

Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
 Data File : BF076829.D  
 Acq On : 13 Jan 2015 4:44  
 Operator : IZ / TP  
 Sample : G1030-10  
 Misc : S  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 TP4-SS-1(2-4)

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-BF010915.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         | 1.407       | 27            | 28          | 34           | rBV      | 71679          | 122046        | 11.80%          | 0.836%        |
| 2         | 1.487       | 34            | 35          | 58           | rVB      | 525478         | 937433        | 90.64%          | 6.424%        |
| 3         | 4.253       | 274           | 277         | 287          | rBB      | 118756         | 277136        | 26.80%          | 1.899%        |
| 4         | 5.167       | 354           | 357         | 366          | rBV      | 539239         | 946257        | 91.50%          | 6.485%        |
| 5         | 7.487       | 557           | 560         | 565          | rBV      | 570371         | 939255        | 90.82%          | 6.437%        |
| 6         | 7.579       | 565           | 568         | 575          | rVB      | 573222         | 1034191       | 100.00%         | 7.087%        |
| 7         | 8.082       | 609           | 612         | 616          | rBV      | 130343         | 200161        | 19.35%          | 1.372%        |
| 8         | 8.402       | 637           | 640         | 644          | rBV      | 426020         | 735358        | 71.10%          | 5.039%        |
| 9         | 9.373       | 722           | 725         | 728          | rBV      | 366557         | 602706        | 58.28%          | 4.130%        |
| 10        | 10.985      | 863           | 866         | 870          | rBV      | 165216         | 277477        | 26.83%          | 1.902%        |
| 11        | 12.448      | 992           | 994         | 998          | rBB      | 24584          | 41534         | 4.02%           | 0.285%        |
| 12        | 13.637      | 1095          | 1098        | 1102         | rBV      | 595805         | 1012709       | 97.92%          | 6.940%        |
| 13        | 14.700      | 1188          | 1191        | 1195         | rBB      | 53873          | 76642         | 7.41%           | 0.525%        |
| 14        | 14.780      | 1195          | 1198        | 1201         | rBB      | 6690           | 10467         | 1.01%           | 0.072%        |
| 15        | 15.122      | 1225          | 1228        | 1232         | rBB      | 183308         | 295964        | 28.62%          | 2.028%        |
| 16        | 16.300      | 1328          | 1331        | 1336         | rVB      | 443847         | 585096        | 56.58%          | 4.010%        |
| 17        | 16.711      | 1364          | 1367        | 1369         | rBV      | 138115         | 162294        | 15.69%          | 1.112%        |
| 18        | 16.768      | 1369          | 1372        | 1375         | rVV      | 555117         | 678134        | 65.57%          | 4.647%        |
| 19        | 17.214      | 1408          | 1411        | 1415         | rBV      | 8293           | 16470         | 1.59%           | 0.113%        |
| 20        | 17.854      | 1464          | 1467        | 1469         | rBV      | 281968         | 320797        | 31.02%          | 2.198%        |
| 21        | 17.888      | 1469          | 1470        | 1473         | rVV      | 128688         | 115896        | 11.21%          | 0.794%        |
| 22        | 17.968      | 1475          | 1477        | 1479         | rVB      | 31606          | 36115         | 3.49%           | 0.247%        |
| 23        | 18.037      | 1479          | 1483        | 1484         | rBV      | 8720           | 10834         | 1.05%           | 0.074%        |
| 24        | 18.243      | 1499          | 1501        | 1503         | rBV      | 8883           | 11259         | 1.09%           | 0.077%        |
| 25        | 18.597      | 1529          | 1532        | 1533         | rBV      | 15769          | 17349         | 1.68%           | 0.119%        |
| 26        | 18.631      | 1533          | 1535        | 1539         | rVB      | 20711          | 25739         | 2.49%           | 0.176%        |
| 27        | 18.689      | 1539          | 1540        | 1542         | rBV      | 8593           | 15650         | 1.51%           | 0.107%        |
| 28        | 18.723      | 1542          | 1543        | 1545         | rVV2     | 25643          | 33694         | 3.26%           | 0.231%        |
| 29        | 18.769      | 1545          | 1547        | 1549         | rVB      | 13576          | 15975         | 1.54%           | 0.109%        |
| 30        | 18.826      | 1549          | 1552        | 1555         | rBV      | 50112          | 61043         | 5.90%           | 0.418%        |
| 31        | 19.020      | 1563          | 1569        | 1574         | rBV4     | 15214          | 39599         | 3.83%           | 0.271%        |
| 32        | 19.340      | 1595          | 1597        | 1599         | rBV      | 11188          | 16111         | 1.56%           | 0.110%        |
| 33        | 19.523      | 1611          | 1613        | 1616         | rBV      | 275853         | 310049        | 29.98%          | 2.125%        |
| 34        | 19.706      | 1628          | 1629        | 1633         | rBV4     | 6548           | 15616         | 1.51%           | 0.107%        |

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 TP4-SS-1(2-4)

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-BF010915.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 19.809 | 1636 | 1638 | 1640 | rVV  | 300504 | 320620  | 31.00%  | 2.197% |
| 36 | 19.854 | 1640 | 1642 | 1644 | rVV3 | 9384   | 17367   | 1.68%   | 0.119% |
| 37 | 19.900 | 1644 | 1646 | 1648 | rVB2 | 11428  | 12909   | 1.25%   | 0.088% |
| 38 | 19.957 | 1648 | 1651 | 1653 | rBV2 | 51298  | 73346   | 7.09%   | 0.503% |
| 39 | 20.026 | 1655 | 1657 | 1659 | rVV2 | 16310  | 26101   | 2.52%   | 0.179% |
| 40 | 20.072 | 1659 | 1661 | 1664 | rVV  | 967802 | 1034163 | 100.00% | 7.087% |
| 41 | 20.117 | 1664 | 1665 | 1667 | rVB  | 13232  | 15253   | 1.47%   | 0.105% |
| 42 | 20.254 | 1671 | 1677 | 1679 | rBV  | 39617  | 64353   | 6.22%   | 0.441% |
| 43 | 20.346 | 1683 | 1685 | 1686 | rBV  | 24986  | 34132   | 3.30%   | 0.234% |
| 44 | 20.380 | 1686 | 1688 | 1695 | rVV3 | 18386  | 43975   | 4.25%   | 0.301% |
| 45 | 20.483 | 1695 | 1697 | 1699 | rVB3 | 16871  | 23835   | 2.30%   | 0.163% |
| 46 | 20.529 | 1699 | 1701 | 1702 | rBV  | 10209  | 12162   | 1.18%   | 0.083% |
| 47 | 20.780 | 1720 | 1723 | 1724 | rBV3 | 5149   | 11036   | 1.07%   | 0.076% |
| 48 | 20.860 | 1727 | 1730 | 1731 | rVV  | 31455  | 46000   | 4.45%   | 0.315% |
| 49 | 20.894 | 1731 | 1733 | 1736 | rVV2 | 18002  | 37301   | 3.61%   | 0.256% |
| 50 | 20.952 | 1736 | 1738 | 1741 | rVV4 | 6760   | 11308   | 1.09%   | 0.077% |
| 51 | 21.020 | 1741 | 1744 | 1746 | rVV2 | 18653  | 34796   | 3.36%   | 0.238% |
| 52 | 21.066 | 1746 | 1748 | 1751 | rVB2 | 23564  | 38776   | 3.75%   | 0.266% |
| 53 | 21.112 | 1751 | 1752 | 1754 | rBV2 | 11837  | 16383   | 1.58%   | 0.112% |
| 54 | 21.157 | 1754 | 1756 | 1759 | rVB  | 15014  | 17788   | 1.72%   | 0.122% |
| 55 | 21.237 | 1762 | 1763 | 1767 | rBV2 | 6492   | 12066   | 1.17%   | 0.083% |
| 56 | 21.340 | 1767 | 1772 | 1774 | rBV2 | 350335 | 703420  | 68.02%  | 4.821% |
| 57 | 21.374 | 1774 | 1775 | 1778 | rVB  | 136933 | 107722  | 10.42%  | 0.738% |
| 58 | 21.466 | 1780 | 1783 | 1785 | rBV  | 30200  | 40424   | 3.91%   | 0.277% |
| 59 | 21.603 | 1793 | 1795 | 1797 | rVB2 | 13923  | 20857   | 2.02%   | 0.143% |
| 60 | 21.649 | 1797 | 1799 | 1801 | rBV  | 18436  | 20794   | 2.01%   | 0.143% |
| 61 | 21.717 | 1803 | 1805 | 1809 | rVV2 | 21629  | 36968   | 3.57%   | 0.253% |
| 62 | 21.832 | 1813 | 1815 | 1817 | rVV  | 24159  | 35554   | 3.44%   | 0.244% |
| 63 | 21.877 | 1817 | 1819 | 1821 | rVB2 | 16734  | 21594   | 2.09%   | 0.148% |
| 64 | 21.935 | 1823 | 1824 | 1826 | rBV  | 9910   | 17201   | 1.66%   | 0.118% |
| 65 | 21.992 | 1828 | 1829 | 1831 | rVV2 | 13926  | 20791   | 2.01%   | 0.142% |
| 66 | 22.037 | 1831 | 1833 | 1837 | rVB5 | 11664  | 22572   | 2.18%   | 0.155% |
| 67 | 22.106 | 1837 | 1839 | 1841 | rVB  | 29200  | 43390   | 4.20%   | 0.297% |
| 68 | 22.220 | 1845 | 1849 | 1851 | rBV5 | 16609  | 27889   | 2.70%   | 0.191% |
| 69 | 22.392 | 1862 | 1864 | 1865 | rBV2 | 7906   | 11644   | 1.13%   | 0.080% |
| 70 | 22.415 | 1865 | 1866 | 1869 | rVB3 | 13983  | 18713   | 1.81%   | 0.128% |
| 71 | 22.472 | 1869 | 1871 | 1873 | rBV  | 22798  | 36502   | 3.53%   | 0.250% |

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 TP4-SS-1(2-4)

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-BF010915.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 22.529 | 1874 | 1876 | 1878 | rVB3 | 12249  | 19198  | 1.86%  | 0.132% |
| 73 | 22.586 | 1878 | 1881 | 1886 | rBV  | 131469 | 302983 | 29.30% | 2.076% |
| 74 | 22.689 | 1886 | 1890 | 1892 | rVB2 | 35524  | 55101  | 5.33%  | 0.378% |
| 75 | 22.746 | 1892 | 1895 | 1896 | rBV3 | 8524   | 15108  | 1.46%  | 0.104% |
|    |        |      |      |      |      |        |        |        |        |
| 76 | 22.837 | 1898 | 1903 | 1904 | rBV4 | 39061  | 73663  | 7.12%  | 0.505% |
| 77 | 22.872 | 1904 | 1906 | 1909 | rVB  | 80450  | 99027  | 9.58%  | 0.679% |
| 78 | 22.929 | 1909 | 1911 | 1913 | rBV  | 124225 | 144247 | 13.95% | 0.989% |
| 79 | 22.997 | 1914 | 1917 | 1918 | rBV  | 203113 | 301202 | 29.12% | 2.064% |
| 80 | 23.203 | 1933 | 1935 | 1939 | rVB4 | 19321  | 25163  | 2.43%  | 0.172% |
|    |        |      |      |      |      |        |        |        |        |
| 81 | 23.512 | 1960 | 1962 | 1964 | rBV3 | 12179  | 18617  | 1.80%  | 0.128% |
| 82 | 23.558 | 1964 | 1966 | 1967 | rVV2 | 22238  | 30042  | 2.90%  | 0.206% |
| 83 | 23.592 | 1967 | 1969 | 1971 | rVB2 | 26480  | 38375  | 3.71%  | 0.263% |
| 84 | 24.118 | 2012 | 2015 | 2019 | rVB2 | 60798  | 132013 | 12.76% | 0.905% |
| 85 | 24.255 | 2024 | 2027 | 2028 | rBV2 | 16490  | 32727  | 3.16%  | 0.224% |
|    |        |      |      |      |      |        |        |        |        |
| 86 | 24.289 | 2028 | 2030 | 2032 | rVV2 | 14799  | 20592  | 1.99%  | 0.141% |
| 87 | 24.415 | 2038 | 2041 | 2044 | rBV  | 50983  | 78588  | 7.60%  | 0.539% |
| 88 | 24.575 | 2052 | 2055 | 2059 | rBV2 | 40488  | 80578  | 7.79%  | 0.552% |
| 89 | 25.935 | 2171 | 2174 | 2176 | rBV4 | 16291  | 38184  | 3.69%  | 0.262% |

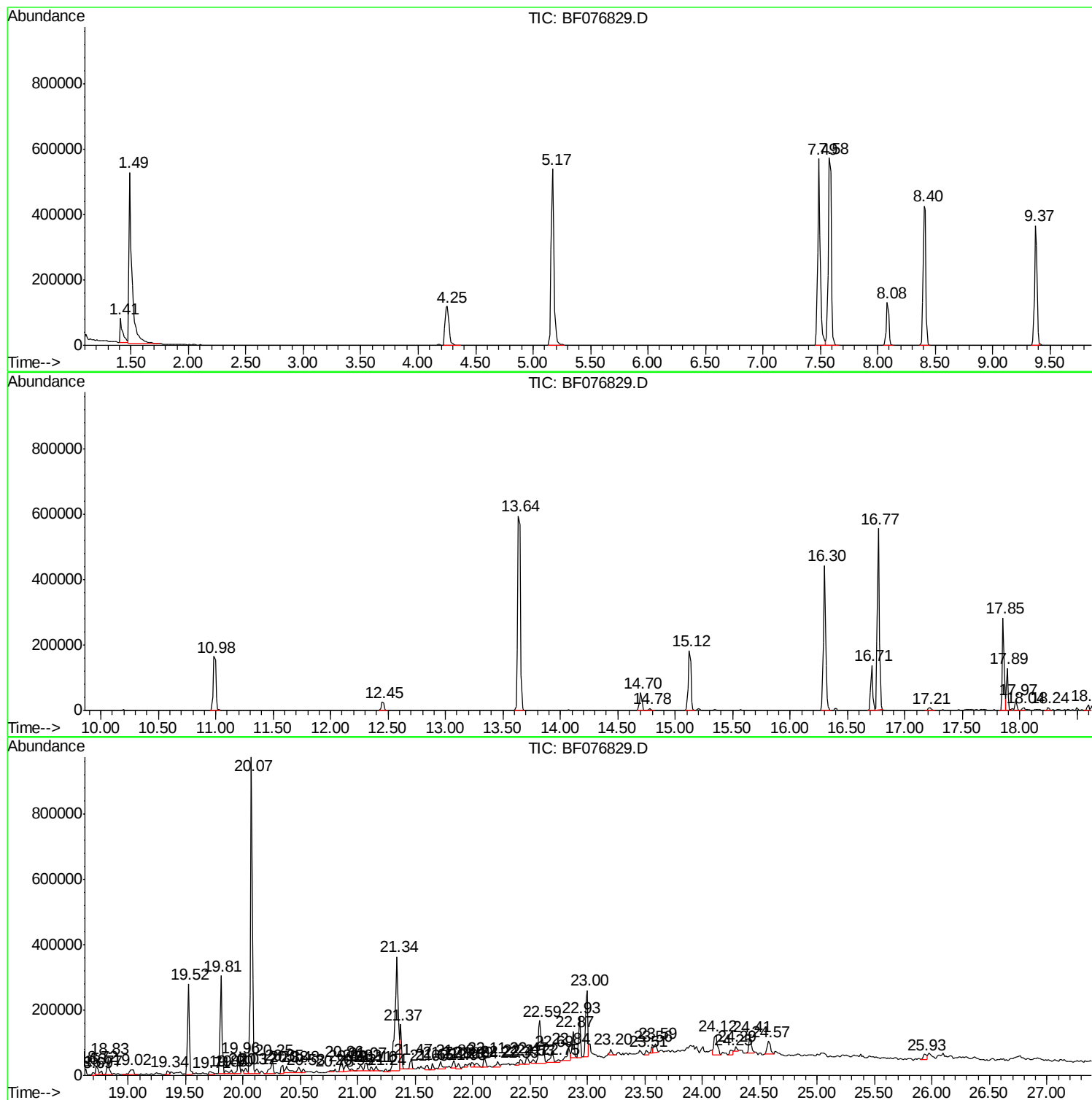
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Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

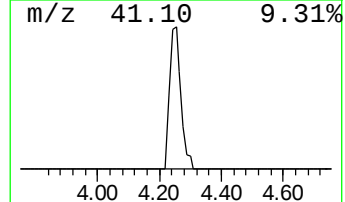
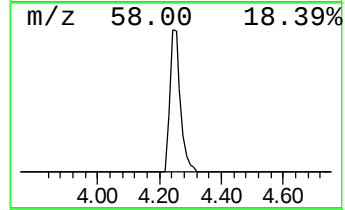
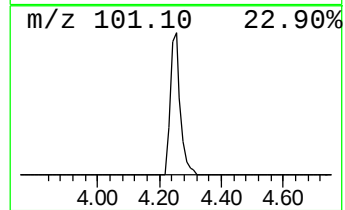
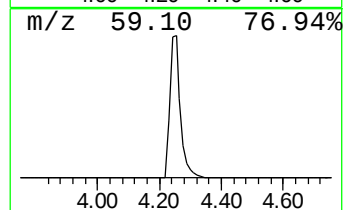
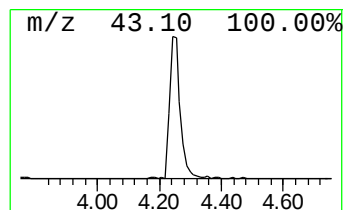
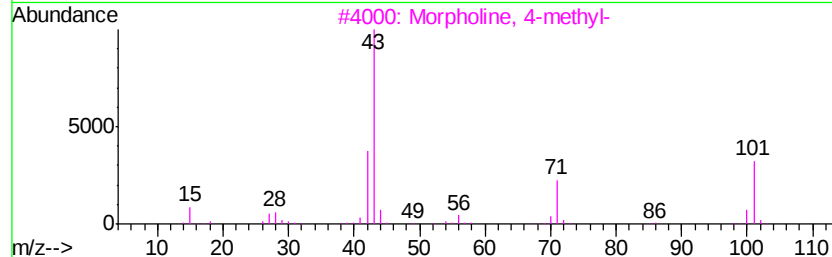
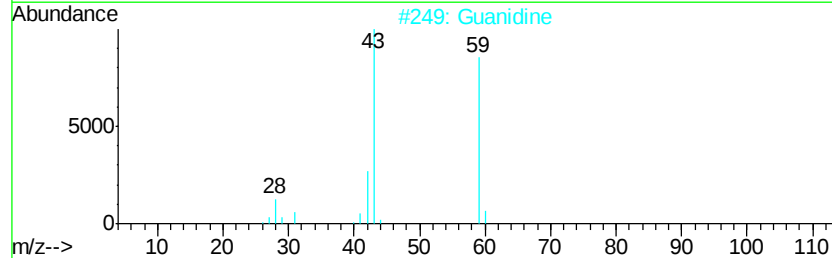
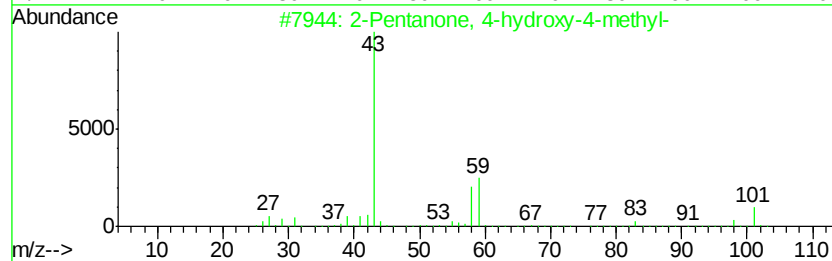
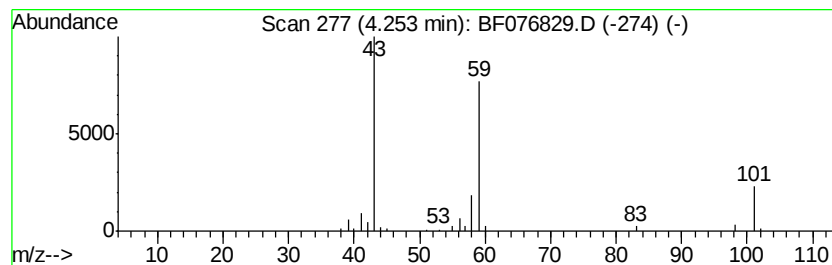
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 4.25 | 27.69 ng | 277136 | 1,4-Dichlorobenzene-d4 | 8.08 |

| Hit# | of | Tentative ID                       | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------------|-----|---------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-   | 116 | C6H12O2 | 000123-42-2 | 50   |
| 2    |    | Guanidine                          | 59  | CH5N3   | 000113-00-8 | 9    |
| 3    |    | Morpholine, 4-methyl-              | 101 | C5H11NO | 000109-02-4 | 9    |
| 4    |    | Acetone                            | 58  | C3H6O   | 000067-64-1 | 9    |
| 5    |    | (+)-4-Amino-4,5-dihydro-2(3H)-f... | 101 | C4H7NO2 | 016504-58-8 | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

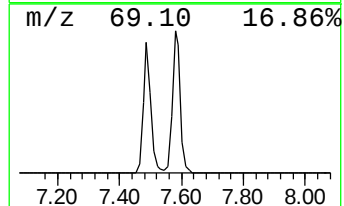
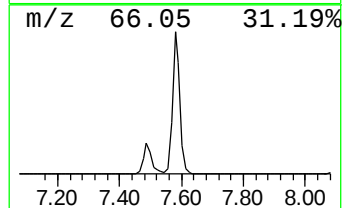
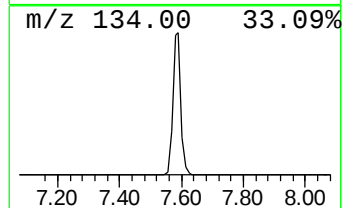
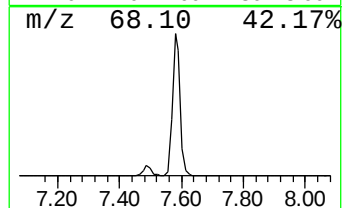
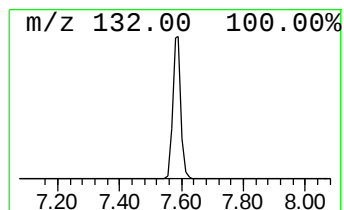
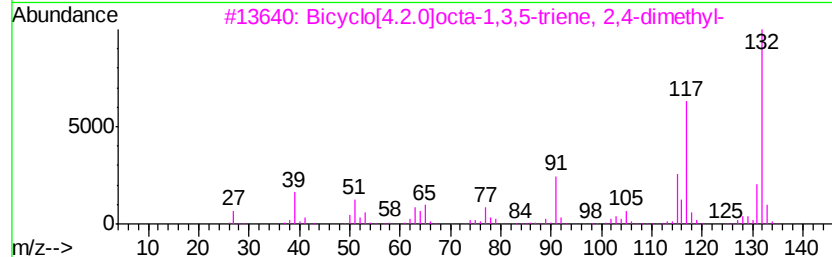
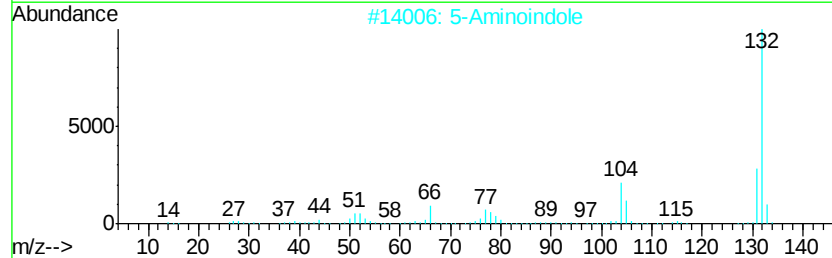
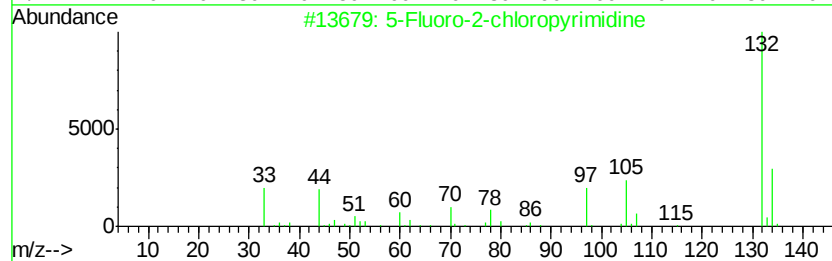
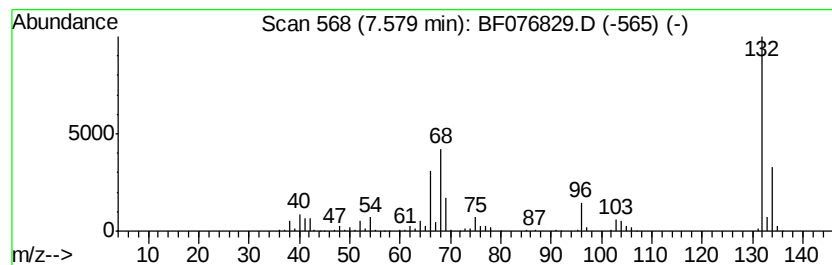
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown7.58 Concentration Rank 1

| R.T. | EstConc   | Area    | Relative to ISTD       | R.T. |
|------|-----------|---------|------------------------|------|
| 7.58 | 103.34 ng | 1034190 | 1,4-Dichlorobenzene-d4 | 8.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0 | 12   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0 | 10   |
| 3    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7 | 9    |
| 4    |    | 1,3,4-Thiadiazole-2(3H)-thione, ... | 132 | C3H4N2S2  | 029490-19-5 | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3 | 9    |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

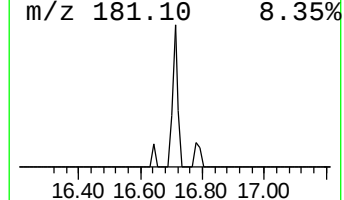
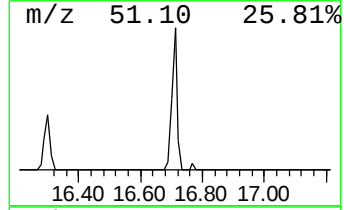
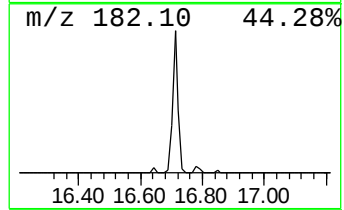
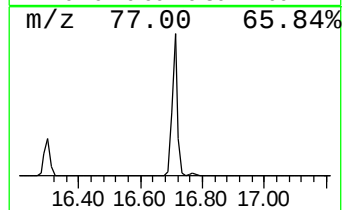
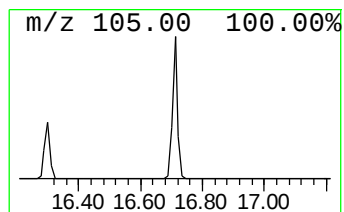
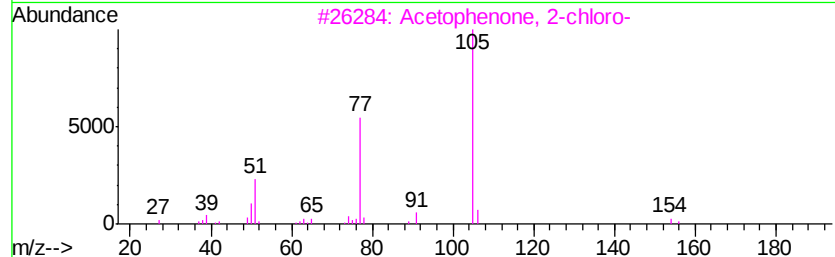
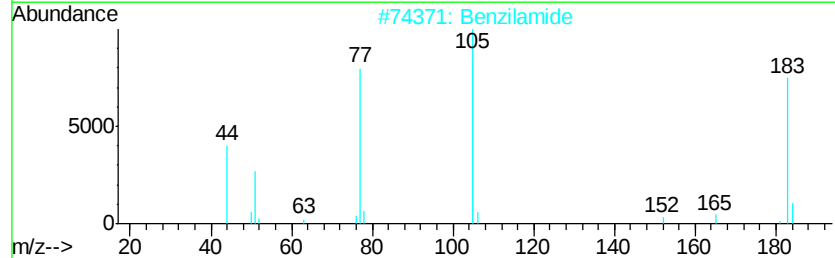
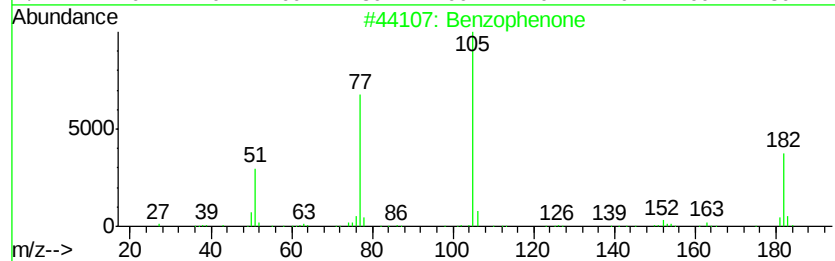
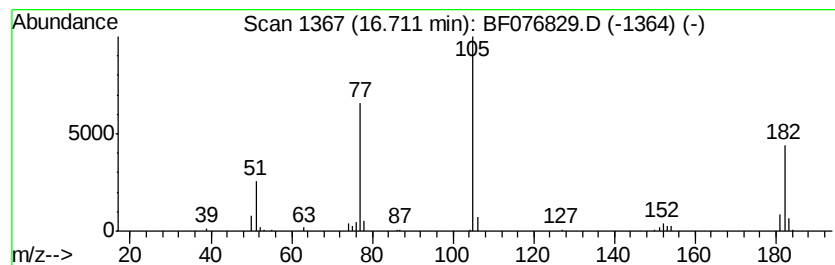
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Benzophenone Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 16.71 | 10.12 ng | 162294 | Phenanthrene-d10 | 17.85 |

| Hit# of 5 | Tentative ID                       | MW  | MolForm   | CAS#        | Qual |
|-----------|------------------------------------|-----|-----------|-------------|------|
| 1         | Benzophenone                       | 182 | C13H10O   | 000119-61-9 | 97   |
| 2         | Benzilamide                        | 227 | C14H13NO2 | 004746-87-6 | 50   |
| 3         | Acetophenone, 2-chloro-            | 154 | C8H7ClO   | 000532-27-4 | 49   |
| 4         | Benzenepropanenitrile, .beta.-oxo- | 145 | C9H7NO    | 000614-16-4 | 47   |
| 5         | Benzoylformic acid                 | 150 | C8H6O3    | 000611-73-4 | 47   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

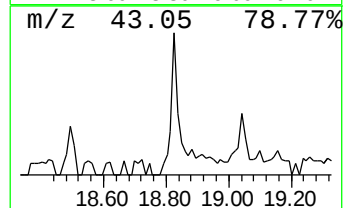
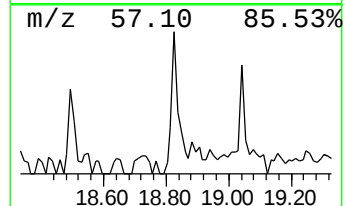
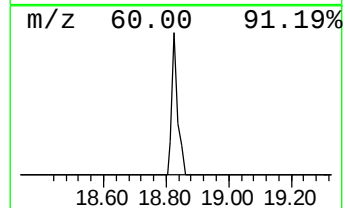
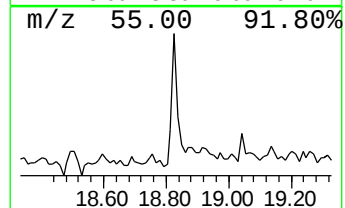
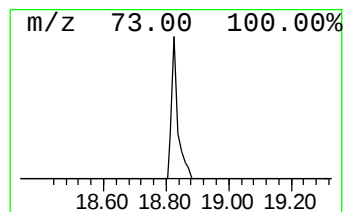
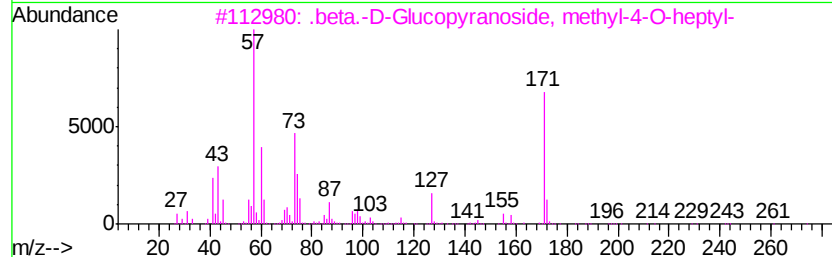
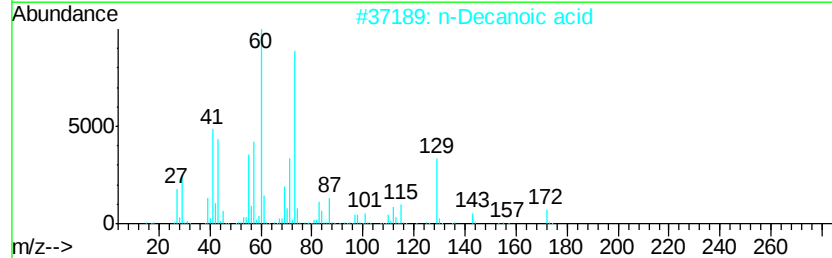
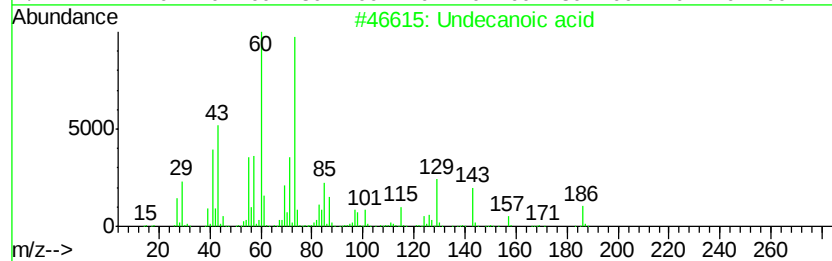
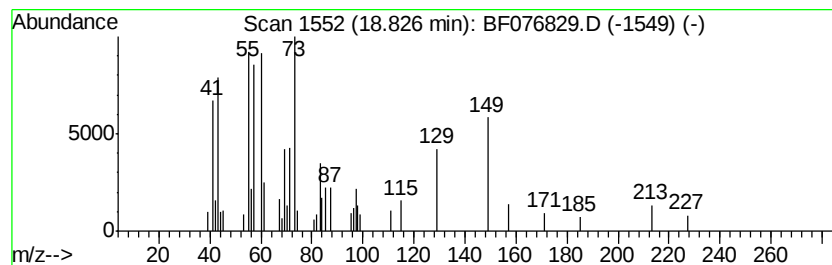
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Undecanoic acid Concentration Rank 10

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 18.83 | 3.81 ng | 61043 | Phenanthrene-d10 | 17.85 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | Undecanoic acid                     | 186 | C11H22O2 | 000112-37-8  | 53   |
| 2    |    |   | n-Decanoic acid                     | 172 | C10H20O2 | 000334-48-5  | 53   |
| 3    |    |   | .beta.-D-Glucopyranoside, methyl... | 292 | C14H28O6 | 1000157-04-9 | 38   |
| 4    |    |   | Octane, 1-(ethenylthio)-            | 172 | C10H20S  | 042779-08-8  | 27   |
| 5    |    |   | .beta.-D-Mannofuranoside, 1-O-(1... | 332 | C17H32O6 | 1000155-29-9 | 14   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

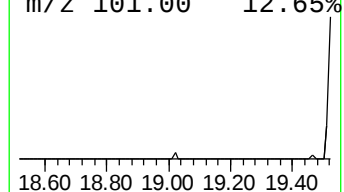
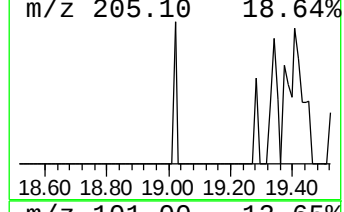
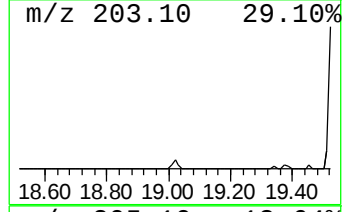
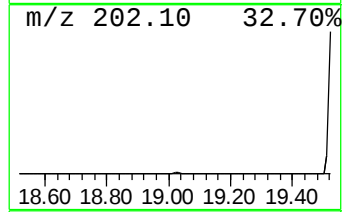
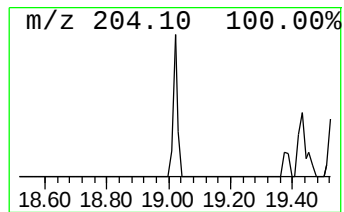
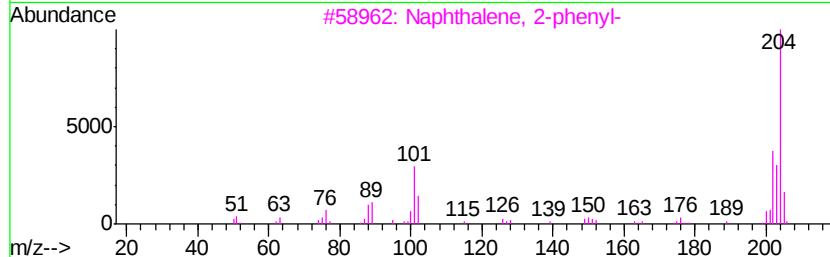
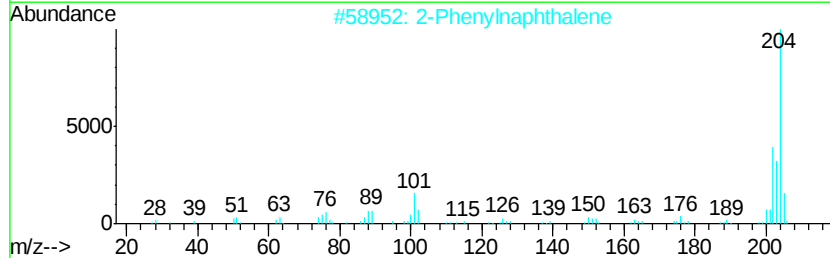
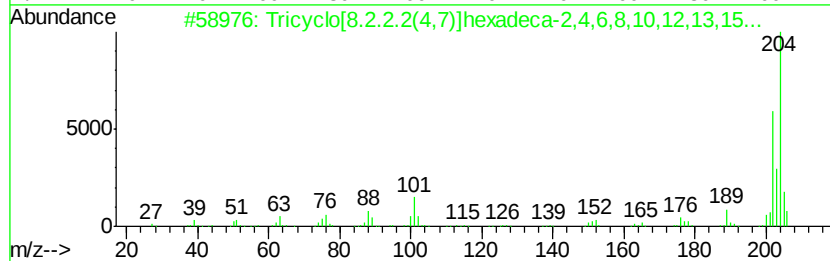
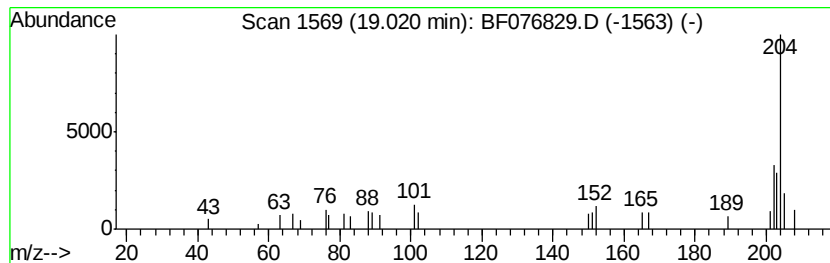
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Tricyclo[8.2.2.2(4,7)]hexad... Concentration Rank 15

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.02 | 2.47 ng | 39599 | Phenanthrene-d10 | 17.85 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Tricyclo[8.2.2.2(4,7)]hexadeca-2...  | 204 | C16H12  | 006572-60-7 | 81   |
| 2    |    |   | 2-Phenylnaphthalene                  | 204 | C16H12  | 035465-71-5 | 76   |
| 3    |    |   | Naphthalene, 2-phenyl-               | 204 | C16H12  | 000612-94-2 | 64   |
| 4    |    |   | 5,16[1',2']:[8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 56   |
| 5    |    |   | Propanedinitrile, 2,2'-(2,5-cycl...  | 204 | C12H4N4 | 001518-16-7 | 52   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

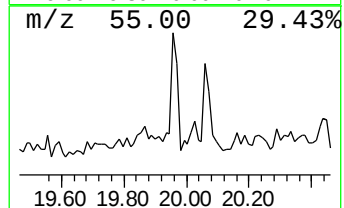
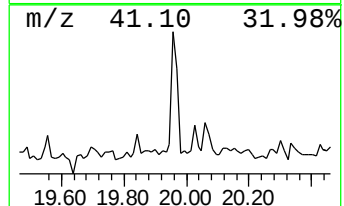
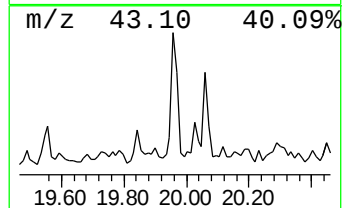
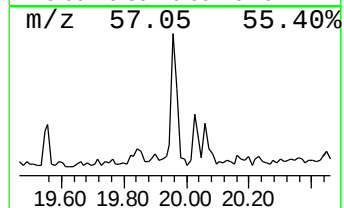
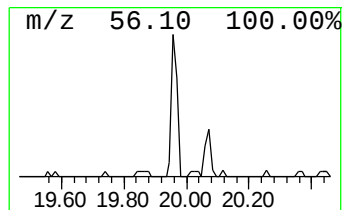
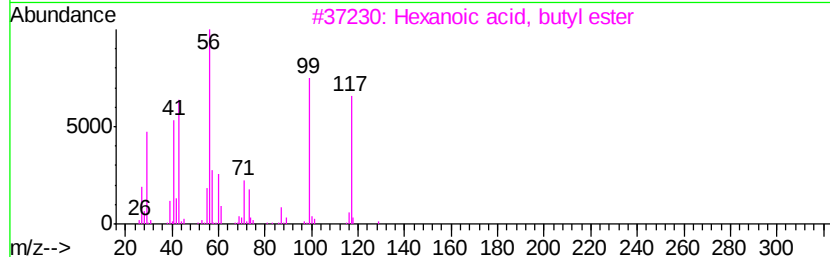
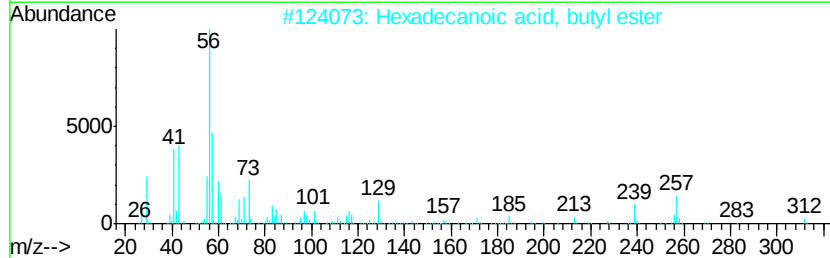
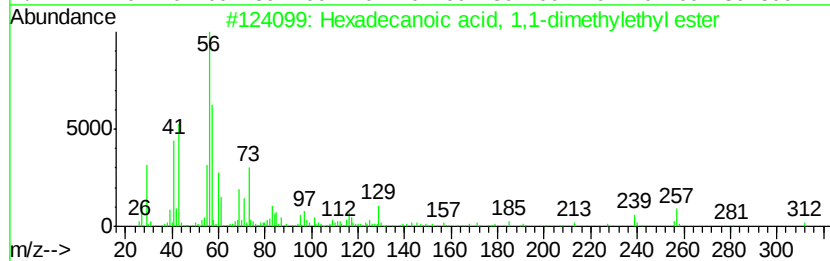
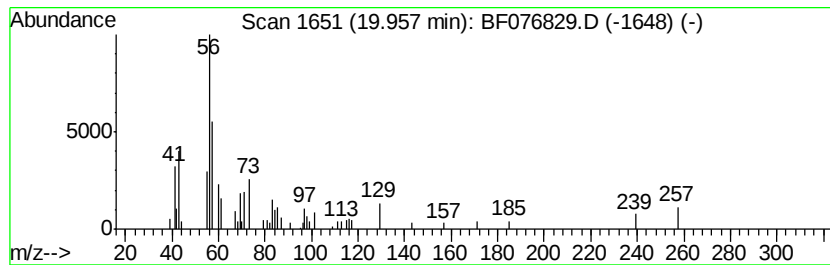
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Hexadecanoic acid, 1,1-dime... Concentration Rank 19

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 19.96 | 2.09 ng | 73346 | Chrysene-d12     | 21.34 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Hexadecanoic acid, 1,1-dimethyle... | 312 | C20H40O2 | 031158-91-5 | 91   |
| 2    |    | Hexadecanoic acid, butyl ester      | 312 | C20H40O2 | 000111-06-8 | 90   |
| 3    |    | Hexanoic acid, butyl ester          | 172 | C10H20O2 | 000626-82-4 | 50   |
| 4    |    | Cyclobutane, 1,1-dimethyl-2-octyl-  | 196 | C14H28   | 062338-30-1 | 43   |
| 5    |    | Heptanoic acid, 2-methylpropyl e... | 186 | C11H22O2 | 007779-80-8 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

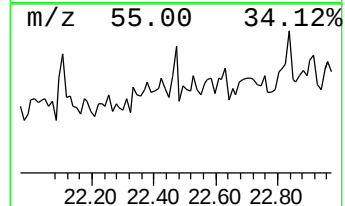
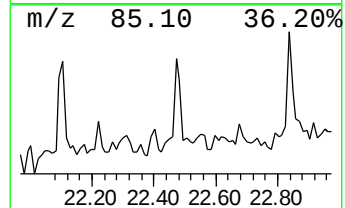
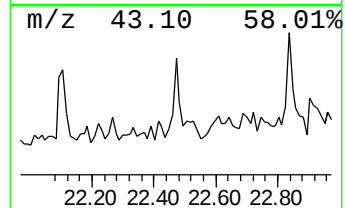
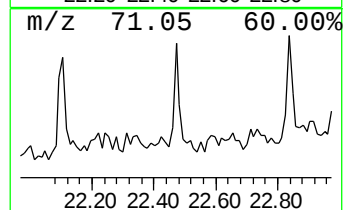
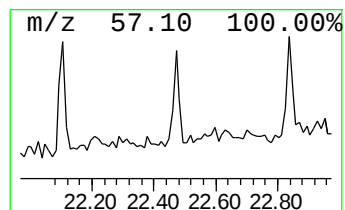
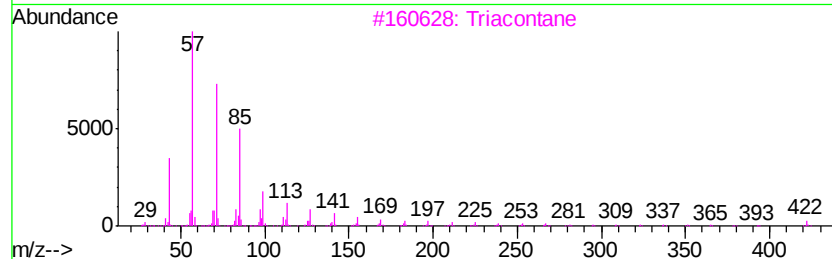
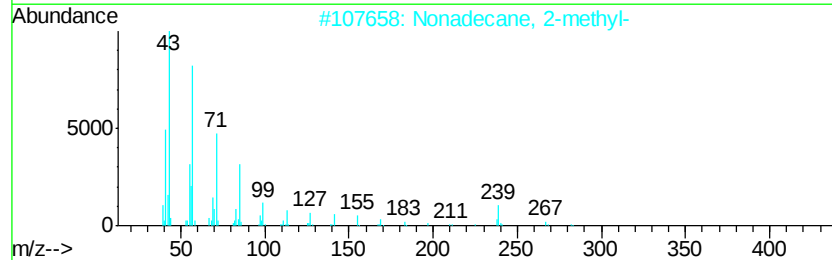
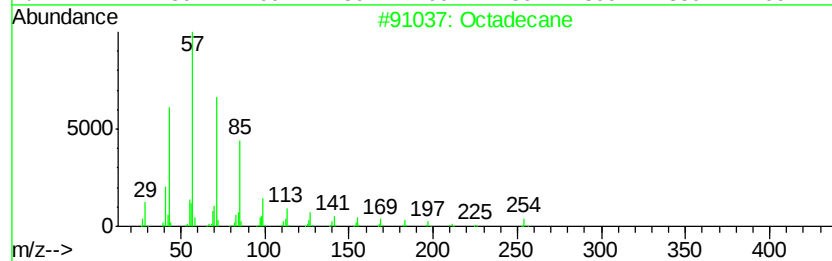
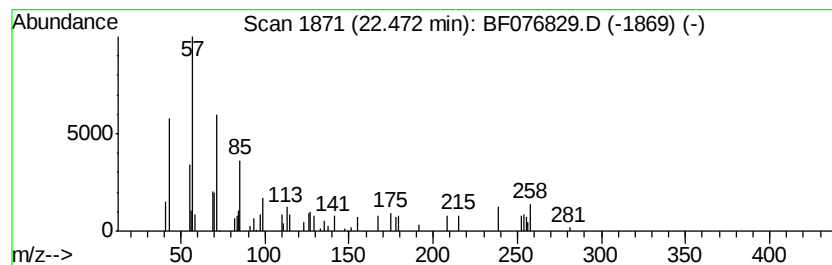
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Octadecane Concentration Rank 16

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 22.47 | 2.42 ng | 36502 | Perylene-d12     | 23.00 |

| Hit# | of | Tentative ID          | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------|-----|---------|-------------|------|
| 1    | 5  | Octadecane            | 254 | C18H38  | 000593-45-3 | 64   |
| 2    |    | Nonadecane, 2-methyl- | 282 | C20H42  | 001560-86-7 | 53   |
| 3    |    | Triacontane           | 422 | C30H62  | 000638-68-6 | 50   |
| 4    |    | Tetratriacontane      | 479 | C34H70  | 014167-59-0 | 50   |
| 5    |    | Docosane              | 310 | C22H46  | 000629-97-0 | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

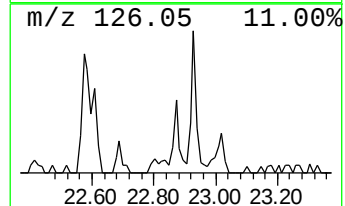
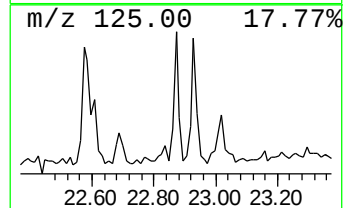
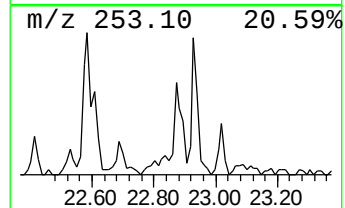
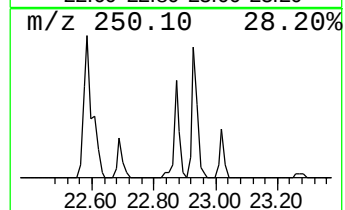
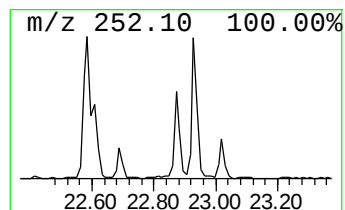
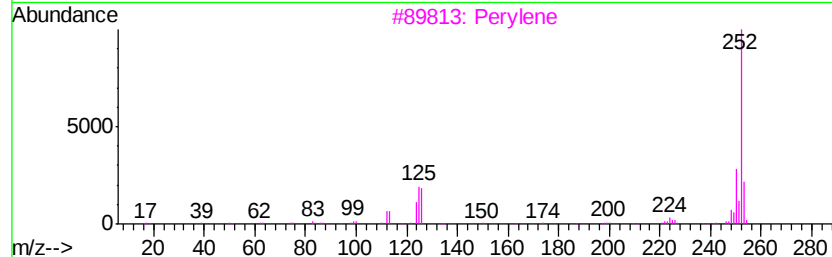
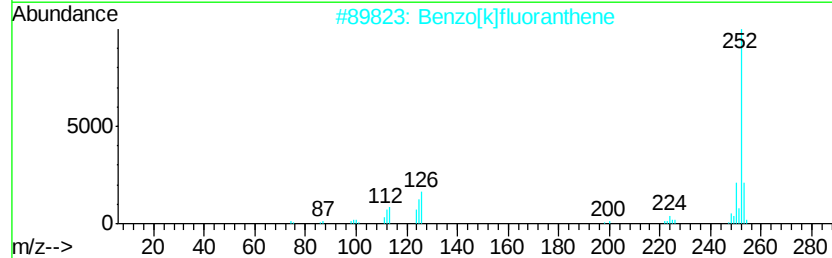
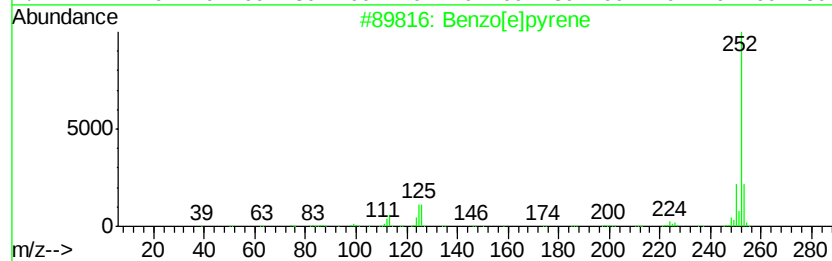
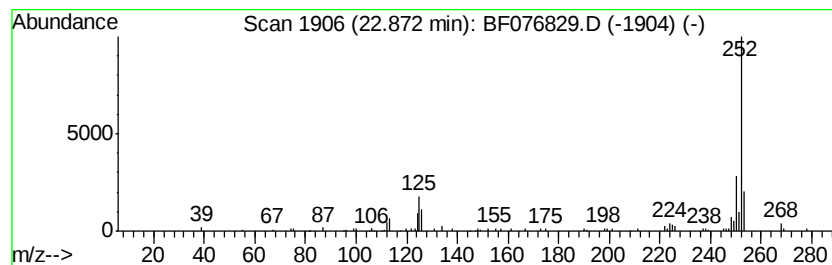
Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzo[e]pyrene Concentration Rank 7

| R.T.    | EstConc | Area                       | Relative to ISTD |         | R.T.        |      |
|---------|---------|----------------------------|------------------|---------|-------------|------|
| 22.87   | 6.58 ng | 99027                      | Perylene-d12     |         | 23.00       |      |
| Hit# of | 5       | Tentative ID               | MW               | MolForm | CAS#        | Qual |
| 1       |         | Benzo[el]pyrene            | 252              | C20H12  | 000192-97-2 | 94   |
| 2       |         | Benzo[k]fluoranthene       | 252              | C20H12  | 000207-08-9 | 93   |
| 3       |         | Perylene                   | 252              | C20H12  | 000198-55-0 | 90   |
| 4       |         | Benzo[el]acephenanthrylene | 252              | C20H12  | 000205-99-2 | 89   |
| 5       |         | Benzo[j]fluoranthene       | 252              | C20H12  | 000205-82-3 | 89   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

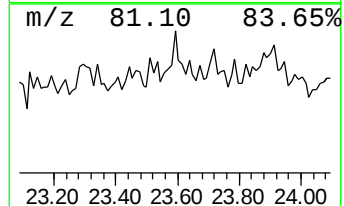
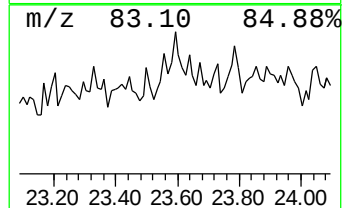
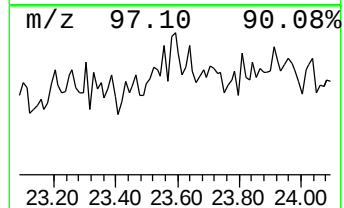
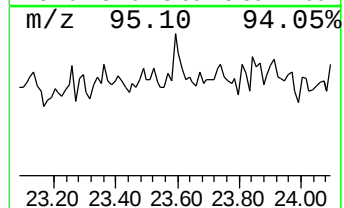
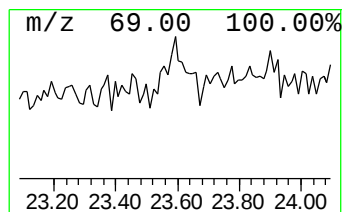
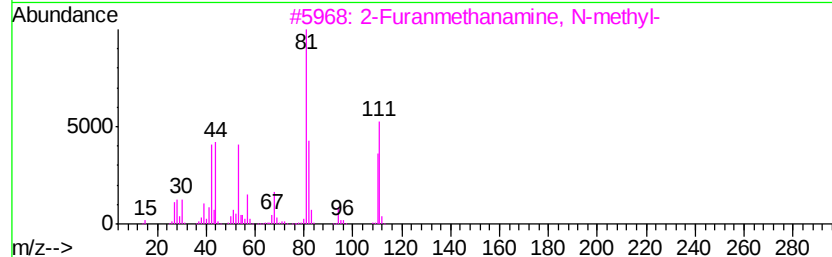
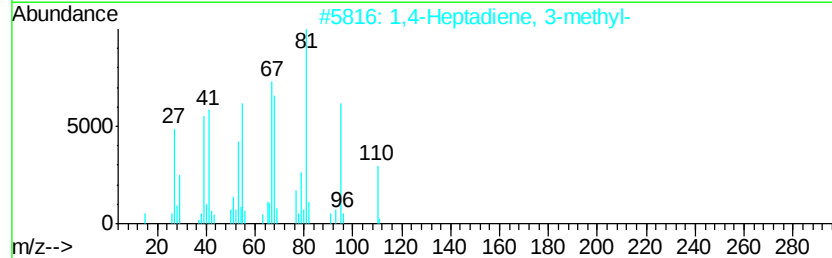
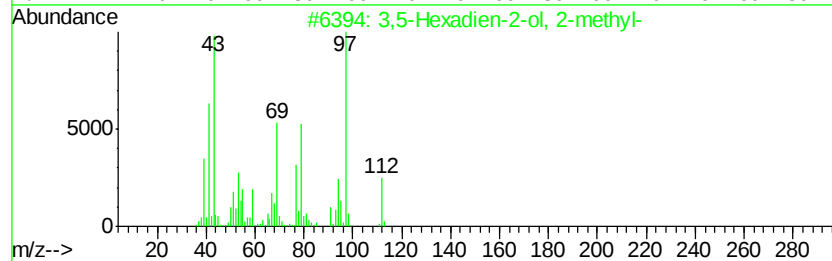
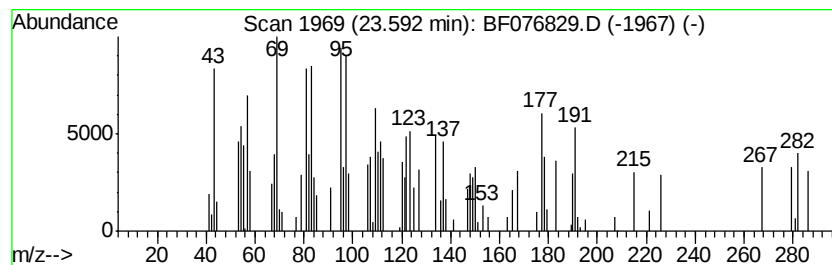
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown23.59 Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 23.59 | 2.55 ng | 38375 | Perylene-d12     | 23.00 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 3,5-Hexadien-2-ol, 2-methyl-        | 112 | C7H12O       | 000926-38-5 | 35      |      |      |
| 2    | 1,4-Heptadiene, 3-methyl-           | 110 | C8H14        | 001603-01-6 | 16      |      |      |
| 3    | 2-Furanmethanamine, N-methyl-       | 111 | C6H9NO       | 004753-75-7 | 14      |      |      |
| 4    | 1,2-Dipropylcyclopropene            | 124 | C9H16        | 010306-92-0 | 12      |      |      |
| 5    | 4(1H)-Pteridinone, 2-amino-6-met... | 177 | C7H7N5O      | 000708-75-8 | 12      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

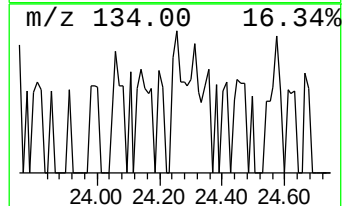
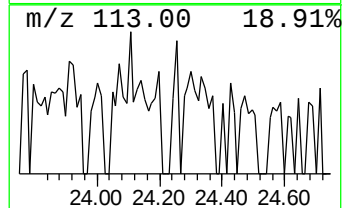
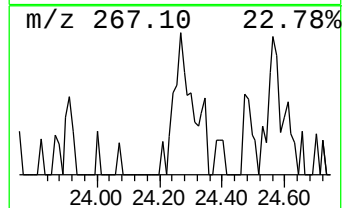
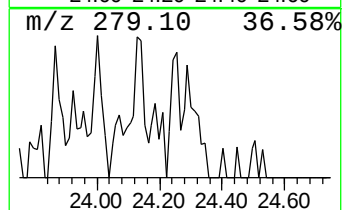
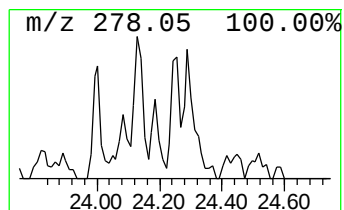
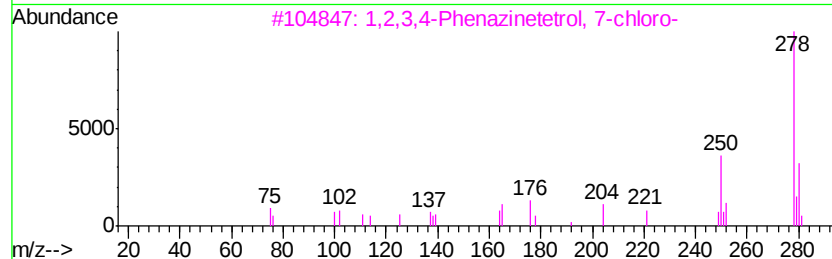
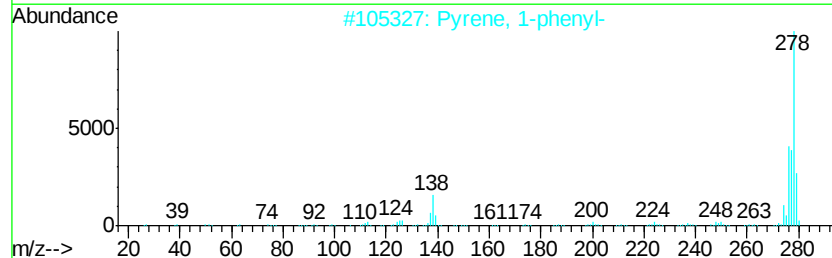
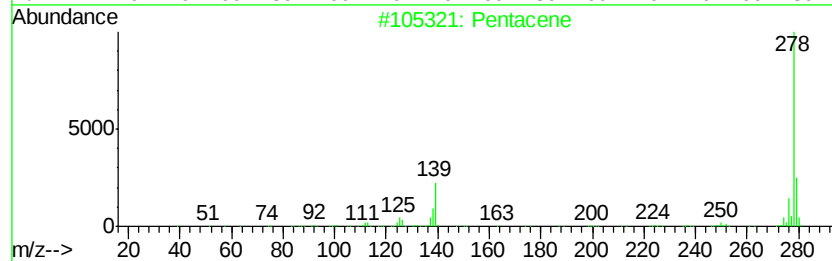
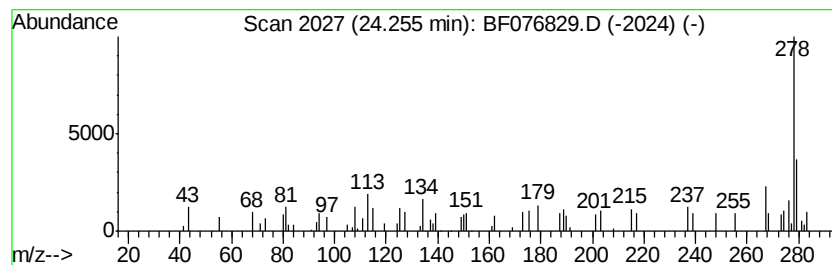
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown24.25 Concentration Rank 17

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 24.25 | 2.17 ng | 32727 | Perylene-d12     | 23.00 |

| Hit# | of | Tentative ID                       | MW  | MolForm     | CAS#        | Qual |
|------|----|------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | Pentacene                          | 278 | C22H14      | 000135-48-8 | 46   |
| 2    |    | Pyrene, 1-phenyl-                  | 278 | C22H14      | 005101-27-9 | 43   |
| 3    |    | 1,2,3,4-Phenazinetetrol, 7-chloro- | 278 | C12H7ClN2O4 | 023774-10-9 | 38   |
| 4    |    | Pentaphene                         | 278 | C22H14      | 000222-93-5 | 37   |
| 5    |    | Dibenz[a,h]anthracene              | 278 | C22H14      | 000053-70-3 | 37   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

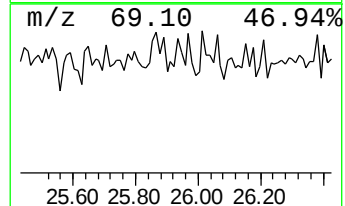
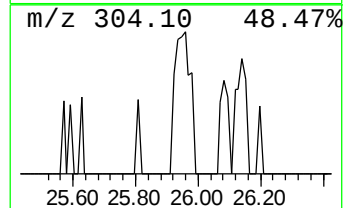
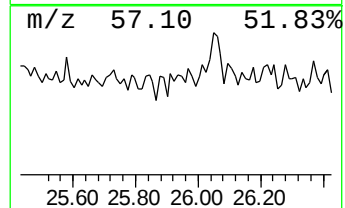
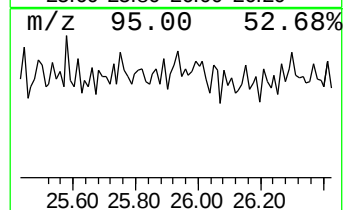
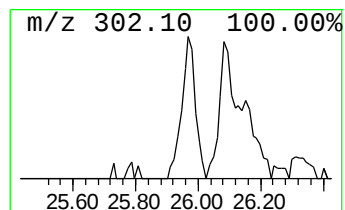
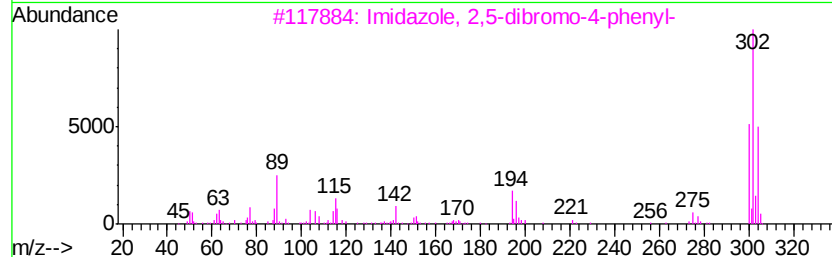
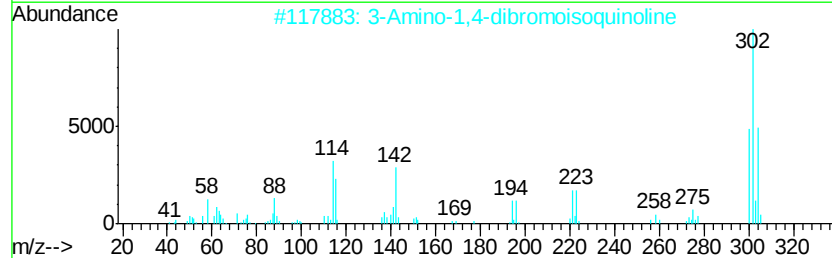
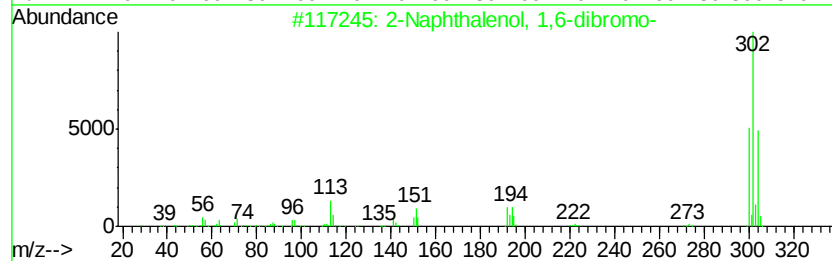
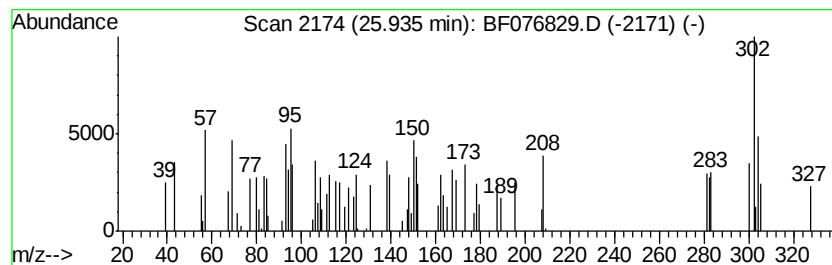
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 unknown25.93 Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 25.93 | 2.54 ng | 38184 | Perylene-d12     | 23.00 |

| Hit# | of                                | 5   | Tentative ID | MW           | MolForm | CAS# | Qual |
|------|-----------------------------------|-----|--------------|--------------|---------|------|------|
| 1    | 2-Naphthalenol, 1,6-dibromo-      | 300 | C10H6Br2O    | 016239-18-2  | 35      |      |      |
| 2    | 3-Amino-1,4-dibromoisquinoline    | 300 | C9H6Br2N2    | 028970-70-9  | 27      |      |      |
| 3    | Imidazole, 2,5-dibromo-4-phenyl-  | 300 | C9H6Br2N2    | 1000124-11-5 | 27      |      |      |
| 4    | Benzenesulfonyl chloride, 2-iodo- | 302 | C6H4ClIO2S   | 063059-29-0  | 22      |      |      |
| 5    | Hesperetin                        | 302 | C16H14O6     | 000520-33-2  | 22      |      |      |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011215\  
Data File : BF076829.D  
Acq On : 13 Jan 2015 4:44  
Operator : IZ / TP  
Sample : G1030-10  
Misc : S  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
TP4-SS-1(2-4)

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010915.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 2-Pentanone, 4-hy... | 4.25  | 27.7    | ng    | 277136   | 1                     | 8.08  | 200161 | 20.0 |
| unknown7.58          | 7.58  | 103.3   | ng    | 1034190  | 1                     | 8.08  | 200161 | 20.0 |
| Benzophenone         | 16.71 | 10.1    | ng    | 162294   | 4                     | 17.85 | 320797 | 20.0 |
| 4H-Cyclopenta[def... | 18.72 | 2.1     | ng    | 33694    | 4                     | 17.85 | 320797 | 20.0 |
| Undecanoic acid      | 18.83 | 3.8     | ng    | 61043    | 4                     | 17.85 | 320797 | 20.0 |
| Tricyclo[8.2.2.2(... | 19.02 | 2.5     | ng    | 39599    | 4                     | 17.85 | 320797 | 20.0 |
| Hexadecanoic acid... | 19.96 | 2.1     | ng    | 73346    | 5                     | 21.34 | 703420 | 20.0 |
| Octadecane           | 22.47 | 2.4     | ng    | 36502    | 6                     | 23.00 | 301202 | 20.0 |
| Benzo[e]pyrene       | 22.87 | 6.6     | ng    | 99027    | 6                     | 23.00 | 301202 | 20.0 |
| unknown23.59         | 23.59 | 2.5     | ng    | 38375    | 6                     | 23.00 | 301202 | 20.0 |
| unknown24.25         | 24.25 | 2.2     | ng    | 32727    | 6                     | 23.00 | 301202 | 20.0 |
| unknown25.93         | 25.93 | 2.5     | ng    | 38184    | 6                     | 23.00 | 301202 | 20.0 |