LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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 | 2.122 | 3 | 6 | 13 | rVB | 70768 | 90343 | 6.34% | 0.383% |
| 2 | 3.004 | 144 | 156 | 162 | rBV2 | 28678 | 54949 | 3.86% | 0.233% |
| 3 | 3.934 | 310 | 314 | 321 | rVB | 52446 | 67400 | 4.73% | 0.286% |
| 4 | 5.075 | 505 | 508 | 515 | rBV | 215344 | 243427 | 17.09% | 1.033% |
| 5 | 5.451 | 568 | 572 | 574 | rBV | 96511 | 89692 | 6.30% | 0.380% |
| 6 | 5.481 | 574 | 577 | 587 | rVB | 1276376 | 1211986 | 85.10% | 5.141% |
| 7 | 5.710 | 613 | 616 | 620 | rBV | 89181 | 84589 | 5.94% | 0.359% |
| 8 | 6.022 | 664 | 669 | 673 | rVB3 | 34448 | 43192 | 3.03% | 0.183% |
| 9 | 6.116 | 678 | 685 | 691 | rBV7 | 33894 | 66732 | 4.69% | 0.283% |
| 10 | 6.386 | 728 | 731 | 734 | rBV2 | 57012 | 56750 | 3.98% | 0.241% |
| 11 | 6.492 | 746 | 749 | 754 | rVV | 1280987 | 1205741 | 84.66% | 5.114% |
| 12 | 6.633 | 769 | 773 | 776 | rBV | 1562403 | 1274783 | 89.51% | 5.407% |
| 13 | 6.686 | 779 | 782 | 786 | rBV2 | 116885 | 113886 | 8.00% | 0.483% |
| 14 | 6.863 | 809 | 812 | 816 | rVV | 952674 | 790041 | 55.47% | 3.351% |
| 15 | 6.922 | 818 | 822 | 825 | rBV | 61593 | 61461 | 4.32% | 0.261% |
| 16 | 7.022 | 833 | 839 | 842 | rBV | 1159619 | 1048931 | 73.65% | 4.449% |
| 17 | 7.133 | 852 | 858 | 861 | rVB3 | 35175 | 43892 | 3.08% | 0.186% |
| 18 | 7.257 | 873 | 879 | 884 | rBV4 | 36099 | 61397 | 4.31% | 0.260% |
| 19 | 7.428 | 904 | 908 | 910 | rVV | 822563 | 744252 | 52.26% | 3.157% |
| 20 | 7.451 | 910 | 912 | 916 | rVB | 90711 | 72404 | 5.08% | 0.307% |
| 21 | 7.504 | 916 | 921 | 924 | rBV5 | 42177 | 49106 | 3.45% | 0.208% |
| 22 | 8.122 | 1022 | 1026 | 1027 | rBV | 87916 | 77068 | 5.41% | 0.327% |
| 23 | 8.145 | 1027 | 1030 | 1032 | rVV | 1209370 | 981512 | 68.91% | 4.163% |
| 24 | 8.169 | 1032 | 1034 | 1036 | rVV | 261860 | 196440 | 13.79% | 0.833% |
| 25 | 8.198 | 1036 | 1039 | 1041 | rVB | 70085 | 55491 | 3.90% | 0.235% |
| 26 | 8.433 | 1072 | 1079 | 1083 | rBV4 | 34271 | 45886 | 3.22% | 0.195% |
| 27 | 8.557 | 1097 | 1100 | 1103 | rVV | 119302 | 101785 | 7.15% | 0.432% |
| 28 | 8.727 | 1126 | 1129 | 1132 | rBV | 117607 | 83111 | 5.84% | 0.353% |
| 29 | 8.857 | 1148 | 1151 | 1154 | rBV | 319569 | 235343 | 16.52% | 0.998% |
| 30 | 8.957 | 1164 | 1168 | 1171 | rBV | 224272 | 171098 | 12.01% | 0.726% |
| 31 | 9.157 | 1200 | 1202 | 1204 | rVB | 66782 | 46138 | 3.24% | 0.196% |
| 32 | 9.216 | 1208 | 1212 | 1216 | rBV | 1635992 | 1424247 | 100.00% | 6.041% |
| 33 | 9.292 | 1222 | 1225 | 1228 | rBV | 134683 | 114026 | 8.01% | 0.484% |
| 34 | 9.316 | 1228 | 1229 | 1233 | rVV | 55329 | 44878 | 3.15% | 0.190% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.416 | 1243 | 1246 | 1250 | rVB | 37955 | 50389 | 3.54% | 0.214% |
| 36 | 9.486 | 1253 | 1258 | 1263 | rVB2 | 113287 | 133876 | 9.40% | 0.568% |
| 37 | 9.557 | 1267 | 1270 | 1272 | rBV | 154049 | 150399 | 10.56% | 0.638% |
| 38 | 9.586 | 1272 | 1275 | 1276 | rVV | 105679 | 86822 | 6.10% | 0.368% |
| 39 | 9.610 | 1276 | 1279 | 1286 | rVB | 327331 | 301034 | 21.14% | 1.277% |
| 40 | 9.674 | 1286 | 1290 | 1292 | rBV | 104330 | 88970 | 6.25% | 0.377% |
| 41 | 9.763 | 1302 | 1305 | 1307 | rVB | 96605 | 86235 | 6.05% | 0.366% |
| 42 | 9.822 | 1307 | 1315 | 1318 | rBV | 151135 | 127241 | 8.93% | 0.540% |
| 43 | 9.880 | 1321 | 1325 | 1326 | rVV | 71333 | 74790 | 5.25% | 0.317% |
| 44 | 9.898 | 1326 | 1328 | 1332 | rVV | 992896 | 942542 | 66.18% | 3.998% |
| 45 | 9.933 | 1332 | 1334 | 1337 | rVV3 | 52999 | 49470 | 3.47% | 0.210% |
| 46 | 10.004 | 1342 | 1346 | 1350 | rBV | 44090 | 55081 | 3.87% | 0.234% |
| 47 | 10.051 | 1350 | 1354 | 1357 | rBV4 | 40102 | 60503 | 4.25% | 0.257% |
| 48 | 10.104 | 1359 | 1363 | 1366 | rVV2 | 150726 | 151928 | 10.67% | 0.644% |
| 49 | 10.139 | 1366 | 1369 | 1373 | rVV2 | 89721 | 87782 | 6.16% | 0.372% |
| 50 | 10.216 | 1379 | 1382 | 1384 | rBV | 75139 | 68009 | 4.78% | 0.288% |
| 51 | 10.245 | 1384 | 1387 | 1389 | rVV | 60412 | 53758 | 3.77% | 0.228% |
| 52 | 10.321 | 1392 | 1400 | 1403 | rBV2 | 202332 | 241385 | 16.95% | 1.024% |
| 53 | 10.439 | 1417 | 1420 | 1423 | rBV2 | 90330 | 81235 | 5.70% | 0.345% |
| 54 | 10.539 | 1433 | 1437 | 1439 | rBV | 58987 | 62771 | 4.41% | 0.266% |
| 55 | 10.604 | 1443 | 1448 | 1452 | rBV2 | 70882 | 94540 | 6.64% | 0.401% |
| 56 | 10.686 | 1459 | 1462 | 1467 | rVV | 702179 | 609026 | 42.76% | 2.583% |
| 57 | 10.804 | 1477 | 1482 | 1489 | rVB3 | 226620 | 365631 | 25.67% | 1.551% |
| 58 | 10.992 | 1508 | 1514 | 1517 | rBV5 | 31443 | 61464 | 4.32% | 0.261% |
| 59 | 11.121 | 1532 | 1536 | 1539 | rBV3 | 54984 | 82538 | 5.80% | 0.350% |
| 60 | 11.192 | 1545 | 1548 | 1551 | rBV2 | 95783 | 84972 | 5.97% | 0.360% |
| 61 | 11.239 | 1552 | 1556 | 1559 | rVV2 | 166818 | 168302 | 11.82% | 0.714% |
| 62 | 11.268 | 1559 | 1561 | 1569 | rVB3 | 59594 | 99090 | 6.96% | 0.420% |
| 63 | 11.386 | 1577 | 1581 | 1583 | rBV | 925561 | 774742 | 54.40% | 3.286% |
| 64 | 11.410 | 1583 | 1585 | 1588 | rVV | 343148 | 280341 | 19.68% | 1.189% |
| 65 | 11.463 | 1591 | 1594 | 1596 | rVV | 105318 | 84827 | 5.96% | 0.360% |
| 66 | 11.598 | 1614 | 1617 | 1619 | rVV | 57374 | 64117 | 4.50% | 0.272% |
| 67 | 11.616 | 1619 | 1620 | 1624 | rVV2 | 50993 | 56084 | 3.94% | 0.238% |
| 68 | 11.668 | 1626 | 1629 | 1633 | rVV2 | 121194 | 115969 | 8.14% | 0.492% |
| 69 | 11.715 | 1635 | 1637 | 1642 | rVB3 | 47175 | 52183 | 3.66% | 0.221% |
| 70 | 11.886 | 1664 | 1666 | 1668 | rBV | 86412 | 79044 | 5.55% | 0.335% |
| 71 | 11.915 | 1668 | 1671 | 1674 | rVB | 164761 | 151091 | 10.61% | 0.641% |

LSC Area Percent Report

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Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.998 | 1682 | 1685 | 1687 | rBV2 | 84733 | 86398 | 6.07% | 0.366% |
| 73 | 12.021 | 1687 | 1689 | 1692 | rVB | 74331 | 58023 | 4.07% | 0.246% |
| 74 | 12.074 | 1695 | 1698 | 1700 | rBV | 116564 | 92431 | 6.49% | 0.392% |
| 75 | 12.180 | 1713 | 1716 | 1719 | rBV | 89606 | 83851 | 5.89% | 0.356% |
| 76 | 12.210 | 1719 | 1721 | 1727 | rVB2 | 67912 | 69741 | 4.90% | 0.296% |
| 77 | 12.363 | 1744 | 1747 | 1749 | rVV2 | 60752 | 58557 | 4.11% | 0.248% |
| 78 | 12.439 | 1757 | 1760 | 1762 | rVV | 95817 | 111076 | 7.80% | 0.471% |
| 79 | 12.463 | 1762 | 1764 | 1768 | rVV2 | 125868 | 136356 | 9.57% | 0.578% |
| 80 | 12.527 | 1772 | 1775 | 1778 | rVV | 73918 | 82134 | 5.77% | 0.348% |
| 81 | 12.598 | 1784 | 1787 | 1792 | rBV | 481628 | 418519 | 29.39% | 1.775% |
| 82 | 12.645 | 1792 | 1795 | 1797 | rBV | 48396 | 51302 | 3.60% | 0.218% |
| 83 | 12.833 | 1821 | 1827 | 1828 | rBV2 | 437734 | 489493 | 34.37% | 2.076% |
| 84 | 12.851 | 1828 | 1830 | 1833 | rVB | 428866 | 373346 | 26.21% | 1.584% |
| 85 | 12.968 | 1846 | 1850 | 1853 | rBV | 1066459 | 859527 | 60.35% | 3.646% |
| 86 | 13.039 | 1860 | 1862 | 1870 | rVB7 | 50769 | 90123 | 6.33% | 0.382% |
| 87 | 13.127 | 1875 | 1877 | 1879 | rBV2 | 52124 | 57828 | 4.06% | 0.245% |
| 88 | 13.186 | 1885 | 1887 | 1891 | rBV2 | 63018 | 68128 | 4.78% | 0.289% |
| 89 | 13.445 | 1928 | 1931 | 1939 | rVB | 244519 | 236778 | 16.62% | 1.004% |
| 90 | 13.533 | 1943 | 1946 | 1949 | rBV3 | 64083 | 68378 | 4.80% | 0.290% |
| 91 | 13.662 | 1966 | 1968 | 1972 | rVB | 88007 | 86342 | 6.06% | 0.366% |
| 92 | 13.774 | 1985 | 1987 | 1990 | rVB2 | 58651 | 48524 | 3.41% | 0.206% |
| 93 | 13.857 | 1999 | 2001 | 2008 | rVB2 | 115483 | 153573 | 10.78% | 0.651% |
| 94 | 13.998 | 2022 | 2025 | 2026 | rBV | 63602 | 63308 | 4.45% | 0.269% |
| 95 | 14.027 | 2026 | 2030 | 2033 | rVV2 | 793167 | 985508 | 69.20% | 4.180% |
| 96 | 14.051 | 2033 | 2034 | 2042 | rVB | 252415 | 238865 | 16.77% | 1.013% |
| 97 | 15.074 | 2205 | 2208 | 2214 | rBV | 243502 | 365714 | 25.68% | 1.551% |
| 98 | 15.380 | 2257 | 2260 | 2266 | rVB | 168831 | 205571 | 14.43% | 0.872% |
| 99 | 15.445 | 2268 | 2271 | 2276 | rVB | 146977 | 177421 | 12.46% | 0.753% |
| 100 | 15.509 | 2278 | 2282 | 2285 | rBV | 432132 | 528413 | 37.10% | 2.241% |

Sum of corrected areas: 23575386

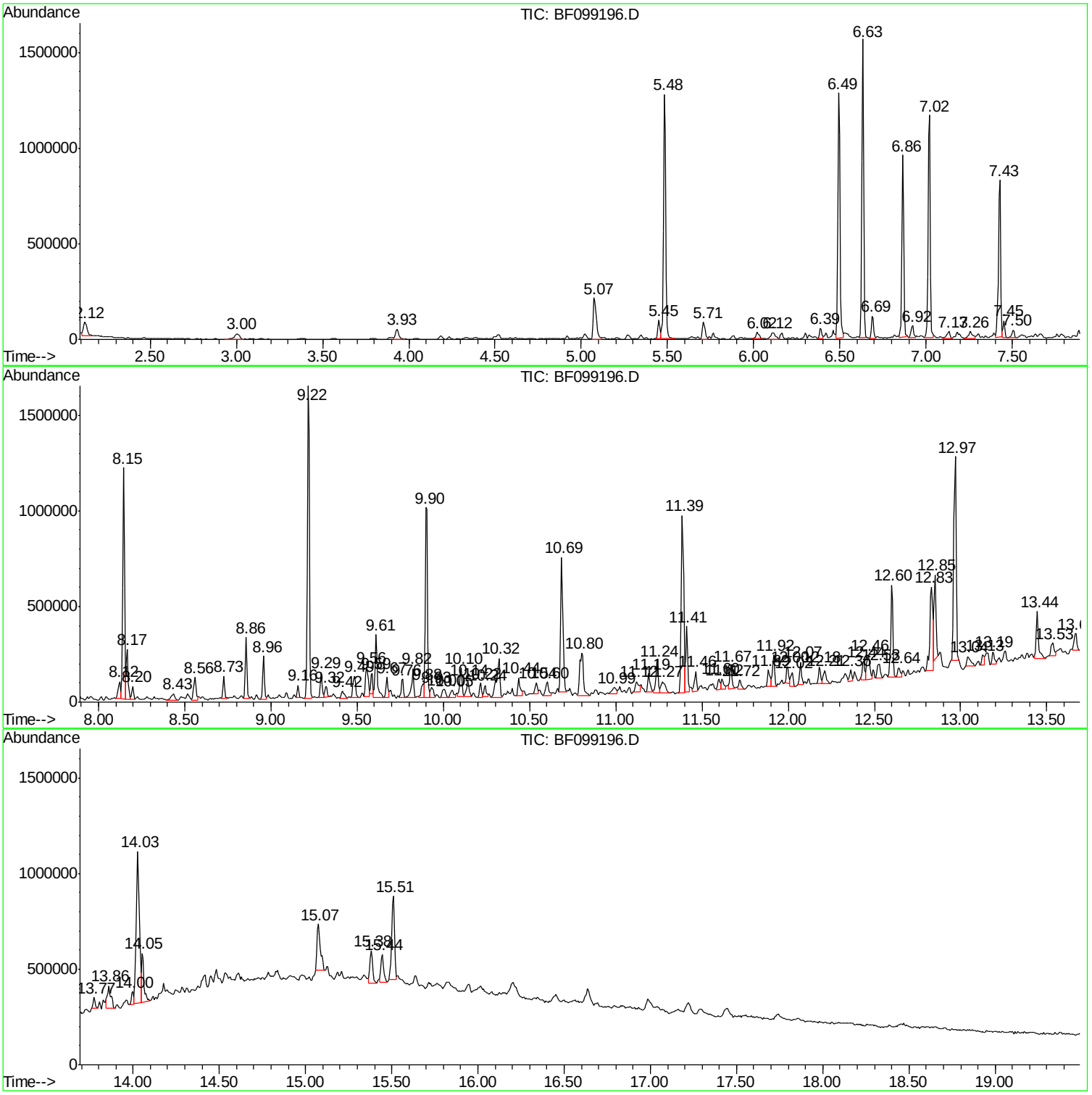
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

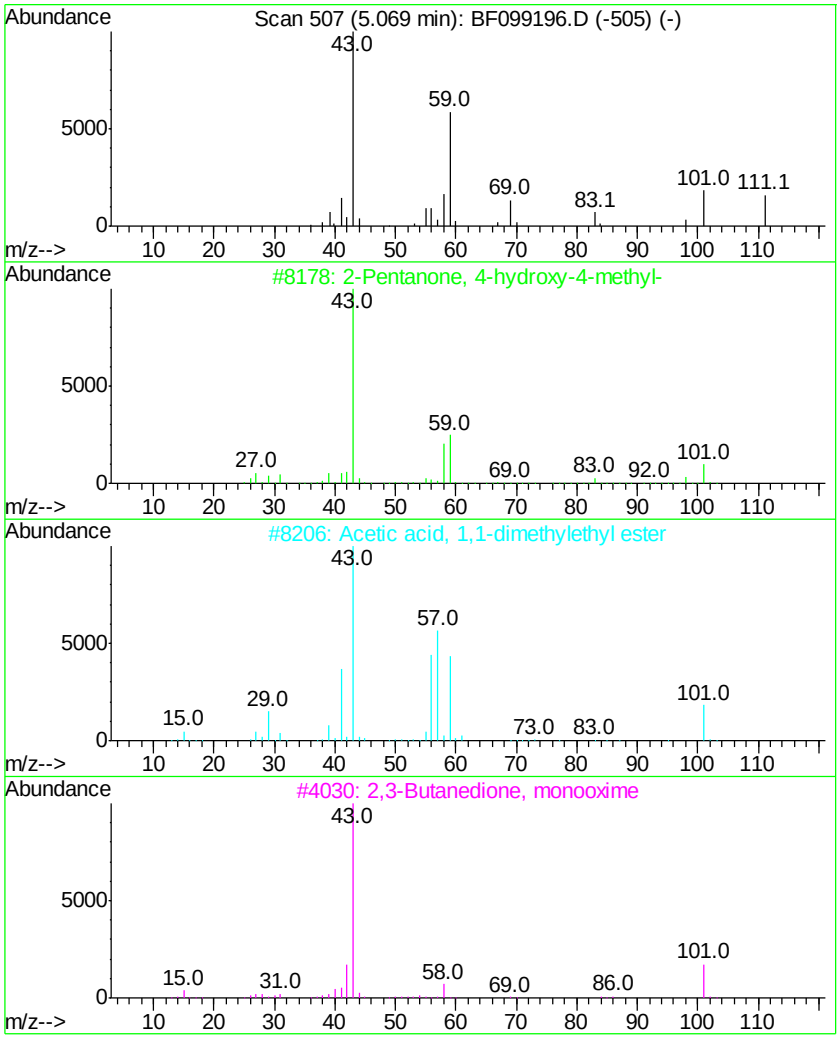
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

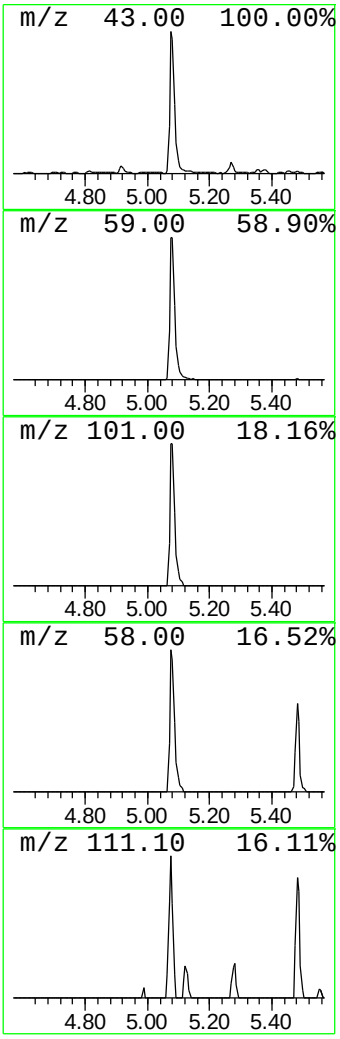
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.07 | 6.16 ng | 243427 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 53 |
| 2 | Acetic acid, 1,1-dimethylethyl e... | 116 | C6H12O2 | 000540-88-5 | 38 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 25 |
| 4 | 3-Hexanol, 4,4-dimethyl- | 130 | C8H18O | 019550-09-5 | 25 |
| 5 | n-Propyl t-butyl ether | 116 | C7H16O | 1000334-81-9 | 25 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

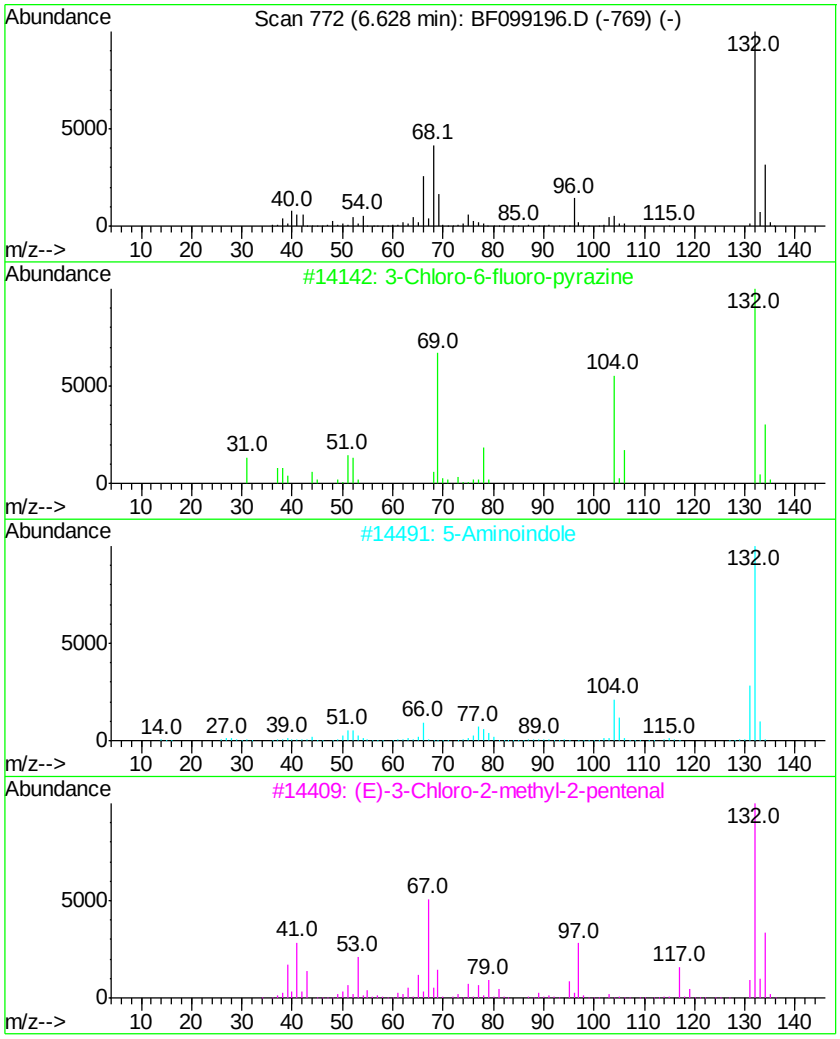
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

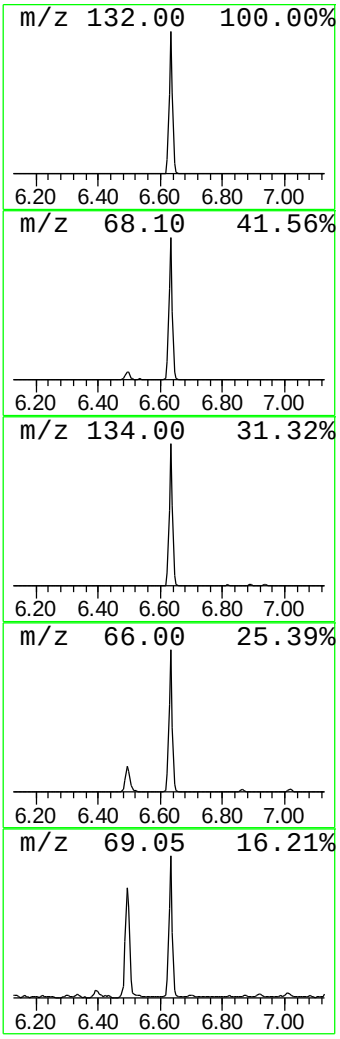
**********

Peak Number 2 unknown6.63 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.63 | 32.27 ng | 1274780 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 2 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 3 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 12 |
| 4 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |
| 5 | Xenon | 132 | Xe | 007440-63-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

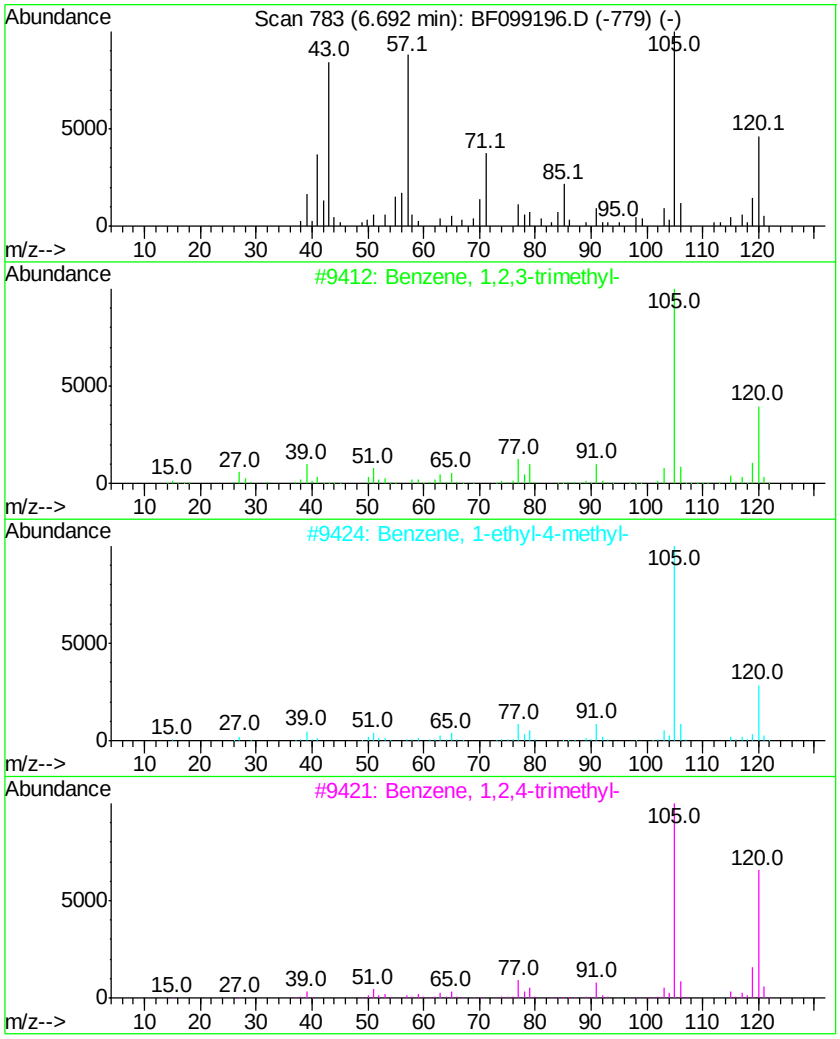
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

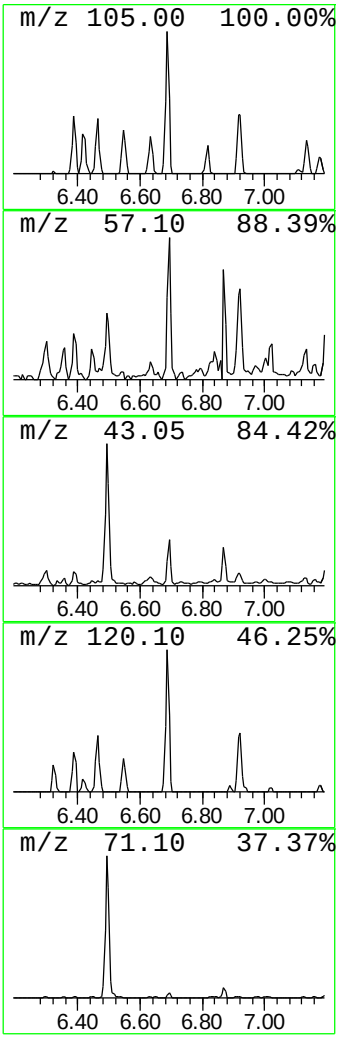
**********

Peak Number 3 Benzene, 1,2,3-trimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.69 | 2.88 ng | 113886 | 1,4-Dichlorobenzene-d4 | 6.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
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Acq On : 7 Oct 2017 16:07
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Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

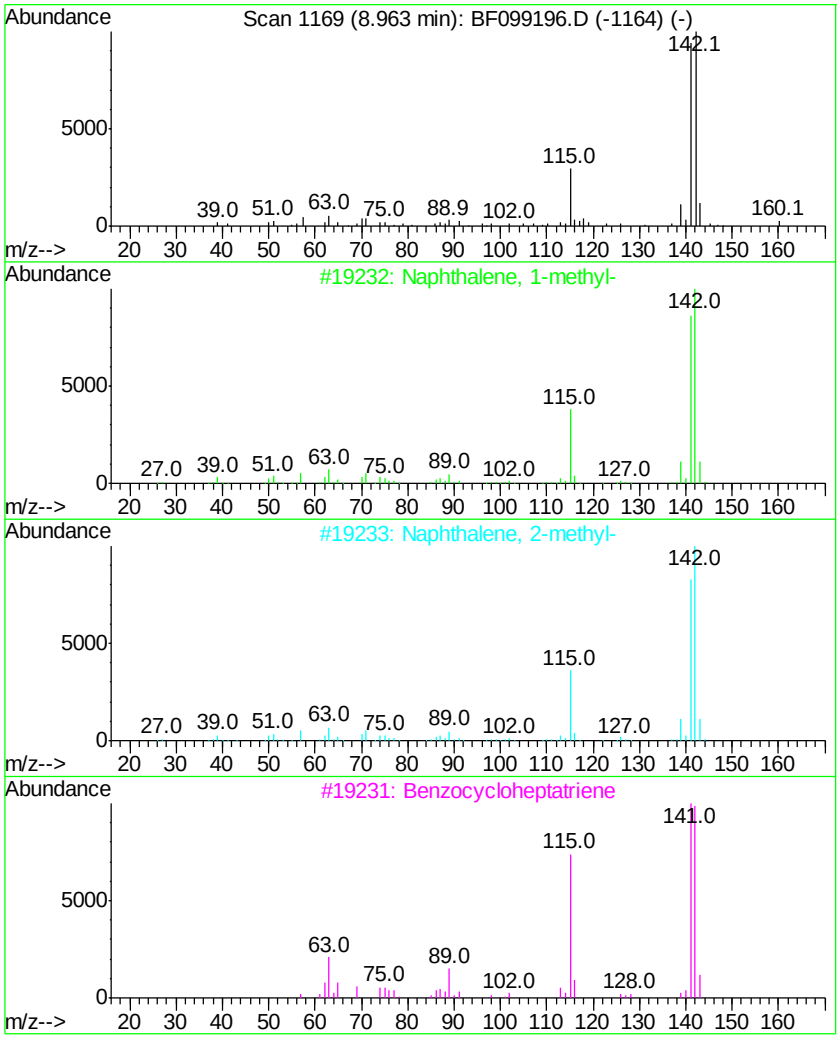
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

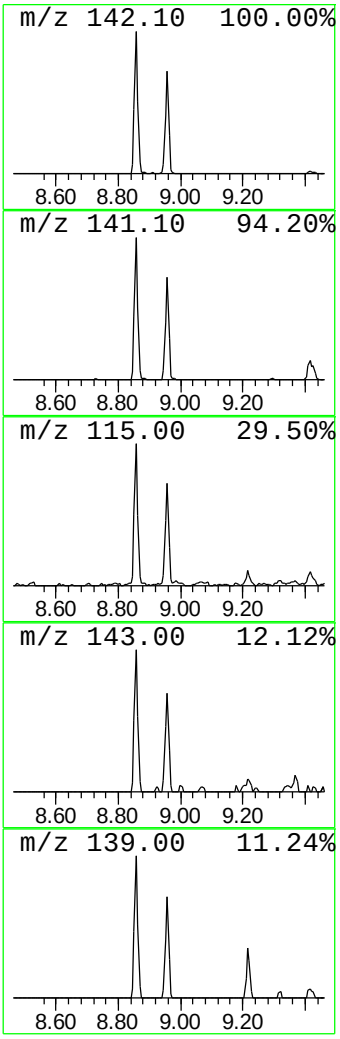
**********

Peak Number 5 Naphthalene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.96 | 3.49 ng | 171098 | Naphthalene-d8 | 8.15 |

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



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

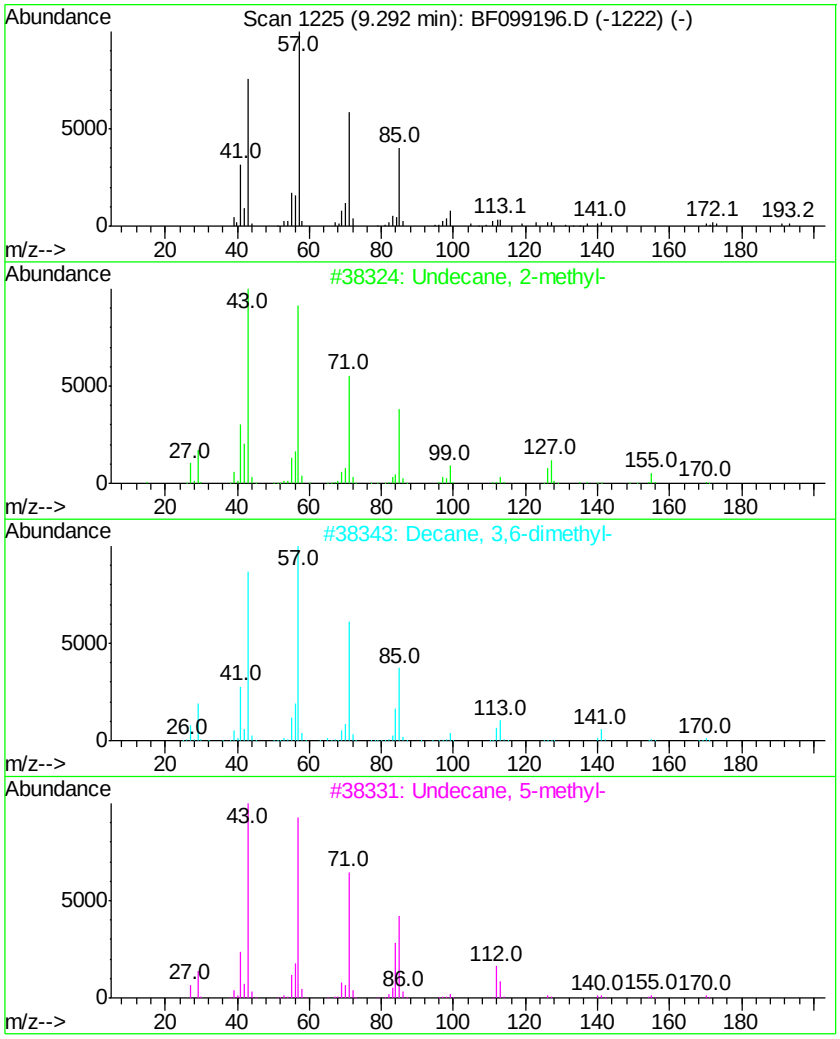
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

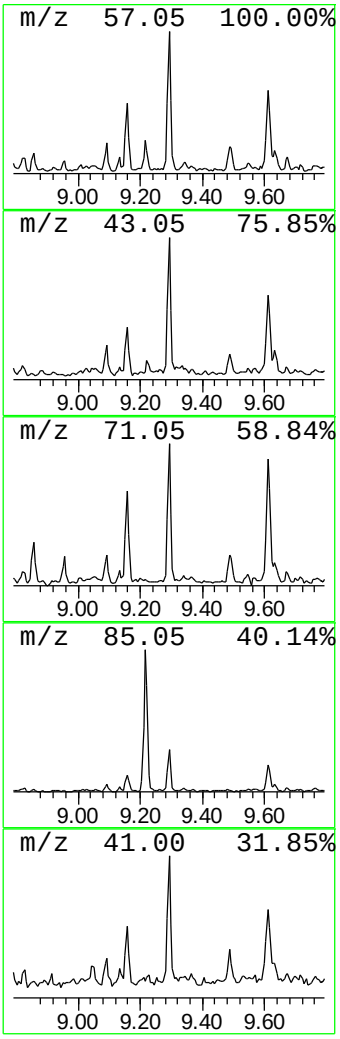
**********

Peak Number 6 Undecane, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.29 | 2.42 ng | 114026 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 87 |
| 2 | Decane, 3,6-dimethyl- | 170 | C12H26 | 017312-53-7 | 87 |
| 3 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 83 |
| 4 | Decane, 2,3,6-trimethyl- | 184 | C13H28 | 062238-12-4 | 72 |
| 5 | Dodecane | 170 | C12H26 | 000112-40-3 | 72 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

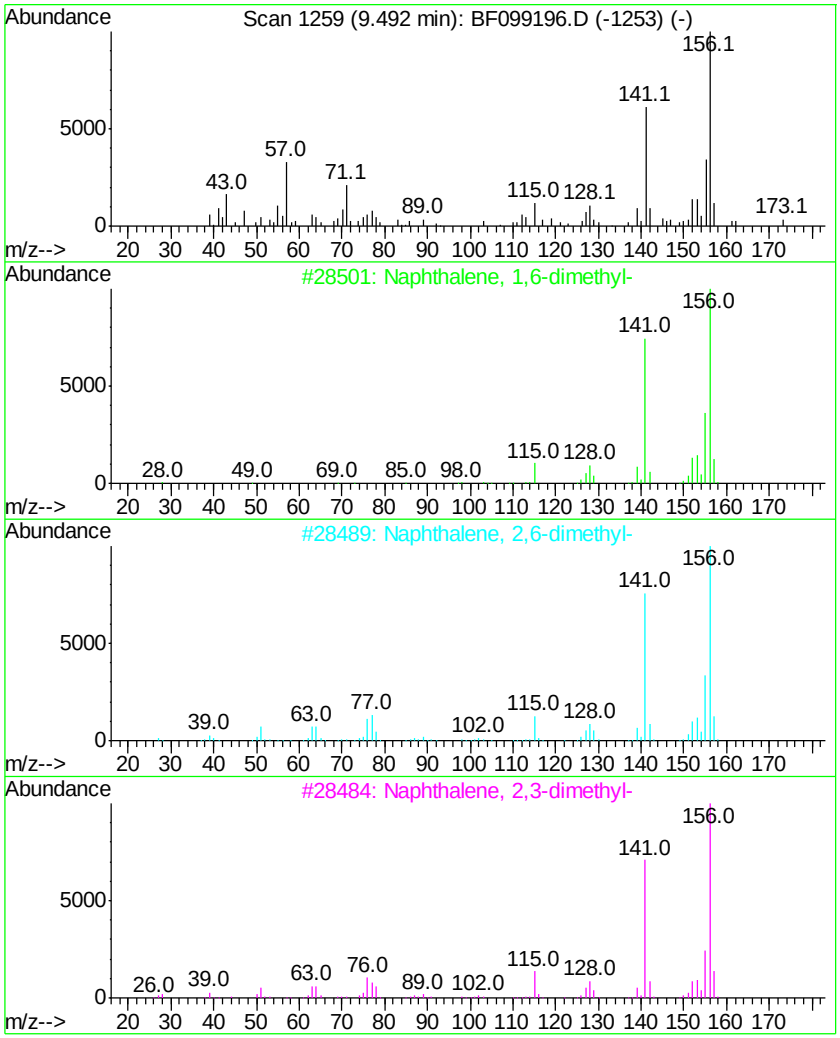
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

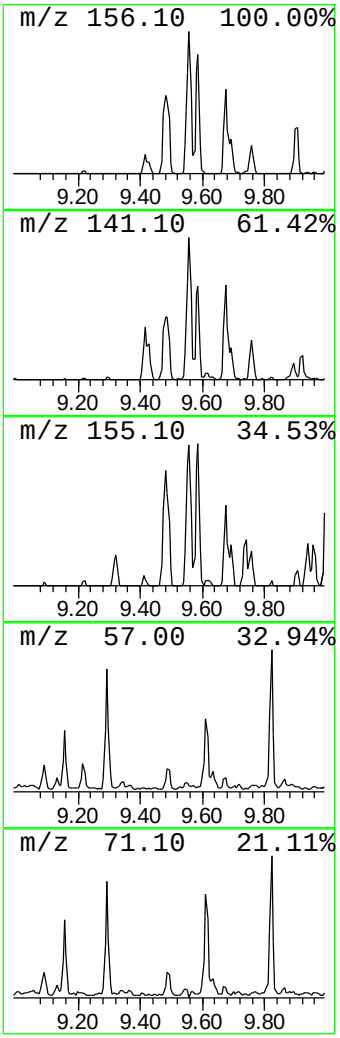
**********

Peak Number 7 Naphthalene, 1,6-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.49 | 2.84 ng | 133876 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 96 |
| 4 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

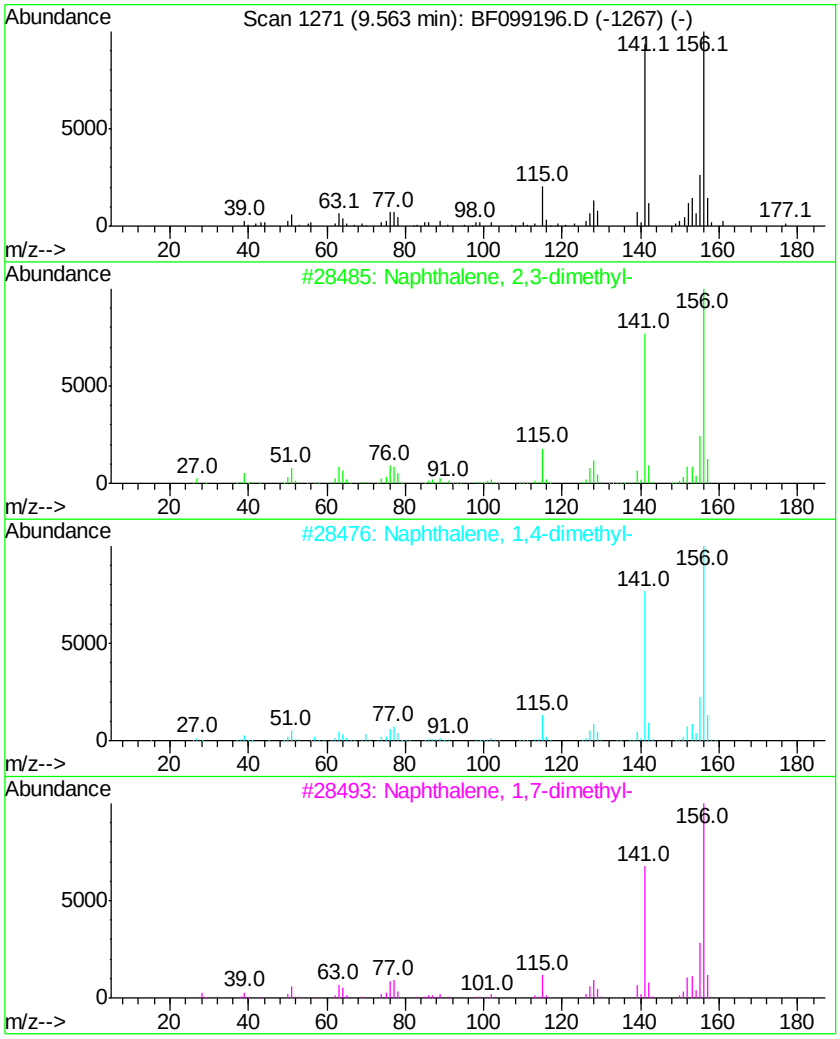
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

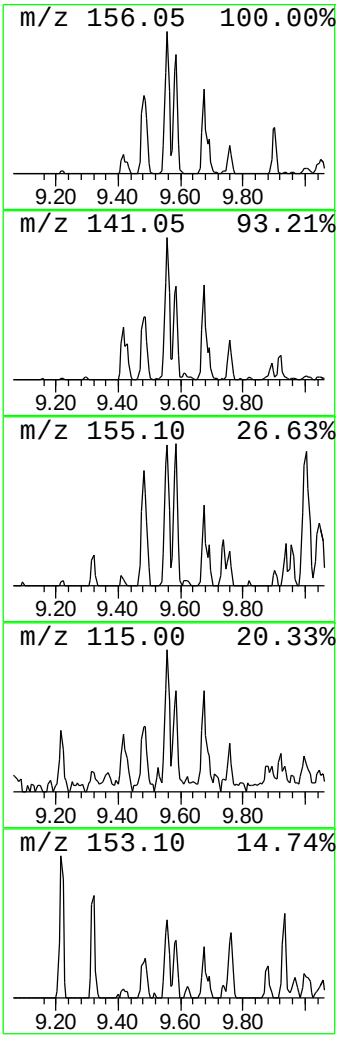
**********

Peak Number 8 Naphthalene, 2,3-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.56 | 3.19 ng | 150399 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 2 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 97 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 4 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 96 |
| 5 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 96 |



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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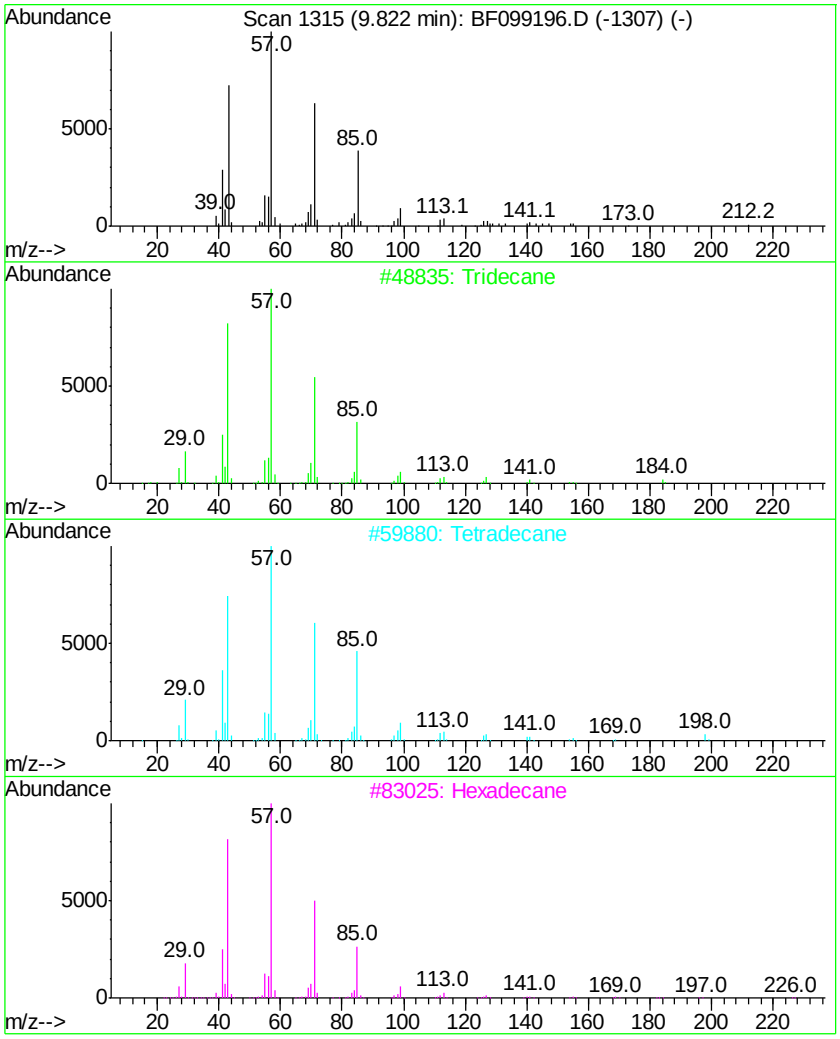
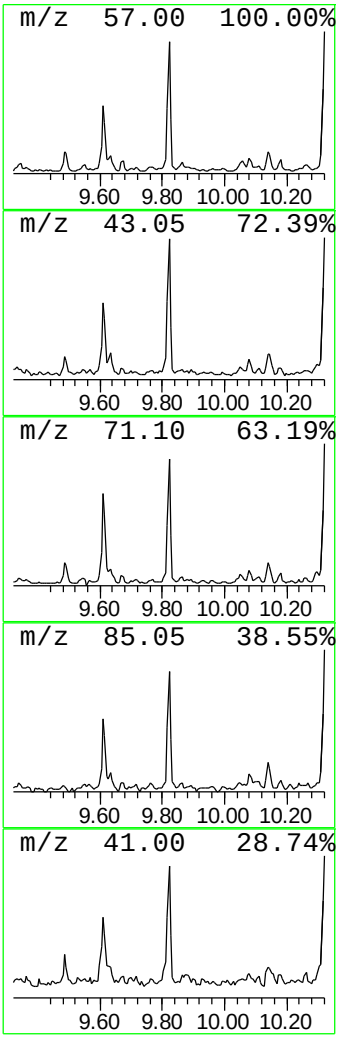
Peak Number 9 Tridecane Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.82 | 2.70 ng | 127241 | Acenaphthene-d10 | 9.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 90 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 4 | Undecane, 2,10-dimethyl- | 184 | C13H28 | 017301-27-8 | 72 |
| 5 | Octadecane, 1-chloro- | 288 | C18H37Cl | 003386-33-2 | 64 |



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

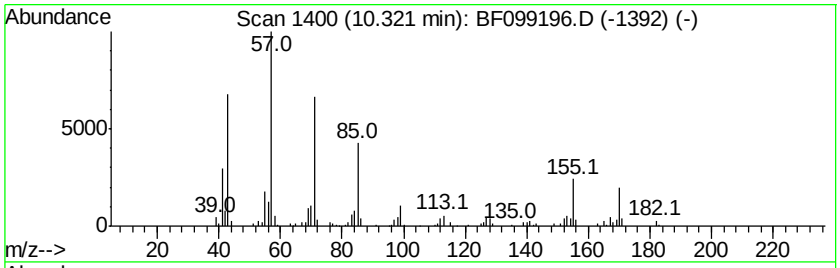
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

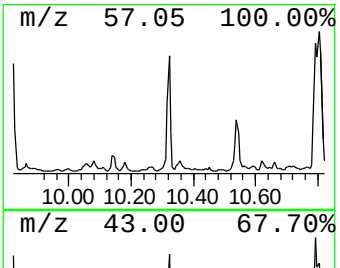
**********

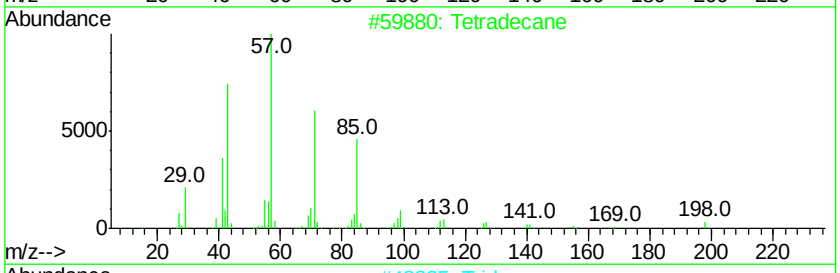
Peak Number 10 Tetradecane Concentration Rank 6

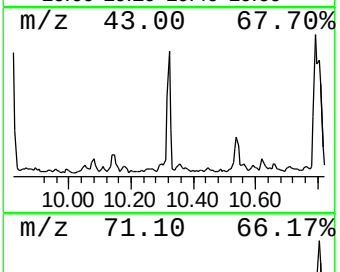
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.32 | 5.12 ng | 241385 | Acenaphthene-d10 | 9.90 |

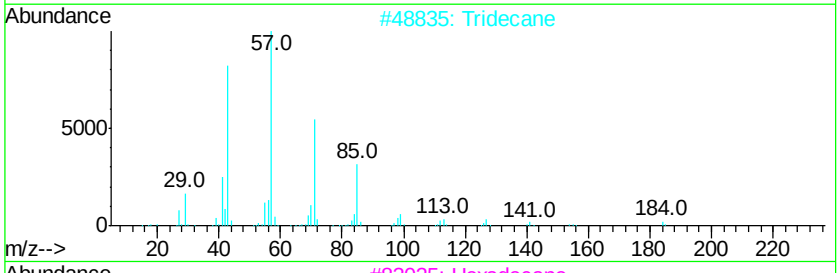
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 58 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 52 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 52 |
| 4 | Sulfurous acid, 2-propyl tetrade... | 320 | C17H36O3S | 1000309-12-5 | 52 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 52 |

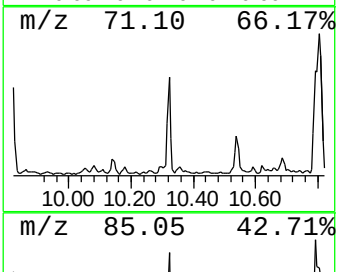


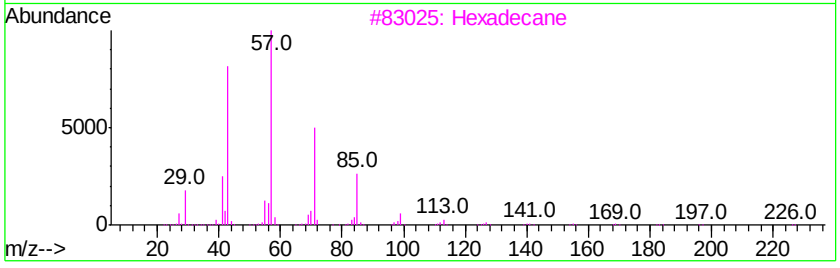



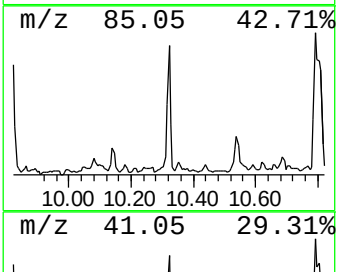



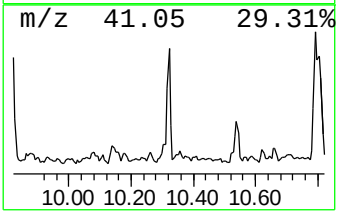



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

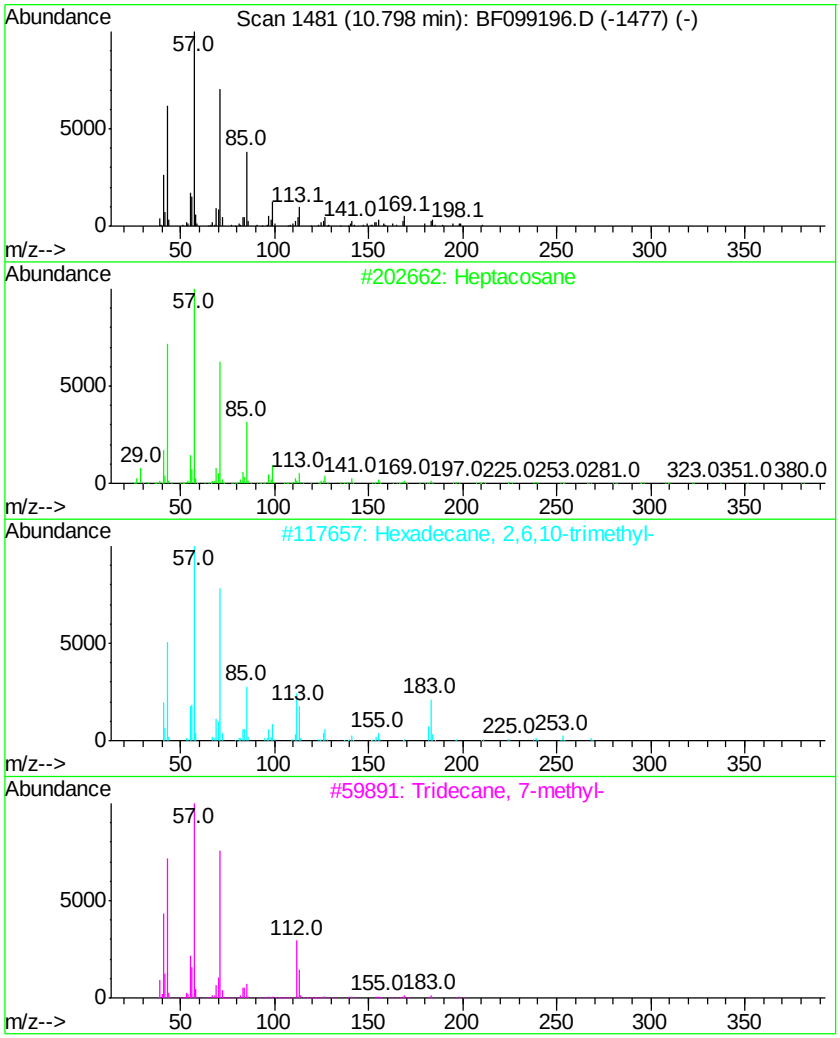
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

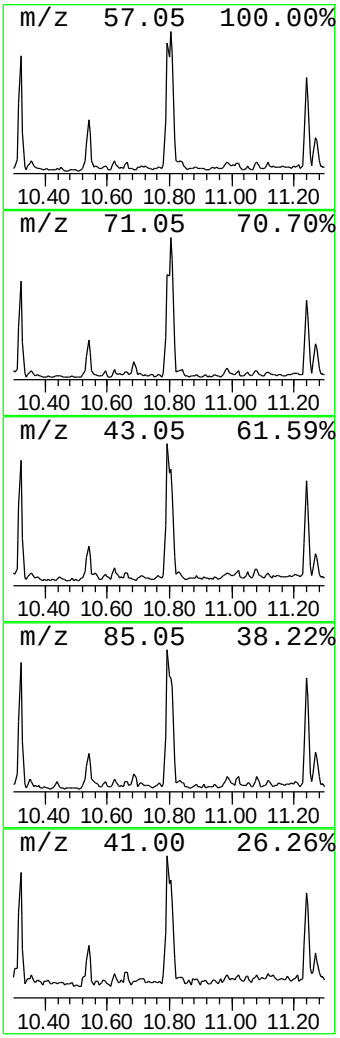
**********

Peak Number 11 Heptacosane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 9.44 ng | 365631 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptacosane | 380 | C27H56 | 000593-49-7 | 80 |
| 2 | Hexadecane, 2,6,10-trimethyl- | 268 | C19H40 | 055000-52-7 | 80 |
| 3 | Tridecane, 7-methyl- | 198 | C14H30 | 026730-14-3 | 76 |
| 4 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 72 |
| 5 | Pentadecane, 2,6,10,14-tetramethyl- | 268 | C19H40 | 001921-70-6 | 72 |



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Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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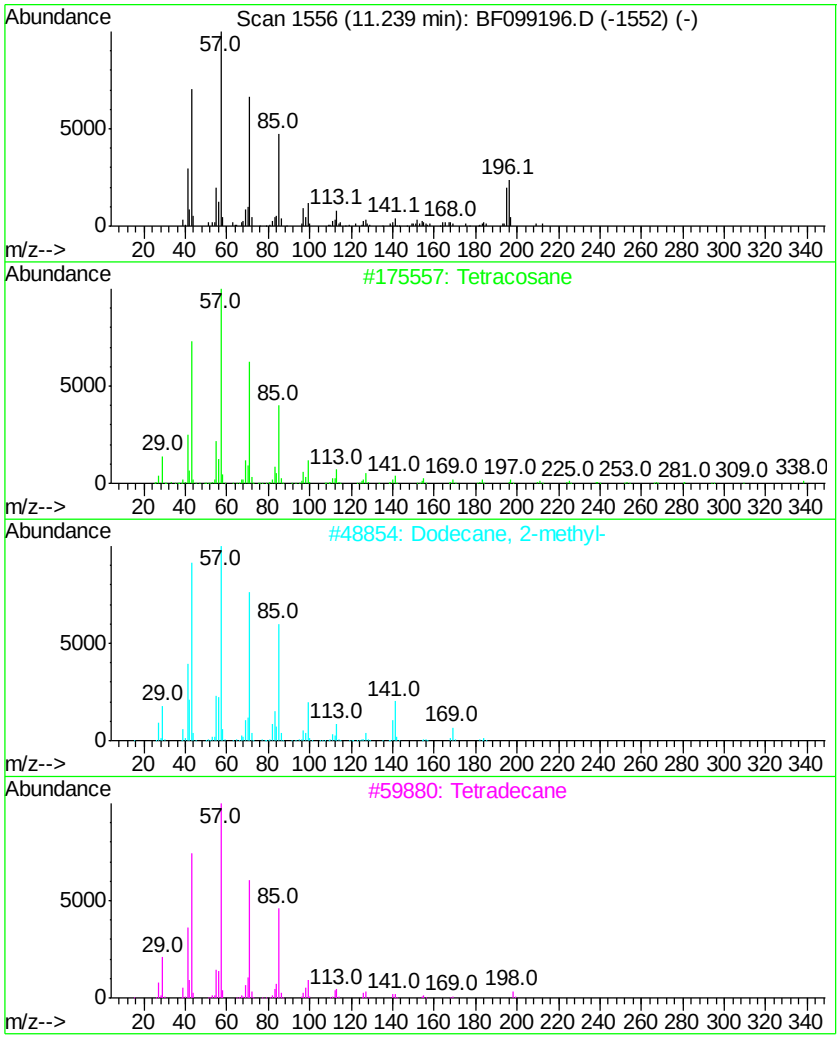
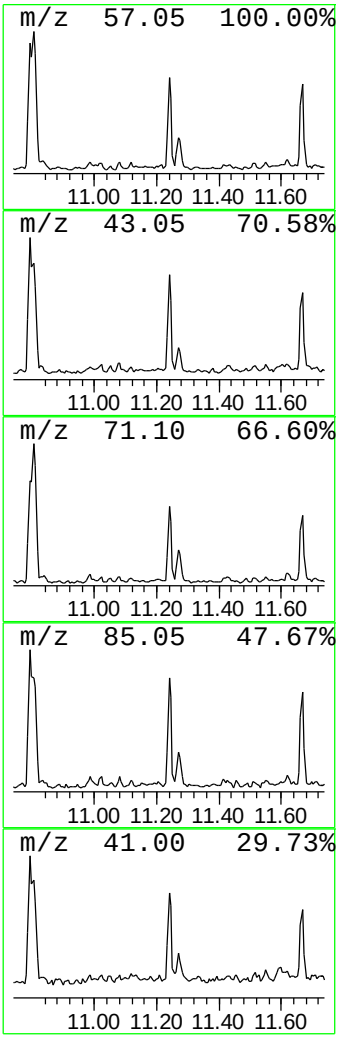
Peak Number 12 Tetracosane Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.24 | 4.34 ng | 168302 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetracosane | 338 | C24H50 | 000646-31-1 | 58 |
| 2 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 53 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 52 |
| 4 | Dodecane, 1-iodo- | 296 | C12H25I | 004292-19-7 | 52 |
| 5 | Decane, 3-bromo- | 220 | C10H21Br | 030571-71-2 | 49 |



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Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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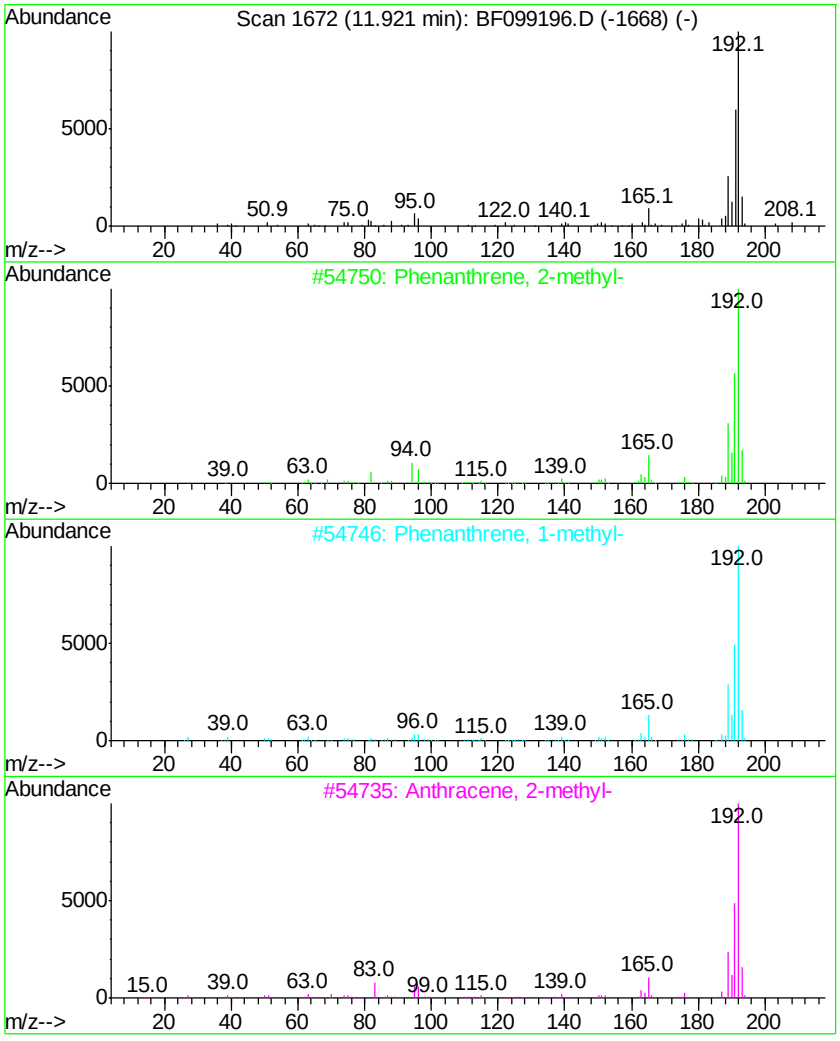
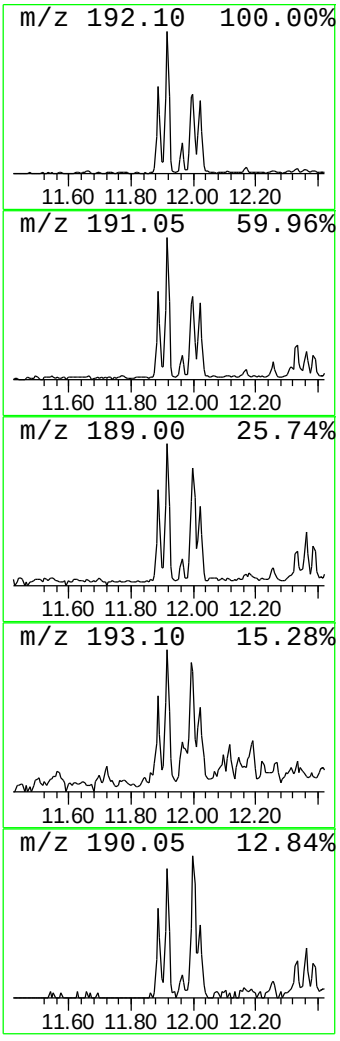
Peak Number 15 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 3.90 ng | 151091 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 98 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 97 |
| 3 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 96 |
| 5 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |



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Acq On : 7 Oct 2017 16:07
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Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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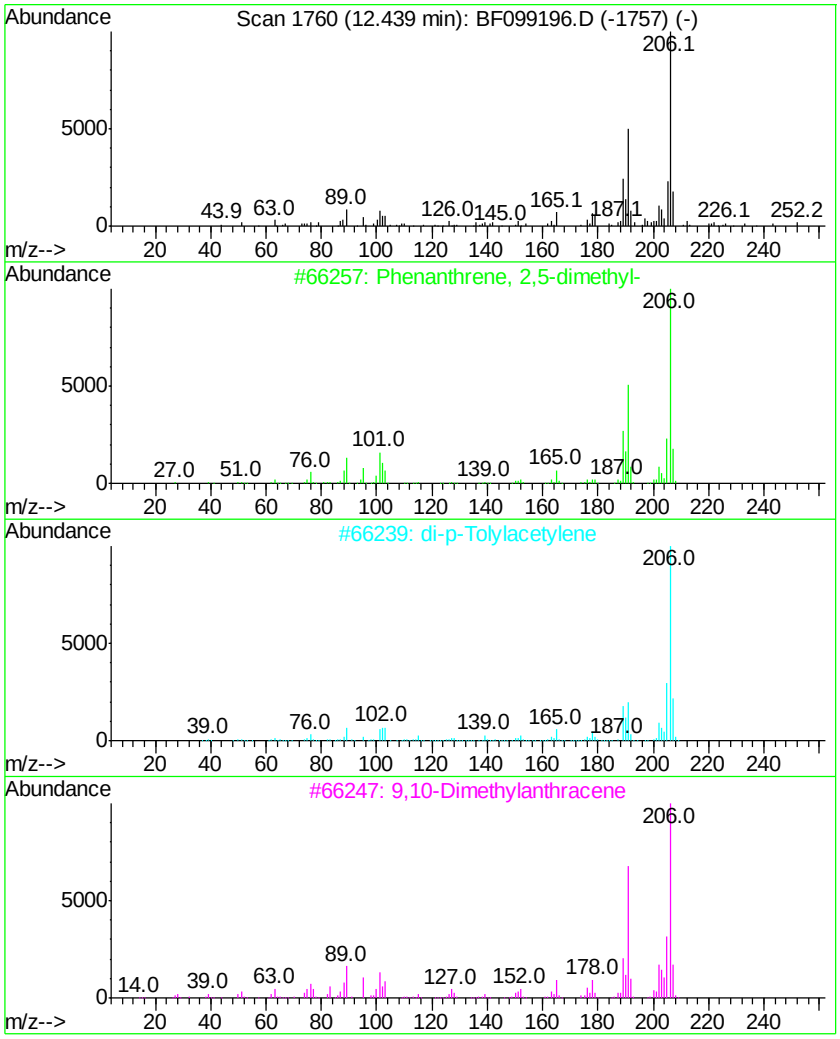
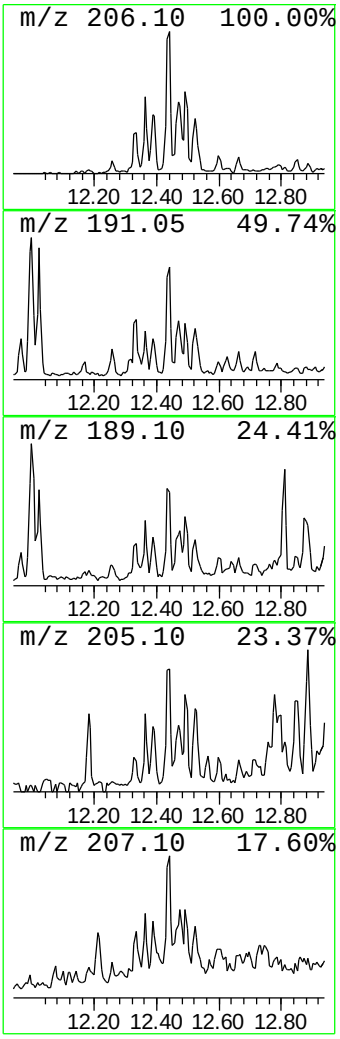
Peak Number 16 Phenanthrene, 2,5-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.44 | 2.87 ng | 111076 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 96 |
| 2 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 92 |
| 3 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 4 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 90 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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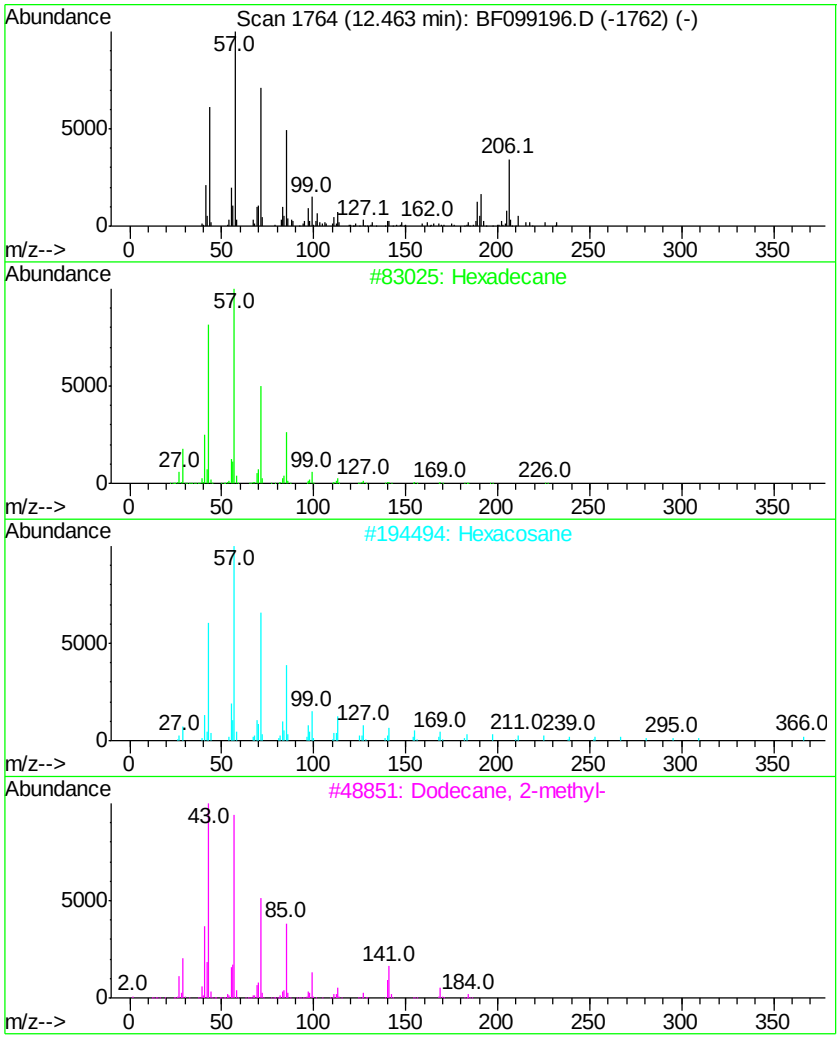
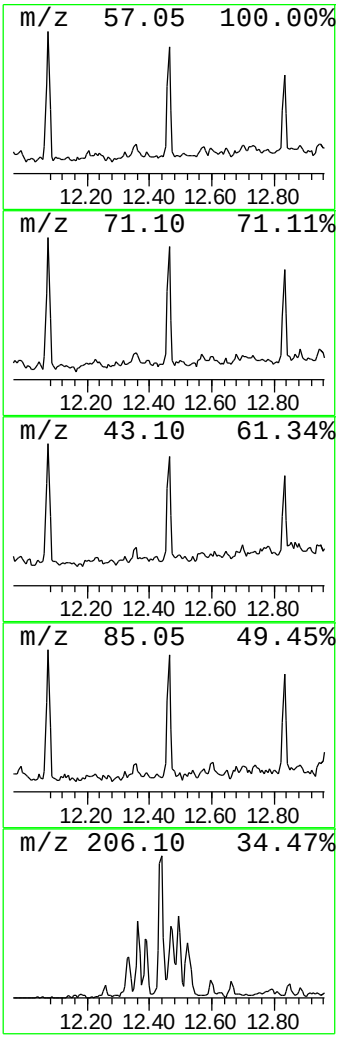
Peak Number 17 Hexadecane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.46 | 3.52 ng | 136356 | Phenanthrene-d10 | 11.39 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 53 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 52 |
| 4 | Octacosane | 394 | C28H58 | 000630-02-4 | 49 |
| 5 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 47 |



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Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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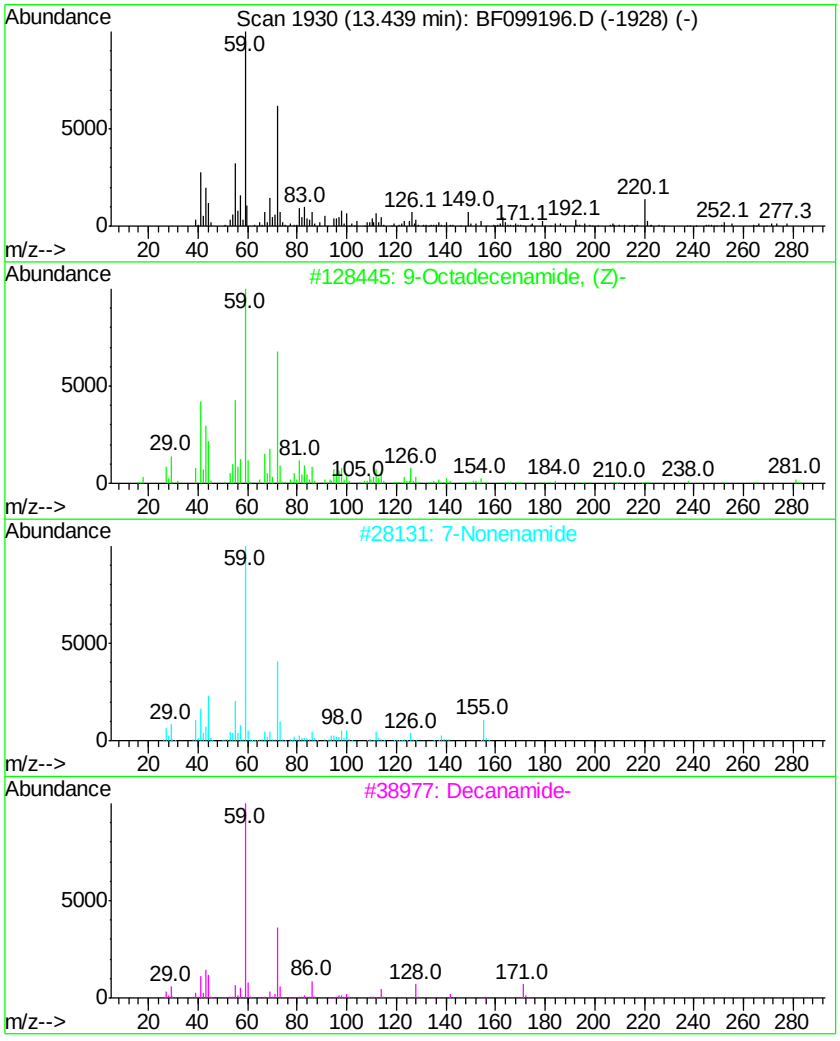
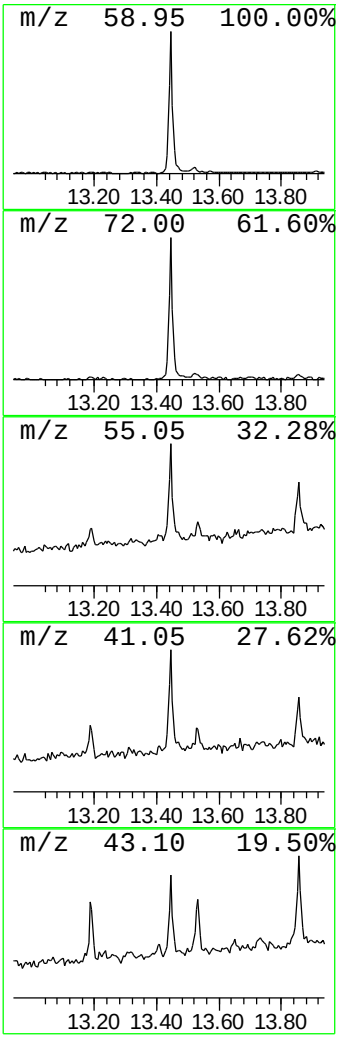
Peak Number 18 9-Octadecenamide, (Z)- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.44 | 4.81 ng | 236778 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenamide, (Z)- | 281 | C18H35NO | 000301-02-0 | 93 |
| 2 | 7-Nonenamide | 155 | C9H17NO | 090949-53-4 | 72 |
| 3 | Decanamide- | 171 | C10H21NO | 002319-29-1 | 72 |
| 4 | Pentadecanamide, 15-bromo- | 319 | C15H30BrNO | 1000163-86-1 | 53 |
| 5 | Nonanamide | 157 | C9H19NO | 001120-07-6 | 50 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

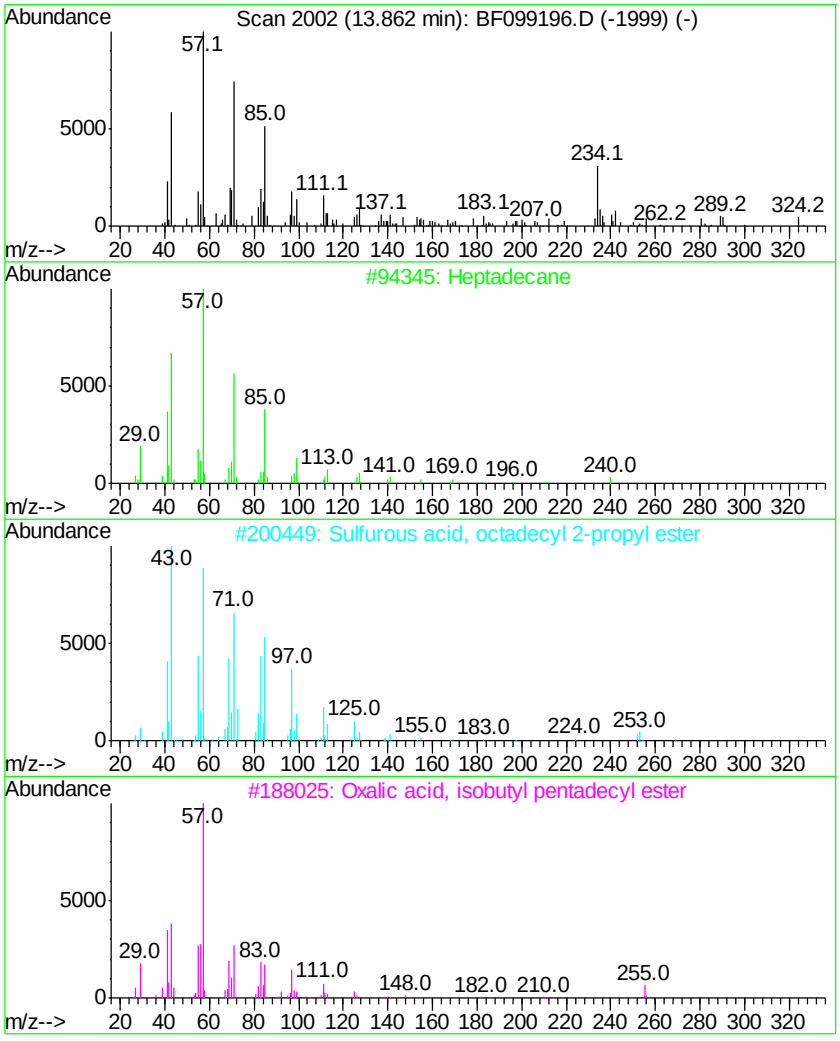
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

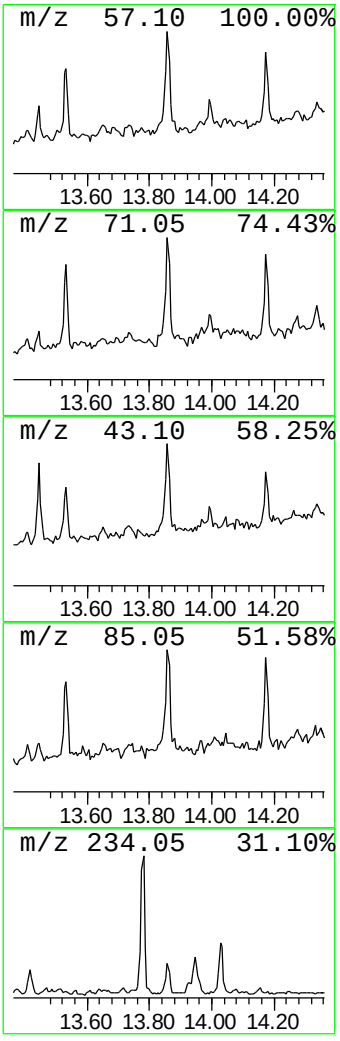
**********

Peak Number 19 Heptadecane Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 3.12 ng | 153573 | Chrysene-d12 | 14.03 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptadecane | 240 | C17H36 | 000629-78-7 | 90 |
| 2 | Sulfurous acid, octadecyl 2-prop... | 376 | C21H44O3S | 1000309-12-7 | 68 |
| 3 | Oxalic acid, isobutyl pentadecyl... | 356 | C21H40O4 | 1000309-38-0 | 64 |
| 4 | Ethanol, 2-(octadecyloxy)- | 314 | C20H42O2 | 002136-72-3 | 62 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 55 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF100717\
Data File : BF099196.D
Acq On : 7 Oct 2017 16:07
Operator : SJ/JU
Sample : I5586-19 2X
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** G56A-3-6

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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... | 5.07 | 6.2 | ng | 243427 | 1 | 6.86 | 790041 | 20.0 |
| unknown6.63 | 6.63 | 32.3 | ng | 1274780 | 1 | 6.86 | 790041 | 20.0 |
| Benzene, 1,2,3-tr... | 6.69 | 2.9 | ng | 113886 | 1 | 6.86 | 790041 | 20.0 |
| Naphthalene, 1-me... | 8.96 | 3.5 | ng | 171098 | 2 | 8.15 | 981512 | 20.0 |
| Undecane, 2-methyl- | 9.29 | 2.4 | ng | 114026 | 3 | 9.90 | 942542 | 20.0 |
| Naphthalene, 1,6-... | 9.49 | 2.8 | ng | 133876 | 3 | 9.90 | 942542 | 20.0 |
| Naphthalene, 2,3-... | 9.56 | 3.2 | ng | 150399 | 3 | 9.90 | 942542 | 20.0 |
| Tridecane | 9.82 | 2.7 | ng | 127241 | 3 | 9.90 | 942542 | 20.0 |
| Tetradecane | 10.32 | 5.1 | ng | 241385 | 3 | 9.90 | 942542 | 20.0 |
| Heptacosane | 10.80 | 9.4 | ng | 365631 | 4 | 11.39 | 774742 | 20.0 |
| Tetracosane | 11.24 | 4.3 | ng | 168302 | 4 | 11.39 | 774742 | 20.0 |
| Phenanthrene, 2-m... | 11.92 | 3.9 | ng | 151091 | 4 | 11.39 | 774742 | 20.0 |
| Phenanthrene, 2,5... | 12.44 | 2.9 | ng | 111076 | 4 | 11.39 | 774742 | 20.0 |
| Hexadecane | 12.46 | 3.5 | ng | 136356 | 4 | 11.39 | 774742 | 20.0 |
| 9-Octadecenamide,... | 13.44 | 4.8 | ng | 236778 | 5 | 14.03 | 985508 | 20.0 |
| Heptadecane | 13.86 | 3.1 | ng | 153573 | 5 | 14.03 | 985508 | 20.0 |