

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071119\  
 Data File : BF115511.D  
 Acq On : 11 Jul 2019 22:54  
 Operator : HP/JU  
 Sample : K3740-06  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-24

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

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-BF070519.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.181       | 10            | 16          | 34           | rVB      | 1085337        | 1546489       | 60.02%          | 3.638%        |
| 2         | 5.104       | 506           | 513         | 527          | rVB      | 123857         | 156137        | 6.06%           | 0.367%        |
| 3         | 5.510       | 577           | 582         | 585          | rBV      | 2062965        | 1858376       | 72.13%          | 4.372%        |
| 4         | 6.516       | 748           | 753         | 756          | rBV      | 2217756        | 2059871       | 79.95%          | 4.846%        |
| 5         | 6.663       | 773           | 778         | 781          | rBV      | 2246116        | 2129040       | 82.63%          | 5.009%        |
| 6         | 6.892       | 814           | 817         | 821          | rBV      | 1048134        | 838715        | 32.55%          | 1.973%        |
| 7         | 7.051       | 840           | 844         | 847          | rBV      | 2156666        | 1768052       | 68.62%          | 4.160%        |
| 8         | 7.451       | 907           | 912         | 915          | rBV      | 1444589        | 1335142       | 51.82%          | 3.141%        |
| 9         | 8.175       | 1031          | 1035        | 1038         | rBV      | 1334659        | 1085316       | 42.12%          | 2.553%        |
| 10        | 9.251       | 1214          | 1218        | 1221         | rBV      | 3120358        | 2576523       | 100.00%         | 6.062%        |
| 11        | 9.333       | 1229          | 1232        | 1241         | rVB4     | 27442          | 43415         | 1.69%           | 0.102%        |
| 12        | 9.639       | 1281          | 1284        | 1293         | rVB      | 584418         | 485957        | 18.86%          | 1.143%        |
| 13        | 9.792       | 1307          | 1310        | 1314         | rBV      | 34006          | 34661         | 1.35%           | 0.082%        |
| 14        | 9.933       | 1330          | 1334        | 1337         | rBV      | 1281061        | 1189808       | 46.18%          | 2.799%        |
| 15        | 9.963       | 1337          | 1339        | 1349         | rVB      | 106958         | 96912         | 3.76%           | 0.228%        |
| 16        | 10.133      | 1364          | 1368        | 1371         | rBV      | 53668          | 47779         | 1.85%           | 0.112%        |
| 17        | 10.475      | 1423          | 1426        | 1432         | rBV      | 77735          | 76534         | 2.97%           | 0.180%        |
| 18        | 10.716      | 1463          | 1467        | 1473         | rBV      | 1233323        | 1140717       | 44.27%          | 2.684%        |
| 19        | 10.839      | 1485          | 1488        | 1496         | rVB4     | 53724          | 80554         | 3.13%           | 0.190%        |
| 20        | 11.216      | 1549          | 1552        | 1557         | rVB      | 40648          | 41064         | 1.59%           | 0.097%        |
| 21        | 11.286      | 1557          | 1564        | 1566         | rBV5     | 47813          | 78823         | 3.06%           | 0.185%        |
| 22        | 11.310      | 1566          | 1568        | 1574         | rVB2     | 59976          | 75933         | 2.95%           | 0.179%        |
| 23        | 11.416      | 1582          | 1586        | 1588         | rBV      | 1321626        | 1150688       | 44.66%          | 2.707%        |
| 24        | 11.439      | 1588          | 1590        | 1593         | rVV      | 1013216        | 804651        | 31.23%          | 1.893%        |
| 25        | 11.486      | 1594          | 1598        | 1602         | rVV      | 233840         | 235880        | 9.15%           | 0.555%        |
| 26        | 11.522      | 1602          | 1604        | 1608         | rVV2     | 32515          | 32063         | 1.24%           | 0.075%        |
| 27        | 11.639      | 1620          | 1624        | 1627         | rBV2     | 99318          | 108262        | 4.20%           | 0.255%        |
| 28        | 11.710      | 1634          | 1636        | 1640         | rVB2     | 56582          | 46093         | 1.79%           | 0.108%        |
| 29        | 11.916      | 1668          | 1671        | 1673         | rBV      | 125879         | 105587        | 4.10%           | 0.248%        |
| 30        | 11.939      | 1673          | 1675        | 1679         | rVV2     | 267650         | 276841        | 10.74%          | 0.651%        |
| 31        | 11.992      | 1682          | 1684        | 1687         | rVV      | 66039          | 58384         | 2.27%           | 0.137%        |
| 32        | 12.027      | 1687          | 1690        | 1693         | rVV      | 256584         | 280717        | 10.90%          | 0.660%        |
| 33        | 12.051      | 1693          | 1694        | 1699         | rVB      | 102732         | 61333         | 2.38%           | 0.144%        |
| 34        | 12.121      | 1703          | 1706        | 1708         | rVB2     | 48490          | 42897         | 1.66%           | 0.101%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071119\  
 Data File : BF115511.D  
 Acq On : 11 Jul 2019 22:54  
 Operator : HP/JU  
 Sample : K3740-06  
 Misc :  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 COMP-24

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 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-BF070519.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.210 | 1718 | 1721 | 1723 | rBV  | 98508   | 86932   | 3.37%  | 0.205% |
| 36 | 12.233 | 1723 | 1725 | 1731 | rVB3 | 65666   | 59285   | 2.30%  | 0.139% |
| 37 | 12.363 | 1745 | 1747 | 1750 | rVB  | 50958   | 38511   | 1.49%  | 0.091% |
| 38 | 12.392 | 1750 | 1752 | 1754 | rBV  | 35556   | 34627   | 1.34%  | 0.081% |
| 39 | 12.469 | 1761 | 1765 | 1767 | rBV  | 92196   | 96734   | 3.75%  | 0.228% |
| 40 | 12.510 | 1768 | 1772 | 1776 | rVV3 | 69171   | 99964   | 3.88%  | 0.235% |
| 41 | 12.551 | 1776 | 1779 | 1784 | rVB3 | 74271   | 83974   | 3.26%  | 0.198% |
| 42 | 12.627 | 1788 | 1792 | 1796 | rBV  | 2031539 | 1872795 | 72.69% | 4.406% |
| 43 | 12.674 | 1797 | 1800 | 1806 | rVB4 | 52220   | 87093   | 3.38%  | 0.205% |
| 44 | 12.727 | 1806 | 1809 | 1811 | rBV2 | 96634   | 106392  | 4.13%  | 0.250% |
| 45 | 12.780 | 1816 | 1818 | 1821 | rVB  | 50932   | 43695   | 1.70%  | 0.103% |
| 46 | 12.857 | 1825 | 1831 | 1834 | rBV  | 1795369 | 1973495 | 76.60% | 4.643% |
| 47 | 12.904 | 1837 | 1839 | 1844 | rVB2 | 79111   | 82406   | 3.20%  | 0.194% |
| 48 | 12.974 | 1848 | 1851 | 1852 | rBV  | 105026  | 89999   | 3.49%  | 0.212% |
| 49 | 12.998 | 1852 | 1855 | 1863 | rVB  | 2388036 | 2200566 | 85.41% | 5.177% |
| 50 | 13.074 | 1864 | 1868 | 1871 | rBV2 | 122885  | 192434  | 7.47%  | 0.453% |
| 51 | 13.139 | 1877 | 1879 | 1881 | rBV2 | 57758   | 55019   | 2.14%  | 0.129% |
| 52 | 13.163 | 1881 | 1883 | 1884 | rVV2 | 103143  | 94697   | 3.68%  | 0.223% |
| 53 | 13.186 | 1884 | 1887 | 1890 | rVB  | 302572  | 278351  | 10.80% | 0.655% |
| 54 | 13.251 | 1895 | 1898 | 1901 | rVV2 | 214135  | 171010  | 6.64%  | 0.402% |
| 55 | 13.286 | 1901 | 1904 | 1907 | rVV  | 216448  | 214810  | 8.34%  | 0.505% |
| 56 | 13.316 | 1907 | 1909 | 1912 | rVB  | 98455   | 87840   | 3.41%  | 0.207% |
| 57 | 13.345 | 1912 | 1914 | 1917 | rBV  | 48896   | 50758   | 1.97%  | 0.119% |
| 58 | 13.380 | 1918 | 1920 | 1923 | rVB  | 100809  | 77388   | 3.00%  | 0.182% |
| 59 | 13.410 | 1923 | 1925 | 1928 | rBV  | 104304  | 101311  | 3.93%  | 0.238% |
| 60 | 13.480 | 1934 | 1937 | 1943 | rVB2 | 242092  | 218781  | 8.49%  | 0.515% |
| 61 | 13.580 | 1952 | 1954 | 1957 | rBV2 | 70465   | 70119   | 2.72%  | 0.165% |
| 62 | 13.686 | 1970 | 1972 | 1977 | rVB  | 170255  | 182456  | 7.08%  | 0.429% |
| 63 | 13.804 | 1988 | 1992 | 1995 | rBV2 | 213307  | 279265  | 10.84% | 0.657% |
| 64 | 13.833 | 1995 | 1997 | 1999 | rVV  | 193810  | 158215  | 6.14%  | 0.372% |
| 65 | 13.857 | 1999 | 2001 | 2005 | rVV2 | 160113  | 224410  | 8.71%  | 0.528% |
| 66 | 13.898 | 2005 | 2008 | 2016 | rVB3 | 265064  | 393947  | 15.29% | 0.927% |
| 67 | 14.051 | 2029 | 2034 | 2037 | rBV3 | 1569016 | 2319245 | 90.01% | 5.456% |
| 68 | 14.080 | 2037 | 2039 | 2045 | rVB  | 1184660 | 1048831 | 40.71% | 2.468% |
| 69 | 14.163 | 2050 | 2053 | 2056 | rVB  | 230227  | 181797  | 7.06%  | 0.428% |
| 70 | 14.274 | 2069 | 2072 | 2076 | rBV2 | 163978  | 189933  | 7.37%  | 0.447% |
| 71 | 14.439 | 2098 | 2100 | 2103 | rVB  | 205364  | 174086  | 6.76%  | 0.410% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

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-BF070519.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 14.474 | 2104 | 2106 | 2109 | rVB  | 127512  | 97560   | 3.79%  | 0.230% |
| 73 | 14.533 | 2113 | 2116 | 2119 | rVB2 | 118145  | 127100  | 4.93%  | 0.299% |
| 74 | 14.568 | 2119 | 2122 | 2123 | rBV  | 116803  | 119347  | 4.63%  | 0.281% |
| 75 | 15.104 | 2209 | 2213 | 2216 | rBV  | 1066780 | 1621185 | 62.92% | 3.814% |
| 76 | 15.186 | 2224 | 2227 | 2229 | rBV2 | 168427  | 193456  | 7.51%  | 0.455% |
| 77 | 15.410 | 2261 | 2265 | 2271 | rVB  | 646036  | 875154  | 33.97% | 2.059% |
| 78 | 15.474 | 2272 | 2276 | 2280 | rVV  | 844115  | 1026167 | 39.83% | 2.414% |
| 79 | 15.539 | 2283 | 2287 | 2290 | rVV  | 792432  | 1043067 | 40.48% | 2.454% |
| 80 | 15.568 | 2290 | 2292 | 2299 | rVB3 | 426970  | 626461  | 24.31% | 1.474% |
| 81 | 17.021 | 2534 | 2539 | 2547 | rVB2 | 344571  | 666667  | 25.87% | 1.568% |
| 82 | 17.468 | 2611 | 2615 | 2624 | rVB  | 229874  | 438632  | 17.02% | 1.032% |

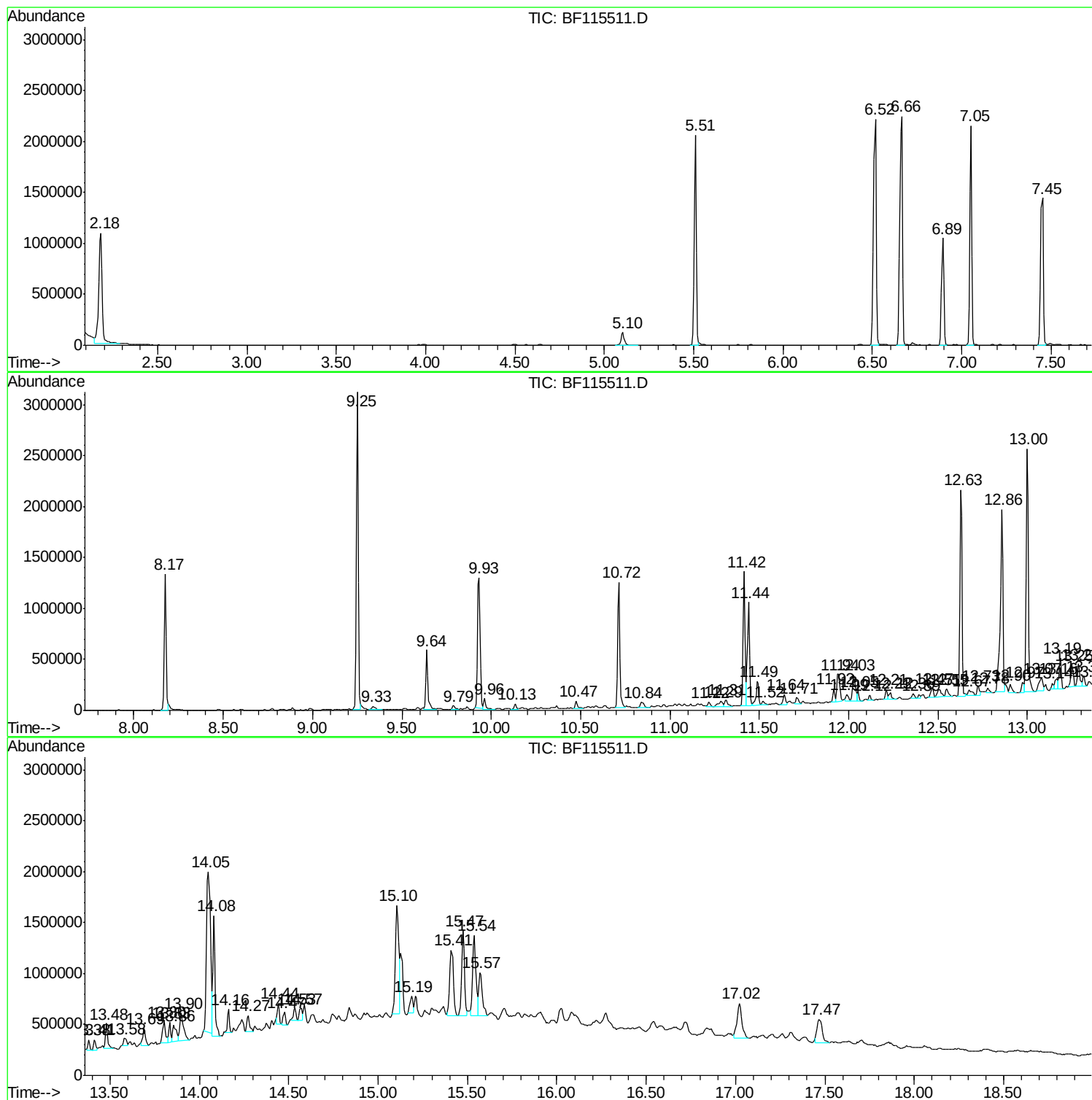
Sum of corrected areas: 42505181

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.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\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

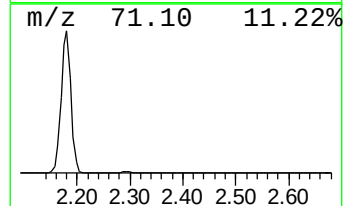
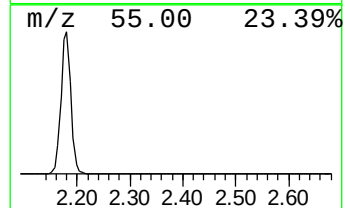
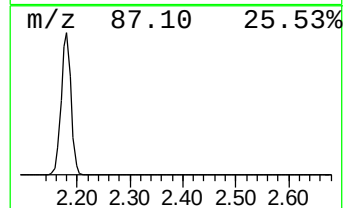
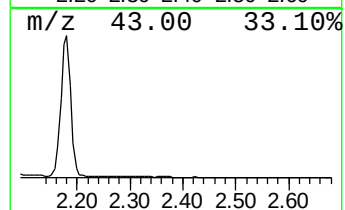
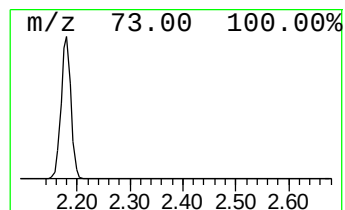
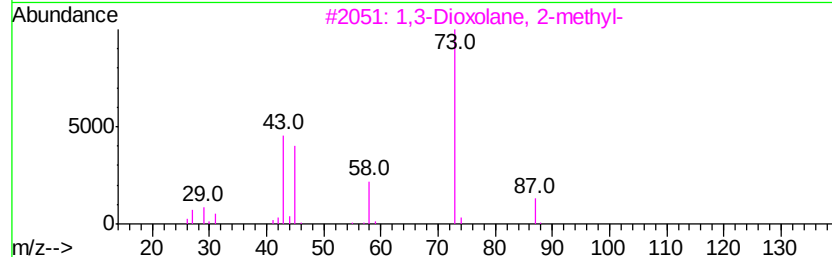
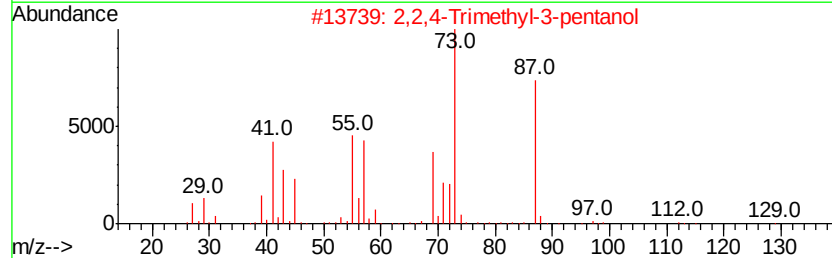
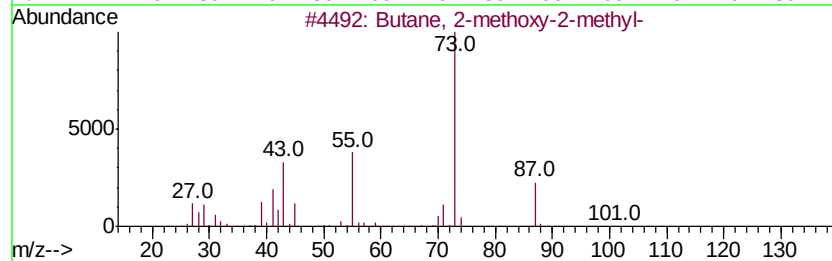
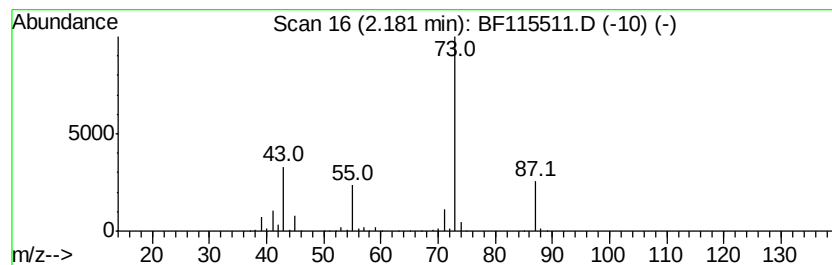
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 2.18 | 36.88 ng | 1546490 | 1,4-Dichlorobenzene-d4 | 6.89 |

| 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       |   | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 25   |
| 4       |   | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 5       |   | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

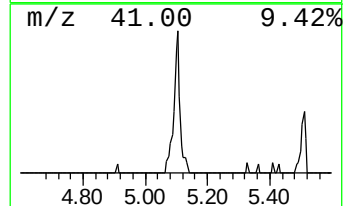
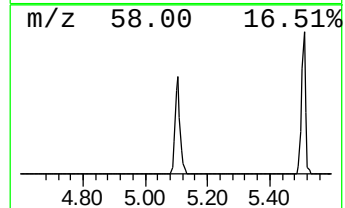
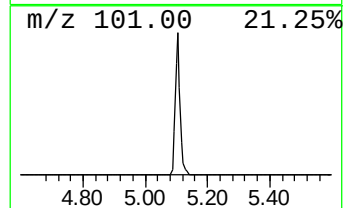
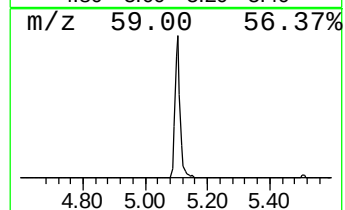
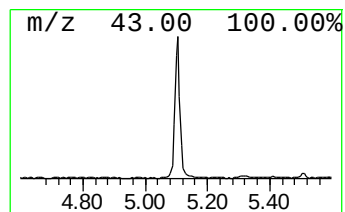
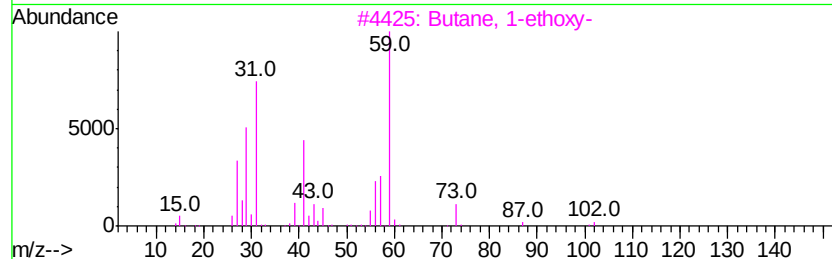
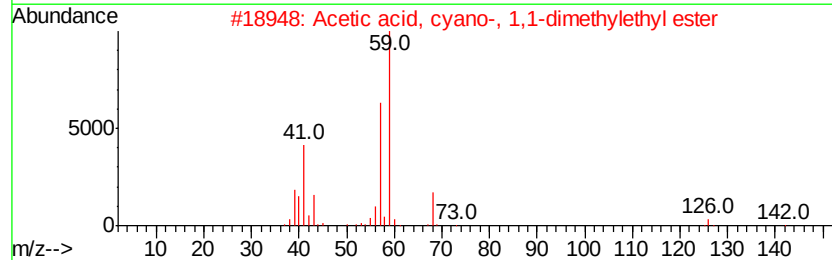
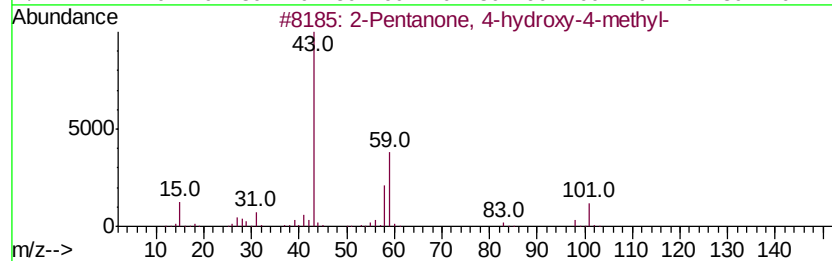
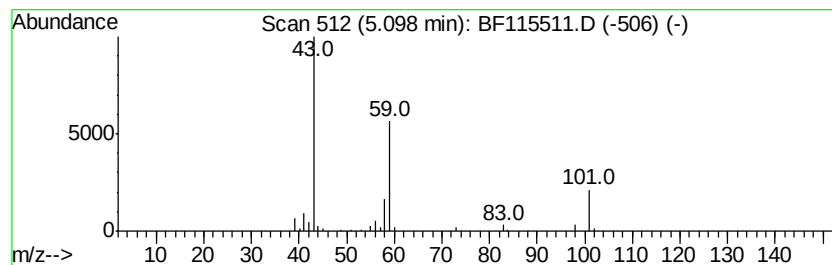
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 7

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 5.10 | 3.72 ng | 156137 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 25   |
| 3    |    | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |
| 4    |    | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |
| 5    |    | Butane                               | 58  | C4H10    | 000106-97-8 | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

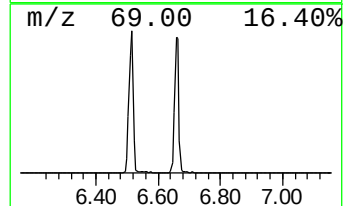
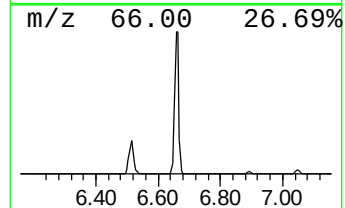
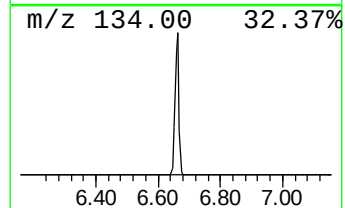
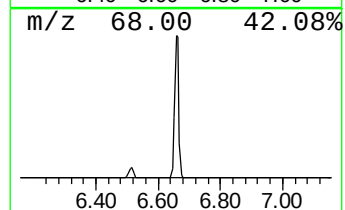
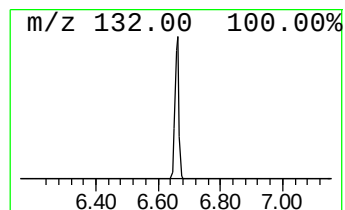
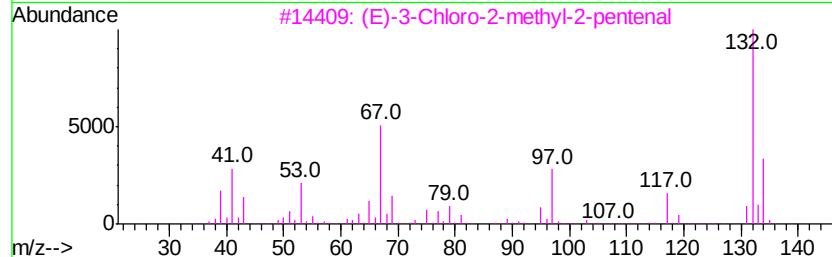
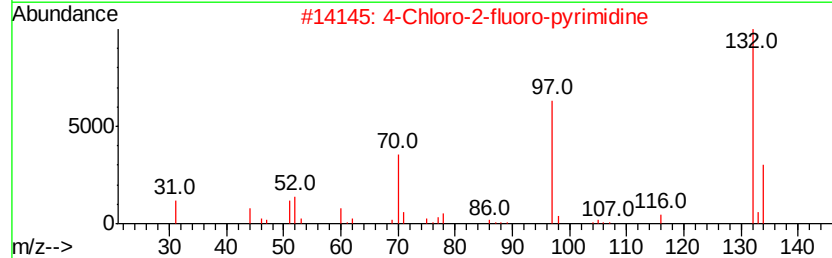
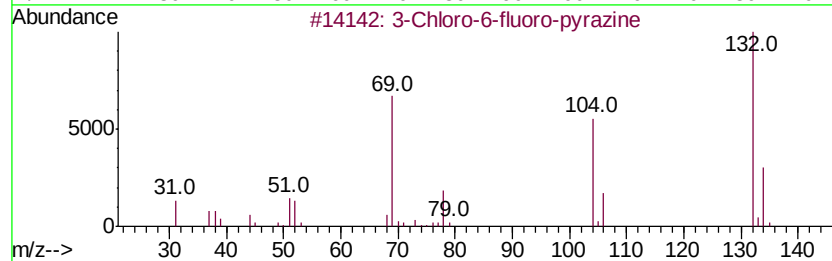
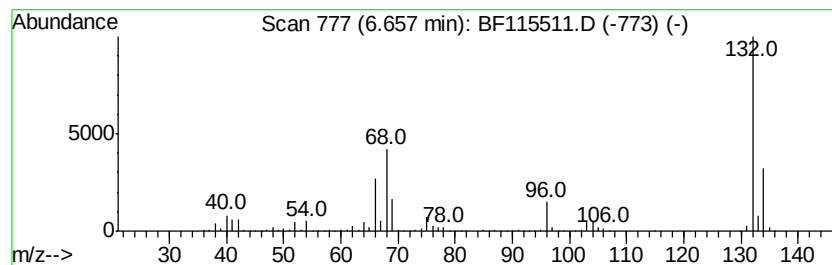
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 unknown6.66 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.66 | 50.77 ng | 2129040 | 1,4-Dichlorobenzene-d4 | 6.89 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    | 1-Methylpyrrolo[1,2-a]pyrazine   | 132 | C8H8N2    | 064608-59-9  | 9    |
| 5    |    | 1H-Benzimidazole, 2-methyl-      | 132 | C8H8N2    | 000615-15-6  | 9    |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

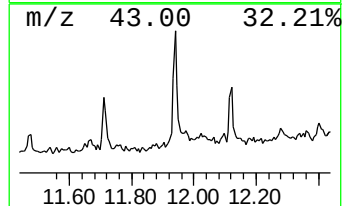
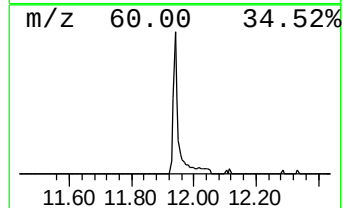
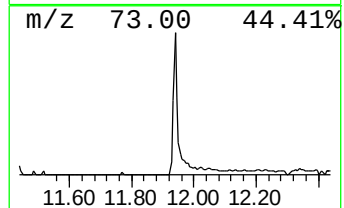
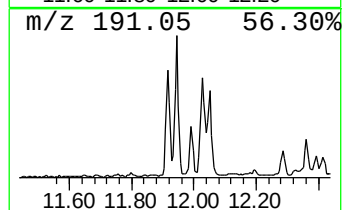
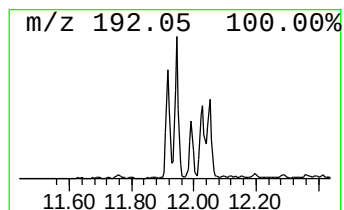
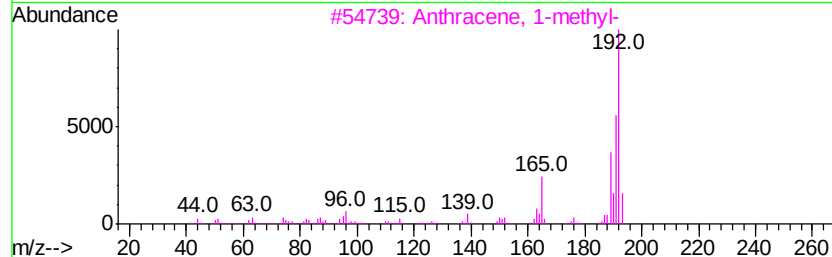
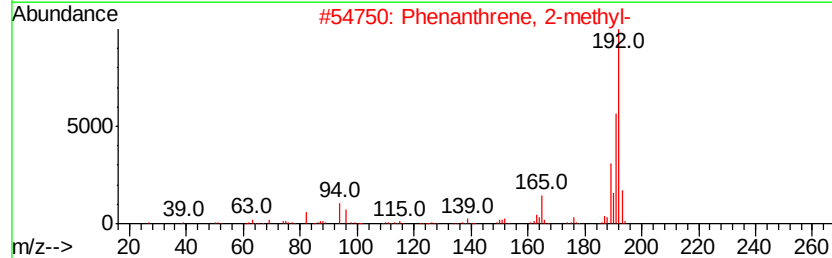
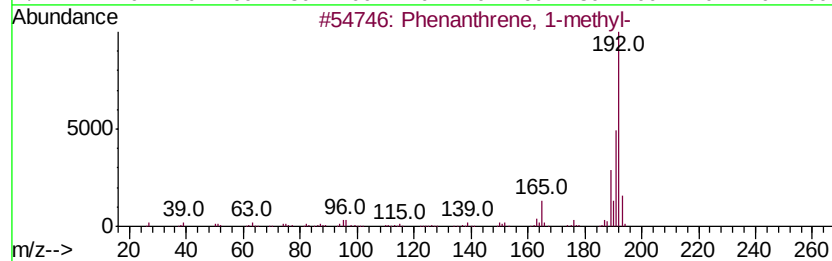
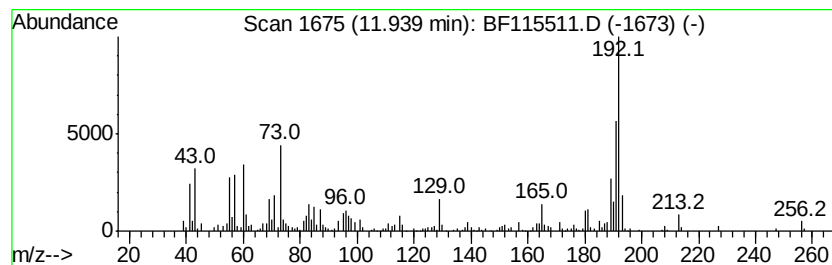
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Phenanthrene, 1-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.94 | 4.81 ng | 276841 | Phenanthrene-d10 | 11.42 |

| Hit# of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------------|-----|---------|-------------|------|
| 1       |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 96   |
| 2       |   | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 96   |
| 3       |   | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 96   |
| 4       |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 95   |
| 5       |   | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 95   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

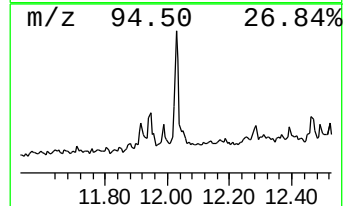
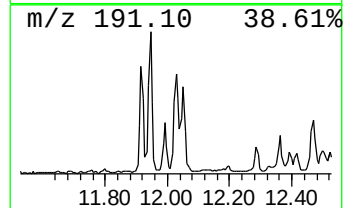
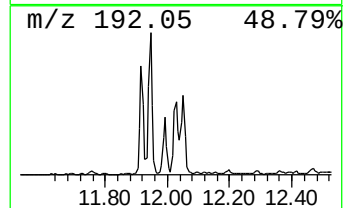
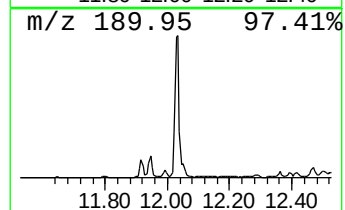
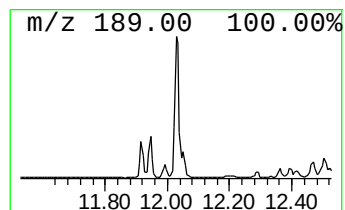
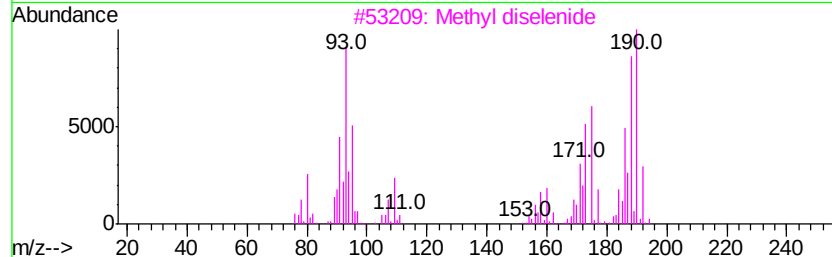
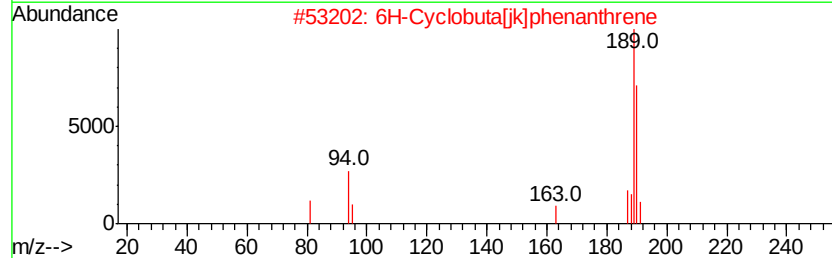
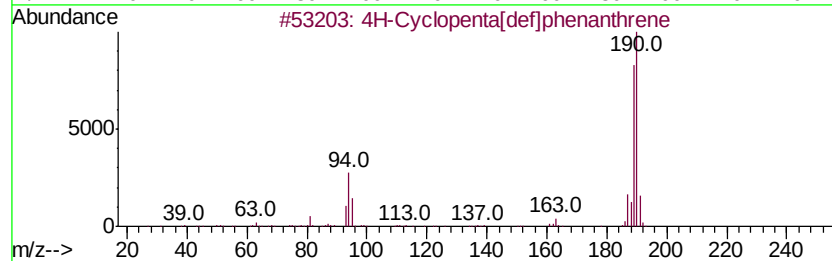
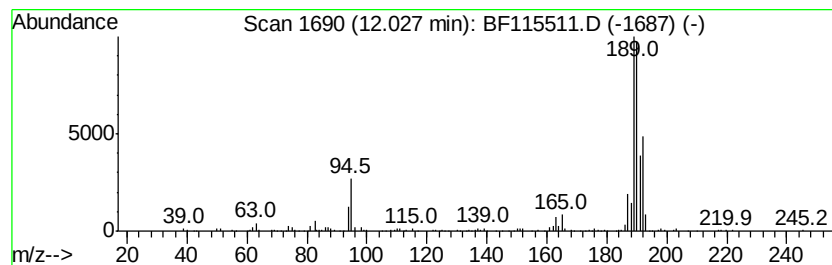
Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.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.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 12.03     | 4.88 ng                             | 280717 | Phenanthrene-d10 | 11.42       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 70   |
| 2         | 6H-Cyclobuta[ik]phenanthrene        | 190    | C15H10           | 083469-43-6 | 40   |
| 3         | Methyl diselenide                   | 190    | C2H6Se2          | 007101-31-7 | 38   |
| 4         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2 | 23   |
| 5         | 1-(Phenylethynyl)-1H-1,2,3-benzo... | 219    | C14H9N3          | 209912-23-2 | 12   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

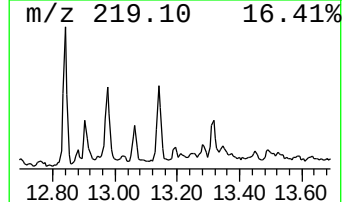
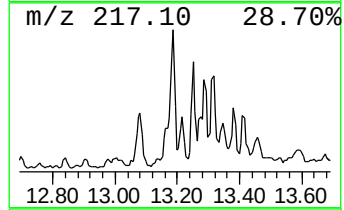
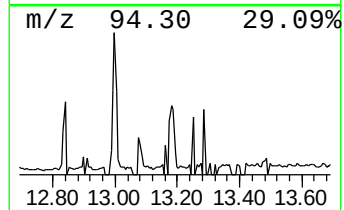
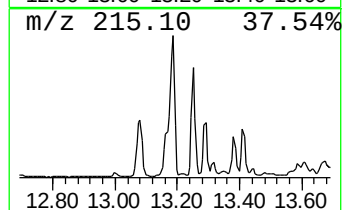
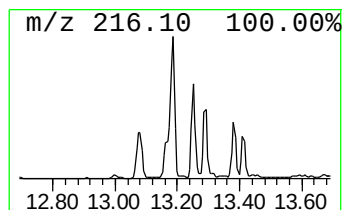
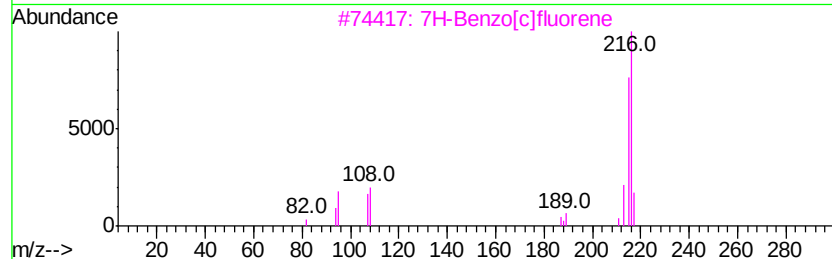
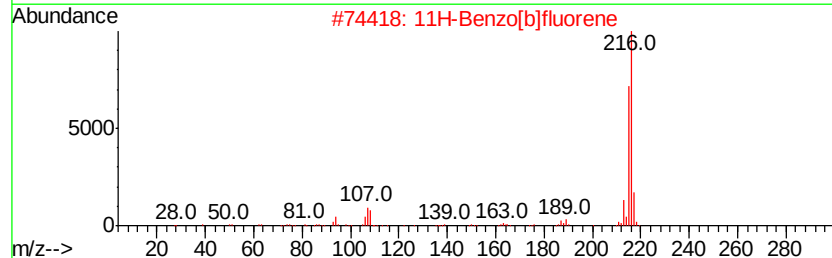
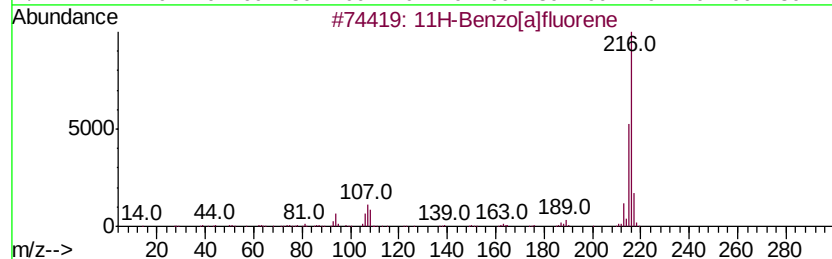
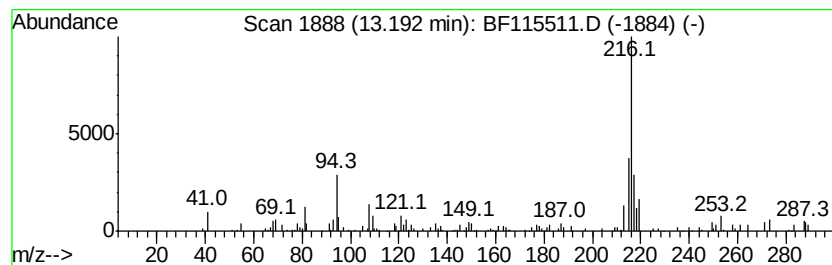
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 11H-Benzo[a]fluorene Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.19 | 2.40 ng | 278351 | Chrysene-d12     | 14.06 |

| Hit# of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|---------|---|----------------------|-----|---------|-------------|------|
| 1       |   | 11H-Benzo[a]fluorene | 216 | C17H12  | 000238-84-6 | 97   |
| 2       |   | 11H-Benzo[b]fluorene | 216 | C17H12  | 000243-17-4 | 94   |
| 3       |   | 7H-Benzo[c]fluorene  | 216 | C17H12  | 000205-12-9 | 87   |
| 4       |   | Pyrene, 1-methyl-    | 216 | C17H12  | 002381-21-7 | 87   |
| 5       |   | Pyrene, 2-methyl-    | 216 | C17H12  | 003442-78-2 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

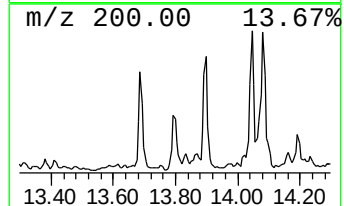
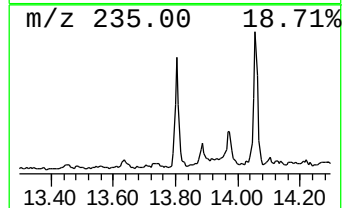
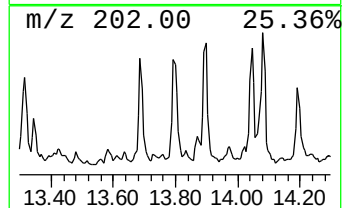
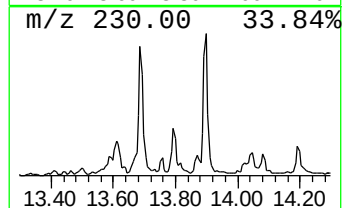
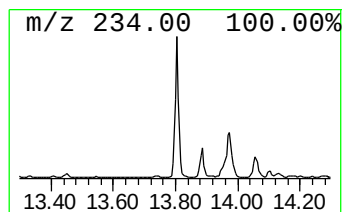
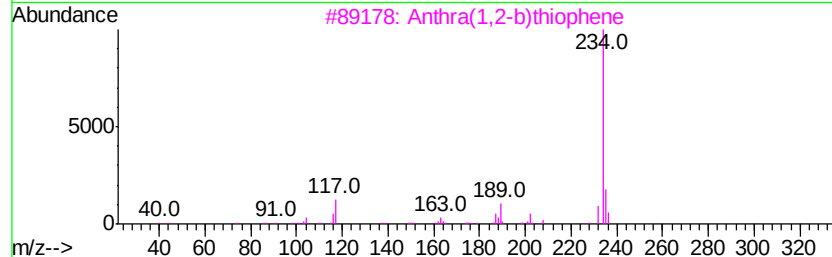
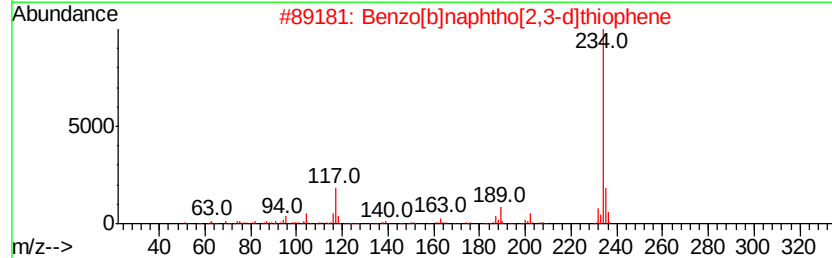
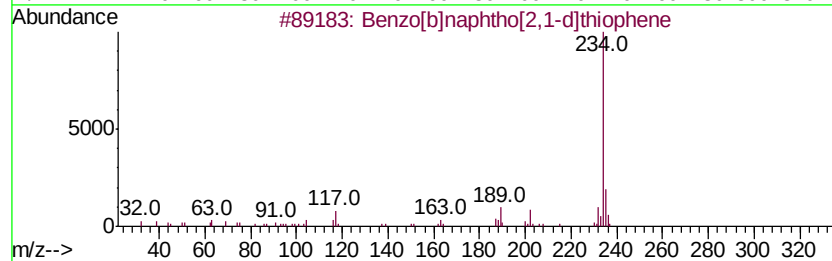
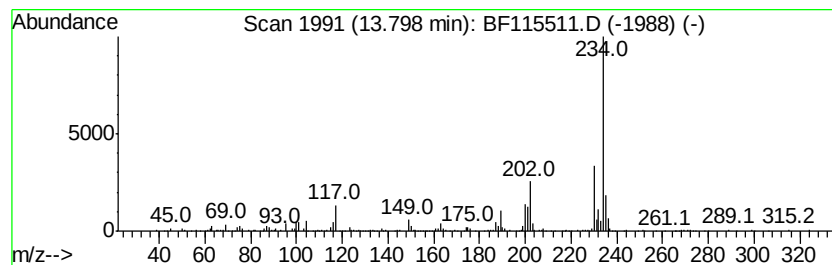
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.80 | 2.41 ng | 279265 | Chrysene-d12     | 14.06 |

| Hit# | of | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[b]naphtho[2,1-d]thiophene | 234 | C16H10S | 000239-35-0 | 97   |
| 2    |    | Benzo[b]naphtho[2,3-d]thiophene | 234 | C16H10S | 000243-46-9 | 96   |
| 3    |    | Anthra(1,2-b)thiophene          | 234 | C16H10S | 000227-86-1 | 93   |
| 4    |    | Phenanthro(2,1-b)thiophene      | 234 | C16H10S | 000219-25-0 | 90   |
| 5    |    | Benzo[b]naphtho[1,2-d]thiophene | 234 | C16H10S | 000205-43-6 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

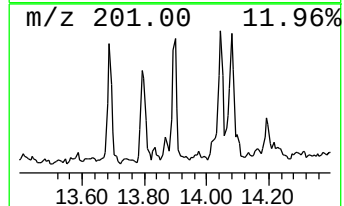
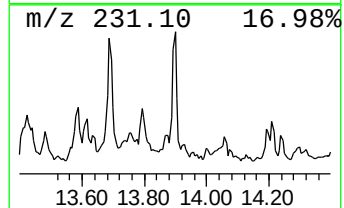
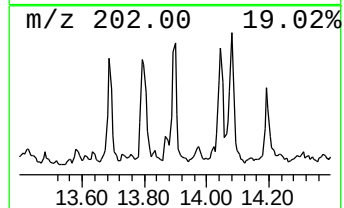
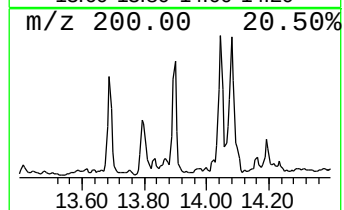
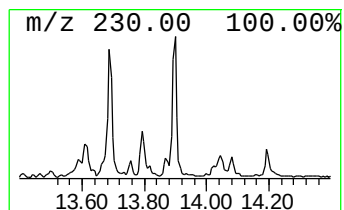
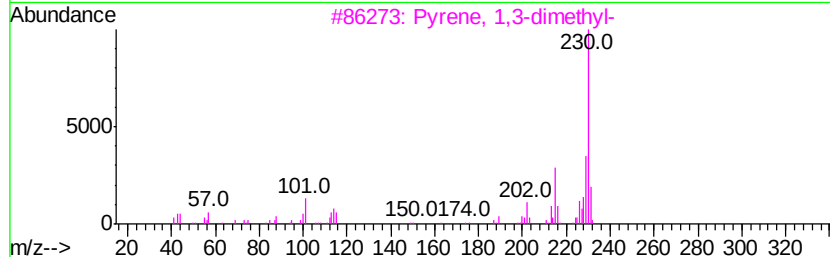
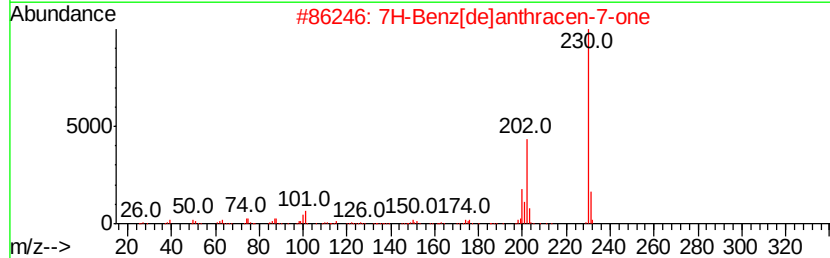
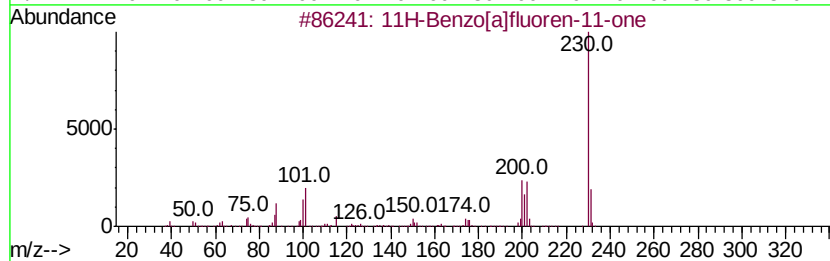
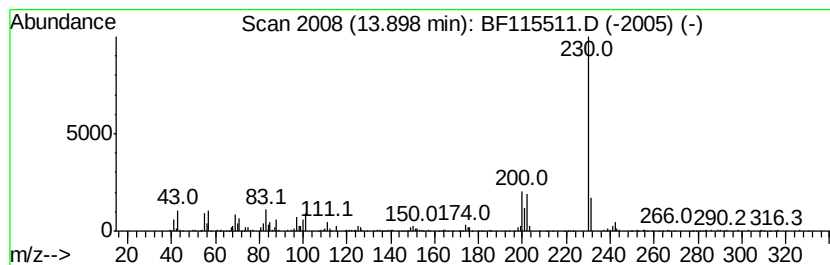
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 11H-Benzo[a]fluoren-11-one Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.90 | 3.40 ng | 393947 | Chrysene-d12     | 14.06 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 95   |
| 2    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 91   |
| 3    |    | Pyrene, 1,3-dimethyl-      | 230 | C18H14  | 064401-21-4 | 53   |
| 4    |    | o-Terphenyl                | 230 | C18H14  | 000084-15-1 | 53   |
| 5    |    | 5,6-Dihydrochrysene        | 230 | C18H14  | 002091-92-1 | 52   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

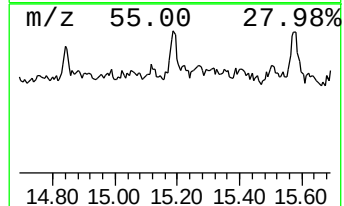
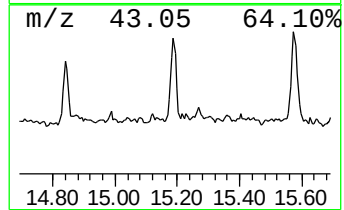
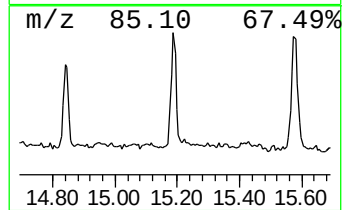
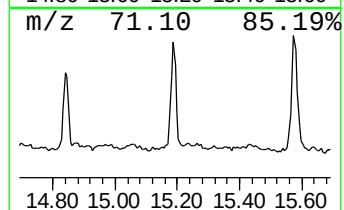
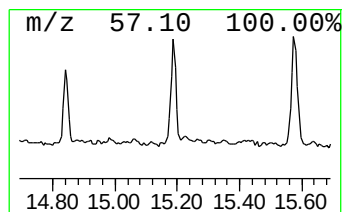
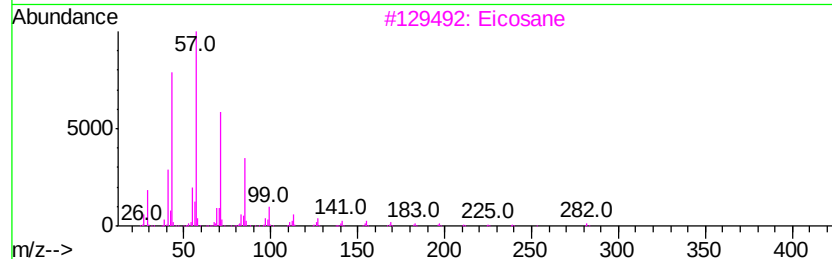
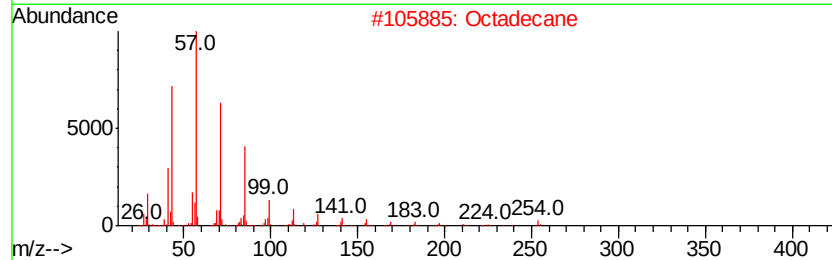
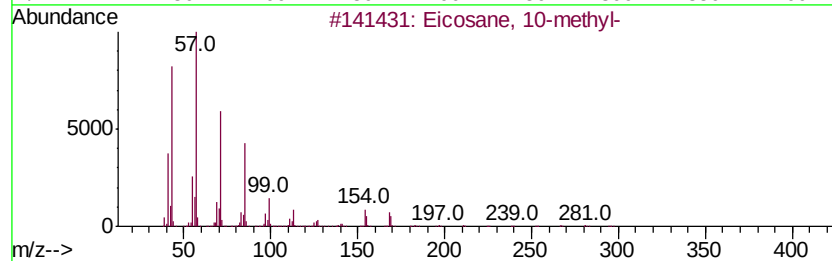
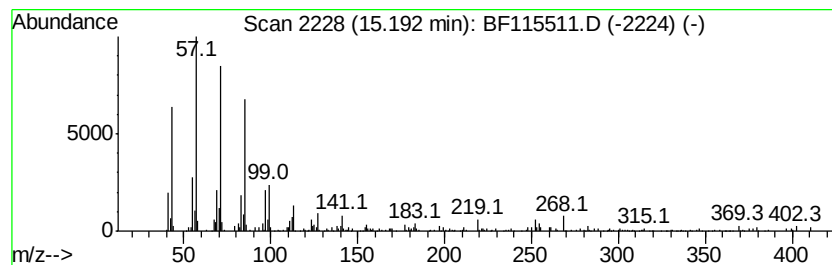
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Eicosane, 10-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.19 | 3.71 ng | 193456 | Perylene-d12     | 15.54 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 89   |
| 2    |    | Octadecane           | 254 | C18H38  | 000593-45-3 | 83   |
| 3    |    | Eicosane             | 282 | C20H42  | 000112-95-8 | 76   |
| 4    |    | Heneicosane          | 296 | C21H44  | 000629-94-7 | 76   |
| 5    |    | Hexacosane           | 366 | C26H54  | 000630-01-3 | 70   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF071119\  
Data File : BF115511.D  
Acq On : 11 Jul 2019 22:54  
Operator : HP/JU  
Sample : K3740-06  
Misc :  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
COMP-24

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF070519.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane, 2-methoxy... | 2.18  | 36.9    | ng    | 1546490  | 1                     | 6.89  | 838715  | 20.0 |
| 2-Pentanone, 4-hy... | 5.10  | 3.7     | ng    | 156137   | 1                     | 6.89  | 838715  | 20.0 |
| unknown6.66          | 6.66  | 50.8    | ng    | 2129040  | 1                     | 6.89  | 838715  | 20.0 |
| Phenanthrene, 1-m... | 11.94 | 4.8     | ng    | 276841   | 4                     | 11.42 | 1150690 | 20.0 |
| 4H-Cyclopenta[def... | 12.03 | 4.9     | ng    | 280717   | 4                     | 11.42 | 1150690 | 20.0 |
| 11H-Benzo[a]fluorene | 13.19 | 2.4     | ng    | 278351   | 5                     | 14.06 | 2319250 | 20.0 |
| Benzo[b]naphtho[2... | 13.80 | 2.4     | ng    | 279265   | 5                     | 14.06 | 2319250 | 20.0 |
| 11H-Benzo[a]fluor... | 13.90 | 3.4     | ng    | 393947   | 5                     | 14.06 | 2319250 | 20.0 |
| Eicosane, 10-methyl- | 15.19 | 3.7     | ng    | 193456   | 6                     | 15.54 | 1043070 | 20.0 |