LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

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-BF071219.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 | 2.134 | 3 | 8 | 25 | rVB | 304181 | 428971 | 25.19% | 1.519% |
| 2 | 5.492 | 576 | 579 | 592 | rBV | 1297148 | 1347014 | 79.11% | 4.771% |
| 3 | 6.428 | 733 | 738 | 745 | rBV2 | 32771 | 39694 | 2.33% | 0.141% |
| 4 | 6.504 | 747 | 751 | 769 | rBV | 1631399 | 1453995 | 85.39% | 5.150% |
| 5 | 6.645 | 771 | 775 | 779 | rBV | 1698784 | 1529482 | 89.83% | 5.417% |
| 6 | 6.880 | 811 | 815 | 822 | rBV | 1264169 | 1030675 | 60.53% | 3.650% |
| 7 | 7.033 | 838 | 841 | 845 | rBV | 1373975 | 1188179 | 69.78% | 4.208% |
| 8 | 7.433 | 905 | 909 | 915 | rBV | 1057391 | 883009 | 51.86% | 3.127% |
| 9 | 7.528 | 920 | 925 | 928 | rVB6 | 14097 | 22369 | 1.31% | 0.079% |
| 10 | 7.804 | 970 | 972 | 976 | rVB4 | 21561 | 20171 | 1.18% | 0.071% |
| 11 | 8.163 | 1028 | 1033 | 1036 | rBV | 1490892 | 1301775 | 76.45% | 4.610% |
| 12 | 8.451 | 1075 | 1082 | 1086 | rBV5 | 22985 | 32687 | 1.92% | 0.116% |
| 13 | 8.545 | 1094 | 1098 | 1102 | rVB6 | 13880 | 19874 | 1.17% | 0.070% |
| 14 | 8.586 | 1102 | 1105 | 1107 | rBV | 21514 | 20065 | 1.18% | 0.071% |
| 15 | 8.669 | 1116 | 1119 | 1122 | rBV2 | 21987 | 20160 | 1.18% | 0.071% |
| 16 | 8.710 | 1122 | 1126 | 1131 | rBV2 | 24603 | 30642 | 1.80% | 0.109% |
| 17 | 8.757 | 1131 | 1134 | 1137 | rBV3 | 16053 | 19837 | 1.17% | 0.070% |
| 18 | 8.874 | 1152 | 1154 | 1158 | rVB | 36599 | 28984 | 1.70% | 0.103% |
| 19 | 8.974 | 1168 | 1171 | 1175 | rVB | 52124 | 49997 | 2.94% | 0.177% |
| 20 | 9.186 | 1204 | 1207 | 1211 | rBV3 | 43755 | 40047 | 2.35% | 0.142% |
| 21 | 9.233 | 1211 | 1215 | 1221 | rBV | 2009242 | 1634141 | 95.97% | 5.788% |
| 22 | 9.322 | 1227 | 1230 | 1234 | rBV3 | 33776 | 39484 | 2.32% | 0.140% |
| 23 | 9.433 | 1247 | 1249 | 1253 | rVB2 | 21754 | 23261 | 1.37% | 0.082% |
| 24 | 9.504 | 1257 | 1261 | 1264 | rVV | 35532 | 48849 | 2.87% | 0.173% |
| 25 | 9.574 | 1270 | 1273 | 1275 | rBV | 67007 | 54749 | 3.22% | 0.194% |
| 26 | 9.598 | 1275 | 1277 | 1279 | rVV | 41820 | 35171 | 2.07% | 0.125% |
| 27 | 9.627 | 1279 | 1282 | 1286 | rVV | 187749 | 207169 | 12.17% | 0.734% |
| 28 | 9.692 | 1290 | 1293 | 1298 | rVB2 | 36979 | 41945 | 2.46% | 0.149% |
| 29 | 9.774 | 1305 | 1307 | 1312 | rBV | 60397 | 67388 | 3.96% | 0.239% |
| 30 | 9.916 | 1325 | 1331 | 1334 | rBV | 1782433 | 1484825 | 87.20% | 5.259% |
| 31 | 9.945 | 1334 | 1336 | 1340 | rVB | 87760 | 91113 | 5.35% | 0.323% |
| 32 | 10.021 | 1346 | 1349 | 1353 | rVB2 | 31286 | 40089 | 2.35% | 0.142% |
| 33 | 10.116 | 1362 | 1365 | 1369 | rVB2 | 55980 | 59935 | 3.52% | 0.212% |
| 34 | 10.157 | 1370 | 1372 | 1379 | rVB4 | 34150 | 40661 | 2.39% | 0.144% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 10.233 | 1382 | 1385 | 1388 | rBV2 | 47916 | 49748 | 2.92% | 0.176% |
| 36 | 10.327 | 1396 | 1401 | 1402 | rBV3 | 34948 | 41132 | 2.42% | 0.146% |
| 37 | 10.345 | 1402 | 1404 | 1406 | rVB2 | 44440 | 34241 | 2.01% | 0.121% |
| 38 | 10.416 | 1412 | 1416 | 1418 | rBV4 | 21077 | 23009 | 1.35% | 0.081% |
| 39 | 10.463 | 1421 | 1424 | 1431 | rBV2 | 115584 | 122919 | 7.22% | 0.435% |
| 40 | 10.569 | 1440 | 1442 | 1447 | rVB2 | 41882 | 43575 | 2.56% | 0.154% |
| 41 | 10.621 | 1448 | 1451 | 1455 | rVB3 | 41947 | 42883 | 2.52% | 0.152% |
| 42 | 10.704 | 1461 | 1465 | 1477 | rVB | 1014607 | 978708 | 57.48% | 3.466% |
| 43 | 10.833 | 1482 | 1487 | 1493 | rVB2 | 97081 | 132327 | 7.77% | 0.469% |
| 44 | 10.904 | 1496 | 1499 | 1502 | rBV4 | 26332 | 28857 | 1.69% | 0.102% |
| 45 | 11.010 | 1513 | 1517 | 1520 | rBV3 | 45955 | 59848 | 3.51% | 0.212% |
| 46 | 11.039 | 1520 | 1522 | 1525 | rVB2 | 41664 | 40586 | 2.38% | 0.144% |
| 47 | 11.092 | 1530 | 1531 | 1534 | rVB2 | 29409 | 24592 | 1.44% | 0.087% |
| 48 | 11.210 | 1548 | 1551 | 1555 | rBV4 | 23268 | 24810 | 1.46% | 0.088% |
| 49 | 11.268 | 1555 | 1561 | 1563 | rVV3 | 44370 | 71155 | 4.18% | 0.252% |
| 50 | 11.298 | 1563 | 1566 | 1571 | rVB | 120651 | 126670 | 7.44% | 0.449% |
| 51 | 11.404 | 1580 | 1584 | 1586 | rBV | 1506293 | 1326395 | 77.90% | 4.698% |
| 52 | 11.427 | 1586 | 1588 | 1591 | rVV | 780463 | 605640 | 35.57% | 2.145% |
| 53 | 11.474 | 1594 | 1596 | 1599 | rVB | 206757 | 180818 | 10.62% | 0.640% |
| 54 | 11.515 | 1599 | 1603 | 1605 | rBV2 | 29219 | 35878 | 2.11% | 0.127% |
| 55 | 11.633 | 1620 | 1623 | 1624 | rBV | 30256 | 29948 | 1.76% | 0.106% |
| 56 | 11.698 | 1631 | 1634 | 1636 | rVB | 53139 | 47200 | 2.77% | 0.167% |
| 57 | 11.733 | 1637 | 1640 | 1646 | rVB | 54166 | 61884 | 3.63% | 0.219% |
| 58 | 11.815 | 1652 | 1654 | 1659 | rVB | 34436 | 35210 | 2.07% | 0.125% |
| 59 | 11.857 | 1659 | 1661 | 1663 | rBV2 | 22679 | 20485 | 1.20% | 0.073% |
| 60 | 11.904 | 1666 | 1669 | 1671 | rVV | 148179 | 160915 | 9.45% | 0.570% |
| 61 | 11.927 | 1671 | 1673 | 1679 | rVV2 | 264890 | 327219 | 19.22% | 1.159% |
| 62 | 11.980 | 1679 | 1682 | 1684 | rVV | 84310 | 86203 | 5.06% | 0.305% |
| 63 | 12.015 | 1684 | 1688 | 1690 | rVV | 262507 | 284495 | 16.71% | 1.008% |
| 64 | 12.039 | 1690 | 1692 | 1696 | rVB | 118371 | 101022 | 5.93% | 0.358% |
| 65 | 12.104 | 1700 | 1703 | 1706 | rVV2 | 46217 | 46518 | 2.73% | 0.165% |
| 66 | 12.139 | 1707 | 1709 | 1711 | rVB | 42633 | 31609 | 1.86% | 0.112% |
| 67 | 12.198 | 1716 | 1719 | 1721 | rVV | 105983 | 91251 | 5.36% | 0.323% |
| 68 | 12.221 | 1721 | 1723 | 1727 | rVB2 | 47449 | 62625 | 3.68% | 0.222% |
| 69 | 12.333 | 1739 | 1742 | 1743 | rBV | 45468 | 43114 | 2.53% | 0.153% |
| 70 | 12.380 | 1747 | 1750 | 1752 | rBV2 | 61040 | 58252 | 3.42% | 0.206% |
| 71 | 12.451 | 1759 | 1762 | 1765 | rBV | 125488 | 138589 | 8.14% | 0.491% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

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-BF071219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.492 | 1765 | 1769 | 1774 | rVB4 | 110647 | 170961 | 10.04% | 0.605% |
| 73 | 12.539 | 1774 | 1777 | 1781 | rBV2 | 77244 | 98974 | 5.81% | 0.351% |
| 74 | 12.615 | 1786 | 1790 | 1793 | rBV | 1343265 | 1113072 | 65.37% | 3.942% |
| 75 | 12.657 | 1795 | 1797 | 1799 | rBV2 | 36465 | 34741 | 2.04% | 0.123% |
| 76 | 12.710 | 1803 | 1806 | 1814 | rBV2 | 337778 | 439217 | 25.80% | 1.556% |
| 77 | 12.768 | 1814 | 1816 | 1819 | rVV2 | 70867 | 74763 | 4.39% | 0.265% |
| 78 | 12.845 | 1823 | 1829 | 1835 | rBV | 1195806 | 1285266 | 75.48% | 4.552% |
| 79 | 12.980 | 1849 | 1852 | 1856 | rBV | 1322244 | 1207253 | 70.90% | 4.276% |
| 80 | 13.062 | 1863 | 1866 | 1869 | rBV2 | 76454 | 110015 | 6.46% | 0.390% |
| 81 | 13.174 | 1882 | 1885 | 1888 | rVB | 183824 | 177702 | 10.44% | 0.629% |
| 82 | 13.239 | 1894 | 1896 | 1898 | rVB | 122290 | 85767 | 5.04% | 0.304% |
| 83 | 13.280 | 1900 | 1903 | 1906 | rBV2 | 114056 | 125698 | 7.38% | 0.445% |
| 84 | 13.398 | 1921 | 1923 | 1927 | rBV | 74542 | 79547 | 4.67% | 0.282% |
| 85 | 14.045 | 2028 | 2033 | 2035 | rBV2 | 1386451 | 1702713 | 100.00% | 6.030% |
| 86 | 14.068 | 2035 | 2037 | 2040 | rVB | 465249 | 353057 | 20.73% | 1.250% |
| 87 | 15.092 | 2208 | 2211 | 2214 | rBV | 327810 | 476328 | 27.97% | 1.687% |
| 88 | 15.456 | 2271 | 2273 | 2280 | rVB | 249783 | 316741 | 18.60% | 1.122% |
| 89 | 15.527 | 2281 | 2285 | 2295 | rVB | 812738 | 1387007 | 81.46% | 4.912% |

Sum of corrected areas: 28235559

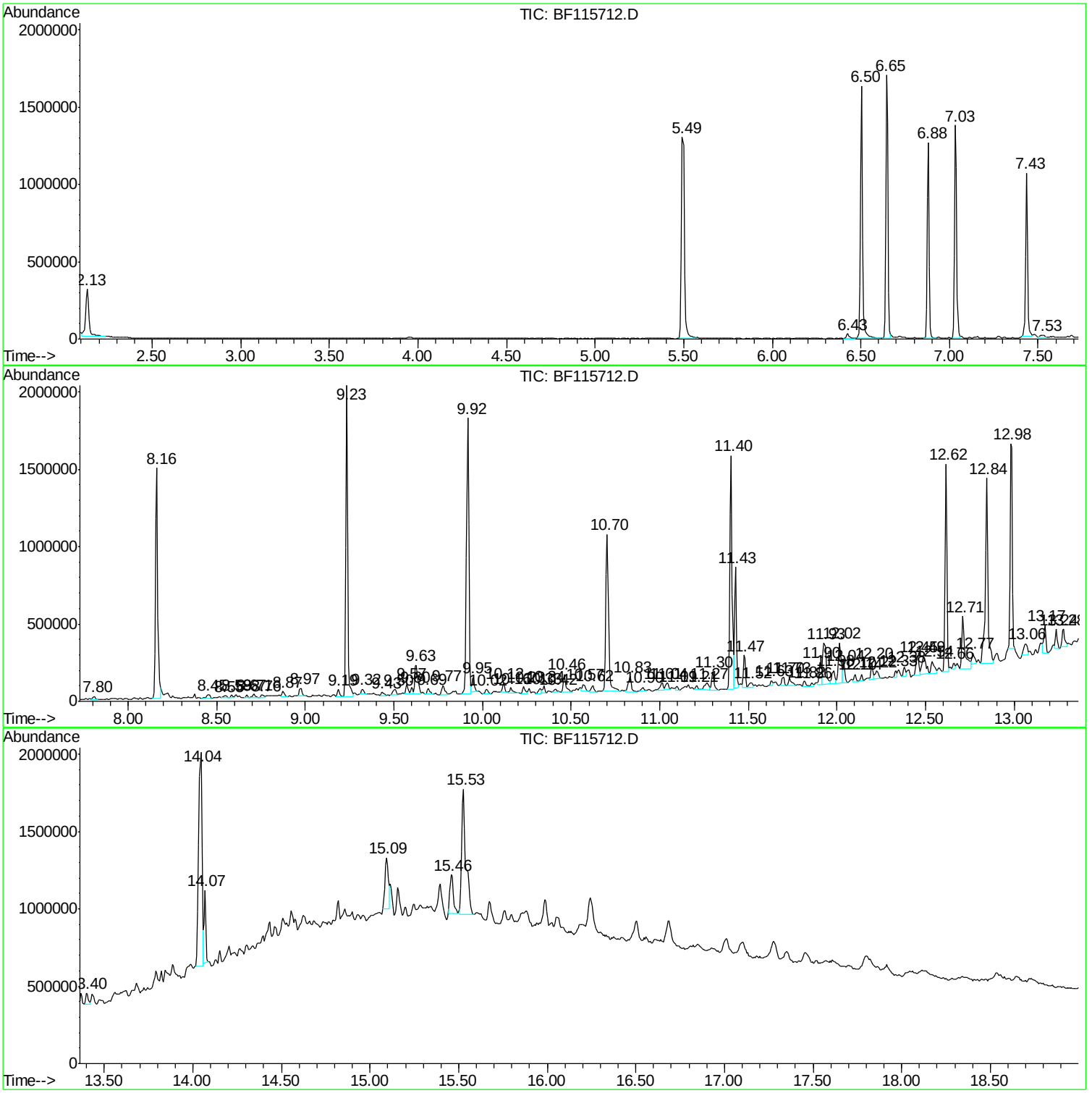
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

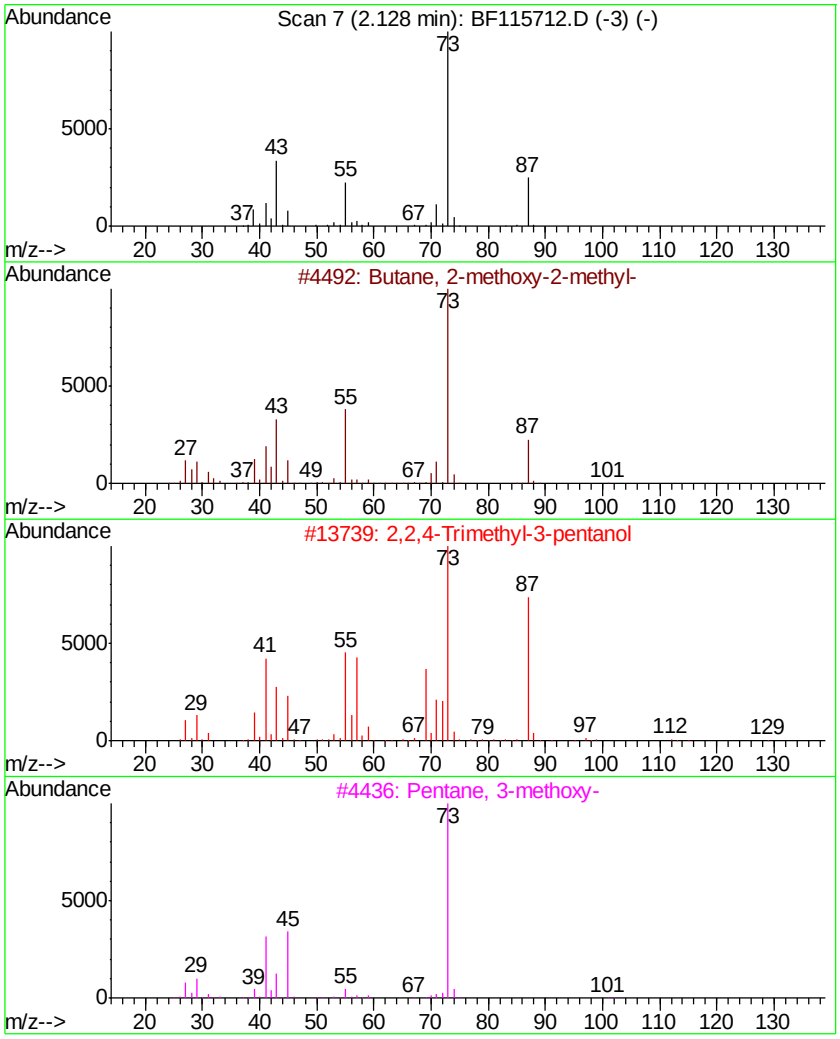
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

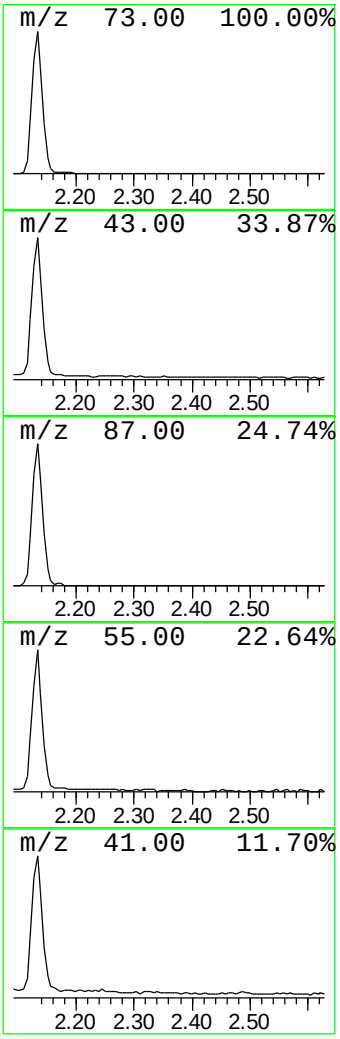
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.13 | 8.32 ng | 428971 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 83 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | Pentane, 3-methoxy- | 102 | C6H14O | 036839-67-5 | 23 |
| 4 | Silane, tetramethyl- | 88 | C4H12Si | 000075-76-3 | 17 |
| 5 | Acetamide, N-ethyl- | 87 | C4H9NO | 000625-50-3 | 9 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

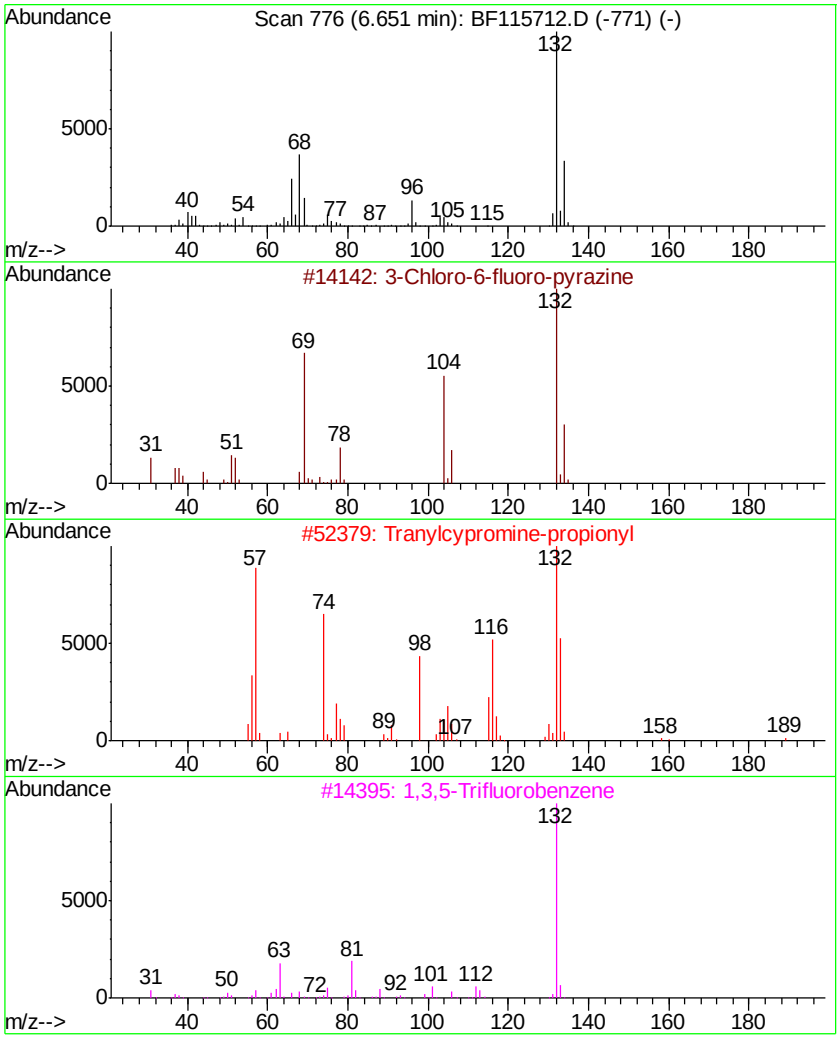
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

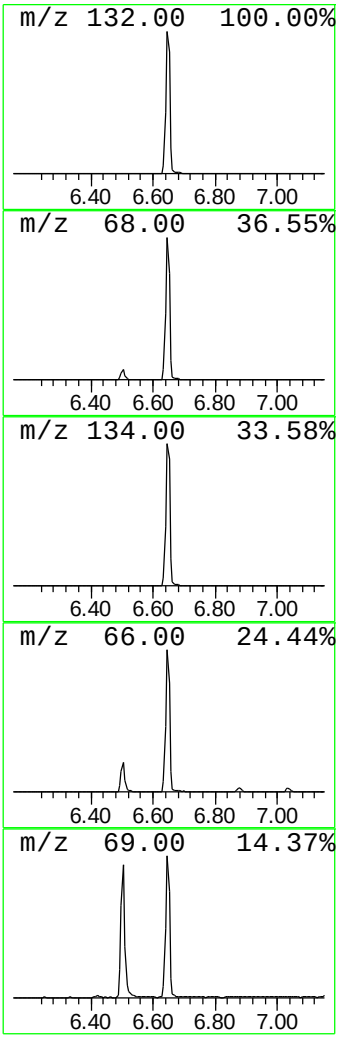
**********

Peak Number 2 unknown6.65 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.65 | 29.68 ng | 1529480 | 1,4-Dichlorobenzene-d4 | 6.88 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 3 | 1,3,5-Trifluorobenzene | 132 | C6H3F3 | 000372-38-3 | 9 |
| 4 | Xenon | 132 | Xe | 007440-63-3 | 9 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

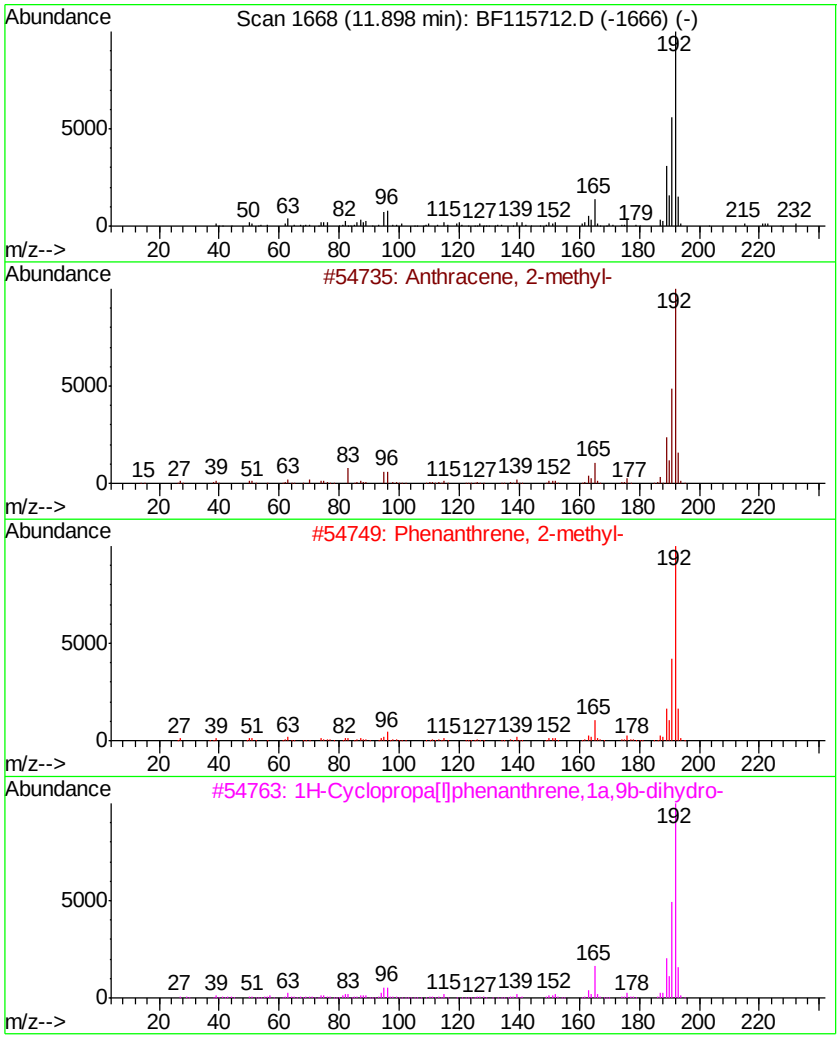
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

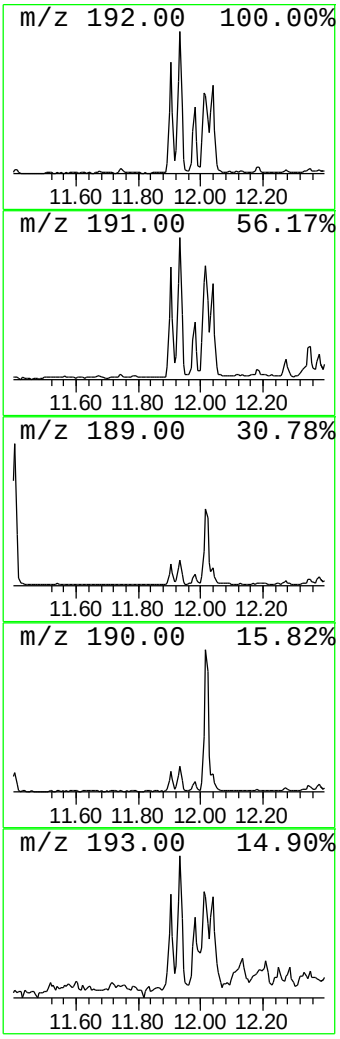
**********

Peak Number 4 Anthracene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.90 | 2.43 ng | 160915 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 96 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 94 |
| 3 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 91 |
| 4 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

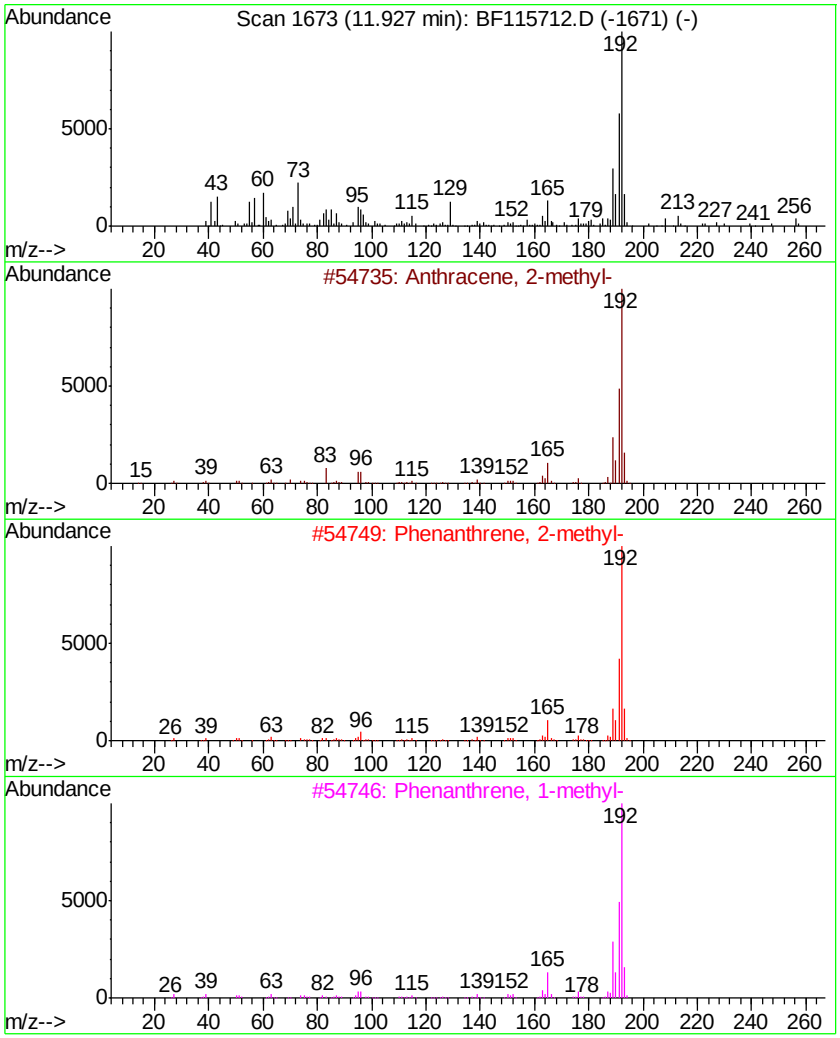
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

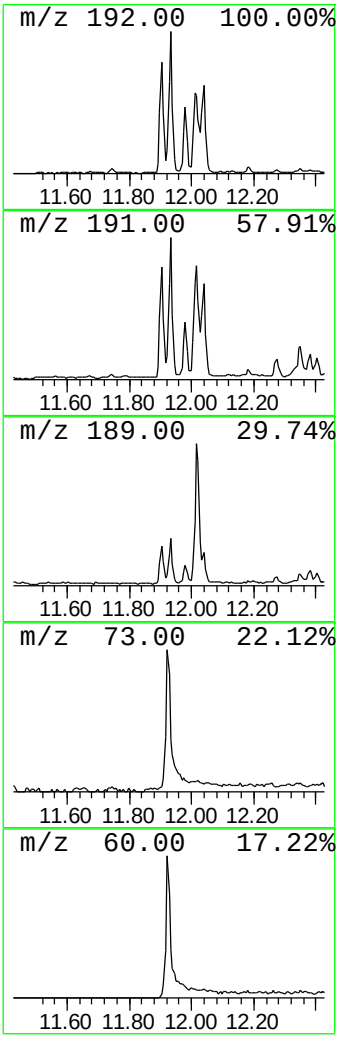
**********

Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.93 | 4.93 ng | 327219 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 97 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | 1H-Indene, 2-phenyl- | 192 | C15H12 | 004505-48-0 | 95 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 93 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

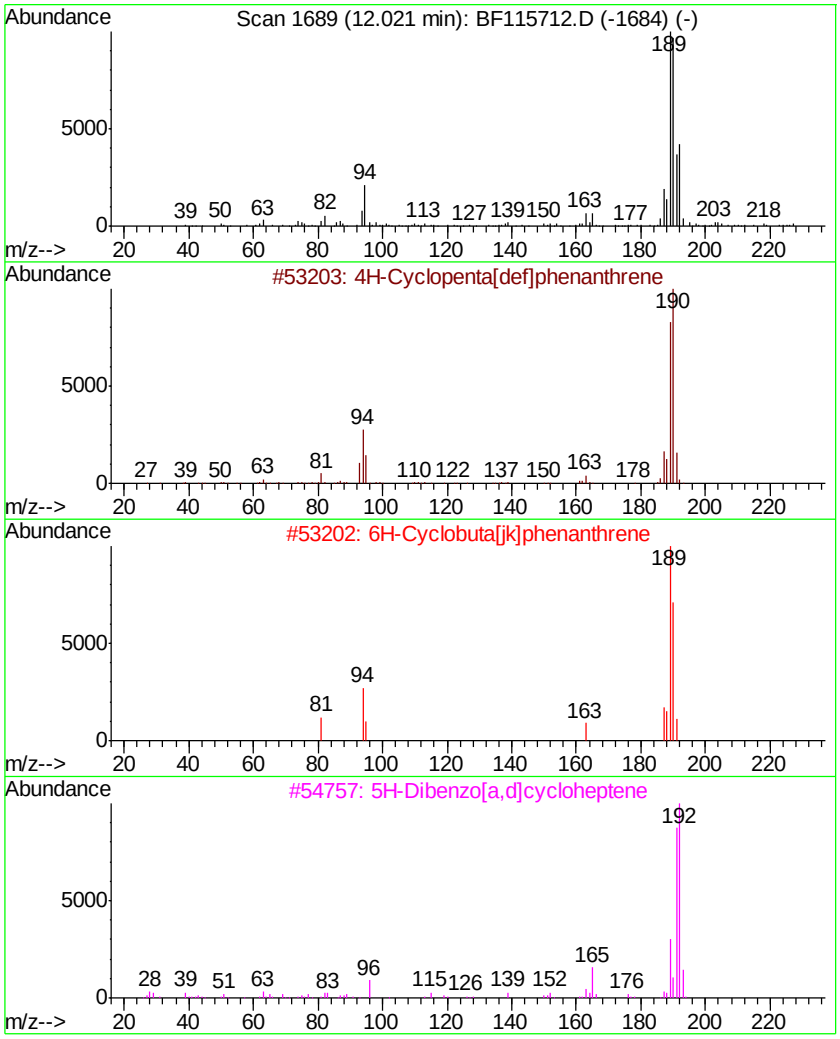
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

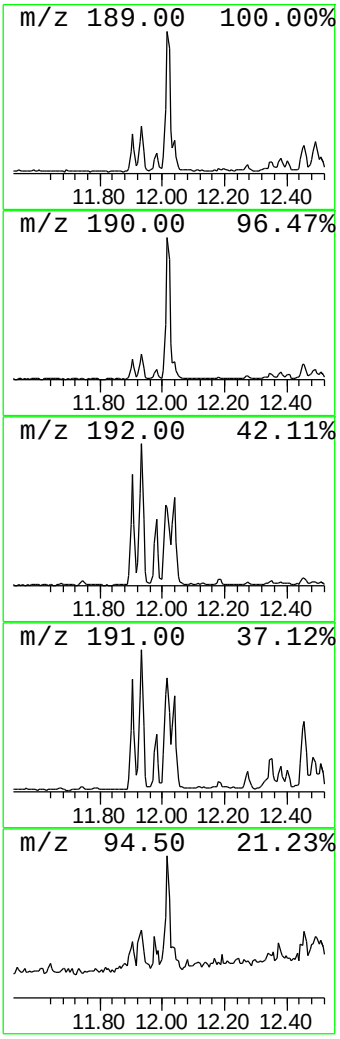
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.02 | 4.29 ng | 284495 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 92 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 3 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 38 |
| 4 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 18 |
| 5 | Propyne, 1,3-diphenyl- | 192 | C15H12 | 004980-70-5 | 14 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

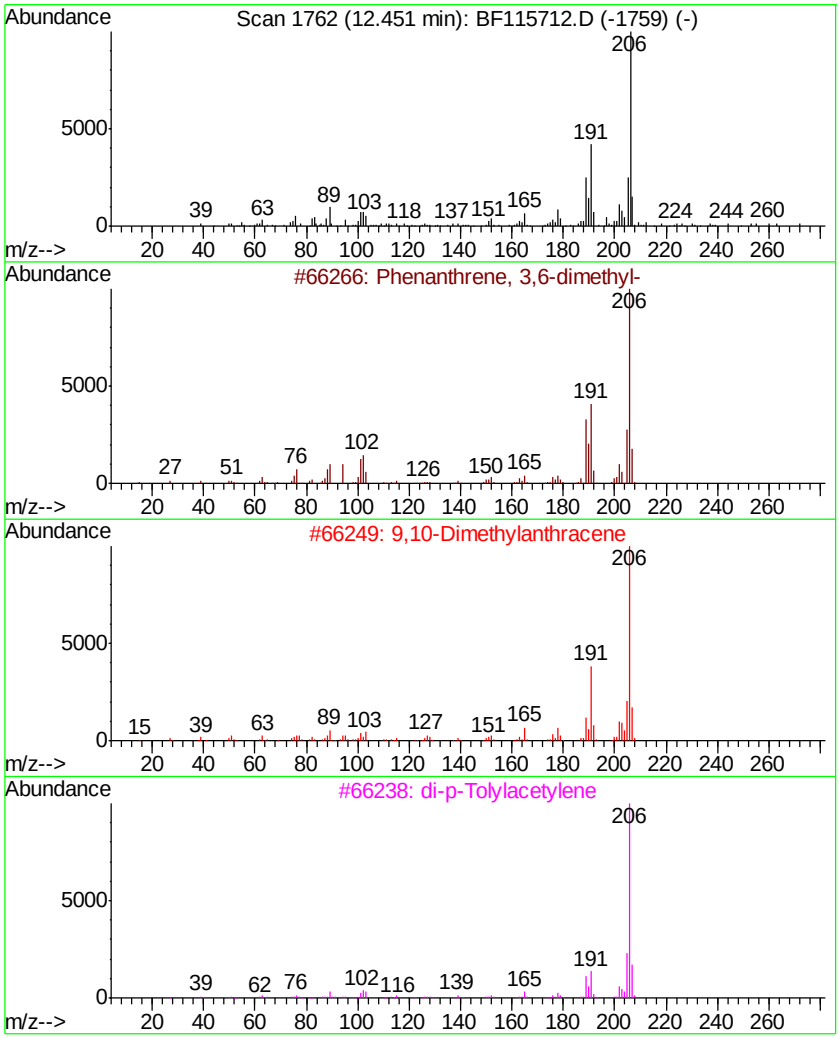
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

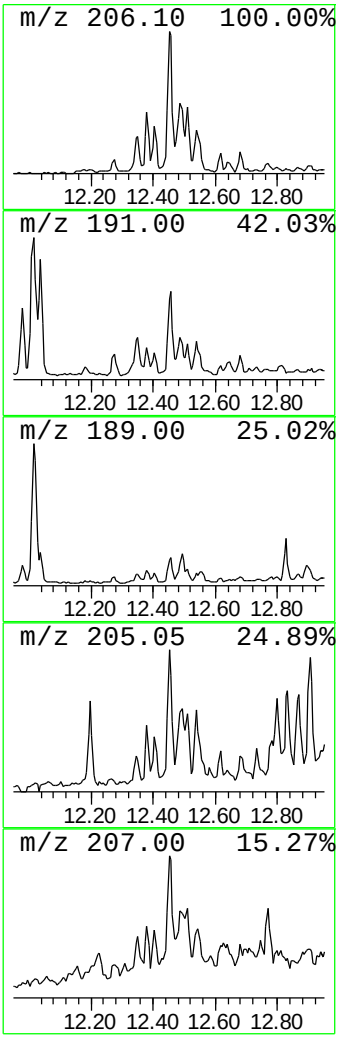
**********

Peak Number 7 Phenanthrene, 3,6-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.45 | 2.09 ng | 138589 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 94 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 93 |
| 3 | di-p-Tolylacetylene | 206 | C16H14 | 002789-88-0 | 93 |
| 4 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 93 |
| 5 | Phenanthrene, 1,7-dimethyl- | 206 | C16H14 | 000483-87-4 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

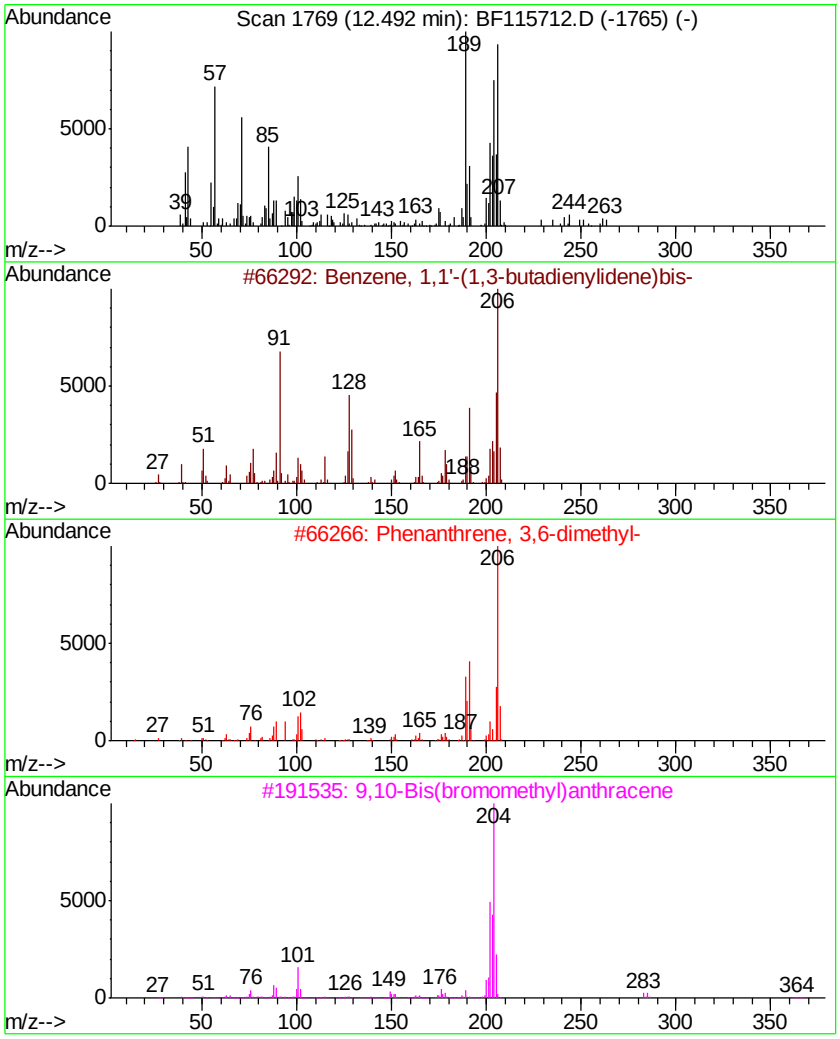
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

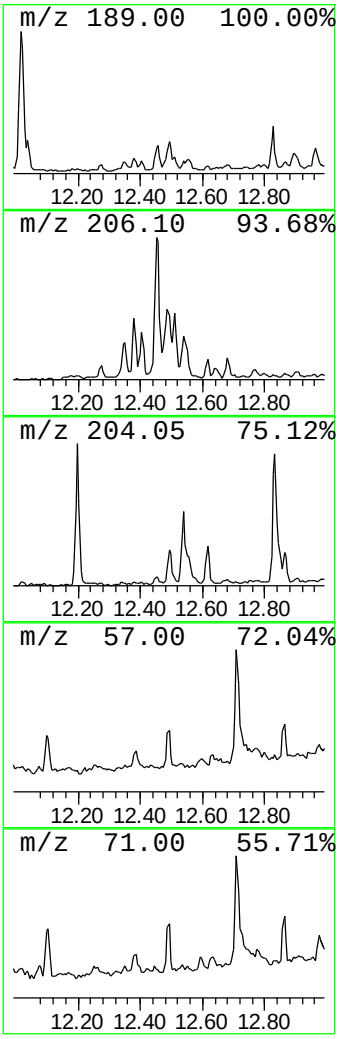
**********

Peak Number 8 unknown12.49 Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.49 | 2.58 ng | 170961 | Phenanthrene-d10 | 11.40 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,1'-(1,3-butadienylide... | 206 | C16H14 | 004165-81-5 | 30 |
| 2 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 30 |
| 3 | 9,10-Bis(bromomethyl)anthracene | 362 | C16H12Br2 | 034373-96-1 | 27 |
| 4 | 3-Methoxy-2,4,5-trifluorobenzoic... | 248 | C11H11F3O3 | 1000338-75-8 | 27 |
| 5 | Pyrene, 4,5,9,10-tetrahydro- | 206 | C16H14 | 000781-17-9 | 25 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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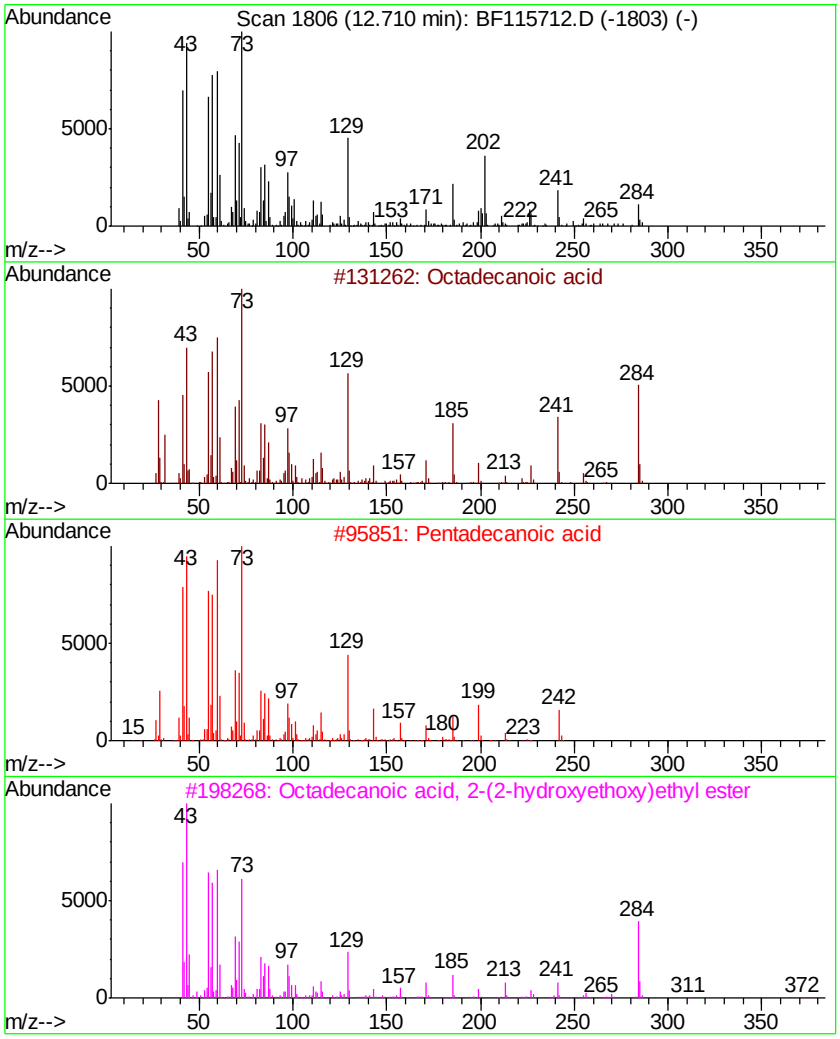
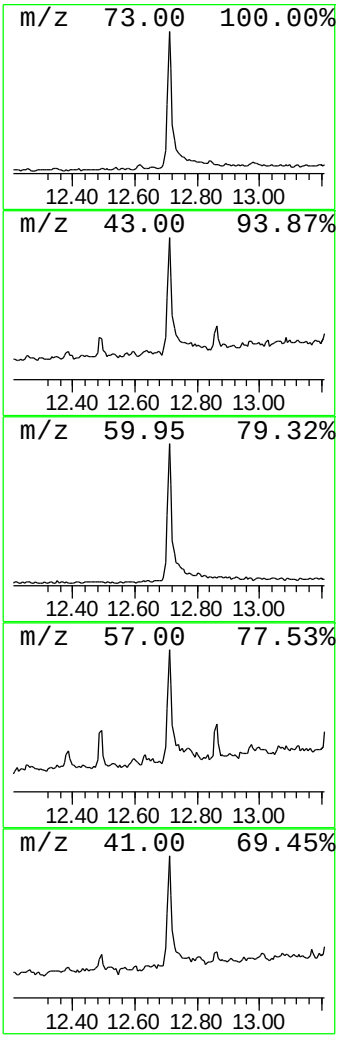
Peak Number 9 Octadecanoic acid Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.71 | 6.62 ng | 439217 | Phenanthrene-d10 | 11.40 |

| 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 | 93 |
| 3 | Octadecanoic acid, 2-(2-hydroxye... | 372 | C22H44O4 | 000106-11-6 | 87 |
| 4 | Dodecanoic acid | 200 | C12H24O2 | 000143-07-7 | 74 |
| 5 | Tetradecanoic acid | 228 | C14H28O2 | 000544-63-8 | 74 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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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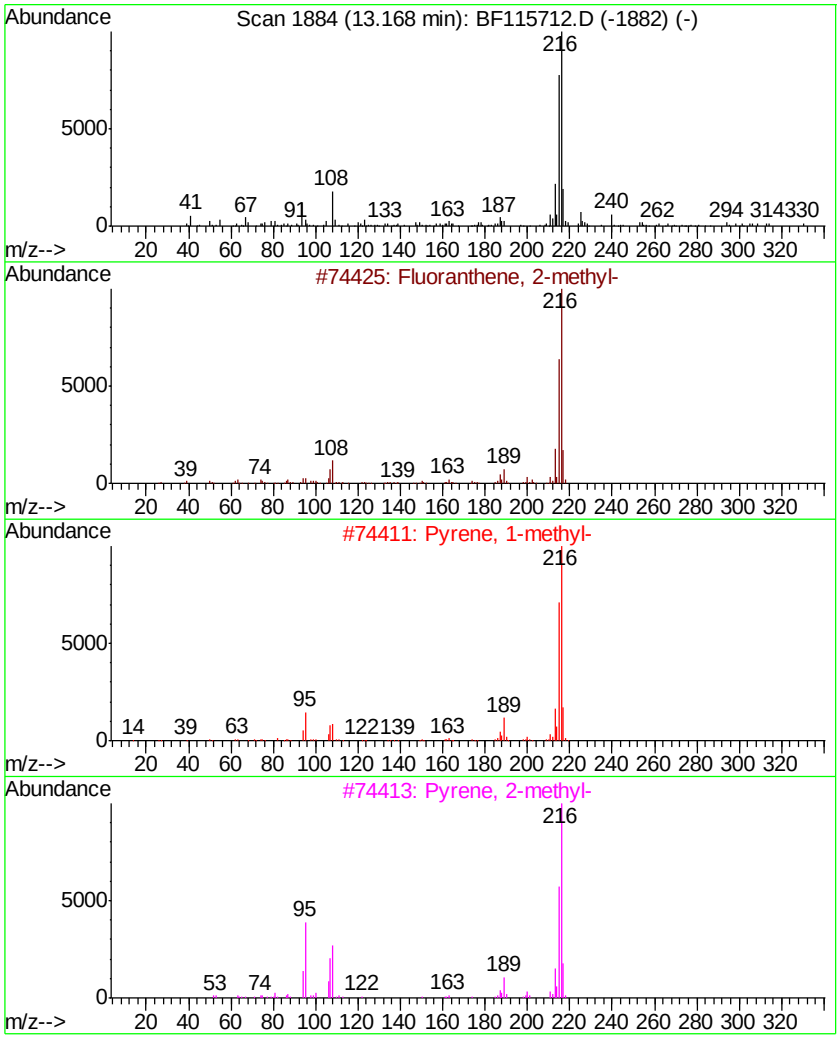
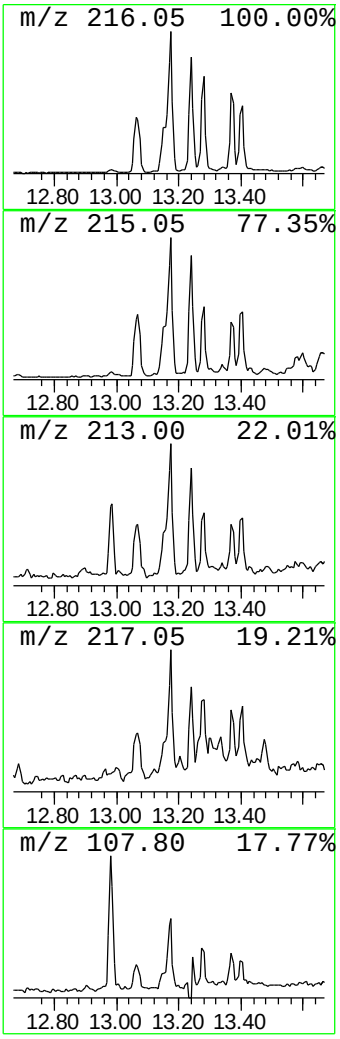
Peak Number 10 Fluoranthene, 2-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.17 | 2.09 ng | 177702 | Chrysene-d12 | 14.04 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 2 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 87 |
| 3 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 86 |
| 4 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 86 |
| 5 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 86 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF072219\
Data File : BF115712.D
Acq On : 22 Jul 2019 16:33
Operator : HP/JU
Sample : K3622-09 2X
Misc :
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** OR-02-071919-A

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF071219.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 |
| Butane, 2-methoxy... | 2.13 | 8.3 | ng | 428971 | 1 | 6.88 | 1030680 | 20.0 |
| unknown6.65 | 6.65 | 29.7 | ng | 1529480 | 1 | 6.88 | 1030680 | 20.0 |
| Anthracene, 2-met... | 11.90 | 2.4 | ng | 160915 | 4 | 11.40 | 1326400 | 20.0 |
| Phenanthrene, 2-m... | 11.93 | 4.9 | ng | 327219 | 4 | 11.40 | 1326400 | 20.0 |
| 4H-Cyclopenta[def... | 12.02 | 4.3 | ng | 284495 | 4 | 11.40 | 1326400 | 20.0 |
| Phenanthrene, 3,6... | 12.45 | 2.1 | ng | 138589 | 4 | 11.40 | 1326400 | 20.0 |
| unknown12.49 | 12.49 | 2.6 | ng | 170961 | 4 | 11.40 | 1326400 | 20.0 |
| Octadecanoic acid | 12.71 | 6.6 | ng | 439217 | 4 | 11.40 | 1326400 | 20.0 |
| Fluoranthene, 2-m... | 13.17 | 2.1 | ng | 177702 | 5 | 14.04 | 1702710 | 20.0 |