LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

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-BF072517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 4.616 | 460 | 464 | 477 | rBV | 336125 | 445635 | 25.16% | 1.825% |
| 2 | 5.081 | 539 | 543 | 566 | rBV | 1538934 | 1680887 | 94.89% | 6.884% |
| 3 | 6.145 | 720 | 724 | 739 | rBV | 1762797 | 1771333 | 100.00% | 7.255% |
| 4 | 6.257 | 739 | 743 | 751 | rVB | 1831239 | 1625129 | 91.75% | 6.656% |
| 5 | 6.487 | 778 | 782 | 787 | rBV | 869328 | 801910 | 45.27% | 3.284% |
| 6 | 6.528 | 787 | 789 | 800 | rVB7 | 11050 | 23538 | 1.33% | 0.096% |
| 7 | 6.640 | 804 | 808 | 816 | rBV | 1136818 | 1009218 | 56.98% | 4.133% |
| 8 | 7.051 | 874 | 878 | 886 | rBV | 1083592 | 956758 | 54.01% | 3.918% |
| 9 | 7.192 | 898 | 902 | 910 | rVB | 34036 | 38947 | 2.20% | 0.160% |
| 10 | 7.769 | 996 | 1000 | 1008 | rBV | 1274029 | 1126865 | 63.62% | 4.615% |
| 11 | 8.845 | 1179 | 1183 | 1186 | rBV | 1589025 | 1348331 | 76.12% | 5.522% |
| 12 | 9.245 | 1248 | 1251 | 1257 | rVB | 276421 | 220900 | 12.47% | 0.905% |
| 13 | 9.451 | 1280 | 1286 | 1288 | rBV3 | 12949 | 23706 | 1.34% | 0.097% |
| 14 | 9.516 | 1292 | 1297 | 1300 | rVV | 1057984 | 1020142 | 57.59% | 4.178% |
| 15 | 9.545 | 1300 | 1302 | 1307 | rVB | 67517 | 59933 | 3.38% | 0.245% |
| 16 | 9.722 | 1326 | 1332 | 1334 | rBV | 22183 | 22018 | 1.24% | 0.090% |
| 17 | 9.751 | 1334 | 1337 | 1342 | rVV3 | 27675 | 34286 | 1.94% | 0.140% |
| 18 | 9.939 | 1364 | 1369 | 1372 | rBV | 81696 | 94756 | 5.35% | 0.388% |
| 19 | 9.969 | 1372 | 1374 | 1377 | rVB | 39473 | 31771 | 1.79% | 0.130% |
| 20 | 10.057 | 1382 | 1389 | 1396 | rVB2 | 52947 | 59840 | 3.38% | 0.245% |
| 21 | 10.186 | 1406 | 1411 | 1414 | rBV2 | 22051 | 28579 | 1.61% | 0.117% |
| 22 | 10.216 | 1414 | 1416 | 1423 | rVB3 | 21346 | 26670 | 1.51% | 0.109% |
| 23 | 10.298 | 1426 | 1430 | 1436 | rBV | 968016 | 886321 | 50.04% | 3.630% |
| 24 | 10.439 | 1447 | 1454 | 1461 | rBV2 | 63509 | 93588 | 5.28% | 0.383% |
| 25 | 10.528 | 1466 | 1469 | 1472 | rVB3 | 18604 | 18454 | 1.04% | 0.076% |
| 26 | 10.739 | 1499 | 1505 | 1506 | rBV6 | 16364 | 27613 | 1.56% | 0.113% |
| 27 | 10.804 | 1513 | 1516 | 1519 | rVB2 | 27869 | 24925 | 1.41% | 0.102% |
| 28 | 10.845 | 1521 | 1523 | 1526 | rVV3 | 20074 | 21235 | 1.20% | 0.087% |
| 29 | 10.886 | 1526 | 1530 | 1532 | rVV | 81383 | 77410 | 4.37% | 0.317% |
| 30 | 10.910 | 1532 | 1534 | 1538 | rVB | 22011 | 21806 | 1.23% | 0.089% |
| 31 | 10.986 | 1543 | 1547 | 1549 | rBV | 1125054 | 997381 | 56.31% | 4.085% |
| 32 | 11.010 | 1549 | 1551 | 1555 | rVB | 704545 | 557583 | 31.48% | 2.284% |
| 33 | 11.063 | 1555 | 1560 | 1564 | rVB | 168578 | 156252 | 8.82% | 0.640% |
| 34 | 11.104 | 1564 | 1567 | 1570 | rBV2 | 23159 | 24545 | 1.39% | 0.101% |

LSC Area Percent Report

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Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

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-BF072517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.228 | 1583 | 1588 | 1596 | rVB3 | 68684 | 120388 | 6.80% | 0.493% |
| 36 | 11.310 | 1599 | 1602 | 1604 | rBV | 36030 | 31661 | 1.79% | 0.130% |
| 37 | 11.486 | 1629 | 1632 | 1635 | rBV | 77702 | 72349 | 4.08% | 0.296% |
| 38 | 11.516 | 1635 | 1637 | 1639 | rVV | 111292 | 93283 | 5.27% | 0.382% |
| 39 | 11.539 | 1639 | 1641 | 1643 | rVV | 75880 | 72554 | 4.10% | 0.297% |
| 40 | 11.563 | 1643 | 1645 | 1648 | rVV | 72581 | 68757 | 3.88% | 0.282% |
| 41 | 11.598 | 1648 | 1651 | 1653 | rVV | 126265 | 133399 | 7.53% | 0.546% |
| 42 | 11.622 | 1653 | 1655 | 1662 | rVB | 52048 | 58873 | 3.32% | 0.241% |
| 43 | 11.716 | 1668 | 1671 | 1674 | rVB2 | 25390 | 27743 | 1.57% | 0.114% |
| 44 | 11.786 | 1680 | 1683 | 1685 | rBV | 52552 | 49292 | 2.78% | 0.202% |
| 45 | 11.816 | 1685 | 1688 | 1693 | rVB2 | 27899 | 30524 | 1.72% | 0.125% |
| 46 | 11.933 | 1705 | 1708 | 1711 | rBV4 | 18132 | 20434 | 1.15% | 0.084% |
| 47 | 11.992 | 1715 | 1718 | 1721 | rVB3 | 19368 | 20349 | 1.15% | 0.083% |
| 48 | 12.033 | 1722 | 1725 | 1728 | rBV | 52430 | 54293 | 3.07% | 0.222% |
| 49 | 12.098 | 1734 | 1736 | 1738 | rVB2 | 23674 | 19621 | 1.11% | 0.080% |
| 50 | 12.122 | 1738 | 1740 | 1745 | rVB | 53058 | 55810 | 3.15% | 0.229% |
| 51 | 12.192 | 1748 | 1752 | 1756 | rBV | 990602 | 855452 | 48.29% | 3.504% |
| 52 | 12.322 | 1772 | 1774 | 1775 | rBV | 44318 | 35158 | 1.98% | 0.144% |
| 53 | 12.339 | 1775 | 1777 | 1782 | rVV | 58718 | 65669 | 3.71% | 0.269% |
| 54 | 12.416 | 1785 | 1790 | 1793 | rVV | 759796 | 764795 | 43.18% | 3.132% |
| 55 | 12.469 | 1797 | 1799 | 1808 | rVB3 | 48620 | 63324 | 3.57% | 0.259% |
| 56 | 12.539 | 1808 | 1811 | 1813 | rBV | 46817 | 54614 | 3.08% | 0.224% |
| 57 | 12.569 | 1813 | 1816 | 1823 | rVB | 1018559 | 950910 | 53.68% | 3.895% |
| 58 | 12.645 | 1823 | 1829 | 1832 | rBV4 | 50925 | 89706 | 5.06% | 0.367% |
| 59 | 12.669 | 1832 | 1833 | 1836 | rVB | 25919 | 20254 | 1.14% | 0.083% |
| 60 | 12.704 | 1836 | 1839 | 1840 | rBV3 | 15964 | 17754 | 1.00% | 0.073% |
| 61 | 12.751 | 1844 | 1847 | 1850 | rVB | 105753 | 111217 | 6.28% | 0.455% |
| 62 | 12.816 | 1855 | 1858 | 1861 | rBV3 | 62708 | 64745 | 3.66% | 0.265% |
| 63 | 12.851 | 1861 | 1864 | 1872 | rVB | 86961 | 97152 | 5.48% | 0.398% |
| 64 | 12.939 | 1876 | 1879 | 1882 | rVB | 39109 | 37471 | 2.12% | 0.153% |
| 65 | 12.974 | 1882 | 1885 | 1888 | rBV | 40137 | 42882 | 2.42% | 0.176% |
| 66 | 13.169 | 1916 | 1918 | 1922 | rVB4 | 39467 | 40942 | 2.31% | 0.168% |
| 67 | 13.257 | 1930 | 1933 | 1937 | rVB | 61733 | 59933 | 3.38% | 0.245% |
| 68 | 13.363 | 1948 | 1951 | 1953 | rBV | 97799 | 89818 | 5.07% | 0.368% |
| 69 | 13.386 | 1953 | 1955 | 1957 | rVB | 48323 | 38422 | 2.17% | 0.157% |
| 70 | 13.410 | 1957 | 1959 | 1961 | rBV | 35775 | 27119 | 1.53% | 0.111% |
| 71 | 13.469 | 1966 | 1969 | 1970 | rBV | 60732 | 64482 | 3.64% | 0.264% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

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-BF072517.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.610 | 1986 | 1993 | 1996 | rBV2 | 862152 | 1192104 | 67.30% | 4.882% |
| 73 | 13.633 | 1996 | 1997 | 2001 | rVB | 367338 | 303509 | 17.13% | 1.243% |
| 74 | 13.716 | 2008 | 2011 | 2014 | rBV2 | 35056 | 32789 | 1.85% | 0.134% |
| 75 | 13.763 | 2017 | 2019 | 2021 | rBV2 | 23484 | 19007 | 1.07% | 0.078% |
| 76 | 13.810 | 2025 | 2027 | 2031 | rVV3 | 31320 | 36783 | 2.08% | 0.151% |
| 77 | 13.963 | 2050 | 2053 | 2055 | rBV | 41483 | 44394 | 2.51% | 0.182% |
| 78 | 13.998 | 2056 | 2059 | 2063 | rVV | 79647 | 86005 | 4.86% | 0.352% |
| 79 | 14.033 | 2063 | 2065 | 2067 | rVB | 33069 | 23631 | 1.33% | 0.097% |
| 80 | 14.116 | 2077 | 2079 | 2081 | rBV3 | 30380 | 27774 | 1.57% | 0.114% |
| 81 | 14.374 | 2121 | 2123 | 2126 | rBV3 | 54366 | 67117 | 3.79% | 0.275% |
| 82 | 14.468 | 2137 | 2139 | 2142 | rBV2 | 38922 | 39647 | 2.24% | 0.162% |
| 83 | 14.604 | 2158 | 2162 | 2171 | rBV | 476905 | 745470 | 42.09% | 3.053% |
| 84 | 14.692 | 2174 | 2177 | 2181 | rVB | 85796 | 79374 | 4.48% | 0.325% |
| 85 | 14.857 | 2201 | 2205 | 2210 | rVB | 238048 | 276189 | 15.59% | 1.131% |
| 86 | 14.910 | 2210 | 2214 | 2218 | rBV | 323657 | 358393 | 20.23% | 1.468% |
| 87 | 14.963 | 2219 | 2223 | 2226 | rBV | 543853 | 627107 | 35.40% | 2.568% |
| 88 | 15.527 | 2317 | 2319 | 2326 | rVB5 | 46409 | 71869 | 4.06% | 0.294% |
| 89 | 16.180 | 2425 | 2430 | 2436 | rBV | 154008 | 282422 | 15.94% | 1.157% |
| 90 | 16.545 | 2487 | 2492 | 2502 | rVB | 116043 | 223475 | 12.62% | 0.915% |

Sum of corrected areas: 24416473

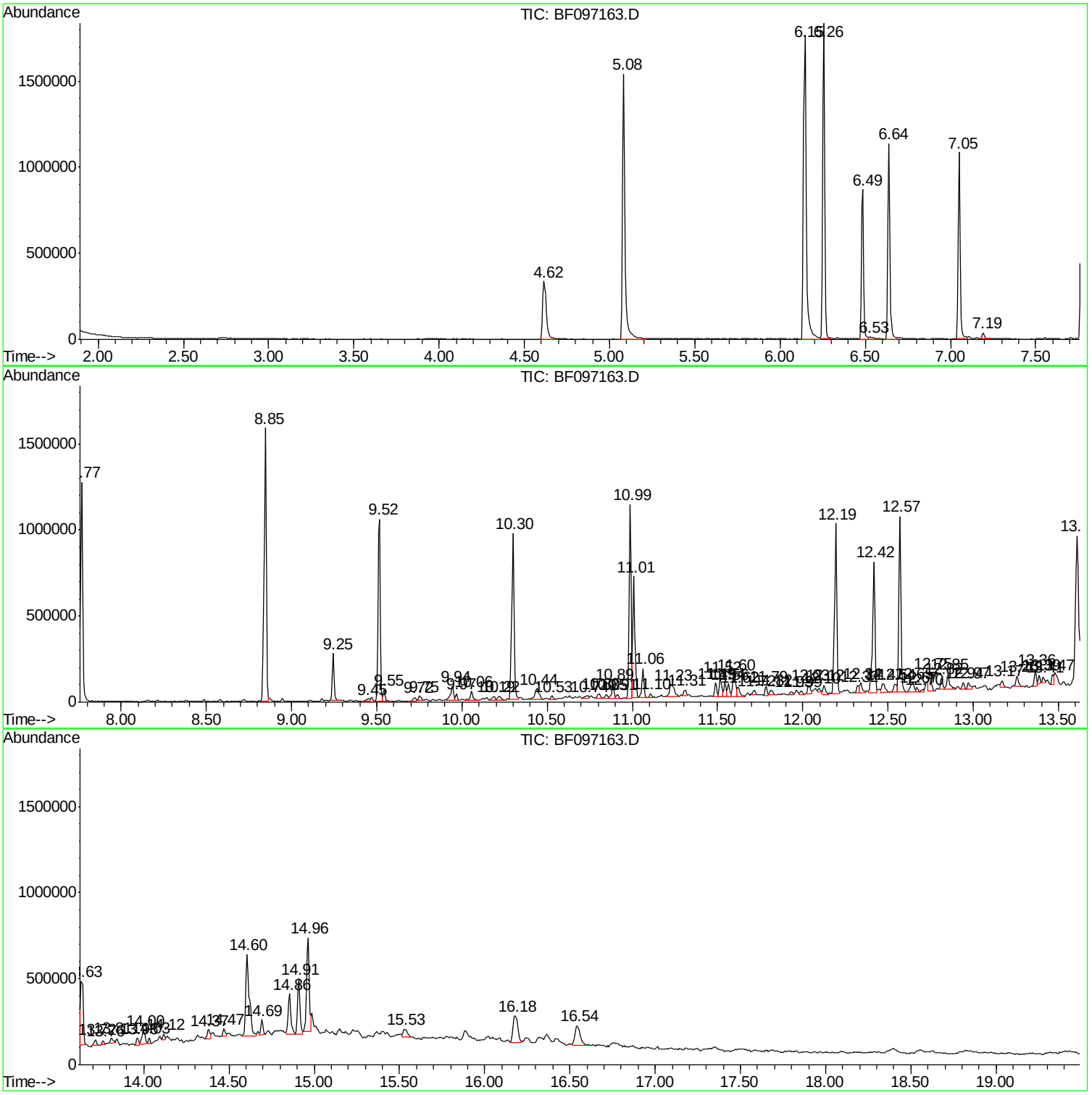
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

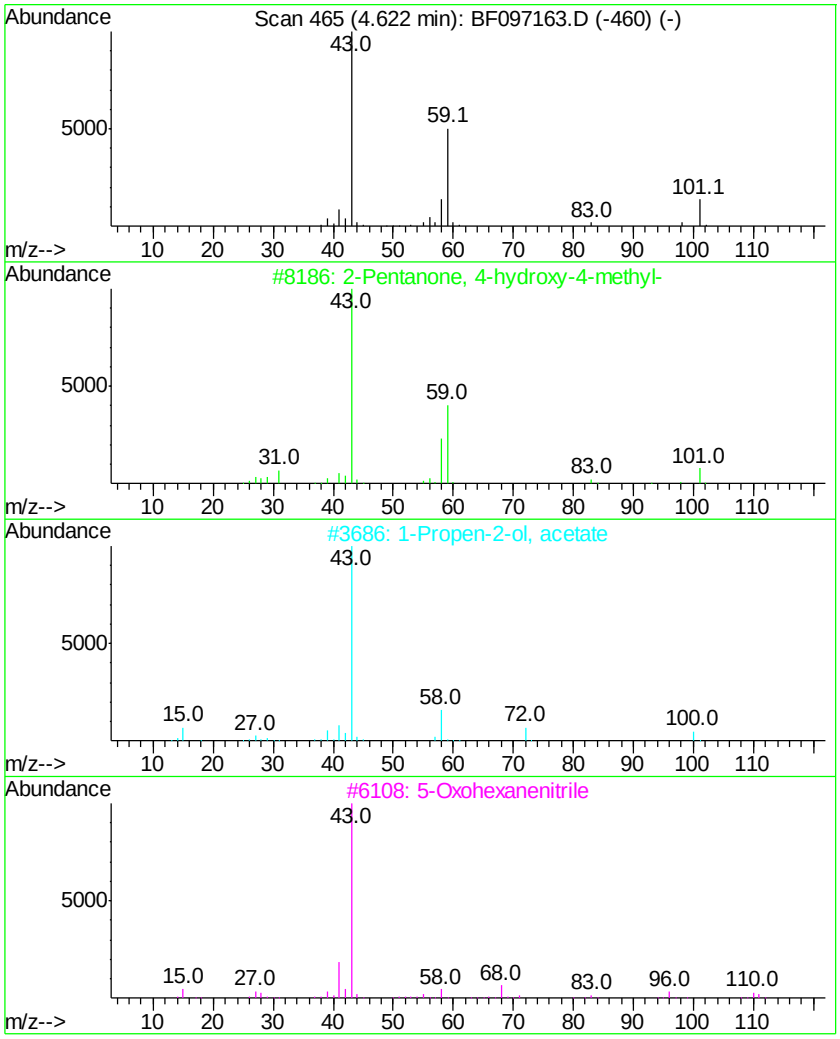
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

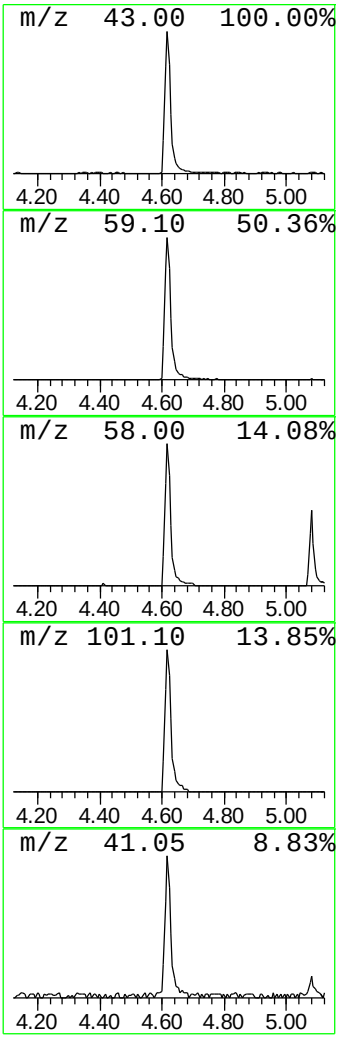
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.62 | 11.11 ng | 445635 | 1,4-Dichlorobenzene-d4 | 6.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 9 |
| 3 | 5-Oxohexanenitrile | 111 | C6H9NO | 010412-98-3 | 9 |
| 4 | Formamide, N,N-diethyl- | 101 | C5H11NO | 000617-84-5 | 7 |
| 5 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 7 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

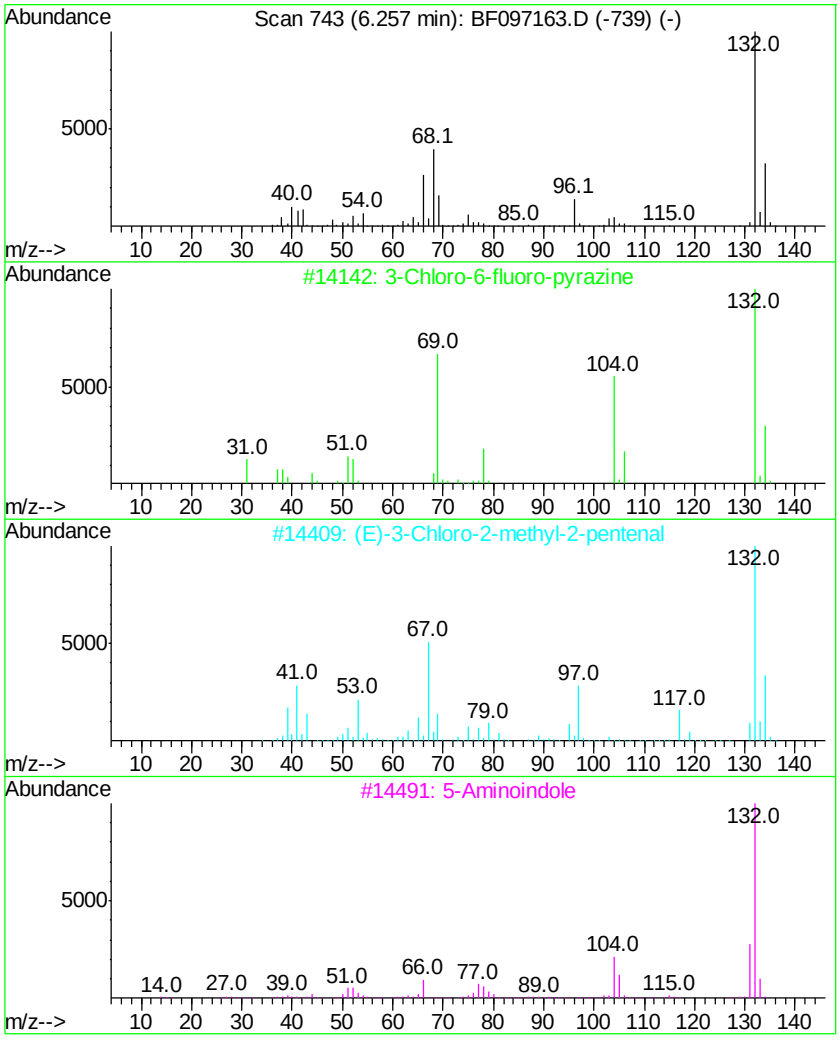
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

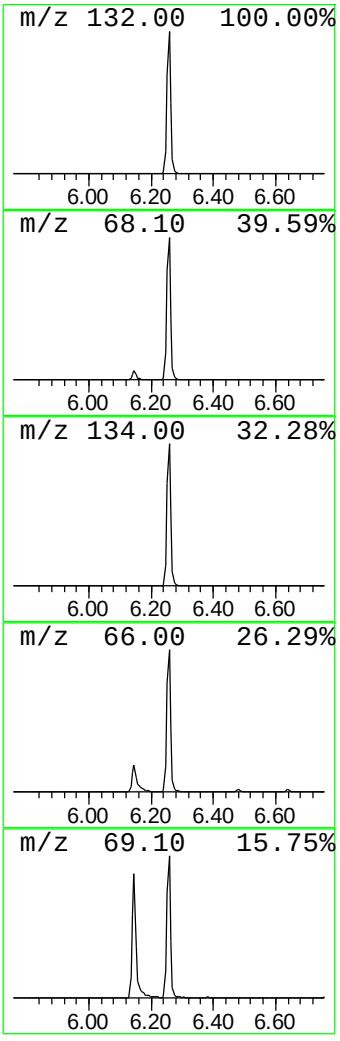
**********

Peak Number 2 unknown6.26 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.26 | 40.53 ng | 1625130 | 1,4-Dichlorobenzene-d4 | 6.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 16 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
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Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

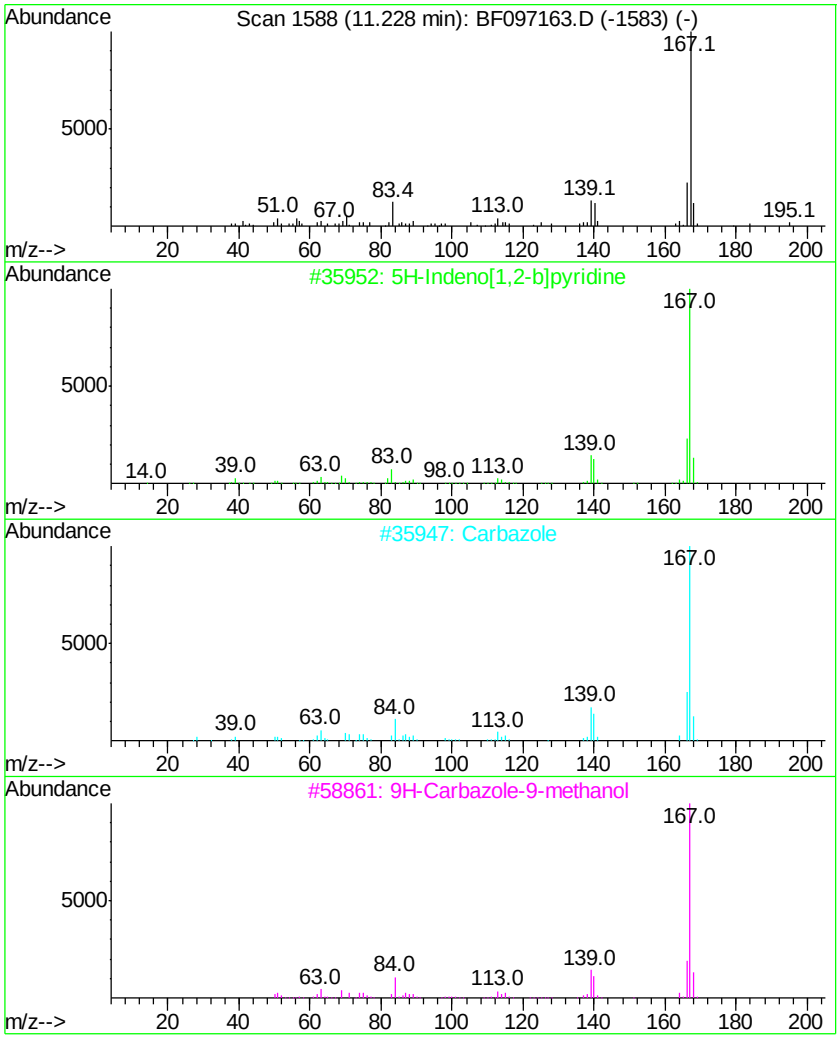
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

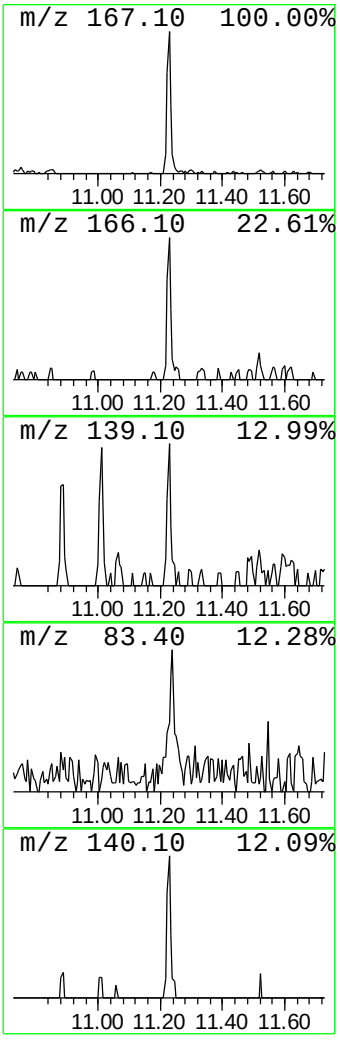
**********

Peak Number 4 5H-Indeno[1,2-b]pyridine Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.23 | 2.41 ng | 120388 | Phenanthrene-d10 | 10.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Indeno[1,2-b]pyridine | 167 | C12H9N | 000244-99-5 | 94 |
| 2 | Carbazole | 167 | C12H9N | 000086-74-8 | 90 |
| 3 | 9H-Carbazole-9-methanol | 197 | C13H11NO | 002409-36-1 | 78 |
| 4 | 9H-Carbazole, 9-nitroso- | 196 | C12H8N2O | 002788-23-0 | 78 |
| 5 | 1-Naphthaleneacetonitrile | 167 | C12H9N | 000132-75-2 | 76 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

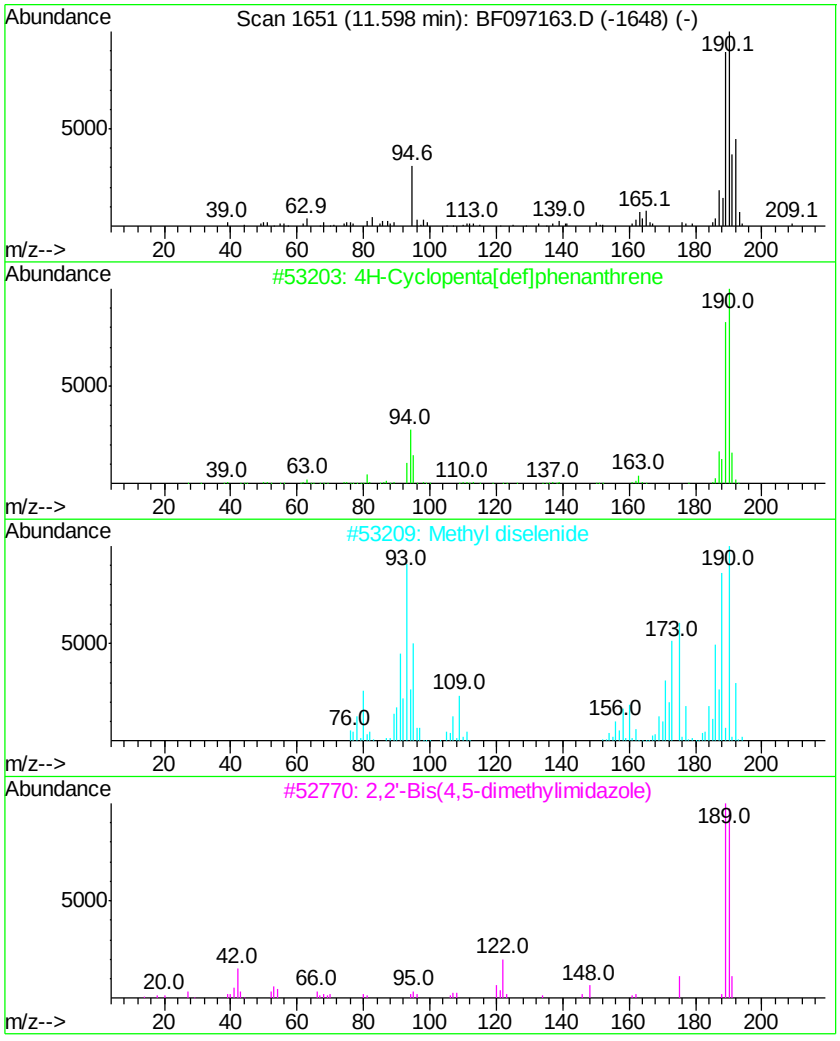
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

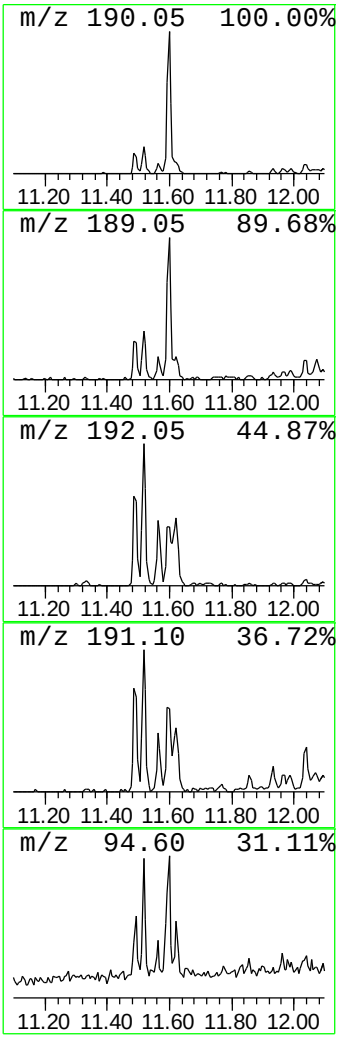
**********

Peak Number 5 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.60 | 2.67 ng | 133399 | Phenanthrene-d10 | 10.99 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 81 |
| 2 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |
| 3 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 38 |
| 4 | 6,7-Methylenedioxy-4(3H)-quinazo... | 190 | C9H6N2O3 | 028310-11-4 | 38 |
| 5 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 28 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

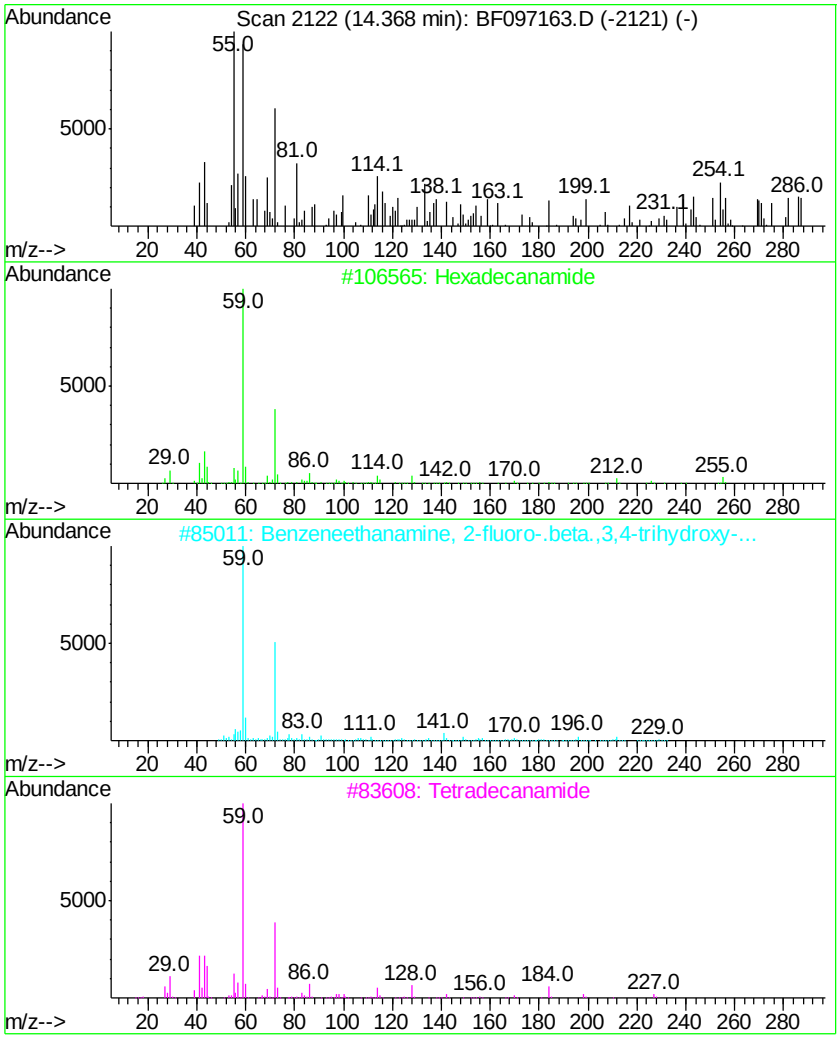
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

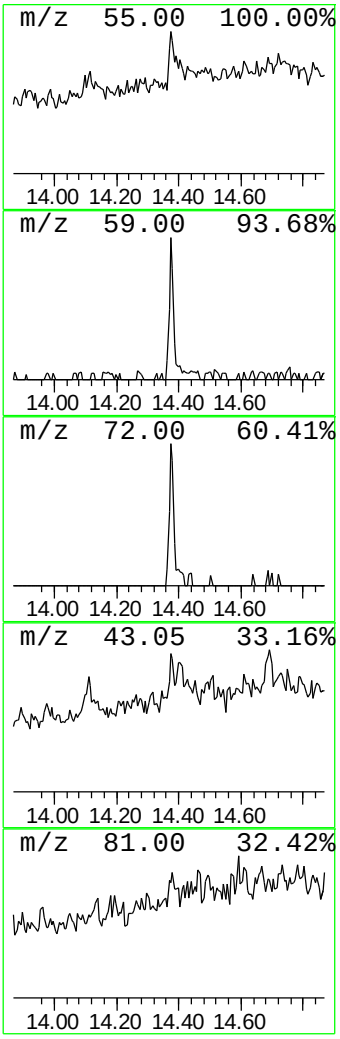
**********

Peak Number 6 Hexadecanamide Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.37 | 2.14 ng | 67117 | Perylene-d12 | 14.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecanamide | 255 | C16H33NO | 000629-54-9 | 52 |
| 2 | Benzeneethanamine, 2-fluoro-.bet... | 229 | C11H16FNO3 | 061338-98-5 | 47 |
| 3 | Tetradecanamide | 227 | C14H29NO | 000638-58-4 | 46 |
| 4 | Octadecanamide | 283 | C18H37NO | 000124-26-5 | 43 |
| 5 | Nonanamide | 157 | C9H19NO | 001120-07-6 | 43 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

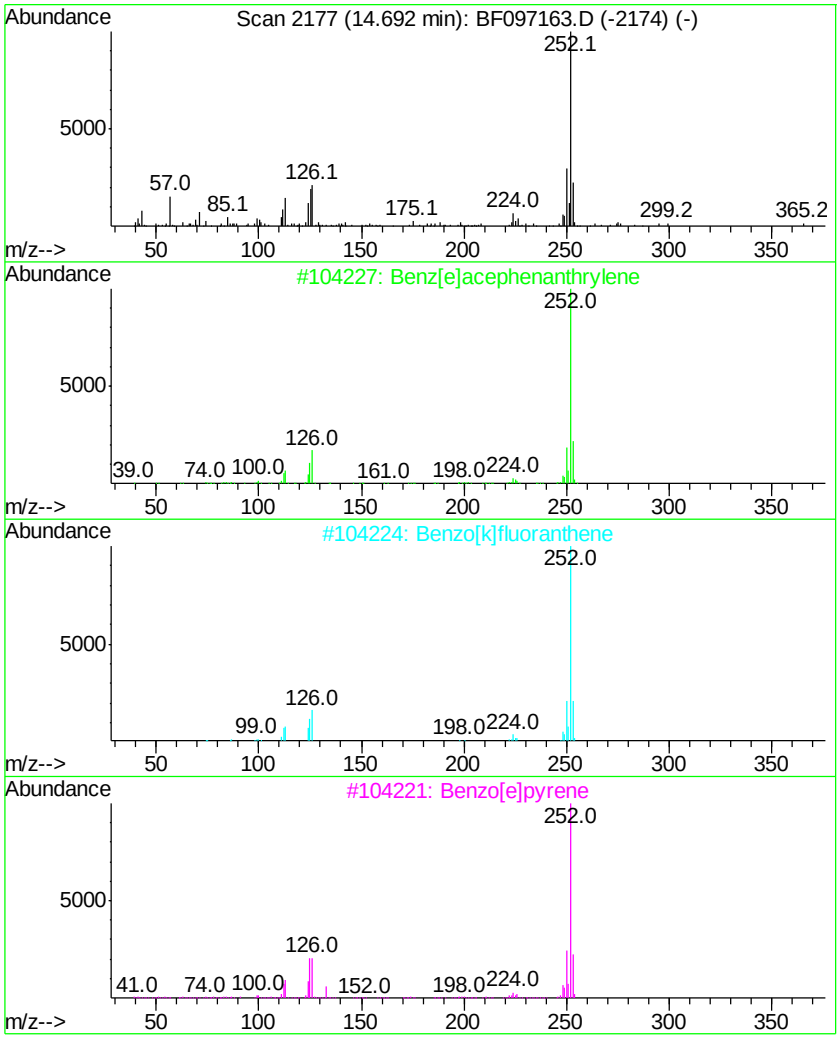
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

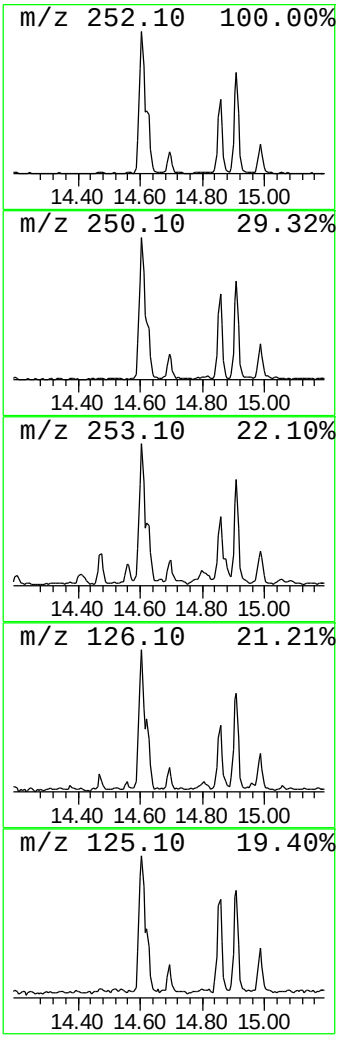
**********

Peak Number 7 Benz[e]acephenanthrylene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.69 | 2.53 ng | 79374 | Perylene-d12 | 14.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 2 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 93 |
| 3 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 93 |
| 4 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 91 |
| 5 | Perylene | 252 | C20H12 | 000198-55-0 | 91 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

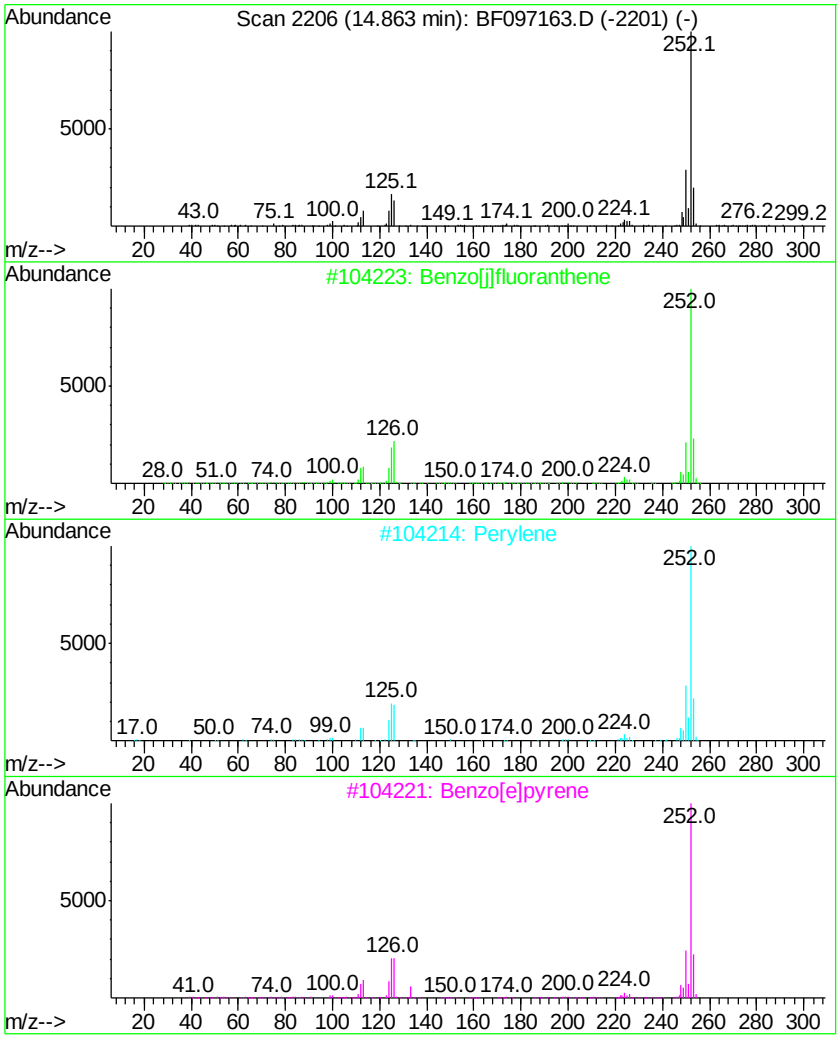
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

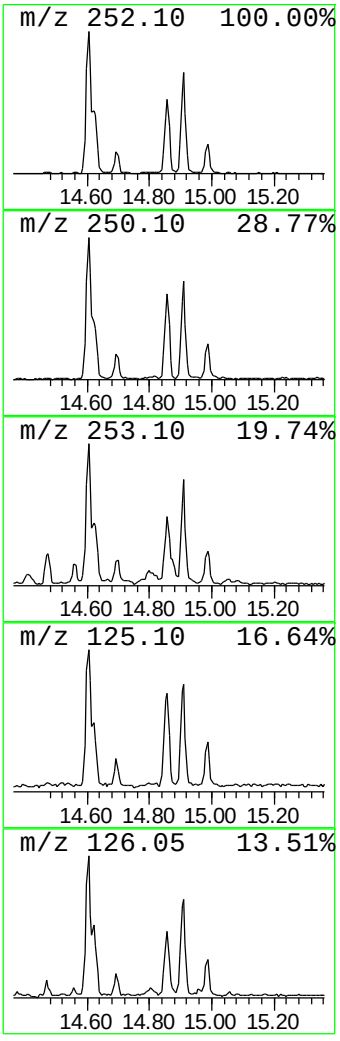
**********

Peak Number 8 Benzo[j]fluoranthene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.86 | 8.81 ng | 276189 | Perylene-d12 | 14.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 98 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 98 |
| 3 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

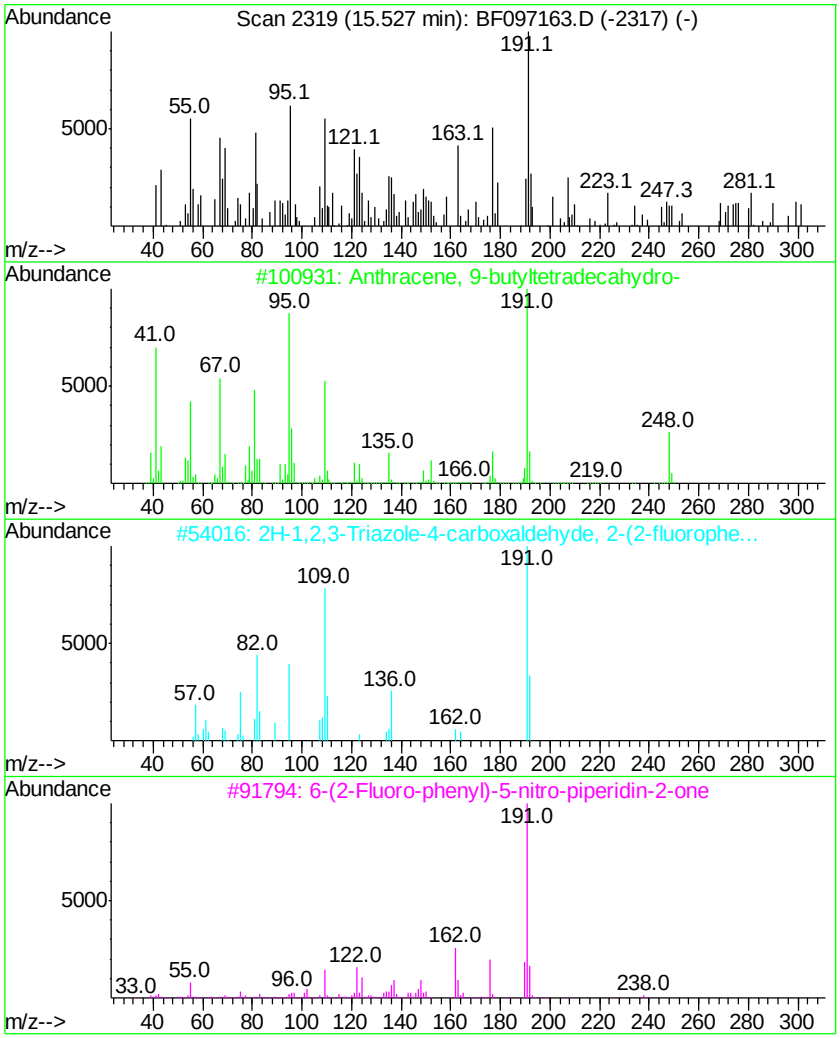
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

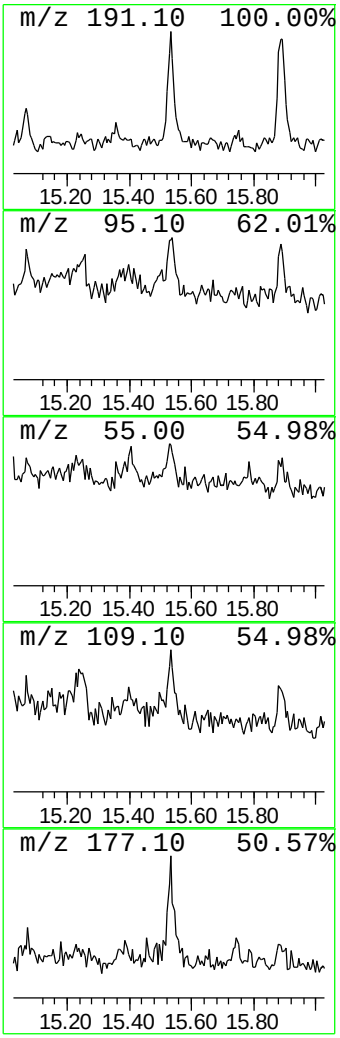
**********

Peak Number 9 unknown15.53 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.53 | 2.29 ng | 71869 | Perylene-d12 | 14.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 9-butyltetradecahydro- | 248 | C18H32 | 055133-89-6 | 47 |
| 2 | 2H-1,2,3-Triazole-4-carboxaldehy... | 191 | C9H6FN3O | 051306-43-5 | 38 |
| 3 | 6-(2-Fluoro-phenyl)-5-nitro-pipe... | 238 | C11H11FN2O3 | 1000275-16-4 | 35 |
| 4 | 5-(7a-Isopropenyl-4,5-dimethyl-o... | 290 | C20H34O | 1000193-54-0 | 27 |
| 5 | 3-Fluoro-4-trifluoromethylbenzoi... | 266 | C11H10F4O3 | 1000357-34-9 | 27 |



# Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF072817\
Data File : BF097163.D
Acq On : 28 Jul 2017 19:35
Operator : SJ/JU
Sample : I4448-01 2X
Misc :
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** TCM-ROW

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF072517.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... | 4.62 | 11.1 | ng | 445635 | 1 | 6.49 | 801910 | 20.0 |
| unknown6.26 | 6.26 | 40.5 | ng | 1625130 | 1 | 6.49 | 801910 | 20.0 |
| 5H-Indeno[1,2-b]p... | 11.23 | 2.4 | ng | 120388 | 4 | 10.99 | 997381 | 20.0 |
| 4H-Cyclopenta[def... | 11.60 | 2.7 | ng | 133399 | 4 | 10.99 | 997381 | 20.0 |
| Hexadecanamide | 14.37 | 2.1 | ng | 67117 | 6 | 14.96 | 627107 | 20.0 |
| Benz[e]acephenant... | 14.69 | 2.5 | ng | 79374 | 6 | 14.96 | 627107 | 20.0 |
| Benzo[j]fluoranthene | 14.86 | 8.8 | ng | 276189 | 6 | 14.96 | 627107 | 20.0 |
| unknown15.53 | 15.53 | 2.3 | ng | 71869 | 6 | 14.96 | 627107 | 20.0 |