LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

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-BF120619.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 | 2.481 | 57 | 67 | 73 | rVB | 83405 | 117225 | 4.23% | 0.191% |
| 2 | 5.075 | 503 | 508 | 515 | rVB | 341377 | 398232 | 14.35% | 0.649% |
| 3 | 5.481 | 573 | 577 | 580 | rBV | 2185707 | 1954246 | 70.44% | 3.184% |
| 4 | 6.498 | 745 | 750 | 753 | rBV | 2346931 | 2150213 | 77.50% | 3.503% |
| 5 | 6.639 | 769 | 774 | 777 | rBV | 2611843 | 2366807 | 85.31% | 3.856% |
| 6 | 6.698 | 781 | 784 | 788 | rVB | 86362 | 71756 | 2.59% | 0.117% |
| 7 | 6.869 | 809 | 813 | 816 | rBV | 809641 | 724626 | 26.12% | 1.181% |
| 8 | 7.022 | 835 | 839 | 843 | rBV | 2179556 | 1828155 | 65.89% | 2.979% |
| 9 | 7.428 | 904 | 908 | 911 | rBV | 1485524 | 1346859 | 48.55% | 2.194% |
| 10 | 7.539 | 924 | 927 | 930 | rVB | 57948 | 45455 | 1.64% | 0.074% |
| 11 | 8.151 | 1028 | 1031 | 1033 | rBV | 1113669 | 947357 | 34.15% | 1.544% |
| 12 | 8.175 | 1033 | 1035 | 1039 | rVV | 982126 | 724616 | 26.12% | 1.181% |
| 13 | 8.869 | 1149 | 1153 | 1159 | rBV | 552540 | 447031 | 16.11% | 0.728% |
| 14 | 8.969 | 1166 | 1170 | 1178 | rVB | 246709 | 218362 | 7.87% | 0.356% |
| 15 | 9.233 | 1210 | 1215 | 1218 | rBV | 3060874 | 2774415 | 100.00% | 4.520% |
| 16 | 9.333 | 1229 | 1232 | 1237 | rVB | 190648 | 169788 | 6.12% | 0.277% |
| 17 | 9.427 | 1245 | 1248 | 1253 | rVB | 61789 | 54320 | 1.96% | 0.089% |
| 18 | 9.498 | 1256 | 1260 | 1264 | rVV | 76439 | 99828 | 3.60% | 0.163% |
| 19 | 9.569 | 1269 | 1272 | 1275 | rBV | 91522 | 92596 | 3.34% | 0.151% |
| 20 | 9.622 | 1279 | 1281 | 1285 | rVV | 245673 | 208912 | 7.53% | 0.340% |
| 21 | 9.686 | 1290 | 1292 | 1299 | rVB2 | 47087 | 54484 | 1.96% | 0.089% |
| 22 | 9.774 | 1303 | 1307 | 1312 | rVB | 178903 | 151548 | 5.46% | 0.247% |
| 23 | 9.916 | 1324 | 1331 | 1333 | rBV | 1320759 | 1174442 | 42.33% | 1.914% |
| 24 | 9.945 | 1333 | 1336 | 1340 | rVB | 600882 | 458954 | 16.54% | 0.748% |
| 25 | 10.069 | 1352 | 1357 | 1360 | rBV2 | 36195 | 44179 | 1.59% | 0.072% |
| 26 | 10.116 | 1362 | 1365 | 1370 | rVB | 448223 | 409737 | 14.77% | 0.668% |
| 27 | 10.339 | 1396 | 1403 | 1406 | rBV4 | 36189 | 53074 | 1.91% | 0.086% |
| 28 | 10.369 | 1406 | 1408 | 1410 | rBV | 63096 | 44800 | 1.61% | 0.073% |
| 29 | 10.427 | 1410 | 1418 | 1420 | rBV4 | 31396 | 47004 | 1.69% | 0.077% |
| 30 | 10.463 | 1420 | 1424 | 1430 | rVB | 383273 | 322787 | 11.63% | 0.526% |
| 31 | 10.521 | 1430 | 1434 | 1437 | rBV2 | 64668 | 78258 | 2.82% | 0.128% |
| 32 | 10.621 | 1448 | 1451 | 1455 | rBV3 | 133755 | 134558 | 4.85% | 0.219% |
| 33 | 10.669 | 1455 | 1459 | 1461 | rVV | 185364 | 198821 | 7.17% | 0.324% |
| 34 | 10.704 | 1462 | 1465 | 1475 | rVB2 | 2062015 | 1936866 | 69.81% | 3.156% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

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-BF120619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.786 | 1475 | 1479 | 1481 | rBV3 | 50642 | 78022 | 2.81% | 0.127% |
| 36 | 10.816 | 1481 | 1484 | 1485 | rBV | 119345 | 113527 | 4.09% | 0.185% |
| 37 | 10.833 | 1485 | 1487 | 1489 | rVV | 999284 | 763213 | 27.51% | 1.244% |
| 38 | 10.857 | 1489 | 1491 | 1493 | rVV | 278458 | 207834 | 7.49% | 0.339% |
| 39 | 10.886 | 1493 | 1496 | 1498 | rVV | 1932301 | 1566549 | 56.46% | 2.552% |
| 40 | 10.921 | 1498 | 1502 | 1505 | rVV2 | 2295646 | 2592464 | 93.44% | 4.224% |
| 41 | 10.957 | 1505 | 1508 | 1510 | rVV | 2034190 | 1856725 | 66.92% | 3.025% |
| 42 | 10.980 | 1510 | 1512 | 1514 | rVV | 1224211 | 911221 | 32.84% | 1.485% |
| 43 | 11.010 | 1514 | 1517 | 1518 | rVV | 610623 | 686608 | 24.75% | 1.119% |
| 44 | 11.021 | 1518 | 1519 | 1520 | rVV | 708306 | 423067 | 15.25% | 0.689% |
| 45 | 11.033 | 1520 | 1521 | 1524 | rVV | 773780 | 617575 | 22.26% | 1.006% |
| 46 | 11.068 | 1524 | 1527 | 1530 | rVV3 | 1685815 | 1942035 | 70.00% | 3.164% |
| 47 | 11.104 | 1530 | 1533 | 1535 | rVV | 1829706 | 1544070 | 55.65% | 2.516% |
| 48 | 11.121 | 1535 | 1536 | 1538 | rVV | 604892 | 539450 | 19.44% | 0.879% |
| 49 | 11.145 | 1538 | 1540 | 1545 | rVV2 | 1162844 | 962893 | 34.71% | 1.569% |
| 50 | 11.216 | 1548 | 1552 | 1557 | rVV3 | 154028 | 235514 | 8.49% | 0.384% |
| 51 | 11.268 | 1558 | 1561 | 1562 | rVV | 111924 | 123820 | 4.46% | 0.202% |
| 52 | 11.286 | 1562 | 1564 | 1570 | rVV2 | 162882 | 309482 | 11.15% | 0.504% |
| 53 | 11.333 | 1570 | 1572 | 1574 | rVV | 93708 | 91818 | 3.31% | 0.150% |
| 54 | 11.357 | 1574 | 1576 | 1579 | rVB | 102396 | 84876 | 3.06% | 0.138% |
| 55 | 11.410 | 1581 | 1585 | 1587 | rVV | 1074594 | 1051829 | 37.91% | 1.714% |
| 56 | 11.433 | 1587 | 1589 | 1592 | rVV | 1632193 | 1214138 | 43.76% | 1.978% |
| 57 | 11.480 | 1594 | 1597 | 1600 | rVV | 420886 | 361058 | 13.01% | 0.588% |
| 58 | 11.516 | 1600 | 1603 | 1606 | rVB4 | 37513 | 47291 | 1.70% | 0.077% |
| 59 | 11.633 | 1618 | 1623 | 1630 | rBV | 132951 | 191500 | 6.90% | 0.312% |
| 60 | 11.698 | 1631 | 1634 | 1639 | rVV3 | 50356 | 76839 | 2.77% | 0.125% |
| 61 | 11.910 | 1664 | 1670 | 1671 | rBV | 176781 | 173364 | 6.25% | 0.282% |
| 62 | 11.933 | 1671 | 1674 | 1680 | rVV2 | 898822 | 855842 | 30.85% | 1.394% |
| 63 | 11.986 | 1680 | 1683 | 1686 | rVV2 | 79970 | 77453 | 2.79% | 0.126% |
| 64 | 12.021 | 1686 | 1689 | 1692 | rVV | 231319 | 246008 | 8.87% | 0.401% |
| 65 | 12.045 | 1692 | 1693 | 1697 | rVB | 107881 | 66557 | 2.40% | 0.108% |
| 66 | 12.104 | 1698 | 1703 | 1705 | rBV4 | 50340 | 88789 | 3.20% | 0.145% |
| 67 | 12.204 | 1718 | 1720 | 1723 | rBV | 168143 | 142575 | 5.14% | 0.232% |
| 68 | 12.233 | 1723 | 1725 | 1728 | rVB2 | 119912 | 103421 | 3.73% | 0.169% |
| 69 | 12.333 | 1740 | 1742 | 1744 | rBV2 | 41383 | 44396 | 1.60% | 0.072% |
| 70 | 12.357 | 1744 | 1746 | 1748 | rVV | 60875 | 50132 | 1.81% | 0.082% |
| 71 | 12.386 | 1748 | 1751 | 1753 | rVV | 84310 | 72644 | 2.62% | 0.118% |

LSC Area Percent Report

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Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

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-BF120619.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.463 | 1761 | 1764 | 1767 | rVV | 139200 | 159794 | 5.76% | 0.260% |
| 73 | 12.492 | 1767 | 1769 | 1772 | rVV3 | 92878 | 100841 | 3.63% | 0.164% |
| 74 | 12.545 | 1775 | 1778 | 1783 | rVV | 120059 | 160300 | 5.78% | 0.261% |
| 75 | 12.627 | 1788 | 1792 | 1795 | rBV | 2638507 | 2346022 | 84.56% | 3.822% |
| 76 | 12.657 | 1795 | 1797 | 1801 | rVV3 | 120056 | 167470 | 6.04% | 0.273% |
| 77 | 12.721 | 1805 | 1808 | 1815 | rBV3 | 443071 | 508417 | 18.33% | 0.828% |
| 78 | 12.857 | 1825 | 1831 | 1834 | rBV2 | 1937418 | 2305427 | 83.10% | 3.756% |
| 79 | 12.910 | 1837 | 1840 | 1843 | rVB3 | 154539 | 210673 | 7.59% | 0.343% |
| 80 | 12.998 | 1851 | 1855 | 1858 | rVB | 2470276 | 1939728 | 69.91% | 3.160% |
| 81 | 13.068 | 1865 | 1867 | 1872 | rBV3 | 90643 | 129994 | 4.69% | 0.212% |
| 82 | 13.186 | 1884 | 1887 | 1892 | rVB2 | 251606 | 328649 | 11.85% | 0.535% |
| 83 | 13.251 | 1896 | 1898 | 1901 | rVB | 171990 | 126904 | 4.57% | 0.207% |
| 84 | 13.286 | 1901 | 1904 | 1907 | rBV2 | 189223 | 223674 | 8.06% | 0.364% |
| 85 | 13.380 | 1918 | 1920 | 1923 | rBV | 104241 | 78524 | 2.83% | 0.128% |
| 86 | 13.445 | 1929 | 1931 | 1934 | rBV2 | 87282 | 65794 | 2.37% | 0.107% |
| 87 | 13.539 | 1945 | 1947 | 1950 | rBV | 178613 | 177386 | 6.39% | 0.289% |
| 88 | 13.621 | 1959 | 1961 | 1966 | rVB | 284861 | 255891 | 9.22% | 0.417% |
| 89 | 13.698 | 1971 | 1974 | 1982 | rVV2 | 198425 | 347125 | 12.51% | 0.566% |
| 90 | 13.809 | 1988 | 1993 | 1995 | rBV4 | 307738 | 510802 | 18.41% | 0.832% |
| 91 | 13.833 | 1995 | 1997 | 1999 | rVV | 185735 | 185405 | 6.68% | 0.302% |
| 92 | 13.857 | 1999 | 2001 | 2005 | rVV4 | 199927 | 319214 | 11.51% | 0.520% |
| 93 | 14.057 | 2028 | 2035 | 2038 | rBV3 | 1428319 | 2504601 | 90.27% | 4.081% |
| 94 | 14.086 | 2038 | 2040 | 2043 | rVB | 938725 | 831385 | 29.97% | 1.355% |
| 95 | 15.121 | 2211 | 2216 | 2219 | rBV | 1051545 | 1642670 | 59.21% | 2.676% |
| 96 | 15.427 | 2265 | 2268 | 2274 | rVB | 542166 | 722840 | 26.05% | 1.178% |
| 97 | 15.492 | 2275 | 2279 | 2285 | rBV | 744307 | 1162093 | 41.89% | 1.893% |
| 98 | 15.556 | 2287 | 2290 | 2294 | rVV | 444434 | 538210 | 19.40% | 0.877% |
| 99 | 17.068 | 2542 | 2547 | 2556 | rVB2 | 287045 | 600166 | 21.63% | 0.978% |
| 100 | 17.521 | 2620 | 2624 | 2632 | rVB | 193000 | 360144 | 12.98% | 0.587% |

Sum of corrected areas: 61375053

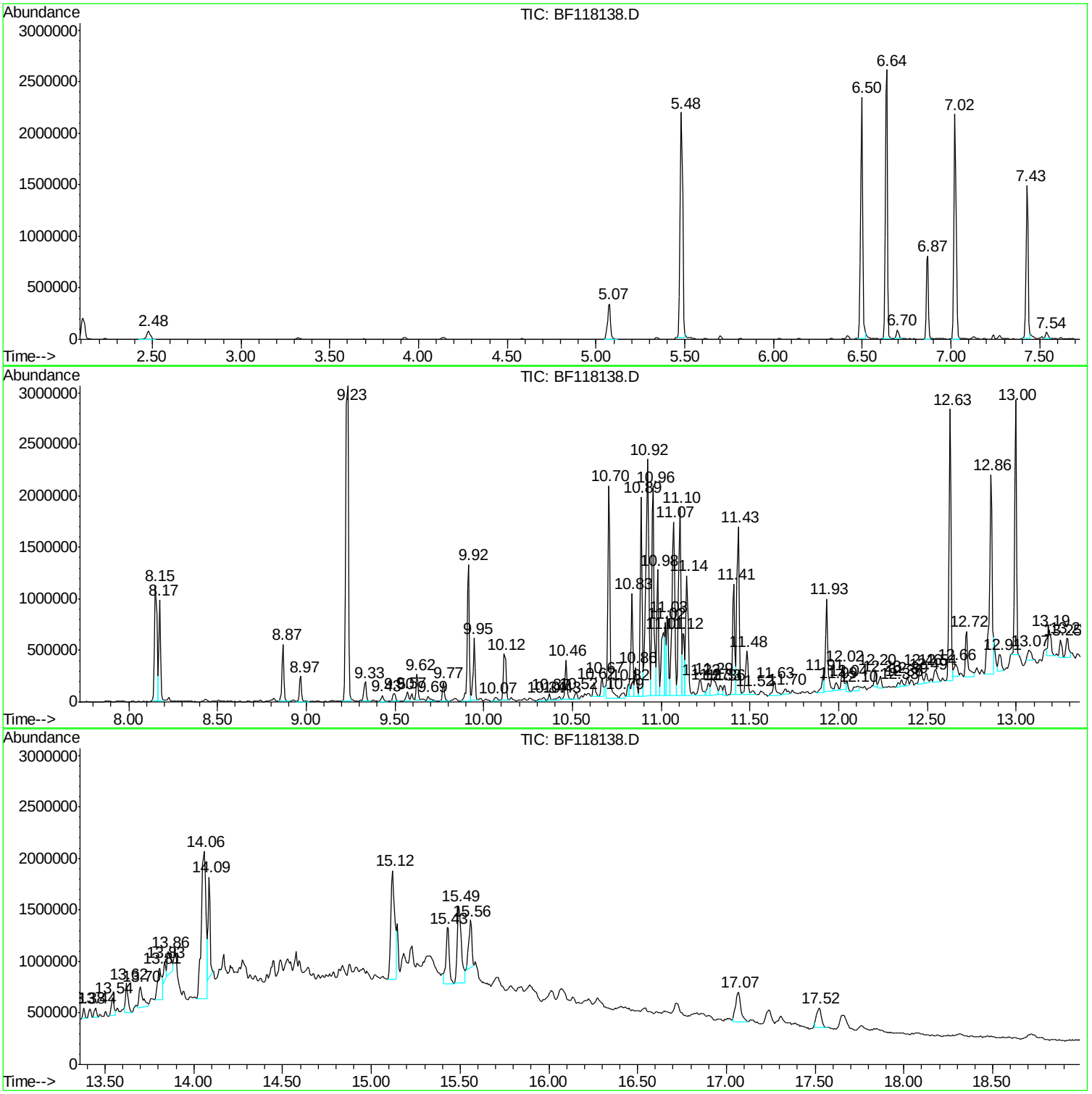
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
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**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
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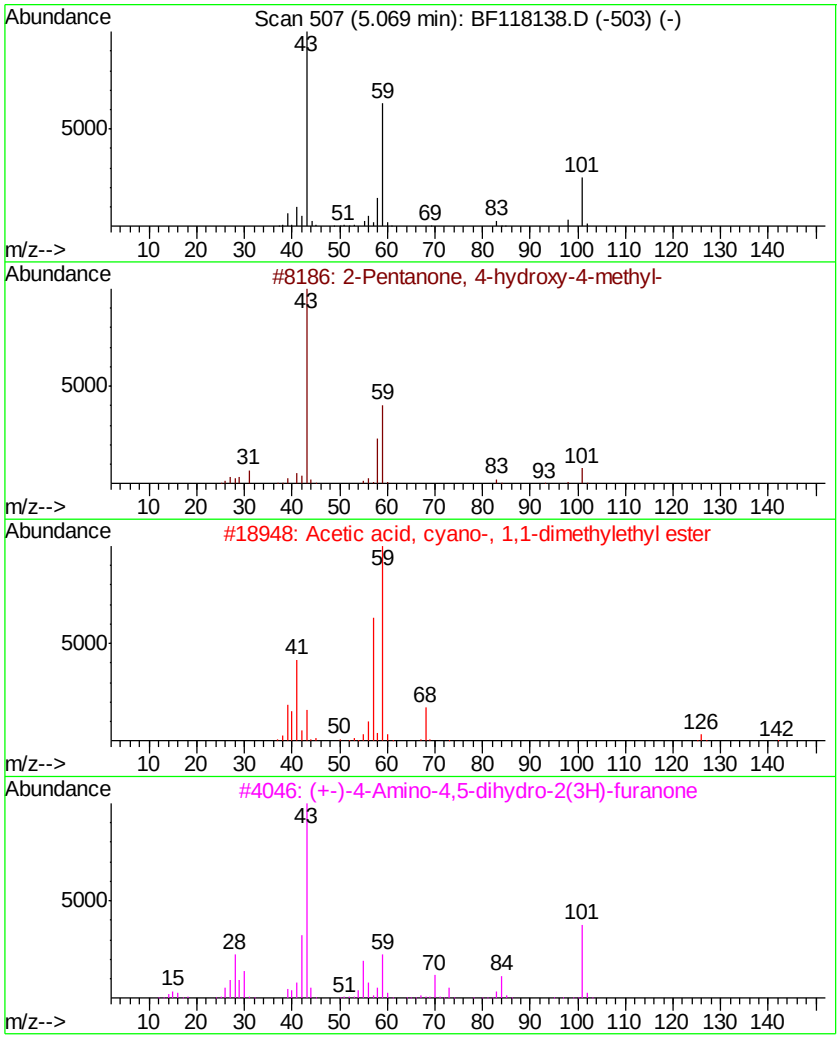
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

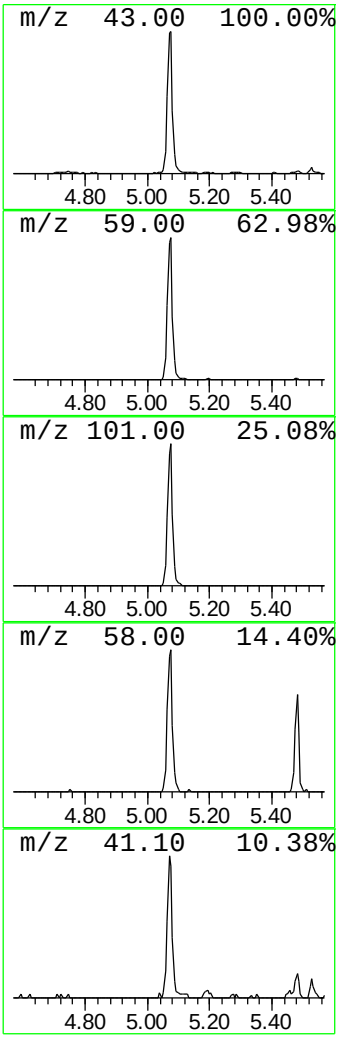
**********

Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.07 | 10.99 ng | 398232 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 56 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 3 | (+-)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9 |
| 4 | 5-Hexen-2-one | 98 | C6H10O | 000109-49-9 | 9 |
| 5 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
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**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

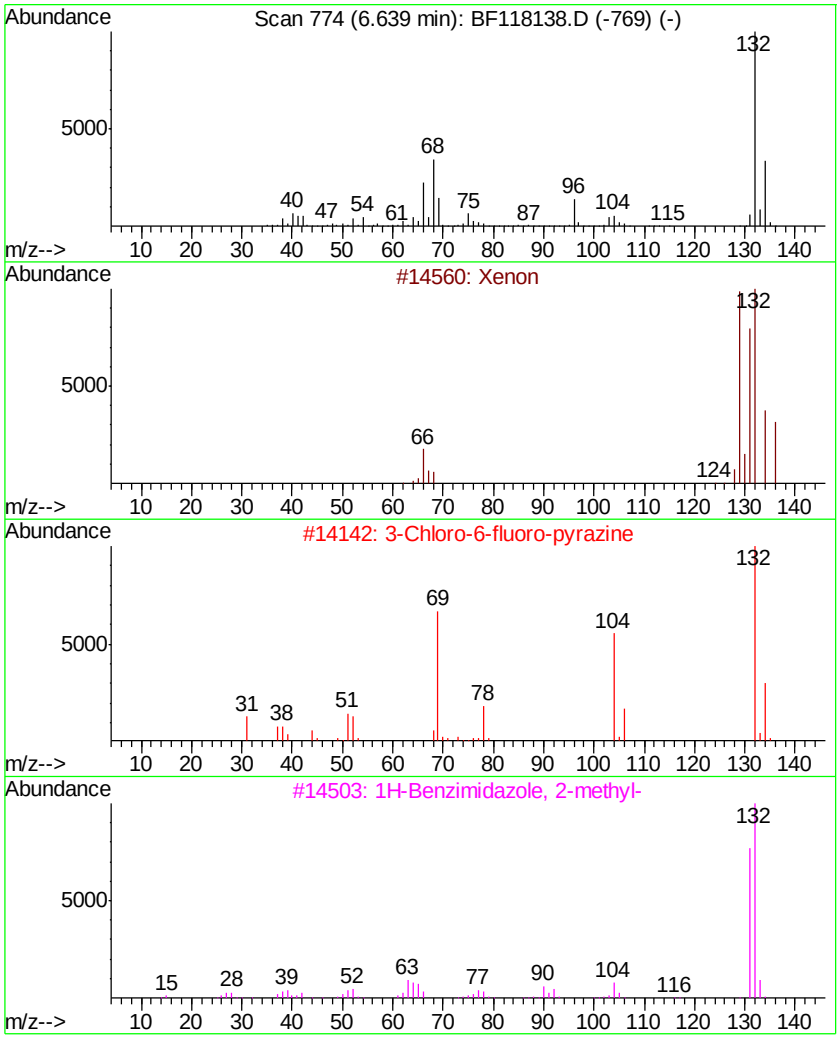
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

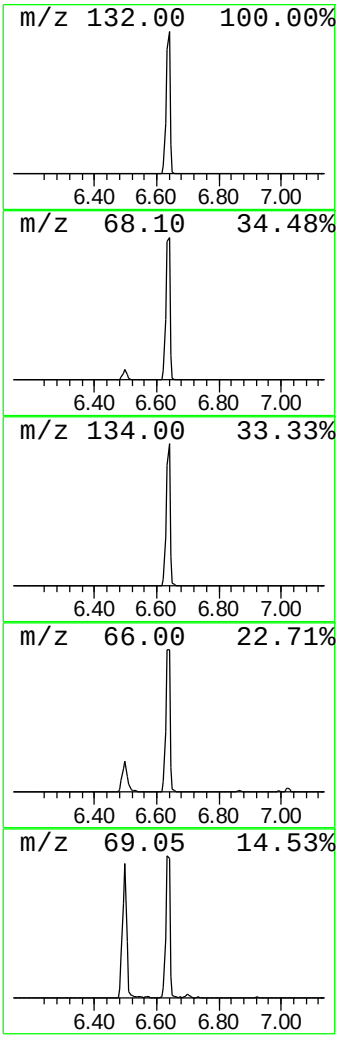
**********

Peak Number 2 Xenon Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.64 | 65.32 ng | 2366810 | 1,4-Dichlorobenzene-d4 | 6.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Xenon | 132 | Xe | 007440-63-3 | 50 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 25 |
| 3 | 1H-Benzimidazole, 2-methyl- | 132 | C8H8N2 | 000615-15-6 | 12 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



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**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

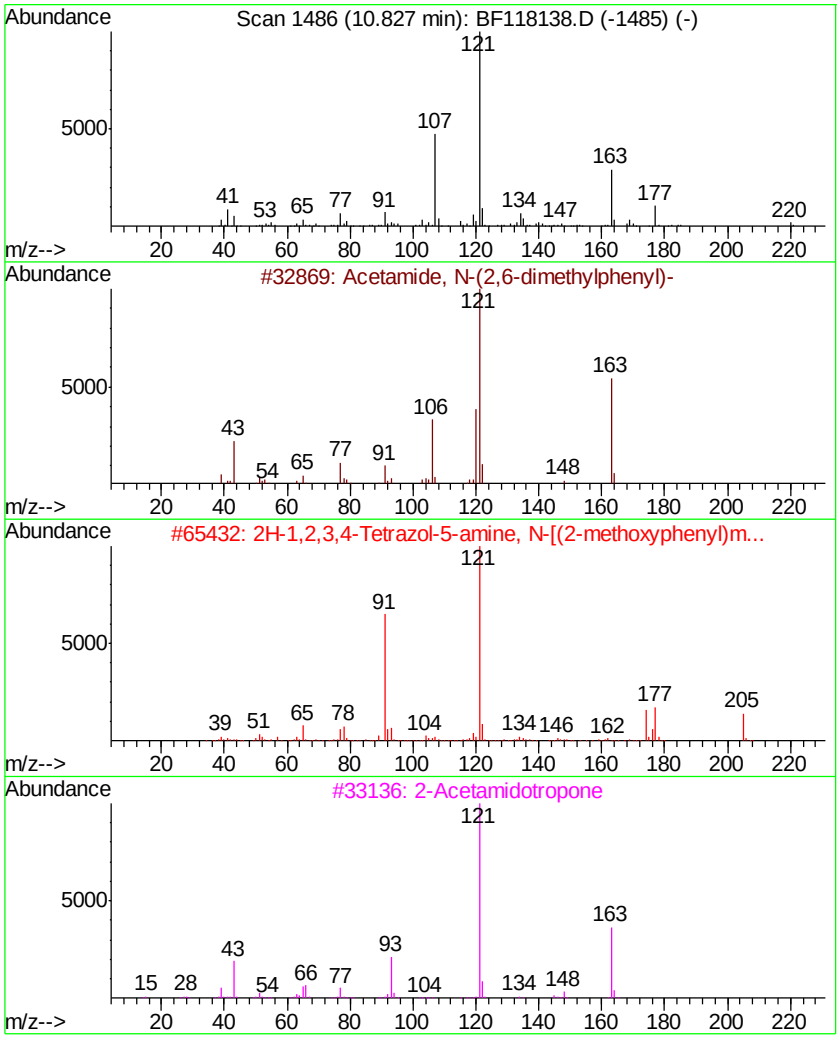
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

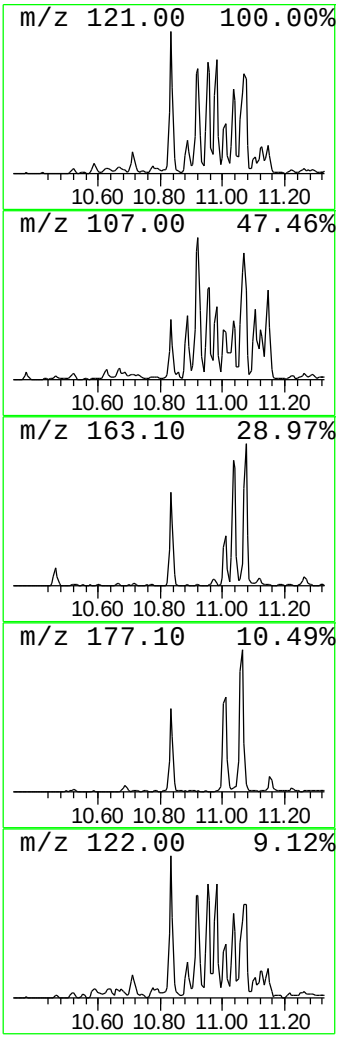
**********

Peak Number 4 Acetamide, N-(2,6-dimethylp... Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.83 | 14.51 ng | 763213 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(2,6-dimethylphenyl)- | 163 | C10H13NO | 002198-53-0 | 50 |
| 2 | 2H-1,2,3,4-Tetrazol-5-amine, N-[... | 205 | C9H11N5O | 1000337-56-1 | 47 |
| 3 | 2-Acetamidotropone | 163 | C9H9NO2 | 006422-12-4 | 47 |
| 4 | p-Sec-butylphenyl acetate | 192 | C12H16O2 | 003245-24-7 | 43 |
| 5 | Benorilate | 313 | C17H15NO5 | 005003-48-5 | 38 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

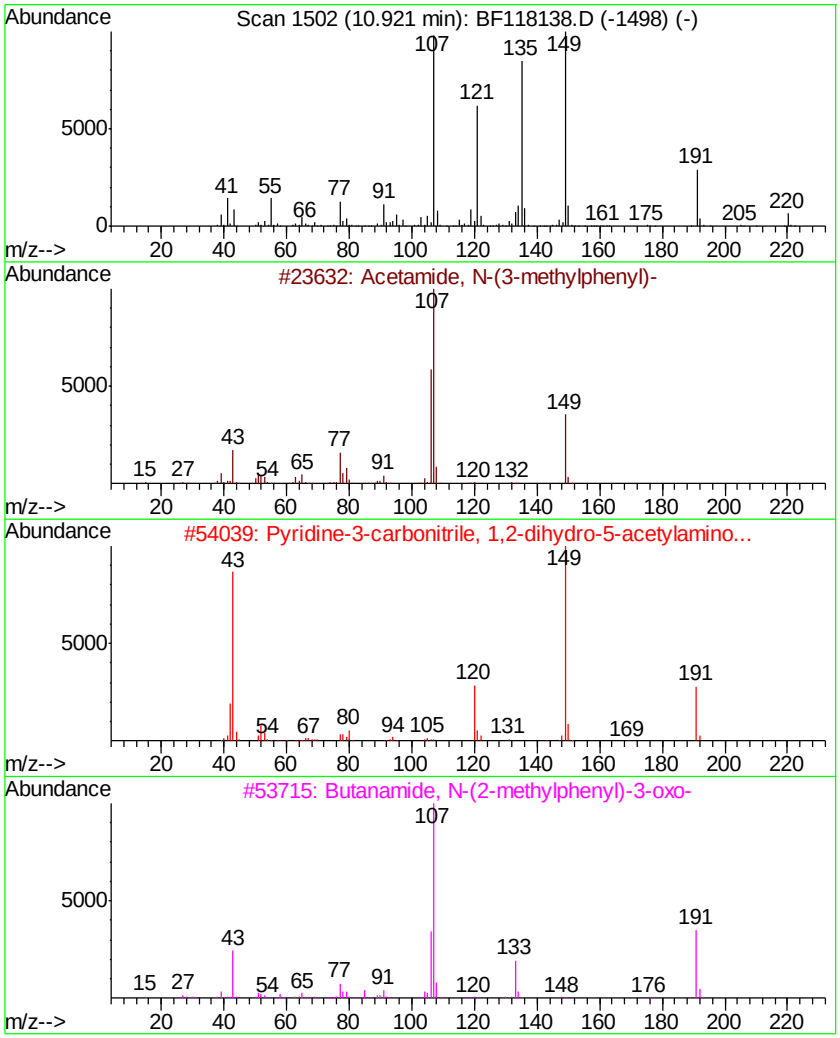
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

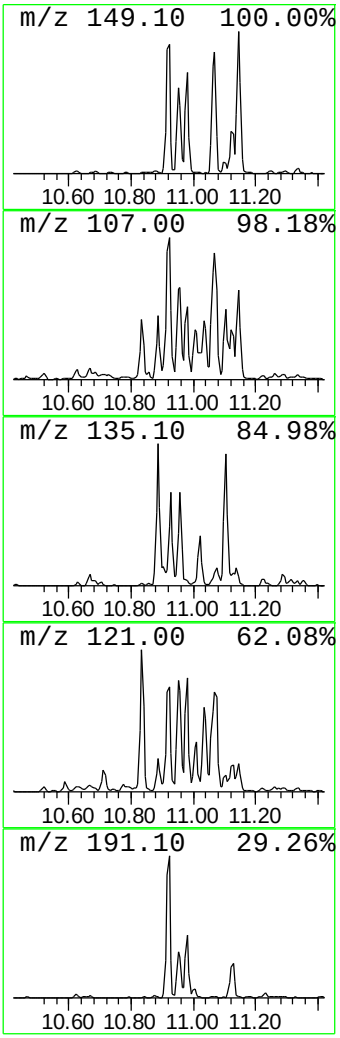
**********

Peak Number 6 unknown10.92 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.92 | 49.29 ng | 2592460 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetamide, N-(3-methylphenyl)- | 149 | C9H11NO | 000537-92-8 | 43 |
| 2 | Pyridine-3-carbonitrile, 1,2-dih... | 191 | C9H9N3O2 | 220098-92-0 | 30 |
| 3 | Butanamide, N-(2-methylphenyl)-3... | 191 | C11H13NO2 | 000093-68-5 | 25 |
| 4 | Phenol, 4-butyl- | 150 | C10H14O | 001638-22-8 | 18 |
| 5 | Benzestrol | 298 | C20H26O2 | 000085-95-0 | 18 |



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Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

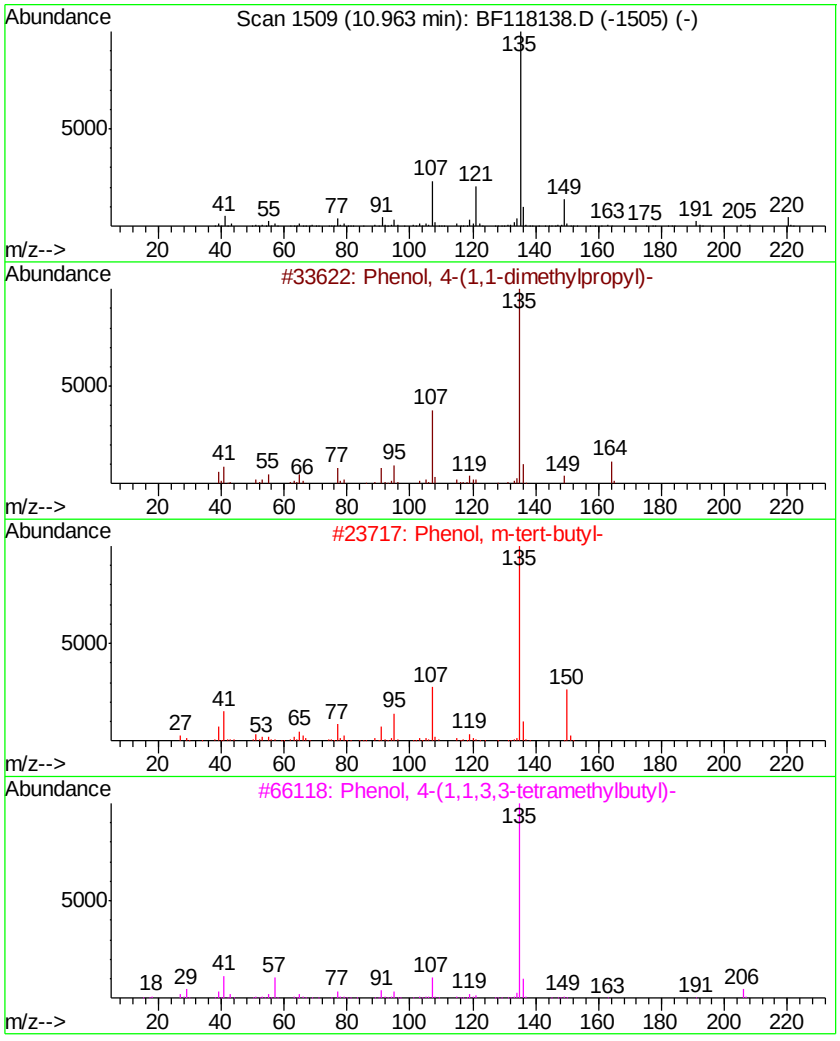
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

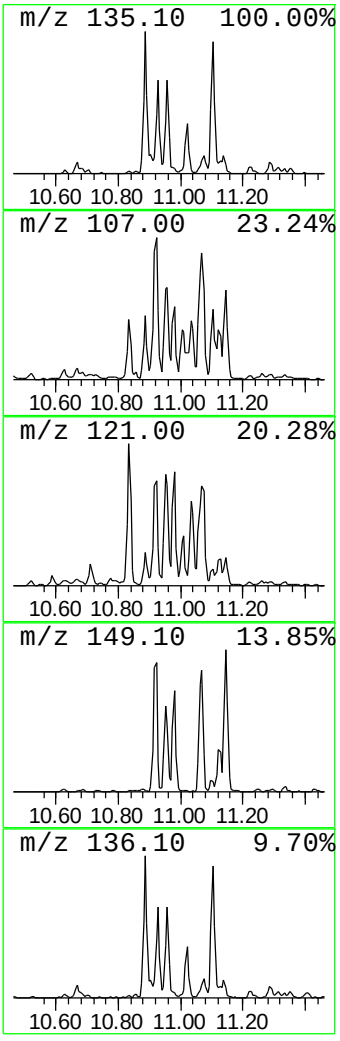
**********

Peak Number 7 Phenol, 4-(1,1-dimethylprop... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.96 | 35.30 ng | 1856730 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1-dimethylpropyl)- | 164 | C11H16O | 000080-46-6 | 64 |
| 2 | Phenol, m-tert-butyl- | 150 | C10H14O | 000585-34-2 | 58 |
| 3 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 53 |
| 4 | Pentanoic acid, 5-hydroxy-, p-t-... | 250 | C15H22O3 | 166273-37-6 | 53 |
| 5 | Hexestrol | 270 | C18H22O2 | 005635-50-7 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

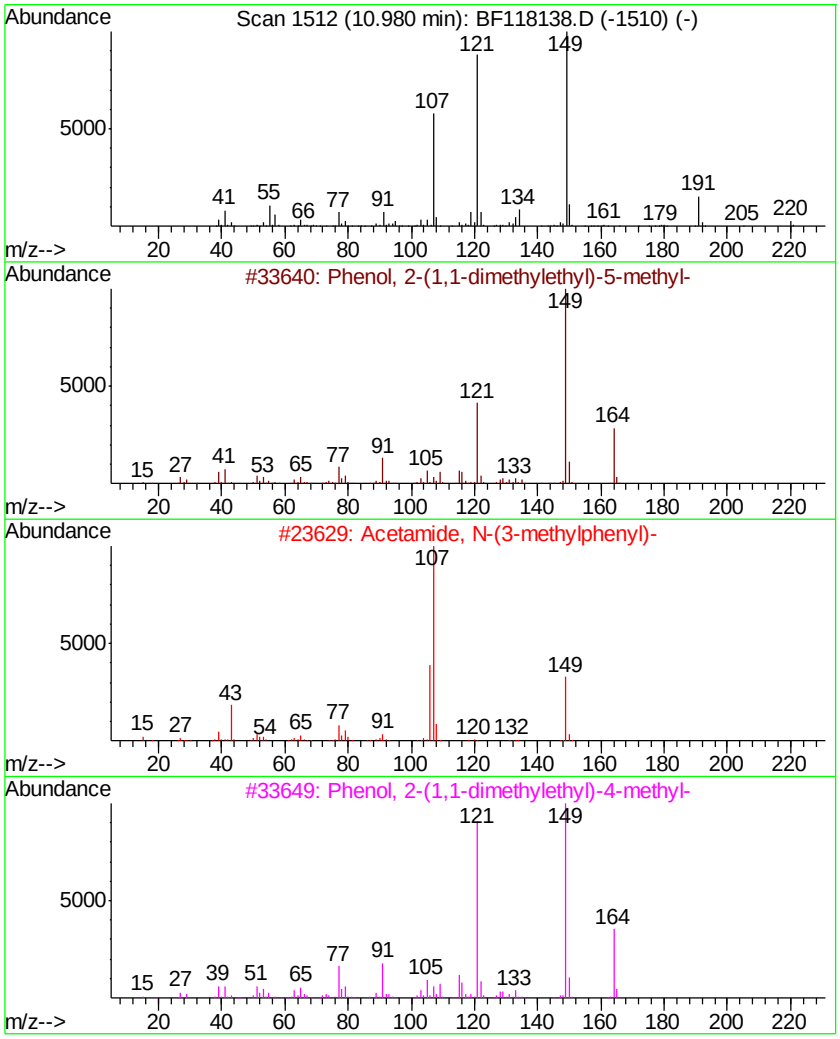
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

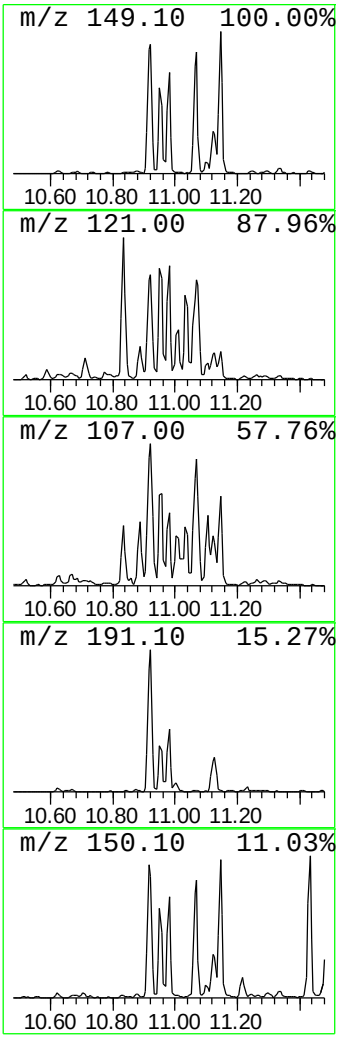
**********

Peak Number 8 Phenol, 2-(1,1-dimethylethy... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.98 | 17.33 ng | 911221 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 2-(1,1-dimethylethyl)-5-... | 164 | C11H16O | 000088-60-8 | 59 |
| 2 | Acetamide, N-(3-methylphenyl)- | 149 | C9H11NO | 000537-92-8 | 46 |
| 3 | Phenol, 2-(1,1-dimethylethyl)-4-... | 164 | C11H16O | 002409-55-4 | 45 |
| 4 | Acetamide, N-(2-methylphenyl)- | 149 | C9H11NO | 000120-66-1 | 38 |
| 5 | 1-(2,6-Dimethyl-4-propoxyphenyl)... | 220 | C14H20O2 | 1000190-22-3 | 35 |



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Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

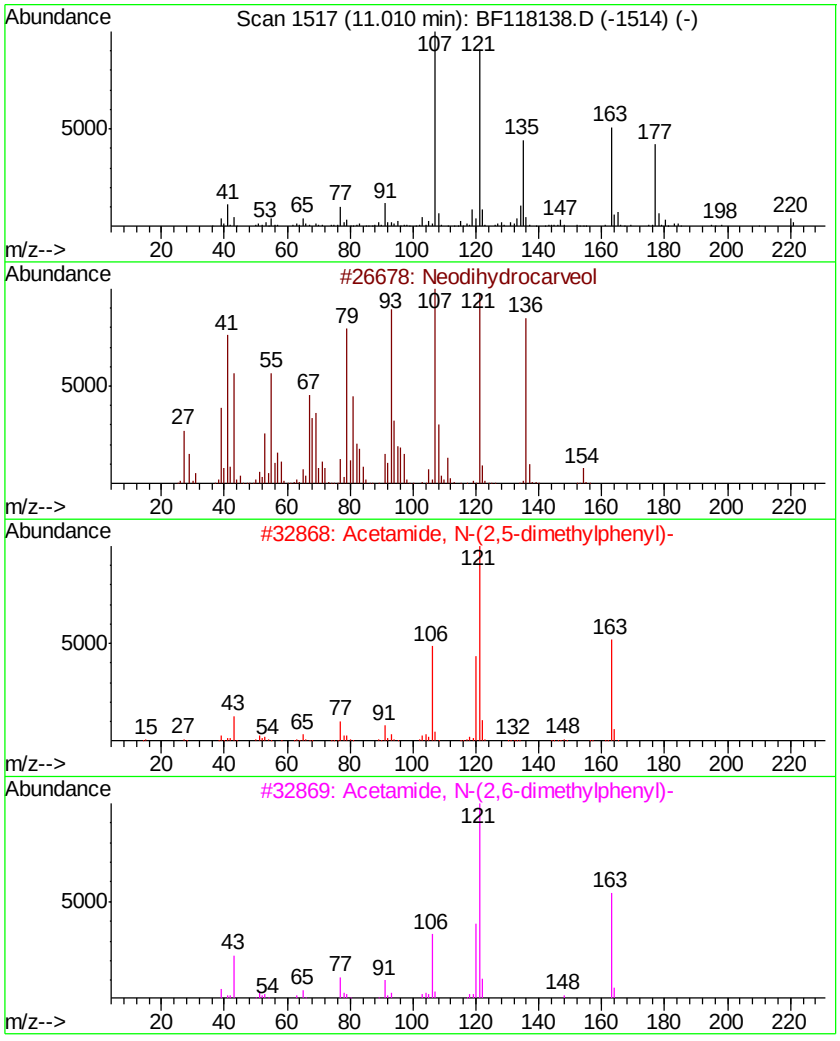
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

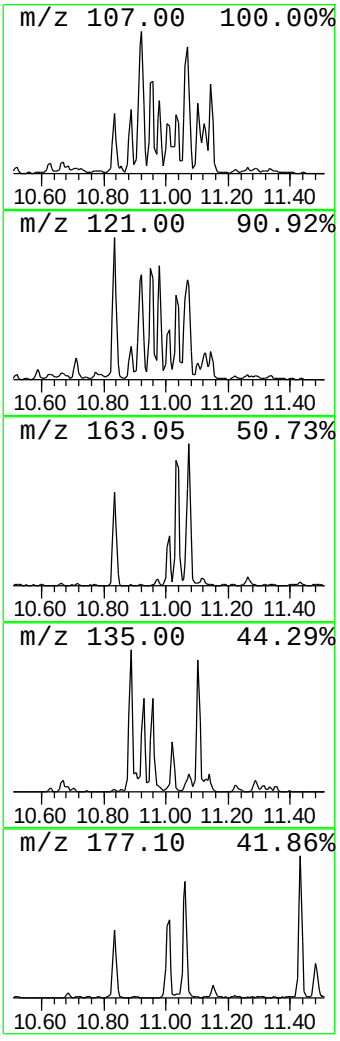
**********

Peak Number 9 unknown11.01 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.01 | 13.06 ng | 686608 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Neodihydrocarveol | 154 | C10H18O | 018675-34-8 | 38 |
| 2 | Acetamide, N-(2,5-dimethylphenyl)- | 163 | C10H13NO | 002050-44-4 | 30 |
| 3 | Acetamide, N-(2,6-dimethylphenyl)- | 163 | C10H13NO | 002198-53-0 | 30 |
| 4 | Propanamide, N-(3-methylphenyl)-... | 177 | C11H15NO | 1000307-32-0 | 30 |
| 5 | p-Propionotoluidide | 163 | C10H13NO | 002759-55-9 | 27 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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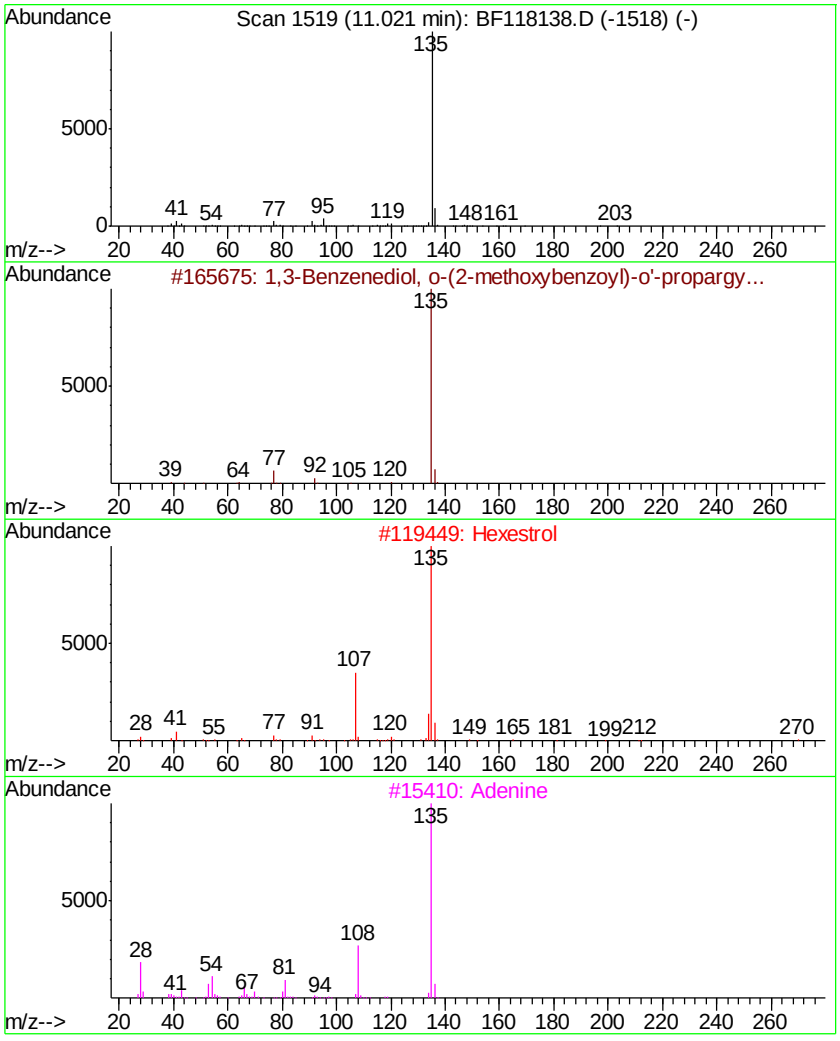
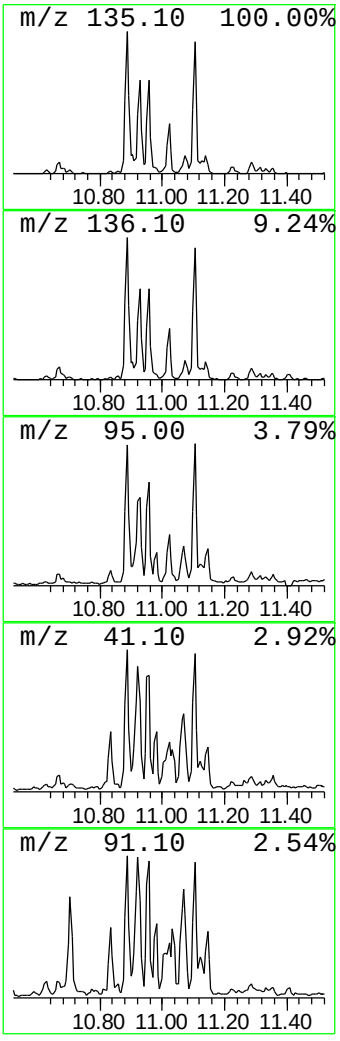
Peak Number 10 unknown11.02 Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.02 | 8.04 ng | 423067 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Benzenediol, o-(2-methoxyben... | 326 | C18H14O6 | 1000330-77-3 | 40 |
| 2 | Hexestrol | 270 | C18H22O2 | 000084-16-2 | 40 |
| 3 | Adenine | 135 | C5H5N5 | 000073-24-5 | 9 |
| 4 | Thioimidodicarbonic diamide | 135 | C2H5N3S2 | 000541-53-7 | 9 |
| 5 | 1,3-Benzenediol, o-(2-furoyl)-o'... | 338 | C19H14O6 | 1000330-77-5 | 9 |



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Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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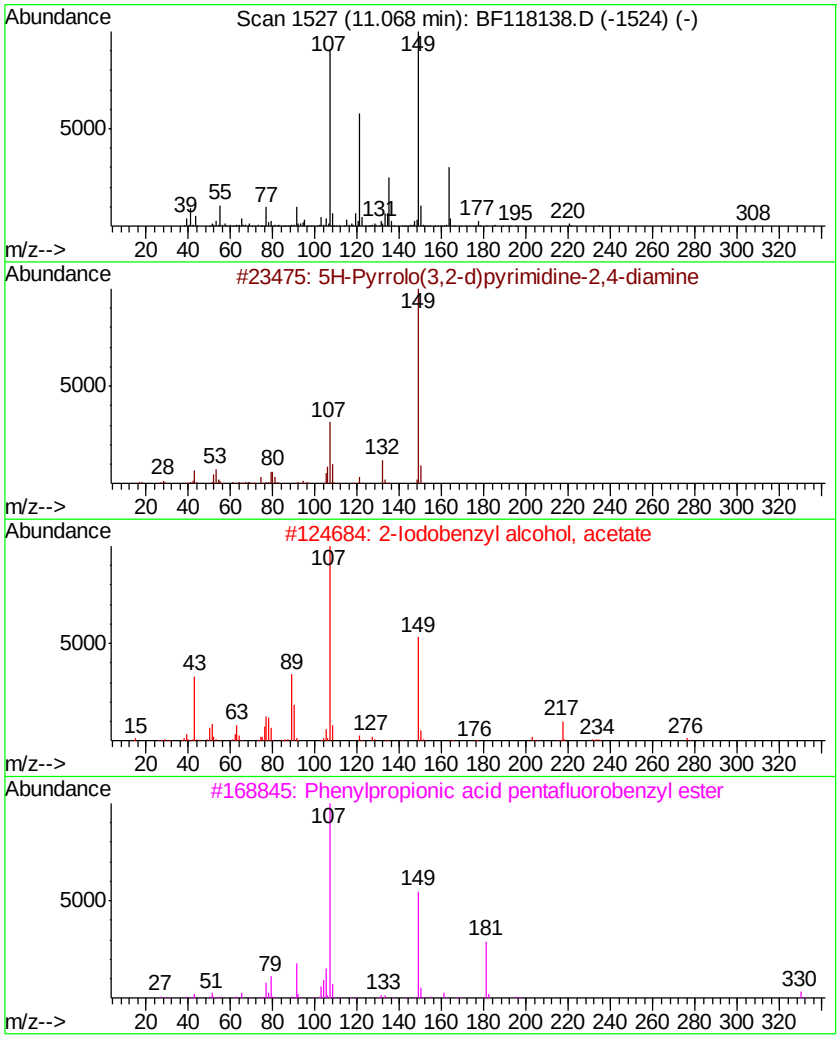
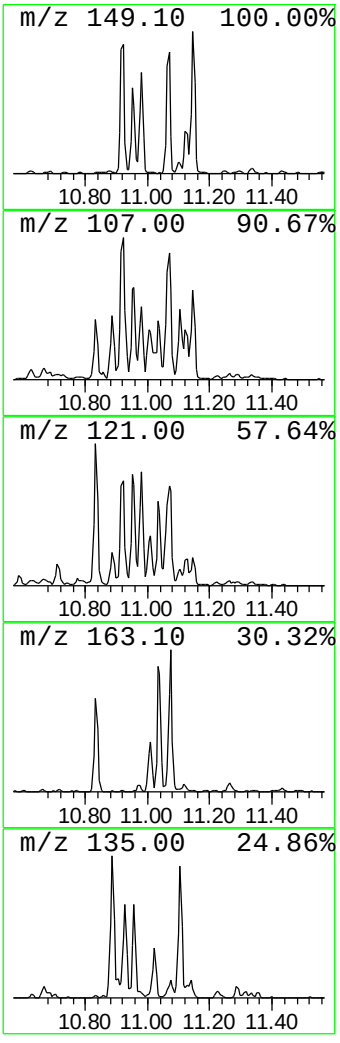
Peak Number 12 5H-Pyrrolo(3,2-d)pyrimidine... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.07 | 36.93 ng | 1942040 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5H-Pyrrolo(3,2-d)pyrimidine-2,4-... | 149 | C6H7N5 | 1000244-21-4 | 59 |
| 2 | 2-Iodobenzyl alcohol, acetate | 276 | C9H9IO2 | 1000364-47-1 | 53 |
| 3 | Phenylpropionic acid pentafluoro... | 330 | C16H11F5O2 | 062434-95-1 | 43 |
| 4 | p-Propionotoluidide | 163 | C10H13NO | 002759-55-9 | 38 |
| 5 | Phenol, 2-methyl-4-(1,1,3,3-tetr... | 220 | C15H24O | 002219-84-3 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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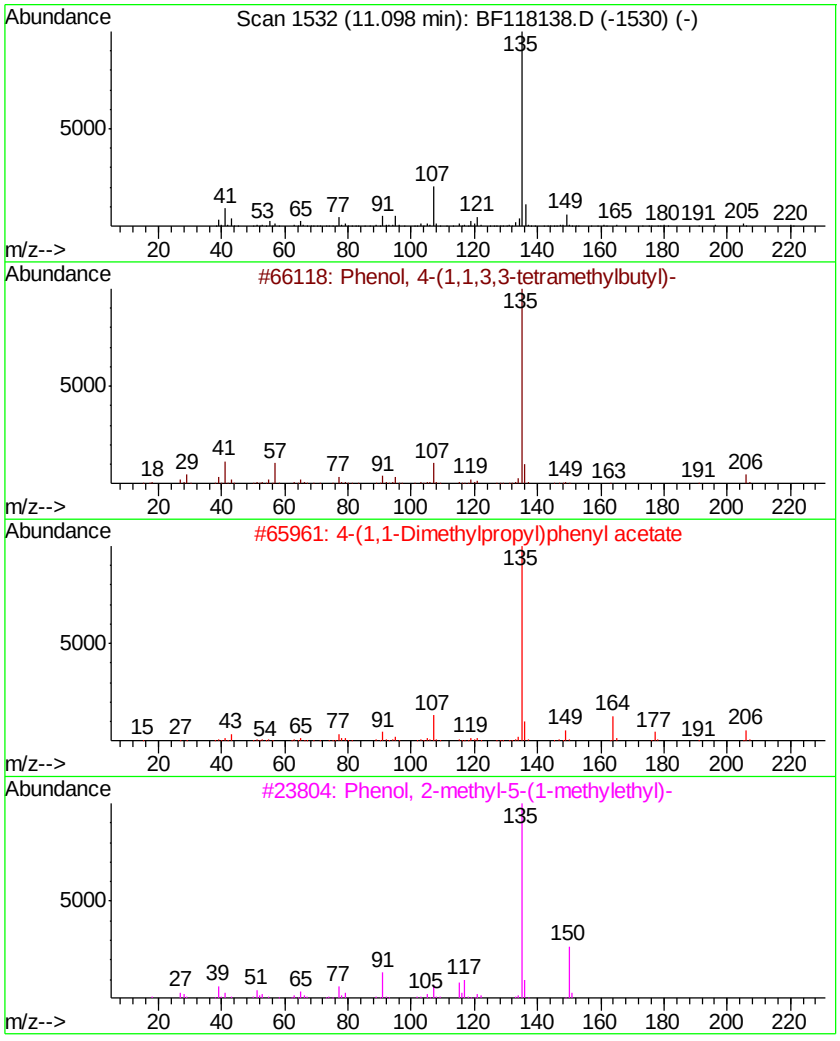
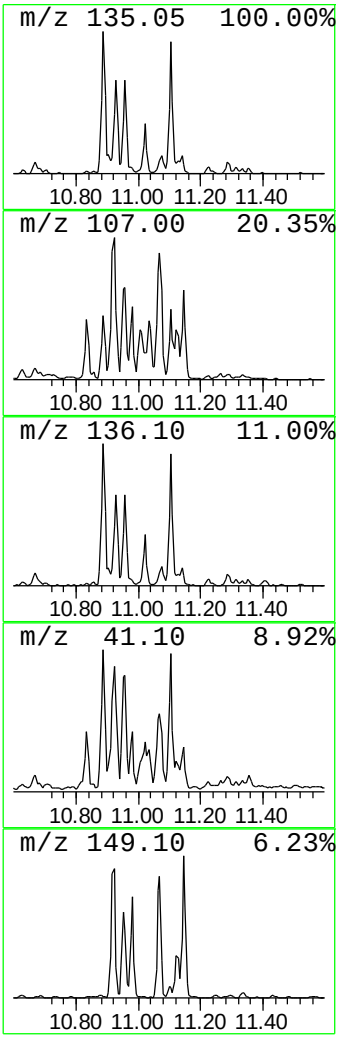
Peak Number 13 Phenol, 4-(1,1,3,3-tetramet... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.10 | 29.36 ng | 1544070 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 78 |
| 2 | 4-(1,1-Dimethylpropyl)phenyl ace... | 206 | C13H18O2 | 1000373-45-3 | 78 |
| 3 | Phenol, 2-methyl-5-(1-methylethyl)- | 150 | C10H14O | 000499-75-2 | 72 |
| 4 | Hexestrol | 270 | C18H22O2 | 000084-16-2 | 64 |
| 5 | Pentanoic acid, 5-hydroxy-, p-t-... | 250 | C15H22O3 | 166273-37-6 | 64 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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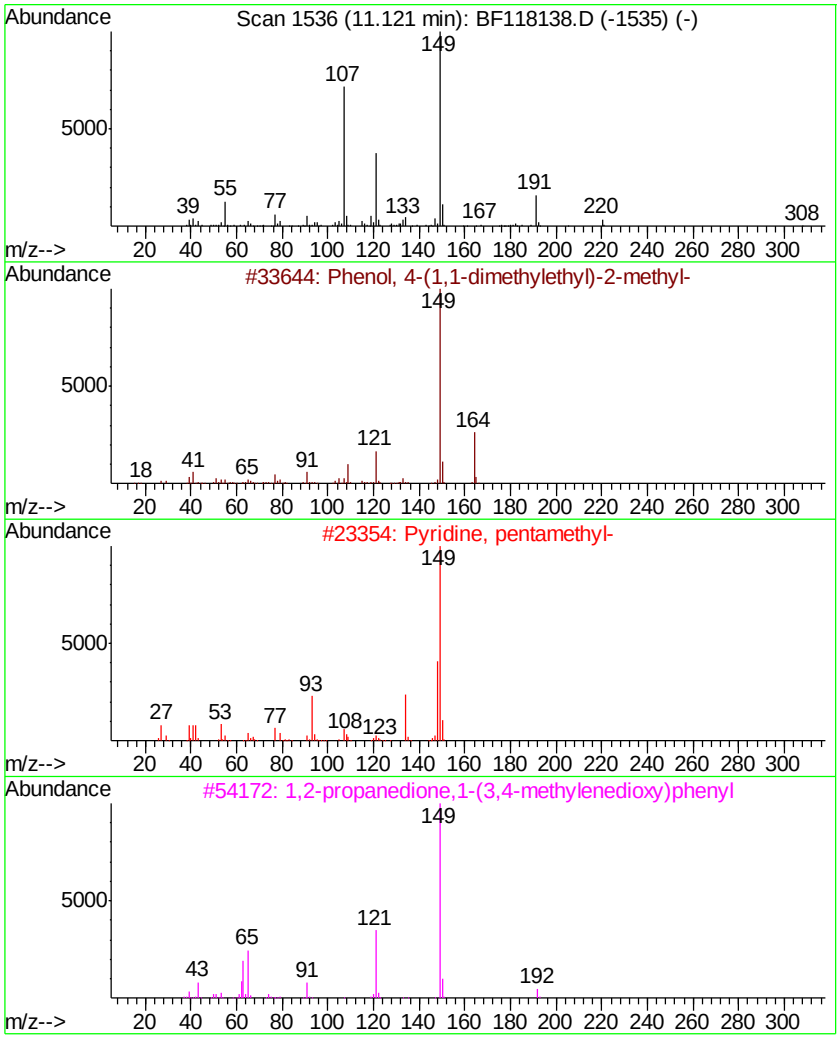
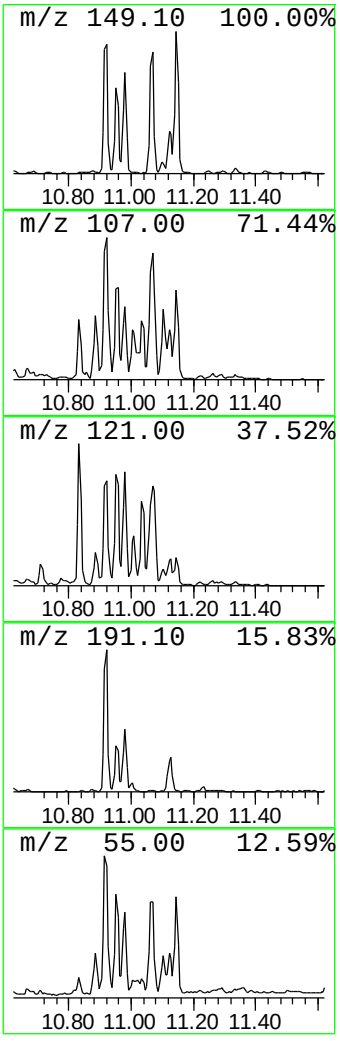
Peak Number 14 Phenol, 4-(1,1-dimethylethy... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.12 | 10.26 ng | 539450 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenol, 4-(1,1-dimethylethyl)-2-... | 164 | C11H16O | 000098-27-1 | 50 |
| 2 | Pyridine, pentamethyl- | 149 | C10H15N | 003748-83-2 | 49 |
| 3 | 1,2-propanedione,1-(3,4-methylen... | 192 | C10H8O4 | 1000378-93-0 | 47 |
| 4 | Phthalic acid, propyl tridec-2-y... | 386 | C24H34O4 | 1000315-43-6 | 47 |
| 5 | Phthalic acid, 5-methylhex-2-yl ... | 306 | C18H26O4 | 1000371-09-2 | 47 |



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Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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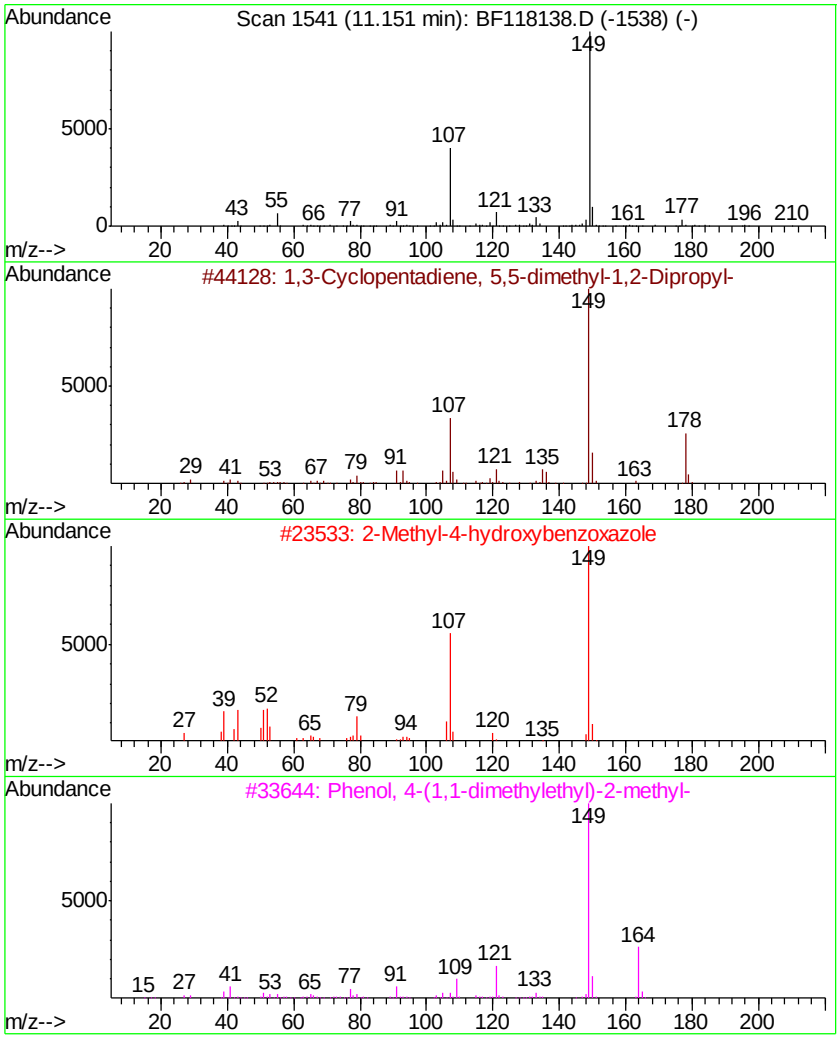
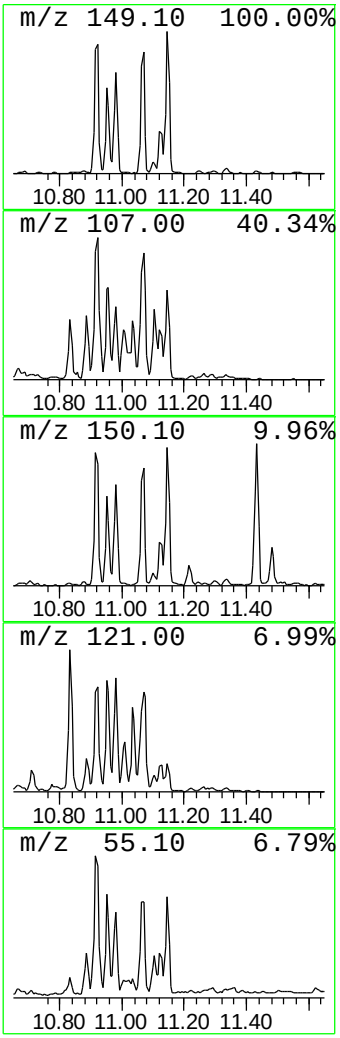
Peak Number 15 1,3-Cyclopentadiene, 5,5-di... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.15 | 18.31 ng | 962893 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Cyclopentadiene, 5,5-dimethy... | 178 | C13H22 | 1000163-88-0 | 64 |
| 2 | 2-Methyl-4-hydroxybenzoxazole | 149 | C8H7NO2 | 051110-60-2 | 56 |
| 3 | Phenol, 4-(1,1-dimethylethyl)-2-... | 164 | C11H16O | 000098-27-1 | 40 |
| 4 | 2-t-Butyl-5-[hydroxy-(2,4,6-trim... | 306 | C18H26O4 | 092572-63-9 | 40 |
| 5 | Phthalic acid, 8-chlorooctyl eth... | 340 | C18H25ClO4 | 1000356-85-6 | 38 |



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Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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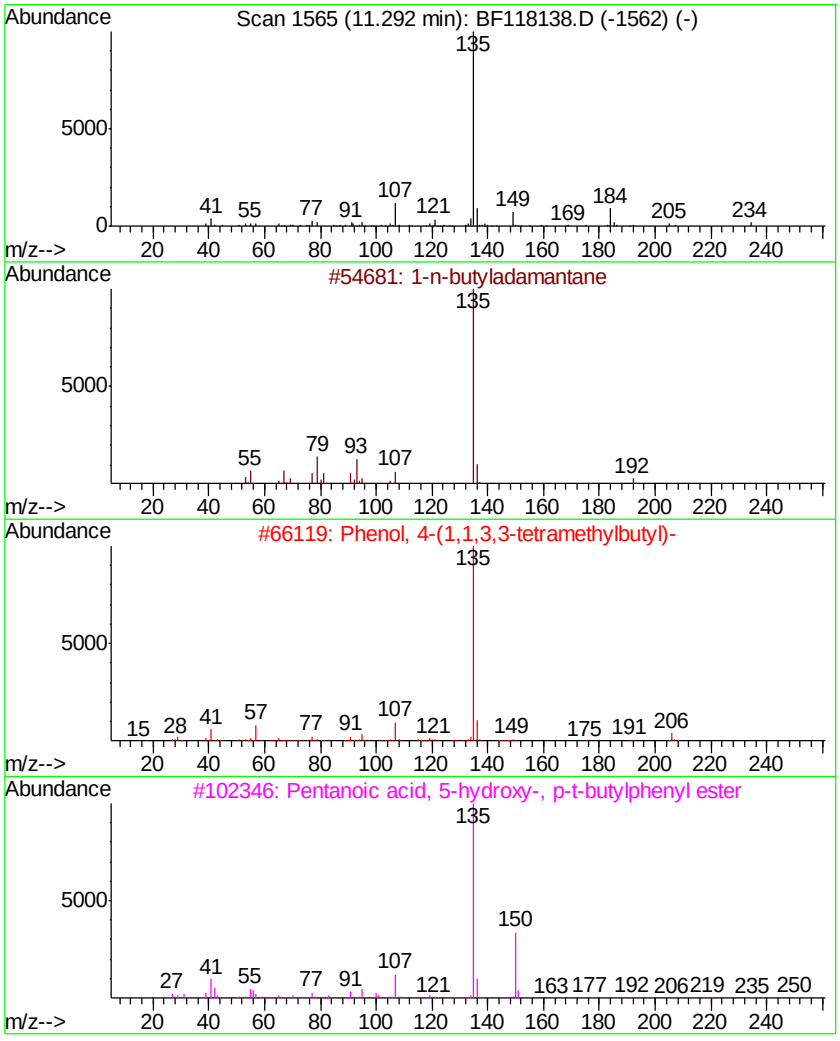
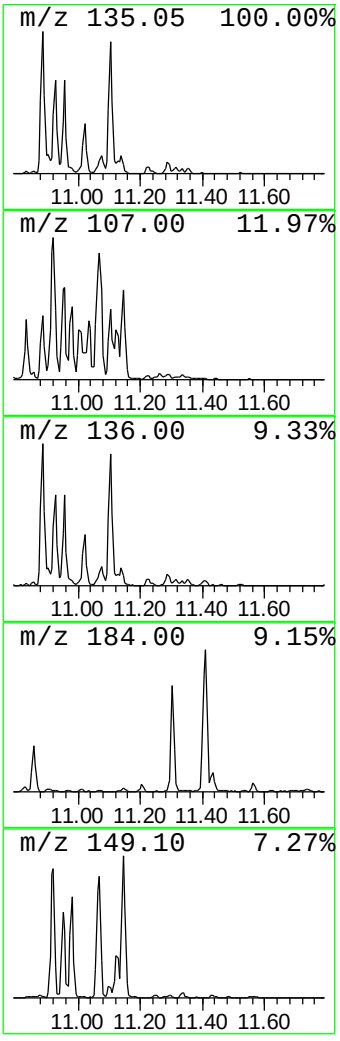
Peak Number 16 1-n-butyladamantane Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.29 | 5.88 ng | 309482 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-n-butyladamantane | 192 | C14H24 | 014449-41-3 | 78 |
| 2 | Phenol, 4-(1,1,3,3-tetramethylbu... | 206 | C14H22O | 000140-66-9 | 72 |
| 3 | Pentanoic acid, 5-hydroxy-, p-t-... | 250 | C15H22O3 | 166273-37-6 | 56 |
| 4 | Carbamic acid, N-[1,1-bis(triflu... | 413 | C19H25F6NO2 | 296242-69-8 | 56 |
| 5 | 2-(2-Adamantan-1-yl-2-oxo-ethyl)... | 242 | C15H18N2O | 1000296-74-8 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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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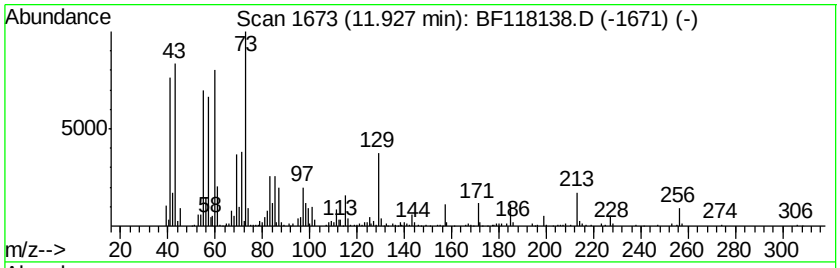
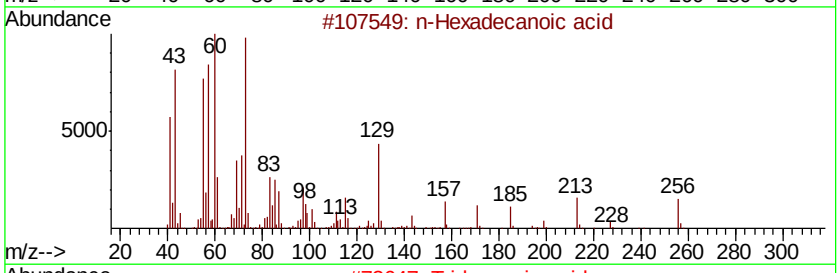
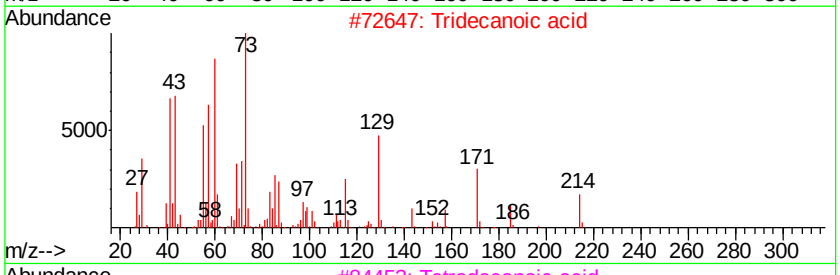
Peak Number 17 n-Hexadecanoic acid Concentration Rank 11

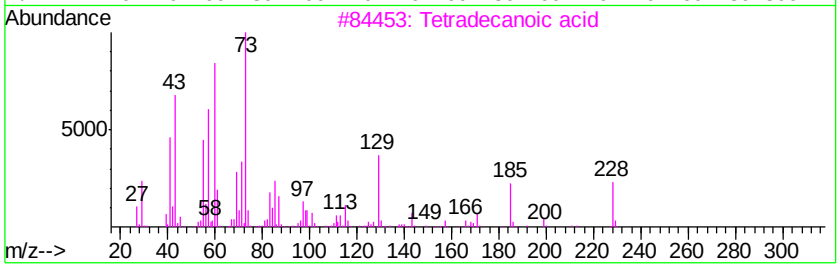
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 16.27 ng | 855842 | Phenanthrene-d10 | 11.41 |

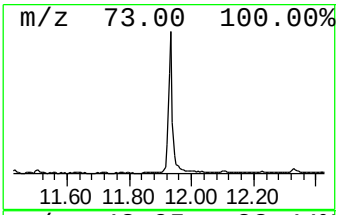
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 99 |
| 2 | Tridecanoic acid | 214 | C13H26O2 | 000638-53-9 | 92 |
| 3 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 91 |
| 4 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 91 |
| 5 | n-Decanoic acid | 172 | C10H20O2 | 000334-48-5 | 76 |

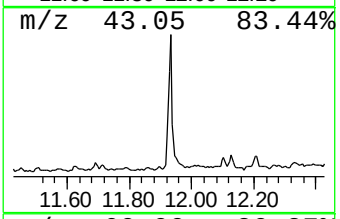


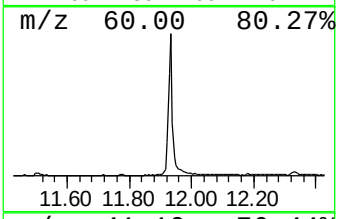



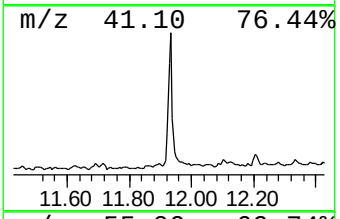



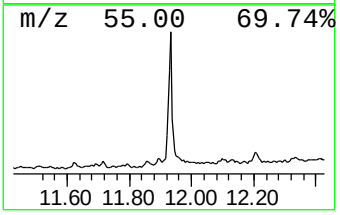



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

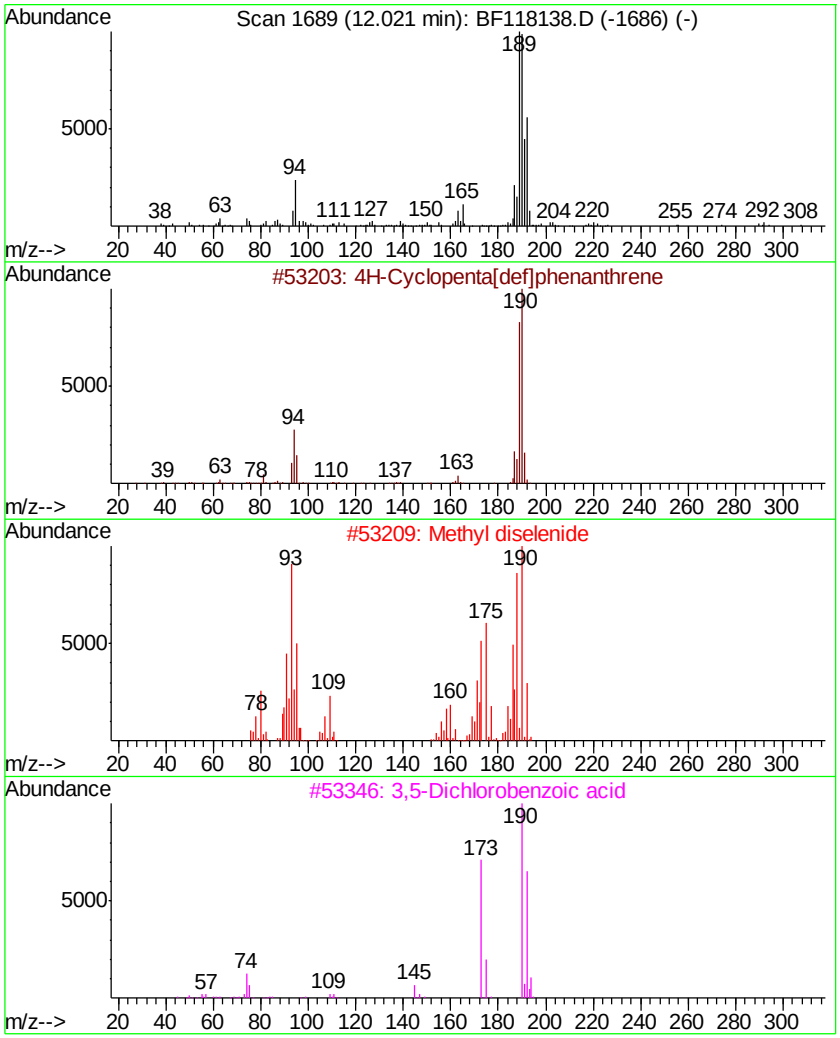
Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

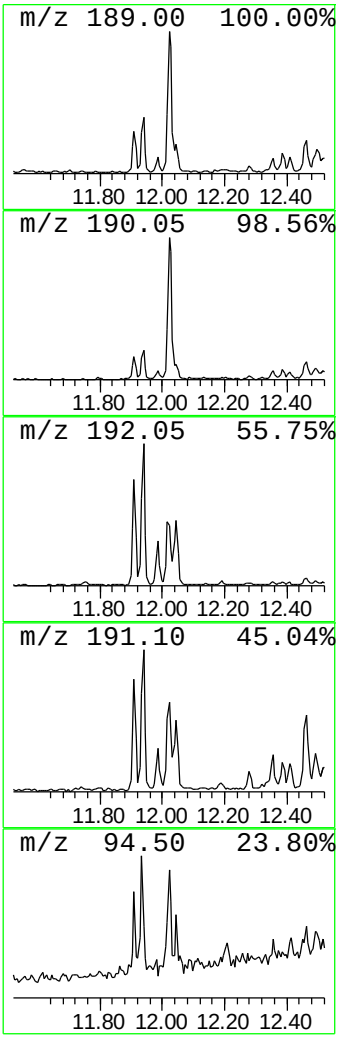
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 4H-Cyclopenta[def]phenanthrene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 4.68 ng | 246008 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | Methyl diselenide | 190 | C2H6Se2 | 007101-31-7 | 45 |
| 3 | 3,5-Dichlorobenzoic acid | 190 | C7H4Cl2O2 | 000051-36-5 | 27 |
| 4 | Benzene, 1,1'-(1,2-propadienylid... | 192 | C15H12 | 014251-57-1 | 22 |
| 5 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 20 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

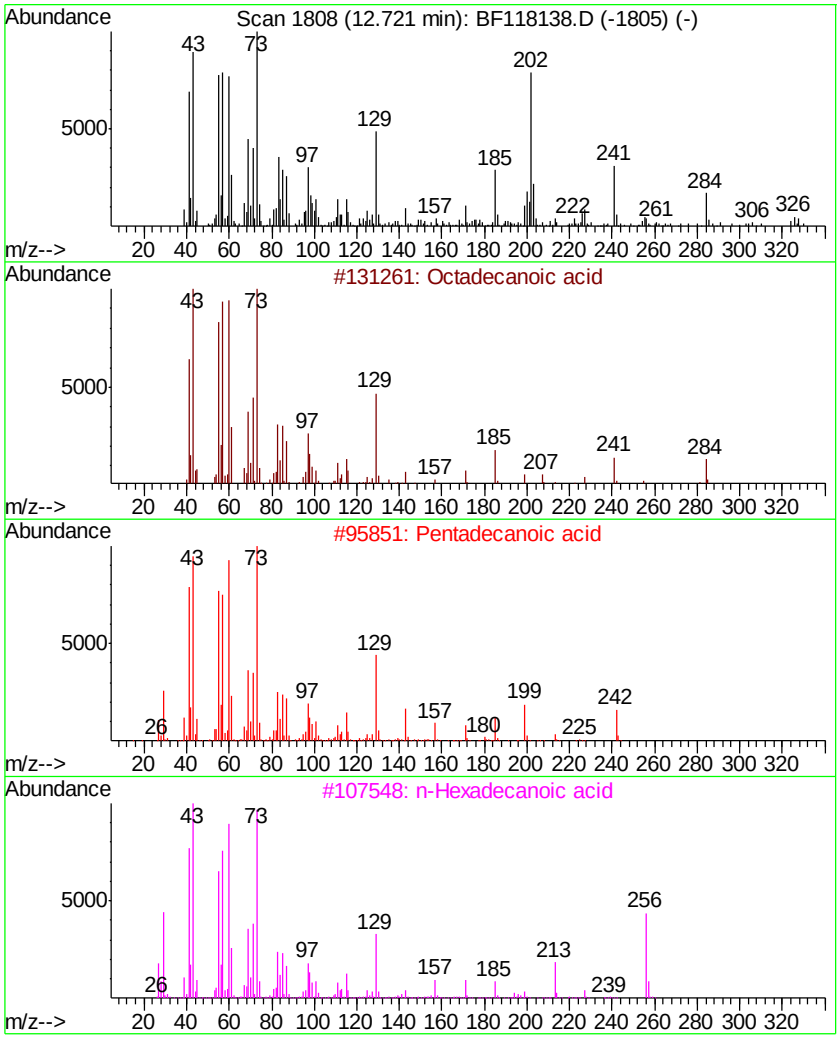
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

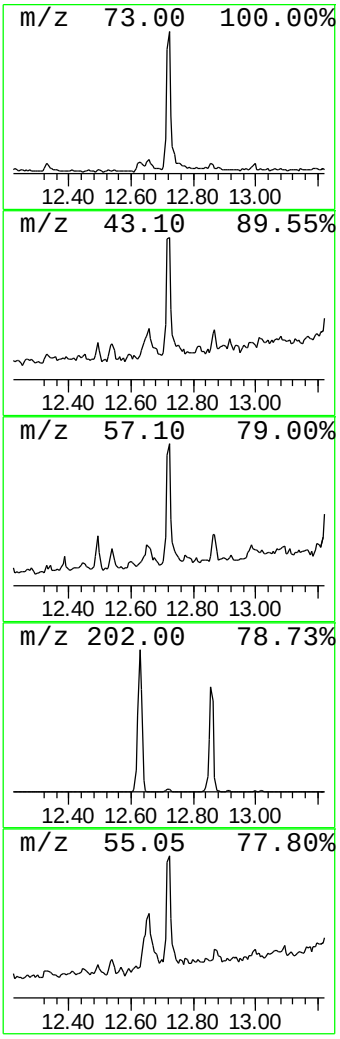
**********

Peak Number 19 Octadecanoic acid Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.72 | 9.67 ng | 508417 | Phenanthrene-d10 | 11.41 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octadecanoic acid | 284 | C18H36O2 | 000057-11-4 | 99 |
| 2 | Pentadecanoic acid | 242 | C15H30O2 | 001002-84-2 | 70 |
| 3 | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 64 |
| 4 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 58 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 46 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

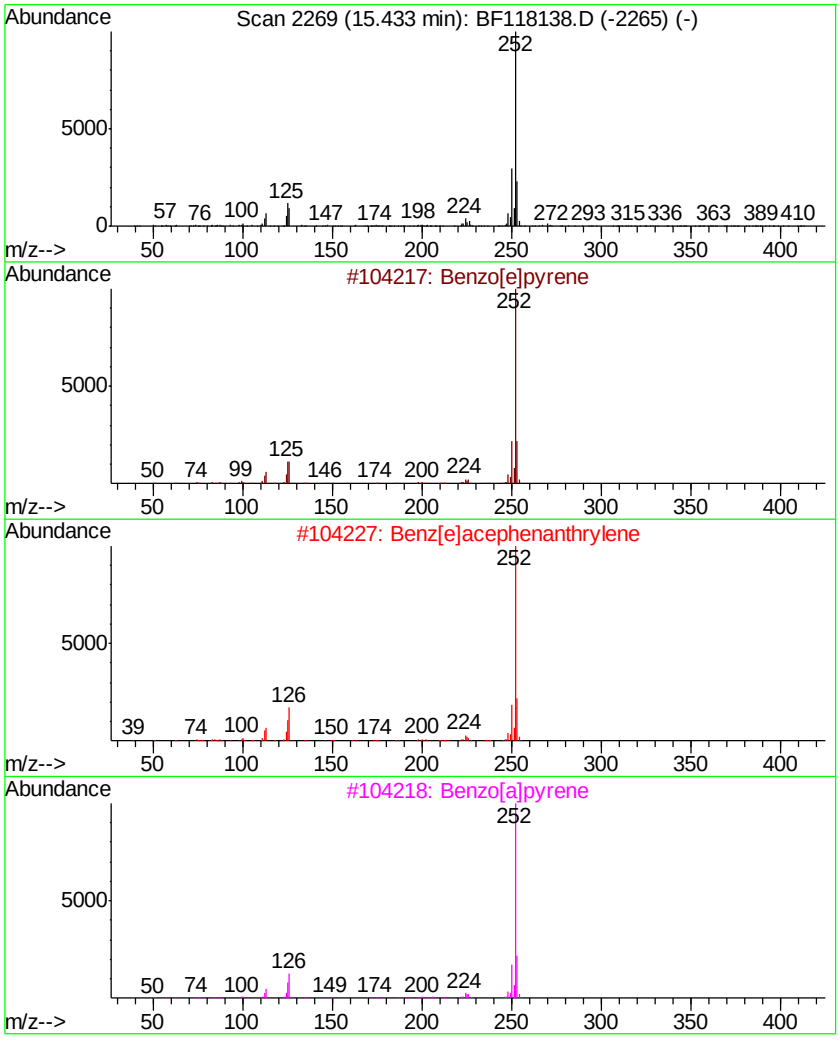
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

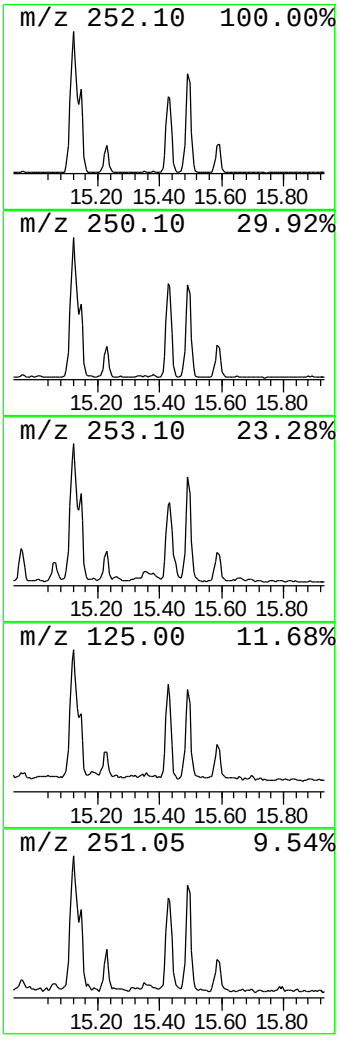
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.43 | 26.86 ng | 722840 | Perylene-d12 | 15.56 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 99 |
| 2 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 97 |
| 3 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 97 |
| 4 | Benzo[j]fluoranthene | 252 | C20H12 | 000205-82-3 | 96 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF120719\
Data File : BF118138.D
Acq On : 7 Dec 2019 19:26
Operator : JU
Sample : K6147-07
Misc :
ALS Vial : 19 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** P001-WC007

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF120619.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 | 11.0 | ng | 398232 | 1 | 6.87 | 724626 | 20.0 |
| Xenon | 6.64 | 65.3 | ng | 2366810 | 1 | 6.87 | 724626 | 20.0 |
| Acetamide, N-(2,6... | 10.83 | 14.5 | ng | 763213 | 4 | 11.41 | 1051830 | 20.0 |
| unknown10.92 | 10.92 | 49.3 | ng | 2592460 | 4 | 11.41 | 1051830 | 20.0 |
| Phenol, 4-(1,1-di... | 10.96 | 35.3 | ng | 1856730 | 4 | 11.41 | 1051830 | 20.0 |
| Phenol, 2-(1,1-di... | 10.98 | 17.3 | ng | 911221 | 4 | 11.41 | 1051830 | 20.0 |
| unknown11.01 | 11.01 | 13.1 | ng | 686608 | 4 | 11.41 | 1051830 | 20.0 |
| unknown11.02 | 11.02 | 8.0 | ng | 423067 | 4 | 11.41 | 1051830 | 20.0 |
| 5H-Pyrrolo(3,2-d)... | 11.07 | 36.9 | ng | 1942040 | 4 | 11.41 | 1051830 | 20.0 |
| Phenol, 4-(1,1,3,... | 11.10 | 29.4 | ng | 1544070 | 4 | 11.41 | 1051830 | 20.0 |
| Phenol, 4-(1,1-di... | 11.12 | 10.3 | ng | 539450 | 4 | 11.41 | 1051830 | 20.0 |
| 1,3-Cyclopentadie... | 11.15 | 18.3 | ng | 962893 | 4 | 11.41 | 1051830 | 20.0 |
| 1-n-butyladamantane | 11.29 | 5.9 | ng | 309482 | 4 | 11.41 | 1051830 | 20.0 |
| n-Hexadecanoic acid | 11.93 | 16.3 | ng | 855842 | 4 | 11.41 | 1051830 | 20.0 |
| 4H-Cyclopenta[def... | 12.02 | 4.7 | ng | 246008 | 4 | 11.41 | 1051830 | 20.0 |
| Octadecanoic acid | 12.72 | 9.7 | ng | 508417 | 4 | 11.41 | 1051830 | 20.0 |
| Benzo[e]pyrene | 15.43 | 26.9 | ng | 722840 | 6 | 15.56 | 538210 | 20.0 |