

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070317\  
 Data File : BF096437.D  
 Acq On : 3 Jul 2017 13:24  
 Operator : SJ/MA  
 Sample : I3908-07 5X  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-59-0-1.5

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-BF070117.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         | 4.892       | 474           | 477         | 485          | rVB      | 132315         | 146157        | 15.03%          | 1.454%        |
| 2         | 5.322       | 547           | 550         | 556          | rBV      | 629229         | 595139        | 61.20%          | 5.921%        |
| 3         | 6.351       | 721           | 725         | 732          | rVB      | 844097         | 684201        | 70.36%          | 6.807%        |
| 4         | 6.486       | 744           | 748         | 752          | rBV      | 811839         | 654835        | 67.34%          | 6.515%        |
| 5         | 6.722       | 784           | 788         | 791          | rBV      | 913671         | 717314        | 73.76%          | 7.136%        |
| 6         | 6.875       | 811           | 814         | 818          | rVB      | 525355         | 466101        | 47.93%          | 4.637%        |
| 7         | 7.275       | 878           | 882         | 885          | rBV      | 480758         | 400276        | 41.16%          | 3.982%        |
| 8         | 8.004       | 1001          | 1006        | 1009         | rBV      | 1172347        | 972489        | 100.00%         | 9.675%        |
| 9         | 9.080       | 1185          | 1189        | 1192         | rBV      | 866807         | 699850        | 71.96%          | 6.962%        |
| 10        | 9.474       | 1253          | 1256        | 1258         | rBV      | 115097         | 100511        | 10.34%          | 1.000%        |
| 11        | 9.616       | 1275          | 1280        | 1283         | rBV4     | 13604          | 25462         | 2.62%           | 0.253%        |
| 12        | 9.657       | 1283          | 1287        | 1293         | rVB3     | 21019          | 37686         | 3.88%           | 0.375%        |
| 13        | 9.757       | 1300          | 1304        | 1307         | rBV      | 1070408        | 930759        | 95.71%          | 9.260%        |
| 14        | 9.963       | 1336          | 1339        | 1341         | rVB2     | 12185          | 11519         | 1.18%           | 0.115%        |
| 15        | 10.204      | 1377          | 1380        | 1382         | rVB      | 16303          | 14175         | 1.46%           | 0.141%        |
| 16        | 10.533      | 1433          | 1436        | 1440         | rBV      | 165658         | 147491        | 15.17%          | 1.467%        |
| 17        | 10.580      | 1441          | 1444        | 1450         | rVB      | 37957          | 35179         | 3.62%           | 0.350%        |
| 18        | 10.674      | 1457          | 1460        | 1466         | rBV      | 20762          | 25719         | 2.64%           | 0.256%        |
| 19        | 11.121      | 1531          | 1536        | 1539         | rBV3     | 14752          | 16732         | 1.72%           | 0.166%        |
| 20        | 11.233      | 1551          | 1555        | 1558         | rBV      | 886295         | 753616        | 77.49%          | 7.497%        |
| 21        | 11.257      | 1558          | 1559        | 1562         | rVB      | 84264          | 41927         | 4.31%           | 0.417%        |
| 22        | 11.304      | 1562          | 1567        | 1571         | rBV      | 35922          | 34090         | 3.51%           | 0.339%        |
| 23        | 11.463      | 1589          | 1594        | 1599         | rBV4     | 14306          | 21855         | 2.25%           | 0.217%        |
| 24        | 11.545      | 1604          | 1608        | 1615         | rVB4     | 9576           | 16043         | 1.65%           | 0.160%        |
| 25        | 11.763      | 1642          | 1645        | 1649         | rBV2     | 21087          | 24171         | 2.49%           | 0.240%        |
| 26        | 11.845      | 1656          | 1659        | 1662         | rBV3     | 18085          | 20874         | 2.15%           | 0.208%        |
| 27        | 12.221      | 1719          | 1723        | 1728         | rVB6     | 9057           | 14377         | 1.48%           | 0.143%        |
| 28        | 12.286      | 1728          | 1734        | 1736         | rBV5     | 15277          | 20602         | 2.12%           | 0.205%        |
| 29        | 12.439      | 1757          | 1760        | 1763         | rVB      | 98651          | 83469         | 8.58%           | 0.830%        |
| 30        | 12.668      | 1793          | 1799        | 1801         | rBV      | 83177          | 95505         | 9.82%           | 0.950%        |
| 31        | 12.715      | 1804          | 1807        | 1814         | rVB8     | 10940          | 22091         | 2.27%           | 0.220%        |
| 32        | 12.815      | 1821          | 1824        | 1830         | rVB      | 504655         | 422128        | 43.41%          | 4.200%        |
| 33        | 12.892      | 1833          | 1837        | 1839         | rBV5     | 8711           | 12030         | 1.24%           | 0.120%        |
| 34        | 13.062      | 1864          | 1866        | 1869         | rVB4     | 15701          | 15148         | 1.56%           | 0.151%        |

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Misc :  
ALS Vial : 8 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
G-59-0-1.5

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-BF070117.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 13.104 | 1869 | 1873 | 1874 | rBV3 | 14242  | 16130  | 1.66%  | 0.160% |
| 36 | 13.304 | 1904 | 1907 | 1910 | rVB  | 34652  | 27195  | 2.80%  | 0.271% |
| 37 | 13.368 | 1913 | 1918 | 1922 | rBV7 | 17377  | 38516  | 3.96%  | 0.383% |
| 38 | 13.609 | 1957 | 1959 | 1961 | rBV3 | 15632  | 14024  | 1.44%  | 0.140% |
| 39 | 13.721 | 1976 | 1978 | 1982 | rVB4 | 24529  | 28379  | 2.92%  | 0.282% |
| 40 | 13.862 | 1998 | 2002 | 2005 | rBV  | 672572 | 640796 | 65.89% | 6.375% |
| 41 | 13.886 | 2005 | 2006 | 2009 | rVB  | 45509  | 31127  | 3.20%  | 0.310% |
| 42 | 14.051 | 2032 | 2034 | 2036 | rBV2 | 14977  | 14797  | 1.52%  | 0.147% |
| 43 | 14.868 | 2171 | 2173 | 2178 | rVB  | 42326  | 61588  | 6.33%  | 0.613% |
| 44 | 14.968 | 2188 | 2190 | 2193 | rVB2 | 48451  | 48572  | 4.99%  | 0.483% |
| 45 | 15.209 | 2229 | 2231 | 2234 | rVB  | 36292  | 32323  | 3.32%  | 0.322% |
| 46 | 15.274 | 2237 | 2242 | 2246 | rBV  | 466366 | 533659 | 54.88% | 5.309% |
| 47 | 15.739 | 2317 | 2321 | 2325 | rBV  | 111531 | 189992 | 19.54% | 1.890% |
| 48 | 16.209 | 2397 | 2401 | 2404 | rBV4 | 34901  | 63213  | 6.50%  | 0.629% |
| 49 | 18.192 | 2736 | 2738 | 2739 | rBV  | 20996  | 15029  | 1.55%  | 0.150% |
| 50 | 18.921 | 2860 | 2862 | 2863 | rBV2 | 21152  | 16891  | 1.74%  | 0.168% |

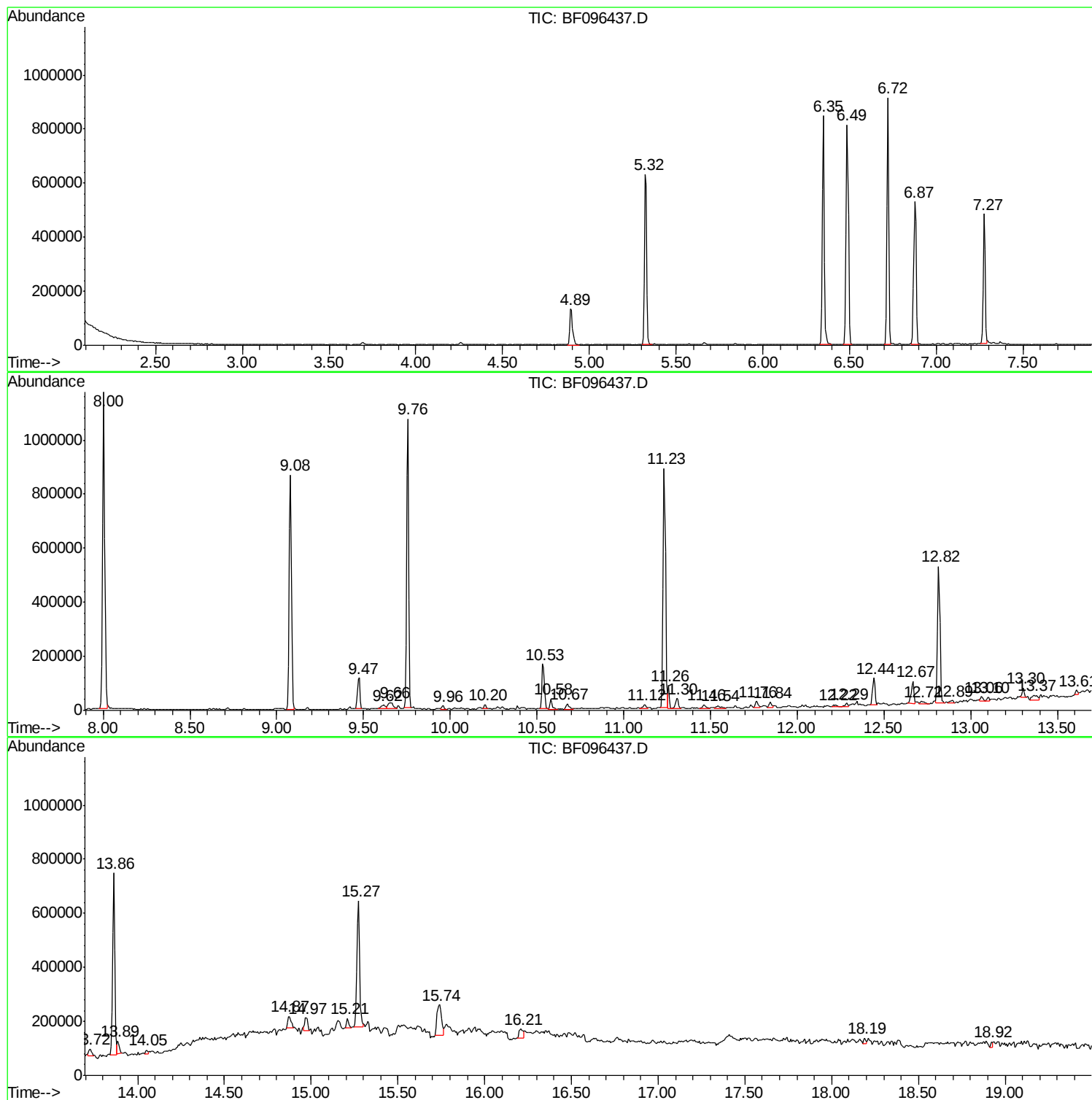
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ALS Vial : 8 Sample Multiplier: 1

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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.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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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
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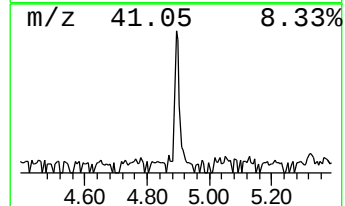
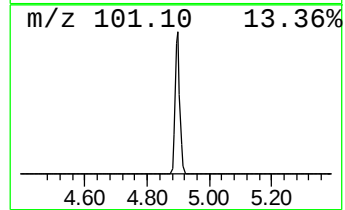
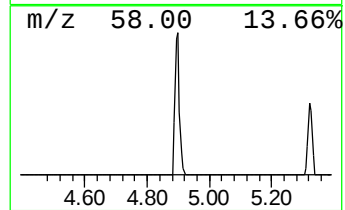
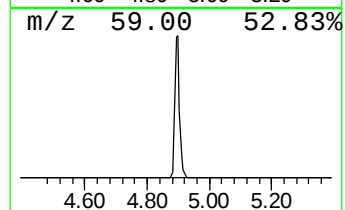
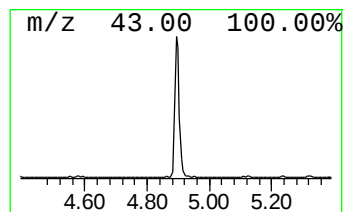
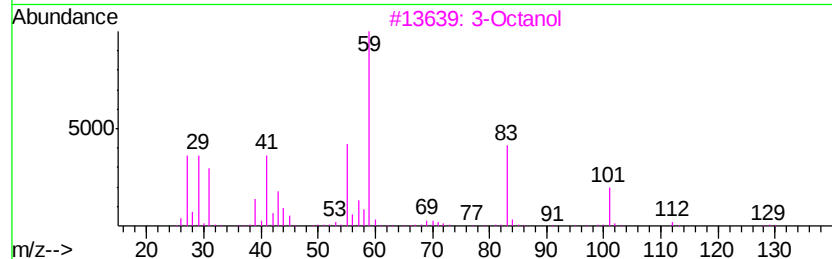
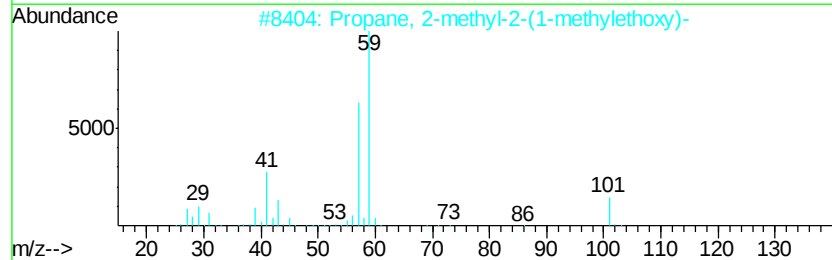
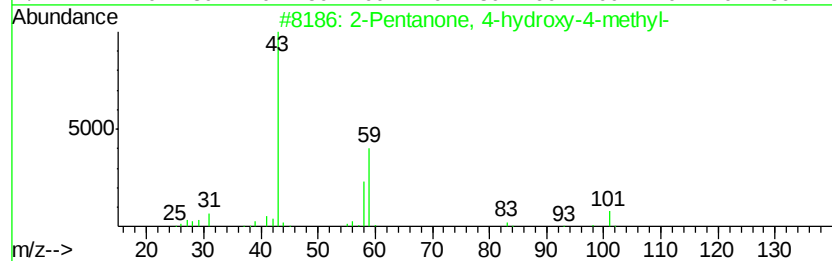
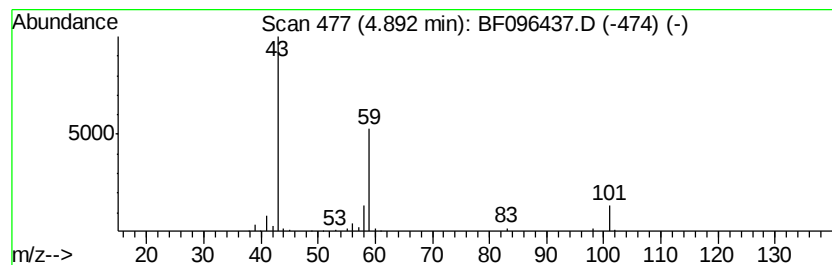
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.89 | 4.08 ng | 146157 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    |   | Propane, 2-methyl-2-(1-methyleth... | 116 | C7H16O  | 017348-59-3 | 36   |
| 3    |    |   | 3-Octanol                           | 130 | C8H18O  | 000589-98-0 | 33   |
| 4    |    |   | 2-Hexanol, 2-methyl-                | 116 | C7H16O  | 000625-23-0 | 33   |
| 5    |    |   | 3-Hexanol, 4-methyl-                | 116 | C7H16O  | 000615-29-2 | 28   |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

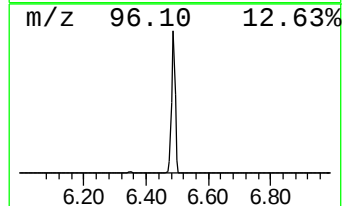
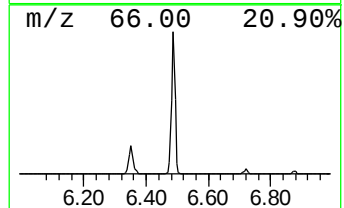
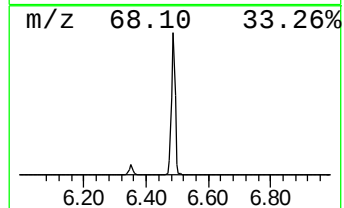
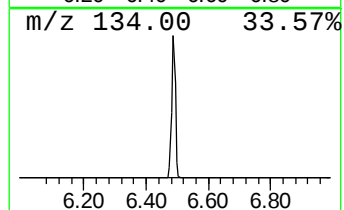
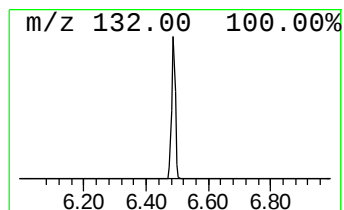
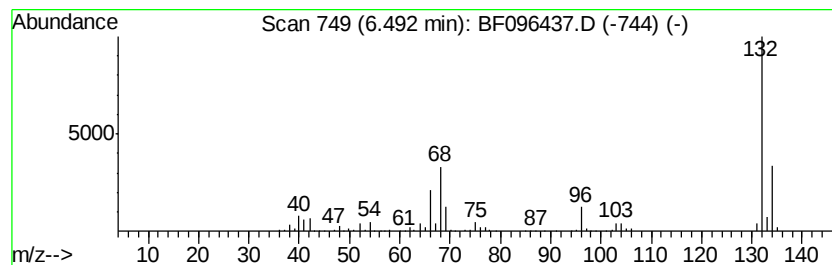
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.49 | 18.26 ng | 654835 | 1,4-Dichlorobenzene-d4 | 6.72 |

| 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  | 12   |
| 3    |    | 5-Aminoindole                    | 132 | C8H8N2    | 005192-03-0  | 12   |
| 4    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 5    |    | 5-Fluoro-2-chloropyrimidine      | 132 | C4H2ClFN2 | 062802-42-0  | 9    |



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

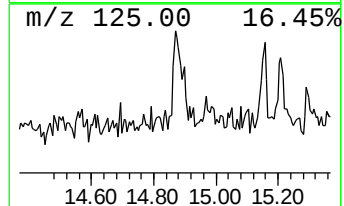
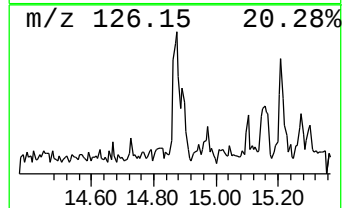
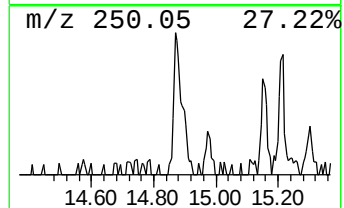
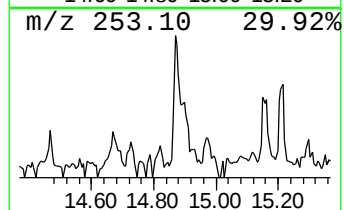
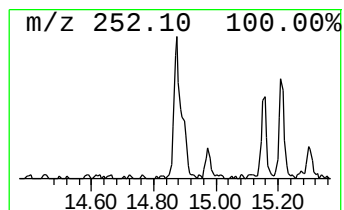
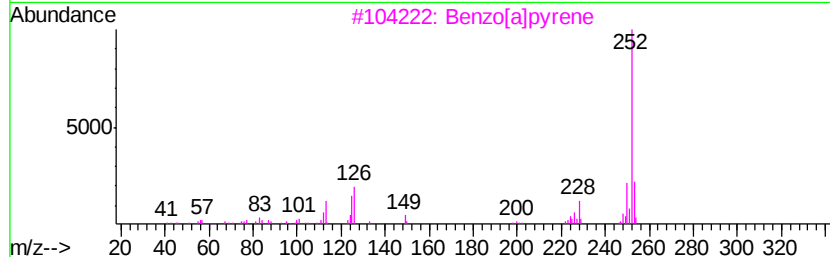
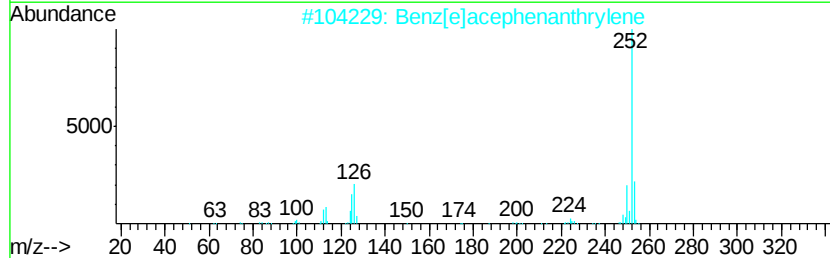
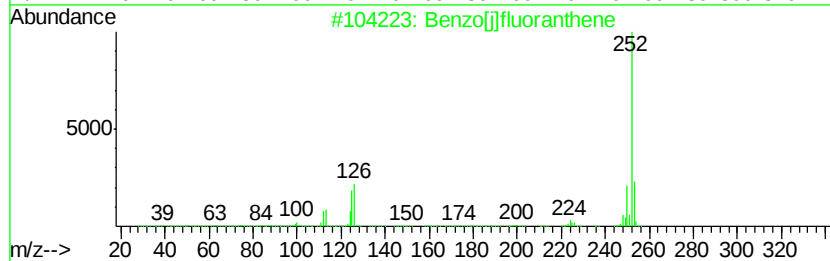
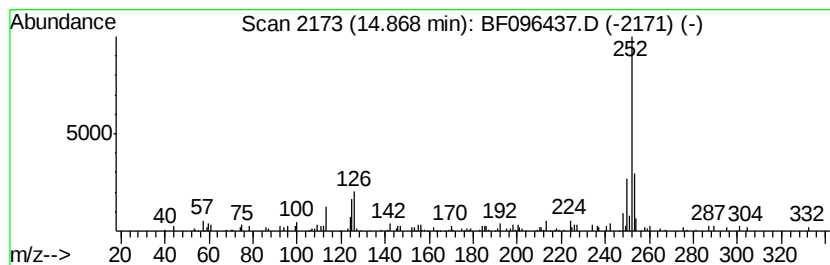
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Benzo[j]fluoranthene Concentration Rank 7

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 14.87 | 2.31 ng | 61588 | Perylene-d12     | 15.27 |

| Hit# of | 5 | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|---------|---|--------------------------|-----|---------|-------------|------|
| 1       |   | Benzo[j]fluoranthene     | 252 | C20H12  | 000205-82-3 | 89   |
| 2       |   | Benz[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 81   |
| 3       |   | Benzo[a]pyrene           | 252 | C20H12  | 000050-32-8 | 76   |
| 4       |   | Benzo[k]fluoranthene     | 252 | C20H12  | 000207-08-9 | 76   |
| 5       |   | Benzo[e]pyrene           | 252 | C20H12  | 000192-97-2 | 76   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

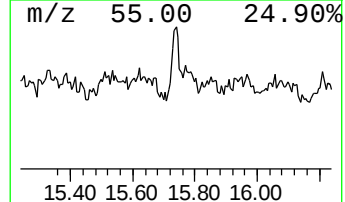
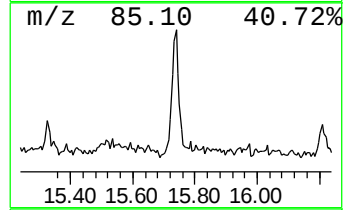
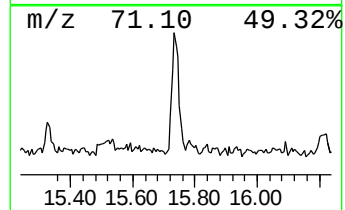
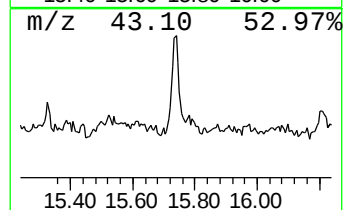
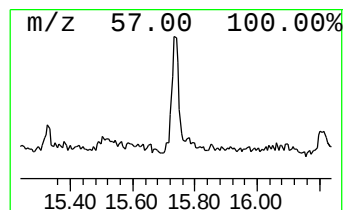
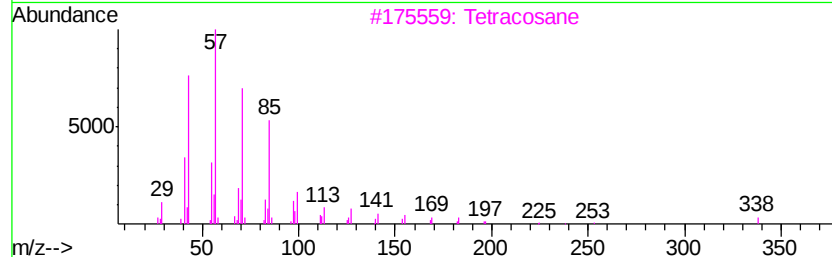
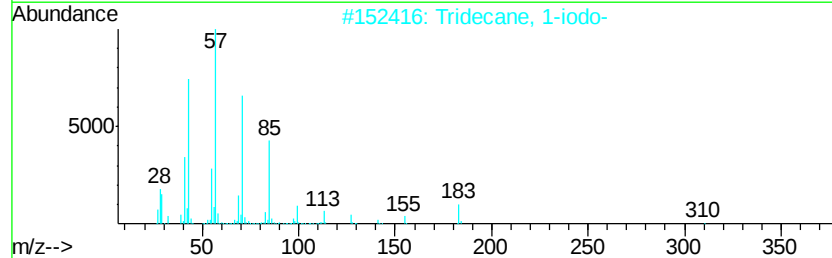
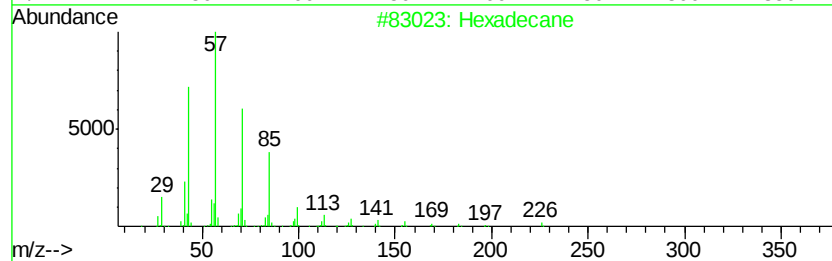
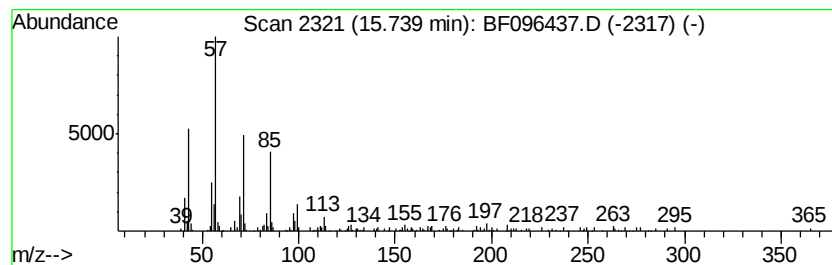
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Hexadecane Concentration Rank 3

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.74 | 7.12 ng | 189992 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Hexadecane                          | 226 | C16H34    | 000544-76-3  | 90   |
| 2    |    | Tridecane, 1-iodo-                  | 310 | C13H27I   | 035599-77-0  | 80   |
| 3    |    | Tetracosane                         | 338 | C24H50    | 000646-31-1  | 72   |
| 4    |    | 2-Thiopheneacetic acid, 4-tetrad... | 338 | C20H34O2S | 1000280-67-0 | 72   |
| 5    |    | Pentadecane                         | 212 | C15H32    | 000629-62-9  | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070317\  
Data File : BF096437.D  
Acq On : 3 Jul 2017 13:24  
Operator : SJ/MA  
Sample : I3908-07 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-59-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

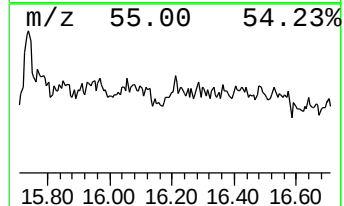
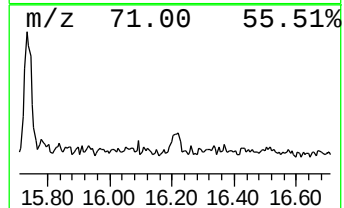
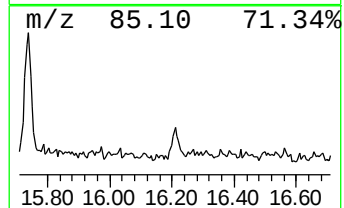
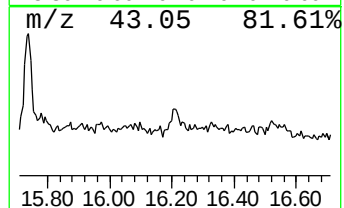
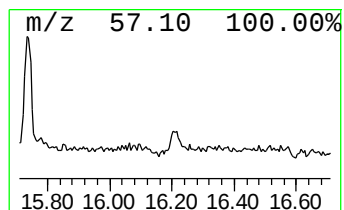
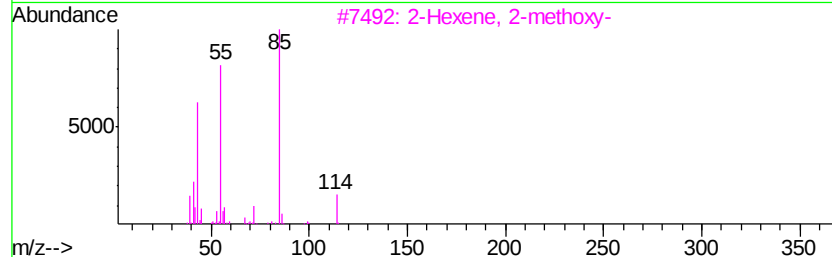
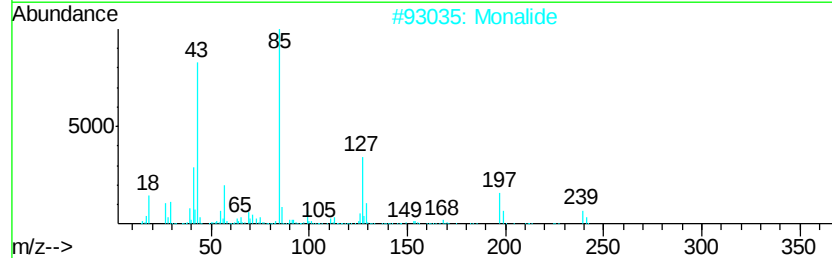
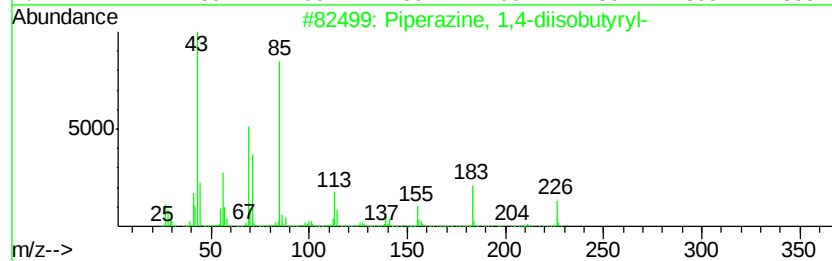
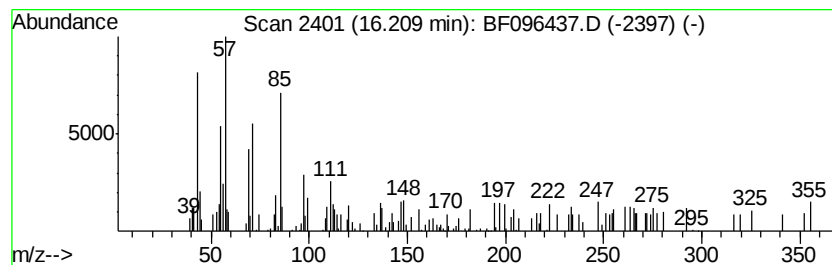
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown16.21 Concentration Rank 6

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 16.21 | 2.37 ng | 63213 | Perylene-d12     | 15.27 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | Piperazine, 1,4-diisobutyryl-       | 226 | C12H22N2O2 | 018940-58-4 | 35   |
| 2    |    | Monalide                            | 239 | C13H18ClNO | 007287-36-7 | 18   |
| 3    |    | 2-Hexene, 2-methoxy-                | 114 | C7H14O     | 061142-45-8 | 14   |
| 4    |    | Butanoic acid, 3-methyl-, 3-phen... | 218 | C14H18O2   | 000140-27-2 | 14   |
| 5    |    | Hexadecane                          | 226 | C16H34     | 000544-76-3 | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF070317\  
Data File : BF096437.D  
Acq On : 3 Jul 2017 13:24  
Operator : SJ/MA  
Sample : I3908-07 5X  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-59-0-1.5

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF070117.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... | 4.89  | 4.1     | ng    | 146157   | 1                     | 6.72  | 717314 | 20.0 |
| unknown6.49          | 6.49  | 18.3    | ng    | 654835   | 1                     | 6.72  | 717314 | 20.0 |
| Benzo[j]fluoranthene | 14.87 | 2.3     | ng    | 61588    | 6                     | 15.27 | 533659 | 20.0 |
| Hexadecane           | 15.74 | 7.1     | ng    | 189992   | 6                     | 15.27 | 533659 | 20.0 |
| unknown16.21         | 16.21 | 2.4     | ng    | 63213    | 6                     | 15.27 | 533659 | 20.0 |