

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
 Data File : BF112912.D  
 Acq On : 7 Mar 2019 5:44  
 Operator : JU/SJ  
 Sample : K1705-13  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-027-SW024-022719

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-BF022719.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         | 4.928       | 479           | 483         | 491          | rVB      | 32769          | 47512         | 1.20%           | 0.100%        |
| 2         | 5.345       | 549           | 554         | 557          | rBV      | 3893462        | 3825296       | 96.89%          | 8.030%        |
| 3         | 6.369       | 723           | 728         | 746          | rBV      | 3934388        | 3947927       | 100.00%         | 8.287%        |
| 4         | 6.504       | 746           | 751         | 754          | rBV      | 3925459        | 3939668       | 99.79%          | 8.270%        |
| 5         | 6.734       | 786           | 790         | 793          | rBV      | 1434331        | 1243277       | 31.49%          | 2.610%        |
| 6         | 6.886       | 812           | 816         | 820          | rBV      | 3455260        | 3129361       | 79.27%          | 6.569%        |
| 7         | 7.286       | 880           | 884         | 897          | rBV      | 2351080        | 2462286       | 62.37%          | 5.169%        |
| 8         | 8.010       | 1003          | 1007        | 1013         | rBV      | 1452597        | 1362093       | 34.50%          | 2.859%        |
| 9         | 8.057       | 1013          | 1015        | 1027         | rVB3     | 36969          | 78681         | 1.99%           | 0.165%        |
| 10        | 8.357       | 1063          | 1066        | 1073         | rBV3     | 29101          | 47760         | 1.21%           | 0.100%        |
| 11        | 9.086       | 1186          | 1190        | 1201         | rBV      | 4100462        | 3719074       | 94.20%          | 7.807%        |
| 12        | 9.480       | 1253          | 1257        | 1263         | rVB      | 217958         | 200217        | 5.07%           | 0.420%        |
| 13        | 9.763       | 1301          | 1305        | 1308         | rBV      | 1360845        | 1371294       | 34.73%          | 2.878%        |
| 14        | 9.792       | 1308          | 1310        | 1314         | rVB      | 75434          | 63956         | 1.62%           | 0.134%        |
| 15        | 9.969       | 1337          | 1340        | 1343         | rBV2     | 61383          | 61686         | 1.56%           | 0.129%        |
| 16        | 10.304      | 1395          | 1397        | 1403         | rVB2     | 53671          | 53270         | 1.35%           | 0.112%        |
| 17        | 10.545      | 1433          | 1438        | 1450         | rBV      | 2456024        | 2453196       | 62.14%          | 5.149%        |
| 18        | 10.763      | 1468          | 1475        | 1479         | rBV6     | 27949          | 48054         | 1.22%           | 0.101%        |
| 19        | 10.916      | 1497          | 1501        | 1506         | rBV4     | 52602          | 68890         | 1.74%           | 0.145%        |
| 20        | 11.039      | 1520          | 1522        | 1528         | rVB      | 48699          | 55224         | 1.40%           | 0.116%        |
| 21        | 11.092      | 1528          | 1531        | 1534         | rBV3     | 28616          | 43524         | 1.10%           | 0.091%        |
| 22        | 11.204      | 1546          | 1550        | 1552         | rBV3     | 29608          | 44881         | 1.14%           | 0.094%        |
| 23        | 11.239      | 1552          | 1556        | 1558         | rVV      | 1463112        | 1469113       | 37.21%          | 3.084%        |
| 24        | 11.257      | 1558          | 1559        | 1564         | rVV      | 613712         | 513436        | 13.01%          | 1.078%        |
| 25        | 11.310      | 1565          | 1568        | 1572         | rVV      | 159082         | 159047        | 4.03%           | 0.334%        |
| 26        | 11.351      | 1572          | 1575        | 1581         | rVB6     | 33388          | 43527         | 1.10%           | 0.091%        |
| 27        | 11.463      | 1591          | 1594        | 1598         | rBV2     | 43826          | 46575         | 1.18%           | 0.098%        |
| 28        | 11.698      | 1630          | 1634        | 1638         | rBV4     | 29458          | 52075         | 1.32%           | 0.109%        |
| 29        | 11.739      | 1638          | 1641        | 1643         | rBV      | 93901          | 83823         | 2.12%           | 0.176%        |
| 30        | 11.774      | 1643          | 1647        | 1652         | rBV2     | 824729         | 980466        | 24.83%          | 2.058%        |
| 31        | 11.845      | 1657          | 1659        | 1662         | rVV      | 137313         | 167037        | 4.23%           | 0.351%        |
| 32        | 11.868      | 1662          | 1663        | 1668         | rVB      | 78309          | 60654         | 1.54%           | 0.127%        |
| 33        | 12.033      | 1688          | 1691        | 1692         | rBV      | 75156          | 63730         | 1.61%           | 0.134%        |
| 34        | 12.051      | 1692          | 1694        | 1701         | rVB      | 72536          | 79003         | 2.00%           | 0.166%        |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
 Data File : BF112912.D  
 Acq On : 7 Mar 2019 5:44  
 Operator : JU/SJ  
 Sample : K1705-13  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-027-SW024-022719

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-BF022719.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.180 | 1712 | 1716 | 1719 | rBV3 | 50303   | 63500   | 1.61%  | 0.133% |
| 36 | 12.286 | 1728 | 1734 | 1737 | rBV  | 78475   | 116170  | 2.94%  | 0.244% |
| 37 | 12.363 | 1745 | 1747 | 1754 | rVB2 | 66476   | 85761   | 2.17%  | 0.180% |
| 38 | 12.439 | 1757 | 1760 | 1764 | rBV  | 754450  | 744356  | 18.85% | 1.562% |
| 39 | 12.480 | 1764 | 1767 | 1775 | rVV6 | 64999   | 154006  | 3.90%  | 0.323% |
| 40 | 12.557 | 1777 | 1780 | 1793 | rVV2 | 400910  | 513157  | 13.00% | 1.077% |
| 41 | 12.668 | 1793 | 1799 | 1805 | rBV2 | 716043  | 791860  | 20.06% | 1.662% |
| 42 | 12.786 | 1817 | 1819 | 1821 | rBV  | 61500   | 64641   | 1.64%  | 0.136% |
| 43 | 12.815 | 1821 | 1824 | 1828 | rVV  | 3642025 | 3540394 | 89.68% | 7.432% |
| 44 | 12.892 | 1832 | 1837 | 1840 | rBV2 | 69986   | 111466  | 2.82%  | 0.234% |
| 45 | 12.974 | 1848 | 1851 | 1852 | rBV3 | 48490   | 44116   | 1.12%  | 0.093% |
| 46 | 12.998 | 1852 | 1855 | 1859 | rVB  | 106613  | 112411  | 2.85%  | 0.236% |
| 47 | 13.039 | 1859 | 1862 | 1864 | rBV3 | 57940   | 69457   | 1.76%  | 0.146% |
| 48 | 13.063 | 1864 | 1866 | 1868 | rVB2 | 70653   | 54876   | 1.39%  | 0.115% |
| 49 | 13.098 | 1869 | 1872 | 1876 | rBV  | 119727  | 112875  | 2.86%  | 0.237% |
| 50 | 13.221 | 1891 | 1893 | 1897 | rVB2 | 59388   | 52050   | 1.32%  | 0.109% |
| 51 | 13.304 | 1905 | 1907 | 1910 | rVB3 | 67400   | 57948   | 1.47%  | 0.122% |
| 52 | 13.498 | 1937 | 1940 | 1946 | rBV  | 94545   | 137206  | 3.48%  | 0.288% |
| 53 | 13.610 | 1955 | 1959 | 1962 | rBV2 | 76975   | 131508  | 3.33%  | 0.276% |
| 54 | 13.639 | 1962 | 1964 | 1966 | rVV  | 78938   | 72742   | 1.84%  | 0.153% |
| 55 | 13.662 | 1966 | 1968 | 1973 | rVV2 | 58119   | 90907   | 2.30%  | 0.191% |
| 56 | 13.727 | 1973 | 1979 | 1985 | rVV2 | 511935  | 701595  | 17.77% | 1.473% |
| 57 | 13.862 | 1997 | 2002 | 2004 | rBV2 | 1890379 | 2080407 | 52.70% | 4.367% |
| 58 | 13.886 | 2004 | 2006 | 2009 | rVB  | 376323  | 287706  | 7.29%  | 0.604% |
| 59 | 14.045 | 2030 | 2033 | 2036 | rBV2 | 269630  | 228296  | 5.78%  | 0.479% |
| 60 | 14.351 | 2081 | 2085 | 2090 | rBV2 | 421754  | 615689  | 15.60% | 1.292% |
| 61 | 14.645 | 2132 | 2135 | 2141 | rBV  | 411673  | 421704  | 10.68% | 0.885% |
| 62 | 14.774 | 2154 | 2157 | 2162 | rVB  | 338856  | 350905  | 8.89%  | 0.737% |
| 63 | 14.868 | 2170 | 2173 | 2181 | rVB  | 234001  | 467747  | 11.85% | 0.982% |
| 64 | 14.962 | 2185 | 2189 | 2191 | rVV  | 514472  | 544611  | 13.79% | 1.143% |
| 65 | 14.986 | 2191 | 2193 | 2198 | rVB  | 231082  | 288178  | 7.30%  | 0.605% |
| 66 | 15.151 | 2218 | 2221 | 2227 | rVB  | 212320  | 229833  | 5.82%  | 0.482% |
| 67 | 15.204 | 2228 | 2230 | 2236 | rVV  | 148226  | 222128  | 5.63%  | 0.466% |
| 68 | 15.268 | 2237 | 2241 | 2244 | rVV  | 927120  | 1124916 | 28.49% | 2.361% |
| 69 | 15.315 | 2246 | 2249 | 2253 | rVB  | 367012  | 452745  | 11.47% | 0.950% |
| 70 | 15.721 | 2314 | 2318 | 2322 | rBV  | 354704  | 516368  | 13.08% | 1.084% |

Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

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-BF022719.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

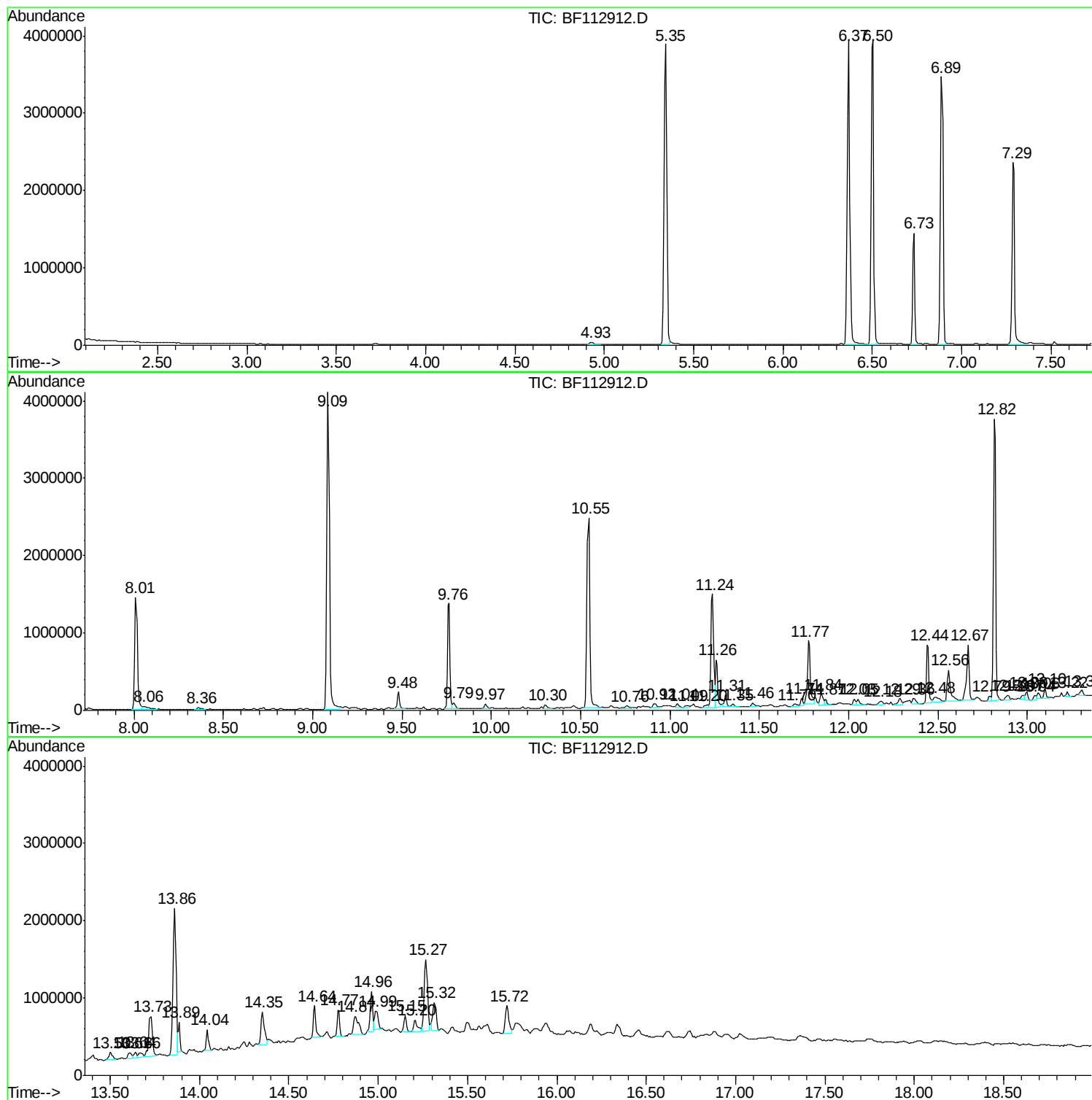
Sum of corrected areas: 47639848

Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.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\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

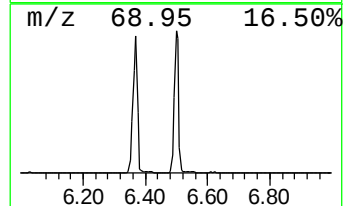
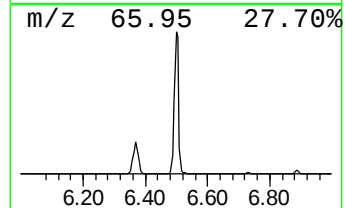
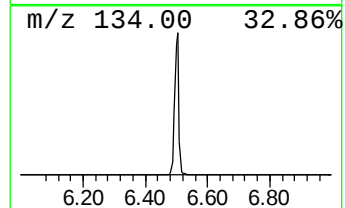
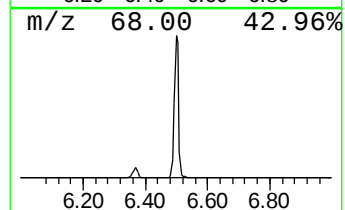
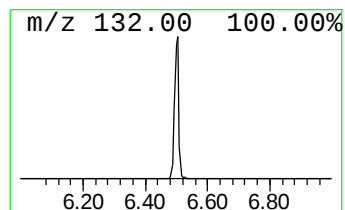
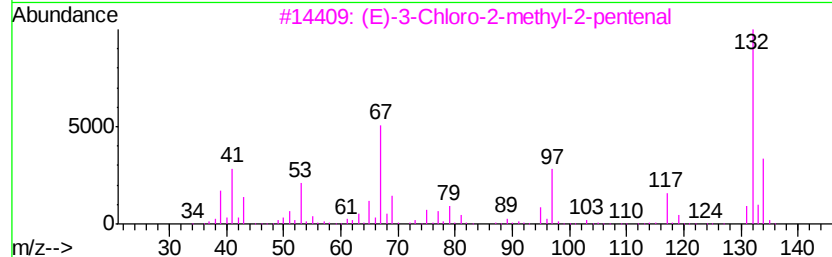
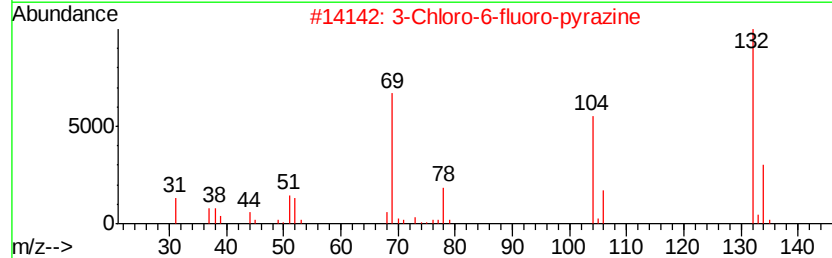
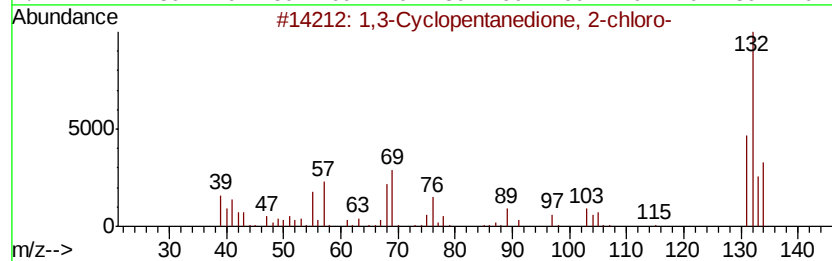
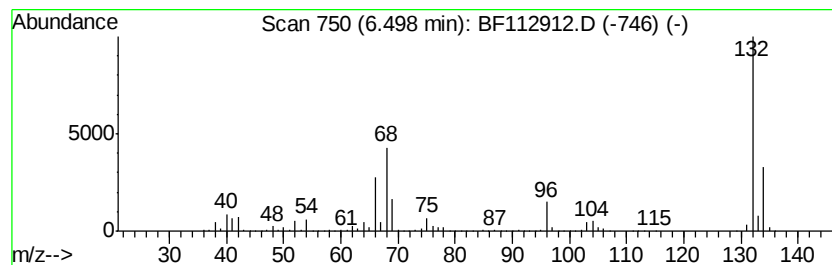
Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 63.38 ng | 3939670 | 1,4-Dichlorobenzene-d4 | 6.73 |

| Hit# | of | 5 | Tentative ID                       | MW  | MolForm   | CAS#         | Qual |
|------|----|---|------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 1,3-Cyclopentanedione, 2-chloro-   | 132 | C5H5ClO2  | 014203-19-1  | 47   |
| 2    |    |   | 3-Chloro-6-fluoro-pyrazine         | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 3    |    |   | (E)-3-Chloro-2-methyl-2-pentenal   | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 4    |    |   | Tranylcypromine-propionyl          | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    |   | N-(3,4-Methylenedioxyphenylisop... | 267 | C17H17NO2 | 1000378-96-6 | 10   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

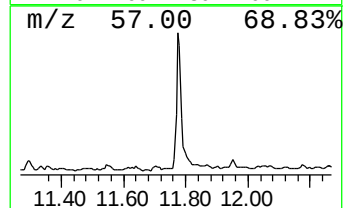
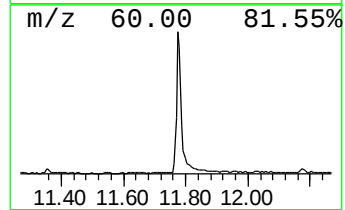
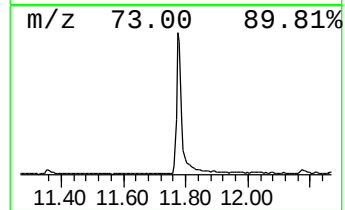
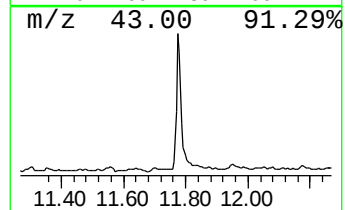
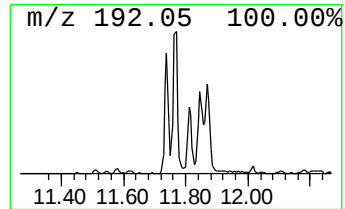
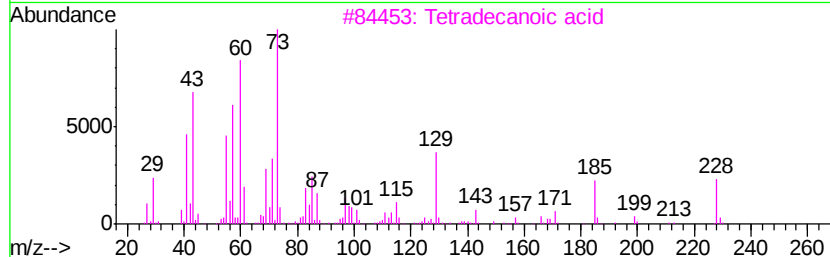
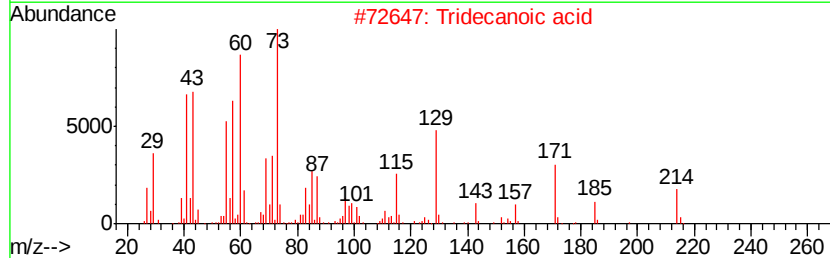
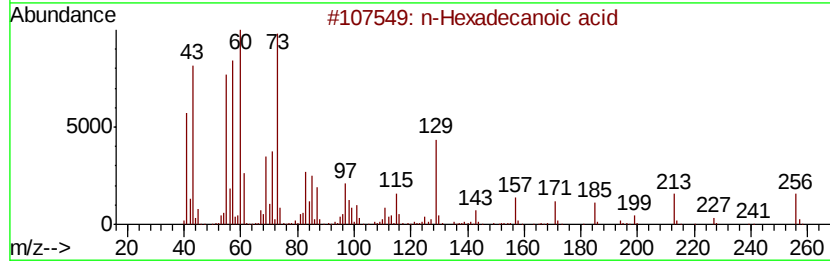
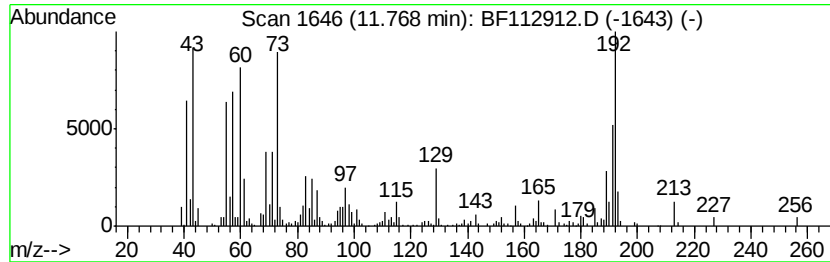
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 3

| R.T.    | EstConc  | Area                               | Relative to ISTD |          | R.T.         |      |
|---------|----------|------------------------------------|------------------|----------|--------------|------|
| 11.77   | 13.35 ng | 980466                             | Phenanthrene-d10 |          | 11.24        |      |
| Hit# of | 5        | Tentative ID                       | MW               | MolForm  | CAS#         | Qual |
| 1       |          | n-Hexadecanoic acid                | 256              | C16H32O2 | 000057-10-3  | 99   |
| 2       |          | Tridecanoic acid                   | 214              | C13H26O2 | 000638-53-9  | 95   |
| 3       |          | Tetradecanoic acid                 | 228              | C14H28O2 | 000544-63-8  | 94   |
| 4       |          | Pentadecanoic acid                 | 242              | C15H30O2 | 001002-84-2  | 93   |
| 5       |          | Oxalic acid, allyl hexadecyl ester | 354              | C21H38O4 | 1000309-24-4 | 20   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

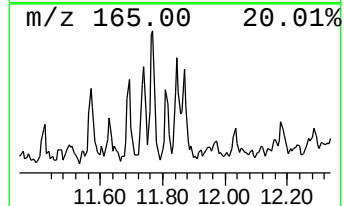
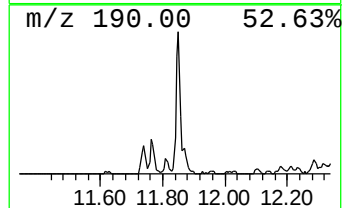
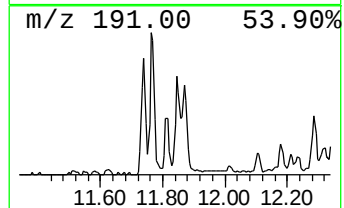
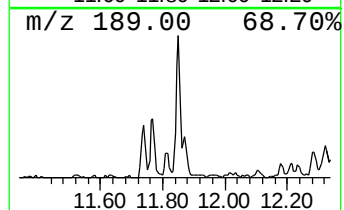
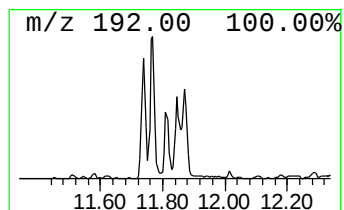
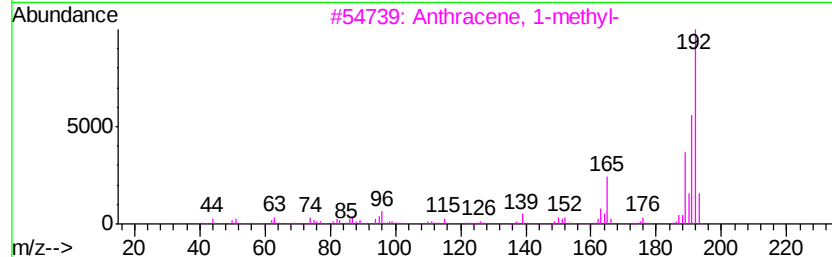
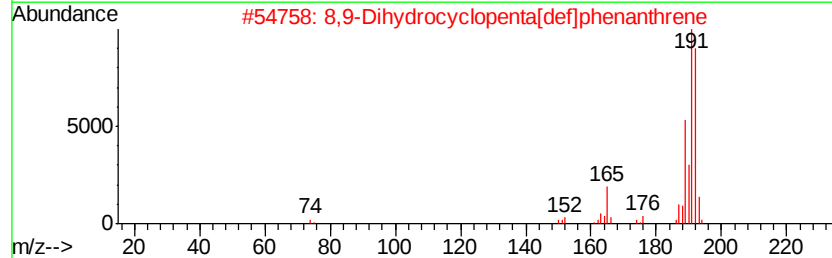
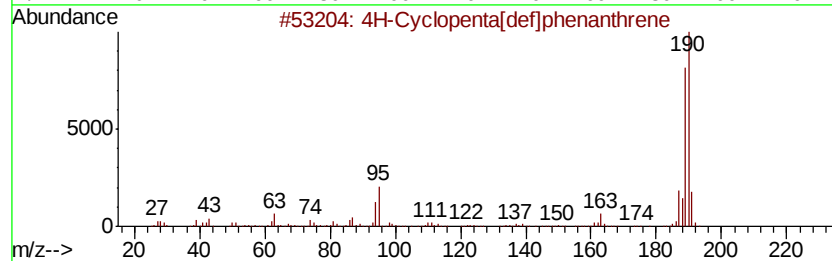
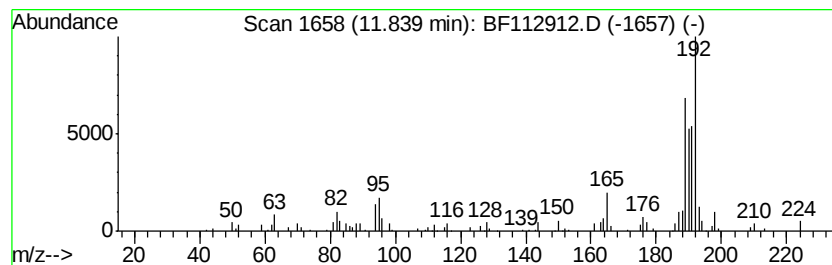
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 4H-Cyclopenta[def]phenanthrene Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD                    |     | R.T.    |             |      |
|-------|---------|--------|-------------------------------------|-----|---------|-------------|------|
| 11.84 | 2.27 ng | 167037 | Phenanthrene-d10                    |     | 11.24   |             |      |
| Hit#  | of      | 5      | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10  | 000203-64-5 | 60   |
| 2     |         |        | 8,9-Dihydrocyclopenta[def]phenan... | 192 | C15H12  | 027410-55-5 | 47   |
| 3     |         |        | Anthracene, 1-methyl-               | 192 | C15H12  | 000610-48-0 | 42   |
| 4     |         |        | Anthracene, 9-methyl-               | 192 | C15H12  | 000779-02-2 | 38   |
| 5     |         |        | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 38   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

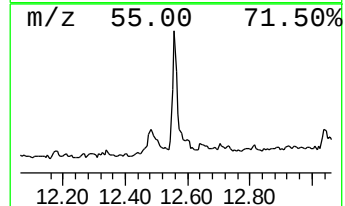
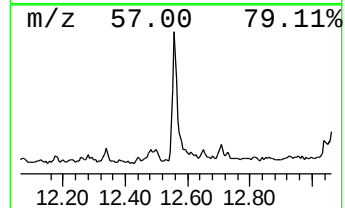
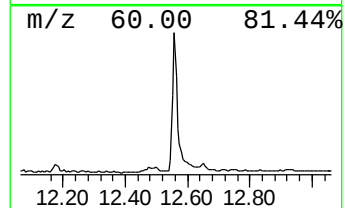
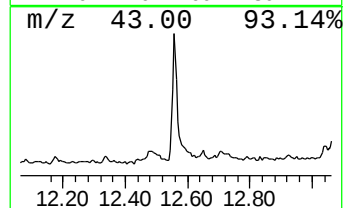
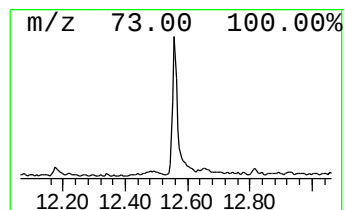
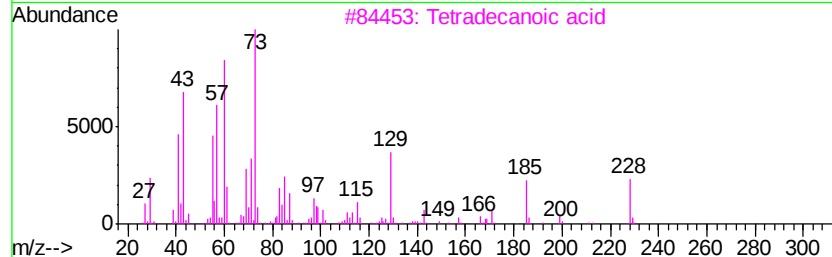
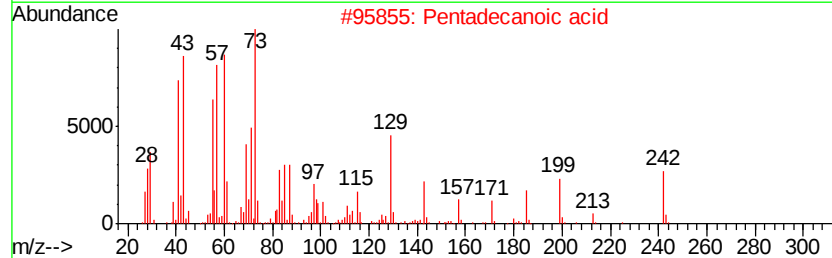
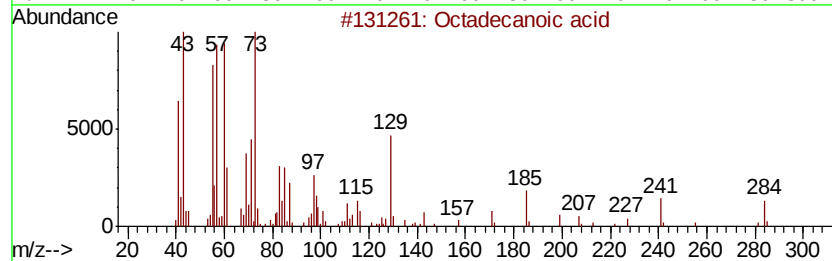
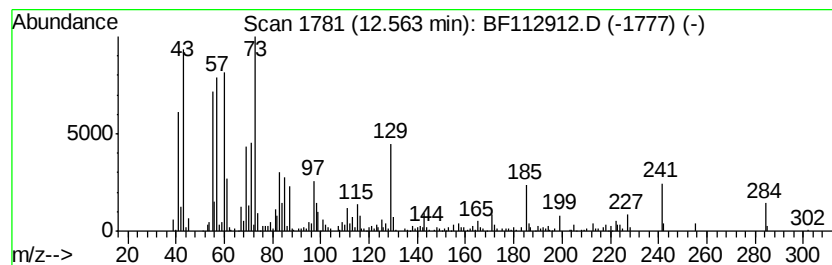
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Octadecanoic acid Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.56 | 4.93 ng | 513157 | Chrysene-d12     | 13.86 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|---------|---|--------------------------------------|-----|----------|-------------|------|
| 1       |   | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2       |   | Pentadecanoic acid                   | 242 | C15H30O2 | 001002-84-2 | 93   |
| 3       |   | Tetradecanoic acid                   | 228 | C14H28O2 | 000544-63-8 | 90   |
| 4       |   | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 87   |
| 5       |   | Tridecanoic acid                     | 214 | C13H26O2 | 000638-53-9 | 68   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

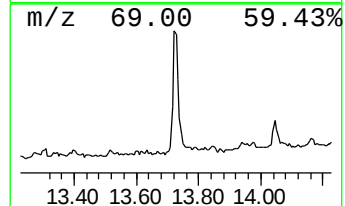
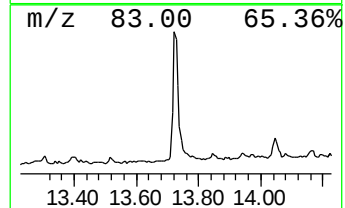
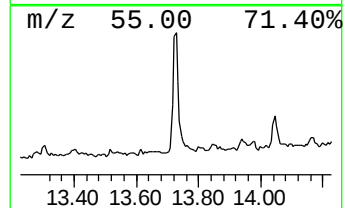
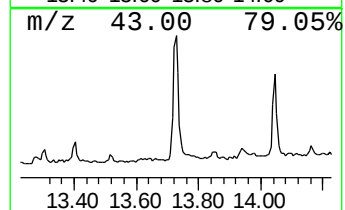
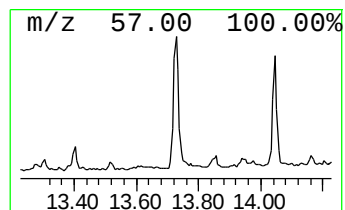
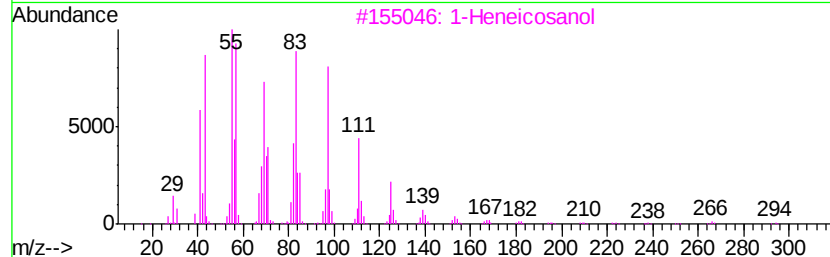
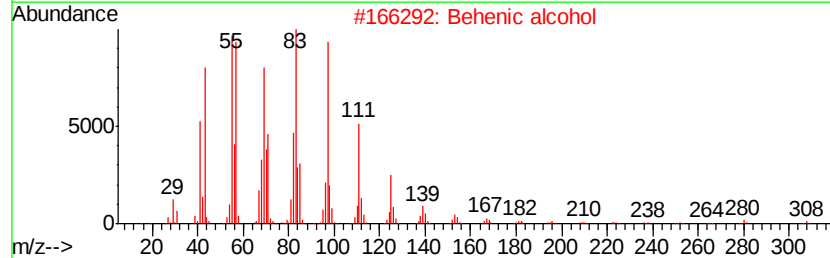
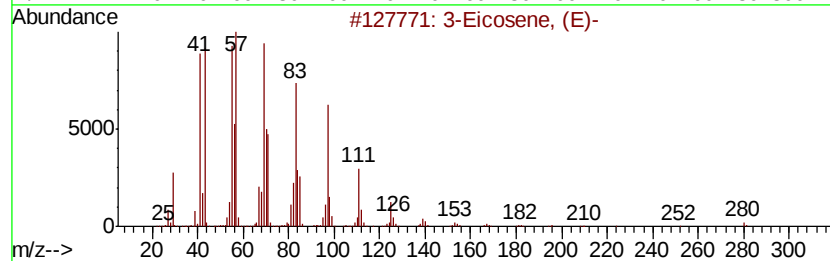
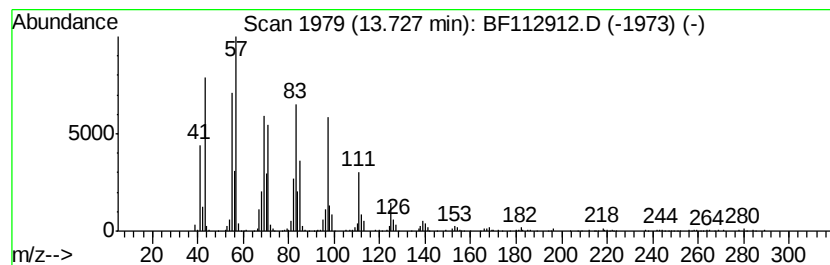
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 6 3-Eicosene, (E)- Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 13.73     | 6.74 ng                             | 701595 | Chrysene-d12     | 13.86        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 3-Eicosene, (E)-                    | 280    | C20H40           | 074685-33-9  | 95   |
| 2         | Behenic alcohol                     | 326    | C22H46O          | 000661-19-8  | 93   |
| 3         | 1-Heneicosanol                      | 312    | C21H44O          | 015594-90-8  | 93   |
| 4         | Nonadecyl pentafluoropropionate     | 430    | C22H39F5O2       | 1000351-88-8 | 91   |
| 5         | Pentafluoropropionic acid, hepta... | 402    | C20H35F5O2       | 959218-78-1  | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

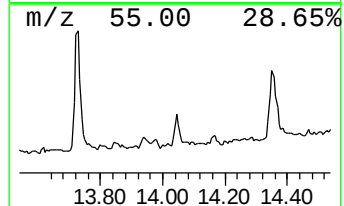
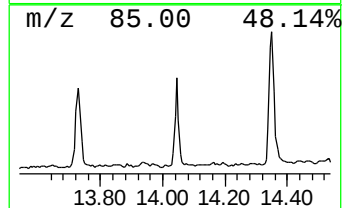
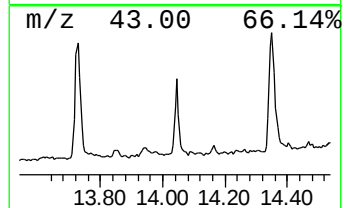
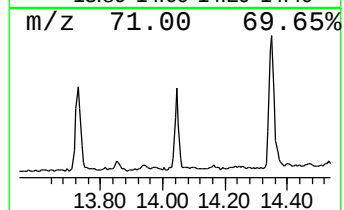
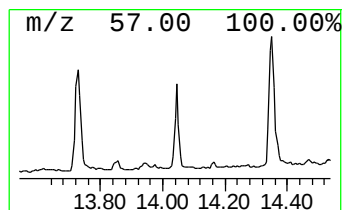
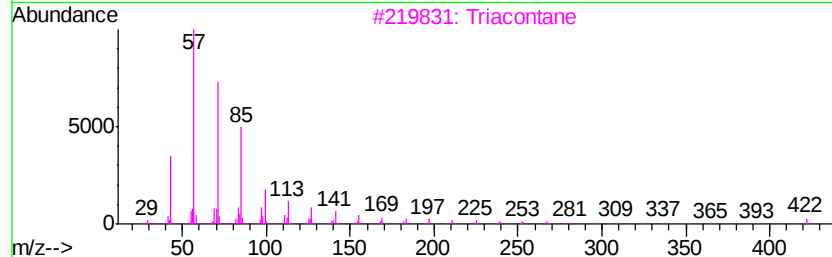
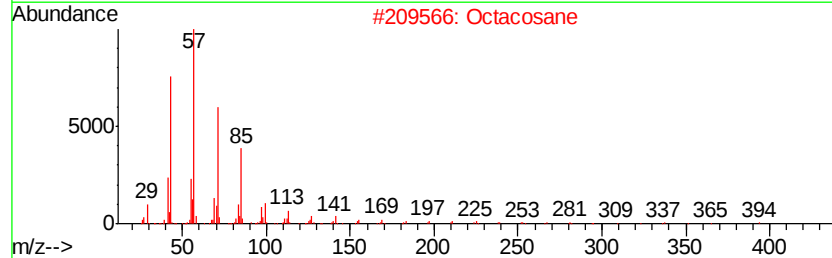
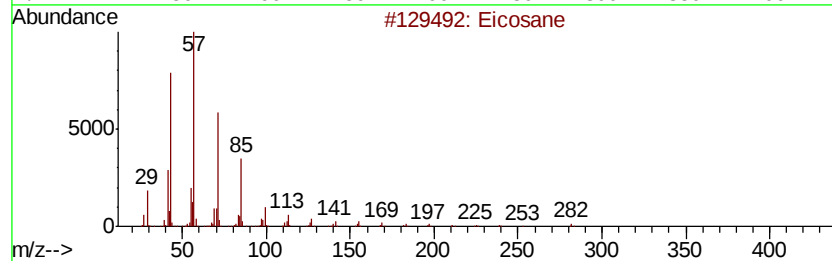
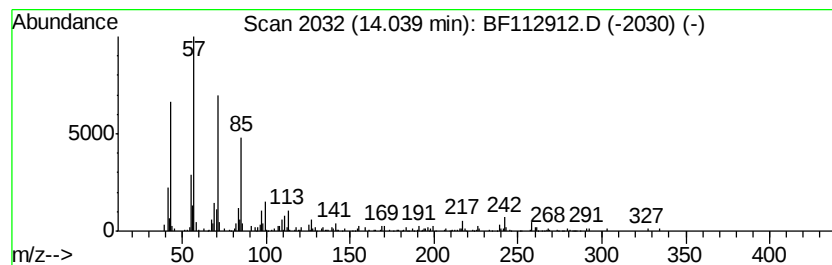
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Eicosane Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.04 | 2.19 ng | 228296 | Chrysene-d12     | 13.86 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Eicosane              | 282 | C20H42  | 000112-95-8 | 83   |
| 2    |    | Octacosane            | 394 | C28H58  | 000630-02-4 | 83   |
| 3    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 83   |
| 4    |    | Heptadecane, 9-octyl- | 352 | C25H52  | 007225-64-1 | 83   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 76   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

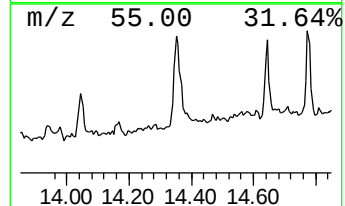
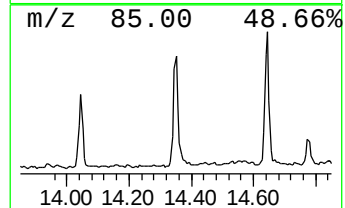
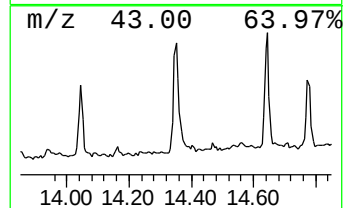
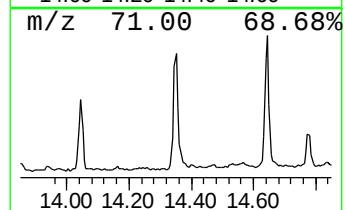
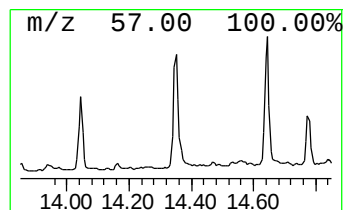
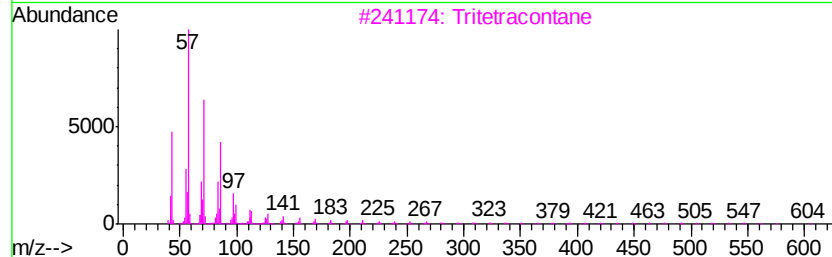
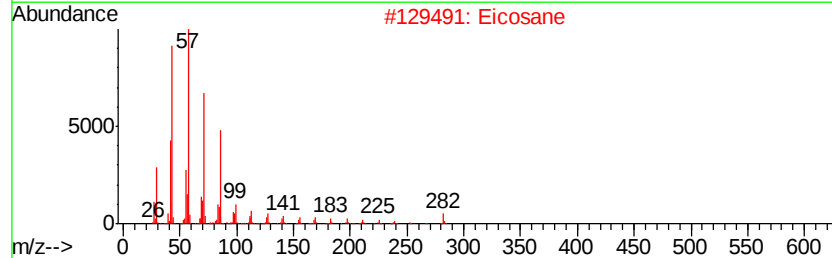
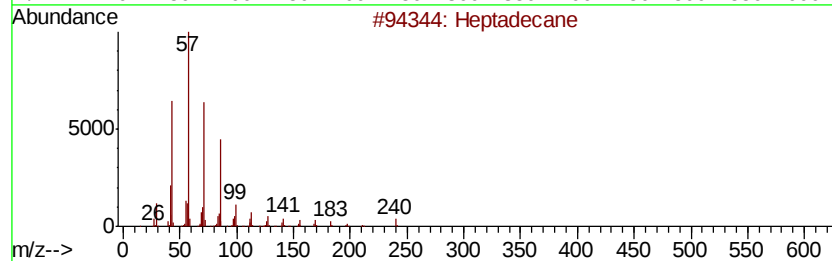
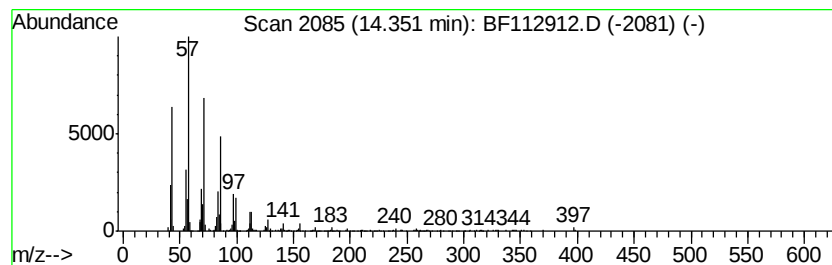
Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 8 Heptadecane Concentration Rank 9

| R.T.    | EstConc                | Area         | Relative to ISTD | R.T.      |
|---------|------------------------|--------------|------------------|-----------|
| 14.35   | 5.92 ng                | 615689       | Chrysene-d12     | 13.86     |
| Hit# of | 5                      | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | Heptadecane            | 240 C17H36   | 000629-78-7      | 94        |
| 2       | Eicosane               | 282 C20H42   | 000112-95-8      | 93        |
| 3       | Tritetracontane        | 605 C43H88   | 007098-21-7      | 91        |
| 4       | Heptacosane, 1-chloro- | 414 C27H55Cl | 062016-79-9      | 91        |
| 5       | Tetratetracontane      | 619 C44H90   | 007098-22-8      | 91        |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

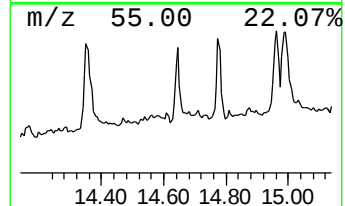
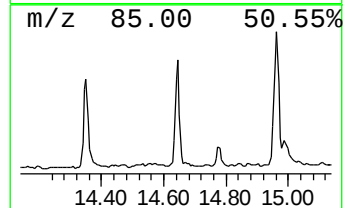
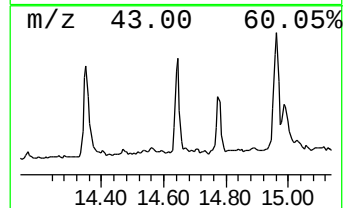
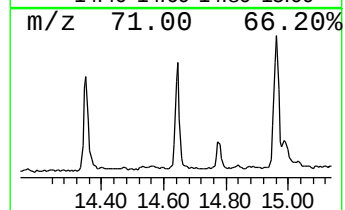
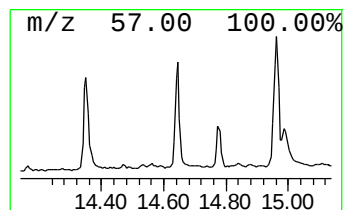
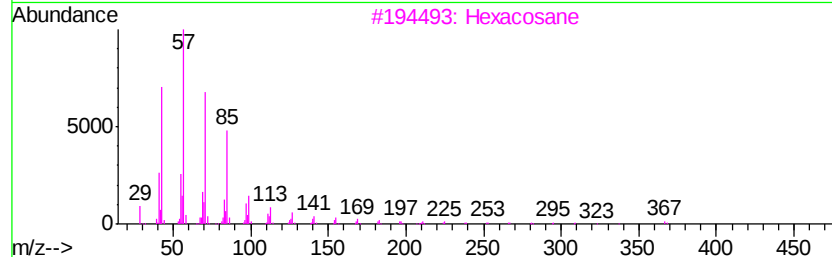
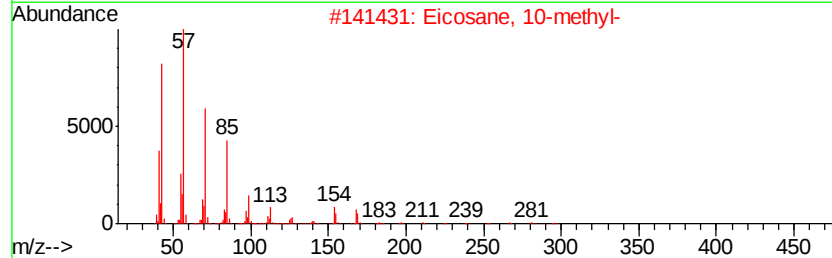
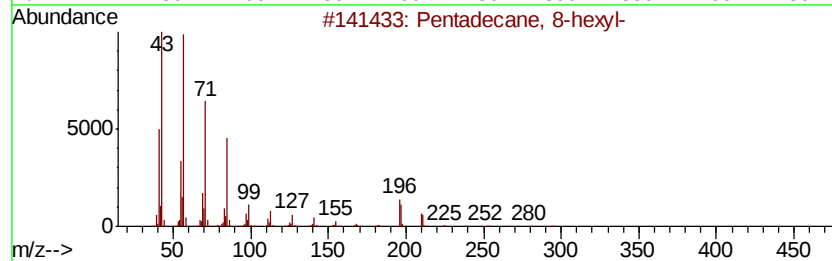
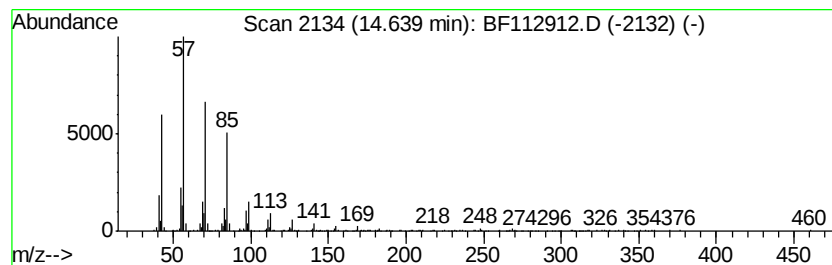
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Pentadecane, 8-hexyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.64 | 7.50 ng | 421704 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 8-hexyl- | 296 | C21H44  | 013475-75-7 | 94   |
| 2    |    | Eicosane, 10-methyl-  | 296 | C21H44  | 054833-23-7 | 93   |
| 3    |    | Hexacosane            | 366 | C26H54  | 000630-01-3 | 91   |
| 4    |    | Docosane, 11-butyl-   | 366 | C26H54  | 013475-76-8 | 91   |
| 5    |    | Heneicosane           | 296 | C21H44  | 000629-94-7 | 91   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

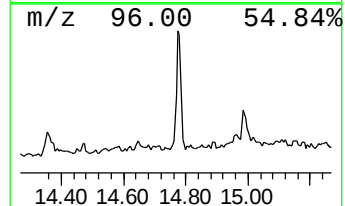
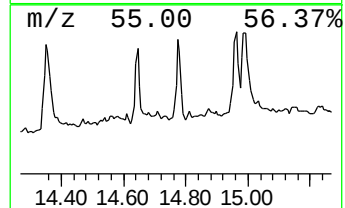
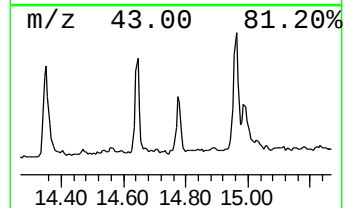
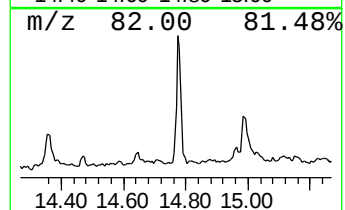
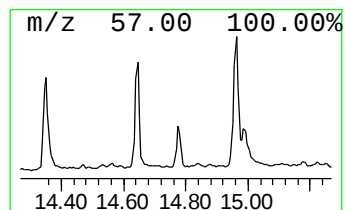
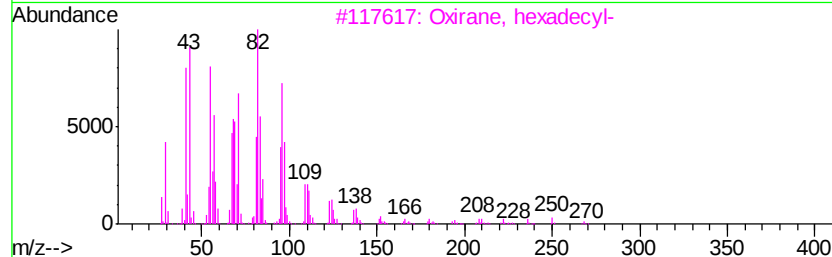
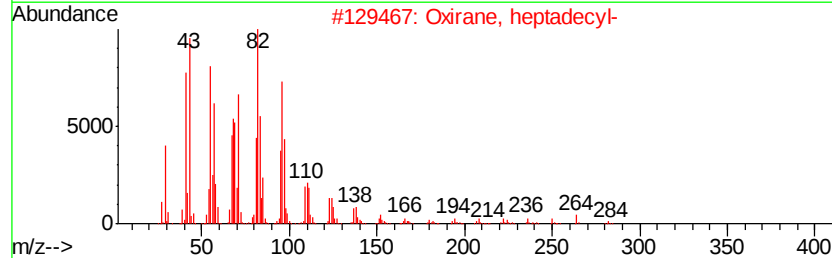
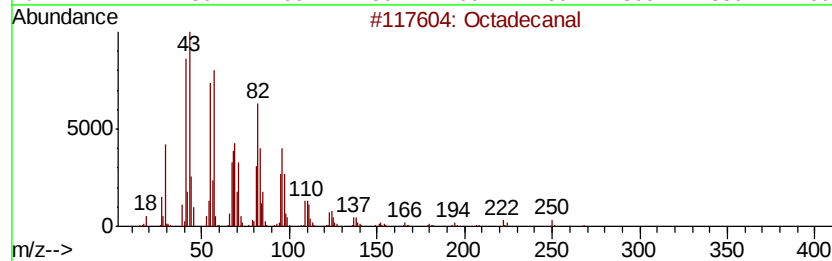
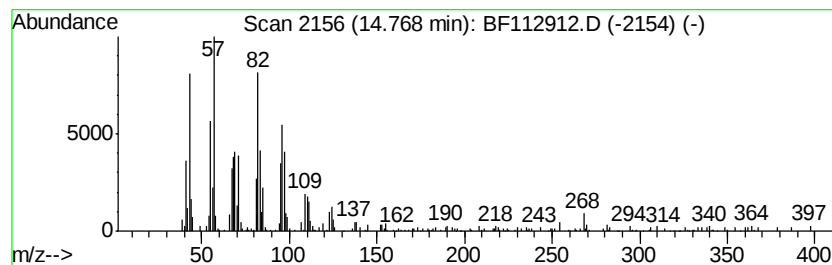
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Octadecanal Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.77 | 6.24 ng | 350905 | Perylene-d12     | 15.27 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Octadecanal          | 268 | C18H36O | 000638-66-4 | 91   |
| 2    |    |   | Oxirane, heptadecyl- | 282 | C19H38O | 067860-04-2 | 91   |
| 3    |    |   | Oxirane, hexadecyl-  | 268 | C18H36O | 007390-81-0 | 91   |
| 4    |    |   | Tetracosanal         | 352 | C24H48O | 057866-08-7 | 91   |
| 5    |    |   | Tetradecanal         | 212 | C14H28O | 000124-25-4 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

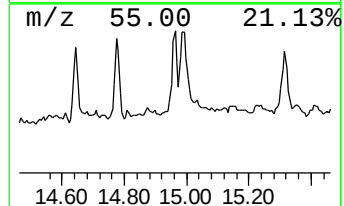
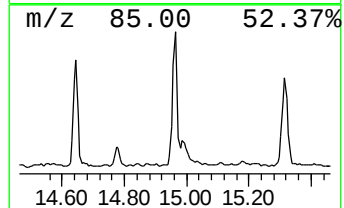
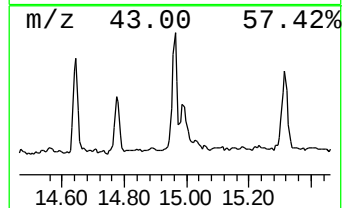
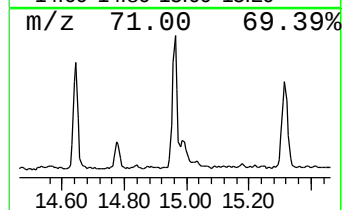
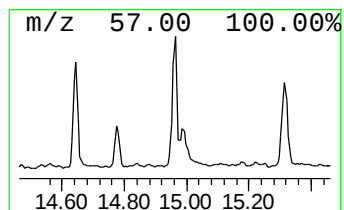
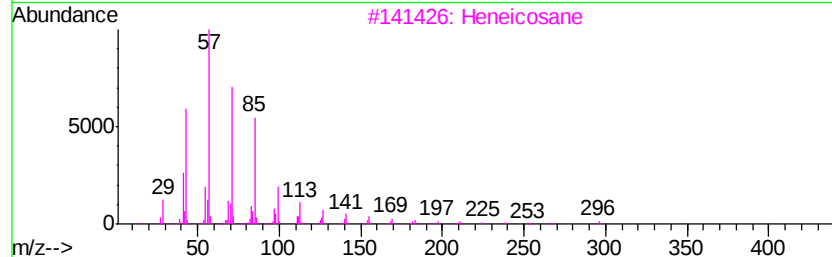
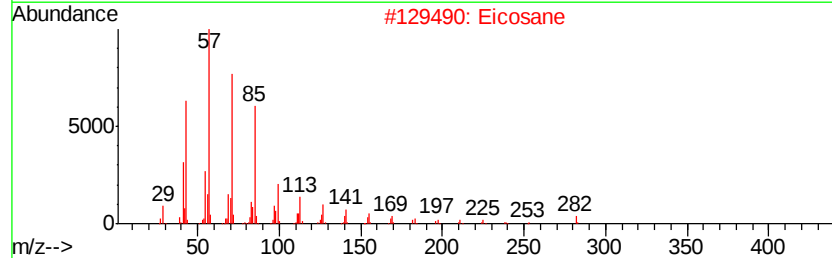
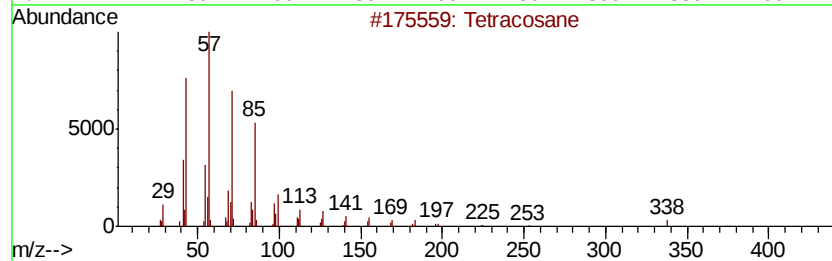
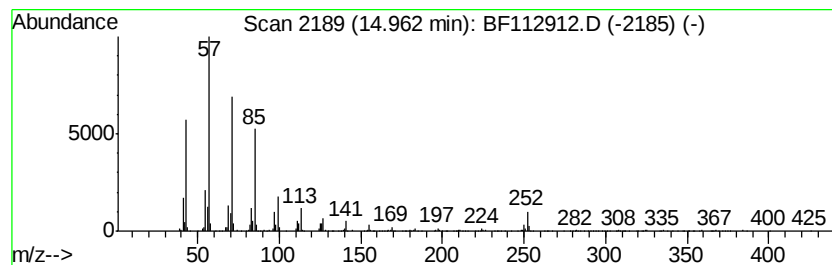
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 Tetracosane Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.96 | 9.68 ng | 544611 | Perylene-d12     | 15.27 |

| Hit# | of | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------|-----|---------|-------------|------|
| 1    |    |   | Tetracosane  | 338 | C24H50  | 000646-31-1 | 93   |
| 2    |    |   | Eicosane     | 282 | C20H42  | 000112-95-8 | 93   |
| 3    |    |   | Heneicosane  | 296 | C21H44  | 000629-94-7 | 87   |
| 4    |    |   | Heptadecane  | 240 | C17H36  | 000629-78-7 | 83   |
| 5    |    |   | Octacosane   | 394 | C28H58  | 000630-02-4 | 83   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

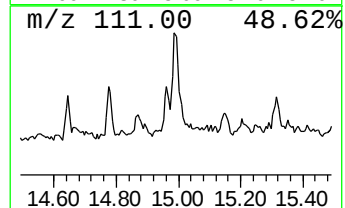
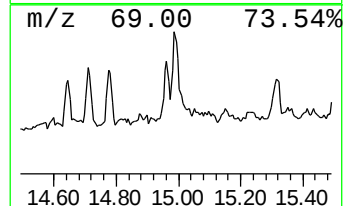
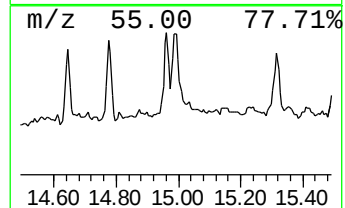
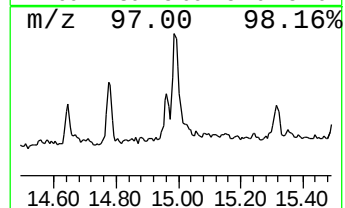
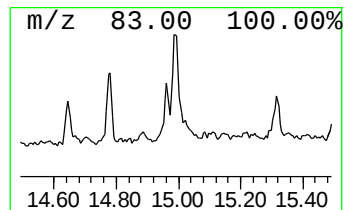
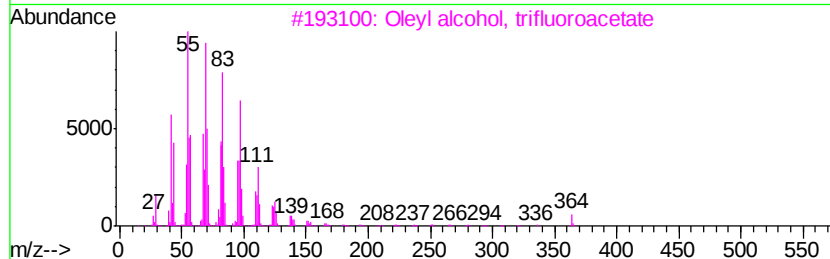
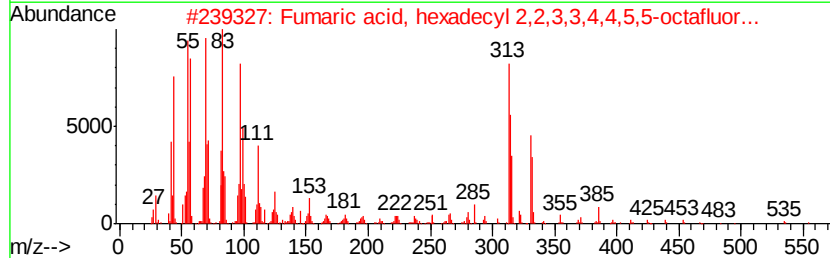
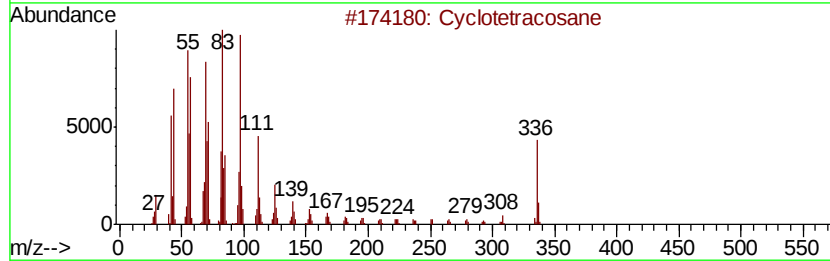
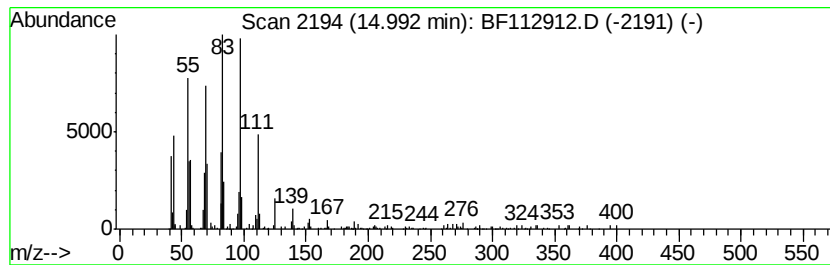
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Cyclotetracosane Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 14.99 | 5.12 ng | 288178 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclotetracosane                    | 336 | C24H48     | 000297-03-0  | 91   |
| 2    |    | Fumaric acid, hexadecyl 2,2,3,3,... | 554 | C25H38F8O4 | 1000348-79-2 | 80   |
| 3    |    | Oleyl alcohol, trifluoroacetate     | 364 | C20H35F3O2 | 1000352-68-4 | 64   |
| 4    |    | Fumaric acid, octadecyl 2,2,3,3,... | 582 | C27H42F8O4 | 1000348-79-4 | 64   |
| 5    |    | Cyclooctane, 1,2-diethyl-           | 168 | C12H24     | 023609-46-3  | 58   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

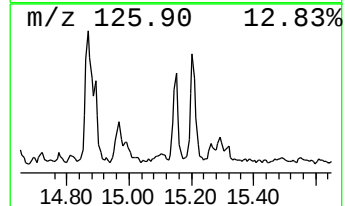
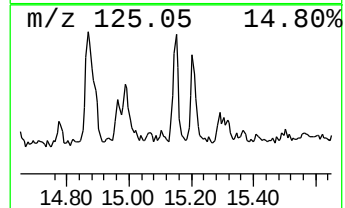
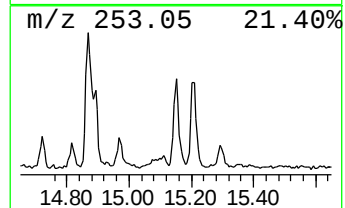
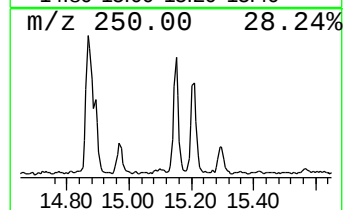
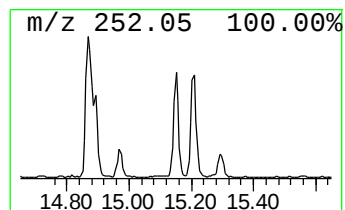
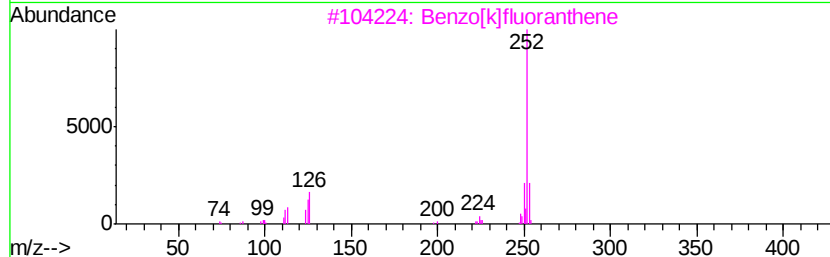
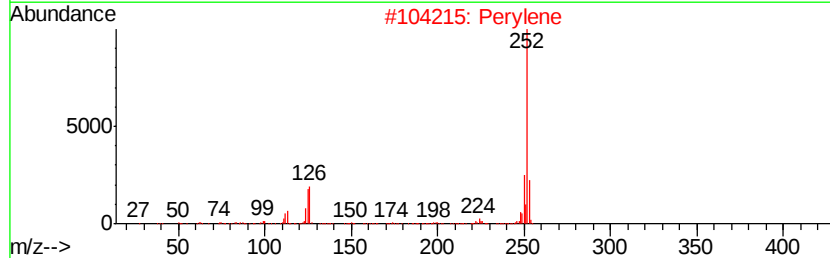
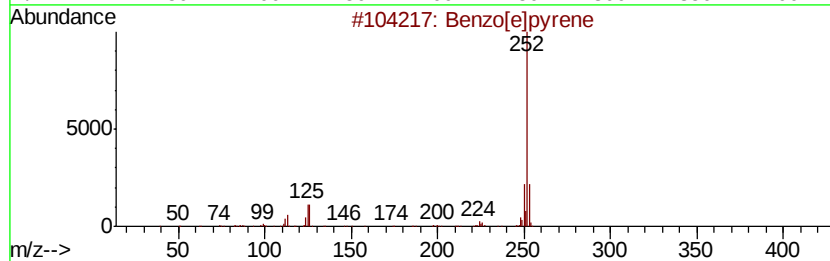
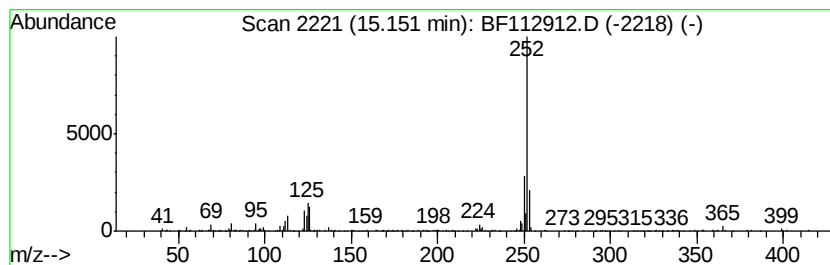
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 Benzo[e]pyrene Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.15 | 4.09 ng | 229833 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 93   |
| 3    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 5    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA F\DATA\BF030619\  
Data File : BF112912.D  
Acq On : 7 Mar 2019 5:44  
Operator : JU/SJ  
Sample : K1705-13  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA F\METHODS\8270-BF022719.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

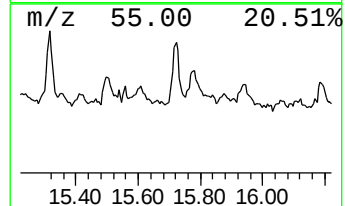
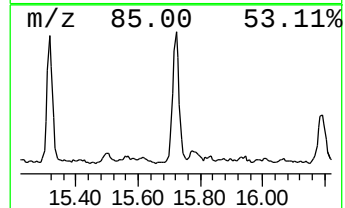
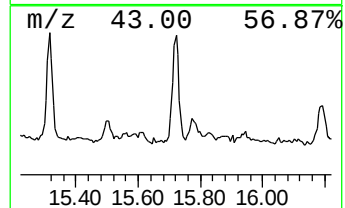
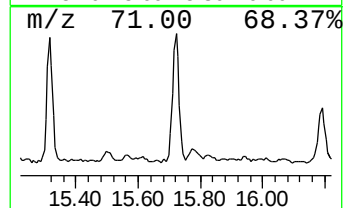
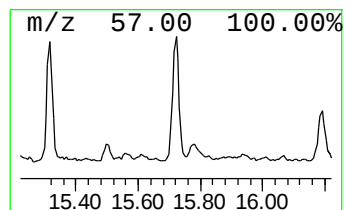
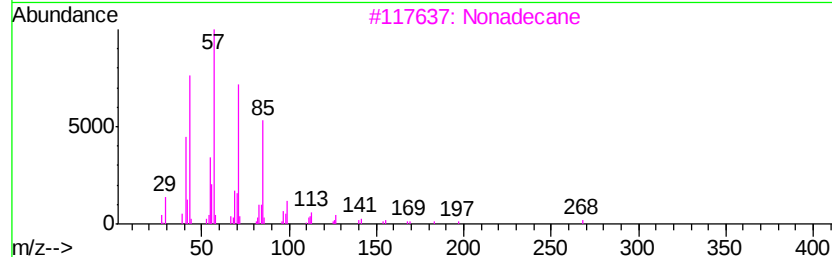
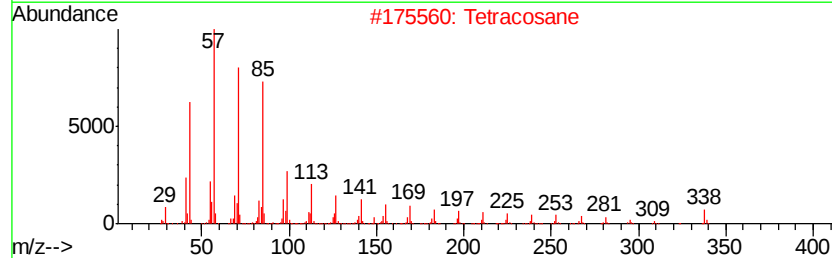
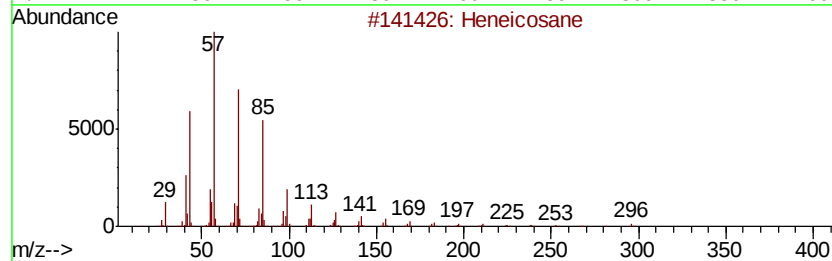
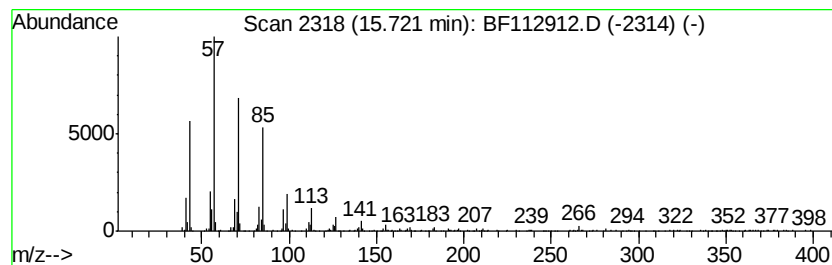
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 Heneicosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.72 | 9.18 ng | 516368 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane  | 296 | C21H44  | 000629-94-7 | 90   |
| 2    |    | Tetracosane  | 338 | C24H50  | 000646-31-1 | 90   |
| 3    |    | Nonadecane   | 268 | C19H40  | 000629-92-5 | 90   |
| 4    |    | Octacosane   | 394 | C28H58  | 000630-02-4 | 87   |
| 5    |    | Eicosane     | 282 | C20H42  | 000112-95-8 | 86   |



Data Path : Z:\SVOASRV\HPCHEM1\BNA\_F\DATA\BF030619\  
 Data File : BF112912.D  
 Acq On : 7 Mar 2019 5:44  
 Operator : JU/SJ  
 Sample : K1705-13  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EXT-027-SW024-022719

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_F\METHODS\8270-BF022719.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 |
| unknown6.50          | 6.50  | 63.4    | ng    | 3939670  | 1                     | 6.73  | 1243280 | 20.0 |
| n-Hexadecanoic acid  | 11.77 | 13.4    | ng    | 980466   | 4                     | 11.24 | 1469110 | 20.0 |
| 4H-Cyclopenta[def... | 11.84 | 2.3     | ng    | 167037   | 4                     | 11.24 | 1469110 | 20.0 |
| Octadecanoic acid    | 12.56 | 4.9     | ng    | 513157   | 5                     | 13.86 | 2080410 | 20.0 |
| 3-Eicosene, (E)-     | 13.73 | 6.7     | ng    | 701595   | 5                     | 13.86 | 2080410 | 20.0 |
| Eicosane             | 14.04 | 2.2     | ng    | 228296   | 5                     | 13.86 | 2080410 | 20.0 |
| Heptadecane          | 14.35 | 5.9     | ng    | 615689   | 5                     | 13.86 | 2080410 | 20.0 |
| Pentadecane, 8-he... | 14.64 | 7.5     | ng    | 421704   | 6                     | 15.27 | 1124920 | 20.0 |
| Octadecanal          | 14.77 | 6.2     | ng    | 350905   | 6                     | 15.27 | 1124920 | 20.0 |
| Tetracosane          | 14.96 | 9.7     | ng    | 544611   | 6                     | 15.27 | 1124920 | 20.0 |
| Cyclotetracosane     | 14.99 | 5.1     | ng    | 288178   | 6                     | 15.27 | 1124920 | 20.0 |
| Benzo[e]pyrene       | 15.15 | 4.1     | ng    | 229833   | 6                     | 15.27 | 1124920 | 20.0 |
| Heneicosane          | 15.72 | 9.2     | ng    | 516368   | 6                     | 15.27 | 1124920 | 20.0 |