LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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 | 2.199 | 15 | 19 | 34 | rVB | 86047 | 156728 | 5.29% | 0.410% |
| 2 | 5.140 | 515 | 519 | 530 | rVB | 470858 | 545185 | 18.39% | 1.426% |
| 3 | 5.534 | 581 | 586 | 589 | rBV | 2858022 | 2640531 | 89.06% | 6.908% |
| 4 | 6.539 | 751 | 757 | 766 | rVB | 2697288 | 2733109 | 92.19% | 7.150% |
| 5 | 6.681 | 777 | 781 | 785 | rBV | 2780922 | 2737263 | 92.33% | 7.161% |
| 6 | 6.916 | 817 | 821 | 824 | rVB | 1133054 | 929849 | 31.36% | 2.433% |
| 7 | 7.069 | 843 | 847 | 851 | rBV | 2271025 | 2027683 | 68.39% | 5.305% |
| 8 | 7.475 | 911 | 916 | 919 | rBV | 1886003 | 1681575 | 56.72% | 4.399% |
| 9 | 8.198 | 1035 | 1039 | 1042 | rBV | 1447211 | 1266314 | 42.71% | 3.313% |
| 10 | 9.269 | 1216 | 1221 | 1224 | rBV | 3399544 | 2964797 | 100.00% | 7.756% |
| 11 | 9.345 | 1230 | 1234 | 1236 | rBV2 | 35768 | 34527 | 1.16% | 0.090% |
| 12 | 9.604 | 1276 | 1278 | 1281 | rBV | 33320 | 35572 | 1.20% | 0.093% |
| 13 | 9.657 | 1284 | 1287 | 1295 | rVB | 449699 | 414682 | 13.99% | 1.085% |
| 14 | 9.810 | 1310 | 1313 | 1317 | rBV | 175034 | 157820 | 5.32% | 0.413% |
| 15 | 9.875 | 1319 | 1324 | 1326 | rVB2 | 59813 | 69142 | 2.33% | 0.181% |
| 16 | 9.951 | 1331 | 1337 | 1341 | rVV2 | 1508570 | 1343094 | 45.30% | 3.514% |
| 17 | 9.986 | 1341 | 1343 | 1346 | rVB | 62003 | 49640 | 1.67% | 0.130% |
| 18 | 10.151 | 1366 | 1371 | 1375 | rVB3 | 58204 | 74385 | 2.51% | 0.195% |
| 19 | 10.192 | 1375 | 1378 | 1382 | rBV2 | 39768 | 34933 | 1.18% | 0.091% |
| 20 | 10.263 | 1387 | 1390 | 1393 | rBV3 | 33713 | 41647 | 1.40% | 0.109% |
| 21 | 10.375 | 1402 | 1409 | 1411 | rVB | 113510 | 127216 | 4.29% | 0.333% |
| 22 | 10.498 | 1427 | 1430 | 1435 | rVB | 98978 | 93304 | 3.15% | 0.244% |
| 23 | 10.586 | 1442 | 1445 | 1452 | rVB2 | 43977 | 71967 | 2.43% | 0.188% |
| 24 | 10.739 | 1467 | 1471 | 1474 | rBV | 1708465 | 1487634 | 50.18% | 3.892% |
| 25 | 10.845 | 1486 | 1489 | 1490 | rBV | 137872 | 108528 | 3.66% | 0.284% |
| 26 | 11.045 | 1518 | 1523 | 1525 | rBV3 | 38190 | 49976 | 1.69% | 0.131% |
| 27 | 11.292 | 1562 | 1565 | 1567 | rBV | 91730 | 74153 | 2.50% | 0.194% |
| 28 | 11.327 | 1567 | 1571 | 1576 | rVB3 | 55438 | 93229 | 3.14% | 0.244% |
| 29 | 11.439 | 1586 | 1590 | 1592 | rBV | 1423426 | 1202640 | 40.56% | 3.146% |
| 30 | 11.463 | 1592 | 1594 | 1597 | rVV | 605488 | 450137 | 15.18% | 1.178% |
| 31 | 11.516 | 1600 | 1603 | 1605 | rVB | 179113 | 161154 | 5.44% | 0.422% |
| 32 | 11.545 | 1605 | 1608 | 1611 | rBV2 | 33240 | 33218 | 1.12% | 0.087% |
| 33 | 11.663 | 1625 | 1628 | 1632 | rBV | 56944 | 53606 | 1.81% | 0.140% |
| 34 | 11.721 | 1635 | 1638 | 1642 | rVB2 | 45945 | 53031 | 1.79% | 0.139% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 11.821 | 1652 | 1655 | 1658 | rBV | 56716 | 47387 | 1.60% | 0.124% |
| 36 | 11.939 | 1672 | 1675 | 1678 | rBV2 | 105759 | 151677 | 5.12% | 0.397% |
| 37 | 11.969 | 1678 | 1680 | 1684 | rVB | 131842 | 109093 | 3.68% | 0.285% |
| 38 | 12.016 | 1685 | 1688 | 1691 | rBV | 48862 | 44461 | 1.50% | 0.116% |
| 39 | 12.051 | 1691 | 1694 | 1697 | rVV2 | 209704 | 235709 | 7.95% | 0.617% |
| 40 | 12.074 | 1697 | 1698 | 1702 | rVB | 84339 | 43801 | 1.48% | 0.115% |
| 41 | 12.127 | 1704 | 1707 | 1712 | rBV2 | 36572 | 36476 | 1.23% | 0.095% |
| 42 | 12.233 | 1722 | 1725 | 1727 | rBV | 67281 | 52344 | 1.77% | 0.137% |
| 43 | 12.257 | 1727 | 1729 | 1732 | rVB2 | 46743 | 40022 | 1.35% | 0.105% |
| 44 | 12.486 | 1765 | 1768 | 1770 | rBV | 105871 | 108531 | 3.66% | 0.284% |
| 45 | 12.527 | 1773 | 1775 | 1780 | rVB2 | 143717 | 153712 | 5.18% | 0.402% |
| 46 | 12.574 | 1780 | 1783 | 1787 | rBV | 96363 | 109323 | 3.69% | 0.286% |
| 47 | 12.651 | 1792 | 1796 | 1800 | rBV | 996940 | 859120 | 28.98% | 2.248% |
| 48 | 12.745 | 1809 | 1812 | 1814 | rBV | 63527 | 53642 | 1.81% | 0.140% |
| 49 | 12.880 | 1829 | 1835 | 1841 | rBV | 1080610 | 1173125 | 39.57% | 3.069% |
| 50 | 12.933 | 1841 | 1844 | 1847 | rVB2 | 51658 | 65491 | 2.21% | 0.171% |
| 51 | 13.021 | 1855 | 1859 | 1862 | rBV | 2481506 | 2191785 | 73.93% | 5.734% |
| 52 | 13.098 | 1868 | 1872 | 1875 | rBV3 | 94686 | 136536 | 4.61% | 0.357% |
| 53 | 13.210 | 1884 | 1891 | 1894 | rVB | 160861 | 261735 | 8.83% | 0.685% |
| 54 | 13.274 | 1899 | 1902 | 1905 | rVV | 116584 | 92051 | 3.10% | 0.241% |
| 55 | 13.310 | 1905 | 1908 | 1911 | rVV2 | 141635 | 143437 | 4.84% | 0.375% |
| 56 | 13.404 | 1921 | 1924 | 1927 | rBV | 112681 | 92953 | 3.14% | 0.243% |
| 57 | 13.433 | 1927 | 1929 | 1932 | rVB | 104768 | 90557 | 3.05% | 0.237% |
| 58 | 13.710 | 1974 | 1976 | 1981 | rVB | 78135 | 90411 | 3.05% | 0.237% |
| 59 | 13.827 | 1994 | 1996 | 1999 | rVB | 79032 | 65148 | 2.20% | 0.170% |
| 60 | 13.857 | 1999 | 2001 | 2002 | rBV | 73924 | 48541 | 1.64% | 0.127% |
| 61 | 13.880 | 2002 | 2005 | 2007 | rVV | 117181 | 112234 | 3.79% | 0.294% |
| 62 | 13.904 | 2007 | 2009 | 2017 | rVB4 | 248005 | 296619 | 10.00% | 0.776% |
| 63 | 14.045 | 2031 | 2033 | 2035 | rBV | 156605 | 168570 | 5.69% | 0.441% |
| 64 | 14.080 | 2035 | 2039 | 2041 | rVV2 | 1199617 | 1568068 | 52.89% | 4.102% |
| 65 | 14.104 | 2041 | 2043 | 2048 | rVB | 575124 | 518921 | 17.50% | 1.358% |
| 66 | 14.186 | 2054 | 2057 | 2060 | rVB | 128158 | 95790 | 3.23% | 0.251% |
| 67 | 14.292 | 2073 | 2075 | 2079 | rBV2 | 56455 | 76175 | 2.57% | 0.199% |
| 68 | 14.462 | 2102 | 2104 | 2107 | rVB | 149901 | 128871 | 4.35% | 0.337% |
| 69 | 14.498 | 2108 | 2110 | 2113 | rVB2 | 81112 | 62942 | 2.12% | 0.165% |
| 70 | 14.586 | 2123 | 2125 | 2127 | rBV | 95651 | 78594 | 2.65% | 0.206% |
| 71 | 15.133 | 2214 | 2218 | 2221 | rBV | 696547 | 1032194 | 34.81% | 2.700% |

LSC Area Percent Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-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:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 15.239 | 2234 | 2236 | 2239 | rVB | 141319 | 145510 | 4.91% | 0.381% |
| 73 | 15.445 | 2267 | 2271 | 2277 | rVB | 457990 | 580722 | 19.59% | 1.519% |
| 74 | 15.509 | 2278 | 2282 | 2288 | rVV | 622224 | 826011 | 27.86% | 2.161% |
| 75 | 15.574 | 2289 | 2293 | 2296 | rVV | 621736 | 833761 | 28.12% | 2.181% |
| 76 | 15.604 | 2296 | 2298 | 2305 | rVB | 234062 | 299289 | 10.09% | 0.783% |
| 77 | 17.080 | 2544 | 2549 | 2556 | rVB2 | 255706 | 514705 | 17.36% | 1.347% |
| 78 | 17.539 | 2622 | 2627 | 2635 | rVB | 196285 | 390179 | 13.16% | 1.021% |

Sum of corrected areas: 38224492

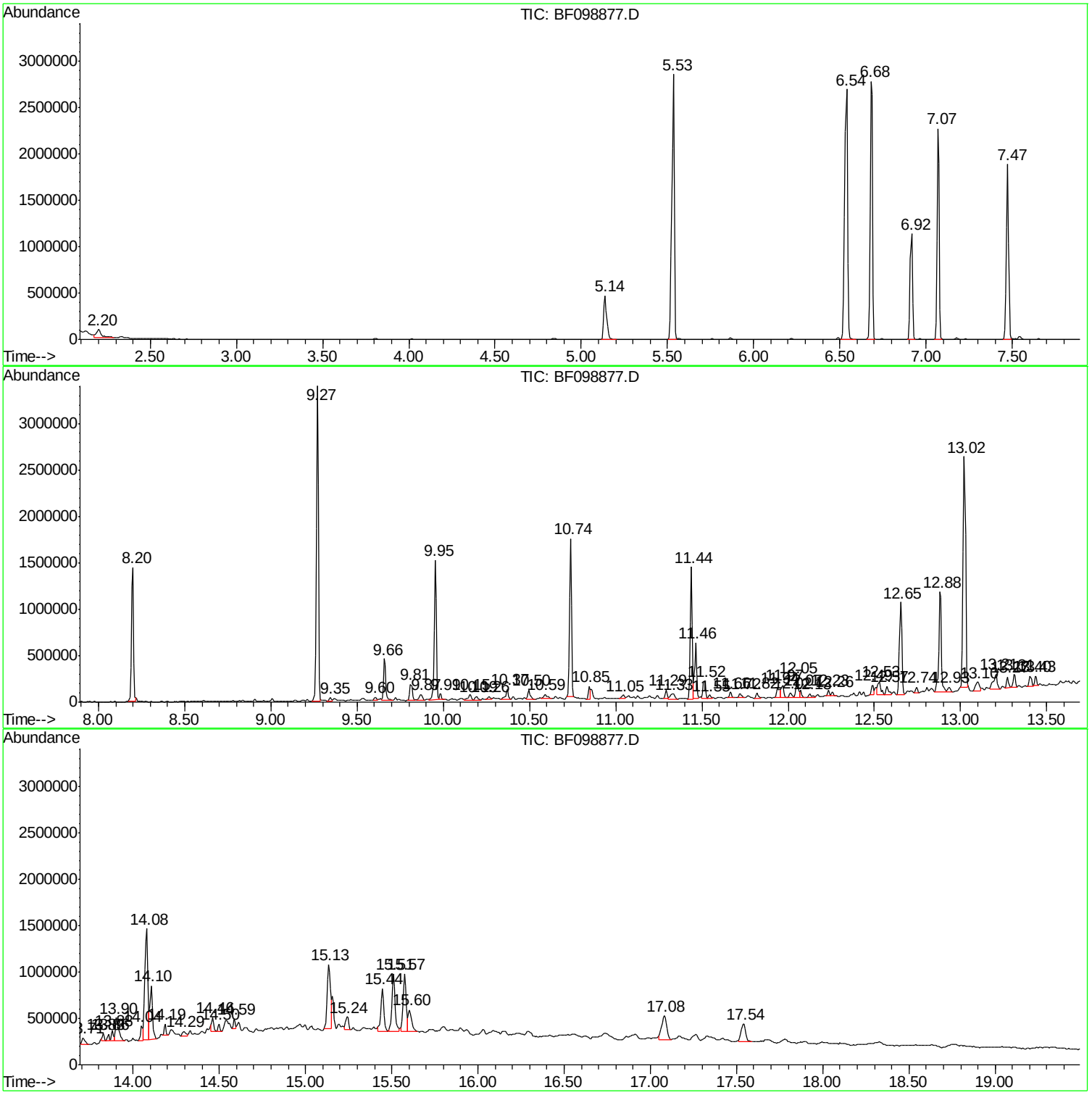
LSC Report - Integrated Chromatogram

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

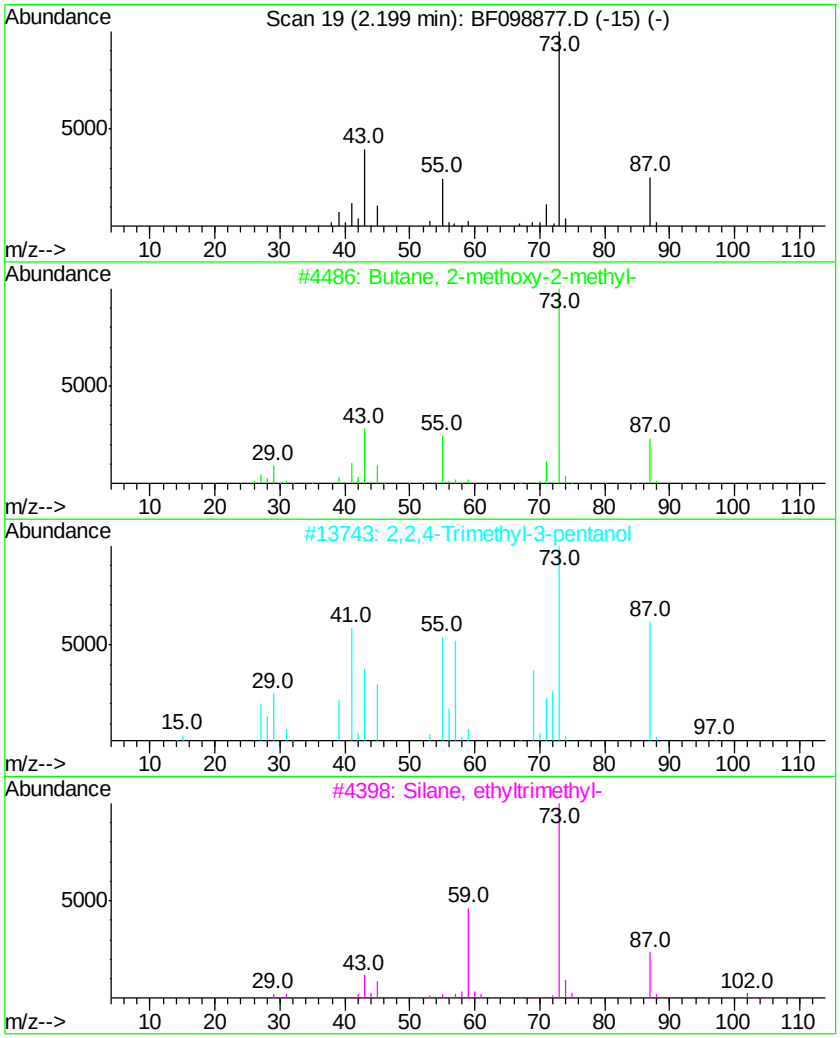
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

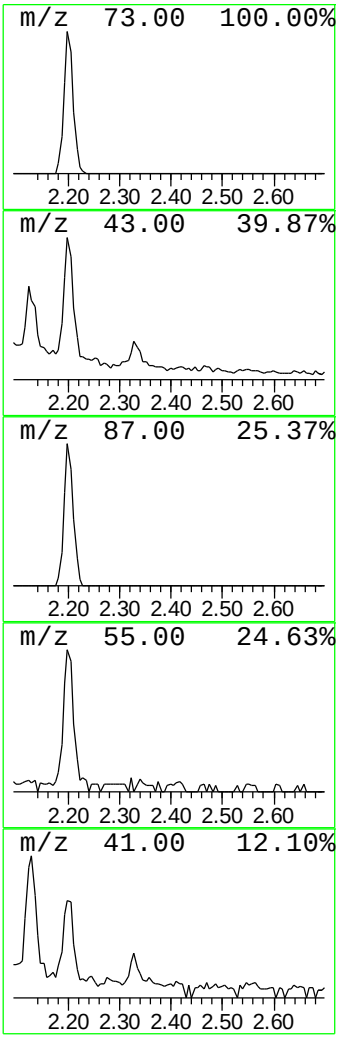
**********

Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.20 | 3.37 ng | 156728 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methoxy-2-methyl- | 102 | C6H14O | 000994-05-8 | 64 |
| 2 | 2,2,4-Trimethyl-3-pentanol | 130 | C8H18O | 005162-48-1 | 39 |
| 3 | Silane, ethyltrimethyl- | 102 | C5H14Si | 003439-38-1 | 33 |
| 4 | 3-Hexanol, 2-methyl- | 116 | C7H16O | 000617-29-8 | 25 |
| 5 | Boronic acid, ethyl-, dimethyl e... | 102 | C4H11BO2 | 007318-82-3 | 17 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

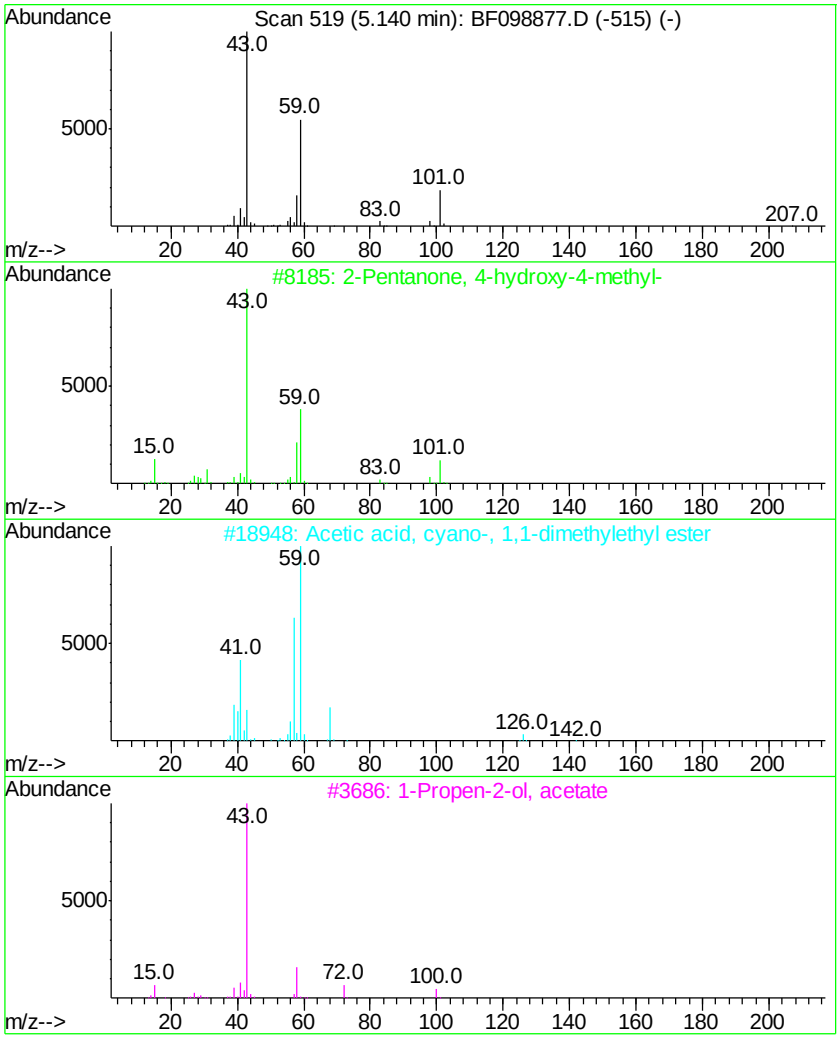
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

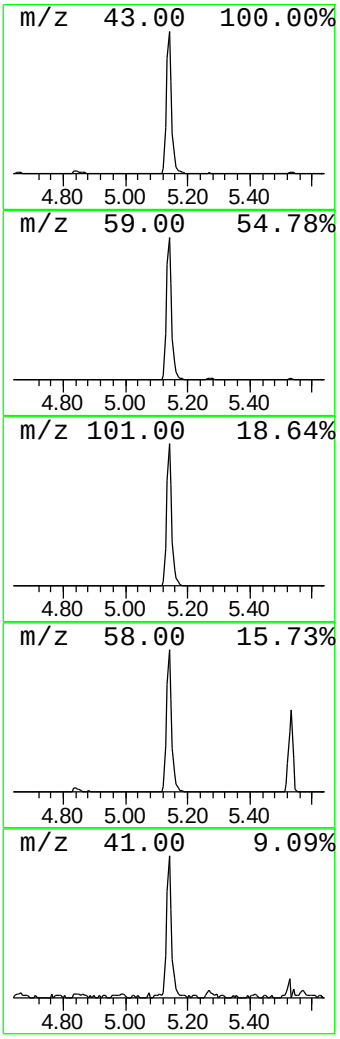
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.14 | 11.73 ng | 545185 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanone, 4-hydroxy-4-methyl- | 116 | C6H12O2 | 000123-42-2 | 59 |
| 2 | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2 | 001116-98-9 | 23 |
| 3 | 1-Propen-2-ol, acetate | 100 | C5H8O2 | 000108-22-5 | 10 |
| 4 | Morpholine, 4-methyl- | 101 | C5H11NO | 000109-02-4 | 9 |
| 5 | Propane, 1-ethoxy-2-methyl- | 102 | C6H14O | 000627-02-1 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

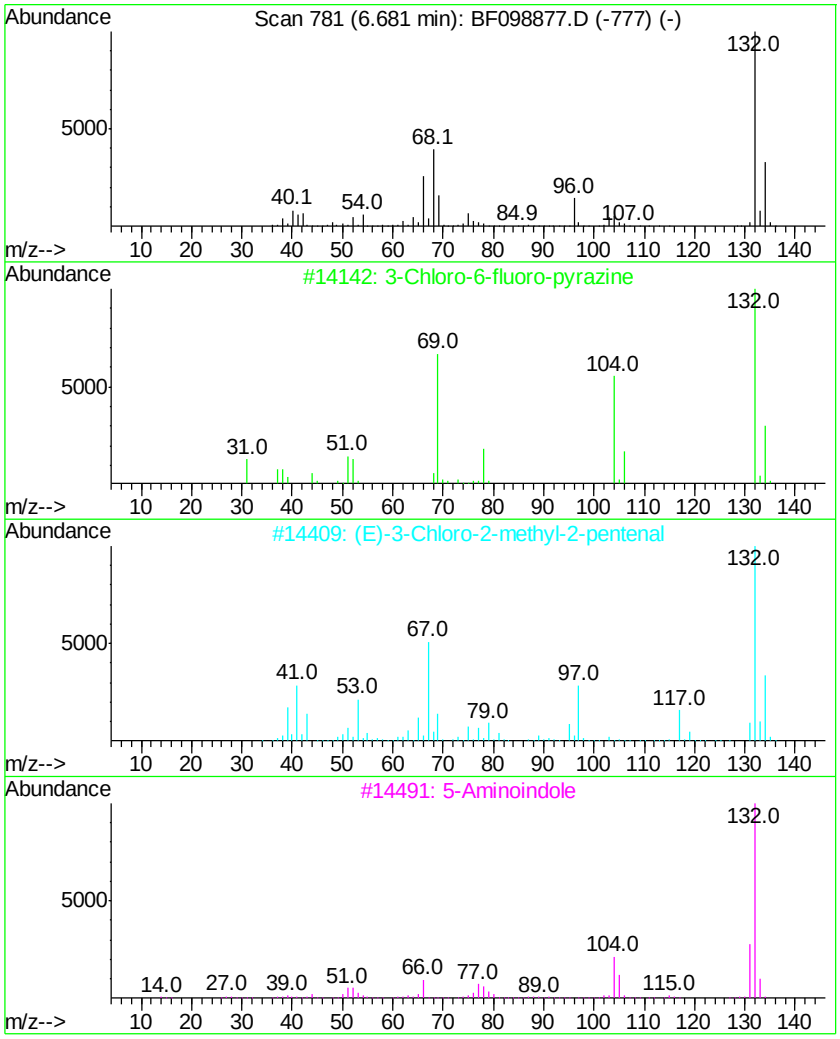
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

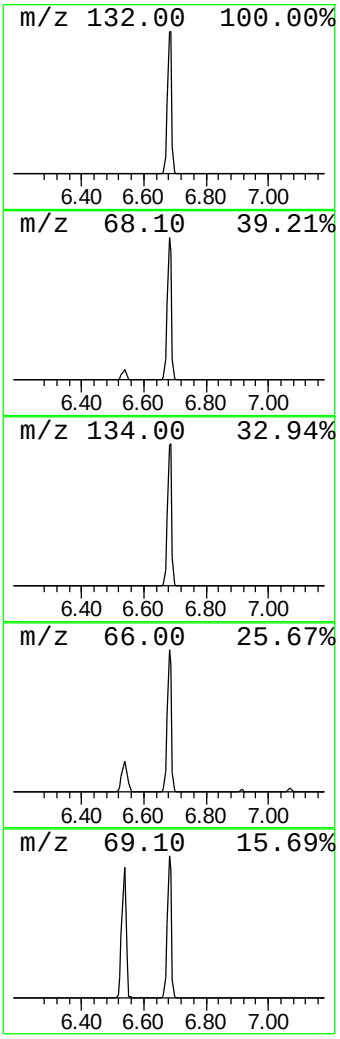
**********

Peak Number 3 unknown6.68 Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.68 | 58.88 ng | 2737260 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27 |
| 2 | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO | 031357-76-3 | 17 |
| 3 | 5-Aminoindole | 132 | C8H8N2 | 005192-03-0 | 12 |
| 4 | Tranylcypromine-propionyl | 189 | C12H15NO | 1000123-86-3 | 10 |
| 5 | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2 | 022291-85-6 | 9 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

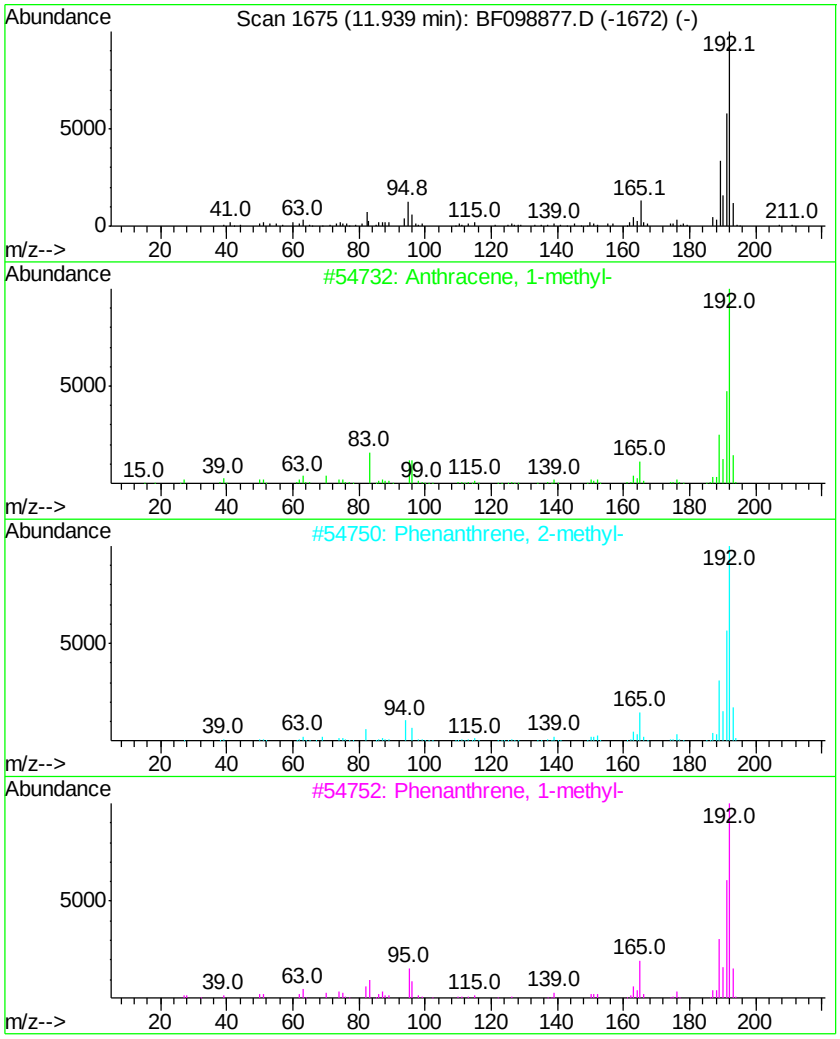
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

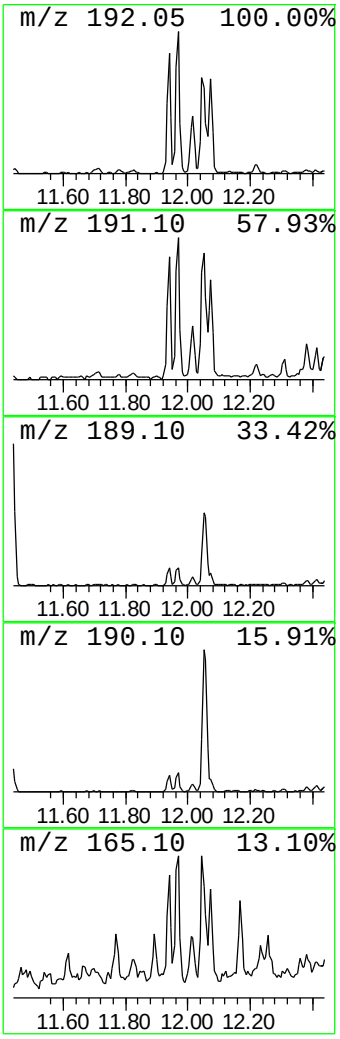
**********

Peak Number 5 Anthracene, 1-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.94 | 2.52 ng | 151677 | Phenanthrene-d10 | 11.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Anthracene, 1-methyl- | 192 | C15H12 | 000610-48-0 | 93 |
| 2 | Phenanthrene, 2-methyl- | 192 | C15H12 | 002531-84-2 | 91 |
| 3 | Phenanthrene, 1-methyl- | 192 | C15H12 | 000832-69-9 | 91 |
| 4 | Anthracene, 9-methyl- | 192 | C15H12 | 000779-02-2 | 91 |
| 5 | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12 | 000949-41-7 | 89 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

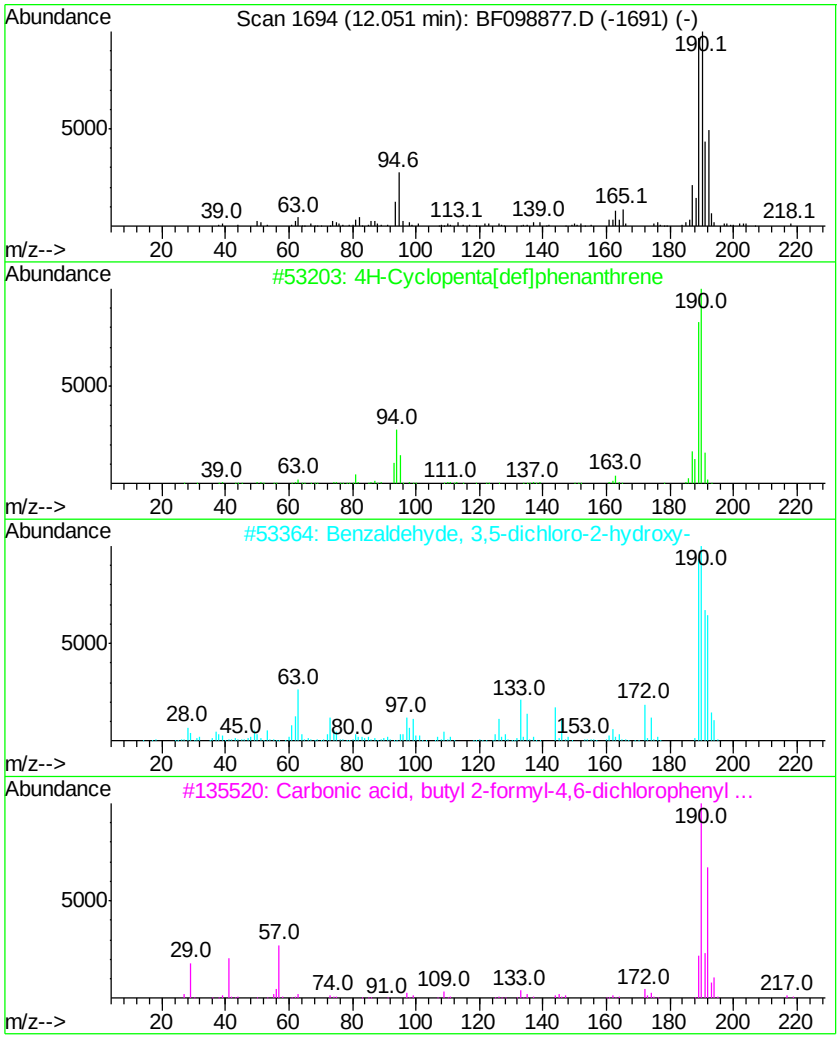
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

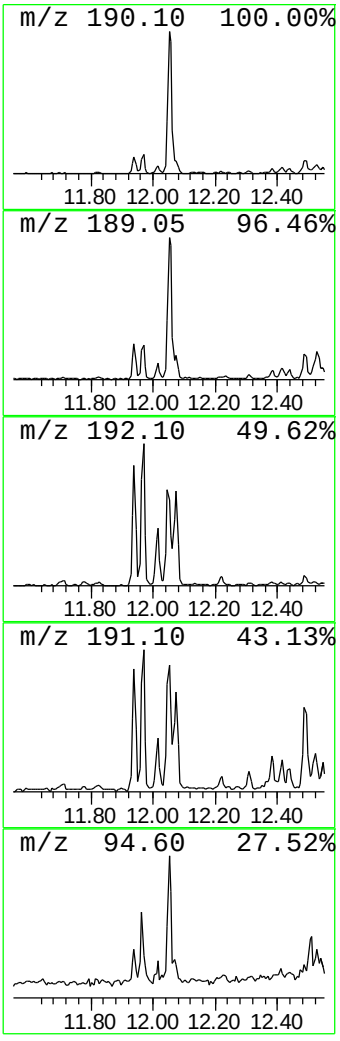
**********

Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.05 | 3.92 ng | 235709 | Phenanthrene-d10 | 11.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10 | 000203-64-5 | 76 |
| 2 | Benzaldehyde, 3,5-dichloro-2-hyd... | 190 | C7H4Cl2O2 | 000090-60-8 | 28 |
| 3 | Carbonic acid, butyl 2-formyl-4,... | 290 | C12H12Cl2O4 | 1000331-42-2 | 25 |
| 4 | 1,1'-Biphenyl, 4,4'-difluoro- | 190 | C12H8F2 | 000398-23-2 | 23 |
| 5 | 2,2'-Bis(4,5-dimethylimidazole) | 190 | C10H14N4 | 069286-06-2 | 23 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.M
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

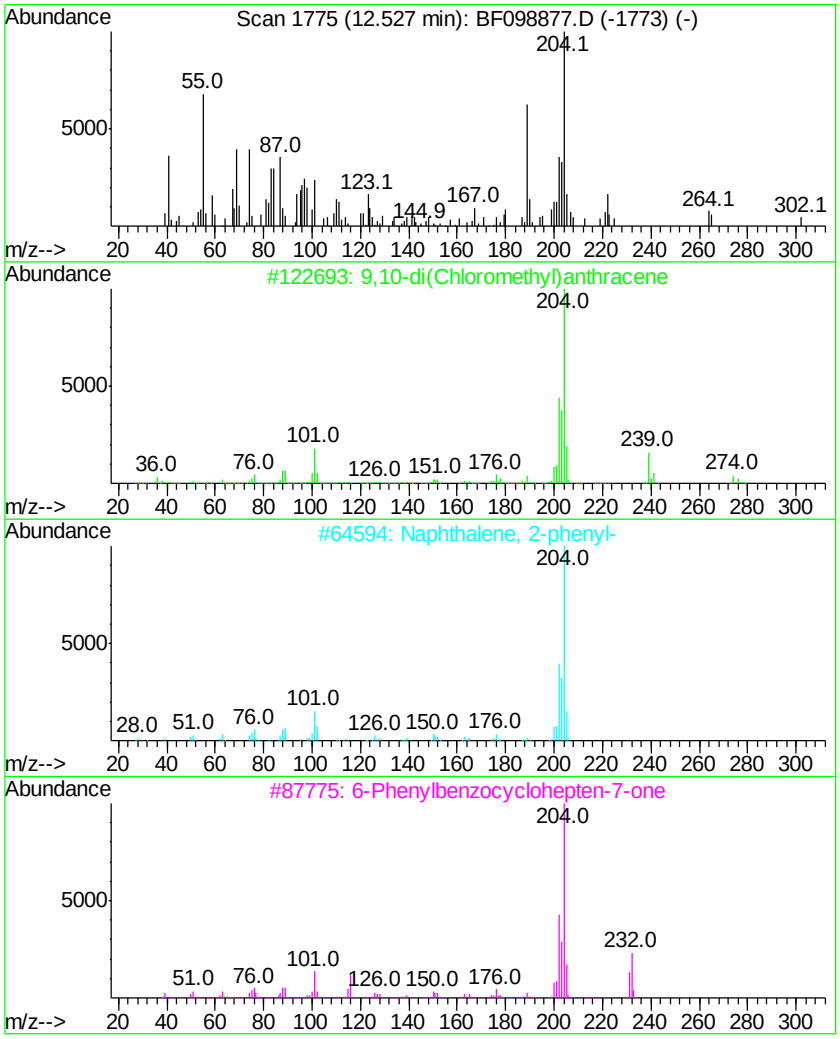
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

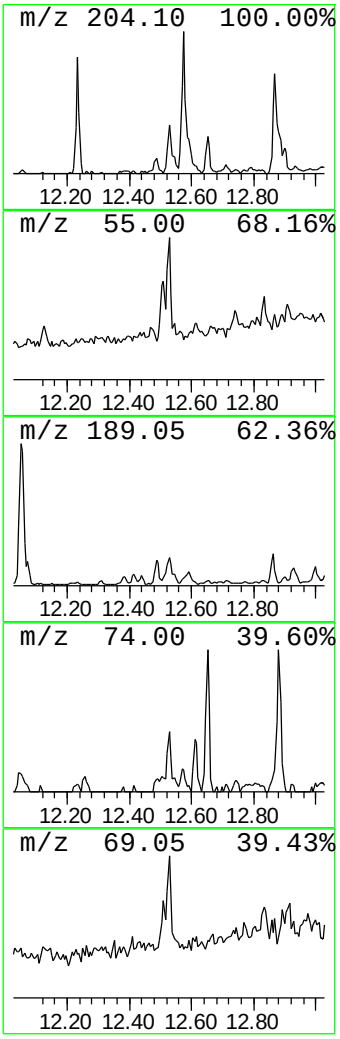
**********

Peak Number 7 unknown12.53 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.53 | 2.56 ng | 153712 | Phenanthrene-d10 | 11.44 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 9,10-di(Chloromethyl)anthracene | 274 | C16H12Cl2 | 010387-13-0 | 43 |
| 2 | Naphthalene, 2-phenyl- | 204 | C16H12 | 000612-94-2 | 38 |
| 3 | 6-Phenylbenzocyclohepten-7-one | 232 | C17H12O | 093327-56-1 | 38 |
| 4 | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12 | 006572-60-7 | 38 |
| 5 | Cyclododecane, 1,2-dithia- | 204 | C10H20S2 | 000294-67-7 | 38 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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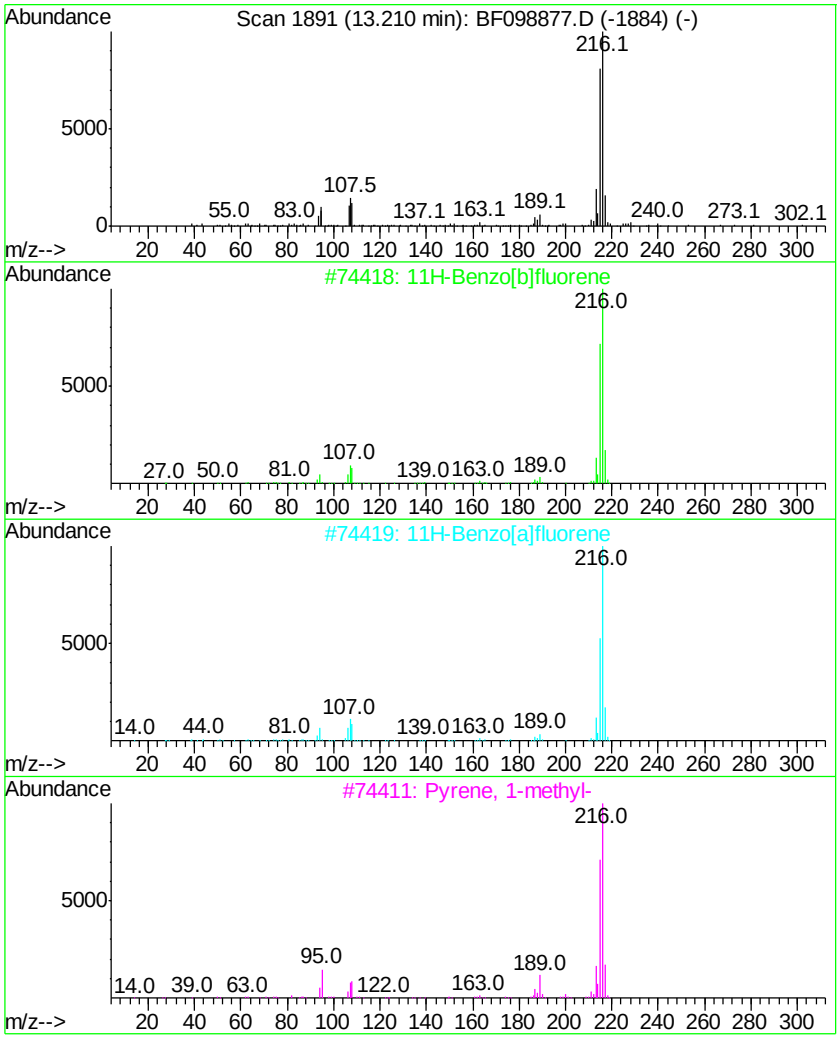
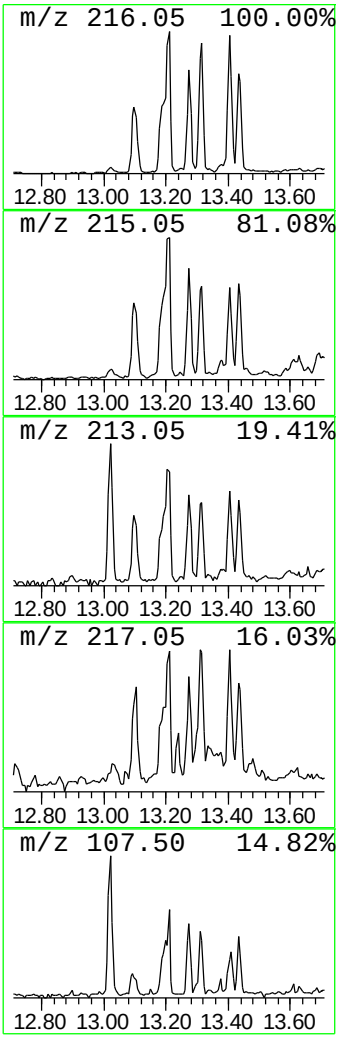
Peak Number 8 11H-Benzo[b]fluorene Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.21 | 3.34 ng | 261735 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 11H-Benzo[b]fluorene | 216 | C17H12 | 000243-17-4 | 93 |
| 2 | 11H-Benzo[a]fluorene | 216 | C17H12 | 000238-84-6 | 93 |
| 3 | Pyrene, 1-methyl- | 216 | C17H12 | 002381-21-7 | 91 |
| 4 | Fluoranthene, 2-methyl- | 216 | C17H12 | 033543-31-6 | 90 |
| 5 | 7H-Benzo[c]fluorene | 216 | C17H12 | 000205-12-9 | 64 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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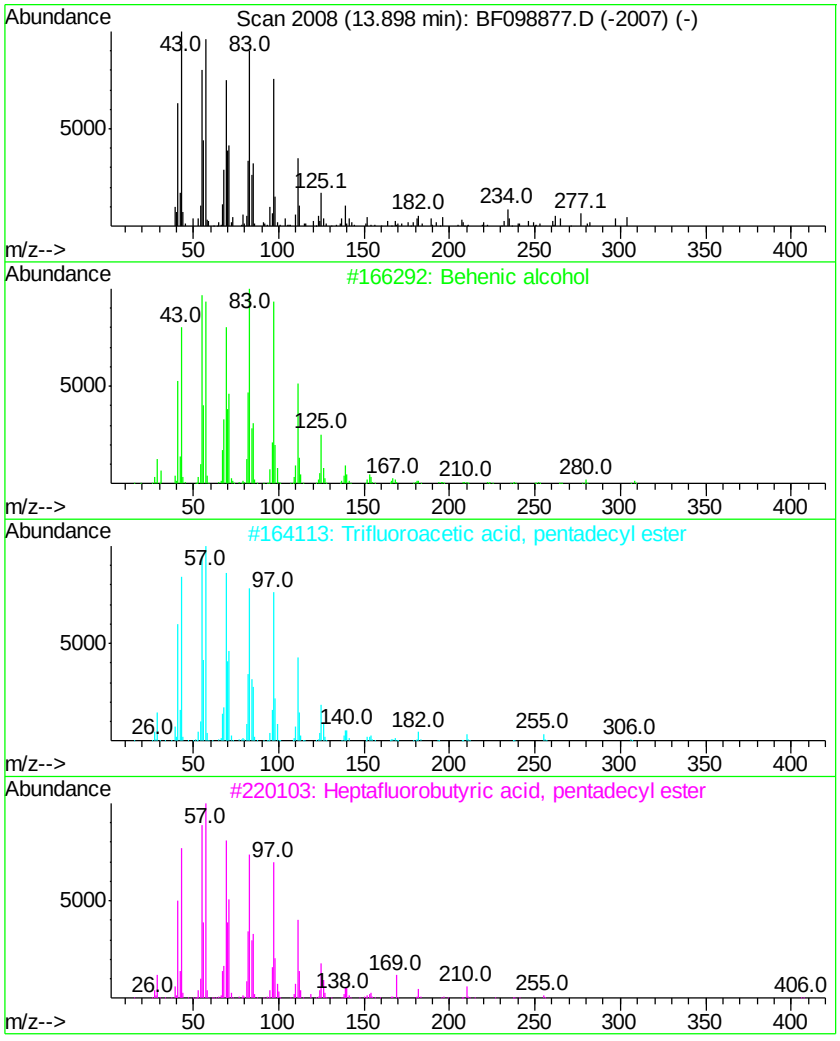
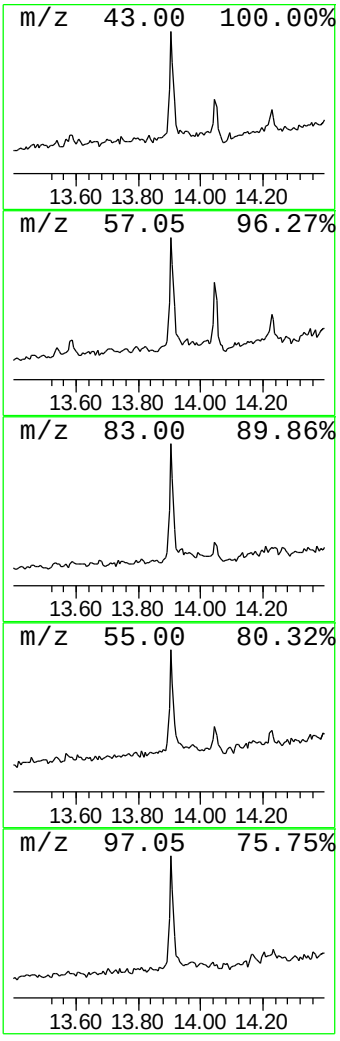
Peak Number 9 Behenic alcohol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.90 | 3.78 ng | 296619 | Chrysene-d12 | 14.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Behenic alcohol | 326 | C22H46O | 000661-19-8 | 90 |
| 2 | Trifluoroacetic acid, pentadecyl... | 324 | C17H31F3O2 | 959010-23-2 | 90 |
| 3 | Heptafluorobutyric acid, pentade... | 424 | C19H31F7O2 | 959261-23-5 | 90 |
| 4 | 1-Nonadecene | 266 | C19H38 | 018435-45-5 | 90 |
| 5 | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5 | 87 |



# Library Search Compound Report

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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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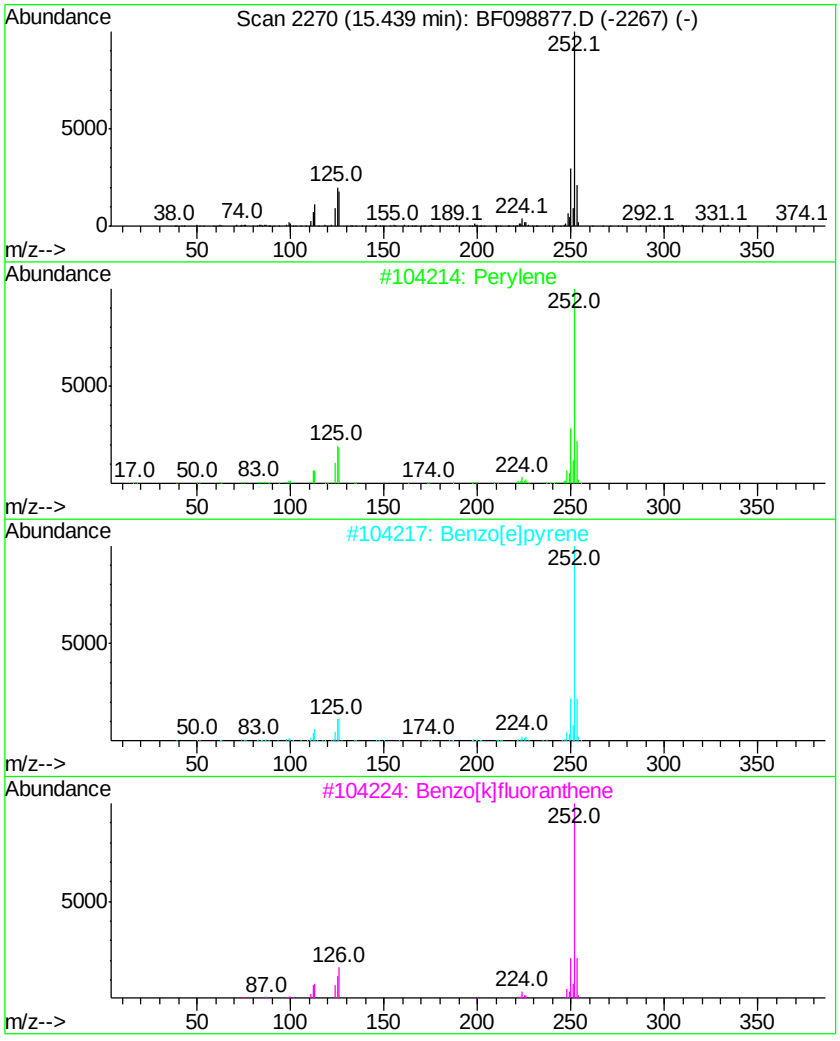
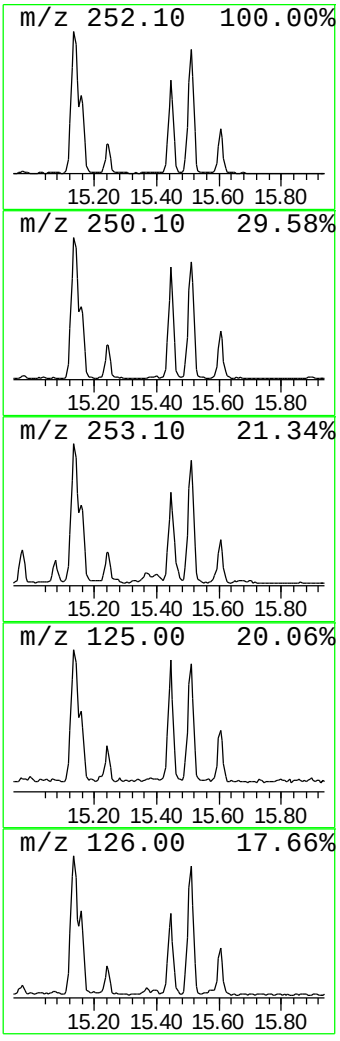
Peak Number 11 Perylene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.44 | 13.93 ng | 580722 | Perylene-d12 | 15.57 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Perylene | 252 | C20H12 | 000198-55-0 | 99 |
| 2 | Benzo[e]pyrene | 252 | C20H12 | 000192-97-2 | 98 |
| 3 | Benzo[k]fluoranthene | 252 | C20H12 | 000207-08-9 | 97 |
| 4 | Benz[e]acephenanthrylene | 252 | C20H12 | 000205-99-2 | 96 |
| 5 | Benzo[a]pyrene | 252 | C20H12 | 000050-32-8 | 96 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\HPCHEM1\BNA_F\DATA\BF092717\
Data File : BF098877.D
Acq On : 27 Sep 2017 22:00
Operator : SJ/JU
Sample : I5423-04
Misc :
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** BNA_F
**ClientSampleId :** SA-06-092517-B

Quant Method : Z:\HPCHEM1\BNA_F\METHODS\8270-BF092317.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... | 2.20 | 3.4 | ng | 156728 | 1 | 6.92 | 929849 | 20.0 |
| 2-Pentanone, 4-hy... | 5.14 | 11.7 | ng | 545185 | 1 | 6.92 | 929849 | 20.0 |
| unknown6.68 | 6.68 | 58.9 | ng | 2737260 | 1 | 6.92 | 929849 | 20.0 |
| Anthracene, 1-met... | 11.94 | 2.5 | ng | 151677 | 4 | 11.44 | 1202640 | 20.0 |
| 4H-Cyclopenta[def... | 12.05 | 3.9 | ng | 235709 | 4 | 11.44 | 1202640 | 20.0 |
| unknown12.53 | 12.53 | 2.6 | ng | 153712 | 4 | 11.44 | 1202640 | 20.0 |
| 11H-Benzo[b]fluorene | 13.21 | 3.3 | ng | 261735 | 5 | 14.08 | 1568070 | 20.0 |
| Behenic alcohol | 13.90 | 3.8 | ng | 296619 | 5 | 14.08 | 1568070 | 20.0 |
| Perylene | 15.44 | 13.9 | ng | 580722 | 6 | 15.57 | 833761 | 20.0 |