

Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
 Data File : BF102227.D  
 Acq On : 19 Jan 2018 20:11  
 Operator : SJ/JU  
 Sample : J1189-05  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2B-2

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-BF010918.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         | 4.916       | 476           | 481         | 489          | rBV      | 163126         | 238777        | 6.62%           | 0.405%        |
| 2         | 5.328       | 546           | 551         | 554          | rBV      | 3077323        | 3017813       | 83.62%          | 5.119%        |
| 3         | 6.357       | 721           | 726         | 731          | rBV      | 2841989        | 3129875       | 86.72%          | 5.309%        |
| 4         | 6.487       | 743           | 748         | 751          | rBV      | 3314496        | 3110373       | 86.18%          | 5.276%        |
| 5         | 6.716       | 783           | 787         | 791          | rBV      | 1138436        | 904651        | 25.07%          | 1.534%        |
| 6         | 6.875       | 809           | 814         | 817          | rBV      | 2724233        | 2381399       | 65.98%          | 4.039%        |
| 7         | 7.287       | 878           | 884         | 887          | rBV      | 1969954        | 1986769       | 55.05%          | 3.370%        |
| 8         | 7.998       | 1001          | 1005        | 1007         | rBV      | 1496113        | 1243529       | 34.46%          | 2.109%        |
| 9         | 8.022       | 1007          | 1009        | 1012         | rVB      | 227755         | 173127        | 4.80%           | 0.294%        |
| 10        | 8.710       | 1120          | 1126        | 1129         | rBV      | 100604         | 81772         | 2.27%           | 0.139%        |
| 11        | 8.810       | 1140          | 1143        | 1147         | rVB      | 102197         | 84779         | 2.35%           | 0.144%        |
| 12        | 9.081       | 1183          | 1189        | 1192         | rVB      | 3231961        | 3278342       | 90.84%          | 5.561%        |
| 13        | 9.410       | 1241          | 1245        | 1247         | rVV      | 84294          | 80680         | 2.24%           | 0.137%        |
| 14        | 9.475       | 1252          | 1256        | 1258         | rVV      | 849900         | 752895        | 20.86%          | 1.277%        |
| 15        | 9.610       | 1276          | 1279        | 1284         | rVV      | 242670         | 201933        | 5.60%           | 0.343%        |
| 16        | 9.686       | 1284          | 1292        | 1295         | rVV      | 89109          | 83819         | 2.32%           | 0.142%        |
| 17        | 9.751       | 1295          | 1303        | 1306         | rVV2     | 1509268        | 1352793       | 37.48%          | 2.295%        |
| 18        | 9.781       | 1306          | 1308        | 1312         | rVB      | 96781          | 90722         | 2.51%           | 0.154%        |
| 19        | 9.951       | 1334          | 1337        | 1342         | rBV      | 194213         | 208449        | 5.78%           | 0.354%        |
| 20        | 10.163      | 1368          | 1373        | 1374         | rBV2     | 135603         | 168977        | 4.68%           | 0.287%        |
| 21        | 10.181      | 1374          | 1376        | 1379         | rVB      | 114705         | 118189        | 3.27%           | 0.200%        |
| 22        | 10.298      | 1392          | 1396        | 1401         | rVB      | 150334         | 156946        | 4.35%           | 0.266%        |
| 23        | 10.451      | 1420          | 1422        | 1426         | rBV2     | 84180          | 85014         | 2.36%           | 0.144%        |
| 24        | 10.539      | 1429          | 1437        | 1441         | rBV      | 2094006        | 2140415       | 59.31%          | 3.630%        |
| 25        | 10.657      | 1454          | 1457        | 1461         | rBV2     | 129054         | 150547        | 4.17%           | 0.255%        |
| 26        | 11.039      | 1519          | 1522        | 1526         | rVB      | 351417         | 270897        | 7.51%           | 0.459%        |
| 27        | 11.104      | 1526          | 1533        | 1535         | rBV4     | 92204          | 180607        | 5.00%           | 0.306%        |
| 28        | 11.128      | 1535          | 1537        | 1544         | rVB      | 130555         | 139087        | 3.85%           | 0.236%        |
| 29        | 11.239      | 1551          | 1556        | 1557         | rBV      | 1353367        | 1297223       | 35.94%          | 2.200%        |
| 30        | 11.263      | 1557          | 1560        | 1563         | rVV      | 2687874        | 2252306       | 62.41%          | 3.820%        |
| 31        | 11.310      | 1566          | 1568        | 1571         | rVB      | 221121         | 160792        | 4.46%           | 0.273%        |
| 32        | 11.339      | 1571          | 1573        | 1580         | rVB2     | 83463          | 92401         | 2.56%           | 0.157%        |
| 33        | 11.469      | 1592          | 1595        | 1597         | rVB      | 456379         | 348093        | 9.65%           | 0.590%        |
| 34        | 11.528      | 1602          | 1605        | 1609         | rBV3     | 109094         | 106117        | 2.94%           | 0.180%        |

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 ClientSampleId :  
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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-BF010918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 11.563 | 1609 | 1611 | 1616 | rBV4 | 80624   | 87154   | 2.41%   | 0.148% |
| 36 | 11.733 | 1635 | 1640 | 1643 | rBV  | 399273  | 379982  | 10.53%  | 0.645% |
| 37 | 11.763 | 1643 | 1645 | 1649 | rVV  | 585007  | 584636  | 16.20%  | 0.992% |
| 38 | 11.804 | 1649 | 1652 | 1656 | rVB2 | 147363  | 169985  | 4.71%   | 0.288% |
| 39 | 11.845 | 1656 | 1659 | 1661 | rBV  | 433777  | 422238  | 11.70%  | 0.716% |
| 40 | 11.869 | 1661 | 1663 | 1667 | rVB  | 294524  | 235670  | 6.53%   | 0.400% |
| 41 | 11.916 | 1667 | 1671 | 1673 | rBV3 | 102099  | 126873  | 3.52%   | 0.215% |
| 42 | 11.939 | 1673 | 1675 | 1678 | rVB2 | 81970   | 77296   | 2.14%   | 0.131% |
| 43 | 12.033 | 1688 | 1691 | 1693 | rVV  | 305817  | 271775  | 7.53%   | 0.461% |
| 44 | 12.057 | 1693 | 1695 | 1698 | rVV  | 714228  | 603944  | 16.73%  | 1.024% |
| 45 | 12.180 | 1710 | 1716 | 1719 | rBV3 | 101115  | 121523  | 3.37%   | 0.206% |
| 46 | 12.286 | 1730 | 1734 | 1738 | rVV2 | 191197  | 290056  | 8.04%   | 0.492% |
| 47 | 12.322 | 1738 | 1740 | 1742 | rVV2 | 109250  | 109182  | 3.03%   | 0.185% |
| 48 | 12.369 | 1746 | 1748 | 1752 | rVV  | 259903  | 291226  | 8.07%   | 0.494% |
| 49 | 12.451 | 1752 | 1762 | 1767 | rVV  | 2880063 | 3609003 | 100.00% | 6.121% |
| 50 | 12.539 | 1774 | 1777 | 1780 | rVV  | 190620  | 219870  | 6.09%   | 0.373% |
| 51 | 12.580 | 1781 | 1784 | 1790 | rVV4 | 229709  | 318610  | 8.83%   | 0.540% |
| 52 | 12.680 | 1794 | 1801 | 1804 | rVV2 | 2476021 | 2735332 | 75.79%  | 4.640% |
| 53 | 12.722 | 1806 | 1808 | 1816 | rVB3 | 188161  | 265449  | 7.36%   | 0.450% |
| 54 | 12.792 | 1817 | 1820 | 1822 | rBV  | 178257  | 172736  | 4.79%   | 0.293% |
| 55 | 12.822 | 1822 | 1825 | 1831 | rVB  | 2781152 | 2964058 | 82.13%  | 5.028% |
| 56 | 12.898 | 1832 | 1838 | 1841 | rBV3 | 212630  | 346708  | 9.61%   | 0.588% |
| 57 | 12.980 | 1849 | 1852 | 1853 | rVV2 | 184810  | 196115  | 5.43%   | 0.333% |
| 58 | 13.004 | 1853 | 1856 | 1858 | rVB  | 280066  | 279315  | 7.74%   | 0.474% |
| 59 | 13.069 | 1864 | 1867 | 1869 | rVV  | 161733  | 131097  | 3.63%   | 0.222% |
| 60 | 13.104 | 1869 | 1873 | 1876 | rVV  | 315849  | 320466  | 8.88%   | 0.544% |
| 61 | 13.198 | 1886 | 1889 | 1892 | rBV  | 152321  | 115816  | 3.21%   | 0.196% |
| 62 | 13.227 | 1892 | 1894 | 1898 | rBV2 | 160253  | 139889  | 3.88%   | 0.237% |
| 63 | 13.410 | 1917 | 1925 | 1930 | rBV8 | 115183  | 320478  | 8.88%   | 0.544% |
| 64 | 13.510 | 1939 | 1942 | 1946 | rVB  | 311436  | 280907  | 7.78%   | 0.476% |
| 65 | 13.616 | 1956 | 1960 | 1963 | rBV2 | 231914  | 280404  | 7.77%   | 0.476% |
| 66 | 13.651 | 1963 | 1966 | 1968 | rVV  | 250634  | 257962  | 7.15%   | 0.438% |
| 67 | 13.669 | 1968 | 1969 | 1974 | rVV3 | 166471  | 238609  | 6.61%   | 0.405% |
| 68 | 13.716 | 1974 | 1977 | 1980 | rVV  | 915506  | 826498  | 22.90%  | 1.402% |
| 69 | 13.874 | 1996 | 2004 | 2006 | rBV2 | 1378730 | 2168326 | 60.08%  | 3.678% |
| 70 | 13.898 | 2006 | 2008 | 2014 | rVV  | 1101612 | 1059967 | 29.37%  | 1.798% |
| 71 | 13.974 | 2018 | 2021 | 2023 | rVV2 | 93102   | 85860   | 2.38%   | 0.146% |

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Instrument :  
 BNA\_F  
 ClientSampleId :  
 2B-2

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-BF010918.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |       |        |         |        |        |
|-----|--------|------|------|------|-------|--------|---------|--------|--------|
| 72  | 14.016 | 2023 | 2028 | 2029 | rVV3  | 73847  | 93527   | 2.59%  | 0.159% |
| 73  | 14.045 | 2029 | 2033 | 2038 | rVV5  | 136102 | 281130  | 7.79%  | 0.477% |
| 74  | 14.098 | 2040 | 2042 | 2045 | rVV   | 108356 | 101513  | 2.81%  | 0.172% |
| 75  | 14.257 | 2064 | 2069 | 2072 | rVB   | 189145 | 195957  | 5.43%  | 0.332% |
| 76  | 14.292 | 2072 | 2075 | 2079 | rVV2  | 157314 | 174620  | 4.84%  | 0.296% |
| 77  | 14.345 | 2079 | 2084 | 2087 | rVV3  | 165156 | 231217  | 6.41%  | 0.392% |
| 78  | 14.380 | 2087 | 2090 | 2092 | rVV   | 117338 | 123742  | 3.43%  | 0.210% |
| 79  | 14.404 | 2092 | 2094 | 2098 | rVV3  | 85013  | 88322   | 2.45%  | 0.150% |
| 80  | 14.451 | 2100 | 2102 | 2108 | rVB2  | 67568  | 81120   | 2.25%  | 0.138% |
| 81  | 14.563 | 2117 | 2121 | 2129 | rBV7  | 88364  | 160461  | 4.45%  | 0.272% |
| 82  | 14.663 | 2136 | 2138 | 2142 | rVB4  | 76425  | 80684   | 2.24%  | 0.137% |
| 83  | 14.721 | 2143 | 2148 | 2149 | rBV2  | 65151  | 94223   | 2.61%  | 0.160% |
| 84  | 14.886 | 2172 | 2176 | 2179 | rBV   | 722099 | 1098545 | 30.44% | 1.863% |
| 85  | 14.986 | 2191 | 2193 | 2196 | rVB   | 130118 | 119752  | 3.32%  | 0.203% |
| 86  | 15.098 | 2205 | 2212 | 2215 | rBV5  | 72450  | 171344  | 4.75%  | 0.291% |
| 87  | 15.174 | 2221 | 2225 | 2231 | rVB   | 473254 | 578676  | 16.03% | 0.982% |
| 88  | 15.233 | 2231 | 2235 | 2240 | rVB   | 635396 | 678532  | 18.80% | 1.151% |
| 89  | 15.292 | 2240 | 2245 | 2248 | rBV   | 683187 | 849108  | 23.53% | 1.440% |
| 90  | 15.321 | 2248 | 2250 | 2256 | rVB2  | 189744 | 241013  | 6.68%  | 0.409% |
| 91  | 15.774 | 2324 | 2327 | 2332 | rVB4  | 70238  | 94692   | 2.62%  | 0.161% |
| 92  | 16.057 | 2370 | 2375 | 2382 | rVB8  | 61591  | 131275  | 3.64%  | 0.223% |
| 93  | 16.357 | 2422 | 2426 | 2441 | rVB8  | 84535  | 220686  | 6.11%  | 0.374% |
| 94  | 16.674 | 2474 | 2480 | 2486 | rVB2  | 307391 | 585624  | 16.23% | 0.993% |
| 95  | 16.839 | 2502 | 2508 | 2513 | rBV3  | 69053  | 140154  | 3.88%  | 0.238% |
| 96  | 16.892 | 2513 | 2517 | 2521 | rVV2  | 59459  | 98534   | 2.73%  | 0.167% |
| 97  | 17.092 | 2544 | 2551 | 2560 | rVB   | 253072 | 495376  | 13.73% | 0.840% |
| 98  | 17.309 | 2582 | 2588 | 2595 | rBV   | 71323  | 141990  | 3.93%  | 0.241% |
| 99  | 19.168 | 2896 | 2904 | 2909 | rBV10 | 74571  | 240606  | 6.67%  | 0.408% |
| 100 | 19.386 | 2931 | 2941 | 2946 | rBV4  | 54913  | 189077  | 5.24%  | 0.321% |

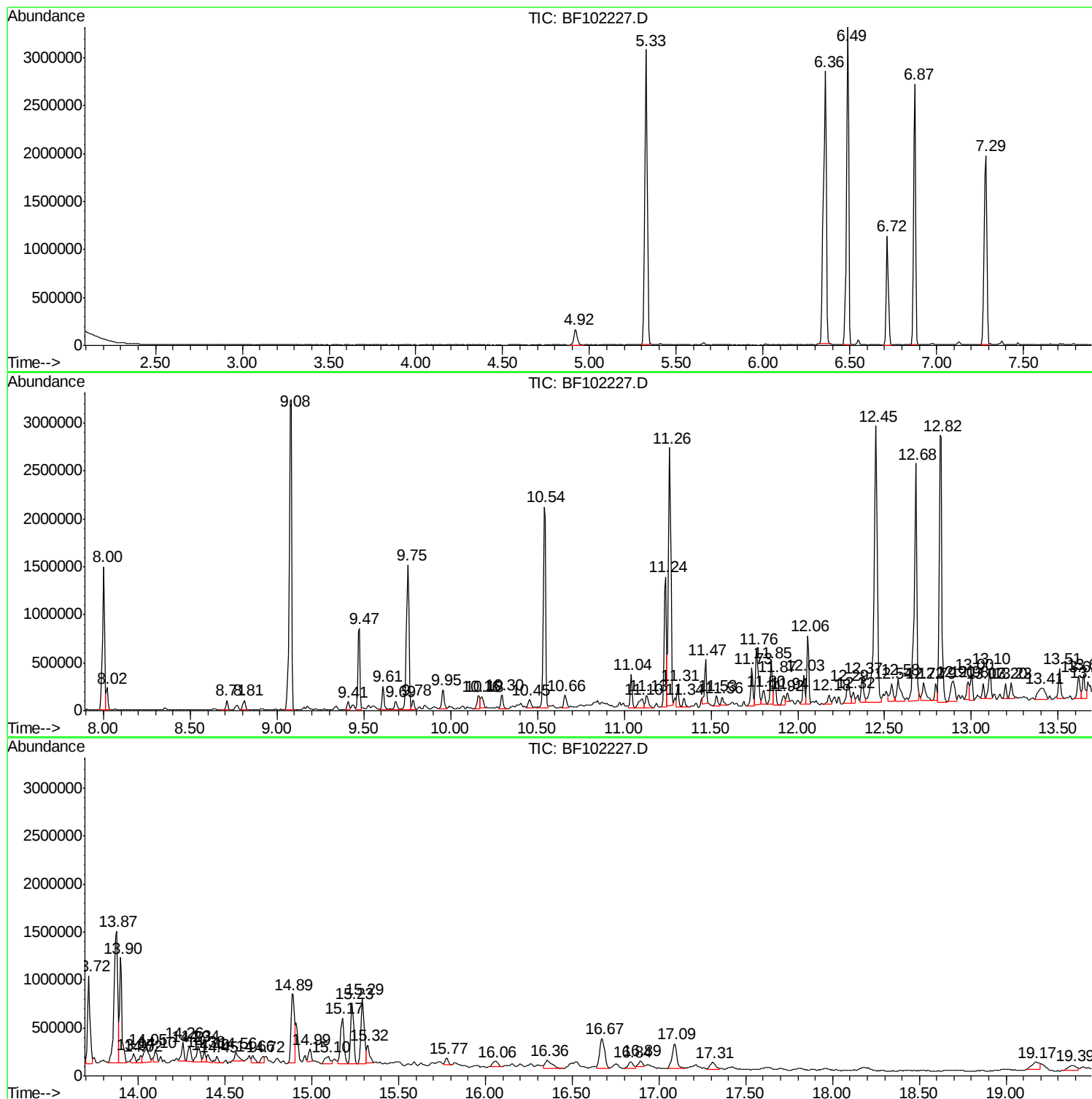
Sum of corrected areas: 58956623

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ClientSampled :  
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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.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\BF011918\  
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Acq On : 19 Jan 2018 20:11  
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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

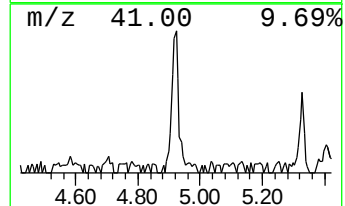
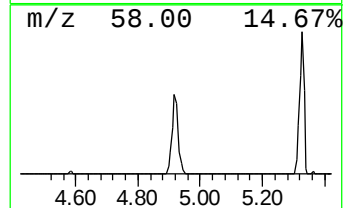
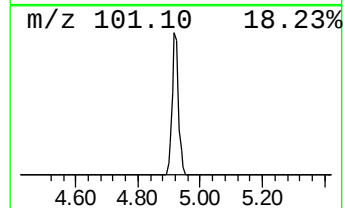
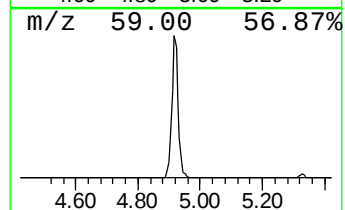
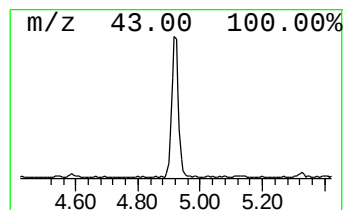
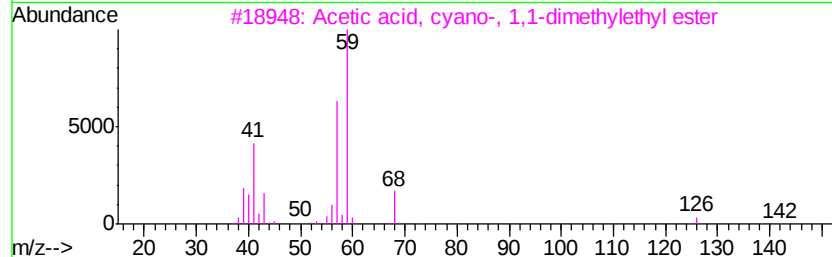
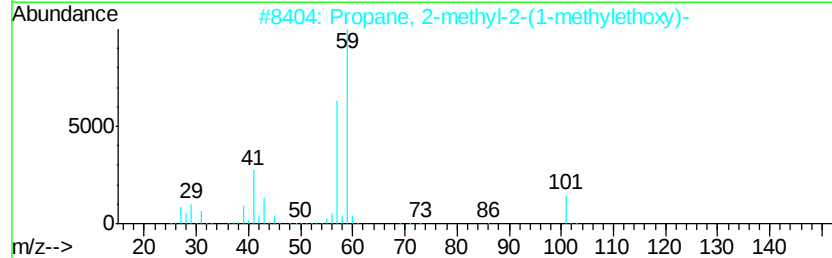
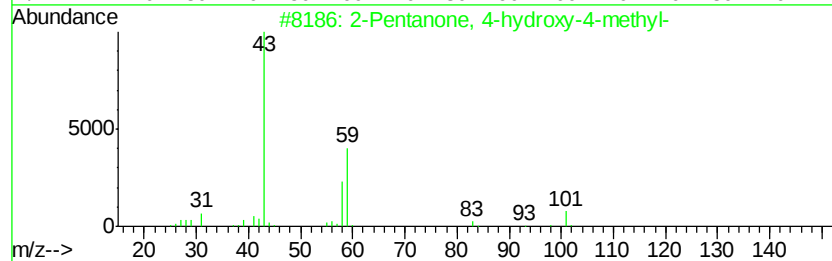
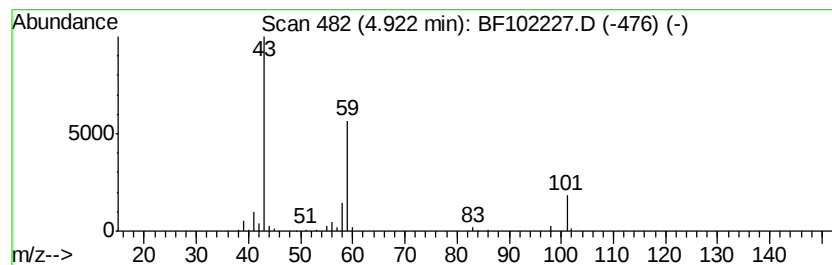
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 2-Pentanone, 4-hydroxy-4-me... Concentration Rank 10

| R.T. | EstConc | Area   | Relative to ISTD       | R.T. |
|------|---------|--------|------------------------|------|
| 4.92 | 5.28 ng | 238777 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|--------------------------------------|-----|----------|-------------|------|
| 1    | 5  | 2-Pentanone, 4-hydroxy-4-methyl-     | 116 | C6H12O2  | 000123-42-2 | 50   |
| 2    |    | Propane, 2-methyl-2-(1-methyleth...  | 116 | C7H16O   | 017348-59-3 | 36   |
| 3    |    | Acetic acid, cyano-, 1,1-dimethyl... | 141 | C7H11NO2 | 001116-98-9 | 23   |
| 4    |    | Propane, 2-ethoxy-2-methyl-          | 102 | C6H14O   | 000637-92-3 | 23   |
| 5    |    | Acetone                              | 58  | C3H6O    | 000067-64-1 | 12   |



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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

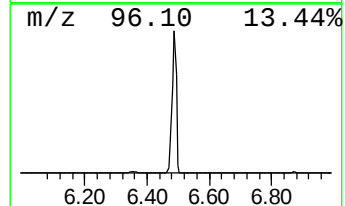
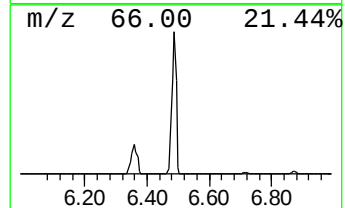
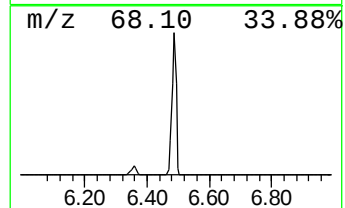
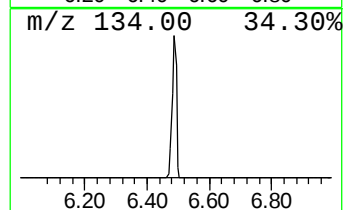
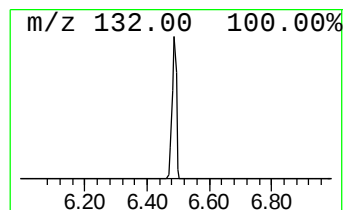
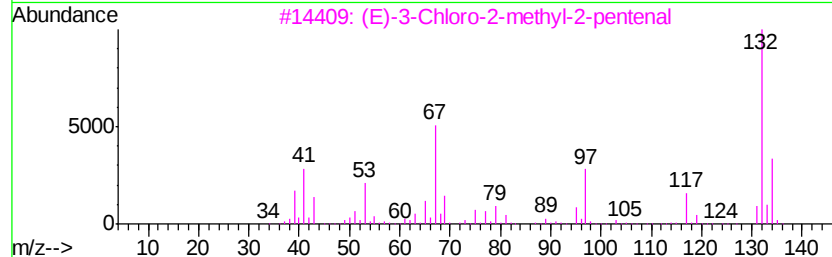
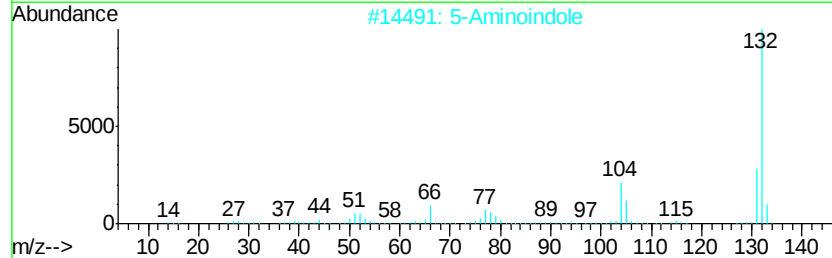
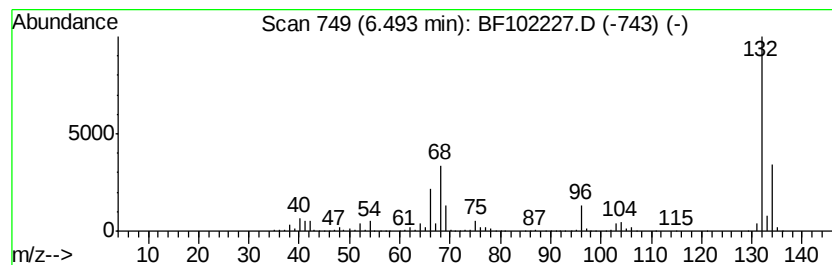
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown6.49 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.49 | 68.76 ng | 3110370 | 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 | 27   |
| 2    |    | 5-Aminoindole                       | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    |    | (E)-3-Chloro-2-methyl-2-pentenal    | 132 | C6H9ClO   | 031357-76-3  | 9    |
| 4    |    | 2H-Cyclopenta[d]pyridazine, 2-me... | 132 | C8H8N2    | 022291-85-6  | 9    |
| 5    |    | 4-Chloro-2-fluoro-pyrimidine        | 132 | C4H2ClFN2 | 051422-00-5  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
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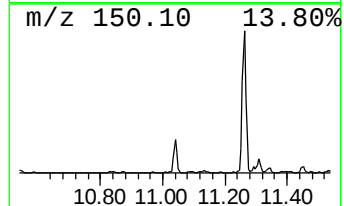
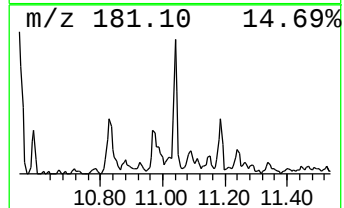
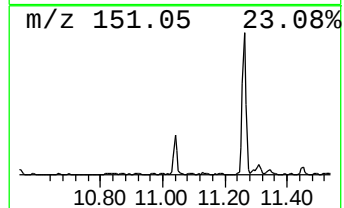
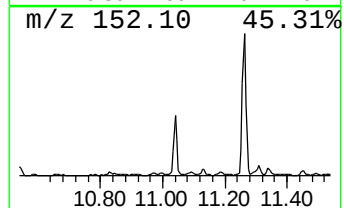
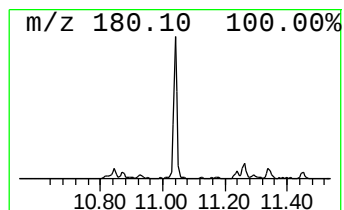
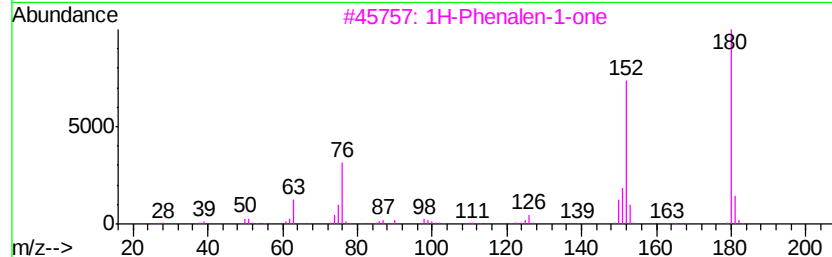
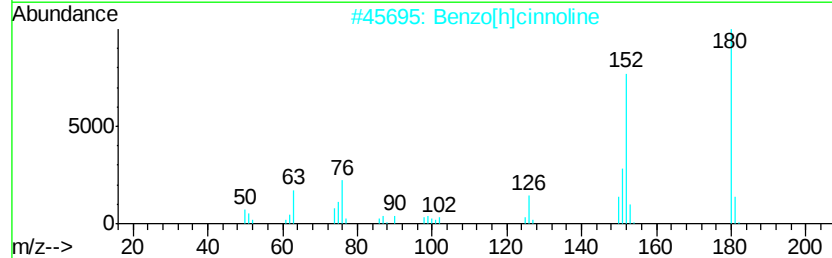
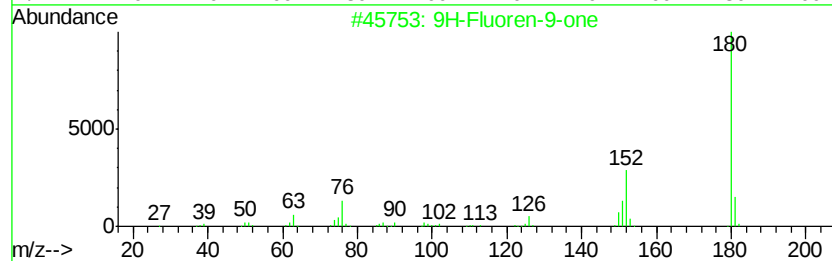
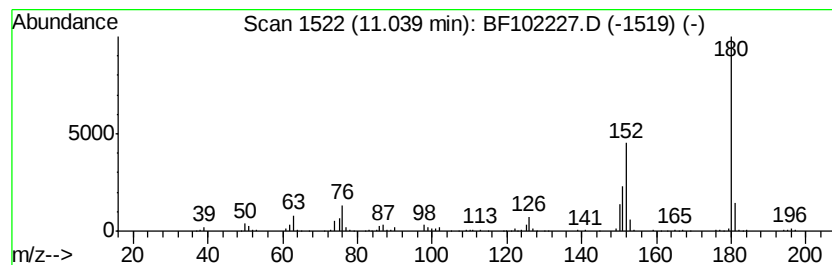
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

\*\*\*\*\*  
Peak Number 4 9H-Fluoren-9-one Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD          |     | R.T.    |             |      |
|-------|---------|--------|---------------------------|-----|---------|-------------|------|
| 11.04 | 4.18 ng | 270897 | Phenanthrene-d10          |     | 11.24   |             |      |
| Hit#  | of      | 5      | Tentative ID              | MW  | MolForm | CAS#        | Qual |
| 1     |         |        | 9H-Fluoren-9-one          | 180 | C13H8O  | 000486-25-9 | 94   |
| 2     |         |        | Benzo[h]cinnoline         | 180 | C12H8N2 | 000230-31-9 | 91   |
| 3     |         |        | 1H-Phenalen-1-one         | 180 | C13H8O  | 000548-39-0 | 50   |
| 4     |         |        | 2,3-Diazaphenanthrene     | 180 | C12H8N2 | 000229-72-1 | 45   |
| 5     |         |        | 1,1'-Biphenyl, 4-ethenyl- | 180 | C14H12  | 002350-89-2 | 40   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

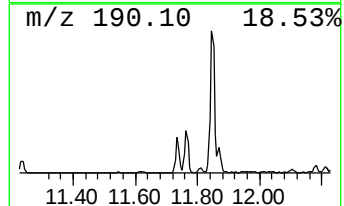
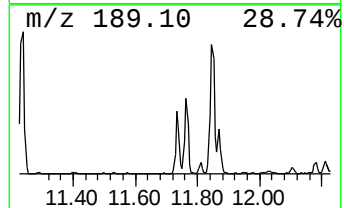
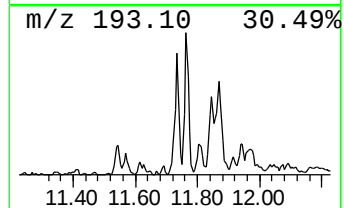
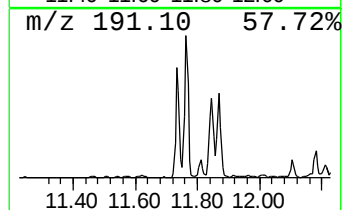
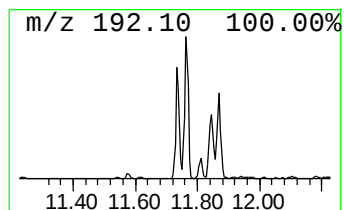
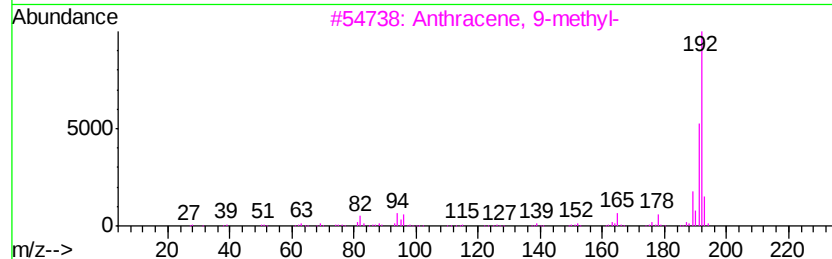
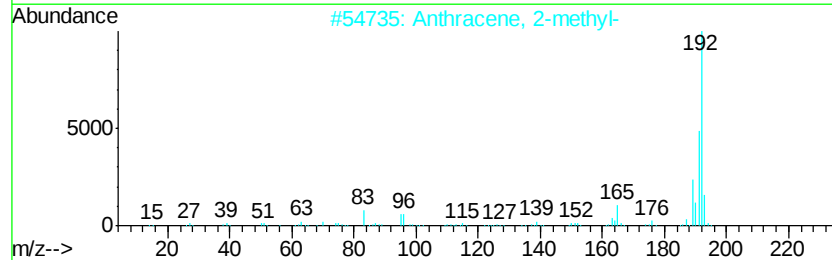
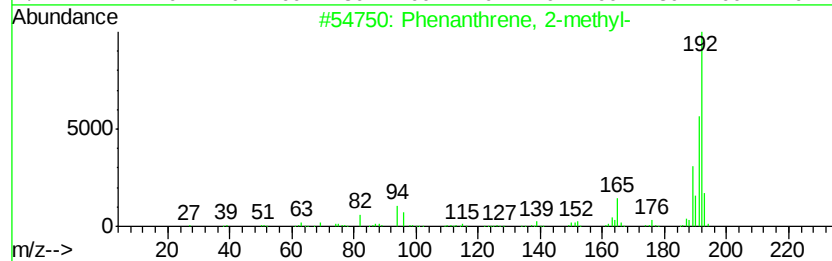
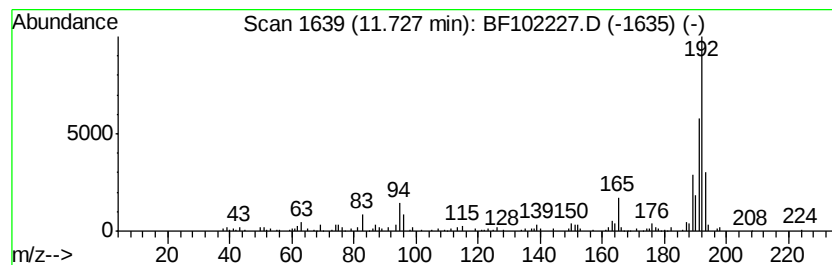
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Phenanthrene, 2-methyl- Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.73 | 5.86 ng | 379982 | Phenanthrene-d10 | 11.24 |

| 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       |   | Anthracene, 9-methyl-                 | 192 | C15H12  | 000779-02-2 | 95   |
| 4       |   | Phenanthrene, 1-methyl-               | 192 | C15H12  | 000832-69-9 | 95   |
| 5       |   | 1H-Cyclopropa[1]phenanthrene, 1a, ... | 192 | C15H12  | 000949-41-7 | 94   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

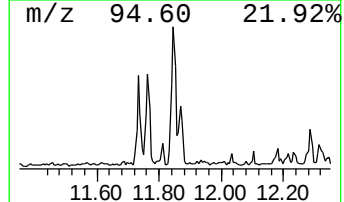
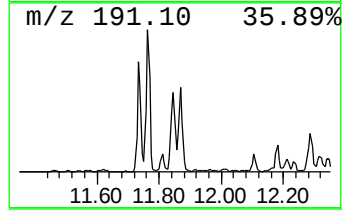
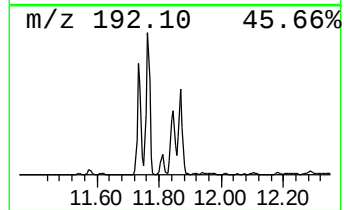
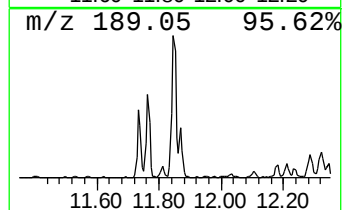
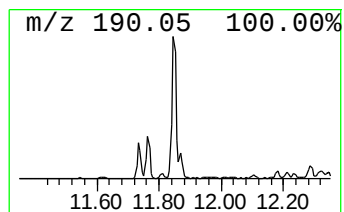
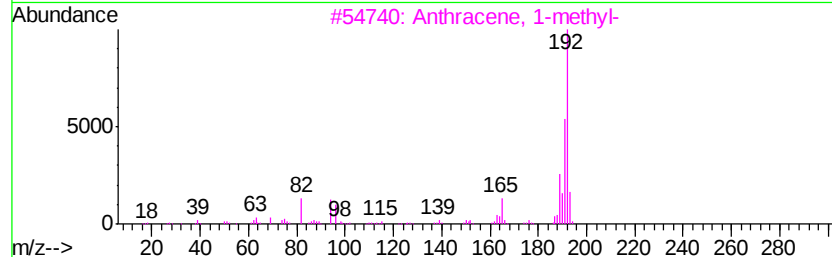
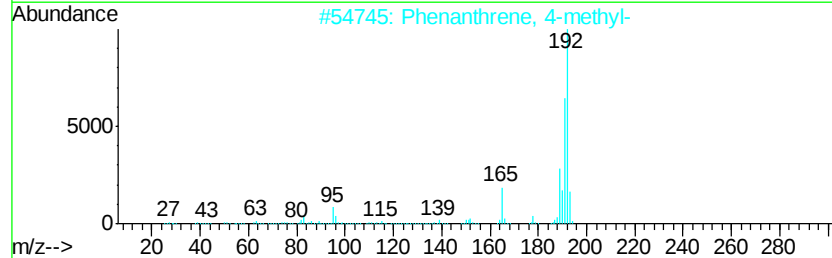
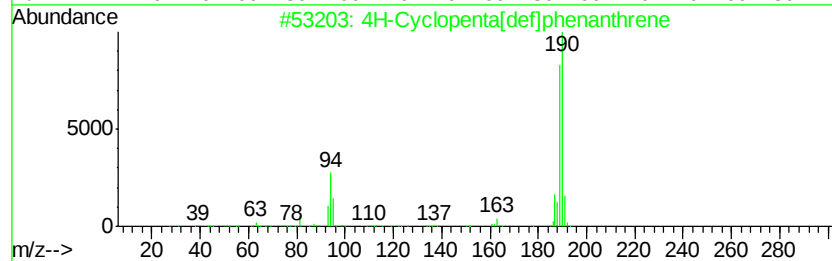
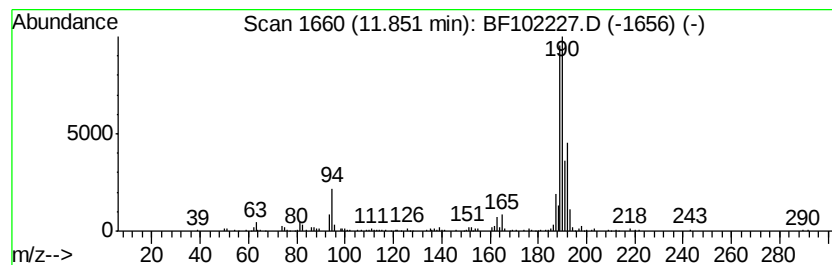
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.85 | 6.51 ng | 422238 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|-----------|--------------------------------|-----|---------|-------------|------|
| 1         | 4H-Cyclopenta[def]phenanthrene | 190 | C15H10  | 000203-64-5 | 93   |
| 2         | Phenanthrene, 4-methyl-        | 192 | C15H12  | 000832-64-4 | 80   |
| 3         | Anthracene, 1-methyl-          | 192 | C15H12  | 000610-48-0 | 60   |
| 4         | 6H-Cyclobuta[ik]phenanthrene   | 190 | C15H10  | 083469-43-6 | 49   |
| 5         | 1H-Indene, 2-phenyl-           | 192 | C15H12  | 004505-48-0 | 42   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

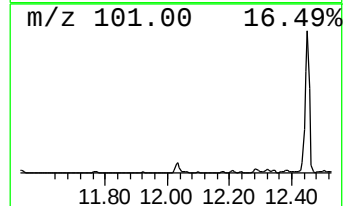
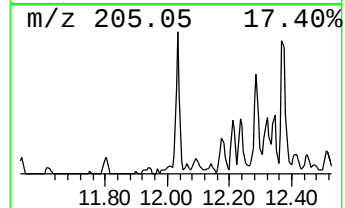
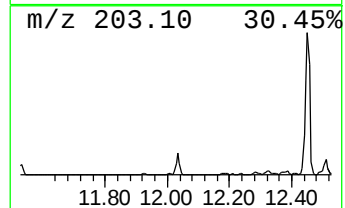
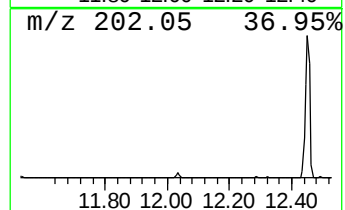
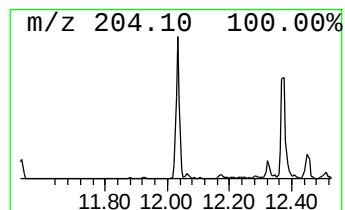
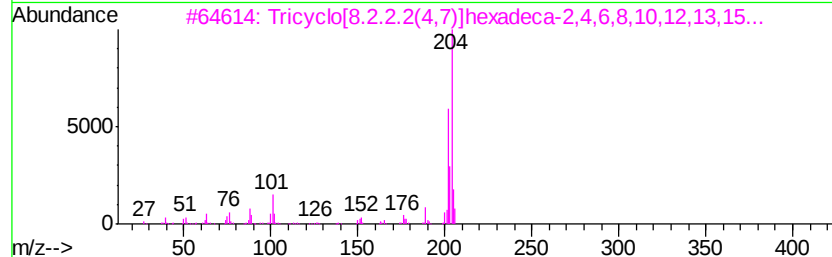
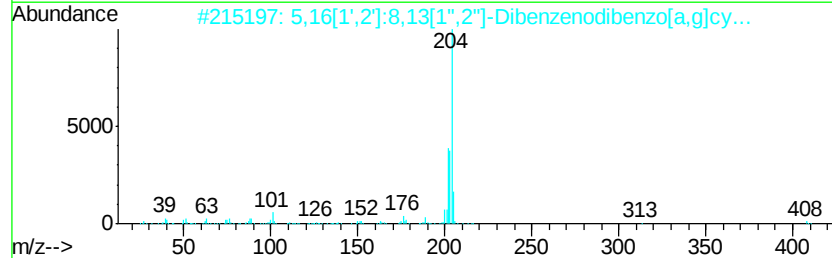
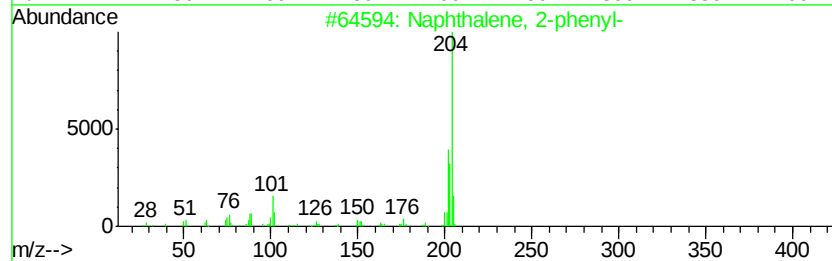
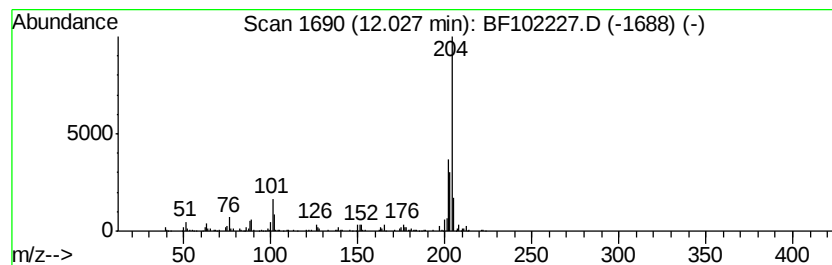
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Naphthalene, 2-phenyl- Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.03 | 4.19 ng | 271775 | Phenanthrene-d10 | 11.24 |

| 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    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2...   | 204 | C16H12    | 006572-60-7 | 81   |
| 4    |    | Naphthalene, 1-phenyl-                | 204 | C16H12    | 000605-02-7 | 64   |
| 5    |    | 9,10-Bis(bromomethyl)anthracene       | 362 | C16H12Br2 | 034373-96-1 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

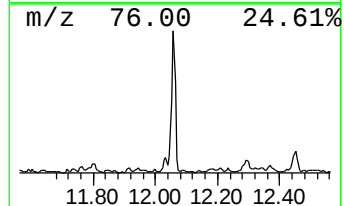
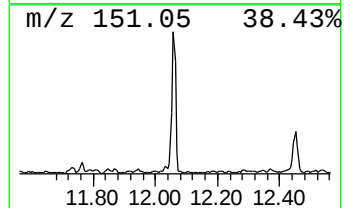
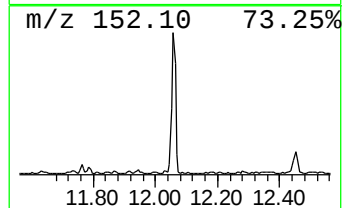
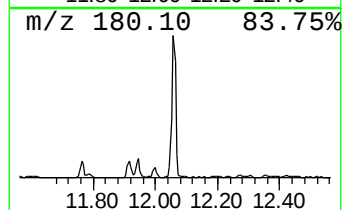
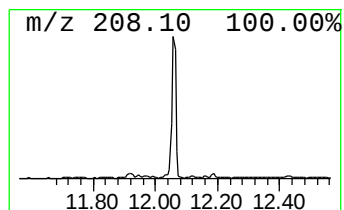
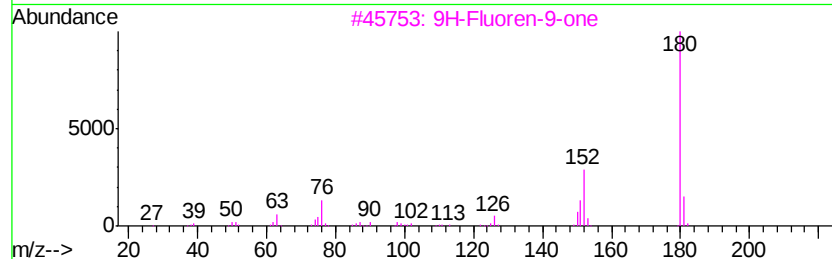
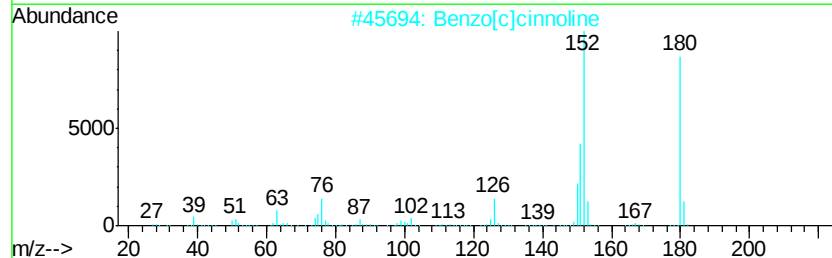
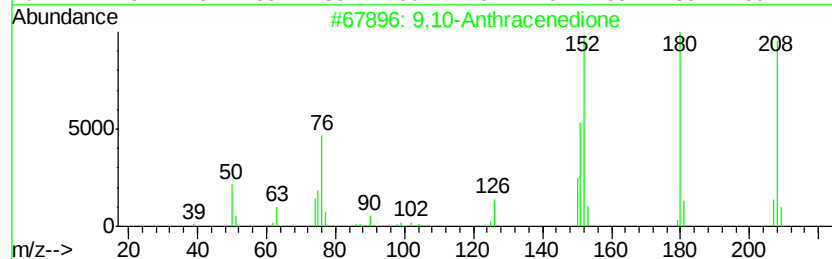
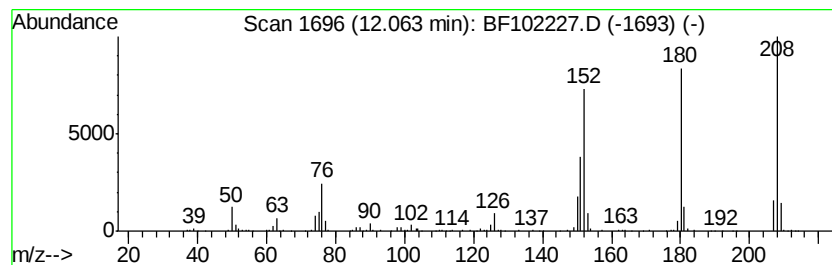
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 9,10-Anthracenedione Concentration Rank 4

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.06 | 9.31 ng | 603944 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 99   |
| 2    |    | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 96   |
| 3    |    | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 62   |
| 4    |    | 1H-Phenalen-1-one    | 180 | C13H8O  | 000548-39-0 | 60   |
| 5    |    | 1,4-Anthracenedione  | 208 | C14H8O2 | 000635-12-1 | 52   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

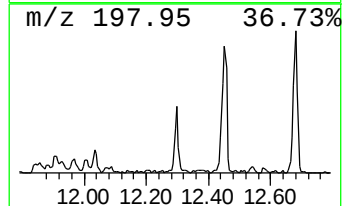
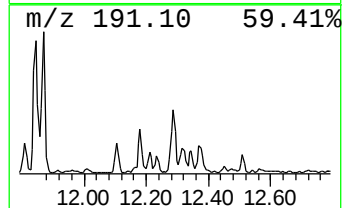
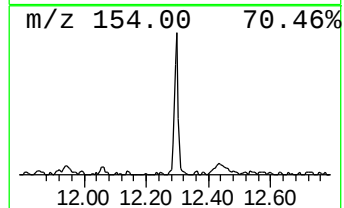
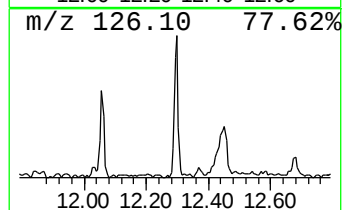
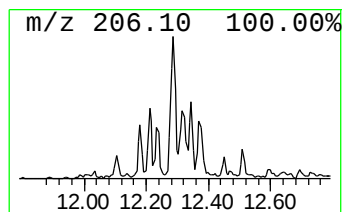
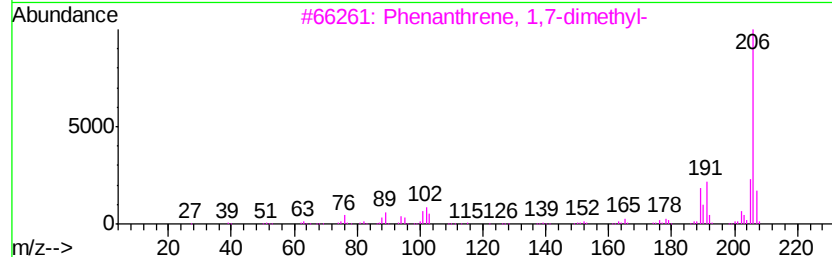
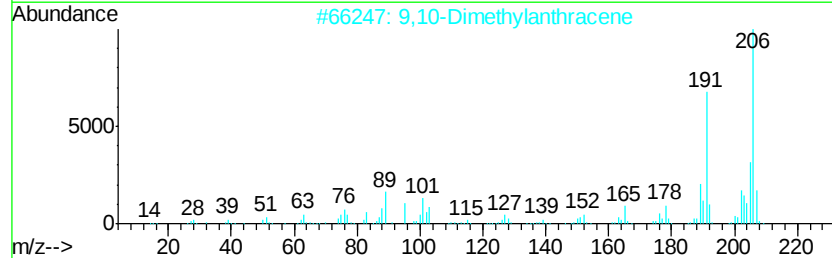
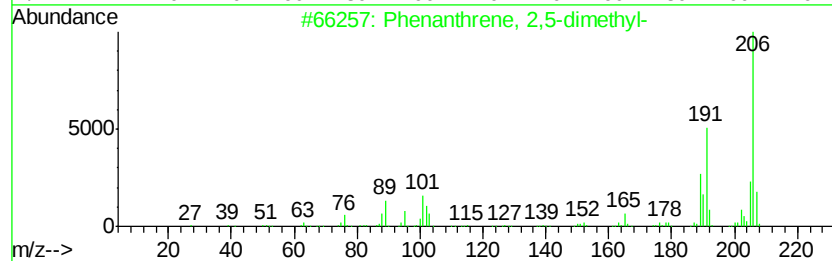
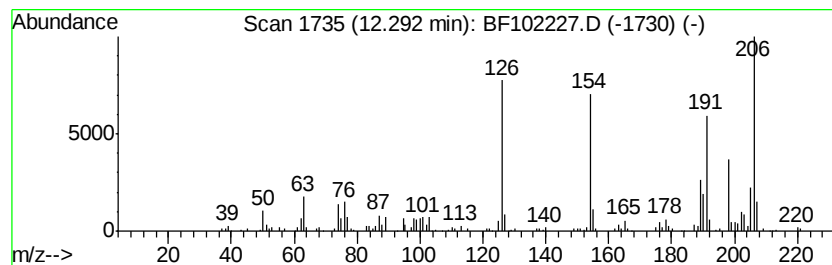
Instrument :  
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ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 Phenanthrene, 2,5-dimethyl- Concentration Rank 13

| R.T.      | EstConc                     | Area   | Relative to ISTD |             | R.T.  |
|-----------|-----------------------------|--------|------------------|-------------|-------|
| 12.29     | 4.47 ng                     | 290056 | Phenanthrene-d10 |             | 11.24 |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual  |
| 1         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 94    |
| 2         | 9,10-Dimethylantracene      | 206    | C16H14           | 000781-43-1 | 93    |
| 3         | Phenanthrene, 1,7-dimethyl- | 206    | C16H14           | 000483-87-4 | 81    |
| 4         | 3-Methyl-1-phenyl-1H-indene | 206    | C16H14           | 022360-63-0 | 76    |
| 5         | Phenanthrene, 2,7-dimethyl- | 206    | C16H14           | 001576-69-8 | 76    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
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Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

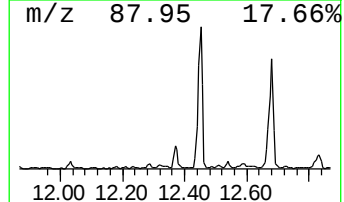
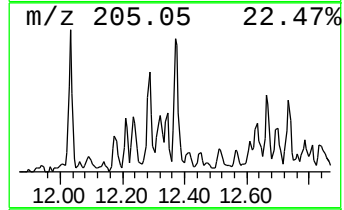
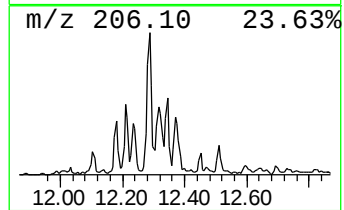
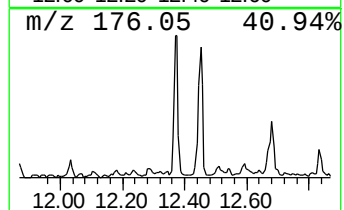
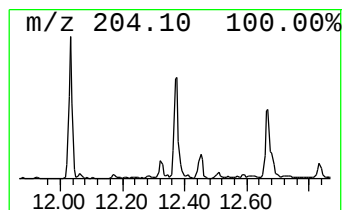
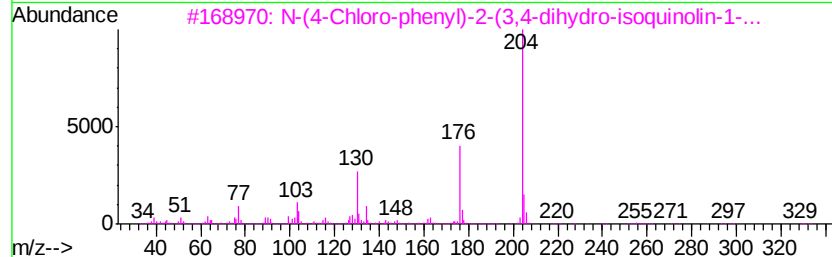
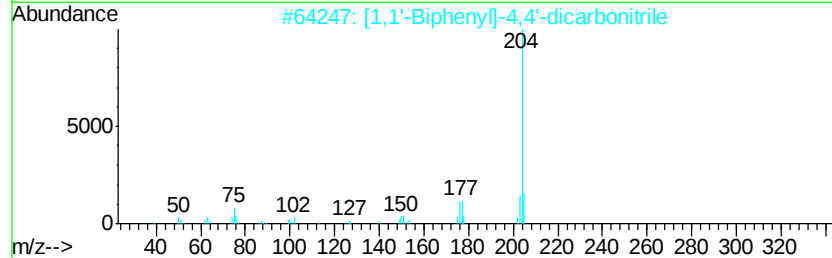
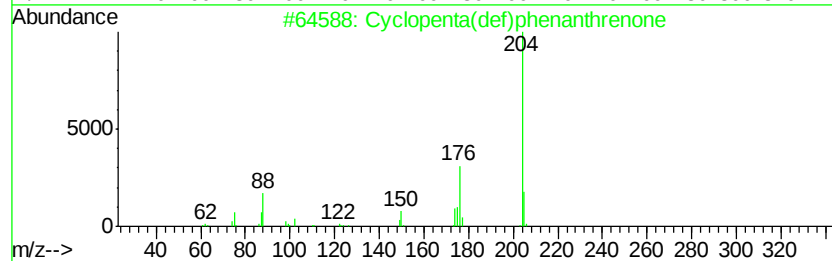
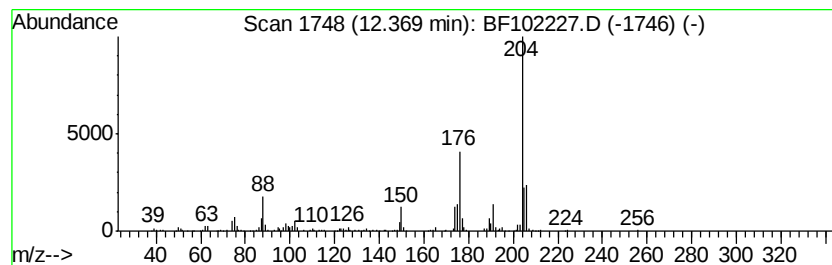
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 Cyclopenta(def)phenanthrenone Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.37 | 4.49 ng | 291226 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                          | MW  | MolForm      | CAS#         | Qual |
|------|----|---------------------------------------|-----|--------------|--------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone         | 204 | C15H8O       | 005737-13-3  | 94   |
| 2    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile   | 204 | C14H8N2      | 001591-30-6  | 49   |
| 3    |    | N-(4-Chloro-phenyl)-2-(3,4-dihydro... | 330 | C17H15ClN2OS | 1000296-34-3 | 40   |
| 4    |    | 1,1,4a-Trimethyl-5,6-dimethylene...   | 204 | C15H24       | 1000193-60-8 | 38   |
| 5    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0...   | 204 | C15H24       | 137235-51-9  | 38   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

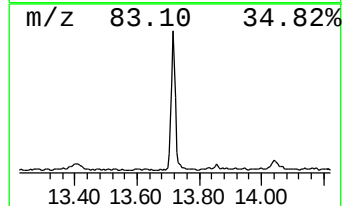
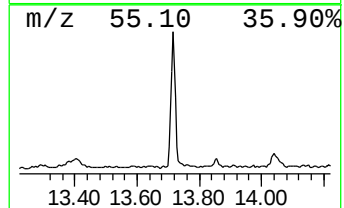
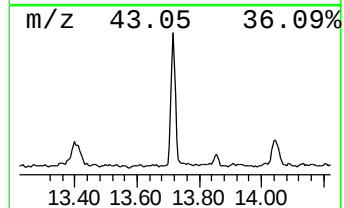
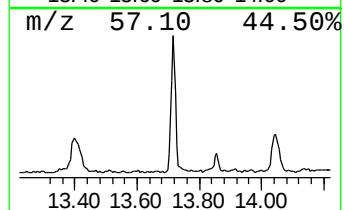
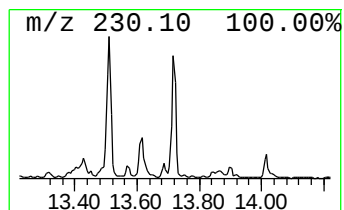
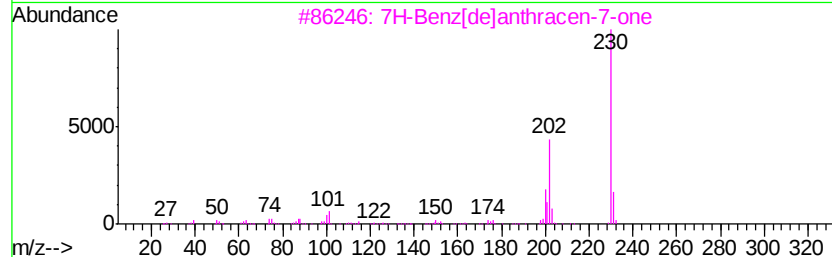
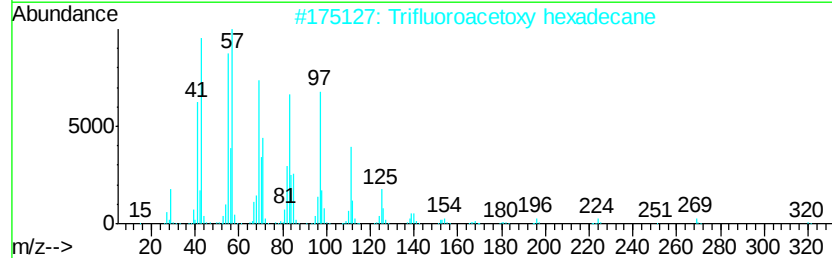
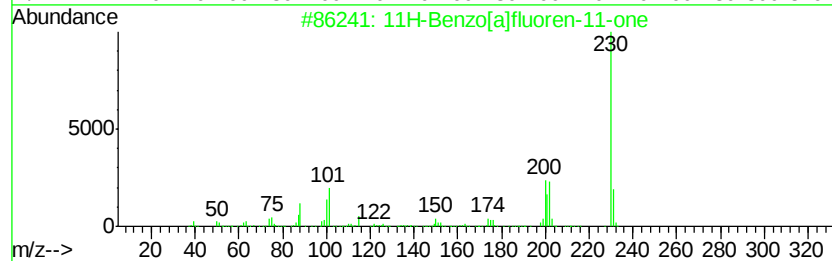
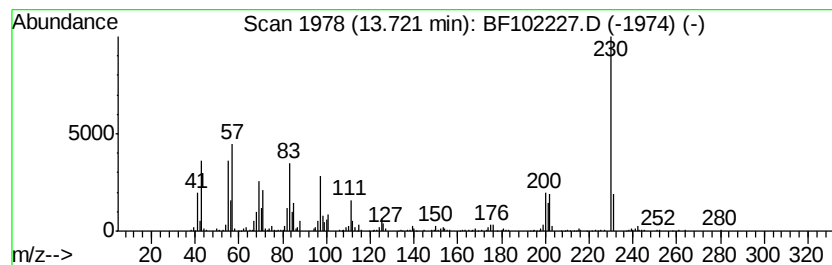
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 11H-Benzo[a]fluoren-11-one Concentration Rank 6

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.72 | 7.62 ng | 826498 | Chrysene-d12     | 13.87 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 11H-Benzo[a]fluoren-11-one          | 230 | C17H10O    | 000479-79-8  | 95   |
| 2    |    | Trifluoroacetoxy hexadecane         | 338 | C18H33F3O2 | 006222-03-3  | 81   |
| 3    |    | 7H-Benz[de]anthracen-7-one          | 230 | C17H10O    | 000082-05-3  | 64   |
| 4    |    | Heptadecyl trifluoroacetate         | 352 | C19H35F3O2 | 1000351-87-0 | 51   |
| 5    |    | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2 | 959218-78-1  | 50   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

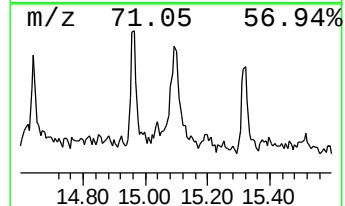
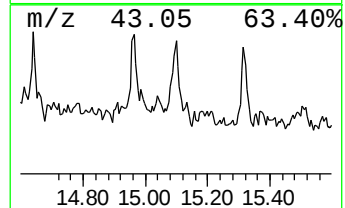
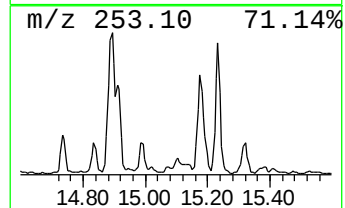
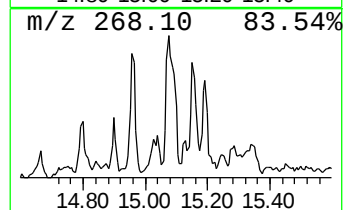
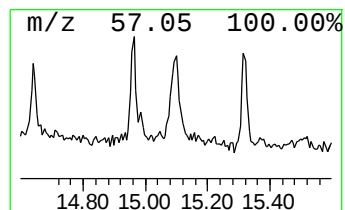
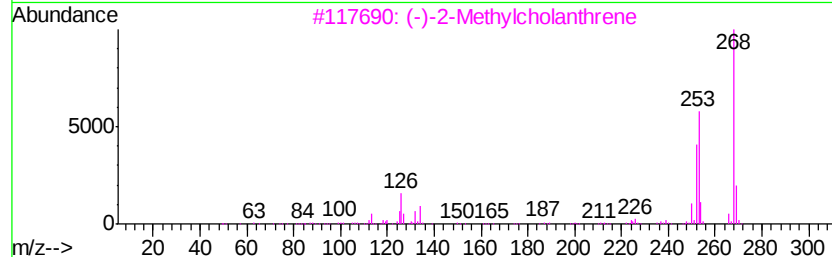
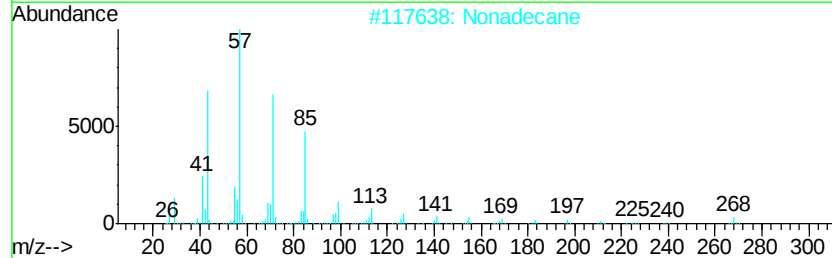
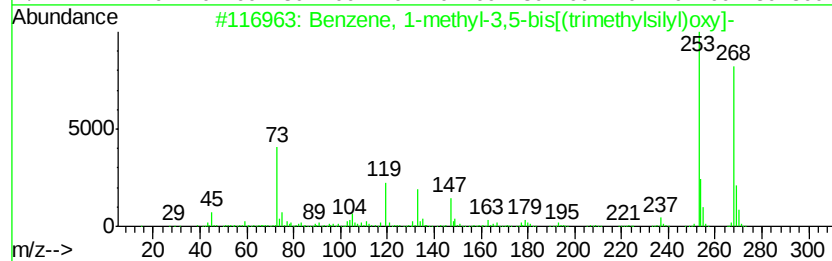
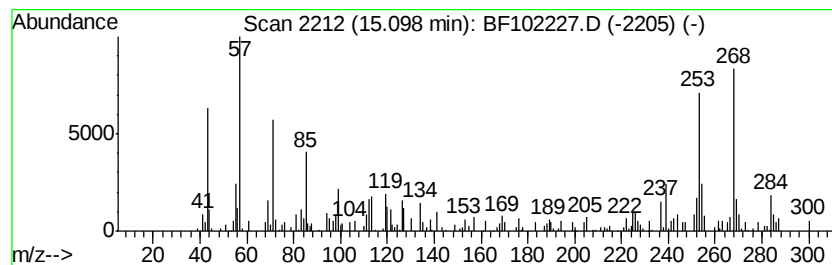
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 15 Benzene, 1-methyl-3,5-bis[(... Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.10 | 4.04 ng | 171344 | Perylene-d12     | 15.29 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-------------|--------------|------|
| 1    |    |   | Benzene, 1-methyl-3,5-bis[(trime... | 268 | C13H24O2Si2 | 089267-67-4  | 90   |
| 2    |    |   | Nonadecane                          | 268 | C19H40      | 000629-92-5  | 46   |
| 3    |    |   | (-)-2-Methylcholanthrene            | 268 | C21H16      | 1000126-56-2 | 43   |
| 4    |    |   | (-)-1-Methylcholanthrene            | 268 | C21H16      | 1000126-55-9 | 43   |
| 5    |    |   | (+)-2-Methylcholanthrene            | 268 | C21H16      | 1000126-56-1 | 43   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

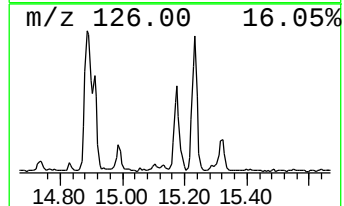
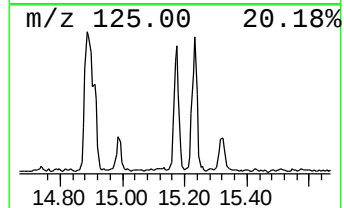
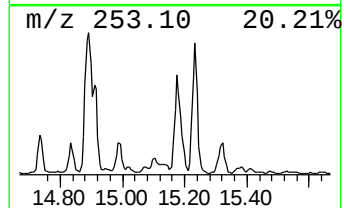
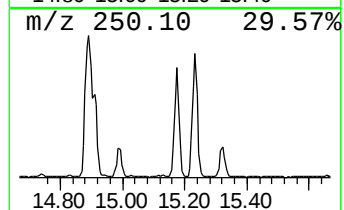
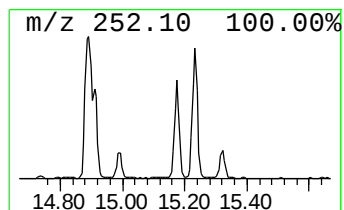
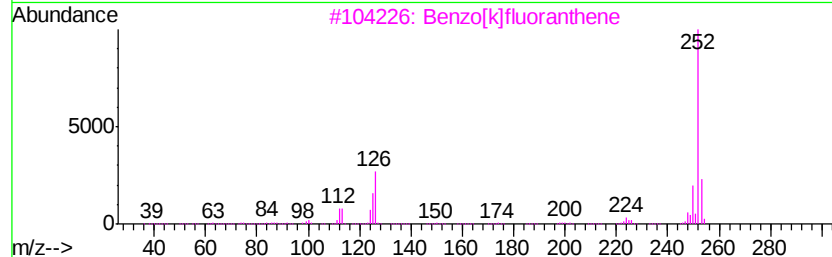
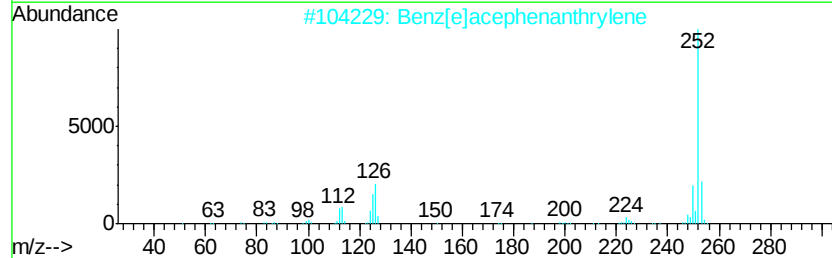
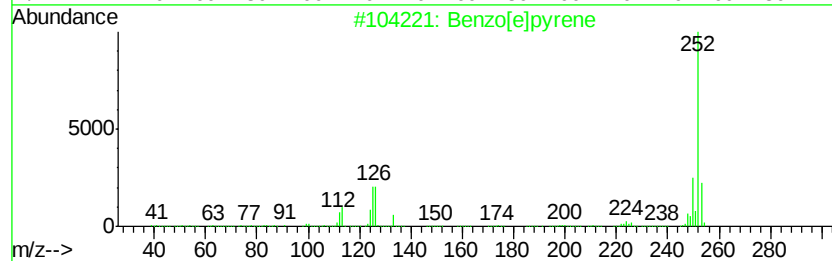
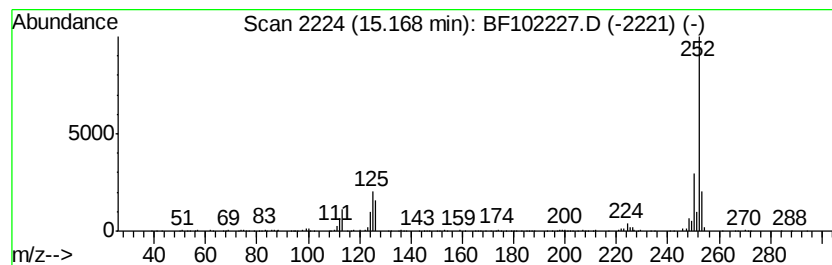
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Benzo[e]pyrene Concentration Rank 3

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 15.17 | 13.63 ng | 578676 | Perylene-d12     | 15.29 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 99   |
| 2    |    |   | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 94   |
| 3    |    |   | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    |   | Perylene                  | 252 | C20H12  | 000198-55-0 | 91   |
| 5    |    |   | Benzo[j]fluoranthene      | 252 | C20H12  | 000205-82-3 | 91   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

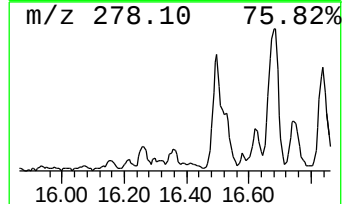
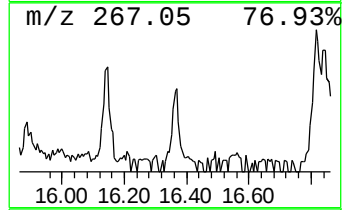
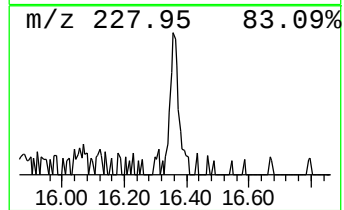
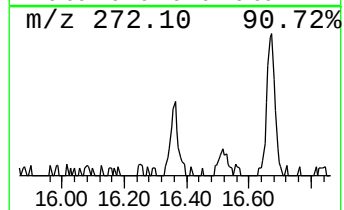
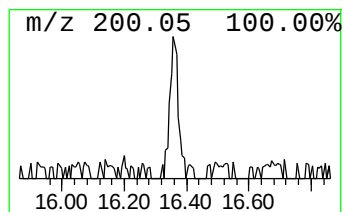
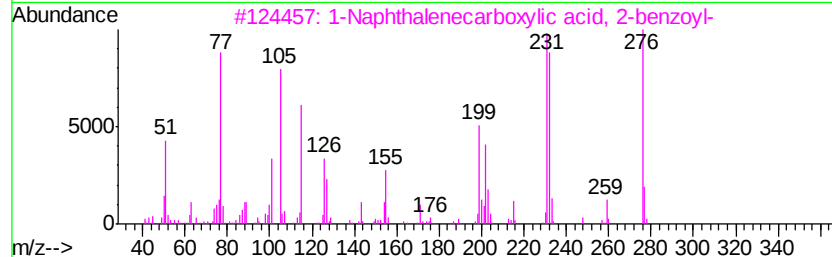
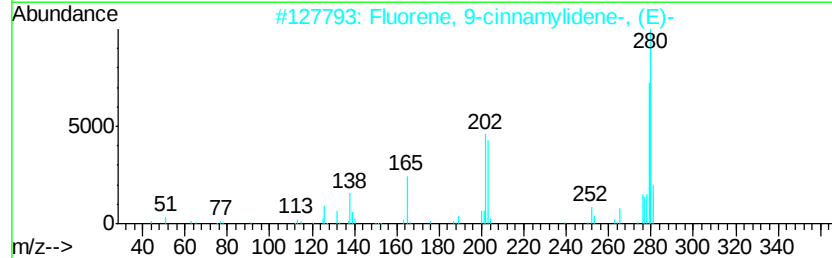
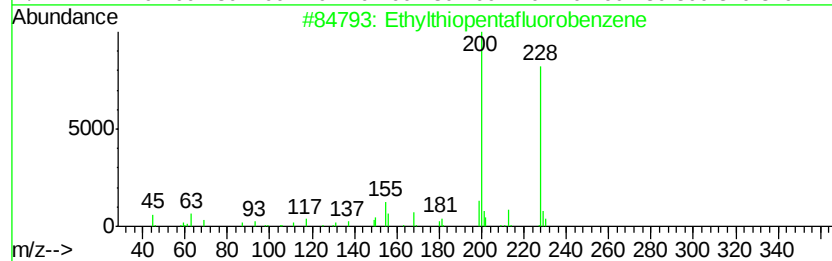
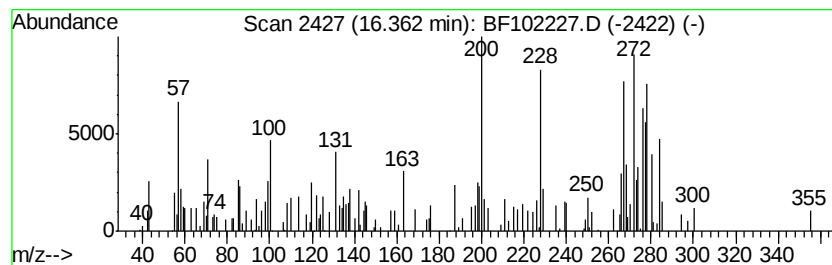
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 unknown16.36 Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 16.36 | 5.20 ng | 220686 | Perylene-d12     | 15.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Ethylthiopentafluorobenzene         | 228 | C8H5F5S    | 033288-21-0  | 14   |
| 2    |    | Fluorene, 9-cinnamylidene-, (E)-    | 280 | C22H16     | 032174-26-8  | 11   |
| 3    |    | 1-Naphthalenecarboxylic acid, 2-... | 276 | C18H12O3   | 038119-11-8  | 11   |
| 4    |    | 2-Oxaadamantane-6,6-ethylenedithio- | 228 | C11H16O2S2 | 1000188-89-7 | 10   |
| 5    |    | 1-(Phenylethynyl)-4-(trans-styryl)- | 280 | C22H16     | 173035-17-1  | 10   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

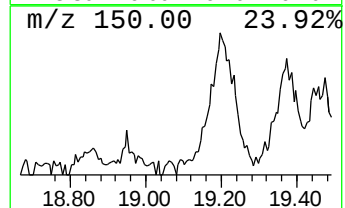
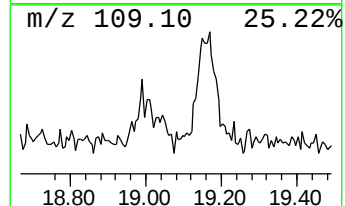
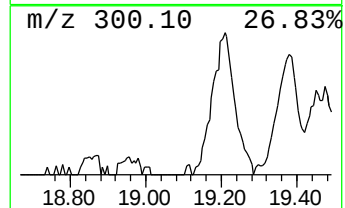
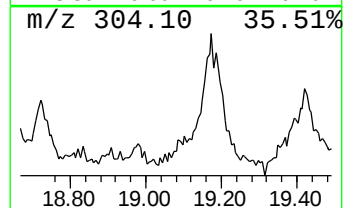
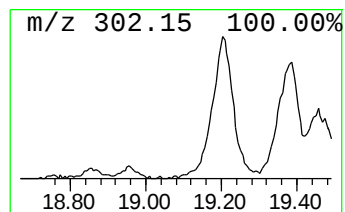
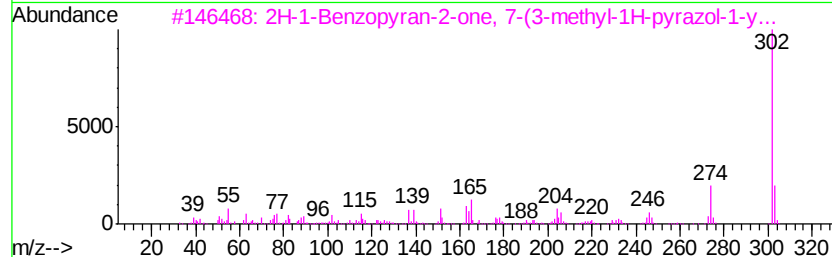
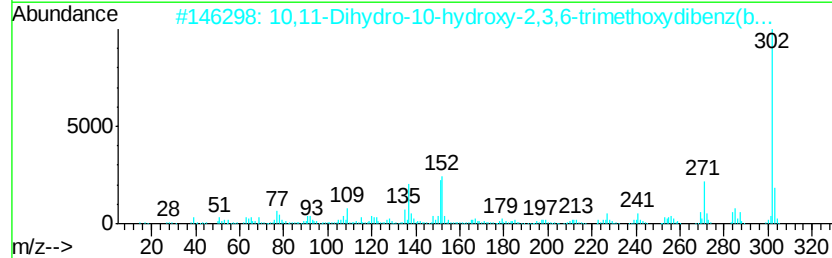
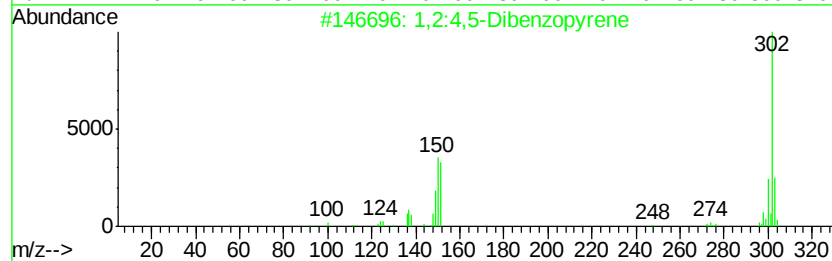
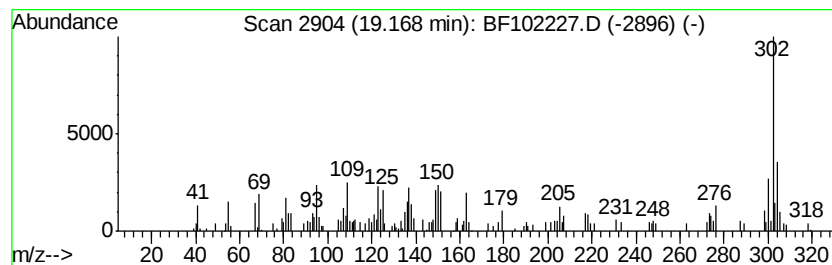
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 1,2:4,5-Dibenzopyrene Concentration Rank 9

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.17 | 5.67 ng | 240606 | Perylene-d12     | 15.29 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|------------|-------------|------|
| 1    |    |   | 1,2:4,5-Dibenzopyrene               | 302 | C24H14     | 000192-65-4 | 50   |
| 2    |    |   | 10,11-Dihydro-10-hydroxy-2,3,6-t... | 302 | C17H18O5   | 019172-35-1 | 46   |
| 3    |    |   | 2H-1-Benzopyran-2-one, 7-(3-meth... | 302 | C19H14N2O2 | 006025-18-9 | 45   |
| 4    |    |   | Morin                               | 302 | C15H10O7   | 000480-16-0 | 43   |
| 5    |    |   | Hematoxylin                         | 302 | C16H14O6   | 000517-28-2 | 38   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
Data File : BF102227.D  
Acq On : 19 Jan 2018 20:11  
Operator : SJ/JU  
Sample : J1189-05  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

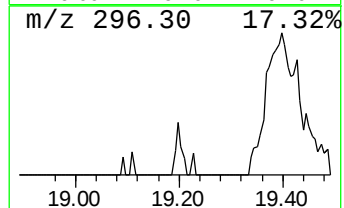
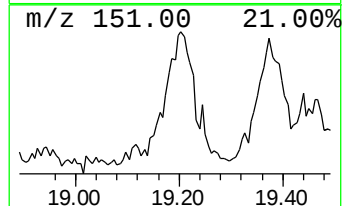
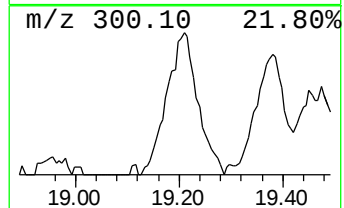
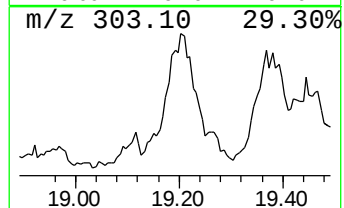
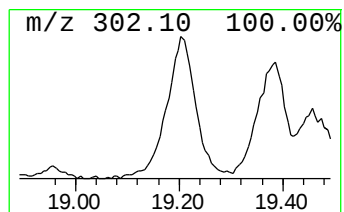
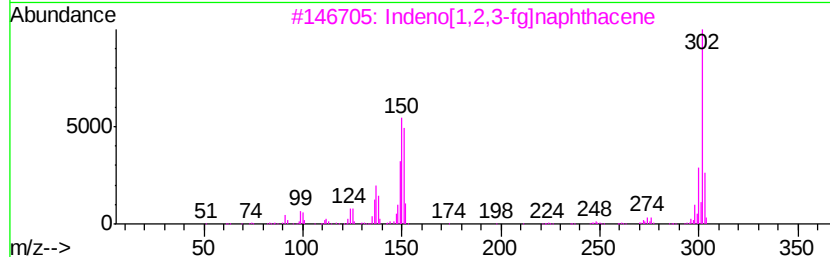
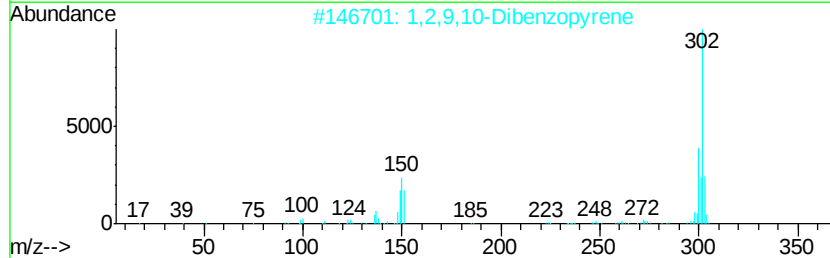
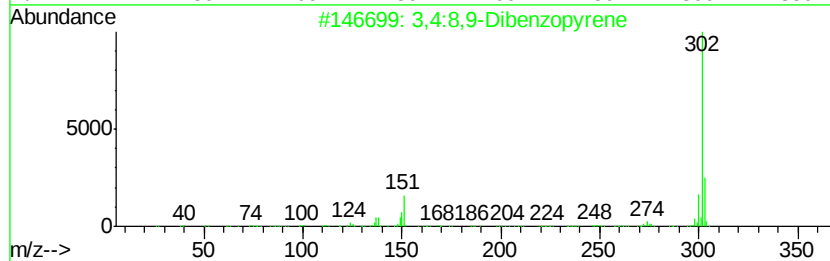
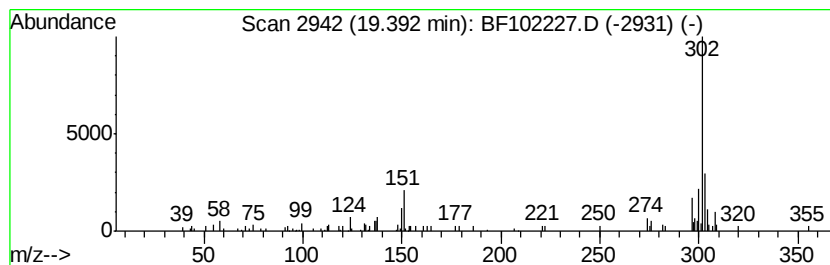
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 20 3,4:8,9-Dibenzopyrene Concentration Rank 14

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 19.39 | 4.45 ng | 189077 | Perylene-d12     | 15.29 |

| Hit# | of | 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|-----|---------|-------------|------|
| 1    |    |   | 3,4:8,9-Dibenzopyrene       | 302 | C24H14  | 000189-64-0 | 70   |
| 2    |    |   | 1,2,9,10-Dibenzopyrene      | 302 | C24H14  | 000191-30-0 | 64   |
| 3    |    |   | Indeno[1,2,3-fg]naphthacene | 302 | C24H14  | 000203-11-2 | 62   |
| 4    |    |   | 1,2:4,5-Dibenzopyrene       | 302 | C24H14  | 000192-65-4 | 62   |
| 5    |    |   | Dibenz(a,e)aceanthrylene    | 302 | C24H14  | 005385-75-1 | 62   |



Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF011918\  
 Data File : BF102227.D  
 Acq On : 19 Jan 2018 20:11  
 Operator : SJ/JU  
 Sample : J1189-05  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 2B-2

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF010918.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| 2-Pentanone, 4-hy... | 4.92  | 5.3     | ng    | 238777   | 1                     | 6.72  | 904651  | 20.0 |
| unknown6.49          | 6.49  | 68.8    | ng    | 3110370  | 1                     | 6.72  | 904651  | 20.0 |
| 9H-Fluoren-9-one     | 11.04 | 4.2     | ng    | 270897   | 4                     | 11.24 | 1297220 | 20.0 |
| Phenanthrene, 2-m... | 11.73 | 5.9     | ng    | 379982   | 4                     | 11.24 | 1297220 | 20.0 |
| 4H-Cyclopenta[def... | 11.85 | 6.5     | ng    | 422238   | 4                     | 11.24 | 1297220 | 20.0 |
| Naphthalene, 2-ph... | 12.03 | 4.2     | ng    | 271775   | 4                     | 11.24 | 1297220 | 20.0 |
| 9,10-Anthracenedione | 12.06 | 9.3     | ng    | 603944   | 4                     | 11.24 | 1297220 | 20.0 |
| Phenanthrene, 2,5... | 12.29 | 4.5     | ng    | 290056   | 4                     | 11.24 | 1297220 | 20.0 |
| Cyclopenta(def)ph... | 12.37 | 4.5     | ng    | 291226   | 4                     | 11.24 | 1297220 | 20.0 |
| 11H-Benzo[a]fluor... | 13.72 | 7.6     | ng    | 826498   | 5                     | 13.87 | 2168330 | 20.0 |
| Benzene, 1-methyl... | 15.10 | 4.0     | ng    | 171344   | 6                     | 15.29 | 849108  | 20.0 |
| Benzo[e]pyrene       | 15.17 | 13.6    | ng    | 578676   | 6                     | 15.29 | 849108  | 20.0 |
| unknown16.36         | 16.36 | 5.2     | ng    | 220686   | 6                     | 15.29 | 849108  | 20.0 |
| 1,2:4,5-Dibenzopy... | 19.17 | 5.7     | ng    | 240606   | 6                     | 15.29 | 849108  | 20.0 |
| 3,4:8,9-Dibenzopy... | 19.39 | 4.5     | ng    | 189077   | 6                     | 15.29 | 849108  | 20.0 |