

Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
 Data File : BF096290.D  
 Acq On : 29 Jun 2017 14:30  
 Operator : SJ/MA  
 Sample : I3949-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-H1-(0-8)

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:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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         | 2.157       | 9             | 12          | 19           | rVB4     | 25279          | 43825         | 1.04%           | 0.120%        |
| 2         | 3.816       | 288           | 294         | 298          | rBV      | 54342          | 78576         | 1.87%           | 0.214%        |
| 3         | 4.975       | 486           | 491         | 499          | rVB      | 559272         | 762454        | 18.13%          | 2.080%        |
| 4         | 5.393       | 557           | 562         | 565          | rVB      | 4055157        | 4095798       | 97.40%          | 11.171%       |
| 5         | 5.798       | 626           | 631         | 635          | rBV4     | 40071          | 50103         | 1.19%           | 0.137%        |
| 6         | 6.034       | 666           | 671         | 673          | rBV2     | 33321          | 44048         | 1.05%           | 0.120%        |
| 7         | 6.222       | 698           | 703         | 706          | rBV3     | 31122          | 48786         | 1.16%           | 0.133%        |
| 8         | 6.316       | 715           | 719         | 724          | rVB3     | 69414          | 79564         | 1.89%           | 0.217%        |
| 9         | 6.404       | 728           | 734         | 737          | rBV      | 3930141        | 4205012       | 100.00%         | 11.469%       |
| 10        | 6.540       | 752           | 757         | 761          | rBV      | 3738721        | 3835526       | 91.21%          | 10.461%       |
| 11        | 6.769       | 793           | 796         | 800          | rBV      | 1186804        | 1069096       | 25.42%          | 2.916%        |
| 12        | 6.798       | 800           | 801         | 805          | rVB      | 70350          | 50480         | 1.20%           | 0.138%        |
| 13        | 6.840       | 805           | 808         | 811          | rBV3     | 40629          | 53838         | 1.28%           | 0.147%        |
| 14        | 6.928       | 819           | 823         | 827          | rVB      | 2973507        | 2684582       | 63.84%          | 7.322%        |
| 15        | 7.098       | 848           | 852         | 854          | rBV2     | 34713          | 44523         | 1.06%           | 0.121%        |
| 16        | 7.175       | 860           | 865         | 868          | rBV3     | 79240          | 79124         | 1.88%           | 0.216%        |
| 17        | 7.204       | 868           | 870         | 873          | rVB      | 52783          | 43818         | 1.04%           | 0.120%        |
| 18        | 7.328       | 882           | 891         | 894          | rBV      | 2491390        | 2553247       | 60.72%          | 6.964%        |
| 19        | 7.381       | 898           | 900         | 903          | rVB      | 62425          | 52509         | 1.25%           | 0.143%        |
| 20        | 7.422       | 903           | 907         | 911          | rVB4     | 68239          | 85508         | 2.03%           | 0.233%        |
| 21        | 7.487       | 911           | 918         | 923          | rBV      | 40693          | 77516         | 1.84%           | 0.211%        |
| 22        | 7.751       | 959           | 963         | 966          | rBV2     | 86295          | 98694         | 2.35%           | 0.269%        |
| 23        | 8.051       | 1010          | 1014        | 1017         | rBV      | 1652123        | 1484083       | 35.29%          | 4.048%        |
| 24        | 8.075       | 1017          | 1018        | 1022         | rVV      | 111114         | 68537         | 1.63%           | 0.187%        |
| 25        | 8.128       | 1025          | 1027        | 1030         | rVB      | 89221          | 72489         | 1.72%           | 0.198%        |
| 26        | 8.357       | 1060          | 1066        | 1068         | rBV3     | 41438          | 50953         | 1.21%           | 0.139%        |
| 27        | 8.492       | 1084          | 1089        | 1092         | rBV      | 140241         | 145674        | 3.46%           | 0.397%        |
| 28        | 8.657       | 1114          | 1117        | 1120         | rBV      | 107514         | 85496         | 2.03%           | 0.233%        |
| 29        | 8.763       | 1130          | 1135        | 1139         | rVB2     | 129084         | 130853        | 3.11%           | 0.357%        |
| 30        | 8.863       | 1149          | 1152        | 1156         | rVB      | 54096          | 44531         | 1.06%           | 0.121%        |
| 31        | 9.086       | 1187          | 1190        | 1193         | rBV      | 71303          | 57375         | 1.36%           | 0.156%        |
| 32        | 9.128       | 1193          | 1197        | 1200         | rVB      | 3079627        | 2789600       | 66.34%          | 7.609%        |
| 33        | 9.222       | 1210          | 1213        | 1217         | rBV2     | 163945         | 145649        | 3.46%           | 0.397%        |
| 34        | 9.386       | 1239          | 1241        | 1248         | rVB2     | 59575          | 78481         | 1.87%           | 0.214%        |

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 Integrator: RTE  
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 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:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 9.463  | 1252 | 1254 | 1257 | rVV2 | 56768   | 59573   | 1.42%  | 0.162% |
| 36 | 9.522  | 1261 | 1264 | 1266 | rVV  | 646811  | 532793  | 12.67% | 1.453% |
| 37 | 9.545  | 1266 | 1268 | 1270 | rVB  | 70827   | 52006   | 1.24%  | 0.142% |
| 38 | 9.751  | 1300 | 1303 | 1307 | rVB  | 181451  | 146712  | 3.49%  | 0.400% |
| 39 | 9.804  | 1307 | 1312 | 1316 | rBV  | 1366202 | 1273677 | 30.29% | 3.474% |
| 40 | 10.010 | 1344 | 1347 | 1350 | rVB  | 109578  | 98929   | 2.35%  | 0.270% |
| 41 | 10.045 | 1350 | 1353 | 1355 | rBV2 | 47266   | 47826   | 1.14%  | 0.130% |
| 42 | 10.075 | 1355 | 1358 | 1362 | rVB4 | 42293   | 44618   | 1.06%  | 0.122% |
| 43 | 10.122 | 1362 | 1366 | 1369 | rBV2 | 39690   | 46737   | 1.11%  | 0.127% |
| 44 | 10.251 | 1385 | 1388 | 1390 | rVB  | 160472  | 136375  | 3.24%  | 0.372% |
| 45 | 10.469 | 1418 | 1425 | 1427 | rBV2 | 70685   | 97944   | 2.33%  | 0.267% |
| 46 | 10.510 | 1427 | 1432 | 1436 | rVB5 | 38518   | 75224   | 1.79%  | 0.205% |
| 47 | 10.586 | 1441 | 1445 | 1449 | rVB  | 1516743 | 1326042 | 31.53% | 3.617% |
| 48 | 10.722 | 1464 | 1468 | 1470 | rBV  | 186468  | 187912  | 4.47%  | 0.513% |
| 49 | 11.092 | 1528 | 1531 | 1535 | rVB3 | 35129   | 47200   | 1.12%  | 0.129% |
| 50 | 11.139 | 1535 | 1539 | 1541 | rVV4 | 37920   | 52876   | 1.26%  | 0.144% |
| 51 | 11.169 | 1541 | 1544 | 1546 | rVV  | 134970  | 110505  | 2.63%  | 0.301% |
| 52 | 11.198 | 1546 | 1549 | 1552 | rVB2 | 51216   | 50117   | 1.19%  | 0.137% |
| 53 | 11.286 | 1560 | 1564 | 1566 | rBV  | 1071910 | 969934  | 23.07% | 2.645% |
| 54 | 11.304 | 1566 | 1567 | 1570 | rVB  | 95007   | 74826   | 1.78%  | 0.204% |
| 55 | 11.398 | 1579 | 1583 | 1585 | rBV2 | 42349   | 47141   | 1.12%  | 0.129% |
| 56 | 11.463 | 1589 | 1594 | 1598 | rVB3 | 49543   | 78151   | 1.86%  | 0.213% |
| 57 | 11.592 | 1614 | 1616 | 1618 | rBV  | 84410   | 73233   | 1.74%  | 0.200% |
| 58 | 11.786 | 1646 | 1649 | 1651 | rBV  | 75864   | 64342   | 1.53%  | 0.175% |
| 59 | 11.816 | 1651 | 1654 | 1658 | rVB2 | 304508  | 285837  | 6.80%  | 0.780% |
| 60 | 11.892 | 1664 | 1667 | 1670 | rBV  | 137970  | 142502  | 3.39%  | 0.389% |
| 61 | 11.916 | 1670 | 1671 | 1676 | rVB  | 68389   | 61589   | 1.46%  | 0.168% |
| 62 | 11.998 | 1682 | 1685 | 1687 | rBV2 | 86777   | 73510   | 1.75%  | 0.200% |
| 63 | 12.080 | 1696 | 1699 | 1703 | rBV2 | 94802   | 101584  | 2.42%  | 0.277% |
| 64 | 12.233 | 1719 | 1725 | 1727 | rBV2 | 57082   | 71949   | 1.71%  | 0.196% |
| 65 | 12.263 | 1727 | 1730 | 1732 | rVV  | 71344   | 66625   | 1.58%  | 0.182% |
| 66 | 12.286 | 1732 | 1734 | 1736 | rVV  | 72798   | 61375   | 1.46%  | 0.167% |
| 67 | 12.333 | 1739 | 1742 | 1745 | rVV  | 159620  | 165643  | 3.94%  | 0.452% |
| 68 | 12.369 | 1745 | 1748 | 1749 | rVV  | 61037   | 65699   | 1.56%  | 0.179% |
| 69 | 12.392 | 1749 | 1752 | 1754 | rVV2 | 116810  | 113007  | 2.69%  | 0.308% |
| 70 | 12.421 | 1754 | 1757 | 1761 | rVB2 | 53490   | 60856   | 1.45%  | 0.166% |
| 71 | 12.498 | 1767 | 1770 | 1774 | rBV3 | 82754   | 130503  | 3.10%  | 0.356% |

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 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-BF062717.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 12.604 | 1785 | 1788 | 1789 | rBV2 | 56378   | 46457   | 1.10%  | 0.127% |
| 73 | 12.757 | 1811 | 1814 | 1816 | rVV2 | 48392   | 50154   | 1.19%  | 0.137% |
| 74 | 12.786 | 1816 | 1819 | 1822 | rVB  | 65075   | 61234   | 1.46%  | 0.167% |
| 75 | 12.869 | 1829 | 1833 | 1836 | rBV  | 2014978 | 1775396 | 42.22% | 4.842% |
| 76 | 12.939 | 1842 | 1845 | 1848 | rBV  | 65429   | 67280   | 1.60%  | 0.184% |
| 77 | 13.004 | 1852 | 1856 | 1858 | rBV4 | 49819   | 57022   | 1.36%  | 0.156% |
| 78 | 13.116 | 1872 | 1875 | 1878 | rBV  | 70835   | 61410   | 1.46%  | 0.167% |
| 79 | 13.151 | 1878 | 1881 | 1884 | rBV3 | 42621   | 44318   | 1.05%  | 0.121% |
| 80 | 13.457 | 1929 | 1933 | 1935 | rBV2 | 84992   | 92632   | 2.20%  | 0.253% |
| 81 | 13.551 | 1947 | 1949 | 1955 | rVB  | 51126   | 66012   | 1.57%  | 0.180% |
| 82 | 13.768 | 1983 | 1986 | 1993 | rVB4 | 139052  | 197042  | 4.69%  | 0.537% |
| 83 | 13.916 | 2007 | 2011 | 2014 | rBV  | 1113547 | 1036147 | 24.64% | 2.826% |
| 84 | 15.339 | 2249 | 2253 | 2258 | rVB  | 574382  | 723162  | 17.20% | 1.972% |

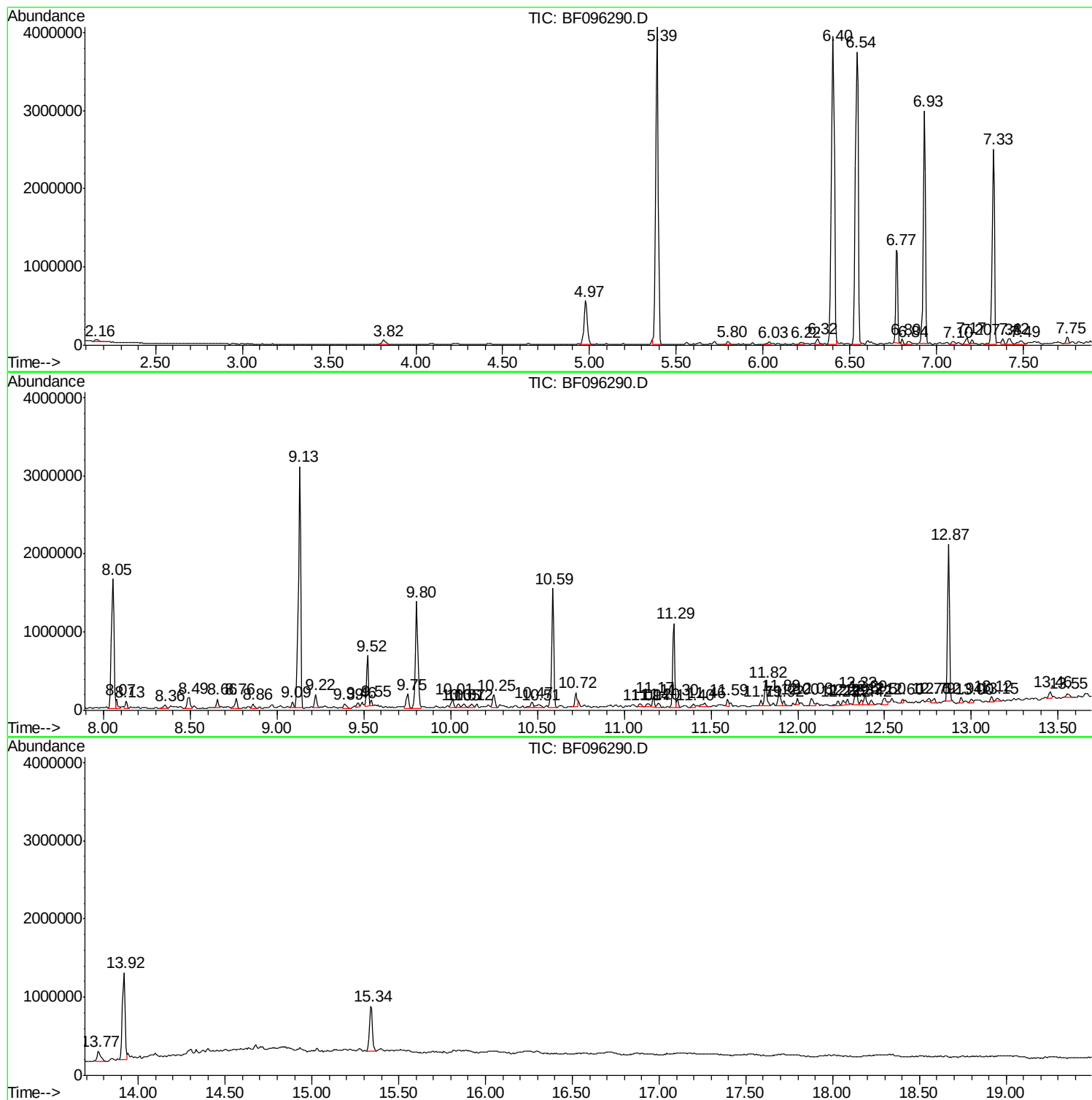
Sum of corrected areas: 36663986

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampled :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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\BF062917\  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

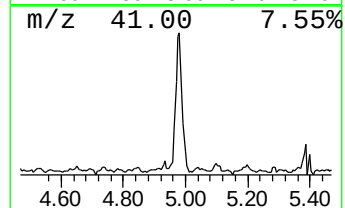
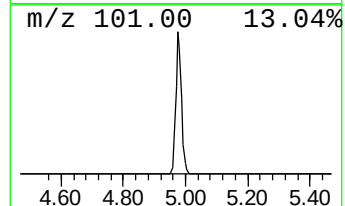
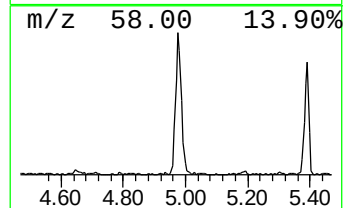
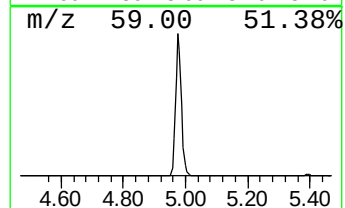
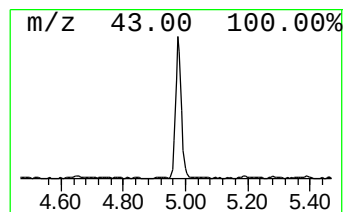
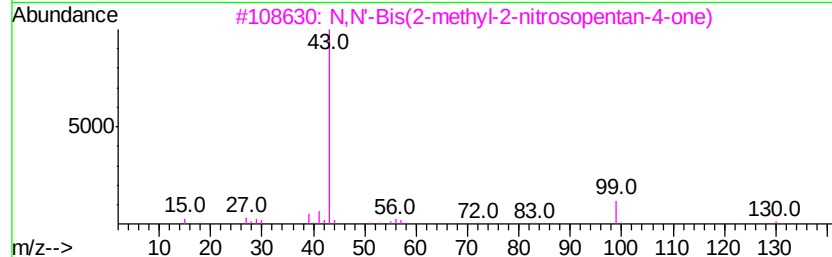
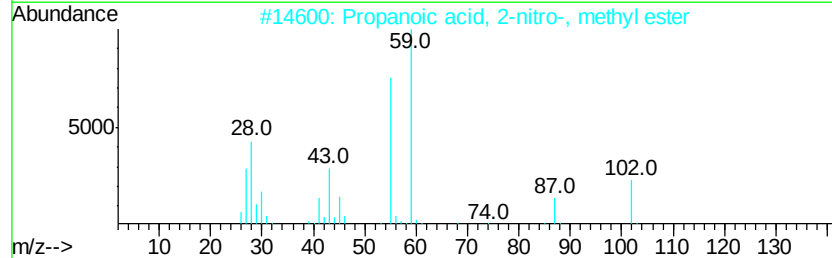
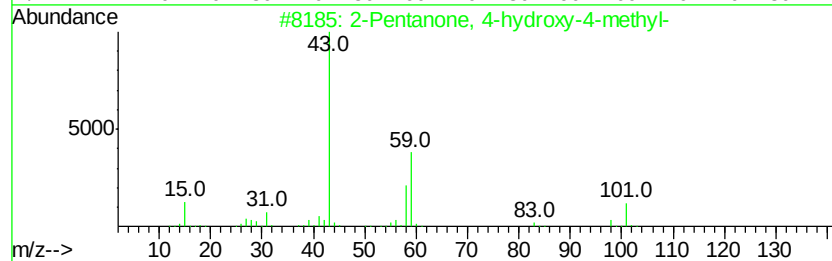
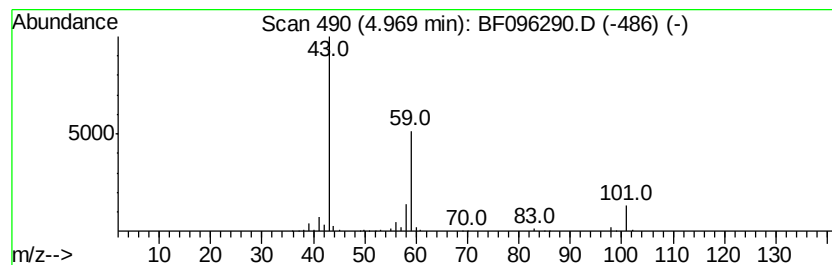
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 3

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.97 | 14.26 ng | 762454 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2    | 000123-42-2 | 50   |
| 2    |    | Propanoic acid, 2-nitro-, methyl... | 133 | C4H7NO4    | 006118-50-9 | 9    |
| 3    |    | N,N'-Bis(2-methyl-2-nitrosopenta... | 258 | C12H22N2O4 | 094514-30-4 | 9    |
| 4    |    | 3-Hexanol, 4-methyl-                | 116 | C7H16O     | 000615-29-2 | 9    |
| 5    |    | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O     | 017348-59-3 | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

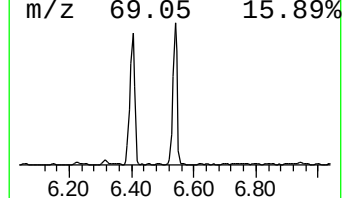
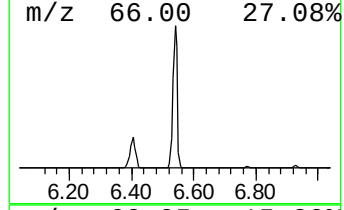
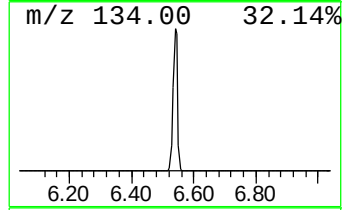
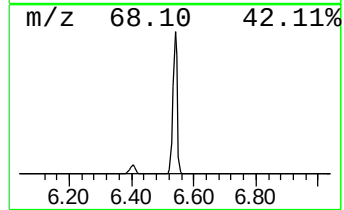
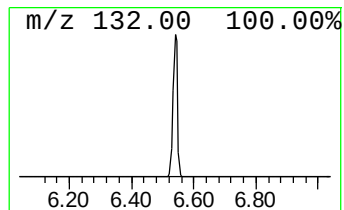
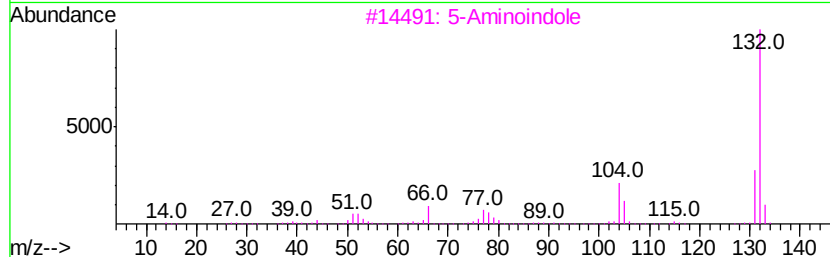
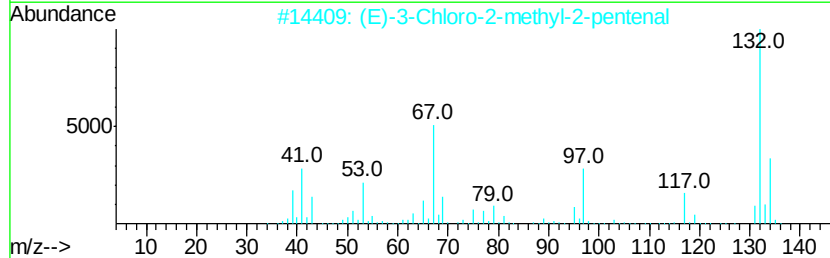
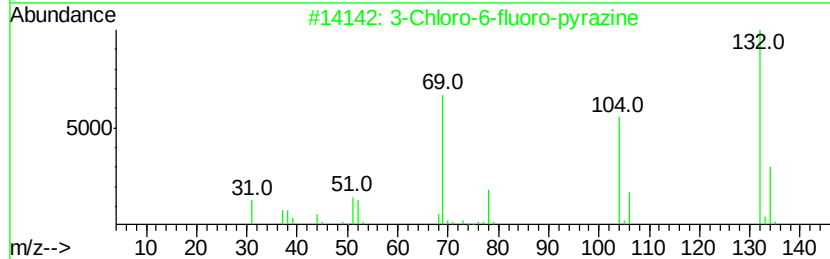
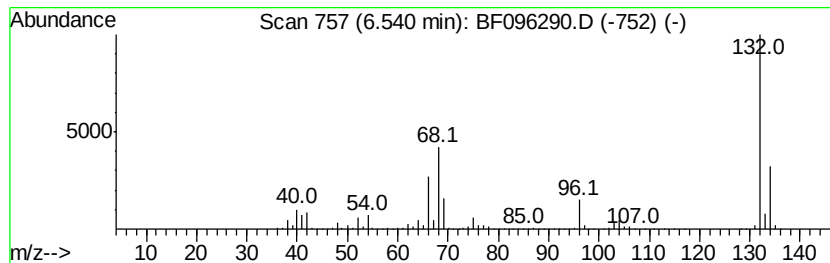
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.54 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.54 | 71.75 ng | 3835530 | 1,4-Dichlorobenzene-d4 | 6.77 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 16   |
| 3    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 5    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |



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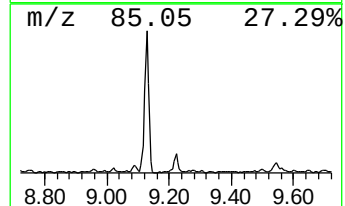
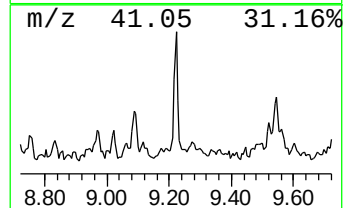
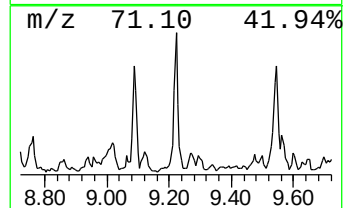
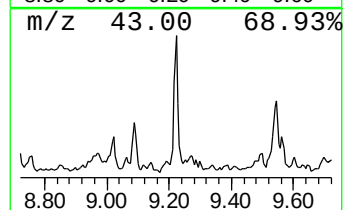
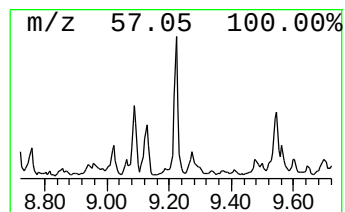
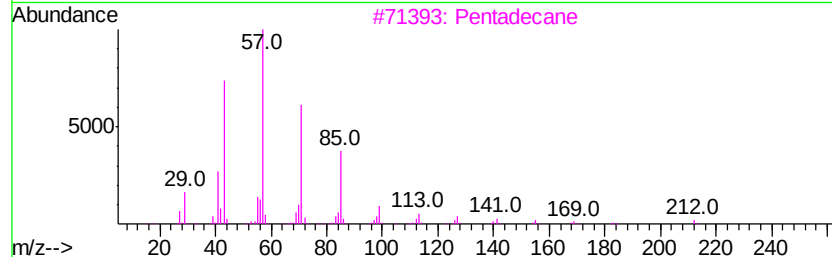
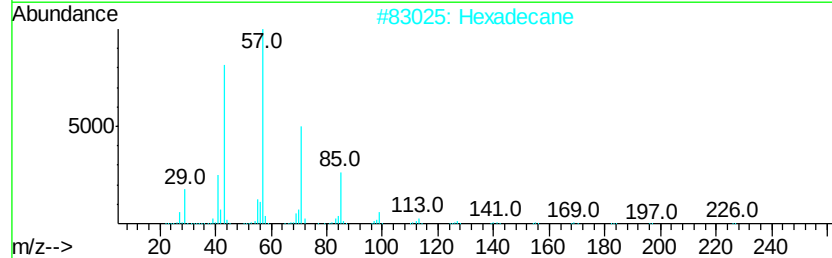
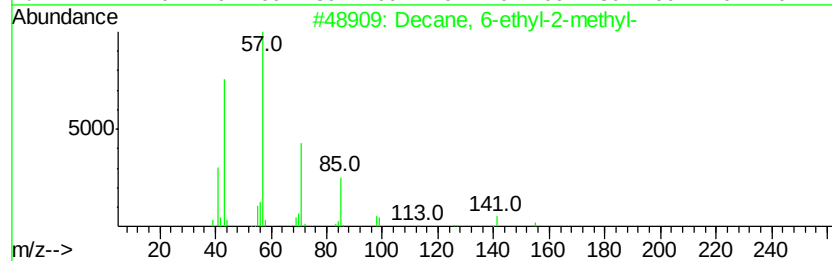
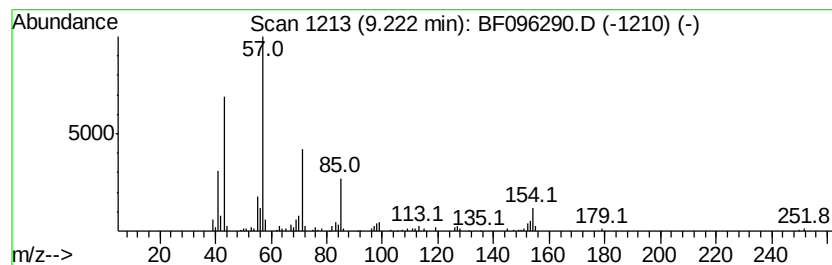
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Decane, 6-ethyl-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.22 | 2.29 ng | 145649 | Acenaphthene-d10 | 9.80 |

| Hit# of | 5                                   | Tentative ID | MW        | MolForm      | CAS# | Qual |
|---------|-------------------------------------|--------------|-----------|--------------|------|------|
| 1       | Decane, 6-ethyl-2-methyl-           | 184          | C13H28    | 062108-21-8  | 72   |      |
| 2       | Hexadecane                          | 226          | C16H34    | 000544-76-3  | 68   |      |
| 3       | Pentadecane                         | 212          | C15H32    | 000629-62-9  | 64   |      |
| 4       | Tridecane                           | 184          | C13H28    | 000629-50-5  | 53   |      |
| 5       | Sulfurous acid, 2-ethylhexyl hex... | 278          | C14H30O3S | 1000309-20-2 | 53   |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

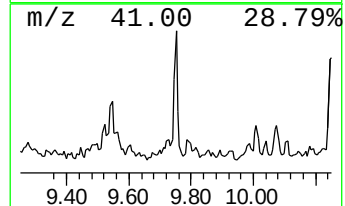
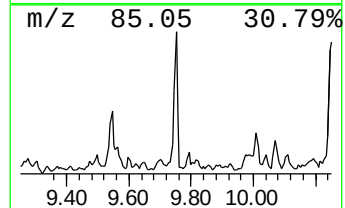
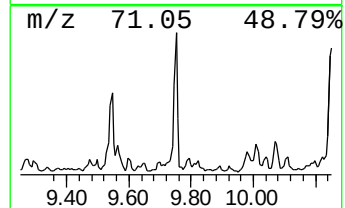
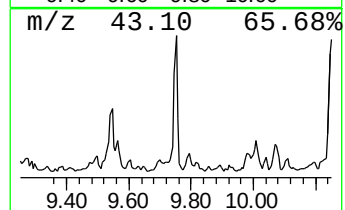
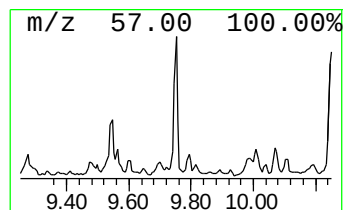
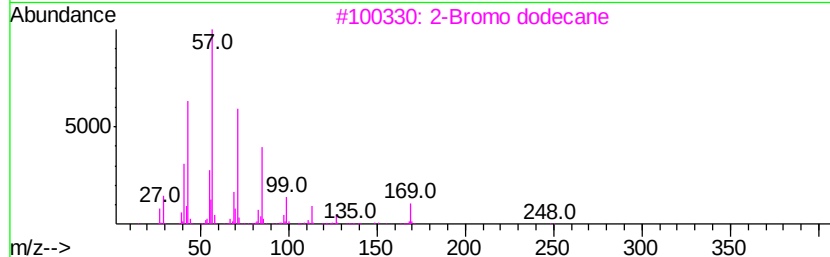
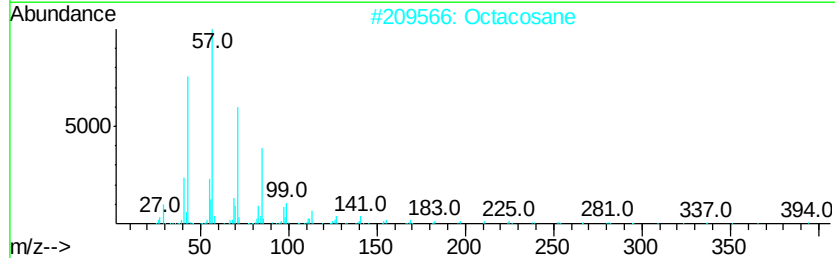
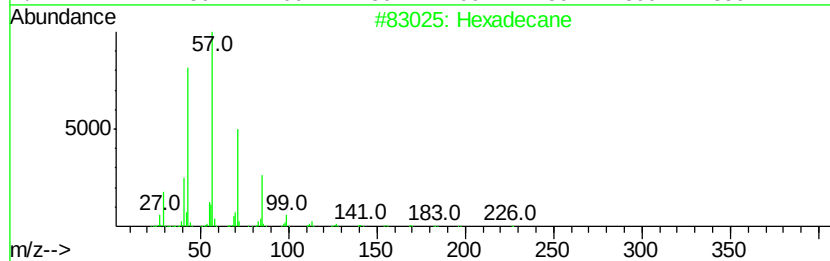
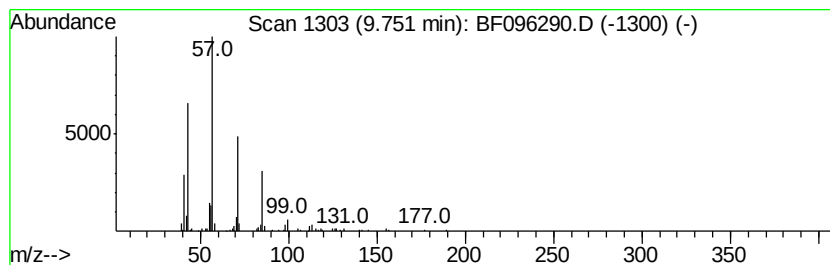
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Hexadecane Concentration Rank 11

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.75 | 2.30 ng | 146712 | Acenaphthene-d10 | 9.80 |

| Hit# of | 5                  | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|--------------------|--------------|-----|----------|-------------|------|
| 1       | Hexadecane         |              | 226 | C16H34   | 000544-76-3 | 90   |
| 2       | Octacosane         |              | 394 | C28H58   | 000630-02-4 | 83   |
| 3       | 2-Bromo dodecane   |              | 248 | C12H25Br | 013187-99-0 | 83   |
| 4       | Tridecane, 1-iodo- |              | 310 | C13H27I  | 035599-77-0 | 78   |
| 5       | Heptadecane        |              | 240 | C17H36   | 000629-78-7 | 78   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

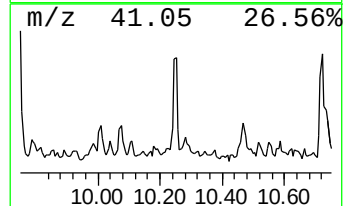
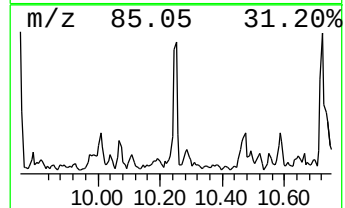
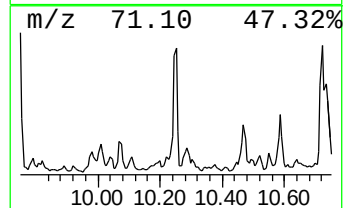
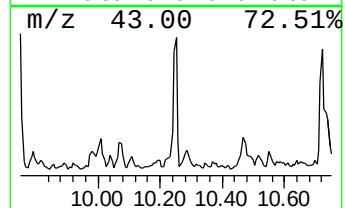
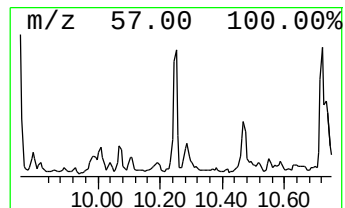
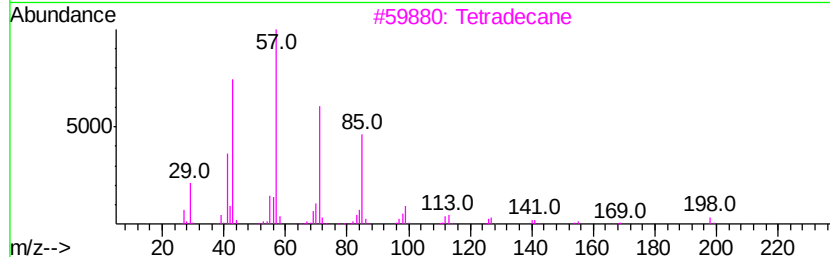
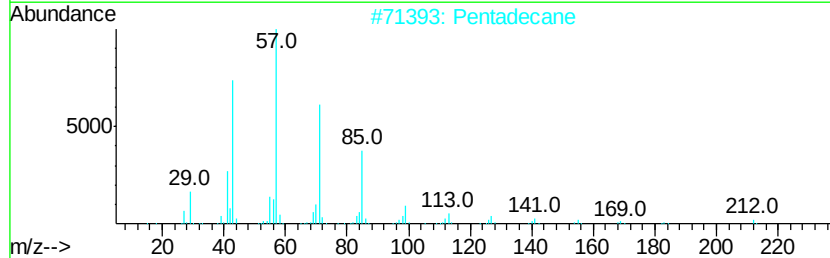
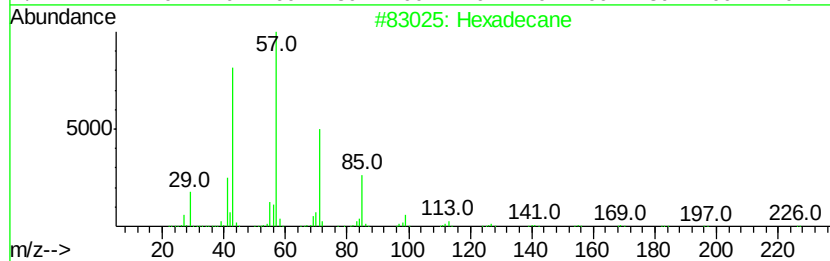
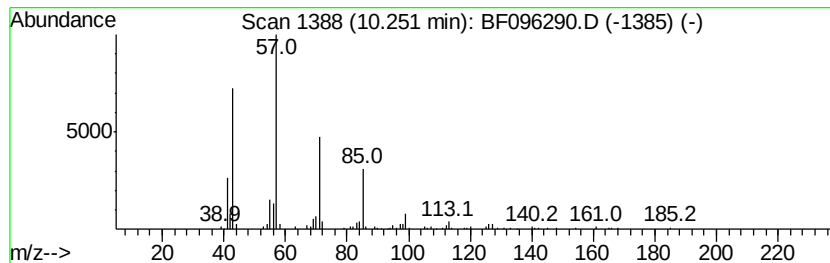
Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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 6 Heptadecane Concentration Rank 14

| R.T.    | EstConc                           | Area          | Relative to ISTD | R.T.      |
|---------|-----------------------------------|---------------|------------------|-----------|
| 10.25   | 2.14 ng                           | 136375        | Acenaphthene-d10 | 9.80      |
| Hit# of | 5                                 | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Hexadecane                        | 226 C16H34    | 000544-76-3      | 91        |
| 2       | Pentadecane                       | 212 C15H32    | 000629-62-9      | 83        |
| 3       | Tetradecane                       | 198 C14H30    | 000629-59-4      | 78        |
| 4       | Sulfurous acid, 2-propyl tetra... | 320 C17H36O3S | 1000309-12-5     | 72        |
| 5       | Heptadecane                       | 240 C17H36    | 000629-78-7      | 72        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

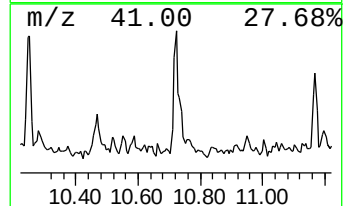
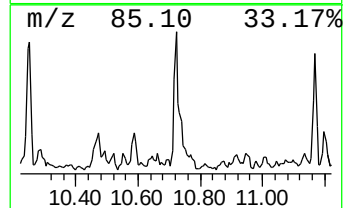
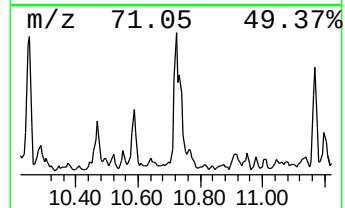
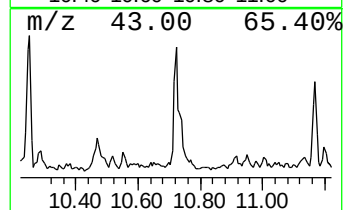
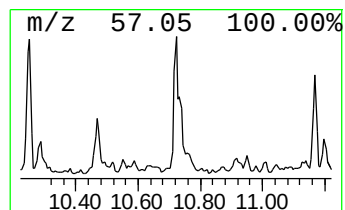
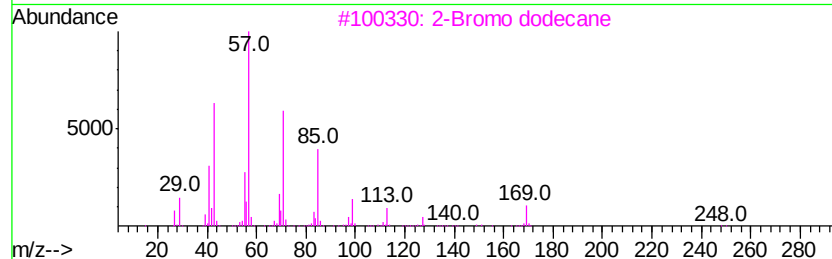
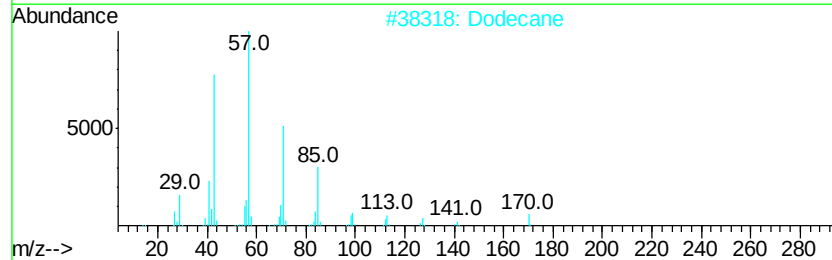
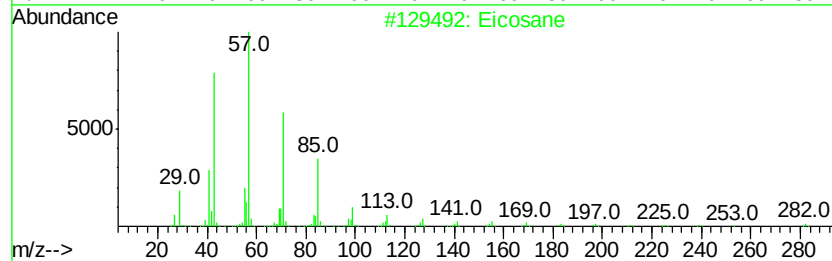
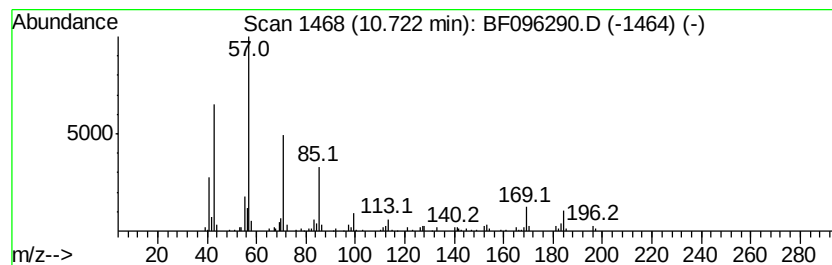
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Eicosane Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.72 | 3.87 ng | 187912 | Phenanthrene-d10 | 11.29 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|-----------|--------------|------|
| 1       | Eicosane                            |              | 282 | C20H42    | 000112-95-8  | 72   |
| 2       | Dodecane                            |              | 170 | C12H26    | 000112-40-3  | 64   |
| 3       | 2-Bromo dodecane                    |              | 248 | C12H25Br  | 013187-99-0  | 64   |
| 4       | Octane, 3,5-dimethyl-               |              | 142 | C10H22    | 015869-93-9  | 60   |
| 5       | Sulfurous acid, 2-ethylhexyl hex... |              | 278 | C14H30O3S | 1000309-20-2 | 53   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

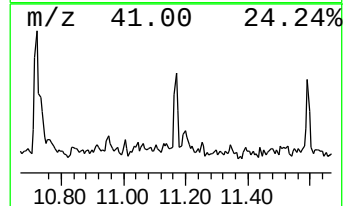
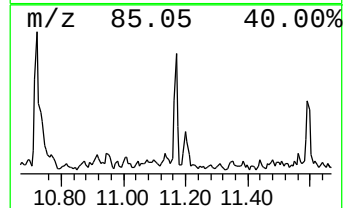
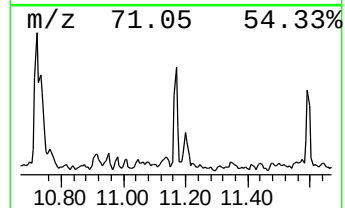
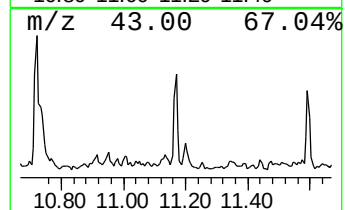
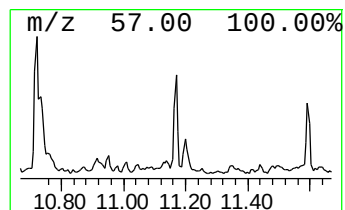
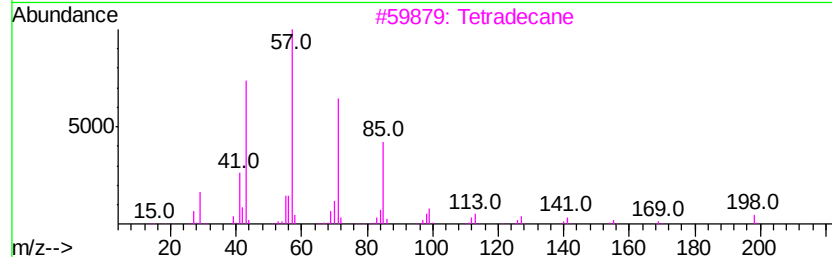
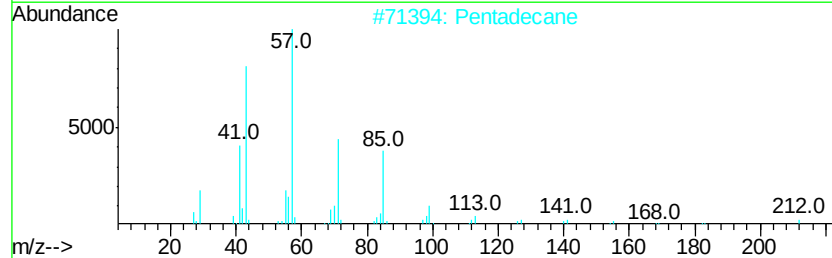
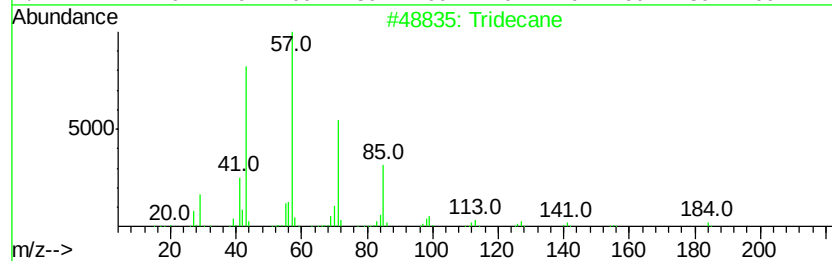
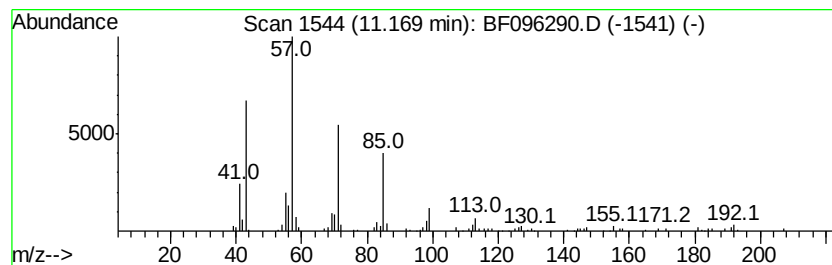
Instrument :  
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ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF062717.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 Tridecane Concentration Rank 13

| R.T.    | EstConc                             | Area          | Relative to ISTD | R.T.      |
|---------|-------------------------------------|---------------|------------------|-----------|
| 11.17   | 2.28 ng                             | 110505        | Phenanthrene-d10 | 11.29     |
| Hit# of | 5                                   | Tentative ID  | MW MolForm       | CAS# Qual |
| 1       | Tridecane                           | 184 C13H28    | 000629-50-5      | 87        |
| 2       | Pentadecane                         | 212 C15H32    | 000629-62-9      | 86        |
| 3       | Tetradecane                         | 198 C14H30    | 000629-59-4      | 80        |
| 4       | Sulfurous acid, 2-ethylhexyl hex... | 278 C14H30O3S | 1000309-20-2     | 80        |
| 5       | Disulfide, di-tert-dodecyl          | 402 C24H50S2  | 027458-90-8      | 78        |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

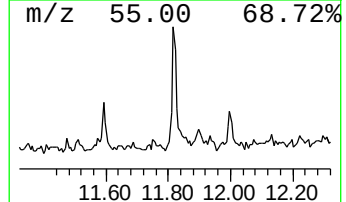
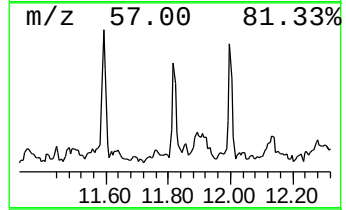
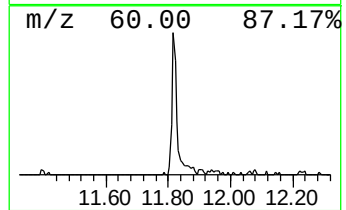
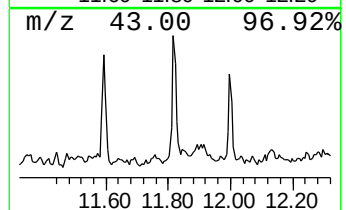
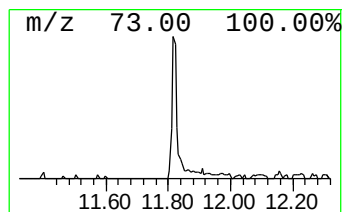
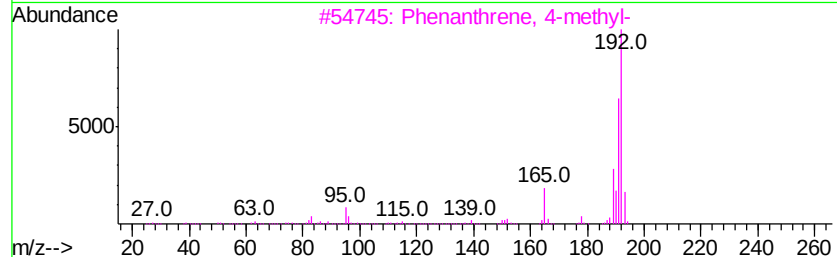
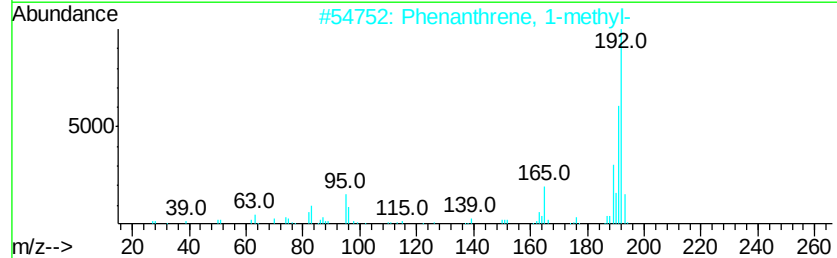
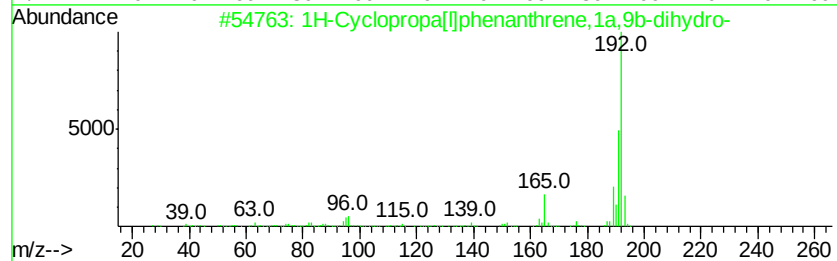
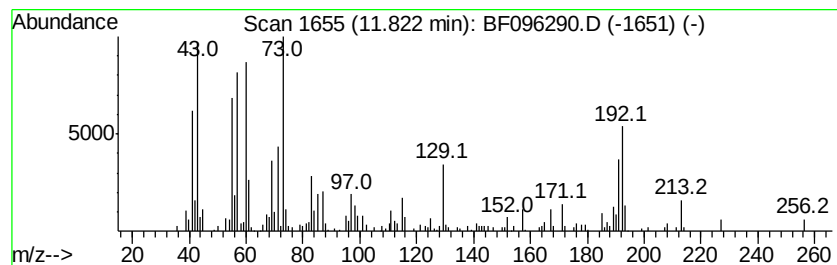
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 1H-Cyclopropa[l]phenanthren... Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.82 | 5.89 ng | 285837 | Phenanthrene-d10 | 11.29 |

| Hit# of | 5 | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|---------|---|---------------------------------------|-----|---------|-------------|------|
| 1       |   | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 91   |
| 2       |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 91   |
| 3       |   | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 90   |
| 4       |   | 1H-Indene, 2-phenyl-                  | 192 | C15H12  | 004505-48-0 | 90   |
| 5       |   | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

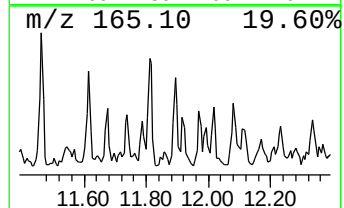
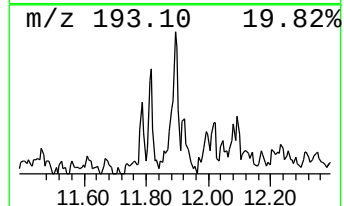
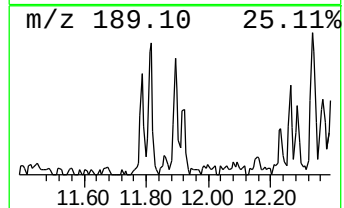
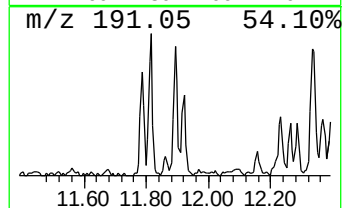
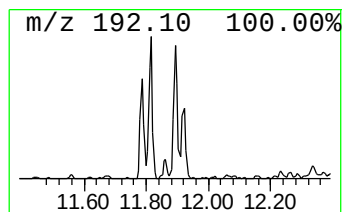
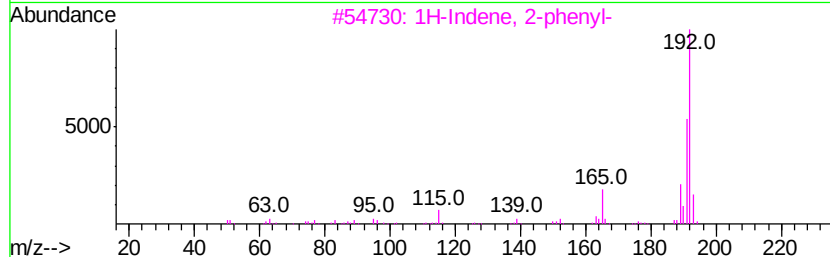
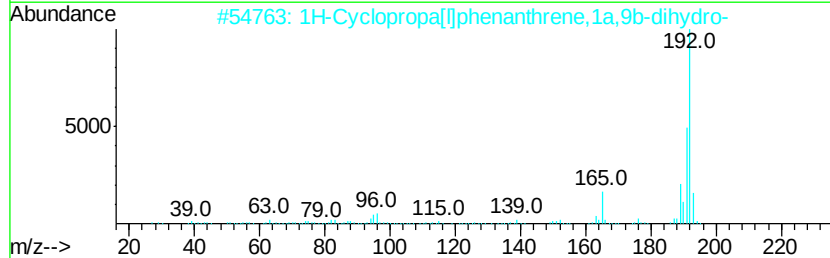
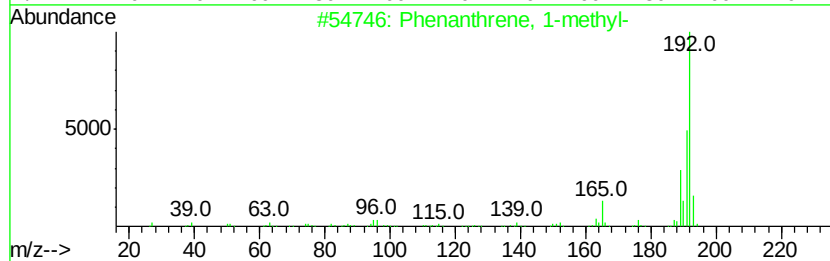
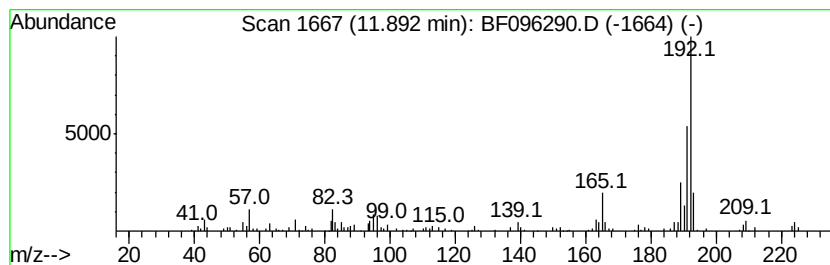
Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 Phenanthrene, 1-methyl- Concentration Rank 8

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 11.89     | 2.94 ng                             | 142502 | Phenanthrene-d10 | 11.29       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-             | 192    | C15H12           | 000832-69-9 | 93   |
| 2         | 1H-Cyclopropa[1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 93   |
| 3         | 1H-Indene, 2-phenyl-                | 192    | C15H12           | 004505-48-0 | 91   |
| 4         | Anthracene, 1-methyl-               | 192    | C15H12           | 000610-48-0 | 91   |
| 5         | Naphtho[2,3-b]norbornadiene         | 192    | C15H12           | 107426-38-0 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

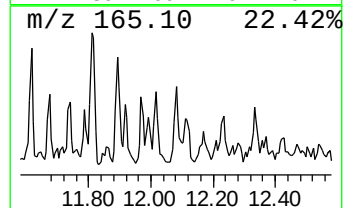
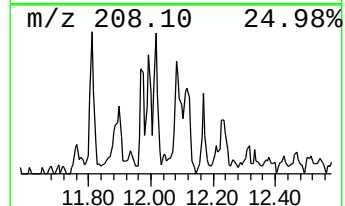
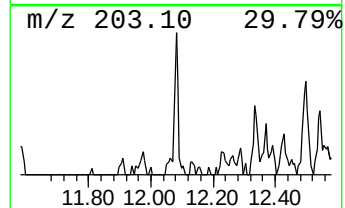
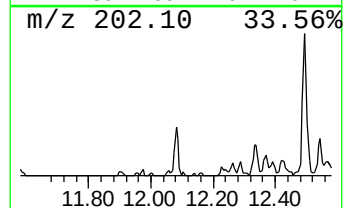
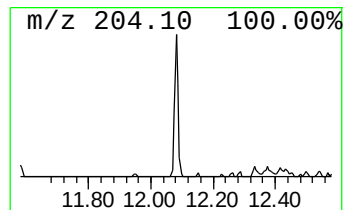
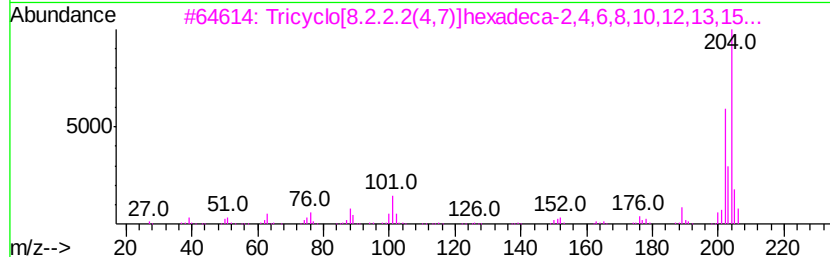
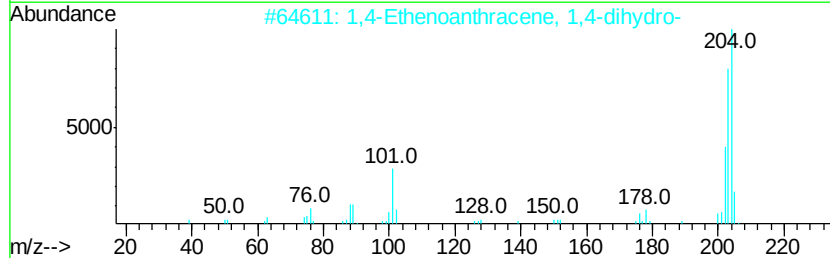
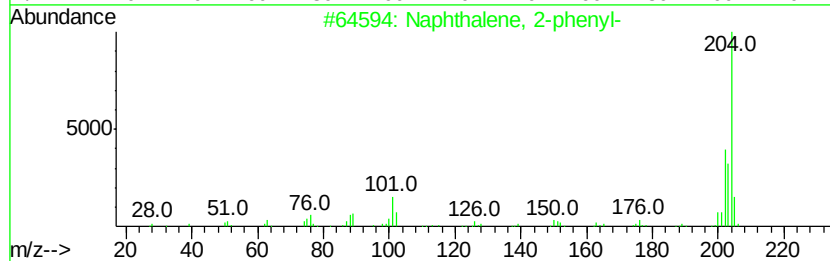
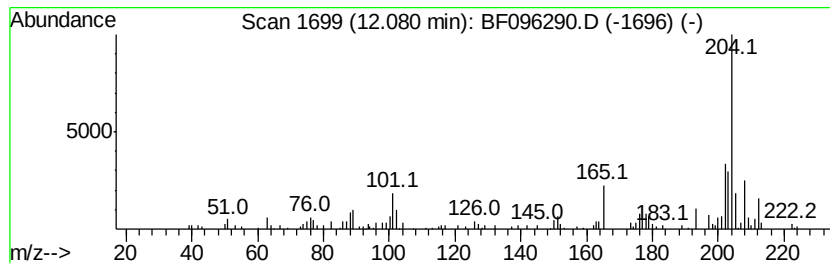
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Naphthalene, 2-phenyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.08 | 2.09 ng | 101584 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 78   |
| 2    |    | 1,4-Ethenoanthracene, 1,4-dihydro-  | 204 | C16H12  | 027765-96-4 | 64   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 60   |
| 4    |    | 3,4-Biphenyldicarbonitrile          | 204 | C14H8N2 | 004128-63-6 | 53   |
| 5    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile | 204 | C14H8N2 | 001591-30-6 | 43   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

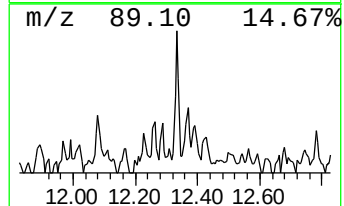
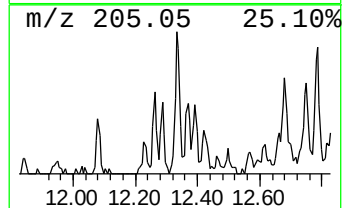
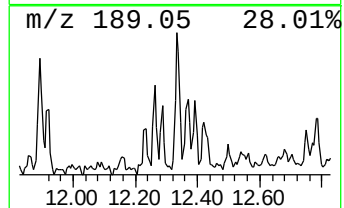
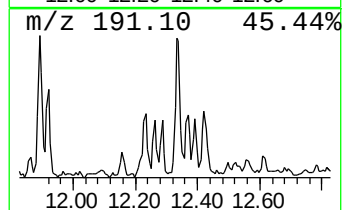
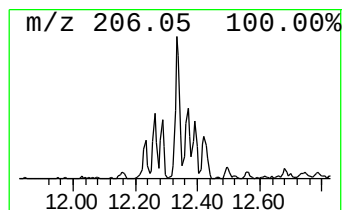
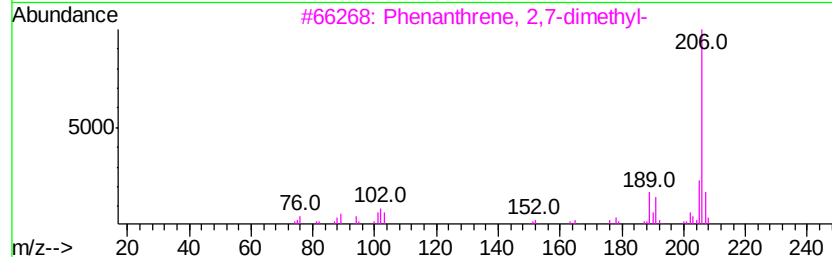
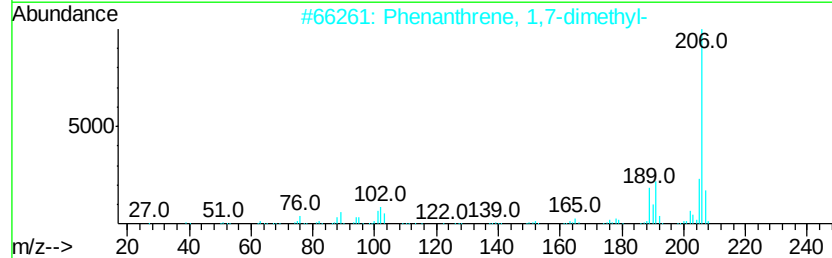
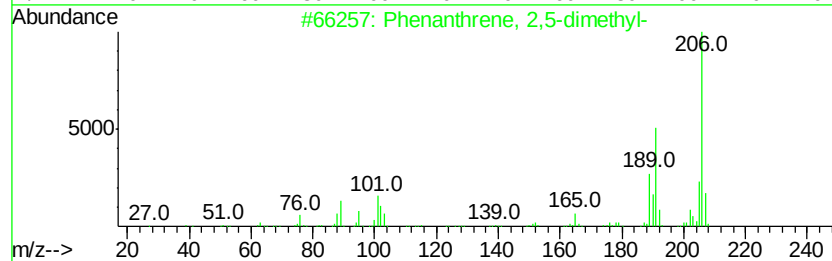
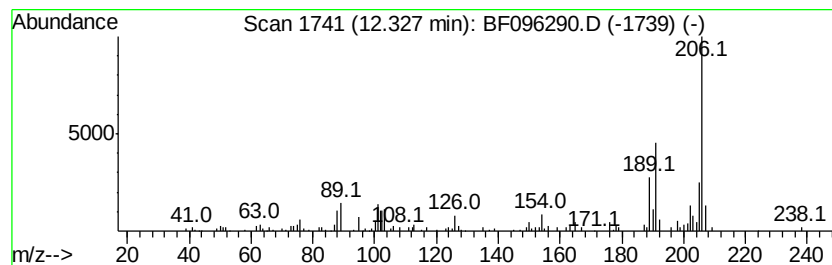
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Phenanthrene, 2,5-dimethyl- Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.33 | 3.42 ng | 165643 | Phenanthrene-d10 | 11.29 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 98   |
| 2    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 94   |
| 3    |    | Phenanthrene, 2,7-dimethyl- | 206 | C16H14  | 001576-69-8 | 93   |
| 4    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 91   |
| 5    |    | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

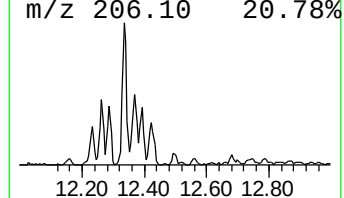
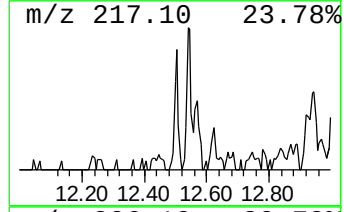
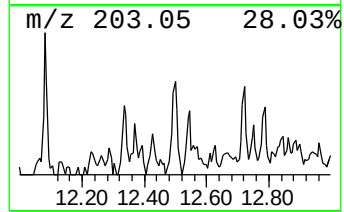
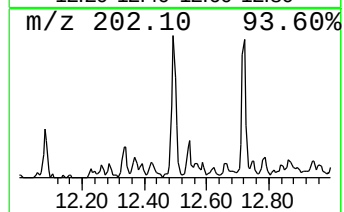
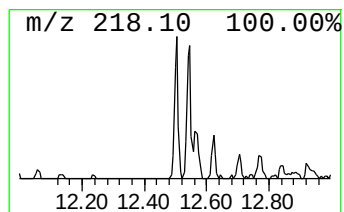
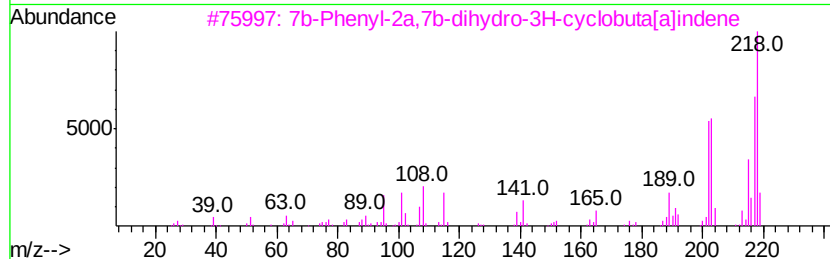
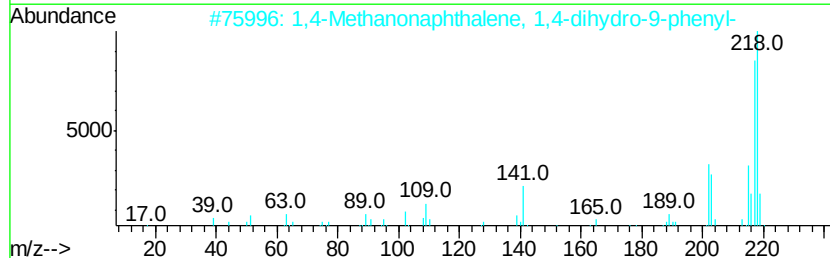
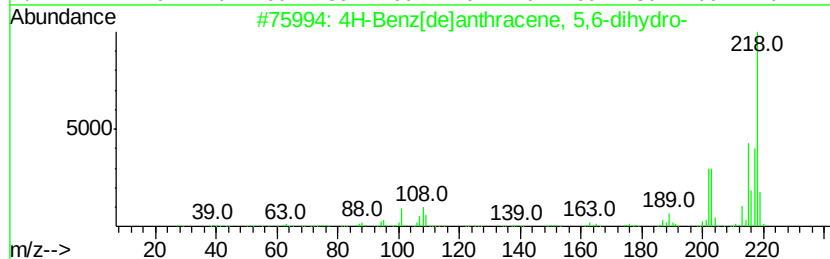
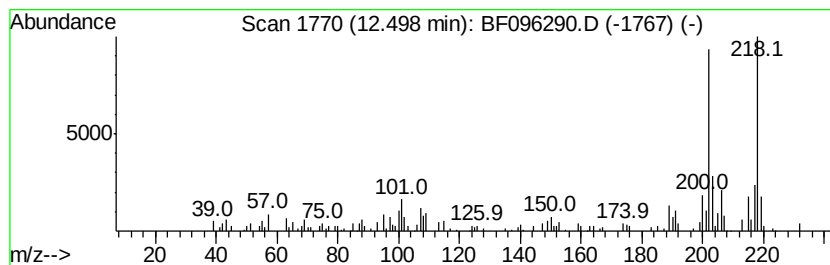
Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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 14 unknown12.50 Concentration Rank 9

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 12.50     | 2.69 ng                             | 130503 | Phenanthrene-d10 | 11.29        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | 4H-Benz[de]anthracene, 5,6-dihydro- | 218    | C17H14           | 004389-09-7  | 43   |
| 2         | 1,4-Methanonaphthalene, 1,4-dihy... | 218    | C17H14           | 055028-73-4  | 43   |
| 3         | 7b-Phenyl-2a,7b-dihydro-3H-cvclo... | 218    | C17H14           | 138089-70-0  | 38   |
| 4         | Fluoranthene                        | 202    | C16H10           | 000206-44-0  | 38   |
| 5         | 4-(p-N,N-dimethylaminophenylimin... | 218    | C13H18N2O        | 1000100-07-8 | 38   |





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Data File : BF096290.D  
Acq On : 29 Jun 2017 14:30  
Operator : SJ/MA  
Sample : I3949-01  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

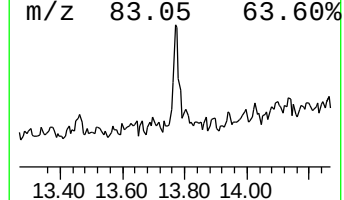
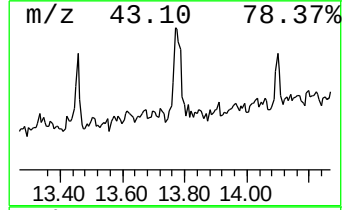
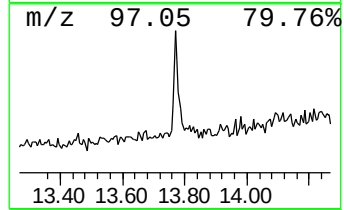
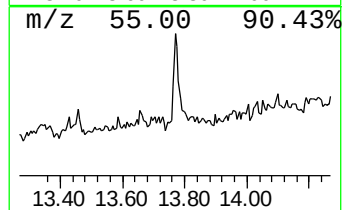
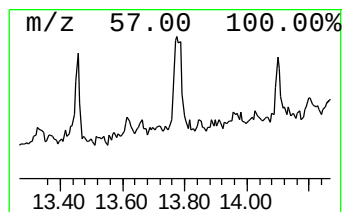
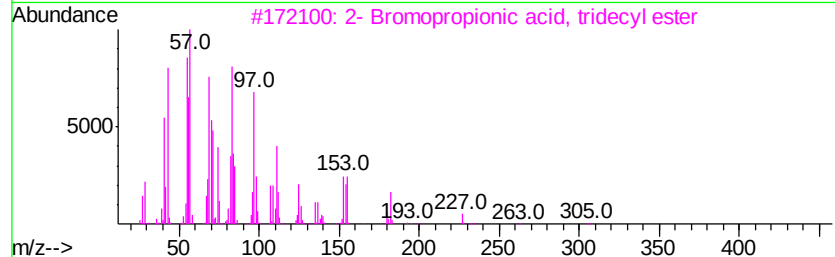
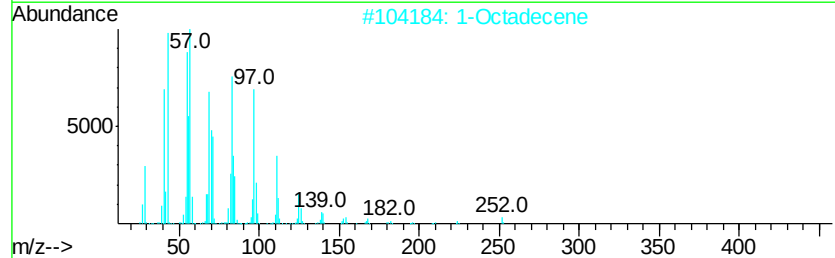
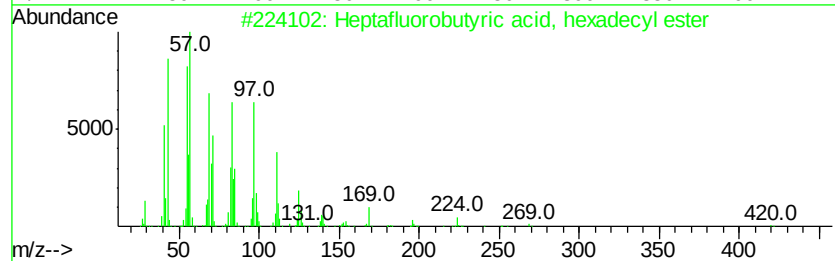
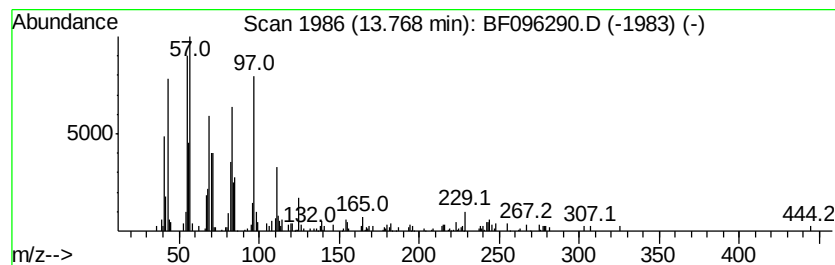
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Heptafluorobutyric acid, he... Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.77 | 3.80 ng | 197042 | Chrysene-d12     | 13.92 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5  | 91   |
| 2    |    | 1-Octadecene                        | 252 | C18H36     | 000112-88-9  | 87   |
| 3    |    | 2- Bromopropionic acid, tridecyl... | 334 | C16H31BrO2 | 1000292-43-9 | 80   |
| 4    |    | Pentafluoropropionic acid, penta... | 374 | C18H31F5O2 | 959092-08-1  | 80   |
| 5    |    | n-Tetracosanol-1                    | 354 | C24H50O    | 000506-51-4  | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF062917\  
 Data File : BF096290.D  
 Acq On : 29 Jun 2017 14:30  
 Operator : SJ/MA  
 Sample : I3949-01  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP-H1-(0-8)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF062717.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 |
| 2-Pentanone, 4-hy... | 4.97  | 14.3    | ng    | 762454   | 1                     | 6.77  | 1069100 | 20.0 |
| unknown6.54          | 6.54  | 71.8    | ng    | 3835530  | 1                     | 6.77  | 1069100 | 20.0 |
| Decane, 6-ethyl-2... | 9.22  | 2.3     | ng    | 145649   | 3                     | 9.80  | 1273680 | 20.0 |
| Hexadecane           | 9.75  | 2.3     | ng    | 146712   | 3                     | 9.80  | 1273680 | 20.0 |
| Heptadecane          | 10.25 | 2.1     | ng    | 136375   | 3                     | 9.80  | 1273680 | 20.0 |
| Eicosane             | 10.72 | 3.9     | ng    | 187912   | 4                     | 11.29 | 969934  | 20.0 |
| Tridecane            | 11.17 | 2.3     | ng    | 110505   | 4                     | 11.29 | 969934  | 20.0 |
| 1H-Cyclopropa[l]p... | 11.82 | 5.9     | ng    | 285837   | 4                     | 11.29 | 969934  | 20.0 |
| Phenanthrene, 1-m... | 11.89 | 2.9     | ng    | 142502   | 4                     | 11.29 | 969934  | 20.0 |
| Naphthalene, 2-ph... | 12.08 | 2.1     | ng    | 101584   | 4                     | 11.29 | 969934  | 20.0 |
| Phenanthrene, 2,5... | 12.33 | 3.4     | ng    | 165643   | 4                     | 11.29 | 969934  | 20.0 |
| unknown12.50         | 12.50 | 2.7     | ng    | 130503   | 4                     | 11.29 | 969934  | 20.0 |
| Heptafluorobutyri... | 13.77 | 3.8     | ng    | 197042   | 5                     | 13.92 | 1036150 | 20.0 |