

Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
 Data File : BF102202.D  
 Acq On : 18 Jan 2018 20:07  
 Operator : SJ/JU  
 Sample : J1187-10 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EPE-125-9(5-10)

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         | 4.910       | 476           | 480         | 488          | rVB      | 113880         | 125576        | 3.35%           | 0.211%        |
| 2         | 5.328       | 547           | 551         | 554          | rBV      | 1989183        | 1798744       | 48.02%          | 3.016%        |
| 3         | 6.357       | 721           | 726         | 738          | rBV      | 2078006        | 1885989       | 50.34%          | 3.162%        |
| 4         | 6.486       | 744           | 748         | 752          | rBV      | 2135211        | 1906995       | 50.91%          | 3.197%        |
| 5         | 6.722       | 784           | 788         | 791          | rBV      | 1145748        | 906778        | 24.21%          | 1.520%        |
| 6         | 6.875       | 810           | 814         | 817          | rBV      | 1765316        | 1421235       | 37.94%          | 2.383%        |
| 7         | 7.286       | 879           | 884         | 887          | rBV      | 1267480        | 1110722       | 29.65%          | 1.862%        |
| 8         | 8.004       | 998           | 1006        | 1008         | rBV      | 1513945        | 1221036       | 32.59%          | 2.047%        |
| 9         | 8.021       | 1008          | 1009        | 1012         | rVB      | 159875         | 105006        | 2.80%           | 0.176%        |
| 10        | 8.716       | 1124          | 1127        | 1130         | rVB      | 76643          | 56247         | 1.50%           | 0.094%        |
| 11        | 8.816       | 1140          | 1144        | 1148         | rVB      | 69368          | 60306         | 1.61%           | 0.101%        |
| 12        | 9.080       | 1185          | 1189        | 1192         | rBV      | 2115169        | 1793352       | 47.87%          | 3.007%        |
| 13        | 9.416       | 1242          | 1246        | 1248         | rBV      | 69389          | 70367         | 1.88%           | 0.118%        |
| 14        | 9.474       | 1252          | 1256        | 1259         | rVV      | 269152         | 223769        | 5.97%           | 0.375%        |
| 15        | 9.616       | 1277          | 1280        | 1285         | rBV      | 290556         | 227614        | 6.08%           | 0.382%        |
| 16        | 9.686       | 1290          | 1292        | 1297         | rVB      | 97488          | 73710         | 1.97%           | 0.124%        |
| 17        | 9.757       | 1297          | 1304        | 1307         | rBV      | 1374183        | 1230256       | 32.84%          | 2.063%        |
| 18        | 9.786       | 1307          | 1309        | 1313         | rVB      | 576547         | 429857        | 11.47%          | 0.721%        |
| 19        | 9.910       | 1325          | 1330        | 1334         | rBV3     | 58600          | 70597         | 1.88%           | 0.118%        |
| 20        | 9.957       | 1334          | 1338        | 1342         | rVV      | 215014         | 194131        | 5.18%           | 0.325%        |
| 21        | 10.157      | 1369          | 1372        | 1375         | rBV      | 75044          | 82399         | 2.20%           | 0.138%        |
| 22        | 10.186      | 1375          | 1377        | 1379         | rVB      | 99970          | 71534         | 1.91%           | 0.120%        |
| 23        | 10.298      | 1393          | 1396        | 1402         | rVB      | 356541         | 330125        | 8.81%           | 0.553%        |
| 24        | 10.457      | 1421          | 1423        | 1427         | rVB2     | 93375          | 84393         | 2.25%           | 0.141%        |
| 25        | 10.539      | 1432          | 1437        | 1441         | rBV      | 1084771        | 1023132       | 27.31%          | 1.715%        |
| 26        | 10.663      | 1449          | 1458        | 1462         | rBV3     | 136977         | 193025        | 5.15%           | 0.324%        |
| 27        | 10.851      | 1483          | 1490        | 1492         | rBV3     | 80924          | 127601        | 3.41%           | 0.214%        |
| 28        | 10.874      | 1492          | 1494        | 1497         | rVV2     | 59775          | 59748         | 1.59%           | 0.100%        |
| 29        | 10.974      | 1507          | 1511        | 1513         | rVV3     | 53763          | 70163         | 1.87%           | 0.118%        |
| 30        | 10.998      | 1513          | 1515        | 1520         | rVV2     | 72347          | 79410         | 2.12%           | 0.133%        |
| 31        | 11.045      | 1520          | 1523        | 1526         | rVB      | 123833         | 110540        | 2.95%           | 0.185%        |
| 32        | 11.104      | 1527          | 1533        | 1536         | rBV4     | 82920          | 163333        | 4.36%           | 0.274%        |
| 33        | 11.133      | 1536          | 1538        | 1544         | rVB      | 194024         | 177437        | 4.74%           | 0.297%        |
| 34        | 11.239      | 1552          | 1556        | 1558         | rBV      | 1080954        | 1009395       | 26.94%          | 1.692%        |

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 EPE-125-9(5-10)

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 | 11.268 | 1558 | 1561 | 1564 | rVV  | 2683379 | 2327593 | 62.13%  | 3.902% |
| 36 | 11.315 | 1564 | 1569 | 1572 | rVV  | 913031  | 751595  | 20.06%  | 1.260% |
| 37 | 11.345 | 1572 | 1574 | 1578 | rVB  | 117225  | 106567  | 2.84%   | 0.179% |
| 38 | 11.468 | 1589 | 1595 | 1598 | rBV2 | 354785  | 364326  | 9.73%   | 0.611% |
| 39 | 11.533 | 1603 | 1606 | 1609 | rVV2 | 120418  | 99502   | 2.66%   | 0.167% |
| 40 | 11.568 | 1609 | 1612 | 1616 | rVV3 | 93078   | 94980   | 2.54%   | 0.159% |
| 41 | 11.739 | 1638 | 1641 | 1643 | rVV  | 357476  | 309849  | 8.27%   | 0.519% |
| 42 | 11.768 | 1643 | 1646 | 1650 | rVB  | 555576  | 441554  | 11.79%  | 0.740% |
| 43 | 11.815 | 1650 | 1654 | 1656 | rBV  | 216254  | 198306  | 5.29%   | 0.332% |
| 44 | 11.851 | 1656 | 1660 | 1662 | rVV  | 703221  | 684730  | 18.28%  | 1.148% |
| 45 | 11.874 | 1662 | 1664 | 1668 | rVB  | 264917  | 210609  | 5.62%   | 0.353% |
| 46 | 11.968 | 1678 | 1680 | 1683 | rVB3 | 63823   | 57623   | 1.54%   | 0.097% |
| 47 | 12.015 | 1683 | 1688 | 1689 | rBV4 | 45023   | 71772   | 1.92%   | 0.120% |
| 48 | 12.039 | 1689 | 1692 | 1695 | rVV2 | 761977  | 836940  | 22.34%  | 1.403% |
| 49 | 12.062 | 1695 | 1696 | 1699 | rVB2 | 205690  | 103687  | 2.77%   | 0.174% |
| 50 | 12.157 | 1708 | 1712 | 1715 | rBV  | 2841205 | 2728379 | 72.83%  | 4.574% |
| 51 | 12.180 | 1715 | 1716 | 1719 | rVV  | 94696   | 76322   | 2.04%   | 0.128% |
| 52 | 12.215 | 1719 | 1722 | 1724 | rVV  | 90179   | 71932   | 1.92%   | 0.121% |
| 53 | 12.239 | 1724 | 1726 | 1729 | rVB  | 83727   | 69828   | 1.86%   | 0.117% |
| 54 | 12.286 | 1731 | 1734 | 1737 | rBV  | 234669  | 269629  | 7.20%   | 0.452% |
| 55 | 12.327 | 1738 | 1741 | 1743 | rVV  | 161248  | 165138  | 4.41%   | 0.277% |
| 56 | 12.374 | 1746 | 1749 | 1754 | rBV2 | 218359  | 248755  | 6.64%   | 0.417% |
| 57 | 12.457 | 1758 | 1763 | 1766 | rBV  | 3092716 | 3209215 | 85.67%  | 5.380% |
| 58 | 12.515 | 1766 | 1773 | 1775 | rVB2 | 65133   | 92267   | 2.46%   | 0.155% |
| 59 | 12.545 | 1775 | 1778 | 1781 | rVB  | 116526  | 93586   | 2.50%   | 0.157% |
| 60 | 12.598 | 1781 | 1787 | 1791 | rBV3 | 137292  | 266540  | 7.12%   | 0.447% |
| 61 | 12.686 | 1795 | 1802 | 1807 | rBV  | 3016586 | 3746133 | 100.00% | 6.280% |
| 62 | 12.727 | 1807 | 1809 | 1814 | rVB2 | 182572  | 209862  | 5.60%   | 0.352% |
| 63 | 12.798 | 1818 | 1821 | 1822 | rBV  | 194108  | 167091  | 4.46%   | 0.280% |
| 64 | 12.821 | 1822 | 1825 | 1832 | rVB2 | 1279568 | 1349719 | 36.03%  | 2.263% |
| 65 | 12.892 | 1833 | 1837 | 1841 | rBV3 | 251102  | 414780  | 11.07%  | 0.695% |
| 66 | 12.927 | 1841 | 1843 | 1846 | rVB  | 85665   | 63296   | 1.69%   | 0.106% |
| 67 | 12.980 | 1849 | 1852 | 1854 | rBV2 | 202216  | 245052  | 6.54%   | 0.411% |
| 68 | 13.004 | 1854 | 1856 | 1859 | rVB  | 537200  | 500025  | 13.35%  | 0.838% |
| 69 | 13.074 | 1865 | 1868 | 1870 | rVB  | 463556  | 369679  | 9.87%   | 0.620% |
| 70 | 13.109 | 1870 | 1874 | 1876 | rBV2 | 454829  | 443556  | 11.84%  | 0.744% |
| 71 | 13.133 | 1876 | 1878 | 1882 | rVB  | 150471  | 143213  | 3.82%   | 0.240% |

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Instrument :  
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 ClientSampleId :  
 EPE-125-9(5-10)

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

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 13.168 | 1882 | 1884 | 1886 | rBV  | 77891   | 57414   | 1.53%  | 0.096% |
| 73  | 13.204 | 1886 | 1890 | 1892 | rBV  | 291277  | 277148  | 7.40%  | 0.465% |
| 74  | 13.233 | 1892 | 1895 | 1898 | rBV  | 266431  | 218508  | 5.83%  | 0.366% |
| 75  | 13.304 | 1905 | 1907 | 1913 | rVB5 | 149741  | 210909  | 5.63%  | 0.354% |
| 76  | 13.486 | 1936 | 1938 | 1939 | rBV2 | 74699   | 65539   | 1.75%  | 0.110% |
| 77  | 13.509 | 1940 | 1942 | 1947 | rVB  | 235537  | 278133  | 7.42%  | 0.466% |
| 78  | 13.621 | 1957 | 1961 | 1964 | rBV2 | 302928  | 399217  | 10.66% | 0.669% |
| 79  | 13.651 | 1964 | 1966 | 1968 | rVV  | 321049  | 271649  | 7.25%  | 0.455% |
| 80  | 13.674 | 1968 | 1970 | 1975 | rVV2 | 255386  | 373920  | 9.98%  | 0.627% |
| 81  | 13.721 | 1975 | 1978 | 1982 | rVB  | 353742  | 334881  | 8.94%  | 0.561% |
| 82  | 13.809 | 1989 | 1993 | 1997 | rVB  | 2106690 | 1781140 | 47.55% | 2.986% |
| 83  | 13.874 | 1997 | 2004 | 2007 | rBV2 | 1859868 | 3107100 | 82.94% | 5.209% |
| 84  | 13.903 | 2007 | 2009 | 2014 | rVB  | 1467457 | 1458427 | 38.93% | 2.445% |
| 85  | 13.980 | 2020 | 2022 | 2025 | rVB  | 397582  | 291900  | 7.79%  | 0.489% |
| 86  | 14.262 | 2067 | 2070 | 2072 | rVB  | 356043  | 330717  | 8.83%  | 0.554% |
| 87  | 14.292 | 2073 | 2075 | 2078 | rVB  | 183958  | 135817  | 3.63%  | 0.228% |
| 88  | 14.356 | 2083 | 2086 | 2088 | rVV2 | 225514  | 242580  | 6.48%  | 0.407% |
| 89  | 14.386 | 2088 | 2091 | 2093 | rVV2 | 251628  | 280116  | 7.48%  | 0.470% |
| 90  | 14.403 | 2093 | 2094 | 2098 | rVB2 | 238871  | 178308  | 4.76%  | 0.299% |
| 91  | 14.562 | 2119 | 2121 | 2123 | rBV2 | 111412  | 95595   | 2.55%  | 0.160% |
| 92  | 14.898 | 2173 | 2178 | 2181 | rBV  | 1309175 | 2168115 | 57.88% | 3.635% |
| 93  | 14.998 | 2191 | 2195 | 2198 | rVB  | 318669  | 337768  | 9.02%  | 0.566% |
| 94  | 15.186 | 2222 | 2227 | 2232 | rVB  | 873289  | 1154308 | 30.81% | 1.935% |
| 95  | 15.245 | 2232 | 2237 | 2242 | rBV  | 1319634 | 1527331 | 40.77% | 2.561% |
| 96  | 15.297 | 2242 | 2246 | 2249 | rBV  | 514619  | 700823  | 18.71% | 1.175% |
| 97  | 15.327 | 2249 | 2251 | 2257 | rVB2 | 415001  | 515908  | 13.77% | 0.865% |
| 98  | 16.686 | 2476 | 2482 | 2489 | rVB2 | 524877  | 975320  | 26.04% | 1.635% |
| 99  | 17.109 | 2547 | 2554 | 2567 | rVB  | 396689  | 846416  | 22.59% | 1.419% |
| 100 | 19.180 | 2901 | 2906 | 2926 | rVB7 | 201216  | 935465  | 24.97% | 1.568% |

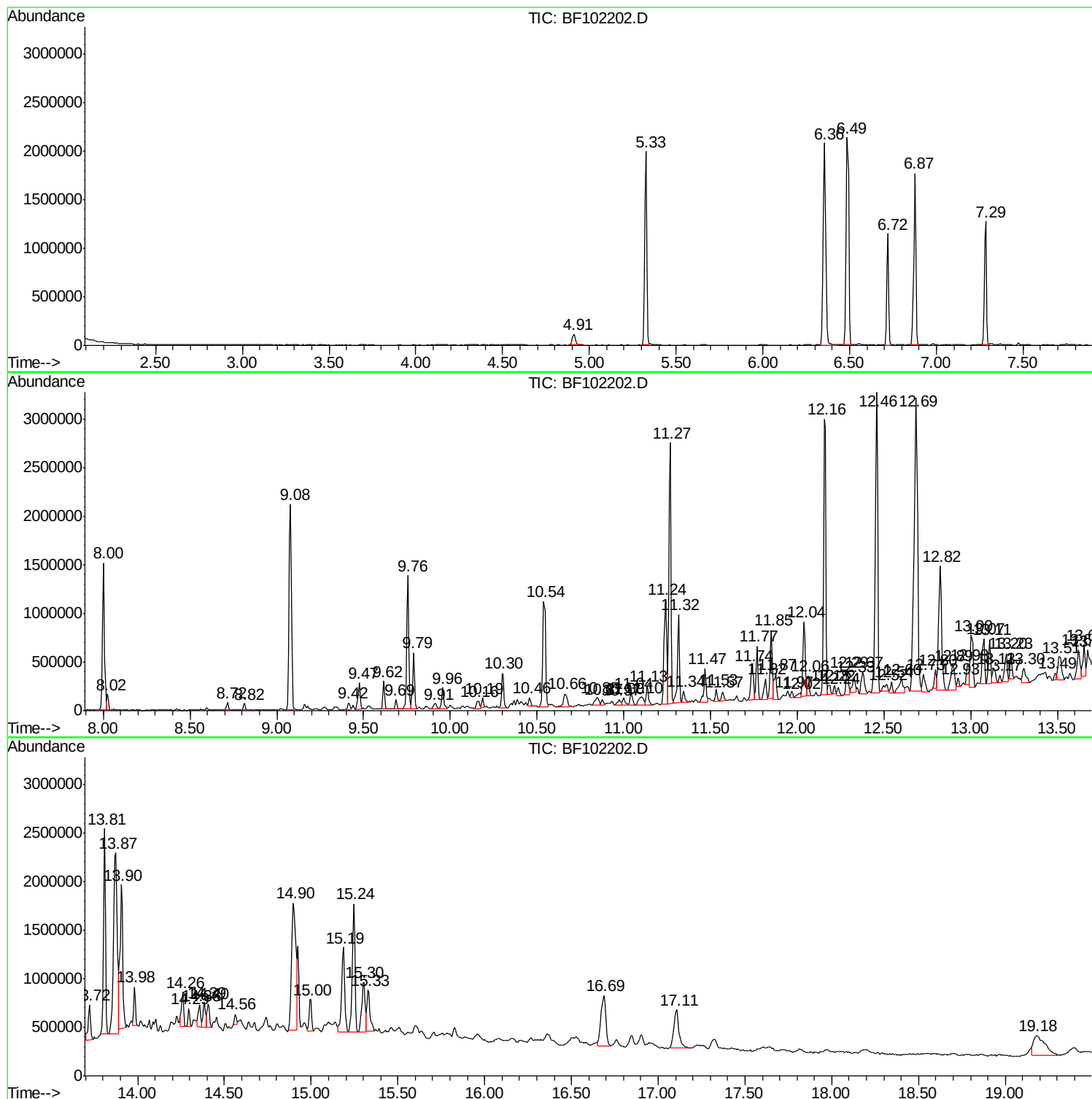
Sum of corrected areas: 59648624

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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



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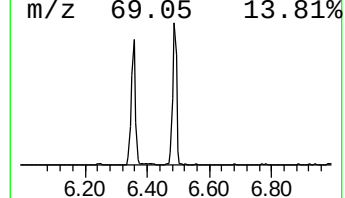
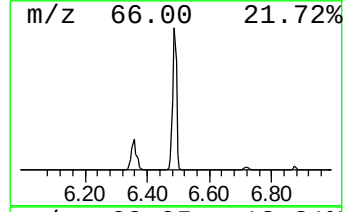
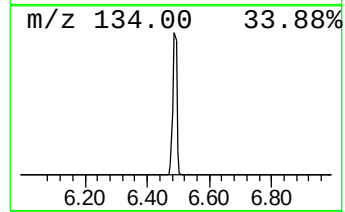
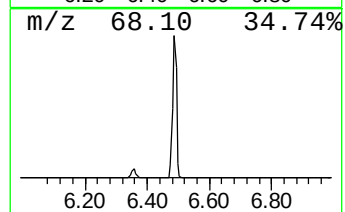
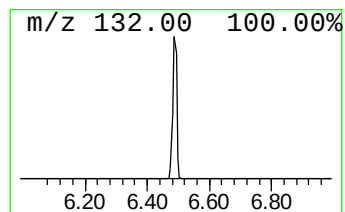
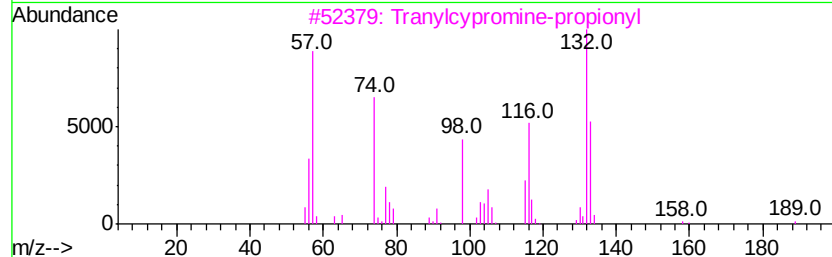
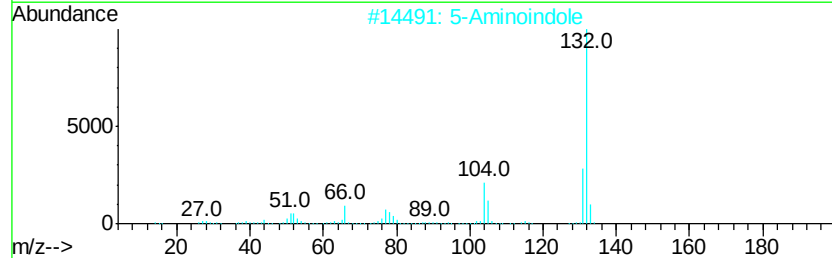
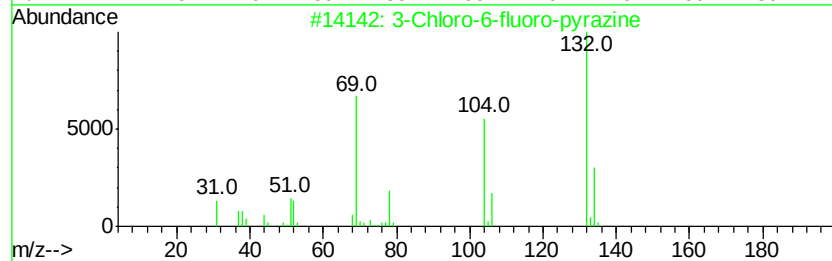
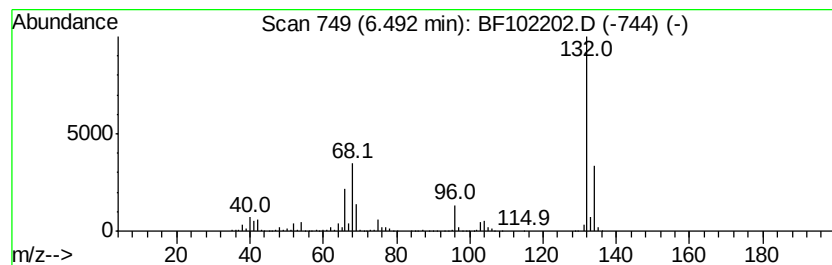
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.49 | 42.06 ng | 1907000 | 1,4-Dichlorobenzene-d4 | 6.72 |

| Hit# | of                             | Tentative ID             | MW  | MolForm   | CAS#         | Qual |
|------|--------------------------------|--------------------------|-----|-----------|--------------|------|
| 1    | 3                              | Chloro-6-fluoro-pyrazine | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    | 5                              | Aminoindole              | 132 | C8H8N2    | 005192-03-0  | 12   |
| 3    | Tranvlcy                       | promine-propionyl        | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    | 4-Chloro-2-fluoro-pyrimidine   |                          | 132 | C4H2ClFN2 | 051422-00-5  | 9    |
| 5    | 4-Methylpyrrolo[1,2-a]pyrazine |                          | 132 | C8H8N2    | 064608-60-2  | 9    |



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

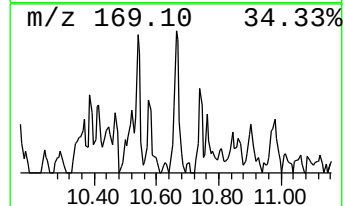
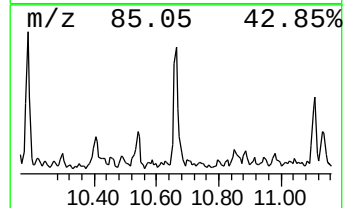
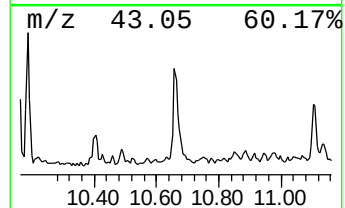
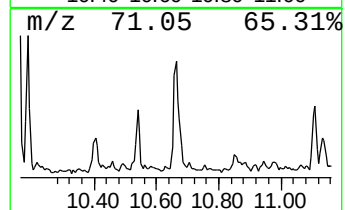
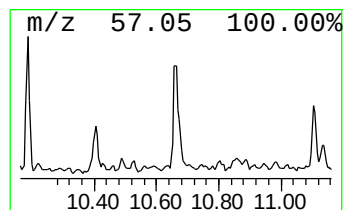
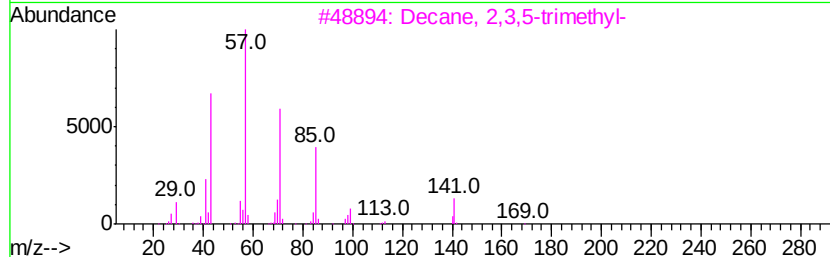
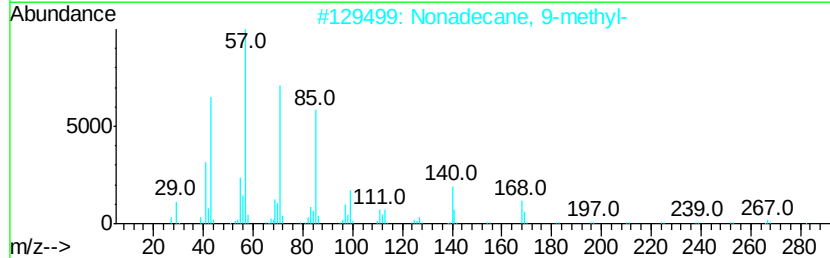
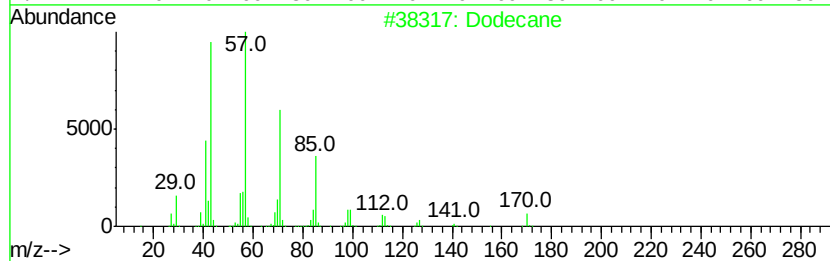
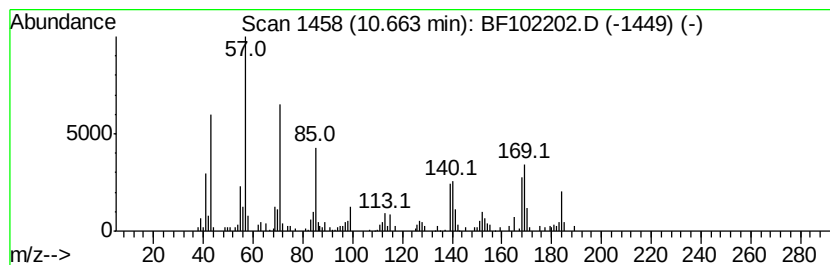
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 unknown10.66 Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 10.66 | 3.82 ng | 193025 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID             | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------|-----|---------|-------------|------|
| 1    | 5  | Dodecane                 | 170 | C12H26  | 000112-40-3 | 46   |
| 2    |    | Nonadecane, 9-methyl-    | 282 | C20H42  | 013287-24-6 | 43   |
| 3    |    | Decane, 2,3,5-trimethyl- | 184 | C13H28  | 062238-11-3 | 38   |
| 4    |    | Heneicosane              | 296 | C21H44  | 000629-94-7 | 38   |
| 5    |    | Tridecane, 1-iodo-       | 310 | C13H27I | 035599-77-0 | 38   |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

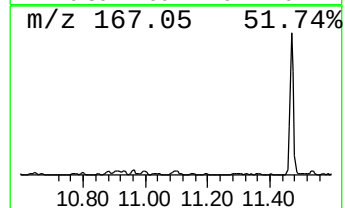
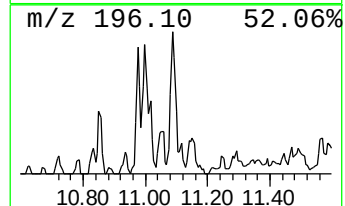
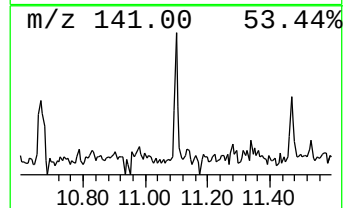
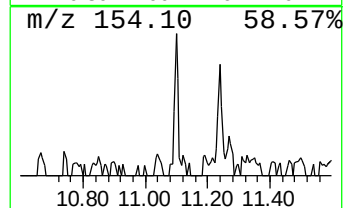
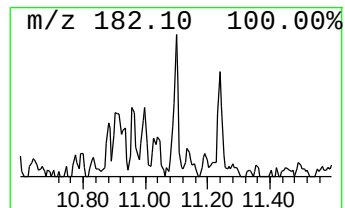
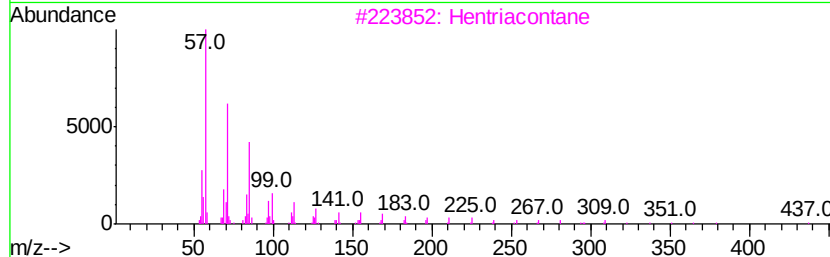
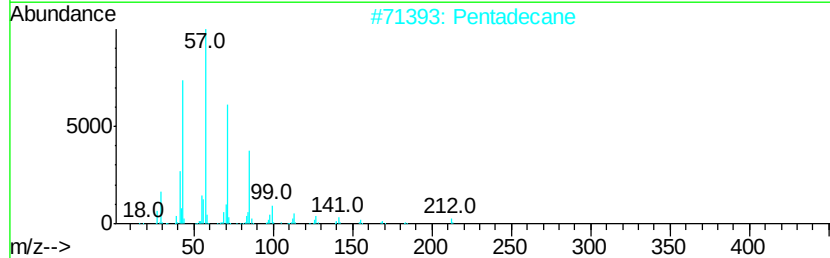
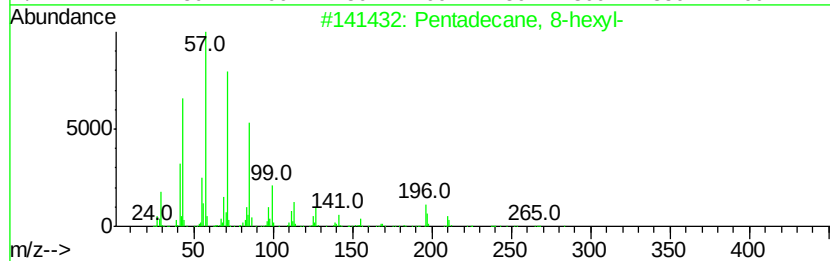
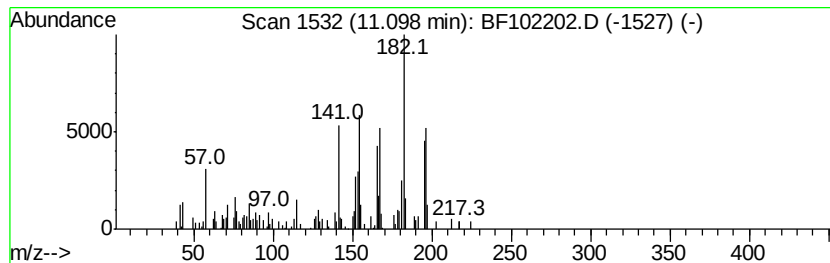
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown11.10 Concentration Rank 18

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.10 | 3.24 ng | 163333 | Phenanthrene-d10 | 11.24 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------|-----|---------|--------------|------|
| 1    |    |   | Pentadecane, 8-hexyl-         | 296 | C21H44  | 013475-75-7  | 30   |
| 2    |    |   | Pentadecane                   | 212 | C15H32  | 000629-62-9  | 30   |
| 3    |    |   | Hentriacontane                | 437 | C31H64  | 000630-04-6  | 25   |
| 4    |    |   | Tridecanol, 2-ethyl-2-methyl- | 242 | C16H34O | 1000115-66-1 | 22   |
| 5    |    |   | Hexacosane                    | 366 | C26H54  | 000630-01-3  | 18   |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

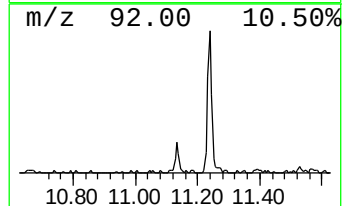
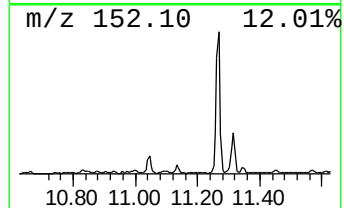
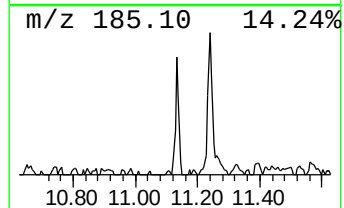
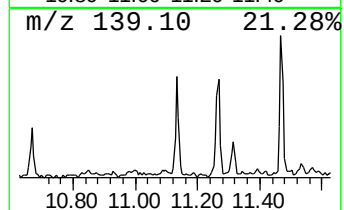
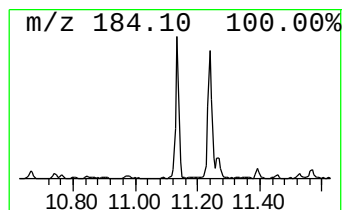
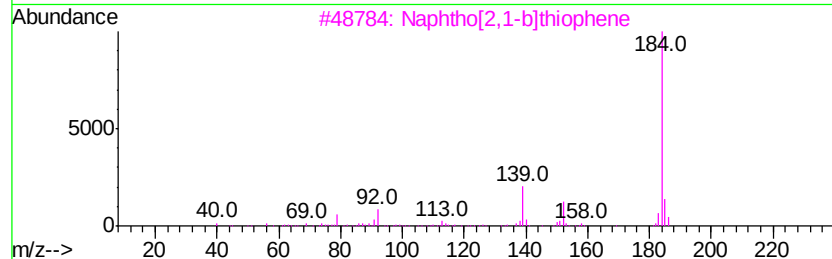
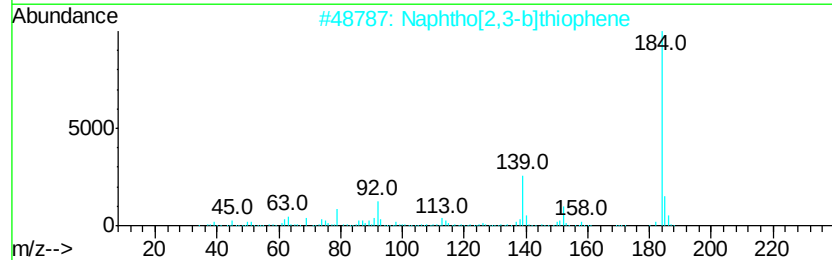
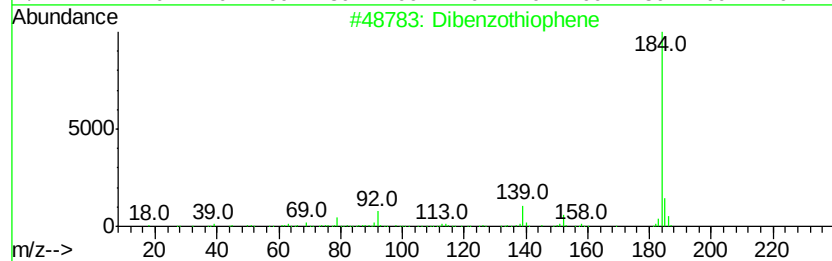
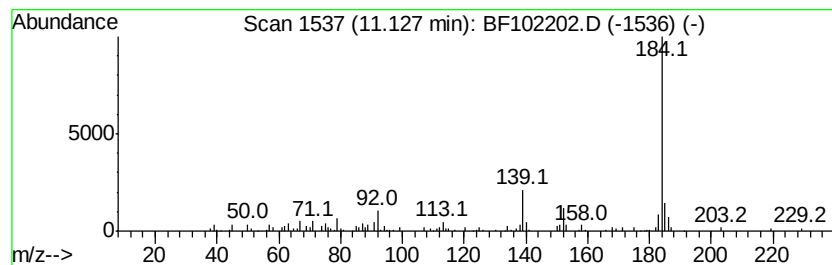
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Dibenzothiophene Concentration Rank 16

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.13 | 3.52 ng | 177437 | Phenanthrene-d10 | 11.24 |

| 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 | 97   |
| 3    |    | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 94   |
| 4    |    | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 94   |
| 5    |    | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 91   |





Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

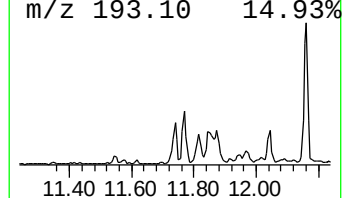
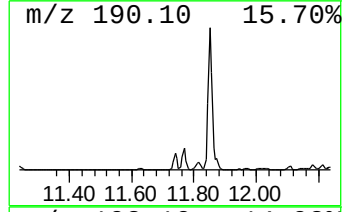
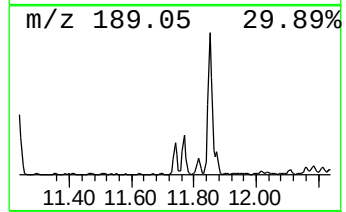
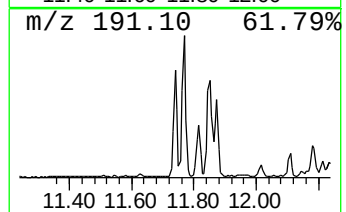
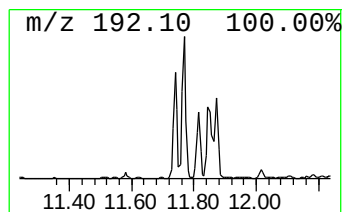
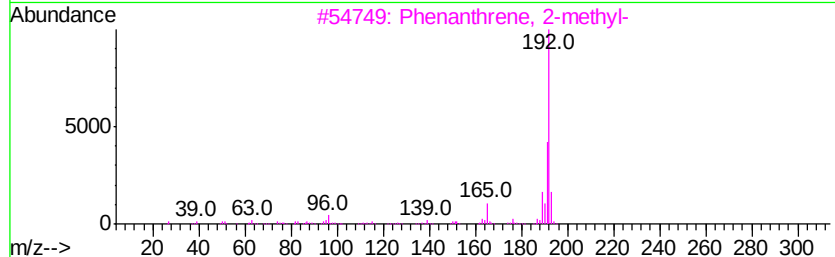
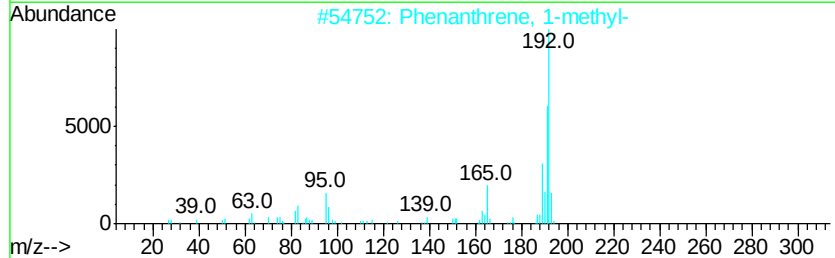
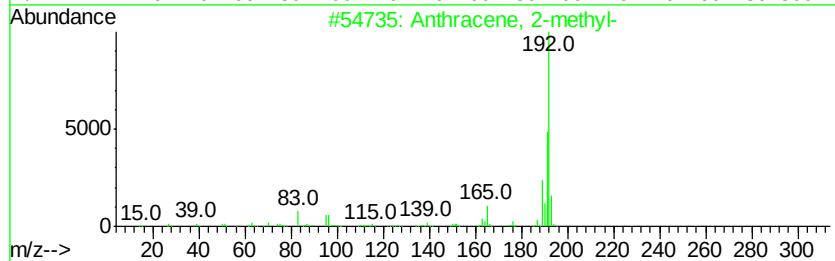
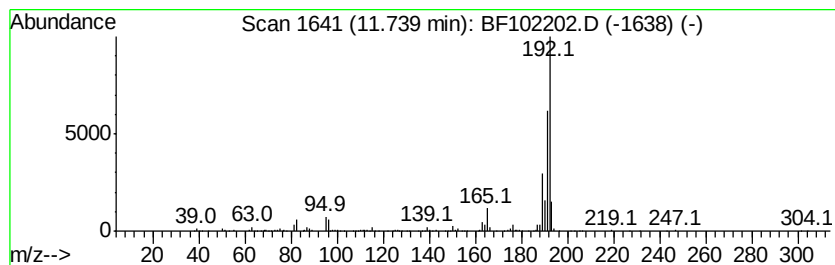
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TIC Integration Parameters: LSCINT.P

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Peak Number 6 Anthracene, 2-methyl- Concentration Rank 10

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 11.74 | 6.14 ng | 309849 | Phenanthrene-d10 | 11.24 |

| Hit# of 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|-----------|-------------------------|-----|---------|-------------|------|
| 1         | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 95   |
| 2         | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 93   |
| 3         | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 93   |
| 4         | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 93   |
| 5         | Anthracene, 1-methyl-   | 192 | C15H12  | 000610-48-0 | 90   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

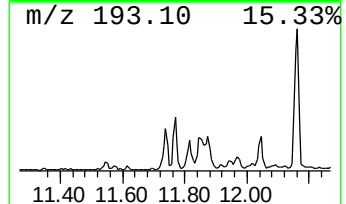
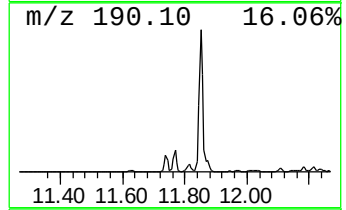
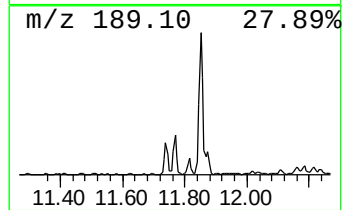
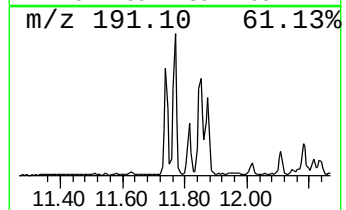
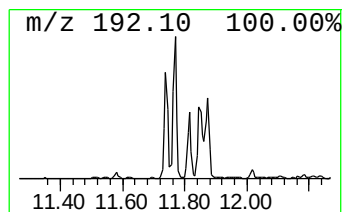
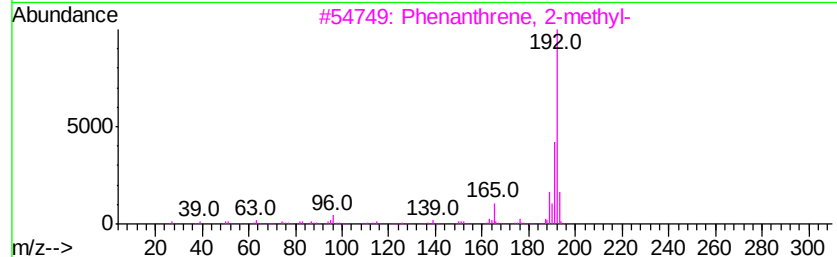
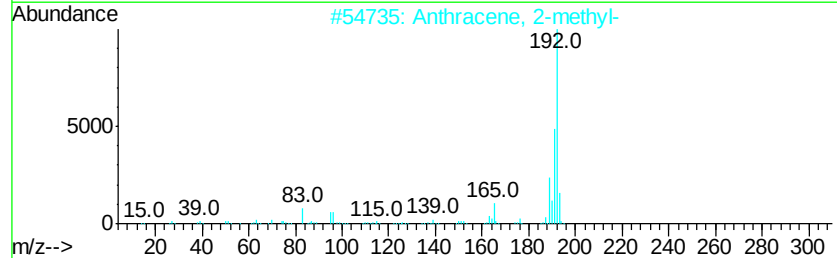
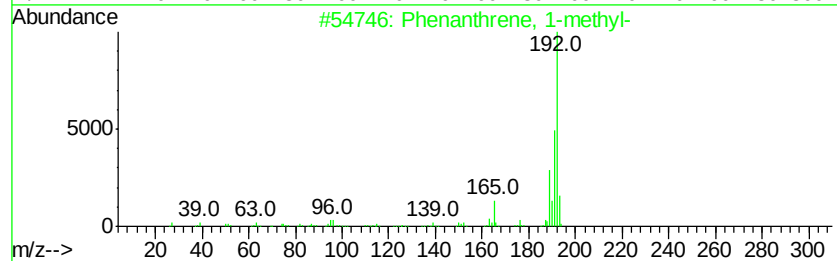
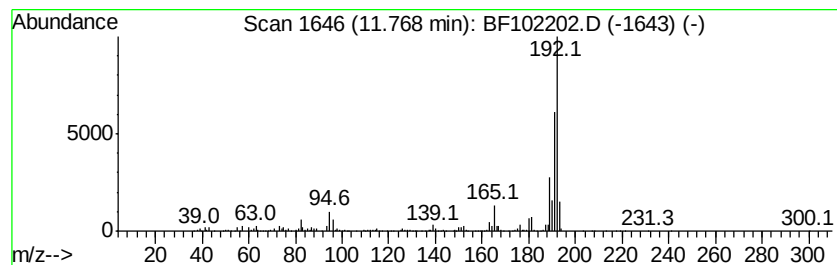
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ClientSampleId :  
EPE-125-9(5-10)

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 Phenanthrene, 1-methyl- Concentration Rank 9

| R.T.      | EstConc                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------------|--------|------------------|-------------|------|
| 11.77     | 8.75 ng                               | 441554 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID                          | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 1-methyl-               | 192    | C15H12           | 000832-69-9 | 97   |
| 2         | Anthracene, 2-methyl-                 | 192    | C15H12           | 000613-12-7 | 96   |
| 3         | Phenanthrene, 2-methyl-               | 192    | C15H12           | 002531-84-2 | 95   |
| 4         | 1H-Cyclopropa[1,1]phenanthrene,1a,... | 192    | C15H12           | 000949-41-7 | 95   |
| 5         | 1H-Indene, 1-phenyl-                  | 192    | C15H12           | 001961-96-2 | 93   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

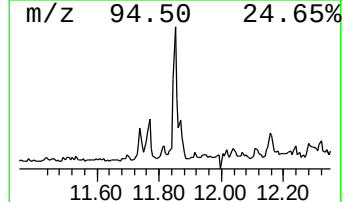
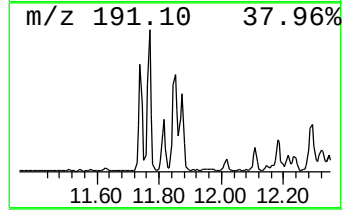
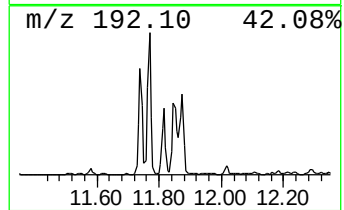
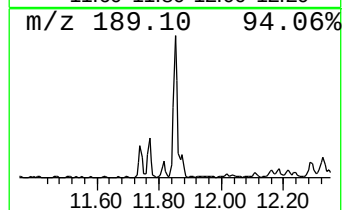
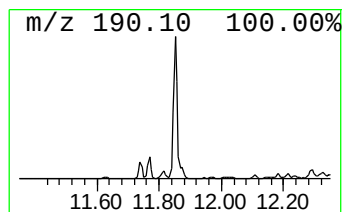
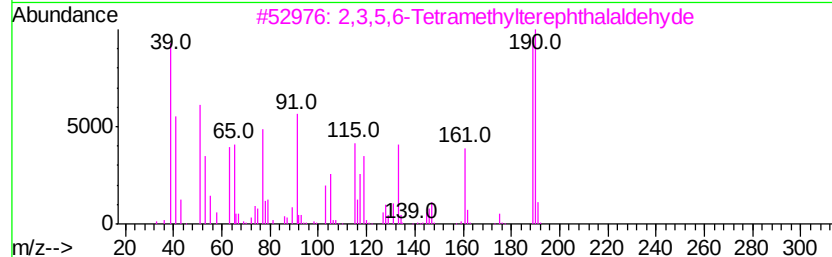
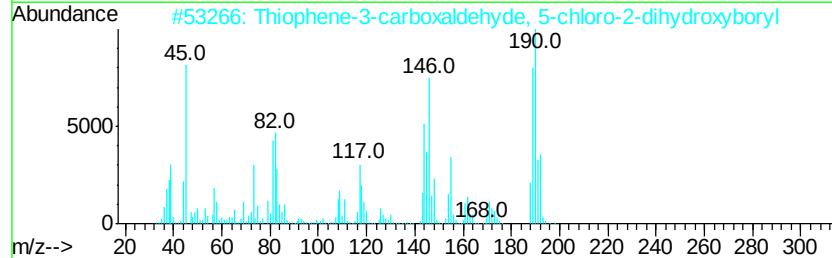
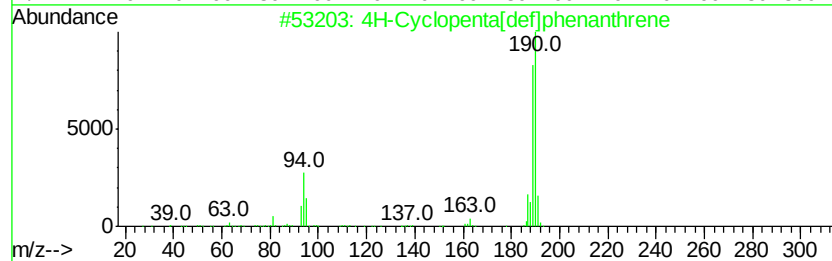
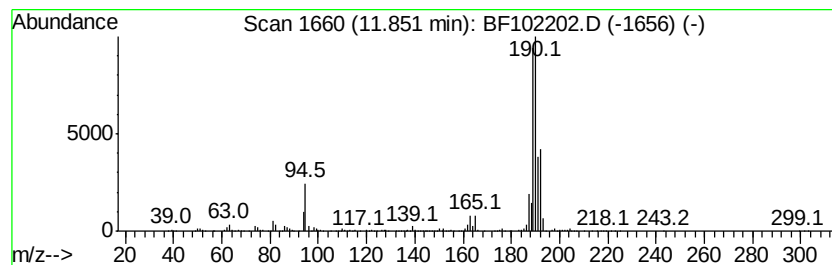
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ClientSampleId :  
EPE-125-9(5-10)

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 4H-Cyclopenta[def]phenanthrene Concentration Rank 7

| R.T.      | EstConc                             | Area   | Relative to ISTD |             | R.T.  |
|-----------|-------------------------------------|--------|------------------|-------------|-------|
| 11.85     | 13.57 ng                            | 684730 | 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         | Thiophene-3-carboxaldehyde, 5-ch... | 190    | C5H4BClO3S       | 036155-87-0 | 53    |
| 3         | 2,3,5,6-Tetramethylterephthalald... | 190    | C12H14O2         | 007072-01-7 | 47    |
| 4         | 6H-Cyclobuta[flk]phenanthrene       | 190    | C15H10           | 083469-43-6 | 45    |
| 5         | 2,2'-Bis(4,5-dimethylimidazole)     | 190    | C10H14N4         | 069286-06-2 | 28    |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

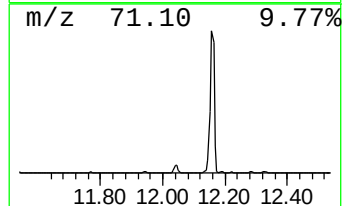
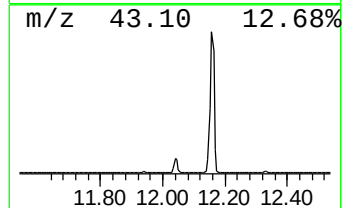
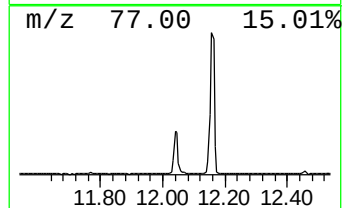
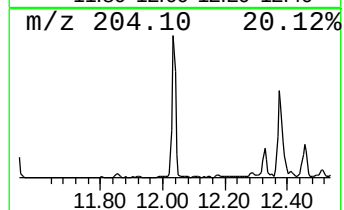
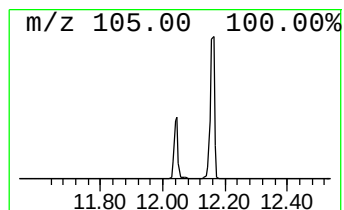
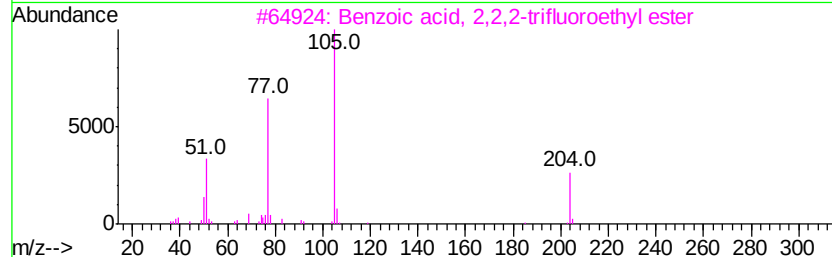
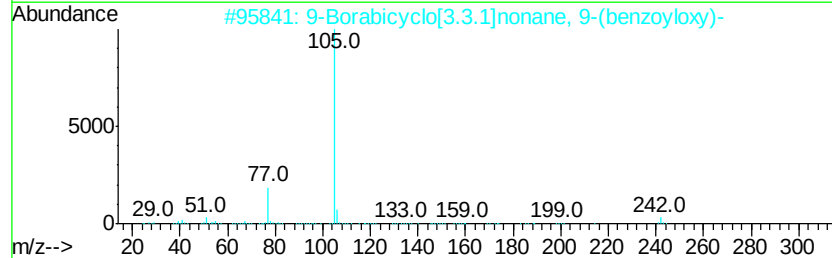
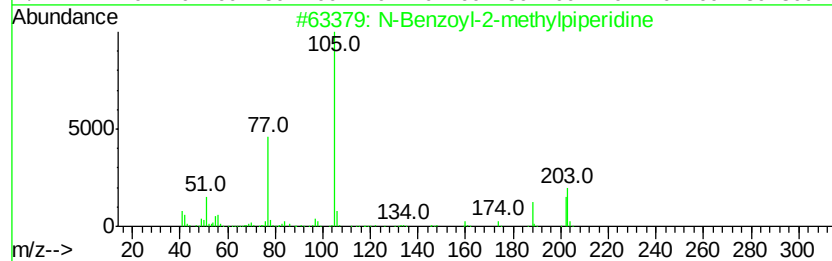
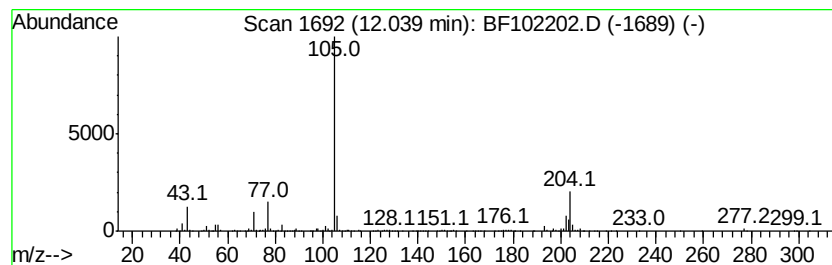
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TIC Integration Parameters: LSCINT.P

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Peak Number 11 unknown12.04 Concentration Rank 6

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 12.04 | 16.58 ng | 836940 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | N-Benzoyl-2-methylpiperidine        | 203 | C13H17NO   | 1000213-73-7 | 38   |
| 2    |    | 9-Borabicyclo[3.3.1]nonane, 9-(b... | 242 | C15H19B02  | 065212-33-1  | 27   |
| 3    |    | Benzoic acid, 2,2,2-trifluoroeth... | 204 | C9H7F3O2   | 1000376-54-4 | 25   |
| 4    |    | trans-1,2-Di-O-benzoylcyclohexan... | 324 | C20H20O4   | 1000127-85-9 | 22   |
| 5    |    | Benzoic acid 2-(4-chloro-phenyl)... | 370 | C21H19ClO4 | 1000274-89-7 | 17   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

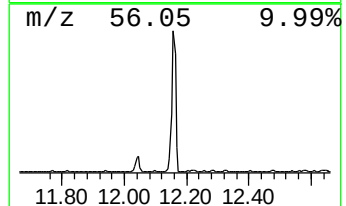
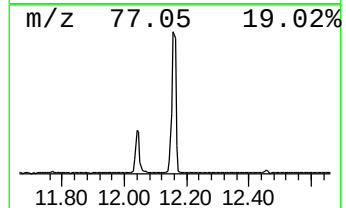
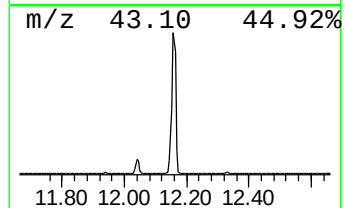
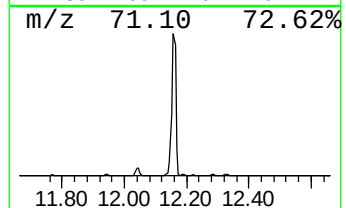
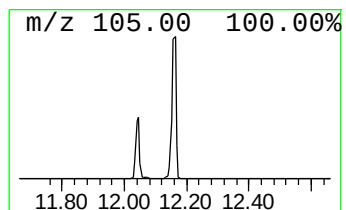
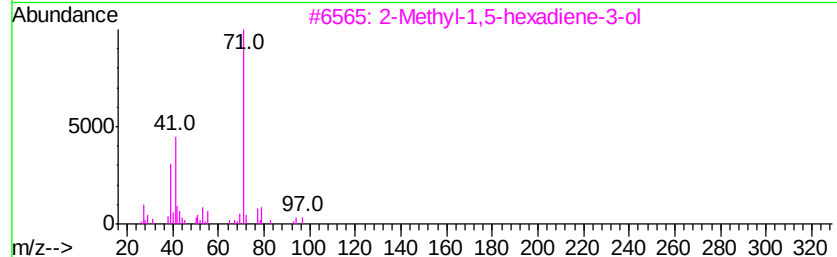
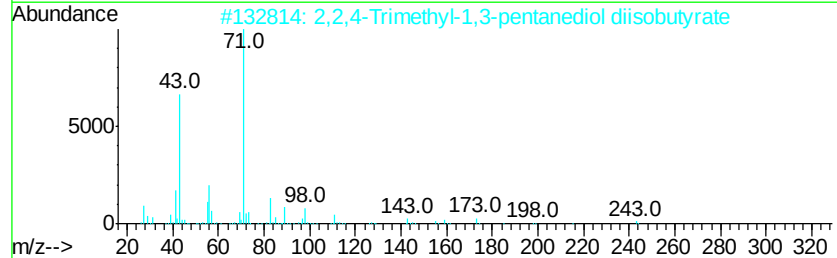
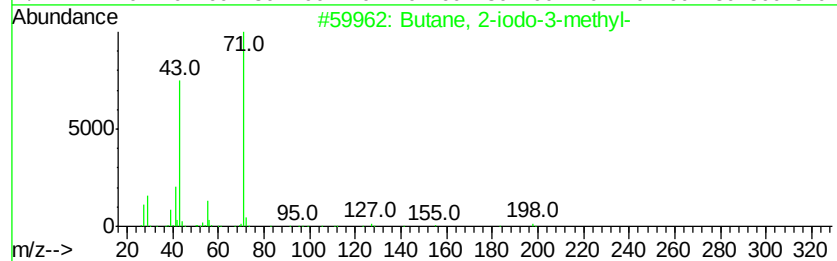
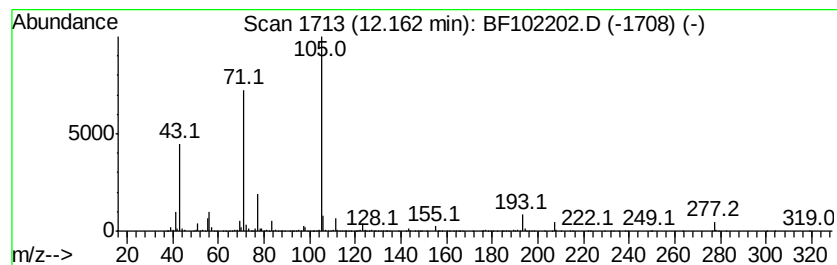
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TIC Integration Parameters: LSCINT.P

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Peak Number 12 unknown12.16 Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 12.16 | 54.06 ng | 2728380 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Butane, 2-iodo-3-methyl-            | 198 | C5H11I   | 018295-27-7 | 37   |
| 2    |    | 2,2,4-Trimethyl-1,3-pentanediol ... | 286 | C16H30O4 | 006846-50-0 | 37   |
| 3    |    | 2-Methyl-1,5-hexadiene-3-ol         | 112 | C7H12O   | 017123-60-3 | 37   |
| 4    |    | Butyric acid, neopentyl ester       | 158 | C9H18O2  | 002050-00-2 | 37   |
| 5    |    | Ethanone, 1,2-diphenyl-             | 196 | C14H12O  | 000451-40-1 | 14   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

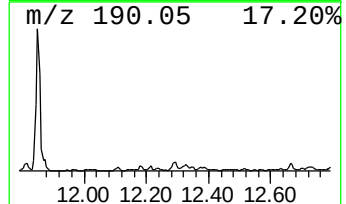
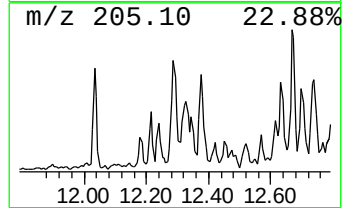
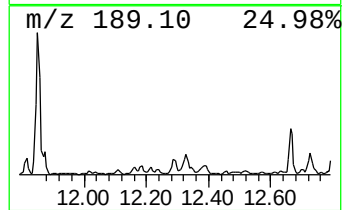
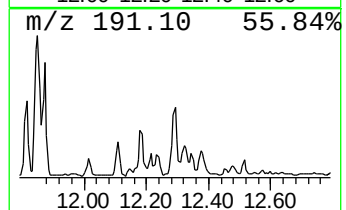
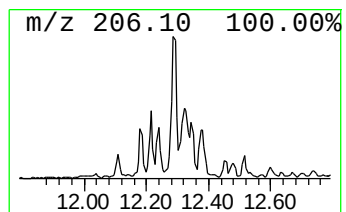
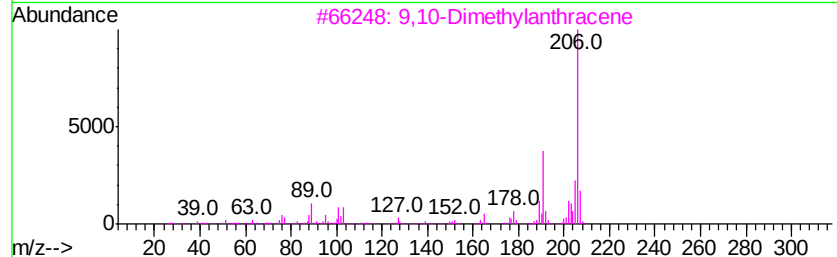
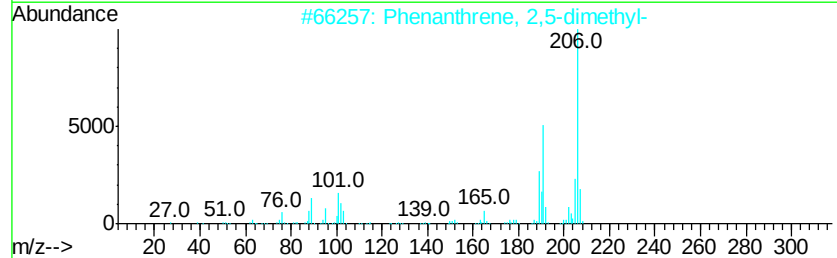
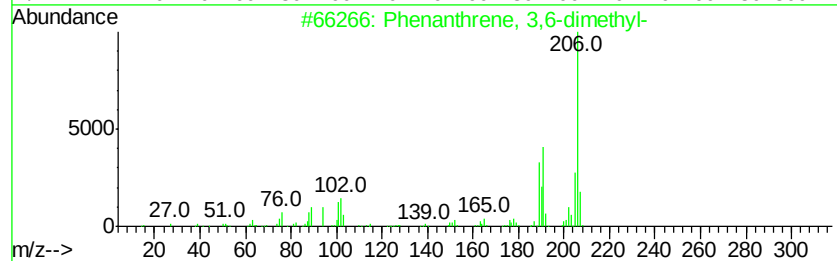
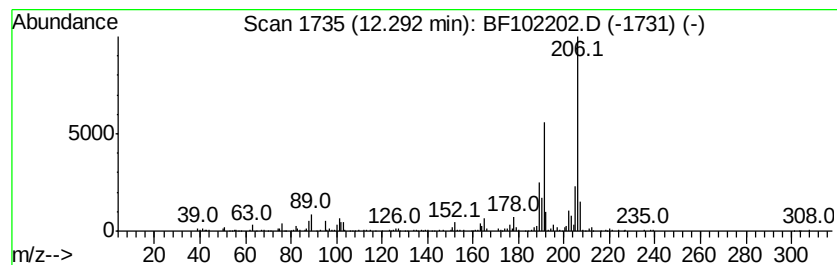
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ClientSampleId :  
EPE-125-9(5-10)

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 13 Phenanthrene, 3,6-dimethyl- Concentration Rank 11

| R.T.      | EstConc                     | Area   | Relative to ISTD | R.T.        |      |
|-----------|-----------------------------|--------|------------------|-------------|------|
| 12.29     | 5.34 ng                     | 269629 | Phenanthrene-d10 | 11.24       |      |
| Hit# of 5 | Tentative ID                | MW     | MolForm          | CAS#        | Qual |
| 1         | Phenanthrene, 3,6-dimethyl- | 206    | C16H14           | 001576-67-6 | 93   |
| 2         | Phenanthrene, 2,5-dimethyl- | 206    | C16H14           | 003674-66-6 | 93   |
| 3         | 9,10-Dimethylanthracene     | 206    | C16H14           | 000781-43-1 | 92   |
| 4         | Anthracene, 1,4-dimethyl-   | 206    | C16H14           | 000781-92-0 | 89   |
| 5         | di-p-Tolylacetylene         | 206    | C16H14           | 002789-88-0 | 87   |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

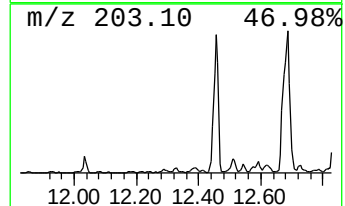
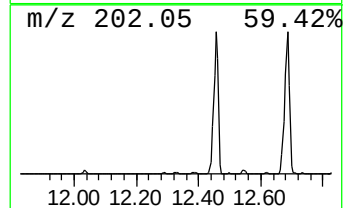
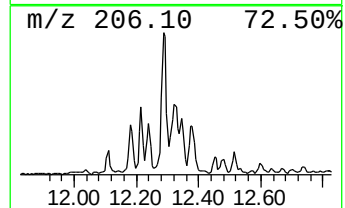
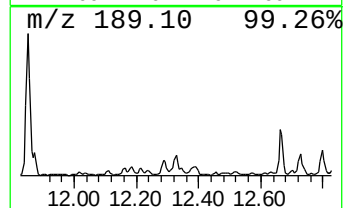
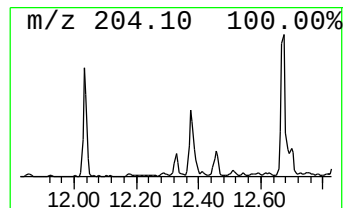
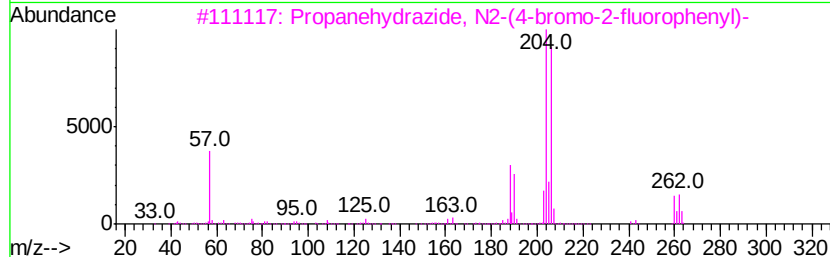
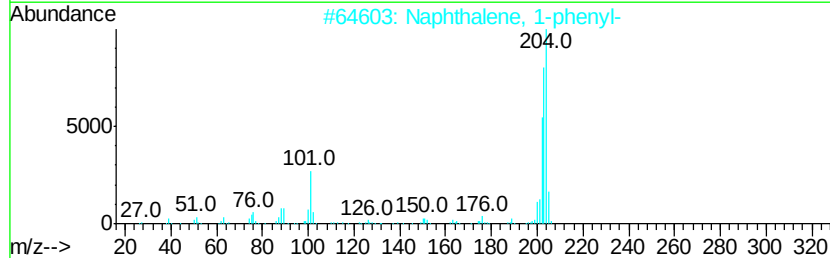
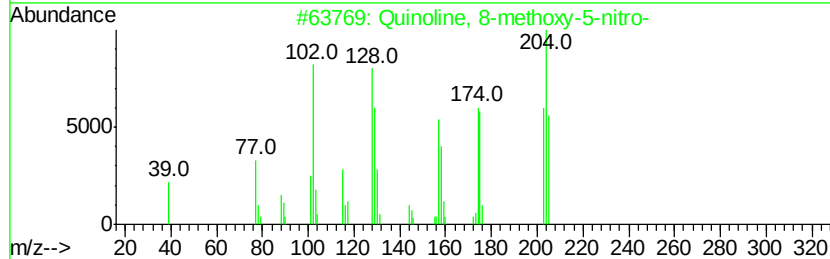
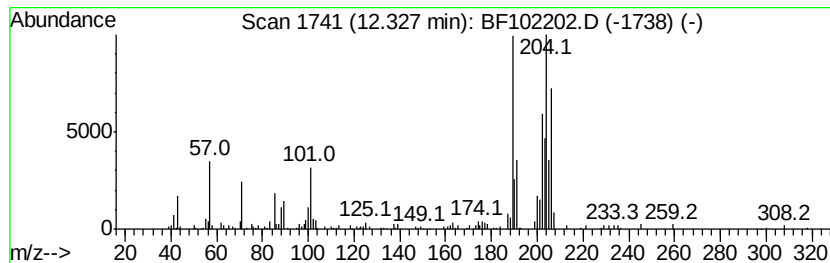
Instrument :  
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ClientSampleId :  
EPE-125-9(5-10)

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 14 unknown12.33 Concentration Rank 17

| R.T.      | EstConc                             | Area   | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|--------|------------------|--------------|------|
| 12.33     | 3.27 ng                             | 165138 | Phenanthrene-d10 | 11.24        |      |
| Hit# of 5 | Tentative ID                        | MW     | MolForm          | CAS#         | Qual |
| 1         | Quinoline, 8-methoxy-5-nitro-       | 204    | C10H8N2O3        | 1000298-88-7 | 35   |
| 2         | Naphthalene, 1-phenyl-              | 204    | C16H12           | 000605-02-7  | 35   |
| 3         | Propanehydrazide, N2-(4-bromo-2-... | 260    | C9H10BrFN2O      | 1000272-78-2 | 35   |
| 4         | Naphthalene, 2-phenyl-              | 204    | C16H12           | 000612-94-2  | 30   |
| 5         | 3,5-Dichloro-2,4-dimethyl-1-meth... | 204    | C9H10Cl2O        | 1000250-17-8 | 27   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

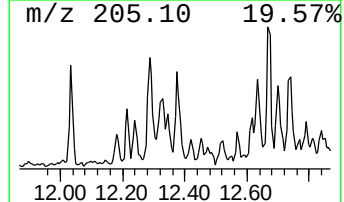
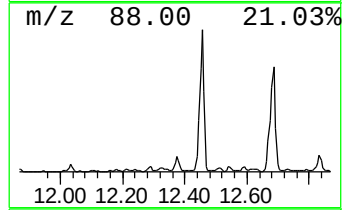
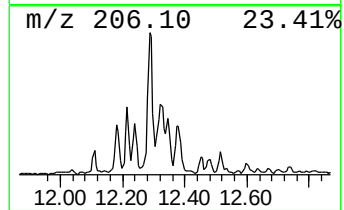
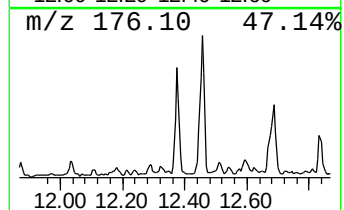
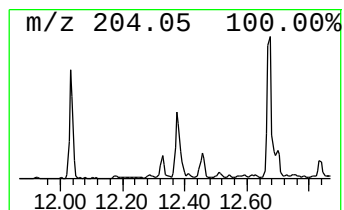
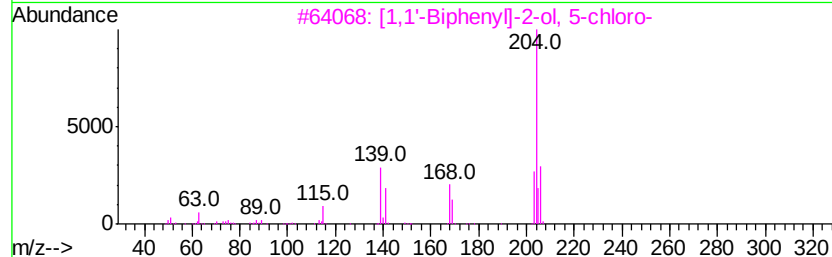
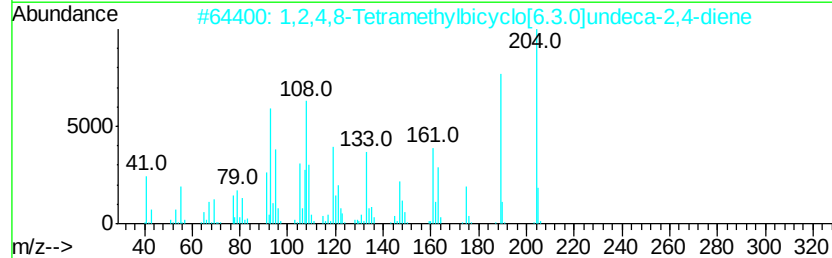
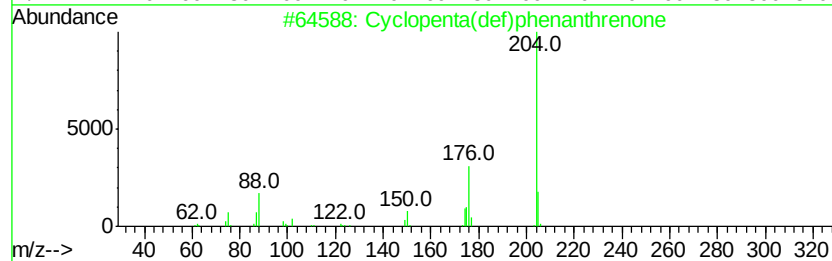
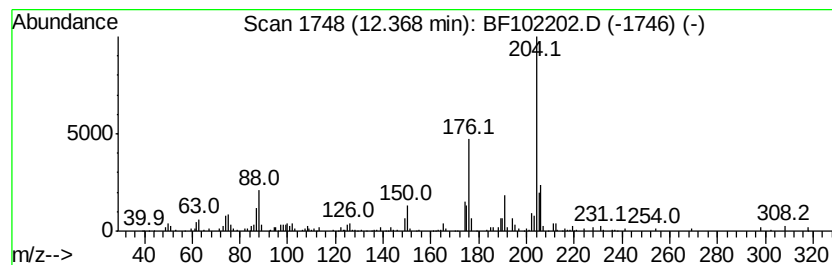
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Cyclopenta(def)phenanthrenone Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 12.37 | 4.93 ng | 248755 | Phenanthrene-d10 | 11.24 |

| Hit# | of | Tentative ID                                      | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone                     | 204 | C15H8O   | 005737-13-3 | 97   |
| 2    |    | 1,2,4,8-Tetramethylbicyclo[6.3.0]undeca-2,4-diene | 204 | C15H24   | 137235-51-9 | 45   |
| 3    |    | [1,1'-Biphenyl]-2-ol, 5-chloro-                   | 204 | C12H9ClO | 000607-12-5 | 43   |
| 4    |    | 3,4-Biphenyldicarbonitrile                        | 204 | C14H8N2  | 004128-63-6 | 38   |
| 5    |    | [1,1'-Biphenyl]-4,4'-dicarbonitrile               | 204 | C14H8N2  | 001591-30-6 | 38   |





Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

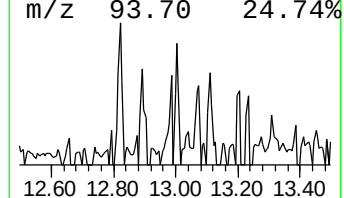
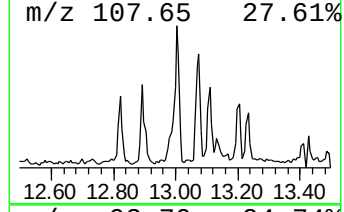
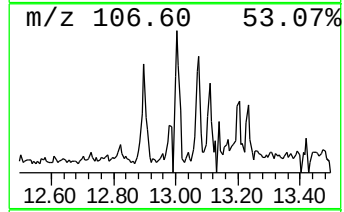
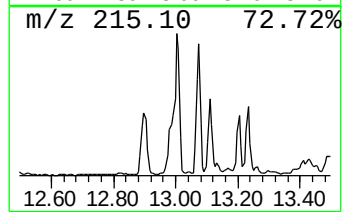
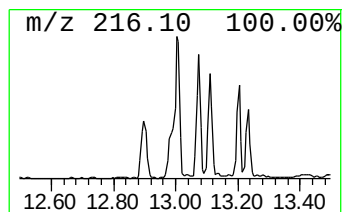
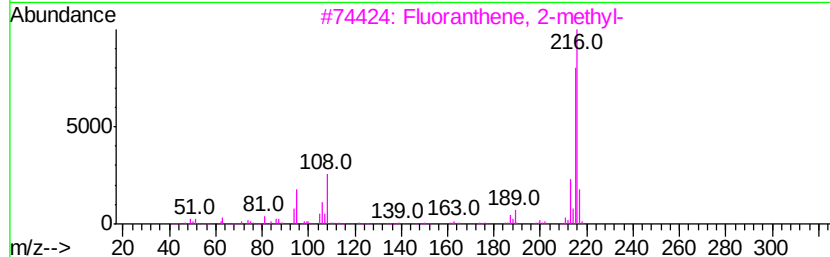
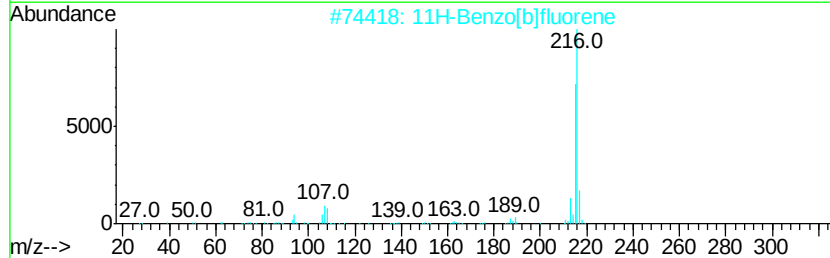
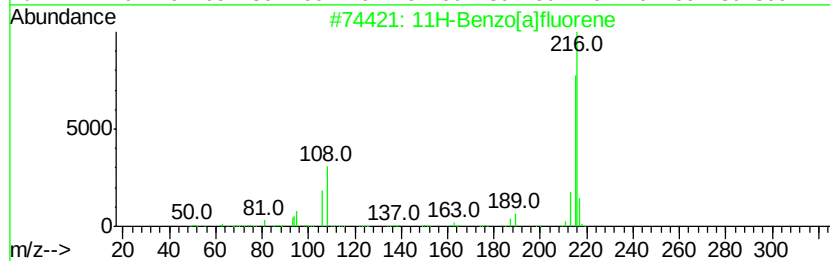
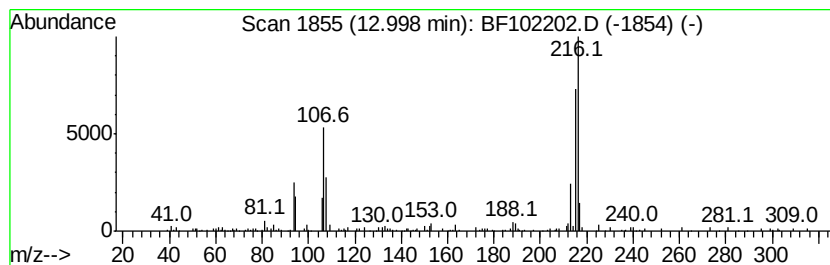
Instrument :  
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ClientSampleId :  
EPE-125-9(5-10)

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 11H-Benzo[a]fluorene Concentration Rank 19

| R.T.    | EstConc | Area                    | Relative to ISTD | R.T.           |
|---------|---------|-------------------------|------------------|----------------|
| 13.00   | 3.22 ng | 500025                  | Chrysene-d12     | 13.88          |
| Hit# of | 5       | Tentative ID            | MW MolForm       | CAS# Qual      |
| 1       |         | 11H-Benzo[a]fluorene    | 216 C17H12       | 000238-84-6 94 |
| 2       |         | 11H-Benzo[b]fluorene    | 216 C17H12       | 000243-17-4 93 |
| 3       |         | Fluoranthene, 2-methyl- | 216 C17H12       | 033543-31-6 87 |
| 4       |         | Pvrene, 1-methyl-       | 216 C17H12       | 002381-21-7 87 |
| 5       |         | 7H-Benzo[c]fluorene     | 216 C17H12       | 000205-12-9 81 |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

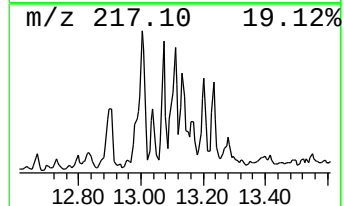
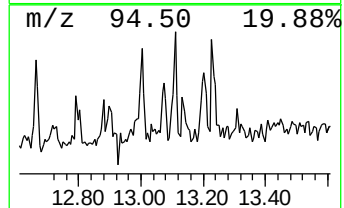
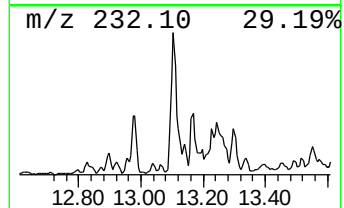
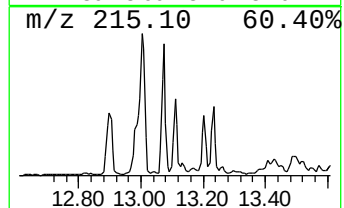
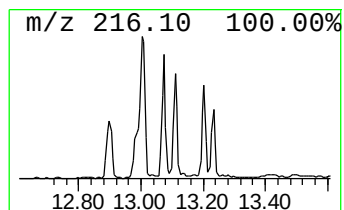
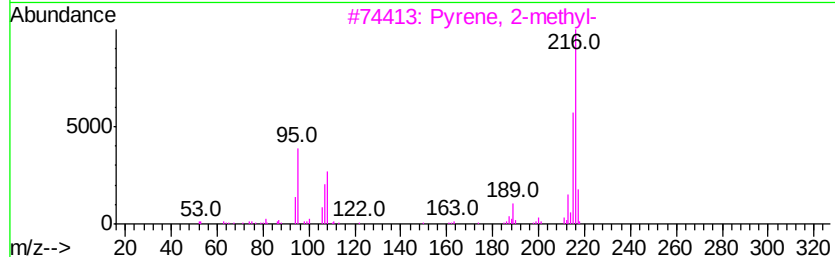
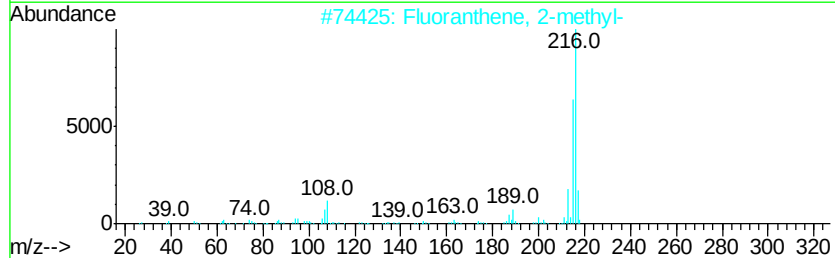
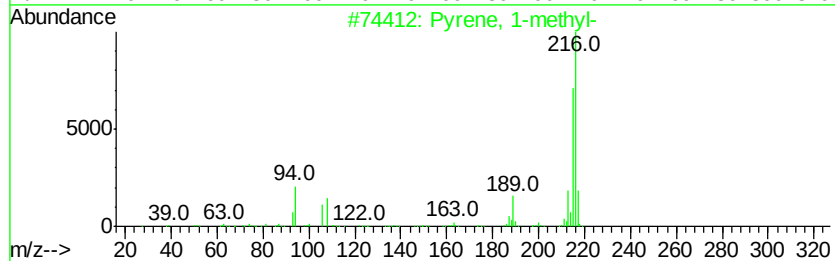
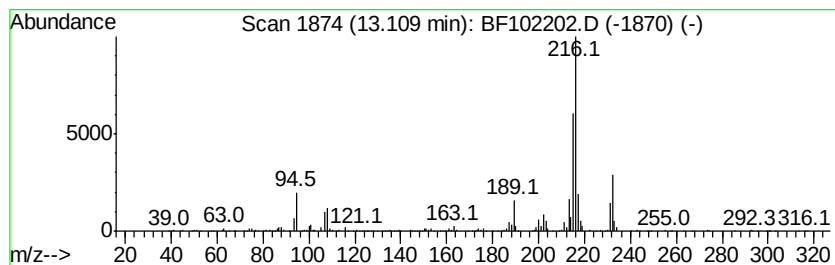
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 Pyrene, 1-methyl- Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 13.11 | 2.86 ng | 443556 | Chrysene-d12     | 13.88 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Pyrene, 1-methyl-       | 216 | C17H12  | 002381-21-7 | 98   |
| 2    |    |   | Fluoranthene, 2-methyl- | 216 | C17H12  | 033543-31-6 | 93   |
| 3    |    |   | Pyrene, 2-methyl-       | 216 | C17H12  | 003442-78-2 | 90   |
| 4    |    |   | 11H-Benzo[a]fluorene    | 216 | C17H12  | 000238-84-6 | 76   |
| 5    |    |   | Pyrene, 4-methyl-       | 216 | C17H12  | 003353-12-6 | 64   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

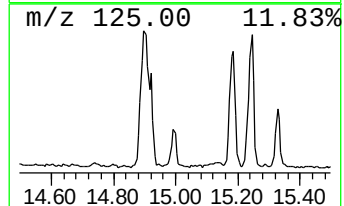
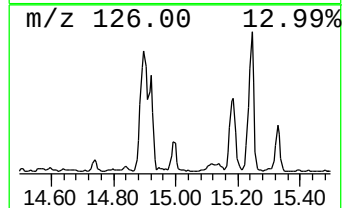
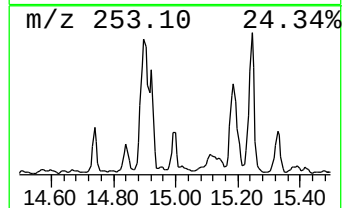
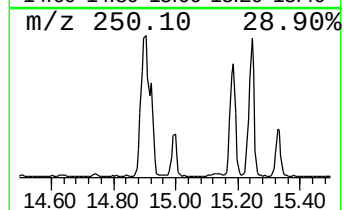
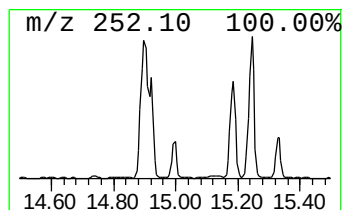
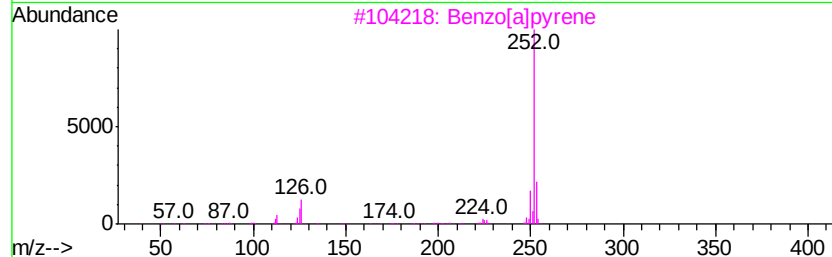
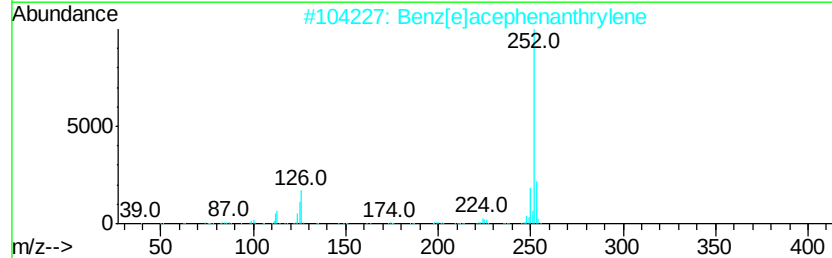
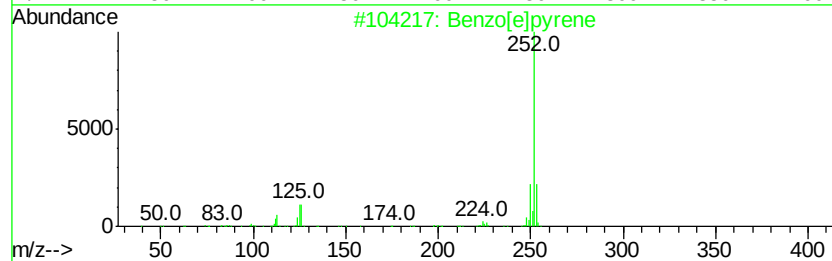
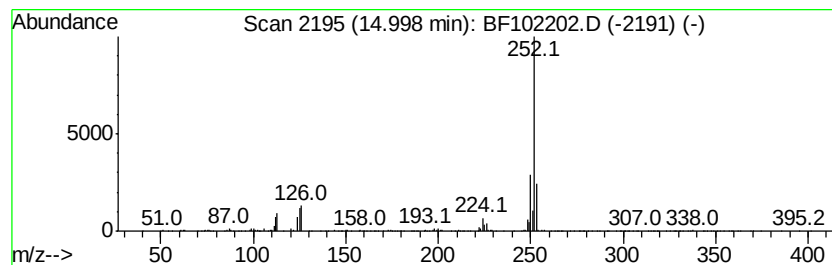
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 8

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 15.00 | 9.64 ng | 337768 | Perylene-d12     | 15.30 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | Benzo[e]pyrene            | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    | Benzo[e]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 93   |
| 3    |    | Benzo[a]pyrene            | 252 | C20H12  | 000050-32-8 | 91   |
| 4    |    | Benzo[k]fluoranthene      | 252 | C20H12  | 000207-08-9 | 90   |
| 5    |    | Perylene                  | 252 | C20H12  | 000198-55-0 | 87   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

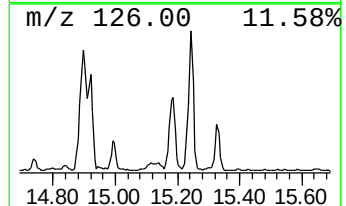
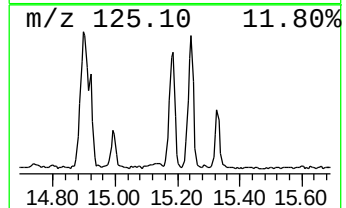
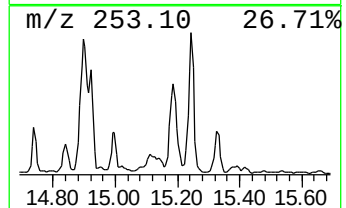
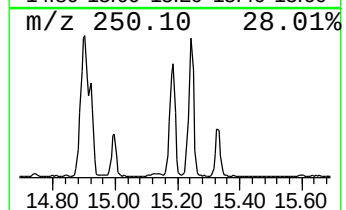
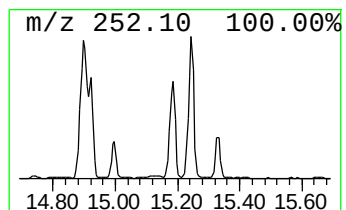
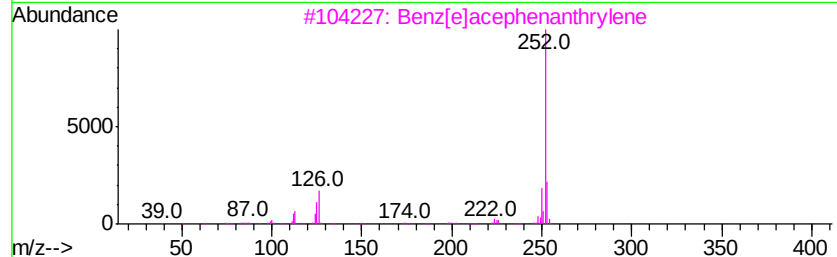
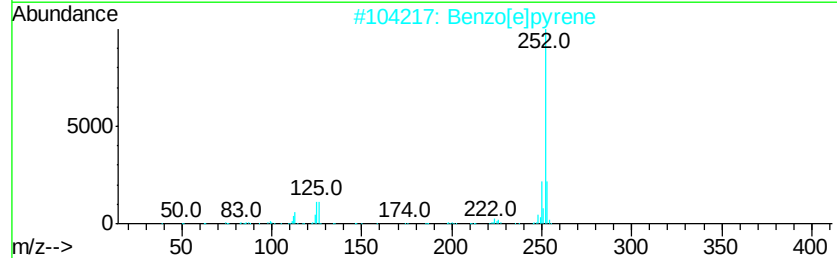
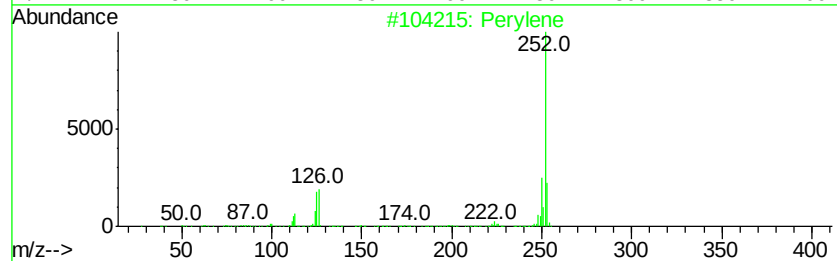
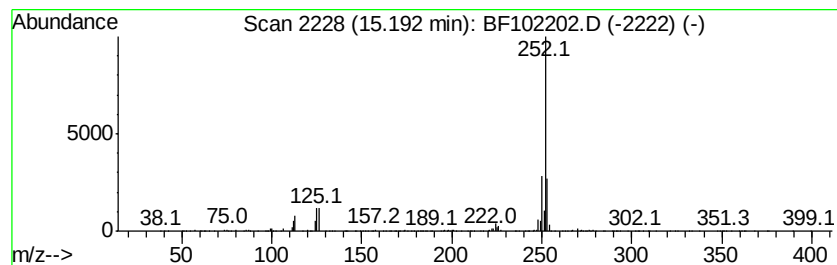
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 Perylene Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 15.19 | 32.94 ng | 1154310 | Perylene-d12     | 15.30 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Perylene                   | 252 | C20H12  | 000198-55-0 | 98   |
| 2    |    | Benzo[el]pyrene            | 252 | C20H12  | 000192-97-2 | 98   |
| 3    |    | Benzo[el]acephenanthrylene | 252 | C20H12  | 000205-99-2 | 98   |
| 4    |    | Benzo[al]pyrene            | 252 | C20H12  | 000050-32-8 | 93   |
| 5    |    | Benzo[k]fluoranthene       | 252 | C20H12  | 000207-08-9 | 93   |



Data Path : U:\HPCHEM1\BNA F\DATA\BF011818\  
Data File : BF102202.D  
Acq On : 18 Jan 2018 20:07  
Operator : SJ/JU  
Sample : J1187-10 2X  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
EPE-125-9(5-10)

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

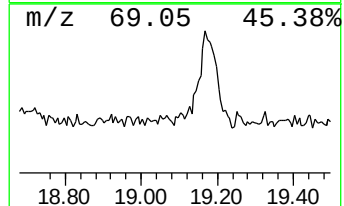
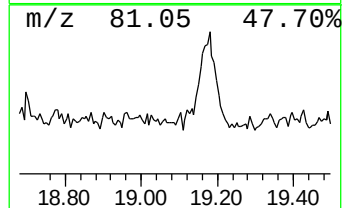
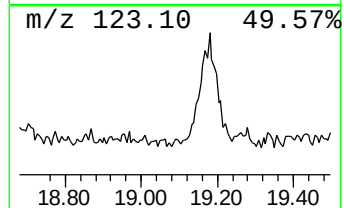
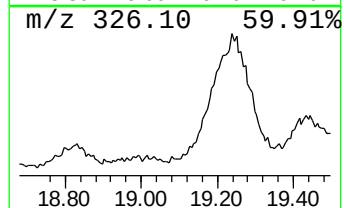
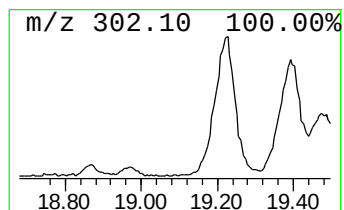
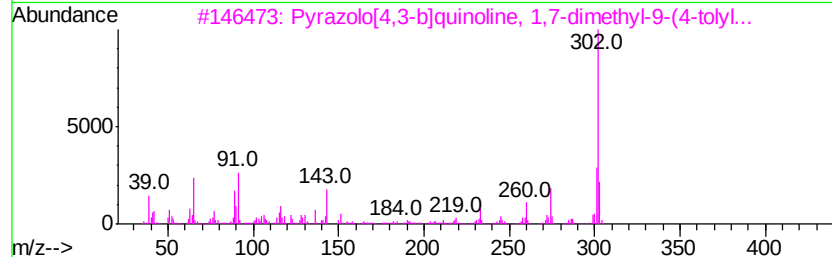
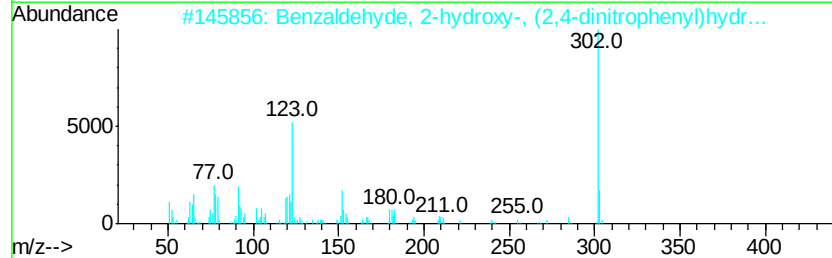
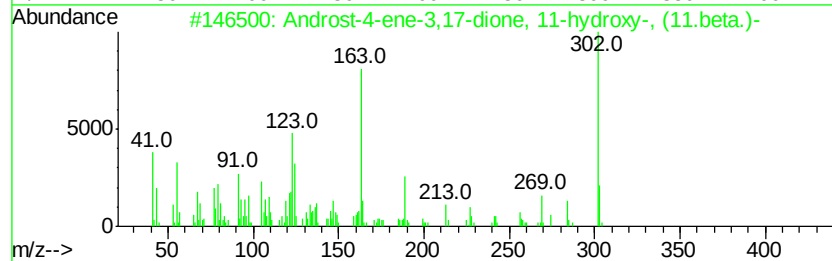
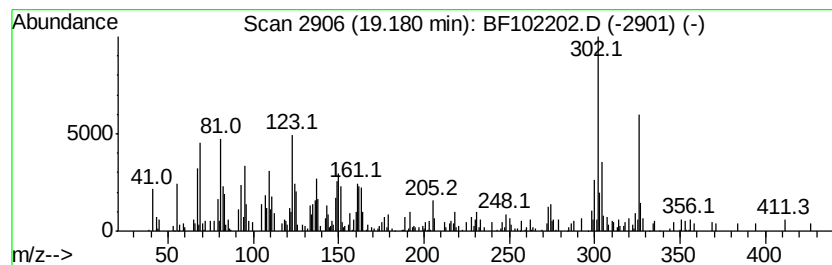
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 Androst-4-ene-3,17-dione, 1... Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 19.18 | 26.70 ng | 935465 | Perylene-d12     | 15.30 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Androst-4-ene-3,17-dione, 11-hyd... | 302 | C19H26O3   | 000382-44-5  | 55   |
| 2    |    | Benzaldehyde, 2-hydroxy-, (2,4-d... | 302 | C13H10N4O5 | 001160-76-5  | 46   |
| 3    |    | Pyrazolo[4,3-b]quinoline, 1,7-di... | 302 | C19H18N4   | 1000263-77-1 | 42   |
| 4    |    | 2H-1-Benzopyran-2-one, 7-(3-meth... | 302 | C19H14N2O2 | 006025-18-9  | 42   |
| 5    |    | Norethandrolone                     | 302 | C20H30O2   | 000052-78-8  | 42   |



Data Path : U:\HPCHEM1\BNA\_F\DATA\BF011818\  
 Data File : BF102202.D  
 Acq On : 18 Jan 2018 20:07  
 Operator : SJ/JU  
 Sample : J1187-10 2X  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 EPE-125-9(5-10)

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 |
| unknown6.49          | 6.49  | 42.1 ng |       | 1907000  | 1                     | 6.72  | 906778  | 20.0 |
| unknown10.66         | 10.66 | 3.8 ng  |       | 193025   | 4                     | 11.24 | 1009400 | 20.0 |
| unknown11.10         | 11.10 | 3.2 ng  |       | 163333   | 4                     | 11.24 | 1009400 | 20.0 |
| Dibenzothiophene     | 11.13 | 3.5 ng  |       | 177437   | 4                     | 11.24 | 1009400 | 20.0 |
| Anthracene, 2-met... | 11.74 | 6.1 ng  |       | 309849   | 4                     | 11.24 | 1009400 | 20.0 |
| Phenanthrene, 1-m... | 11.77 | 8.8 ng  |       | 441554   | 4                     | 11.24 | 1009400 | 20.0 |
| 4H-Cyclopenta[def... | 11.85 | 13.6 ng |       | 684730   | 4                     | 11.24 | 1009400 | 20.0 |
| unknown12.04         | 12.04 | 16.6 ng |       | 836940   | 4                     | 11.24 | 1009400 | 20.0 |
| unknown12.16         | 12.16 | 54.1 ng |       | 2728380  | 4                     | 11.24 | 1009400 | 20.0 |
| Phenanthrene, 3,6... | 12.29 | 5.3 ng  |       | 269629   | 4                     | 11.24 | 1009400 | 20.0 |
| unknown12.33         | 12.33 | 3.3 ng  |       | 165138   | 4                     | 11.24 | 1009400 | 20.0 |
| Cyclopenta(def)ph... | 12.37 | 4.9 ng  |       | 248755   | 4                     | 11.24 | 1009400 | 20.0 |
| 11H-Benzo[a]fluorene | 13.00 | 3.2 ng  |       | 500025   | 5                     | 13.88 | 3107100 | 20.0 |
| Pyrene, 1-methyl-    | 13.11 | 2.9 ng  |       | 443556   | 5                     | 13.88 | 3107100 | 20.0 |
| Benzo[e]pyrene       | 15.00 | 9.6 ng  |       | 337768   | 6                     | 15.30 | 700823  | 20.0 |
| Perylene             | 15.19 | 32.9 ng |       | 1154310  | 6                     | 15.30 | 700823  | 20.0 |
| Androst-4-ene-3,1... | 19.18 | 26.7 ng |       | 935465   | 6                     | 15.30 | 700823  | 20.0 |