

Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
 Data File : BF086132.D  
 Acq On : 7 Apr 2016 15:17  
 Operator : UM/SJ  
 Sample : H2230-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4-040116

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 5.322    | 281        | 283      | 295       | rBV   | 819600      | 1331462    | 34.98%       | 1.460%     |
| 2      | 6.373    | 373        | 375      | 379       | rVV   | 794056      | 1040922    | 27.35%       | 1.142%     |
| 3      | 6.499    | 384        | 386      | 388       | rVV   | 2084829     | 2258793    | 59.35%       | 2.478%     |
| 4      | 6.739    | 404        | 407      | 409       | rBV   | 482015      | 647219     | 17.01%       | 0.710%     |
| 5      | 6.887    | 418        | 420      | 423       | rBV   | 2127719     | 2049450    | 53.85%       | 2.248%     |
| 6      | 7.310    | 454        | 457      | 459       | rBV   | 1480582     | 1922869    | 50.52%       | 2.109%     |
| 7      | 8.019    | 515        | 519      | 522       | rVB   | 961211      | 1406975    | 36.97%       | 1.543%     |
| 8      | 8.613    | 567        | 571      | 577       | rVB4  | 387291      | 1175624    | 30.89%       | 1.290%     |
| 9      | 8.979    | 599        | 603      | 607       | rBV4  | 283332      | 740423     | 19.45%       | 0.812%     |
| 10     | 9.105    | 611        | 614      | 615       | rBV   | 2546837     | 3499510    | 91.95%       | 3.839%     |
| 11     | 9.208    | 621        | 623      | 628       | rVB2  | 285459      | 583909     | 15.34%       | 0.640%     |
| 12     | 9.562    | 652        | 654      | 658       | rBV2  | 387396      | 600287     | 15.77%       | 0.658%     |
| 13     | 9.768    | 669        | 672      | 674       | rVV   | 1005647     | 1659723    | 43.61%       | 1.821%     |
| 14     | 9.951    | 687        | 688      | 692       | rBV3  | 370346      | 433876     | 11.40%       | 0.476%     |
| 15     | 10.031   | 692        | 695      | 698       | rVB   | 248807      | 423500     | 11.13%       | 0.465%     |
| 16     | 10.568   | 740        | 742      | 744       | rVB   | 2083105     | 2174480    | 57.13%       | 2.385%     |
| 17     | 10.751   | 755        | 758      | 760       | rBV2  | 374751      | 588972     | 15.47%       | 0.646%     |
| 18     | 10.808   | 760        | 763      | 764       | rBV2  | 451325      | 884640     | 23.24%       | 0.970%     |
| 19     | 10.922   | 770        | 773      | 777       | rBV4  | 627427      | 1540897    | 40.49%       | 1.690%     |
| 20     | 11.048   | 781        | 784      | 785       | rVV2  | 689930      | 1326945    | 34.86%       | 1.456%     |
| 21     | 11.071   | 785        | 786      | 790       | rVV3  | 458445      | 649003     | 17.05%       | 0.712%     |
| 22     | 11.139   | 790        | 792      | 795       | rVB2  | 312822      | 391694     | 10.29%       | 0.430%     |
| 23     | 11.254   | 800        | 802      | 804       | rVB   | 1183272     | 1100577    | 28.92%       | 1.207%     |
| 24     | 11.288   | 804        | 805      | 808       | rBV2  | 388124      | 834915     | 21.94%       | 0.916%     |
| 25     | 11.436   | 815        | 818      | 823       | rBV6  | 262889      | 930108     | 24.44%       | 1.020%     |
| 26     | 11.642   | 834        | 836      | 838       | rBV2  | 314201      | 727317     | 19.11%       | 0.798%     |
| 27     | 11.676   | 838        | 839      | 842       | rVV3  | 372995      | 989390     | 26.00%       | 1.085%     |
| 28     | 11.802   | 846        | 850      | 852       | rVB4  | 457522      | 1139604    | 29.94%       | 1.250%     |
| 29     | 11.996   | 864        | 867      | 868       | rBV2  | 339362      | 819635     | 21.54%       | 0.899%     |
| 30     | 12.214   | 882        | 886      | 889       | rBV5  | 397758      | 1582399    | 41.58%       | 1.736%     |
| 31     | 12.396   | 898        | 902      | 906       | rVB5  | 418152      | 1675453    | 44.02%       | 1.838%     |
| 32     | 12.477   | 906        | 909      | 911       | rVV2  | 418385      | 802302     | 21.08%       | 0.880%     |
| 33     | 12.625   | 920        | 922      | 923       | rVV   | 373153      | 729500     | 19.17%       | 0.800%     |
| 34     | 12.728   | 929        | 931      | 932       | rVV   | 309087      | 503924     | 13.24%       | 0.553%     |

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 MW-4-040116

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|    |        |      |      |      |      |         |         |         |        |
|----|--------|------|------|------|------|---------|---------|---------|--------|
| 35 | 12.785 | 932  | 936  | 937  | rVV4 | 303132  | 782457  | 20.56%  | 0.858% |
| 36 | 12.842 | 937  | 941  | 943  | rVV  | 3323714 | 3806051 | 100.00% | 4.175% |
| 37 | 12.945 | 946  | 950  | 951  | rVV4 | 386663  | 970865  | 25.51%  | 1.065% |
| 38 | 12.979 | 951  | 953  | 955  | rVV3 | 396207  | 903431  | 23.74%  | 0.991% |
| 39 | 13.139 | 965  | 967  | 968  | rBV  | 369183  | 409259  | 10.75%  | 0.449% |
| 40 | 13.162 | 968  | 969  | 971  | rVV2 | 323922  | 538872  | 14.16%  | 0.591% |
| 41 | 13.242 | 971  | 976  | 977  | rVV5 | 532488  | 1673225 | 43.96%  | 1.835% |
| 42 | 13.265 | 977  | 978  | 981  | rVB2 | 508141  | 783289  | 20.58%  | 0.859% |
| 43 | 13.322 | 981  | 983  | 986  | rBV3 | 491866  | 1604335 | 42.15%  | 1.760% |
| 44 | 13.402 | 988  | 990  | 992  | rVB2 | 479026  | 740266  | 19.45%  | 0.812% |
| 45 | 13.517 | 997  | 1000 | 1002 | rBV2 | 444646  | 755427  | 19.85%  | 0.829% |
| 46 | 13.631 | 1008 | 1010 | 1011 | rBV  | 240635  | 451017  | 11.85%  | 0.495% |
| 47 | 13.677 | 1011 | 1014 | 1016 | rVB4 | 327989  | 756565  | 19.88%  | 0.830% |
| 48 | 13.745 | 1019 | 1020 | 1023 | rBV  | 349810  | 395321  | 10.39%  | 0.434% |
| 49 | 13.825 | 1023 | 1027 | 1031 | rBV5 | 367804  | 1145527 | 30.10%  | 1.257% |
| 50 | 13.894 | 1031 | 1033 | 1034 | rBV  | 1150212 | 1373791 | 36.09%  | 1.507% |
| 51 | 13.917 | 1034 | 1035 | 1037 | rVB2 | 404101  | 542806  | 14.26%  | 0.595% |
| 52 | 13.974 | 1037 | 1040 | 1041 | rBV2 | 419278  | 895939  | 23.54%  | 0.983% |
| 53 | 14.168 | 1054 | 1057 | 1058 | rBV2 | 453141  | 994527  | 26.13%  | 1.091% |
| 54 | 14.260 | 1061 | 1065 | 1068 | rBV5 | 381285  | 1617529 | 42.50%  | 1.774% |
| 55 | 14.477 | 1080 | 1084 | 1086 | rBV4 | 335186  | 1145148 | 30.09%  | 1.256% |
| 56 | 14.522 | 1086 | 1088 | 1090 | rVB3 | 388535  | 752362  | 19.77%  | 0.825% |
| 57 | 14.740 | 1103 | 1107 | 1110 | rBV5 | 122609  | 421421  | 11.07%  | 0.462% |
| 58 | 14.808 | 1110 | 1113 | 1119 | rVB7 | 148317  | 593083  | 15.58%  | 0.651% |
| 59 | 14.922 | 1119 | 1123 | 1124 | rBV3 | 344951  | 713406  | 18.74%  | 0.783% |
| 60 | 14.945 | 1124 | 1125 | 1126 | rBV  | 433432  | 509948  | 13.40%  | 0.559% |
| 61 | 15.071 | 1134 | 1136 | 1138 | rVB3 | 334411  | 610137  | 16.03%  | 0.669% |
| 62 | 15.117 | 1138 | 1140 | 1143 | rVB2 | 350792  | 681505  | 17.91%  | 0.748% |
| 63 | 15.185 | 1143 | 1146 | 1147 | rBV  | 374689  | 533269  | 14.01%  | 0.585% |
| 64 | 15.288 | 1153 | 1155 | 1158 | rVV  | 557834  | 864095  | 22.70%  | 0.948% |
| 65 | 15.380 | 1160 | 1163 | 1165 | rVB2 | 287852  | 565712  | 14.86%  | 0.621% |
| 66 | 15.425 | 1165 | 1167 | 1168 | rBV  | 319767  | 527079  | 13.85%  | 0.578% |
| 67 | 15.620 | 1182 | 1184 | 1187 | rVB3 | 384174  | 757606  | 19.91%  | 0.831% |
| 68 | 15.688 | 1188 | 1190 | 1192 | rBV  | 376531  | 771644  | 20.27%  | 0.846% |
| 69 | 15.894 | 1206 | 1208 | 1210 | rVV  | 386428  | 510103  | 13.40%  | 0.560% |
| 70 | 16.031 | 1217 | 1220 | 1222 | rBV2 | 304938  | 414364  | 10.89%  | 0.455% |
| 71 | 16.203 | 1231 | 1235 | 1237 | rVB3 | 342757  | 514367  | 13.51%  | 0.564% |

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Misc :  
ALS Vial : 9 Sample Multiplier: 1

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BNA\_F  
ClientSampleId :  
MW-4-040116

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.2 Max Peaks: 100  
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
Peak separation: 5

Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 16.271 | 1240 | 1241 | 1244 | rVV3 | 365086 | 510572  | 13.41% | 0.560% |
| 73  | 16.363 | 1246 | 1249 | 1253 | rVV3 | 400251 | 937103  | 24.62% | 1.028% |
| 74  | 16.614 | 1269 | 1271 | 1273 | rVV3 | 298672 | 431301  | 11.33% | 0.473% |
| 75  | 16.820 | 1285 | 1289 | 1293 | rVV3 | 369640 | 591281  | 15.54% | 0.649% |
| 76  | 16.877 | 1293 | 1294 | 1296 | rVV2 | 285782 | 411250  | 10.81% | 0.451% |
| 77  | 16.934 | 1296 | 1299 | 1301 | rVB2 | 325035 | 426250  | 11.20% | 0.468% |
| 78  | 17.300 | 1326 | 1331 | 1333 | rBV4 | 386622 | 1154092 | 30.32% | 1.266% |
| 79  | 17.334 | 1333 | 1334 | 1337 | rVB2 | 357026 | 501492  | 13.18% | 0.550% |
| 80  | 17.426 | 1340 | 1342 | 1344 | rVB2 | 330414 | 479130  | 12.59% | 0.526% |
| 81  | 17.471 | 1344 | 1346 | 1349 | rBV2 | 271797 | 513007  | 13.48% | 0.563% |
| 82  | 17.563 | 1352 | 1354 | 1355 | rBV  | 339727 | 455319  | 11.96% | 0.499% |
| 83  | 17.608 | 1355 | 1358 | 1360 | rVB3 | 361324 | 829241  | 21.79% | 0.910% |
| 84  | 17.700 | 1363 | 1366 | 1367 | rBV2 | 314321 | 699302  | 18.37% | 0.767% |
| 85  | 17.768 | 1370 | 1372 | 1373 | rBV2 | 347081 | 409774  | 10.77% | 0.449% |
| 86  | 17.814 | 1373 | 1376 | 1379 | rVB4 | 382040 | 999597  | 26.26% | 1.096% |
| 87  | 17.860 | 1379 | 1380 | 1383 | rVB2 | 396188 | 560922  | 14.74% | 0.615% |
| 88  | 17.997 | 1389 | 1392 | 1394 | rVB2 | 363131 | 642917  | 16.89% | 0.705% |
| 89  | 18.043 | 1394 | 1396 | 1398 | rBV2 | 417630 | 998157  | 26.23% | 1.095% |
| 90  | 18.111 | 1401 | 1402 | 1404 | rBV2 | 224070 | 435599  | 11.44% | 0.478% |
| 91  | 18.249 | 1412 | 1414 | 1415 | rVB2 | 328986 | 451163  | 11.85% | 0.495% |
| 92  | 18.294 | 1415 | 1418 | 1420 | rVB3 | 384575 | 958546  | 25.18% | 1.051% |
| 93  | 18.374 | 1423 | 1425 | 1429 | rVB3 | 397786 | 993745  | 26.11% | 1.090% |
| 94  | 18.489 | 1431 | 1435 | 1436 | rBV  | 432091 | 410967  | 10.80% | 0.451% |
| 95  | 18.523 | 1436 | 1438 | 1440 | rBV2 | 351702 | 856380  | 22.50% | 0.939% |
| 96  | 18.637 | 1447 | 1448 | 1451 | rBV2 | 288979 | 655528  | 17.22% | 0.719% |
| 97  | 18.751 | 1454 | 1458 | 1460 | rBV4 | 377419 | 1239271 | 32.56% | 1.359% |
| 98  | 18.900 | 1467 | 1471 | 1474 | rBV3 | 374687 | 1006759 | 26.45% | 1.104% |
| 99  | 18.991 | 1476 | 1479 | 1480 | rBV2 | 316014 | 550370  | 14.46% | 0.604% |
| 100 | 19.323 | 1503 | 1508 | 1511 | rVB4 | 455743 | 865560  | 22.74% | 0.949% |

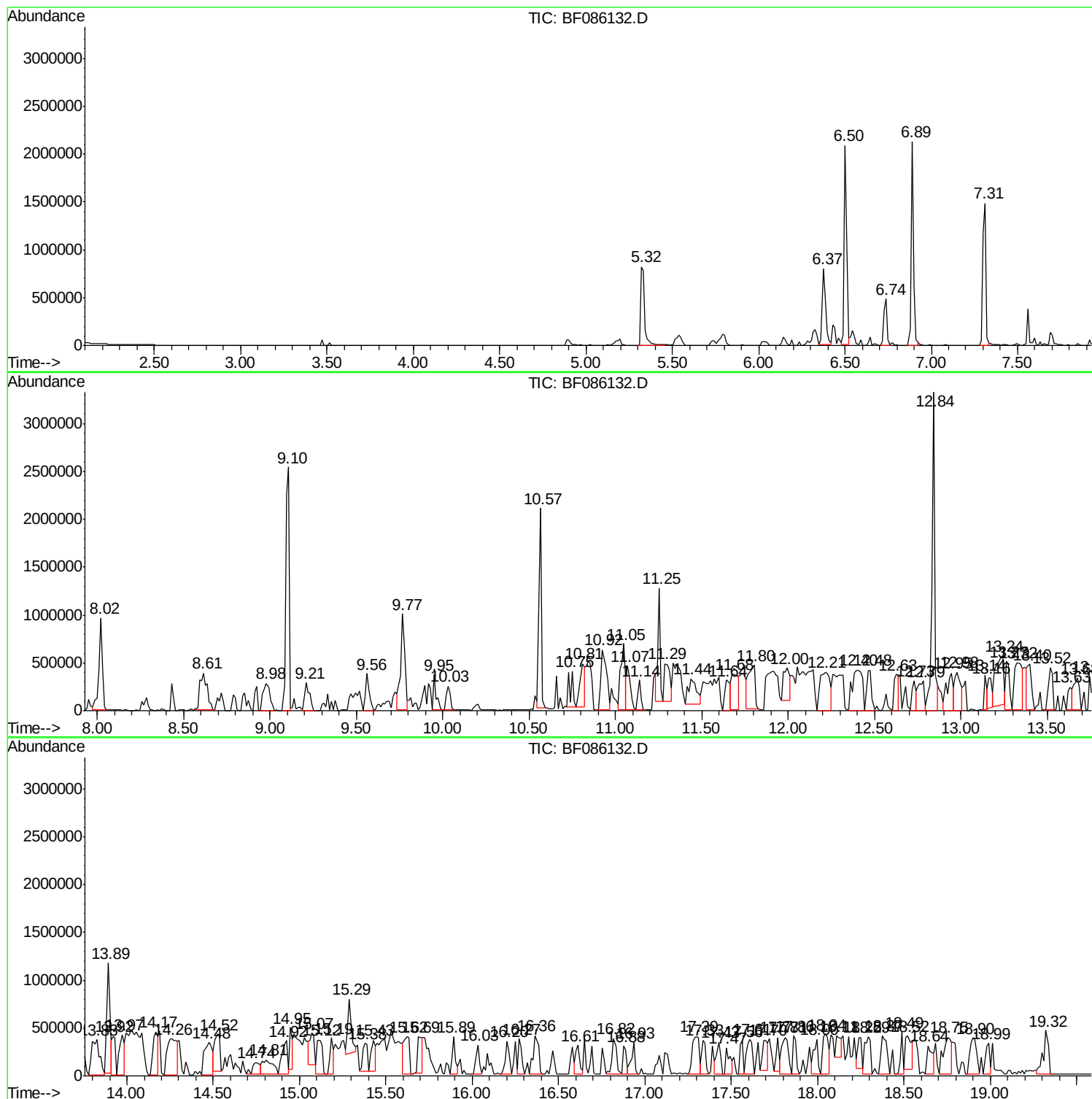
Sum of corrected areas: 91166640

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Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
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Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
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MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

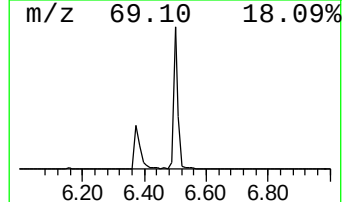
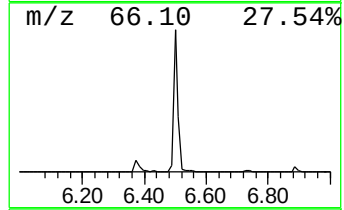
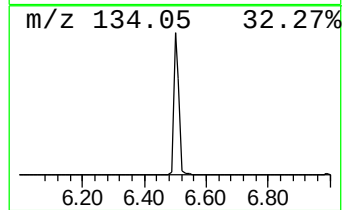
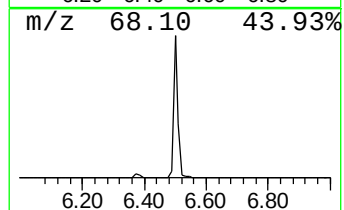
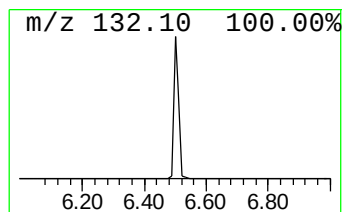
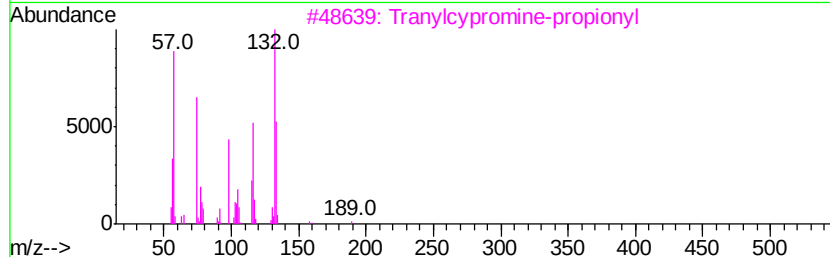
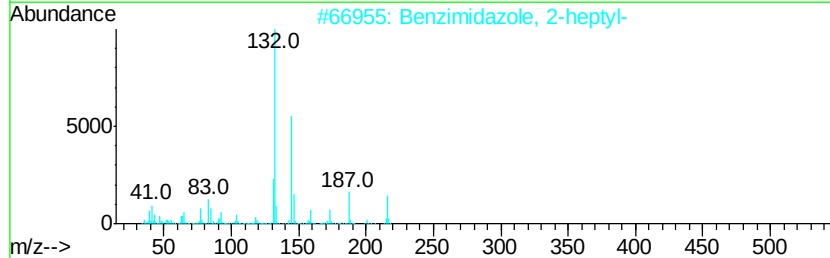
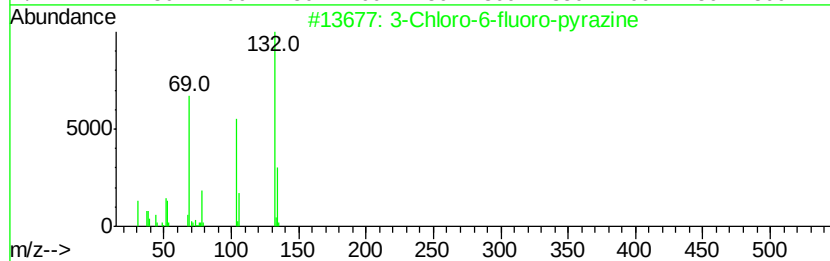
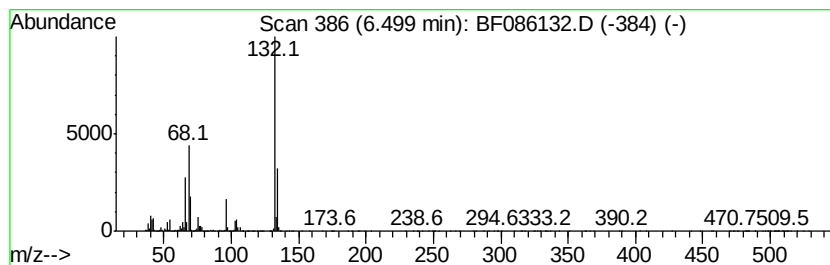
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown6.50 Concentration Rank 1

| R.T. | EstConc  | Area    | Relative to ISTD       | R.T. |
|------|----------|---------|------------------------|------|
| 6.50 | 69.80 ng | 2258790 | 1,4-Dichlorobenzene-d4 | 6.74 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | 3-Chloro-6-fluoro-pyrazine          | 132 | C4H2ClFN2 | 1000146-10-7 | 27   |
| 2    |    | Benzimidazole, 2-heptyl-            | 216 | C14H20N2  | 005851-49-0  | 10   |
| 3    |    | Tranvlcypromine-propionyl           | 189 | C12H15NO  | 1000123-86-3 | 10   |
| 4    |    | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12    | 028749-81-7  | 9    |
| 5    |    | Imidazole, 4,5-dicyano-1-methyl-    | 132 | C6H4N4    | 019485-35-9  | 9    |



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Misc :  
ALS Vial : 9 Sample Multiplier: 1

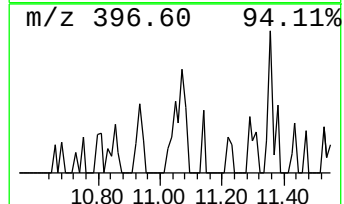
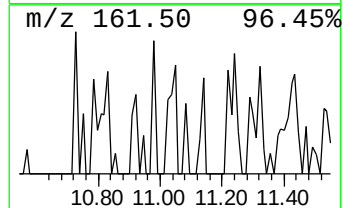
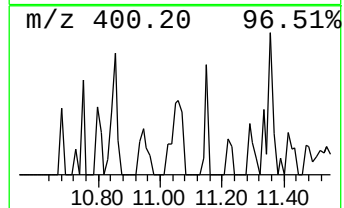
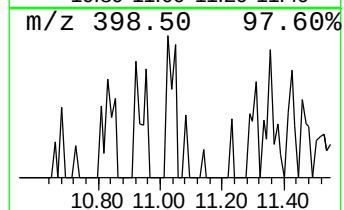
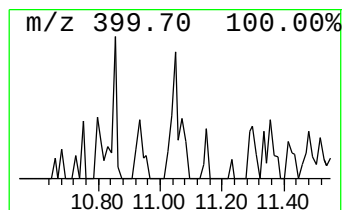
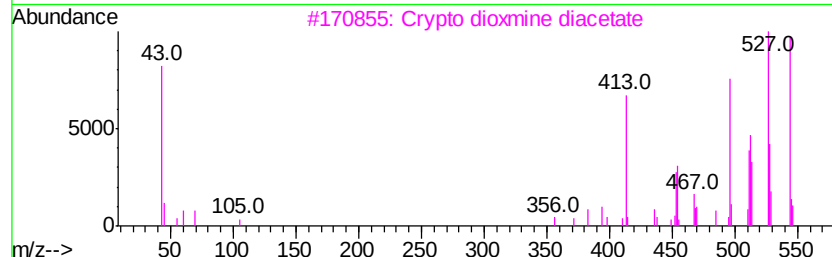
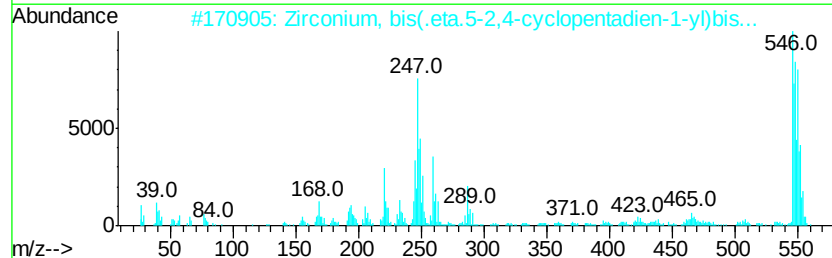
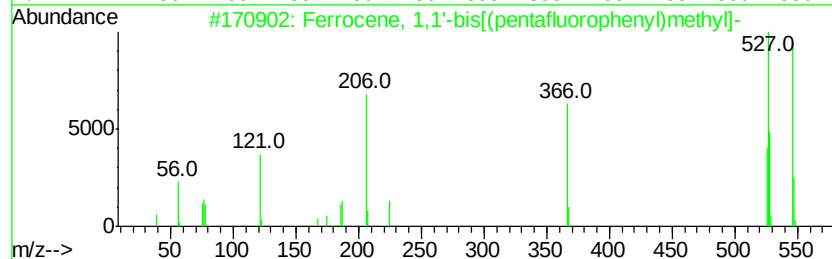
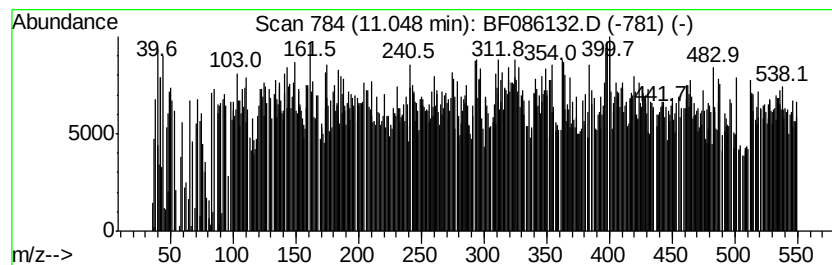
Instrument :  
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ClientSampleId :  
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Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 unknown11.05 Concentration Rank 9

| R.T.  | EstConc  | Area    | Relative to ISTD                    |     | R.T.        |              |      |
|-------|----------|---------|-------------------------------------|-----|-------------|--------------|------|
| 11.05 | 24.11 ng | 1326950 | Phenanthrene-d10                    |     | 11.25       |              |      |
| Hit#  | of       | 5       | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
| 1     |          |         | Ferrocene, 1,1'-bis[(pentafluoro... | 546 | C24H12F10Fe | 055494-16-1  | 25   |
| 2     |          |         | Zirconium, bis(.eta.5-2,4-cvclop... | 546 | C28H30Zr2   | 119144-91-1  | 11   |
| 3     |          |         | Crypto dioxmine diacetate           | 544 | C31H48N2O6  | 1000128-11-7 | 11   |
| 4     |          |         | Osmium methyl, (.eta.-5-cyclopen... | 548 | C22H30OsP2  | 1000158-92-4 | 10   |
| 5     |          |         | 2,4,6-Tri(4-bromophenyl)pyrimidine  | 542 | C22H13Br3N2 | 1000070-62-6 | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

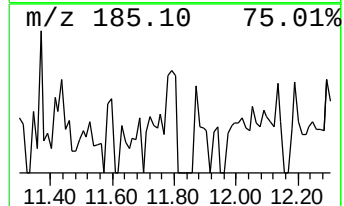
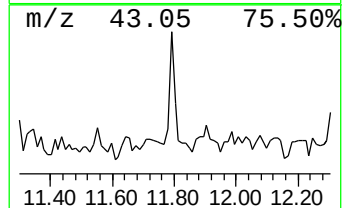
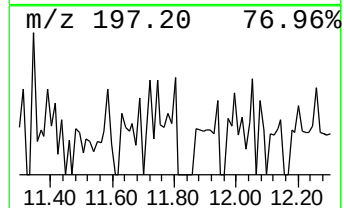
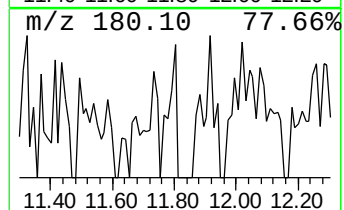
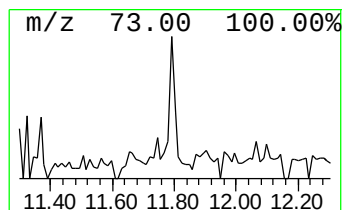
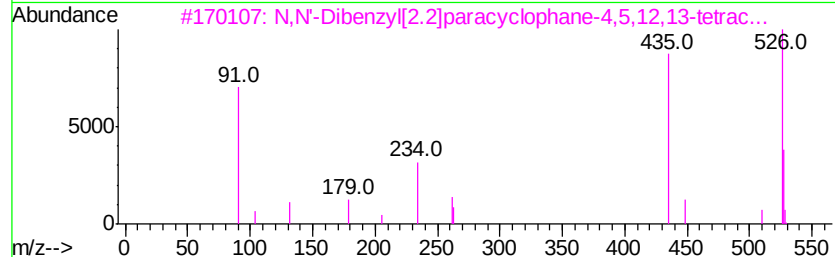
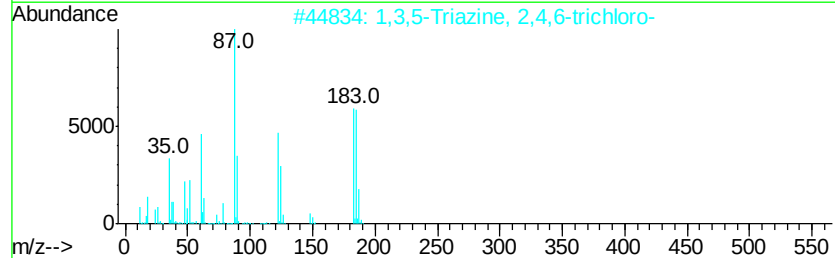
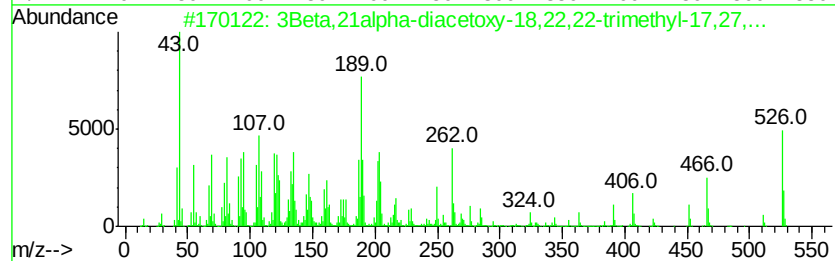
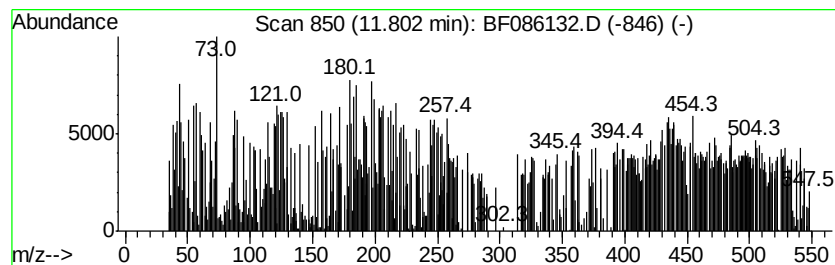
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TIC Integration Parameters: LSCINT.P

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Peak Number 5 unknown11.80 Concentration Rank 18

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 11.80 | 20.71 ng | 1139600 | Phenanthrene-d10 | 11.25 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#        | Qual |
|------|----|-------------------------------------|-----|-------------|-------------|------|
| 1    | 5  | 3Beta,21alpha-diacetoxv-18,22,22... | 526 | C34H54O4    | 027832-84-4 | 25   |
| 2    |    | 1,3,5-Triazine, 2,4,6-trichloro-    | 183 | C3Cl3N3     | 000108-77-0 | 25   |
| 3    |    | N,N'-Dibenzyl[2.2]paracyclophane... | 526 | C34H26N2O4  | 155819-84-4 | 10   |
| 4    |    | Lanosta-7,9(11)-dien-18-oic acid... | 526 | C32H46O6    | 056143-26-1 | 10   |
| 5    |    | 9,9'-Dichloro-7,7'-dihydro-7,7'-... | 526 | C34H16Cl2O2 | 024092-43-1 | 10   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

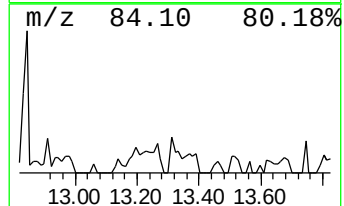
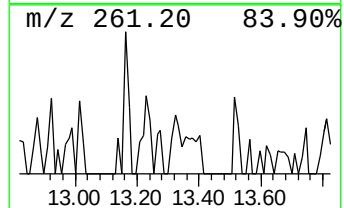
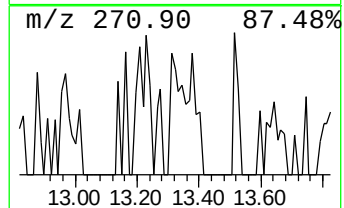
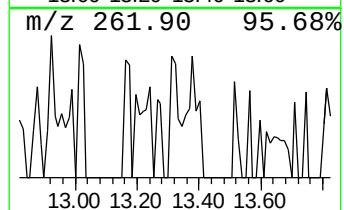
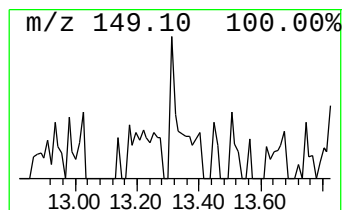
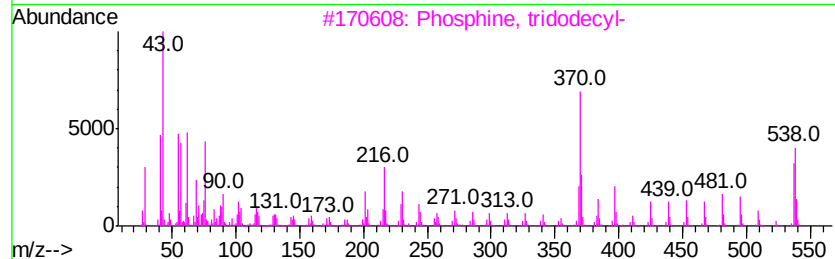
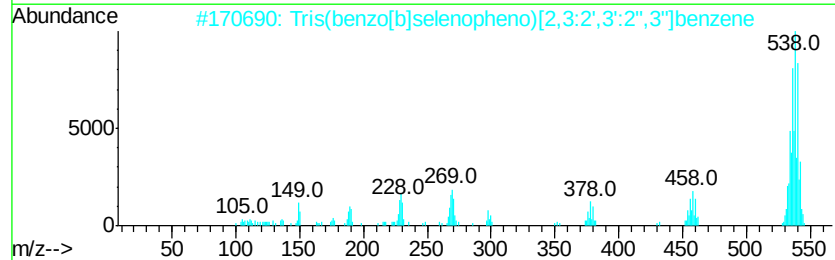
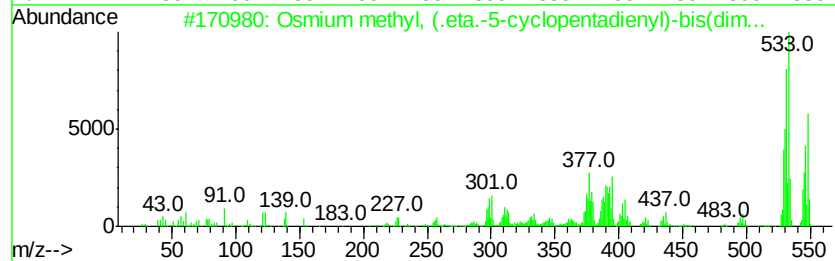
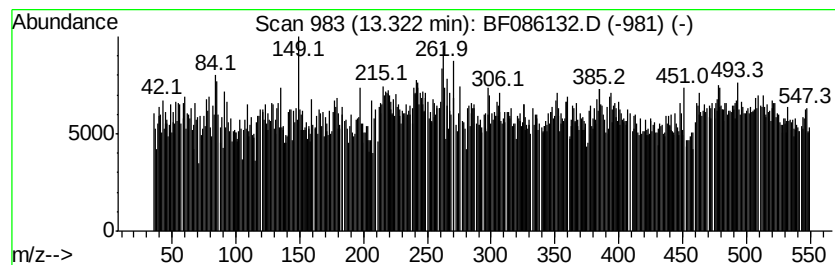
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TIC Integration Parameters: LSCINT.P

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Peak Number 9 Osmium methyl, (.eta.-5-cyc... Concentration Rank 11

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 13.32 | 23.36 ng | 1604340 | Chrysene-d12     | 13.89 |

| Hit# | of | Tentative ID                           | MW  | MolForm    | CAS#         | Qual |
|------|----|----------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Osmium methyl, (.eta.-5-cyclopenten... | 548 | C22H300sP2 | 1000158-92-4 | 60   |
| 2    |    | Tris(benzo[b]selenopheno)[2,3:2'...    | 540 | C24H12Se3  | 107210-82-2  | 20   |
| 3    |    | Phosphine, tridodecyl-                 | 539 | C36H75P    | 006411-24-1  | 15   |
| 4    |    | 5-Germaspiro[4.4]nona-1,3,6,8-te...    | 538 | C36H32Ge   | 150479-95-1  | 10   |
| 5    |    | Distannoxane, hexabutyl-               | 598 | C24H540Sn2 | 000056-35-9  | 9    |





Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

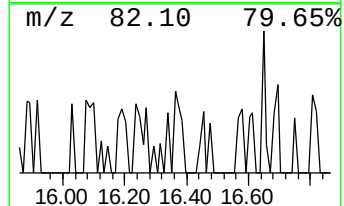
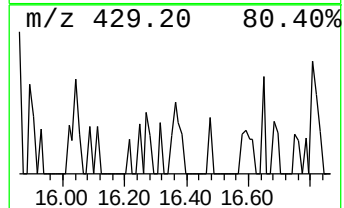
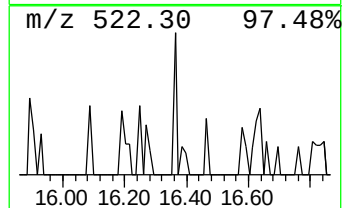
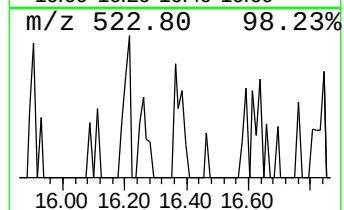
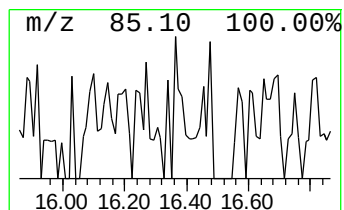
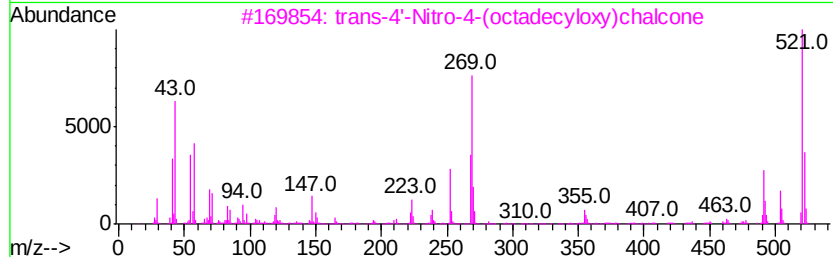
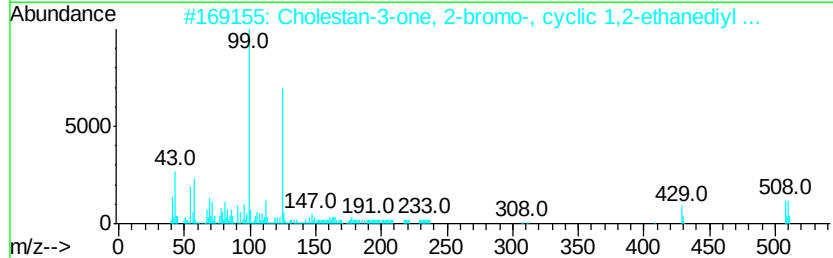
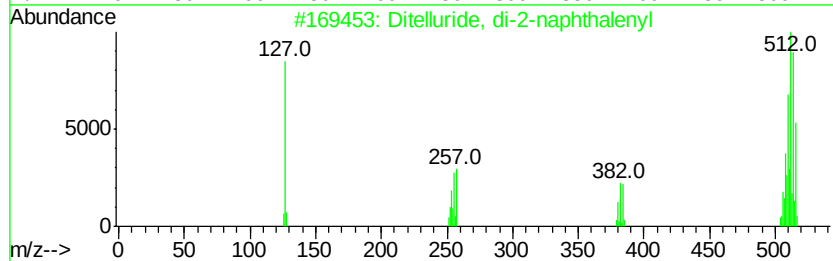
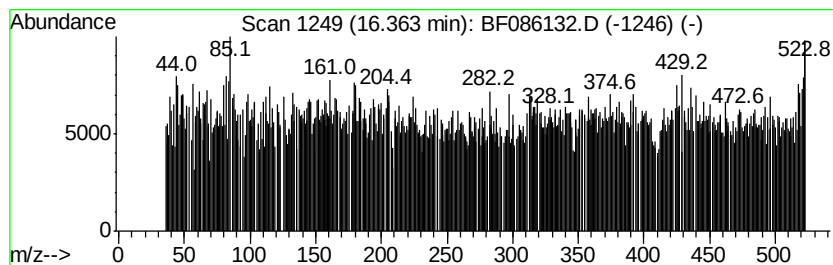
Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 11 unknown16.36 Concentration Rank 17

| R.T.    | EstConc  | Area                                 | Relative to ISTD | R.T.        |             |      |
|---------|----------|--------------------------------------|------------------|-------------|-------------|------|
| 16.36   | 21.69 ng | 937103                               | Perylene-d12     | 15.29       |             |      |
| Hit# of | 5        | Tentative ID                         | MW               | MolForm     | CAS#        | Qual |
| 1       |          | Ditelluride, di-2-naphthalenyl       | 514              | C20H14Te2   | 001666-12-2 | 46   |
| 2       |          | Cholestan-3-one, 2-bromo-, cyclic... | 508              | C29H49BrO2  | 056052-89-2 | 10   |
| 3       |          | trans-4'-Nitro-4-(octadecyloxy)c...  | 521              | C33H47NO4   | 122207-17-4 | 7    |
| 4       |          | Stannane, tributyl[(1-oxooctadec...  | 574              | C30H62O2Sn  | 004027-13-8 | 6    |
| 5       |          | Estra-1,3,5(10)-trien-17-one, 2,...  | 518              | C27H46O4Si3 | 077904-52-0 | 4    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

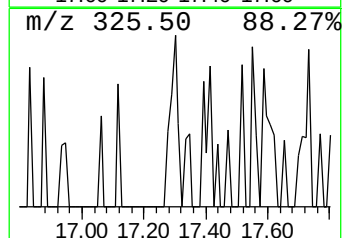
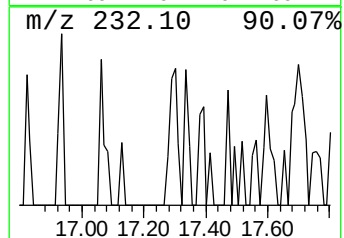
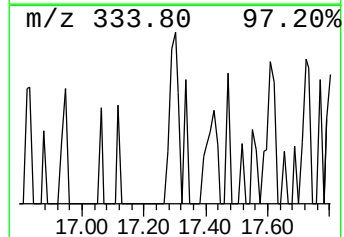
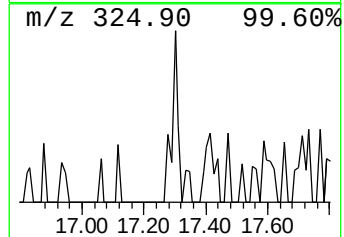
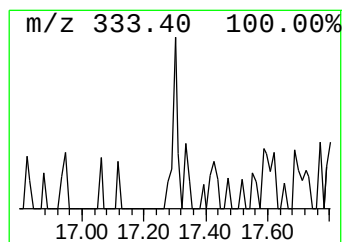
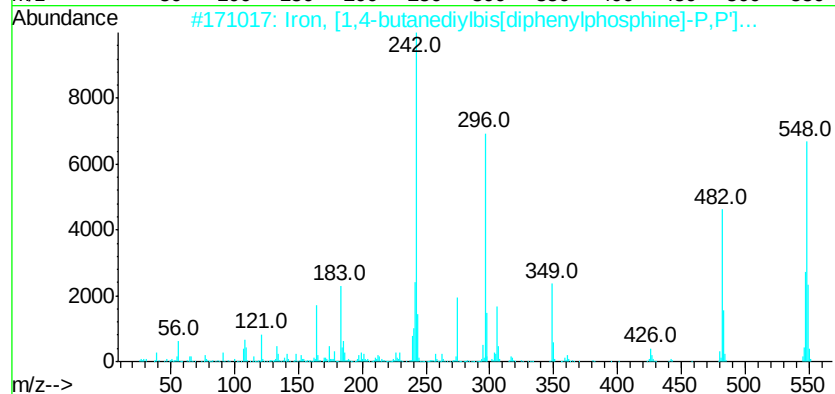
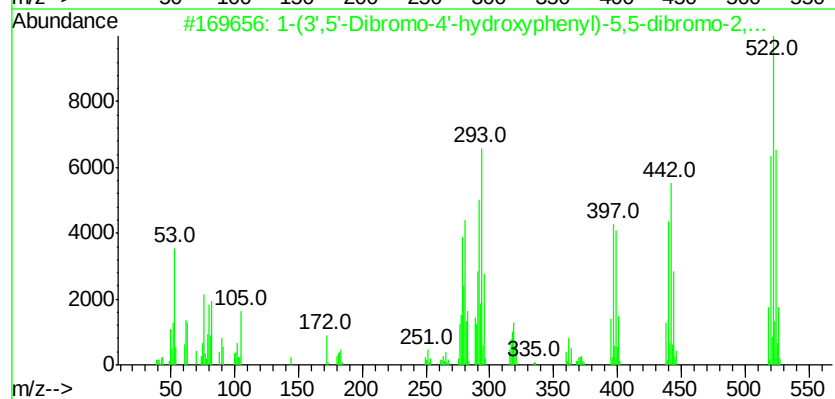
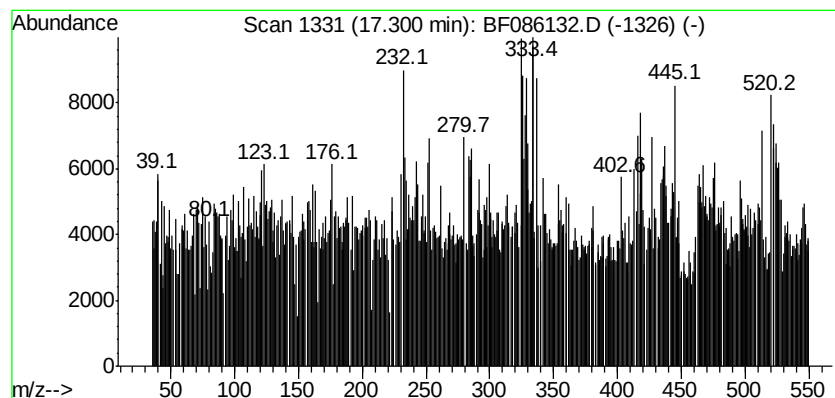
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 12 unknown17.30 Concentration Rank 7

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 17.30 | 26.71 ng | 1154090 | Perylene-d12     | 15.29 |

| Hit# | of    | Tentative ID                   | MW  | MolForm      | CAS#        | Qual |
|------|-------|--------------------------------|-----|--------------|-------------|------|
| 1    | 3'    | 5'-Dibromo-4'-hydroxyphenyl... | 518 | C10H6Br4N2O3 | 083809-80-7 | 46   |
| 2    | Iron, | [1,4-butanediylbis[diphenyl... | 548 | C33H34FeP2   | 097959-87-0 | 10   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

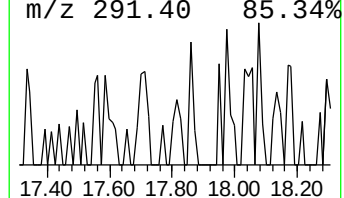
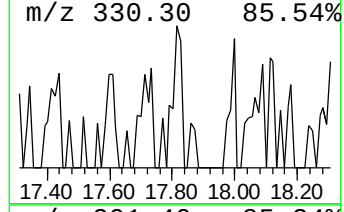
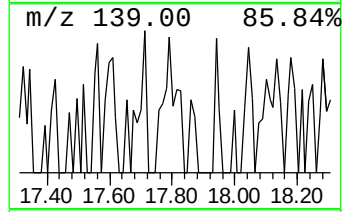
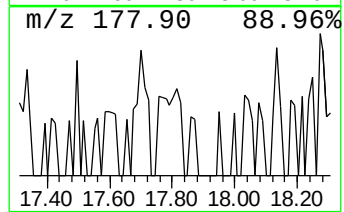
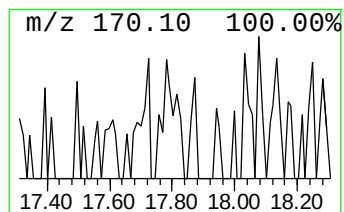
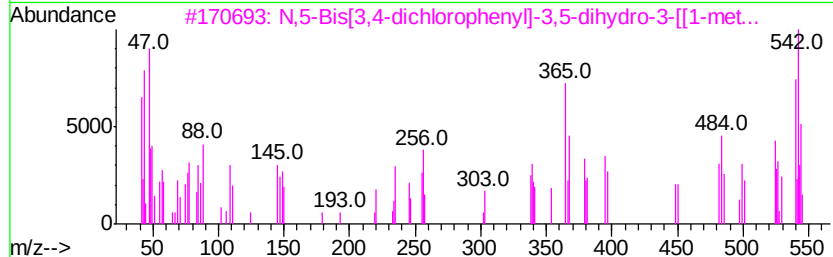
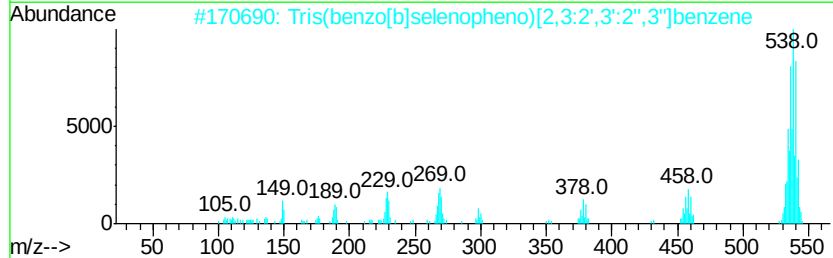
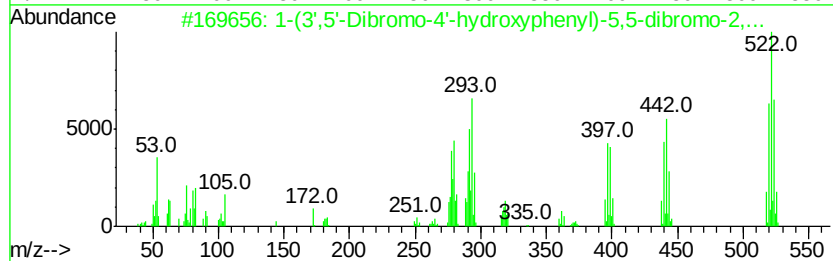
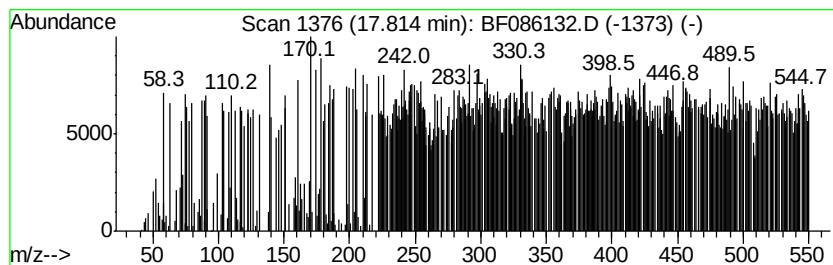
Instrument :  
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ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 13 unknown17.81 Concentration Rank 13

| R.T.    | EstConc  | Area                                                                                                          | Relative to ISTD | R.T.         |              |      |
|---------|----------|---------------------------------------------------------------------------------------------------------------|------------------|--------------|--------------|------|
| 17.81   | 23.14 ng | 999597                                                                                                        | Perylene-d12     | 15.29        |              |      |
| Hit# of | 5        | Tentative ID                                                                                                  | MW               | MolForm      | CAS#         | Qual |
| 1       |          | 1-(3',5'-Dibromo-4'-hydroxyphenyl)-5,5-dibromo-2,2,3-trimethyl-3,4-dihydro-1H-benzofuran                      | 518              | C10H6Br4N2O3 | 083809-80-7  | 44   |
| 2       |          | Tris(benzo[b]selenopheno)[2,3:2',3']benzene                                                                   | 540              | C24H12Se3    | 107210-82-2  | 15   |
| 3       |          | N,5-Bis[3,4-dichlorophenyl]-3,5-dihydro-3-[[1-methyl-2-oxo-2H-pyridine-5-ylidene]amino]-2H-pyridine-2,6-dione | 540              | C27H20Cl4N4  | 333399-40-9  | 11   |
| 4       |          | Cholest-2-en-3-ol-2,3-bisquinoxaline, 1,4-bis(2,3-dichlorophenyl)-                                            | 540              | C33H46Cl2N2  | 1000210-84-2 | 7    |
| 5       |          | Iron, (pentamethylcyclopentadienyl)tricarbonyl                                                                | 547              | C38H35Fe     | 1000161-61-6 | 7    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

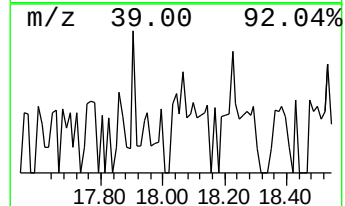
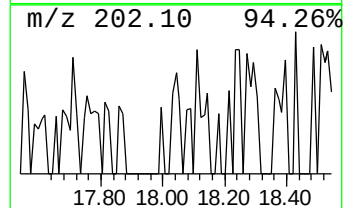
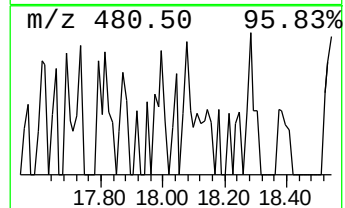
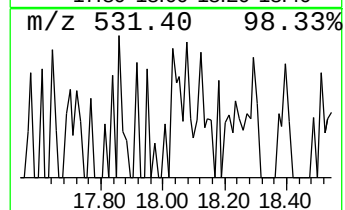
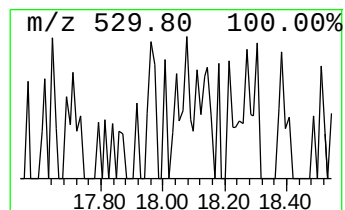
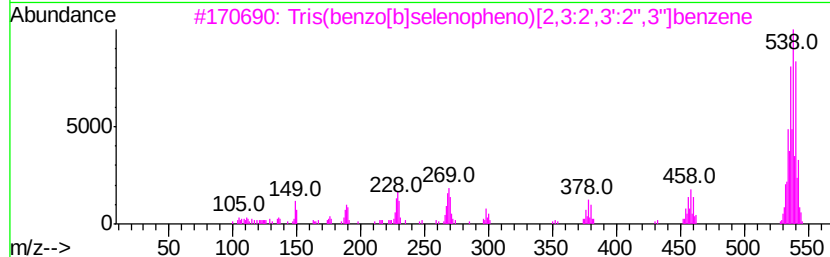
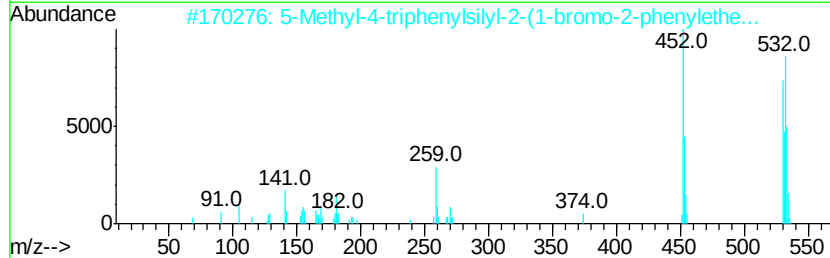
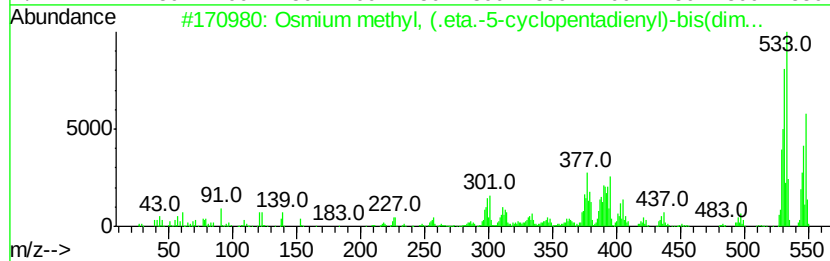
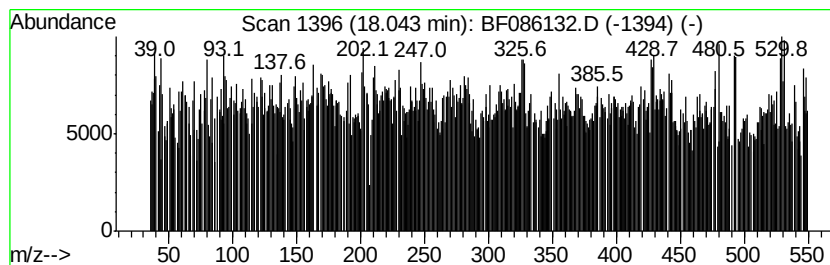
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ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 14 unknown18.04 Concentration Rank 14

| R.T.    | EstConc                                | Area         | Relative to ISTD | R.T.         |      |      |
|---------|----------------------------------------|--------------|------------------|--------------|------|------|
| 18.04   | 23.10 ng                               | 998157       | Perylene-d12     | 15.29        |      |      |
| Hit# of | 5                                      | Tentative ID | MW               | MolForm      | CAS# | Qual |
| 1       | Osmium methyl, (.eta.-5-cyclopenten... | 548          | C22H30O5P2       | 1000158-92-4 | 30   |      |
| 2       | 5-Methyl-4-triphenylsilyl-2-(1-b...    | 531          | C32H26BrNSi      | 037965-29-0  | 14   |      |
| 3       | Tris(benzo[blselenopheno)[2,3:2'       | 540          | C24H12Se3        | 107210-82-2  | 10   |      |
| 4       | Pregna-2,4-dien-20-one, 17-(acet...    | 546          | C30H50O5Si2      | 069833-57-4  | 10   |      |
| 5       | Benzenepropanoic acid, 3,5-bis(1...    | 530          | C35H62O3         | 002082-79-3  | 10   |      |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

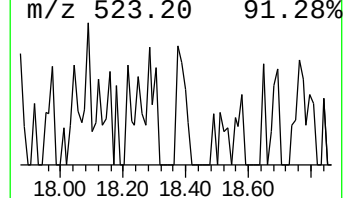
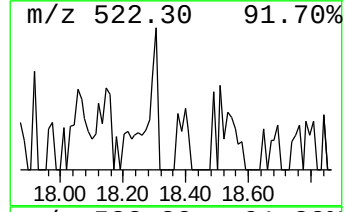
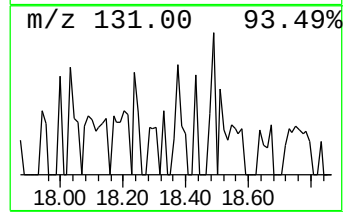
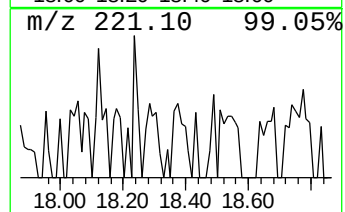
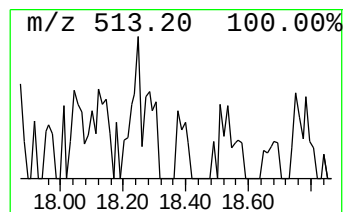
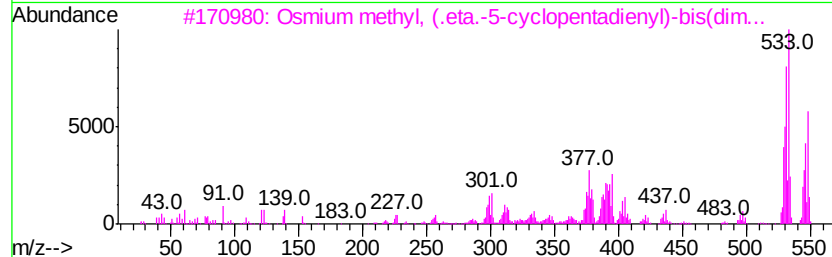
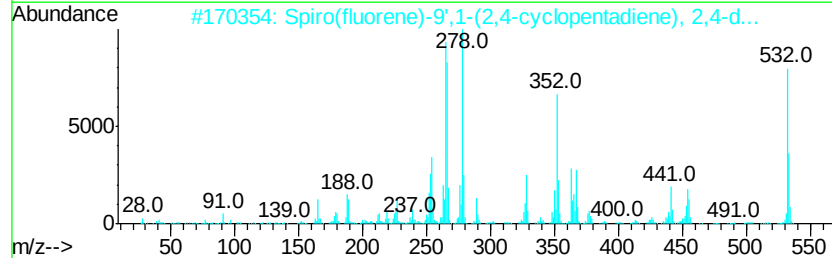
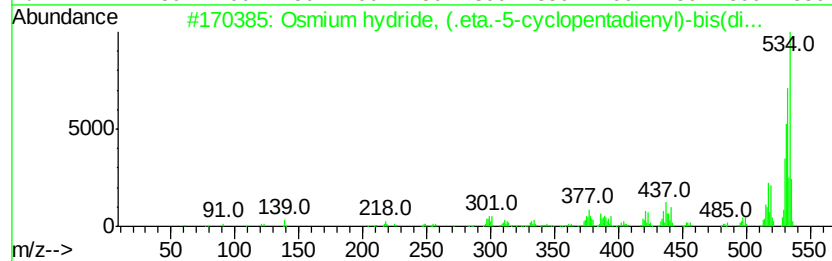
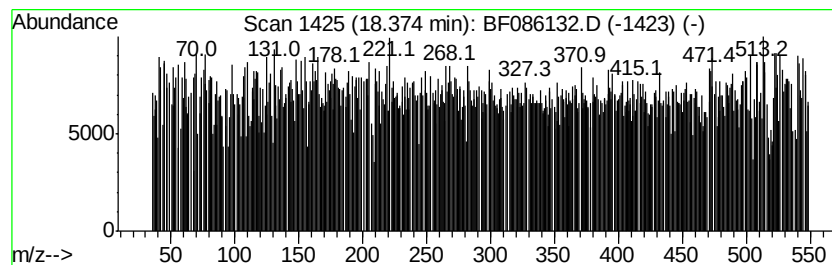
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 16 unknown18.37 Concentration Rank 15

| R.T.  | EstConc  | Area   | Relative to ISTD | R.T.  |
|-------|----------|--------|------------------|-------|
| 18.37 | 23.00 ng | 993745 | Perylene-d12     | 15.29 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Osmium hydride, (.eta.-5-cyclope... | 534 | C21H280sP2  | 1000158-66-2 | 32   |
| 2    |    | Spiro(fluorene)-9',1-(2,4-cyclop... | 532 | C42H28      | 1000217-20-9 | 25   |
| 3    |    | Osmium methyl, (.eta.-5-cyclopen... | 548 | C22H300sP2  | 1000158-92-4 | 20   |
| 4    |    | 6"-Dehydroxy-2",3',3",4',4",5,7-... | 546 | C28H34011   | 1000064-97-6 | 15   |
| 5    |    | 2H-1,4-Benzodiazepin-2-one, 7-br... | 530 | C29H31BrN4O | 1000142-56-8 | 15   |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

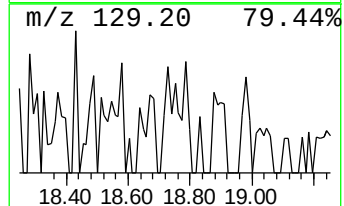
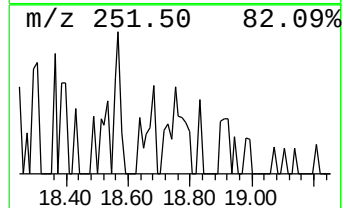
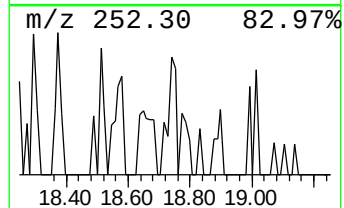
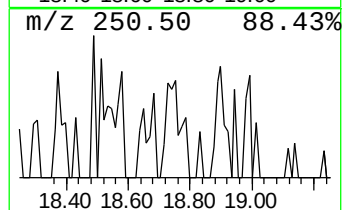
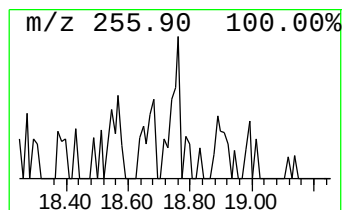
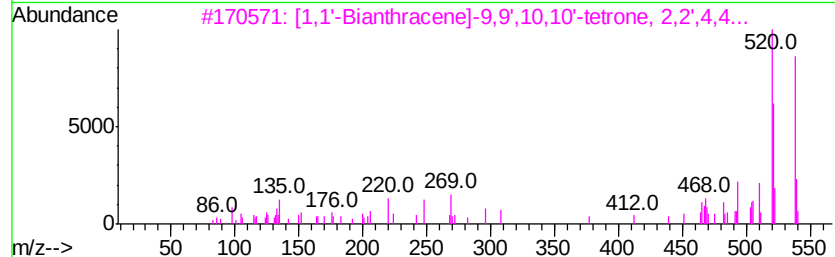
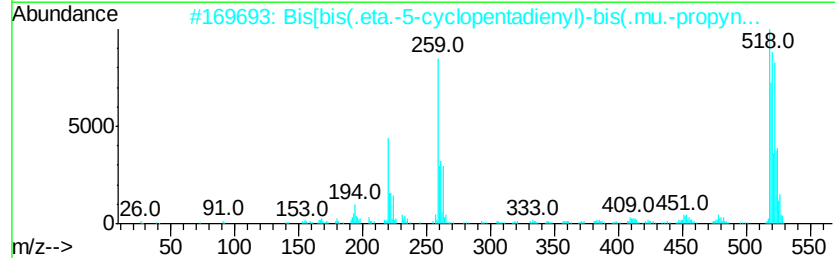
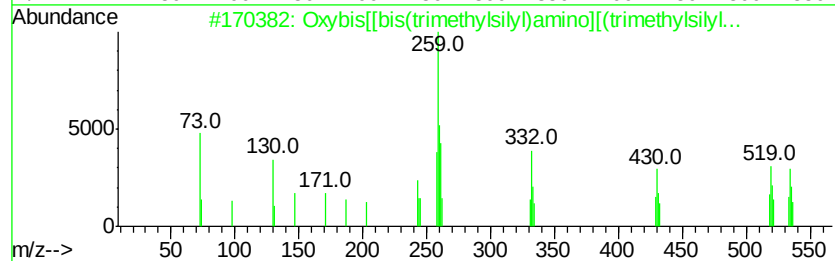
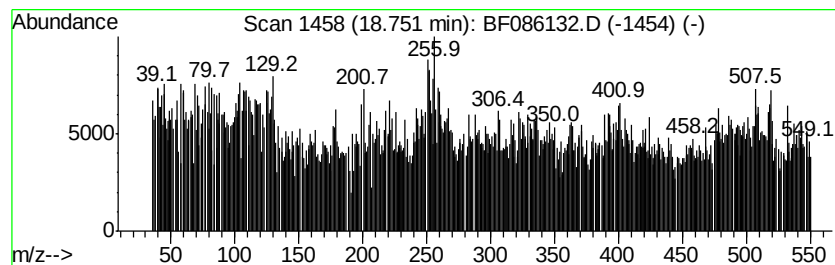
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 18 Oxybis[[bis(trimethylsilyl)... Concentration Rank 5

| R.T.  | EstConc  | Area    | Relative to ISTD | R.T.  |
|-------|----------|---------|------------------|-------|
| 18.75 | 28.68 ng | 1239270 | Perylene-d12     | 15.29 |

| Hit# | of | Tentative ID                          | MW  | MolForm        | CAS#         | Qual |
|------|----|---------------------------------------|-----|----------------|--------------|------|
| 1    | 5  | Oxybis[[bis(trimethylsilyl)amino...   | 534 | C18H56B2N4OSi6 | 113678-61-8  | 55   |
| 2    |    | Bis[bis(.eta.-5-cyclopentadienyl)...] | 518 | C26H26Zr2      | 1000159-84-6 | 11   |
| 3    |    | [1,1'-Bianthracene]-9,9',10,10'-...   | 538 | C30H18O10      | 000602-06-2  | 9    |
| 4    |    | 5-Germaspiro[4.4]nona-1,3,6,8-te...   | 538 | C36H32Ge       | 150479-95-1  | 9    |
| 5    |    | 21H,23H-Porphine, 2,3,7,8,12,13,...   | 536 | C36H48N4       | 000991-74-2  | 9    |



Data Path : Z:\HPCHEM1\BNA F\DATA\BF040716\  
Data File : BF086132.D  
Acq On : 7 Apr 2016 15:17  
Operator : UM/SJ  
Sample : H2230-03  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

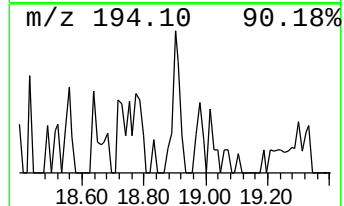
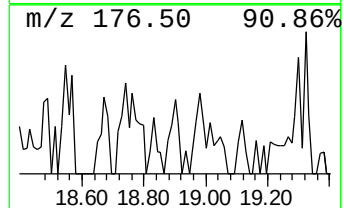
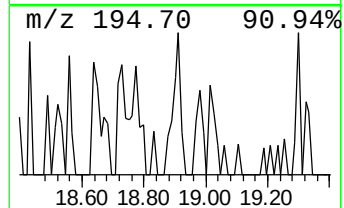
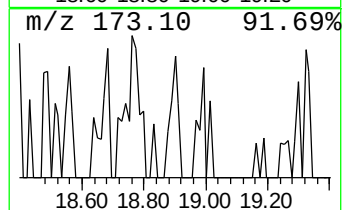
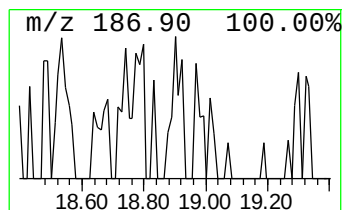
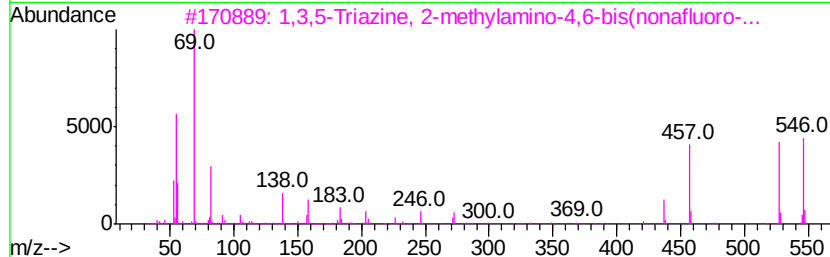
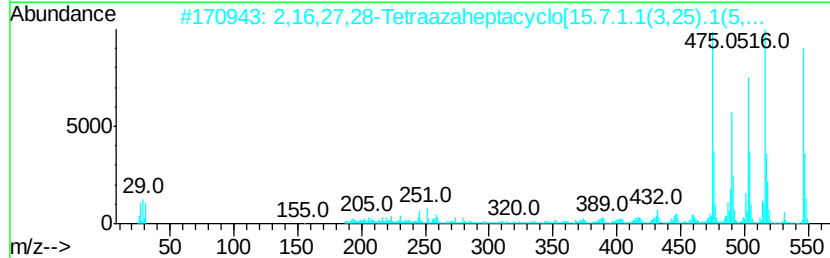
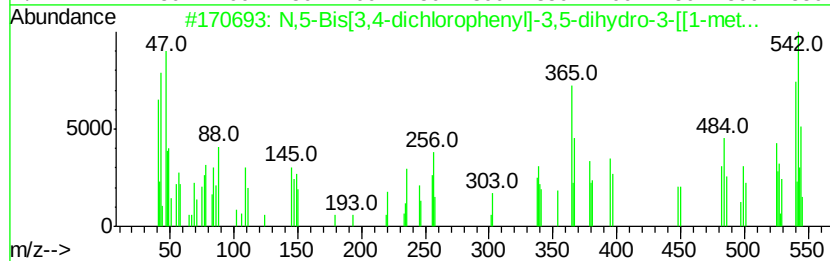
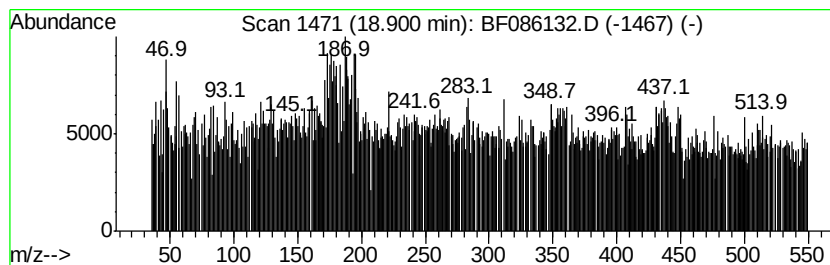
Instrument :  
BNA\_F  
ClientSampleId :  
MW-4-040116

Quant Method : Z:\HPCHEM1\BNA F\METHODS\8270-BF040216.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 19 N,5-Bis[3,4-dichlorophenyl]... Concentration Rank 12

| R.T.    | EstConc  | Area                                | Relative to ISTD | R.T.        |              |      |
|---------|----------|-------------------------------------|------------------|-------------|--------------|------|
| 18.90   | 23.30 ng | 1006760                             | Perylene-d12     | 15.29       |              |      |
| Hit# of | 5        | Tentative ID                        | MW               | MolForm     | CAS#         | Qual |
| 1       |          | N,5-Bis[3,4-dichlorophenyl]-3,5-... | 540              | C27H20Cl4N4 | 333399-40-9  | 90   |
| 2       |          | 2,16,27,28-Tetraazaheptacyclo[15... | 546              | C34H34N4O3  | 1000186-99-5 | 25   |
| 3       |          | 1,3,5-Triazine, 2-methylamino-4,... | 546              | C12H4F18N4  | 254118-16-6  | 15   |
| 4       |          | Ferrocene, 1,1'-bis[(pentafluoro... | 546              | C24H12F10Fe | 055494-16-1  | 11   |
| 5       |          | 2-Nitroso-4,6-bis[2,2,2-trifluor... | 546              | C11F18N4O   | 1000225-77-2 | 10   |





Data Path : Z:\HPCHEM1\BNA\_F\DATA\BF040716\  
 Data File : BF086132.D  
 Acq On : 7 Apr 2016 15:17  
 Operator : UM/SJ  
 Sample : H2230-03  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_F  
 ClientSampleId :  
 MW-4-040116

Quant Method : Z:\HPCHEM1\BNA\_F\METHODS\8270-BF040216.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown6.50          | 6.50  | 69.8    | ng    | 2258790  | 1                     | 6.74  | 647219  | 20.0 |
| unknown11.05         | 11.05 | 24.1    | ng    | 1326950  | 4                     | 11.25 | 1100580 | 20.0 |
| unknown11.80         | 11.80 | 20.7    | ng    | 1139600  | 4                     | 11.25 | 1100580 | 20.0 |
| Osmium methyl, (.... | 13.32 | 23.4    | ng    | 1604340  | 5                     | 13.89 | 1373790 | 20.0 |
| unknown16.36         | 16.36 | 21.7    | ng    | 937103   | 6                     | 15.29 | 864095  | 20.0 |
| unknown17.30         | 17.30 | 26.7    | ng    | 1154090  | 6                     | 15.29 | 864095  | 20.0 |
| unknown17.81         | 17.81 | 23.1    | ng    | 999597   | 6                     | 15.29 | 864095  | 20.0 |
| unknown18.04         | 18.04 | 23.1    | ng    | 998157   | 6                     | 15.29 | 864095  | 20.0 |
| unknown18.37         | 18.37 | 23.0    | ng    | 993745   | 6                     | 15.29 | 864095  | 20.0 |
| Oxybis[[bis(trime... | 18.75 | 28.7    | ng    | 1239270  | 6                     | 15.29 | 864095  | 20.0 |
| N,5-Bis[3,4-dichl... | 18.90 | 23.3    | ng    | 1006760  | 6                     | 15.29 | 864095  | 20.0 |