

Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF090117\  
 Data File : BF098219.D  
 Acq On : 1 Sep 2017 11:51  
 Operator : SJ/JU  
 Sample : I5024-10 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-082917-D

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         | 4.892       | 474           | 477         | 493          | rBB      | 43073          | 54340         | 2.26%           | 0.168%        |
| 2         | 5.322       | 546           | 550         | 564          | rBV      | 740227         | 722832        | 30.07%          | 2.237%        |
| 3         | 6.357       | 722           | 726         | 739          | rVB      | 825213         | 774379        | 32.21%          | 2.397%        |
| 4         | 6.486       | 744           | 748         | 751          | rBV      | 915789         | 760887        | 31.65%          | 2.355%        |
| 5         | 6.716       | 784           | 787         | 791          | rBV      | 898414         | 742366        | 30.88%          | 2.298%        |
| 6         | 6.875       | 810           | 814         | 817          | rBV      | 633261         | 574552        | 23.90%          | 1.778%        |
| 7         | 7.281       | 879           | 883         | 895          | rBV      | 548968         | 450921        | 18.76%          | 1.396%        |
| 8         | 8.004       | 1002          | 1006        | 1008         | rBV      | 1041994        | 1013769       | 42.17%          | 3.138%        |
| 9         | 8.022       | 1008          | 1009        | 1015         | rVB      | 370913         | 229907        | 9.56%           | 0.712%        |
| 10        | 8.716       | 1123          | 1127        | 1133         | rBV      | 185645         | 166767        | 6.94%           | 0.516%        |
| 11        | 8.810       | 1139          | 1143        | 1153         | rVB      | 192964         | 165549        | 6.89%           | 0.512%        |
| 12        | 9.075       | 1184          | 1188        | 1199         | rVB      | 1056915        | 832808        | 34.64%          | 2.578%        |
| 13        | 9.175       | 1203          | 1205        | 1211         | rVB      | 62388          | 53131         | 2.21%           | 0.164%        |
| 14        | 9.339       | 1229          | 1233        | 1237         | rBV2     | 82840          | 112035        | 4.66%           | 0.347%        |
| 15        | 9.410       | 1241          | 1245        | 1248         | rBV      | 163135         | 163944        | 6.82%           | 0.507%        |
| 16        | 9.439       | 1248          | 1250        | 1253         | rVV      | 106277         | 85080         | 3.54%           | 0.263%        |
| 17        | 9.475       | 1253          | 1256        | 1260         | rVV      | 126184         | 112361        | 4.67%           | 0.348%        |
| 18        | 9.527       | 1262          | 1265        | 1271         | rVB      | 80680          | 87311         | 3.63%           | 0.270%        |
| 19        | 9.610       | 1276          | 1279        | 1283         | rVB      | 164881         | 146569        | 6.10%           | 0.454%        |
| 20        | 9.751       | 1298          | 1303        | 1306         | rBV      | 1105186        | 1001868       | 41.67%          | 3.101%        |
| 21        | 9.786       | 1306          | 1309        | 1312         | rVV      | 342809         | 310468        | 12.91%          | 0.961%        |
| 22        | 9.957       | 1334          | 1338        | 1342         | rVV      | 402909         | 345586        | 14.37%          | 1.070%        |
| 23        | 9.992       | 1342          | 1344        | 1348         | rVB      | 62664          | 52460         | 2.18%           | 0.162%        |
| 24        | 10.069      | 1353          | 1357        | 1359         | rBV2     | 59796          | 55872         | 2.32%           | 0.173%        |
| 25        | 10.098      | 1359          | 1362        | 1368         | rVB      | 52177          | 46476         | 1.93%           | 0.144%        |
| 26        | 10.157      | 1368          | 1372        | 1374         | rBV      | 44252          | 56212         | 2.34%           | 0.174%        |
| 27        | 10.298      | 1393          | 1396        | 1402         | rVB      | 735117         | 602770        | 25.07%          | 1.866%        |
| 28        | 10.457      | 1420          | 1423        | 1426         | rVB      | 108576         | 93976         | 3.91%           | 0.291%        |
| 29        | 10.539      | 1431          | 1437        | 1441         | rBV      | 502911         | 502965        | 20.92%          | 1.557%        |
| 30        | 10.663      | 1454          | 1458        | 1464         | rVB4     | 59872          | 71757         | 2.98%           | 0.222%        |
| 31        | 10.845      | 1483          | 1489        | 1492         | rBV2     | 127118         | 162245        | 6.75%           | 0.502%        |
| 32        | 10.869      | 1492          | 1493        | 1497         | rVB      | 59771          | 47948         | 1.99%           | 0.148%        |
| 33        | 10.927      | 1500          | 1503        | 1506         | rVB      | 62299          | 52513         | 2.18%           | 0.163%        |
| 34        | 10.974      | 1506          | 1511        | 1513         | rBV2     | 48342          | 62283         | 2.59%           | 0.193%        |

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Instrument :  
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 ClientSampleId :  
 CL-01-082917-D

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 | 11.039 | 1519 | 1522 | 1526 | rVB  | 95841   | 92266   | 3.84%   | 0.286% |
| 36 | 11.080 | 1526 | 1529 | 1532 | rVV  | 46967   | 58573   | 2.44%   | 0.181% |
| 37 | 11.127 | 1535 | 1537 | 1544 | rVB  | 223049  | 212046  | 8.82%   | 0.656% |
| 38 | 11.233 | 1551 | 1555 | 1557 | rBV  | 829679  | 812196  | 33.78%  | 2.514% |
| 39 | 11.263 | 1557 | 1560 | 1563 | rVV  | 2758792 | 2404206 | 100.00% | 7.442% |
| 40 | 11.310 | 1563 | 1568 | 1571 | rVV  | 772714  | 652076  | 27.12%  | 2.018% |
| 41 | 11.345 | 1571 | 1574 | 1577 | rVV  | 77112   | 75437   | 3.14%   | 0.234% |
| 42 | 11.469 | 1592 | 1595 | 1598 | rVB  | 397487  | 310257  | 12.90%  | 0.960% |
| 43 | 11.527 | 1602 | 1605 | 1609 | rBV2 | 77846   | 78825   | 3.28%   | 0.244% |
| 44 | 11.563 | 1609 | 1611 | 1616 | rVB3 | 75876   | 77715   | 3.23%   | 0.241% |
| 45 | 11.645 | 1622 | 1625 | 1630 | rVB  | 48447   | 53318   | 2.22%   | 0.165% |
| 46 | 11.733 | 1635 | 1640 | 1643 | rBV  | 338891  | 322729  | 13.42%  | 0.999% |
| 47 | 11.763 | 1643 | 1645 | 1649 | rVB  | 461923  | 350952  | 14.60%  | 1.086% |
| 48 | 11.810 | 1650 | 1653 | 1656 | rBV  | 138345  | 118681  | 4.94%   | 0.367% |
| 49 | 11.845 | 1656 | 1659 | 1662 | rVV  | 563215  | 588034  | 24.46%  | 1.820% |
| 50 | 11.868 | 1662 | 1663 | 1668 | rVB  | 229157  | 135563  | 5.64%   | 0.420% |
| 51 | 11.916 | 1668 | 1671 | 1673 | rBV2 | 45704   | 43348   | 1.80%   | 0.134% |
| 52 | 12.027 | 1688 | 1690 | 1693 | rVV  | 183981  | 172725  | 7.18%   | 0.535% |
| 53 | 12.057 | 1693 | 1695 | 1698 | rVB2 | 108117  | 88846   | 3.70%   | 0.275% |
| 54 | 12.180 | 1713 | 1716 | 1718 | rVB  | 43801   | 39947   | 1.66%   | 0.124% |
| 55 | 12.210 | 1718 | 1721 | 1723 | rBV  | 70296   | 58172   | 2.42%   | 0.180% |
| 56 | 12.233 | 1723 | 1725 | 1728 | rVB  | 60884   | 48075   | 2.00%   | 0.149% |
| 57 | 12.280 | 1728 | 1733 | 1736 | rBV  | 151877  | 185019  | 7.70%   | 0.573% |
| 58 | 12.321 | 1736 | 1740 | 1742 | rVV2 | 102692  | 122447  | 5.09%   | 0.379% |
| 59 | 12.368 | 1745 | 1748 | 1753 | rBV2 | 95620   | 121907  | 5.07%   | 0.377% |
| 60 | 12.451 | 1757 | 1762 | 1765 | rBV  | 2071989 | 2000225 | 83.20%  | 6.191% |
| 61 | 12.510 | 1770 | 1772 | 1774 | rVB2 | 51572   | 40437   | 1.68%   | 0.125% |
| 62 | 12.539 | 1774 | 1777 | 1780 | rVB  | 74813   | 62875   | 2.62%   | 0.195% |
| 63 | 12.592 | 1780 | 1786 | 1790 | rBV2 | 96747   | 159539  | 6.64%   | 0.494% |
| 64 | 12.674 | 1794 | 1800 | 1803 | rBV  | 1750008 | 1872804 | 77.90%  | 5.797% |
| 65 | 12.721 | 1806 | 1808 | 1813 | rVB2 | 92942   | 108628  | 4.52%   | 0.336% |
| 66 | 12.792 | 1816 | 1820 | 1821 | rBV  | 119960  | 109483  | 4.55%   | 0.339% |
| 67 | 12.815 | 1821 | 1824 | 1831 | rVB2 | 627895  | 654531  | 27.22%  | 2.026% |
| 68 | 12.892 | 1831 | 1837 | 1840 | rBV3 | 134676  | 223947  | 9.31%   | 0.693% |
| 69 | 12.921 | 1840 | 1842 | 1844 | rVB  | 67646   | 49411   | 2.06%   | 0.153% |
| 70 | 12.974 | 1848 | 1851 | 1853 | rBV3 | 99679   | 121477  | 5.05%   | 0.376% |
| 71 | 12.998 | 1853 | 1855 | 1858 | rVB  | 348899  | 306227  | 12.74%  | 0.948% |

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Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-082917-D

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-BF081517.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.068 | 1858 | 1867 | 1869 | rBV  | 303512  | 341452  | 14.20% | 1.057% |
| 73  | 13.104 | 1869 | 1873 | 1876 | rVV2 | 192387  | 193068  | 8.03%  | 0.598% |
| 74  | 13.192 | 1886 | 1888 | 1891 | rVB  | 94286   | 78692   | 3.27%  | 0.244% |
| 75  | 13.227 | 1891 | 1894 | 1897 | rBV  | 103330  | 103579  | 4.31%  | 0.321% |
| 76  | 13.480 | 1934 | 1937 | 1939 | rBV2 | 53707   | 59996   | 2.50%  | 0.186% |
| 77  | 13.504 | 1939 | 1941 | 1946 | rVB  | 91034   | 113841  | 4.74%  | 0.352% |
| 78  | 13.615 | 1955 | 1960 | 1962 | rBV2 | 166289  | 194596  | 8.09%  | 0.602% |
| 79  | 13.645 | 1962 | 1965 | 1967 | rVB  | 109242  | 88582   | 3.68%  | 0.274% |
| 80  | 13.668 | 1967 | 1969 | 1970 | rBV  | 83159   | 63864   | 2.66%  | 0.198% |
| 81  | 13.715 | 1975 | 1977 | 1981 | rVB2 | 115206  | 110038  | 4.58%  | 0.341% |
| 82  | 13.862 | 1995 | 2002 | 2005 | rBV2 | 1177154 | 1756938 | 73.08% | 5.438% |
| 83  | 13.892 | 2005 | 2007 | 2015 | rVB  | 764847  | 788533  | 32.80% | 2.441% |
| 84  | 13.974 | 2018 | 2021 | 2023 | rVB  | 117123  | 97903   | 4.07%  | 0.303% |
| 85  | 14.009 | 2025 | 2027 | 2029 | rBV  | 57406   | 54281   | 2.26%  | 0.168% |
| 86  | 14.062 | 2034 | 2036 | 2037 | rVV  | 78163   | 62200   | 2.59%  | 0.193% |
| 87  | 14.098 | 2040 | 2042 | 2044 | rVB  | 94495   | 75398   | 3.14%  | 0.233% |
| 88  | 14.251 | 2066 | 2068 | 2071 | rVB  | 153177  | 146381  | 6.09%  | 0.453% |
| 89  | 14.286 | 2072 | 2074 | 2077 | rVB  | 86676   | 67900   | 2.82%  | 0.210% |
| 90  | 14.345 | 2081 | 2084 | 2087 | rVV3 | 115608  | 120834  | 5.03%  | 0.374% |
| 91  | 14.374 | 2087 | 2089 | 2091 | rVV  | 102469  | 95260   | 3.96%  | 0.295% |
| 92  | 14.398 | 2091 | 2093 | 2096 | rVB2 | 116512  | 95675   | 3.98%  | 0.296% |
| 93  | 14.886 | 2171 | 2176 | 2178 | rBV  | 690049  | 967834  | 40.26% | 2.996% |
| 94  | 14.980 | 2190 | 2192 | 2196 | rVB  | 154858  | 148857  | 6.19%  | 0.461% |
| 95  | 15.168 | 2220 | 2224 | 2229 | rVB  | 378254  | 477316  | 19.85% | 1.477% |
| 96  | 15.227 | 2230 | 2234 | 2239 | rVV  | 642669  | 734150  | 30.54% | 2.272% |
| 97  | 15.286 | 2240 | 2244 | 2247 | rVV  | 561219  | 691570  | 28.77% | 2.141% |
| 98  | 15.315 | 2247 | 2249 | 2254 | rVB2 | 226276  | 237354  | 9.87%  | 0.735% |
| 99  | 16.656 | 2472 | 2477 | 2484 | rVB2 | 223766  | 392595  | 16.33% | 1.215% |
| 100 | 17.068 | 2542 | 2547 | 2557 | rVB  | 145728  | 299710  | 12.47% | 0.928% |

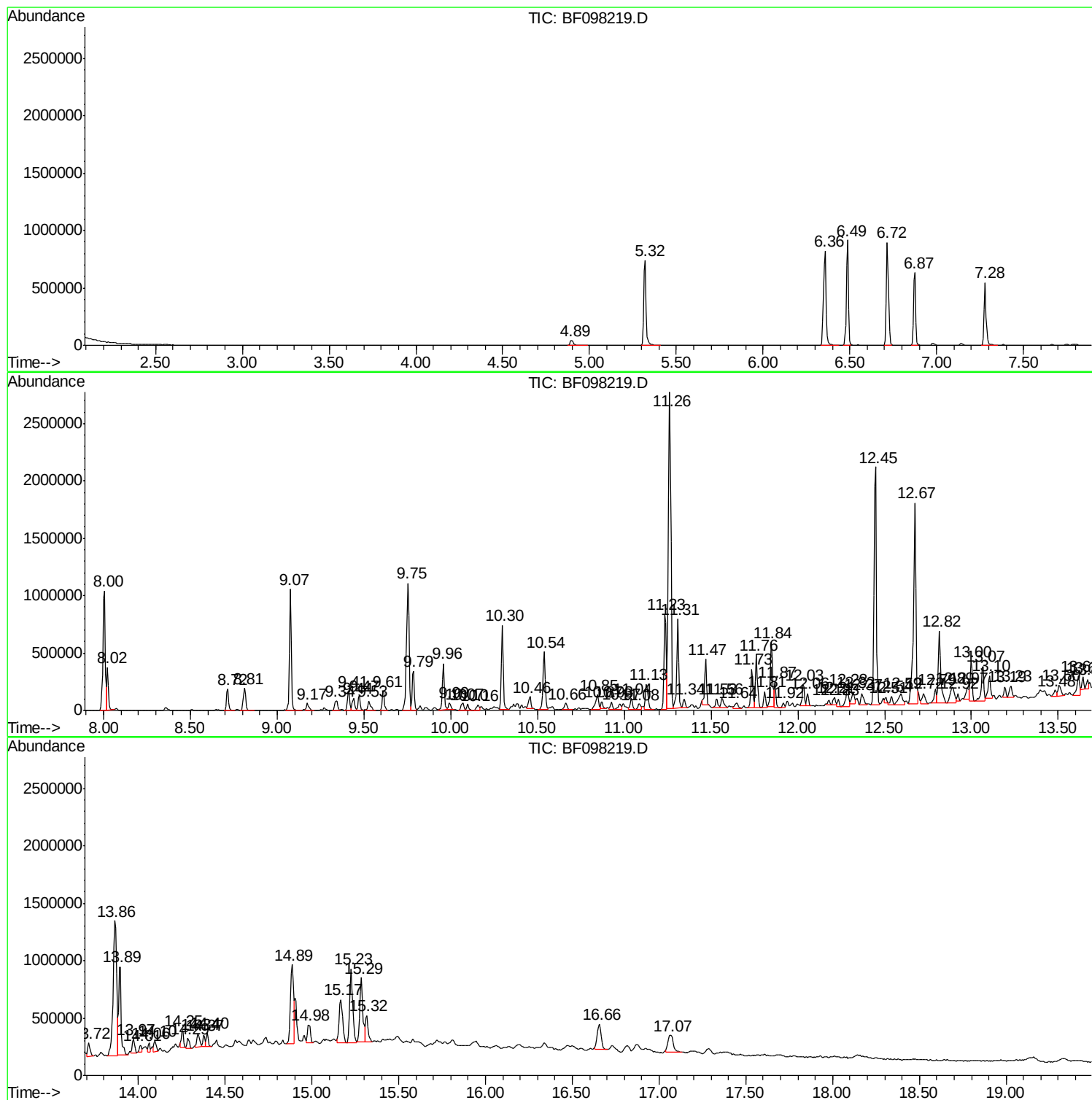
Sum of corrected areas: 32306248

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ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-082917-D

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\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
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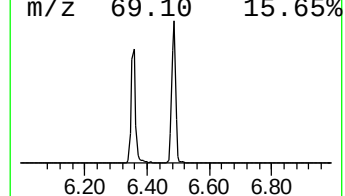
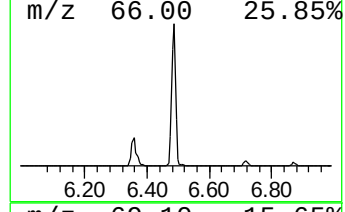
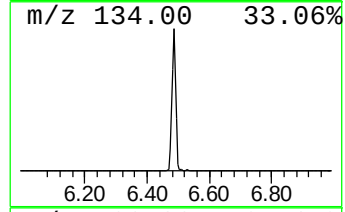
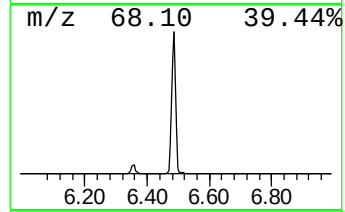
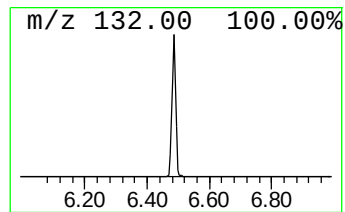
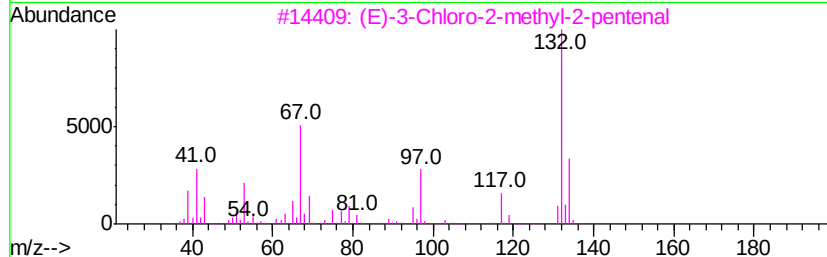
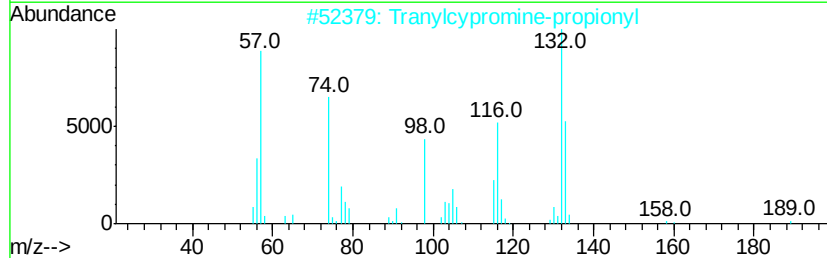
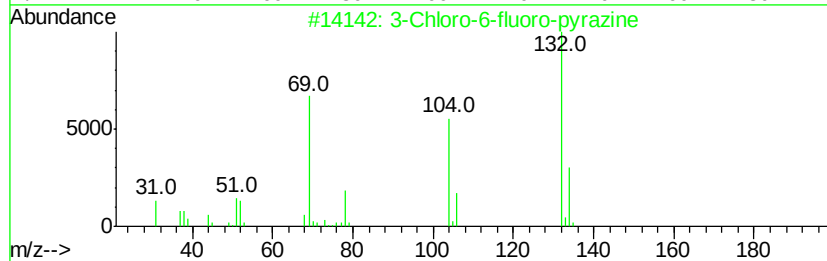
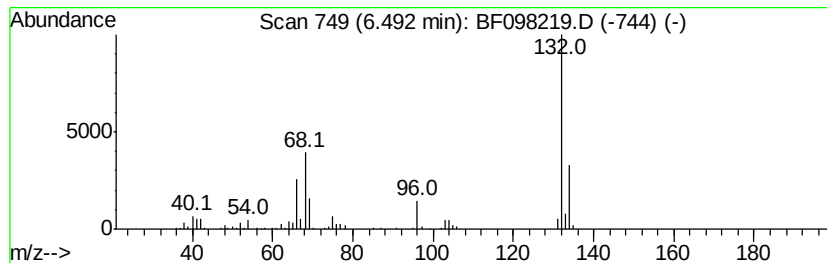
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.49 | 20.50 ng | 760887 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 25   |
| 2    |    | Tranylcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |



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

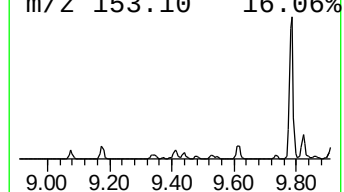
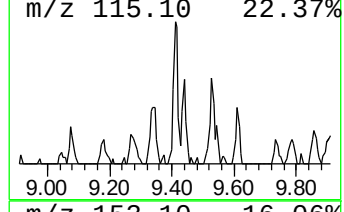
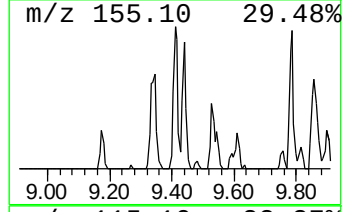
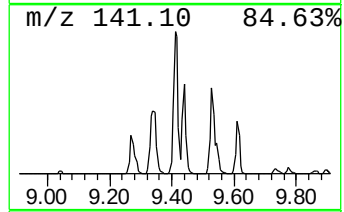
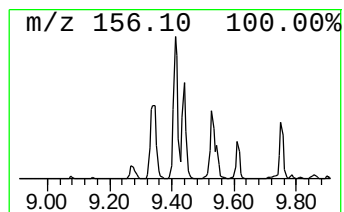
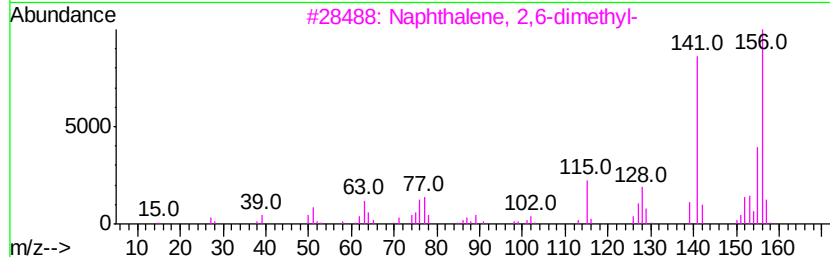
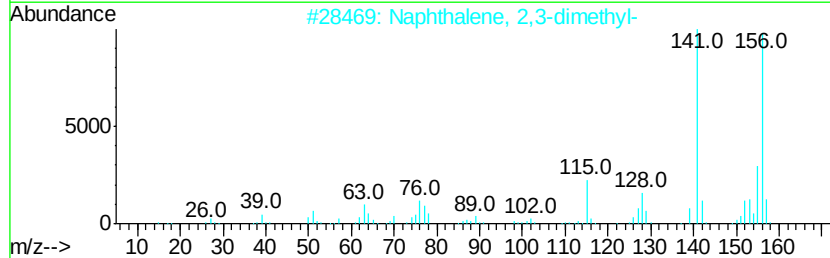
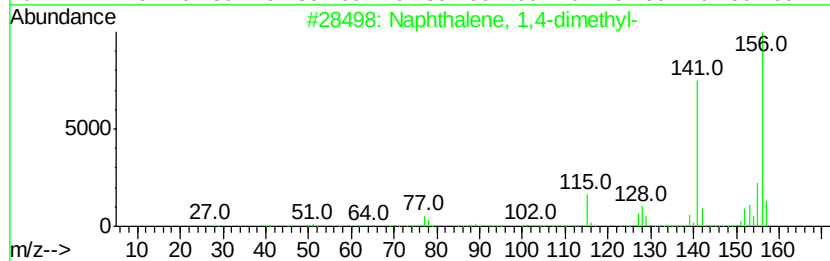
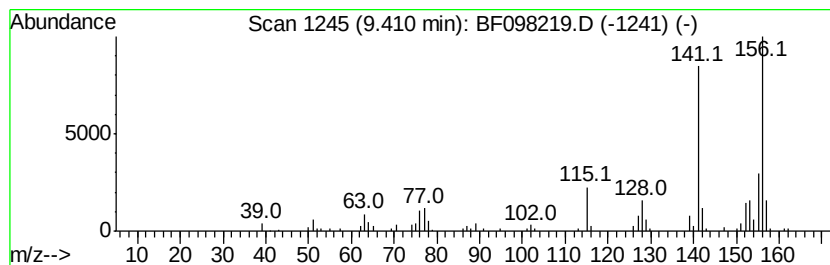
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Naphthalene, 1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area   | Relative to ISTD | R.T. |
|------|---------|--------|------------------|------|
| 9.41 | 3.27 ng | 163944 | Acenaphthene-d10 | 9.75 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 2    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 4    |    | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 5    |    | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 96   |



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Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

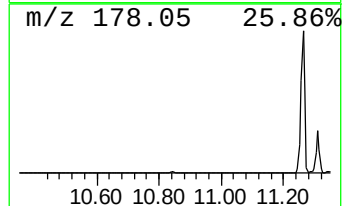
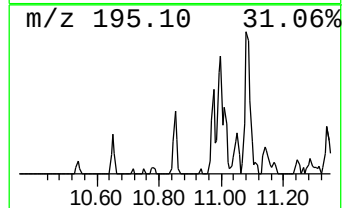
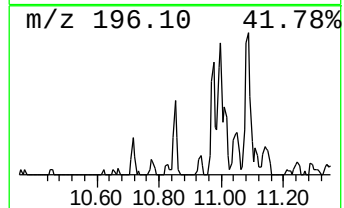
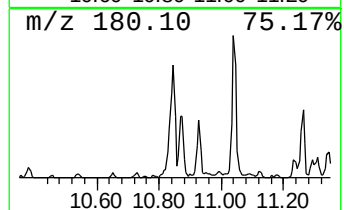
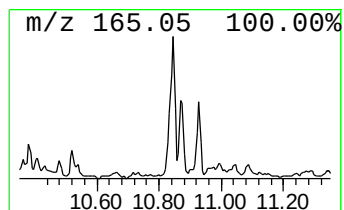
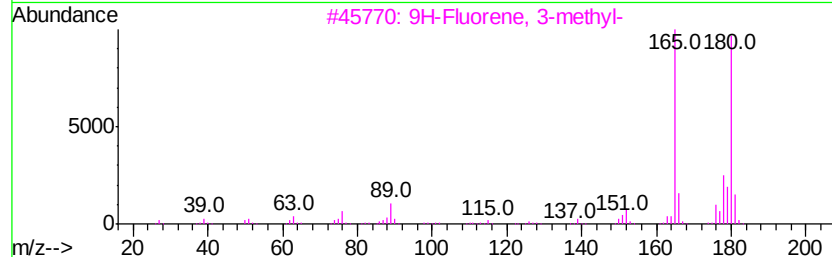
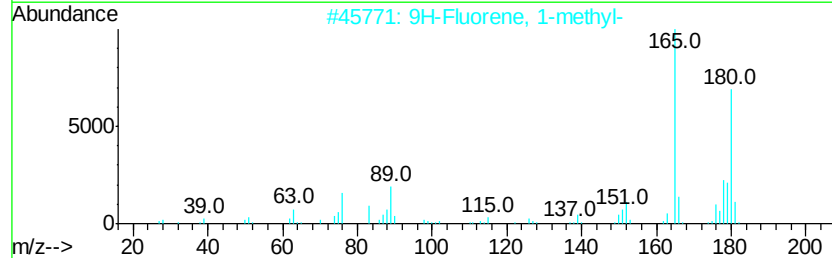
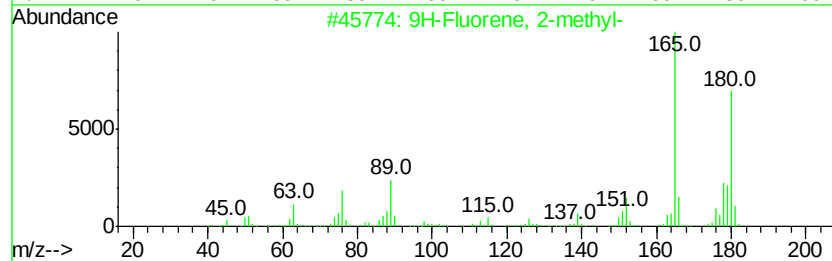
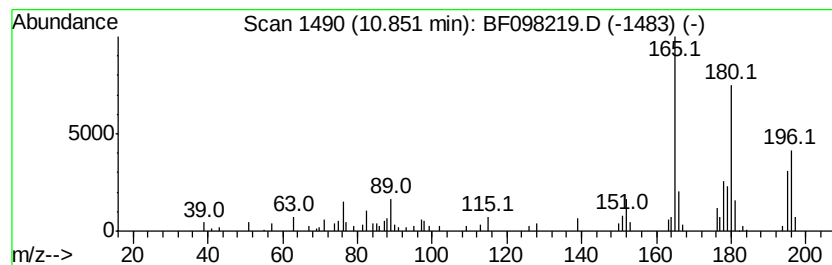
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 11

| R.T.    | EstConc                | Area         | Relative to ISTD |         | R.T.        |      |
|---------|------------------------|--------------|------------------|---------|-------------|------|
| 10.85   | 4.00 ng                | 162245       | Phenanthrene-d10 |         | 11.23       |      |
| Hit# of | 5                      | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | 9H-Fluorene, 2-methyl- |              | 180              | C14H12  | 001430-97-3 | 96   |
| 2       | 9H-Fluorene, 1-methyl- |              | 180              | C14H12  | 001730-37-6 | 96   |
| 3       | 9H-Fluorene, 3-methyl- |              | 180              | C14H12  | 002523-39-9 | 95   |
| 4       | 9H-Fluorene, 4-methyl- |              | 180              | C14H12  | 001556-99-6 | 93   |
| 5       | 9H-Fluorene, 9-methyl- |              | 180              | C14H12  | 002523-37-7 | 90   |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
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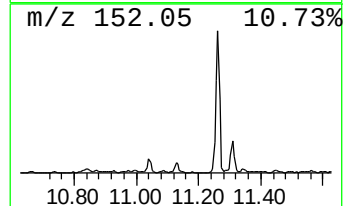
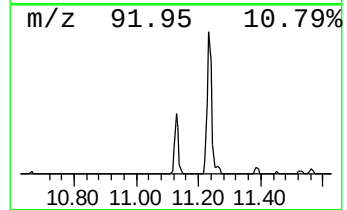
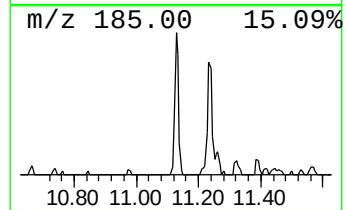
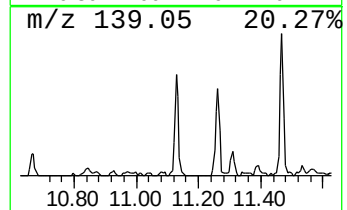
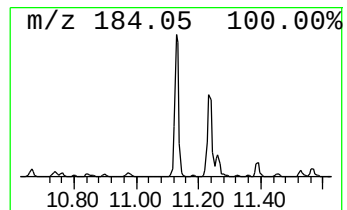
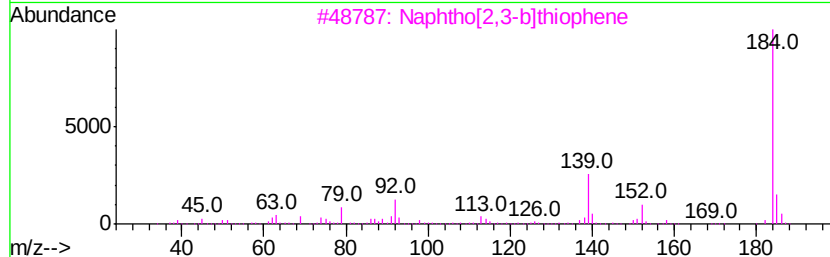
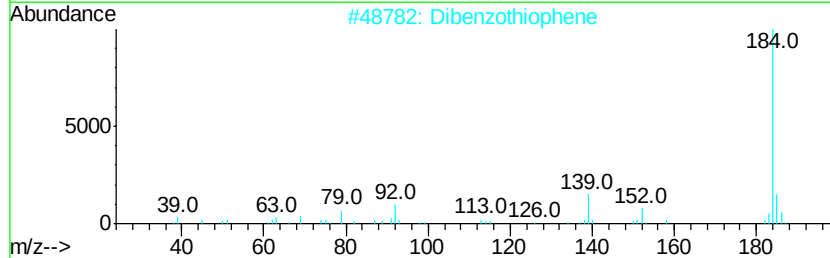
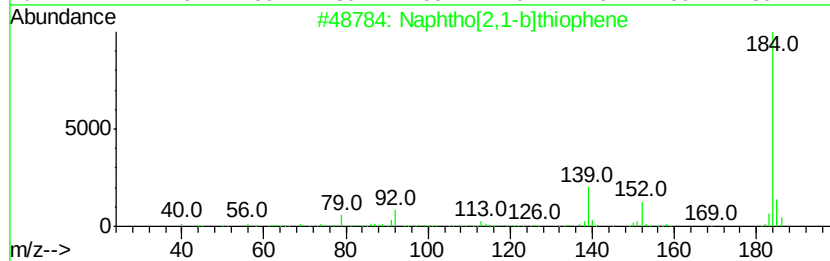
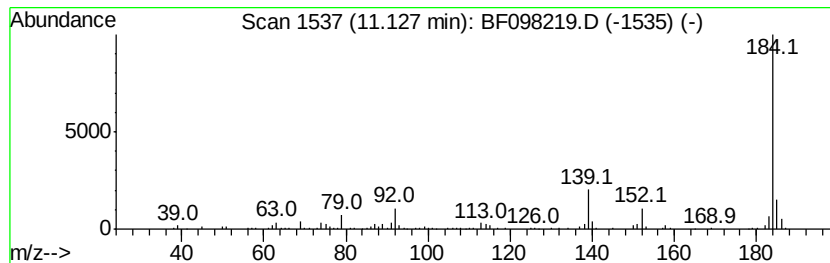
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ClientSampleId :  
CL-01-082917-D

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 6 Naphtho[2,1-b]thiophene Concentration Rank 7

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 11.13   | 5.22 ng | 212046                  | Phenanthrene-d10 | 11.23          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | Naphtho[2,1-b]thiophene | 184 C12H8S       | 000233-02-3 97 |
| 2       |         | Dibenzothiophene        | 184 C12H8S       | 000132-65-0 96 |
| 3       |         | Naphtho[2,3-b]thiophene | 184 C12H8S       | 000268-77-9 94 |
| 4       |         | Naphtho[1,2-b]thiophene | 184 C12H8S       | 000234-41-3 94 |
| 5       |         | Azuleno(2,1-b)thiophene | 184 C12H8S       | 000248-13-5 91 |





Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
CL-01-082917-D

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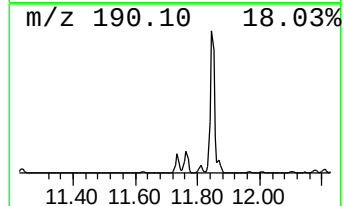
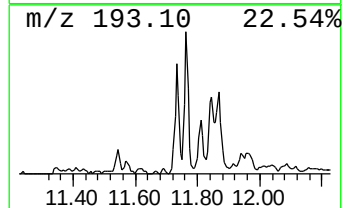
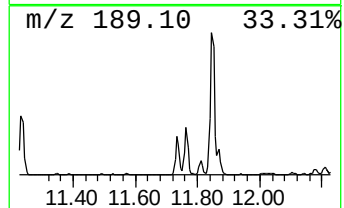
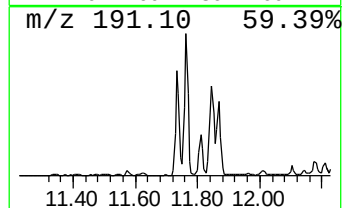
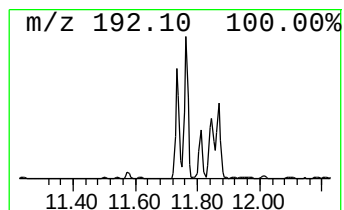
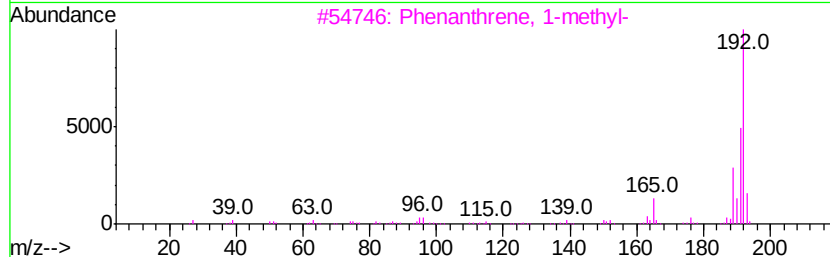
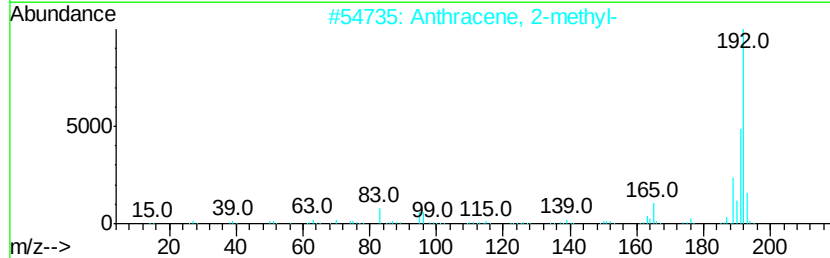
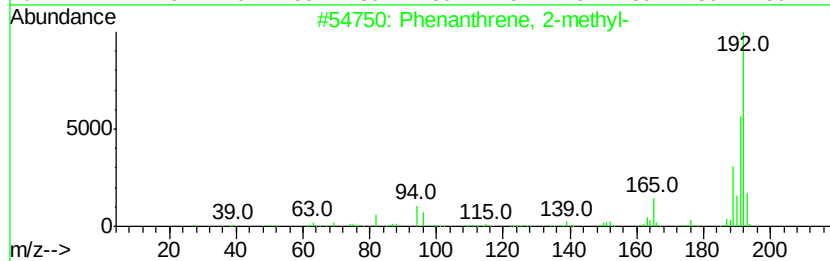
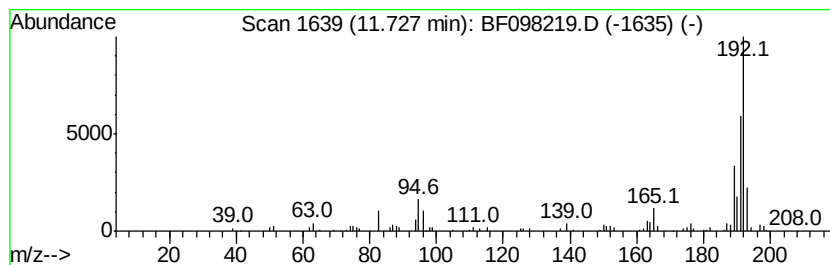
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TIC Integration Parameters: LSCINT.P

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Peak Number 7 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.73 | 7.95 ng | 322729 | Phenanthrene-d10 | 11.23 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 96   |
| 3    |    | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 4    |    | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 91   |
| 5    |    | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
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Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

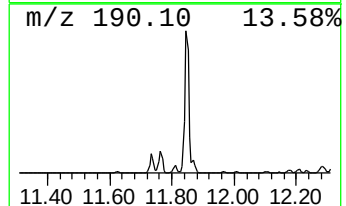
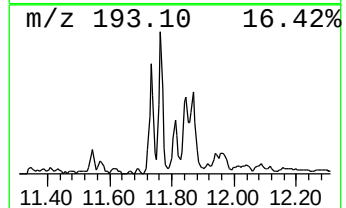
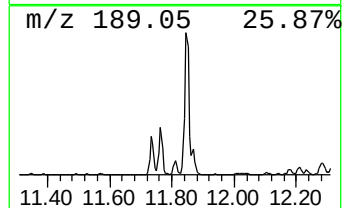
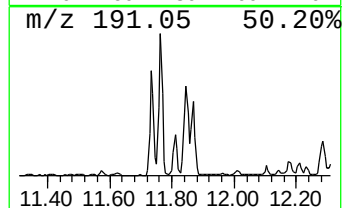
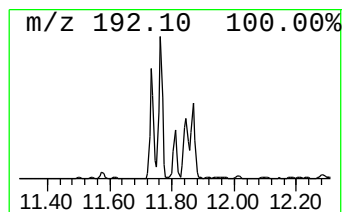
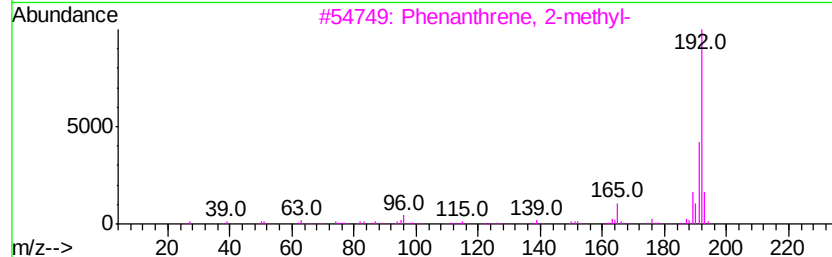
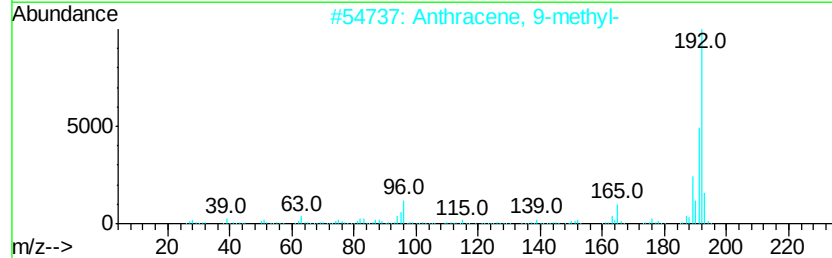
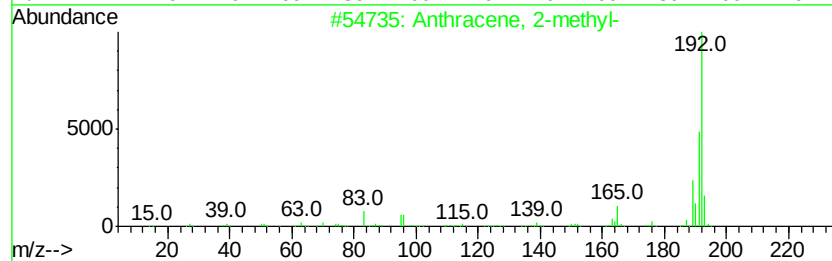
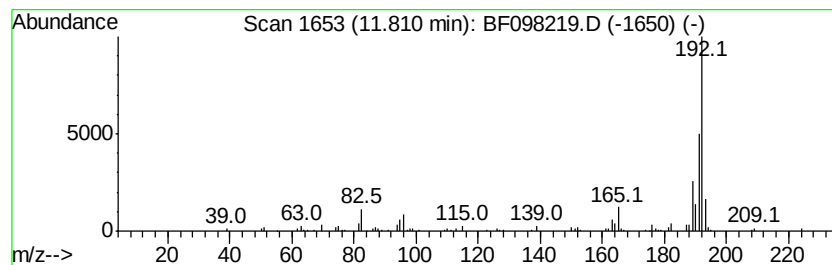
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ClientSampleId :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Anthracene, 2-methyl- Concentration Rank 19

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.81     | 2.92 ng                 | 118681 | Phenanthrene-d10 | 11.23       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | Anthracene, 2-methyl-   | 192    | C15H12           | 000613-12-7 | 97   |
| 2         | Anthracene, 9-methyl-   | 192    | C15H12           | 000779-02-2 | 96   |
| 3         | Phenanthrene, 2-methyl- | 192    | C15H12           | 002531-84-2 | 96   |
| 4         | Phenanthrene, 1-methyl- | 192    | C15H12           | 000832-69-9 | 95   |
| 5         | Anthracene, 1-methyl-   | 192    | C15H12           | 000610-48-0 | 95   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
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Sample : I5024-10 5X  
Misc :  
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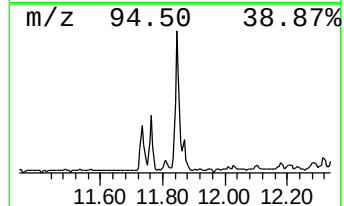
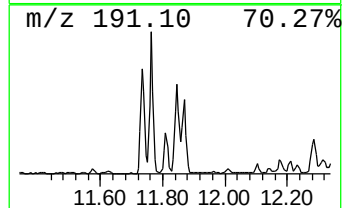
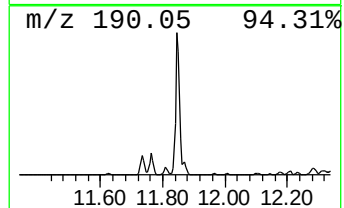
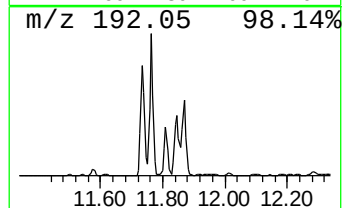
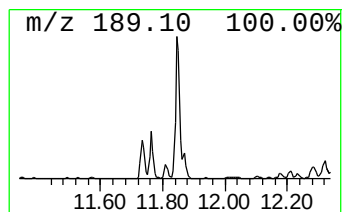
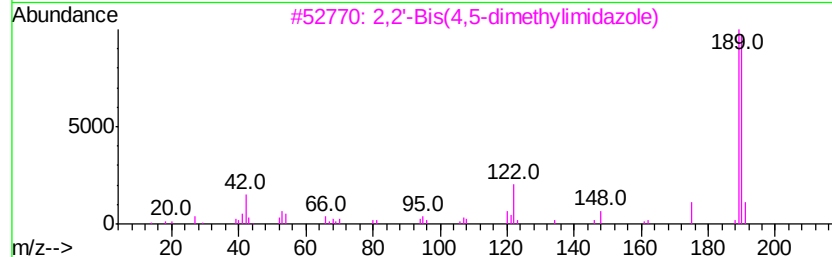
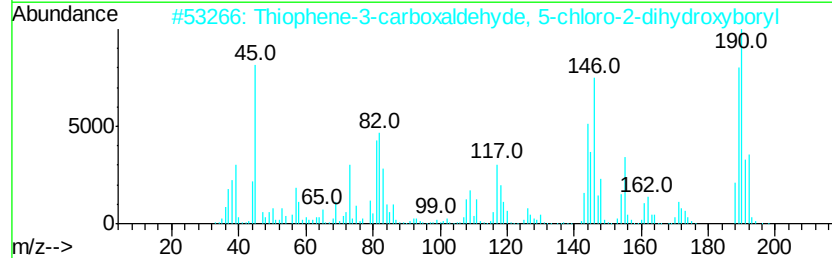
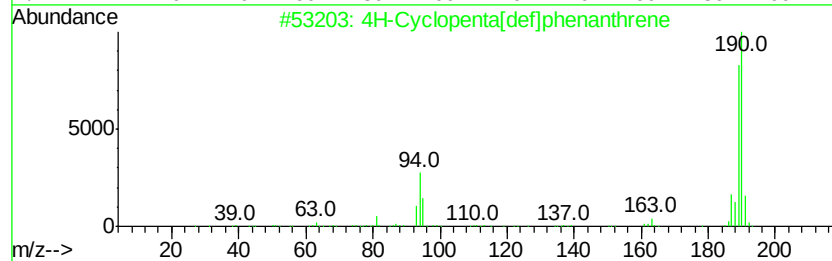
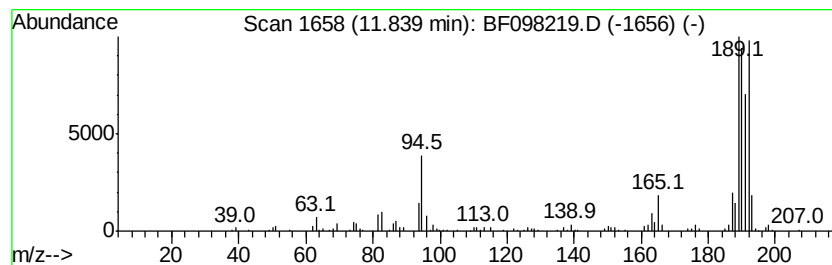
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 10 4H-Cyclopenta[def]phenanthrene Concentration Rank 3

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.       |             |      |
|---------|----------|-------------------------------------|------------------|------------|-------------|------|
| 11.84   | 14.48 ng | 588034                              | Phenanthrene-d10 | 11.23      |             |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm    | CAS#        | Qual |
| 1       |          | 4H-Cyclopenta[def]phenanthrene      | 190              | C15H10     | 000203-64-5 | 70   |
| 2       |          | Thiophene-3-carboxaldehyde, 5-ch... | 190              | C5H4BClO3S | 036155-87-0 | 50   |
| 3       |          | 2,2'-Bis(4,5-dimethylimidazole)     | 190              | C10H14N4   | 069286-06-2 | 32   |
| 4       |          | 2-Naphthaldehyde, 1,2,3,4-tetra...  | 190              | C12H14O2   | 002472-02-8 | 11   |
| 5       |          | Hydrazinecarboxaldehyde, 2-[3-(m... | 190              | C4H6N4O2S  | 038362-25-3 | 10   |



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Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-082917-D

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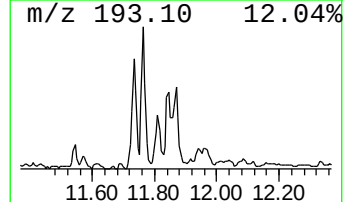
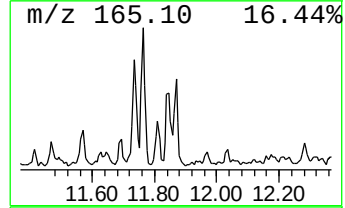
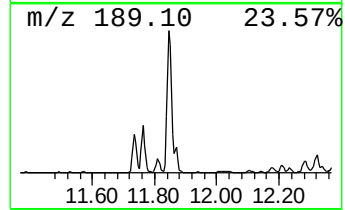
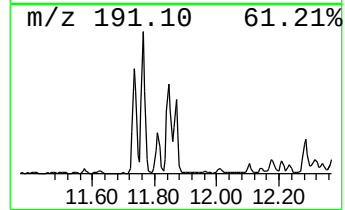
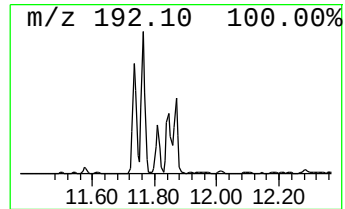
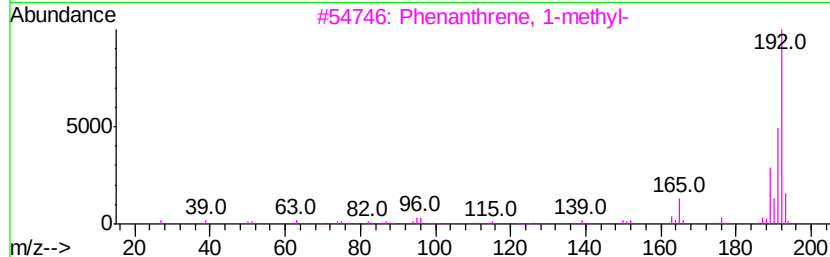
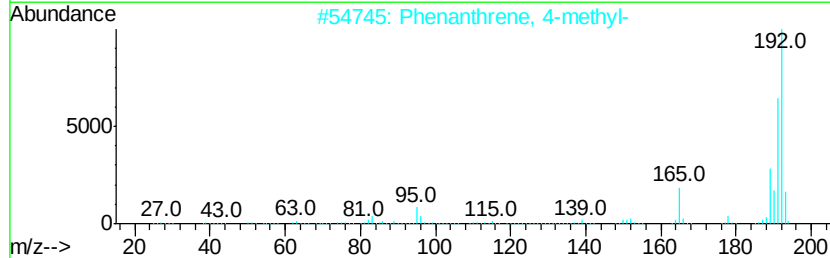
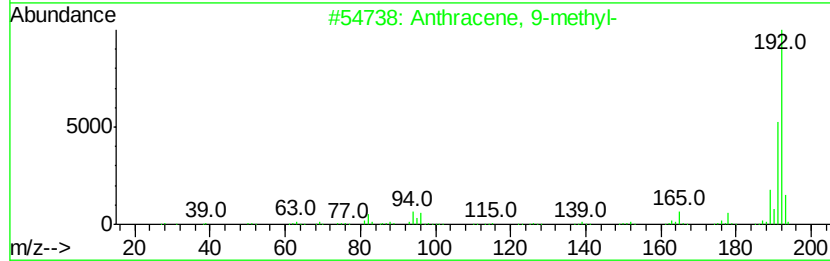
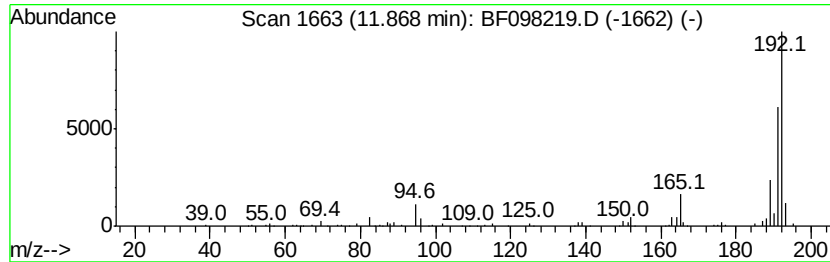
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 Anthracene, 9-methyl- Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.87 | 3.34 ng | 135563 | Phenanthrene-d10 | 11.23 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------------|-----|---------|-------------|------|
| 1    |    |   | Anthracene, 9-methyl-        | 192 | C15H12  | 000779-02-2 | 83   |
| 2    |    |   | Phenanthrene, 4-methyl-      | 192 | C15H12  | 000832-64-4 | 76   |
| 3    |    |   | Phenanthrene, 1-methyl-      | 192 | C15H12  | 000832-69-9 | 76   |
| 4    |    |   | 5H-Dibenzof[a,d]cycloheptene | 192 | C15H12  | 000256-81-5 | 74   |
| 5    |    |   | Phenanthrene, 2-methyl-      | 192 | C15H12  | 002531-84-2 | 74   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

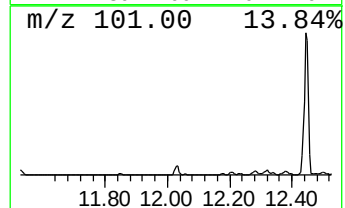
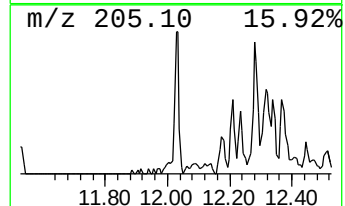
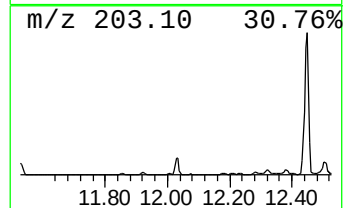
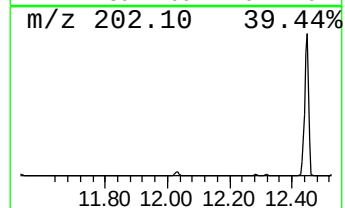
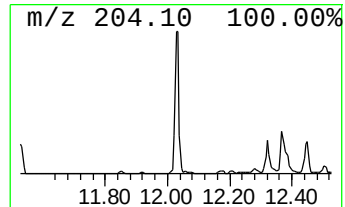
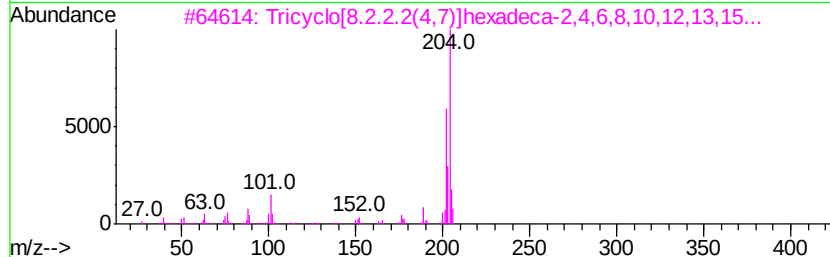
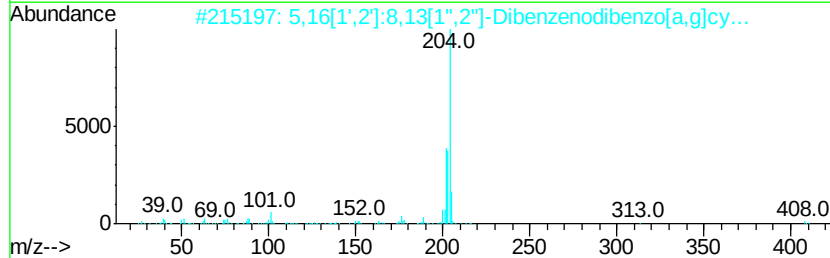
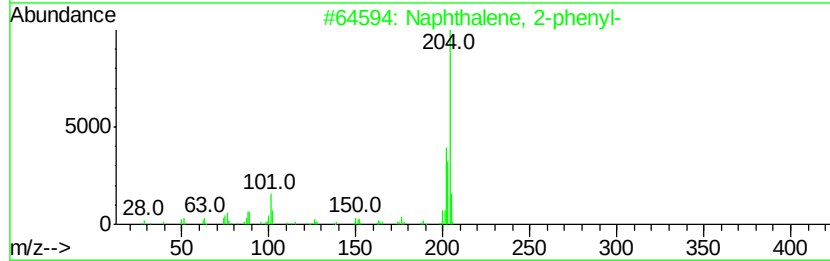
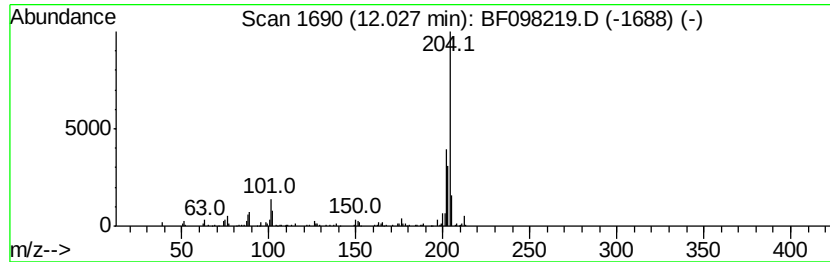
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 Naphthalene, 2-phenyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 4.25 ng | 172725 | Phenanthrene-d10 | 11.23 |

| Hit# | of | Tentative ID                          | MW  | MolForm   | CAS#        | Qual |
|------|----|---------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-                | 204 | C16H12    | 000612-94-2 | 91   |
| 2    |    | 5,16[1',2'] : 8,13[1'',2'']-Dibenz... | 408 | C32H24    | 005672-97-9 | 86   |
| 3    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2...   | 204 | C16H12    | 006572-60-7 | 70   |
| 4    |    | Naphthalene, 1-phenyl-                | 204 | C16H12    | 000605-02-7 | 60   |
| 5    |    | 9,10-Bis(bromomethyl)anthracene       | 362 | C16H12Br2 | 034373-96-1 | 58   |



Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

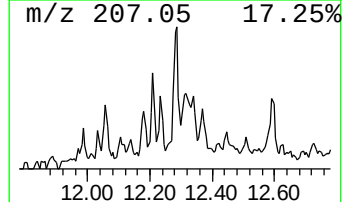
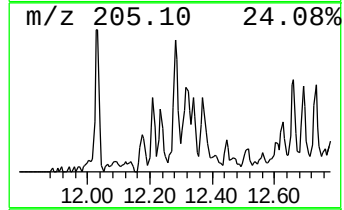
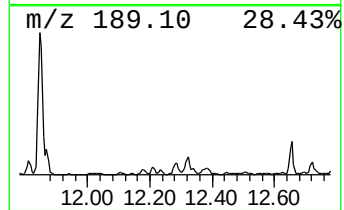
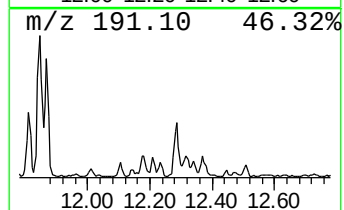
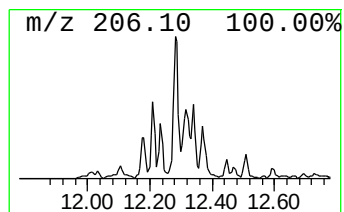
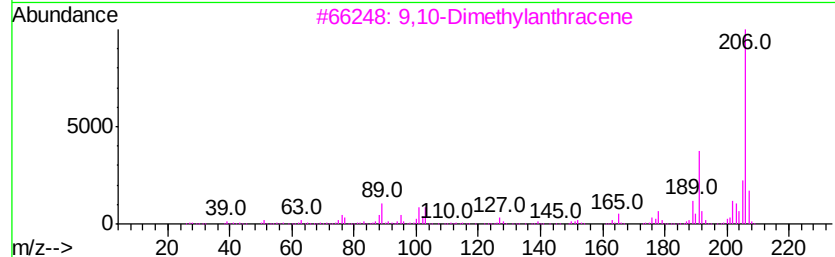
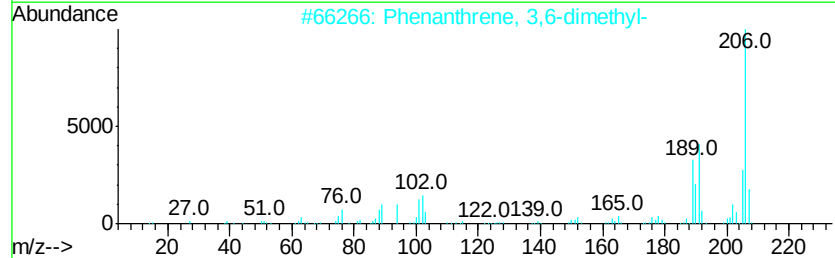
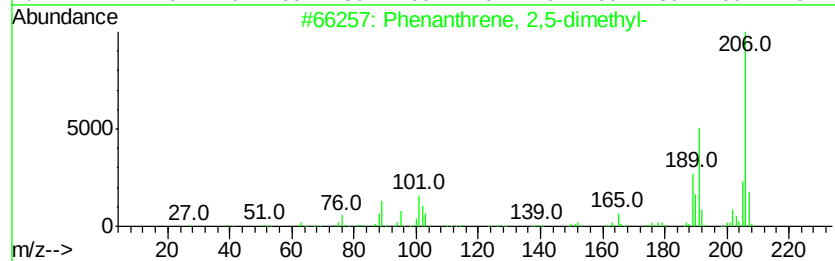
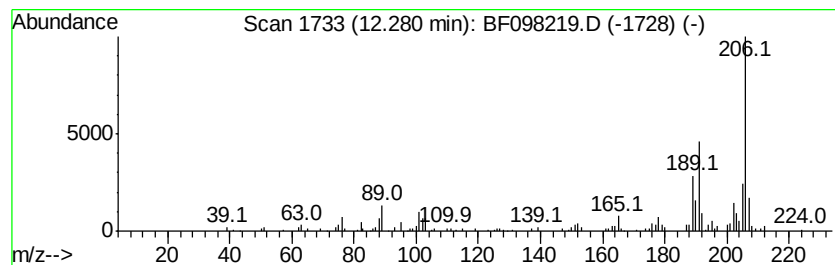
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ClientSampleId :  
CL-01-082917-D

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 Phenanthrene, 2,5-dimethyl- Concentration Rank 8

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 12.28     | 4.56 ng                     | 185019 | Phenanthrene-d10 | 11.23       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 95   |
| 2         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 95   |
| 3         | 9,10-Dimethylanthracene     | 206    | C16H14           | 000781-43-1 | 94   |
| 4         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 93   |
| 5         | di-p-Tolylacetylene         | 206    | C16H14           | 002789-88-0 | 92   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

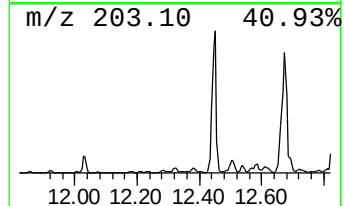
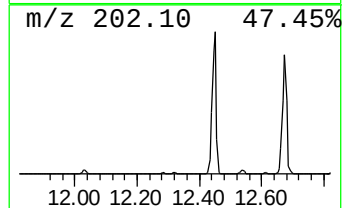
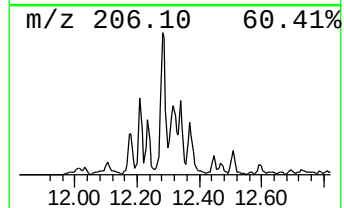
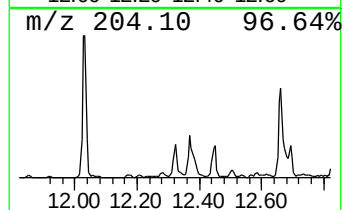
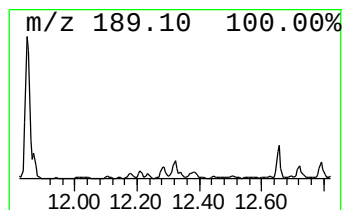
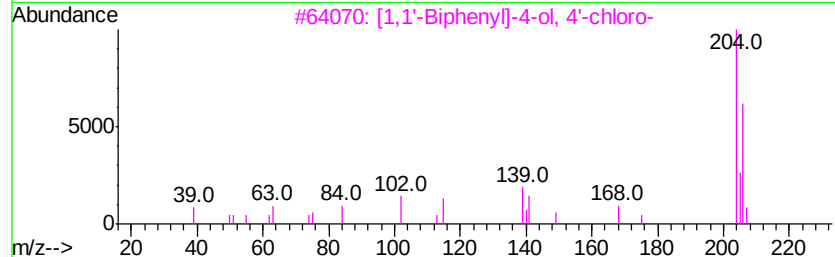
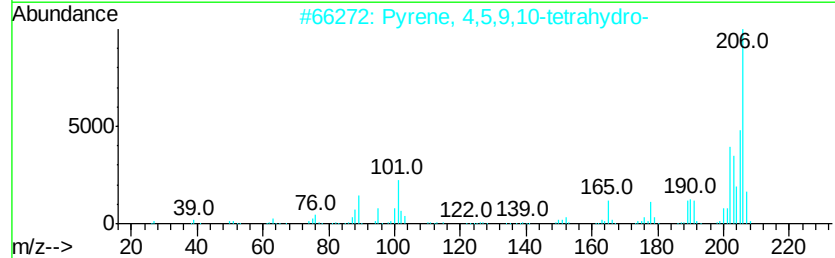
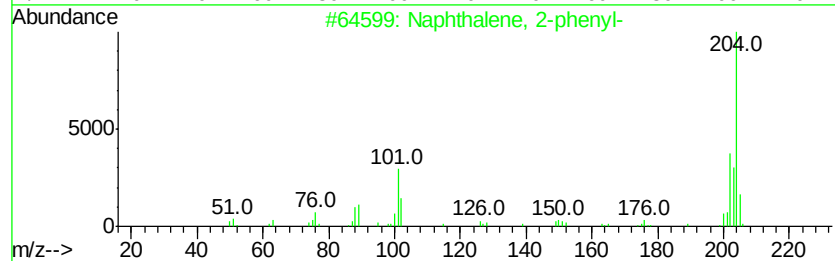
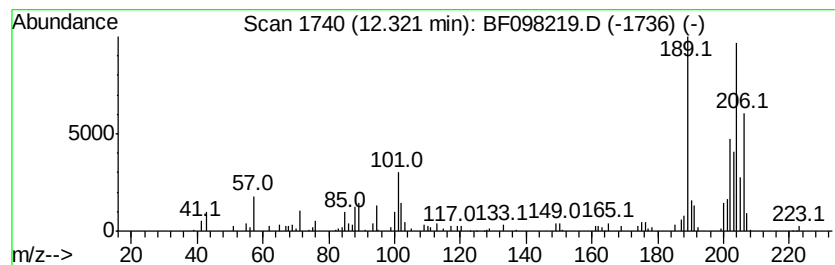
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ClientSampleId :  
CL-01-082917-D

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 14 unknown12.32 Concentration Rank 17

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 12.32     | 3.02 ng                             | 122447 | Phenanthrene-d10 |             | 11.23 |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual  |
| 1         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2 | 46    |
| 2         | Pyrene, 4,5,9,10-tetrahydro-        | 206    | C16H14           | 000781-17-9 | 40    |
| 3         | [1,1'-Biphenyl]-4-ol, 4'-chloro-    | 204    | C12H9ClO         | 028034-99-3 | 30    |
| 4         | Indeno[2,1-a]indene, 5,10-dihydro-  | 204    | C16H12           | 006543-29-9 | 30    |
| 5         | 5H-Dibenzo[a,d]cycloheptene, 5-m... | 204    | C16H12           | 002975-79-3 | 27    |





Data Path : \\74.0.250.170\SVOASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-082917-D

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

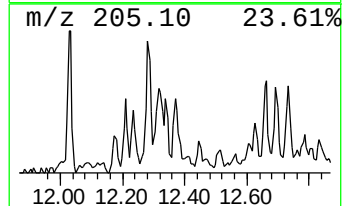
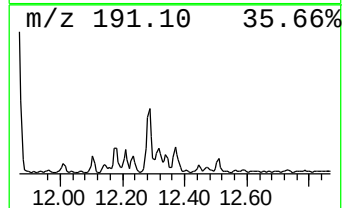
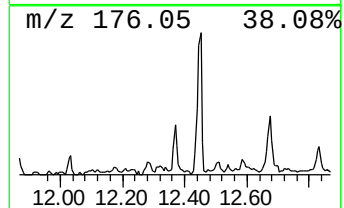
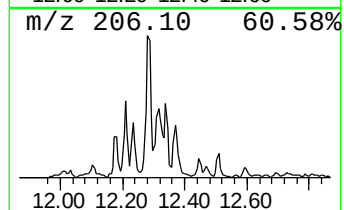
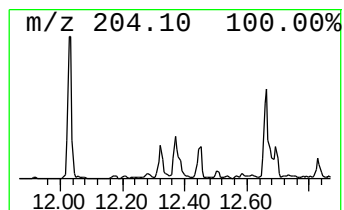
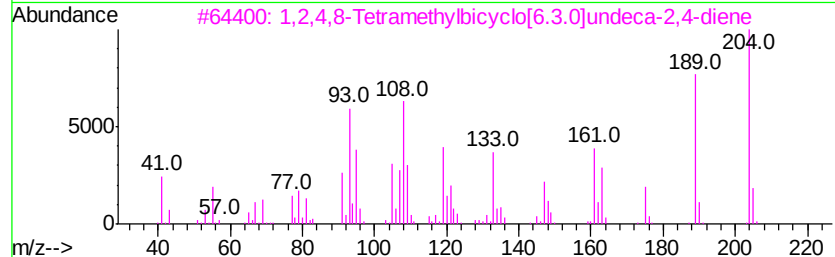
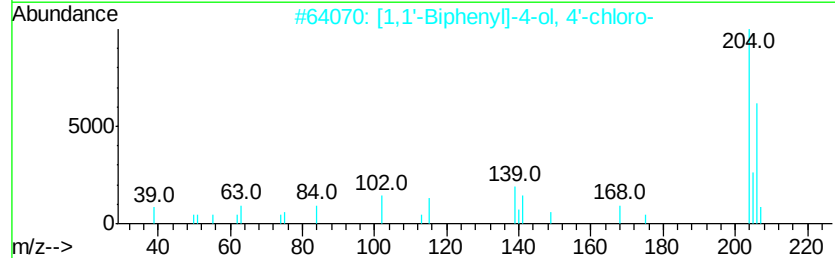
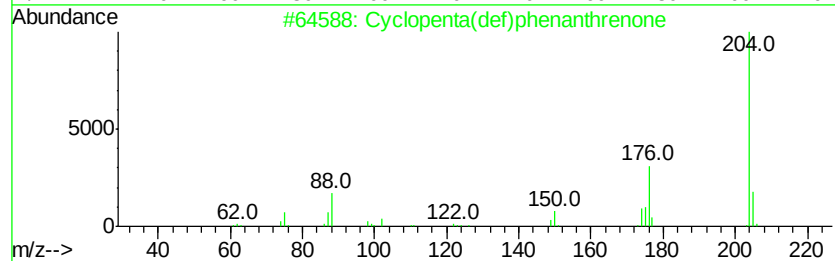
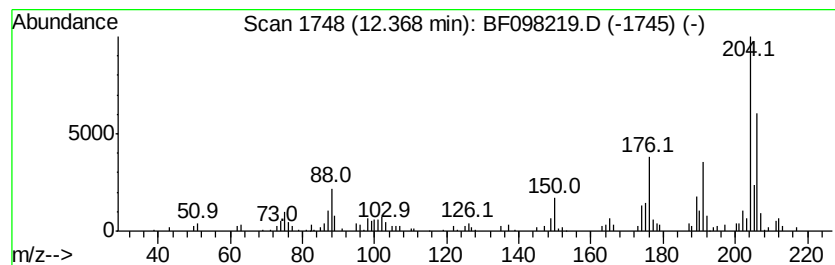
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.37 | 3.00 ng | 121907 | Phenanthrene-d10 | 11.23 |

| Hit# | of | Tentative ID                                      | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone                     | 204 | C15H8O   | 005737-13-3 | 91   |
| 2    |    | [1,1'-Biphenyl]-4-ol, 4'-chloro-                  | 204 | C12H9ClO | 028034-99-3 | 49   |
| 3    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24   | 137235-51-9 | 38   |
| 4    |    | Phenanthrene, 9,10-dimethyl-                      | 206 | C16H14   | 000604-83-1 | 35   |
| 5    |    | 1-Methyl-3-phenyl-1H-indene                       | 206 | C16H14   | 022360-62-9 | 35   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

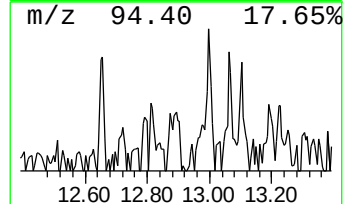
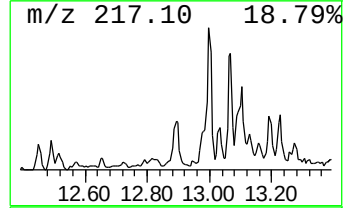
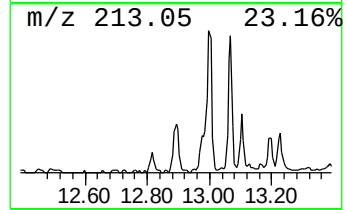
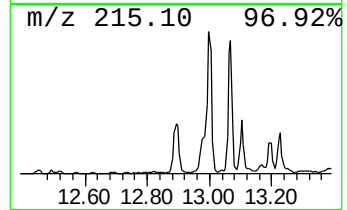
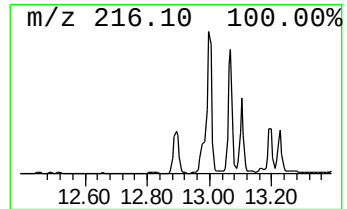
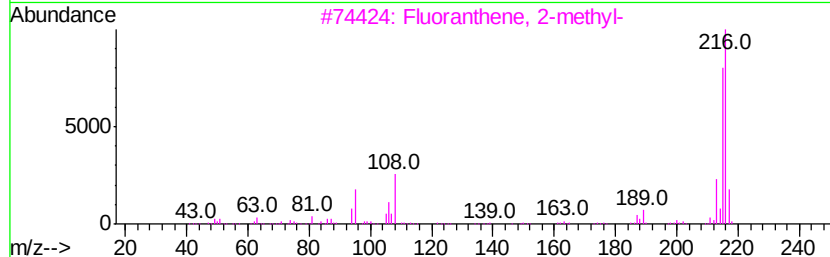
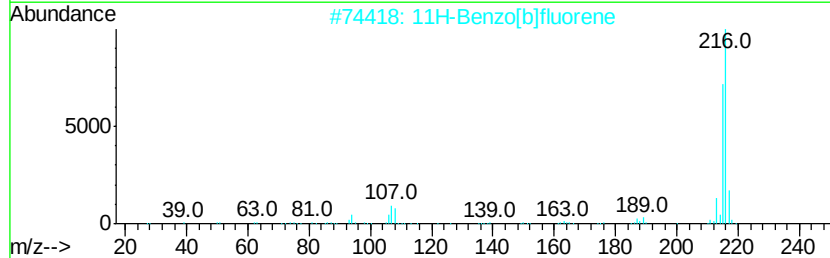
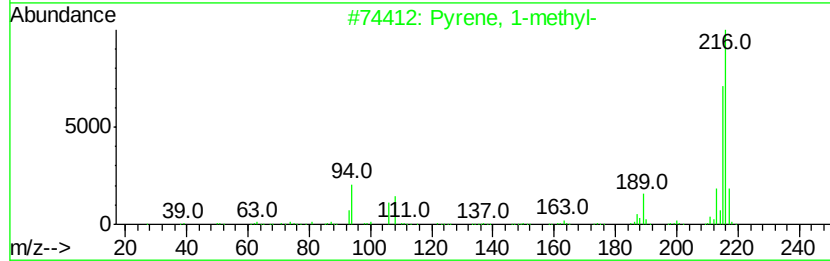
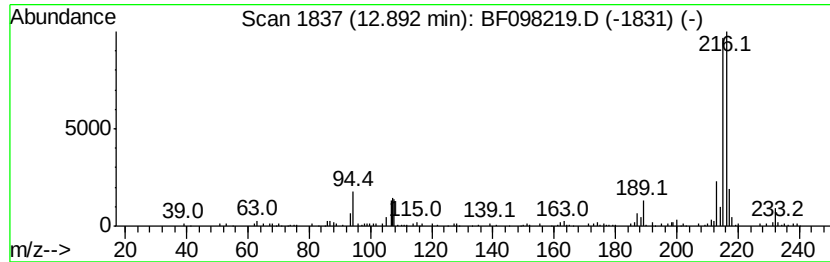
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF081517.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 16 Pyrene, 1-methyl- Concentration Rank 20

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 12.89   | 2.55 ng | 223947                  | Chrysene-d12     | 13.87          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | Pyrene, 1-methyl-       | 216 C17H12       | 002381-21-7 96 |
| 2       |         | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 93 |
| 3       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 89 |
| 4       |         | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 76 |
| 5       |         | Pyrene, 2-methyl-       | 216 C17H12       | 003442-78-2 70 |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA F\DATA\BF090117\  
Data File : BF098219.D  
Acq On : 1 Sep 2017 11:51  
Operator : SJ/JU  
Sample : I5024-10 5X  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
CL-01-082917-D

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

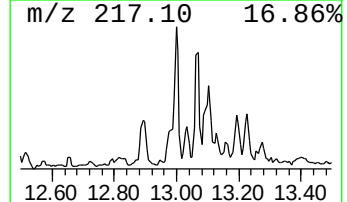
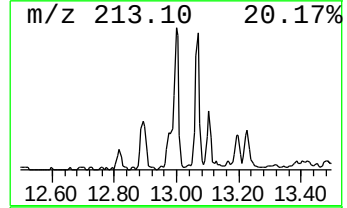
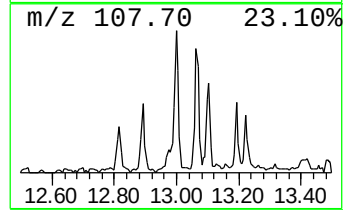
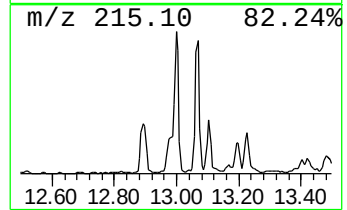
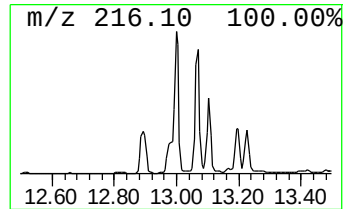
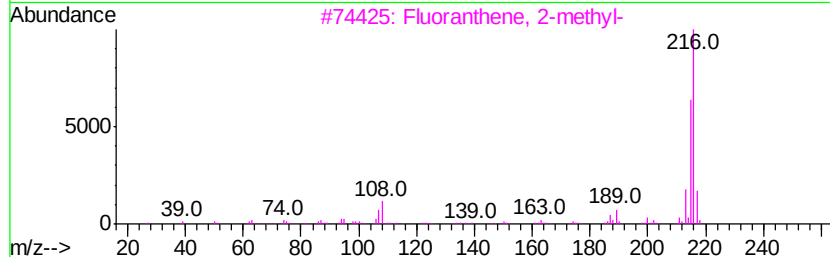
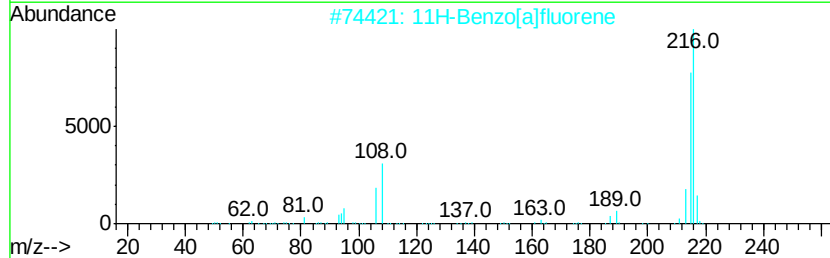
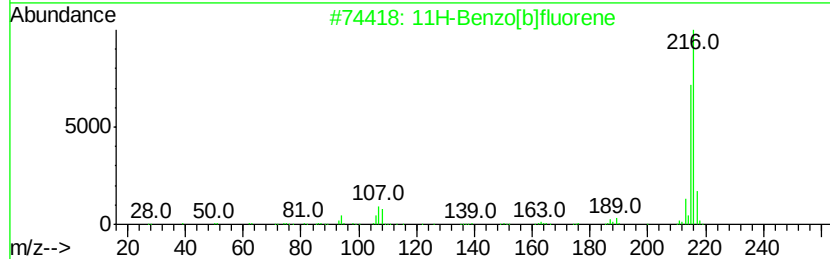
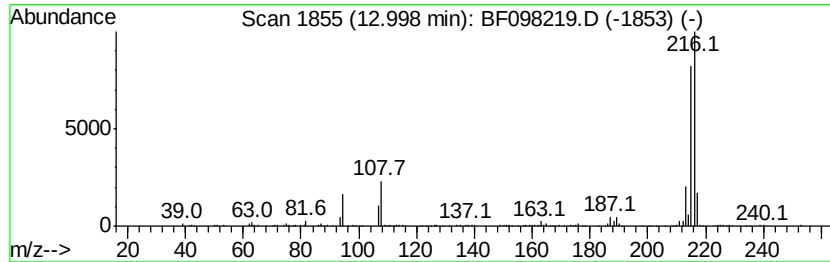
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TIC Integration Parameters: LSCINT.P

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Peak Number 17 11H-Benzo[b]fluorene Concentration Rank 13

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.00 | 3.49 ng | 306227 | Chrysene-d12     | 13.87 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[b]fluorene    | 216 | C17H12  | 000243-17-4 | 93   |
| 2    |    | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 83   |
| 3    |    | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 81   |
| 4    |    | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 70   |
| 5    |    | 7H-Benzo[c]fluorene     | 216 | C17H12  | 000205-12-9 | 59   |



Data Path : \\74.0.250.170\SV0ASRV\HPCHEM1\BNA\_F\DATA\BF090117\  
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 Operator : SJ/JU  
 Sample : I5024-10 5X  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 CL-01-082917-D

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 |
| unknown6.49          | 6.49  | 20.5    | ng    | 760887   | 1                     | 6.72  | 742366  | 20.0 |
| Naphthalene, 1,4-... | 9.41  | 3.3     | ng    | 163944   | 3                     | 9.75  | 1001870 | 20.0 |
| 9H-Fluorene, 2-me... | 10.85 | 4.0     | ng    | 162245   | 4                     | 11.23 | 812196  | 20.0 |
| Naphtho[2,1-b]thi... | 11.13 | 5.2     | ng    | 212046   | 4                     | 11.23 | 812196  | 20.0 |
| Phenanthrene, 2-m... | 11.73 | 8.0     | ng    | 322729   | 4                     | 11.23 | 812196  | 20.0 |
| Anthracene, 2-met... | 11.81 | 2.9     | ng    | 118681   | 4                     | 11.23 | 812196  | 20.0 |
| 4H-Cyclopenta[def... | 11.84 | 14.5    | ng    | 588034   | 4                     | 11.23 | 812196  | 20.0 |
| Anthracene, 9-met... | 11.87 | 3.3     | ng    | 135563   | 4                     | 11.23 | 812196  | 20.0 |
| Naphthalene, 2-ph... | 12.03 | 4.3     | ng    | 172725   | 4                     | 11.23 | 812196  | 20.0 |
| Phenanthrene, 2,5... | 12.28 | 4.6     | ng    | 185019   | 4                     | 11.23 | 812196  | 20.0 |
| unknown12.32         | 12.32 | 3.0     | ng    | 122447   | 4                     | 11.23 | 812196  | 20.0 |
| Cyclopenta(def)ph... | 12.37 | 3.0     | ng    | 121907   | 4                     | 11.23 | 812196  | 20.0 |
| Pyrene, 1-methyl-    | 12.89 | 2.5     | ng    | 223947   | 5                     | 13.87 | 1756940 | 20.0 |
| 11H-Benzo[b]fluorene | 13.00 | 3.5     | ng    | 306227   | 5                     | 13.87 | 1756940 | 20.0 |