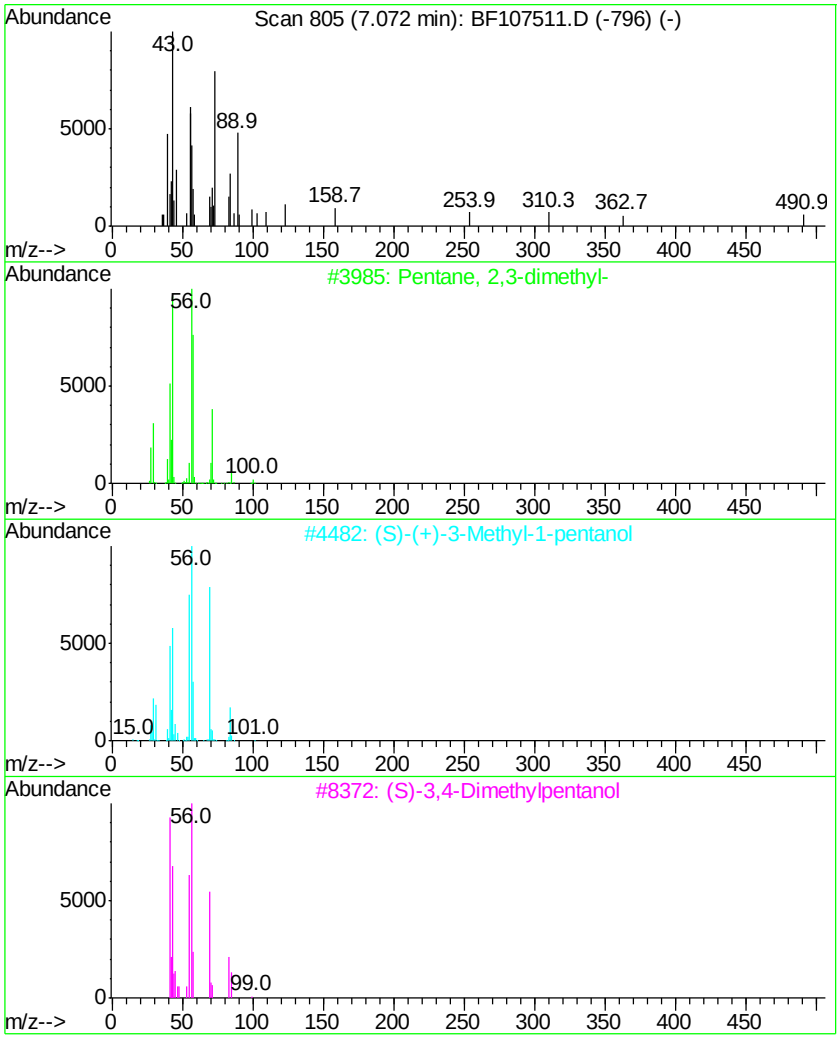
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

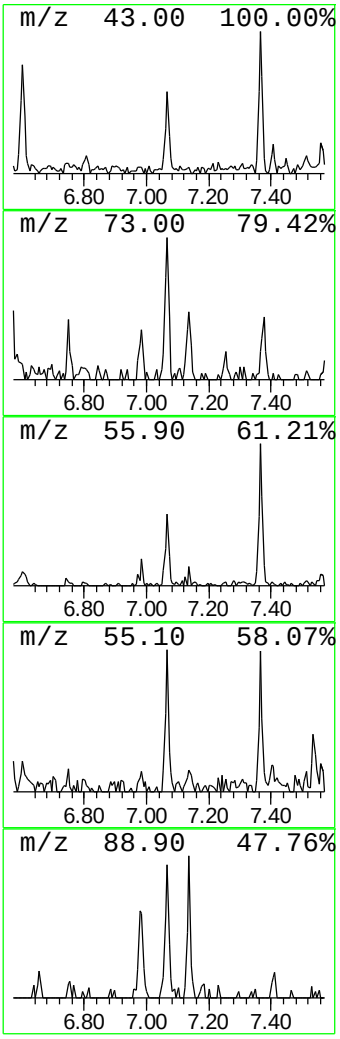
**********

Peak Number 2 unknown7.07 Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.07 | 2.34 ng | 96899 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 37 |
| 2 | (S)-(+)-3-Methyl-1-pentanol | 102 | C6H14O | 042072-39-9 | 37 |
| 3 | (S)-3,4-Dimethylpentanol | 116 | C7H16O | 1000143-83-9 | 37 |
| 4 | Neopentyl glycol | 104 | C5H12O2 | 000126-30-7 | 37 |
| 5 | Aziridine, 1-(2-buten-2-yl)- | 97 | C6H11N | 1000158-95-2 | 32 |



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Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

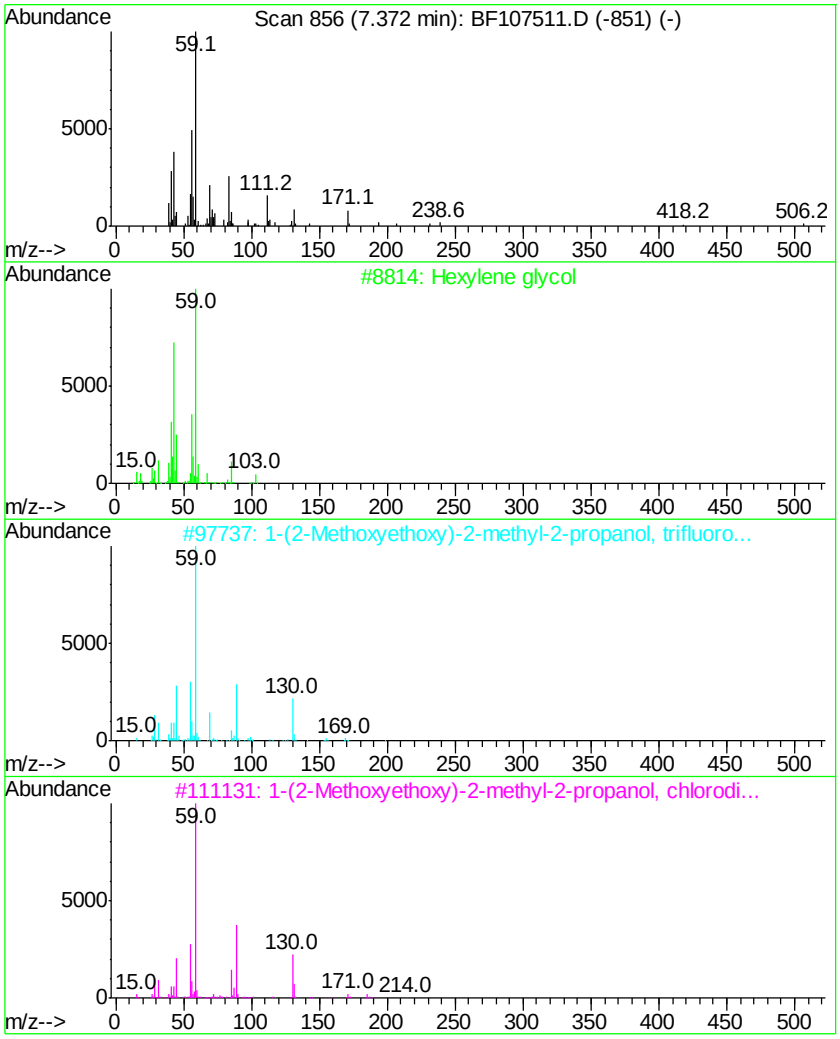
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

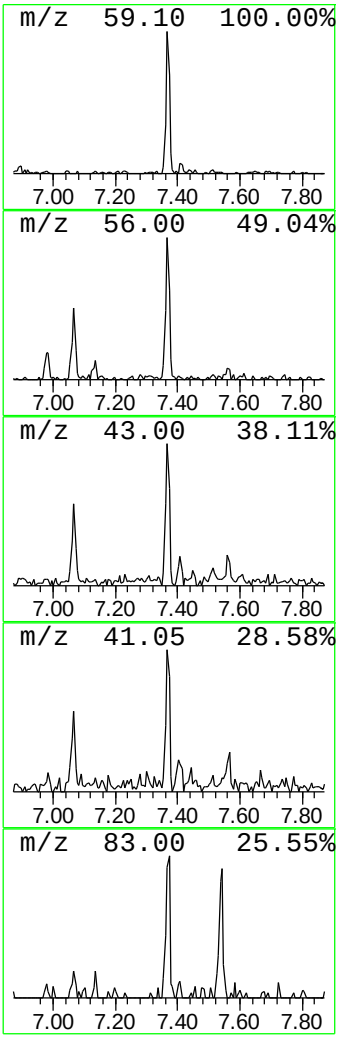
**********

Peak Number 4 unknown7.37 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.37 | 4.72 ng | 195563 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexylene glycol | 118 | C6H14O2 | 000107-41-5 | 47 |
| 2 | 1-(2-Methoxyethoxy)-2-methyl-2-p... | 244 | C9H15F3O4 | 1000364-20-3 | 43 |
| 3 | 1-(2-Methoxyethoxy)-2-methyl-2-p... | 260 | C9H15ClF2O4 | 1000376-27-3 | 43 |
| 4 | Cyclohexane, (ethoxymethoxy)- | 158 | C9H18O2 | 054699-29-5 | 37 |
| 5 | 2-Hexanol, 2,3-dimethyl- | 130 | C8H18O | 019550-03-9 | 35 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
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Acq On : 19 Jul 2018 12:27
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Misc :
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**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

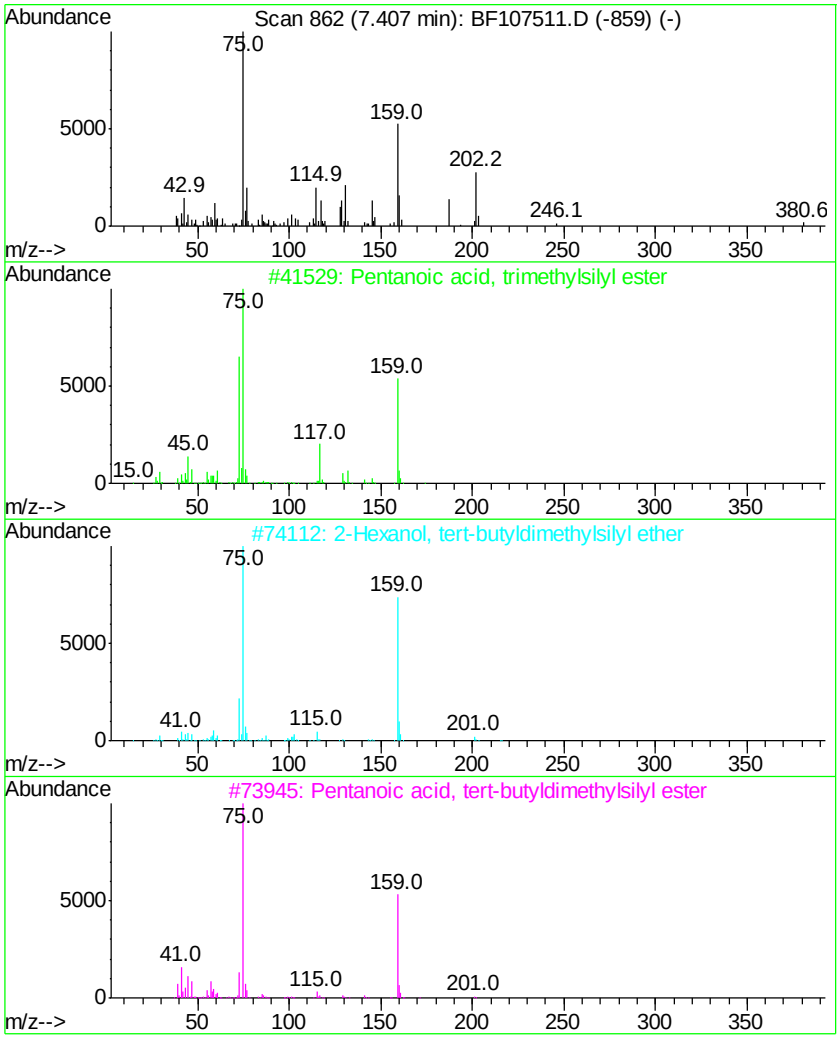
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

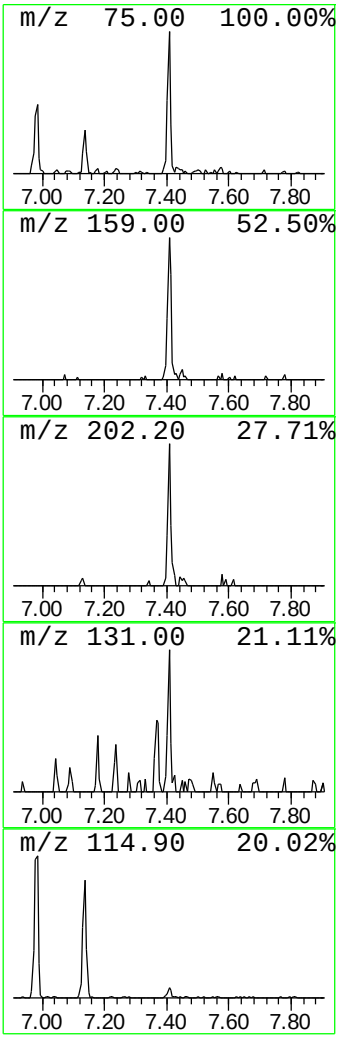
**********

Peak Number 5 Pentanoic acid, trimethylsi... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.41 | 3.02 ng | 125206 | 1,4-Dichlorobenzene-d4 | 6.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentanoic acid, trimethylsilyl e... | 174 | C8H18O2Si | 026429-16-3 | 50 |
| 2 | 2-Hexanol, tert-butyldimethylsil... | 216 | C12H28OSi | 1000333-30-5 | 47 |
| 3 | Pentanoic acid, tert-butyldimeth... | 216 | C11H24O2Si | 104256-46-4 | 47 |
| 4 | 3-Methyl-2-butanone, 4-t-butyldi... | 216 | C11H24O2Si | 191546-09-5 | 38 |
| 5 | 1-Dimethyl(prop-2-enyl)silyloxyo... | 228 | C13H28OSi | 160882-62-2 | 35 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

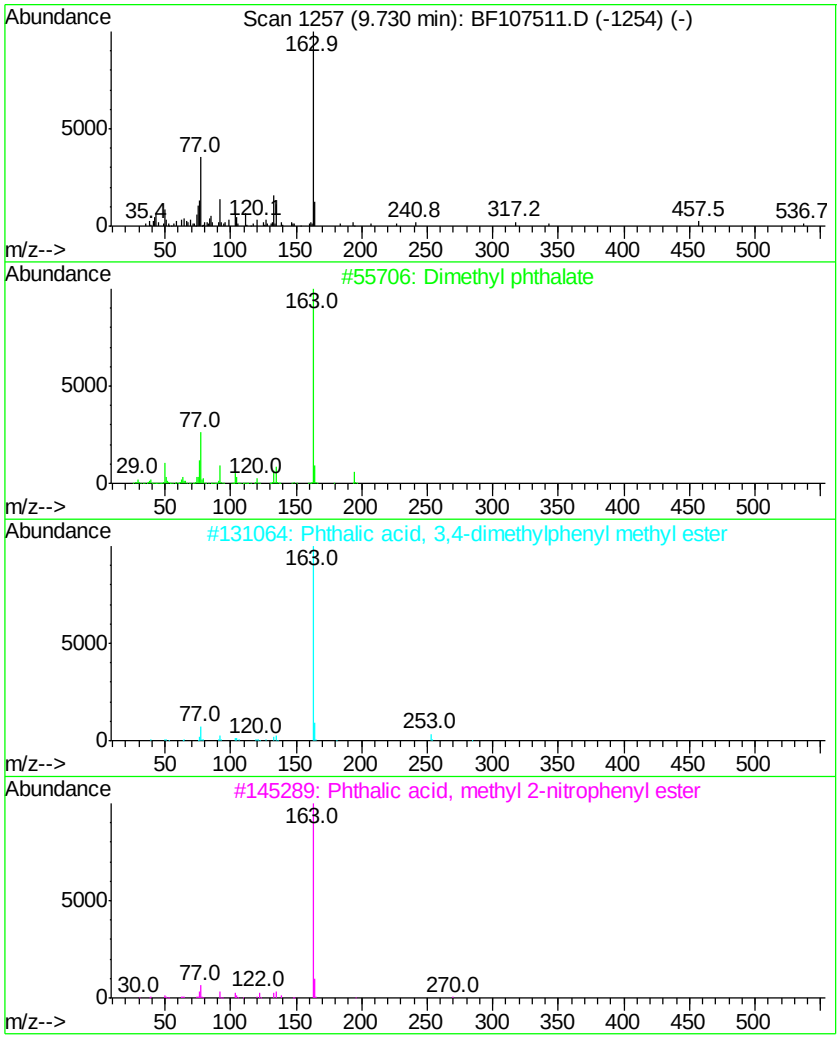
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

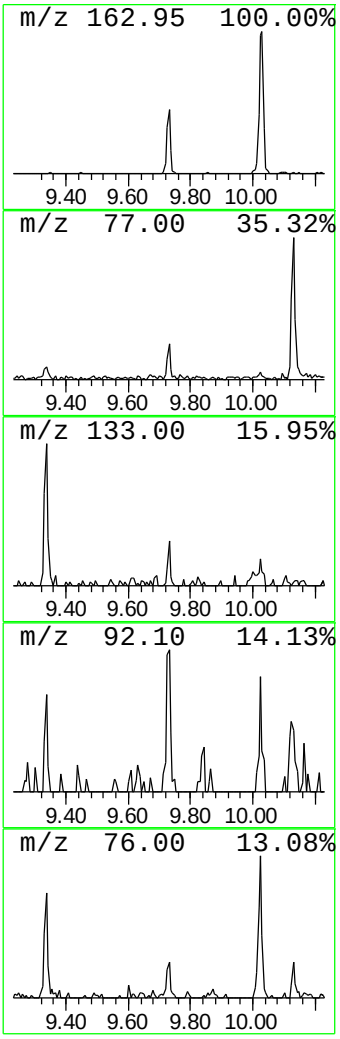
**********

Peak Number 6 Dimethyl phthalate Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.73 | 2.45 ng | 149984 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethyl phthalate | 194 | C10H10O4 | 000131-11-3 | 94 |
| 2 | Phthalic acid, 3,4-dimethylphenyl... | 284 | C17H16O4 | 1000315-69-7 | 78 |
| 3 | Phthalic acid, methyl 2-nitrophe... | 301 | C15H11NO6 | 1000315-68-3 | 78 |
| 4 | 1,2-Benzenedicarboxylic acid, bu... | 236 | C13H16O4 | 034006-76-3 | 72 |
| 5 | Phthalic acid, 2-chlorophenyl me... | 290 | C15H11ClO4 | 1000315-64-1 | 64 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

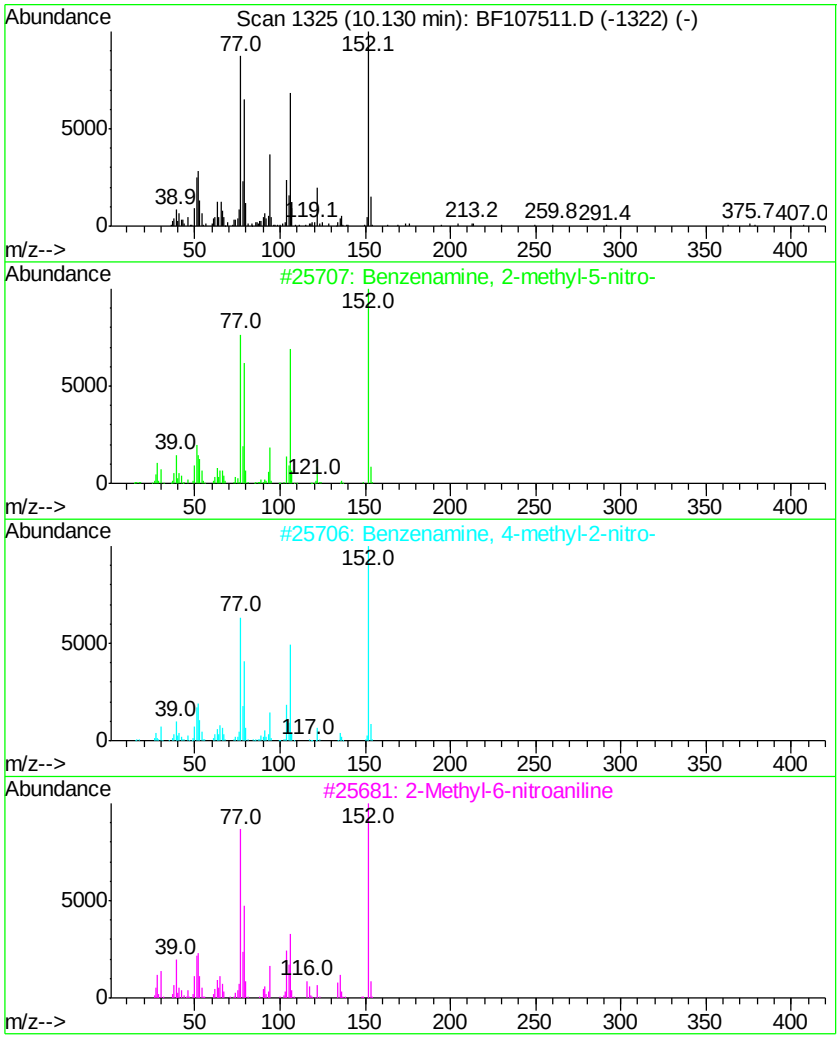
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

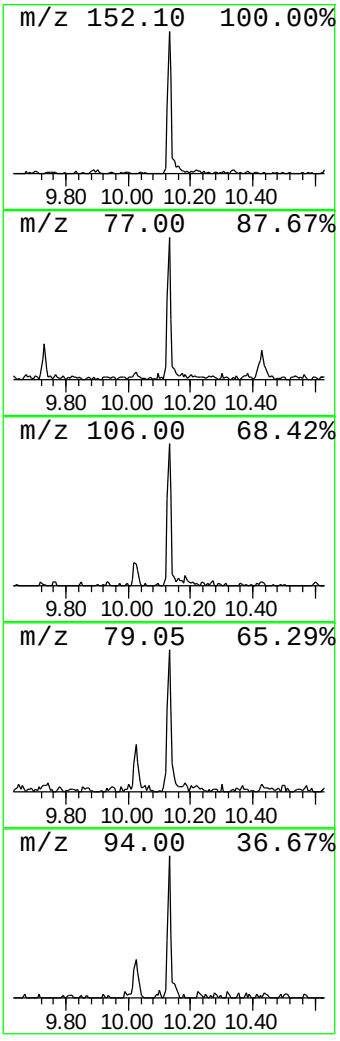
**********

Peak Number 7 Benzenamine, 2-methyl-5-nitro- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.13 | 4.92 ng | 301816 | Acenaphthene-d10 | 10.02 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzenamine, 2-methyl-5-nitro- | 152 | C7H8N2O2 | 000099-55-8 | 93 |
| 2 | Benzenamine, 4-methyl-2-nitro- | 152 | C7H8N2O2 | 000089-62-3 | 92 |
| 3 | 2-Methyl-6-nitroaniline | 152 | C7H8N2O2 | 000570-24-1 | 87 |
| 4 | Benzenamine, 2-methyl-4-nitro- | 152 | C7H8N2O2 | 000099-52-5 | 87 |
| 5 | 5-Methyl-2-nitroaniline | 152 | C7H8N2O2 | 000578-46-1 | 58 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

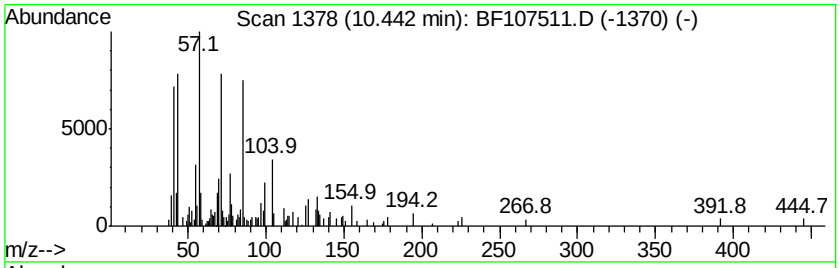
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

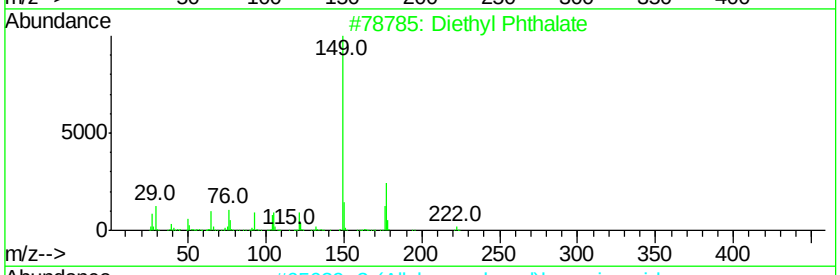
**********

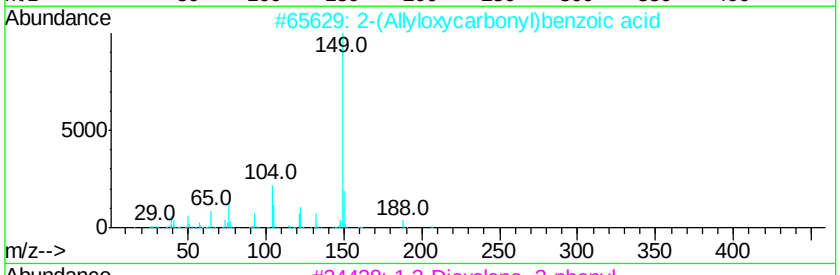
Peak Number 8 unknown10.44 Concentration Rank 7

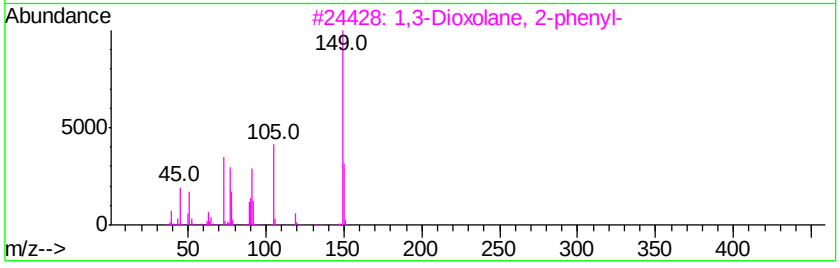
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.44 | 4.51 ng | 276282 | Acenaphthene-d10 | 10.02 |

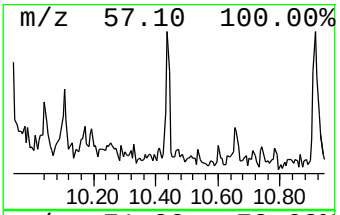
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Diethyl Phthalate | 222 | C12H14O4 | 000084-66-2 | 38 |
| 2 | 2-(Allyloxycarbonyl)benzoic acid | 206 | C11H10O4 | 1000373-67-6 | 35 |
| 3 | 1,3-Dioxolane, 2-phenyl- | 150 | C9H10O2 | 000936-51-6 | 30 |
| 4 | Eicosane | 282 | C20H42 | 000112-95-8 | 25 |
| 5 | Benzothiazole, 2-methyl- | 149 | C8H7NS | 000120-75-2 | 25 |

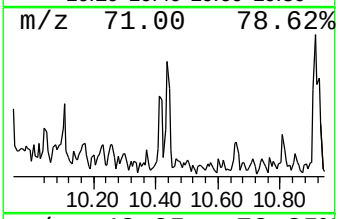


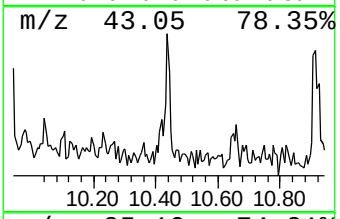



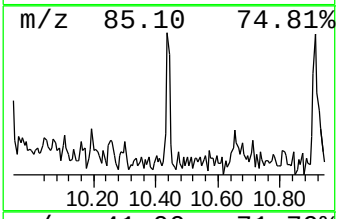



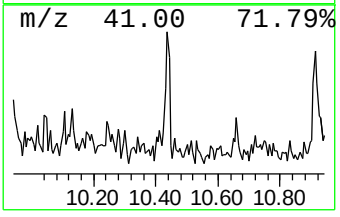



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

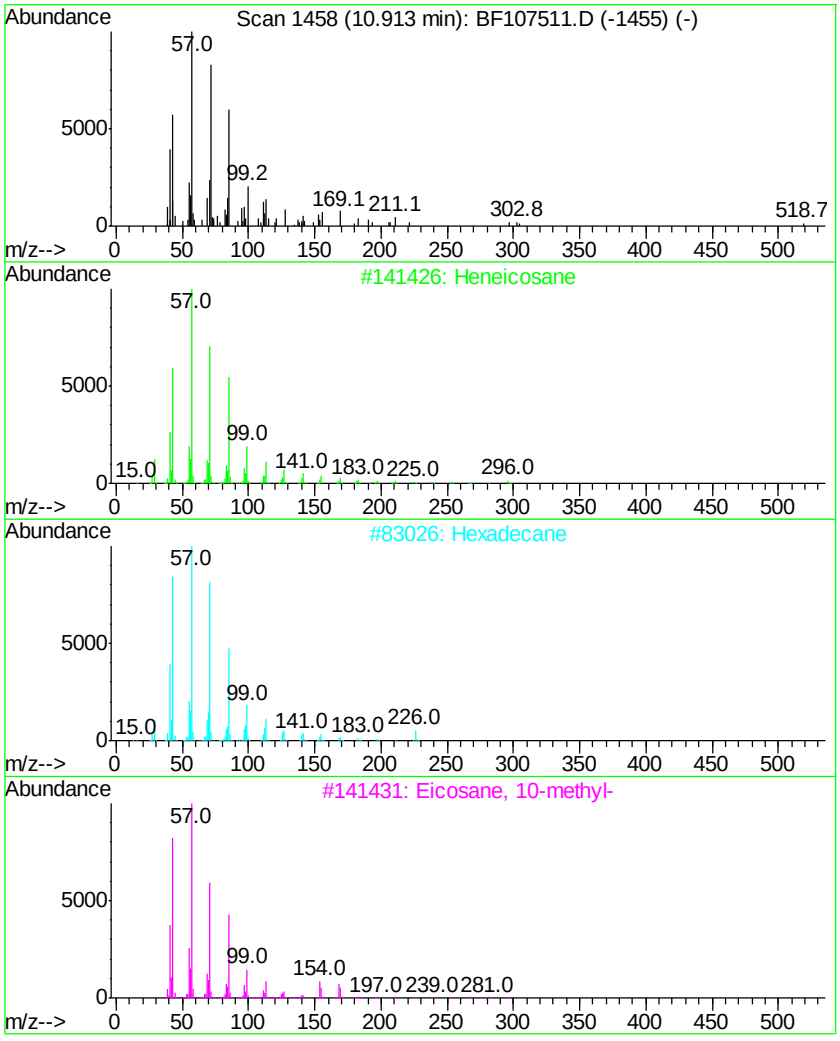
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

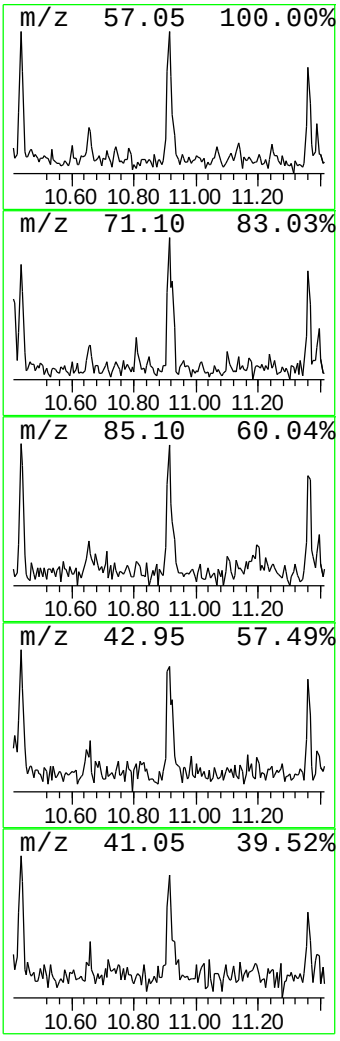
**********

Peak Number 9 Heneicosane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.91 | 2.75 ng | 153770 | Phenanthrene-d10 | 11.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 93 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 3 | Eicosane, 10-methyl- | 296 | C21H44 | 054833-23-7 | 80 |
| 4 | Heptadecane | 240 | C17H36 | 000629-78-7 | 80 |
| 5 | Nonadecane, 9-methyl- | 282 | C20H42 | 013287-24-6 | 80 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

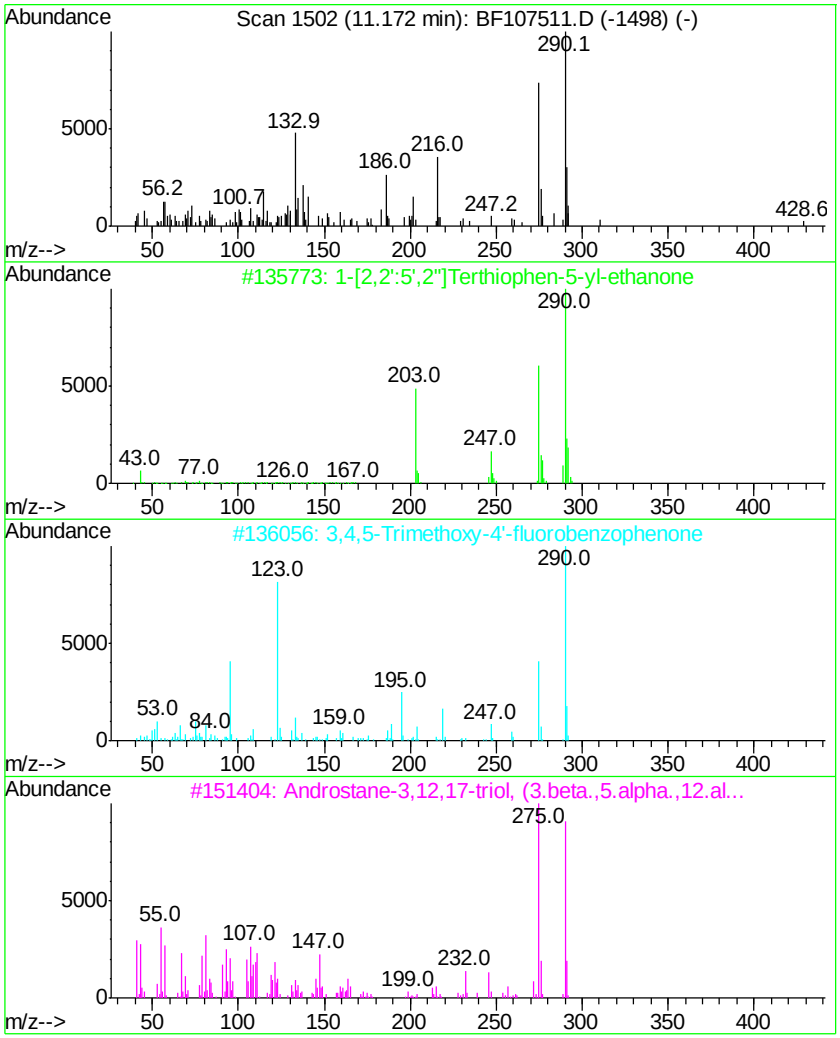
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

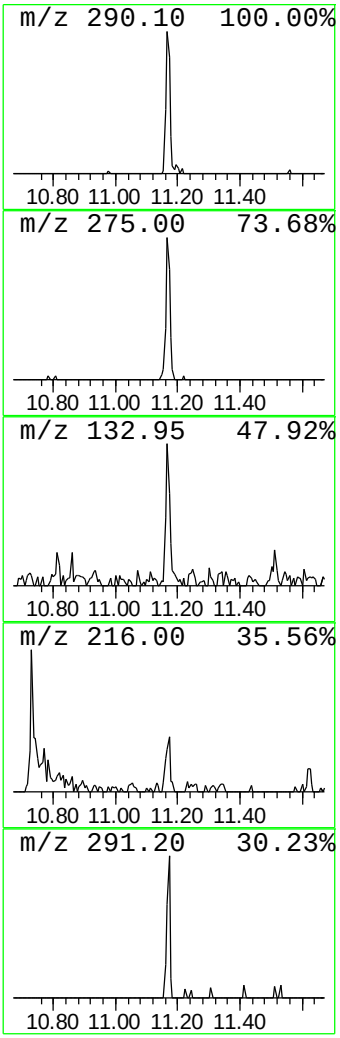
**********

Peak Number 10 unknown11.17 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.17 | 2.36 ng | 131803 | Phenanthrene-d10 | 11.52 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-[2,2':5',2'']Terthiophen-5-yl-... | 290 | C14H10OS3 | 1000311-61-7 | 47 |
| 2 | 3,4,5-Trimethoxy-4'-fluorobenzop... | 290 | C16H15FO4 | 026186-46-9 | 38 |
| 3 | Androstane-3,12,17-triol, (3.bet... | 308 | C19H32O3 | 053604-41-4 | 38 |
| 4 | Diphenylphosphoryl azide | 275 | C12H10N3O3P | 026386-88-9 | 25 |
| 5 | Ferrocene, benzoyl- | 290 | C17H14FeO | 001272-44-2 | 22 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

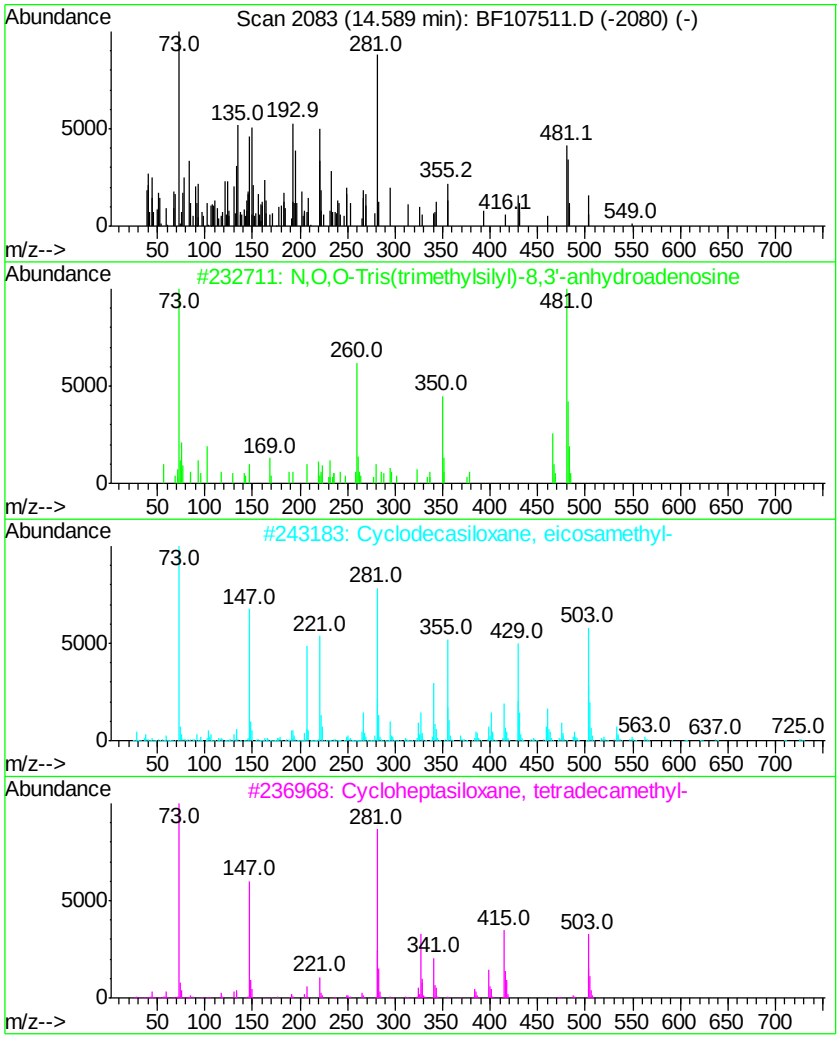
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

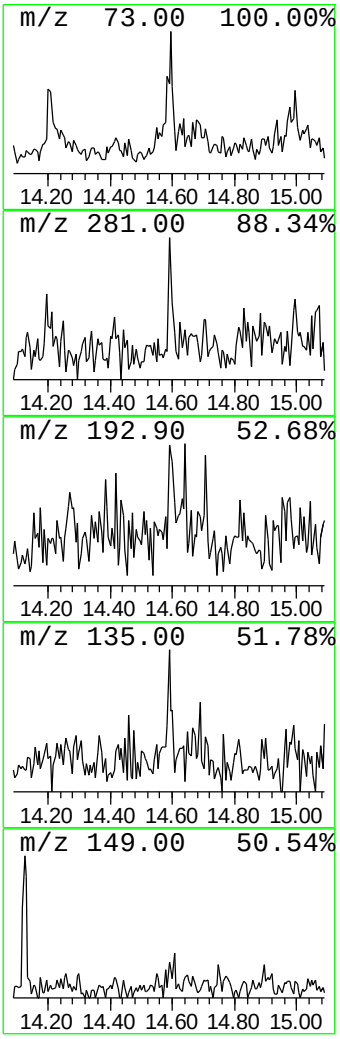
**********

Peak Number 11 unknown14.59 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.59 | 4.24 ng | 202067 | Chrysene-d12 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | N,O,O-Tris(trimethylsilyl)-8,3'-... | 481 | C19H35N5O4Si3 | 1000067-33-6 | 35 |
| 2 | Cyclodecasiloxane, eicosamethyl- | 740 | C20H60O10Si10 | 018772-36-6 | 22 |
| 3 | Cycloheptasiloxane, tetradecamet... | 518 | C14H42O7Si7 | 000107-50-6 | 10 |
| 4 | Octasiloxane, 1,1,3,3,5,5,7,7,9,... | 578 | C16H50O7Si8 | 019095-24-0 | 10 |
| 5 | N,O,O-Tris(trimethylsilyl)-8,2'-... | 481 | C19H35N5O4Si3 | 1000067-32-5 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

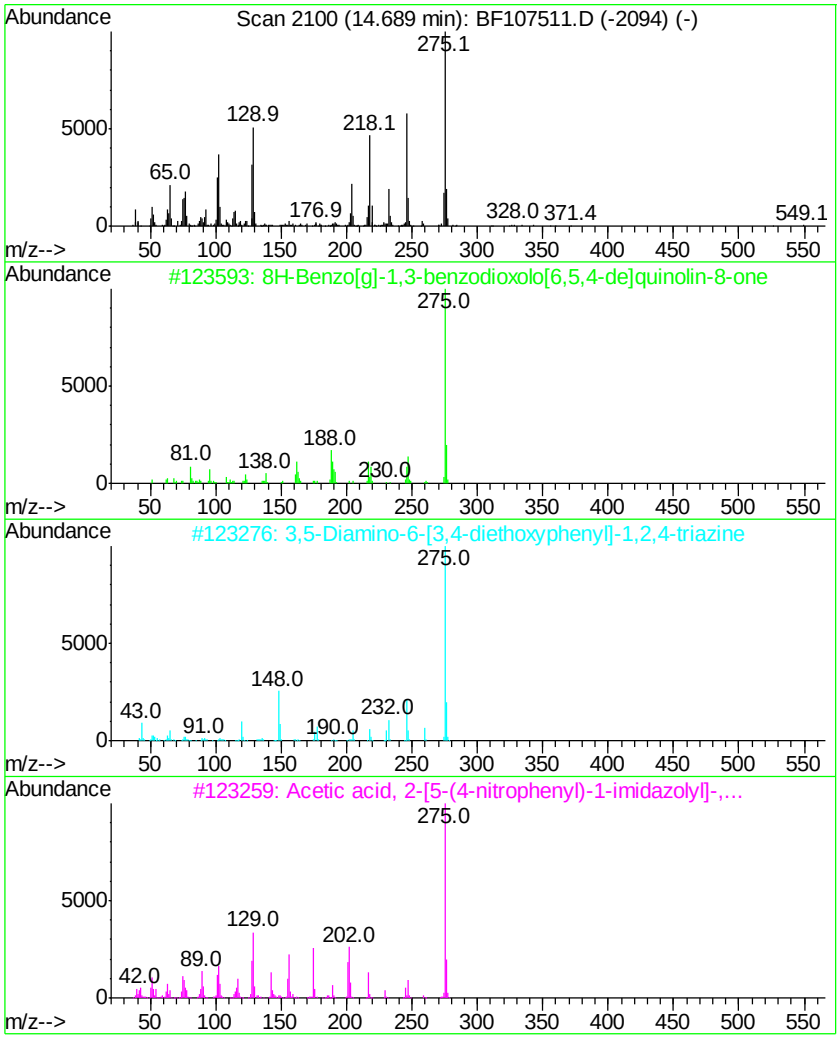
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

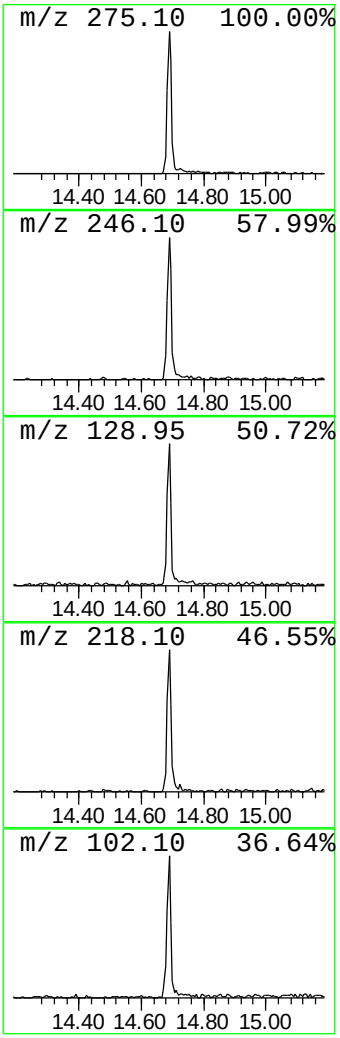
**********

Peak Number 12 unknown14.69 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.69 | 26.49 ng | 1262200 | Chrysene-d12 | 14.17 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 8H-Benzo[g]-1,3-benzodioxolo[6,5... | 275 | C17H9NO3 | 000475-75-2 | 42 |
| 2 | 3,5-Diamino-6-[3,4-diethoxyphenyl... | 275 | C13H17N5O2 | 058848-69-4 | 38 |
| 3 | Acetic acid, 2-[5-(4-nitrophenyl... | 275 | C13H13N3O4 | 351064-45-4 | 38 |
| 4 | 1-Methyl-5'-phenylspiro(indoline... | 275 | C17H13N3O | 015970-21-5 | 35 |
| 5 | 6-Methoxy-3-phenyl-9H-pyridazino... | 275 | C17H13N3O | 003980-94-7 | 30 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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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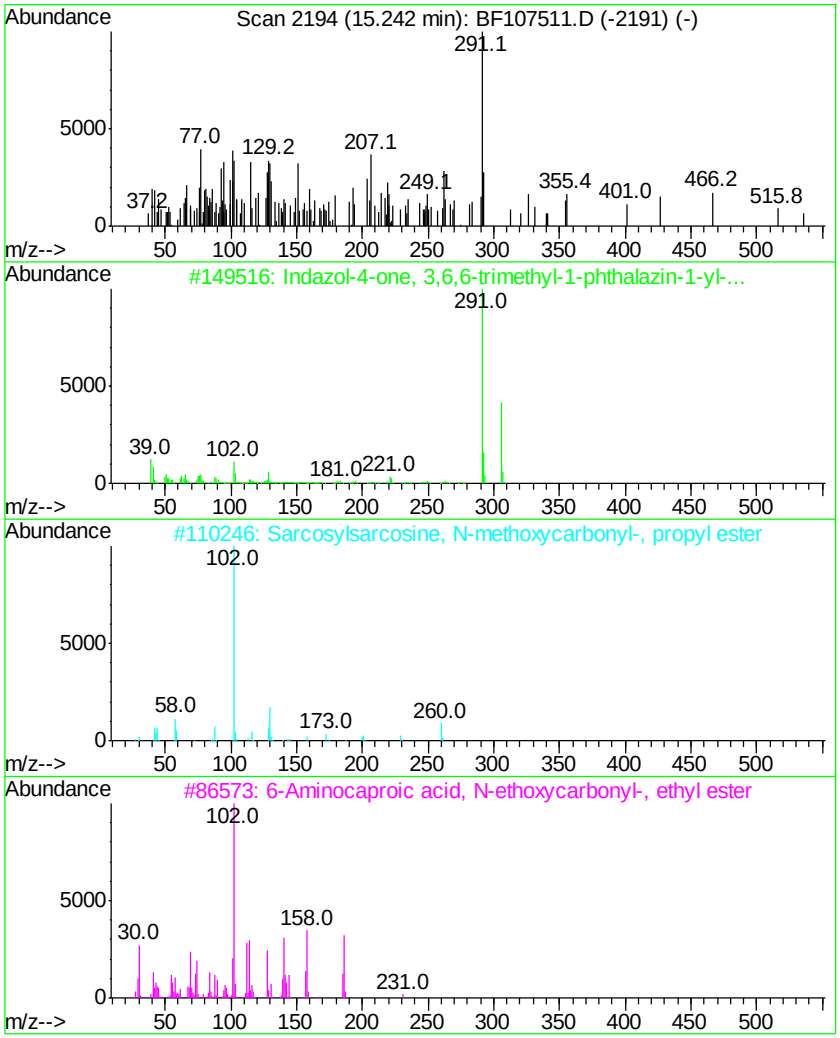
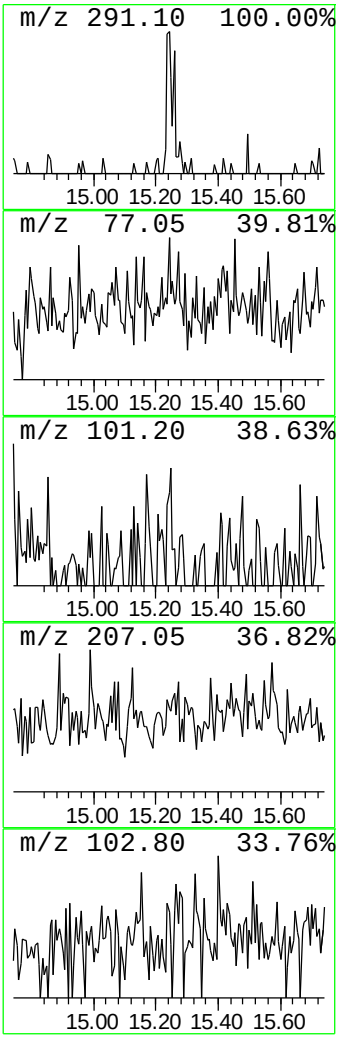
Peak Number 13 unknown15.24 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.24 | 2.09 ng | 96857 | Perylene-d12 | 15.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indazol-4-one, 3,6,6-trimethyl-1... | 306 | C18H18N4O | 1000310-86-5 | 22 |
| 2 | Sarcosylsarcosine, N-methoxycarb... | 260 | C11H20N2O5 | 1000314-82-5 | 10 |
| 3 | 6-Aminocaproic acid, N-ethoxycar... | 231 | C11H21NO4 | 1000329-03-1 | 10 |
| 4 | 4-[4-(4-Nitro-phenyl)-thiazol-2-... | 291 | C13H13N3O3S | 1000294-26-5 | 10 |
| 5 | Salicylic acid, 5-iodo-3-nitro- | 309 | C7H4INO5 | 022621-43-8 | 10 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

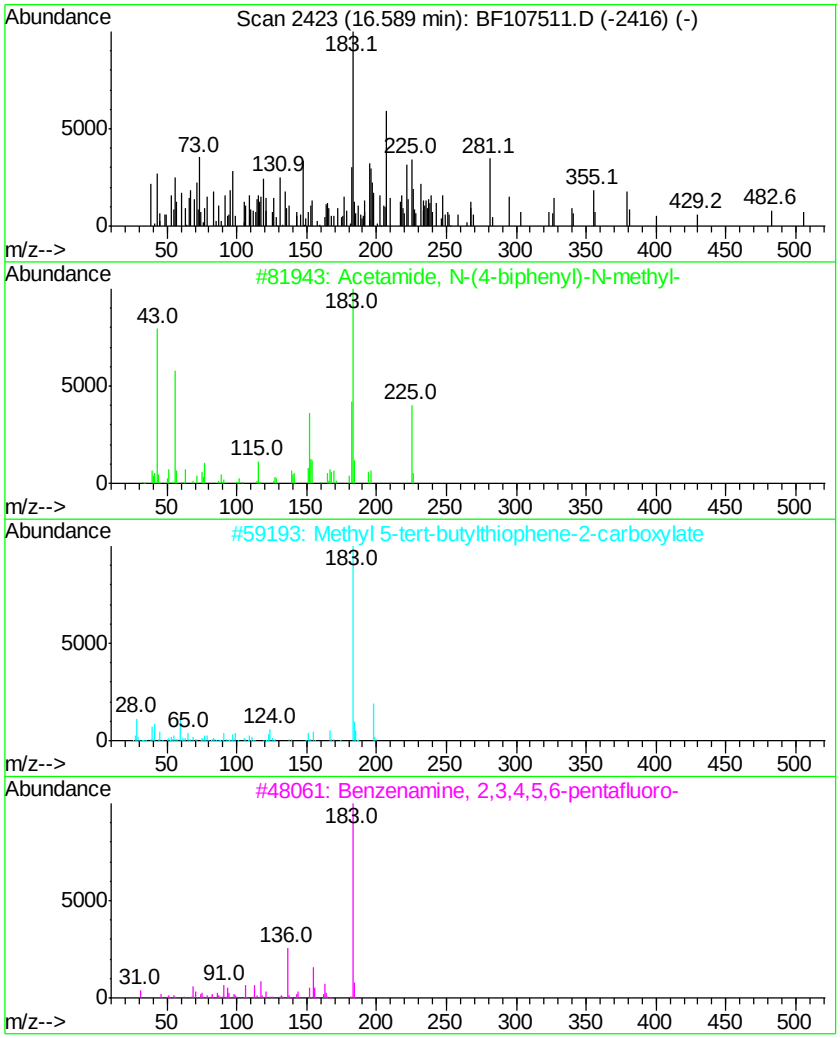
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

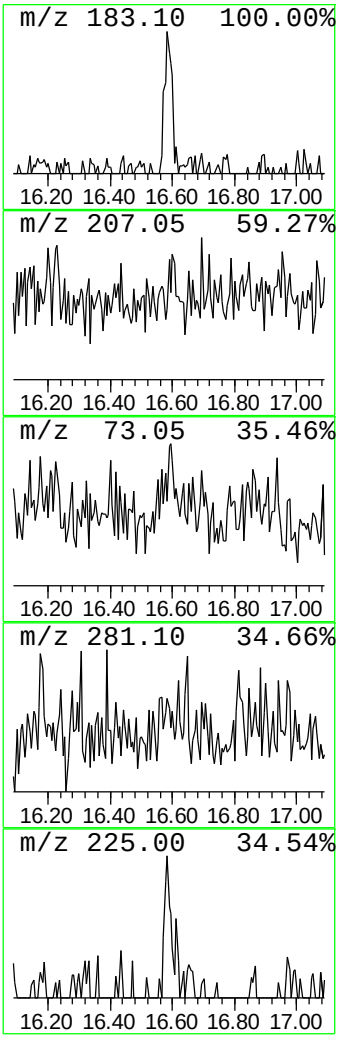
**********

Peak Number 14 unknown16.59 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.59 | 3.01 ng | 139623 | Perylene-d12 | 15.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(4-biphenyl)-N-methyl- | 225 | C15H15NO | 078561-13-4 | 42 |
| 2 | Methyl 5-tert-butylthiophene-2-c... | 198 | C10H14O2S | 229003-19-4 | 25 |
| 3 | Benzenamine, 2,3,4,5,6-pentafluoro- | 183 | C6H2F5N | 000771-60-8 | 25 |
| 4 | Acetamide, 2-(1-methyl-6-oxo-1,6... | 183 | C7H9N3O3 | 1000304-55-8 | 25 |
| 5 | 5-Methyl-4-([3-(2-naphthyloxy)pr... | 326 | C18H18N2O2S | 118365-78-9 | 25 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

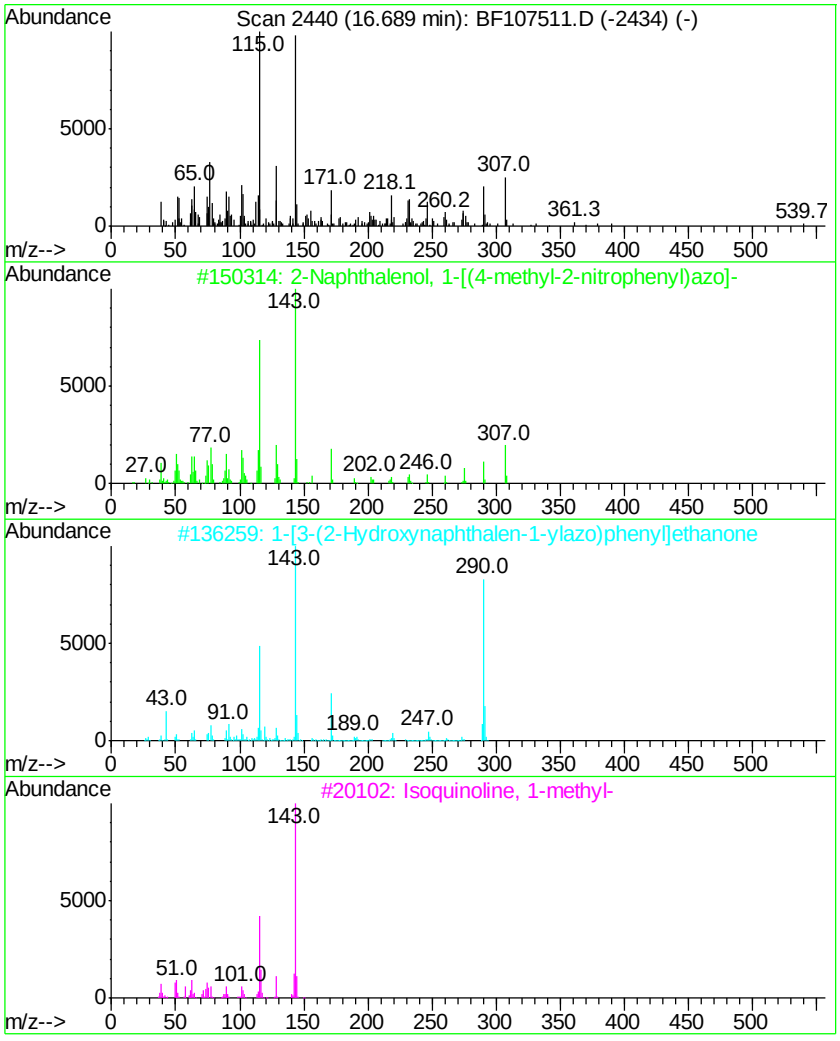
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

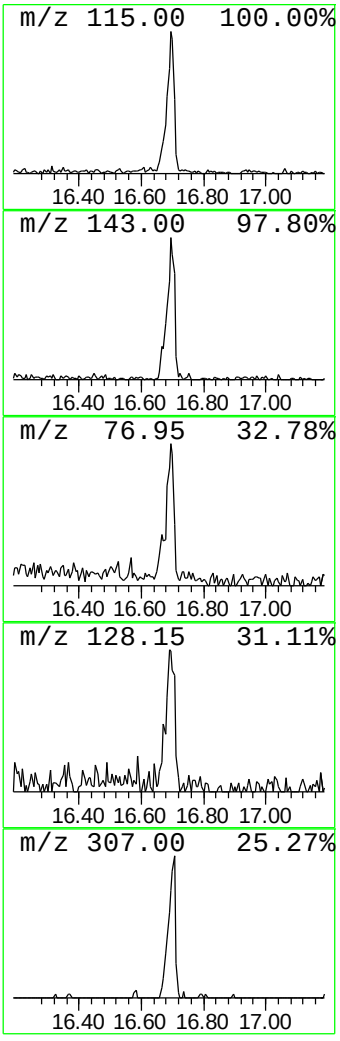
**********

Peak Number 15 2-Naphthalenol, 1-[(4-methy... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.69 | 18.86 ng | 874898 | Perylene-d12 | 15.71 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Naphthalenol, 1-[(4-methyl-2-n... | 307 | C17H13N3O3 | 002425-85-6 | 95 |
| 2 | 1-[3-(2-Hydroxynaphthalen-1-ylaz... | 290 | C18H14N2O2 | 014197-06-9 | 59 |
| 3 | Isoquinoline, 1-methyl- | 143 | C10H9N | 001721-93-3 | 50 |
| 4 | 1H-Pyrrole, 1-phenyl- | 143 | C10H9N | 000635-90-5 | 49 |
| 5 | Indole-2-carboxylic acid | 161 | C9H7NO2 | 001477-50-5 | 49 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF071818\
Data File : BF107511.D
Acq On : 19 Jul 2018 12:27
Operator : JU/SJ
Sample : J4027-06 5X
Misc :
ALS Vial : 47 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** WALL-4-159

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071618.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 |
| unknown6.75 | 6.75 | 15.7 | ng | 650097 | 1 | 6.98 | 828805 | 20.0 |
| unknown7.07 | 7.07 | 2.3 | ng | 96899 | 1 | 6.98 | 828805 | 20.0 |
| unknown7.37 | 7.37 | 4.7 | ng | 195563 | 1 | 6.98 | 828805 | 20.0 |
| Pentanoic acid, t... | 7.41 | 3.0 | ng | 125206 | 1 | 6.98 | 828805 | 20.0 |
| Dimethyl phthalate | 9.73 | 2.5 | ng | 149984 | 3 | 10.02 | 1225730 | 20.0 |
| Benzenamine, 2-me... | 10.13 | 4.9 | ng | 301816 | 3 | 10.02 | 1225730 | 20.0 |
| unknown10.44 | 10.44 | 4.5 | ng | 276282 | 3 | 10.02 | 1225730 | 20.0 |
| Heneicosane | 10.91 | 2.8 | ng | 153770 | 4 | 11.52 | 1118330 | 20.0 |
| unknown11.17 | 11.17 | 2.4 | ng | 131803 | 4 | 11.52 | 1118330 | 20.0 |
| unknown14.59 | 14.59 | 4.2 | ng | 202067 | 5 | 14.17 | 952950 | 20.0 |
| unknown14.69 | 14.69 | 26.5 | ng | 1262200 | 5 | 14.17 | 952950 | 20.0 |
| unknown15.24 | 15.24 | 2.1 | ng | 96857 | 6 | 15.71 | 927985 | 20.0 |
| unknown16.59 | 16.59 | 3.0 | ng | 139623 | 6 | 15.71 | 927985 | 20.0 |
| 2-Naphthalenol, 1... | 16.69 | 18.9 | ng | 874898 | 6 | 15.71 | 927985 | 20.0 |