LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

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-BF101819.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 | 4.916 | 478 | 481 | 493 | rBV | 79649 | 124187 | 15.37% | 1.043% |
| 2 | 5.357 | 553 | 556 | 582 | rBV | 451408 | 647107 | 80.09% | 5.435% |
| 3 | 6.386 | 727 | 731 | 748 | rBV | 526095 | 749625 | 92.77% | 6.297% |
| 4 | 6.504 | 748 | 751 | 766 | rVB | 830946 | 803913 | 99.49% | 6.753% |
| 5 | 6.728 | 786 | 789 | 799 | rBV | 252166 | 234722 | 29.05% | 1.972% |
| 6 | 6.881 | 812 | 815 | 831 | rBV | 641235 | 591993 | 73.26% | 4.972% |
| 7 | 7.292 | 882 | 885 | 908 | rBV | 358505 | 479512 | 59.34% | 4.028% |
| 8 | 8.010 | 1003 | 1007 | 1030 | rBV | 263872 | 324859 | 40.20% | 2.729% |
| 9 | 9.080 | 1185 | 1189 | 1199 | rBV | 869026 | 808022 | 100.00% | 6.787% |
| 10 | 9.480 | 1254 | 1257 | 1263 | rBV | 111075 | 106296 | 13.16% | 0.893% |
| 11 | 9.757 | 1301 | 1304 | 1308 | rBV | 348622 | 350042 | 43.32% | 2.940% |
| 12 | 9.792 | 1308 | 1310 | 1319 | rVB | 33334 | 35244 | 4.36% | 0.296% |
| 13 | 9.975 | 1337 | 1341 | 1345 | rBV2 | 11782 | 14952 | 1.85% | 0.126% |
| 14 | 10.316 | 1395 | 1399 | 1405 | rBV | 23822 | 28362 | 3.51% | 0.238% |
| 15 | 10.557 | 1436 | 1440 | 1454 | rBV | 437344 | 466167 | 57.69% | 3.916% |
| 16 | 10.863 | 1487 | 1492 | 1494 | rBV2 | 9560 | 10471 | 1.30% | 0.088% |
| 17 | 11.069 | 1525 | 1527 | 1530 | rBV | 13308 | 11119 | 1.38% | 0.093% |
| 18 | 11.104 | 1530 | 1533 | 1536 | rVV2 | 10713 | 11413 | 1.41% | 0.096% |
| 19 | 11.145 | 1537 | 1540 | 1544 | rVB | 19307 | 18736 | 2.32% | 0.157% |
| 20 | 11.251 | 1554 | 1558 | 1559 | rBV | 336161 | 311597 | 38.56% | 2.617% |
| 21 | 11.274 | 1559 | 1562 | 1567 | rVV | 496627 | 467200 | 57.82% | 3.924% |
| 22 | 11.327 | 1567 | 1571 | 1576 | rVB | 89047 | 91188 | 11.29% | 0.766% |
| 23 | 11.492 | 1595 | 1599 | 1604 | rBV2 | 35370 | 49167 | 6.08% | 0.413% |
| 24 | 11.539 | 1604 | 1607 | 1610 | rVB2 | 11925 | 11473 | 1.42% | 0.096% |
| 25 | 11.710 | 1633 | 1636 | 1639 | rBV3 | 7282 | 9867 | 1.22% | 0.083% |
| 26 | 11.751 | 1639 | 1643 | 1645 | rVV | 72144 | 67766 | 8.39% | 0.569% |
| 27 | 11.780 | 1645 | 1648 | 1654 | rVV2 | 126241 | 144787 | 17.92% | 1.216% |
| 28 | 11.827 | 1654 | 1656 | 1659 | rVV | 30867 | 32402 | 4.01% | 0.272% |
| 29 | 11.863 | 1659 | 1662 | 1664 | rVV | 97678 | 102000 | 12.62% | 0.857% |
| 30 | 11.886 | 1664 | 1666 | 1673 | rVB | 48871 | 49191 | 6.09% | 0.413% |
| 31 | 12.045 | 1690 | 1693 | 1698 | rVB | 41242 | 37710 | 4.67% | 0.317% |
| 32 | 12.092 | 1698 | 1701 | 1704 | rBV | 23683 | 22636 | 2.80% | 0.190% |
| 33 | 12.192 | 1714 | 1718 | 1721 | rBV | 15500 | 14136 | 1.75% | 0.119% |
| 34 | 12.298 | 1733 | 1736 | 1739 | rBV | 41161 | 40129 | 4.97% | 0.337% |

LSC Area Percent Report

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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.339 | 1739 | 1743 | 1745 | rVV4 | 22617 | 33153 | 4.10% | 0.278% |
| 36 | 12.398 | 1749 | 1753 | 1760 | rVB3 | 24441 | 37445 | 4.63% | 0.315% |
| 37 | 12.463 | 1760 | 1764 | 1770 | rBV | 529863 | 505591 | 62.57% | 4.247% |
| 38 | 12.527 | 1773 | 1775 | 1778 | rVV4 | 11643 | 11356 | 1.41% | 0.095% |
| 39 | 12.563 | 1778 | 1781 | 1787 | rVB5 | 11293 | 16956 | 2.10% | 0.142% |
| 40 | 12.616 | 1787 | 1790 | 1793 | rBV | 28819 | 27161 | 3.36% | 0.228% |
| 41 | 12.692 | 1797 | 1803 | 1808 | rVV | 475677 | 538977 | 66.70% | 4.527% |
| 42 | 12.745 | 1809 | 1812 | 1817 | rVB3 | 24120 | 29162 | 3.61% | 0.245% |
| 43 | 12.827 | 1822 | 1826 | 1830 | rVV | 748324 | 667036 | 82.55% | 5.603% |
| 44 | 12.863 | 1831 | 1832 | 1836 | rVB | 17651 | 16335 | 2.02% | 0.137% |
| 45 | 12.915 | 1836 | 1841 | 1846 | rBV4 | 32166 | 55824 | 6.91% | 0.469% |
| 46 | 12.998 | 1852 | 1855 | 1856 | rBV2 | 21947 | 21174 | 2.62% | 0.178% |
| 47 | 13.021 | 1856 | 1859 | 1862 | rVB2 | 43358 | 51157 | 6.33% | 0.430% |
| 48 | 13.086 | 1868 | 1870 | 1873 | rBV | 21689 | 17082 | 2.11% | 0.143% |
| 49 | 13.127 | 1873 | 1877 | 1881 | rBV2 | 44308 | 56219 | 6.96% | 0.472% |
| 50 | 13.221 | 1890 | 1893 | 1896 | rBV | 30377 | 28003 | 3.47% | 0.235% |
| 51 | 13.251 | 1896 | 1898 | 1904 | rVB2 | 27739 | 31990 | 3.96% | 0.269% |
| 52 | 13.510 | 1939 | 1942 | 1945 | rBV5 | 8435 | 9817 | 1.21% | 0.082% |
| 53 | 13.545 | 1945 | 1948 | 1954 | rVB | 32897 | 39208 | 4.85% | 0.329% |
| 54 | 13.645 | 1960 | 1965 | 1967 | rBV2 | 37585 | 48522 | 6.01% | 0.408% |
| 55 | 13.663 | 1967 | 1968 | 1971 | rVB | 36598 | 27164 | 3.36% | 0.228% |
| 56 | 13.698 | 1971 | 1974 | 1976 | rBV | 24786 | 26863 | 3.32% | 0.226% |
| 57 | 13.733 | 1976 | 1980 | 1982 | rBV4 | 50561 | 71128 | 8.80% | 0.597% |
| 58 | 13.815 | 1989 | 1994 | 1996 | rBV4 | 9239 | 15350 | 1.90% | 0.129% |
| 59 | 13.892 | 2002 | 2007 | 2010 | rBV2 | 354060 | 509935 | 63.11% | 4.283% |
| 60 | 13.921 | 2010 | 2012 | 2019 | rVB | 195349 | 187469 | 23.20% | 1.575% |
| 61 | 14.004 | 2023 | 2026 | 2029 | rVB | 28972 | 29585 | 3.66% | 0.249% |
| 62 | 14.062 | 2033 | 2036 | 2041 | rBV6 | 19274 | 26412 | 3.27% | 0.222% |
| 63 | 14.133 | 2046 | 2048 | 2051 | rVB2 | 14580 | 11433 | 1.41% | 0.096% |
| 64 | 14.245 | 2065 | 2067 | 2069 | rBV2 | 11413 | 9972 | 1.23% | 0.084% |
| 65 | 14.280 | 2069 | 2073 | 2077 | rVV | 36724 | 51690 | 6.40% | 0.434% |
| 66 | 14.315 | 2077 | 2079 | 2082 | rVV | 12277 | 10054 | 1.24% | 0.084% |
| 67 | 14.345 | 2082 | 2084 | 2088 | rBV3 | 25414 | 37613 | 4.65% | 0.316% |
| 68 | 14.386 | 2088 | 2091 | 2093 | rVB4 | 19148 | 18911 | 2.34% | 0.159% |
| 69 | 14.415 | 2093 | 2096 | 2097 | rBV2 | 16112 | 15618 | 1.93% | 0.131% |
| 70 | 14.621 | 2127 | 2131 | 2132 | rBV4 | 18033 | 25895 | 3.20% | 0.218% |
| 71 | 14.639 | 2132 | 2134 | 2136 | rVB2 | 34679 | 28198 | 3.49% | 0.237% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

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-BF101819.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 14.709 | 2142 | 2146 | 2149 | rVB | 57092 | 62933 | 7.79% | 0.529% |
| 73 | 14.774 | 2153 | 2157 | 2162 | rBV7 | 30021 | 58787 | 7.28% | 0.494% |
| 74 | 14.927 | 2178 | 2183 | 2185 | rBV | 153389 | 213192 | 26.38% | 1.791% |
| 75 | 14.951 | 2185 | 2187 | 2192 | rVB2 | 105752 | 119851 | 14.83% | 1.007% |
| 76 | 15.027 | 2198 | 2200 | 2204 | rVB | 34343 | 31992 | 3.96% | 0.269% |
| 77 | 15.209 | 2228 | 2231 | 2238 | rVB | 84145 | 102037 | 12.63% | 0.857% |
| 78 | 15.274 | 2238 | 2242 | 2245 | rBV | 126765 | 151064 | 18.70% | 1.269% |
| 79 | 15.333 | 2246 | 2252 | 2255 | rBV | 166552 | 219248 | 27.13% | 1.842% |
| 80 | 15.715 | 2314 | 2317 | 2321 | rVB2 | 36851 | 42555 | 5.27% | 0.357% |
| 81 | 15.804 | 2329 | 2332 | 2335 | rBV5 | 14044 | 23228 | 2.87% | 0.195% |
| 82 | 16.180 | 2394 | 2396 | 2400 | rBV4 | 20013 | 21107 | 2.61% | 0.177% |
| 83 | 16.751 | 2485 | 2493 | 2500 | rVB3 | 51485 | 133793 | 16.56% | 1.124% |
| 84 | 16.968 | 2526 | 2530 | 2539 | rVB10 | 10852 | 25889 | 3.20% | 0.217% |
| 85 | 17.186 | 2562 | 2567 | 2580 | rVB2 | 36582 | 86225 | 10.67% | 0.724% |

Sum of corrected areas: 11905350

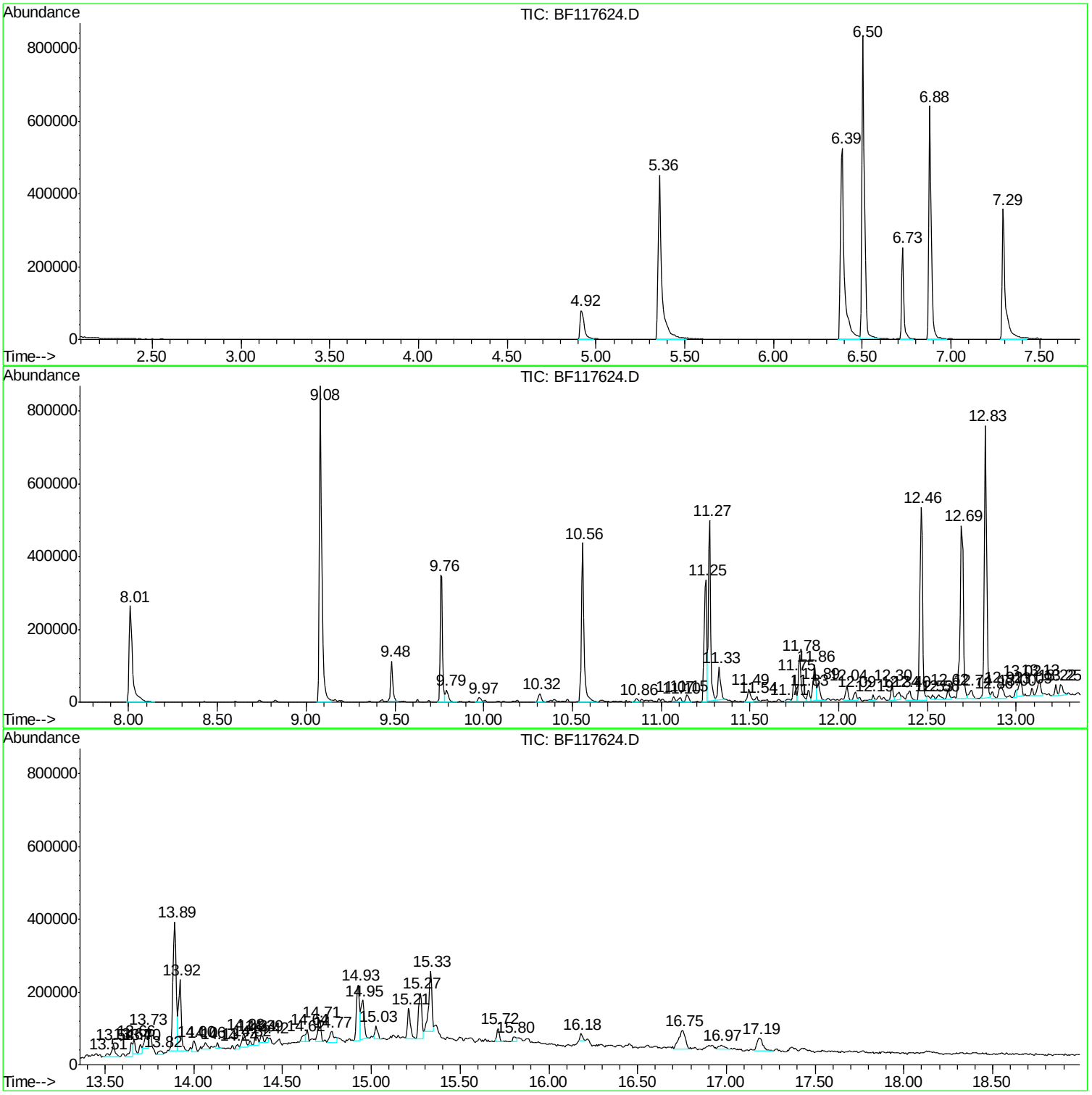
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

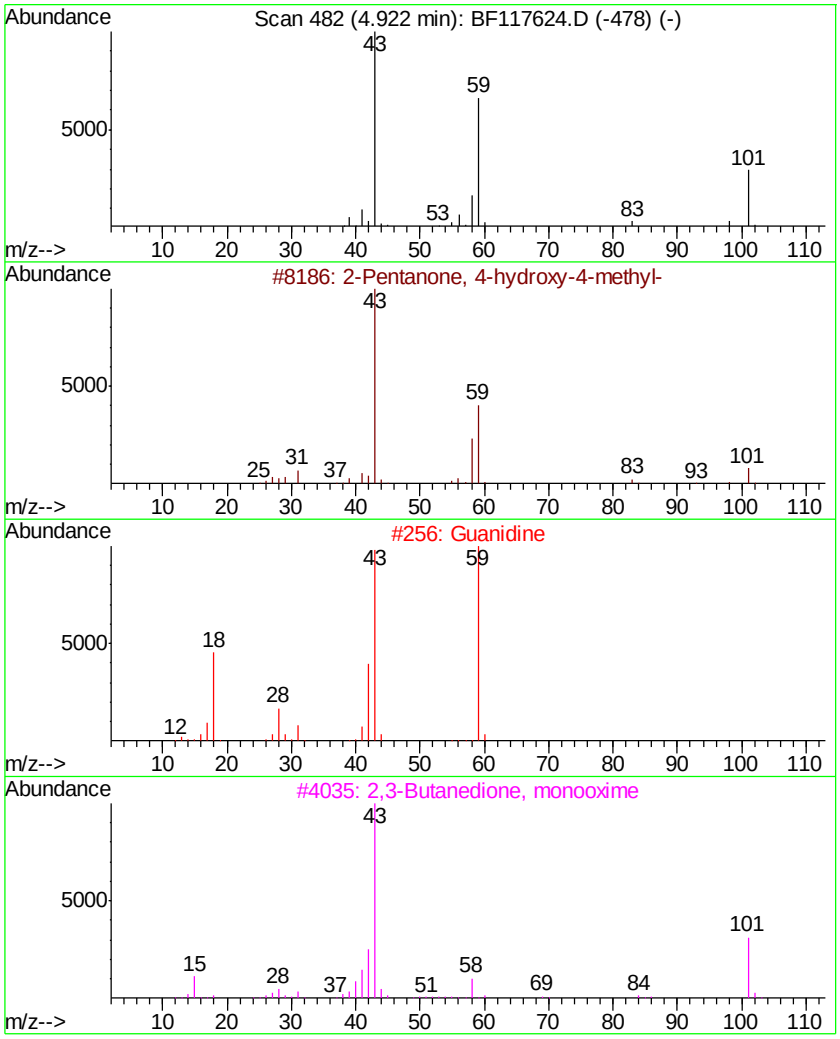
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

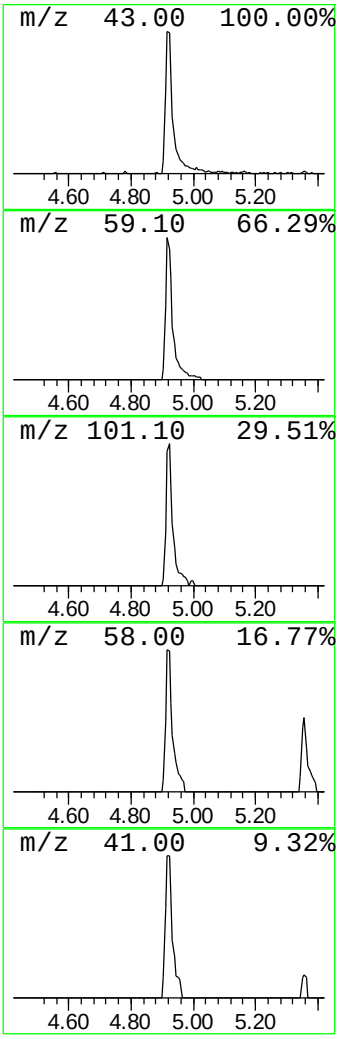
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.92 | 10.58 ng | 124187 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 50 |
| 2 | Guanidine | 59 | CH5N3 | 000113-00-8 | 43 |
| 3 | 2,3-Butanedione, monooxime | 101 | C4H7NO2 | 000057-71-6 | 35 |
| 4 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 17 |
| 5 | Butane, 1-ethoxy- | 102 | C6H14O | 000628-81-9 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

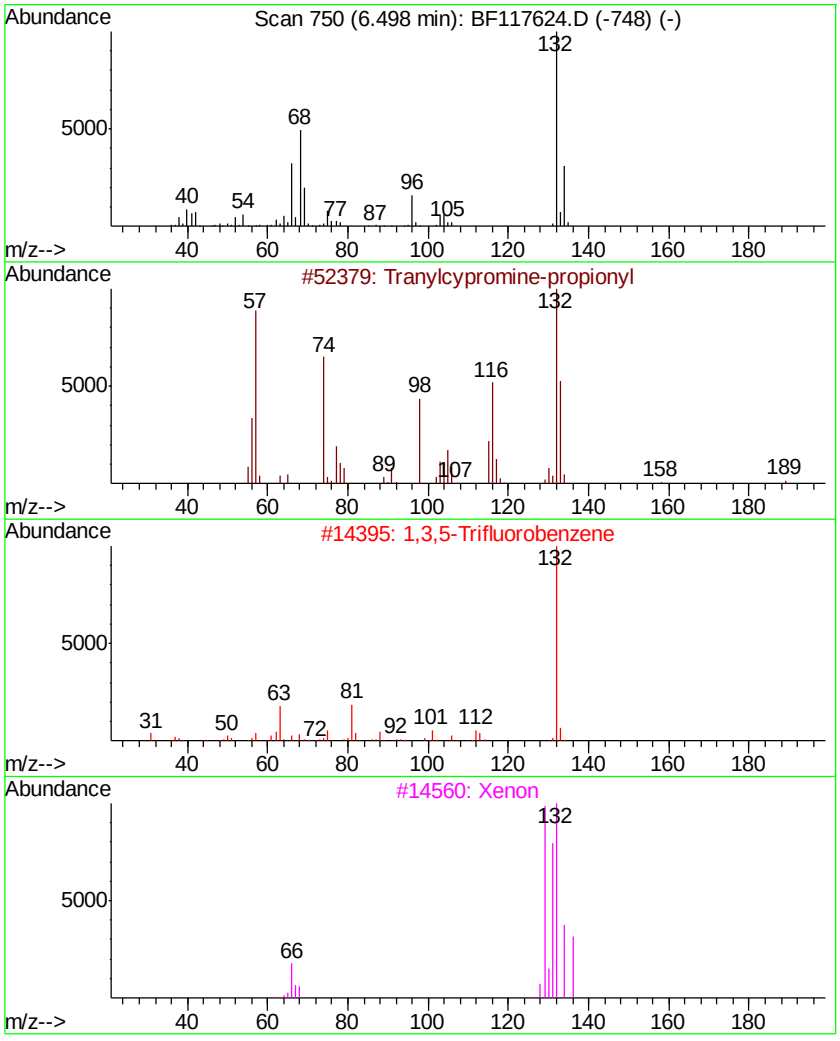
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

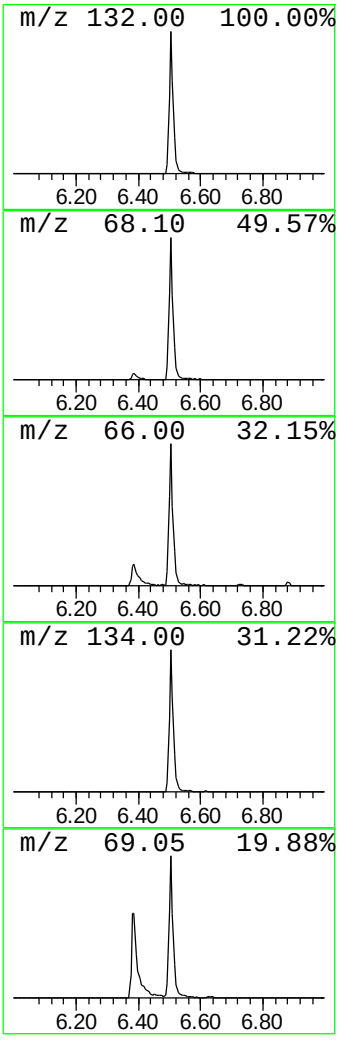
**********

Peak Number 2 unknown6.50 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.50 | 68.50 ng | 803913 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 12 |
| 2 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 3 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |
| 5 | 1-Methylpyrrolo[1,2-a]pyrazine | 132 | C8H8N2 | 064608-59-9 | 9 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

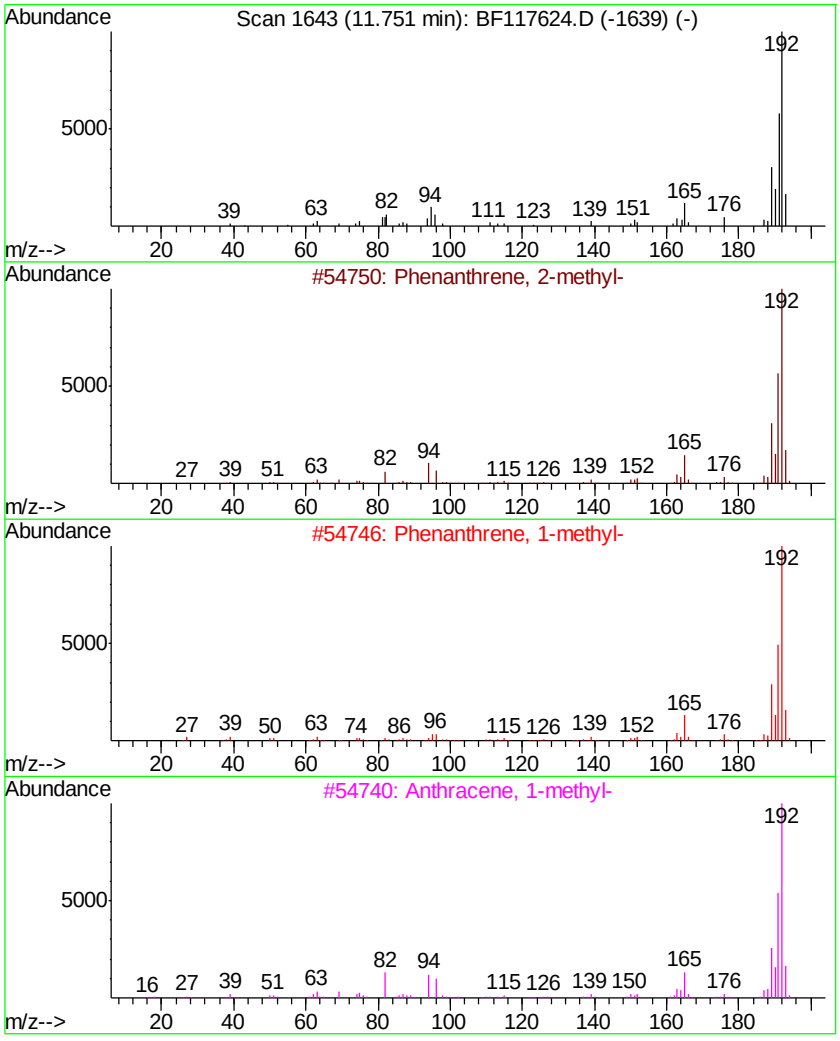
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

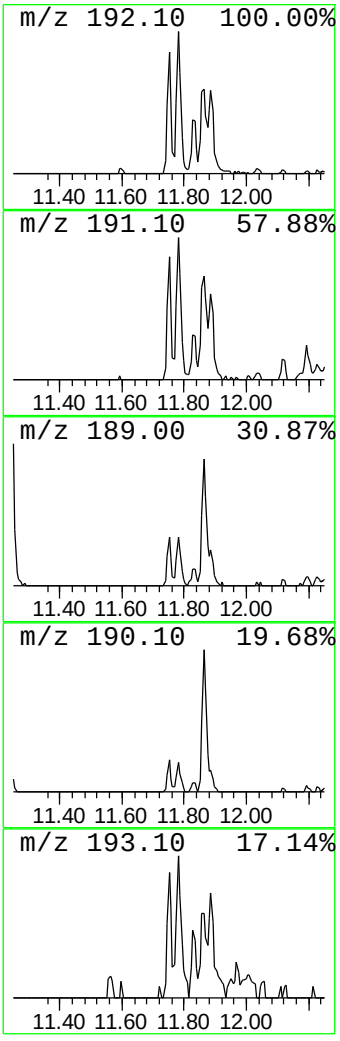
**********

Peak Number 4 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 4.35 ng | 67766 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 93 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 81 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

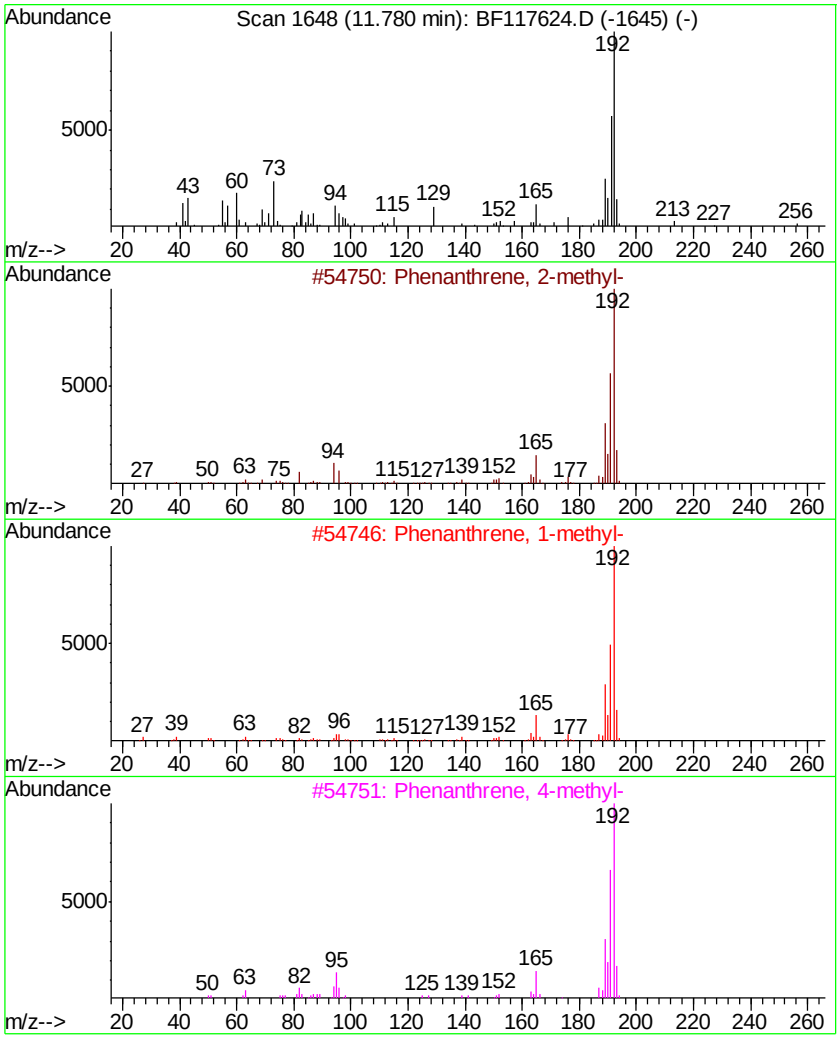
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

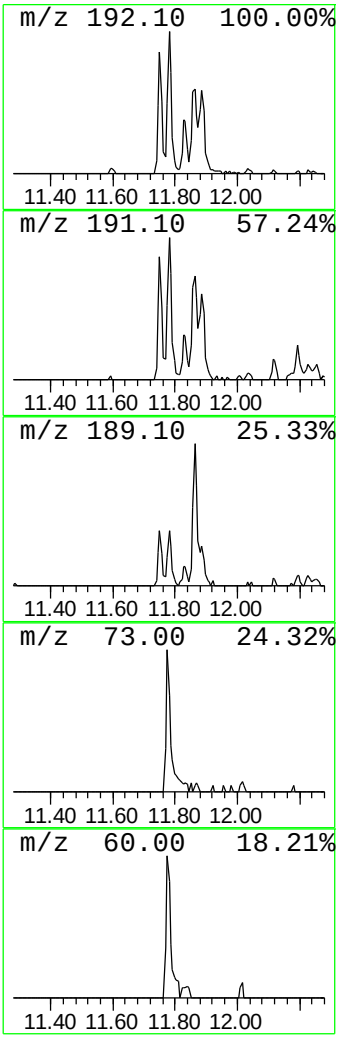
**********

Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.78 | 9.29 ng | 144787 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 95 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 95 |
| 3 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 95 |
| 4 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 92 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

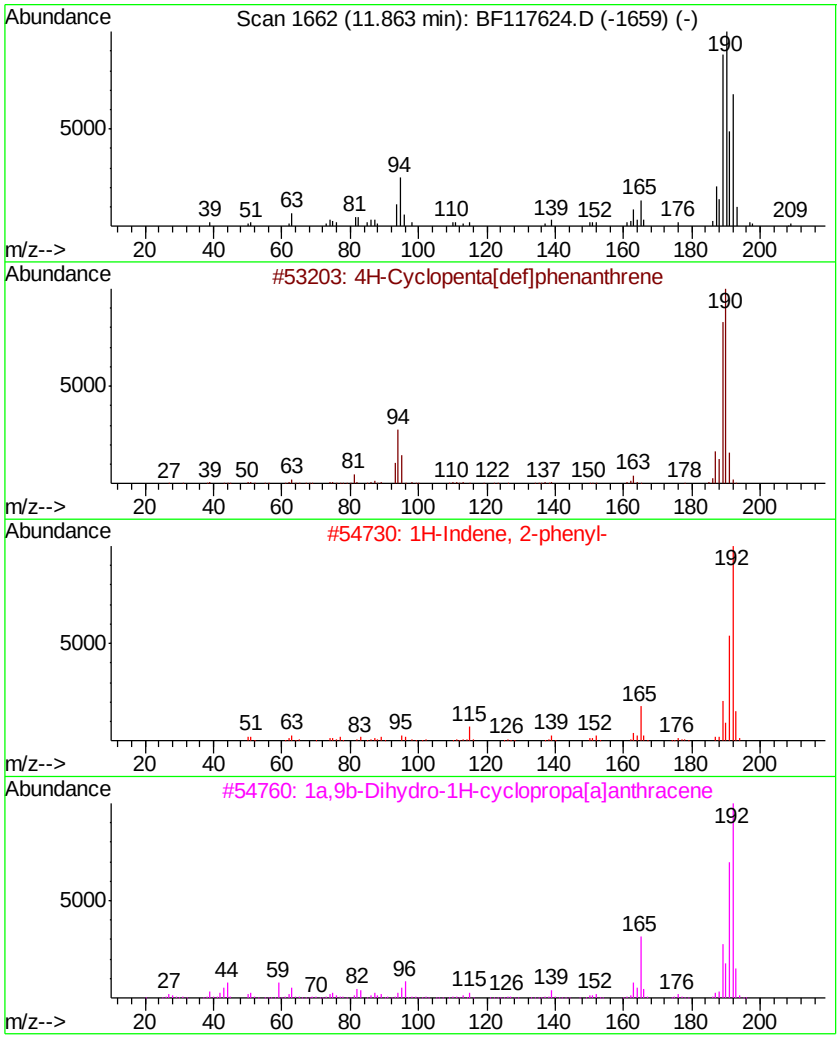
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

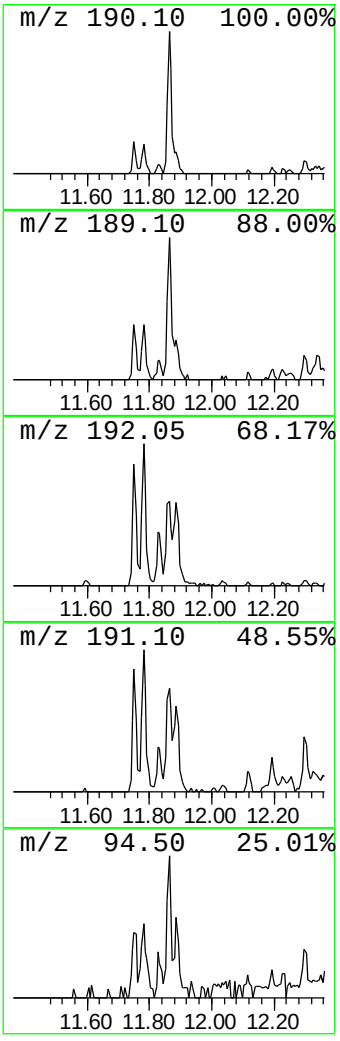
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.86 | 6.55 ng | 102000 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 70 |
| 2 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 38 |
| 3 | 1a,9b-Dihydro-1H-cyclopropa[a]an... | 192 | C15H12 | 006109-24-6 | 35 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 35 |
| 5 | Phenanthrene, 4-methyl- | 192 | C15H12 | 000832-64-4 | 30 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

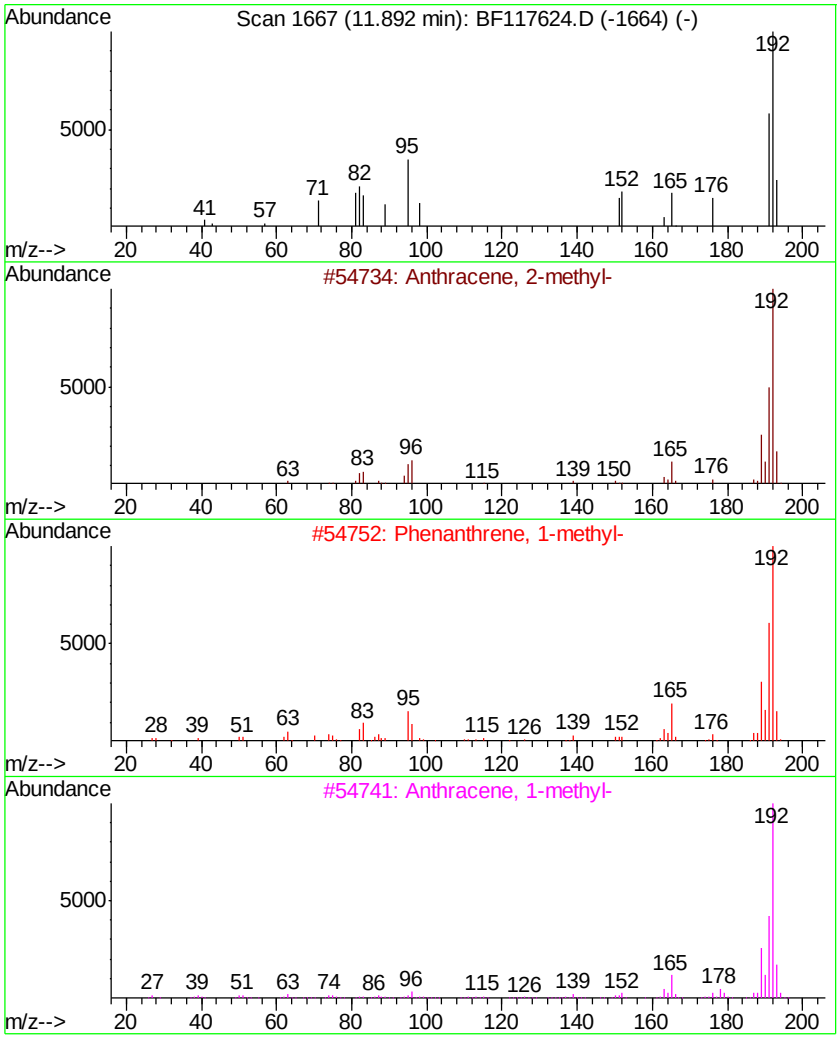
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

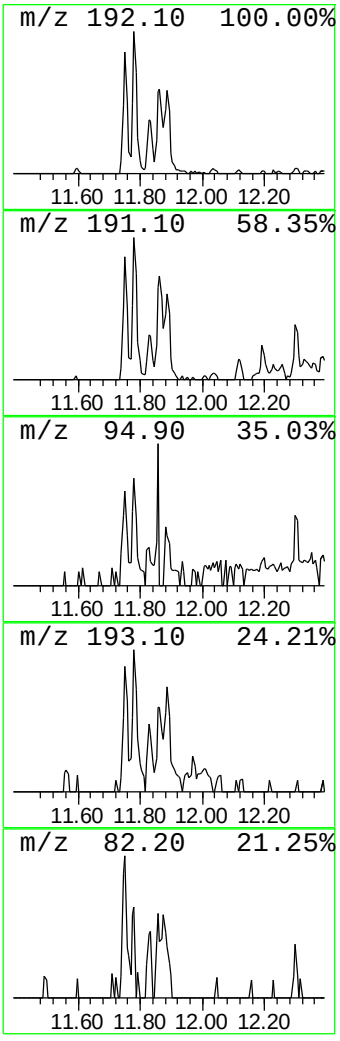
**********

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.89 | 3.16 ng | 49191 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 87 |
| 2 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 87 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 83 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 80 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 78 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

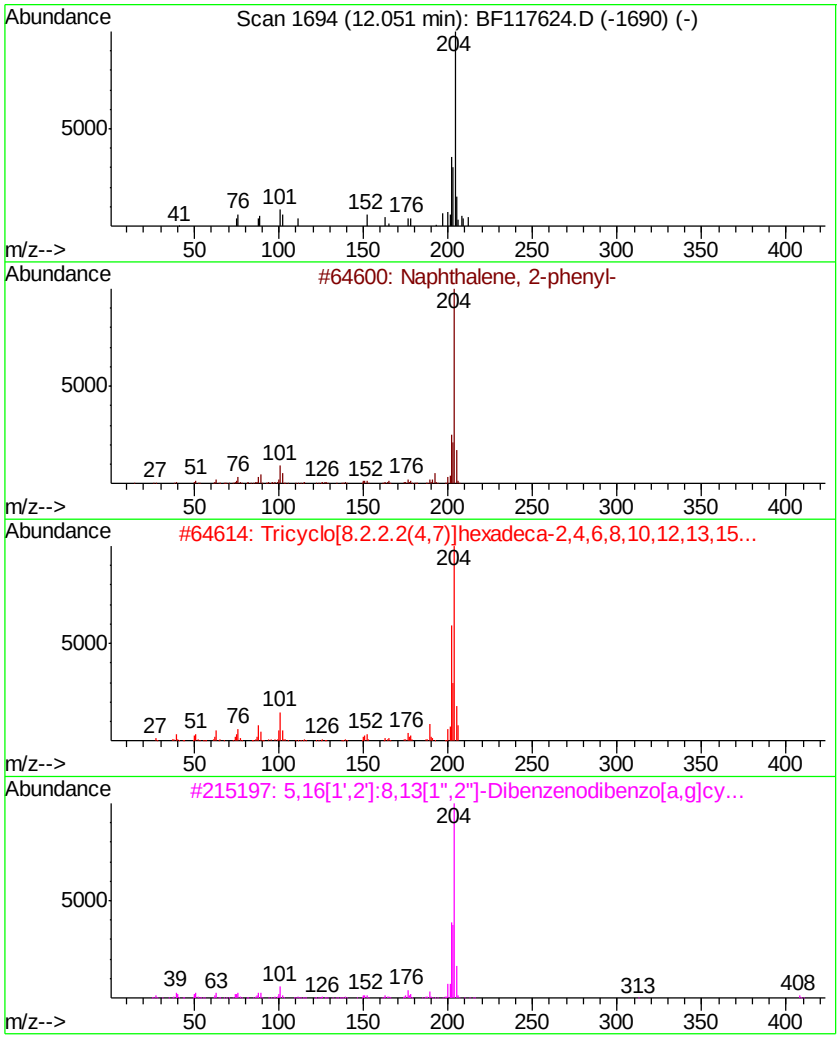
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

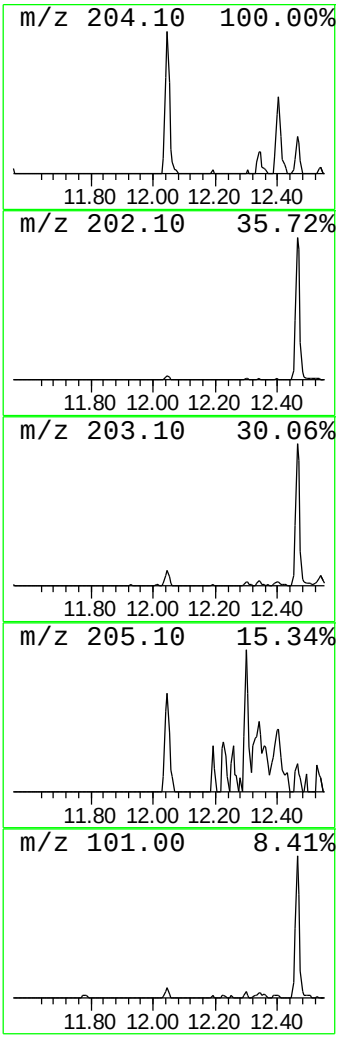
**********

Peak Number 8 Naphthalene, 2-phenyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.05 | 2.42 ng | 37710 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 86 |
| 2 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 86 |
| 3 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 86 |
| 4 | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204 | C16H12 | 002975-79-3 | 70 |
| 5 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 58 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

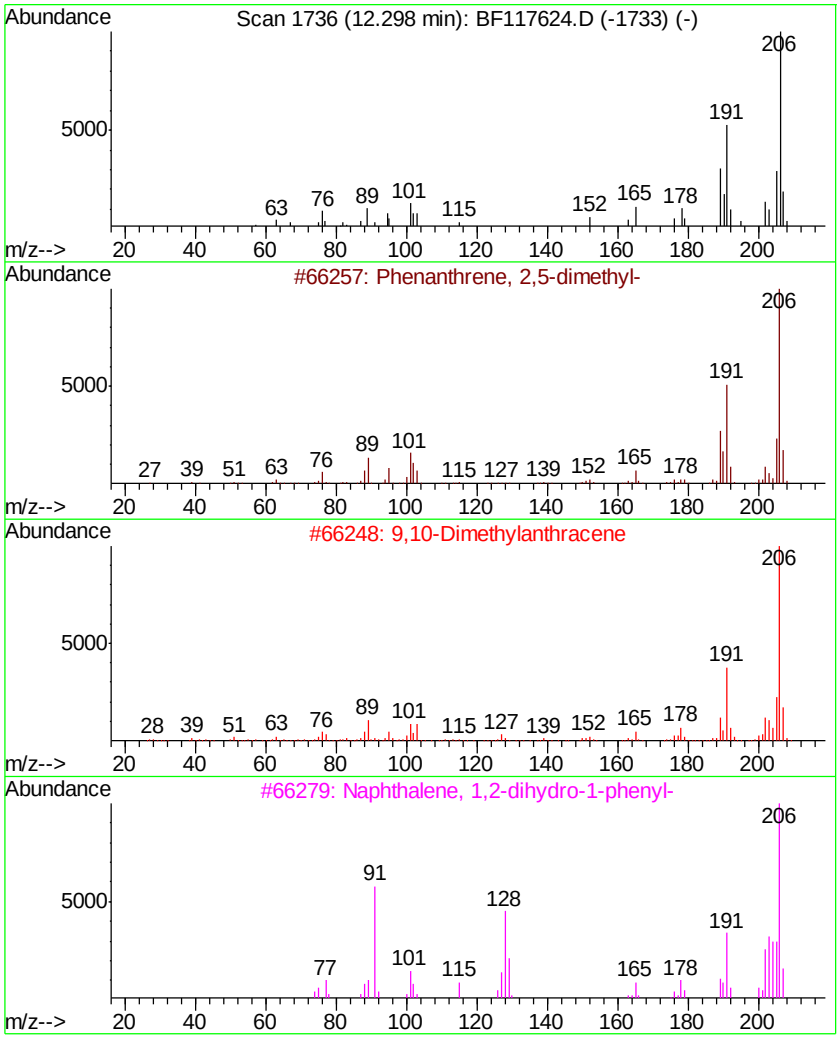
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

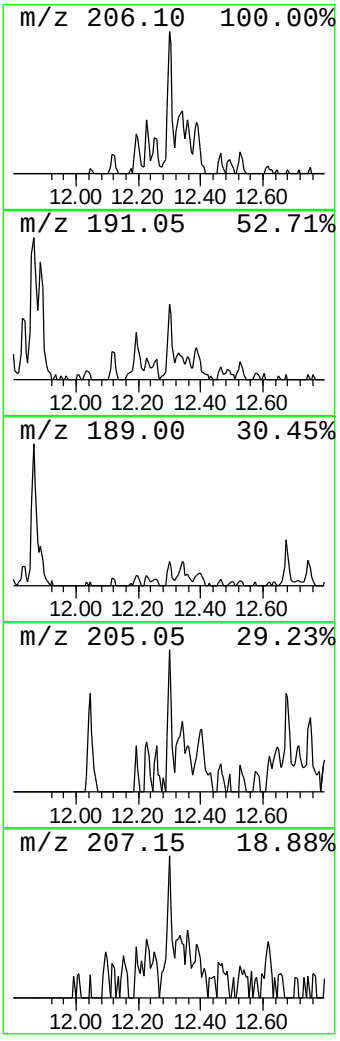
**********

Peak Number 9 9,10-Dimethylanthracene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 2.58 ng | 40129 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 95 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | Naphthalene, 1,2-dihydro-1-phenyl- | 206 | C16H14 | 016606-46-5 | 92 |
| 4 | Phenanthrene, 2,7-dimethyl- | 206 | C16H14 | 001576-69-8 | 91 |
| 5 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 90 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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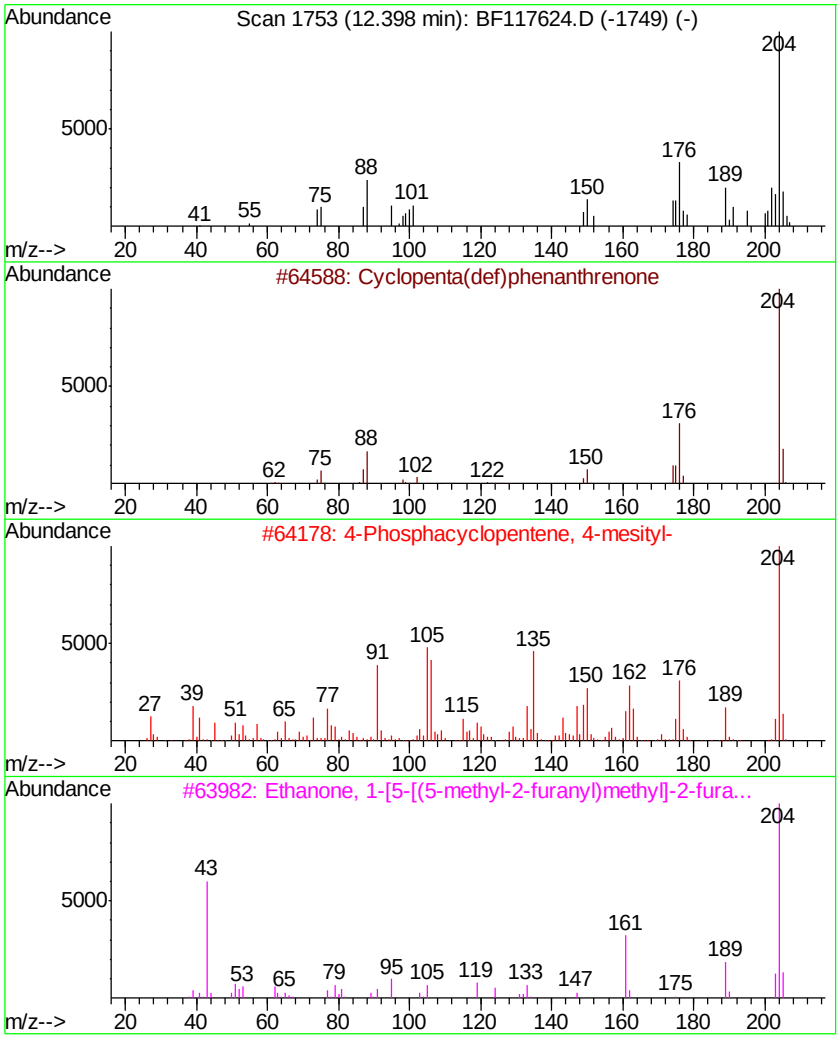
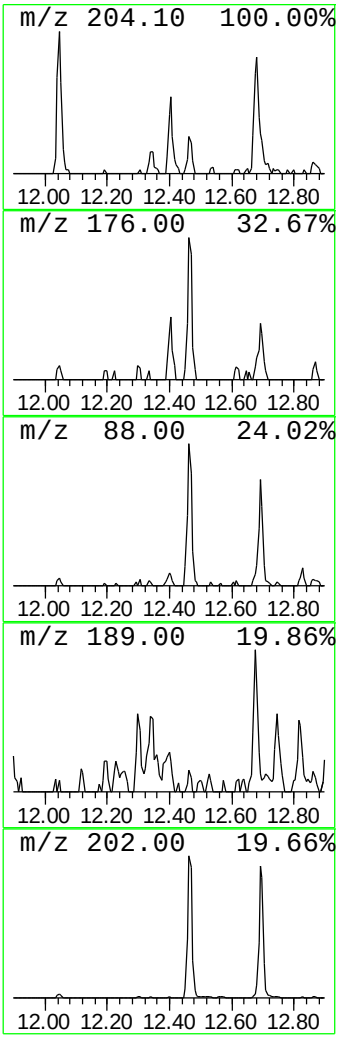
Peak Number 10 Cyclopenta(def)phenanthrenone Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.40 | 2.40 ng | 37445 | Phenanthrene-d10 | 11.25 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 86 |
| 2 | 4-Phosphacyclopentene, 4-mesityl- | 204 | C13H17P | 214605-01-3 | 49 |
| 3 | Ethanone, 1-[5-[(5-methyl-2-fura... | 204 | C12H12O3 | 052805-85-3 | 49 |
| 4 | 3,4-Biphenyldicarbonitrile | 204 | C14H8N2 | 004128-63-6 | 47 |
| 5 | 1,4-Naphthalenedione, 5,8-dihydr... | 204 | C11H8O4 | 014554-09-7 | 47 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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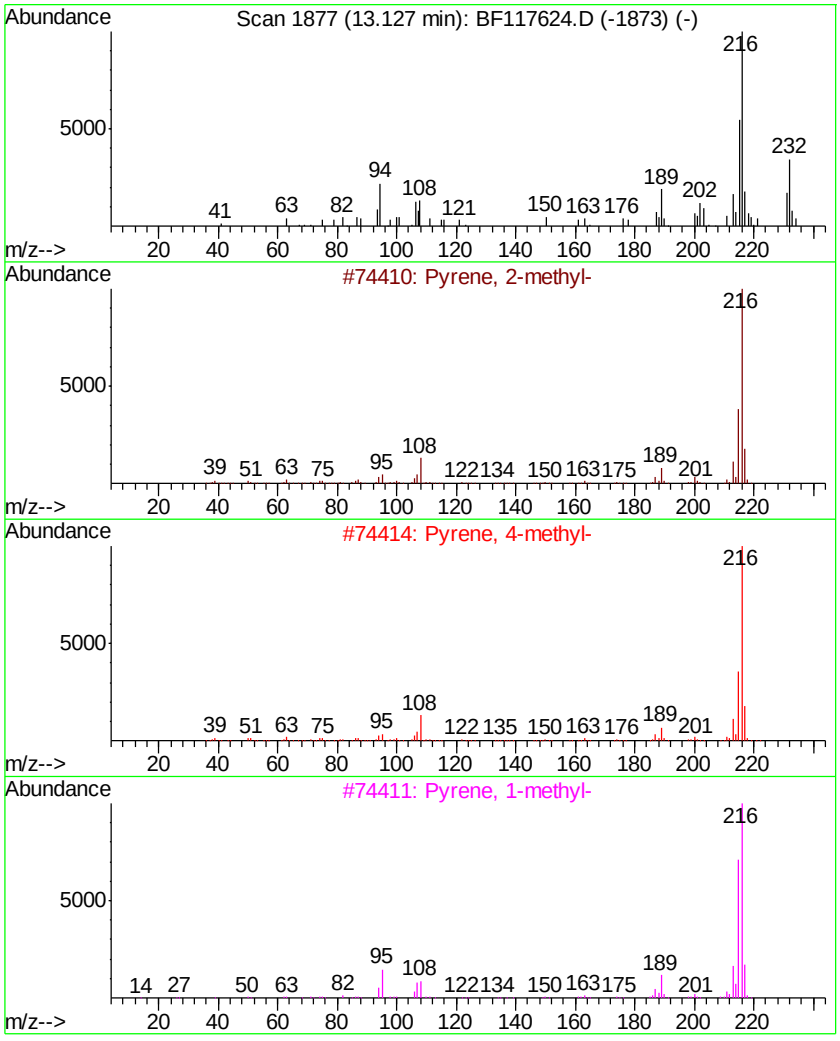
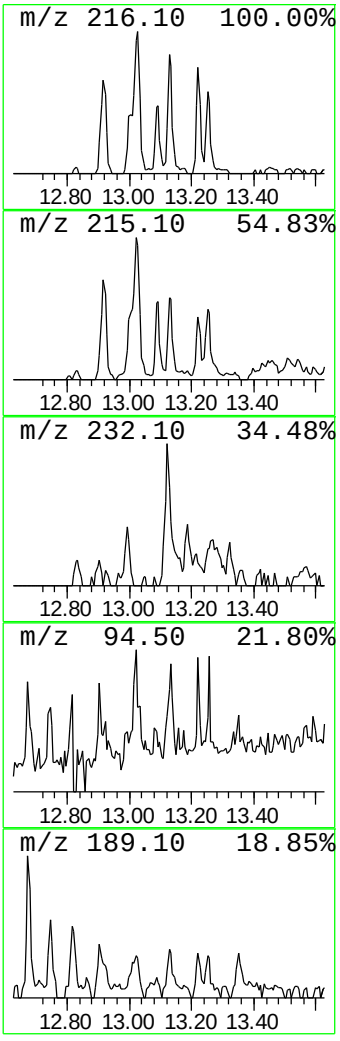
Peak Number 11 Pyrene, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.13 | 2.20 ng | 56219 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 95 |
| 2 | Pyrene, 4-methyl- | 216 | C17H12 | 003353-12-6 | 91 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 86 |
| 4 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 58 |
| 5 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 58 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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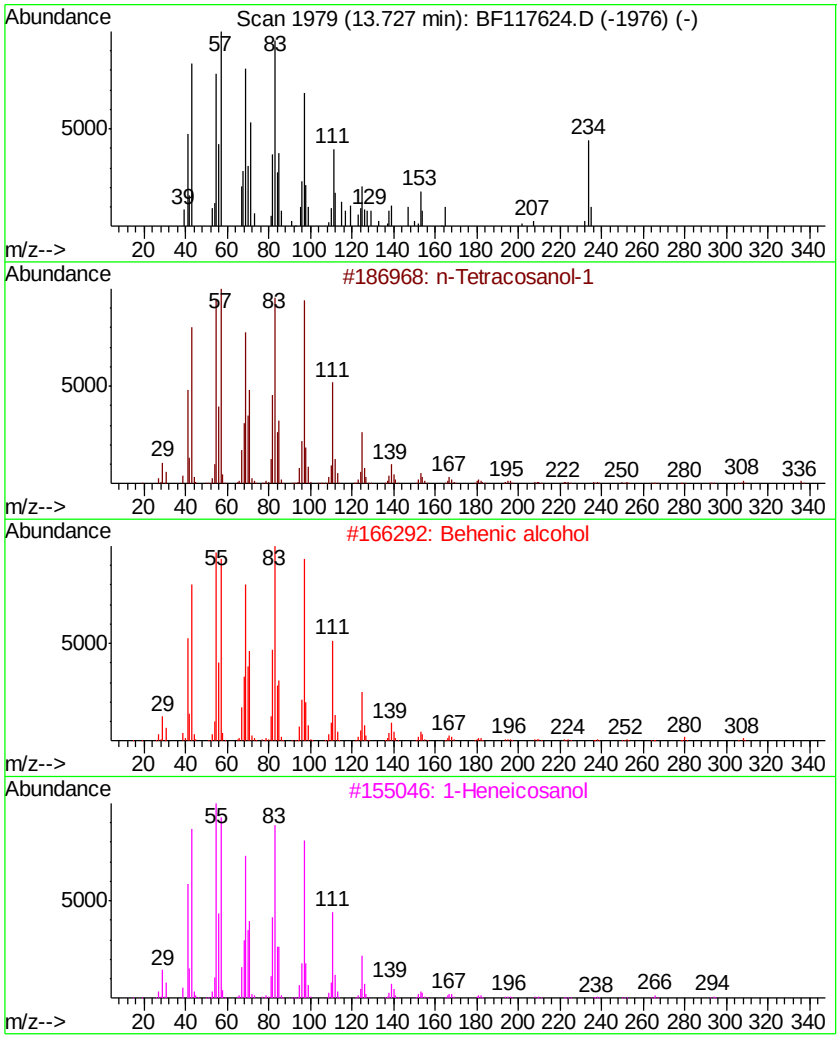
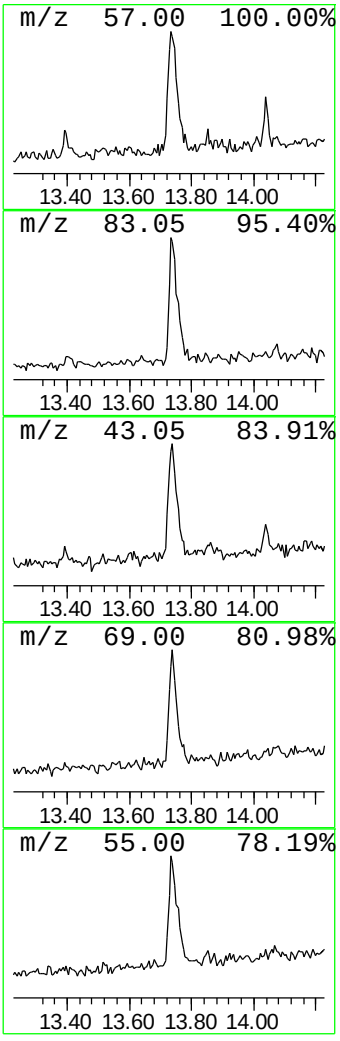
Peak Number 12 n-Tetracosanol-1 Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.73 | 2.79 ng | 71128 | Chrysene-d12 | 13.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Tetracosanol-1 | 354 | C24H50O | 000506-51-4 | 95 |
| 2 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 94 |
| 3 | 1-Heneicosanol | 312 | C21H44O | 015594-90-8 | 91 |
| 4 | 1-Docosene | 308 | C22H44 | 001599-67-3 | 91 |
| 5 | 1-Eicosanol | 298 | C20H42O | 000629-96-9 | 87 |



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Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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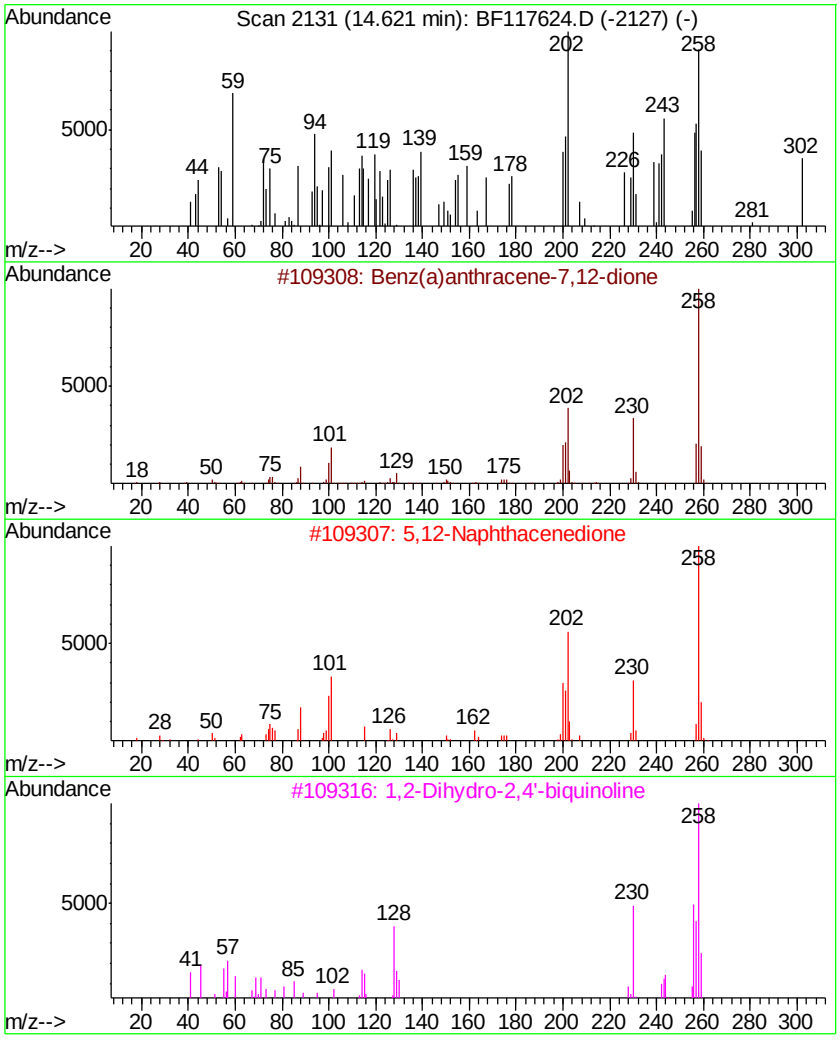
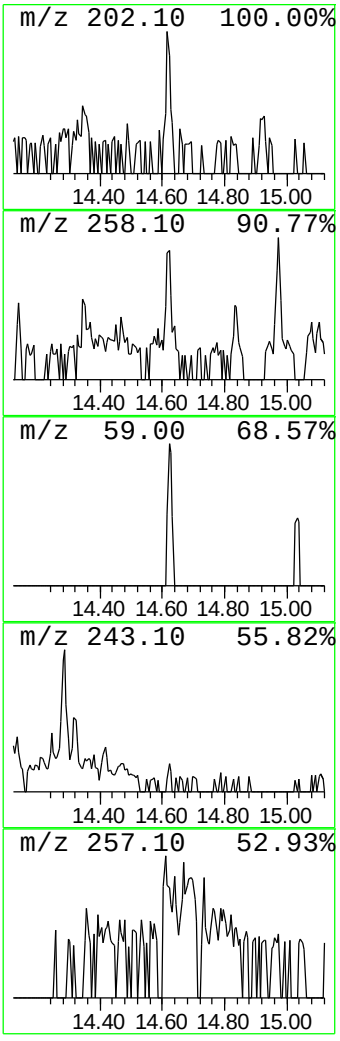
Peak Number 13 Benz(a)anthracene-7,12-dione Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.62 | 2.36 ng | 25895 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benz(a)anthracene-7,12-dione | 258 | C18H10O2 | 002498-66-0 | 52 |
| 2 | 5,12-Naphthacenedione | 258 | C18H10O2 | 001090-13-7 | 50 |
| 3 | 1,2-Dihydro-2,4'-biquinoline | 258 | C18H14N2 | 1000326-82-7 | 27 |
| 4 | Piperazine, 1-methyl-4-(1,2,3,4-... | 258 | C17H26N2 | 055591-14-5 | 25 |
| 5 | Dibenzo[b,h][1,6]naphthyridine, ... | 258 | C18H14N2 | 004240-85-1 | 18 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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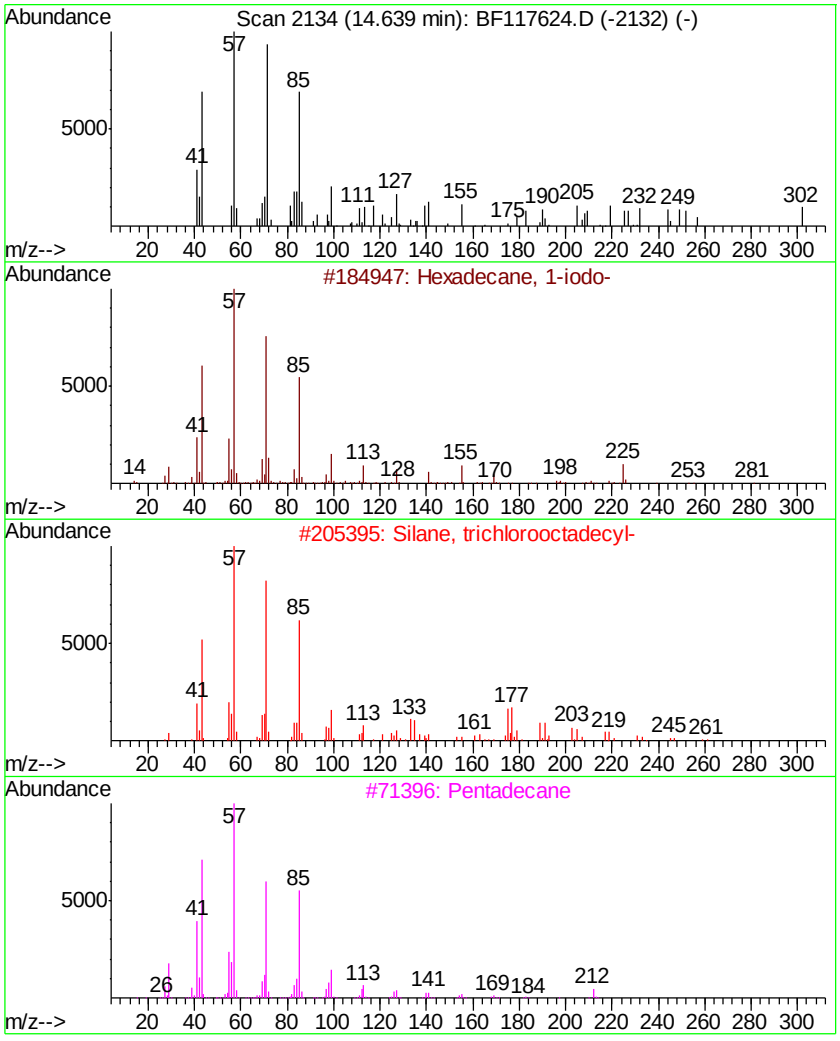
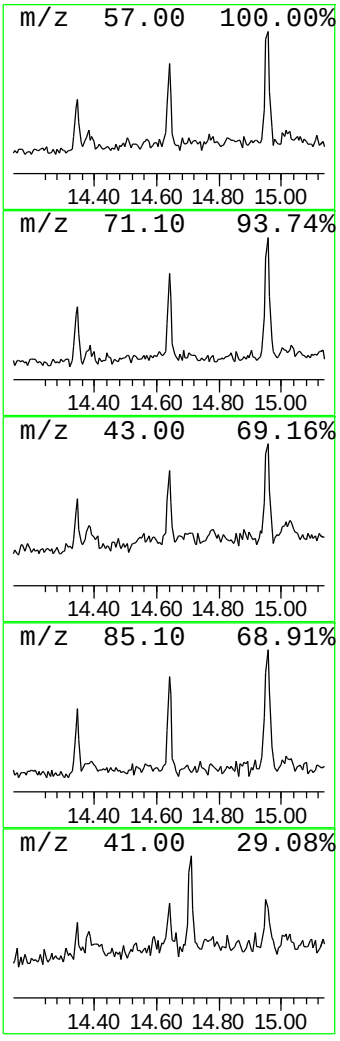
Peak Number 14 Hexadecane, 1-iodo- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.64 | 2.57 ng | 28198 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 1-iodo- | 352 | C16H33I | 000544-77-4 | 59 |
| 2 | Silane, trichlorooctadecyl- | 386 | C18H37Cl3Si | 000112-04-9 | 59 |
| 3 | Pentadecane | 212 | C15H32 | 000629-62-9 | 53 |
| 4 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 53 |
| 5 | Decane, 1-iodo- | 268 | C10H21I | 002050-77-3 | 53 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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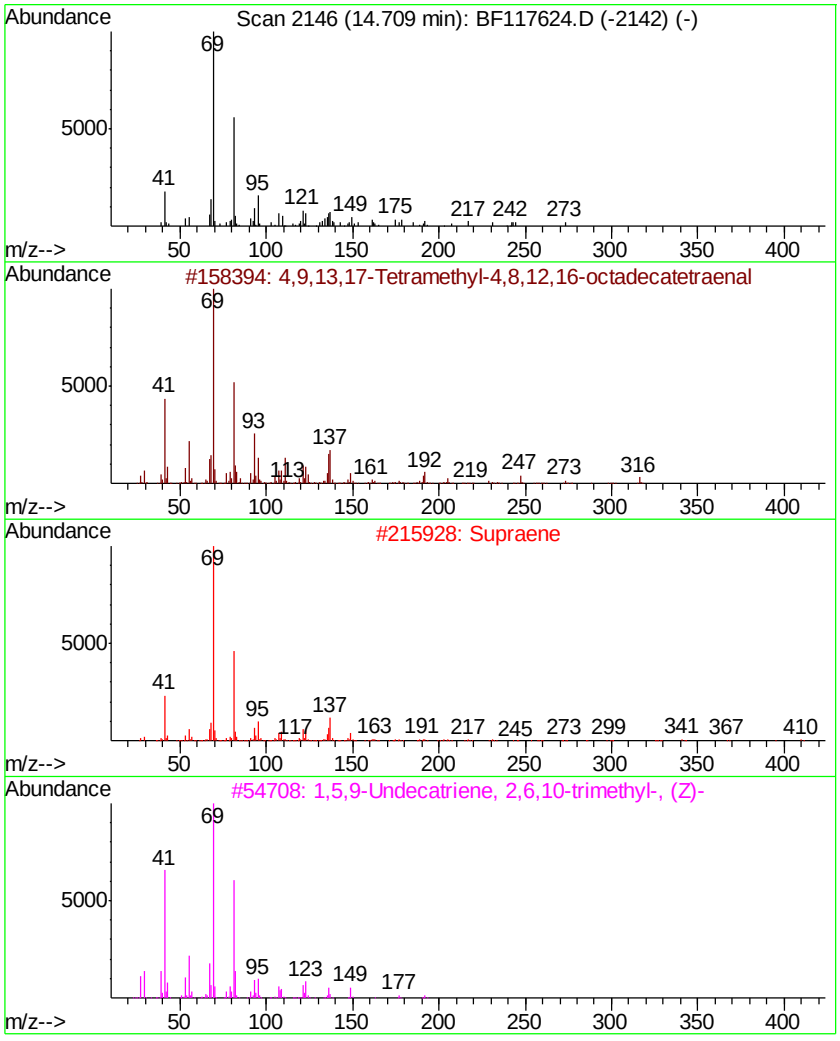
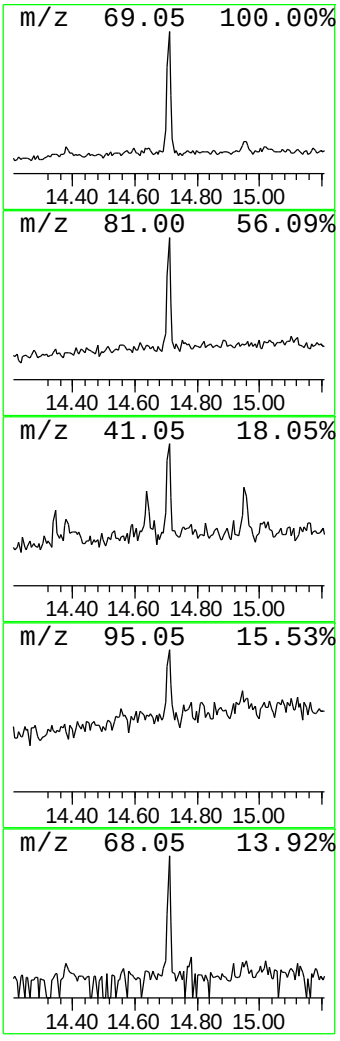
Peak Number 15 4,9,13,17-Tetramethyl-4,8,1... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.71 | 5.74 ng | 62933 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4,9,13,17-Tetramethyl-4,8,12,16-... | 316 | C22H36O | 056882-09-8 | 72 |
| 2 | Supraene | 410 | C30H50 | 007683-64-9 | 64 |
| 3 | 1,5,9-Undecatriene, 2,6,10-trime... | 192 | C14H24 | 062951-96-6 | 64 |
| 4 | .beta.-D-Mannofuranoside, farnesyl- | 384 | C21H36O6 | 1000155-15-5 | 64 |
| 5 | Farnesol isomer a | 222 | C15H26O | 1000108-92-4 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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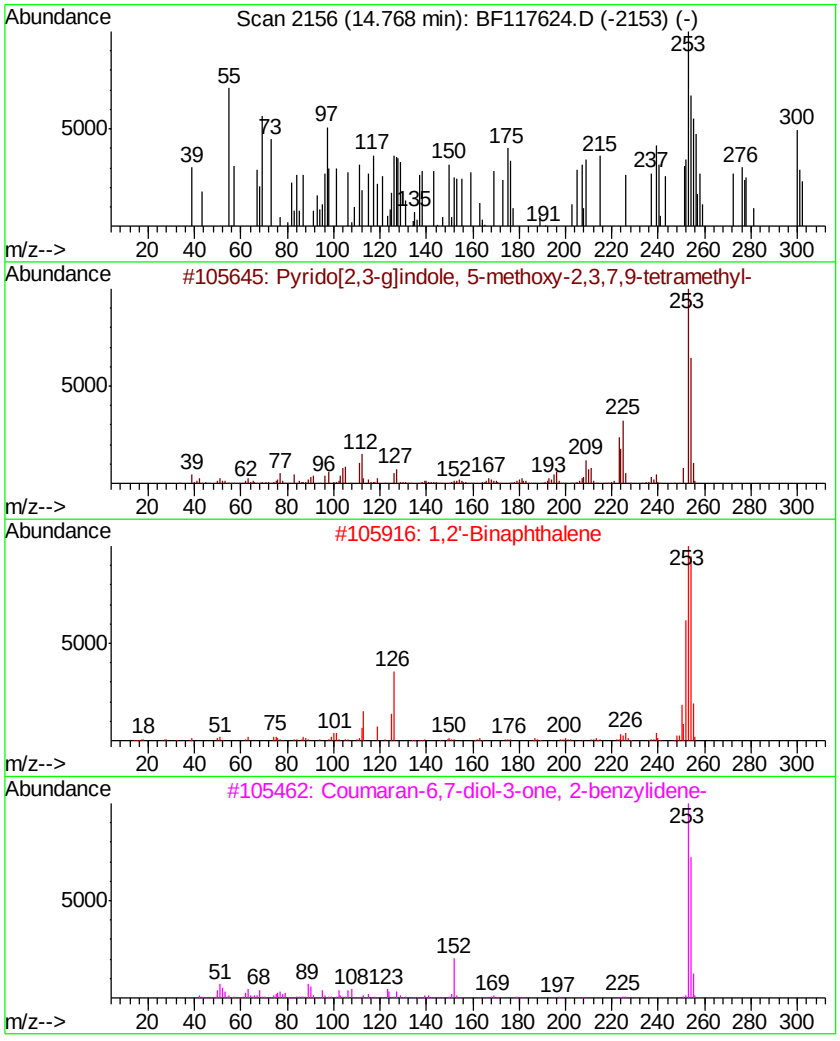
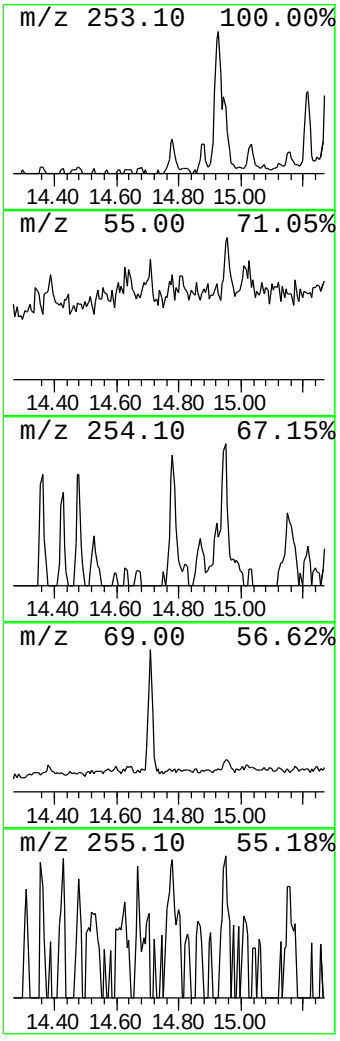
Peak Number 16 Pyrido[2,3-g]indole, 5-meth... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.77 | 5.36 ng | 58787 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pyrido[2,3-g]indole, 5-methoxy-2... | 254 | C16H18N2O | 201991-45-9 | 64 |
| 2 | 1,2'-Binaphthalene | 254 | C20H14 | 004325-74-0 | 49 |
| 3 | Coumaran-6,7-diol-3-one, 2-benzy... | 254 | C15H10O4 | 029813-90-9 | 47 |
| 4 | 4,4'-Biazulenyl | 254 | C20H14 | 094053-54-0 | 43 |
| 5 | Benzo[a]pyrene, 4,5-dihydro- | 254 | C20H14 | 057652-66-1 | 38 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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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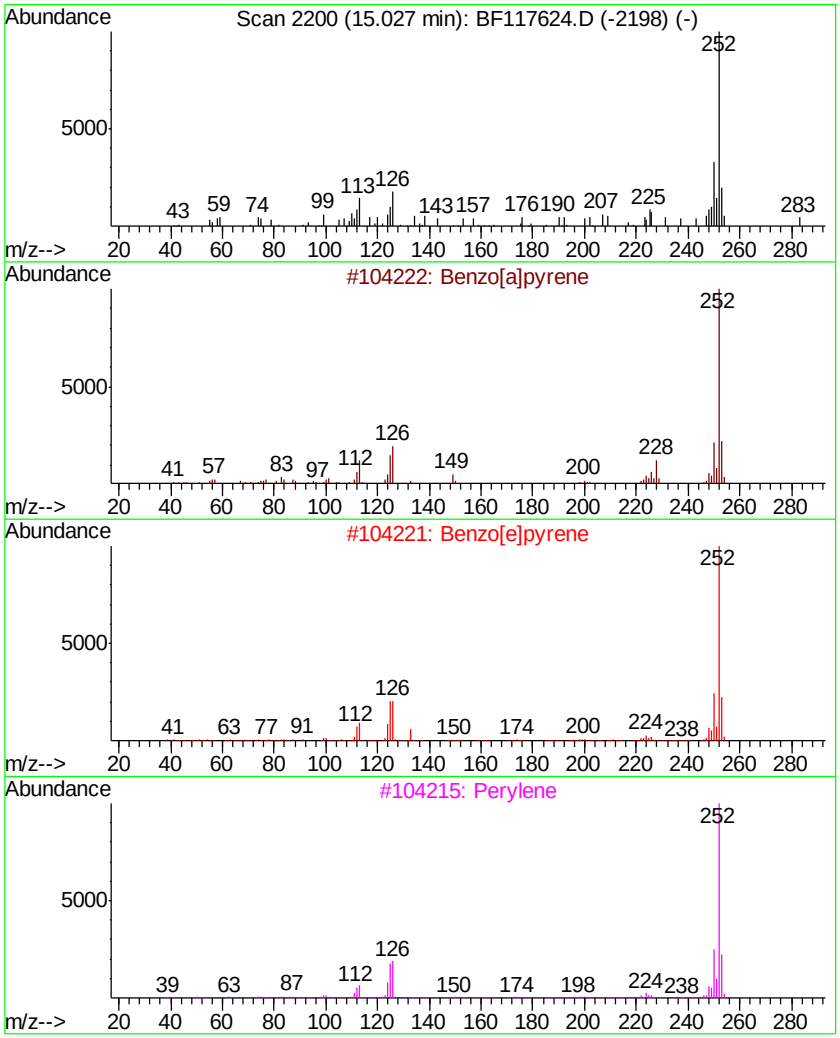
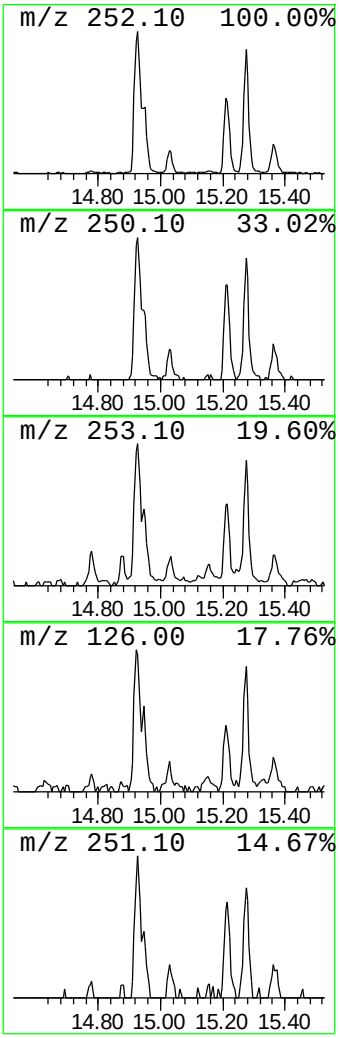
Peak Number 17 Benzo[e]pyrene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.03 | 2.92 ng | 31992 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 70 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 68 |
| 3 | Perylene | 252 | C20H12 | 000198-55-0 | 68 |
| 4 | 4'-Methoxyflavone | 252 | C16H12O3 | 004143-74-2 | 64 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 62 |



# Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

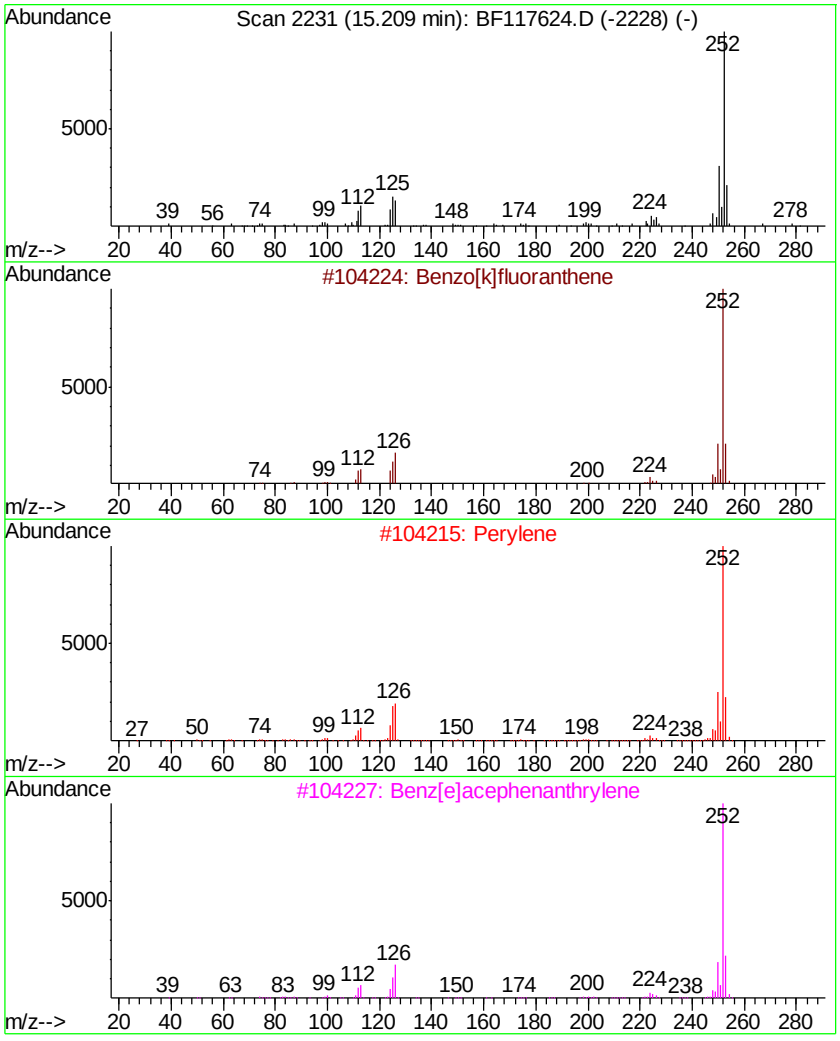
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

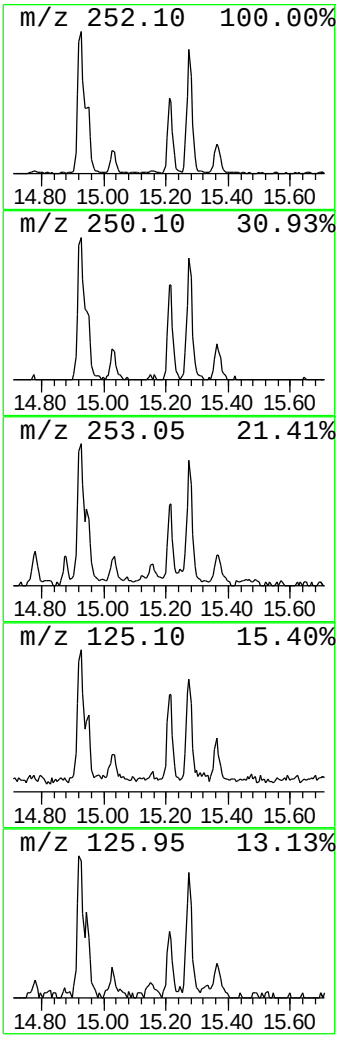
**********

Peak Number 18 Perylene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.21 | 9.31 ng | 102037 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 96 |
| 2 | Perylene | 252 | C20H12 | 000198-55-0 | 95 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 90 |
| 4 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 90 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

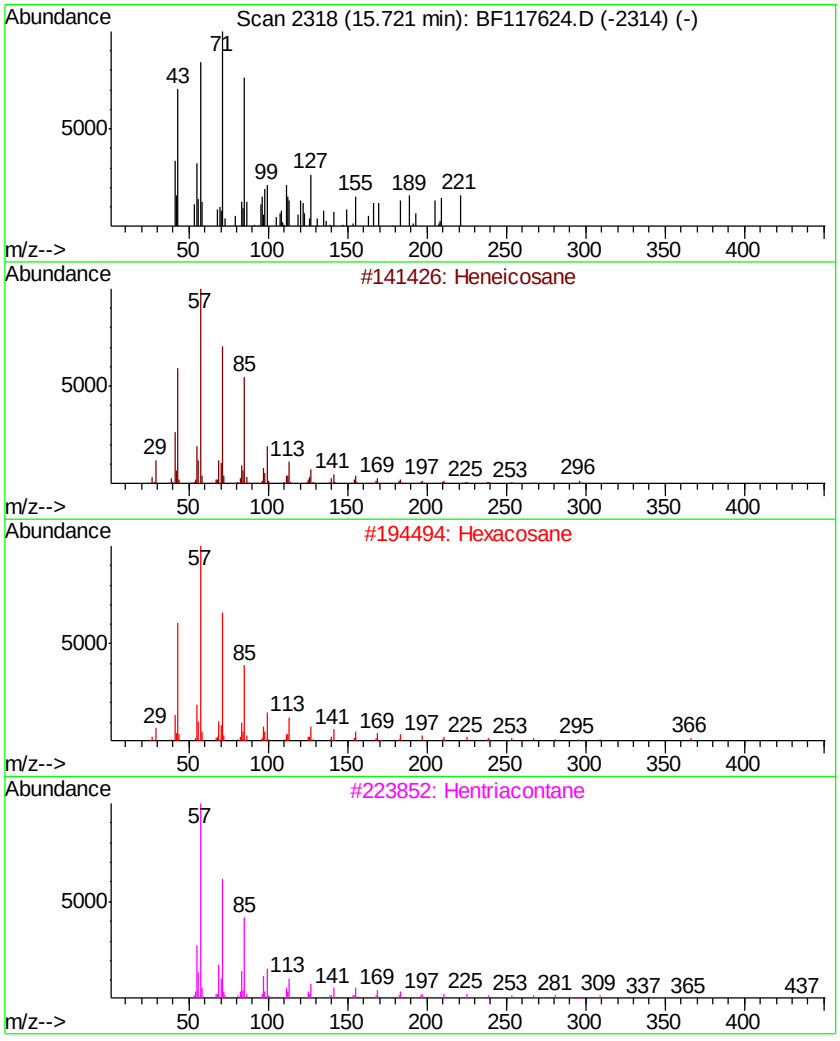
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

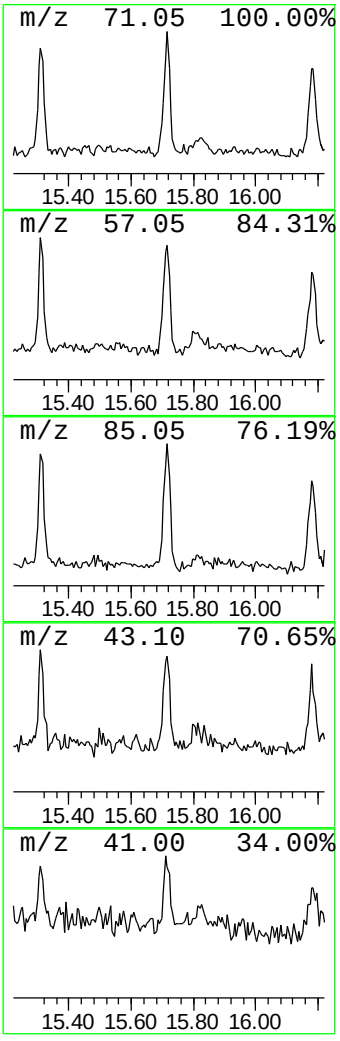
**********

Peak Number 19 Heneicosane Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.72 | 3.88 ng | 42555 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heneicosane | 296 | C21H44 | 000629-94-7 | 80 |
| 2 | Hexacosane | 366 | C26H54 | 000630-01-3 | 80 |
| 3 | Hentriacontane | 437 | C31H64 | 000630-04-6 | 80 |
| 4 | 2-methyloctacosane | 408 | C29H60 | 1000376-72-8 | 72 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 72 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

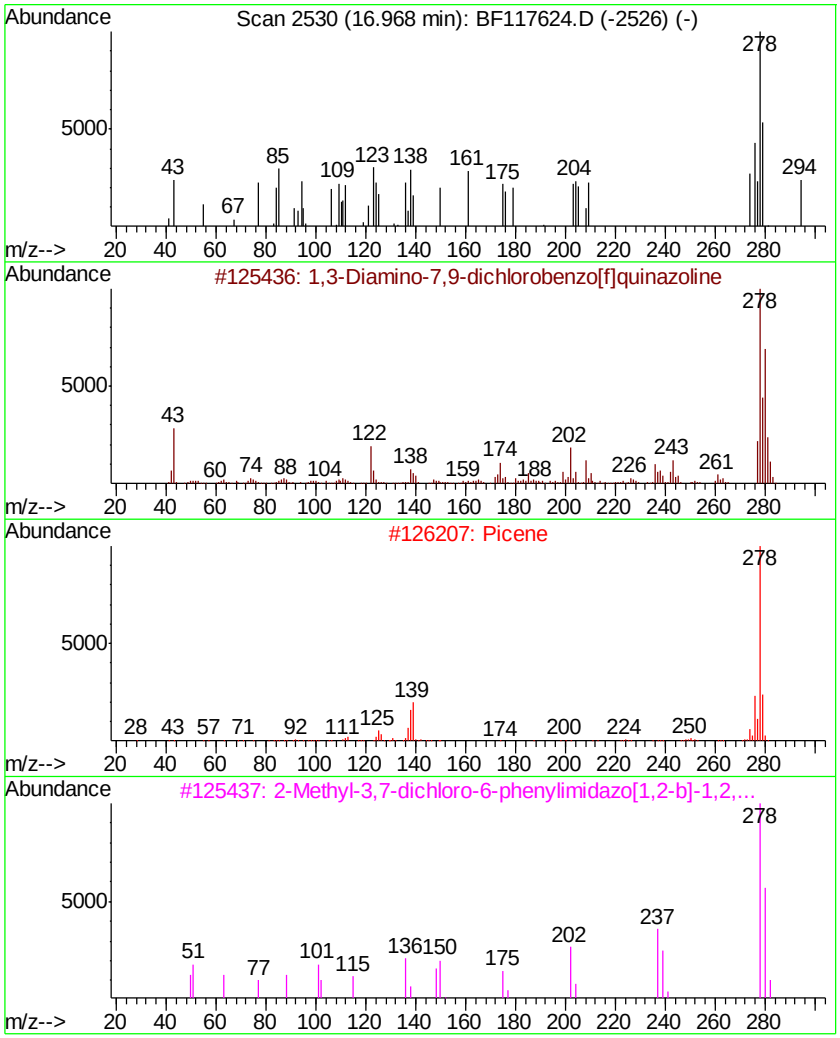
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

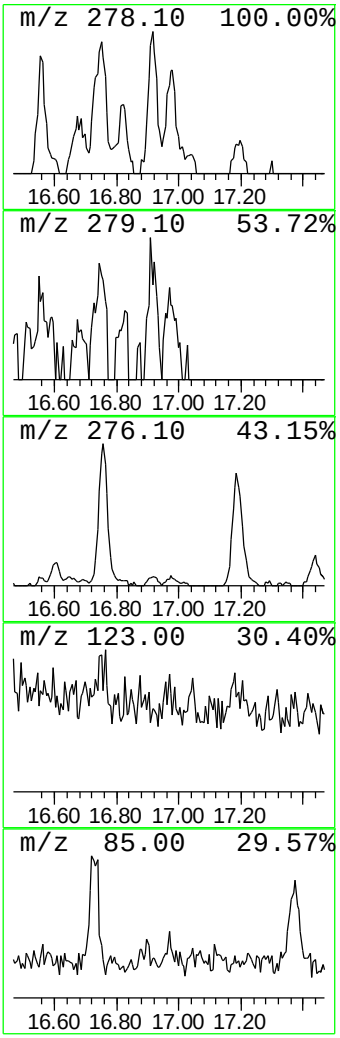
**********

Peak Number 20 unknown16.97 Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.97 | 2.36 ng | 25889 | Perylene-d12 | 15.33 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,3-Diamino-7,9-dichlorobenzo[f]... | 278 | C12H8Cl2N4 | 037521-58-7 | 38 |
| 2 | Picene | 278 | C22H14 | 000213-46-7 | 22 |
| 3 | 2-Methyl-3,7-dichloro-6-phenylim... | 278 | C12H8Cl2N4 | 107805-86-7 | 14 |
| 4 | Benzo[b]triphenylene | 278 | C22H14 | 000215-58-7 | 10 |
| 5 | Dibenz(a,c)acridine | 279 | C21H13N | 000215-62-3 | 10 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF103019\
Data File : BF117624.D
Acq On : 30 Oct 2019 15:05
Operator : JU
Sample : K5542-09
Misc :
ALS Vial : 11 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** 200-64-(0-1)

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF101819.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... | 4.92 | 10.6 | ng | 124187 | 1 | 6.73 | 234722 | 20.0 |
| unknown6.50 | 6.50 | 68.5 | ng | 803913 | 1 | 6.73 | 234722 | 20.0 |
| Phenanthrene, 2-m... | 11.75 | 4.3 | ng | 67766 | 4 | 11.25 | 311597 | 20.0 |
| Phenanthrene, 1-m... | 11.78 | 9.3 | ng | 144787 | 4 | 11.25 | 311597 | 20.0 |
| 4H-Cyclopenta[def... | 11.86 | 6.5 | ng | 102000 | 4 | 11.25 | 311597 | 20.0 |
| Anthracene, 2-met... | 11.89 | 3.2 | ng | 49191 | 4 | 11.25 | 311597 | 20.0 |
| Naphthalene, 2-ph... | 12.05 | 2.4 | ng | 37710 | 4 | 11.25 | 311597 | 20.0 |
| 9,10-Dimethylanth... | 12.30 | 2.6 | ng | 40129 | 4 | 11.25 | 311597 | 20.0 |
| Cyclopenta(def)ph... | 12.40 | 2.4 | ng | 37445 | 4 | 11.25 | 311597 | 20.0 |
| Pyrene, 2-methyl- | 13.13 | 2.2 | ng | 56219 | 5 | 13.90 | 509935 | 20.0 |
| n-Tetracosanol-1 | 13.73 | 2.8 | ng | 71128 | 5 | 13.90 | 509935 | 20.0 |
| Benz(a)anthracene... | 14.62 | 2.4 | ng | 25895 | 6 | 15.33 | 219248 | 20.0 |
| Hexadecane, 1-iodo- | 14.64 | 2.6 | ng | 28198 | 6 | 15.33 | 219248 | 20.0 |
| 4,9,13,17-Tetrame... | 14.71 | 5.7 | ng | 62933 | 6 | 15.33 | 219248 | 20.0 |
| Pyrido[2,3-g]indo... | 14.77 | 5.4 | ng | 58787 | 6 | 15.33 | 219248 | 20.0 |
| Benzo[e]pyrene | 15.03 | 2.9 | ng | 31992 | 6 | 15.33 | 219248 | 20.0 |
| Perylene | 15.21 | 9.3 | ng | 102037 | 6 | 15.33 | 219248 | 20.0 |
| Heneicosane | 15.72 | 3.9 | ng | 42555 | 6 | 15.33 | 219248 | 20.0 |
| unknown16.97 | 16.97 | 2.4 | ng | 25889 | 6 | 15.33 | 219248 | 20.0 |