

Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
 Data File : BF128768.D  
 Acq On : 10 Jun 2022 19:45  
 Operator : CG\JU  
 Sample : N3203-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GATE-6-JET-GROUT-SPOILS

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-BF060222.M

Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC: BF128768.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         | 4.375       | 345           | 355         | 362          | rBV      | 360055         | 421691        | 6.77%           | 0.756%        |
| 2         | 5.045       | 458           | 469         | 472          | rVB      | 1916476        | 3740602       | 60.08%          | 6.709%        |
| 3         | 5.451       | 535           | 538         | 544          | rBV      | 154228         | 147574        | 2.37%           | 0.265%        |
| 4         | 6.457       | 706           | 709         | 716          | rBV      | 914152         | 817032        | 13.12%          | 1.465%        |
| 5         | 6.622       | 734           | 737         | 743          | rBV2     | 110548         | 124299        | 2.00%           | 0.223%        |
| 6         | 6.798       | 763           | 767         | 770          | rBV      | 491944         | 397758        | 6.39%           | 0.713%        |
| 7         | 6.981       | 794           | 798         | 801          | rVB      | 274076         | 244577        | 3.93%           | 0.439%        |
| 8         | 7.057       | 807           | 811         | 818          | rBV      | 103400         | 113869        | 1.83%           | 0.204%        |
| 9         | 7.369       | 855           | 864         | 867          | rBV      | 1201953        | 1246504       | 20.02%          | 2.236%        |
| 10        | 7.822       | 934           | 941         | 946          | rBV2     | 109032         | 180321        | 2.90%           | 0.323%        |
| 11        | 7.869       | 946           | 949         | 956          | rVB      | 90263          | 140676        | 2.26%           | 0.252%        |
| 12        | 8.116       | 976           | 991         | 994          | rBV      | 4914705        | 6226109       | 100.00%         | 11.166%       |
| 13        | 8.157       | 994           | 998         | 1004         | rVB      | 225300         | 189740        | 3.05%           | 0.340%        |
| 14        | 8.751       | 1095          | 1099        | 1102         | rVB      | 119348         | 108374        | 1.74%           | 0.194%        |
| 15        | 8.804       | 1102          | 1108        | 1111         | rVV      | 3734221        | 4179750       | 67.13%          | 7.496%        |
| 16        | 8.851       | 1111          | 1116        | 1119         | rVV2     | 103508         | 109622        | 1.76%           | 0.197%        |
| 17        | 8.904       | 1119          | 1125        | 1128         | rVB      | 3171245        | 3155684       | 50.68%          | 5.660%        |
| 18        | 9.163       | 1162          | 1169        | 1172         | rBV      | 2745174        | 2290445       | 36.79%          | 4.108%        |
| 19        | 9.263       | 1179          | 1186        | 1189         | rBV      | 571315         | 455076        | 7.31%           | 0.816%        |
| 20        | 9.333       | 1193          | 1198        | 1200         | rVV2     | 116631         | 140109        | 2.25%           | 0.251%        |
| 21        | 9.357       | 1200          | 1202        | 1208         | rVB      | 227419         | 261006        | 4.19%           | 0.468%        |
| 22        | 9.433       | 1208          | 1215        | 1218         | rBV      | 1048699        | 1442003       | 23.16%          | 2.586%        |
| 23        | 9.504       | 1222          | 1227        | 1229         | rVV      | 1447106        | 1583276       | 25.43%          | 2.840%        |
| 24        | 9.527       | 1229          | 1231        | 1235         | rVV      | 1022264        | 820605        | 13.18%          | 1.472%        |
| 25        | 9.563       | 1235          | 1237        | 1240         | rVV      | 104628         | 82637         | 1.33%           | 0.148%        |
| 26        | 9.616       | 1244          | 1246        | 1252         | rVB      | 667205         | 705878        | 11.34%          | 1.266%        |
| 27        | 9.698       | 1257          | 1260        | 1264         | rVV      | 642409         | 563713        | 9.05%           | 1.011%        |
| 28        | 9.822       | 1278          | 1281        | 1282         | rBV      | 388723         | 294556        | 4.73%           | 0.528%        |
| 29        | 9.839       | 1282          | 1284        | 1287         | rVV      | 672507         | 592889        | 9.52%           | 1.063%        |
| 30        | 9.874       | 1287          | 1290        | 1293         | rVB      | 1406534        | 1148396       | 18.44%          | 2.060%        |
| 31        | 9.945       | 1299          | 1302        | 1303         | rBV      | 115545         | 119230        | 1.92%           | 0.214%        |
| 32        | 9.963       | 1303          | 1305        | 1307         | rVB      | 122147         | 100000        | 1.61%           | 0.179%        |
| 33        | 10.045      | 1315          | 1319        | 1322         | rVB      | 311470         | 313489        | 5.04%           | 0.562%        |
| 34        | 10.080      | 1322          | 1325        | 1329         | rBV      | 303098         | 250693        | 4.03%           | 0.450%        |
| 35        | 10.157      | 1333          | 1338        | 1340         | rBV2     | 219686         | 235658        | 3.78%           | 0.423%        |
| 36        | 10.186      | 1340          | 1343        | 1346         | rVB      | 216906         | 166126        | 2.67%           | 0.298%        |

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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-BF060222.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 10.245 | 1349 | 1353 | 1355 | rBV  | 139359  | 189515  | 3.04%  | 0.340% |
| 38 | 10.292 | 1359 | 1361 | 1364 | rBV  | 122879  | 103068  | 1.66%  | 0.185% |
| 39 | 10.363 | 1371 | 1373 | 1374 | rVV  | 104231  | 84247   | 1.35%  | 0.151% |
| 40 | 10.392 | 1374 | 1378 | 1383 | rVB  | 1480821 | 1272928 | 20.45% | 2.283% |
| 41 | 10.439 | 1383 | 1386 | 1387 | rBV  | 175502  | 139955  | 2.25%  | 0.251% |
| 42 | 10.457 | 1387 | 1389 | 1390 | rVV  | 126822  | 102297  | 1.64%  | 0.183% |
| 43 | 10.498 | 1394 | 1396 | 1398 | rVV  | 134824  | 124691  | 2.00%  | 0.224% |
| 44 | 10.521 | 1398 | 1400 | 1402 | rVV  | 204202  | 170561  | 2.74%  | 0.306% |
| 45 | 10.545 | 1402 | 1404 | 1407 | rVB  | 119143  | 97586   | 1.57%  | 0.175% |
| 46 | 10.610 | 1412 | 1415 | 1417 | rBV  | 165905  | 170379  | 2.74%  | 0.306% |
| 47 | 10.627 | 1417 | 1418 | 1423 | rVB2 | 131658  | 122794  | 1.97%  | 0.220% |
| 48 | 10.751 | 1437 | 1439 | 1445 | rVB3 | 87018   | 91038   | 1.46%  | 0.163% |
| 49 | 10.939 | 1461 | 1471 | 1473 | rBV  | 336359  | 454702  | 7.30%  | 0.815% |
| 50 | 10.963 | 1473 | 1475 | 1478 | rVV  | 234542  | 185782  | 2.98%  | 0.333% |
| 51 | 11.021 | 1482 | 1485 | 1488 | rVV  | 207654  | 162866  | 2.62%  | 0.292% |
| 52 | 11.139 | 1502 | 1505 | 1508 | rVB2 | 139370  | 136862  | 2.20%  | 0.245% |
| 53 | 11.227 | 1515 | 1520 | 1523 | rBV  | 420335  | 405417  | 6.51%  | 0.727% |
| 54 | 11.333 | 1533 | 1538 | 1539 | rBV  | 547529  | 552541  | 8.87%  | 0.991% |
| 55 | 11.363 | 1539 | 1543 | 1546 | rVB  | 3247824 | 2976583 | 47.81% | 5.338% |
| 56 | 11.410 | 1547 | 1551 | 1553 | rBV  | 1225916 | 926025  | 14.87% | 1.661% |
| 57 | 11.445 | 1553 | 1557 | 1559 | rBV3 | 85860   | 107300  | 1.72%  | 0.192% |
| 58 | 11.563 | 1574 | 1577 | 1585 | rBV2 | 134625  | 166497  | 2.67%  | 0.299% |
| 59 | 11.627 | 1585 | 1588 | 1590 | rBV  | 119960  | 108337  | 1.74%  | 0.194% |
| 60 | 11.657 | 1590 | 1593 | 1596 | rBV2 | 191281  | 179064  | 2.88%  | 0.321% |
| 61 | 11.739 | 1602 | 1607 | 1612 | rVB3 | 208676  | 285625  | 4.59%  | 0.512% |
| 62 | 11.833 | 1619 | 1623 | 1625 | rBV  | 788328  | 690715  | 11.09% | 1.239% |
| 63 | 11.863 | 1625 | 1628 | 1631 | rVB  | 841079  | 666291  | 10.70% | 1.195% |
| 64 | 11.910 | 1631 | 1636 | 1638 | rBV  | 327637  | 275781  | 4.43%  | 0.495% |
| 65 | 11.945 | 1638 | 1642 | 1644 | rVV  | 940297  | 979705  | 15.74% | 1.757% |
| 66 | 11.968 | 1644 | 1646 | 1649 | rVB  | 517842  | 392953  | 6.31%  | 0.705% |
| 67 | 12.098 | 1665 | 1668 | 1670 | rBV2 | 67737   | 83699   | 1.34%  | 0.150% |
| 68 | 12.127 | 1670 | 1673 | 1675 | rVV  | 316366  | 277908  | 4.46%  | 0.498% |
| 69 | 12.304 | 1701 | 1703 | 1706 | rVV  | 107553  | 114828  | 1.84%  | 0.206% |
| 70 | 12.380 | 1710 | 1716 | 1719 | rBV  | 320101  | 390605  | 6.27%  | 0.701% |
| 71 | 12.421 | 1719 | 1723 | 1728 | rVV4 | 236754  | 421180  | 6.76%  | 0.755% |
| 72 | 12.480 | 1728 | 1733 | 1738 | rVV3 | 115246  | 230292  | 3.70%  | 0.413% |
| 73 | 12.545 | 1741 | 1744 | 1747 | rVV  | 975114  | 785491  | 12.62% | 1.409% |
| 74 | 12.586 | 1747 | 1751 | 1753 | rVV3 | 68521   | 97173   | 1.56%  | 0.174% |
| 75 | 12.639 | 1757 | 1760 | 1763 | rVB  | 229308  | 189020  | 3.04%  | 0.339% |
| 76 | 12.774 | 1778 | 1783 | 1789 | rVV  | 1266896 | 1153723 | 18.53% | 2.069% |

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 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GATE-6-JET-GROUT-SPOILS

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-BF060222.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 77  | 12.915 | 1803 | 1807 | 1811 | rVB  | 1701296 | 1624781 | 26.10% | 2.914% |
| 78  | 12.992 | 1816 | 1820 | 1824 | rBV  | 131057  | 173466  | 2.79%  | 0.311% |
| 79  | 13.080 | 1831 | 1835 | 1836 | rBV2 | 109905  | 117969  | 1.89%  | 0.212% |
| 80  | 13.104 | 1836 | 1839 | 1842 | rVB  | 261980  | 252039  | 4.05%  | 0.452% |
| 81  | 13.168 | 1847 | 1850 | 1853 | rVB  | 249194  | 205241  | 3.30%  | 0.368% |
| 82  | 13.204 | 1853 | 1856 | 1860 | rBV  | 177270  | 152627  | 2.45%  | 0.274% |
| 83  | 13.298 | 1869 | 1872 | 1875 | rVV  | 127333  | 102189  | 1.64%  | 0.183% |
| 84  | 13.327 | 1875 | 1877 | 1885 | rVB  | 166061  | 167380  | 2.69%  | 0.300% |
| 85  | 13.610 | 1922 | 1925 | 1930 | rVB  | 103766  | 119290  | 1.92%  | 0.214% |
| 86  | 13.721 | 1939 | 1944 | 1946 | rBV3 | 80217   | 119235  | 1.92%  | 0.214% |
| 87  | 13.821 | 1958 | 1961 | 1968 | rVB3 | 108193  | 151570  | 2.43%  | 0.272% |
| 88  | 13.968 | 1981 | 1986 | 1989 | rBV2 | 554512  | 816906  | 13.12% | 1.465% |
| 89  | 13.998 | 1989 | 1991 | 1999 | rVB  | 375349  | 358842  | 5.76%  | 0.644% |
| 90  | 14.362 | 2048 | 2053 | 2056 | rVB  | 134754  | 134548  | 2.16%  | 0.241% |
| 91  | 14.457 | 2061 | 2069 | 2072 | rVV5 | 108404  | 221071  | 3.55%  | 0.396% |
| 92  | 14.504 | 2075 | 2077 | 2081 | rVV3 | 98943   | 100514  | 1.61%  | 0.180% |
| 93  | 15.009 | 2158 | 2163 | 2170 | rBV  | 190448  | 385234  | 6.19%  | 0.691% |
| 94  | 15.080 | 2171 | 2175 | 2178 | rVV  | 93871   | 102506  | 1.65%  | 0.184% |
| 95  | 15.115 | 2178 | 2181 | 2187 | rVB  | 103031  | 126136  | 2.03%  | 0.226% |
| 96  | 15.309 | 2209 | 2214 | 2219 | rBV  | 144787  | 180714  | 2.90%  | 0.324% |
| 97  | 15.368 | 2220 | 2224 | 2230 | rVB  | 259949  | 314477  | 5.05%  | 0.564% |
| 98  | 15.433 | 2230 | 2235 | 2238 | rBV  | 316430  | 391652  | 6.29%  | 0.702% |
| 99  | 16.880 | 2475 | 2481 | 2491 | rBV3 | 74108   | 152843  | 2.45%  | 0.274% |
| 100 | 17.309 | 2549 | 2554 | 2561 | rVB2 | 55624   | 111218  | 1.79%  | 0.199% |

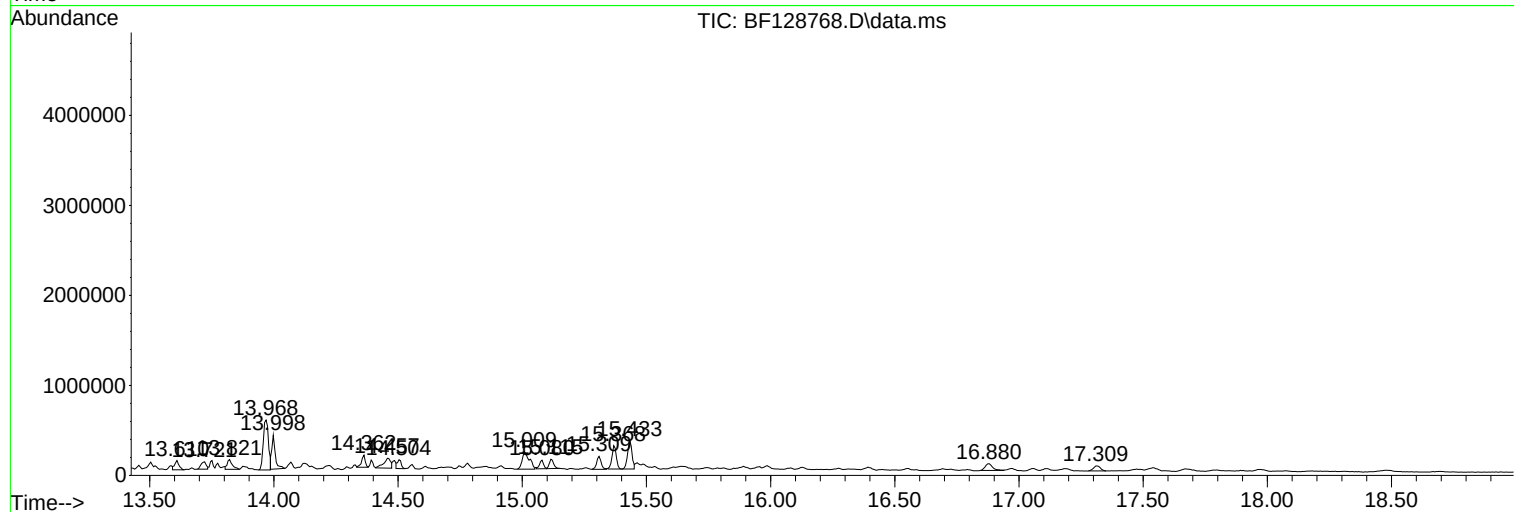
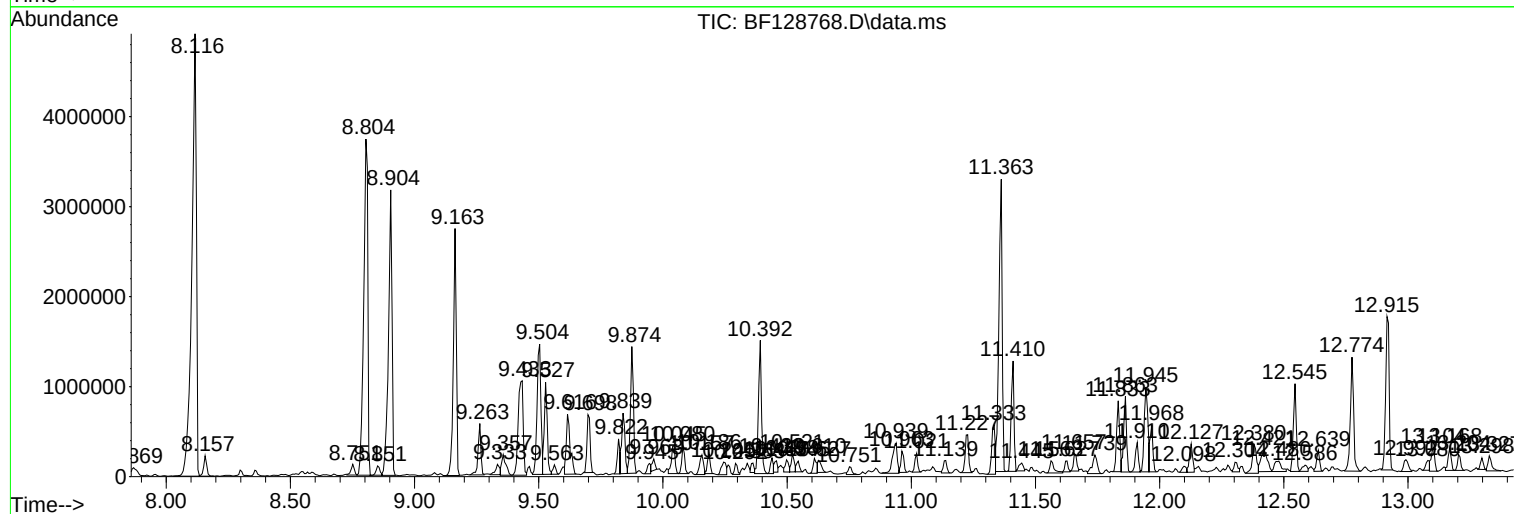
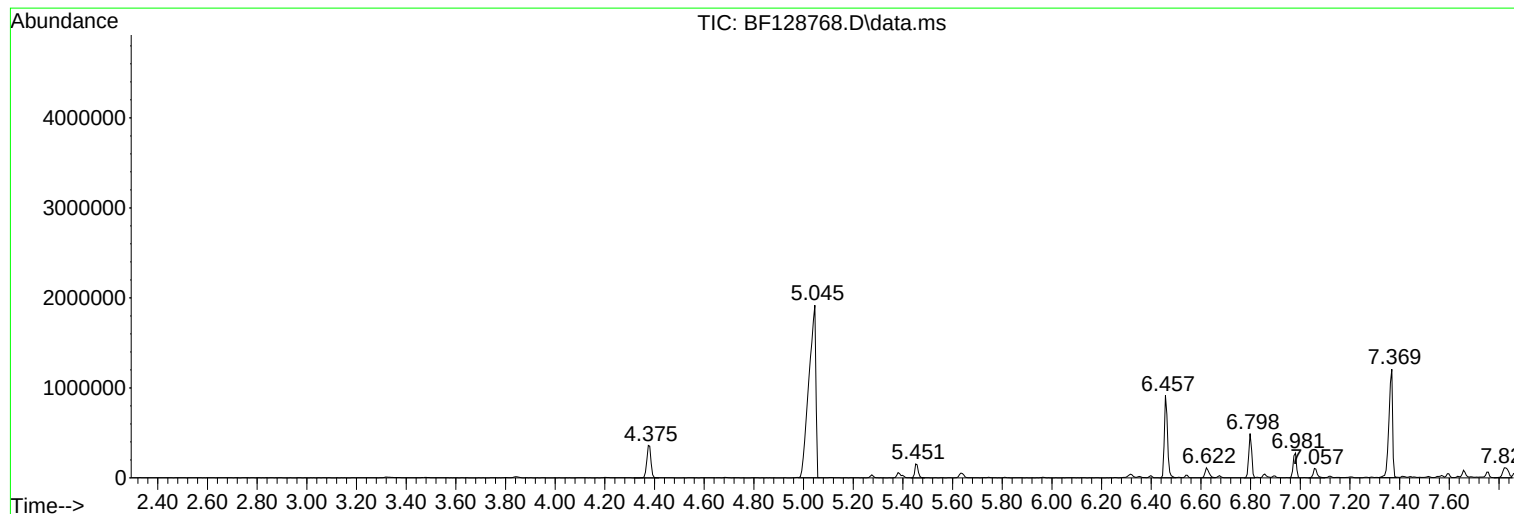
Sum of corrected areas: 55758439

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GATE-6-JET-GROUT-SPOILS

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.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\BF061022\  
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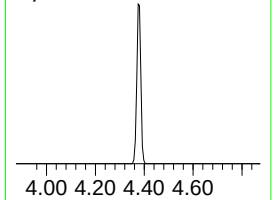
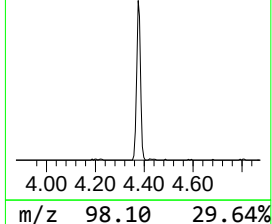
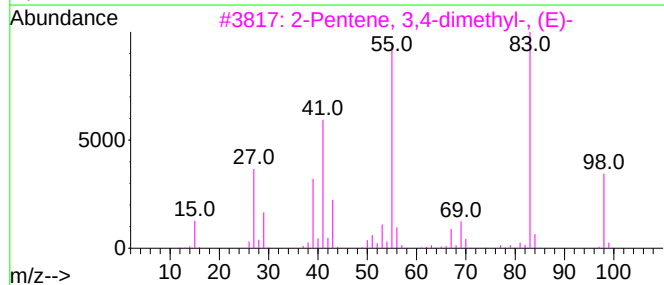
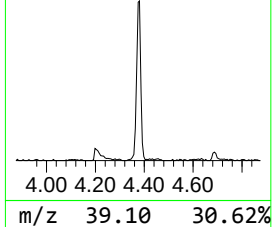
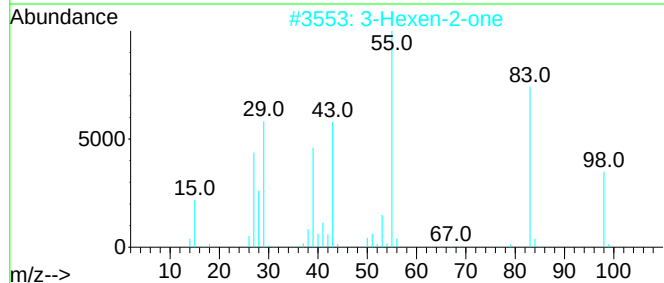
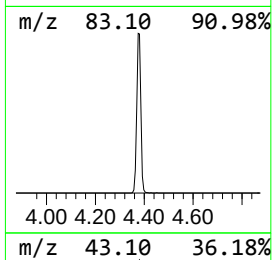
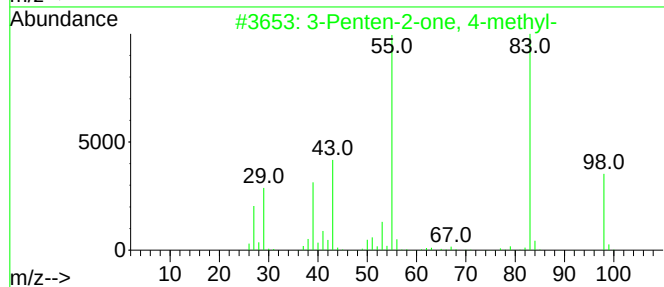
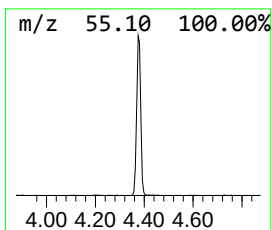
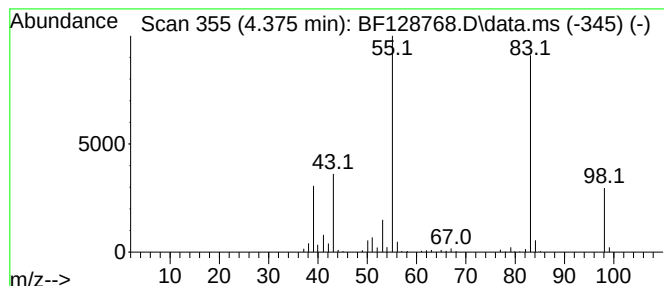
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 1 3-Penten-2-one, 4-methyl- Concentration Rank 9

| R.T.  | EstConc  | Area   | Relative to ISTD       | R.T.  |
|-------|----------|--------|------------------------|-------|
| 4.375 | 21.20 ng | 421691 | 1,4-Dichlorobenzene-d4 | 6.798 |

| Hit# | of | 5 | Tentative ID                   | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|----|---------|-------------|------|
| 1    |    |   | 3-Penten-2-one, 4-methyl-      | 98 | C6H10O  | 000141-79-7 | 95   |
| 2    |    |   | 3-Hexen-2-one                  | 98 | C6H10O  | 000763-93-9 | 91   |
| 3    |    |   | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14   | 004914-92-5 | 90   |
| 4    |    |   | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14   | 004914-91-4 | 86   |
| 5    |    |   | 2-Pentene, 2,4-dimethyl-       | 98 | C7H14   | 000625-65-0 | 86   |



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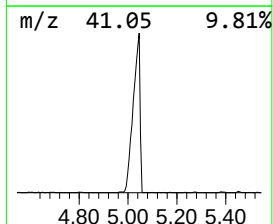
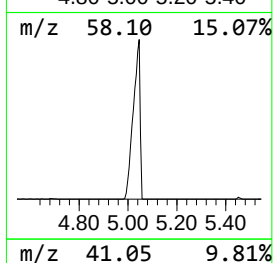
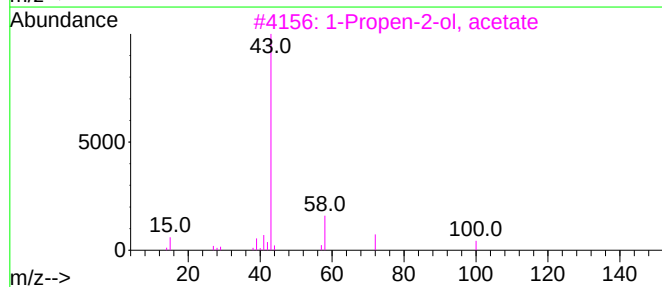
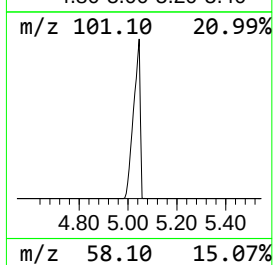
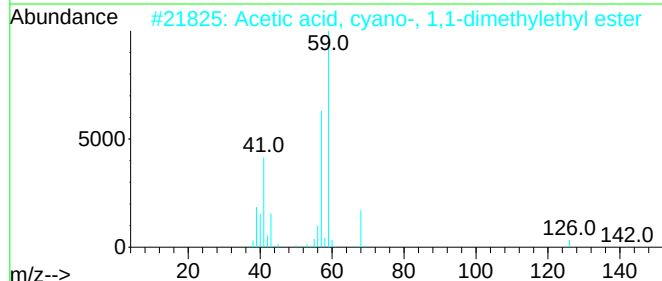
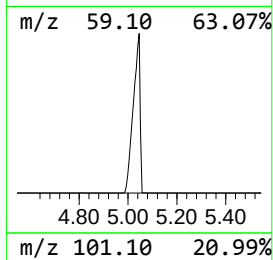
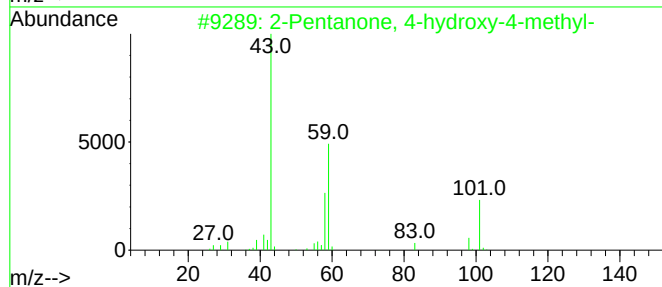
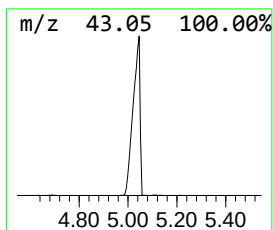
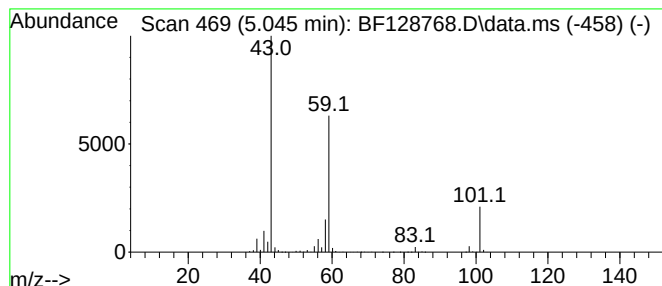
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc   | Area    | Relative to ISTD       | R.T.  |
|-------|-----------|---------|------------------------|-------|
| 5.045 | 188.08 ng | 3740600 | 1,4-Dichlorobenzene-d4 | 6.798 |

| Hit# | of                                  | 5   | Tentative ID | MW          | MolForm | CAS# | Qual |
|------|-------------------------------------|-----|--------------|-------------|---------|------|------|
| 1    | 2-Pentanone, 4-hydroxy-4-methyl-    | 116 | C6H12O2      | 000123-42-2 | 56      |      |      |
| 2    | Acetic acid, cyano-, 1,1-dimethy... | 141 | C7H11NO2     | 001116-98-9 | 23      |      |      |
| 3    | 1-Propen-2-ol, acetate              | 100 | C5H8O2       | 000108-22-5 | 10      |      |      |
| 4    | 2,3-Butanedione, monooxime          | 101 | C4H7NO2      | 000057-71-6 | 9       |      |      |
| 5    | Morpholine, 4-methyl-               | 101 | C5H11NO      | 000109-02-4 | 9       |      |      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

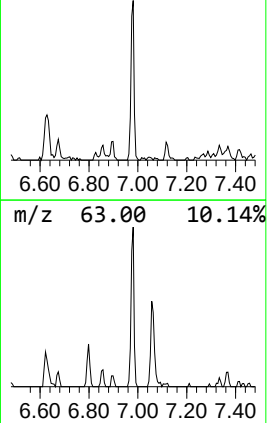
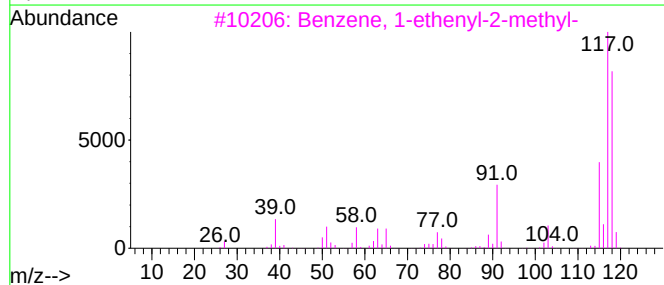
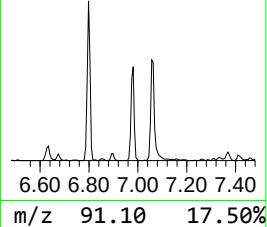
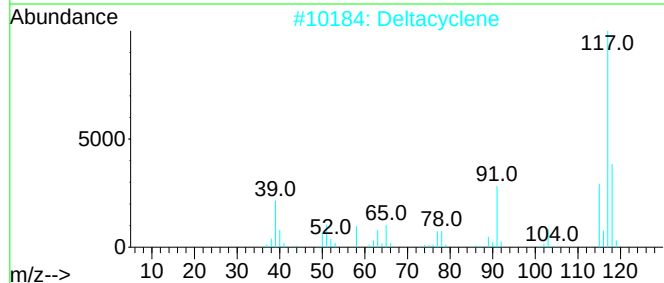
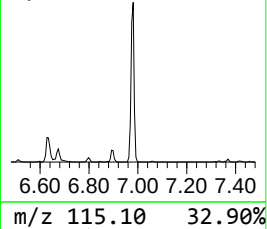
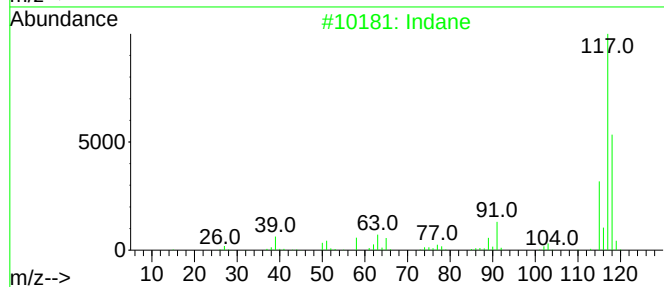
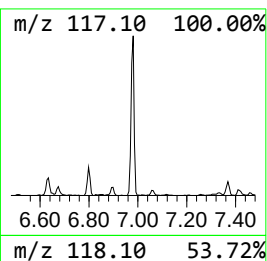
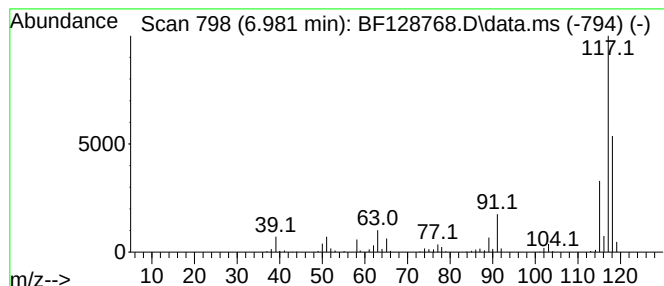
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TIC Integration Parameters: LSCINT.P

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Peak Number 3 Indane Concentration Rank 15

| R.T.  | EstConc  | Area   | Relative to ISTD       | R.T.  |
|-------|----------|--------|------------------------|-------|
| 6.981 | 12.30 ng | 244577 | 1,4-Dichlorobenzene-d4 | 6.798 |

| Hit# | of | 5 | Tentative ID                    | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------------|-----|---------|-------------|------|
| 1    |    |   | Indane                          | 118 | C9H10   | 000496-11-7 | 93   |
| 2    |    |   | Deltacyclene                    | 118 | C9H10   | 007785-10-6 | 76   |
| 3    |    |   | Benzene, 1-ethenyl-2-methyl-    | 118 | C9H10   | 000611-15-4 | 64   |
| 4    |    |   | Benzene, (2-bromocyclopropyl)-  | 196 | C9H9Br  | 036617-02-4 | 58   |
| 5    |    |   | Benzeneethanol, .beta.-ethenyl- | 148 | C10H12O | 006052-63-7 | 53   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

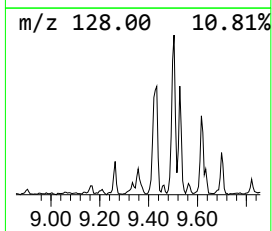
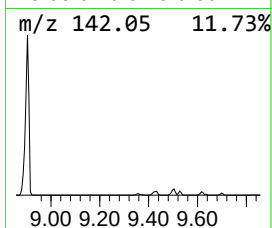
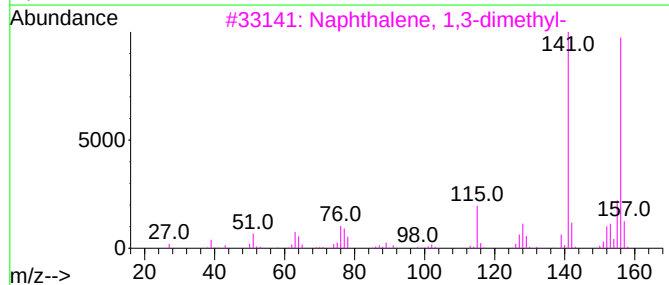
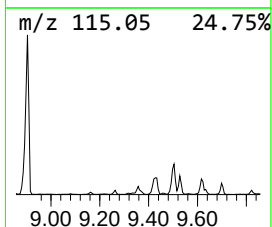
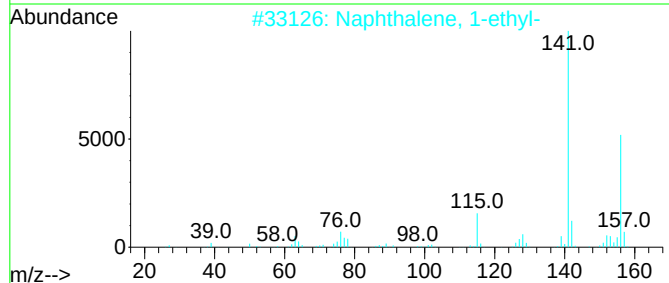
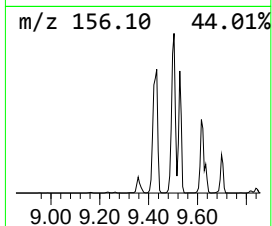
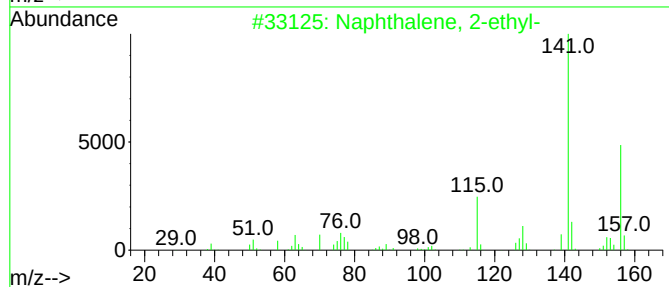
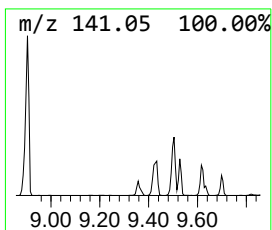
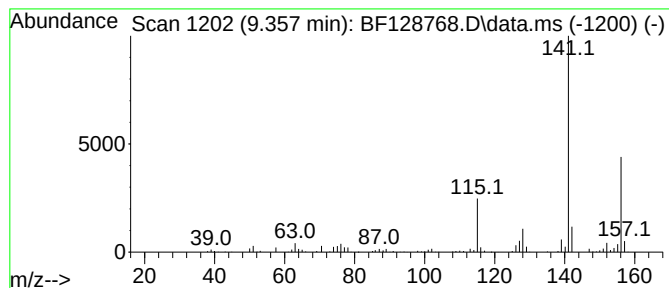
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 4 Naphthalene, 2-ethyl- Concentration Rank 20

| R.T.  | EstConc | Area   | Relative to ISTD | R.T.  |
|-------|---------|--------|------------------|-------|
| 9.357 | 8.80 ng | 261006 | Acenaphthene-d10 | 9.839 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2-ethyl-               | 156 | C12H12  | 000939-27-5 | 95   |
| 2    |    |   | Naphthalene, 1-ethyl-               | 156 | C12H12  | 001127-76-0 | 91   |
| 3    |    |   | Naphthalene, 1,3-dimethyl-          | 156 | C12H12  | 000575-41-7 | 91   |
| 4    |    |   | 2,4-Difluoromesitylene              | 156 | C9H10F2 | 000392-61-0 | 64   |
| 5    |    |   | 2-Thiophenecarboxylic acid, 5-et... | 156 | C7H8O2S | 023229-72-3 | 64   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

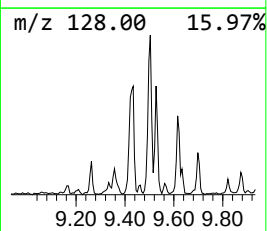
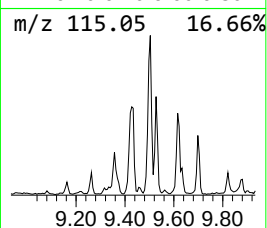
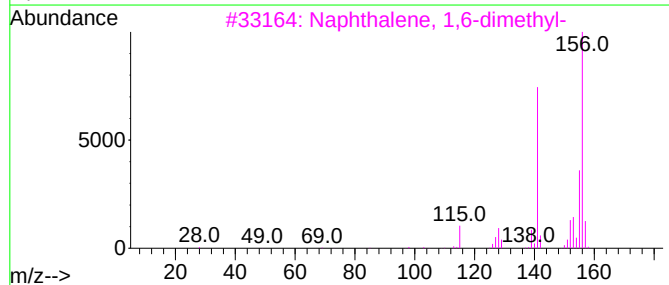
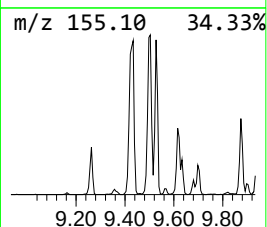
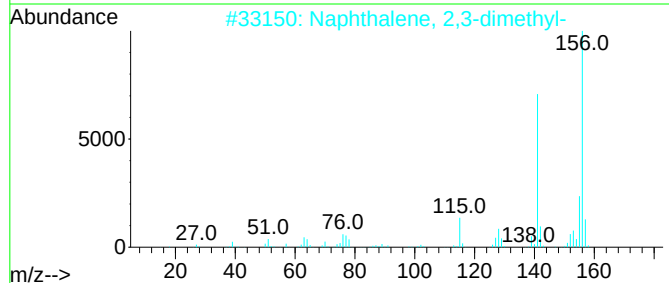
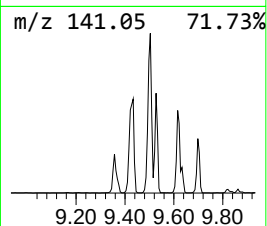
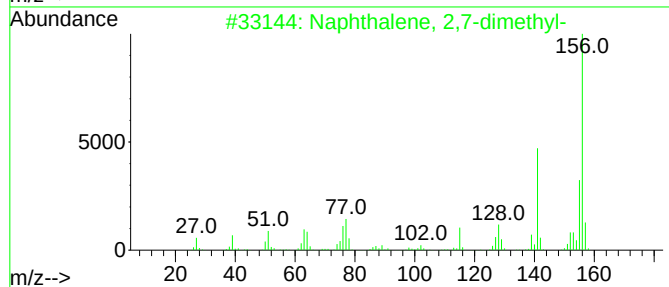
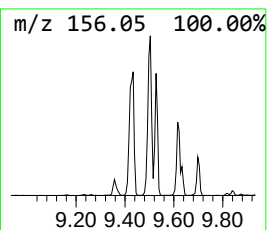
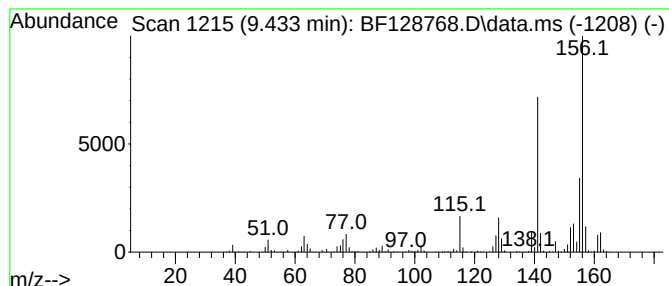
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 5 Naphthalene, 2,7-dimethyl- Concentration Rank 3

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.433 | 48.64 ng | 1442000 | Acenaphthene-d10 | 9.839 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 96   |
| 2    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 96   |
| 3    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 4    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 95   |
| 5    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

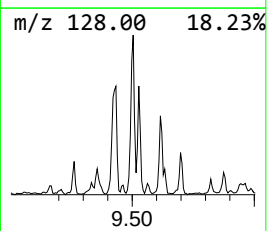
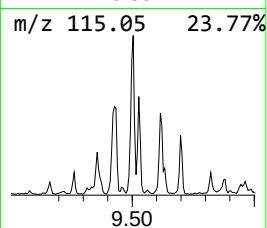
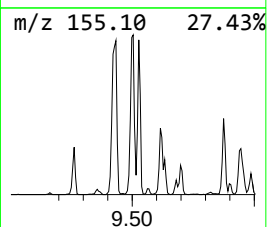
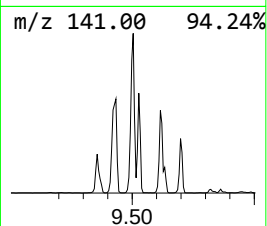
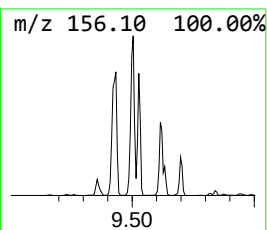
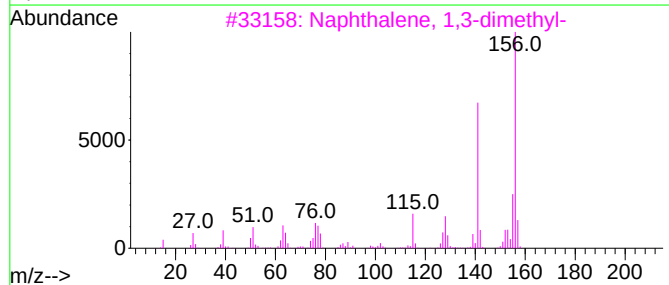
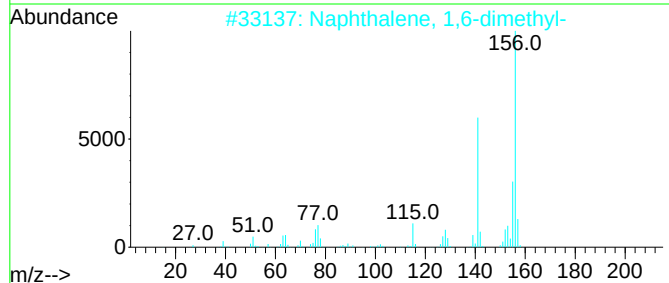
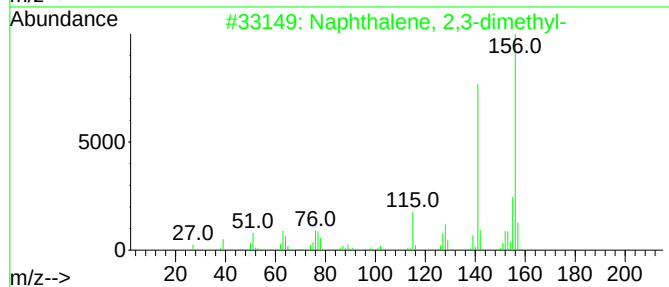
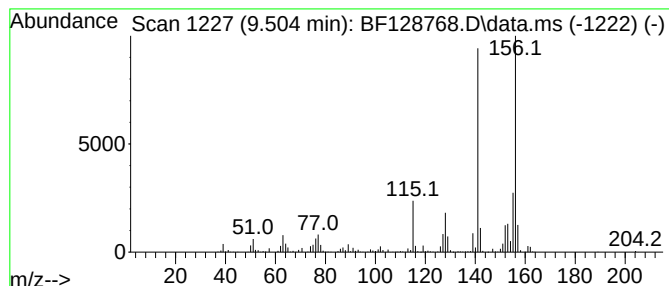
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 6 Naphthalene, 2,3-dimethyl- Concentration Rank 2

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 9.504 | 53.41 ng | 1583280 | Acenaphthene-d10 | 9.839 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 96   |
| 3    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 96   |
| 4    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |
| 5    |    |   | Naphthalene, 1,2-dimethyl- | 156 | C12H12  | 000573-98-8 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

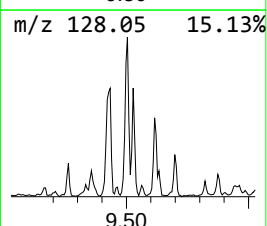
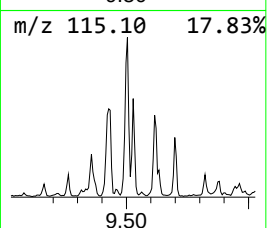
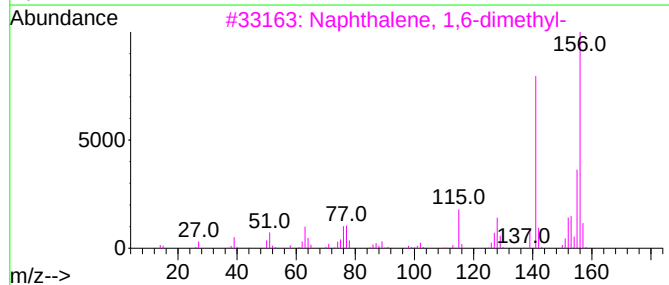
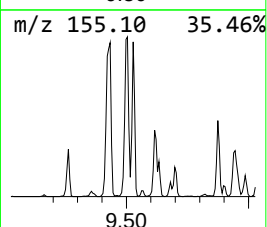
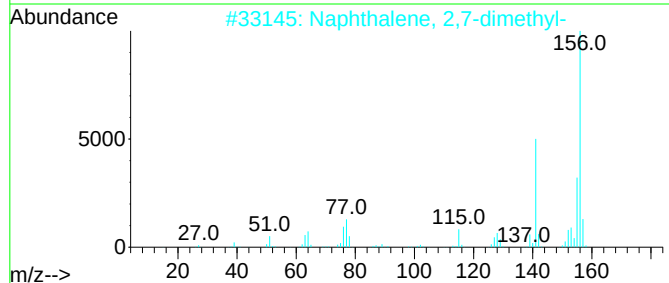
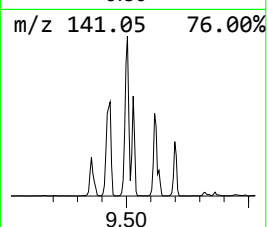
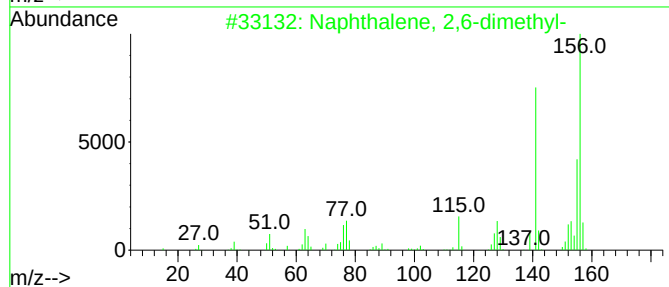
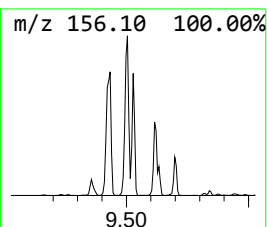
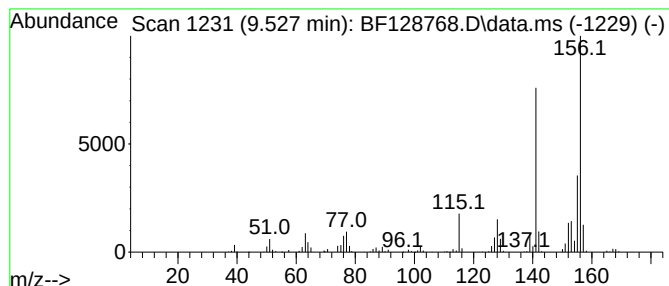
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 7 Naphthalene, 2,6-dimethyl- Concentration Rank 5

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.527 | 27.68 ng | 820605 | Acenaphthene-d10 | 9.839 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,6-dimethyl- | 156 | C12H12  | 000581-42-0 | 97   |
| 2    |    |   | Naphthalene, 2,7-dimethyl- | 156 | C12H12  | 000582-16-1 | 97   |
| 3    |    |   | Naphthalene, 1,6-dimethyl- | 156 | C12H12  | 000575-43-9 | 97   |
| 4    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 5    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

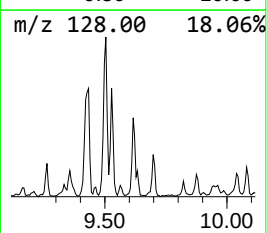
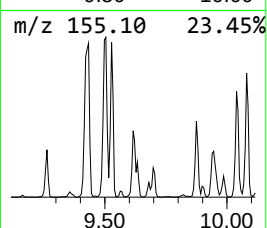
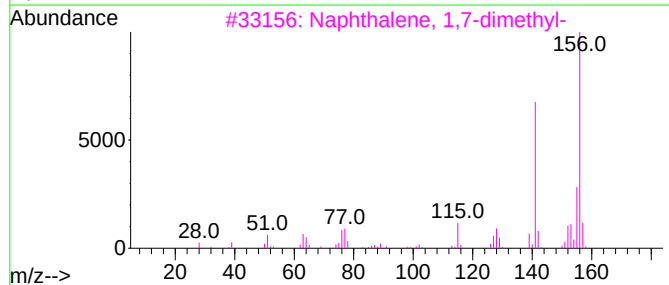
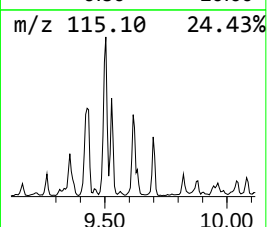
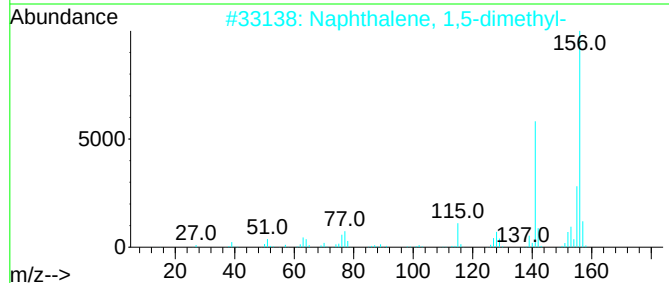
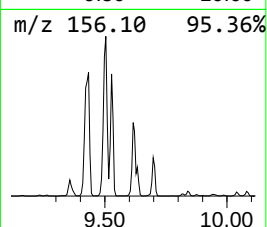
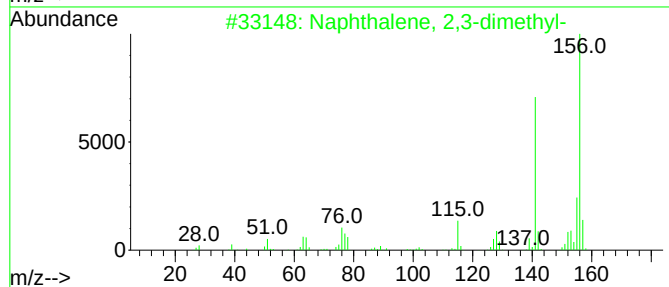
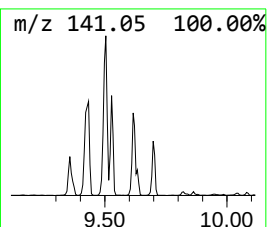
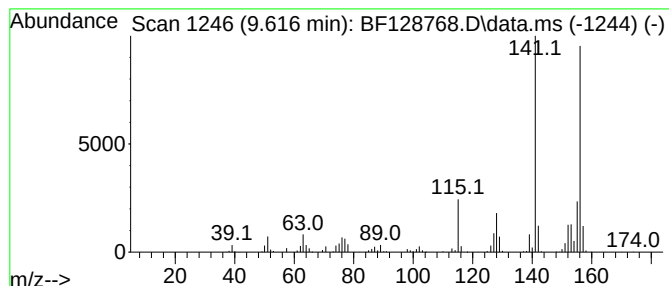
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 9.616 | 23.81 ng | 705878 | Acenaphthene-d10 | 9.839 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphthalene, 2,3-dimethyl- | 156 | C12H12  | 000581-40-8 | 97   |
| 2    |    |   | Naphthalene, 1,5-dimethyl- | 156 | C12H12  | 000571-61-9 | 97   |
| 3    |    |   | Naphthalene, 1,7-dimethyl- | 156 | C12H12  | 000575-37-1 | 97   |
| 4    |    |   | Naphthalene, 1,3-dimethyl- | 156 | C12H12  | 000575-41-7 | 97   |
| 5    |    |   | Naphthalene, 1,4-dimethyl- | 156 | C12H12  | 000571-58-4 | 96   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

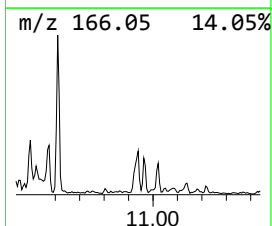
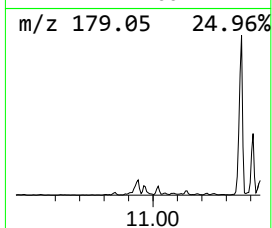
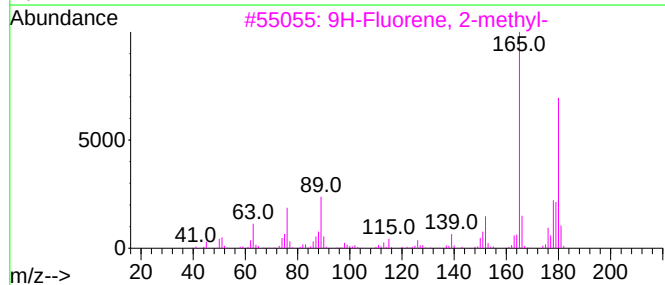
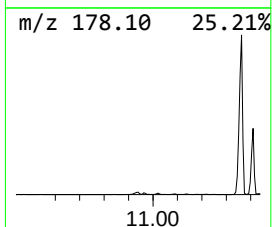
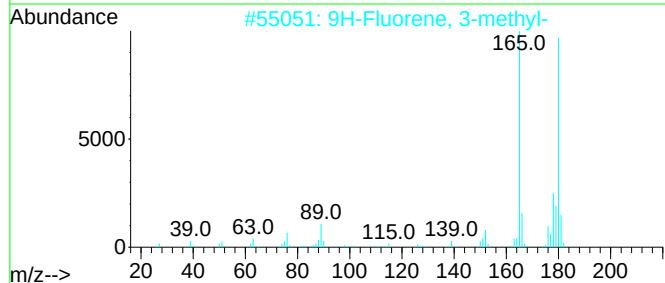
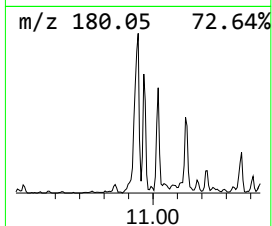
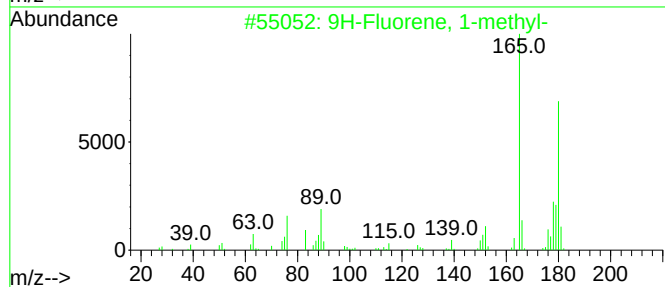
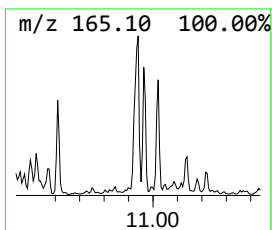
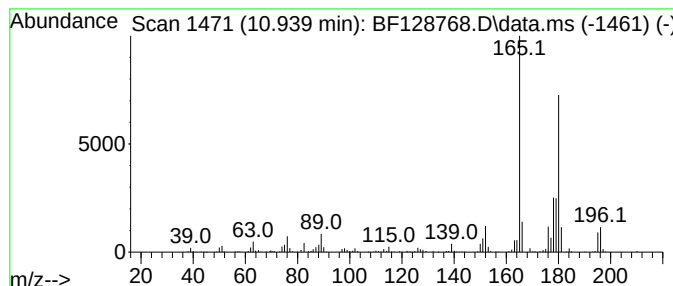
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 9 9H-Fluorene, 1-methyl- Concentration Rank 10

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 10.939 | 16.46 ng | 454702 | Phenanthrene-d10 | 11.333 |

| Hit# | of                        | 5 | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|---------------------------|---|--------------|-----|---------|-------------|------|
| 1    | 9H-Fluorene, 1-methyl-    |   |              | 180 | C14H12  | 001730-37-6 | 95   |
| 2    | 9H-Fluorene, 3-methyl-    |   |              | 180 | C14H12  | 002523-39-9 | 95   |
| 3    | 9H-Fluorene, 2-methyl-    |   |              | 180 | C14H12  | 001430-97-3 | 93   |
| 4    | 4a,9a-Methano-9H-fluorene |   |              | 180 | C14H12  | 019540-84-2 | 83   |
| 5    | 9H-Fluorene, 9-methyl-    |   |              | 180 | C14H12  | 002523-37-7 | 70   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

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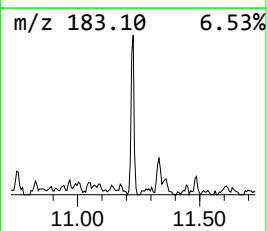
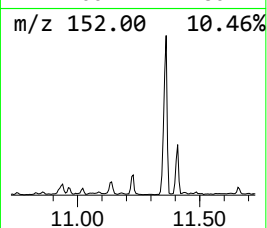
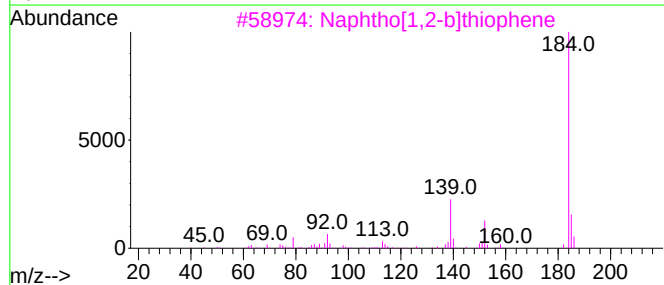
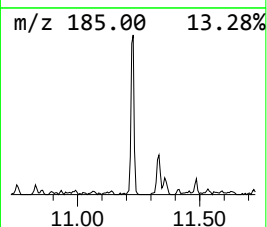
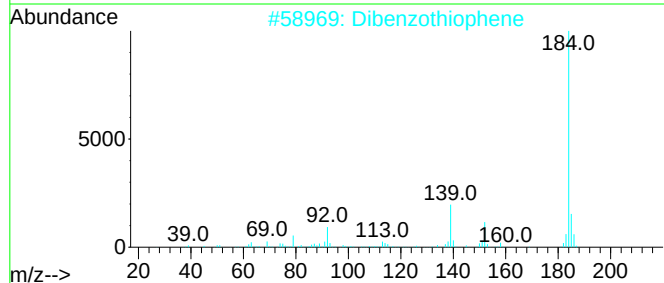
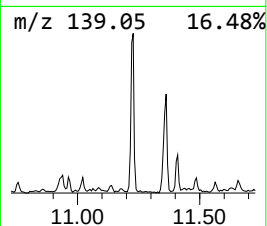
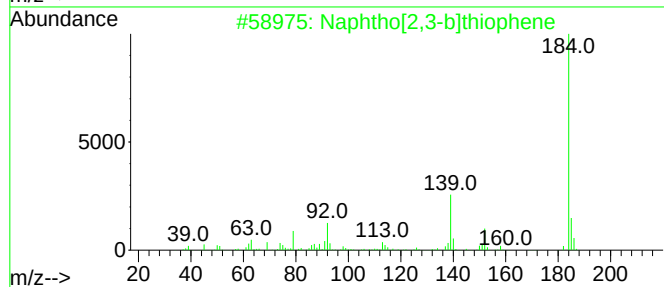
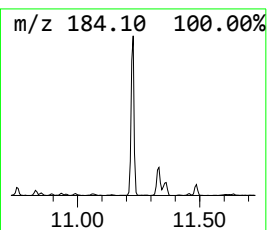
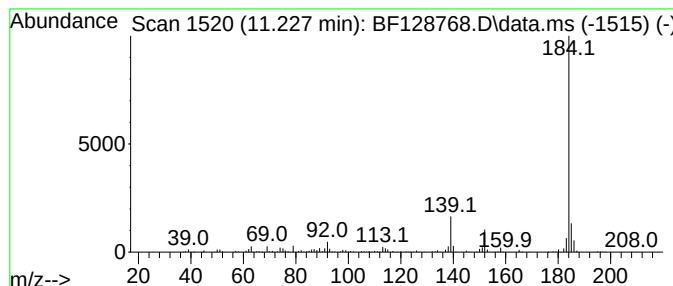
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TIC Integration Parameters: LSCINT.P

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Peak Number 10 Naphtho[2,3-b]thiophene Concentration Rank 12

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.227 | 14.67 ng | 405417 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Naphtho[2,3-b]thiophene | 184 | C12H8S  | 000268-77-9 | 97   |
| 2    |    |   | Dibenzothiophene        | 184 | C12H8S  | 000132-65-0 | 96   |
| 3    |    |   | Naphtho[1,2-b]thiophene | 184 | C12H8S  | 000234-41-3 | 96   |
| 4    |    |   | Naphtho[2,1-b]thiophene | 184 | C12H8S  | 000233-02-3 | 95   |
| 5    |    |   | Azuleno(2,1-b)thiophene | 184 | C12H8S  | 000248-13-5 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

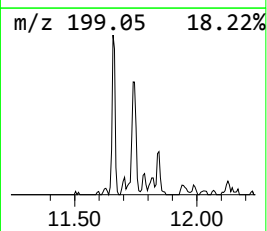
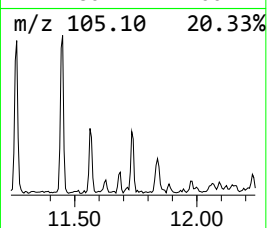
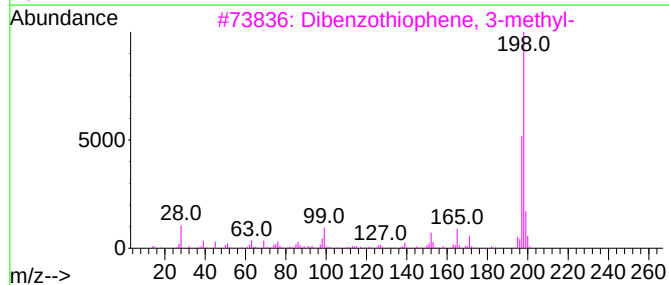
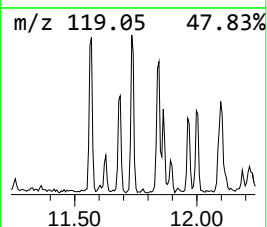
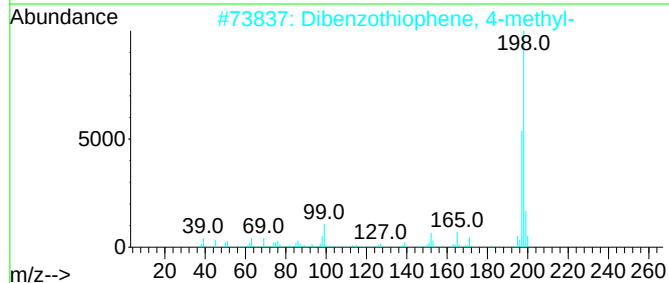
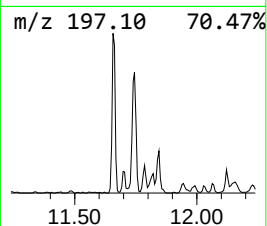
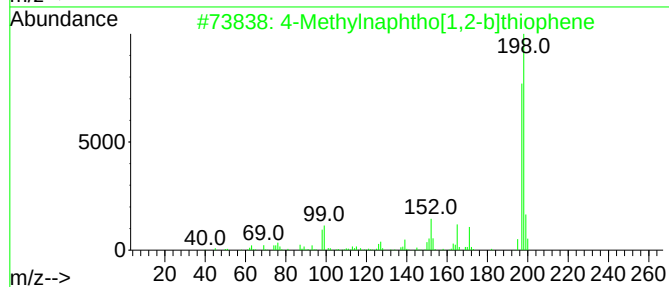
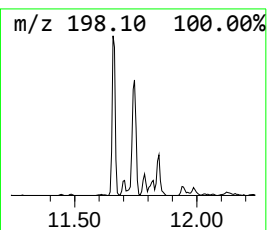
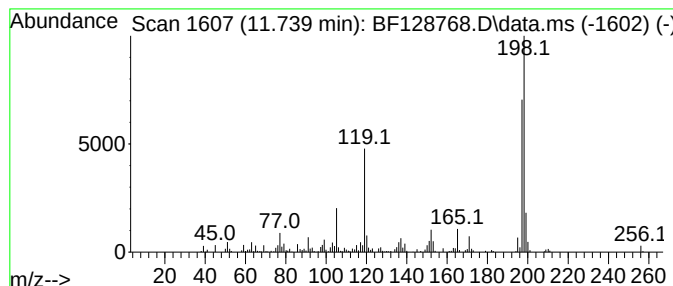
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 11 4-Methylnaphtho[1,2-b]thiop... Concentration Rank 16

| R.T.      | EstConc                         | Area   | Relative to ISTD |         | R.T.         |      |
|-----------|---------------------------------|--------|------------------|---------|--------------|------|
| 11.739    | 10.34 ng                        | 285625 | Phenanthrene-d10 |         | 11.333       |      |
| Hit# of 5 | Tentative ID                    |        | MW               | MolForm | CAS#         | Qual |
| 1         | 4-Methylnaphtho[1,2-b]thiophene |        | 198              | C13H10S | 067388-11-8  | 95   |
| 2         | Dibenzothiophene, 4-methyl-     |        | 198              | C13H10S | 007372-88-5  | 86   |
| 3         | Dibenzothiophene, 3-methyl-     |        | 198              | C13H10S | 016587-52-3  | 86   |
| 4         | 1-Methyldibenzothiophene        |        | 198              | C13H10S | 031317-07-4  | 83   |
| 5         | 2-Methyldibenzothiophene        |        | 198              | C13H10S | 1000383-55-1 | 83   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
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Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

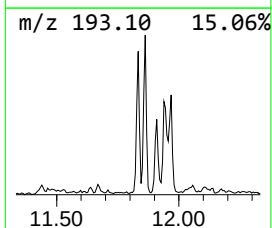
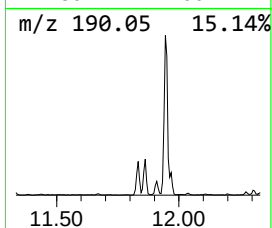
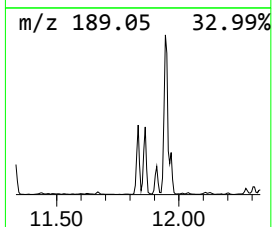
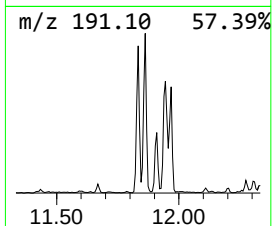
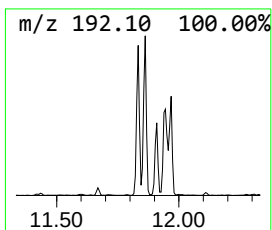
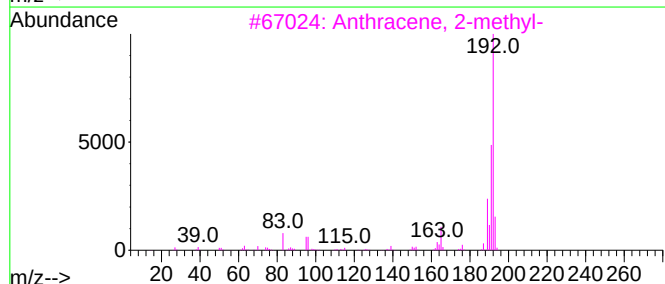
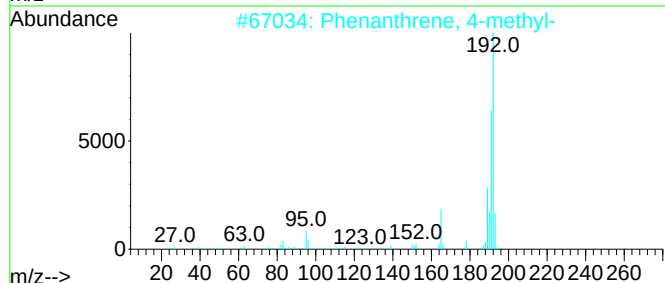
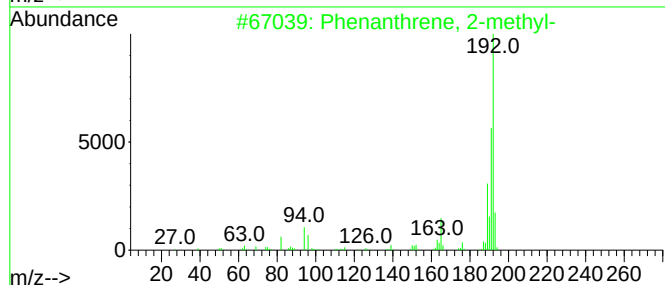
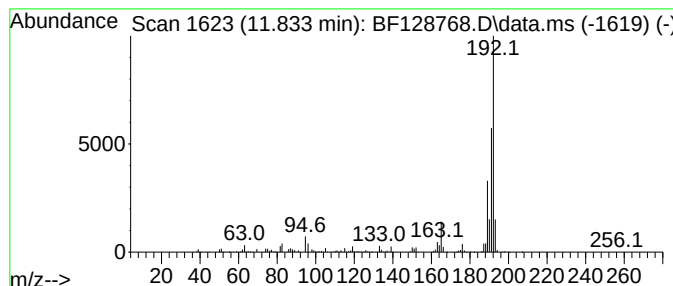
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 12 Phenanthrene, 2-methyl- Concentration Rank 6

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.833 | 25.00 ng | 690715 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl- | 192 | C15H12  | 002531-84-2 | 95   |
| 2    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 95   |
| 3    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 95   |
| 4    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 94   |
| 5    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 93   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

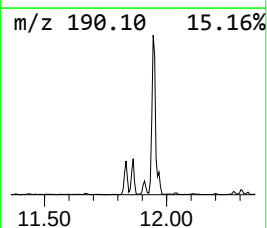
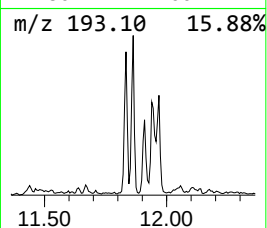
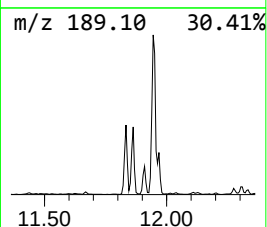
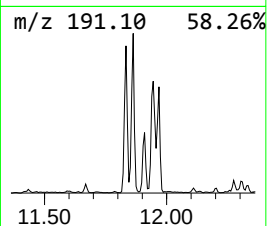
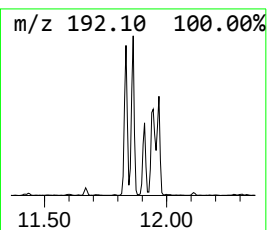
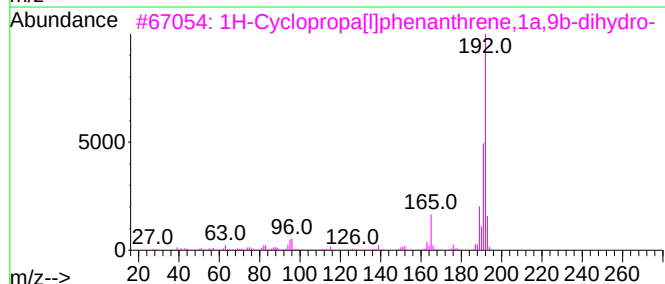
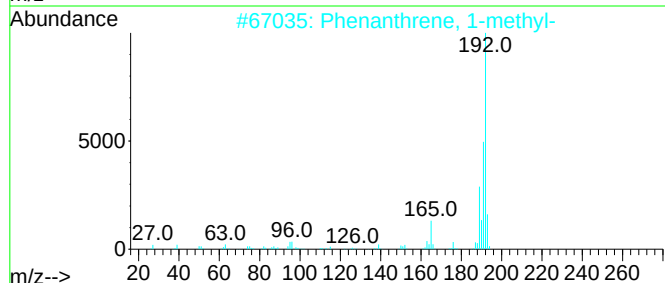
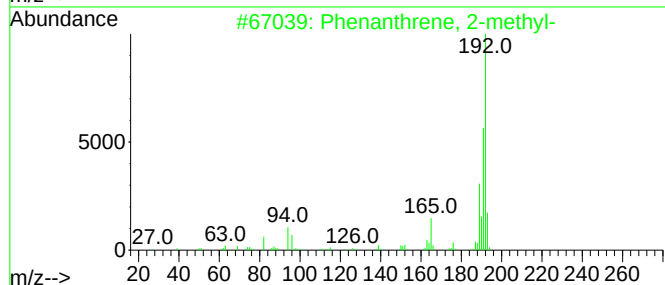
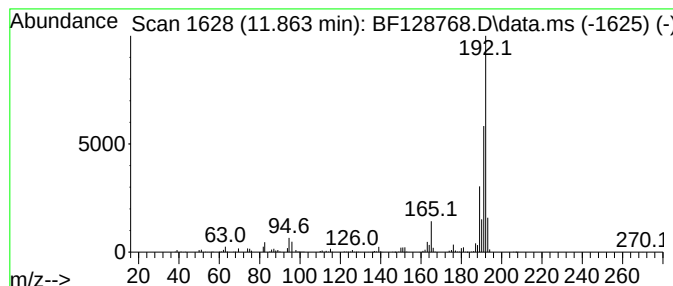
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 13 Phenanthrene, 1-methyl- Concentration Rank 7

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.863 | 24.12 ng | 666291 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 98   |
| 2    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 3    |    |   | 1H-Cyclopropa[1]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 4    |    |   | Phenanthrene, 4-methyl-             | 192 | C15H12  | 000832-64-4 | 95   |
| 5    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 95   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

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BNA\_F  
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GATE-6-JET-GROUT-SPOILS

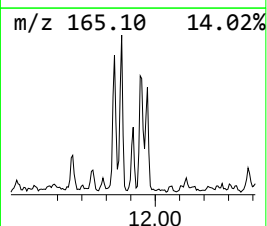
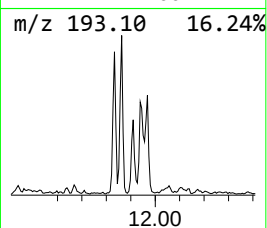
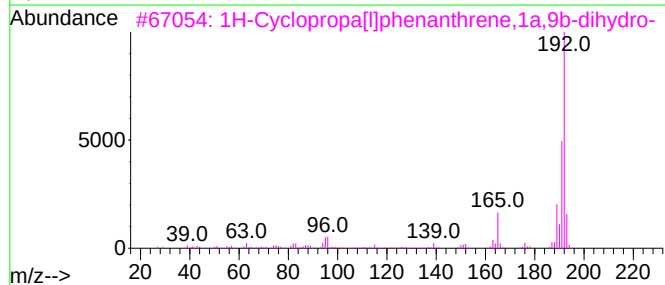
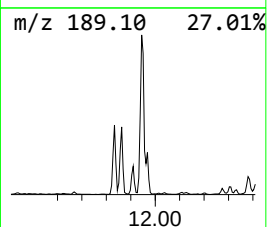
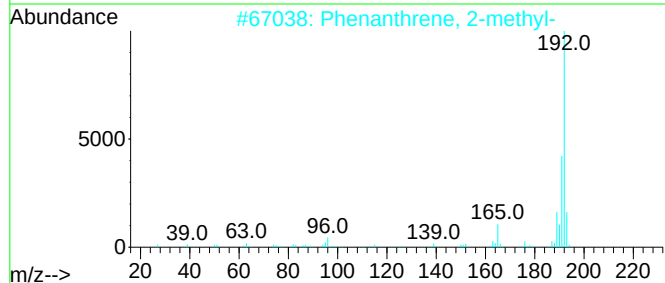
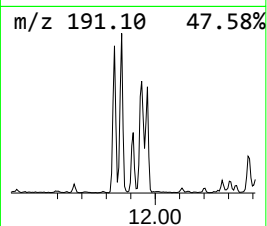
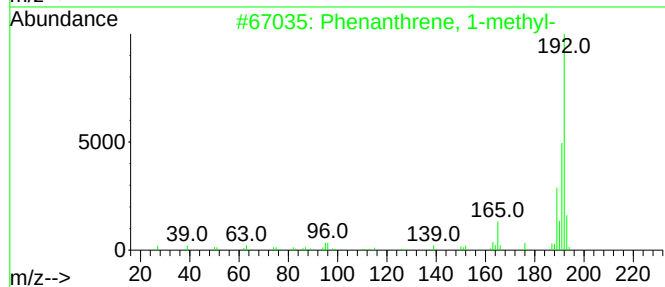
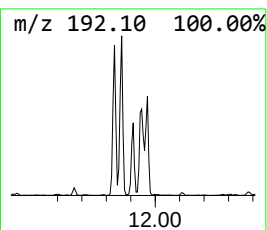
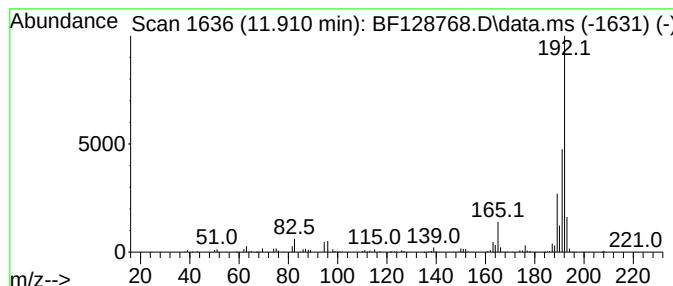
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 14 1H-Cyclopropa[l]phenanthren... Concentration Rank 18

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 11.910 | 9.98 ng | 275781 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 1-methyl-             | 192 | C15H12  | 000832-69-9 | 97   |
| 2    |    |   | Phenanthrene, 2-methyl-             | 192 | C15H12  | 002531-84-2 | 97   |
| 3    |    |   | 1H-Cyclopropa[l]phenanthrene,1a,... | 192 | C15H12  | 000949-41-7 | 96   |
| 4    |    |   | Anthracene, 2-methyl-               | 192 | C15H12  | 000613-12-7 | 96   |
| 5    |    |   | Phenanthrene, 3-methyl-             | 192 | C15H12  | 000832-71-3 | 94   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
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Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

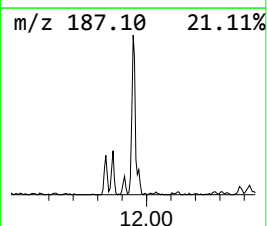
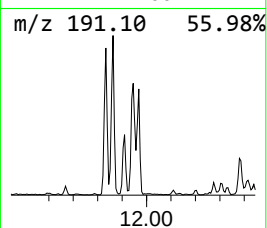
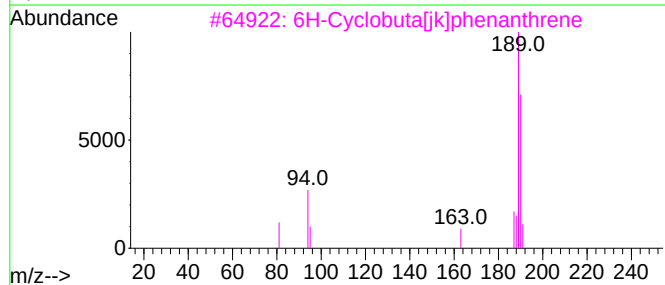
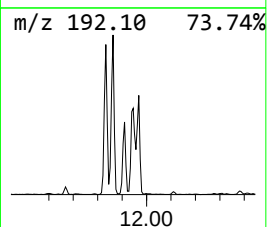
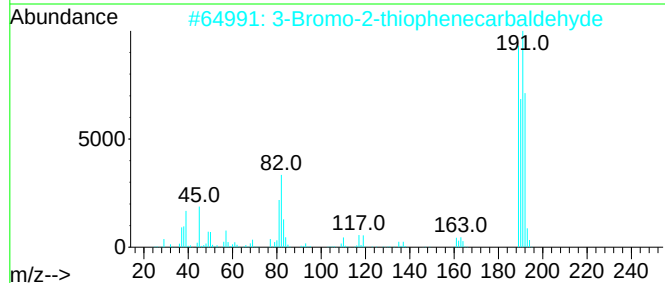
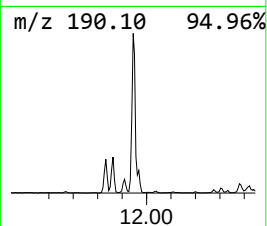
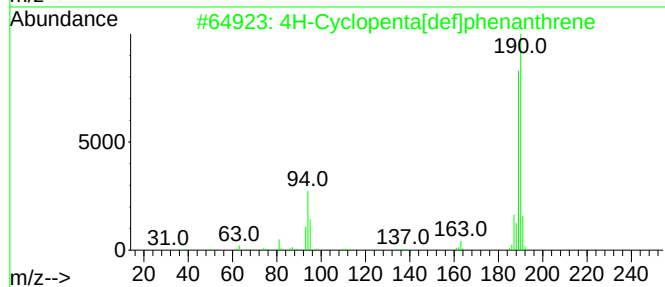
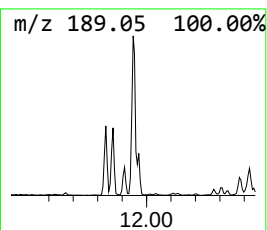
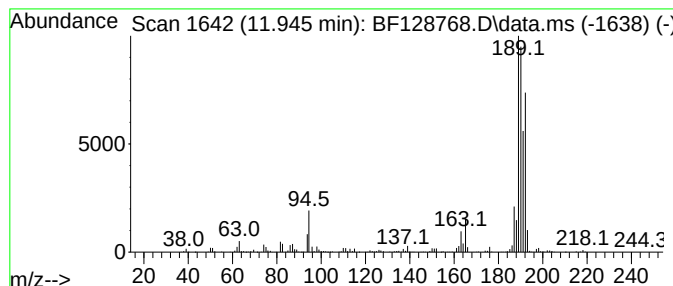
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TIC Integration Parameters: LSCINT.P

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Peak Number 15 4H-Cyclopenta[def]phenanthrene Concentration Rank 4

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.945 | 35.46 ng | 979705 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm  | CAS#         | Qual |
|------|----|---|-------------------------------------|-----|----------|--------------|------|
| 1    |    |   | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10   | 000203-64-5  | 60   |
| 2    |    |   | 3-Bromo-2-thiophenecarbaldehyde     | 190 | C5H3BrOS | 000930-96-1  | 58   |
| 3    |    |   | 6H-Cyclobuta[jk]phenanthrene        | 190 | C15H10   | 083469-43-6  | 49   |
| 4    |    |   | 1H-1,2,4-Triazol-5-amine, 3-brom... | 190 | C4H7BrN4 | 1000460-85-7 | 47   |
| 5    |    |   | 5H-Dibenzo[a,d]cycloheptene         | 192 | C15H12   | 000256-81-5  | 46   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

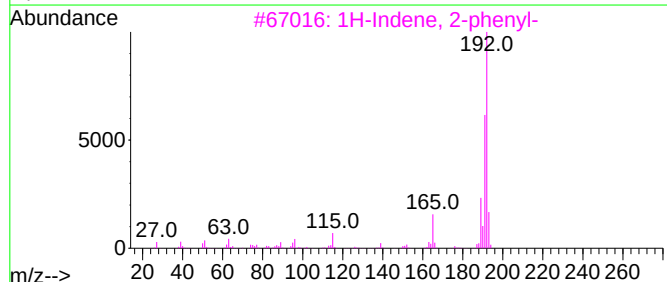
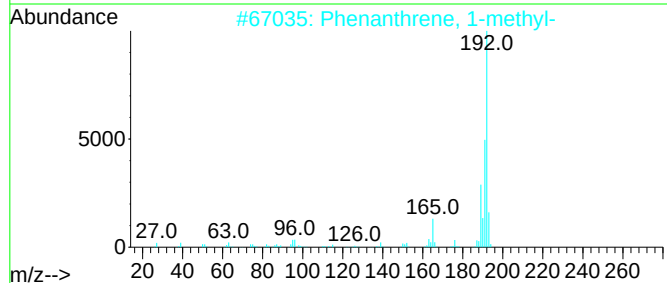
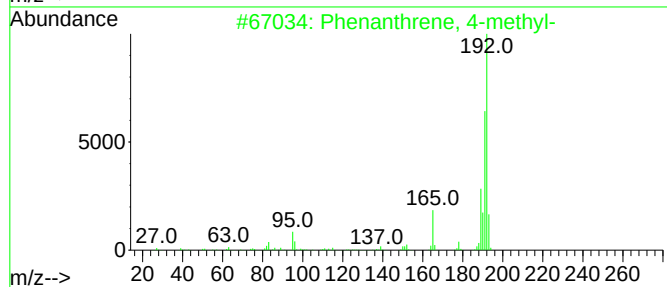
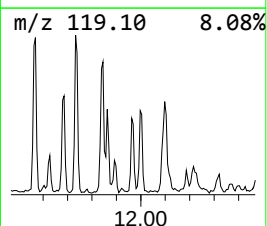
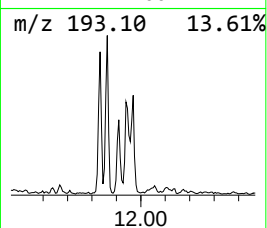
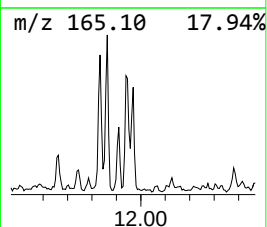
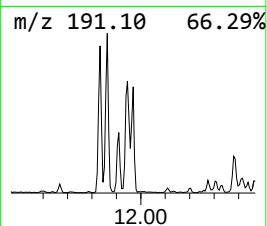
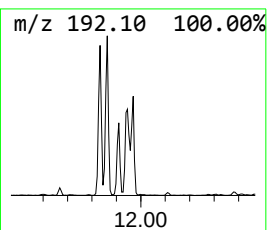
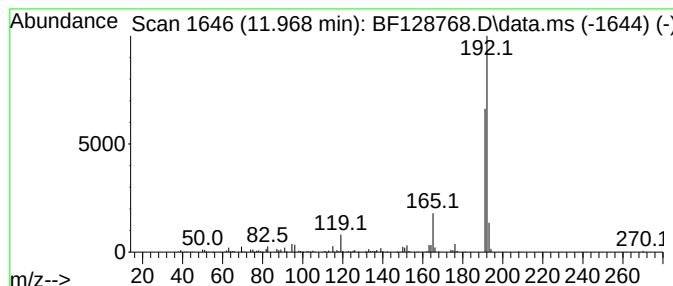
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 16 Phenanthrene, 4-methyl- Concentration Rank 13

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 11.968 | 14.22 ng | 392953 | Phenanthrene-d10 | 11.333 |

| Hit# | of | 5 | Tentative ID            | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------------|-----|---------|-------------|------|
| 1    |    |   | Phenanthrene, 4-methyl- | 192 | C15H12  | 000832-64-4 | 93   |
| 2    |    |   | Phenanthrene, 1-methyl- | 192 | C15H12  | 000832-69-9 | 90   |
| 3    |    |   | 1H-Indene, 2-phenyl-    | 192 | C15H12  | 004505-48-0 | 90   |
| 4    |    |   | Anthracene, 9-methyl-   | 192 | C15H12  | 000779-02-2 | 87   |
| 5    |    |   | Anthracene, 2-methyl-   | 192 | C15H12  | 000613-12-7 | 87   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

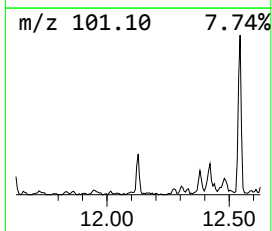
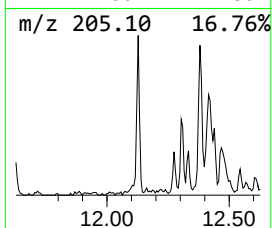
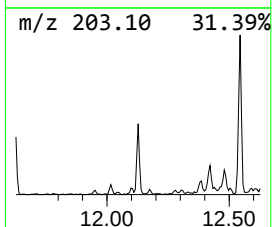
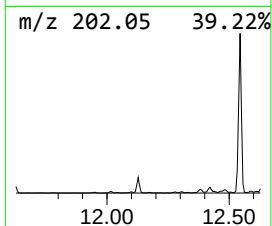
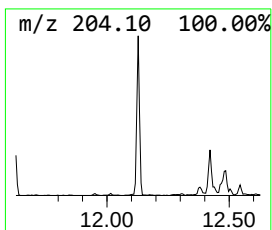
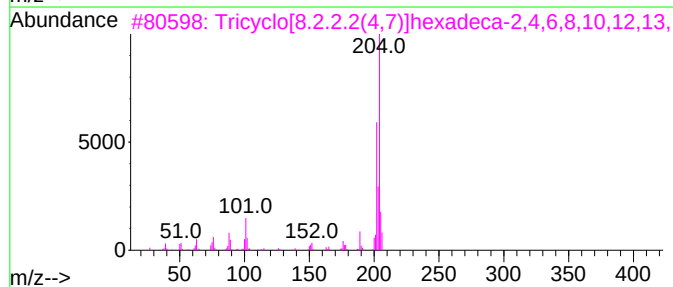
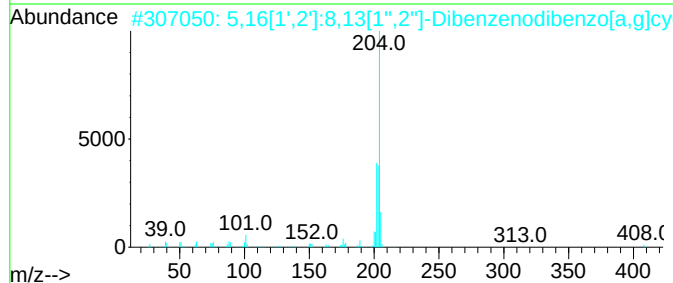
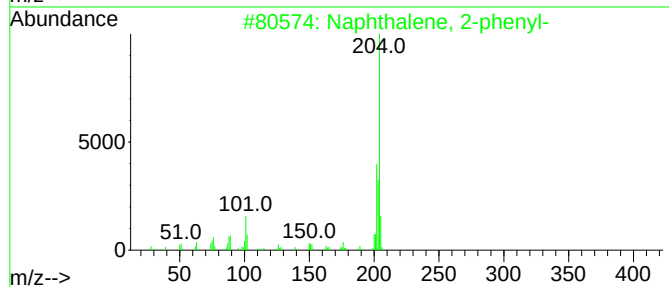
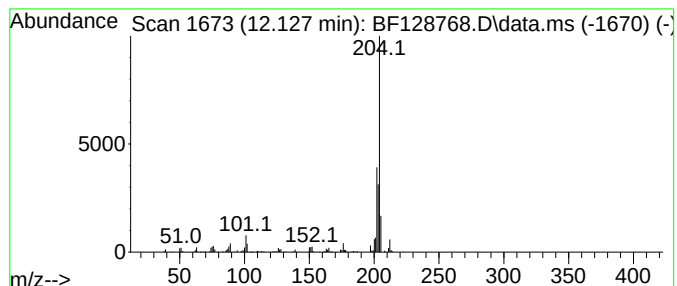
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 17 Naphthalene, 2-phenyl- Concentration Rank 17

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.127 | 10.06 ng | 277908 | Phenanthrene-d10 | 11.333 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Naphthalene, 2-phenyl-              | 204 | C16H12  | 000612-94-2 | 93   |
| 2    |      | 5,16[1',2']:8,13[1'',2'']-Dibenz... | 408 | C32H24  | 005672-97-9 | 91   |
| 3    |      | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12  | 006572-60-7 | 68   |
| 4    |      | Naphthalene, 1-phenyl-              | 204 | C16H12  | 000605-02-7 | 60   |
| 5    |      | 6-Cyanophenanthridine               | 204 | C14H8N2 | 002176-28-5 | 47   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

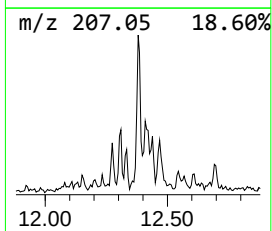
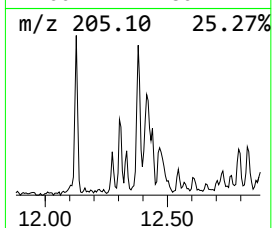
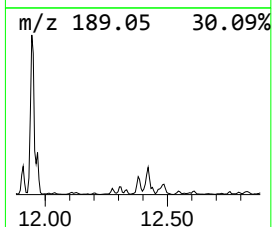
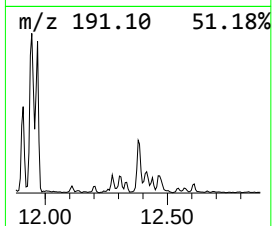
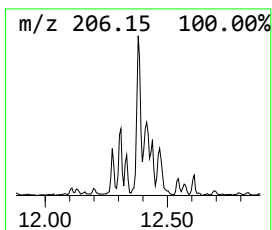
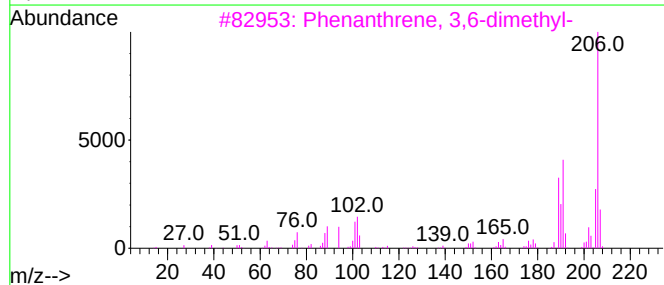
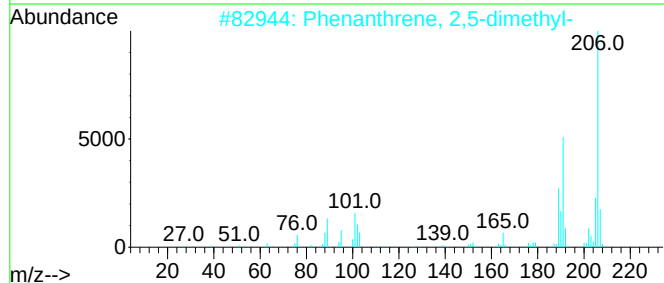
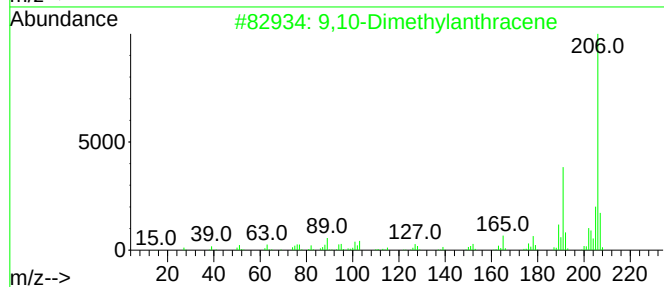
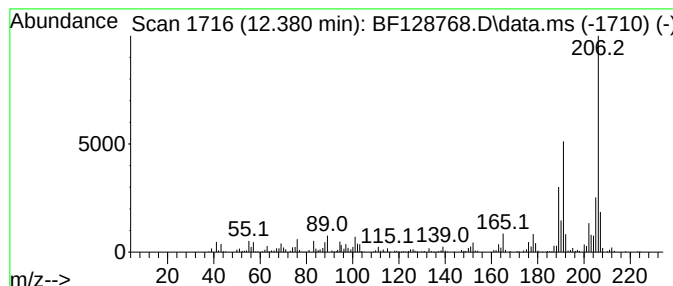
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 9,10-Dimethylantracene Concentration Rank 14

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.380 | 14.14 ng | 390605 | Phenanthrene-d10 | 11.333 |

| Hit# | of 5 | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|------|-----------------------------|-----|---------|-------------|------|
| 1    |      | 9,10-Dimethylantracene      | 206 | C16H14  | 000781-43-1 | 94   |
| 2    |      | Phenanthrene, 2,5-dimethyl- | 206 | C16H14  | 003674-66-6 | 93   |
| 3    |      | Phenanthrene, 3,6-dimethyl- | 206 | C16H14  | 001576-67-6 | 91   |
| 4    |      | di-p-Tolylacetylene         | 206 | C16H14  | 002789-88-0 | 91   |
| 5    |      | Phenanthrene, 2,7-dimethyl- | 206 | C16H14  | 001576-69-8 | 90   |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

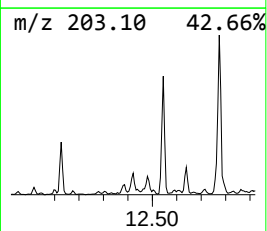
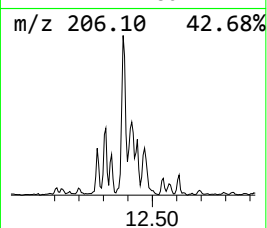
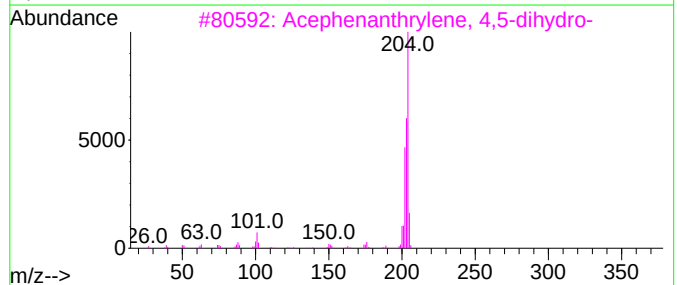
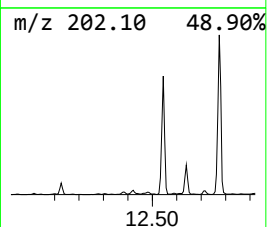
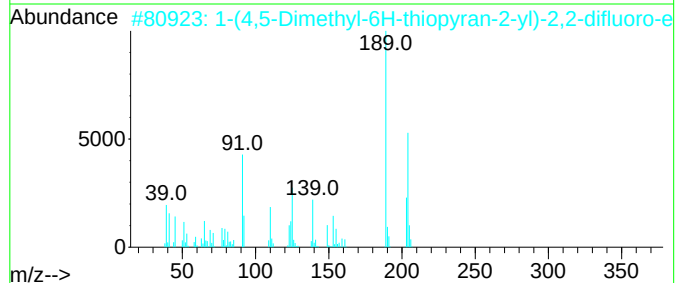
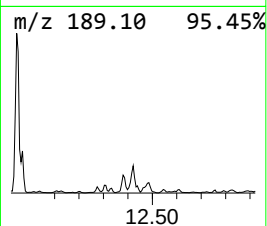
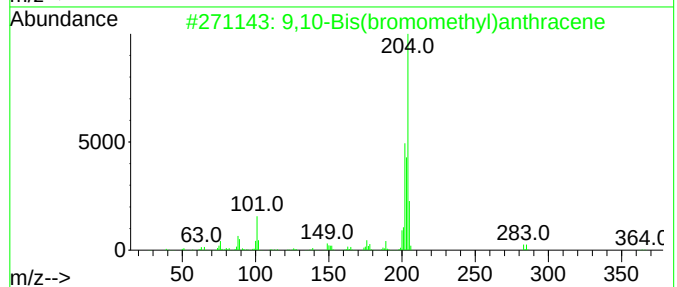
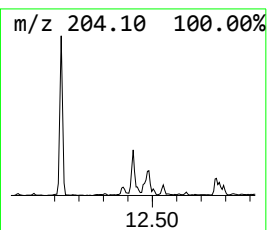
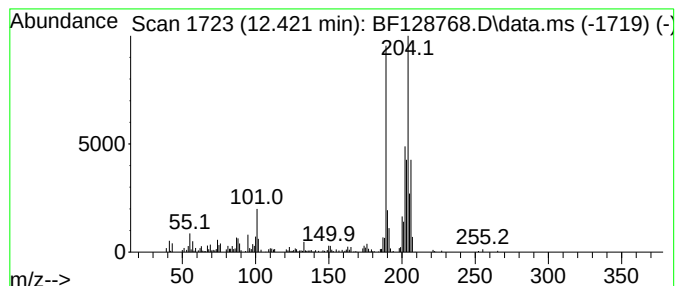
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 19 unknown12.421 Concentration Rank 11

| R.T.   | EstConc  | Area   | Relative to ISTD | R.T.   |
|--------|----------|--------|------------------|--------|
| 12.421 | 15.25 ng | 421180 | Phenanthrene-d10 | 11.333 |

| Hit# | of 5                                                  | Tentative ID | MW         | MolForm      | CAS# | Qual |
|------|-------------------------------------------------------|--------------|------------|--------------|------|------|
| 1    | 9,10-Bis(bromomethyl)anthracene                       | 362          | C16H12Br2  | 034373-96-1  | 49   |      |
| 2    | 1-(4,5-Dimethyl-6H-thiopyran-2-yl)-2,2-difluoroethane | 204          | C9H10F2OS  | 1000318-25-0 | 49   |      |
| 3    | Acephenanthrylene, 4,5-dihydro-                       | 204          | C16H12     | 006232-48-0  | 46   |      |
| 4    | 1H-Indol-6-ylamine, TMS derivative                    | 204          | C11H16N2Si | 1000484-86-1 | 43   |      |
| 5    | Indeno[2,1-a]indene, 5,10-dihydro-                    | 204          | C16H12     | 006543-29-9  | 38   |      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
Data File : BF128768.D  
Acq On : 10 Jun 2022 19:45  
Operator : CG\JU  
Sample : N3203-01  
Misc :  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
GATE-6-JET-GROUT-SPOILS

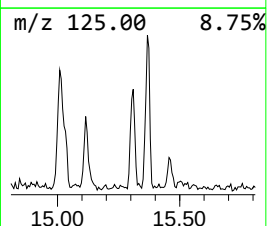
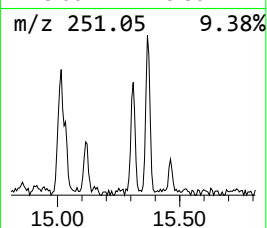
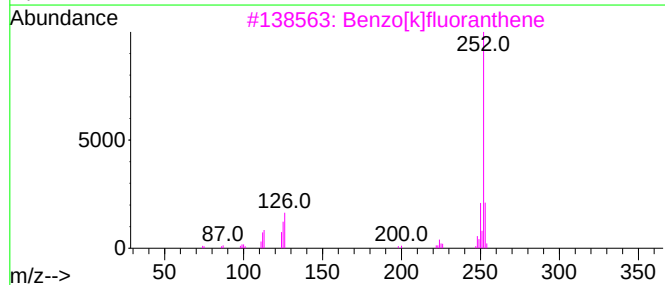
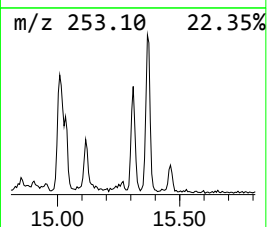
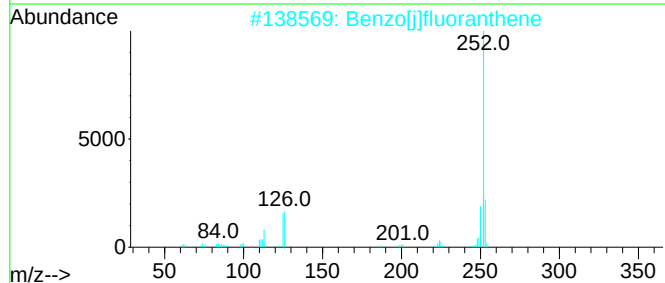
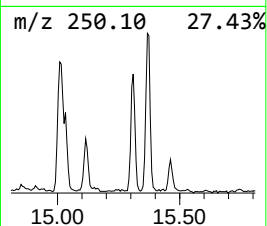
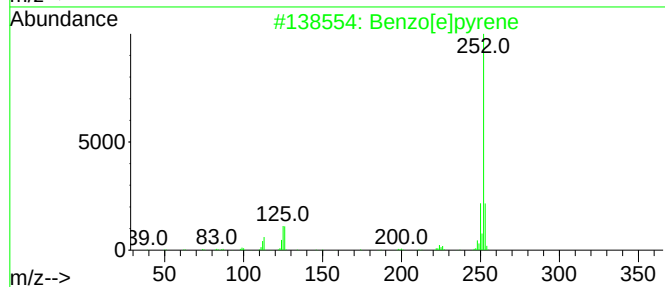
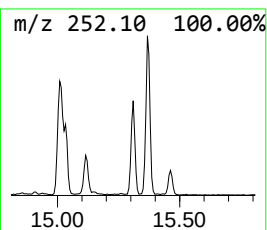
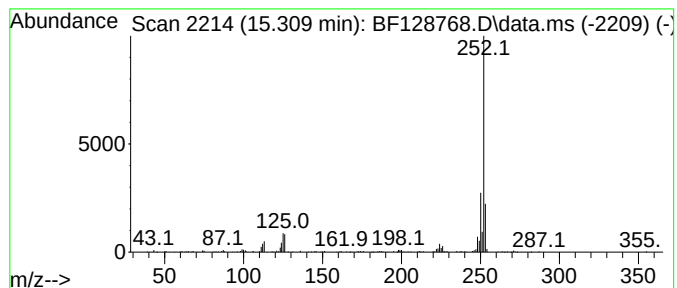
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

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

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Peak Number 20 Benzo[e]pyrene Concentration Rank 19

| R.T.   | EstConc | Area   | Relative to ISTD | R.T.   |
|--------|---------|--------|------------------|--------|
| 15.309 | 9.23 ng | 180714 | Perylene-d12     | 15.433 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | Benzo[e]pyrene       | 252 | C20H12  | 000192-97-2 | 96   |
| 2    |    |   | Benzo[j]fluoranthene | 252 | C20H12  | 000205-82-3 | 93   |
| 3    |    |   | Benzo[k]fluoranthene | 252 | C20H12  | 000207-08-9 | 93   |
| 4    |    |   | Benzo[a]pyrene       | 252 | C20H12  | 000050-32-8 | 91   |
| 5    |    |   | Benzo[b]fluoranthene | 252 | C20H12  | 000205-99-2 | 91   |





Data Path : Z:\svoasrv\HPCHEM1\BNA\_F\Data\BF061022\  
 Data File : BF128768.D  
 Acq On : 10 Jun 2022 19:45  
 Operator : CG\JU  
 Sample : N3203-01  
 Misc :  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 GATE-6-JET-GROUT-SPOILS

Quant Method : Z:\svoasrv\HPCHEM1\BNA\_F\Methods\8270-BF060222.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 |
| 3-Penten-2-one,... | 4.375  | 21.2    | ng    | 421691   | 1                     | 6.798  | 397758 | 20.0 |
| 2-Pentanone, 4-... | 5.045  | 188.1   | ng    | 3740600  | 1                     | 6.798  | 397758 | 20.0 |
| Indane             | 6.981  | 12.3    | ng    | 244577   | 1                     | 6.798  | 397758 | 20.0 |
| Naphthalene, 2-... | 9.357  | 8.8     | ng    | 261006   | 3                     | 9.839  | 592889 | 20.0 |
| Naphthalene, 2,... | 9.433  | 48.6    | ng    | 1442000  | 3                     | 9.839  | 592889 | 20.0 |
| Naphthalene, 2,... | 9.504  | 53.4    | ng    | 1583280  | 3                     | 9.839  | 592889 | 20.0 |
| Naphthalene, 2,... | 9.527  | 27.7    | ng    | 820605   | 3                     | 9.839  | 592889 | 20.0 |
| Naphthalene, 1,... | 9.616  | 23.8    | ng    | 705878   | 3                     | 9.839  | 592889 | 20.0 |
| 9H-Fluorene, 1-... | 10.939 | 16.5    | ng    | 454702   | 4                     | 11.333 | 552541 | 20.0 |
| Naphtho[2,3-b]t... | 11.227 | 14.7    | ng    | 405417   | 4                     | 11.333 | 552541 | 20.0 |
| 4-Methylnaphtho... | 11.739 | 10.3    | ng    | 285625   | 4                     | 11.333 | 552541 | 20.0 |
| Phenanthrene, 2... | 11.833 | 25.0    | ng    | 690715   | 4                     | 11.333 | 552541 | 20.0 |
| Phenanthrene, 1... | 11.863 | 24.1    | ng    | 666291   | 4                     | 11.333 | 552541 | 20.0 |
| 1H-Cyclopropa[1... | 11.910 | 10.0    | ng    | 275781   | 4                     | 11.333 | 552541 | 20.0 |
| 4H-Cyclopenta[d... | 11.945 | 35.5    | ng    | 979705   | 4                     | 11.333 | 552541 | 20.0 |
| Phenanthrene, 4... | 11.968 | 14.2    | ng    | 392953   | 4                     | 11.333 | 552541 | 20.0 |
| Naphthalene, 2-... | 12.127 | 10.1    | ng    | 277908   | 4                     | 11.333 | 552541 | 20.0 |
| 9,10-Dimethylan... | 12.380 | 14.1    | ng    | 390605   | 4                     | 11.333 | 552541 | 20.0 |
| unknown12.421      | 12.421 | 15.3    | ng    | 421180   | 4                     | 11.333 | 552541 | 20.0 |
| Benzo[e]pyrene     | 15.309 | 9.2     | ng    | 180714   | 6                     | 15.433 | 391652 | 20.0 |