

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF090717\  
 Data File : BF098324.D  
 Acq On : 7 Sep 2017 20:09  
 Operator : SJ/JU  
 Sample : I5053-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-62A-1.5-3

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.2

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.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         | 4.251       | 364           | 368         | 376          | rVB3     | 15436          | 28037         | 1.14%           | 0.097%        |
| 2         | 4.869       | 465           | 473         | 486          | rBV      | 162686         | 242437        | 9.86%           | 0.838%        |
| 3         | 5.245       | 532           | 537         | 541          | rBV2     | 39771          | 54419         | 2.21%           | 0.188%        |
| 4         | 5.298       | 541           | 546         | 549          | rBV      | 2207341        | 2238357       | 91.06%          | 7.736%        |
| 5         | 5.516       | 580           | 583         | 586          | rBV      | 27864          | 27760         | 1.13%           | 0.096%        |
| 6         | 5.928       | 647           | 653         | 655          | rBV4     | 25052          | 28818         | 1.17%           | 0.100%        |
| 7         | 6.210       | 698           | 701         | 704          | rBV2     | 27590          | 29017         | 1.18%           | 0.100%        |
| 8         | 6.340       | 717           | 723         | 735          | rVB      | 2260145        | 2458069       | 100.00%         | 8.495%        |
| 9         | 6.463       | 739           | 744         | 747          | rBV      | 2402438        | 2297569       | 93.47%          | 7.940%        |
| 10        | 6.528       | 753           | 755         | 759          | rVB3     | 35307          | 33676         | 1.37%           | 0.116%        |
| 11        | 6.687       | 779           | 782         | 789          | rVB      | 768012         | 669714        | 27.25%          | 2.315%        |
| 12        | 6.845       | 805           | 809         | 812          | rBV      | 2019243        | 1780607       | 72.44%          | 6.154%        |
| 13        | 7.081       | 844           | 849         | 851          | rBV4     | 29839          | 30943         | 1.26%           | 0.107%        |
| 14        | 7.257       | 874           | 879         | 882          | rBV      | 1601816        | 1461575       | 59.46%          | 5.051%        |
| 15        | 7.292       | 882           | 885         | 888          | rVB2     | 46150          | 41658         | 1.69%           | 0.144%        |
| 16        | 7.369       | 895           | 898         | 901          | rBV      | 34602          | 36575         | 1.49%           | 0.126%        |
| 17        | 7.975       | 995           | 1001        | 1003         | rBV      | 988345         | 893461        | 36.35%          | 3.088%        |
| 18        | 7.992       | 1003          | 1004        | 1007         | rVB      | 101665         | 65240         | 2.65%           | 0.225%        |
| 19        | 8.398       | 1068          | 1073        | 1077         | rBV      | 64322          | 61513         | 2.50%           | 0.213%        |
| 20        | 8.569       | 1099          | 1102        | 1106         | rVB      | 55024          | 42141         | 1.71%           | 0.146%        |
| 21        | 8.686       | 1119          | 1122        | 1125         | rVB      | 112215         | 85656         | 3.48%           | 0.296%        |
| 22        | 8.786       | 1136          | 1139        | 1142         | rBV      | 66914          | 57311         | 2.33%           | 0.198%        |
| 23        | 8.998       | 1172          | 1175        | 1179         | rVB      | 36130          | 29335         | 1.19%           | 0.101%        |
| 24        | 9.051       | 1179          | 1184        | 1187         | rBV      | 2739733        | 2457624       | 99.98%          | 8.494%        |
| 25        | 9.133       | 1192          | 1198        | 1200         | rBV      | 71509          | 75469         | 3.07%           | 0.261%        |
| 26        | 9.316       | 1225          | 1229        | 1232         | rVB      | 38010          | 48994         | 1.99%           | 0.169%        |
| 27        | 9.386       | 1238          | 1241        | 1243         | rBV      | 68794          | 67000         | 2.73%           | 0.232%        |
| 28        | 9.410       | 1243          | 1245        | 1247         | rVV      | 57014          | 45826         | 1.86%           | 0.158%        |
| 29        | 9.445       | 1247          | 1251        | 1255         | rVV      | 474314         | 409844        | 16.67%          | 1.416%        |
| 30        | 9.504       | 1259          | 1261        | 1265         | rVB2     | 33337          | 34594         | 1.41%           | 0.120%        |
| 31        | 9.586       | 1272          | 1275        | 1278         | rVB      | 55234          | 42275         | 1.72%           | 0.146%        |
| 32        | 9.663       | 1285          | 1288        | 1291         | rVB      | 76394          | 57370         | 2.33%           | 0.198%        |
| 33        | 9.728       | 1292          | 1299        | 1302         | rBV      | 969469         | 919191        | 37.39%          | 3.177%        |
| 34        | 9.757       | 1302          | 1304        | 1308         | rVB2     | 64415          | 58546         | 2.38%           | 0.202%        |

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 Sample : I5053-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-62A-1.5-3

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 9.833  | 1313 | 1317 | 1321 | rVB2 | 23273   | 30759   | 1.25%  | 0.106% |
| 36 | 9.880  | 1321 | 1325 | 1330 | rBV7 | 19651   | 38853   | 1.58%  | 0.134% |
| 37 | 9.928  | 1330 | 1333 | 1337 | rBV  | 92715   | 81443   | 3.31%  | 0.281% |
| 38 | 10.039 | 1350 | 1352 | 1355 | rBV  | 32906   | 33491   | 1.36%  | 0.116% |
| 39 | 10.133 | 1364 | 1368 | 1370 | rBV2 | 50047   | 58068   | 2.36%  | 0.201% |
| 40 | 10.163 | 1370 | 1373 | 1375 | rVB  | 84968   | 76144   | 3.10%  | 0.263% |
| 41 | 10.269 | 1388 | 1391 | 1393 | rBV2 | 65218   | 56313   | 2.29%  | 0.195% |
| 42 | 10.380 | 1404 | 1410 | 1415 | rVV3 | 43075   | 53430   | 2.17%  | 0.185% |
| 43 | 10.428 | 1415 | 1418 | 1422 | rVB4 | 49252   | 52311   | 2.13%  | 0.181% |
| 44 | 10.516 | 1427 | 1433 | 1437 | rBV  | 1465618 | 1364356 | 55.51% | 4.715% |
| 45 | 10.633 | 1450 | 1453 | 1458 | rBV3 | 150817  | 207970  | 8.46%  | 0.719% |
| 46 | 10.822 | 1480 | 1485 | 1487 | rBV4 | 28046   | 33748   | 1.37%  | 0.117% |
| 47 | 10.845 | 1487 | 1489 | 1495 | rVB2 | 33102   | 32684   | 1.33%  | 0.113% |
| 48 | 10.951 | 1502 | 1507 | 1509 | rBV2 | 27728   | 46474   | 1.89%  | 0.161% |
| 49 | 11.016 | 1515 | 1518 | 1521 | rBV2 | 72825   | 62433   | 2.54%  | 0.216% |
| 50 | 11.080 | 1526 | 1529 | 1531 | rVV  | 119394  | 113348  | 4.61%  | 0.392% |
| 51 | 11.110 | 1531 | 1534 | 1540 | rVB2 | 61900   | 71879   | 2.92%  | 0.248% |
| 52 | 11.210 | 1547 | 1551 | 1553 | rBV  | 996340  | 858973  | 34.95% | 2.969% |
| 53 | 11.233 | 1553 | 1555 | 1558 | rVV  | 466695  | 355960  | 14.48% | 1.230% |
| 54 | 11.286 | 1558 | 1564 | 1567 | rVB  | 101224  | 114529  | 4.66%  | 0.396% |
| 55 | 11.316 | 1567 | 1569 | 1573 | rBV3 | 34524   | 42294   | 1.72%  | 0.146% |
| 56 | 11.386 | 1576 | 1581 | 1584 | rVB3 | 50454   | 67356   | 2.74%  | 0.233% |
| 57 | 11.439 | 1587 | 1590 | 1593 | rBV  | 53522   | 53992   | 2.20%  | 0.187% |
| 58 | 11.504 | 1599 | 1601 | 1604 | rBV  | 84835   | 72910   | 2.97%  | 0.252% |
| 59 | 11.539 | 1605 | 1607 | 1612 | rVB2 | 49693   | 50869   | 2.07%  | 0.176% |
| 60 | 11.710 | 1633 | 1636 | 1638 | rBV  | 116188  | 92274   | 3.75%  | 0.319% |
| 61 | 11.739 | 1638 | 1641 | 1644 | rVB  | 179604  | 153737  | 6.25%  | 0.531% |
| 62 | 11.780 | 1645 | 1648 | 1651 | rBV2 | 36421   | 45719   | 1.86%  | 0.158% |
| 63 | 11.816 | 1651 | 1654 | 1657 | rVV  | 140732  | 162567  | 6.61%  | 0.562% |
| 64 | 11.845 | 1657 | 1659 | 1663 | rVB  | 70180   | 59972   | 2.44%  | 0.207% |
| 65 | 11.916 | 1668 | 1671 | 1673 | rVV  | 87727   | 81649   | 3.32%  | 0.282% |
| 66 | 11.939 | 1673 | 1675 | 1678 | rVB  | 42611   | 39837   | 1.62%  | 0.138% |
| 67 | 12.004 | 1683 | 1686 | 1689 | rVV  | 89346   | 92595   | 3.77%  | 0.320% |
| 68 | 12.033 | 1689 | 1691 | 1696 | rVB2 | 63221   | 60980   | 2.48%  | 0.211% |
| 69 | 12.157 | 1709 | 1712 | 1714 | rVB2 | 46348   | 42070   | 1.71%  | 0.145% |
| 70 | 12.186 | 1714 | 1717 | 1719 | rBV  | 63745   | 62228   | 2.53%  | 0.215% |
| 71 | 12.210 | 1719 | 1721 | 1724 | rVB  | 46813   | 33521   | 1.36%  | 0.116% |

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 Sample : I5053-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-62A-1.5-3

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

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

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 12.257 | 1726 | 1729 | 1732 | rBV  | 109541  | 116639  | 4.75%  | 0.403% |
| 73 | 12.298 | 1733 | 1736 | 1741 | rVV3 | 90923   | 122802  | 5.00%  | 0.424% |
| 74 | 12.345 | 1741 | 1744 | 1747 | rVV  | 64289   | 61954   | 2.52%  | 0.214% |
| 75 | 12.422 | 1753 | 1757 | 1760 | rBV  | 574373  | 490000  | 19.93% | 1.693% |
| 76 | 12.463 | 1762 | 1764 | 1766 | rBV  | 44815   | 40432   | 1.64%  | 0.140% |
| 77 | 12.645 | 1789 | 1795 | 1798 | rBV  | 430679  | 493903  | 20.09% | 1.707% |
| 78 | 12.669 | 1798 | 1799 | 1802 | rVV2 | 84084   | 72827   | 2.96%  | 0.252% |
| 79 | 12.704 | 1802 | 1805 | 1811 | rVB2 | 57310   | 73882   | 3.01%  | 0.255% |
| 80 | 12.798 | 1817 | 1821 | 1824 | rBV  | 1935822 | 1868764 | 76.03% | 6.459% |
| 81 | 12.863 | 1830 | 1832 | 1836 | rBV  | 48165   | 58635   | 2.39%  | 0.203% |
| 82 | 12.951 | 1845 | 1847 | 1849 | rBV2 | 53987   | 55221   | 2.25%  | 0.191% |
| 83 | 12.974 | 1849 | 1851 | 1854 | rVB  | 89748   | 80091   | 3.26%  | 0.277% |
| 84 | 13.039 | 1858 | 1862 | 1865 | rVB2 | 56935   | 79070   | 3.22%  | 0.273% |
| 85 | 13.080 | 1865 | 1869 | 1872 | rBV2 | 65161   | 84096   | 3.42%  | 0.291% |
| 86 | 13.204 | 1887 | 1890 | 1893 | rBV2 | 45729   | 58649   | 2.39%  | 0.203% |
| 87 | 13.280 | 1898 | 1903 | 1908 | rVB  | 596869  | 595490  | 24.23% | 2.058% |
| 88 | 13.486 | 1935 | 1938 | 1942 | rVB  | 84334   | 81813   | 3.33%  | 0.283% |
| 89 | 13.692 | 1970 | 1973 | 1981 | rVB2 | 182455  | 193705  | 7.88%  | 0.669% |
| 90 | 13.845 | 1994 | 1999 | 2002 | rBV2 | 840719  | 960707  | 39.08% | 3.320% |
| 91 | 13.868 | 2002 | 2003 | 2006 | rVB  | 241285  | 143587  | 5.84%  | 0.496% |
| 92 | 14.857 | 2167 | 2171 | 2178 | rBV  | 260925  | 442315  | 17.99% | 1.529% |
| 93 | 15.139 | 2216 | 2219 | 2225 | rVB  | 140395  | 153286  | 6.24%  | 0.530% |
| 94 | 15.198 | 2226 | 2229 | 2235 | rVB  | 152483  | 174594  | 7.10%  | 0.603% |
| 95 | 15.257 | 2235 | 2239 | 2243 | rBV  | 457107  | 564006  | 22.95% | 1.949% |

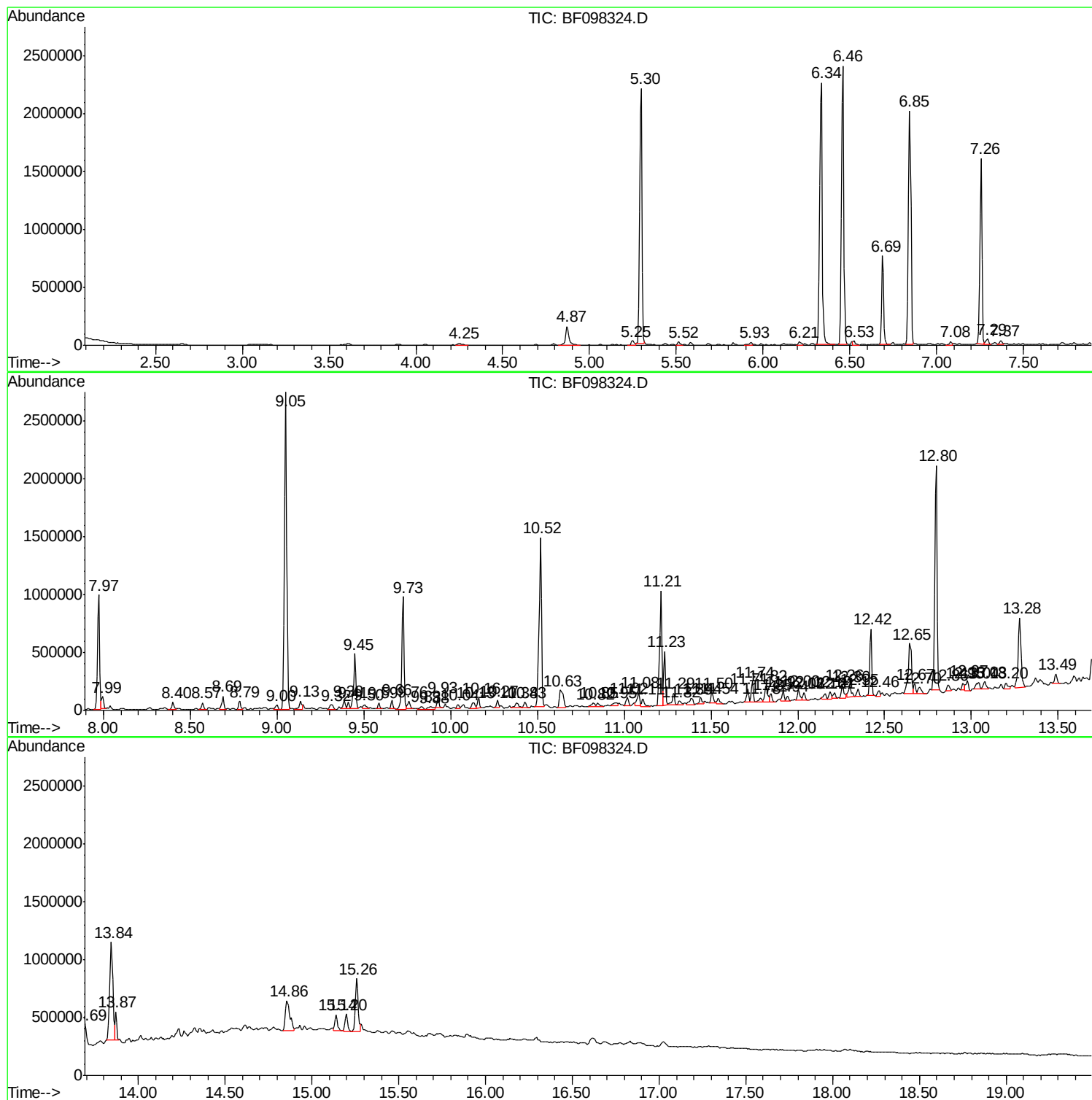
Sum of corrected areas: 28934825

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Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

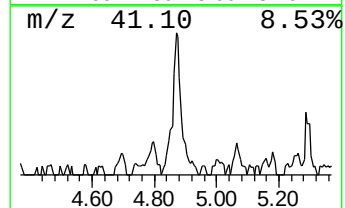
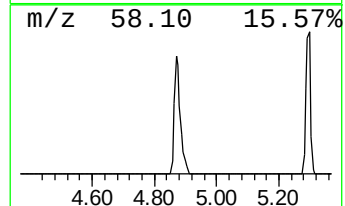
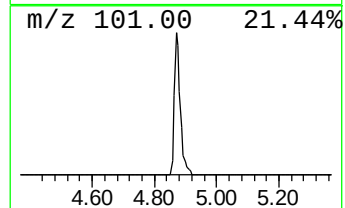
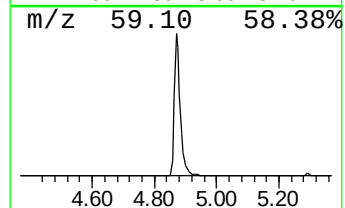
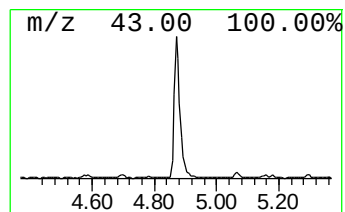
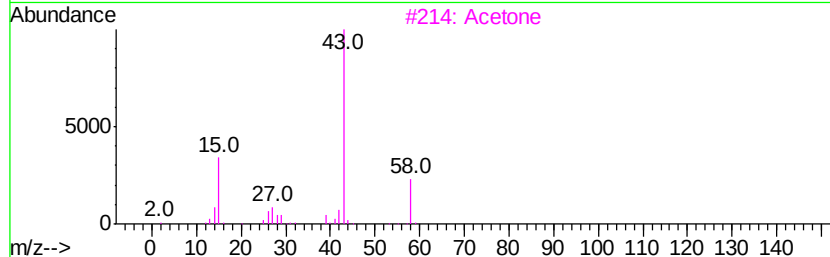
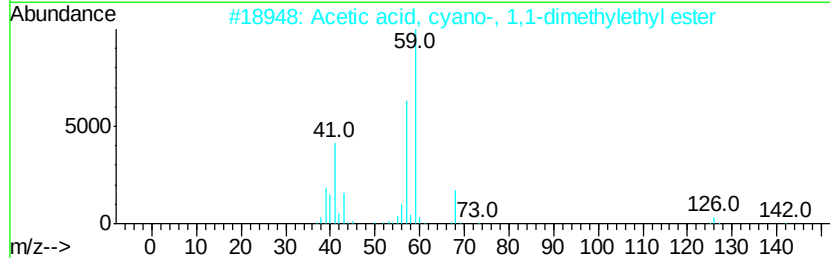
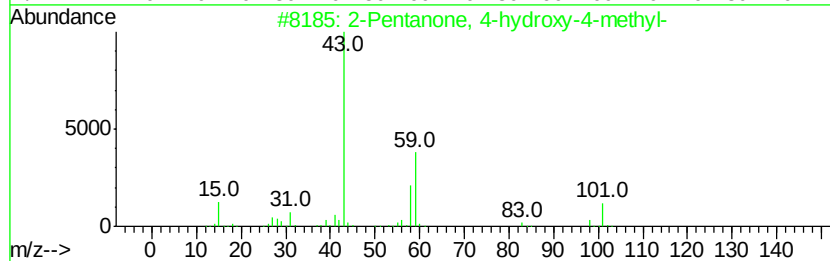
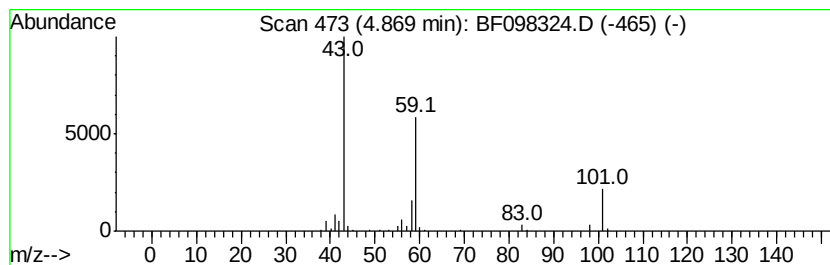
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.87 | 7.24 ng | 242437 | 1,4-Dichlorobenzene-d4 | 6.69 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    |   | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 17   |
| 3    |    |   | Acetone                              | 58  | C3H6O    | 000067-64-1 | 10   |
| 4    |    |   | 5-Hexen-2-one                        | 98  | C6H10O   | 000109-49-9 | 9    |
| 5    |    |   | 2,3-Butanedione, monooxime           | 101 | C4H7NO2  | 000057-71-6 | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

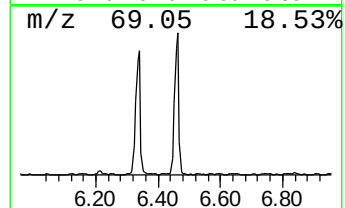
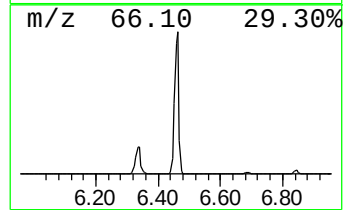
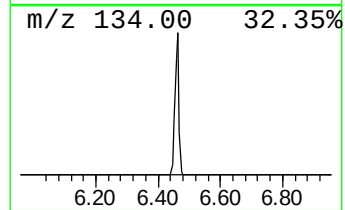
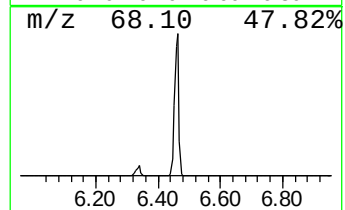
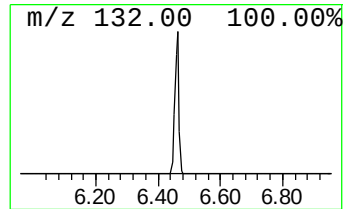
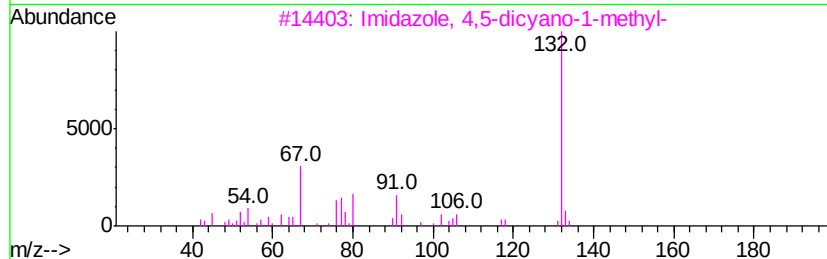
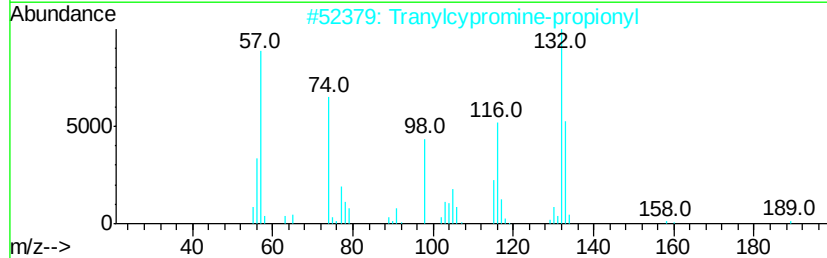
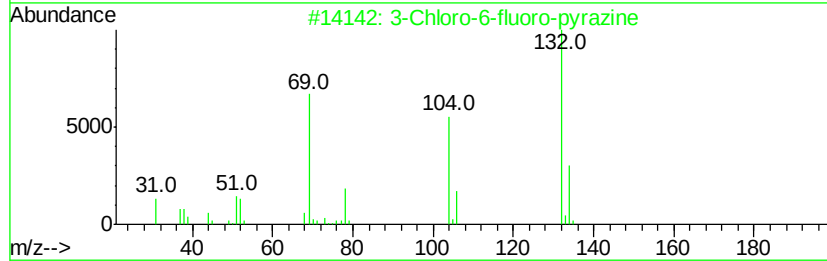
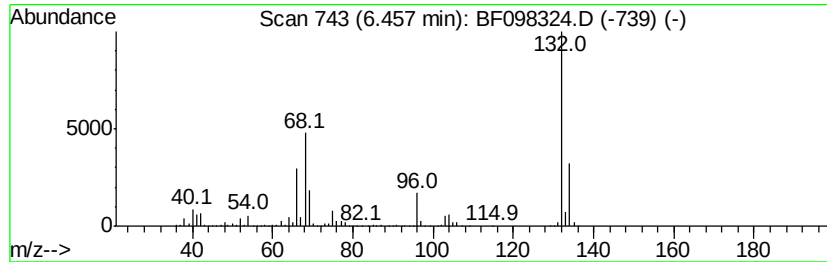
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown6.46 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.46 | 68.61 ng | 2297570 | 1,4-Dichlorobenzene-d4 | 6.69 |

| Hit# | of | Tentative ID                     | MW  | MolForm   | CAS#         | Qual |
|------|----|----------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine       | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Tranylcypromine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | Imidazole, 4,5-dicyano-1-methyl- | 132 | C6H4N4    | 019485-35-9  | 9    |
| 4    |    | 4-Chloro-2-fluoro-pyrimidine     | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    |    | 1,2,4-Trifluorobenzene           | 132 | C6H3F3    | 000367-23-7  | 9    |



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Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

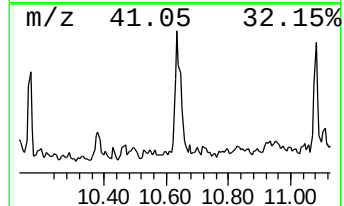
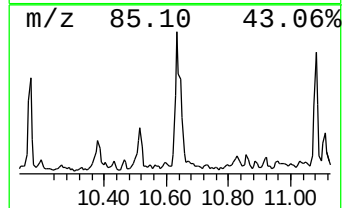
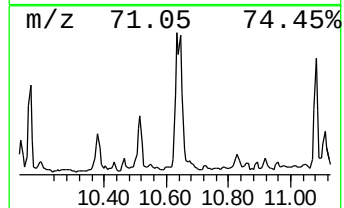
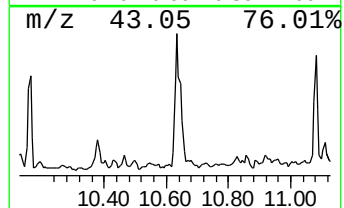
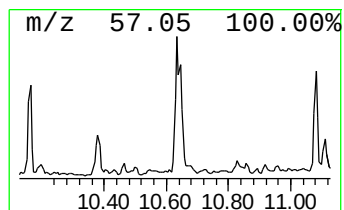
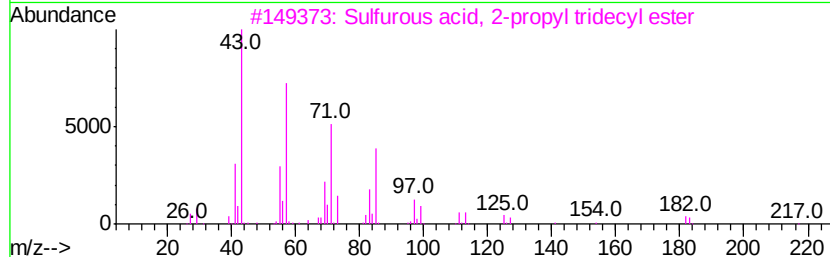
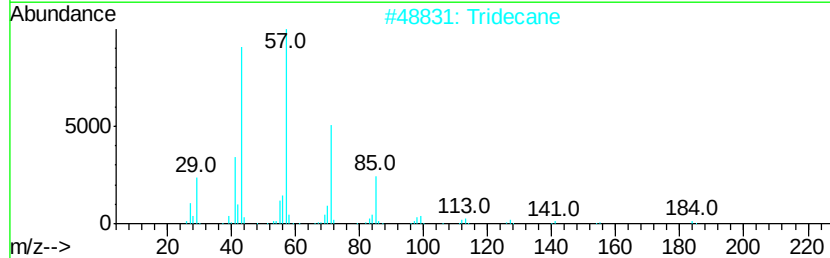
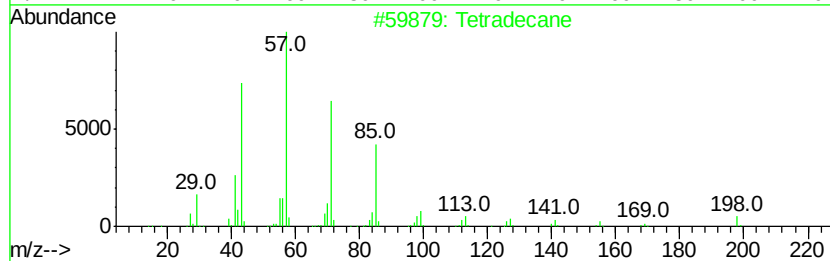
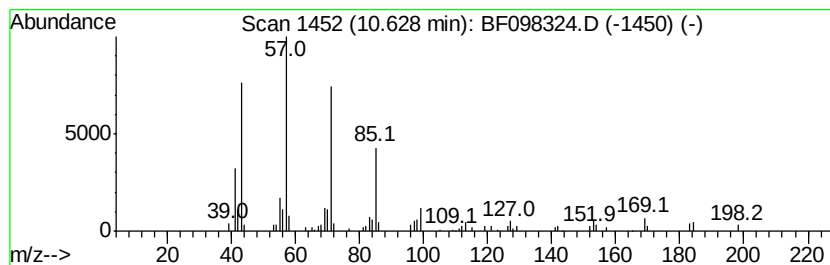
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Tetradecane Concentration Rank 6

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------------|--------|------------------|--------------|------|
| 10.63     | 4.84 ng                              | 207970 | Phenanthrene-d10 | 11.21        |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#         | Qual |
| 1         | Tetradecane                          | 198    | C14H30           | 000629-59-4  | 89   |
| 2         | Tridecane                            | 184    | C13H28           | 000629-50-5  | 80   |
| 3         | Sulfurous acid, 2-propyl tridecyl... | 306    | C16H34O3S        | 1000309-12-4 | 72   |
| 4         | Heptadecane                          | 240    | C17H36           | 000629-78-7  | 68   |
| 5         | Tridecane, 1-iodo-                   | 310    | C13H27I          | 035599-77-0  | 68   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

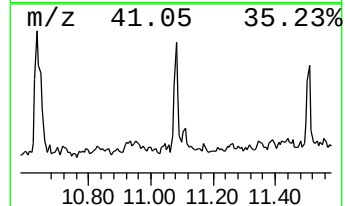
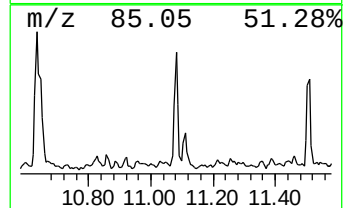
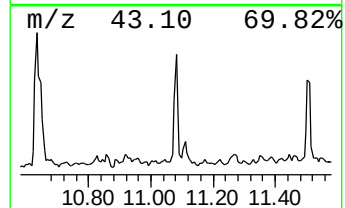
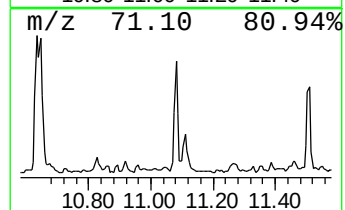
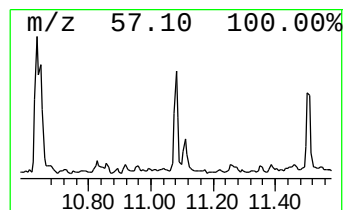
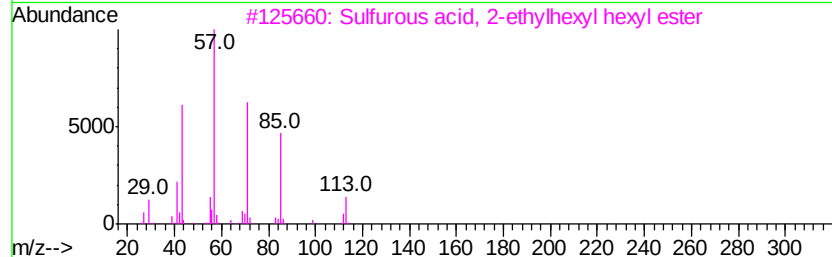
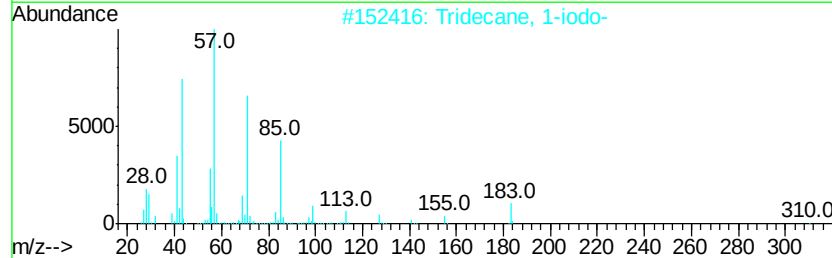
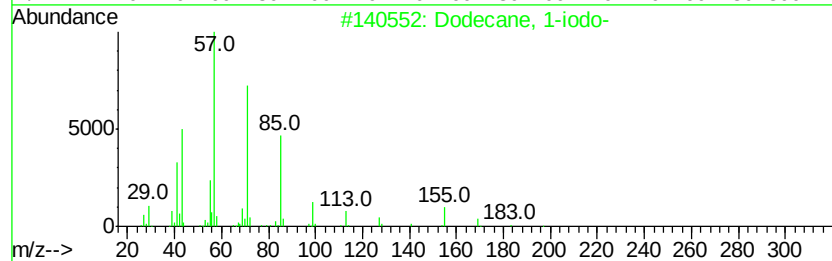
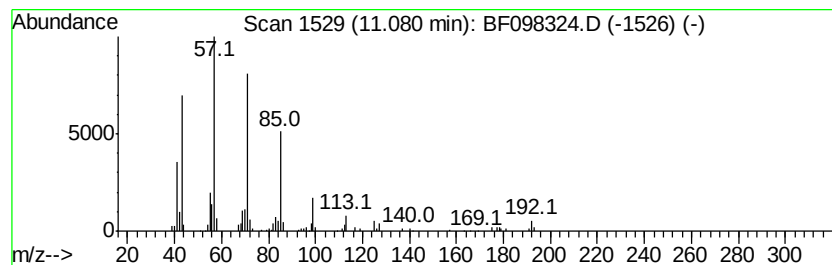
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 Dodecane, 1-iodo- Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.08 | 2.64 ng | 113348 | Phenanthrene-d10 | 11.21 |

| Hit# of | 5                                   | Tentative ID | MW  | MolForm   | CAS#         | Qual |
|---------|-------------------------------------|--------------|-----|-----------|--------------|------|
| 1       | Dodecane, 1-iodo-                   |              | 296 | C12H25I   | 004292-19-7  | 80   |
| 2       | Tridecane, 1-iodo-                  |              | 310 | C13H27I   | 035599-77-0  | 78   |
| 3       | Sulfurous acid, 2-ethylhexyl hex... |              | 278 | C14H30O3S | 1000309-20-2 | 64   |
| 4       | Hexadecane                          |              | 226 | C16H34    | 000544-76-3  | 64   |
| 5       | Heptacosane                         |              | 380 | C27H56    | 000593-49-7  | 64   |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

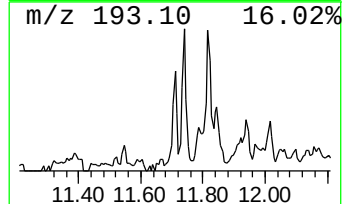
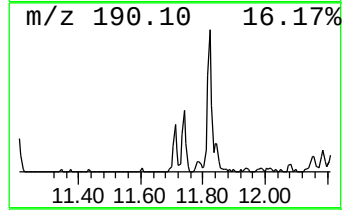
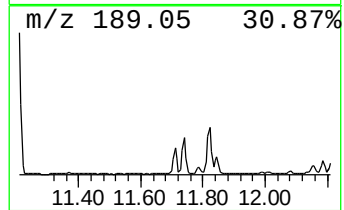
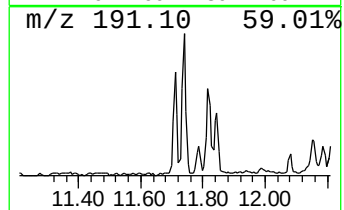
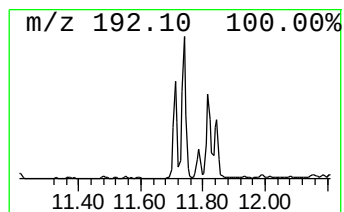
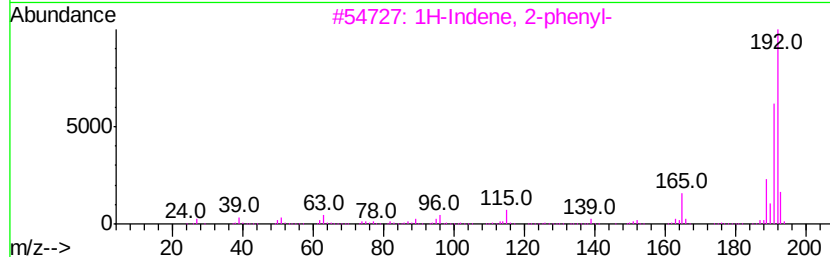
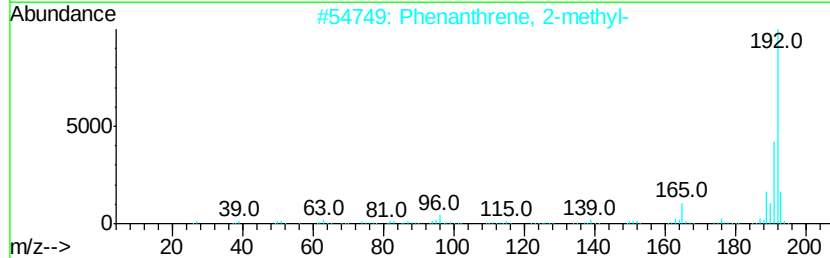
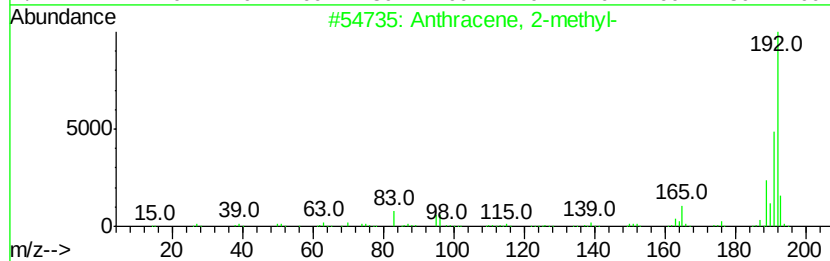
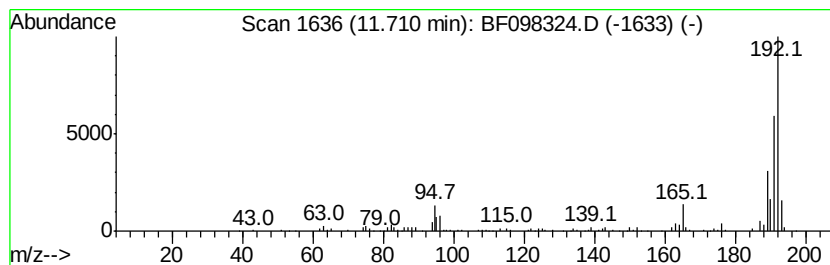
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Anthracene, 2-methyl- Concentration Rank 14

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 11.71 | 2.15 ng | 92274 | Phenanthrene-d10 | 11.21 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 2    |    | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 3    |    | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 94   |
| 4    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 91   |
| 5    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 90   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

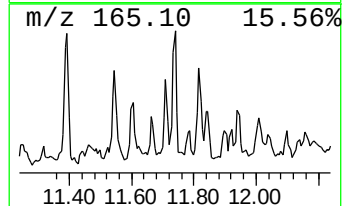
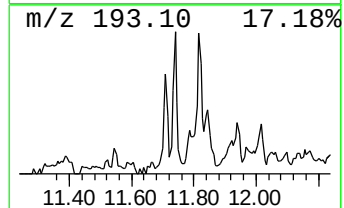
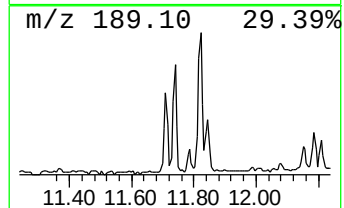
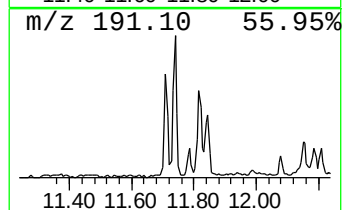
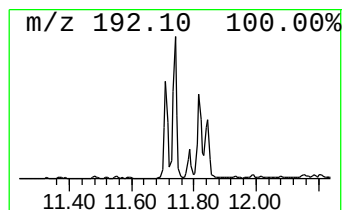
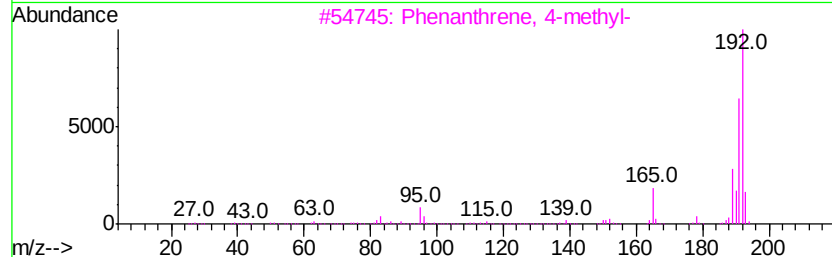
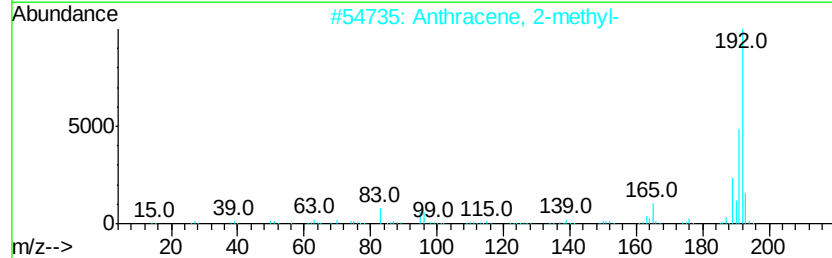
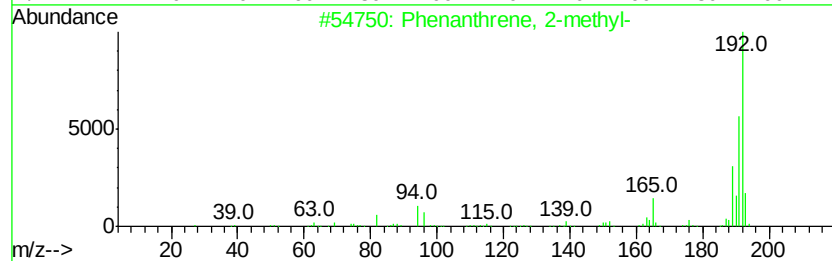
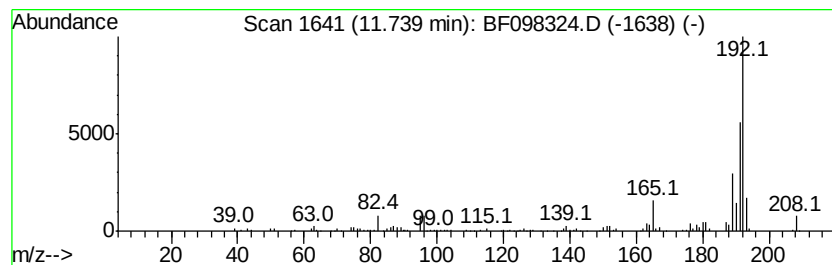
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.74 | 3.58 ng | 153737 | Phenanthrene-d10 | 11.21 |

| Hit# | of | Tentative ID                          | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl-               | 192 | C15H12  | 002531-84-2 | 97   |
| 2    |    | Anthracene, 2-methyl-                 | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    | Phenanthrene, 4-methyl-               | 192 | C15H12  | 000832-64-4 | 95   |
| 4    |    | Anthracene, 1-methyl-                 | 192 | C15H12  | 000610-48-0 | 94   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 93   |



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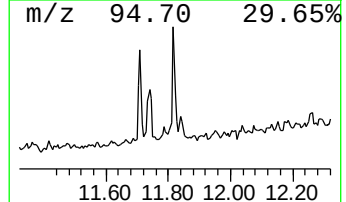
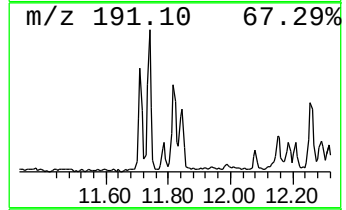
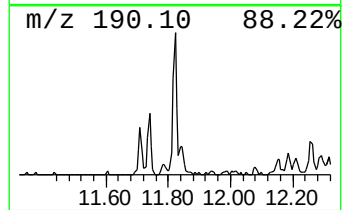
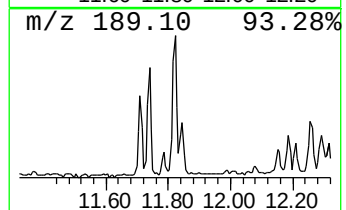
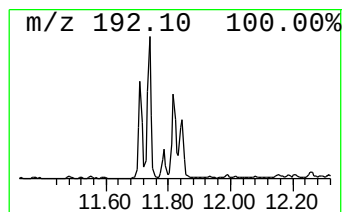
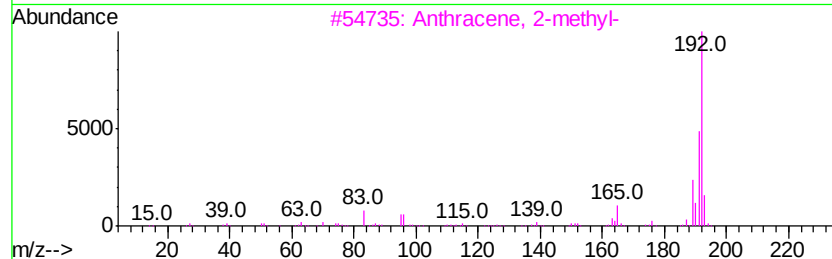
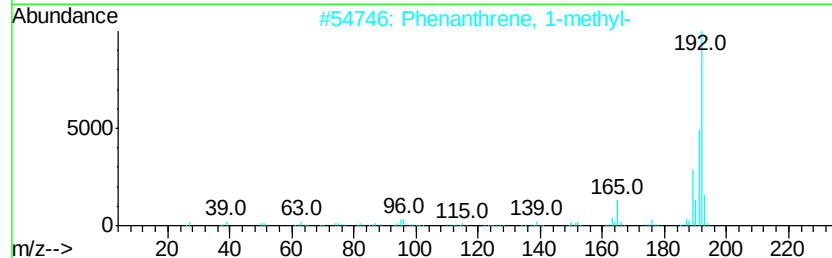
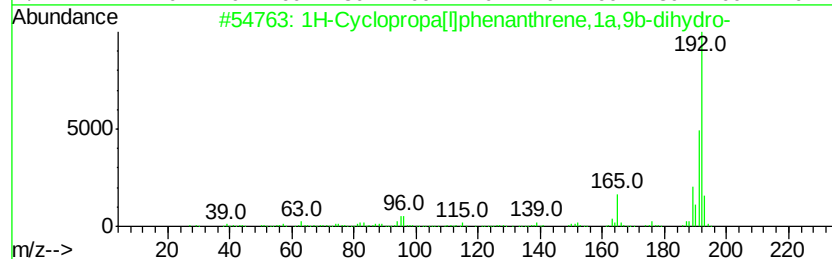
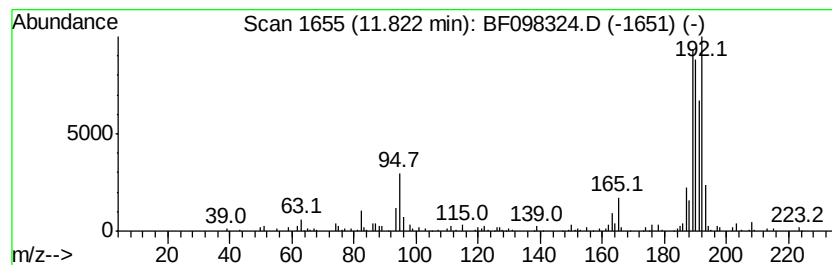
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 8 1H-Cyclopropa[l]phenanthren... Concentration Rank 8

| R.T.      | EstConc                              | Area   | Relative to ISTD | R.T.        |      |
|-----------|--------------------------------------|--------|------------------|-------------|------|
| 11.82     | 3.79 ng                              | 162567 | Phenanthrene-d10 | 11.21       |      |
| Hit# of 5 | Tentative ID                         | MW     | MolForm          | CAS#        | Qual |
| 1         | 1H-Cyclopropa[ll]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 91   |
| 2         | Phenanthrene, 1-methyl-              | 192    | C15H12           | 000832-69-9 | 91   |
| 3         | Anthracene, 2-methyl-                | 192    | C15H12           | 000613-12-7 | 90   |
| 4         | Phenanthrene, 2-methyl-              | 192    | C15H12           | 002531-84-2 | 64   |
| 5         | Anthracene, 9-methyl-                | 192    | C15H12           | 000779-02-2 | 64   |



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Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

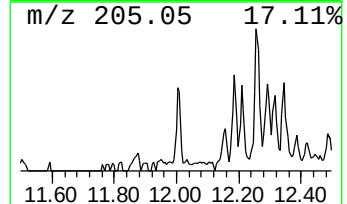
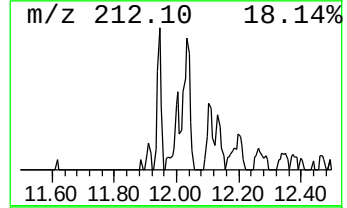
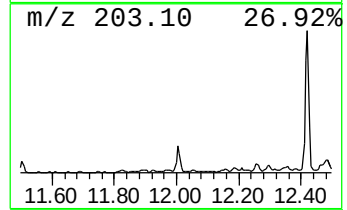
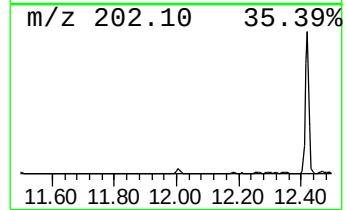
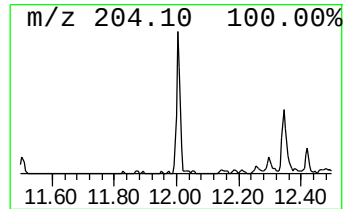
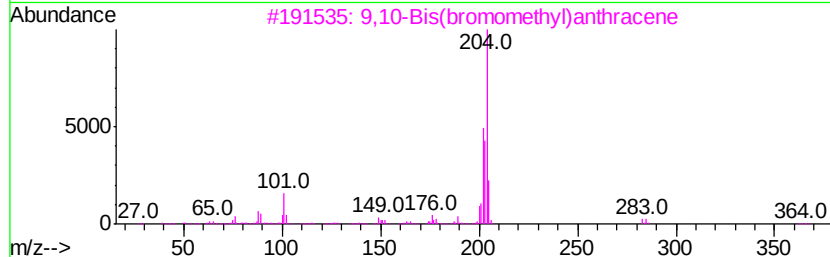
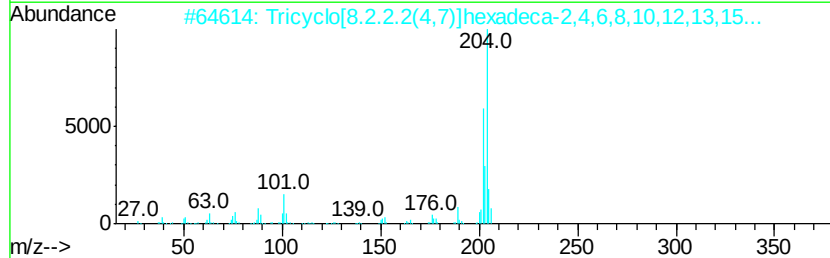
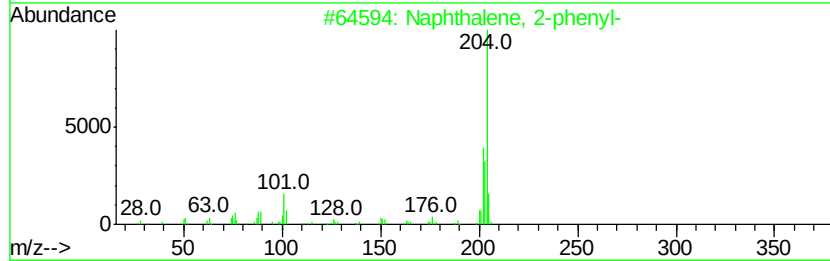
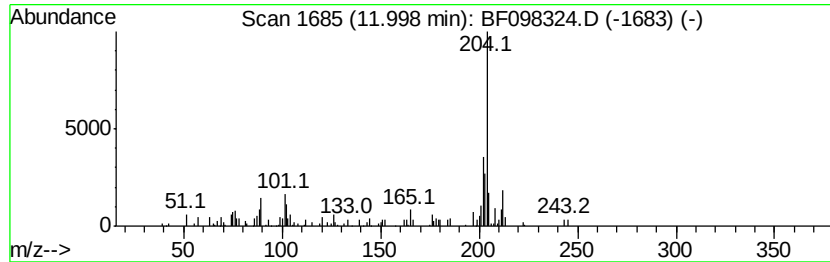
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 13

| R.T.  | EstConc | Area  | Relative to ISTD | R.T.  |
|-------|---------|-------|------------------|-------|
| 12.00 | 2.16 ng | 92595 | Phenanthrene-d10 | 11.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12    | 000612-94-2 | 89   |
| 2    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12    | 006572-60-7 | 86   |
| 3    |    | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 80   |
| 4    |    | 6-Phenylbenzocyclohepten-7-one      | 232 | C17H12O   | 093327-56-1 | 72   |
| 5    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 72   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

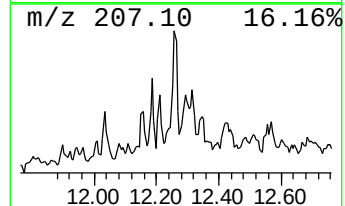
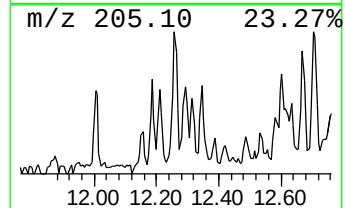
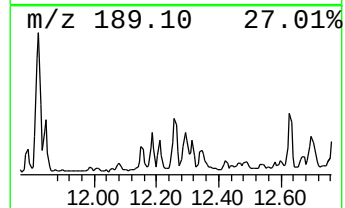
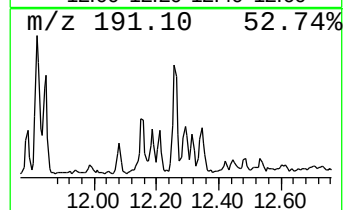
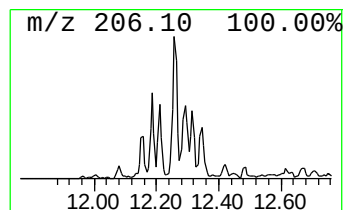
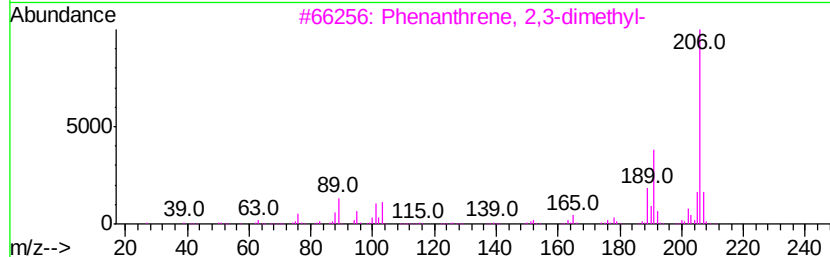
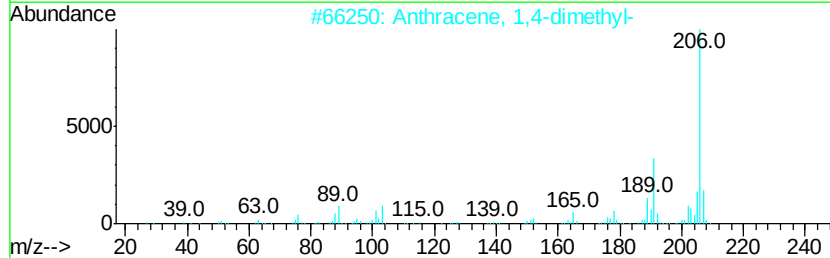
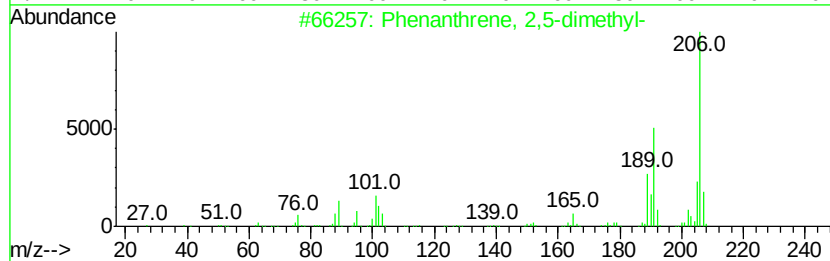
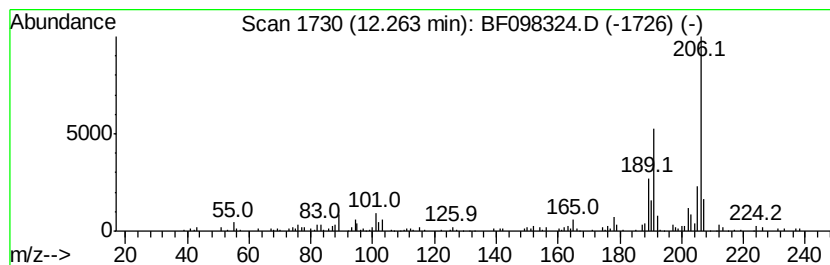
Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 10 Phenanthrene, 2,5-dimethyl- Concentration Rank 11

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 12.26     | 2.72 ng                     | 116639 | Phenanthrene-d10 | 11.21       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 95   |
| 2         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 93   |
| 3         | Phenanthrene, 2,3-dimethyl- | 206    | C16H14           | 003674-65-5 | 91   |
| 4         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 90   |
| 5         | 9,10-Dimethylantracene      | 206    | C16H14           | 000781-43-1 | 90   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

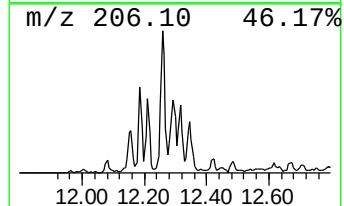
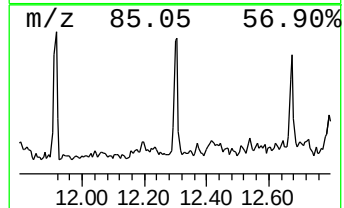
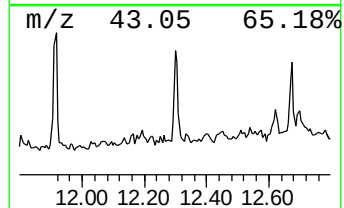
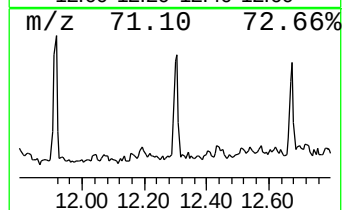
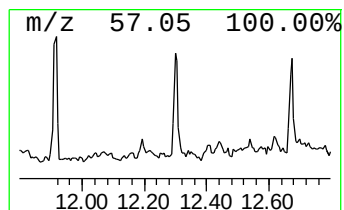
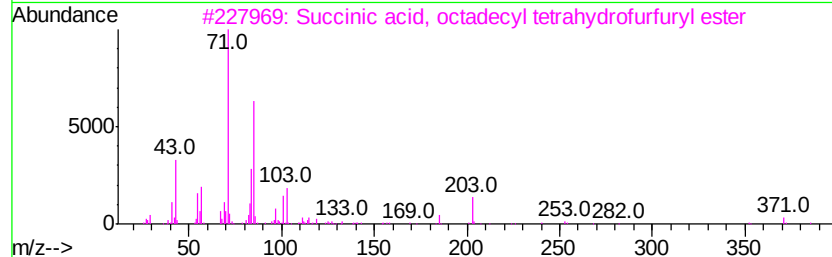
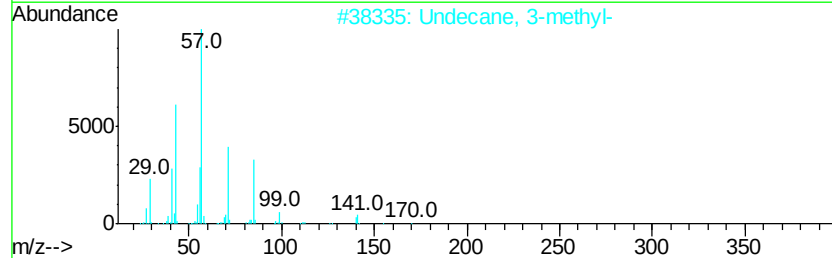
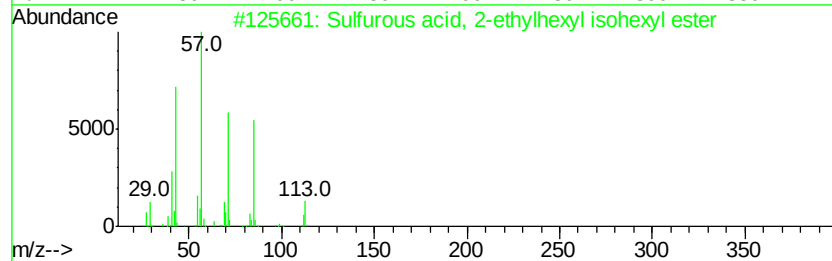
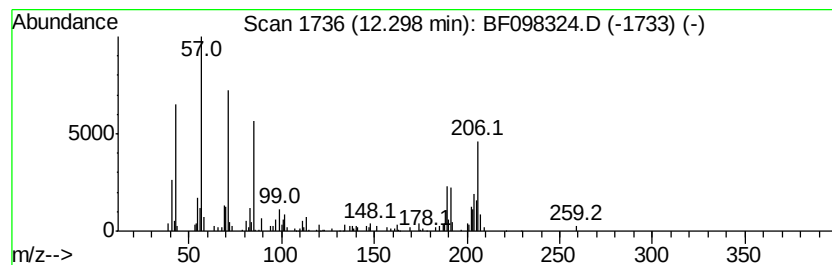
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown12.30 Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.30 | 2.86 ng | 122802 | Phenanthrene-d10 | 11.21 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 27   |
| 2    |    | Undecane, 3-methyl-                 | 170 | C12H26    | 001002-43-3  | 27   |
| 3    |    | Succinic acid, octadecyl tetrahy... | 454 | C27H50O5  | 1000329-87-4 | 27   |
| 4    |    | Heptadecane                         | 240 | C17H36    | 000629-78-7  | 27   |
| 5    |    | Tetracosane                         | 338 | C24H50    | 000646-31-1  | 18   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

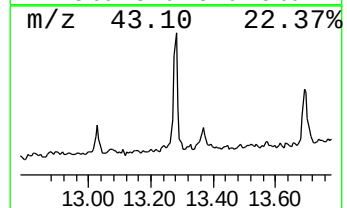
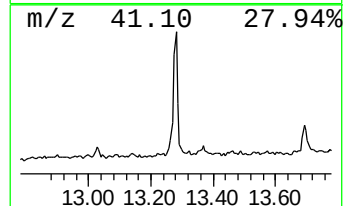
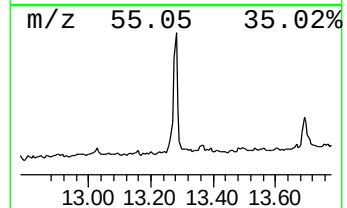
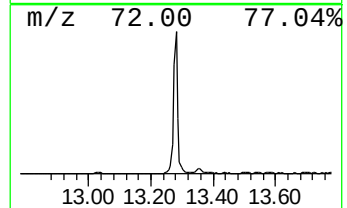
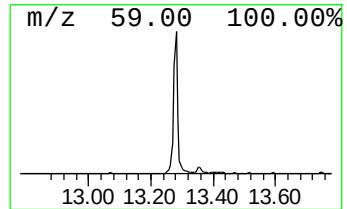
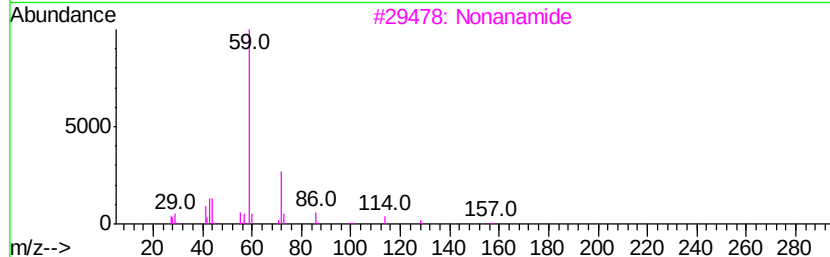
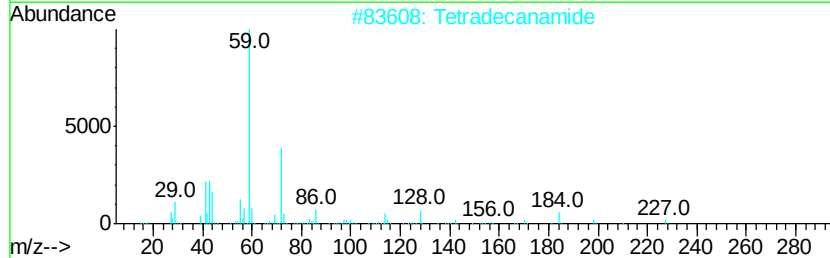
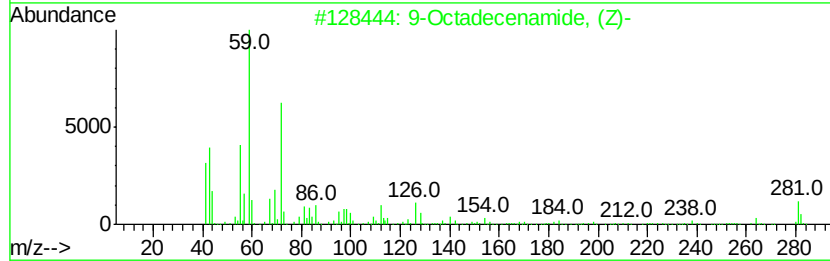
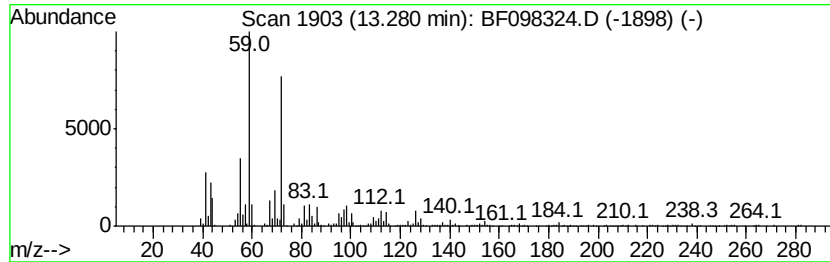
Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 12 9-Octadecenamide, (Z)- Concentration Rank 3

| R.T.      | EstConc                  | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------|--------|------------------|--------------|------|
| 13.28     | 12.40 ng                 | 595490 | Chrysene-d12     | 13.84        |      |
| Hit# of 5 | Tentative ID             | MW     | MolForm          | CAS#         | Qual |
| 1         | 9-Octadecenamide, (Z)-   | 281    | C18H35NO         | 000301-02-0  | 92   |
| 2         | Tetradecanamide          | 227    | C14H29NO         | 000638-58-4  | 56   |
| 3         | Nonanamide               | 157    | C9H19NO          | 001120-07-6  | 47   |
| 4         | Decanamide-              | 171    | C10H21NO         | 002319-29-1  | 47   |
| 5         | 2-Ethoxyethyl heptanoate | 202    | C11H22O3         | 1000367-02-0 | 43   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

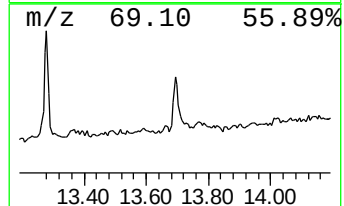
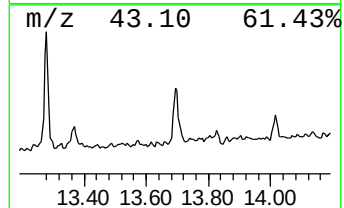
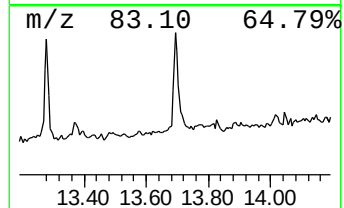
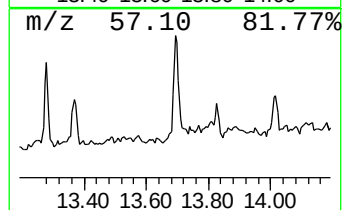
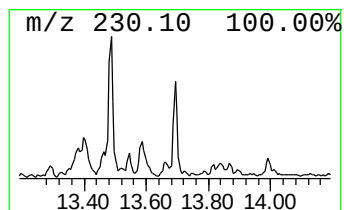
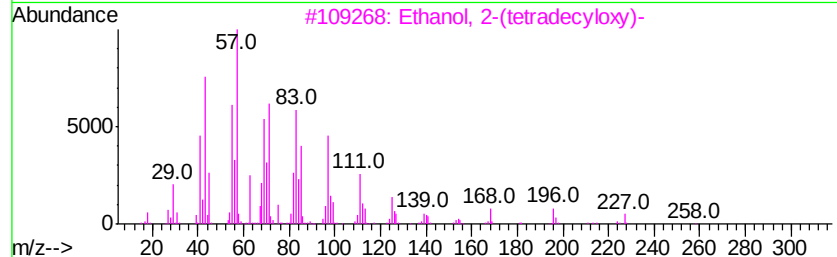
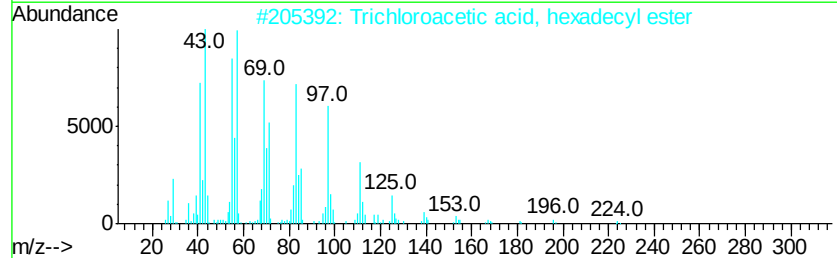
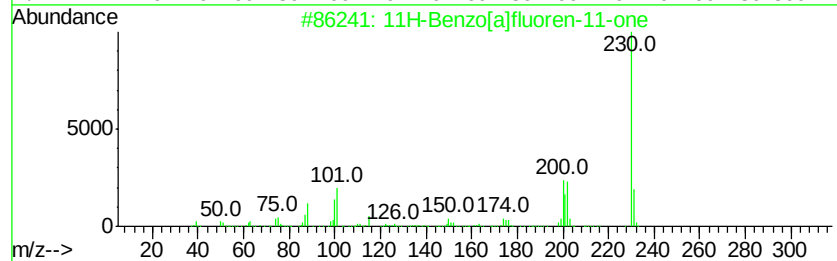
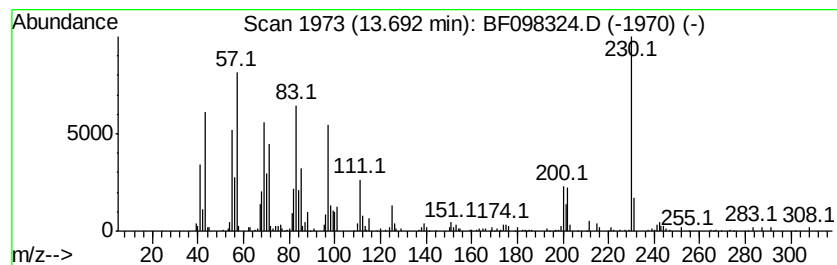
Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.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 13 11H-Benzo[a]fluoren-11-one Concentration Rank 7

| R.T.    | EstConc | Area                                | Relative to ISTD | R.T.        |             |      |
|---------|---------|-------------------------------------|------------------|-------------|-------------|------|
| 13.69   | 4.03 ng | 193705                              | Chrysene-d12     | 13.84       |             |      |
| Hit# of | 5       | Tentative ID                        | MW               | MolForm     | CAS#        | Qual |
| 1       |         | 11H-Benzo[alfluoren-11-one          | 230              | C17H10O     | 000479-79-8 | 80   |
| 2       |         | Trichloroacetic acid, hexadecyl ... | 386              | C18H33Cl3O2 | 074339-54-1 | 55   |
| 3       |         | Ethanol, 2-(tetradecyloxy)-         | 258              | C16H34O2    | 002136-70-1 | 50   |
| 4       |         | Trichloroacetic acid, pentadecyl... | 372              | C17H31Cl3O2 | 074339-53-0 | 49   |
| 5       |         | Heptadecyl heptafluorobutyrate      | 452              | C21H35F7O2  | 959085-66-6 | 49   |





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090717\  
Data File : BF098324.D  
Acq On : 7 Sep 2017 20:09  
Operator : SJ/JU  
Sample : I5053-06  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

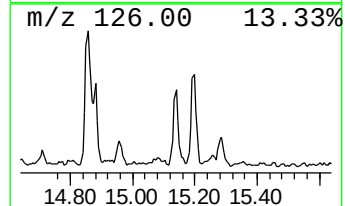
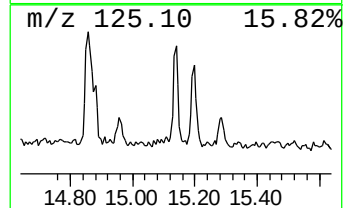
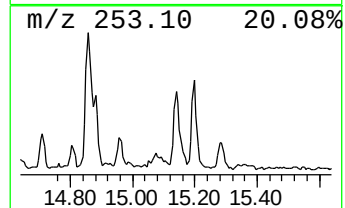
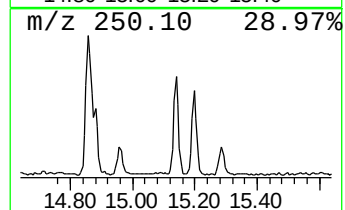
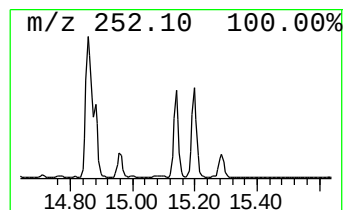
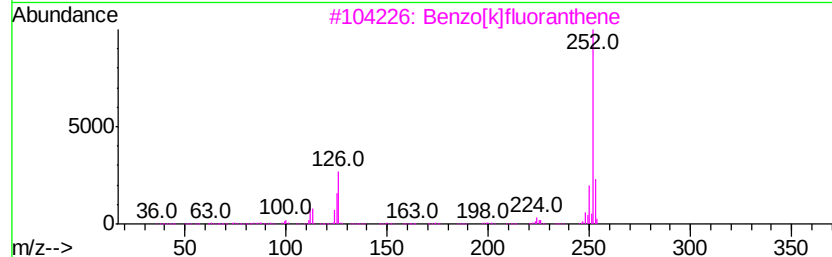
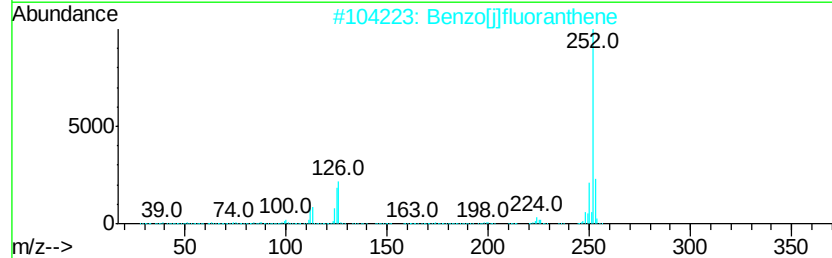
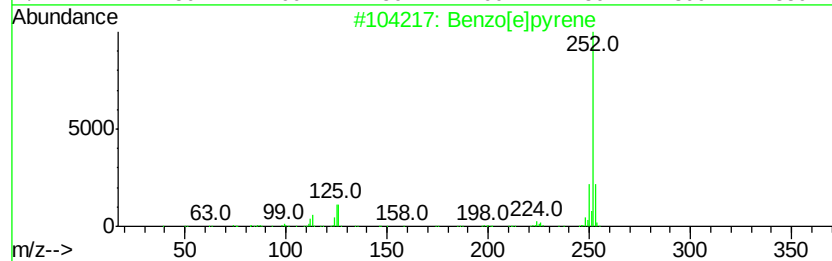
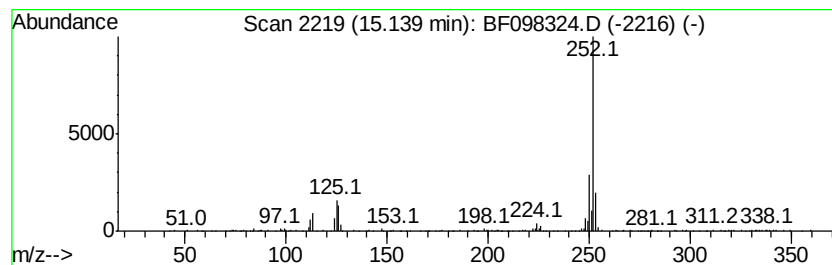
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 Benzo[e]pyrene Concentration Rank 5

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.14 | 5.44 ng | 153286 | Perylene-d12     | 15.26 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 98   |
| 2    |    | Benzo[i]fluoranthene      | 252 | C20H12  | 000205-82-3 | 95   |
| 3    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 91   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF090717\  
 Data File : BF098324.D  
 Acq On : 7 Sep 2017 20:09  
 Operator : SJ/JU  
 Sample : I5053-06  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 G-62A-1.5-3

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF081517.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...  | 4.87  | 7.2     | ng    | 242437   | 1                     | 6.69  | 669714 | 20.0 |
| unknown6.46           | 6.46  | 68.6    | ng    | 2297570  | 1                     | 6.69  | 669714 | 20.0 |
| Tetradecane           | 10.63 | 4.8     | ng    | 207970   | 4                     | 11.21 | 858973 | 20.0 |
| Dodecane, 1-iodo-     | 11.08 | 2.6     | ng    | 113348   | 4                     | 11.21 | 858973 | 20.0 |
| Anthracene, 2-met...  | 11.71 | 2.1     | ng    | 92274    | 4                     | 11.21 | 858973 | 20.0 |
| Phenanthrene, 2-m...  | 11.74 | 3.6     | ng    | 153737   | 4                     | 11.21 | 858973 | 20.0 |
| 1H-Cyclopropa[l]p...  | 11.82 | 3.8     | ng    | 162567   | 4                     | 11.21 | 858973 | 20.0 |
| Naphthalene, 2-ph...  | 12.00 | 2.2     | ng    | 92595    | 4                     | 11.21 | 858973 | 20.0 |
| Phenanthrene, 2,5...  | 12.26 | 2.7     | ng    | 116639   | 4                     | 11.21 | 858973 | 20.0 |
| unknown12.30          | 12.30 | 2.9     | ng    | 122802   | 4                     | 11.21 | 858973 | 20.0 |
| 9-Octadecenamide, ... | 13.28 | 12.4    | ng    | 595490   | 5                     | 13.84 | 960707 | 20.0 |
| 11H-Benzo[a]fluor...  | 13.69 | 4.0     | ng    | 193705   | 5                     | 13.84 | 960707 | 20.0 |
| Benzo[e]pyrene        | 15.14 | 5.4     | ng    | 153286   | 6                     | 15.26 | 564006 | 20.0 |