

Data Path : Z:\HPCHEM1\BNA F\DATA\BF100117\  
 Data File : BF098988.D  
 Acq On : 1 Oct 2017 13:25  
 Operator : SJ/JU  
 Sample : I5487-07  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-02-092717-C

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<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         | 2.216       | 18            | 22          | 38           | rVB      | 145549         | 237756        | 7.44%           | 0.730%        |
| 2         | 5.134       | 514           | 518         | 529          | rVB      | 453605         | 577428        | 18.07%          | 1.774%        |
| 3         | 5.528       | 580           | 585         | 588          | rBV      | 2934275        | 2877991       | 90.09%          | 8.842%        |
| 4         | 6.528       | 750           | 755         | 758          | rBV      | 2555783        | 2909566       | 91.07%          | 8.939%        |
| 5         | 6.675       | 775           | 780         | 783          | rBV      | 3073491        | 2969623       | 92.95%          | 9.123%        |
| 6         | 6.904       | 815           | 819         | 822          | rBV      | 991270         | 827358        | 25.90%          | 2.542%        |
| 7         | 7.057       | 841           | 845         | 849          | rVB      | 2441809        | 2339748       | 73.24%          | 7.188%        |
| 8         | 7.463       | 909           | 914         | 917          | rBV      | 1794131        | 1874454       | 58.67%          | 5.759%        |
| 9         | 8.186       | 1033          | 1037        | 1040         | rBV      | 1244293        | 1086347       | 34.00%          | 3.337%        |
| 10        | 9.263       | 1214          | 1220        | 1223         | rBV      | 3180983        | 3194725       | 100.00%         | 9.815%        |
| 11        | 9.651       | 1282          | 1286        | 1293         | rVB      | 505893         | 449528        | 14.07%          | 1.381%        |
| 12        | 9.804       | 1309          | 1312        | 1315         | rBV      | 183587         | 160301        | 5.02%           | 0.492%        |
| 13        | 9.939       | 1330          | 1335        | 1339         | rBV      | 1180781        | 1048569       | 32.82%          | 3.221%        |
| 14        | 10.363      | 1404          | 1407        | 1410         | rVB      | 66040          | 53951         | 1.69%           | 0.166%        |
| 15        | 10.580      | 1438          | 1444        | 1446         | rBV3     | 26061          | 38716         | 1.21%           | 0.119%        |
| 16        | 10.727      | 1465          | 1469        | 1473         | rBV      | 1479849        | 1367837       | 42.82%          | 4.202%        |
| 17        | 10.833      | 1484          | 1487        | 1496         | rBV2     | 97578          | 132584        | 4.15%           | 0.407%        |
| 18        | 11.027      | 1516          | 1520        | 1524         | rBV4     | 28412          | 41653         | 1.30%           | 0.128%        |
| 19        | 11.280      | 1560          | 1563        | 1566         | rBV      | 68425          | 54803         | 1.72%           | 0.168%        |
| 20        | 11.310      | 1566          | 1568        | 1574         | rVB4     | 31913          | 45807         | 1.43%           | 0.141%        |
| 21        | 11.427      | 1584          | 1588        | 1591         | rBV      | 1048783        | 888963        | 27.83%          | 2.731%        |
| 22        | 11.451      | 1591          | 1592        | 1598         | rVV      | 176014         | 113309        | 3.55%           | 0.348%        |
| 23        | 11.504      | 1598          | 1601        | 1603         | rVV      | 91992          | 73489         | 2.30%           | 0.226%        |
| 24        | 11.533      | 1603          | 1606        | 1612         | rVV6     | 22581          | 36337         | 1.14%           | 0.112%        |
| 25        | 11.657      | 1621          | 1627        | 1630         | rBV3     | 21502          | 38122         | 1.19%           | 0.117%        |
| 26        | 11.710      | 1633          | 1636        | 1640         | rVB2     | 39056          | 38802         | 1.21%           | 0.119%        |
| 27        | 11.927      | 1670          | 1673        | 1675         | rBV      | 60013          | 55999         | 1.75%           | 0.172%        |
| 28        | 11.957      | 1675          | 1678        | 1681         | rVB      | 77980          | 73624         | 2.30%           | 0.226%        |
| 29        | 12.039      | 1689          | 1692        | 1695         | rBV2     | 85264          | 100640        | 3.15%           | 0.309%        |
| 30        | 12.063      | 1695          | 1696        | 1699         | rVB      | 56908          | 33925         | 1.06%           | 0.104%        |
| 31        | 12.474      | 1761          | 1766        | 1769         | rBV      | 81120          | 106313        | 3.33%           | 0.327%        |
| 32        | 12.510      | 1769          | 1772        | 1775         | rVV3     | 53671          | 82864         | 2.59%           | 0.255%        |
| 33        | 12.563      | 1778          | 1781        | 1786         | rBV3     | 47281          | 59216         | 1.85%           | 0.182%        |
| 34        | 12.639      | 1791          | 1794        | 1798         | rBV      | 335519         | 295537        | 9.25%           | 0.908%        |

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

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 12.733 | 1807 | 1810 | 1813 | rBV  | 61331   | 54023   | 1.69%  | 0.166% |
| 36 | 12.868 | 1828 | 1833 | 1840 | rBV  | 403606  | 460936  | 14.43% | 1.416% |
| 37 | 12.921 | 1840 | 1842 | 1846 | rVB2 | 36758   | 37769   | 1.18%  | 0.116% |
| 38 | 13.010 | 1853 | 1857 | 1861 | rBV  | 2080364 | 2054854 | 64.32% | 6.313% |
| 39 | 13.086 | 1866 | 1870 | 1877 | rBV6 | 65596   | 114099  | 3.57%  | 0.351% |
| 40 | 13.174 | 1882 | 1885 | 1887 | rBV3 | 55600   | 78990   | 2.47%  | 0.243% |
| 41 | 13.198 | 1887 | 1889 | 1892 | rVB  | 81525   | 73073   | 2.29%  | 0.224% |
| 42 | 13.233 | 1892 | 1895 | 1898 | rBV4 | 24968   | 36140   | 1.13%  | 0.111% |
| 43 | 13.263 | 1898 | 1900 | 1903 | rVB  | 55918   | 41715   | 1.31%  | 0.128% |
| 44 | 13.304 | 1903 | 1907 | 1910 | rBV2 | 86750   | 93580   | 2.93%  | 0.287% |
| 45 | 13.398 | 1920 | 1923 | 1925 | rVB  | 60446   | 50322   | 1.58%  | 0.155% |
| 46 | 13.427 | 1925 | 1928 | 1931 | rBV  | 56779   | 53985   | 1.69%  | 0.166% |
| 47 | 13.704 | 1972 | 1975 | 1979 | rVB  | 60319   | 62718   | 1.96%  | 0.193% |
| 48 | 13.845 | 1997 | 1999 | 2001 | rVB  | 44977   | 32717   | 1.02%  | 0.101% |
| 49 | 13.868 | 2001 | 2003 | 2005 | rBV  | 52275   | 53401   | 1.67%  | 0.164% |
| 50 | 13.898 | 2005 | 2008 | 2016 | rVB3 | 143558  | 200903  | 6.29%  | 0.617% |
| 51 | 14.068 | 2032 | 2037 | 2040 | rBV2 | 918598  | 1095378 | 34.29% | 3.365% |
| 52 | 14.092 | 2040 | 2041 | 2048 | rVB  | 276349  | 216334  | 6.77%  | 0.665% |
| 53 | 14.215 | 2059 | 2062 | 2067 | rBV4 | 60540   | 87005   | 2.72%  | 0.267% |
| 54 | 14.451 | 2100 | 2102 | 2106 | rVB  | 90358   | 88047   | 2.76%  | 0.270% |
| 55 | 14.486 | 2106 | 2108 | 2111 | rVB  | 62656   | 52333   | 1.64%  | 0.161% |
| 56 | 14.527 | 2112 | 2115 | 2121 | rBV6 | 68577   | 134706  | 4.22%  | 0.414% |
| 57 | 14.580 | 2121 | 2124 | 2126 | rBV  | 69218   | 66170   | 2.07%  | 0.203% |
| 58 | 15.121 | 2212 | 2216 | 2219 | rBV  | 390223  | 570797  | 17.87% | 1.754% |
| 59 | 15.180 | 2223 | 2226 | 2229 | rVV2 | 61285   | 74329   | 2.33%  | 0.228% |
| 60 | 15.233 | 2232 | 2235 | 2238 | rVB  | 105447  | 110015  | 3.44%  | 0.338% |
| 61 | 15.433 | 2265 | 2269 | 2274 | rVB  | 248639  | 312343  | 9.78%  | 0.960% |
| 62 | 15.498 | 2276 | 2280 | 2286 | rVB  | 368149  | 454628  | 14.23% | 1.397% |
| 63 | 15.562 | 2286 | 2291 | 2295 | rBV  | 642299  | 849913  | 26.60% | 2.611% |
| 64 | 17.068 | 2542 | 2547 | 2554 | rVB2 | 184108  | 370559  | 11.60% | 1.138% |
| 65 | 17.527 | 2620 | 2625 | 2632 | rVB  | 141263  | 282486  | 8.84%  | 0.868% |

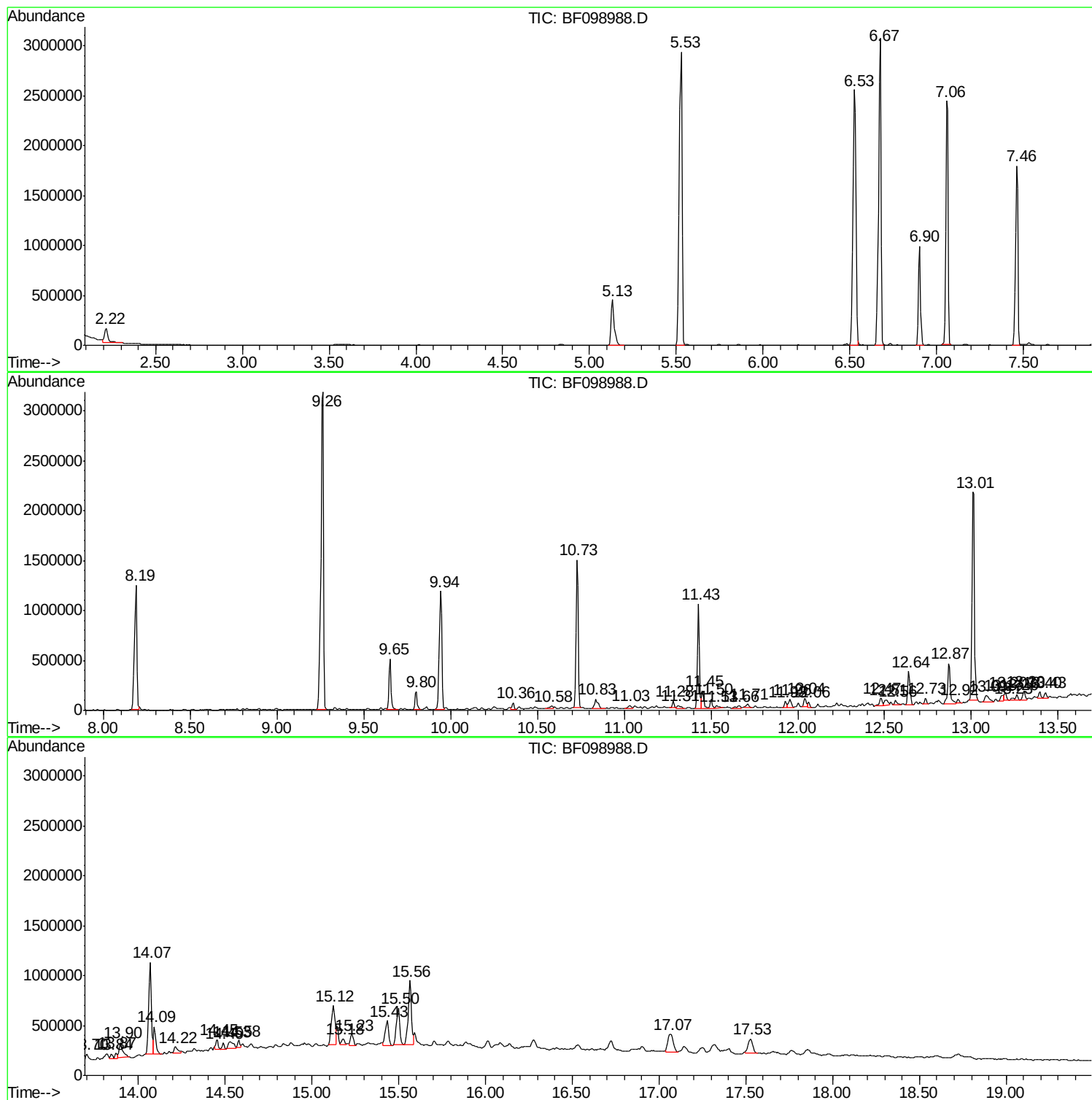
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BNA\_F  
ClientSampled :  
CL-02-092717-C

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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CL-02-092717-C

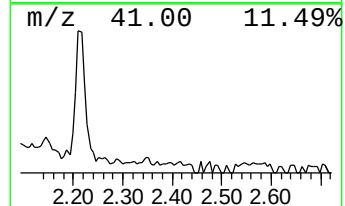
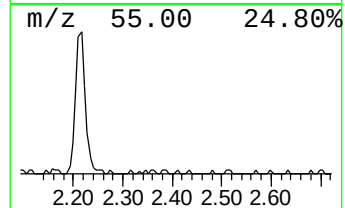
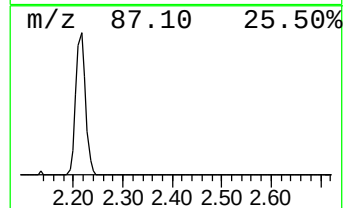
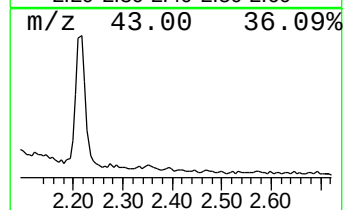
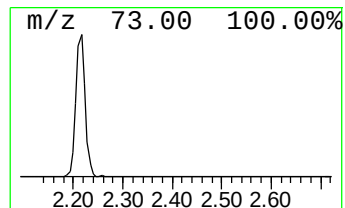
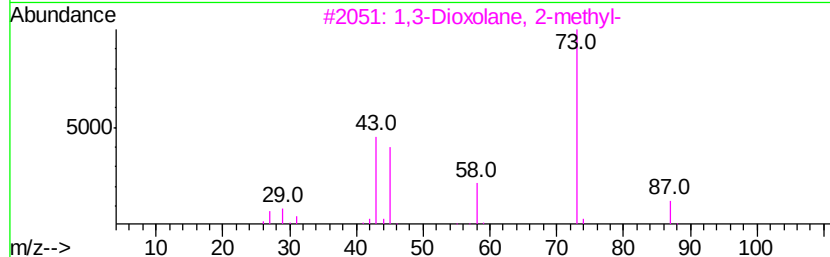
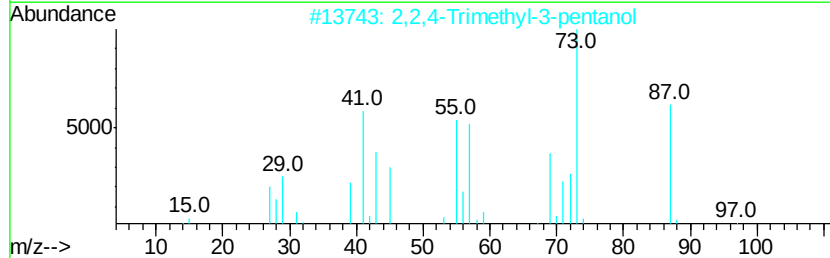
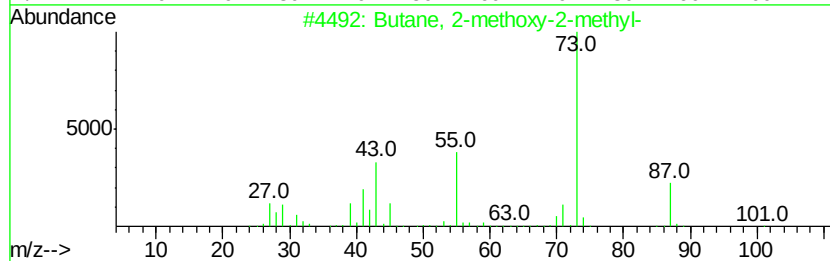
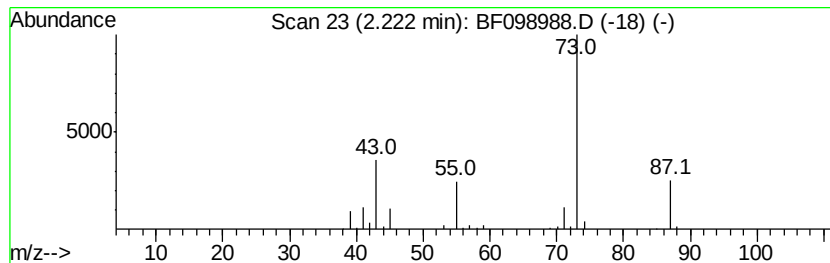
Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF092317.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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 5

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 2.22 | 5.75 ng | 237756 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | 2,2,4-Trimethyl-3-pentanol  | 130 | C8H18O  | 005162-48-1 | 40   |
| 3    |    | 1,3-Dioxolane, 2-methyl-    | 88  | C4H8O2  | 000497-26-7 | 37   |
| 4    |    | 2-Methyl-5-hexen-3-ol       | 114 | C7H14O  | 032815-70-6 | 37   |
| 5    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 17   |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF092317.M  
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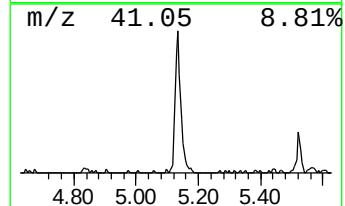
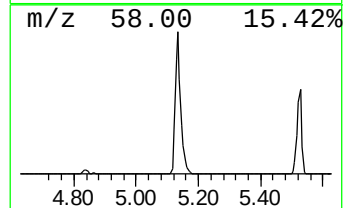
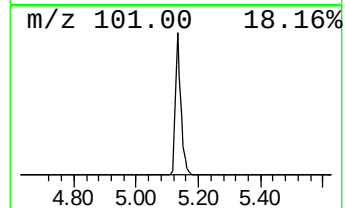
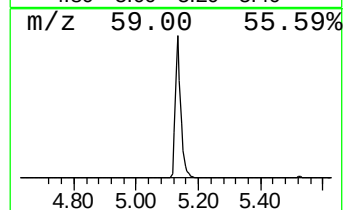
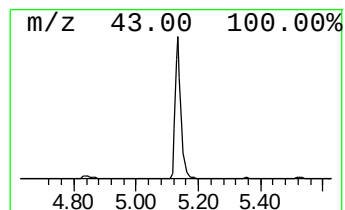
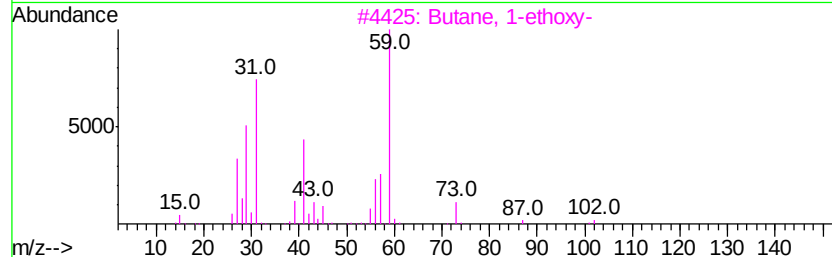
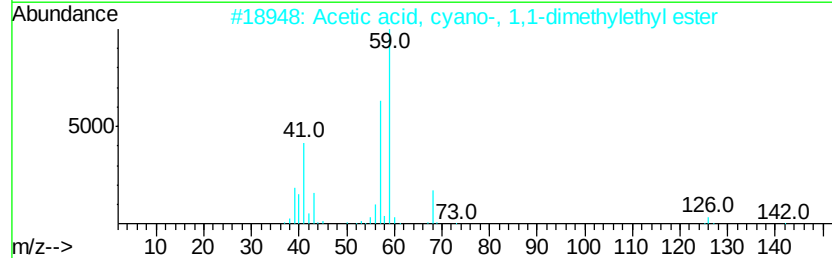
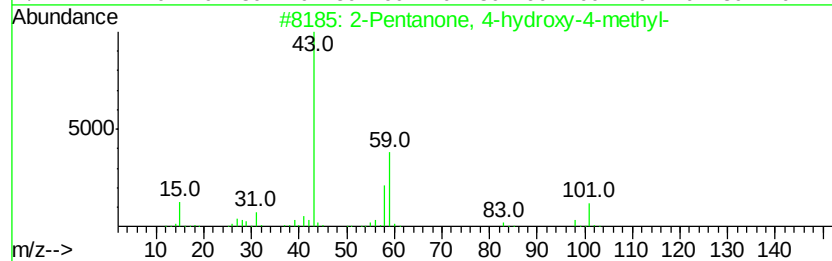
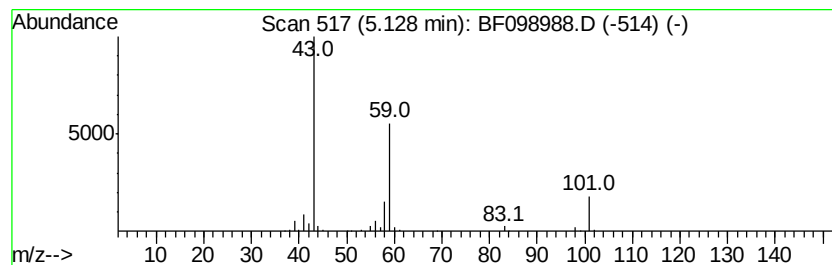
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 5.13 | 13.96 ng | 577428 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 53   |
| 2    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 3    |    | Butane, 1-ethoxy-                    | 102 | C6H14O   | 000628-81-9 | 9    |
| 4    |    | Morpholine, 4-methyl-                | 101 | C5H11NO  | 000109-02-4 | 9    |
| 5    |    | 2-Hexanol, 2-methyl-                 | 116 | C7H16O   | 000625-23-0 | 9    |



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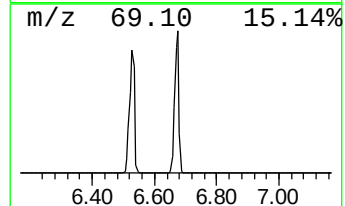
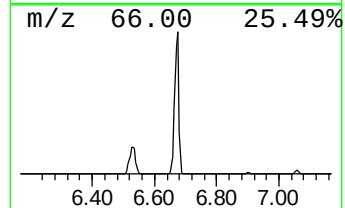
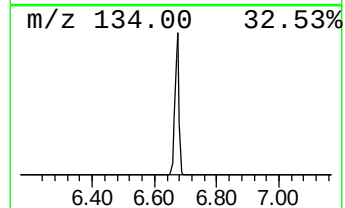
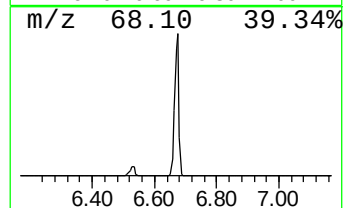
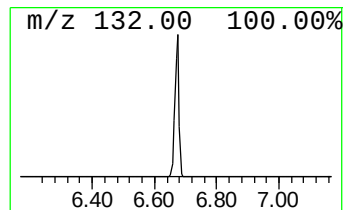
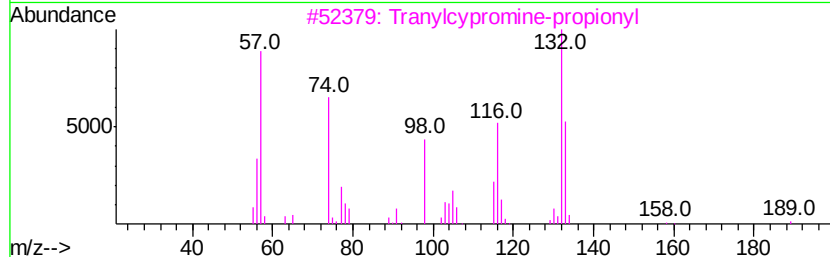
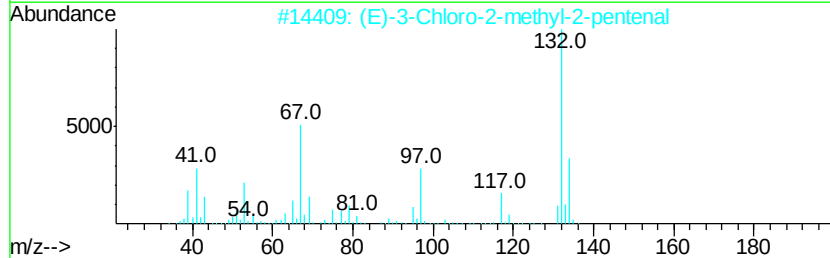
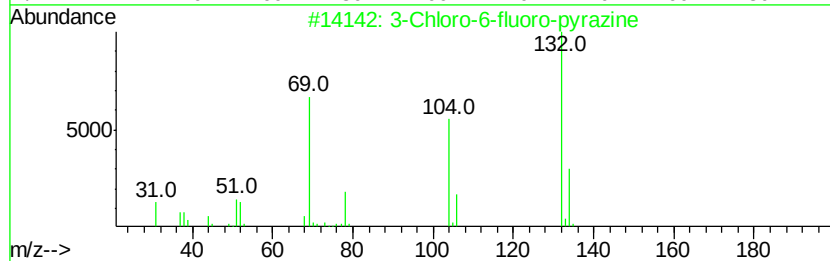
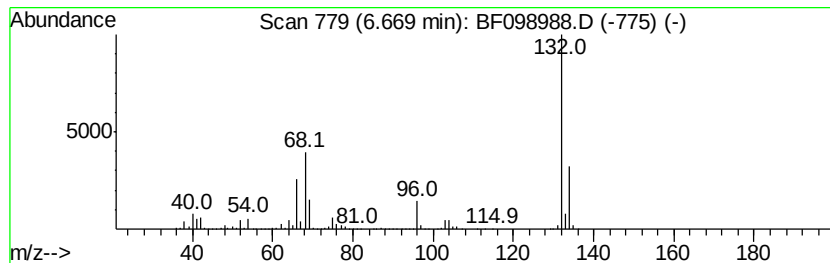
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TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown6.67 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.67 | 71.79 ng | 2969620 | 1,4-Dichlorobenzene-d4 | 6.90 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 17   |
| 3    |    | Tranvlcypropine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 12   |
| 4    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 5    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |



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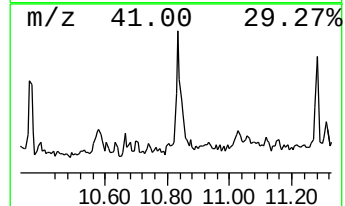
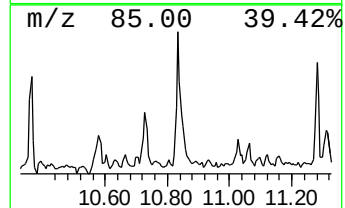
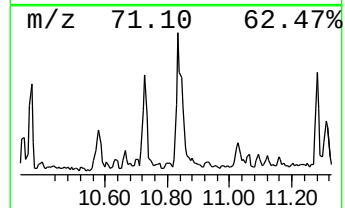
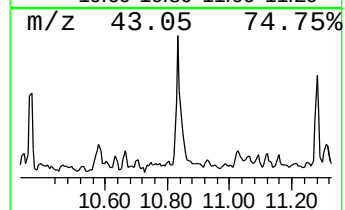
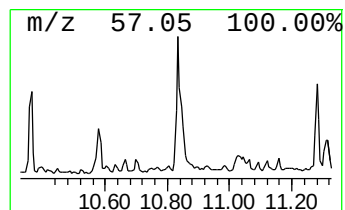
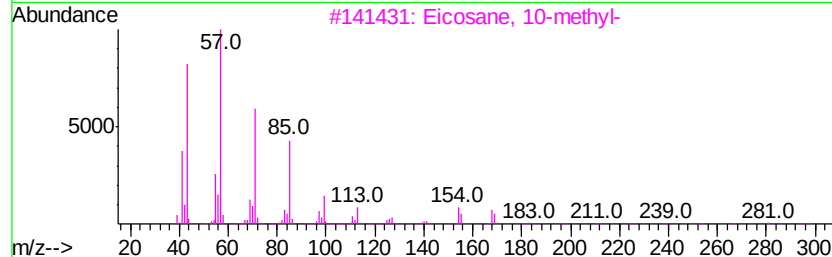
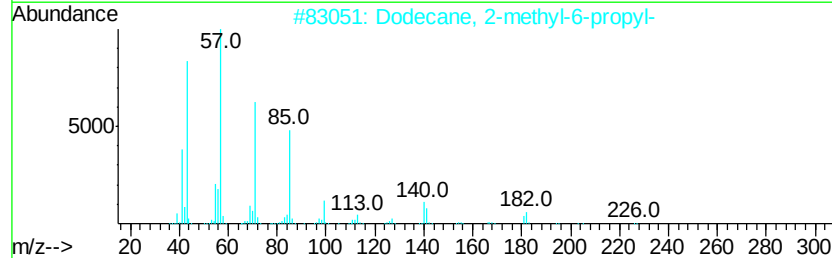
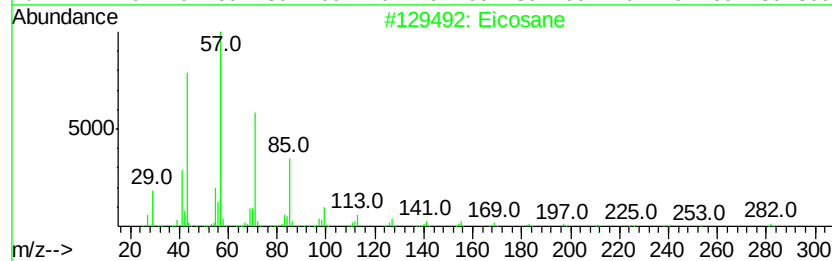
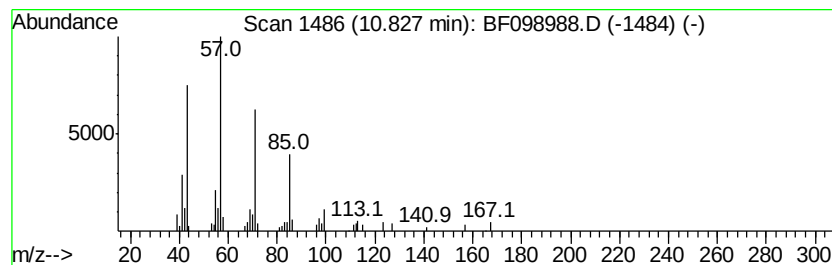
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Eicosane Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.83 | 2.98 ng | 132584 | Phenanthrene-d10 | 11.43 |

| Hit# of | 5                            | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|------------------------------|--------------|-----|---------|-------------|------|
| 1       | Eicosane                     |              | 282 | C20H42  | 000112-95-8 | 90   |
| 2       | Dodecane, 2-methyl-6-propyl- |              | 226 | C16H34  | 055045-08-4 | 90   |
| 3       | Eicosane, 10-methyl-         |              | 296 | C21H44  | 054833-23-7 | 90   |
| 4       | Heptacosane                  |              | 380 | C27H56  | 000593-49-7 | 86   |
| 5       | Hexadecane                   |              | 226 | C16H34  | 000544-76-3 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

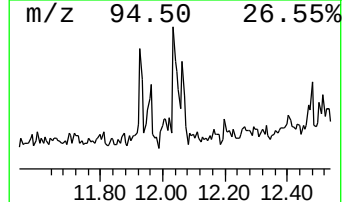
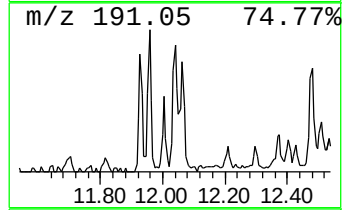
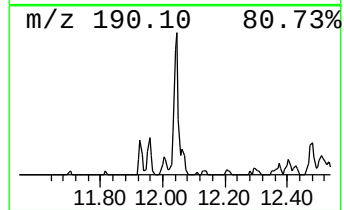
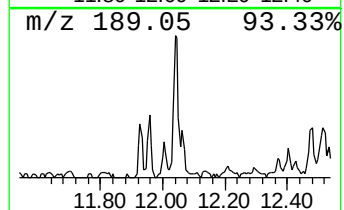
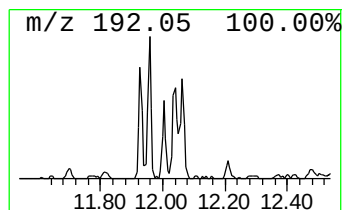
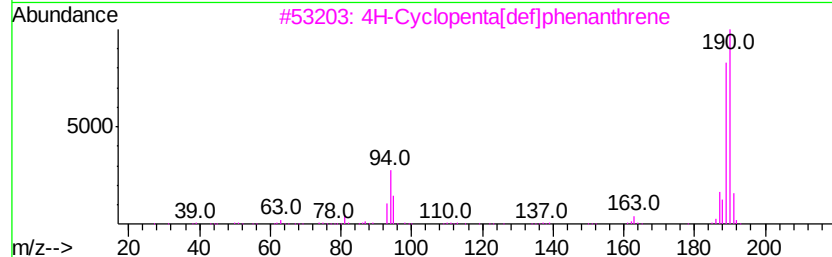
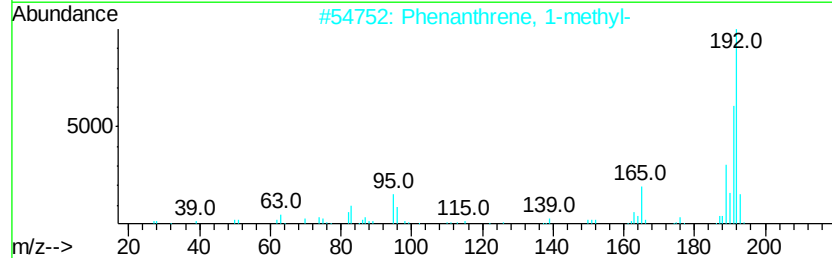
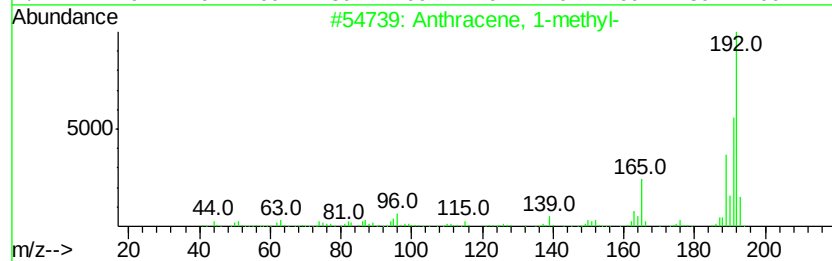
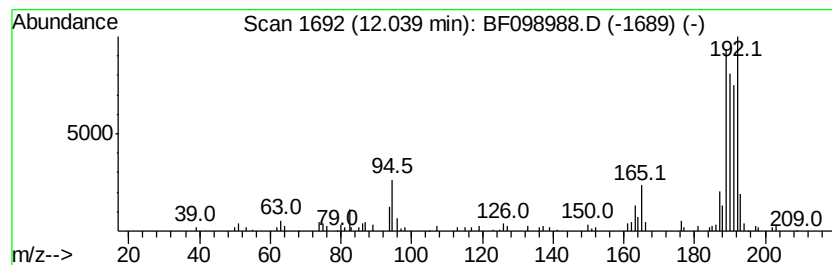
Instrument :  
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ClientSampleId :  
CL-02-092717-C

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 unknown12.04 Concentration Rank 11

| R.T.    | EstConc | Area                           | Relative to ISTD |         | R.T.        |      |
|---------|---------|--------------------------------|------------------|---------|-------------|------|
| 12.04   | 2.26 ng | 100640                         | Phenanthrene-d10 |         | 11.43       |      |
| Hit# of | 5       | Tentative ID                   | MW               | MolForm | CAS#        | Qual |
| 1       |         | Anthracene, 1-methyl-          | 192              | C15H12  | 000610-48-0 | 46   |
| 2       |         | Phenanthrene, 1-methyl-        | 192              | C15H12  | 000832-69-9 | 46   |
| 3       |         | 4H-Cyclopenta[def]phenanthrene | 190              | C15H10  | 000203-64-5 | 38   |
| 4       |         | Phenanthrene, 4-methyl-        | 192              | C15H12  | 000832-64-4 | 38   |
| 5       |         | 1H-Indene, 2-phenyl-           | 192              | C15H12  | 004505-48-0 | 38   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092717-C

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

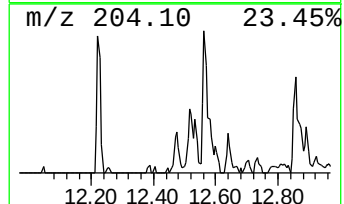
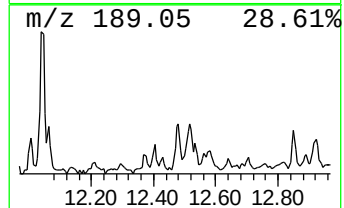
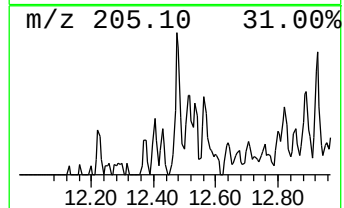
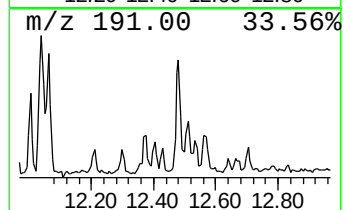
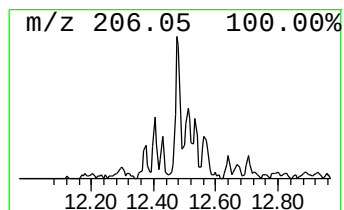
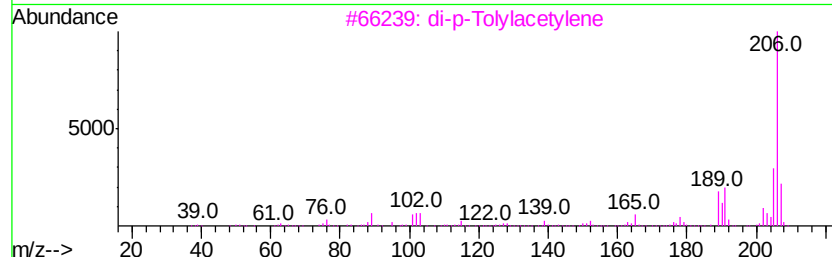
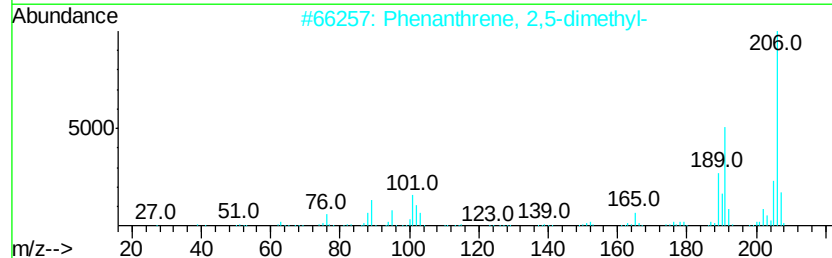
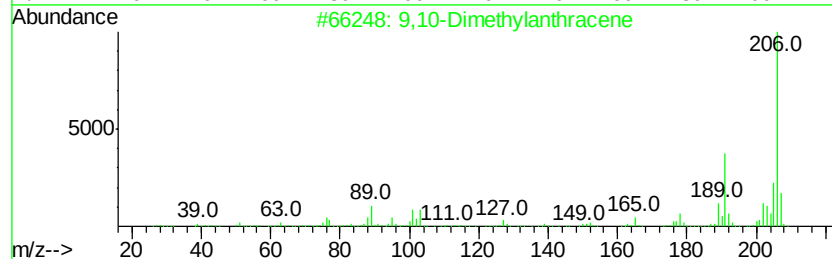
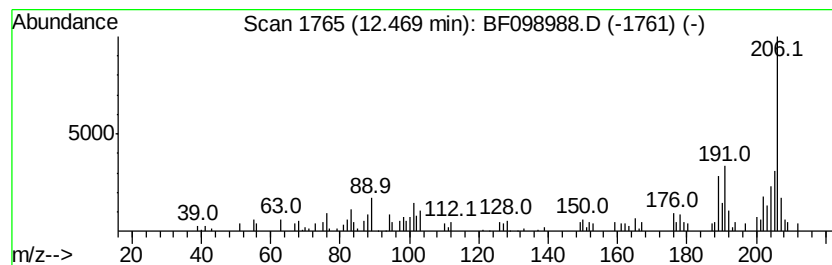
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 9,10-Dimethylantracene Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.47 | 2.39 ng | 106313 | Phenanthrene-d10 | 11.43 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Dimethylantracene              | 206 | C16H14  | 000781-43-1 | 96   |
| 2    |    | Phenanthrene, 2,5-dimethyl-         | 206 | C16H14  | 003674-66-6 | 93   |
| 3    |    | di-p-Tolylacetylene                 | 206 | C16H14  | 002789-88-0 | 89   |
| 4    |    | [14]Annulene, 1,6:8,13-bis(metha... | 206 | C16H14  | 085385-68-8 | 87   |
| 5    |    | Naphthalene, 1,2-dihydro-4-phenyl-  | 206 | C16H14  | 007469-40-1 | 83   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

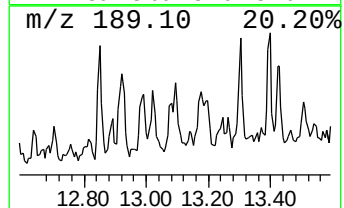
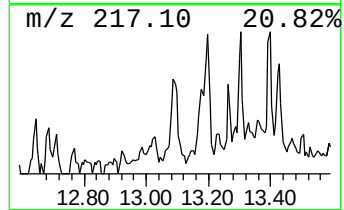
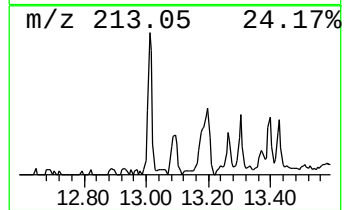
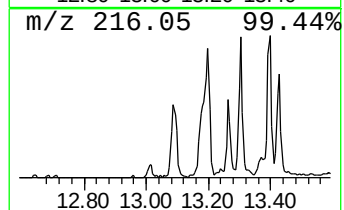
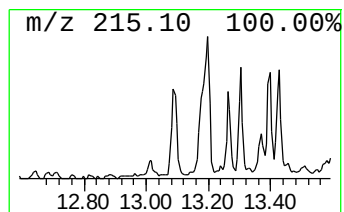
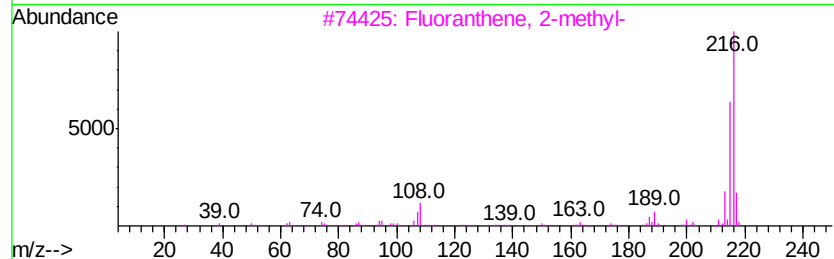
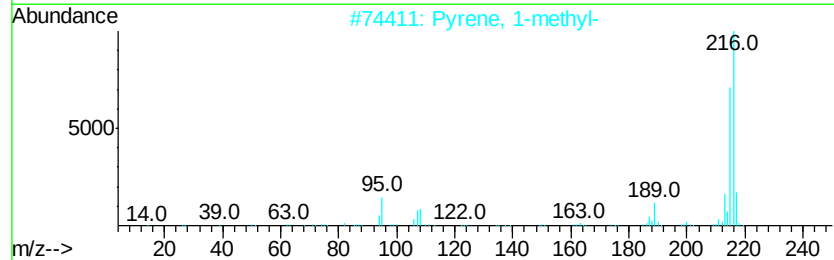
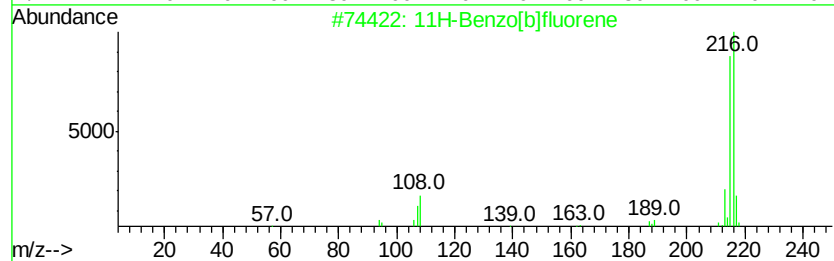
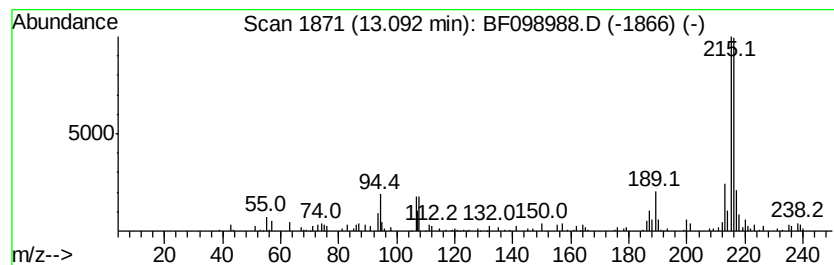
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ClientSampleId :  
CL-02-092717-C

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 8 11H-Benzo[b]fluorene Concentration Rank 12

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 13.09     | 2.08 ng                 | 114099 | Chrysene-d12     | 14.07       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | 11H-Benzo[blfluorene    | 216    | C17H12           | 000243-17-4 | 96   |
| 2         | Pyrene, 1-methyl-       | 216    | C17H12           | 002381-21-7 | 93   |
| 3         | Fluoranthene, 2-methyl- | 216    | C17H12           | 033543-31-6 | 90   |
| 4         | 11H-Benzo[alfluorene    | 216    | C17H12           | 000238-84-6 | 87   |
| 5         | Pyrene, 2-methyl-       | 216    | C17H12           | 003442-78-2 | 76   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

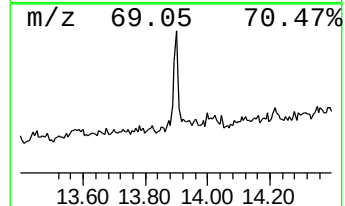
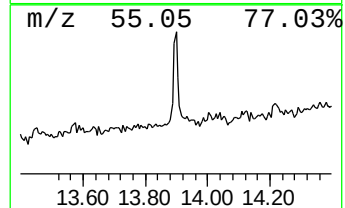
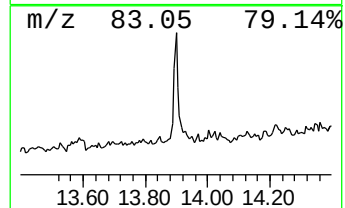
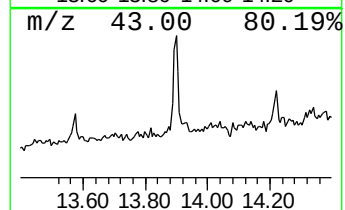
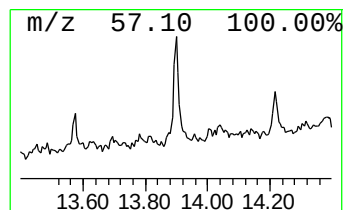
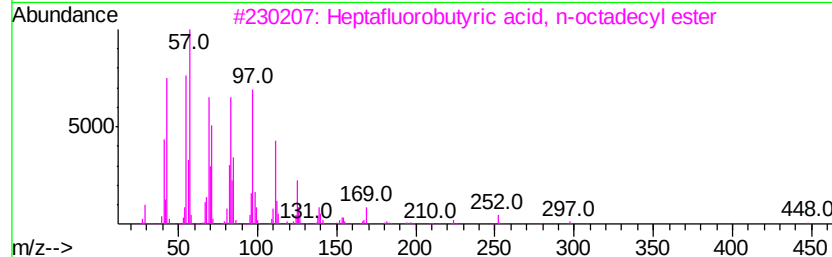
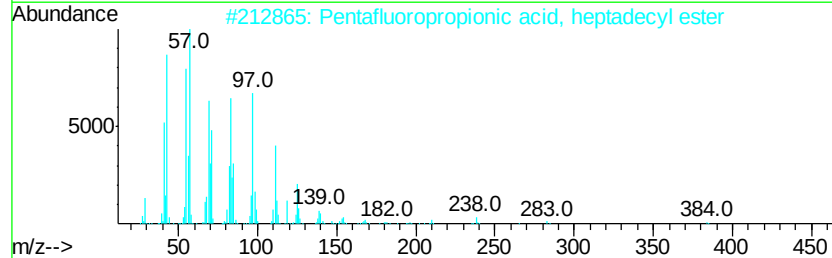
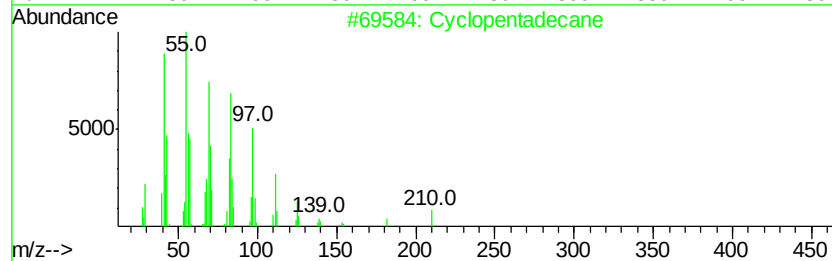
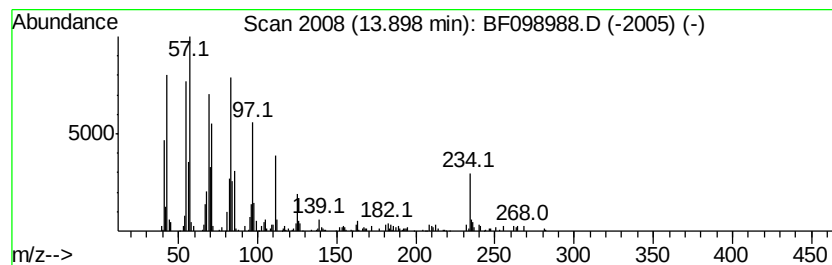
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ClientSampleId :  
CL-02-092717-C

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 Cyclopentadecane Concentration Rank 6

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.           |
|---------|---------|-------------------------------------|------------------|----------------|
| 13.90   | 3.67 ng | 200903                              | Chrysene-d12     | 14.07          |
| Hit# of | 5       | Tentative ID                        | MW MolForm       | CAS# Qual      |
| 1       |         | Cyclopentadecane                    | 210 C15H30       | 000295-48-7 95 |
| 2       |         | Pentafluoropropionic acid, hepta... | 402 C20H35F5O2   | 959218-78-1 87 |
| 3       |         | Heptafluorobutyric acid, n-octad... | 466 C22H37F7O2   | 000400-57-7 87 |
| 4       |         | Heptafluorobutyric acid, hexadec... | 438 C20H33F7O2   | 006385-15-5 87 |
| 5       |         | Octadecyl trifluoroacetate          | 366 C20H37F3O2   | 079392-43-1 83 |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

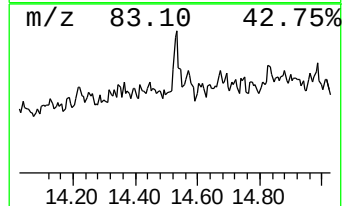
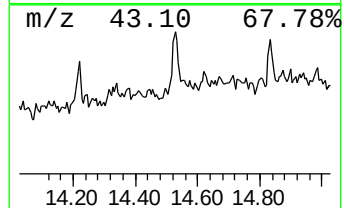
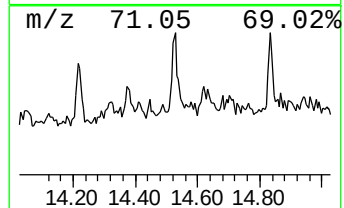
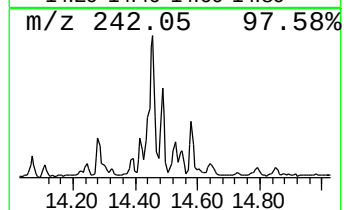
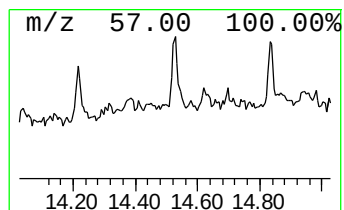
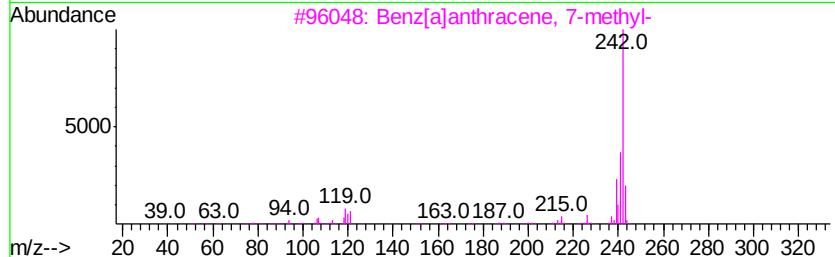
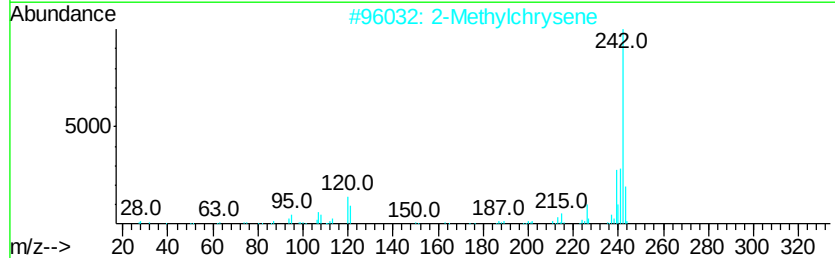
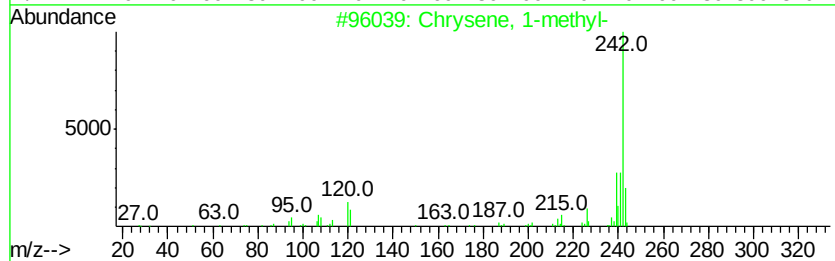
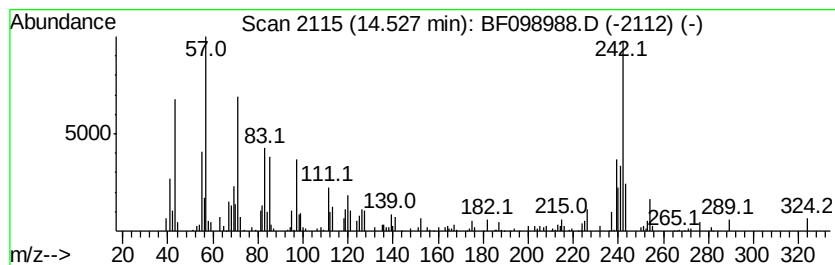
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ClientSampleId :  
CL-02-092717-C

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 Chrysene, 1-methyl- Concentration Rank 9

| R.T.    | EstConc | Area                                     | Relative to ISTD | R.T.           |
|---------|---------|------------------------------------------|------------------|----------------|
| 14.53   | 2.46 ng | 134706                                   | Chrysene-d12     | 14.07          |
| Hit# of | 5       | Tentative ID                             | MW MolForm       | CAS# Qual      |
| 1       |         | Chrysene, 1-methyl-                      | 242 C19H14       | 003351-28-8 55 |
| 2       |         | 2-Methylchrysene                         | 242 C19H14       | 003351-32-4 55 |
| 3       |         | Benz[ <i>a</i> ]anthracene, 7-methyl-    | 242 C19H14       | 002541-69-7 49 |
| 4       |         | Chrysene, 5-methyl-                      | 242 C19H14       | 003697-24-3 49 |
| 5       |         | Benzo[ <i>c</i> ]phenanthrene, 3-methyl- | 242 C19H14       | 002381-19-3 46 |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092717-C

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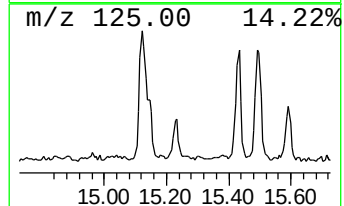
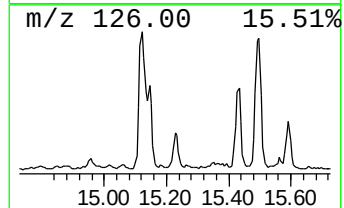
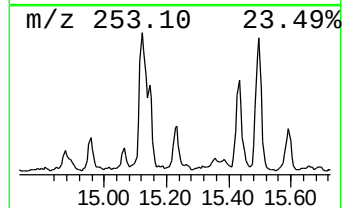
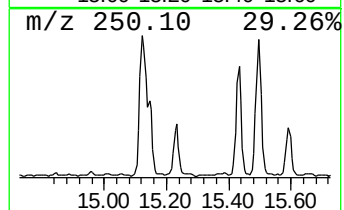
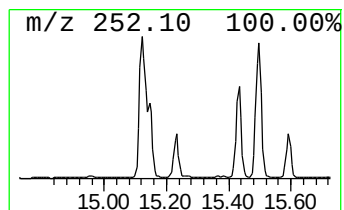
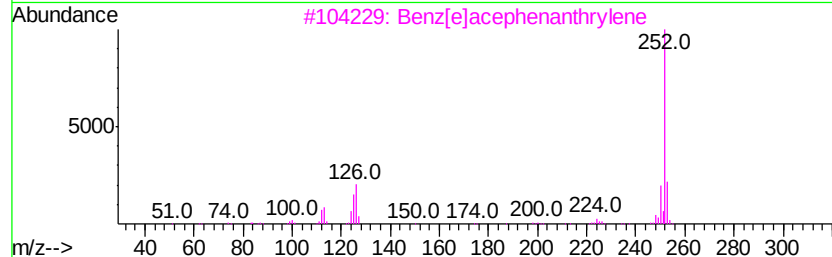
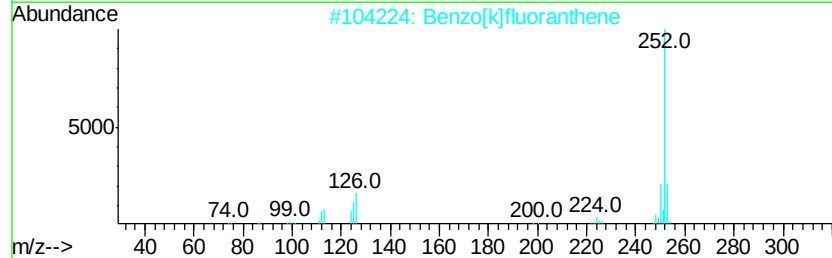
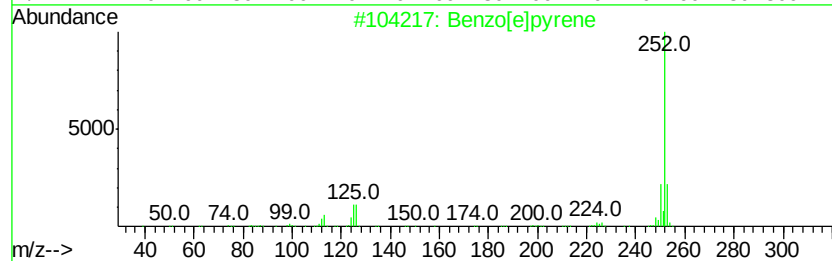
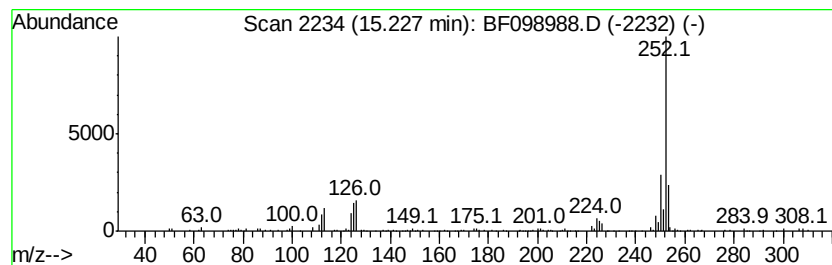
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Benzo[e]pyrene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.23 | 2.59 ng | 110015 | Perylene-d12     | 15.56 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 95   |
| 3    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 4    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092717-C

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

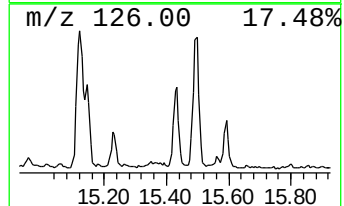
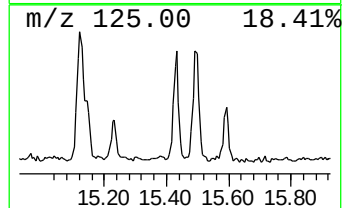
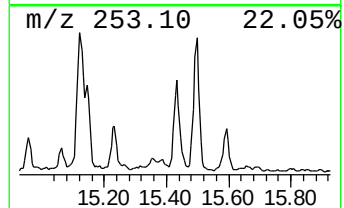
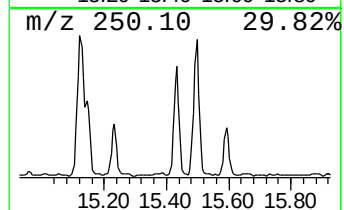
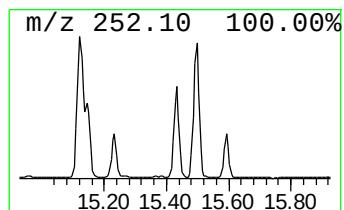
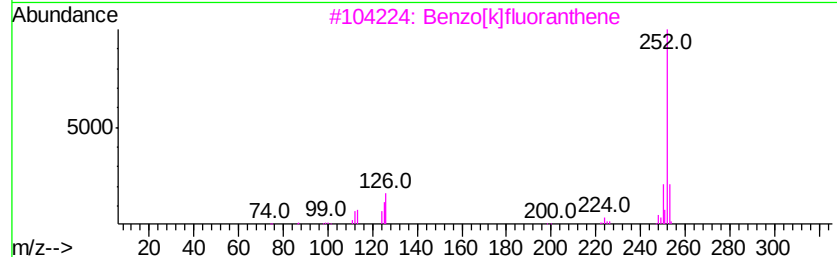
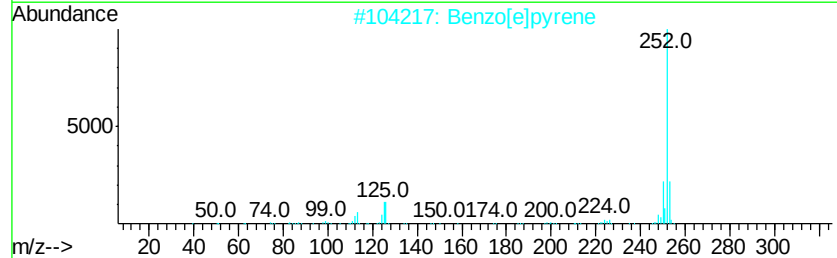
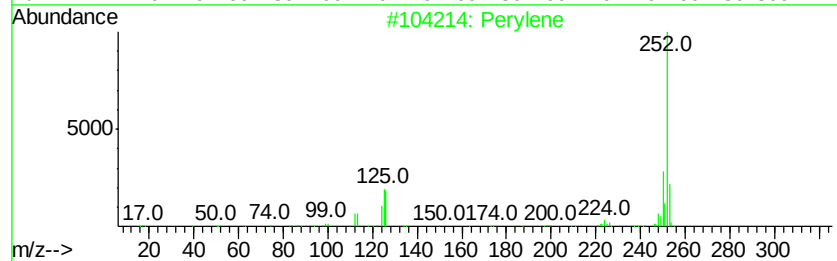
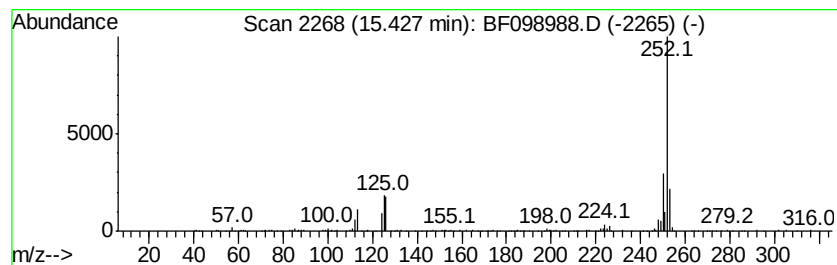
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Perylene Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.43 | 7.35 ng | 312343 | Perylene-d12     | 15.56 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Perylene                  | 252 | C20H12  | 000198-55-0 | 98   |
| 2    |    | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 3    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 95   |
| 4    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 5    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF100117\  
Data File : BF098988.D  
Acq On : 1 Oct 2017 13:25  
Operator : SJ/JU  
Sample : I5487-07  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-02-092717-C

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  | 5.8     | ng    | 237756   | 1                     | 6.90  | 827358  | 20.0 |
| 2-Pentanone, 4-hy...  | 5.13  | 14.0    | ng    | 577428   | 1                     | 6.90  | 827358  | 20.0 |
| unknown6.67           | 6.67  | 71.8    | ng    | 2969620  | 1                     | 6.90  | 827358  | 20.0 |
| Eicosane              | 10.83 | 3.0     | ng    | 132584   | 4                     | 11.43 | 888963  | 20.0 |
| unknown12.04          | 12.04 | 2.3     | ng    | 100640   | 4                     | 11.43 | 888963  | 20.0 |
| 9,10-Dimethylanthe... | 12.47 | 2.4     | ng    | 106313   | 4                     | 11.43 | 888963  | 20.0 |
| 11H-Benzo[b]fluorene  | 13.09 | 2.1     | ng    | 114099   | 5                     | 14.07 | 1095380 | 20.0 |
| Cyclopentadecane      | 13.90 | 3.7     | ng    | 200903   | 5                     | 14.07 | 1095380 | 20.0 |
| Chrysene, 1-methyl-   | 14.53 | 2.5     | ng    | 134706   | 5                     | 14.07 | 1095380 | 20.0 |
| Benzo[e]pyrene        | 15.23 | 2.6     | ng    | 110015   | 6                     | 15.56 | 849913  | 20.0 |
| Perylene              | 15.43 | 7.3     | ng    | 312343   | 6                     | 15.56 | 849913  | 20.0 |