LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

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-BF042219.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 | 5.510 | 578 | 582 | 594 | rBV | 589397 | 571122 | 8.96% | 0.770% |
| 2 | 6.516 | 749 | 753 | 763 | rVB | 622069 | 585885 | 9.19% | 0.789% |
| 3 | 6.663 | 774 | 778 | 782 | rBV | 775147 | 615763 | 9.66% | 0.830% |
| 4 | 6.898 | 814 | 818 | 821 | rBV | 1145567 | 905648 | 14.21% | 1.220% |
| 5 | 7.051 | 841 | 844 | 848 | rBV | 557238 | 488555 | 7.67% | 0.658% |
| 6 | 7.451 | 906 | 912 | 916 | rBV | 366502 | 331684 | 5.20% | 0.447% |
| 7 | 8.181 | 1031 | 1036 | 1038 | rBV | 1367896 | 1143292 | 17.94% | 1.541% |
| 8 | 8.198 | 1038 | 1039 | 1043 | rVB | 217878 | 141548 | 2.22% | 0.191% |
| 9 | 8.892 | 1154 | 1157 | 1162 | rVB | 223717 | 177618 | 2.79% | 0.239% |
| 10 | 8.992 | 1169 | 1174 | 1178 | rBV | 227777 | 204110 | 3.20% | 0.275% |
| 11 | 9.251 | 1214 | 1218 | 1221 | rBV | 914840 | 706221 | 11.08% | 0.952% |
| 12 | 9.516 | 1259 | 1263 | 1267 | rBV | 139721 | 186033 | 2.92% | 0.251% |
| 13 | 9.592 | 1271 | 1276 | 1278 | rBV | 264469 | 236185 | 3.71% | 0.318% |
| 14 | 9.710 | 1293 | 1296 | 1302 | rVB | 143710 | 155388 | 2.44% | 0.209% |
| 15 | 9.792 | 1307 | 1310 | 1315 | rVV | 466738 | 391874 | 6.15% | 0.528% |
| 16 | 9.933 | 1331 | 1334 | 1337 | rVB2 | 1488573 | 1240489 | 19.47% | 1.671% |
| 17 | 9.963 | 1337 | 1339 | 1342 | rVB | 494938 | 424589 | 6.66% | 0.572% |
| 18 | 10.139 | 1365 | 1369 | 1372 | rVB | 474646 | 433639 | 6.80% | 0.584% |
| 19 | 10.251 | 1384 | 1388 | 1391 | rBV2 | 103578 | 110457 | 1.73% | 0.149% |
| 20 | 10.480 | 1424 | 1427 | 1433 | rVB | 1039636 | 883913 | 13.87% | 1.191% |
| 21 | 10.639 | 1451 | 1454 | 1457 | rVB | 166756 | 152665 | 2.40% | 0.206% |
| 22 | 10.716 | 1462 | 1467 | 1471 | rBV | 719052 | 690156 | 10.83% | 0.930% |
| 23 | 10.845 | 1485 | 1489 | 1495 | rVB3 | 146277 | 198011 | 3.11% | 0.267% |
| 24 | 11.027 | 1515 | 1520 | 1523 | rBV2 | 236585 | 262616 | 4.12% | 0.354% |
| 25 | 11.057 | 1523 | 1525 | 1528 | rVV2 | 144398 | 132367 | 2.08% | 0.178% |
| 26 | 11.110 | 1531 | 1534 | 1537 | rVB | 130620 | 119416 | 1.87% | 0.161% |
| 27 | 11.157 | 1537 | 1542 | 1544 | rBV3 | 91549 | 129634 | 2.03% | 0.175% |
| 28 | 11.180 | 1544 | 1546 | 1550 | rVV | 131895 | 135407 | 2.12% | 0.182% |
| 29 | 11.222 | 1550 | 1553 | 1557 | rVV | 190131 | 196943 | 3.09% | 0.265% |
| 30 | 11.269 | 1558 | 1561 | 1563 | rVV | 99984 | 117640 | 1.85% | 0.159% |
| 31 | 11.316 | 1566 | 1569 | 1575 | rVB | 568490 | 508063 | 7.97% | 0.685% |
| 32 | 11.422 | 1583 | 1587 | 1589 | rBV | 1575759 | 1673055 | 26.25% | 2.254% |
| 33 | 11.451 | 1589 | 1592 | 1594 | rVV | 4633148 | 4334663 | 68.02% | 5.841% |
| 34 | 11.498 | 1594 | 1600 | 1602 | rVV | 1611433 | 1476035 | 23.16% | 1.989% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

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-BF042219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.522 | 1602 | 1604 | 1608 | rVB2 | 153834 | 169256 | 2.66% | 0.228% |
| 36 | 11.639 | 1619 | 1624 | 1627 | rBV | 483118 | 499199 | 7.83% | 0.673% |
| 37 | 11.716 | 1633 | 1637 | 1639 | rBV | 208653 | 176862 | 2.78% | 0.238% |
| 38 | 11.751 | 1639 | 1643 | 1648 | rVB2 | 304636 | 283340 | 4.45% | 0.382% |
| 39 | 11.810 | 1650 | 1653 | 1655 | rVV | 284247 | 227339 | 3.57% | 0.306% |
| 40 | 11.833 | 1655 | 1657 | 1660 | rVB | 185214 | 168218 | 2.64% | 0.227% |
| 41 | 11.921 | 1666 | 1672 | 1674 | rBV | 854166 | 803118 | 12.60% | 1.082% |
| 42 | 11.951 | 1674 | 1677 | 1681 | rVB | 1073591 | 1020919 | 16.02% | 1.376% |
| 43 | 11.998 | 1681 | 1685 | 1687 | rBV | 374416 | 349803 | 5.49% | 0.471% |
| 44 | 12.033 | 1687 | 1691 | 1693 | rVV | 1450968 | 1459231 | 22.90% | 1.966% |
| 45 | 12.057 | 1693 | 1695 | 1699 | rVB | 601269 | 480189 | 7.54% | 0.647% |
| 46 | 12.216 | 1719 | 1722 | 1724 | rVV | 601442 | 558456 | 8.76% | 0.752% |
| 47 | 12.239 | 1724 | 1726 | 1733 | rVB2 | 345946 | 364325 | 5.72% | 0.491% |
| 48 | 12.345 | 1742 | 1744 | 1746 | rBV | 103398 | 108777 | 1.71% | 0.147% |
| 49 | 12.363 | 1746 | 1747 | 1750 | rVV2 | 169182 | 128730 | 2.02% | 0.173% |
| 50 | 12.398 | 1750 | 1753 | 1755 | rVV | 200492 | 182900 | 2.87% | 0.246% |
| 51 | 12.421 | 1755 | 1757 | 1759 | rVB2 | 181281 | 143759 | 2.26% | 0.194% |
| 52 | 12.474 | 1759 | 1766 | 1768 | rBV | 504254 | 635915 | 9.98% | 0.857% |
| 53 | 12.498 | 1768 | 1770 | 1772 | rVV2 | 1002624 | 1008544 | 15.83% | 1.359% |
| 54 | 12.521 | 1772 | 1774 | 1777 | rVV2 | 1116678 | 1035326 | 16.25% | 1.395% |
| 55 | 12.557 | 1777 | 1780 | 1785 | rVB | 455707 | 507719 | 7.97% | 0.684% |
| 56 | 12.604 | 1785 | 1788 | 1789 | rBV2 | 148090 | 122111 | 1.92% | 0.165% |
| 57 | 12.639 | 1789 | 1794 | 1797 | rVV | 5406273 | 5872211 | 92.15% | 7.912% |
| 58 | 12.680 | 1797 | 1801 | 1802 | rVV | 118228 | 110220 | 1.73% | 0.149% |
| 59 | 12.727 | 1806 | 1809 | 1812 | rVB | 206512 | 166143 | 2.61% | 0.224% |
| 60 | 12.763 | 1812 | 1815 | 1816 | rBV2 | 104637 | 105547 | 1.66% | 0.142% |
| 61 | 12.786 | 1816 | 1819 | 1823 | rVB | 309032 | 293816 | 4.61% | 0.396% |
| 62 | 12.868 | 1826 | 1833 | 1838 | rBV2 | 4780034 | 6372540 | 100.00% | 8.587% |
| 63 | 12.910 | 1838 | 1840 | 1845 | rVB2 | 261215 | 330774 | 5.19% | 0.446% |
| 64 | 12.980 | 1849 | 1852 | 1853 | rBV | 370807 | 306604 | 4.81% | 0.413% |
| 65 | 12.998 | 1853 | 1855 | 1864 | rVB2 | 1115055 | 1286744 | 20.19% | 1.734% |
| 66 | 13.080 | 1864 | 1869 | 1872 | rBV2 | 517169 | 820878 | 12.88% | 1.106% |
| 67 | 13.139 | 1876 | 1879 | 1881 | rBV2 | 155191 | 188914 | 2.96% | 0.255% |
| 68 | 13.168 | 1881 | 1884 | 1885 | rBV2 | 374450 | 402998 | 6.32% | 0.543% |
| 69 | 13.192 | 1885 | 1888 | 1891 | rVB | 983395 | 947960 | 14.88% | 1.277% |
| 70 | 13.257 | 1891 | 1899 | 1901 | rBV2 | 880160 | 962571 | 15.10% | 1.297% |
| 71 | 13.292 | 1901 | 1905 | 1908 | rBV2 | 668660 | 694262 | 10.89% | 0.935% |

LSC Area Percent Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
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Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

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-BF042219.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.351 | 1913 | 1915 | 1918 | rBV3 | 113392 | 113236 | 1.78% | 0.153% |
| 73 | 13.386 | 1918 | 1921 | 1923 | rVV | 428687 | 334943 | 5.26% | 0.451% |
| 74 | 13.416 | 1923 | 1926 | 1929 | rVB | 453806 | 384884 | 6.04% | 0.519% |
| 75 | 13.692 | 1970 | 1973 | 1978 | rVB | 472597 | 549013 | 8.62% | 0.740% |
| 76 | 13.810 | 1988 | 1993 | 1995 | rBV3 | 574760 | 743671 | 11.67% | 1.002% |
| 77 | 13.833 | 1995 | 1997 | 2000 | rVV | 515852 | 535771 | 8.41% | 0.722% |
| 78 | 13.863 | 2000 | 2002 | 2005 | rVV2 | 468476 | 571487 | 8.97% | 0.770% |
| 79 | 13.904 | 2006 | 2009 | 2013 | rVB | 401943 | 462769 | 7.26% | 0.624% |
| 80 | 13.974 | 2019 | 2021 | 2027 | rBV | 132098 | 169783 | 2.66% | 0.229% |
| 81 | 14.057 | 2028 | 2035 | 2038 | rBV4 | 3190263 | 5406686 | 84.84% | 7.285% |
| 82 | 14.092 | 2038 | 2041 | 2045 | rVB | 2420244 | 2467105 | 38.71% | 3.324% |
| 83 | 14.168 | 2051 | 2054 | 2056 | rBV | 309354 | 252905 | 3.97% | 0.341% |
| 84 | 14.198 | 2057 | 2059 | 2061 | rBV | 202444 | 179110 | 2.81% | 0.241% |
| 85 | 14.274 | 2069 | 2072 | 2077 | rBV2 | 301261 | 368127 | 5.78% | 0.496% |
| 86 | 14.315 | 2077 | 2079 | 2085 | rVB2 | 181696 | 208015 | 3.26% | 0.280% |
| 87 | 14.410 | 2093 | 2095 | 2097 | rBV | 139428 | 140671 | 2.21% | 0.190% |
| 88 | 14.445 | 2098 | 2101 | 2104 | rVV | 564036 | 584188 | 9.17% | 0.787% |
| 89 | 14.480 | 2104 | 2107 | 2110 | rVB | 337117 | 296860 | 4.66% | 0.400% |
| 90 | 14.574 | 2120 | 2123 | 2124 | rBV2 | 301858 | 272828 | 4.28% | 0.368% |
| 91 | 14.592 | 2124 | 2126 | 2129 | rVB3 | 312051 | 287347 | 4.51% | 0.387% |
| 92 | 14.839 | 2166 | 2168 | 2171 | rBV | 132878 | 121829 | 1.91% | 0.164% |
| 93 | 15.115 | 2210 | 2215 | 2218 | rBV | 1641818 | 2849924 | 44.72% | 3.840% |
| 94 | 15.215 | 2229 | 2232 | 2237 | rVB | 380225 | 434335 | 6.82% | 0.585% |
| 95 | 15.421 | 2262 | 2267 | 2272 | rVB | 932022 | 1269137 | 19.92% | 1.710% |
| 96 | 15.480 | 2273 | 2277 | 2283 | rVV | 1383033 | 1830067 | 28.72% | 2.466% |
| 97 | 15.545 | 2284 | 2288 | 2291 | rVV | 865751 | 1152597 | 18.09% | 1.553% |
| 98 | 15.574 | 2291 | 2293 | 2300 | rVB2 | 568971 | 692802 | 10.87% | 0.934% |
| 99 | 17.033 | 2536 | 2541 | 2549 | rVB2 | 638697 | 1282767 | 20.13% | 1.728% |
| 100 | 17.486 | 2613 | 2618 | 2628 | rVB | 424491 | 895120 | 14.05% | 1.206% |

Sum of corrected areas: 74214879

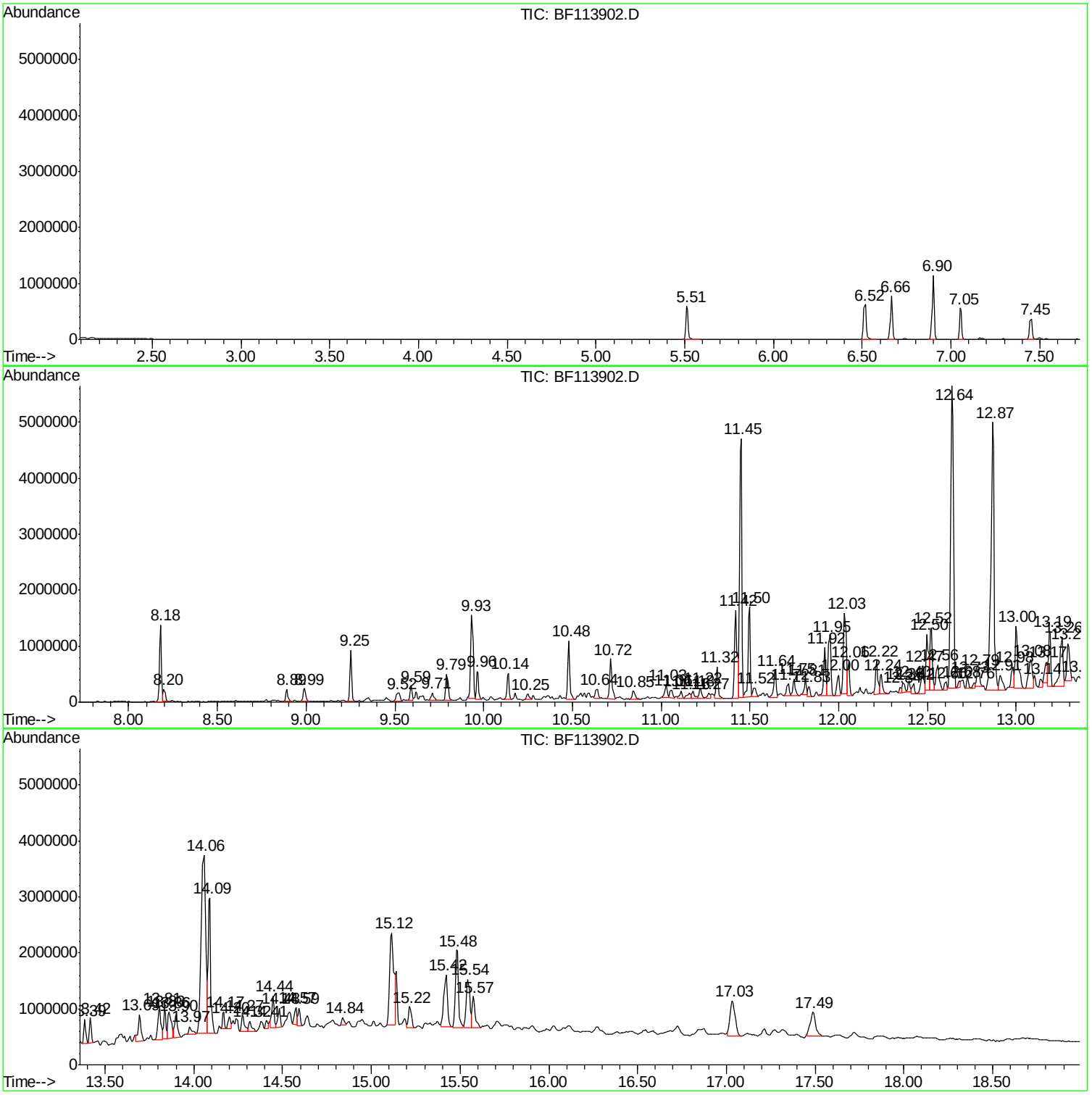
LSC Report - Integrated Chromatogram

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :**
BNA_F
**ClientSampleId :**
PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

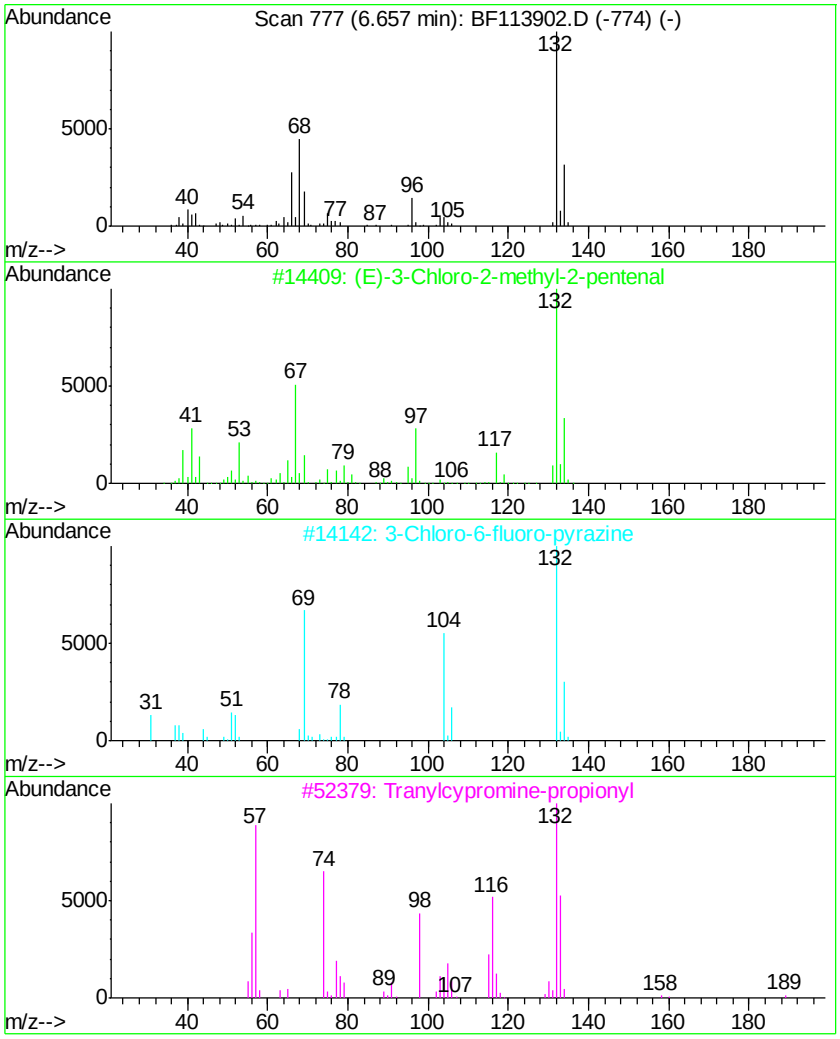
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

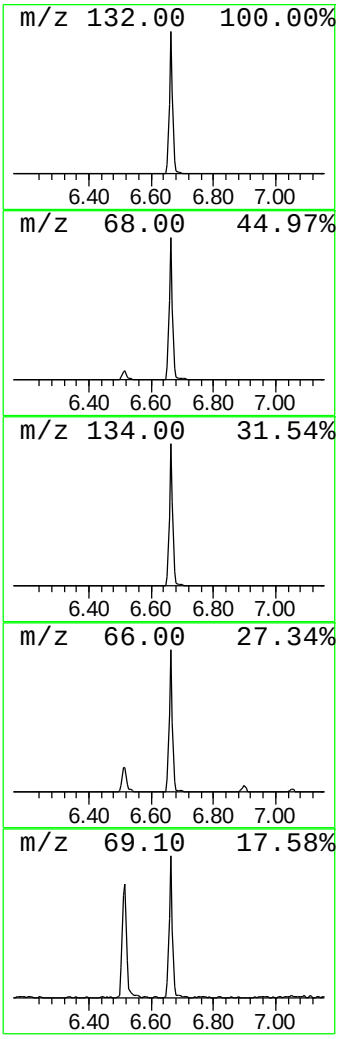
**********

Peak Number 1 unknown6.66 Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.66 | 13.60 ng | 615763 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 2 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 16 |
| 3 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 4 | 4-Chloro-2-fluoro-pyrimidine | 132 | C4H2ClFN2 | 051422-00-5 | 9 |
| 5 | 5-Fluoro-2-chloropyrimidine | 132 | C4H2ClFN2 | 062802-42-0 | 9 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
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Sample : K2201-03 5X
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ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

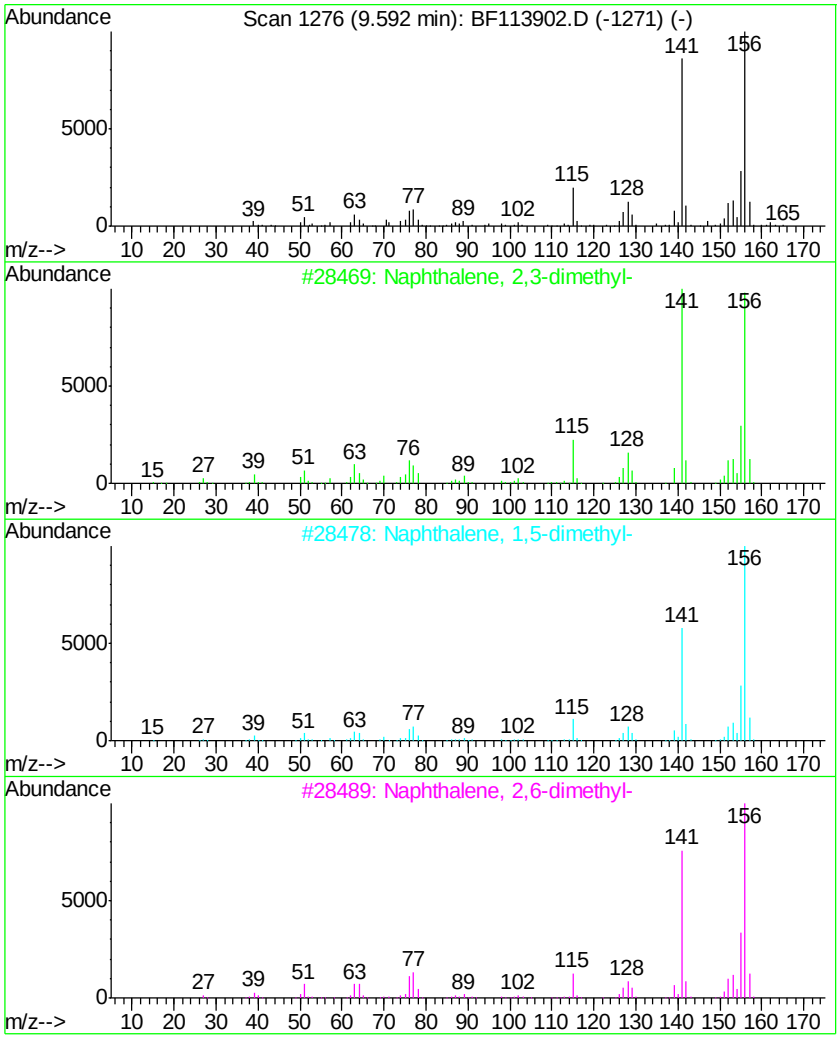
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

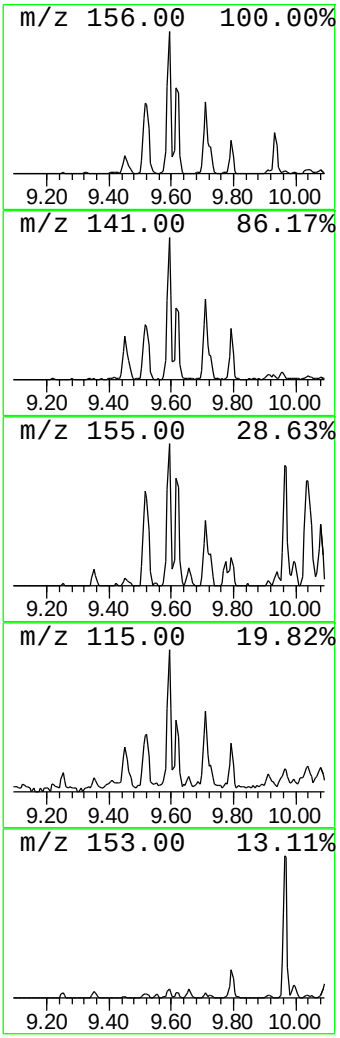
**********

Peak Number 3 Naphthalene, 2,3-dimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.59 | 3.81 ng | 236185 | Acenaphthene-d10 | 9.93 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 97 |
| 3 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 4 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 5 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 97 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

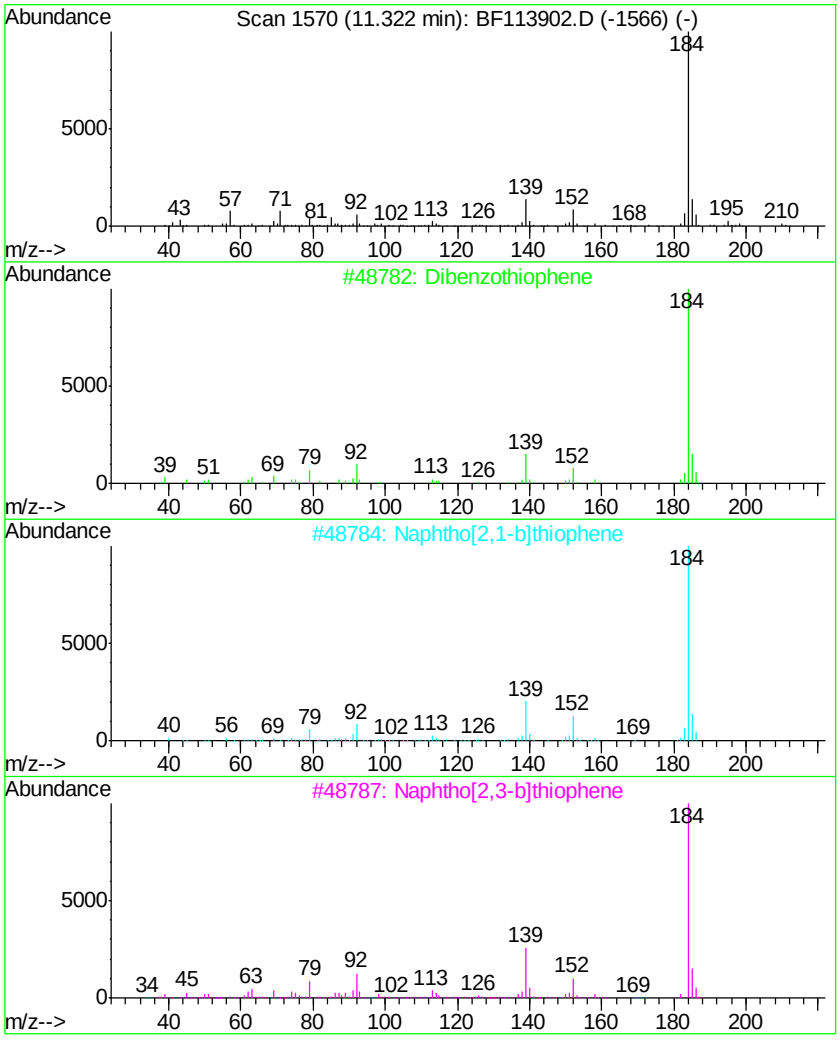
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

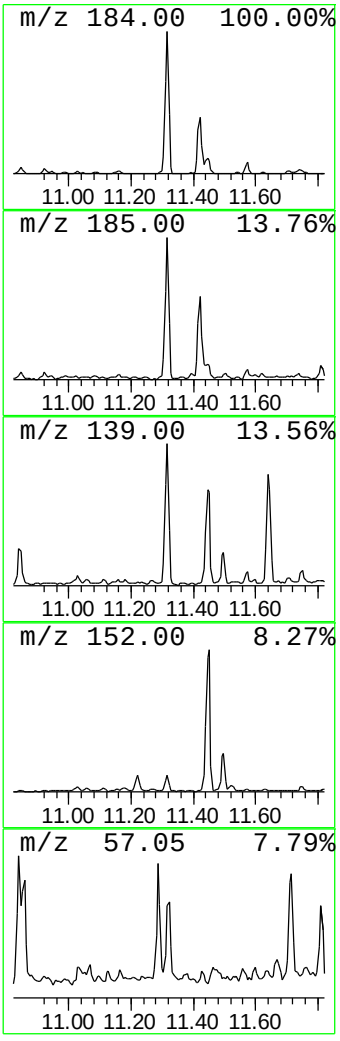
**********

Peak Number 4 Dibenzothiophene Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.32 | 6.07 ng | 508063 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene | 184 | C12H8S | 000132-65-0 | 96 |
| 2 | Naphtho[2,1-b]thiophene | 184 | C12H8S | 000233-02-3 | 95 |
| 3 | Naphtho[2,3-b]thiophene | 184 | C12H8S | 000268-77-9 | 95 |
| 4 | Naphtho[1,2-b]thiophene | 184 | C12H8S | 000234-41-3 | 95 |
| 5 | Azuleno(2,1-b)thiophene | 184 | C12H8S | 000248-13-5 | 91 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

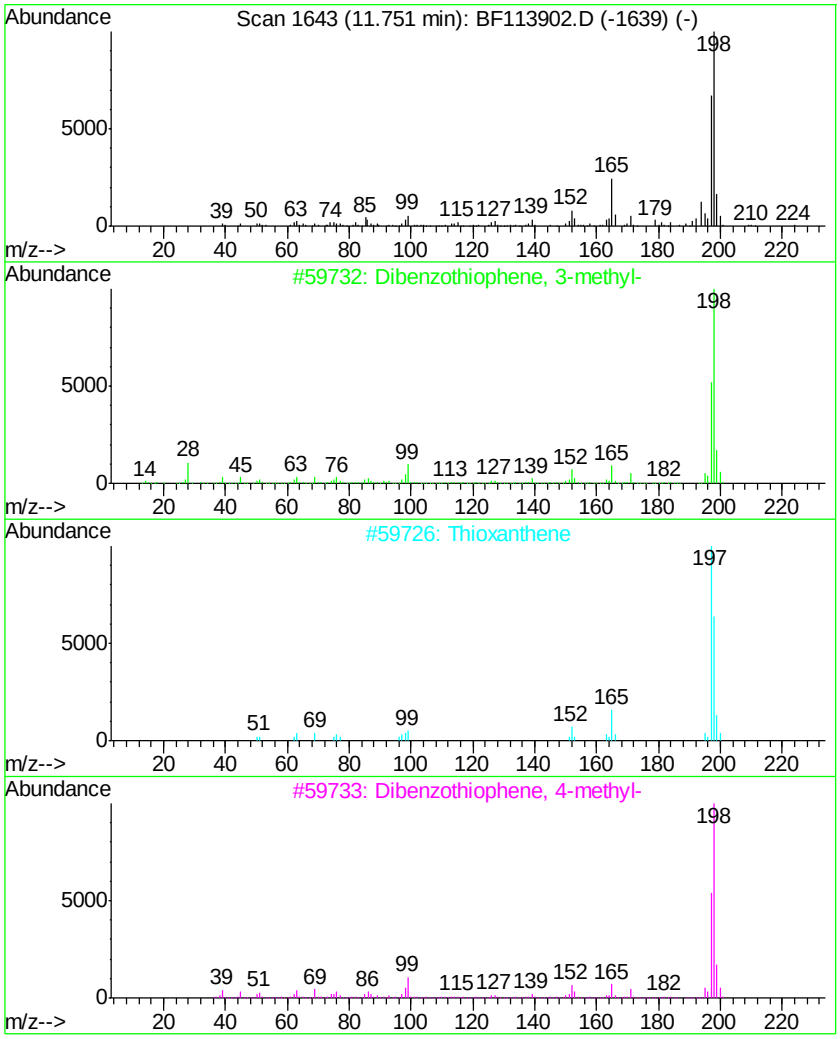
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

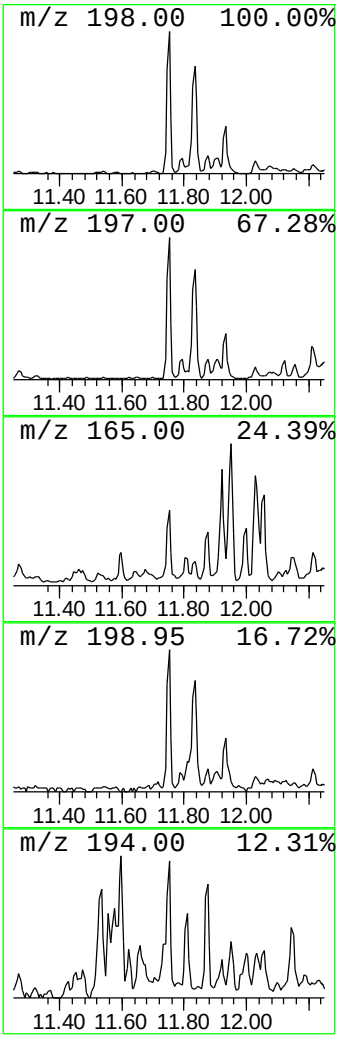
**********

Peak Number 5 Dibenzothiophene, 3-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 3.39 ng | 283340 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dibenzothiophene, 3-methyl- | 198 | C13H10S | 016587-52-3 | 90 |
| 2 | Thioxanthene | 198 | C13H10S | 000261-31-4 | 83 |
| 3 | Dibenzothiophene, 4-methyl- | 198 | C13H10S | 007372-88-5 | 81 |
| 4 | 1-Methyldibenzothiophene | 198 | C13H10S | 031317-07-4 | 72 |
| 5 | 4-Methylnaphtho[1,2-b]thiophene | 198 | C13H10S | 067388-11-8 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

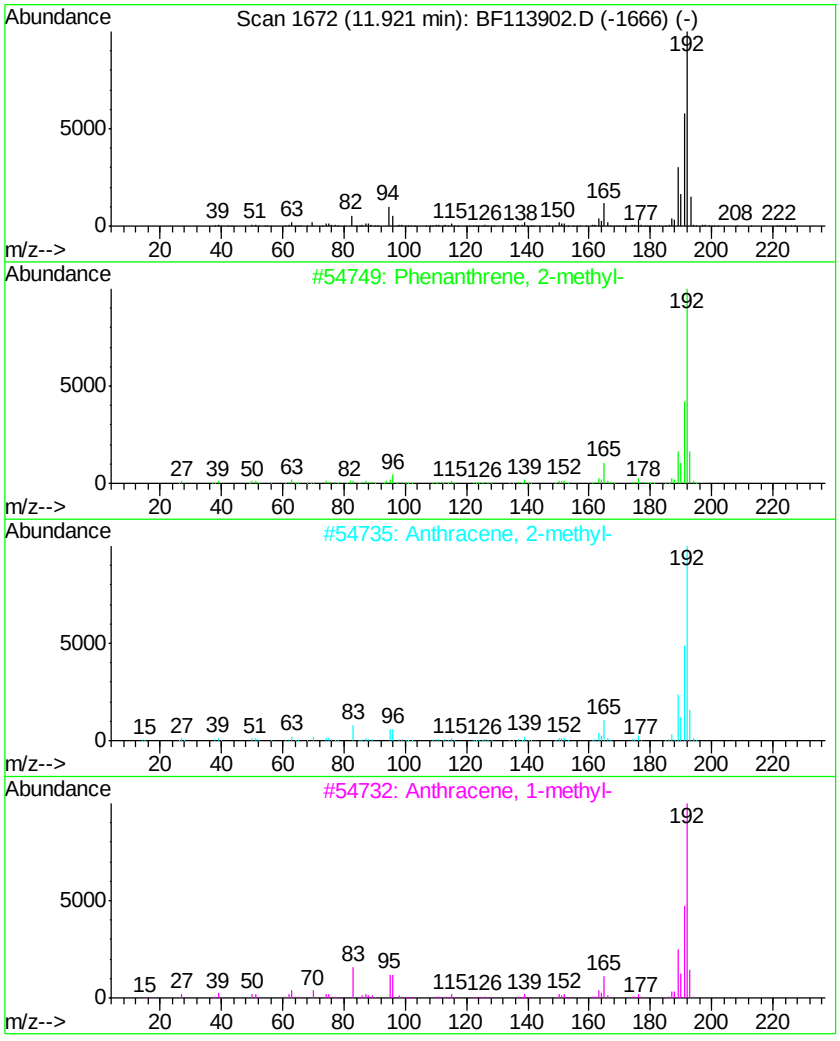
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

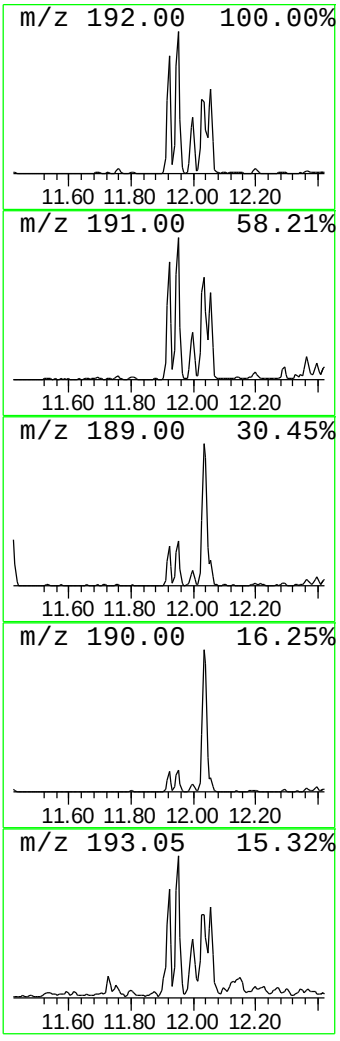
**********

Peak Number 6 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.92 | 9.60 ng | 803118 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 93 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |



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Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

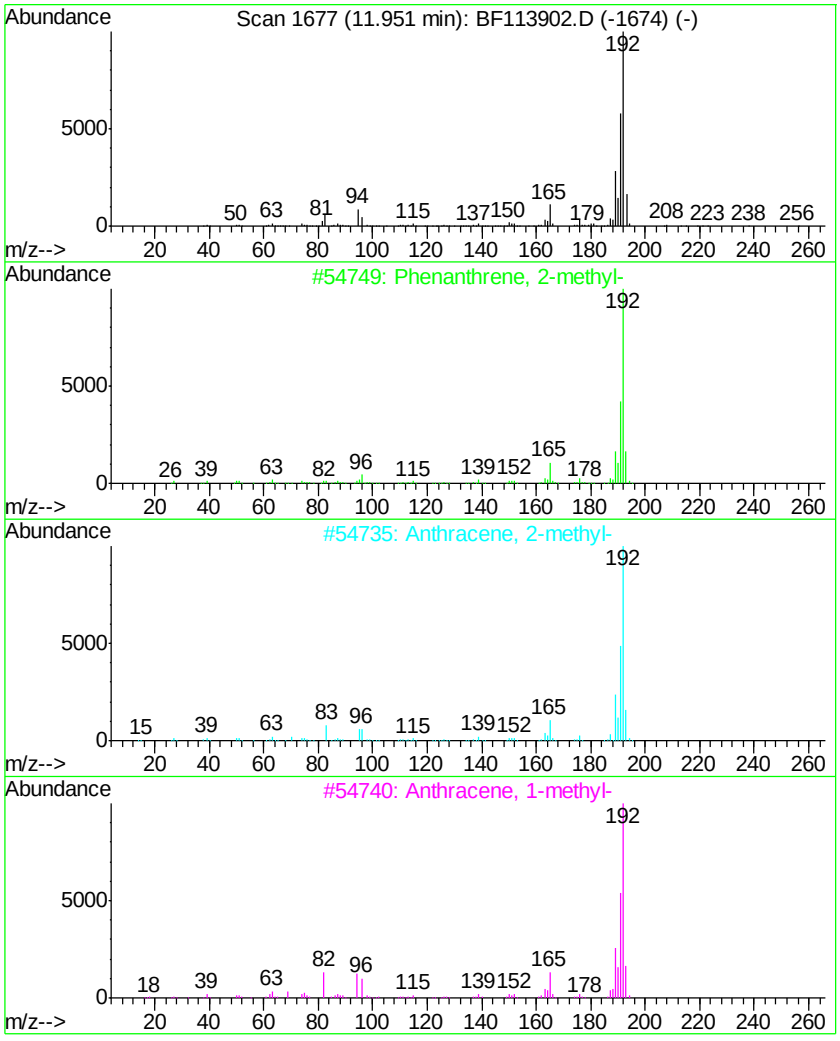
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

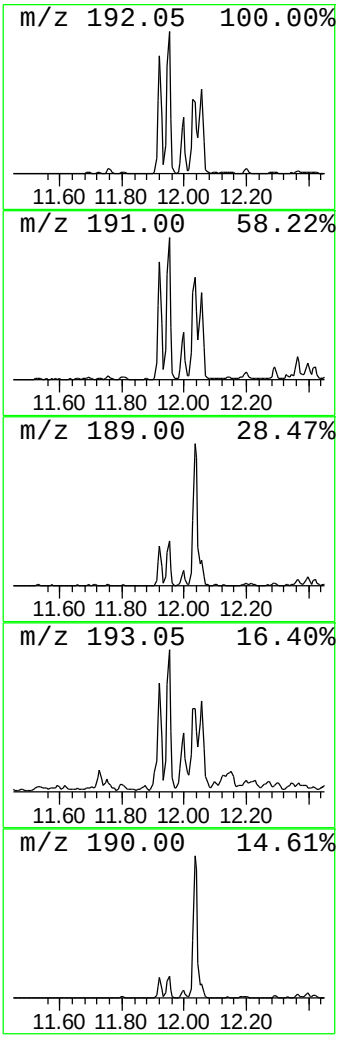
**********

Peak Number 7 Anthracene, 2-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.95 | 12.20 ng | 1020920 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | Anthracene, 2-methyl- | 192 | C15H12 | 000613-12-7 | 95 |
| 3 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 94 |
| 4 | Phenanthrene, 3-methyl- | 192 | C15H12 | 000832-71-3 | 93 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 93 |



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Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

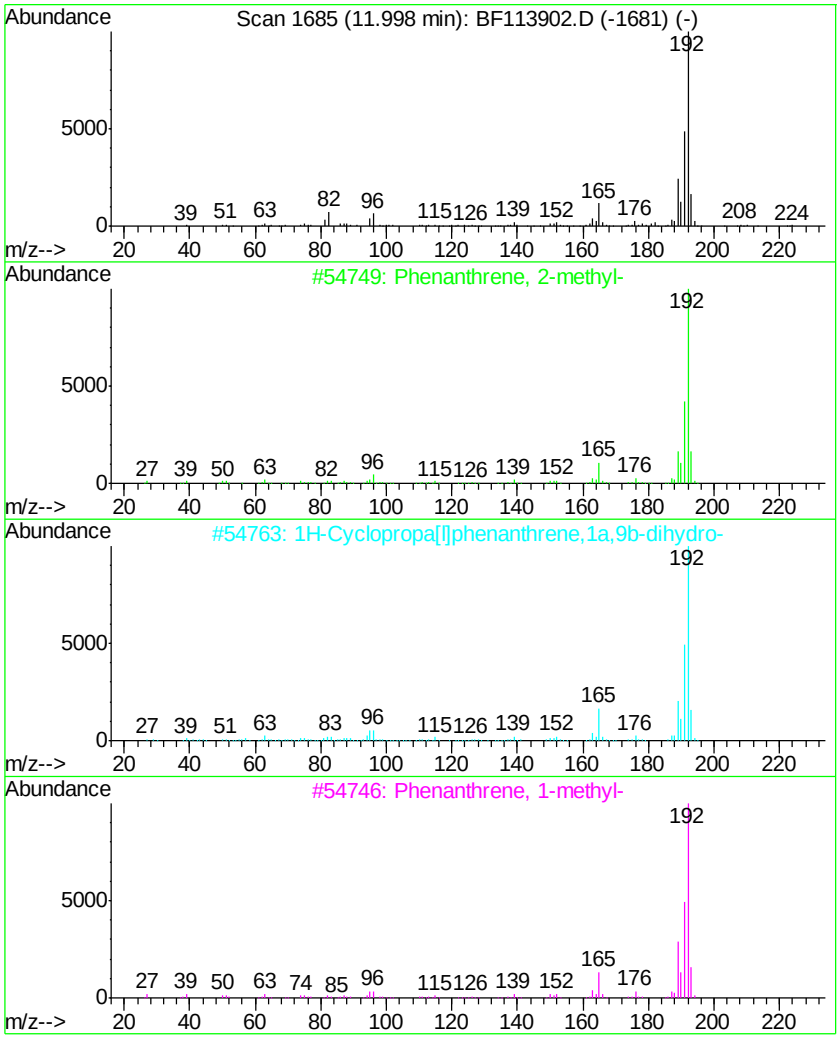
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

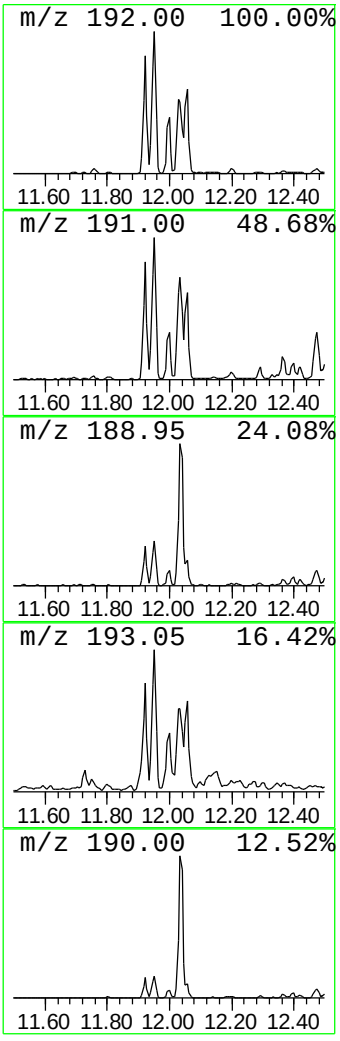
**********

Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.00 | 4.18 ng | 349803 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 96 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 96 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 96 |
| 4 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 95 |
| 5 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 94 |



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Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

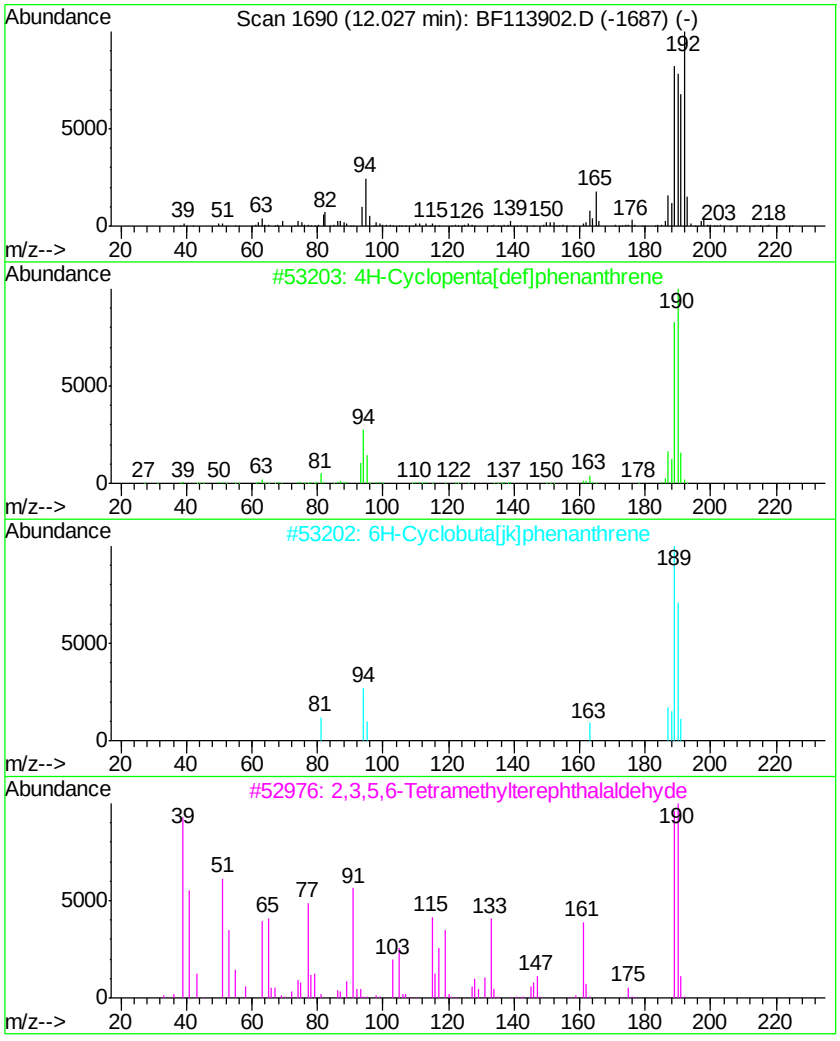
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

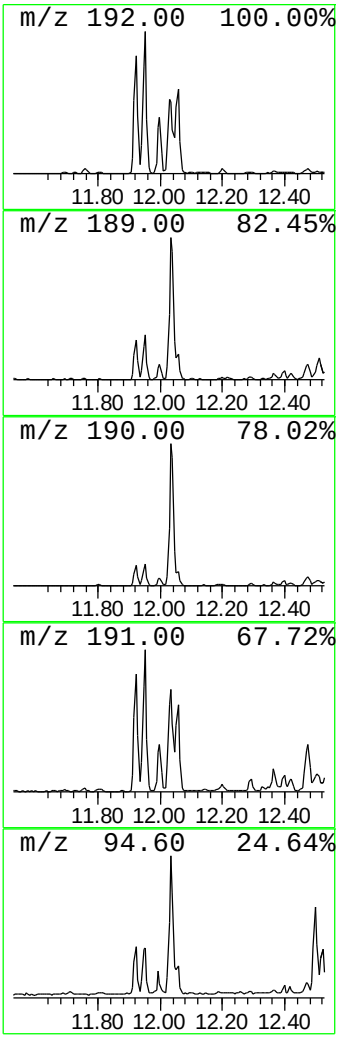
**********

Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.03 | 17.44 ng | 1459230 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 94 |
| 2 | 6H-Cyclobuta[jk]phenanthrene | 190 | C15H10 | 083469-43-6 | 53 |
| 3 | 2,3,5,6-Tetramethylterephthalald... | 190 | C12H14O2 | 007072-01-7 | 43 |
| 4 | Naphtho[1,2-b]norbornadiene | 192 | C15H12 | 1000210-14-8 | 18 |
| 5 | 5H-Dibenzo[a,d]cycloheptene | 192 | C15H12 | 000256-81-5 | 18 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.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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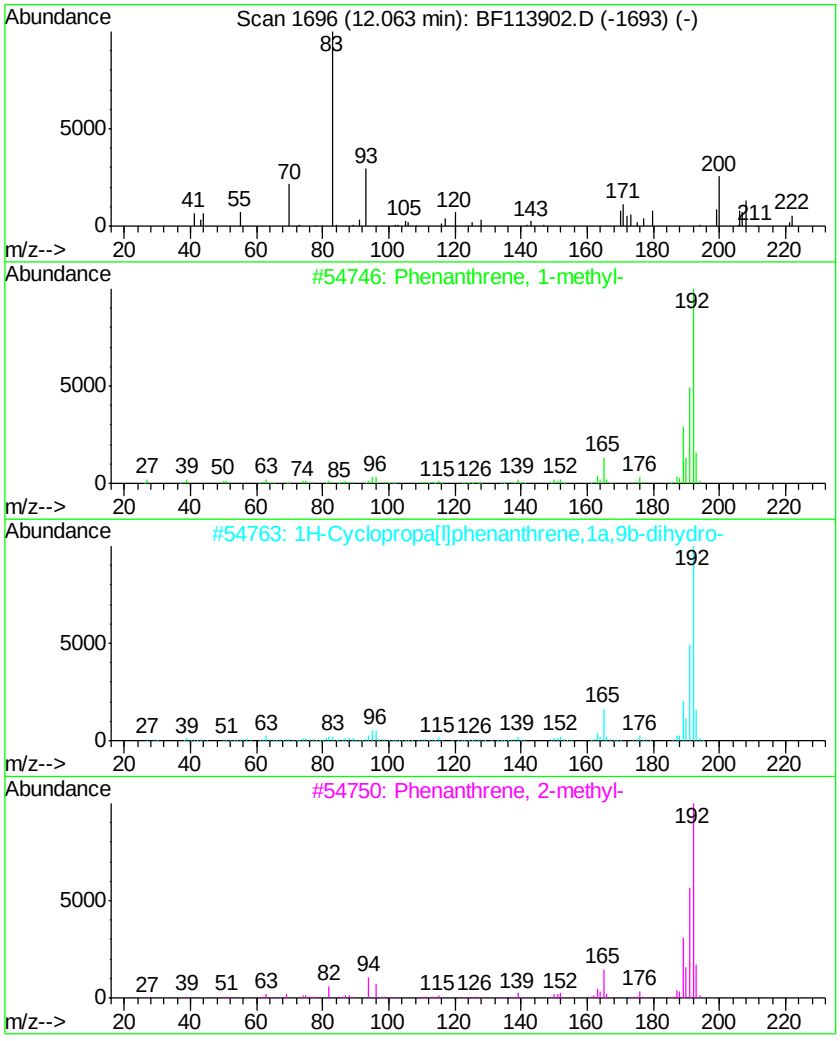
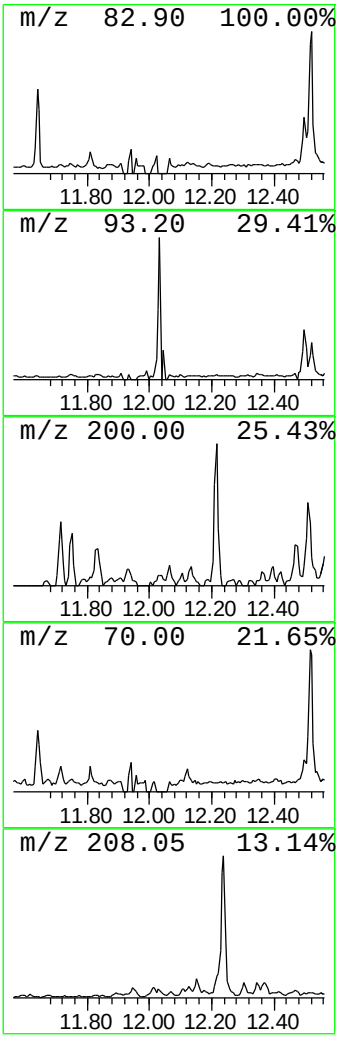
Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.06 | 5.74 ng | 480189 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 2 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 91 |
| 3 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 5 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 91 |



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Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.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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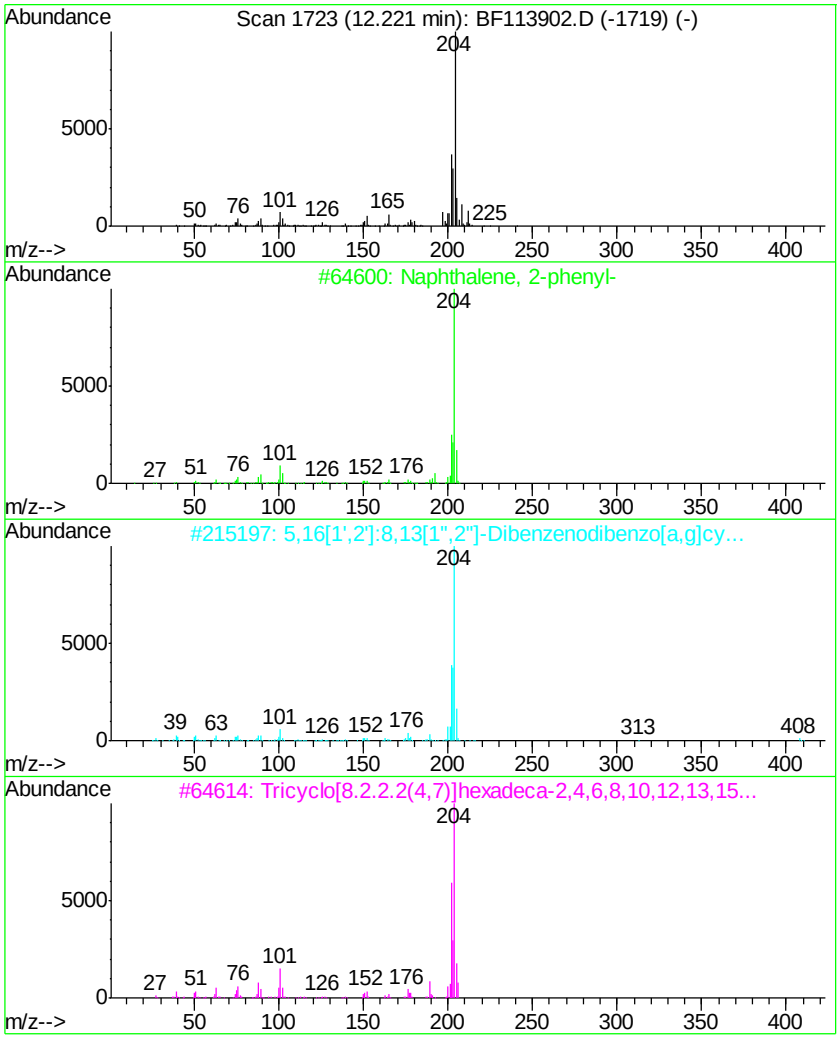
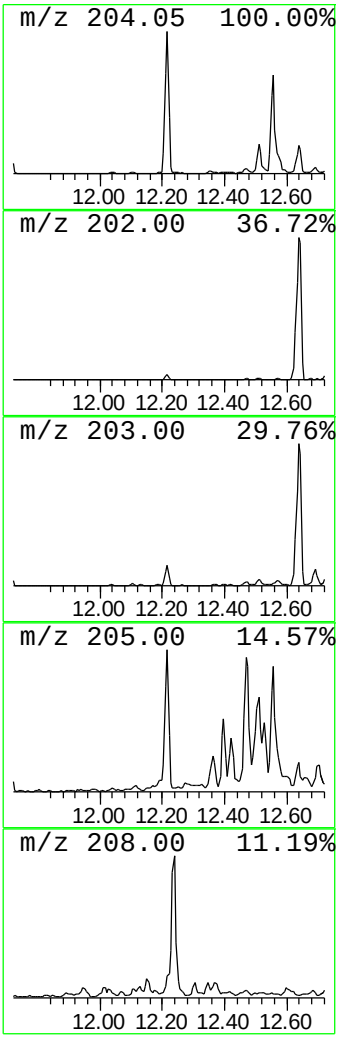
Peak Number 11 5,16[1',2']:8,13[1'',2'']-D... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.22 | 6.68 ng | 558456 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 81 |
| 2 | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24 | 005672-97-9 | 64 |
| 3 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 58 |
| 4 | Naphthalene, 1-phenyl- | 204 | C16H12 | 000605-02-7 | 53 |
| 5 | Benzene, 1,1'-(1-buten-3-yne-1,4... | 204 | C16H12 | 013141-45-2 | 50 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.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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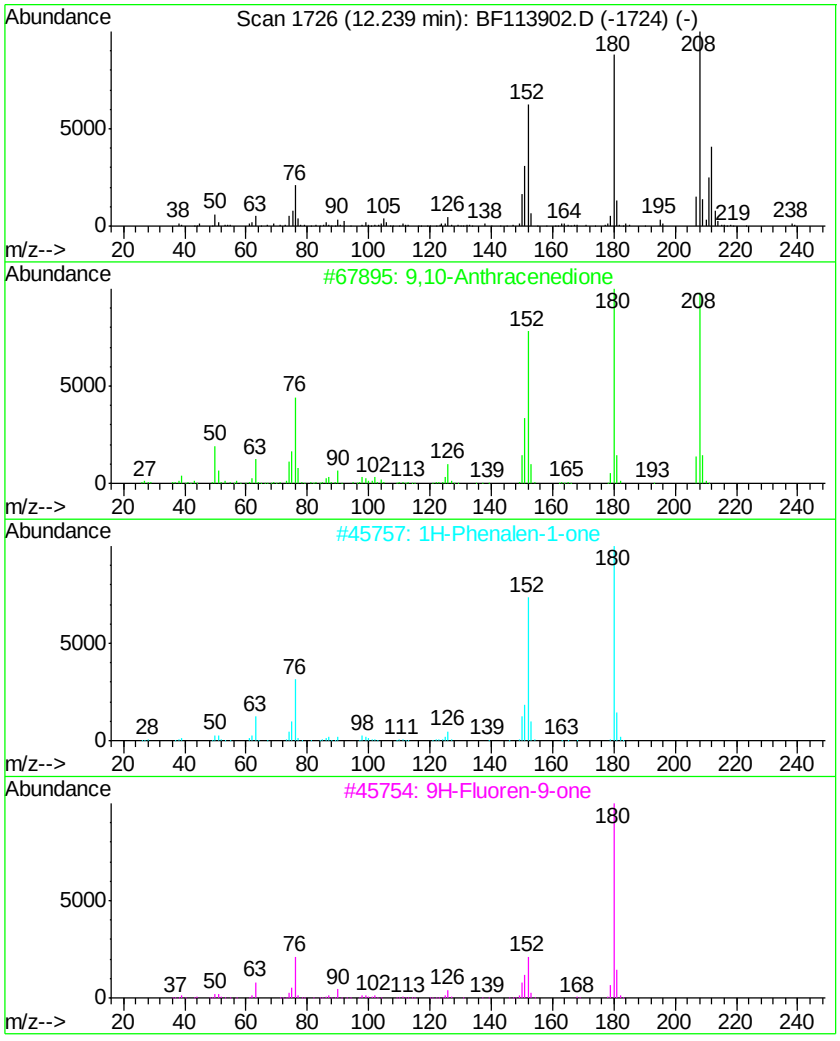
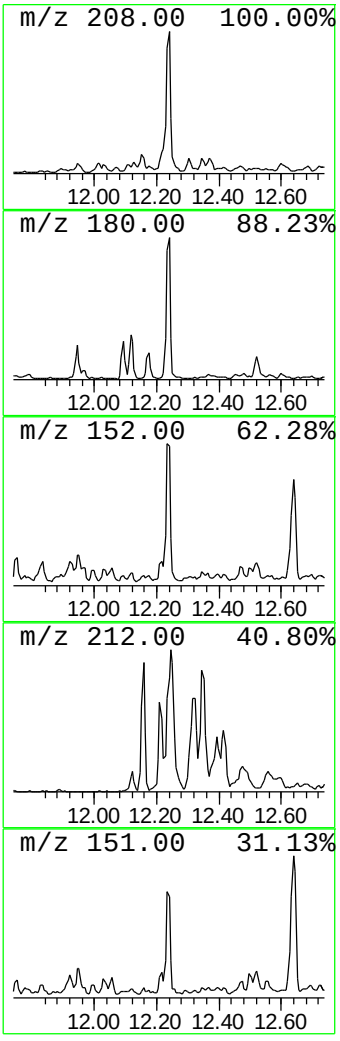
Peak Number 12 9,10-Anthracenedione Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.24 | 4.36 ng | 364325 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 95 |
| 2 | 1H-Phenalen-1-one | 180 | C13H8O | 000548-39-0 | 46 |
| 3 | 9H-Fluoren-9-one | 180 | C13H8O | 000486-25-9 | 45 |
| 4 | 1,4-Anthracenedione | 208 | C14H8O2 | 000635-12-1 | 43 |
| 5 | Benzo[c]cinnoline | 180 | C12H8N2 | 000230-17-1 | 41 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

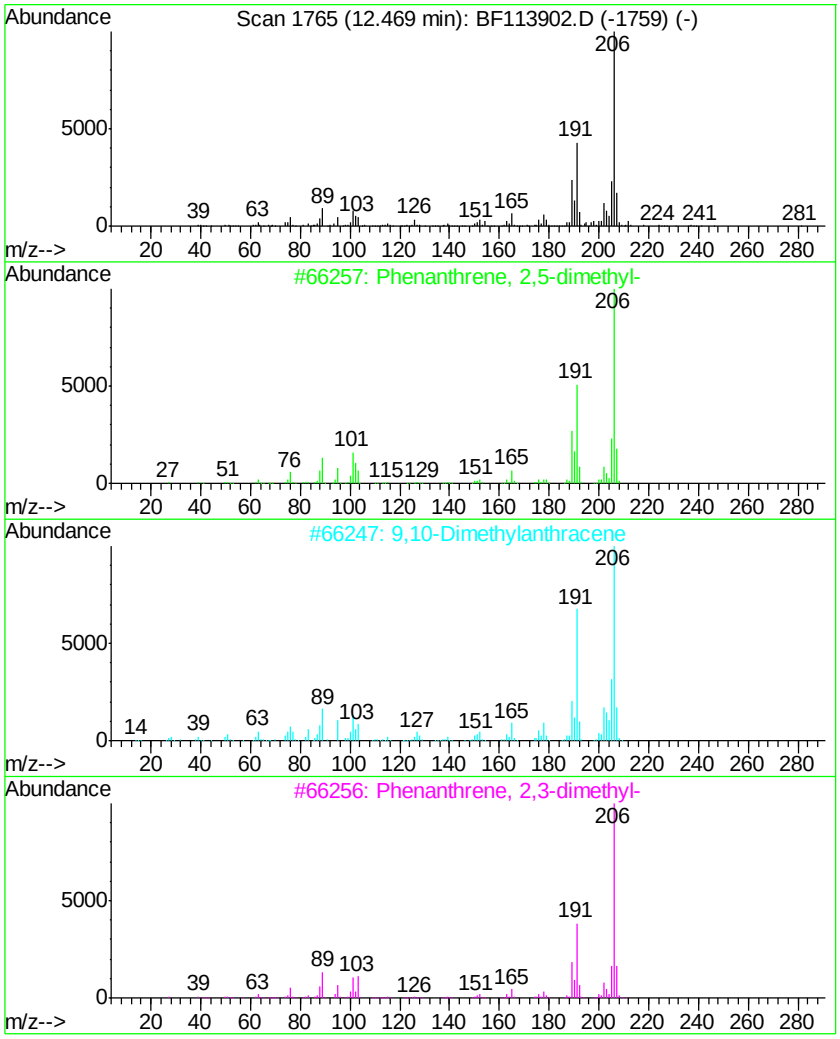
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

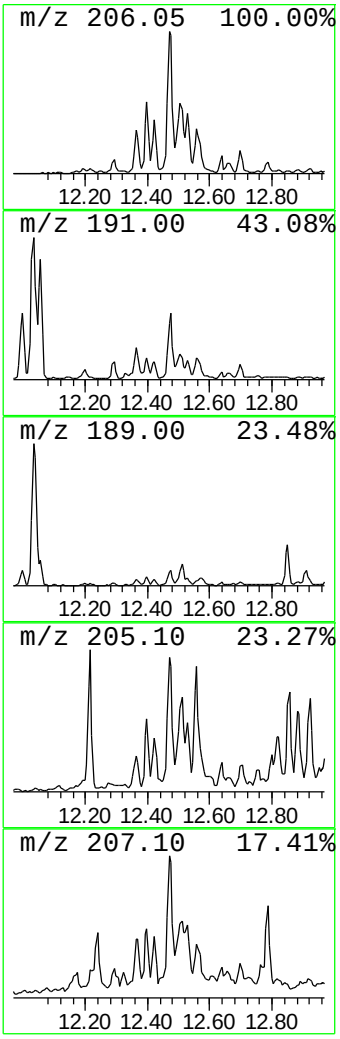
**********

Peak Number 13 Phenanthrene, 2,5-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.47 | 7.60 ng | 635915 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Phenanthrene, 2,5-dimethyl- | 206 | C16H14 | 003674-66-6 | 96 |
| 2 | 9,10-Dimethylanthracene | 206 | C16H14 | 000781-43-1 | 91 |
| 3 | Phenanthrene, 2,3-dimethyl- | 206 | C16H14 | 003674-65-5 | 91 |
| 4 | Phenanthrene, 3,6-dimethyl- | 206 | C16H14 | 001576-67-6 | 90 |
| 5 | 1H-Indene, 2-methyl-3-phenyl- | 206 | C16H14 | 035099-60-6 | 90 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

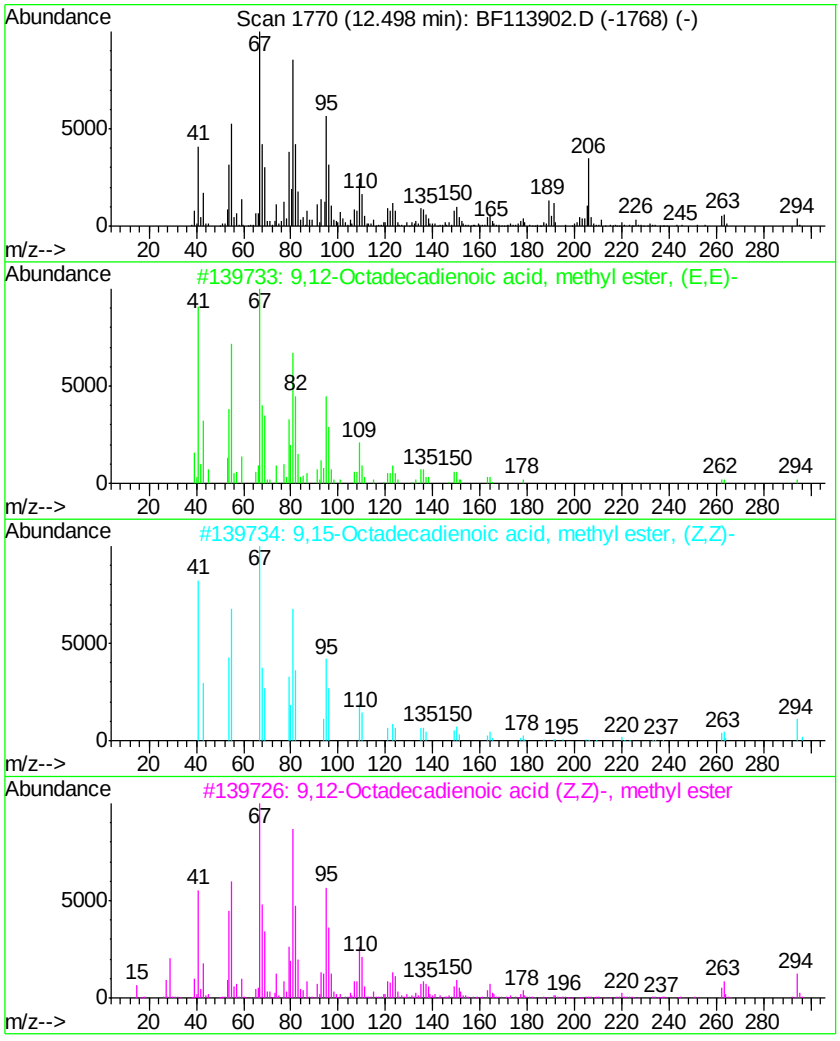
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

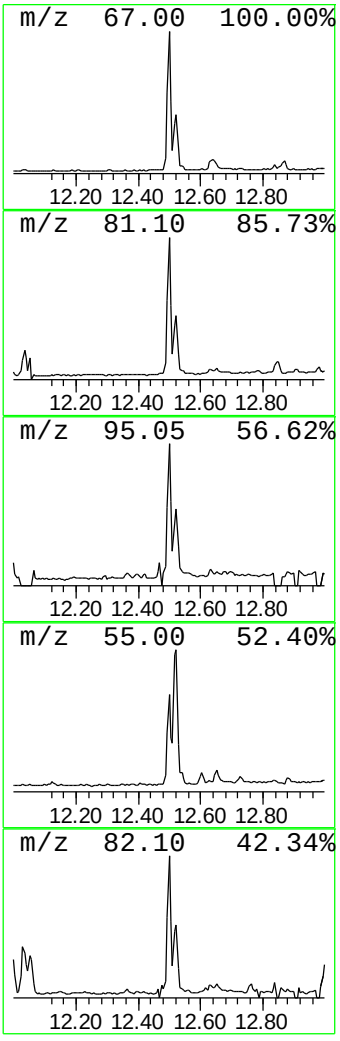
**********

Peak Number 14 9,12-Octadecadienoic acid, ... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.50 | 12.06 ng | 1008540 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002566-97-4 | 99 |
| 2 | 9,15-Octadecadienoic acid, methy... | 294 | C19H34O2 | 017309-05-6 | 99 |
| 3 | 9,12-Octadecadienoic acid (Z,Z)-... | 294 | C19H34O2 | 000112-63-0 | 99 |
| 4 | 10,13-Octadecadienoic acid, meth... | 294 | C19H34O2 | 056554-62-2 | 98 |
| 5 | 9,12-Octadecadienoic acid, methy... | 294 | C19H34O2 | 002462-85-3 | 97 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

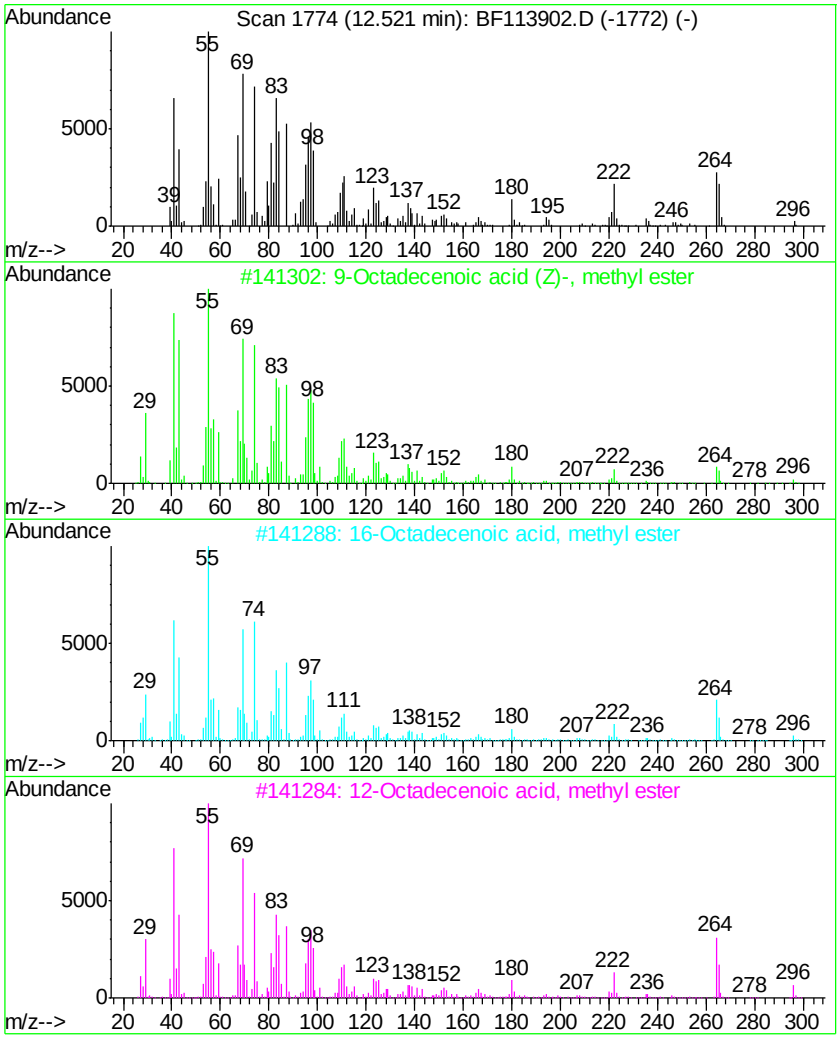
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

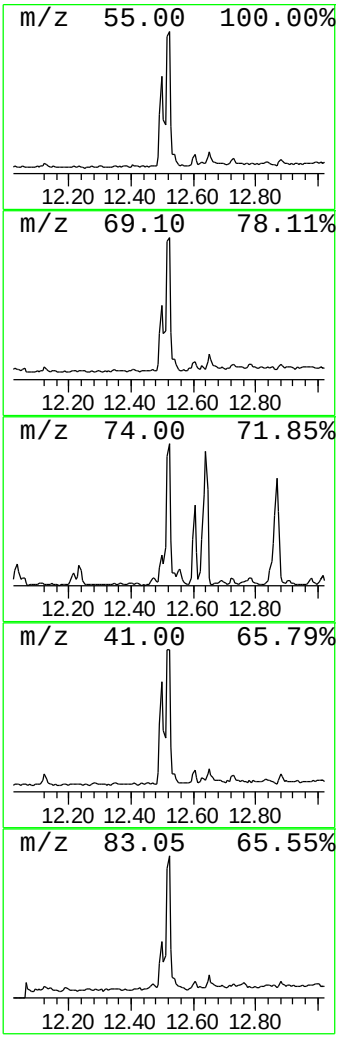
**********

Peak Number 15 9-Octadecenoic acid (Z)-, m... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.52 | 12.38 ng | 1035330 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9-Octadecenoic acid (Z)-, methyl... | 296 | C19H36O2 | 000112-62-9 | 99 |
| 2 | 16-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-49-5 | 99 |
| 3 | 12-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-46-2 | 99 |
| 4 | 13-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-47-3 | 99 |
| 5 | 14-Octadecenoic acid, methyl ester | 296 | C19H36O2 | 056554-48-4 | 99 |



Library Search Compound Report

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

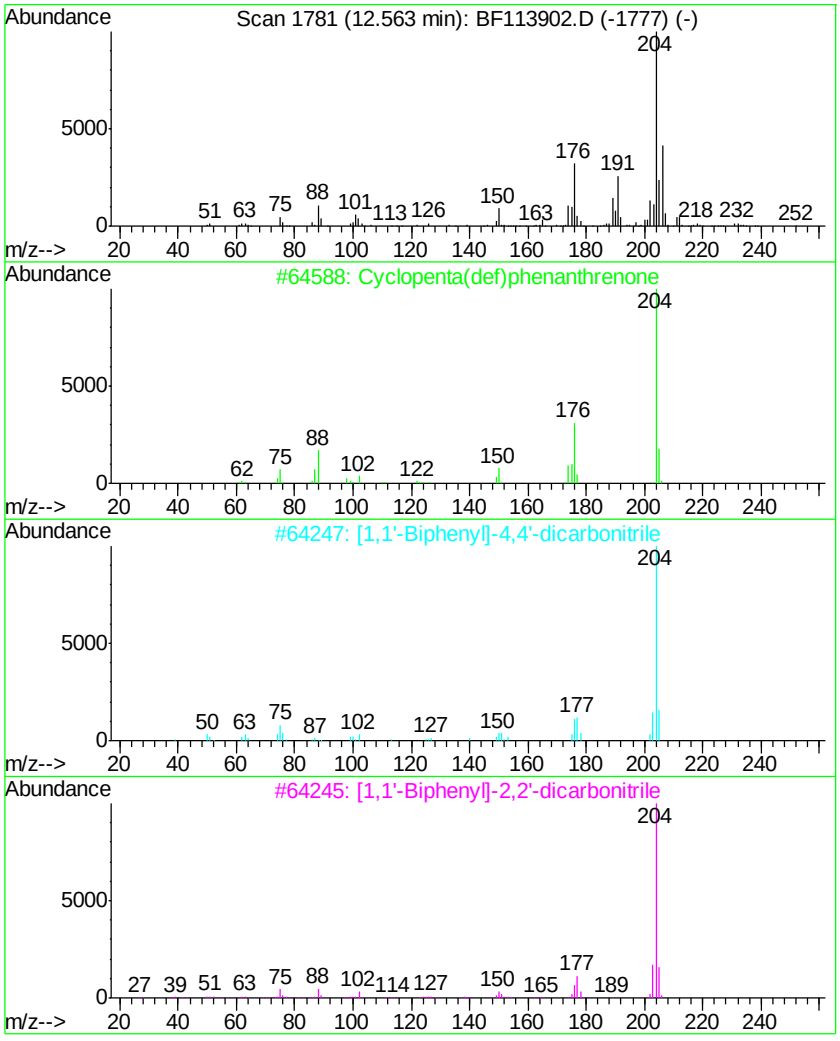
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

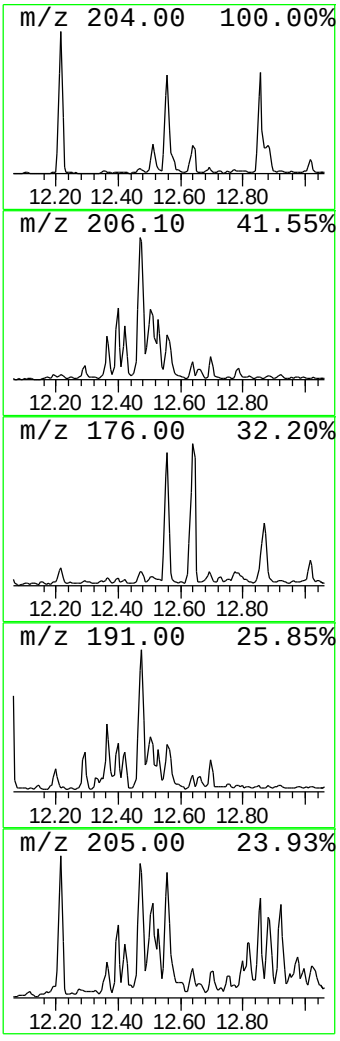
**********

Peak Number 16 Cyclopenta(def)phenanthrenone Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.56 | 6.07 ng | 507719 | Phenanthrene-d10 | 11.42 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopenta(def)phenanthrenone | 204 | C15H8O | 005737-13-3 | 90 |
| 2 | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 47 |
| 3 | [1,1'-Biphenyl]-2,2'-dicarbonitrile | 204 | C14H8N2 | 004341-02-0 | 47 |
| 4 | [1,1'-Biphenyl]-2-ol, 5-chloro- | 204 | C12H9ClO | 000607-12-5 | 47 |
| 5 | 9-Acridinecarbonitrile | 204 | C14H8N2 | 005326-19-2 | 47 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

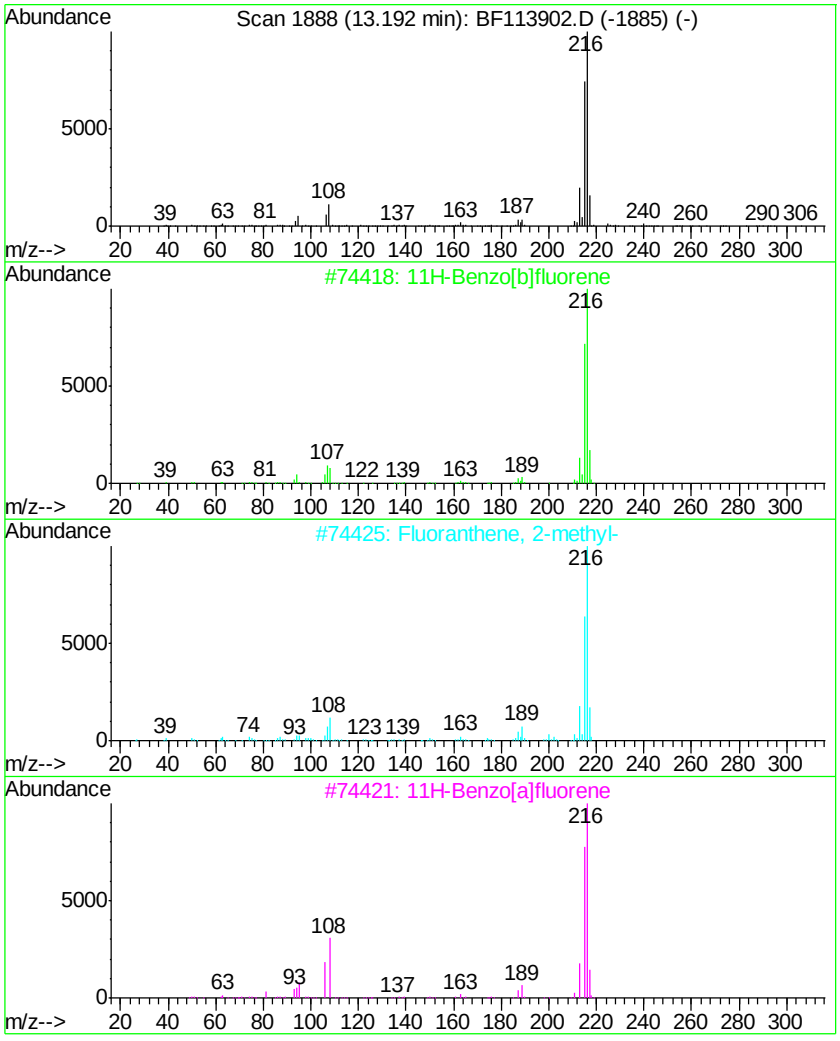
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

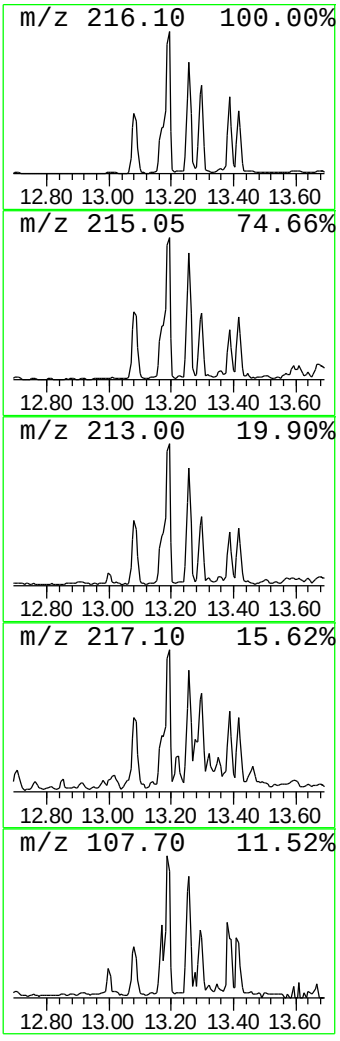
**********

Peak Number 17 Fluoranthene, 2-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.19 | 3.51 ng | 947960 | Chrysene-d12 | 14.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 94 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 87 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 87 |
| 4 | trans-p-(Trifluoromethyl)cinnami... | 216 | C10H7F3O2 | 016642-92-5 | 64 |
| 5 | Pyrene, 2-methyl- | 216 | C17H12 | 003442-78-2 | 64 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

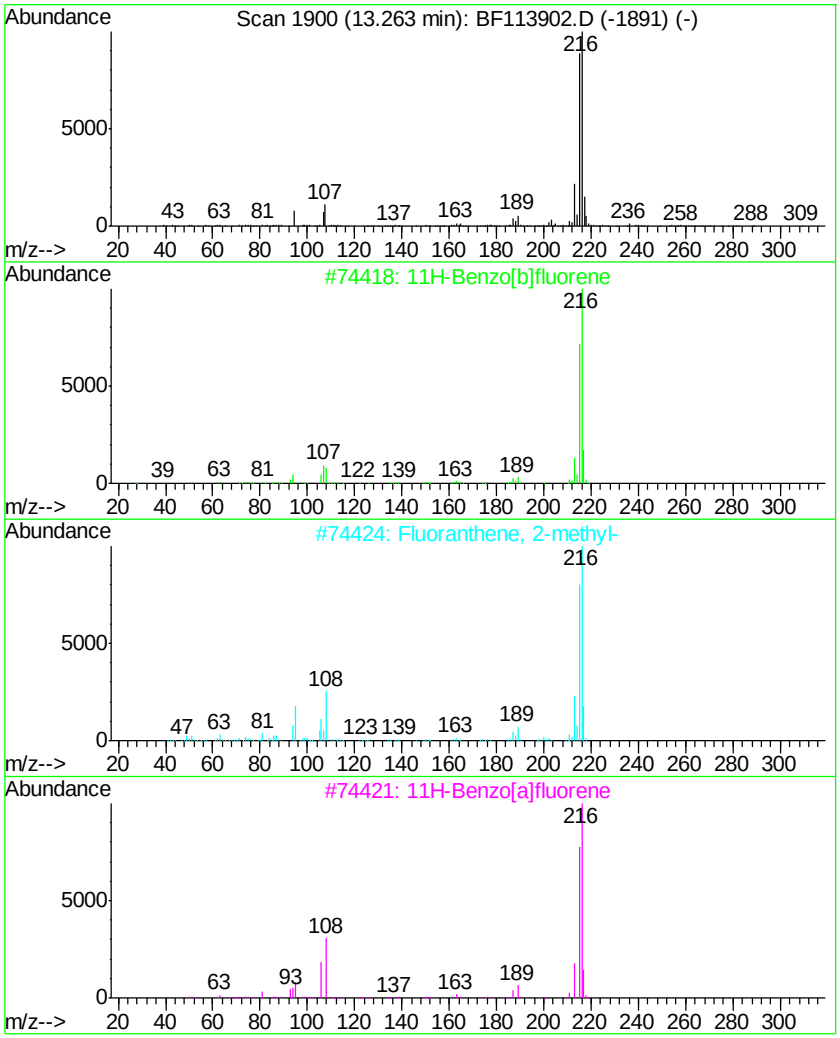
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

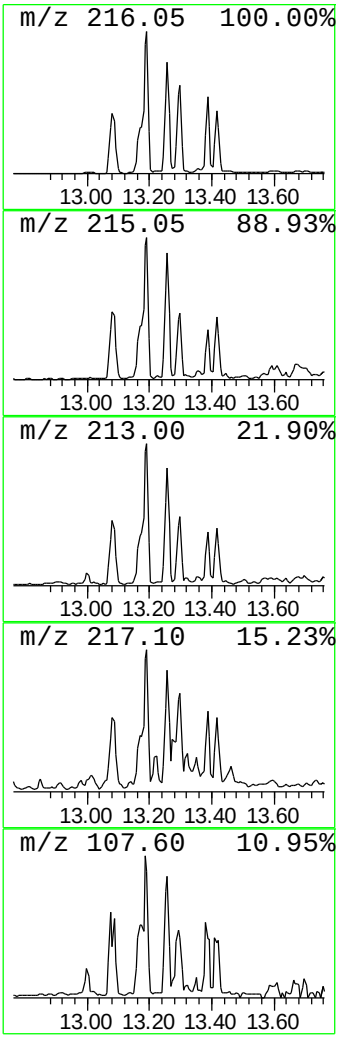
**********

Peak Number 18 11H-Benzo[b]fluorene Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.26 | 3.56 ng | 962571 | Chrysene-d12 | 14.06 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 97 |
| 2 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 95 |
| 3 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 4 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 87 |
| 5 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 86 |



Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

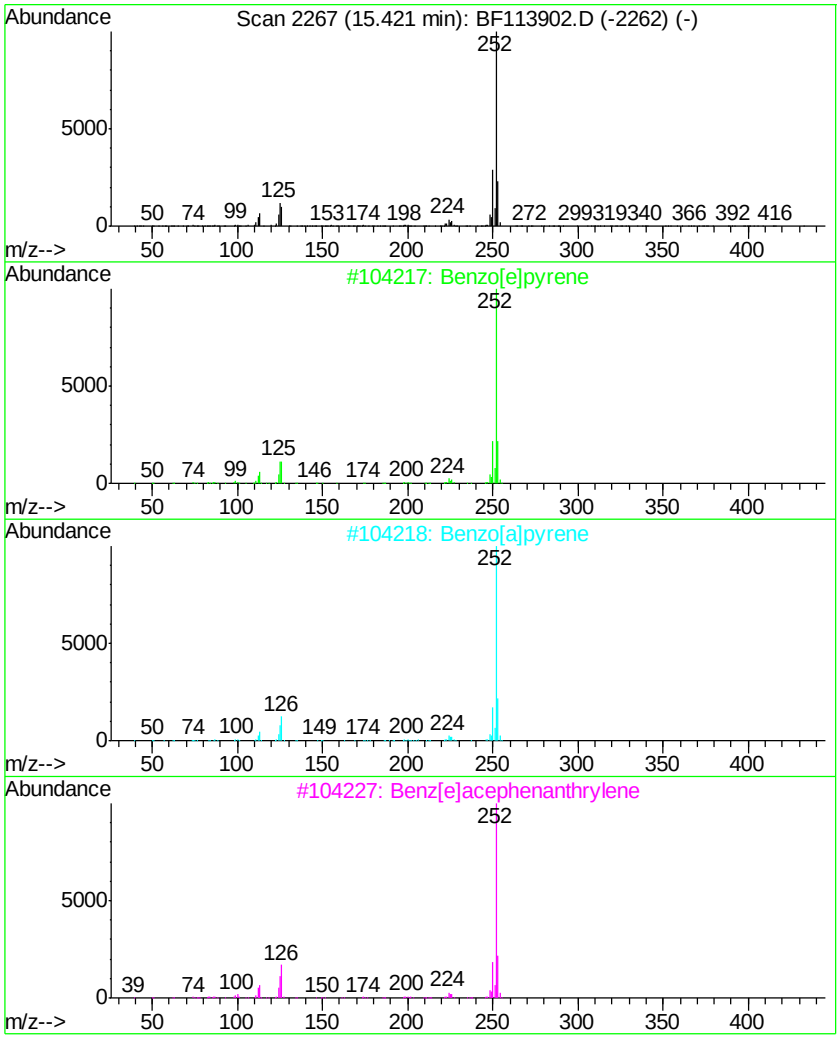
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

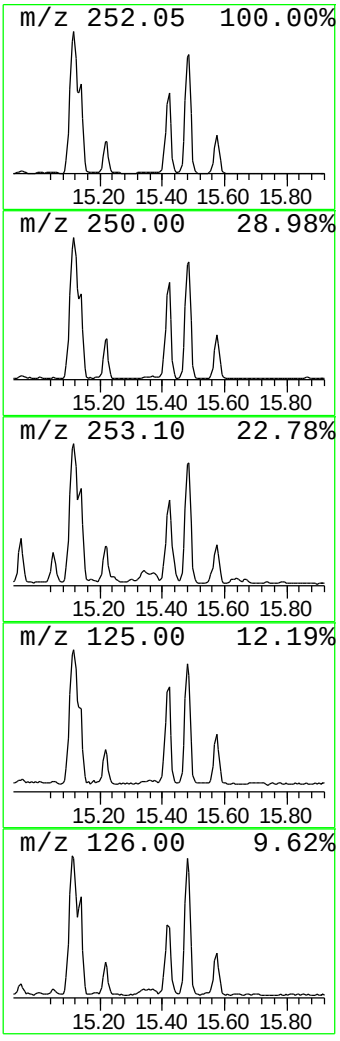
**********

Peak Number 20 Benzo[e]pyrene Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.42 | 22.02 ng | 1269140 | Perylene-d12 | 15.54 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 2 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 93 |
| 3 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 93 |
| 4 | Perylene | 252 | C20H12 | 000198-55-0 | 90 |
| 5 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 76 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\SVOASRV\HPCHEM1\BNA_F\DATA\BF042219\
Data File : BF113902.D
Acq On : 23 Apr 2019 2:13
Operator : JU/SJ
Sample : K2201-03 5X
Misc :
ALS Vial : 20 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** PL-01-041819-B

Quant Method : Z:\SVOASRV\HPCHEM1\BNA_F\METHODS\8270-BF042219.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 |
| unknown6.66 | 6.66 | 13.6 | ng | 615763 | 1 | 6.90 | 905648 | 20.0 |
| Naphthalene, 2,3-... | 9.59 | 3.8 | ng | 236185 | 3 | 9.93 | 1240490 | 20.0 |
| Dibenzothiophene | 11.32 | 6.1 | ng | 508063 | 4 | 11.42 | 1673060 | 20.0 |
| Dibenzothiophene,... | 11.75 | 3.4 | ng | 283340 | 4 | 11.42 | 1673060 | 20.0 |
| Phenanthrene, 2-m... | 11.92 | 9.6 | ng | 803118 | 4 | 11.42 | 1673060 | 20.0 |
| Anthracene, 2-met... | 11.95 | 12.2 | ng | 1020920 | 4 | 11.42 | 1673060 | 20.0 |
| 1H-Cyclopropa[l]p... | 12.00 | 4.2 | ng | 349803 | 4 | 11.42 | 1673060 | 20.0 |
| 4H-Cyclopenta[def... | 12.03 | 17.4 | ng | 1459230 | 4 | 11.42 | 1673060 | 20.0 |
| Phenanthrene, 1-m... | 12.06 | 5.7 | ng | 480189 | 4 | 11.42 | 1673060 | 20.0 |
| 5,16[1',2']:8,13[... | 12.22 | 6.7 | ng | 558456 | 4 | 11.42 | 1673060 | 20.0 |
| 9,10-Anthracenedione | 12.24 | 4.4 | ng | 364325 | 4 | 11.42 | 1673060 | 20.0 |
| Phenanthrene, 2,5... | 12.47 | 7.6 | ng | 635915 | 4 | 11.42 | 1673060 | 20.0 |
| 9,12-Octadecadien... | 12.50 | 12.1 | ng | 1008540 | 4 | 11.42 | 1673060 | 20.0 |
| 9-Octadecenoic ac... | 12.52 | 12.4 | ng | 1035330 | 4 | 11.42 | 1673060 | 20.0 |
| Cyclopenta(def)ph... | 12.56 | 6.1 | ng | 507719 | 4 | 11.42 | 1673060 | 20.0 |
| Fluoranthene, 2-m... | 13.19 | 3.5 | ng | 947960 | 5 | 14.06 | 5406690 | 20.0 |
| 11H-Benzo[b]fluorene | 13.26 | 3.6 | ng | 962571 | 5 | 14.06 | 5406690 | 20.0 |
| Benzo[e]pyrene | 15.42 | 22.0 | ng | 1269140 | 6 | 15.54 | 1152600 | 20.0 |