

Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
 Data File : BF101025.D  
 Acq On : 30 Nov 2017 18:50  
 Operator : SJ/JU  
 Sample : I6610-11 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-7(4-6)-20171127

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-BF113017.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         | 5.463       | 570           | 574         | 583          | rBV      | 576217         | 492854        | 12.05%          | 1.052%        |
| 2         | 6.475       | 742           | 746         | 755          | rVB      | 562465         | 548130        | 13.40%          | 1.170%        |
| 3         | 6.616       | 767           | 770         | 774          | rBV      | 602200         | 546746        | 13.37%          | 1.167%        |
| 4         | 6.851       | 806           | 810         | 813          | rBV      | 408285         | 315908        | 7.73%           | 0.675%        |
| 5         | 7.004       | 833           | 836         | 839          | rBV      | 499294         | 427850        | 10.46%          | 0.914%        |
| 6         | 7.410       | 902           | 905         | 909          | rBV      | 367171         | 323486        | 7.91%           | 0.691%        |
| 7         | 8.133       | 1024          | 1028        | 1030         | rBV      | 467855         | 480651        | 11.75%          | 1.026%        |
| 8         | 8.157       | 1030          | 1032        | 1036         | rVB      | 1333080        | 1171667       | 28.65%          | 2.502%        |
| 9         | 8.845       | 1145          | 1149        | 1153         | rBV      | 594039         | 498421        | 12.19%          | 1.064%        |
| 10        | 8.945       | 1161          | 1166        | 1169         | rBV      | 476376         | 371775        | 9.09%           | 0.794%        |
| 11        | 9.204       | 1207          | 1210        | 1214         | rVB      | 801273         | 688412        | 16.84%          | 1.470%        |
| 12        | 9.310       | 1225          | 1228        | 1233         | rVB      | 140869         | 118088        | 2.89%           | 0.252%        |
| 13        | 9.404       | 1241          | 1244        | 1251         | rVB      | 108317         | 97607         | 2.39%           | 0.208%        |
| 14        | 9.475       | 1251          | 1256        | 1260         | rBV      | 150946         | 192227        | 4.70%           | 0.410%        |
| 15        | 9.545       | 1264          | 1268        | 1271         | rBV      | 264671         | 262724        | 6.42%           | 0.561%        |
| 16        | 9.575       | 1271          | 1273        | 1275         | rVV      | 162910         | 127642        | 3.12%           | 0.273%        |
| 17        | 9.663       | 1283          | 1288        | 1294         | rBV      | 143412         | 152187        | 3.72%           | 0.325%        |
| 18        | 9.745       | 1300          | 1302        | 1306         | rVB2     | 128791         | 116075        | 2.84%           | 0.248%        |
| 19        | 9.892       | 1324          | 1327        | 1329         | rVV      | 514797         | 450737        | 11.02%          | 0.962%        |
| 20        | 9.922       | 1329          | 1332        | 1335         | rVV      | 905055         | 798481        | 19.53%          | 1.705%        |
| 21        | 10.092      | 1357          | 1361        | 1365         | rVV      | 536754         | 527972        | 12.91%          | 1.127%        |
| 22        | 10.439      | 1416          | 1420        | 1423         | rBV      | 953900         | 795731        | 19.46%          | 1.699%        |
| 23        | 10.504      | 1423          | 1431        | 1432         | rVV      | 116548         | 154904        | 3.79%           | 0.331%        |
| 24        | 10.522      | 1432          | 1434        | 1437         | rVV      | 154477         | 137059        | 3.35%           | 0.293%        |
| 25        | 10.592      | 1444          | 1446        | 1451         | rVB      | 190277         | 158406        | 3.87%           | 0.338%        |
| 26        | 10.674      | 1457          | 1460        | 1464         | rVB      | 511597         | 524310        | 12.82%          | 1.120%        |
| 27        | 10.986      | 1506          | 1513        | 1515         | rBV3     | 172020         | 232290        | 5.68%           | 0.496%        |
| 28        | 11.110      | 1529          | 1534        | 1536         | rVV3     | 69416          | 96089         | 2.35%           | 0.205%        |
| 29        | 11.186      | 1544          | 1547        | 1550         | rVV      | 308097         | 257986        | 6.31%           | 0.551%        |
| 30        | 11.227      | 1550          | 1554        | 1558         | rVV3     | 87799          | 124811        | 3.05%           | 0.267%        |
| 31        | 11.274      | 1559          | 1562        | 1568         | rVB      | 356358         | 300046        | 7.34%           | 0.641%        |
| 32        | 11.380      | 1576          | 1580        | 1581         | rBV      | 342859         | 328518        | 8.03%           | 0.701%        |
| 33        | 11.422      | 1581          | 1587        | 1589         | rVV      | 3294953        | 4089140       | 100.00%         | 8.731%        |
| 34        | 11.463      | 1589          | 1594        | 1596         | rVV      | 1036256        | 905834        | 22.15%          | 1.934%        |

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Instrument :  
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 SB-7(4-6)-20171127

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-BF113017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.486 | 1596 | 1598 | 1601 | rVV  | 99854   | 108314  | 2.65%  | 0.231% |
| 36 | 11.610 | 1612 | 1619 | 1622 | rVV2 | 522199  | 531358  | 12.99% | 1.135% |
| 37 | 11.710 | 1633 | 1636 | 1640 | rVB4 | 133061  | 131899  | 3.23%  | 0.282% |
| 38 | 11.880 | 1660 | 1665 | 1668 | rVV  | 557124  | 555431  | 13.58% | 1.186% |
| 39 | 11.910 | 1668 | 1670 | 1673 | rVB  | 741011  | 598987  | 14.65% | 1.279% |
| 40 | 11.957 | 1673 | 1678 | 1681 | rBV  | 223409  | 193781  | 4.74%  | 0.414% |
| 41 | 11.998 | 1681 | 1685 | 1687 | rVV  | 731022  | 839273  | 20.52% | 1.792% |
| 42 | 12.016 | 1687 | 1688 | 1692 | rVB  | 394990  | 235853  | 5.77%  | 0.504% |
| 43 | 12.174 | 1712 | 1715 | 1718 | rVV  | 357707  | 319411  | 7.81%  | 0.682% |
| 44 | 12.210 | 1718 | 1721 | 1725 | rVV  | 454273  | 397314  | 9.72%  | 0.848% |
| 45 | 12.321 | 1735 | 1740 | 1743 | rVV2 | 116590  | 139079  | 3.40%  | 0.297% |
| 46 | 12.357 | 1743 | 1746 | 1748 | rVV  | 102275  | 96363   | 2.36%  | 0.206% |
| 47 | 12.427 | 1753 | 1758 | 1761 | rVV  | 195901  | 226150  | 5.53%  | 0.483% |
| 48 | 12.468 | 1761 | 1765 | 1767 | rVV3 | 139081  | 223252  | 5.46%  | 0.477% |
| 49 | 12.527 | 1771 | 1775 | 1779 | rVV3 | 159673  | 217978  | 5.33%  | 0.465% |
| 50 | 12.610 | 1783 | 1789 | 1792 | rVV  | 2717492 | 3262202 | 79.78% | 6.966% |
| 51 | 12.657 | 1795 | 1797 | 1800 | rVV  | 119594  | 119372  | 2.92%  | 0.255% |
| 52 | 12.745 | 1805 | 1812 | 1816 | rVV3 | 144279  | 270890  | 6.62%  | 0.578% |
| 53 | 12.839 | 1820 | 1828 | 1831 | rVV2 | 2292071 | 3214848 | 78.62% | 6.865% |
| 54 | 12.874 | 1831 | 1834 | 1838 | rVB2 | 159702  | 170746  | 4.18%  | 0.365% |
| 55 | 12.963 | 1846 | 1849 | 1851 | rVB  | 485301  | 374905  | 9.17%  | 0.801% |
| 56 | 12.986 | 1851 | 1853 | 1856 | rVB  | 201135  | 163920  | 4.01%  | 0.350% |
| 57 | 13.045 | 1856 | 1863 | 1866 | rBV3 | 196406  | 339147  | 8.29%  | 0.724% |
| 58 | 13.127 | 1873 | 1877 | 1879 | rBV3 | 181227  | 224160  | 5.48%  | 0.479% |
| 59 | 13.151 | 1879 | 1881 | 1884 | rVB  | 437976  | 400501  | 9.79%  | 0.855% |
| 60 | 13.221 | 1889 | 1893 | 1895 | rBV  | 337910  | 309811  | 7.58%  | 0.662% |
| 61 | 13.257 | 1895 | 1899 | 1901 | rBV2 | 268676  | 297261  | 7.27%  | 0.635% |
| 62 | 13.351 | 1911 | 1915 | 1917 | rBV  | 134824  | 117419  | 2.87%  | 0.251% |
| 63 | 13.380 | 1917 | 1920 | 1923 | rBV  | 155779  | 138142  | 3.38%  | 0.295% |
| 64 | 13.574 | 1950 | 1953 | 1955 | rVV3 | 86822   | 99730   | 2.44%  | 0.213% |
| 65 | 13.663 | 1965 | 1968 | 1972 | rVB  | 252784  | 231501  | 5.66%  | 0.494% |
| 66 | 13.774 | 1982 | 1987 | 1989 | rBV2 | 273875  | 322600  | 7.89%  | 0.689% |
| 67 | 13.798 | 1989 | 1991 | 1993 | rVV  | 278902  | 251421  | 6.15%  | 0.537% |
| 68 | 13.827 | 1993 | 1996 | 2001 | rVV3 | 228434  | 390248  | 9.54%  | 0.833% |
| 69 | 13.874 | 2001 | 2004 | 2007 | rVB  | 269999  | 253614  | 6.20%  | 0.542% |
| 70 | 13.939 | 2010 | 2015 | 2018 | rBV  | 84820   | 126505  | 3.09%  | 0.270% |
| 71 | 14.021 | 2021 | 2029 | 2032 | rBV2 | 1456082 | 2163346 | 52.90% | 4.619% |

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 SB-7(4-6)-20171127

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-BF113017.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 14.057 | 2032 | 2035 | 2041 | rVV  | 1319776 | 1448882 | 35.43% | 3.094% |
| 73  | 14.133 | 2045 | 2048 | 2052 | rVV  | 383981  | 366246  | 8.96%  | 0.782% |
| 74  | 14.174 | 2052 | 2055 | 2057 | rVV3 | 122663  | 160123  | 3.92%  | 0.342% |
| 75  | 14.215 | 2060 | 2062 | 2064 | rVV  | 147096  | 127887  | 3.13%  | 0.273% |
| 76  | 14.251 | 2064 | 2068 | 2071 | rVV2 | 203247  | 269587  | 6.59%  | 0.576% |
| 77  | 14.368 | 2085 | 2088 | 2091 | rVV2 | 139613  | 180169  | 4.41%  | 0.385% |
| 78  | 14.410 | 2091 | 2095 | 2098 | rVV  | 309521  | 372394  | 9.11%  | 0.795% |
| 79  | 14.445 | 2098 | 2101 | 2105 | rVV2 | 179233  | 246865  | 6.04%  | 0.527% |
| 80  | 14.492 | 2105 | 2109 | 2110 | rVV3 | 89653   | 142215  | 3.48%  | 0.304% |
| 81  | 14.504 | 2110 | 2111 | 2114 | rVV  | 138572  | 135540  | 3.31%  | 0.289% |
| 82  | 14.533 | 2114 | 2116 | 2118 | rVV  | 190972  | 189795  | 4.64%  | 0.405% |
| 83  | 14.557 | 2118 | 2120 | 2123 | rVV  | 227533  | 207173  | 5.07%  | 0.442% |
| 84  | 14.604 | 2123 | 2128 | 2134 | rVB3 | 110680  | 186791  | 4.57%  | 0.399% |
| 85  | 14.721 | 2145 | 2148 | 2151 | rBV2 | 94478   | 106804  | 2.61%  | 0.228% |
| 86  | 14.910 | 2176 | 2180 | 2187 | rVB2 | 133011  | 174376  | 4.26%  | 0.372% |
| 87  | 15.086 | 2202 | 2210 | 2212 | rBV  | 1096570 | 1951683 | 47.73% | 4.167% |
| 88  | 15.180 | 2223 | 2226 | 2230 | rVB  | 252799  | 250634  | 6.13%  | 0.535% |
| 89  | 15.268 | 2237 | 2241 | 2242 | rBV2 | 85428   | 106716  | 2.61%  | 0.228% |
| 90  | 15.386 | 2255 | 2261 | 2266 | rVB  | 626867  | 923906  | 22.59% | 1.973% |
| 91  | 15.451 | 2266 | 2272 | 2276 | rBV  | 929529  | 1297759 | 31.74% | 2.771% |
| 92  | 15.504 | 2277 | 2281 | 2284 | rVV  | 275480  | 369292  | 9.03%  | 0.789% |
| 93  | 15.539 | 2284 | 2287 | 2293 | rVB2 | 341607  | 446561  | 10.92% | 0.954% |
| 94  | 15.945 | 2350 | 2356 | 2360 | rBV5 | 50005   | 101323  | 2.48%  | 0.216% |
| 95  | 16.068 | 2373 | 2377 | 2381 | rVB  | 79429   | 104378  | 2.55%  | 0.223% |
| 96  | 16.998 | 2527 | 2535 | 2542 | rVB  | 431211  | 894188  | 21.87% | 1.909% |
| 97  | 17.162 | 2557 | 2563 | 2567 | rBV  | 78180   | 151561  | 3.71%  | 0.324% |
| 98  | 17.221 | 2568 | 2573 | 2577 | rBV3 | 59126   | 105582  | 2.58%  | 0.225% |
| 99  | 17.451 | 2603 | 2612 | 2622 | rVB  | 298668  | 676693  | 16.55% | 1.445% |
| 100 | 17.680 | 2645 | 2651 | 2665 | rVB2 | 93068   | 266004  | 6.51%  | 0.568% |

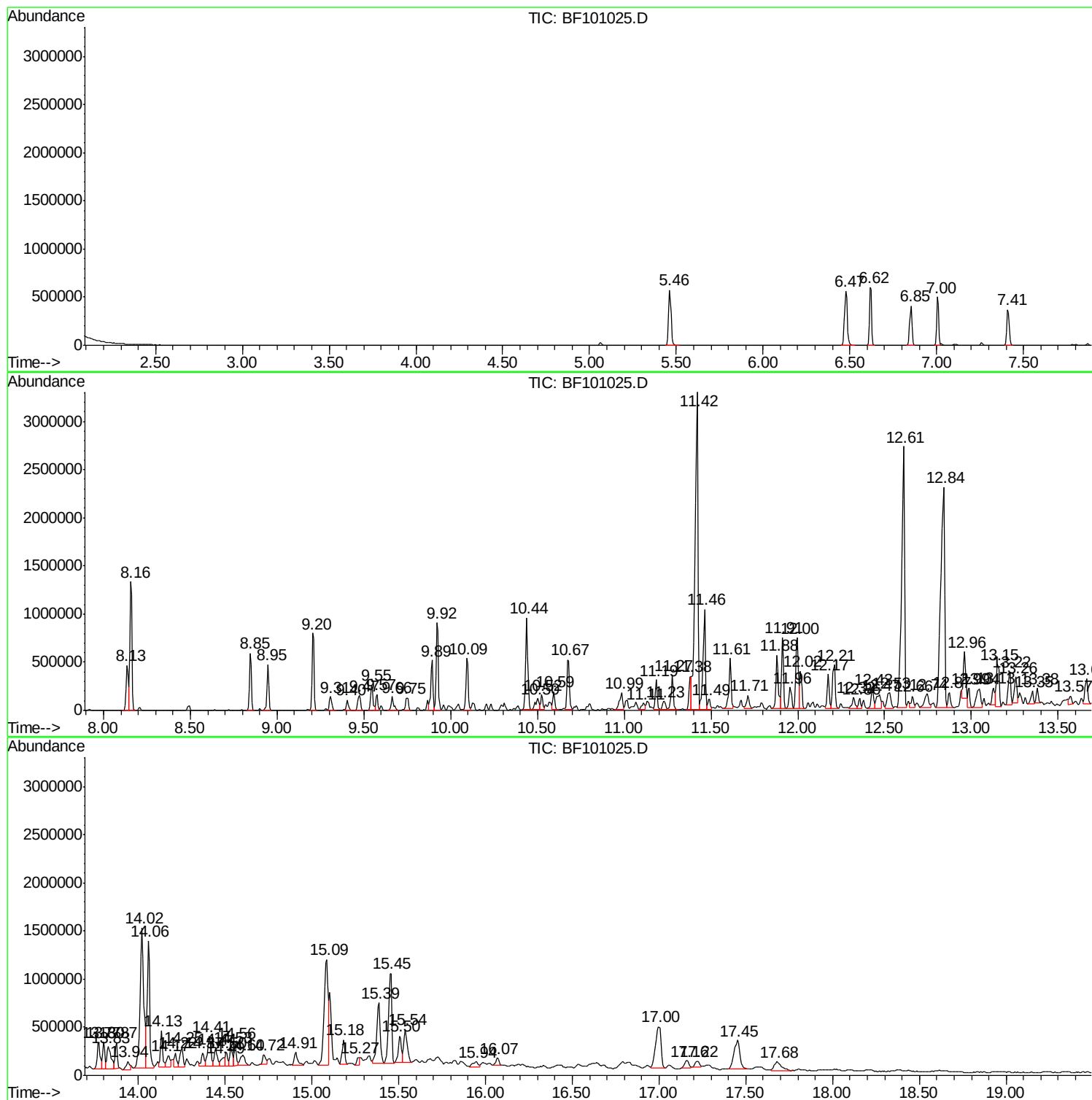
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Instrument :  
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SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

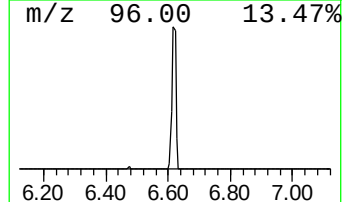
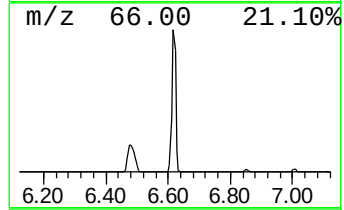
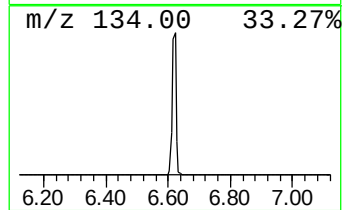
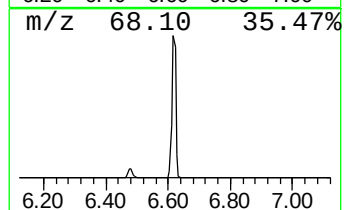
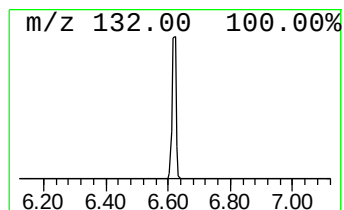
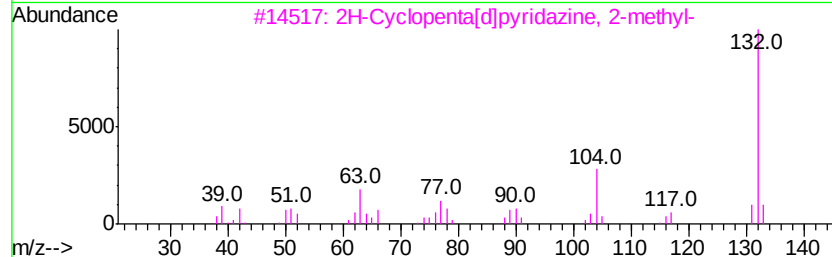
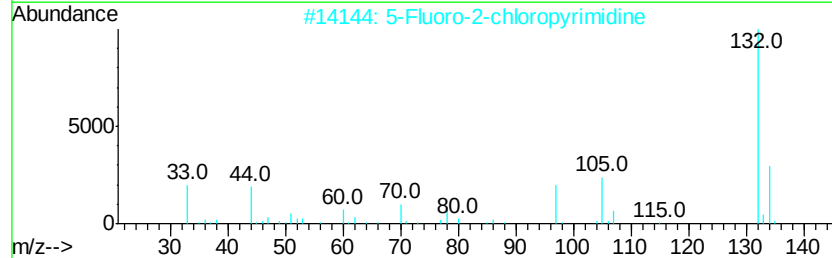
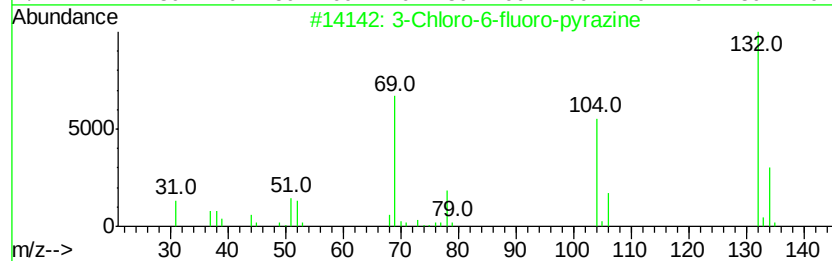
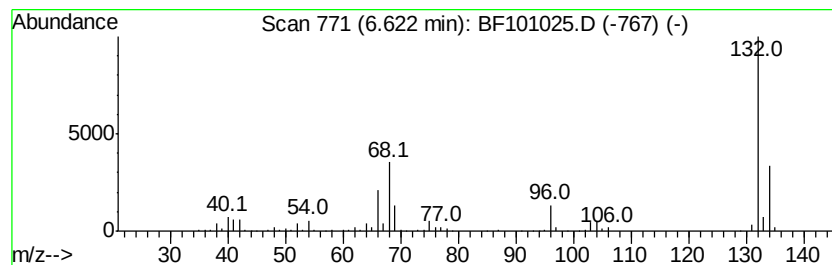
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.62 Concentration Rank 4

| R.T. | EstConc  | Area   | Relative to ISTD       | R.T. |
|------|----------|--------|------------------------|------|
| 6.62 | 34.61 ng | 546746 | 1,4-Dichlorobenzene-d4 | 6.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | 5-Fluoro-2-chloropyrimidine         | 132 | C4H2ClFN2 | 062802-42-0  | 9    |
| 3    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 4    |    | 4-Chloro-6-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-01-6  | 9    |
| 5    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |



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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

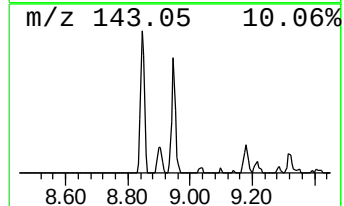
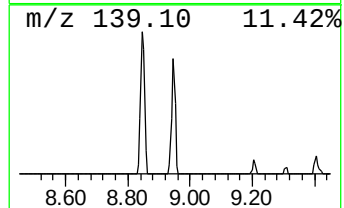
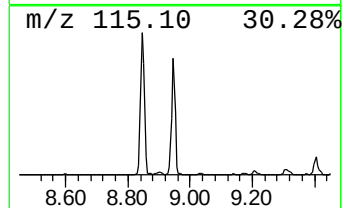
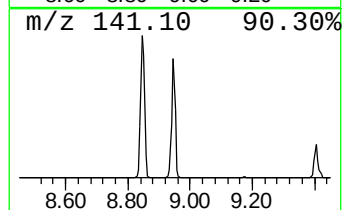
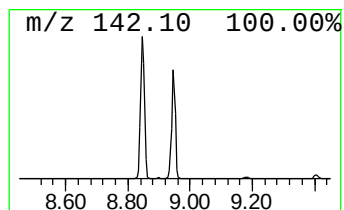
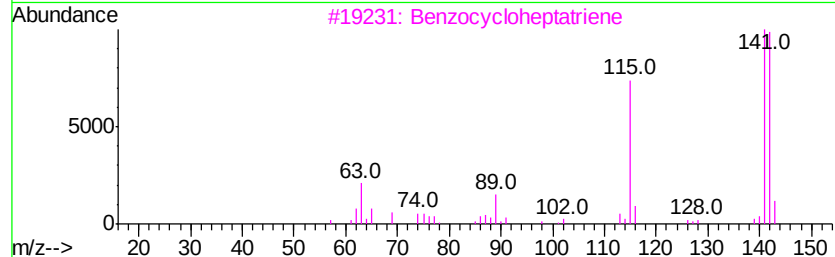
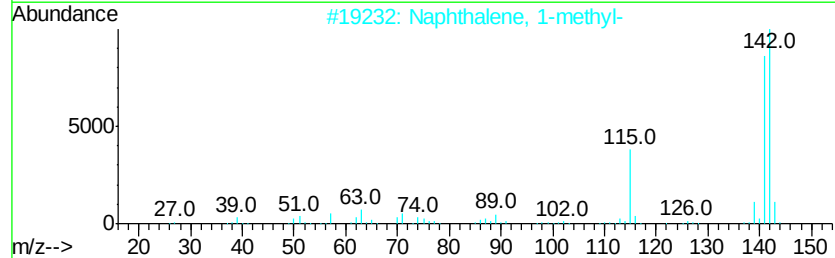
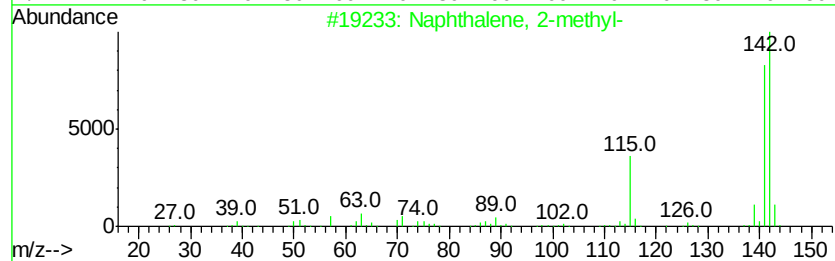
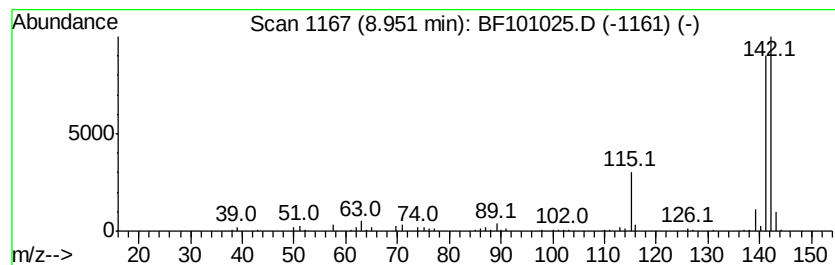
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Naphthalene, 1-methyl- Concentration Rank 11

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 8.95 | 15.47 ng | 371775 | Naphthalene-d8   | 8.13 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2-methyl-              | 142 | C11H10  | 000091-57-6 | 96   |
| 2    |    | Naphthalene, 1-methyl-              | 142 | C11H10  | 000090-12-0 | 94   |
| 3    |    | Benzocycloheptatriene               | 142 | C11H10  | 000264-09-5 | 91   |
| 4    |    | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10  | 004453-90-1 | 91   |
| 5    |    | Bicyclo[4.4.1]undeca-1,3,5,7,9-p... | 142 | C11H10  | 002443-46-1 | 78   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

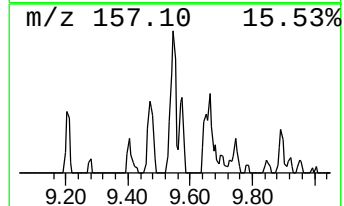
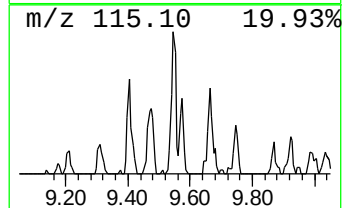
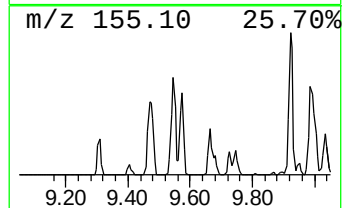
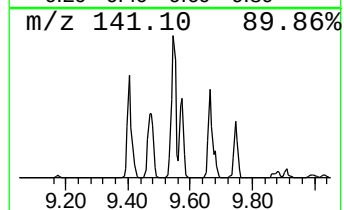
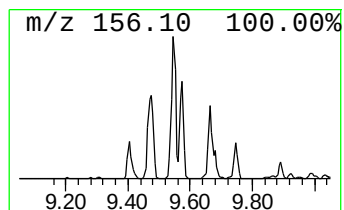
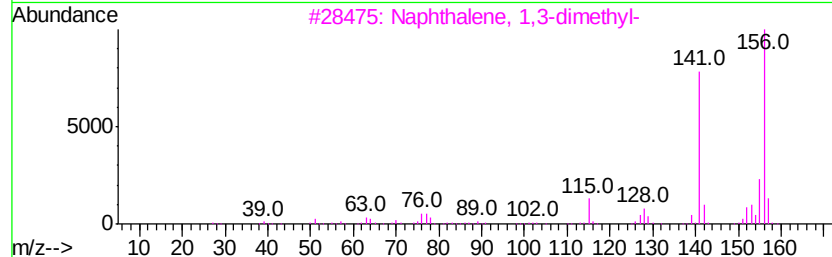
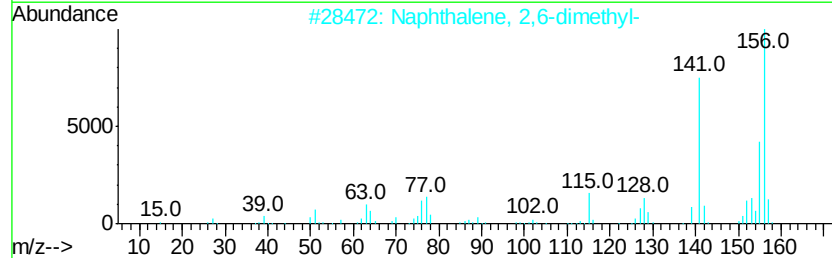
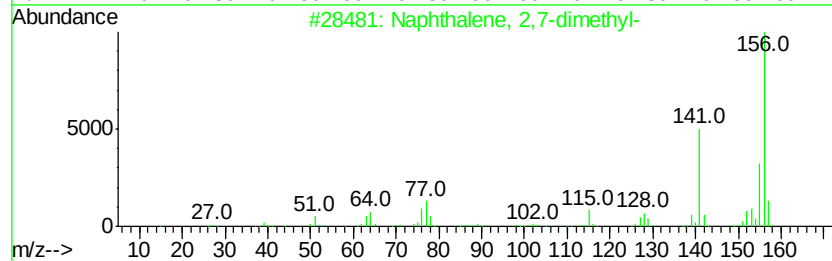
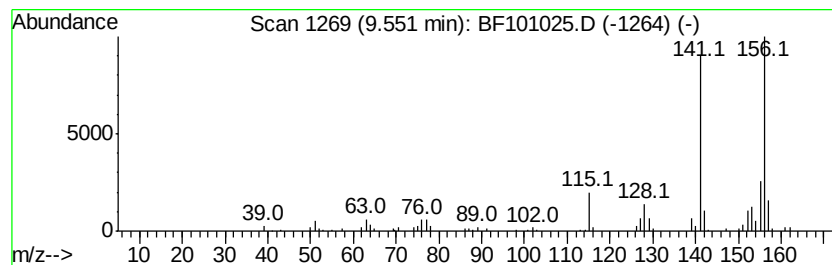
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Naphthalene, 2,7-dimethyl- Concentration Rank 20

| R.T. | EstConc  | Area   | Relative to ISTD | R.T. |
|------|----------|--------|------------------|------|
| 9.55 | 11.66 ng | 262724 | Acenaphthene-d10 | 9.89 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 2    |    | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 3    |    | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 4    |    | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 97   |
| 5    |    | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

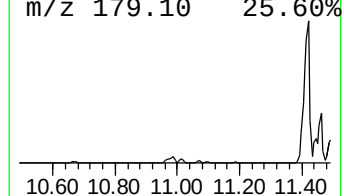
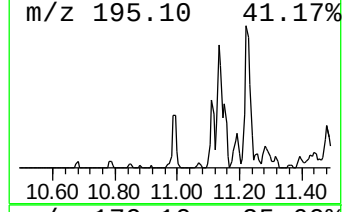
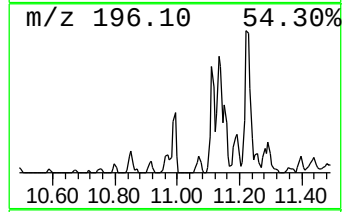
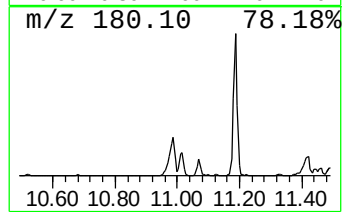
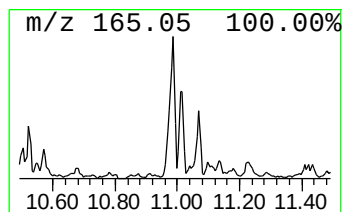
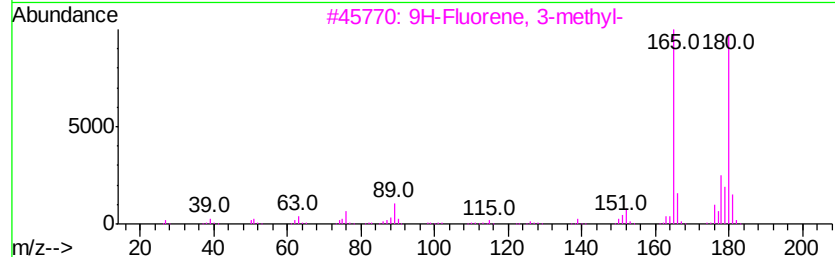
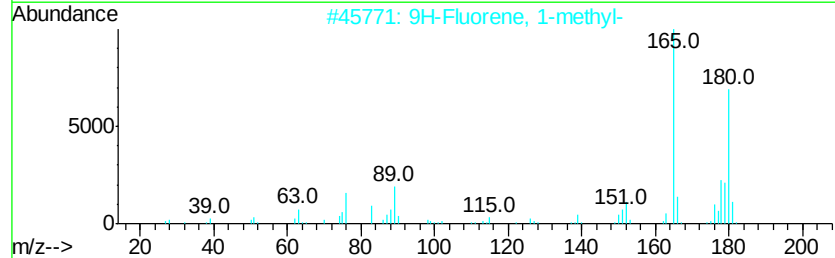
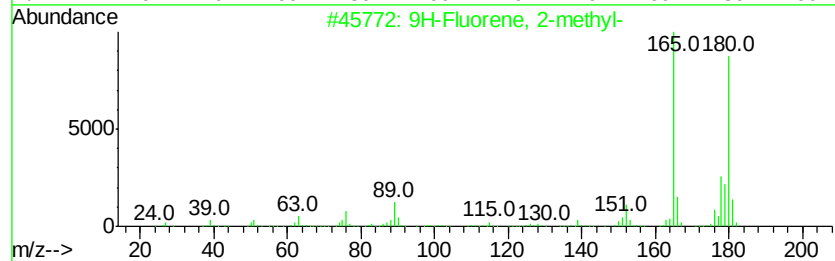
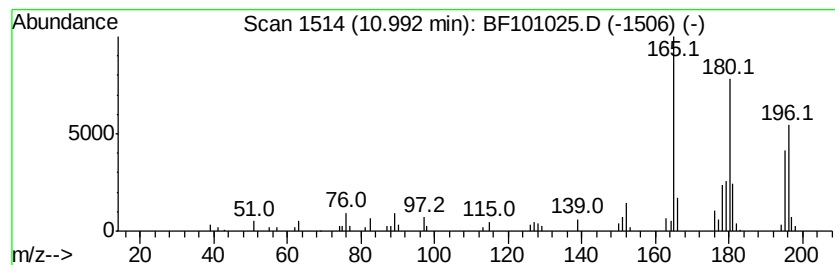
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 9H-Fluorene, 2-methyl- Concentration Rank 14

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 10.99 | 14.14 ng | 232290 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | 9H-Fluorene, 2-methyl- | 180 | C14H12  | 001430-97-3 | 96   |
| 2    |    | 9H-Fluorene, 1-methyl- | 180 | C14H12  | 001730-37-6 | 95   |
| 3    |    | 9H-Fluorene, 3-methyl- | 180 | C14H12  | 002523-39-9 | 93   |
| 4    |    | 9H-Fluorene, 4-methyl- | 180 | C14H12  | 001556-99-6 | 89   |
| 5    |    | 9H-Fluorene, 9-methyl- | 180 | C14H12  | 002523-37-7 | 86   |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

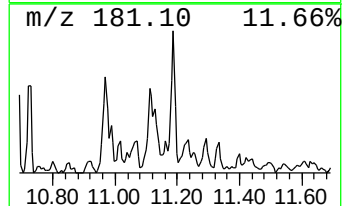
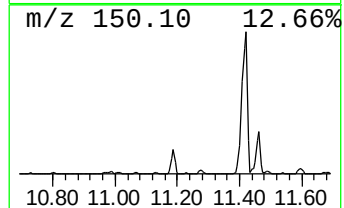
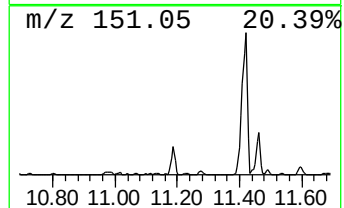
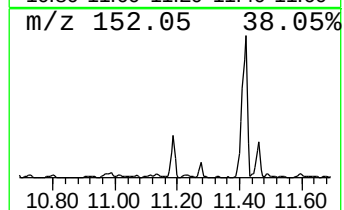
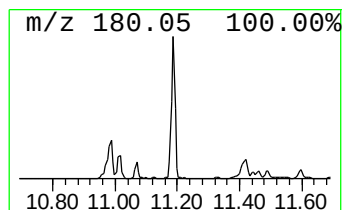
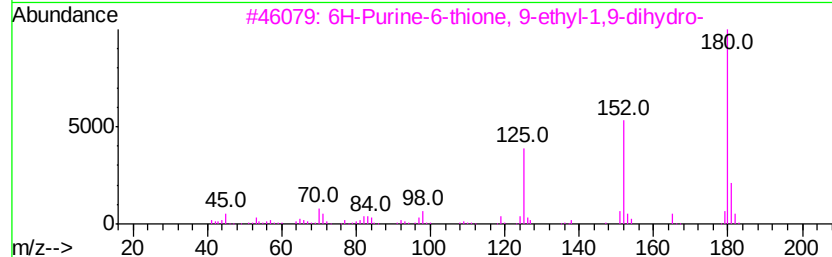
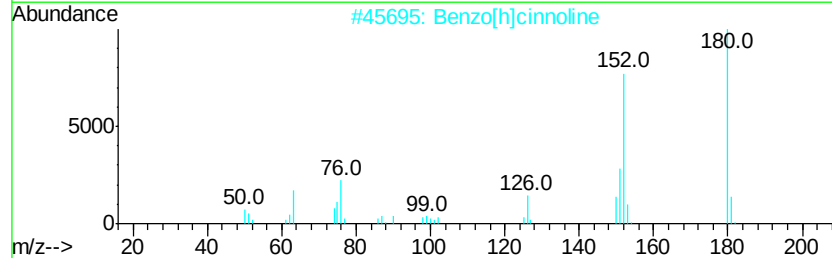
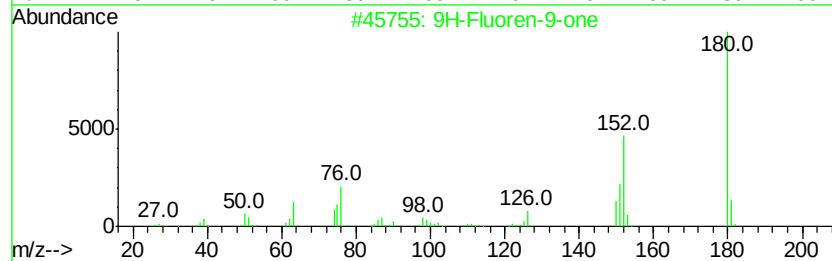
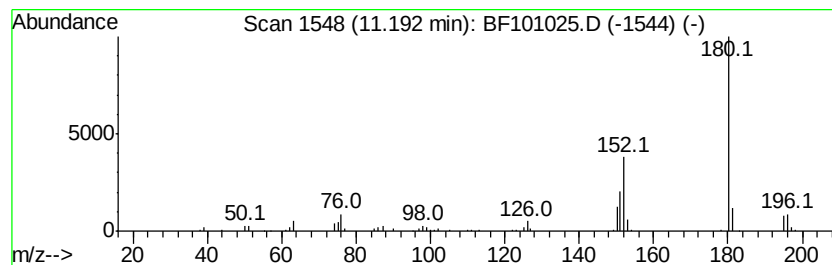
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 9H-Fluoren-9-one Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.19 | 15.71 ng | 257986 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|-------------------------------------|-----|----------|--------------|------|
| 1    | 5  | 9H-Fluoren-9-one                    | 180 | C13H8O   | 000486-25-9  | 96   |
| 2    |    | Benzo[h]cinnoline                   | 180 | C12H8N2  | 000230-31-9  | 91   |
| 3    |    | 6H-Purine-6-thione, 9-ethyl-1,9-... | 180 | C7H8N4S  | 005427-20-3  | 59   |
| 4    |    | 1H-Phenalen-1-one                   | 180 | C13H8O   | 000548-39-0  | 52   |
| 5    |    | 2-Benzothiophen-4(5H)-one, 6,7-d... | 180 | C10H12OS | 1000338-11-9 | 50   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

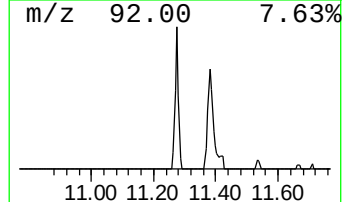
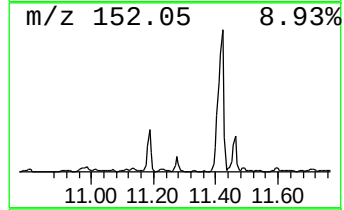
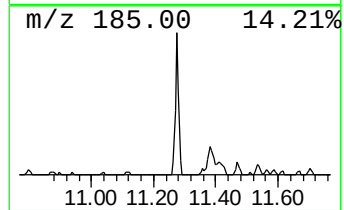
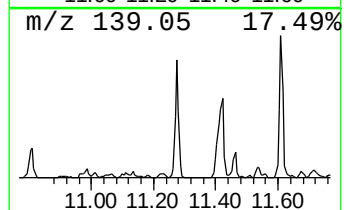
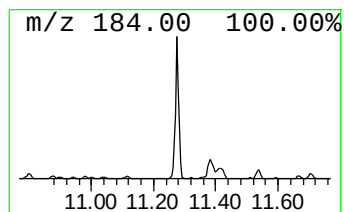
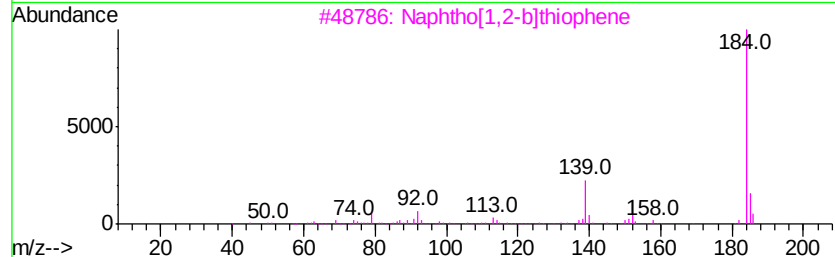
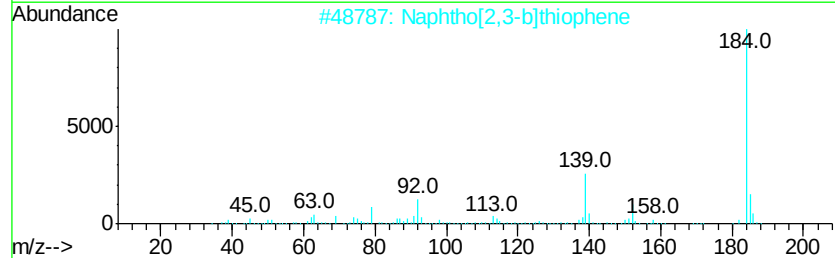
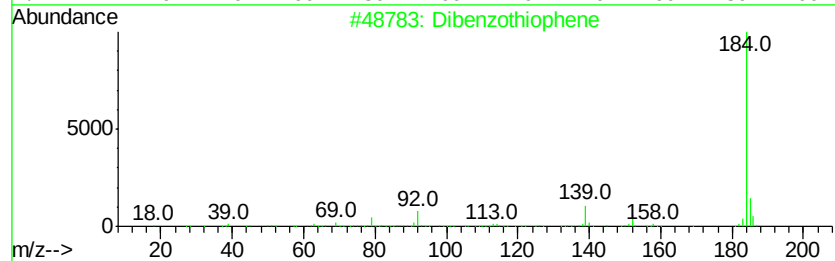
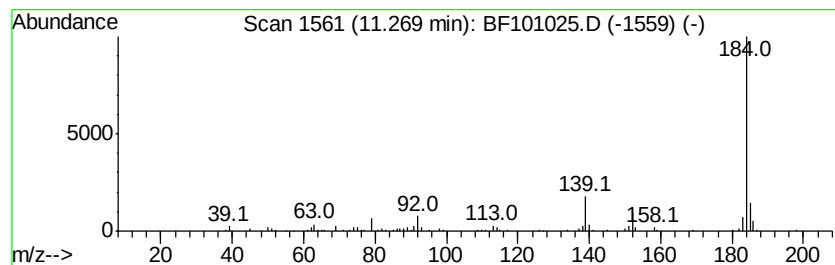
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Dibenzothiophene Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.27 | 18.27 ng | 300046 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------|-----|---------|-------------|------|
| 1    | 5  | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 97   |
| 2    |    | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 95   |
| 3    |    | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 95   |
| 4    |    | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 95   |
| 5    |    | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 91   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

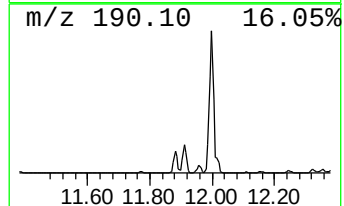
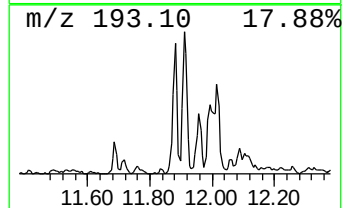
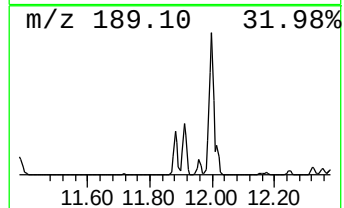
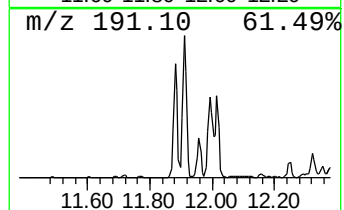
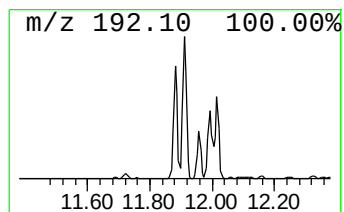
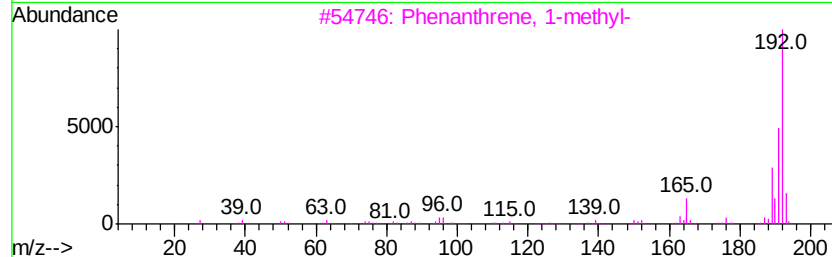
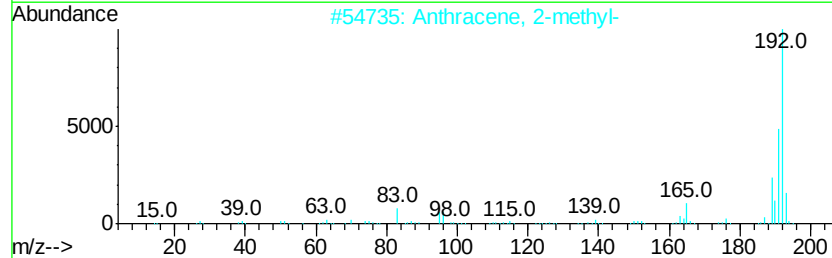
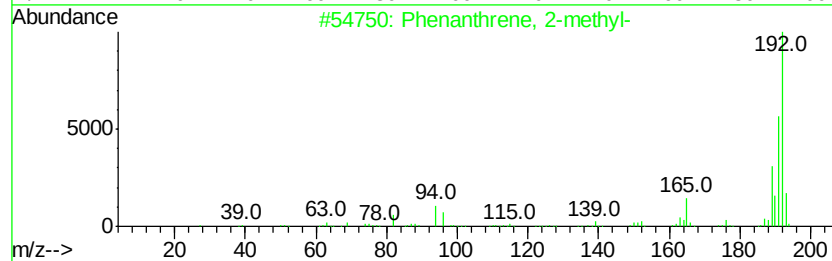
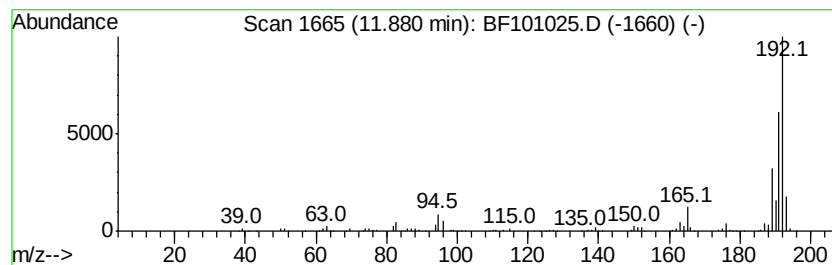
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ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.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 Phenanthrene, 2-methyl- Concentration Rank 5

| R.T.      | EstConc                 | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|--------|------------------|-------------|------|
| 11.88     | 33.81 ng                | 555431 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID            | MW     | MolForm          | CAS#        | Qual |
| 1         | 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 | 96   |
| 4         | 1H-Indene, 1-phenyl-    | 192    | C15H12           | 001961-96-2 | 94   |
| 5         | 1H-Indene, 2-phenyl-    | 192    | C15H12           | 004505-48-0 | 94   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
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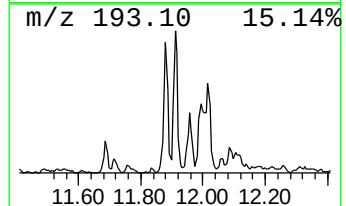
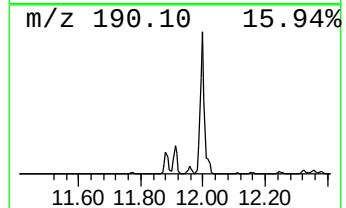
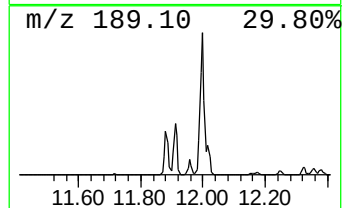
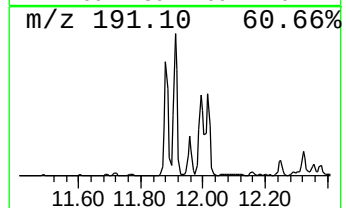
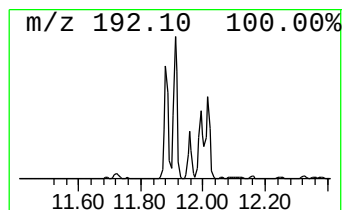
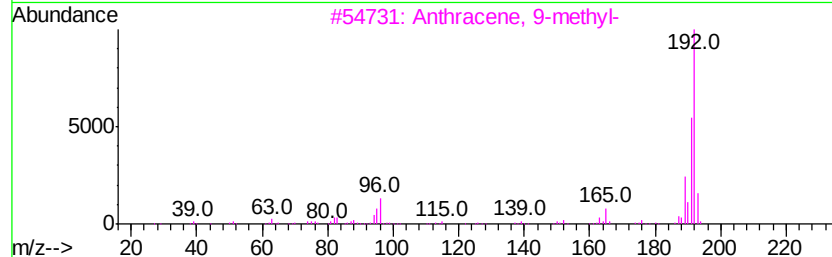
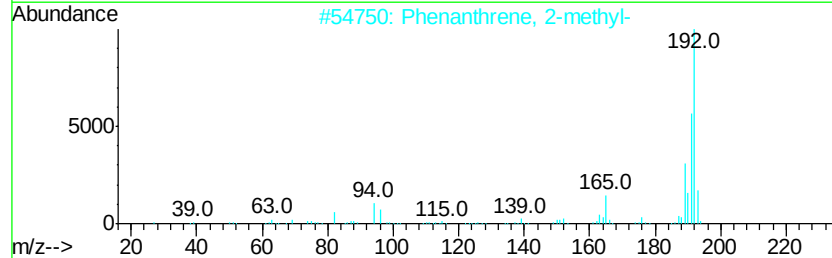
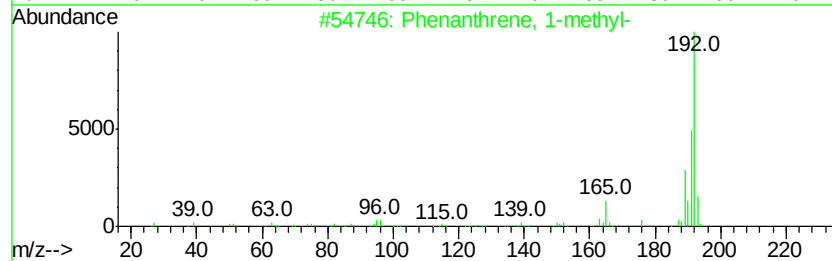
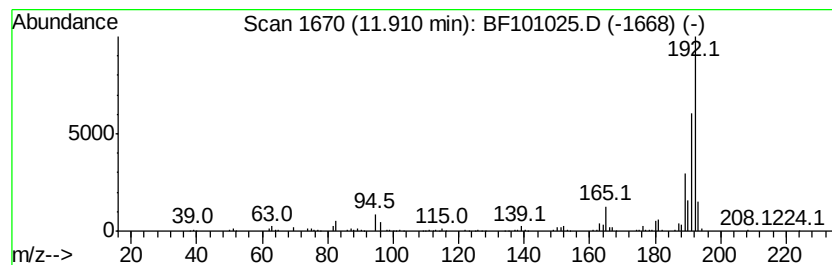
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ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 Phenanthrene, 1-methyl- Concentration Rank 3

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 11.91     | 36.47 ng                              | 598987 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID                          | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-               | 192    | C15H12           | 000832-69-9 | 97   |
| 2         | Phenanthrene, 2-methyl-               | 192    | C15H12           | 002531-84-2 | 96   |
| 3         | Anthracene, 9-methyl-                 | 192    | C15H12           | 000779-02-2 | 95   |
| 4         | 1H-Cyclopropa[1,1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 95   |
| 5         | Anthracene, 2-methyl-                 | 192    | C15H12           | 000613-12-7 | 95   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

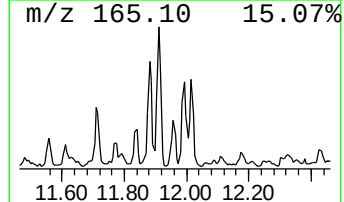
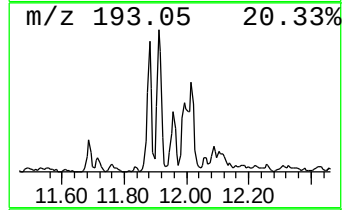
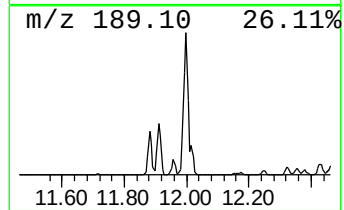
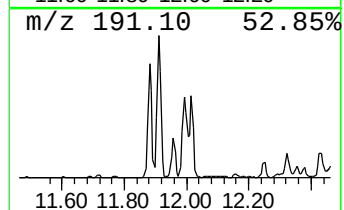
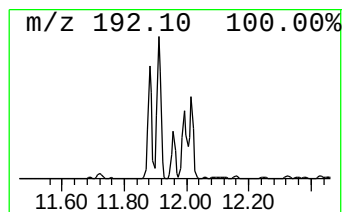
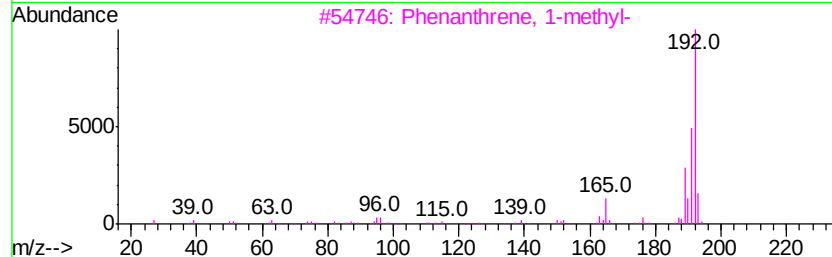
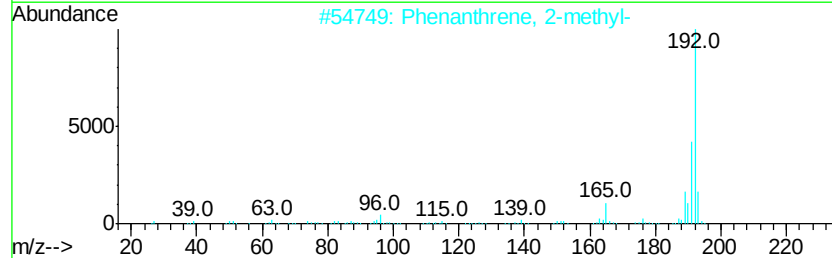
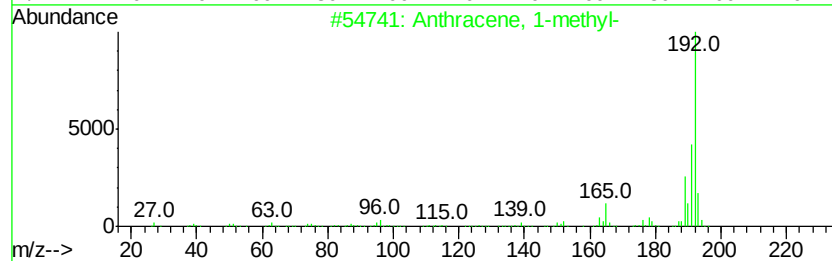
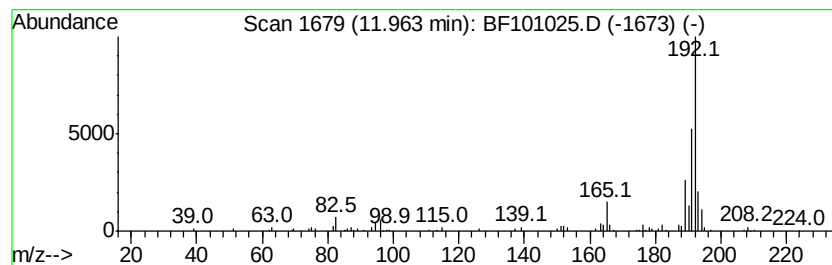
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Anthracene, 1-methyl- Concentration Rank 19

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 11.96 | 11.80 ng | 193781 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 1-methyl-                | 192 | C15H12  | 000610-48-0 | 96   |
| 2    |    | Phenanthrene, 2-methyl-              | 192 | C15H12  | 002531-84-2 | 96   |
| 3    |    | Phenanthrene, 1-methyl-              | 192 | C15H12  | 000832-69-9 | 96   |
| 4    |    | Anthracene, 2-methyl-                | 192 | C15H12  | 000613-12-7 | 96   |
| 5    |    | 1H-Cyclopropa[l]phenanthrene, 1a,... | 192 | C15H12  | 000949-41-7 | 96   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

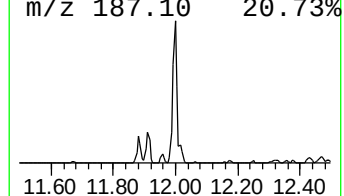
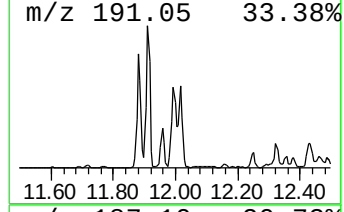
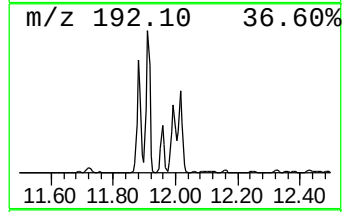
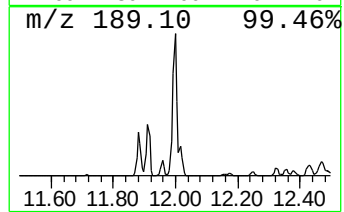
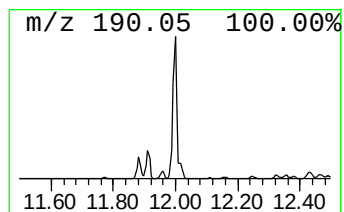
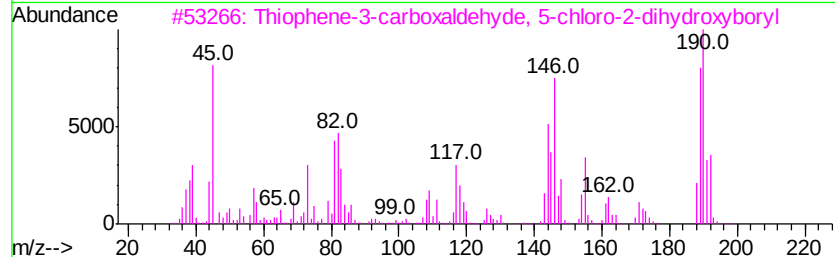
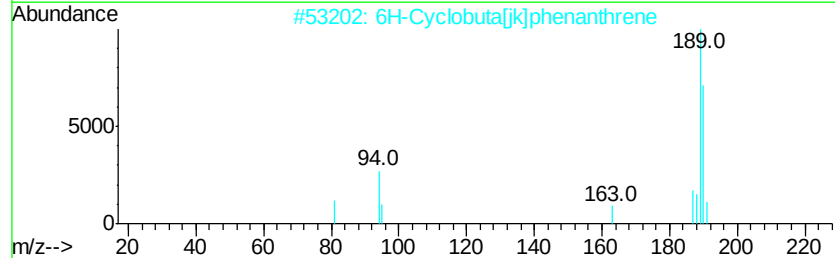
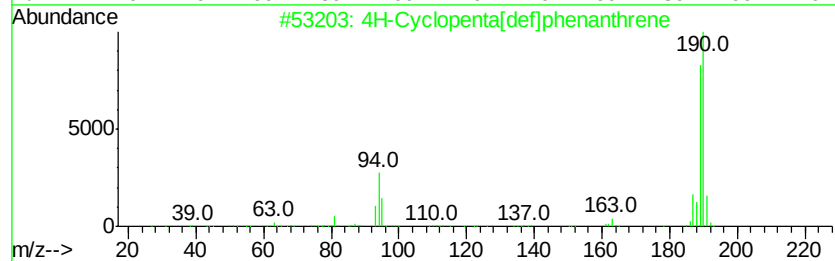
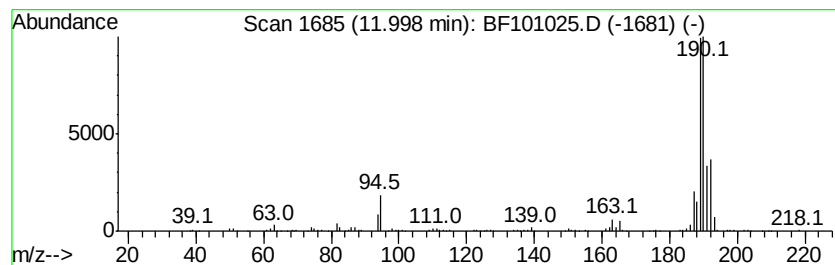
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ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 11 4H-Cyclopenta[def]phenanthrene Concentration Rank 1

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------|--------|------------------|-------------|------|
| 12.00     | 51.09 ng                            | 839273 | Phenanthrene-d10 | 11.38       |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#        | Qual |
| 1         | 4H-Cyclopenta[def]phenanthrene      | 190    | C15H10           | 000203-64-5 | 93   |
| 2         | 6H-Cyclobuta[ik]phenanthrene        | 190    | C15H10           | 083469-43-6 | 64   |
| 3         | Thiophene-3-carboxaldehyde, 5-ch... | 190    | C5H4BClO3S       | 036155-87-0 | 52   |
| 4         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 50   |
| 5         | Methyl diselenide                   | 190    | C2H6Se2          | 007101-31-7 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

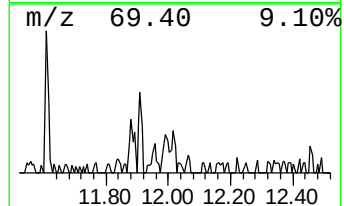
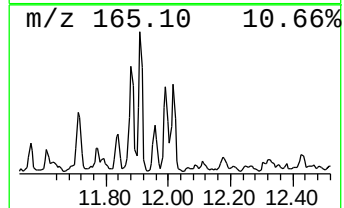
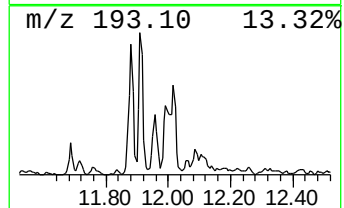
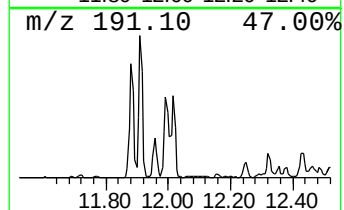
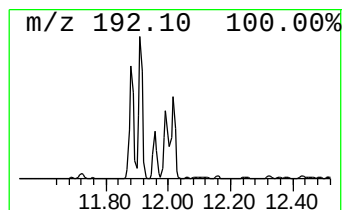
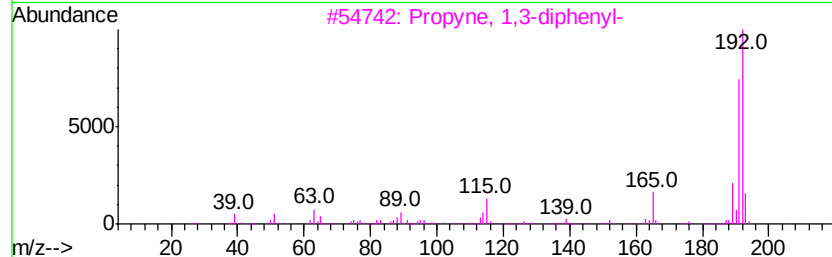
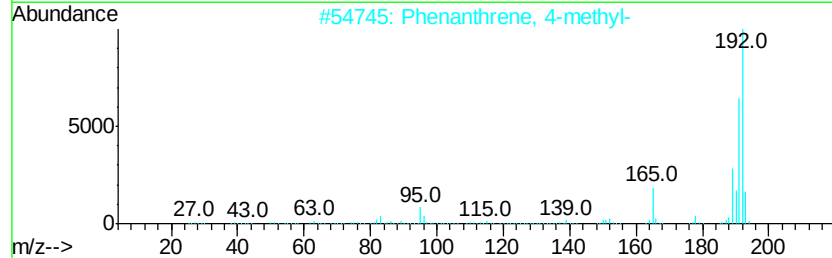
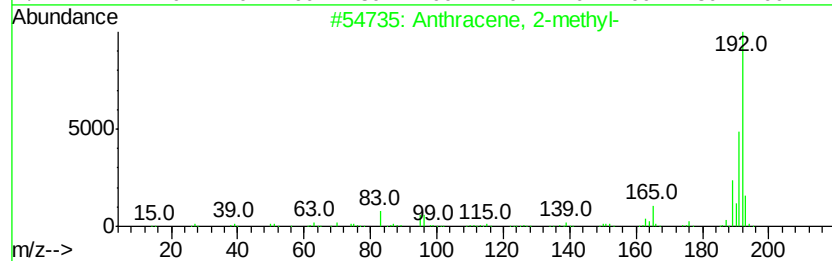
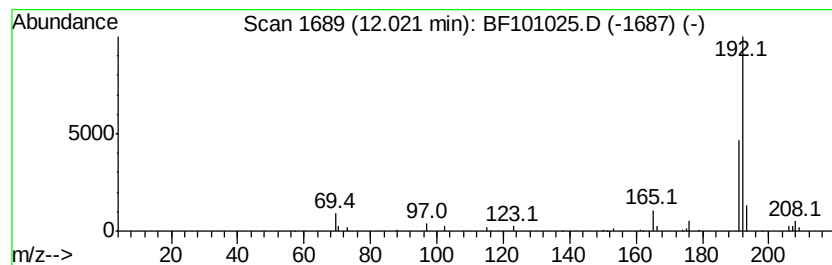
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 12 Anthracene, 2-methyl- Concentration Rank 13

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.02 | 14.36 ng | 235853 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                         | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Anthracene, 2-methyl-                | 192 | C15H12  | 000613-12-7 | 76   |
| 2    |    | Phenanthrene, 4-methyl-              | 192 | C15H12  | 000832-64-4 | 74   |
| 3    |    | Propyne, 1,3-diphenyl-               | 192 | C15H12  | 004980-70-5 | 72   |
| 4    |    | 5H-Dibenzo[ <i>a,d</i> ]cycloheptene | 192 | C15H12  | 000256-81-5 | 72   |
| 5    |    | Phenanthrene, 1-methyl-              | 192 | C15H12  | 000832-69-9 | 72   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

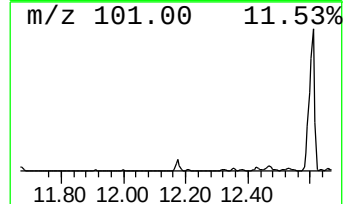
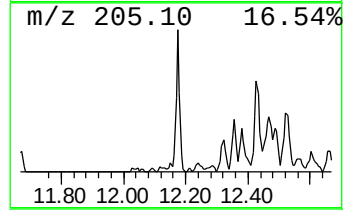
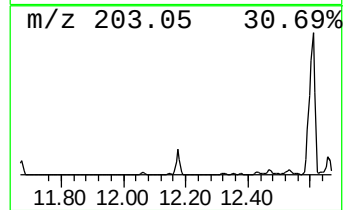
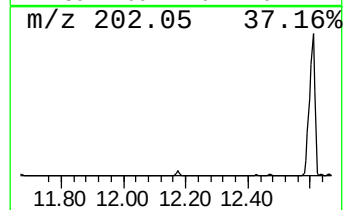
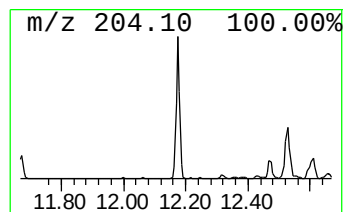
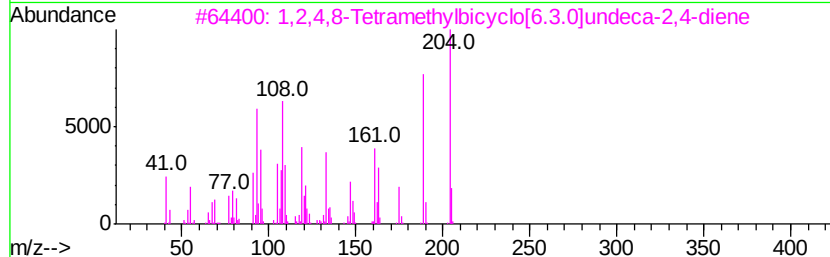
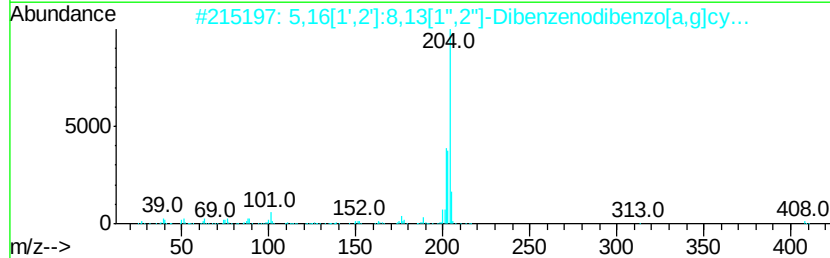
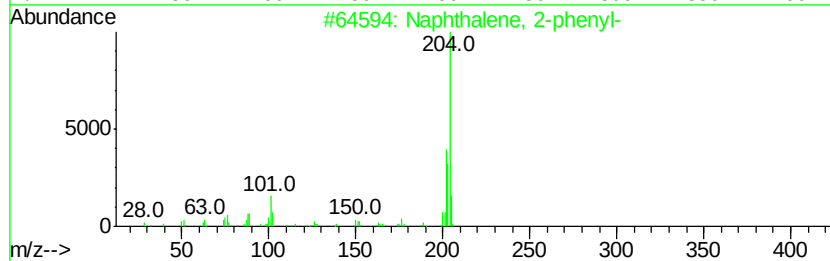
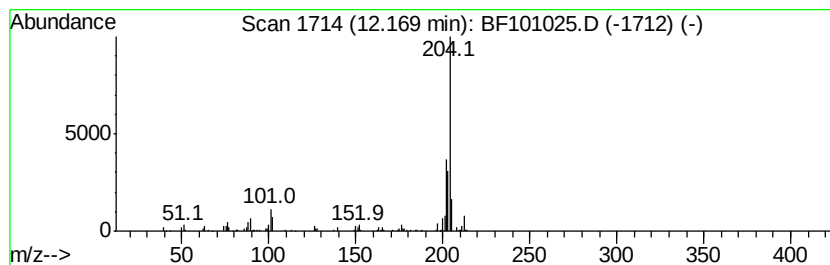
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 Naphthalene, 2-phenyl- Concentration Rank 8

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.17 | 19.45 ng | 319411 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                                      | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-                            | 204 | C16H12   | 000612-94-2 | 90   |
| 2    |    | 5,16[1',2']:8,13[1'',2'']-Dibenz...               | 408 | C32H24   | 005672-97-9 | 87   |
| 3    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24   | 137235-51-9 | 86   |
| 4    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene   | 204 | C16H12   | 006572-60-7 | 74   |
| 5    |    | [1,1'-Biphenyl]-2-ol, 5-chloro-                   | 204 | C12H9ClO | 000607-12-5 | 53   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

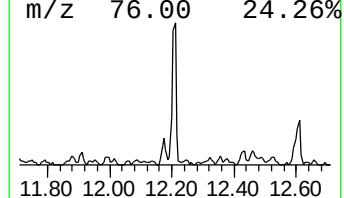
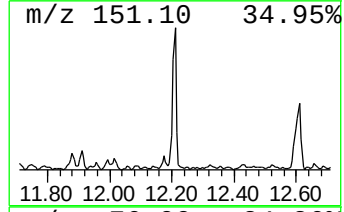
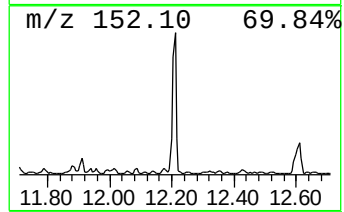
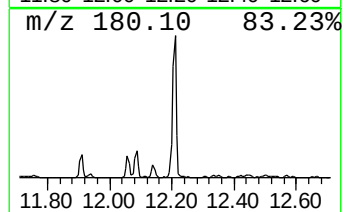
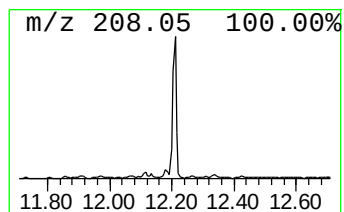
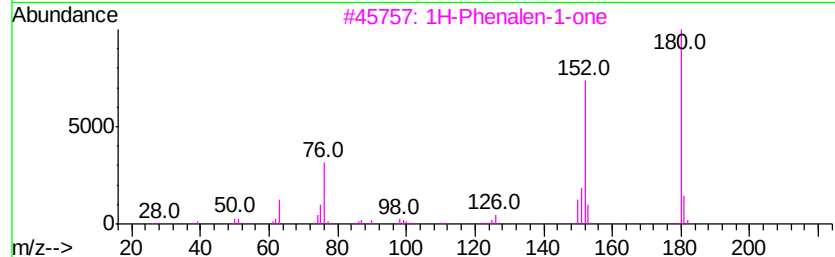
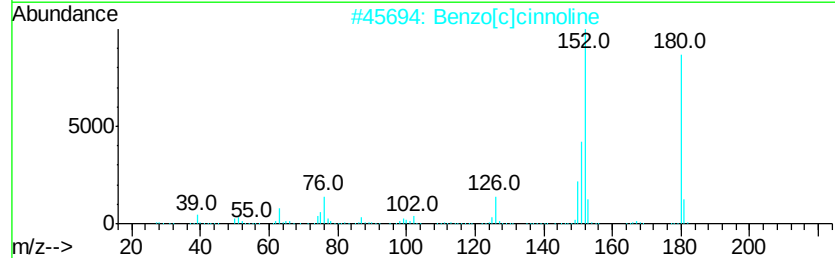
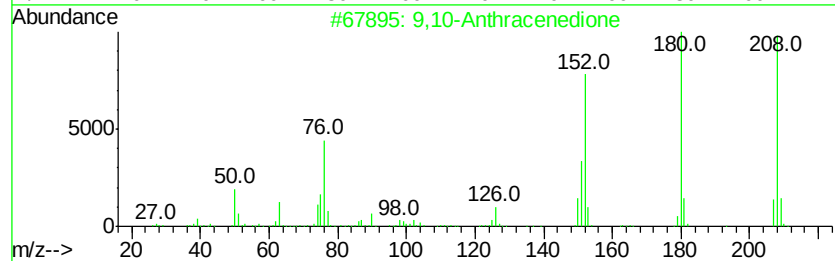
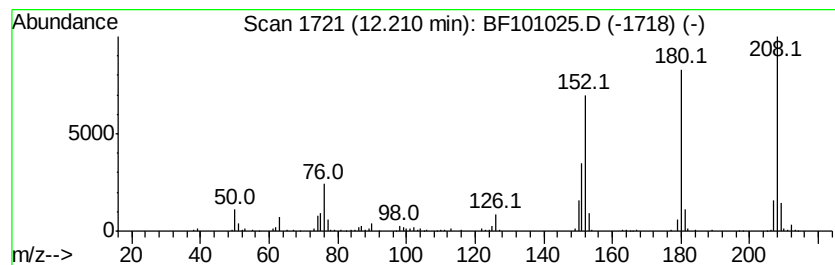
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 14 9,10-Anthracenedione Concentration Rank 7

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.21 | 24.19 ng | 397314 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione   | 208 | C14H8O2 | 000084-65-1 | 97   |
| 2    |    | Benzo[c]cinnoline      | 180 | C12H8N2 | 000230-17-1 | 90   |
| 3    |    | 1H-Phenalen-1-one      | 180 | C13H8O  | 000548-39-0 | 60   |
| 4    |    | 9,10-Phenanthrenedione | 208 | C14H8O2 | 000084-11-7 | 55   |
| 5    |    | Benzo[h]cinnoline      | 180 | C12H8N2 | 000230-31-9 | 49   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

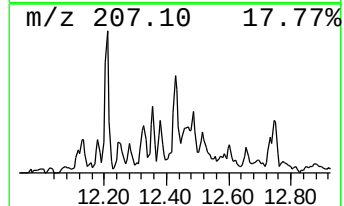
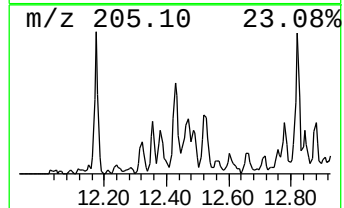
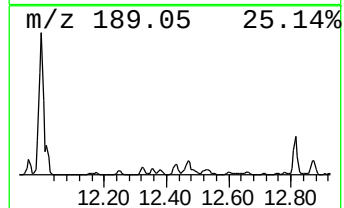
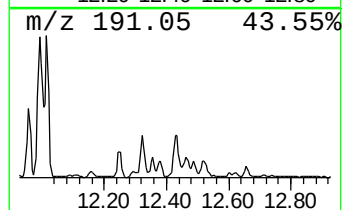
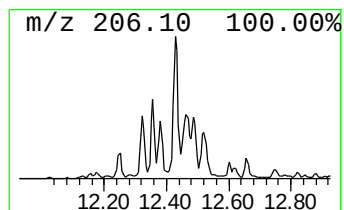
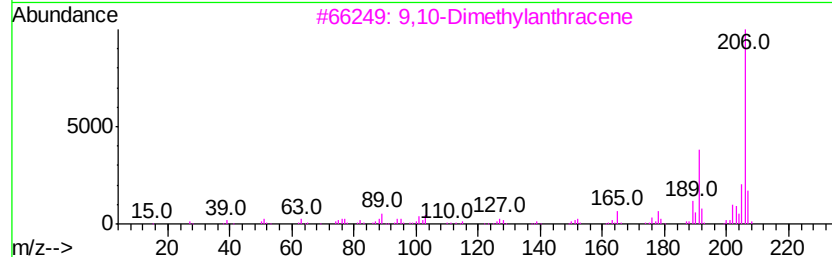
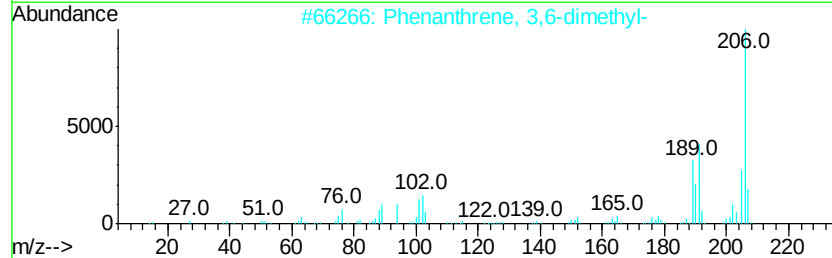
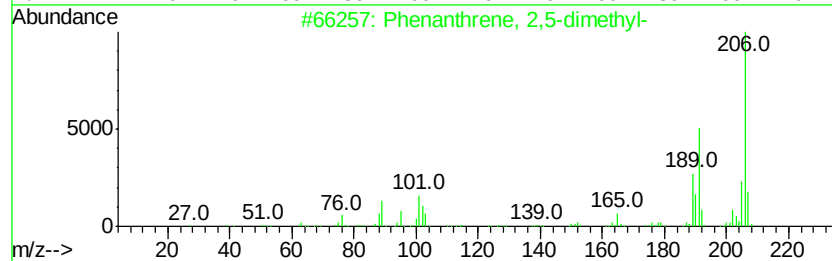
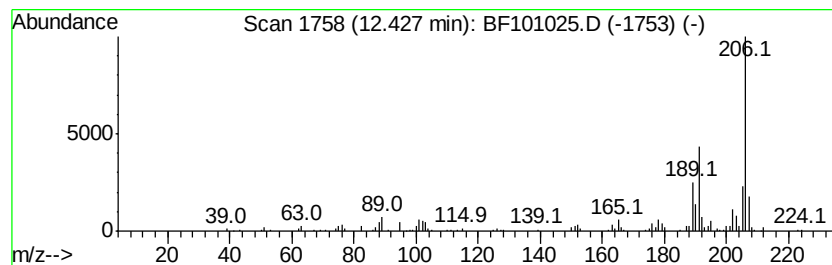
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Phenanthrene, 2,5-dimethyl- Concentration Rank 15

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.43 | 13.77 ng | 226150 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 95   |
| 2    |    | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 94   |
| 3    |    | 9,10-Dimethylanthracene     | 206 | C16H14  | 000781-43-1 | 93   |
| 4    |    | Phenanthrene, 2,3-dimethyl- | 206 | C16H14  | 003674-65-5 | 93   |
| 5    |    | Phenanthrene, 1,7-dimethyl- | 206 | C16H14  | 000483-87-4 | 90   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

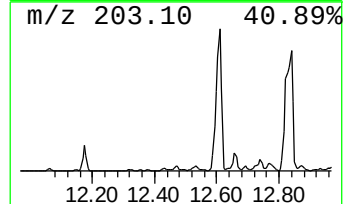
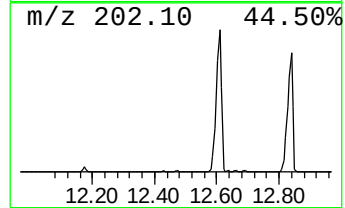
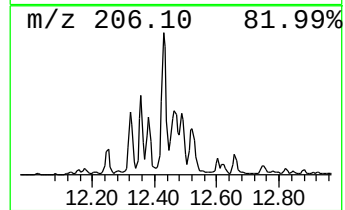
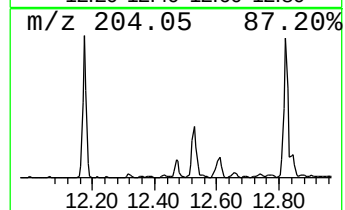
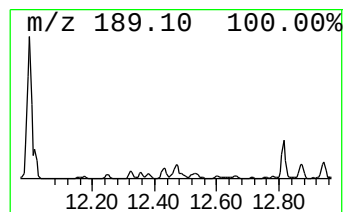
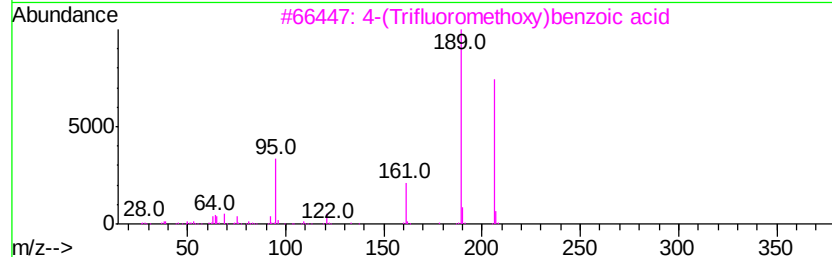
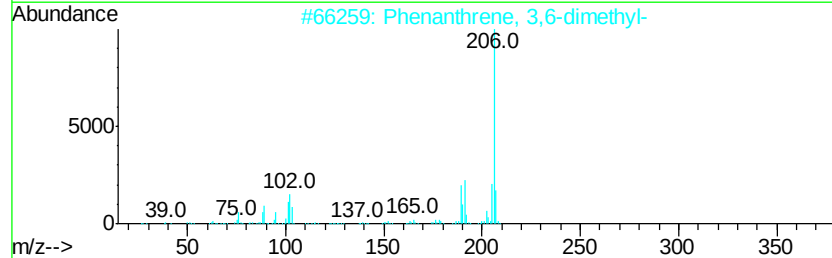
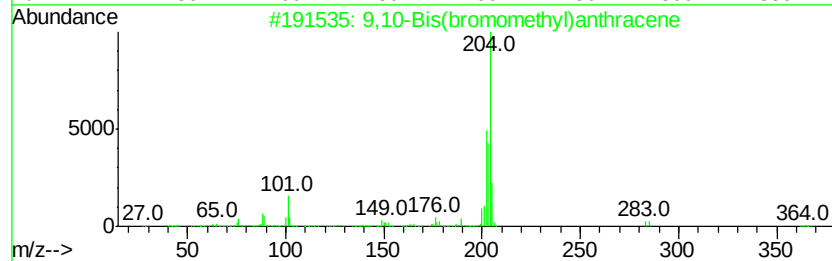
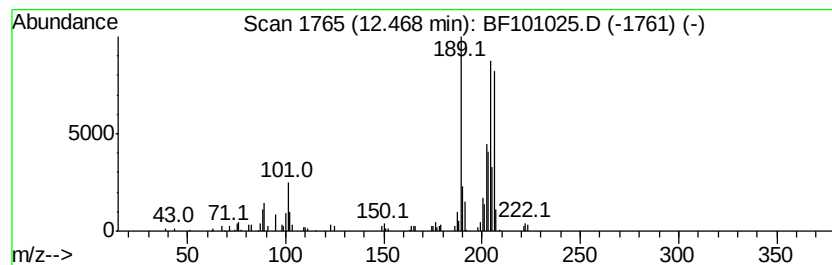
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 unknown12.47 Concentration Rank 16

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.47 | 13.59 ng | 223252 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | 9,10-Bis(bromomethyl)anthracene     | 362 | C16H12Br2 | 034373-96-1 | 43   |
| 2    |    | Phenanthrene, 3,6-dimethyl-         | 206 | C16H14    | 001576-67-6 | 35   |
| 3    |    | 4-(Trifluoromethoxy)benzoic acid    | 206 | C8H5F3O3  | 000330-12-1 | 35   |
| 4    |    | 2,5,5,8a-Tetramethyl-6,7,8,8a-te... | 204 | C14H20O   | 124957-09-1 | 35   |
| 5    |    | Levamisole                          | 204 | C11H12N2S | 014769-73-4 | 30   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

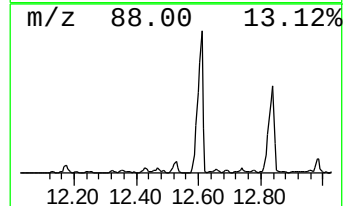
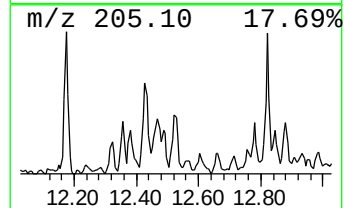
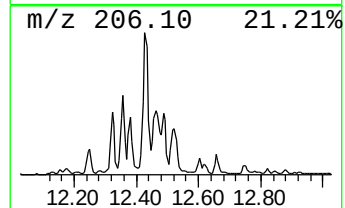
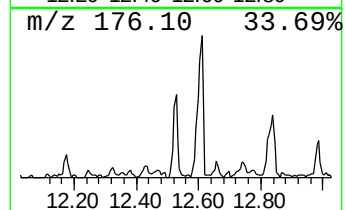
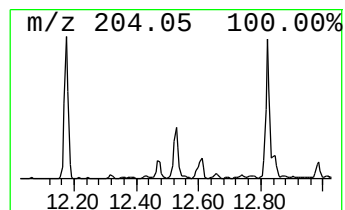
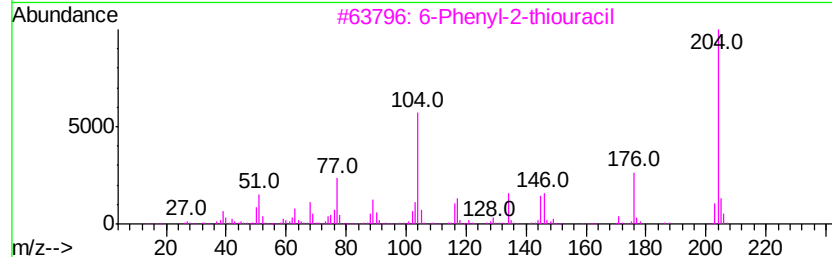
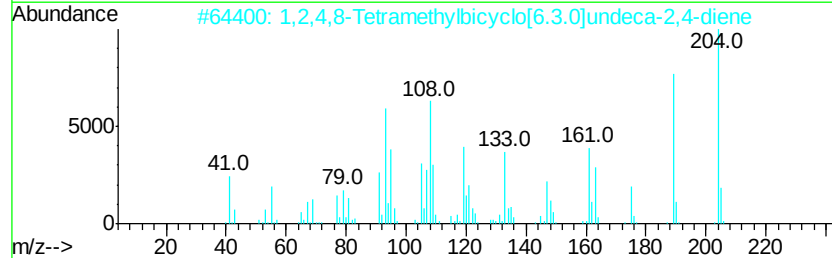
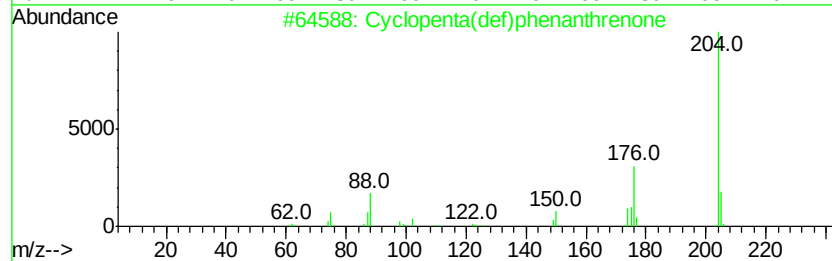
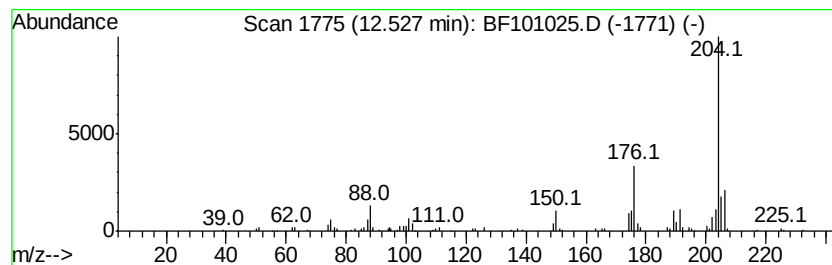
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Cyclopenta(def)phenanthrenone Concentration Rank 18

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.53 | 13.27 ng | 217978 | Phenanthrene-d10 | 11.38 |

| Hit# | of | Tentative ID                                      | MW  | MolForm   | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone                     | 204 | C15H8O    | 005737-13-3 | 96   |
| 2    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24    | 137235-51-9 | 55   |
| 3    |    | 6-Phenyl-2-thiouracil                             | 204 | C10H8N2OS | 005590-94-3 | 50   |
| 4    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile               | 204 | C14H8N2   | 001591-30-6 | 47   |
| 5    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2,4,6,8-tetraene   | 204 | C16H12    | 006572-60-7 | 43   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF113017\  
Data File : BF101025.D  
Acq On : 30 Nov 2017 18:50  
Operator : SJ/JU  
Sample : I6610-11 2X  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF113017.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

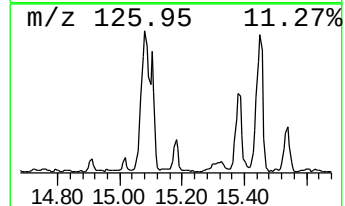
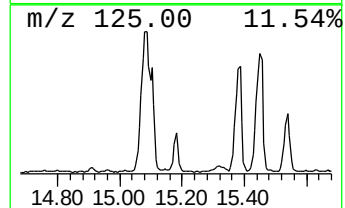
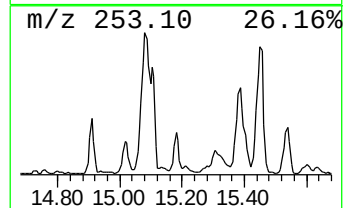
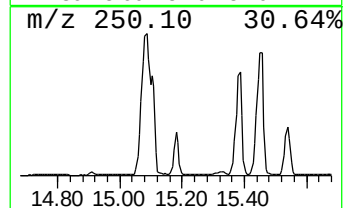
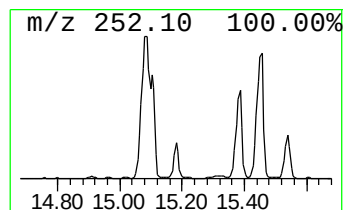
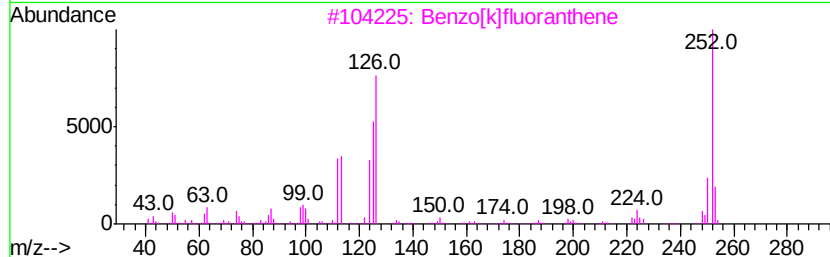
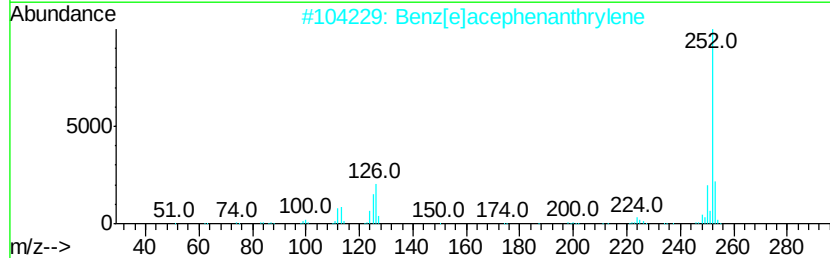
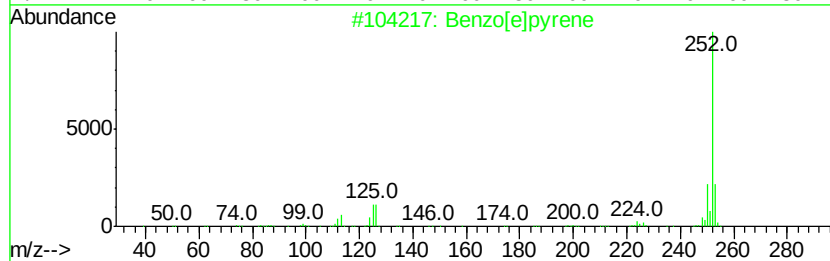
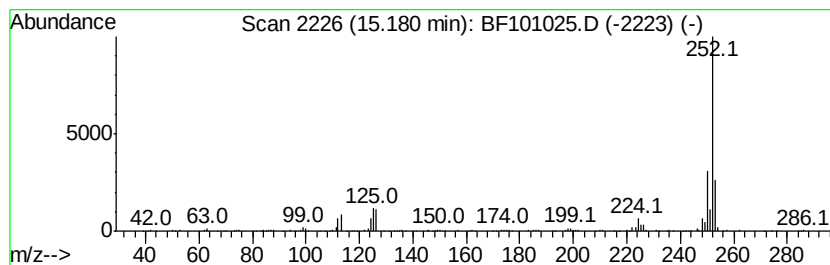
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 17

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.18 | 13.57 ng | 250634 | Perylene-d12     | 15.50 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 97   |
| 2    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 3    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 90   |
| 5    |    | Benzo[j]fluoranthene      | 252 | C20H12  | 000205-82-3 | 86   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF113017\  
 Data File : BF101025.D  
 Acq On : 30 Nov 2017 18:50  
 Operator : SJ/JU  
 Sample : I6610-11 2X  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 SB-7(4-6)-20171127

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF113017.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 |
| unknown6.62          | 6.62  | 34.6    | ng    | 546746   | 1                     | 6.85  | 315908 | 20.0 |
| Naphthalene, 1-me... | 8.95  | 15.5    | ng    | 371775   | 2                     | 8.13  | 480651 | 20.0 |
| Naphthalene, 2,7-... | 9.55  | 11.7    | ng    | 262724   | 3                     | 9.89  | 450737 | 20.0 |
| 9H-Fluorene, 2-me... | 10.99 | 14.1    | ng    | 232290   | 4                     | 11.38 | 328518 | 20.0 |
| 9H-Fluoren-9-one     | 11.19 | 15.7    | ng    | 257986   | 4                     | 11.38 | 328518 | 20.0 |
| Dibenzothiophene     | 11.27 | 18.3    | ng    | 300046   | 4                     | 11.38 | 328518 | 20.0 |
| Phenanthrene, 2-m... | 11.88 | 33.8    | ng    | 555431   | 4                     | 11.38 | 328518 | 20.0 |
| Phenanthrene, 1-m... | 11.91 | 36.5    | ng    | 598987   | 4                     | 11.38 | 328518 | 20.0 |
| Anthracene, 1-met... | 11.96 | 11.8    | ng    | 193781   | 4                     | 11.38 | 328518 | 20.0 |
| 4H-Cyclopenta[def... | 12.00 | 51.1    | ng    | 839273   | 4                     | 11.38 | 328518 | 20.0 |
| Anthracene, 2-met... | 12.02 | 14.4    | ng    | 235853   | 4                     | 11.38 | 328518 | 20.0 |
| Naphthalene, 2-ph... | 12.17 | 19.4    | ng    | 319411   | 4                     | 11.38 | 328518 | 20.0 |
| 9,10-Anthracenedione | 12.21 | 24.2    | ng    | 397314   | 4                     | 11.38 | 328518 | 20.0 |
| Phenanthrene, 2,5... | 12.43 | 13.8    | ng    | 226150   | 4                     | 11.38 | 328518 | 20.0 |
| unknown12.47         | 12.47 | 13.6    | ng    | 223252   | 4                     | 11.38 | 328518 | 20.0 |
| Cyclopenta(def)ph... | 12.53 | 13.3    | ng    | 217978   | 4                     | 11.38 | 328518 | 20.0 |
| Benzo[e]pyrene       | 15.18 | 13.6    | ng    | 250634   | 6                     | 15.50 | 369292 | 20.0 |