

Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
 Data File : BF098921.D  
 Acq On : 28 Sep 2017 21:59  
 Operator : SJ/JU  
 Sample : I5457-09  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 LB-27(2.5-3)

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-BF092317.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.222    | 19         | 23       | 37        | rVB   | 78984       | 134126     | 4.66%        | 0.414%     |
| 2      | 5.140    | 515        | 519      | 528       | rBV   | 544299      | 636181     | 22.12%       | 1.962%     |
| 3      | 5.534    | 580        | 586      | 590       | rBV   | 2555593     | 2568385    | 89.28%       | 7.920%     |
| 4      | 6.539    | 751        | 757      | 760       | rBV   | 2522472     | 2654466    | 92.28%       | 8.185%     |
| 5      | 6.686    | 777        | 782      | 785       | rBV   | 2910925     | 2674351    | 92.97%       | 8.246%     |
| 6      | 6.739    | 788        | 791      | 796       | rBV2  | 56751       | 51114      | 1.78%        | 0.158%     |
| 7      | 6.916    | 817        | 821      | 824       | rBV   | 1161424     | 927129     | 32.23%       | 2.859%     |
| 8      | 7.075    | 843        | 848      | 851       | rBV   | 2199427     | 2060865    | 71.64%       | 6.355%     |
| 9      | 7.475    | 911        | 916      | 919       | rBV   | 1711188     | 1654801    | 57.52%       | 5.103%     |
| 10     | 7.545    | 925        | 928      | 933       | rVB3  | 34661       | 31689      | 1.10%        | 0.098%     |
| 11     | 8.198    | 1035       | 1039     | 1041      | rBV   | 1434343     | 1128795    | 39.24%       | 3.481%     |
| 12     | 8.216    | 1041       | 1042     | 1045      | rVB   | 86785       | 56139      | 1.95%        | 0.173%     |
| 13     | 8.910    | 1157       | 1160     | 1162      | rBV   | 48253       | 38748      | 1.35%        | 0.119%     |
| 14     | 9.010    | 1173       | 1177     | 1179      | rBV   | 34440       | 30443      | 1.06%        | 0.094%     |
| 15     | 9.269    | 1216       | 1221     | 1225      | rBV   | 3107361     | 2876675    | 100.00%      | 8.870%     |
| 16     | 9.345    | 1231       | 1234     | 1236      | rBV   | 40357       | 32580      | 1.13%        | 0.100%     |
| 17     | 9.539    | 1263       | 1267     | 1270      | rBV2  | 26006       | 30737      | 1.07%        | 0.095%     |
| 18     | 9.610    | 1275       | 1279     | 1281      | rBV   | 32877       | 35480      | 1.23%        | 0.109%     |
| 19     | 9.663    | 1285       | 1288     | 1293      | rVV   | 426409      | 363947     | 12.65%       | 1.122%     |
| 20     | 9.816    | 1310       | 1314     | 1317      | rBV   | 92270       | 89890      | 3.12%        | 0.277%     |
| 21     | 9.875    | 1319       | 1324     | 1326      | rVB2  | 62435       | 60907      | 2.12%        | 0.188%     |
| 22     | 9.951    | 1334       | 1337     | 1341      | rVV   | 1122267     | 1013475    | 35.23%       | 3.125%     |
| 23     | 9.986    | 1341       | 1343     | 1346      | rVB   | 60795       | 45633      | 1.59%        | 0.141%     |
| 24     | 10.157   | 1369       | 1372     | 1375      | rVB2  | 48163       | 47500      | 1.65%        | 0.146%     |
| 25     | 10.192   | 1375       | 1378     | 1383      | rBV3  | 33309       | 30456      | 1.06%        | 0.094%     |
| 26     | 10.374   | 1406       | 1409     | 1411      | rVB   | 94942       | 77541      | 2.70%        | 0.239%     |
| 27     | 10.498   | 1427       | 1430     | 1435      | rVB2  | 64169       | 67573      | 2.35%        | 0.208%     |
| 28     | 10.592   | 1442       | 1446     | 1448      | rBV2  | 36520       | 42227      | 1.47%        | 0.130%     |
| 29     | 10.739   | 1467       | 1471     | 1475      | rBV   | 1339338     | 1216629    | 42.29%       | 3.752%     |
| 30     | 10.845   | 1486       | 1489     | 1499      | rVB   | 116623      | 155379     | 5.40%        | 0.479%     |
| 31     | 11.045   | 1518       | 1523     | 1526      | rBV5  | 31742       | 48841      | 1.70%        | 0.151%     |
| 32     | 11.245   | 1554       | 1557     | 1560      | rVB2  | 40944       | 37980      | 1.32%        | 0.117%     |
| 33     | 11.292   | 1560       | 1565     | 1568      | rBV2  | 85168       | 86842      | 3.02%        | 0.268%     |
| 34     | 11.333   | 1568       | 1572     | 1577      | rVB2  | 49911       | 79776      | 2.77%        | 0.246%     |

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 LB-27(2.5-3)

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-BF092317.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.386 | 1577 | 1581 | 1586 | rBV  | 21815   | 31684   | 1.10%  | 0.098% |
| 36 | 11.439 | 1586 | 1590 | 1592 | rBV  | 941469  | 807023  | 28.05% | 2.488% |
| 37 | 11.463 | 1592 | 1594 | 1598 | rVV  | 704615  | 559496  | 19.45% | 1.725% |
| 38 | 11.516 | 1600 | 1603 | 1605 | rVB  | 176607  | 134849  | 4.69%  | 0.416% |
| 39 | 11.669 | 1623 | 1629 | 1634 | rBV2 | 75153   | 101736  | 3.54%  | 0.314% |
| 40 | 11.721 | 1635 | 1638 | 1643 | rVV2 | 48941   | 53820   | 1.87%  | 0.166% |
| 41 | 11.957 | 1673 | 1678 | 1683 | rBV2 | 248247  | 411621  | 14.31% | 1.269% |
| 42 | 12.016 | 1686 | 1688 | 1691 | rVB  | 58018   | 40580   | 1.41%  | 0.125% |
| 43 | 12.051 | 1691 | 1694 | 1697 | rBV2 | 130948  | 159258  | 5.54%  | 0.491% |
| 44 | 12.127 | 1704 | 1707 | 1709 | rBV  | 47784   | 38431   | 1.34%  | 0.119% |
| 45 | 12.233 | 1722 | 1725 | 1727 | rBV  | 73574   | 66712   | 2.32%  | 0.206% |
| 46 | 12.257 | 1727 | 1729 | 1732 | rVB3 | 49471   | 43864   | 1.52%  | 0.135% |
| 47 | 12.486 | 1765 | 1768 | 1771 | rBV  | 68801   | 74316   | 2.58%  | 0.229% |
| 48 | 12.516 | 1771 | 1773 | 1777 | rVV4 | 51830   | 66318   | 2.31%  | 0.204% |
| 49 | 12.574 | 1780 | 1783 | 1788 | rVB  | 71224   | 72126   | 2.51%  | 0.222% |
| 50 | 12.657 | 1793 | 1797 | 1800 | rBV  | 979311  | 901685  | 31.34% | 2.780% |
| 51 | 12.739 | 1809 | 1811 | 1815 | rBV2 | 124600  | 143065  | 4.97%  | 0.441% |
| 52 | 12.886 | 1833 | 1836 | 1841 | rVB  | 937932  | 793408  | 27.58% | 2.447% |
| 53 | 12.933 | 1841 | 1844 | 1848 | rVB2 | 52654   | 65257   | 2.27%  | 0.201% |
| 54 | 13.021 | 1853 | 1859 | 1865 | rBV  | 1973150 | 1956273 | 68.00% | 6.032% |
| 55 | 13.098 | 1869 | 1872 | 1876 | rVV2 | 54490   | 86792   | 3.02%  | 0.268% |
| 56 | 13.210 | 1888 | 1891 | 1894 | rVB  | 140655  | 135008  | 4.69%  | 0.416% |
| 57 | 13.274 | 1900 | 1902 | 1905 | rBV  | 70209   | 57839   | 2.01%  | 0.178% |
| 58 | 13.315 | 1906 | 1909 | 1911 | rVB2 | 90956   | 91065   | 3.17%  | 0.281% |
| 59 | 13.439 | 1927 | 1930 | 1933 | rBV2 | 59823   | 67067   | 2.33%  | 0.207% |
| 60 | 13.492 | 1936 | 1939 | 1942 | rVV  | 144645  | 128209  | 4.46%  | 0.395% |
| 61 | 13.715 | 1974 | 1977 | 1983 | rVB  | 107920  | 100555  | 3.50%  | 0.310% |
| 62 | 13.857 | 1999 | 2001 | 2003 | rBV  | 77600   | 54078   | 1.88%  | 0.167% |
| 63 | 13.880 | 2003 | 2005 | 2006 | rBV  | 61077   | 45936   | 1.60%  | 0.142% |
| 64 | 14.051 | 2031 | 2034 | 2035 | rBV  | 82568   | 86083   | 2.99%  | 0.265% |
| 65 | 14.080 | 2035 | 2039 | 2042 | rVV2 | 1028666 | 1366443 | 47.50% | 4.213% |
| 66 | 14.104 | 2042 | 2043 | 2049 | rVB  | 456909  | 406572  | 14.13% | 1.254% |
| 67 | 15.139 | 2215 | 2219 | 2222 | rBV  | 427580  | 680397  | 23.65% | 2.098% |
| 68 | 15.451 | 2269 | 2272 | 2278 | rVB  | 258642  | 339330  | 11.80% | 1.046% |
| 69 | 15.515 | 2279 | 2283 | 2288 | rBV  | 358625  | 453661  | 15.77% | 1.399% |
| 70 | 15.580 | 2290 | 2294 | 2298 | rBV  | 552892  | 722298  | 25.11% | 2.227% |

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ClientSampleId :  
LB-27(2.5-3)

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

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

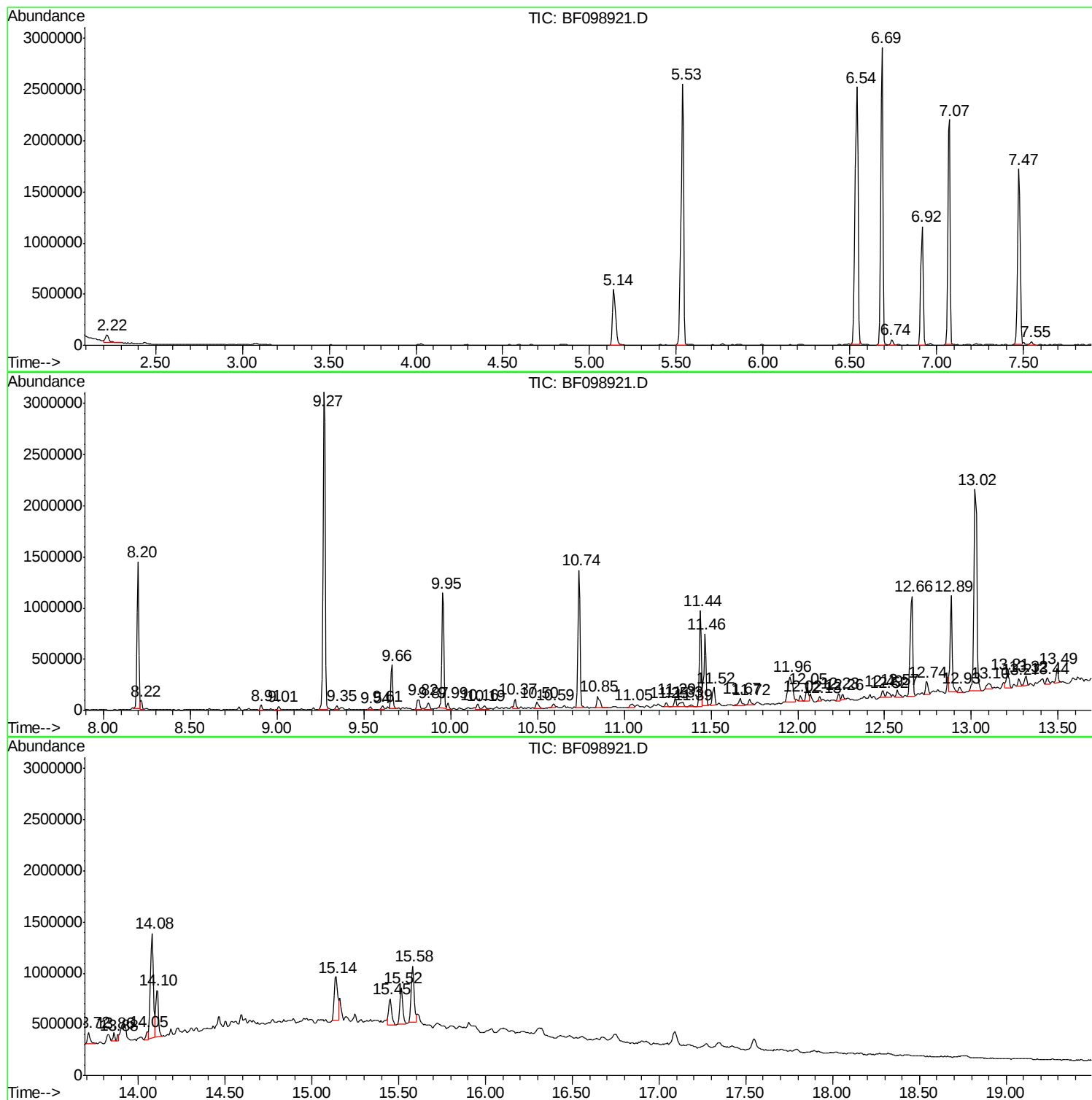
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Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

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



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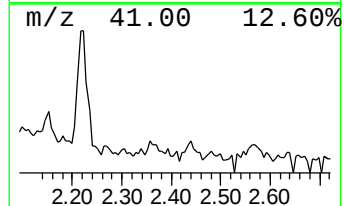
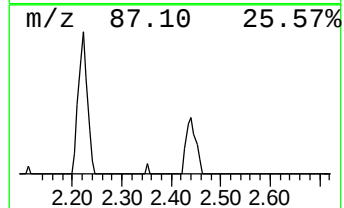
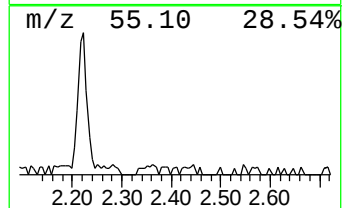
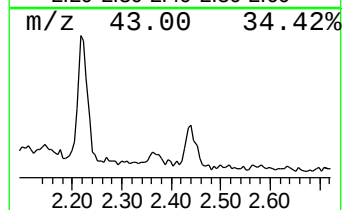
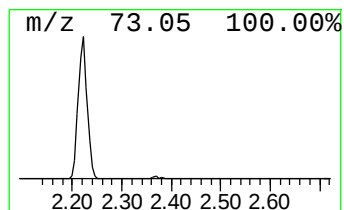
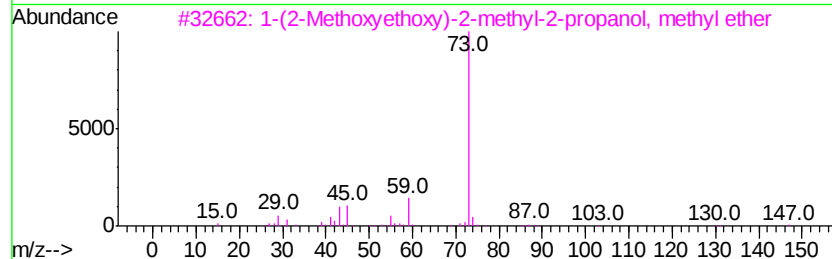
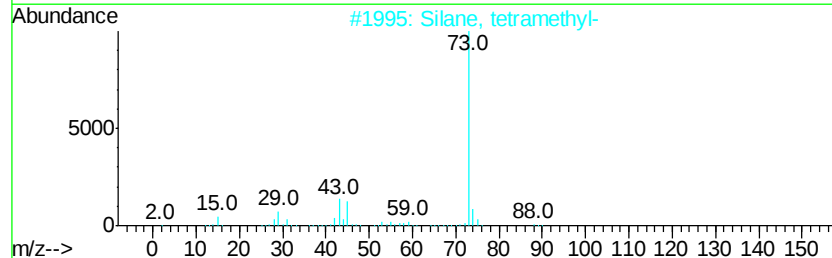
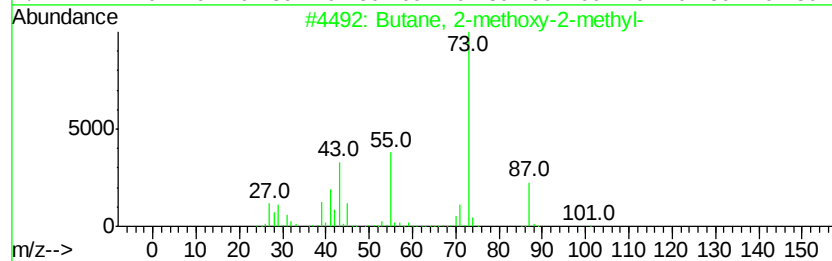
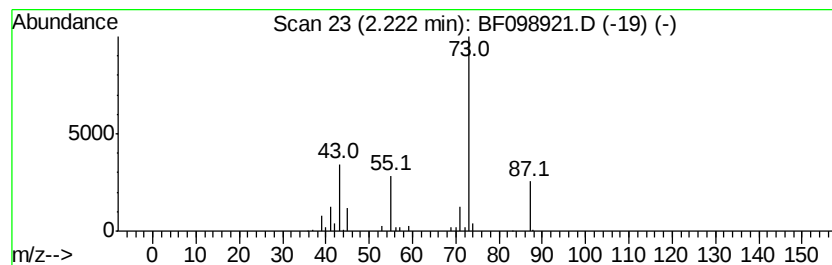
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 Butane, 2-methoxy-2-methyl- Concentration Rank 9

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.22 | 2.89 ng | 134126 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# | of | Tentative ID                            | MW  | MolForm | CAS#         | Qual |
|------|----|-----------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl-             | 102 | C6H14O  | 000994-05-8  | 78   |
| 2    |    | Silane, tetramethyl-                    | 88  | C4H12Si | 000075-76-3  | 43   |
| 3    |    | 1-(2-Methoxyethoxy)-2-methyl-2-propanol | 162 | C8H18O3 | 1000364-24-4 | 28   |
| 4    |    | 2-Methyl-5-hexen-3-ol                   | 114 | C7H14O  | 032815-70-6  | 25   |
| 5    |    | 3-Hexanol, 2-methyl-                    | 116 | C7H16O  | 000617-29-8  | 17   |



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LB-27(2.5-3)

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

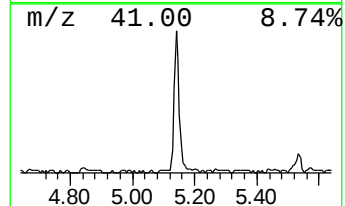
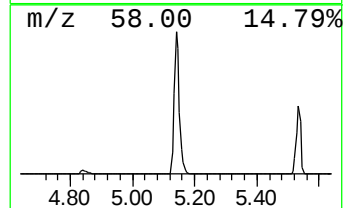
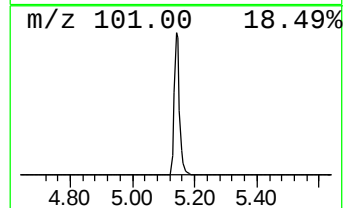
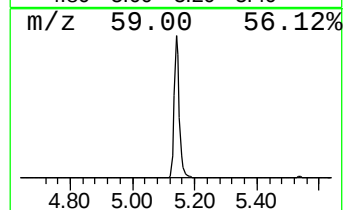
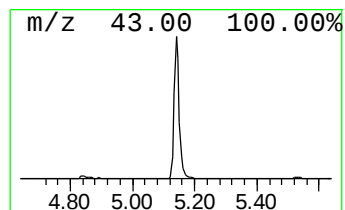
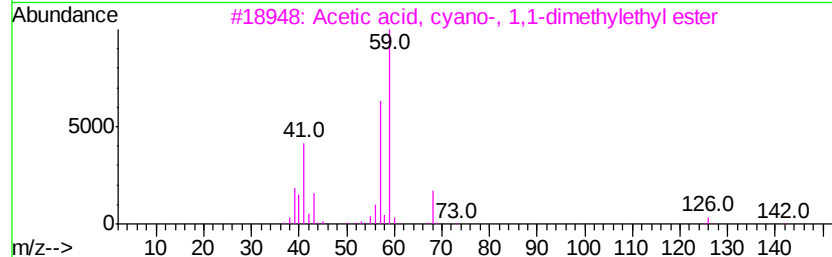
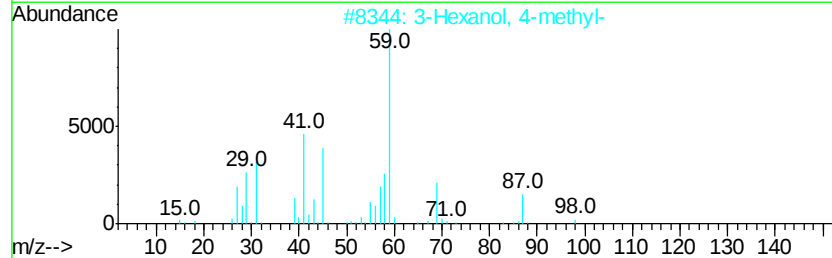
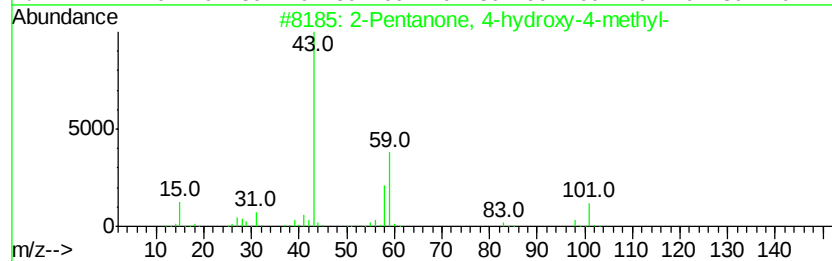
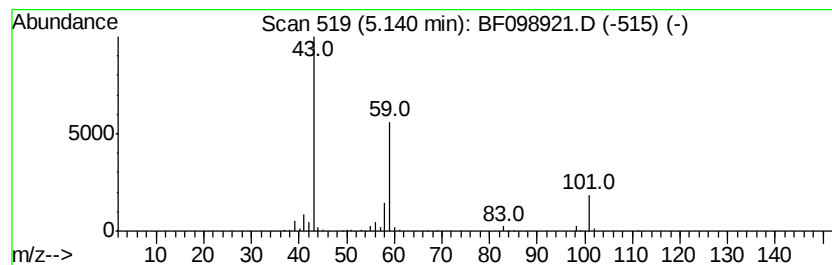
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.14 | 13.72 ng | 636181 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 59   |
| 2    |    | 3-Hexanol, 4-methyl-                 | 116 | C7H16O   | 000615-29-2 | 33   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    | 1-Propen-2-ol, acetate               | 100 | C5H8O2   | 000108-22-5 | 10   |
| 5    |    | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |



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LB-27(2.5-3)

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

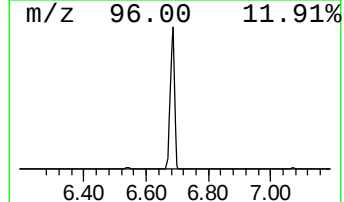
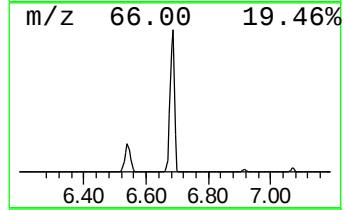
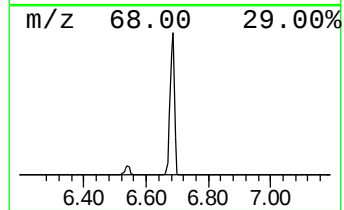
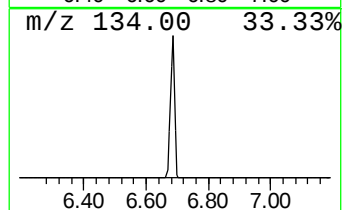
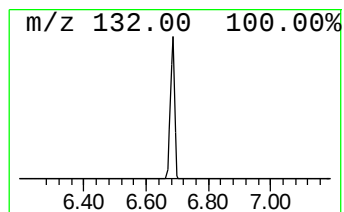
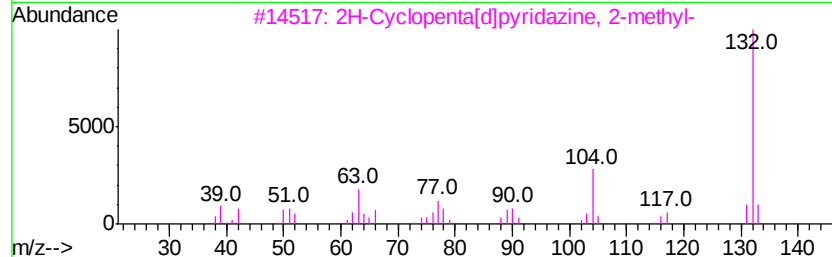
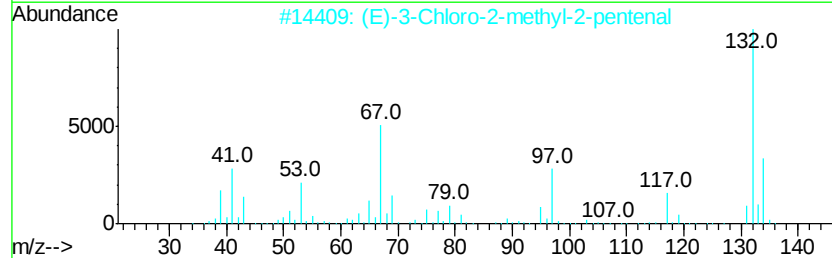
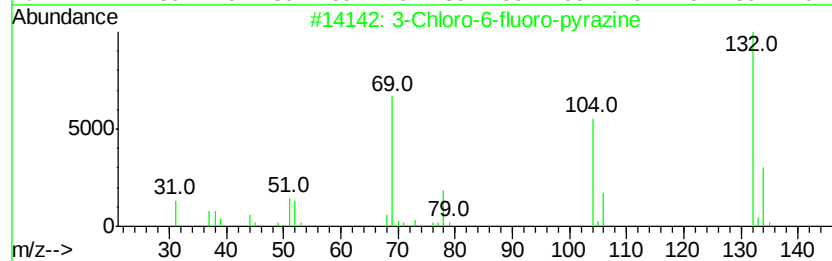
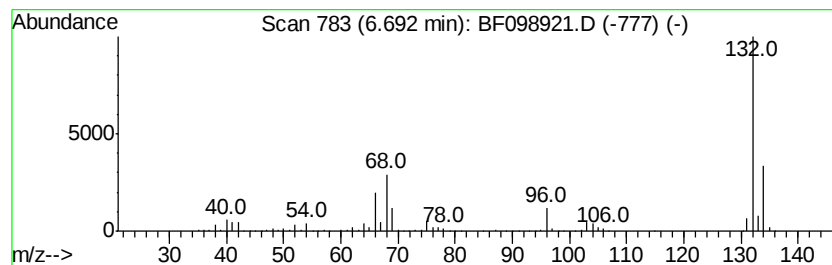
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.69 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.69 | 57.69 ng | 2674350 | 1,4-Dichlorobenzene-d4 | 6.92 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 35   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | 1-Methylpyrrolo[1,2-a]pyrazine      | 132 | C8H8N2    | 064608-59-9  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

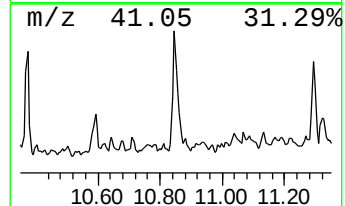
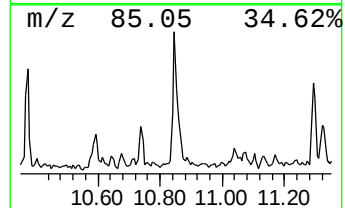
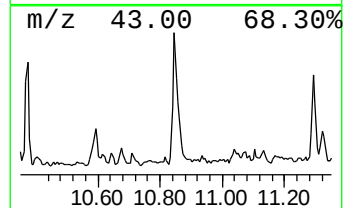
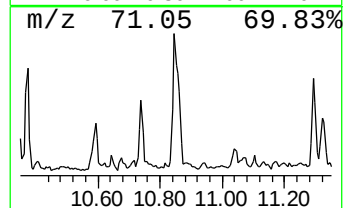
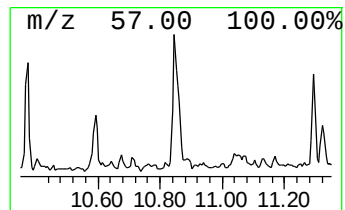
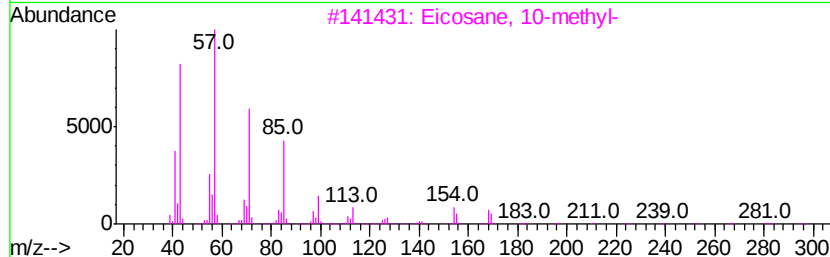
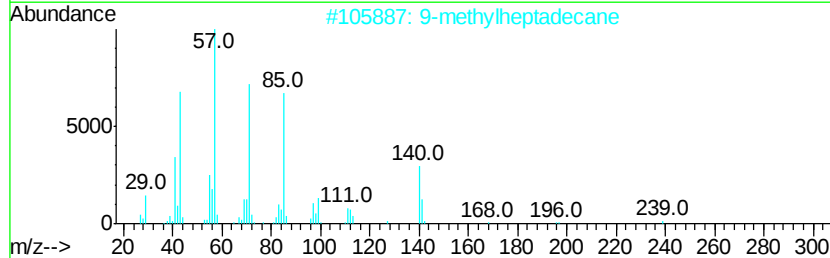
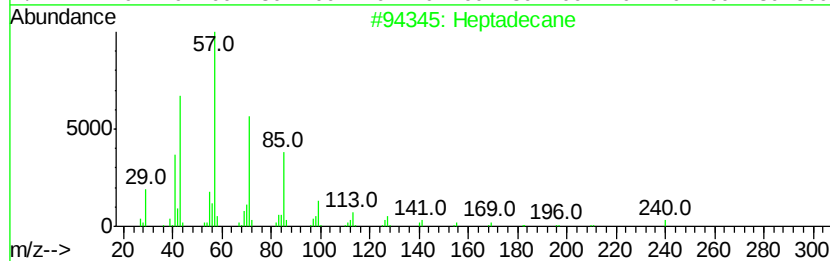
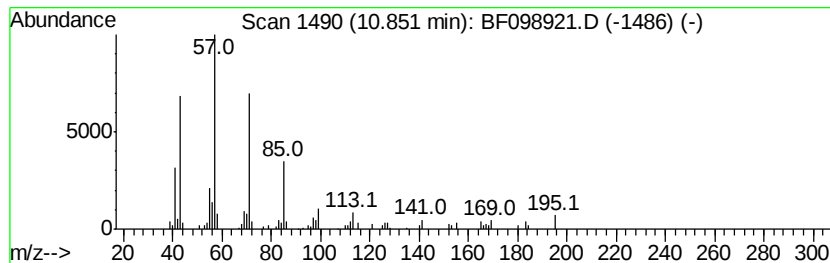
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Heptadecane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.85 | 3.85 ng | 155379 | Phenanthrene-d10 | 11.44 |

| Hit# of | 5                    | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|----------------------|--------------|-----|---------|-------------|------|
| 1       | Heptadecane          |              | 240 | C17H36  | 000629-78-7 | 87   |
| 2       | 9-methylheptadecane  |              | 254 | C18H38  | 026741-18-4 | 86   |
| 3       | Eicosane, 10-methyl- |              | 296 | C21H44  | 054833-23-7 | 86   |
| 4       | Hexadecane           |              | 226 | C16H34  | 000544-76-3 | 86   |
| 5       | Tridecane, 7-propyl- |              | 226 | C16H34  | 055045-09-5 | 80   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

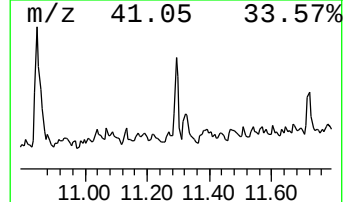
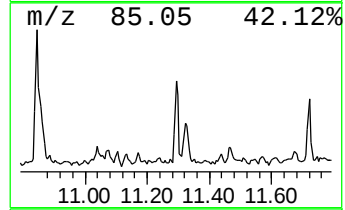
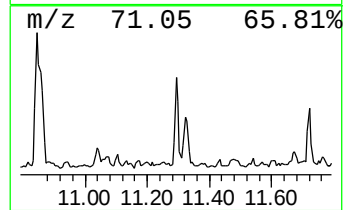
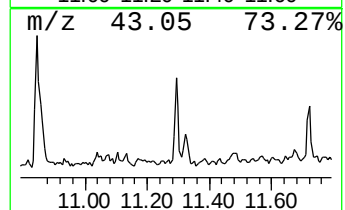
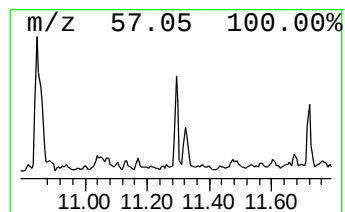
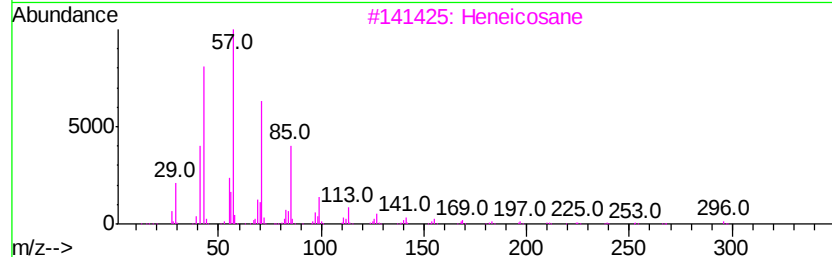
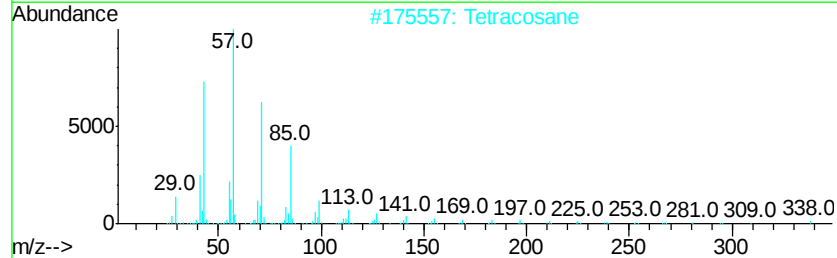
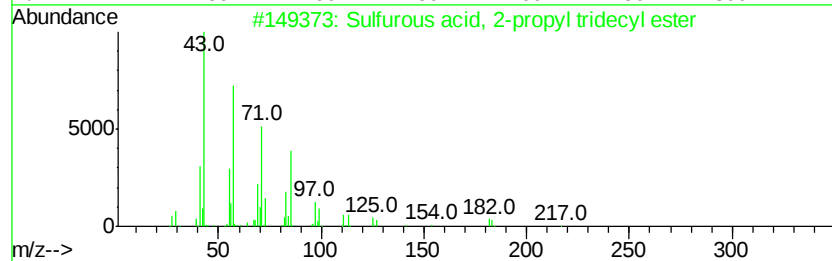
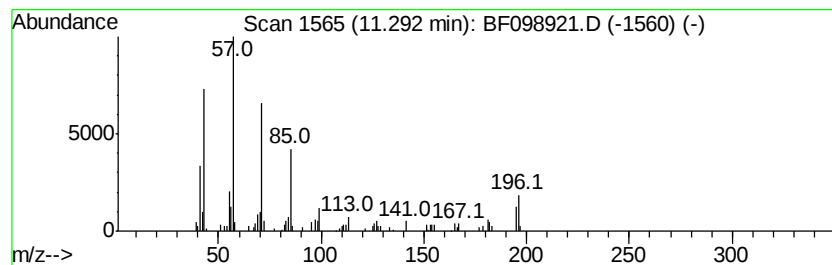
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Sulfurous acid, 2-propyl tr... Concentration Rank 11

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.29 | 2.15 ng | 86842 | Phenanthrene-d10 | 11.44 |

| Hit# | of | Tentative ID                         | MW  | MolForm   | CAS#         | Qual |
|------|----|--------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, 2-propyl tridecyl... | 306 | C16H34O3S | 1000309-12-4 | 64   |
| 2    |    | Tetracosane                          | 338 | C24H50    | 000646-31-1  | 62   |
| 3    |    | Heneicosane                          | 296 | C21H44    | 000629-94-7  | 62   |
| 4    |    | Heptadecane                          | 240 | C17H36    | 000629-78-7  | 62   |
| 5    |    | Octadecane                           | 254 | C18H38    | 000593-45-3  | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

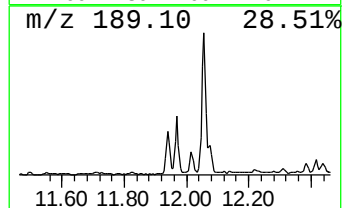
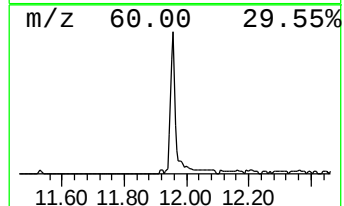
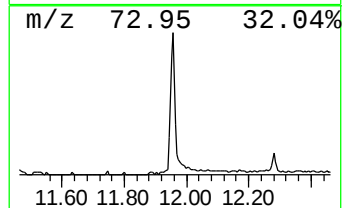
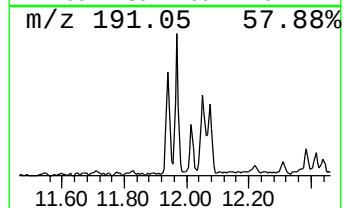
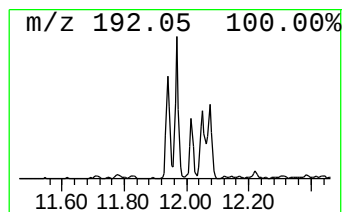
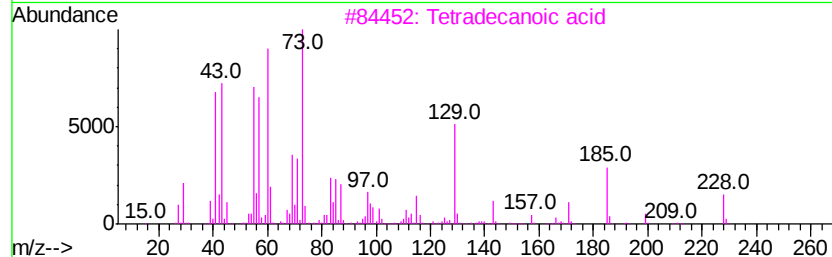
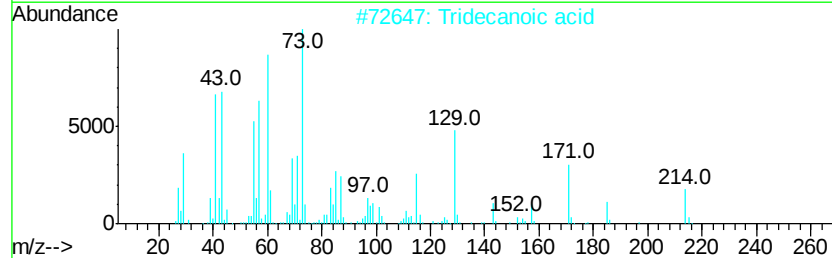
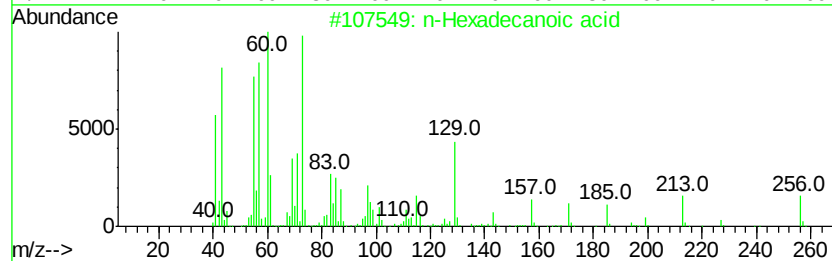
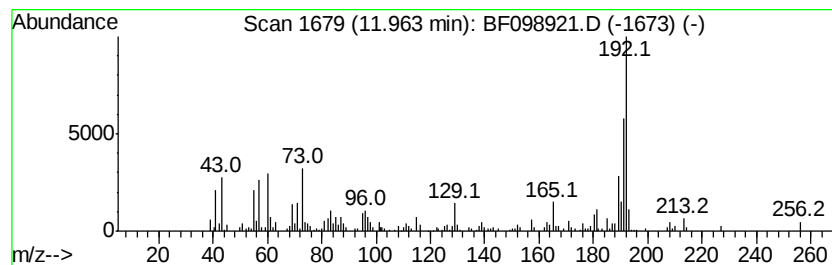
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.96 | 10.20 ng | 411621 | Phenanthrene-d10 | 11.44 |

| 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 | 93   |
| 4       |   | Pentadecanoic acid  | 242 | C15H30O2 | 001002-84-2 | 81   |
| 5       |   | n-Decanoic acid     | 172 | C10H20O2 | 000334-48-5 | 76   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

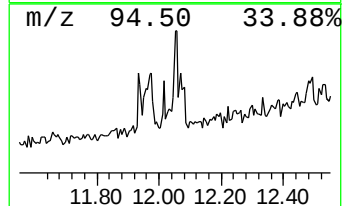
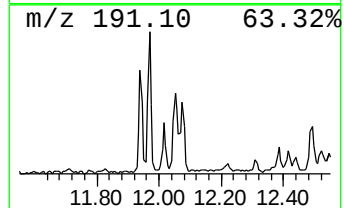
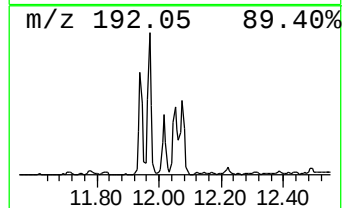
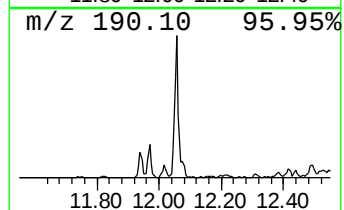
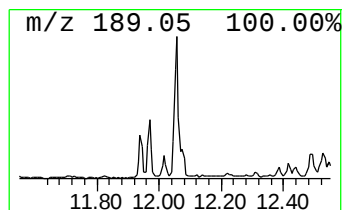
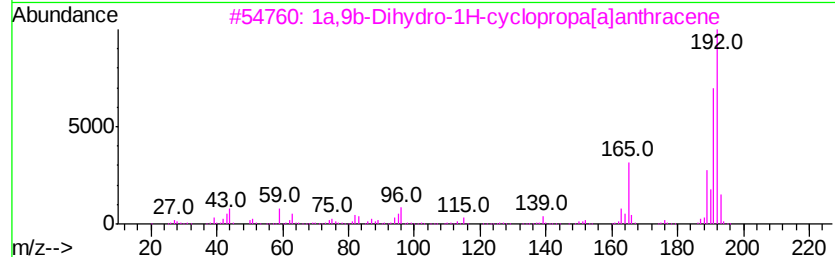
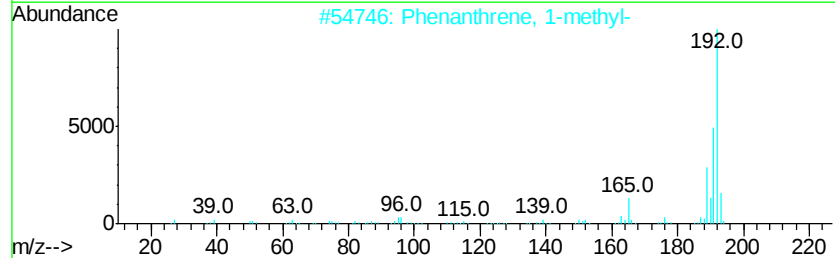
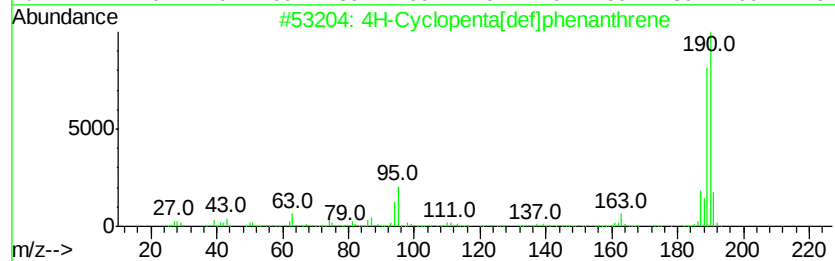
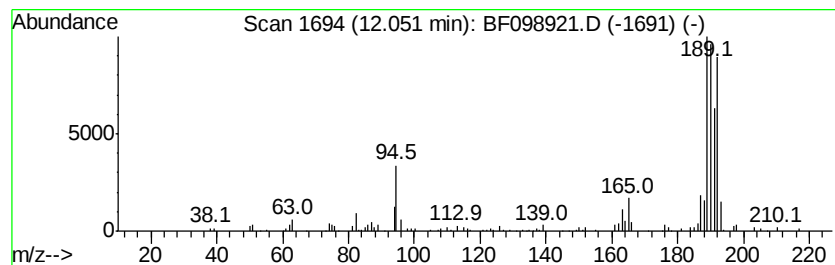
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.05 | 3.95 ng | 159258 | Phenanthrene-d10 | 11.44 |

| Hit# of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------------------|-----|---------|-------------|------|
| 1       |   | 4H-Cyclopenta[def]phenanthrene       | 190 | C15H10  | 000203-64-5 | 55   |
| 2       |   | Phenanthrene, 1-methyl-              | 192 | C15H12  | 000832-69-9 | 42   |
| 3       |   | 1a,9b-Dihydro-1H-cyclopropa[a]lan... | 192 | C15H12  | 006109-24-6 | 38   |
| 4       |   | Naphtho[2,3-b]norbornadiene          | 192 | C15H12  | 107426-38-0 | 38   |
| 5       |   | Anthracene, 2-methyl-                | 192 | C15H12  | 000613-12-7 | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

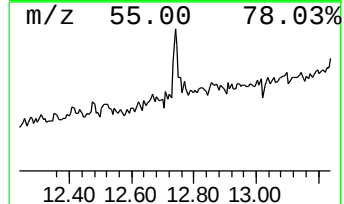
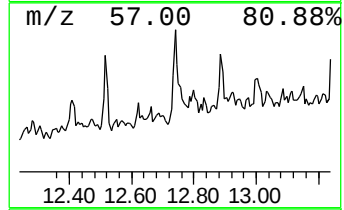
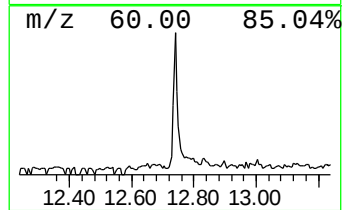
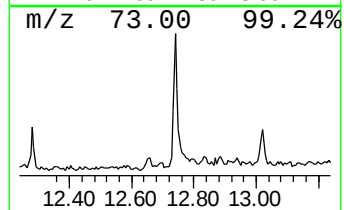
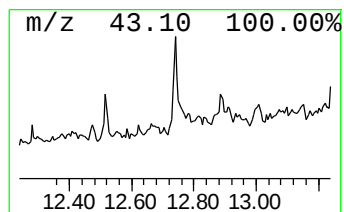
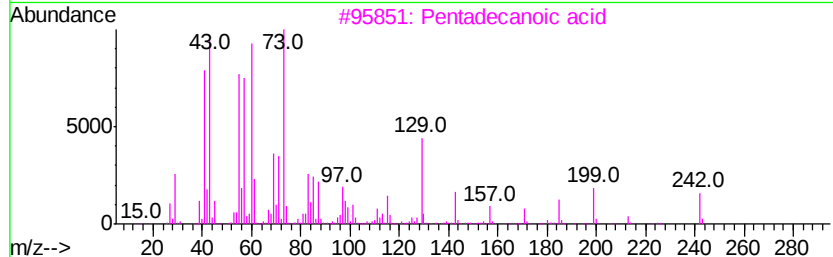
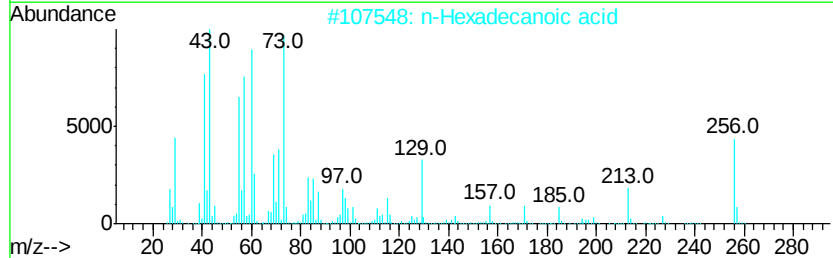
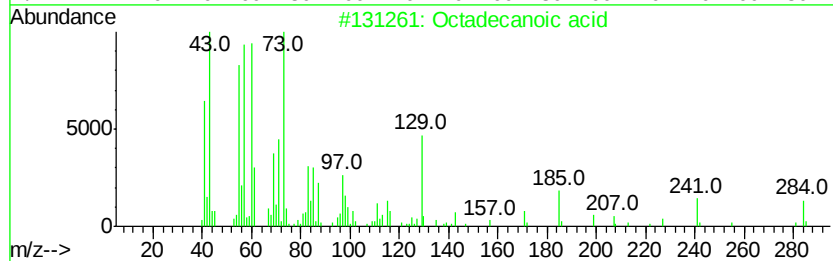
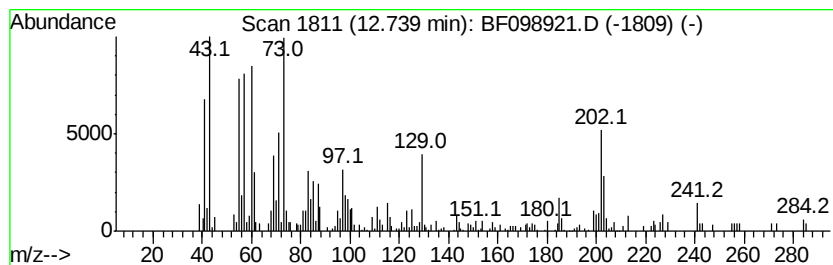
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 Octadecanoic acid Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.74 | 3.55 ng | 143065 | Phenanthrene-d10 | 11.44 |

| Hit# of 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|-----------|--------------------------------------|-----|----------|-------------|------|
| 1         | Octadecanoic acid                    | 284 | C18H36O2 | 000057-11-4 | 99   |
| 2         | n-Hexadecanoic acid                  | 256 | C16H32O2 | 000057-10-3 | 89   |
| 3         | Pentadecanoic acid                   | 242 | C15H30O2 | 001002-84-2 | 86   |
| 4         | Octadecanoic acid, 2-(2-hydroxyve... | 372 | C22H44O4 | 000106-11-6 | 74   |
| 5         | Dodecanoic acid                      | 200 | C12H24O2 | 000143-07-7 | 64   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF092817\  
Data File : BF098921.D  
Acq On : 28 Sep 2017 21:59  
Operator : SJ/JU  
Sample : I5457-09  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
LB-27(2.5-3)

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

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| Butane, 2-methoxy... | 2.22  | 2.9     | ng    | 134126   | 1                     | 6.92  | 927129 | 20.0 |
| 2-Pentanone, 4-hy... | 5.14  | 13.7    | ng    | 636181   | 1                     | 6.92  | 927129 | 20.0 |
| unknown6.69          | 6.69  | 57.7    | ng    | 2674350  | 1                     | 6.92  | 927129 | 20.0 |
| Heptadecane          | 10.85 | 3.9     | ng    | 155379   | 4                     | 11.44 | 807023 | 20.0 |
| Sulfurous acid, 2... | 11.29 | 2.1     | ng    | 86842    | 4                     | 11.44 | 807023 | 20.0 |
| n-Hexadecanoic acid  | 11.96 | 10.2    | ng    | 411621   | 4                     | 11.44 | 807023 | 20.0 |
| 4H-Cyclopenta[def... | 12.05 | 4.0     | ng    | 159258   | 4                     | 11.44 | 807023 | 20.0 |
| Octadecanoic acid    | 12.74 | 3.5     | ng    | 143065   | 4                     | 11.44 | 807023 | 20.0 |