

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
 Data File : BF136159.D  
 Acq On : 06 Nov 2023 17:28  
 Operator : CG\JU  
 Sample : 05253-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L-6(0-5)

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:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF136159.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 5.451       | 567           | 572         | 575          | rBV      | 1345582        | 1230269       | 11.17%          | 0.772%        |
| 2         | 6.445       | 738           | 741         | 744          | rVB      | 1284442        | 1196006       | 10.86%          | 0.750%        |
| 3         | 6.816       | 801           | 804         | 808          | rBV      | 687342         | 531784        | 4.83%           | 0.334%        |
| 4         | 7.381       | 896           | 900         | 904          | rVB      | 886102         | 836128        | 7.59%           | 0.525%        |
| 5         | 7.851       | 972           | 980         | 982          | rBV3     | 470688         | 644347        | 5.85%           | 0.404%        |
| 6         | 7.881       | 982           | 985         | 990          | rVV      | 412284         | 454551        | 4.13%           | 0.285%        |
| 7         | 8.139       | 1016          | 1029        | 1031         | rBV      | 7063262        | 9717425       | 88.24%          | 6.096%        |
| 8         | 8.175       | 1031          | 1035        | 1040         | rVB      | 867192         | 643300        | 5.84%           | 0.404%        |
| 9         | 8.769       | 1127          | 1136        | 1139         | rVV      | 732768         | 748158        | 6.79%           | 0.469%        |
| 10        | 8.833       | 1139          | 1147        | 1149         | rVV      | 6708925        | 8557223       | 77.70%          | 5.368%        |
| 11        | 8.869       | 1149          | 1153        | 1156         | rVV      | 442761         | 437257        | 3.97%           | 0.274%        |
| 12        | 8.933       | 1156          | 1164        | 1167         | rVB      | 6839367        | 8866953       | 80.52%          | 5.563%        |
| 13        | 9.180       | 1202          | 1206        | 1209         | rVB      | 1869653        | 1581117       | 14.36%          | 0.992%        |
| 14        | 9.286       | 1216          | 1224        | 1226         | rBV      | 3456214        | 3235282       | 29.38%          | 2.030%        |
| 15        | 9.351       | 1231          | 1235        | 1237         | rVV      | 777489         | 731379        | 6.64%           | 0.459%        |
| 16        | 9.375       | 1237          | 1239        | 1245         | rVB2     | 624163         | 803961        | 7.30%           | 0.504%        |
| 17        | 9.451       | 1245          | 1252        | 1255         | rBV      | 3155891        | 4400357       | 39.96%          | 2.761%        |
| 18        | 9.480       | 1255          | 1257        | 1260         | rVV      | 971657         | 690822        | 6.27%           | 0.433%        |
| 19        | 9.527       | 1260          | 1265        | 1267         | rVV      | 3972015        | 4562520       | 41.43%          | 2.862%        |
| 20        | 9.551       | 1267          | 1269        | 1272         | rVV      | 3119485        | 2521348       | 22.90%          | 1.582%        |
| 21        | 9.580       | 1272          | 1274        | 1277         | rVB      | 726216         | 636894        | 5.78%           | 0.400%        |
| 22        | 9.639       | 1280          | 1284        | 1289         | rBV      | 2115927        | 2286098       | 20.76%          | 1.434%        |
| 23        | 9.722       | 1293          | 1298        | 1301         | rBV      | 2967064        | 2405013       | 21.84%          | 1.509%        |
| 24        | 9.845       | 1315          | 1319        | 1320         | rBV      | 1639455        | 1571933       | 14.27%          | 0.986%        |
| 25        | 9.898       | 1324          | 1328        | 1331         | rVV2     | 1096499        | 1229312       | 11.16%          | 0.771%        |
| 26        | 9.969       | 1336          | 1340        | 1343         | rBV2     | 619050         | 646881        | 5.87%           | 0.406%        |
| 27        | 10.039      | 1349          | 1352        | 1353         | rVV2     | 399166         | 431779        | 3.92%           | 0.271%        |
| 28        | 10.063      | 1353          | 1356        | 1359         | rVV      | 1280009        | 1085740       | 9.86%           | 0.681%        |
| 29        | 10.104      | 1359          | 1363        | 1366         | rVV      | 1073658        | 846776        | 7.69%           | 0.531%        |
| 30        | 10.175      | 1371          | 1375        | 1378         | rBV2     | 849089         | 1081934       | 9.82%           | 0.679%        |
| 31        | 10.204      | 1378          | 1380        | 1383         | rVV      | 677167         | 536325        | 4.87%           | 0.336%        |
| 32        | 10.269      | 1387          | 1391        | 1393         | rBV2     | 505699         | 654853        | 5.95%           | 0.411%        |
| 33        | 10.410      | 1412          | 1415        | 1421         | rVB      | 2016536        | 2254477       | 20.47%          | 1.414%        |
| 34        | 10.474      | 1421          | 1426        | 1428         | rBV2     | 456795         | 590035        | 5.36%           | 0.370%        |
| 35        | 10.516      | 1431          | 1433        | 1436         | rVV2     | 460286         | 428477        | 3.89%           | 0.269%        |
| 36        | 10.563      | 1439          | 1441        | 1444         | rVV      | 569424         | 555445        | 5.04%           | 0.348%        |

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 ClientSampleId :  
 L-6(0-5)

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:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |          |         |        |
|----|--------|------|------|------|------|---------|----------|---------|--------|
| 37 | 10.633 | 1450 | 1453 | 1454 | rBV  | 726872  | 699421   | 6.35%   | 0.439% |
| 38 | 10.645 | 1454 | 1455 | 1460 | rVB  | 1179785 | 1042134  | 9.46%   | 0.654% |
| 39 | 10.774 | 1474 | 1477 | 1484 | rVB  | 559591  | 601869   | 5.47%   | 0.378% |
| 40 | 10.963 | 1502 | 1509 | 1511 | rBV2 | 865174  | 1223117  | 11.11%  | 0.767% |
| 41 | 10.986 | 1511 | 1513 | 1516 | rVV  | 587910  | 457476   | 4.15%   | 0.287% |
| 42 | 11.039 | 1520 | 1522 | 1525 | rVV  | 606132  | 556656   | 5.05%   | 0.349% |
| 43 | 11.251 | 1555 | 1558 | 1563 | rVB  | 2673459 | 2684732  | 24.38%  | 1.684% |
| 44 | 11.398 | 1572 | 1583 | 1586 | rBV  | 6544438 | 11012575 | 100.00% | 6.909% |
| 45 | 11.439 | 1586 | 1590 | 1592 | rVV  | 3046494 | 2568686  | 23.33%  | 1.611% |
| 46 | 11.463 | 1592 | 1594 | 1597 | rVV3 | 302028  | 355579   | 3.23%   | 0.223% |
| 47 | 11.657 | 1624 | 1627 | 1629 | rBV  | 1040419 | 822079   | 7.46%   | 0.516% |
| 48 | 11.686 | 1629 | 1632 | 1636 | rVB  | 1560389 | 1526912  | 13.87%  | 0.958% |
| 49 | 11.774 | 1641 | 1647 | 1650 | rVB  | 1260839 | 1529899  | 13.89%  | 0.960% |
| 50 | 11.816 | 1650 | 1654 | 1656 | rBV2 | 396772  | 440591   | 4.00%   | 0.276% |
| 51 | 11.869 | 1656 | 1663 | 1665 | rVV2 | 2505420 | 3000030  | 27.24%  | 1.882% |
| 52 | 11.898 | 1665 | 1668 | 1670 | rVB  | 2807251 | 2573390  | 23.37%  | 1.614% |
| 53 | 11.939 | 1670 | 1675 | 1678 | rBV  | 1039795 | 971457   | 8.82%   | 0.609% |
| 54 | 11.980 | 1678 | 1682 | 1684 | rVV  | 3231337 | 3681378  | 33.43%  | 2.310% |
| 55 | 12.004 | 1684 | 1686 | 1690 | rVB  | 1967424 | 1428826  | 12.97%  | 0.896% |
| 56 | 12.157 | 1704 | 1712 | 1715 | rBV  | 1493876 | 1854278  | 16.84%  | 1.163% |
| 57 | 12.186 | 1715 | 1717 | 1720 | rVV  | 445626  | 400091   | 3.63%   | 0.251% |
| 58 | 12.263 | 1724 | 1730 | 1732 | rBV2 | 280565  | 477680   | 4.34%   | 0.300% |
| 59 | 12.339 | 1740 | 1743 | 1745 | rVV  | 585746  | 570785   | 5.18%   | 0.358% |
| 60 | 12.363 | 1745 | 1747 | 1749 | rVB2 | 481281  | 388897   | 3.53%   | 0.244% |
| 61 | 12.416 | 1749 | 1756 | 1759 | rBV  | 1431639 | 1743066  | 15.83%  | 1.094% |
| 62 | 12.451 | 1759 | 1762 | 1764 | rVV2 | 963440  | 1167073  | 10.60%  | 0.732% |
| 63 | 12.510 | 1768 | 1772 | 1775 | rBV3 | 521193  | 784280   | 7.12%   | 0.492% |
| 64 | 12.580 | 1780 | 1784 | 1787 | rBV  | 3316667 | 3454827  | 31.37%  | 2.167% |
| 65 | 12.621 | 1788 | 1791 | 1793 | rBV2 | 348086  | 361868   | 3.29%   | 0.227% |
| 66 | 12.668 | 1796 | 1799 | 1803 | rVB  | 795709  | 812359   | 7.38%   | 0.510% |
| 67 | 12.727 | 1805 | 1809 | 1818 | rVB2 | 823775  | 1139974  | 10.35%  | 0.715% |
| 68 | 12.821 | 1818 | 1825 | 1829 | rBV  | 4836736 | 6103293  | 55.42%  | 3.829% |
| 69 | 12.951 | 1844 | 1847 | 1854 | rVB  | 1360621 | 1447504  | 13.14%  | 0.908% |
| 70 | 13.027 | 1856 | 1860 | 1863 | rBV2 | 773123  | 1010008  | 9.17%   | 0.634% |
| 71 | 13.115 | 1871 | 1875 | 1876 | rBV2 | 643141  | 749811   | 6.81%   | 0.470% |
| 72 | 13.139 | 1876 | 1879 | 1882 | rVB  | 1611550 | 1503160  | 13.65%  | 0.943% |
| 73 | 13.204 | 1887 | 1890 | 1893 | rVB  | 1038453 | 986755   | 8.96%   | 0.619% |
| 74 | 13.245 | 1893 | 1897 | 1901 | rBV2 | 1246677 | 1225148  | 11.12%  | 0.769% |
| 75 | 13.333 | 1909 | 1912 | 1915 | rVB  | 968818  | 834568   | 7.58%   | 0.524% |
| 76 | 13.368 | 1915 | 1918 | 1921 | rVB  | 1223898 | 1095230  | 9.95%   | 0.687% |

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 Sample : 05253-02  
 Misc :  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 L-6(0-5)

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:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 13.763 | 1978 | 1985 | 1987 | rBV  | 1196670 | 1428138 | 12.97% | 0.896% |
| 78  | 13.786 | 1987 | 1989 | 1992 | rVV  | 685111  | 657974  | 5.97%  | 0.413% |
| 79  | 13.927 | 2010 | 2013 | 2020 | rVB  | 474140  | 567231  | 5.15%  | 0.356% |
| 80  | 14.010 | 2021 | 2027 | 2030 | rBV2 | 2611163 | 3700736 | 33.60% | 2.322% |
| 81  | 14.045 | 2030 | 2033 | 2038 | rVB  | 2462369 | 2571105 | 23.35% | 1.613% |
| 82  | 14.157 | 2047 | 2052 | 2054 | rBV3 | 300916  | 477743  | 4.34%  | 0.300% |
| 83  | 14.268 | 2063 | 2071 | 2078 | rVB3 | 481138  | 881517  | 8.00%  | 0.553% |
| 84  | 14.333 | 2078 | 2082 | 2085 | rVV3 | 257560  | 354940  | 3.22%  | 0.223% |
| 85  | 14.404 | 2089 | 2094 | 2097 | rVV  | 1160305 | 1544407 | 14.02% | 0.969% |
| 86  | 14.439 | 2097 | 2100 | 2102 | rVV  | 732870  | 681450  | 6.19%  | 0.428% |
| 87  | 14.474 | 2102 | 2106 | 2107 | rVV3 | 354527  | 449814  | 4.08%  | 0.282% |
| 88  | 14.498 | 2107 | 2110 | 2113 | rVV2 | 732294  | 854040  | 7.76%  | 0.536% |
| 89  | 14.533 | 2113 | 2116 | 2117 | rVV  | 618027  | 660316  | 6.00%  | 0.414% |
| 90  | 14.551 | 2117 | 2119 | 2122 | rVV2 | 755694  | 643131  | 5.84%  | 0.403% |
| 91  | 14.598 | 2123 | 2127 | 2130 | rVV2 | 338493  | 472606  | 4.29%  | 0.296% |
| 92  | 14.968 | 2186 | 2190 | 2201 | rVB6 | 215793  | 396323  | 3.60%  | 0.249% |
| 93  | 15.074 | 2202 | 2208 | 2214 | rBV  | 1092540 | 2342749 | 21.27% | 1.470% |
| 94  | 15.174 | 2221 | 2225 | 2230 | rVB  | 389083  | 474345  | 4.31%  | 0.298% |
| 95  | 15.380 | 2255 | 2260 | 2264 | rBV  | 891758  | 1133237 | 10.29% | 0.711% |
| 96  | 15.451 | 2266 | 2272 | 2276 | rBV  | 1474242 | 1981950 | 18.00% | 1.243% |
| 97  | 15.504 | 2276 | 2281 | 2284 | rBV2 | 381493  | 489632  | 4.45%  | 0.307% |
| 98  | 16.086 | 2376 | 2380 | 2389 | rVB3 | 220939  | 375082  | 3.41%  | 0.235% |
| 99  | 17.021 | 2532 | 2539 | 2547 | rVB2 | 333412  | 713446  | 6.48%  | 0.448% |
| 100 | 17.480 | 2609 | 2617 | 2624 | rBV2 | 287746  | 627743  | 5.70%  | 0.394% |

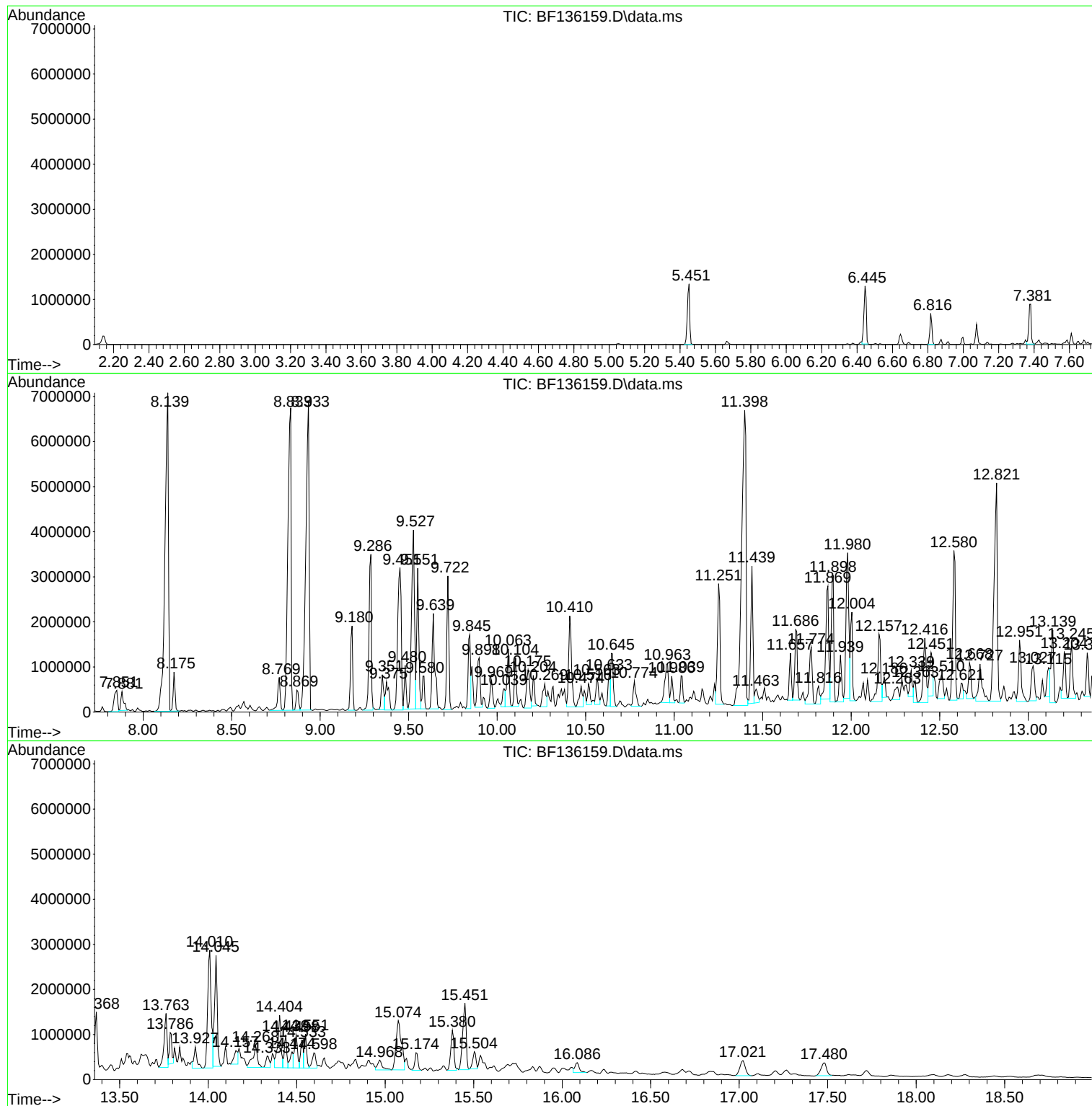
Sum of corrected areas: 159399276

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ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

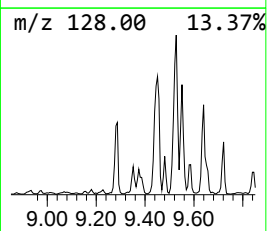
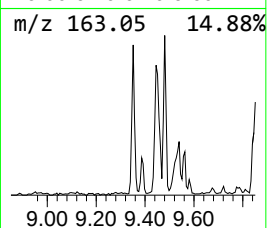
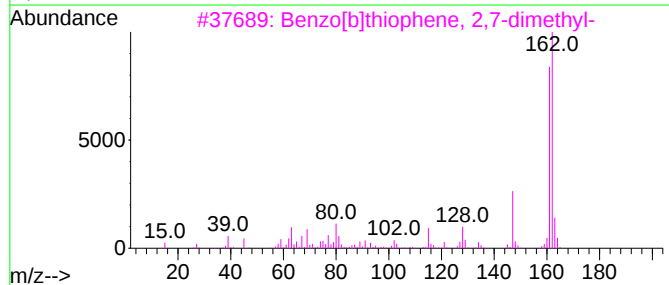
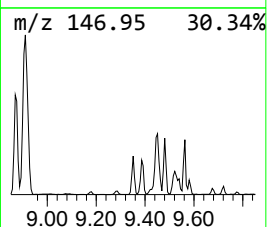
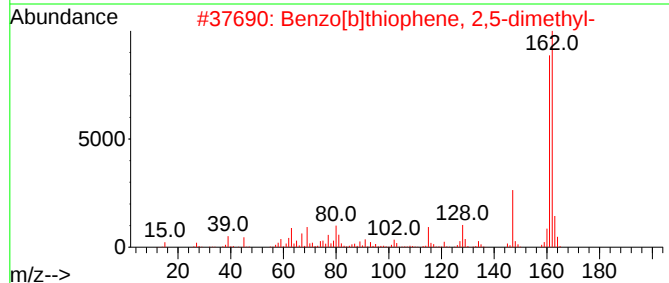
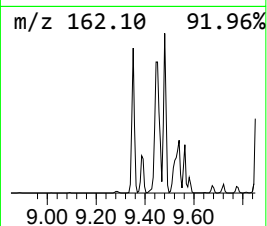
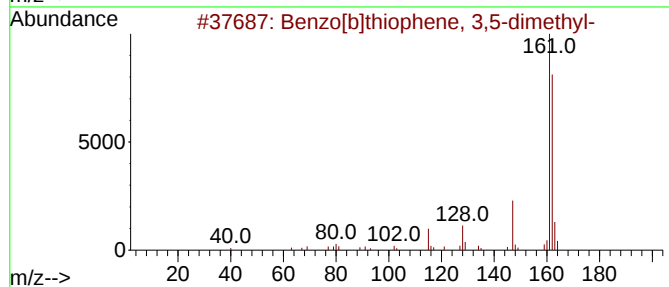
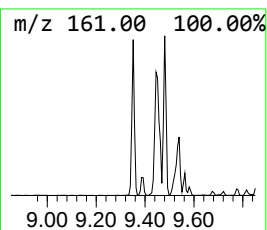
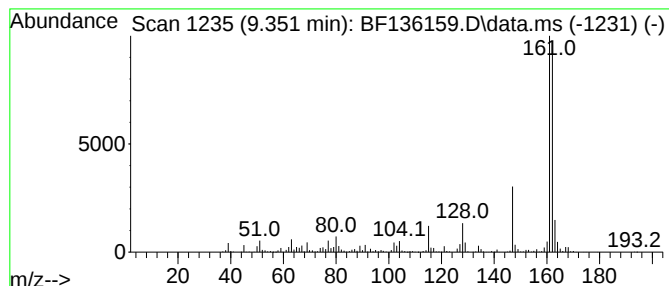
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Benzo[b]thiophene, 3,5-dime... Concentration Rank 11

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.351 | 9.31 ng | 731379 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Benzo[b]thiophene, 3,5-dimethyl-    | 162 | C10H10S | 001964-45-0  | 97   |
| 2    |    |   | Benzo[b]thiophene, 2,5-dimethyl-    | 162 | C10H10S | 016587-48-7  | 94   |
| 3    |    |   | Benzo[b]thiophene, 2,7-dimethyl-    | 162 | C10H10S | 016587-40-9  | 89   |
| 4    |    |   | Benzo[b]thiophene, 3,6-dimethyl-    | 162 | C10H10S | 016587-50-1  | 86   |
| 5    |    |   | 2,5-Dimethylthiophene-3,4-dicarb... | 162 | C8H6N2S | 1000305-40-9 | 78   |



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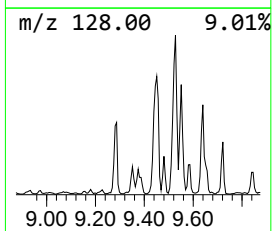
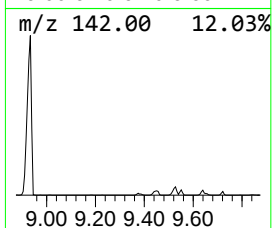
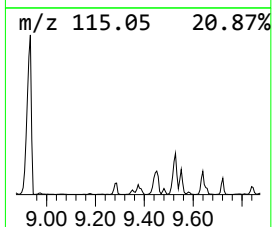
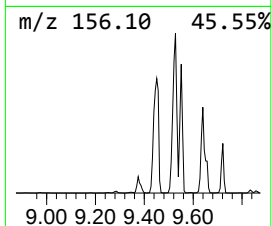
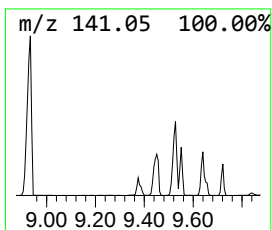
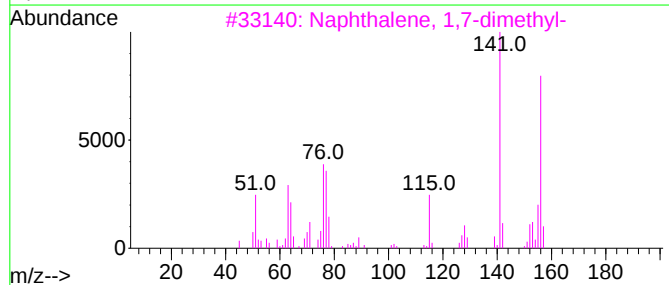
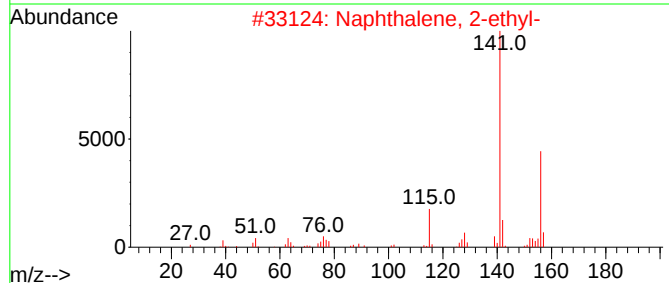
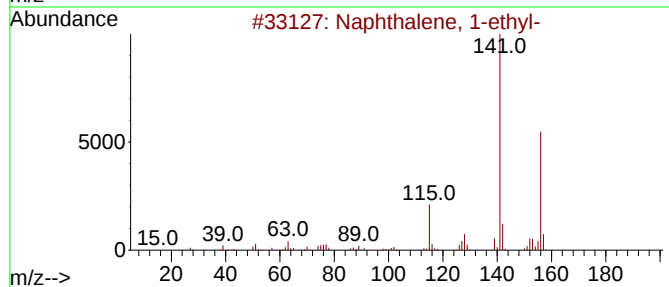
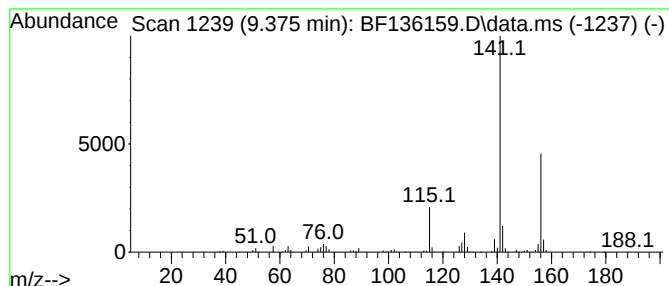
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Naphthalene, 1-ethyl- Concentration Rank 10

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.375 | 10.23 ng | 803961 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1-ethyl-               | 156 | C12H12  | 001127-76-0 | 95   |
| 2    |    |   | Naphthalene, 2-ethyl-               | 156 | C12H12  | 000939-27-5 | 94   |
| 3    |    |   | Naphthalene, 1,7-dimethyl-          | 156 | C12H12  | 000575-37-1 | 78   |
| 4    |    |   | 2-Thiophenecarboxylic acid, 5-et... | 156 | C7H8O2S | 023229-72-3 | 64   |
| 5    |    |   | 3',4'-Difluoroacetophenone          | 156 | C8H6F2O | 000369-33-5 | 59   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

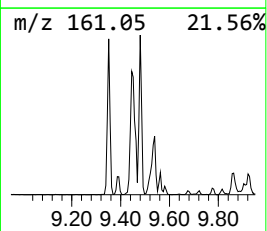
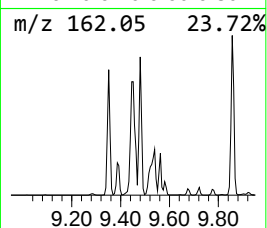
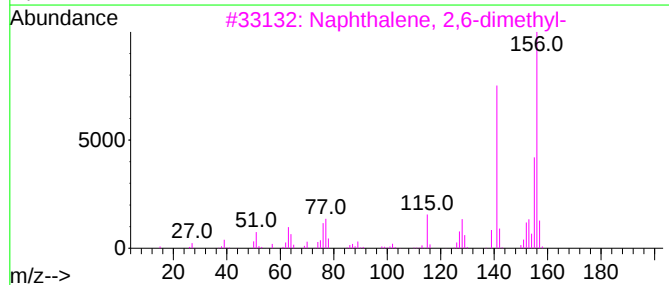
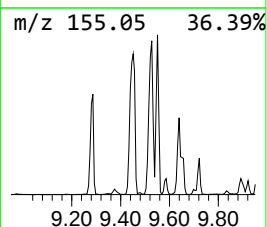
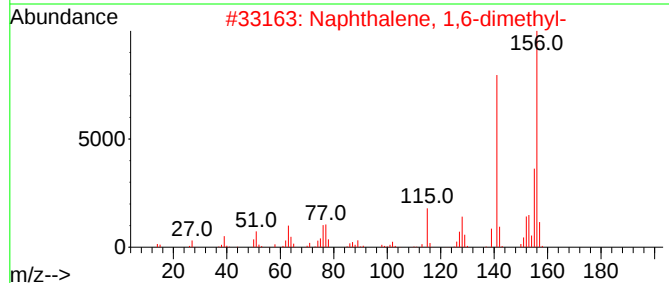
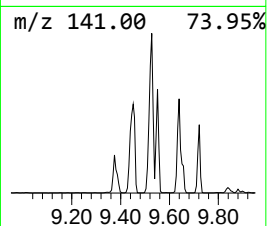
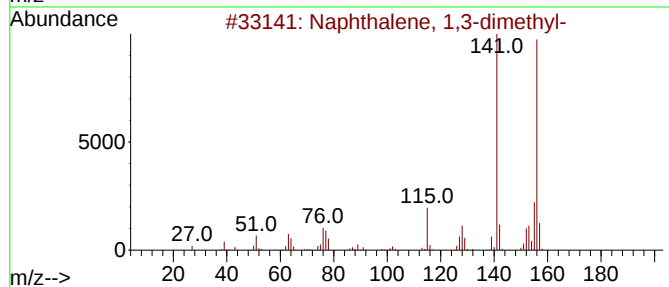
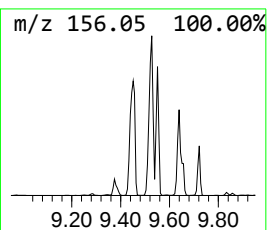
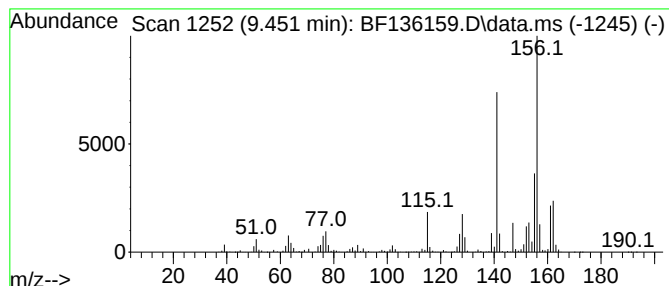
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Naphthalene, 1,3-dimethyl- Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.451 | 55.99 ng | 4400360 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 2    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 3    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 96   |
| 4    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 5    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

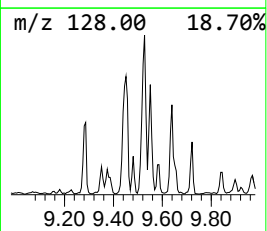
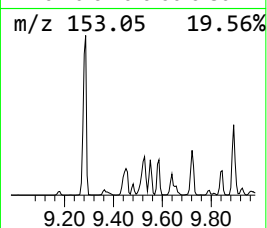
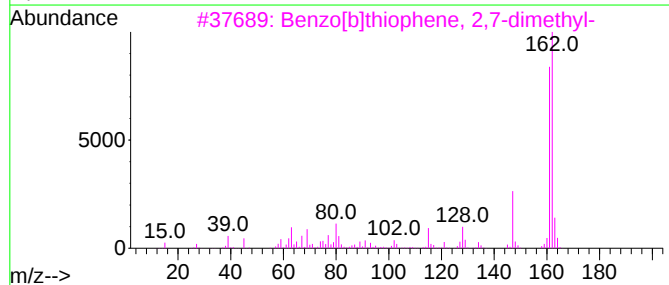
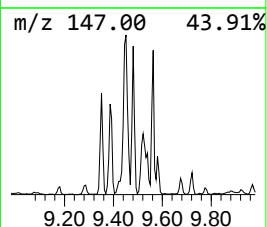
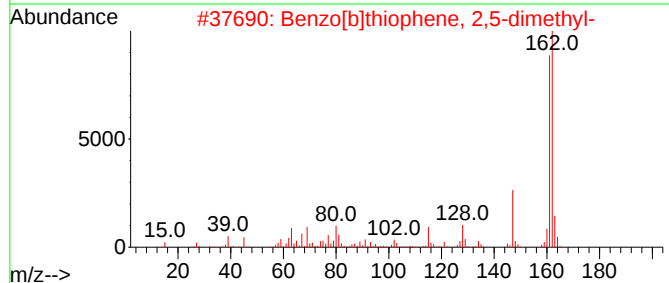
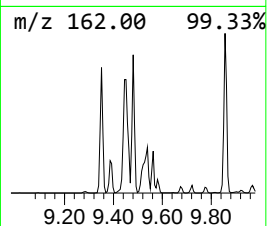
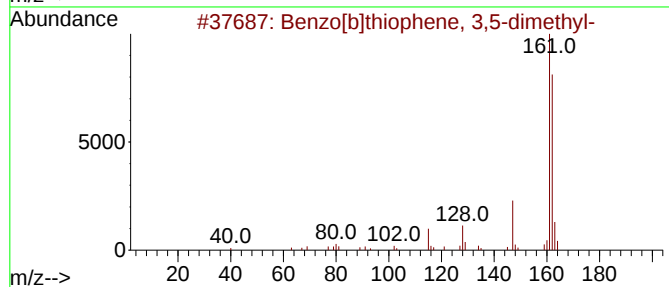
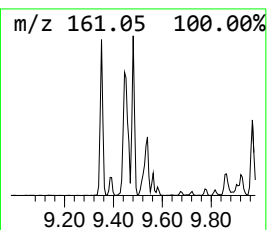
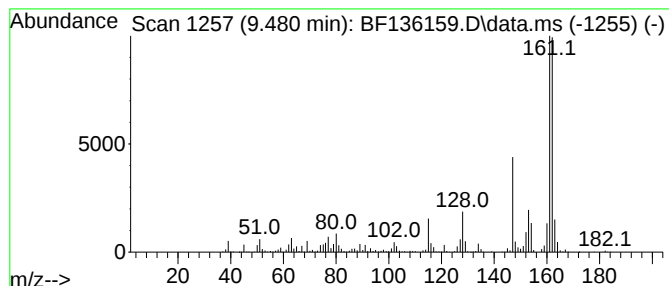
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TIC Integration Parameters: LSCINT.P

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Peak Number 4 Benzo[b]thiophene, 2,5-dime... Concentration Rank 12

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.480 | 8.79 ng | 690822 | Acenaphthene-d10 | 9.857 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|------|-------------------------------------|-----|----------|--------------|------|
| 1    |      | Benzo[b]thiophene, 3,5-dimethyl-    | 162 | C10H10S  | 001964-45-0  | 90   |
| 2    |      | Benzo[b]thiophene, 2,5-dimethyl-    | 162 | C10H10S  | 016587-48-7  | 76   |
| 3    |      | Benzo[b]thiophene, 2,7-dimethyl-    | 162 | C10H10S  | 016587-40-9  | 74   |
| 4    |      | 2,5-Dimethylthiophene-3,4-dicarb... | 162 | C8H6N2S  | 1000305-40-9 | 64   |
| 5    |      | 5,8-Dimethyl-1,2,3,4-tetrahydroq... | 162 | C10H14N2 | 066102-39-4  | 50   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

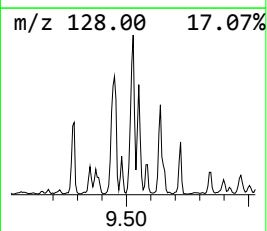
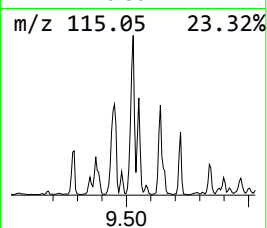
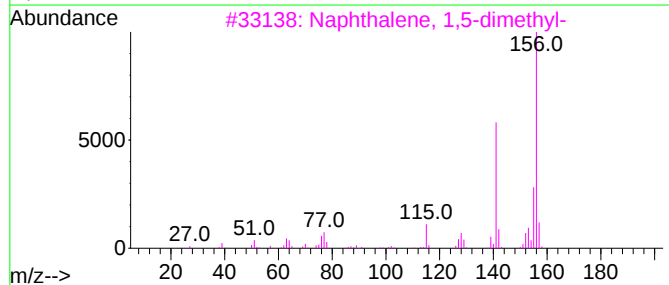
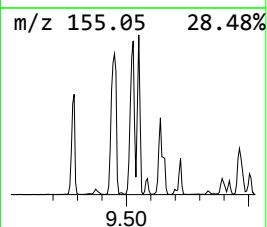
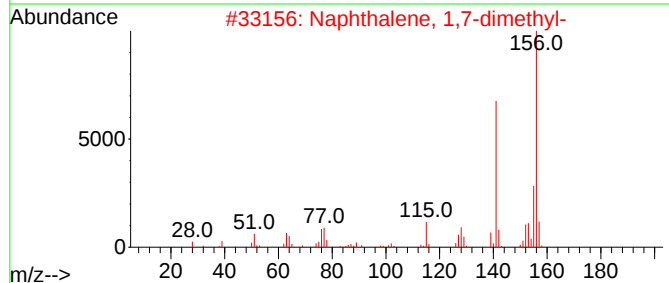
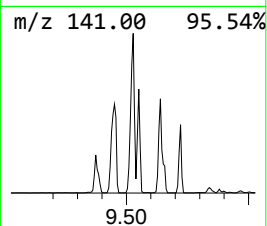
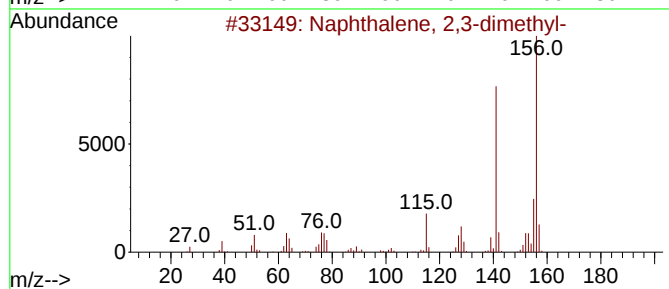
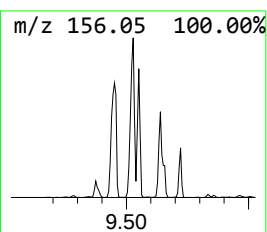
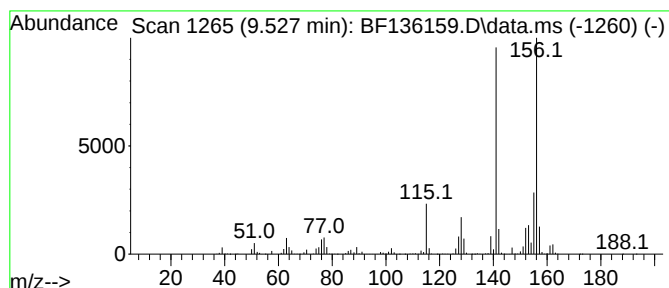
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Naphthalene, 2,3-dimethyl- Concentration Rank 1

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.527 | 58.05 ng | 4562520 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 3    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 4    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 97   |
| 5    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

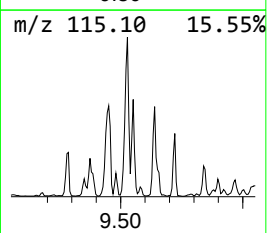
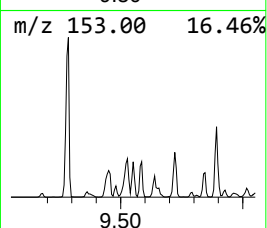
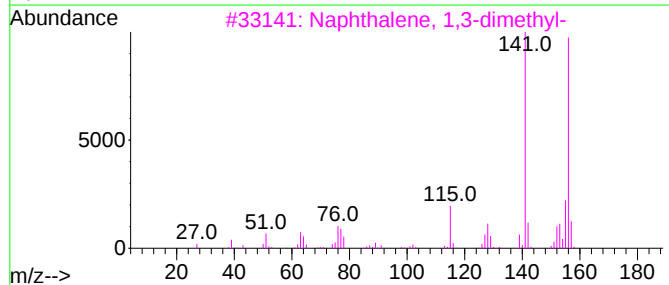
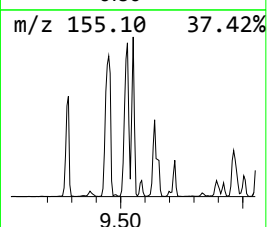
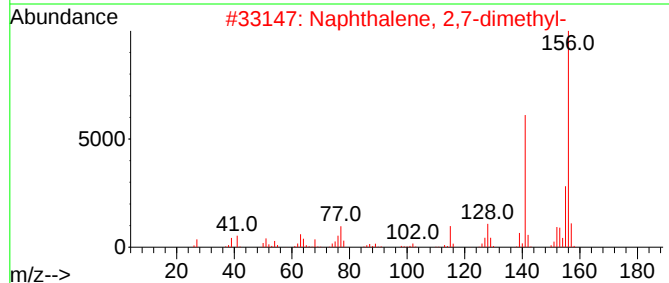
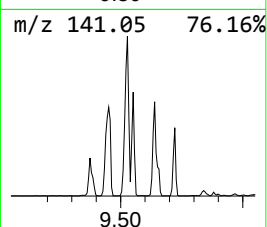
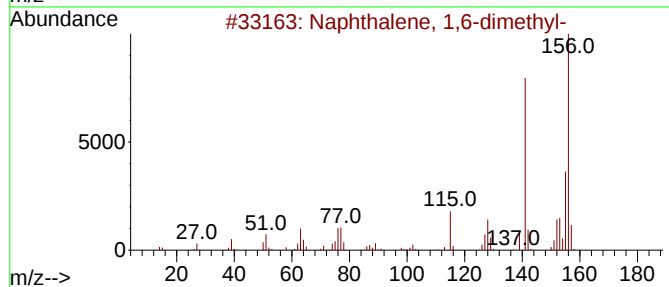
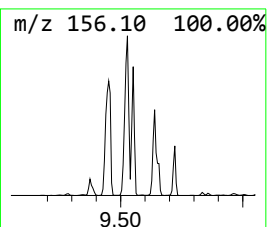
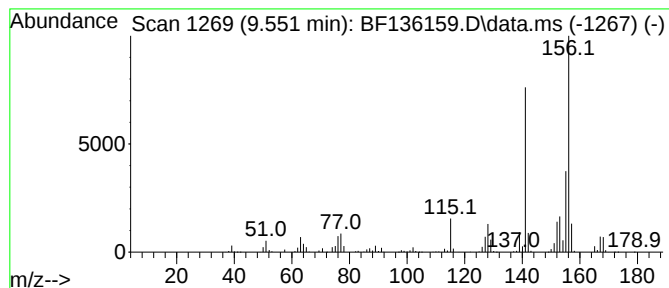
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Naphthalene, 1,6-dimethyl- Concentration Rank 4

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.551 | 32.08 ng | 2521350 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 2    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 4    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 96   |
| 5    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

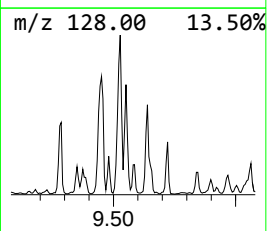
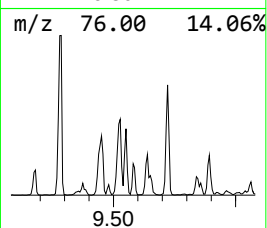
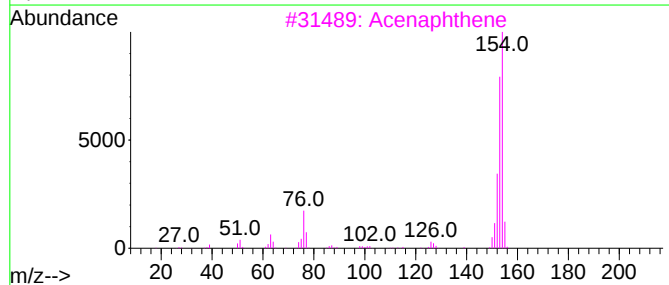
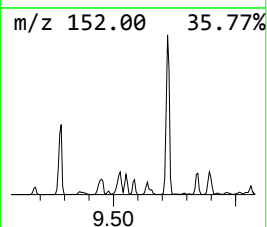
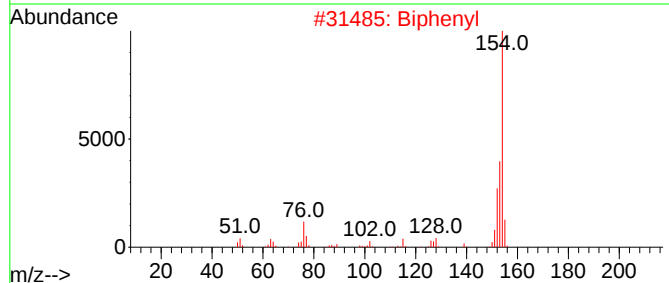
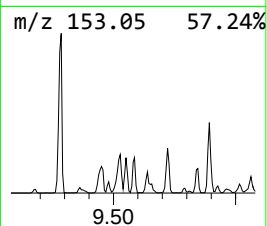
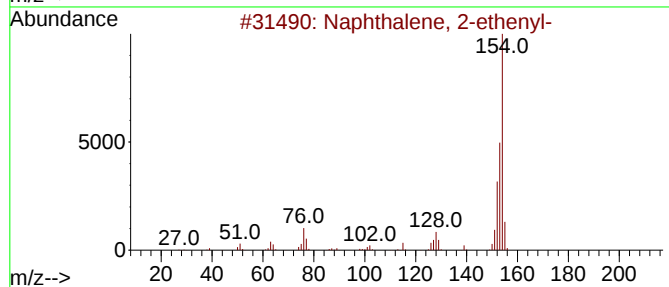
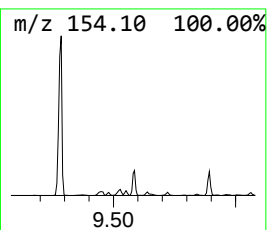
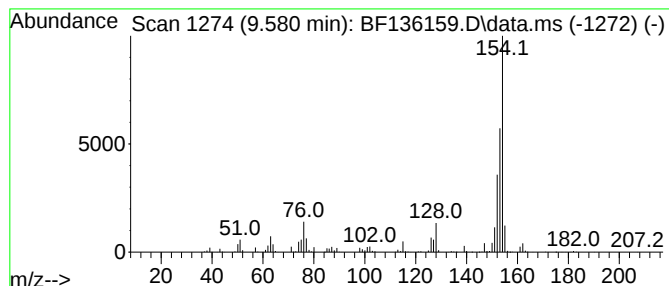
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Naphthalene, 2-ethenyl- Concentration Rank 17

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.580 | 8.10 ng | 636894 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-ethenyl-             | 154 | C12H10  | 000827-54-3 | 96   |
| 2    |    |   | Biphenyl                            | 154 | C12H10  | 000092-52-4 | 93   |
| 3    |    |   | Acenaphthene                        | 154 | C12H10  | 000083-32-9 | 81   |
| 4    |    |   | Propanedinitrile, (phenylmethyle... | 154 | C10H6N2 | 002700-22-3 | 43   |
| 5    |    |   | 1-Isoquinolinecarbonitrile          | 154 | C10H6N2 | 001198-30-7 | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

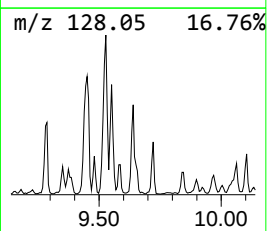
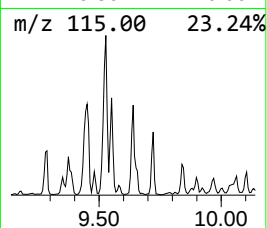
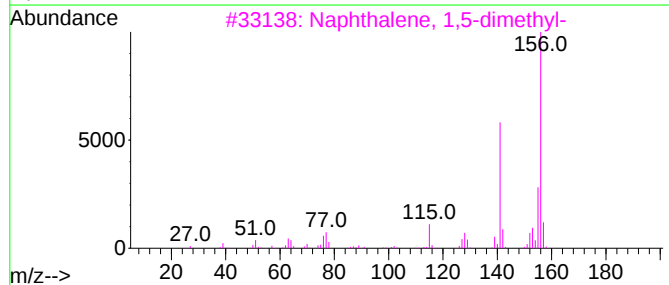
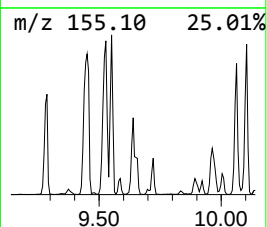
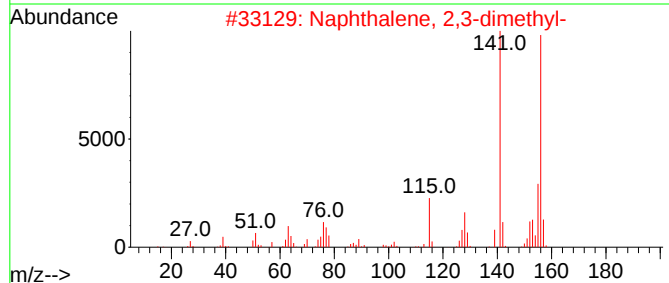
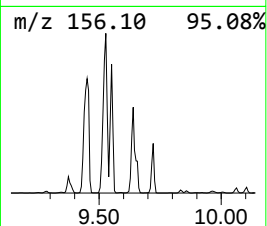
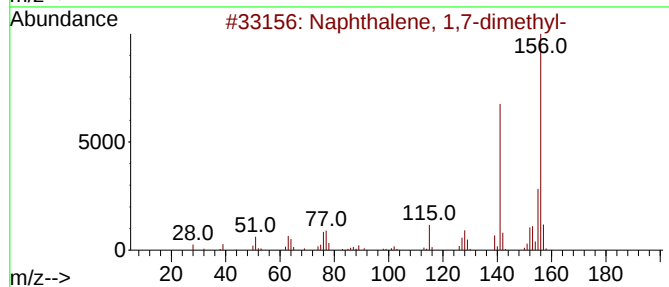
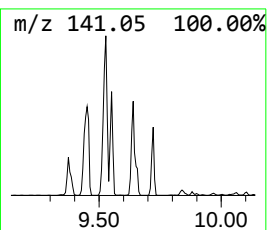
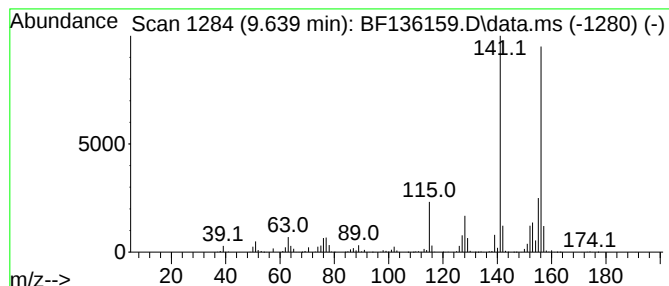
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Naphthalene, 1,7-dimethyl- Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.639 | 29.09 ng | 2286100 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 3    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 4    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 5    |    |   | Naphthalene, 1,8-dimethyl- | 156 | C12H12  | 000569-41-5 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

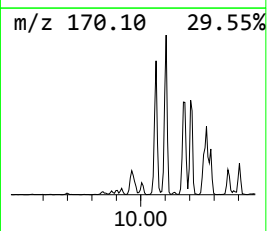
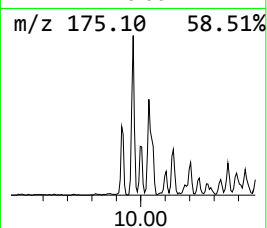
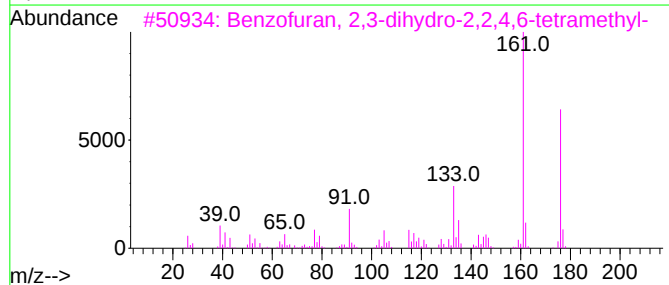
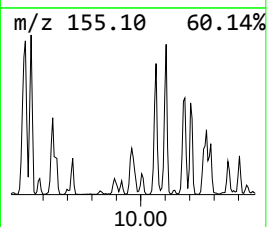
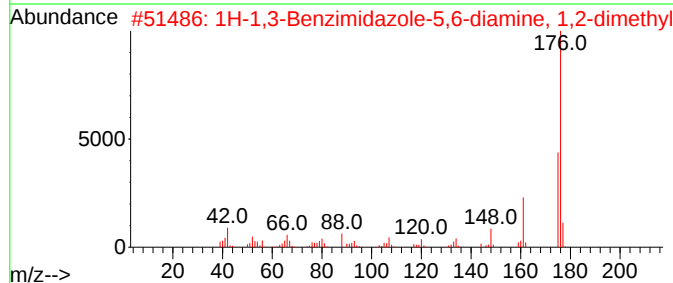
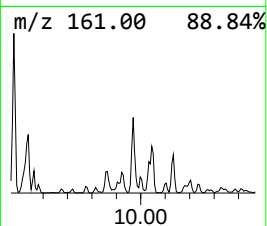
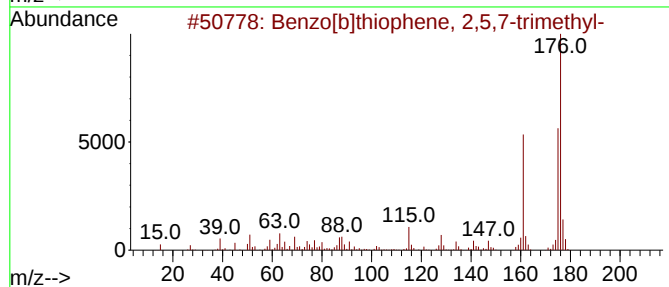
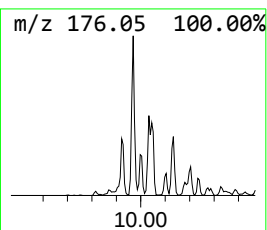
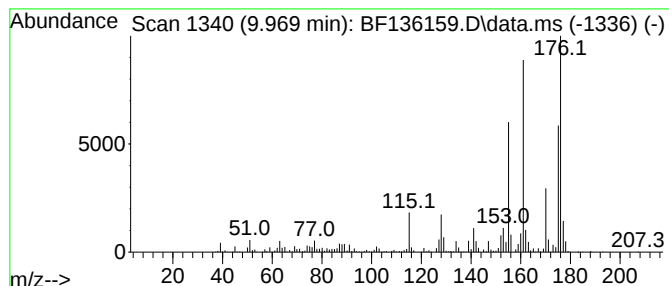
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Benzo[b]thiophene, 2,5,7-tr... Concentration Rank 15

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.969 | 8.23 ng | 646881 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|---------|--------------|------|
| 1    |    |   | Benzo[b]thiophene, 2,5,7-trimethyl- | 176 | C11H12S | 016587-65-8  | 70   |
| 2    |    |   | 1H-1,3-Benzimidazole-5,6-diamine... | 176 | C9H12N4 | 1000319-10-3 | 49   |
| 3    |    |   | Benzofuran, 2,3-dihydro-2,2,4,6-... | 176 | C12H16O | 003698-49-5  | 49   |
| 4    |    |   | Benzofuran, 2,3-dihydro-2,2,5,6-... | 176 | C12H16O | 063577-97-9  | 47   |
| 5    |    |   | 5H-Cyclopenta[b]pyridine-3-carbo... | 176 | C9H8N2S | 1000317-28-5 | 27   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

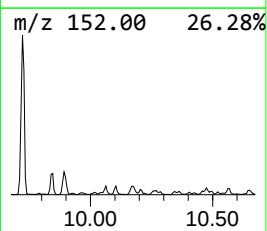
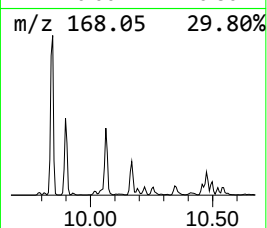
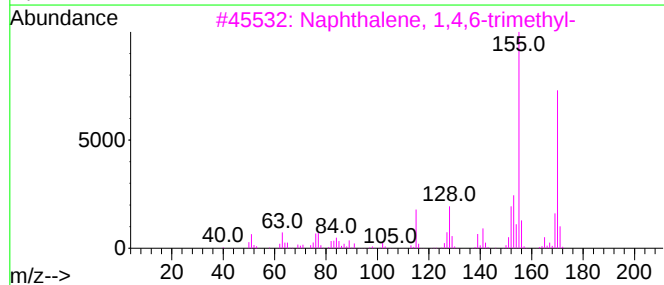
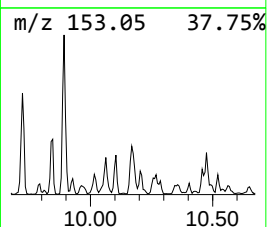
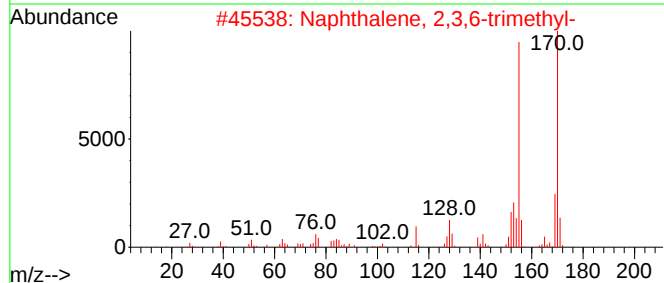
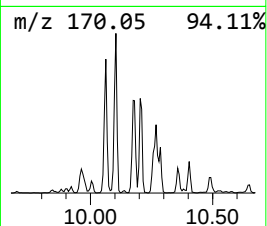
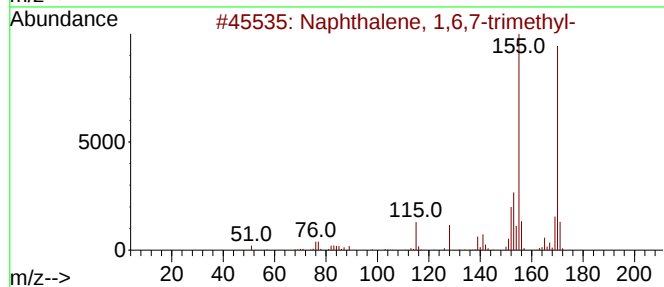
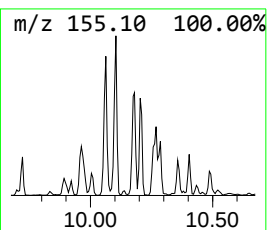
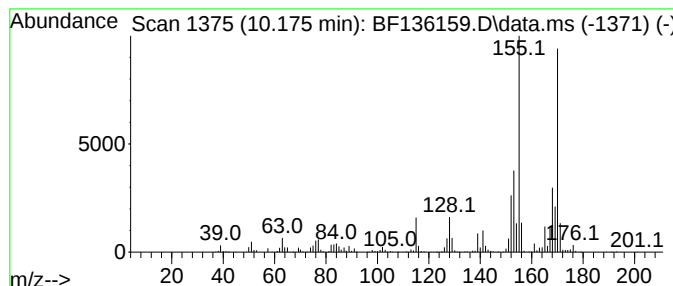
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 10 Naphthalene, 1,6,7-trimethyl- Concentration Rank 9

| R.T.   | EstConc  | Area    | Relative to ISTD | R.T.  |
|--------|----------|---------|------------------|-------|
| 10.175 | 13.77 ng | 1081930 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                  | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14  | 002245-38-7 | 98   |
| 2    |    |   | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14  | 000829-26-5 | 94   |
| 3    |    |   | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14  | 002131-42-2 | 94   |
| 4    |    |   | 4,6,8-Trimethylazulene        | 170 | C13H14  | 000941-81-1 | 90   |
| 5    |    |   | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14  | 002131-41-1 | 89   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

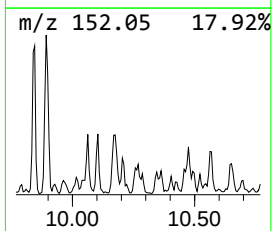
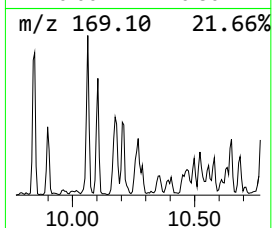
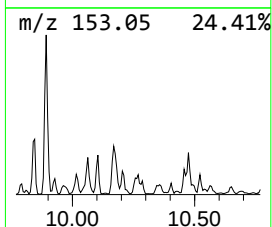
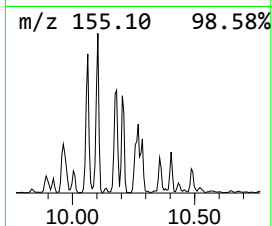
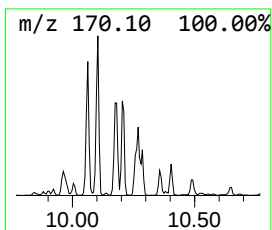
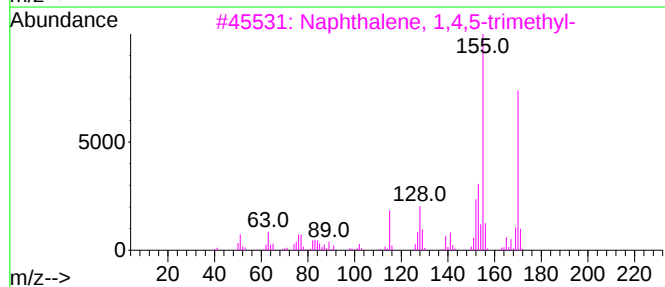
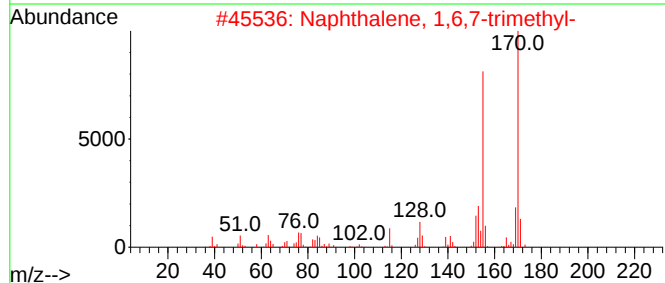
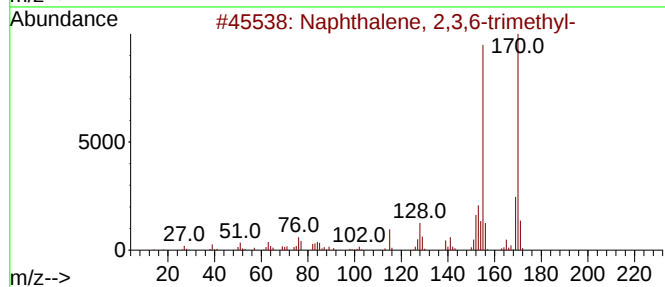
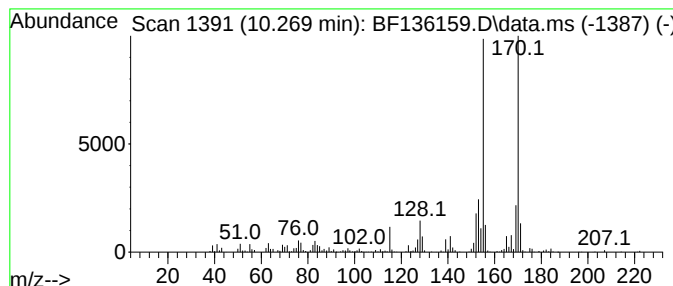
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 11 Naphthalene, 2,3,6-trimethyl- Concentration Rank 14

| R.T.      | EstConc                       | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------|--------|------------------|-------------|------|
| 10.269    | 8.33 ng                       | 654853 | Acenaphthene-d10 | 9.857       |      |
| Hit# of 5 | Tentative ID                  | MW     | MolForm          | CAS#        | Qual |
| 1         | Naphthalene, 2,3,6-trimethyl- | 170    | C13H14           | 000829-26-5 | 98   |
| 2         | Naphthalene, 1,6,7-trimethyl- | 170    | C13H14           | 002245-38-7 | 97   |
| 3         | Naphthalene, 1,4,5-trimethyl- | 170    | C13H14           | 002131-41-1 | 96   |
| 4         | Naphthalene, 1,4,6-trimethyl- | 170    | C13H14           | 002131-42-2 | 96   |
| 5         | 4,6,8-Trimethylazulene        | 170    | C13H14           | 000941-81-1 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

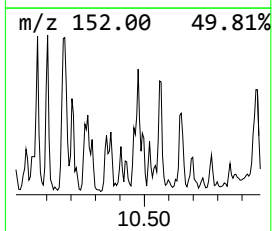
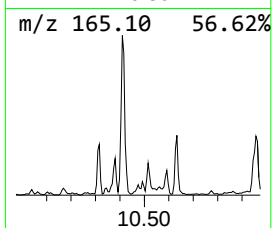
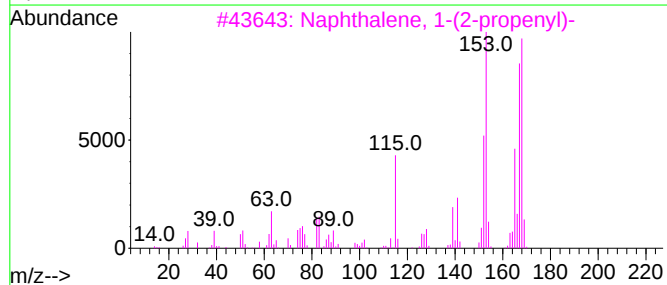
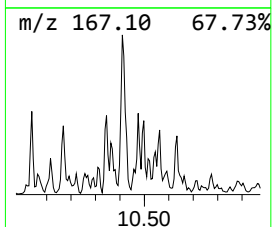
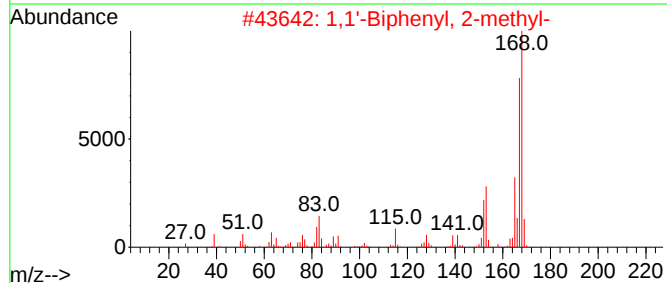
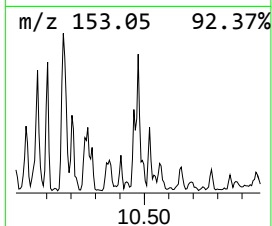
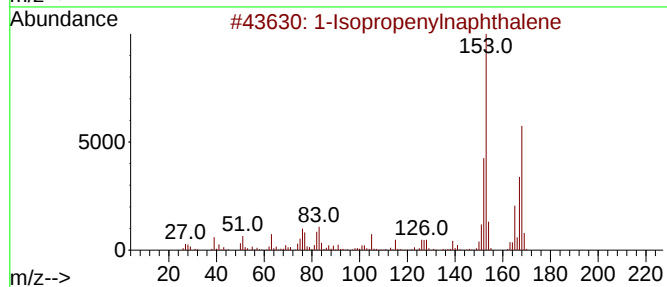
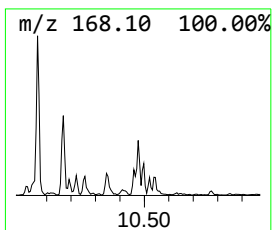
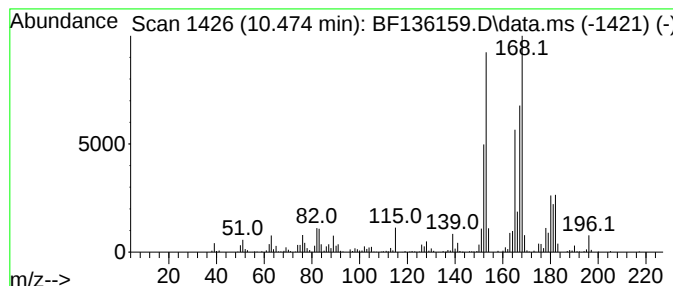
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 1-Isopropenylnaphthalene Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.  |
|--------|---------|--------|------------------|-------|
| 10.475 | 7.51 ng | 590035 | Acenaphthene-d10 | 9.857 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | 1-Isopropenylnaphthalene            | 168 | C13H12  | 001855-47-6 | 58   |
| 2    |    |   | 1,1'-Biphenyl, 2-methyl-            | 168 | C13H12  | 000643-58-3 | 55   |
| 3    |    |   | Naphthalene, 1-(2-propenyl)-        | 168 | C13H12  | 002489-86-3 | 52   |
| 4    |    |   | 2-Allylnaphthalene                  | 168 | C13H12  | 002489-87-4 | 46   |
| 5    |    |   | Benzene, [1-(2,4-cyclopentadien-... | 168 | C13H12  | 002320-32-3 | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

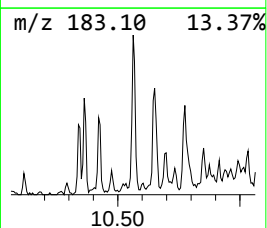
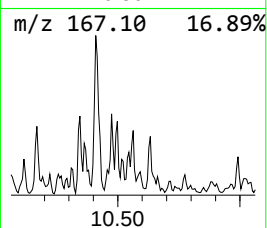
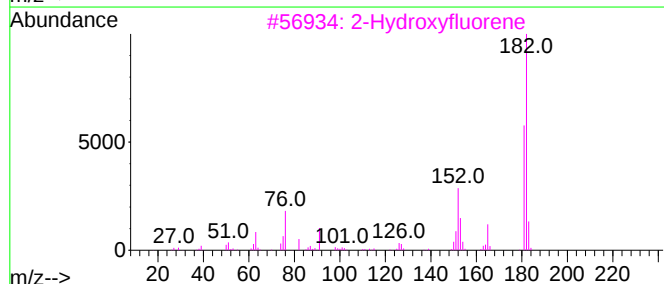
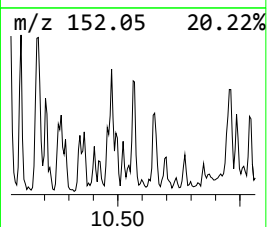
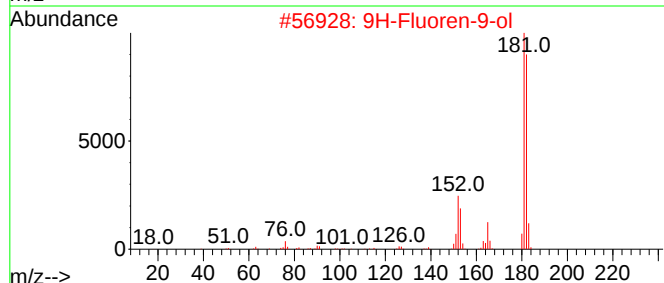
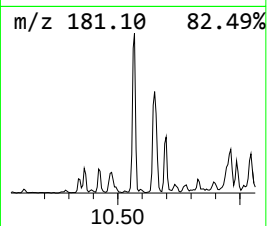
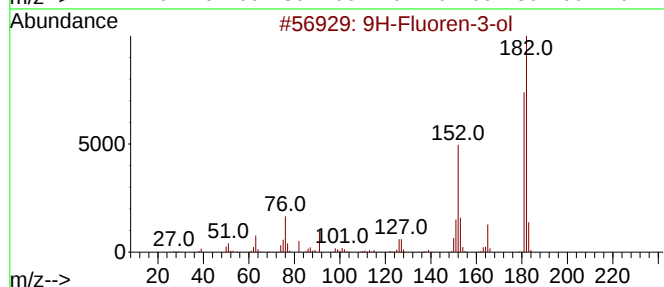
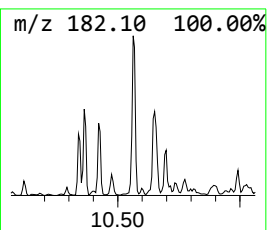
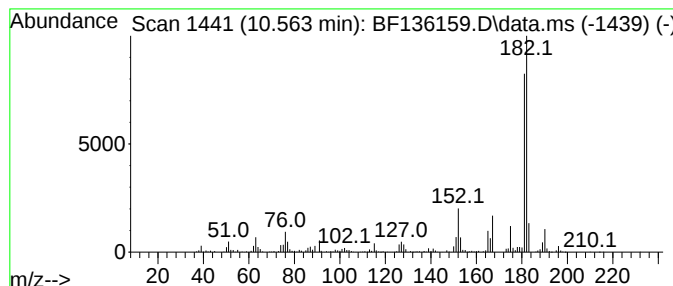
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BNA\_F  
ClientSampleId :  
L-6(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 13 9H-Fluoren-3-ol Concentration Rank 20

| R.T.      | EstConc                          | Area   | Relative to ISTD |         | R.T.        |      |
|-----------|----------------------------------|--------|------------------|---------|-------------|------|
| 10.563    | 7.07 ng                          | 555445 | Acenaphthene-d10 |         | 9.857       |      |
| Hit# of 5 | Tentative ID                     |        | MW               | MolForm | CAS#        | Qual |
| 1         | 9H-Fluoren-3-ol                  |        | 182              | C13H10O | 006344-67-8 | 87   |
| 2         | 9H-Fluoren-9-ol                  |        | 182              | C13H10O | 001689-64-1 | 80   |
| 3         | 2-Hydroxyfluorene                |        | 182              | C13H10O | 002443-58-5 | 80   |
| 4         | [1,1'-Biphenyl]-4-carboxaldehyde |        | 182              | C13H10O | 003218-36-8 | 74   |
| 5         | Dibenzofuran, 4-methyl-          |        | 182              | C13H10O | 007320-53-8 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

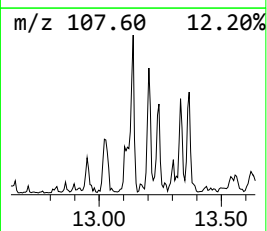
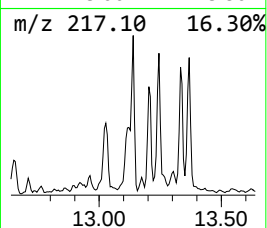
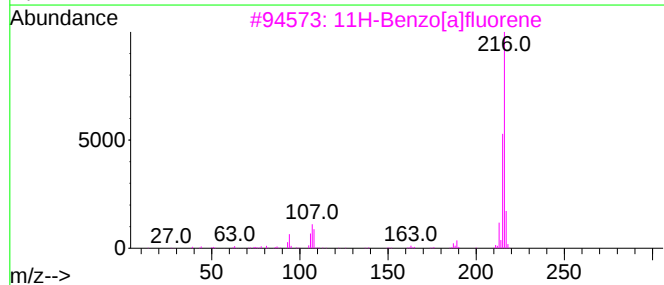
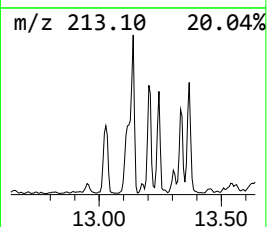
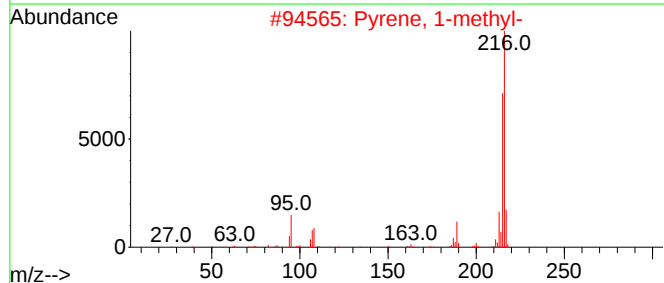
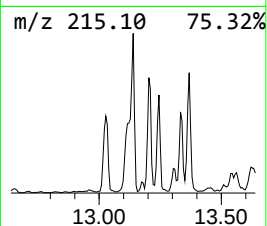
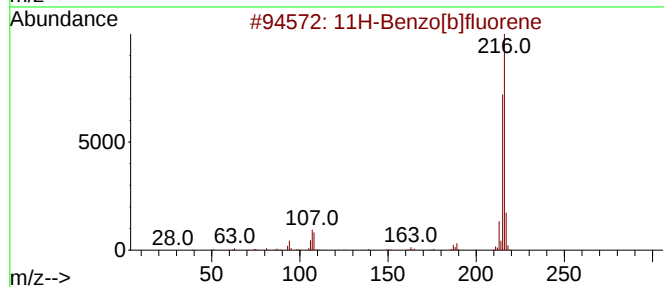
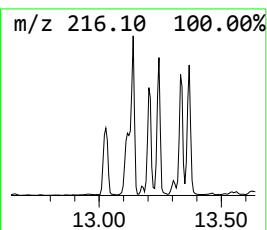
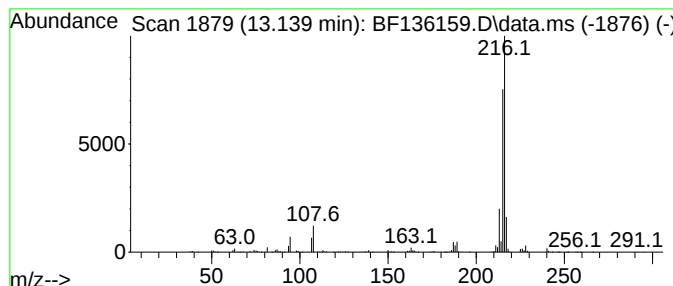
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ClientSampleId :  
L-6(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 11H-Benzo[b]fluorene Concentration Rank 16

| R.T.      | EstConc                 | Area    | Relative to ISTD | R.T.        |      |
|-----------|-------------------------|---------|------------------|-------------|------|
| 13.139    | 8.12 ng                 | 1503160 | Chrysene-d12     | 14.015      |      |
| Hit# of 5 | Tentative ID            | MW      | MolForm          | CAS#        | Qual |
| 1         | 11H-Benzo[b]fluorene    | 216     | C17H12           | 000243-17-4 | 97   |
| 2         | Pyrene, 1-methyl-       | 216     | C17H12           | 002381-21-7 | 94   |
| 3         | 11H-Benzo[a]fluorene    | 216     | C17H12           | 000238-84-6 | 90   |
| 4         | 7H-Benzo[c]fluorene     | 216     | C17H12           | 000205-12-9 | 87   |
| 5         | Fluoranthene, 2-methyl- | 216     | C17H12           | 033543-31-6 | 74   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

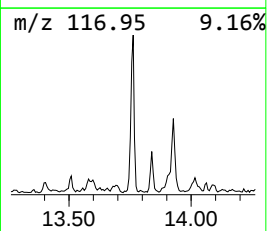
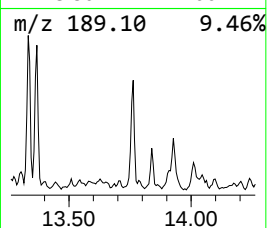
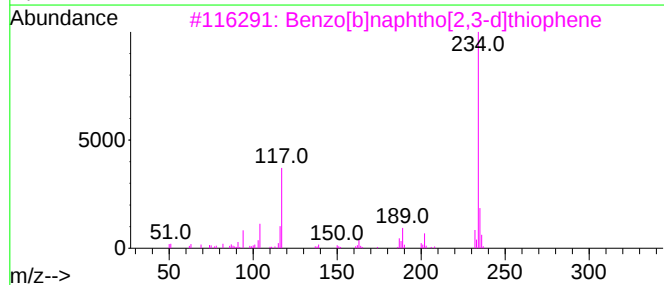
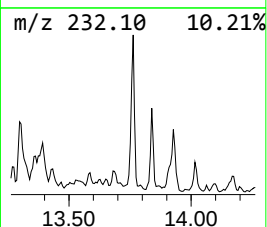
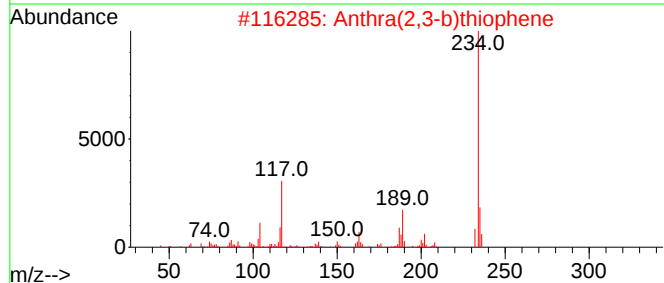
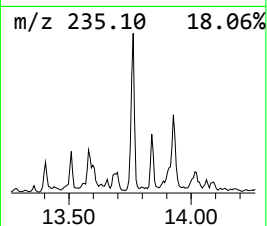
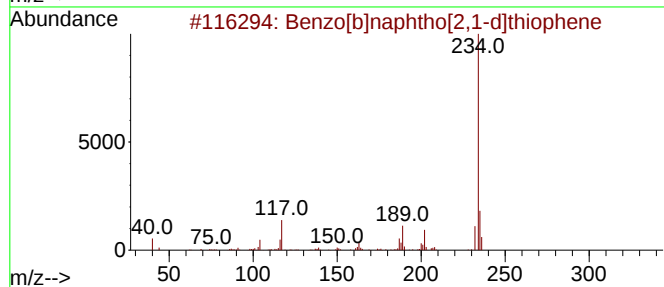
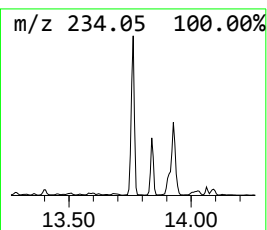
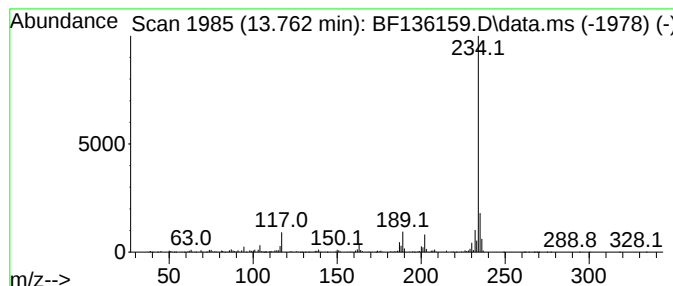
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 15 Benzo[b]naphtho[2,1-d]thiop... Concentration Rank 18

| R.T.      | EstConc                         | Area    | Relative to ISTD | R.T.        |      |
|-----------|---------------------------------|---------|------------------|-------------|------|
| 13.762    | 7.72 ng                         | 1428140 | Chrysene-d12     | 14.015      |      |
| Hit# of 5 | Tentative ID                    | MW      | MolForm          | CAS#        | Qual |
| 1         | Benzo[b]naphtho[2,1-d]thiophene | 234     | C16H10S          | 000239-35-0 | 96   |
| 2         | Anthra(2,3-b)thiophene          | 234     | C16H10S          | 022108-55-0 | 95   |
| 3         | Benzo[b]naphtho[2,3-d]thiophene | 234     | C16H10S          | 000243-46-9 | 94   |
| 4         | Benzo[b]naphtho[1,2-d]thiophene | 234     | C16H10S          | 000205-43-6 | 93   |
| 5         | Phenanthro(2,1-b)thiophene      | 234     | C16H10S          | 000219-25-0 | 72   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

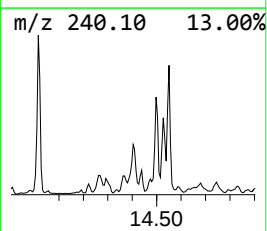
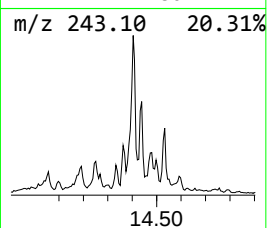
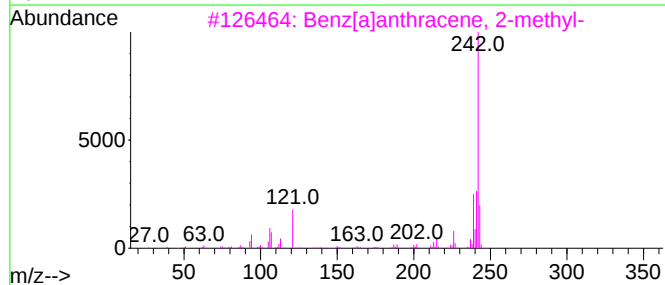
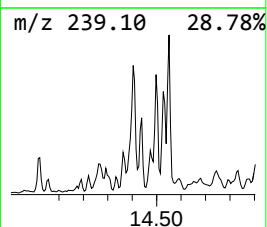
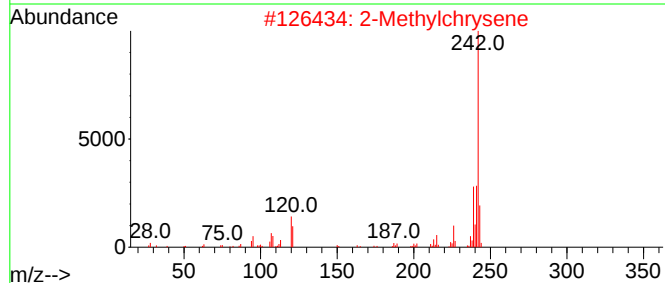
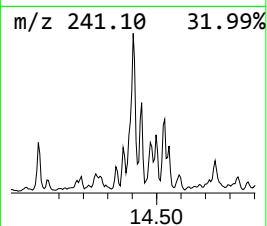
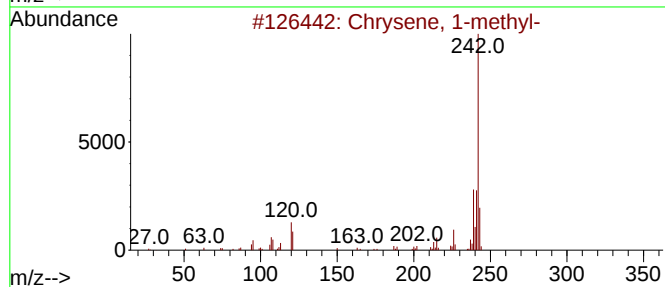
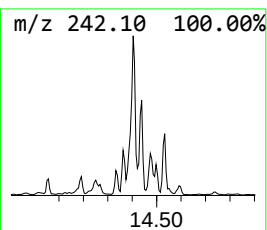
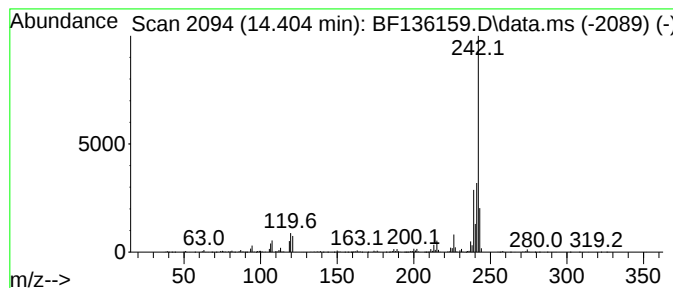
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Chrysene, 1-methyl- Concentration Rank 13

| R.T.   | EstConc | Area    | Relative to ISTD | R.T.   |
|--------|---------|---------|------------------|--------|
| 14.404 | 8.35 ng | 1544410 | Chrysene-d12     | 14.015 |

| Hit# | of | 5 | Tentative ID                 | MW  | MolForm | CAS#         | Qual |
|------|----|---|------------------------------|-----|---------|--------------|------|
| 1    |    |   | Chrysene, 1-methyl-          | 242 | C19H14  | 003351-28-8  | 98   |
| 2    |    |   | 2-Methylchrysene             | 242 | C19H14  | 003351-32-4  | 98   |
| 3    |    |   | Benz[a]anthracene, 2-methyl- | 242 | C19H14  | 002498-76-2  | 98   |
| 4    |    |   | 1H-Benz[f]indene, 2-phenyl-  | 242 | C19H14  | 1000305-22-4 | 96   |
| 5    |    |   | Triphenylene, 2-methyl-      | 242 | C19H14  | 001705-84-6  | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

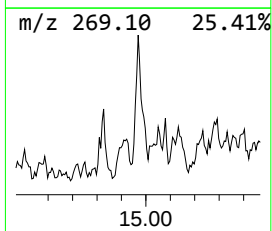
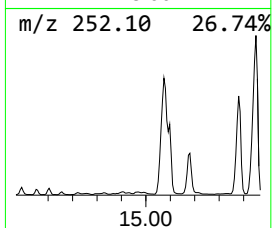
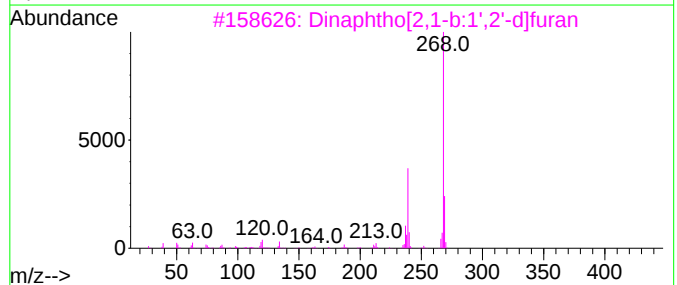
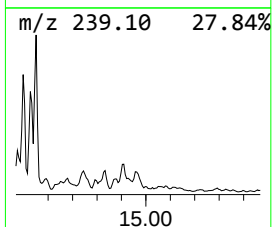
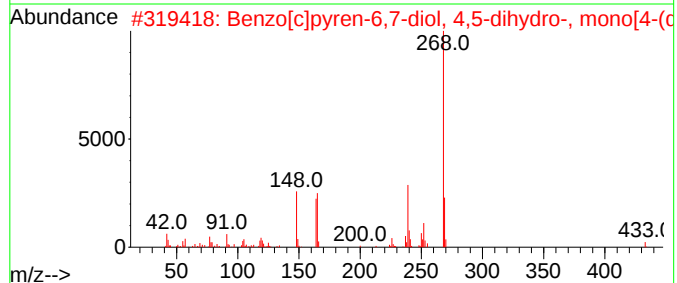
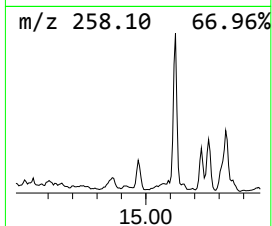
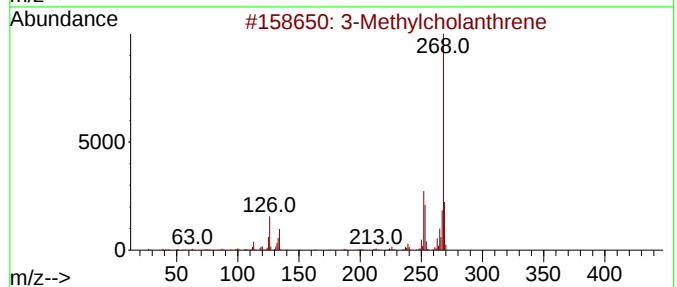
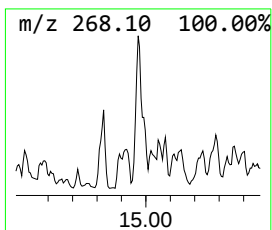
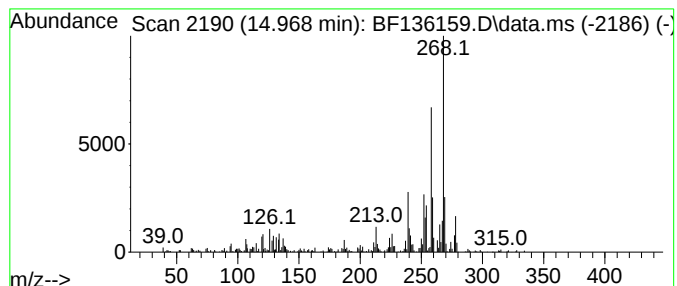
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 17 3-Methylcholanthrene Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 14.968 | 16.19 ng | 396323 | Perylene-d12     | 15.509 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|-----------|--------------|------|
| 1    |    |   | 3-Methylcholanthrene                | 268 | C21H16    | 000056-49-5  | 64   |
| 2    |    |   | Benzo[c]pyren-6,7-diol, 4,5-dihy... | 433 | C29H23NO3 | 1000124-59-9 | 46   |
| 3    |    |   | Dinaphtho[2,1-b:1',2'-d]furan       | 268 | C20H12O   | 000194-63-8  | 45   |
| 4    |    |   | Dinaphtho[1,2-b:1',2'-d]furan       | 268 | C20H12O   | 000207-93-2  | 43   |
| 5    |    |   | 4H-1-Benzopyran-4-one, 5-hydroxy... | 268 | C16H12O4  | 000520-28-5  | 43   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

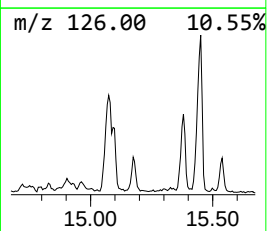
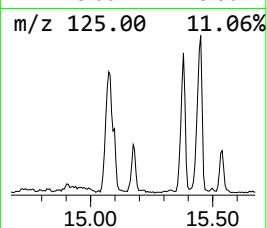
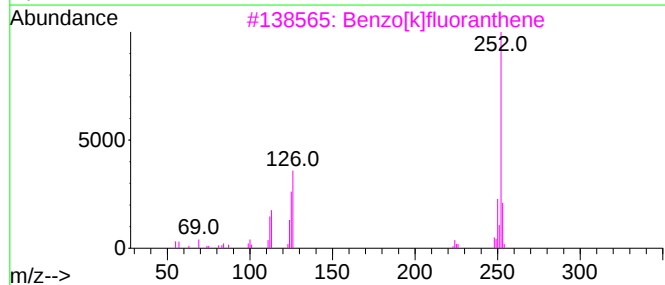
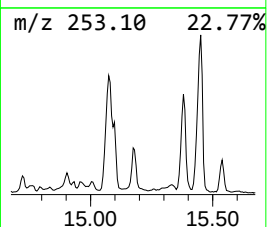
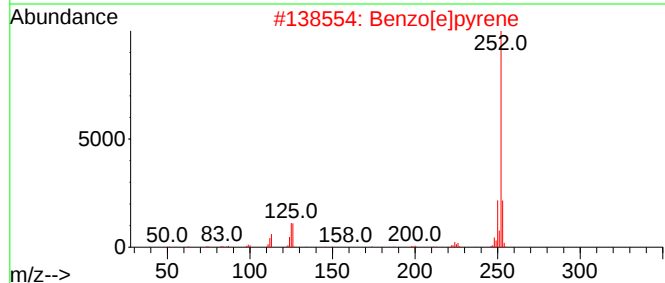
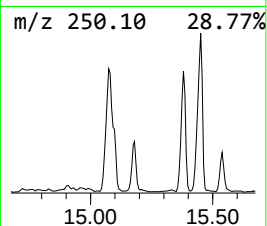
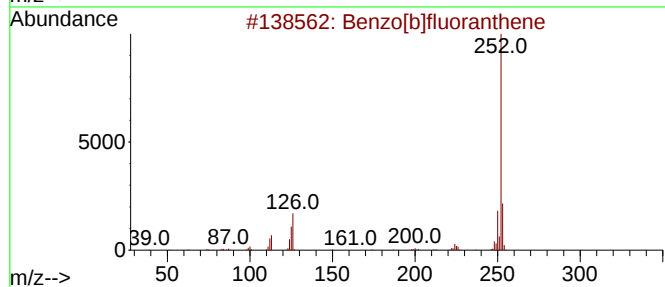
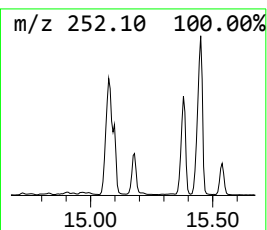
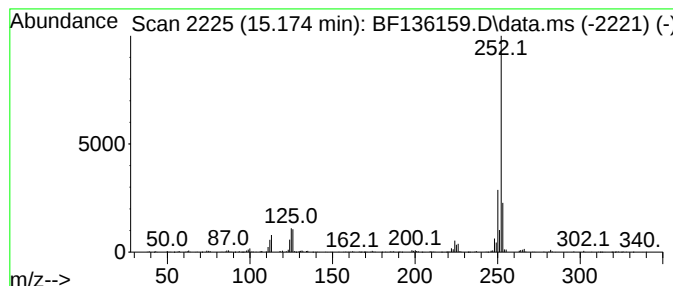
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Benzo[e]pyrene Concentration Rank 6

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 15.174 | 19.38 ng | 474345 | Perylene-d12     | 15.509 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 93   |
| 2    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 93   |
| 3    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 91   |
| 4    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 90   |
| 5    |    |   | Perylene             | 252 | C20H12  | 000198-55-0 | 81   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

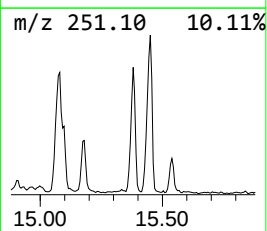
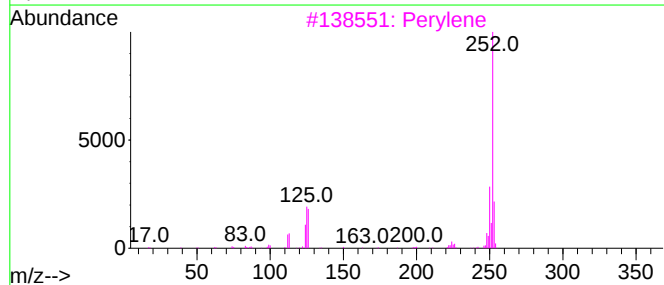
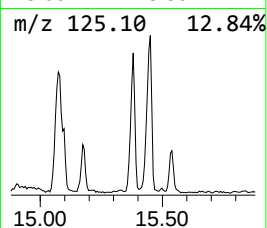
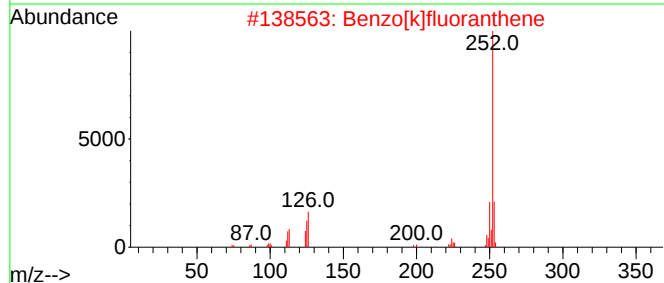
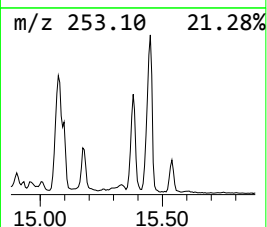
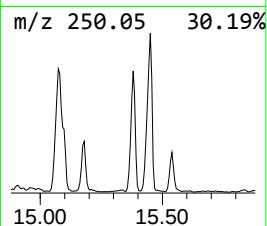
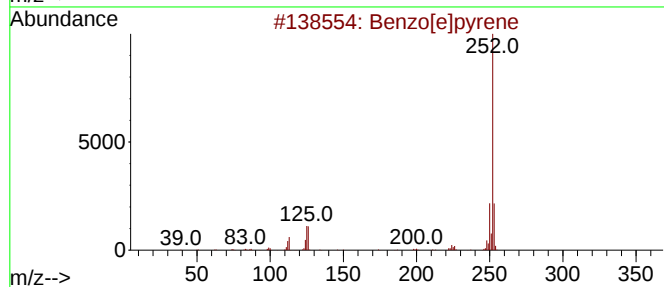
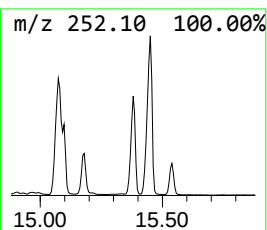
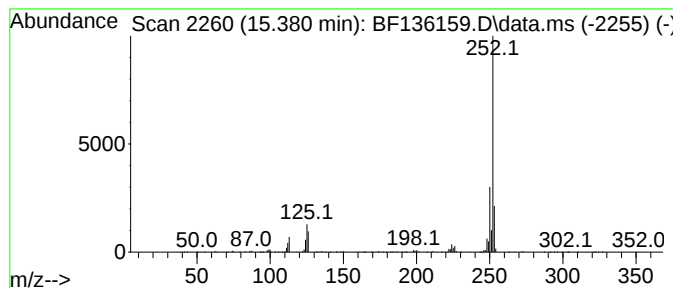
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST20.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.   |
|--------|----------|---------|------------------|--------|
| 15.380 | 46.29 ng | 1133240 | Perylene-d12     | 15.509 |

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



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

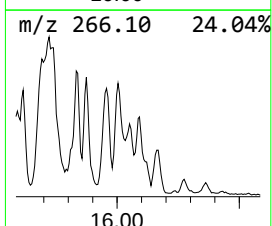
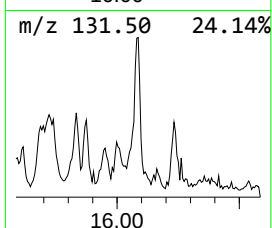
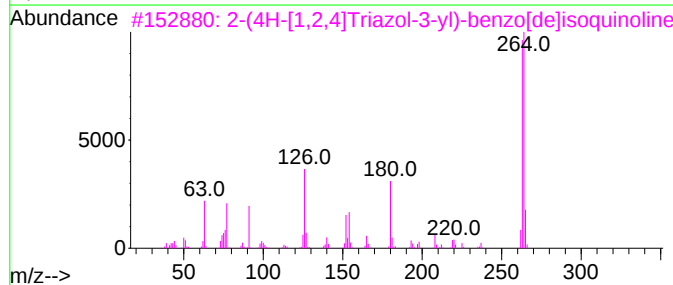
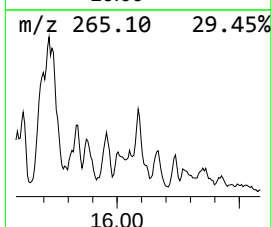
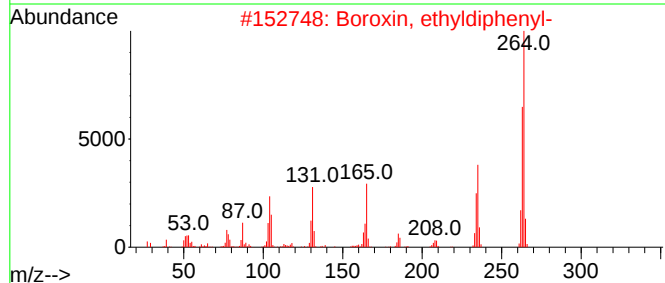
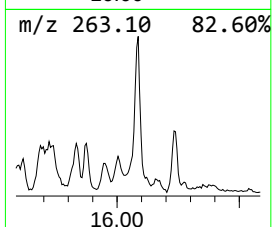
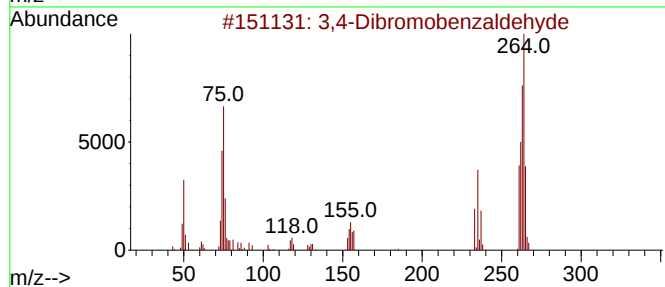
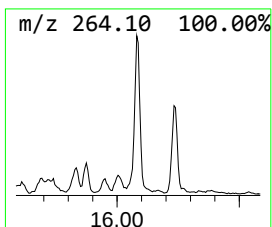
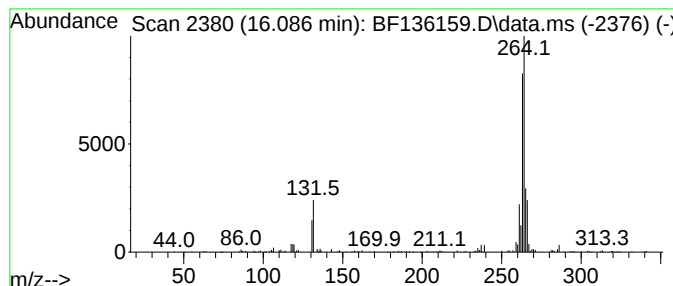
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 20 3,4-Dibromobenzaldehyde Concentration Rank 8

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 16.086 | 15.32 ng | 375082 | Perylene-d12     | 15.509 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm      | CAS#         | Qual |
|------|------|-------------------------------------|-----|--------------|--------------|------|
| 1    |      | 3,4-Dibromobenzaldehyde             | 262 | C7H4Br2O     | 074003-55-7  | 64   |
| 2    |      | Boroxin, ethyldiphenyl-             | 264 | C14H15B3O3   | 1000151-82-0 | 50   |
| 3    |      | 2-(4H-[1,2,4]Triazol-3-yl)-benzo... | 264 | C14H8N4O2    | 1000318-09-6 | 50   |
| 4    |      | 2-Bromo-5-fluorobenzyl alcohol, ... | 318 | C13H20BrFOSi | 1000364-15-6 | 27   |
| 5    |      | Iron, (.eta.-5-cyclopentadienyl)... | 264 | C16H16Fe     | 1000155-06-6 | 23   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF110623\  
Data File : BF136159.D  
Acq On : 06 Nov 2023 17:28  
Operator : CG\JU  
Sample : 05253-02  
Misc :  
ALS Vial : 12 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
L-6(0-5)

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF103023.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Benzo[b]thiophe... | 9.351  | 9.3     | ng    | 731379   | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 1-... | 9.375  | 10.2    | ng    | 803961   | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 1,... | 9.451  | 56.0    | ng    | 4400360  | 3                     | 9.857  | 1571930 | 20.0 |
| Benzo[b]thiophe... | 9.480  | 8.8     | ng    | 690822   | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 2,... | 9.527  | 58.0    | ng    | 4562520  | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 1,... | 9.551  | 32.1    | ng    | 2521350  | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 2-... | 9.580  | 8.1     | ng    | 636894   | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 1,... | 9.639  | 29.1    | ng    | 2286100  | 3                     | 9.857  | 1571930 | 20.0 |
| Benzo[b]thiophe... | 9.969  | 8.2     | ng    | 646881   | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 1,... | 10.175 | 13.8    | ng    | 1081930  | 3                     | 9.857  | 1571930 | 20.0 |
| Naphthalene, 2,... | 10.269 | 8.3     | ng    | 654853   | 3                     | 9.857  | 1571930 | 20.0 |
| 1-Isopropenylna... | 10.475 | 7.5     | ng    | 590035   | 3                     | 9.857  | 1571930 | 20.0 |
| 9H-Fluoren-3-ol    | 10.563 | 7.1     | ng    | 555445   | 3                     | 9.857  | 1571930 | 20.0 |
| 11H-Benzo[b]flu... | 13.139 | 8.1     | ng    | 1503160  | 5                     | 14.015 | 3700740 | 20.0 |
| Benzo[b]naphtho... | 13.762 | 7.7     | ng    | 1428140  | 5                     | 14.015 | 3700740 | 20.0 |
| Chrysene, 1-met... | 14.404 | 8.3     | ng    | 1544410  | 5                     | 14.015 | 3700740 | 20.0 |
| 3-Methylcholant... | 14.968 | 16.2    | ng    | 396323   | 6                     | 15.509 | 489632  | 20.0 |
| Benzo[e]pyrene     | 15.174 | 19.4    | ng    | 474345   | 6                     | 15.509 | 489632  | 20.0 |
| Perylene           | 15.380 | 46.3    | ng    | 1133240  | 6                     | 15.509 | 489632  | 20.0 |
| 3,4-Dibromobenz... | 16.086 | 15.3    | ng    | 375082   | 6                     | 15.509 | 489632  | 20.0 |