

Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012617\  
 Data File : BG025664.D  
 Acq On : 26 Jan 2017 13:11  
 Operator : SJ/MA  
 Sample : I1387-08DL 20X  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA9R4DL

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0.1 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 1

Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 2.991    | 24         | 26       | 30        | rVB4  | 9300        | 13516      | 0.58%        | 0.102%     |
| 2      | 3.079    | 39         | 41       | 45        | rVB4  | 12954       | 14941      | 0.65%        | 0.113%     |
| 3      | 3.461    | 102        | 106      | 108       | rBV5  | 7293        | 8756       | 0.38%        | 0.066%     |
| 4      | 3.837    | 168        | 170      | 175       | rVB4  | 8294        | 12562      | 0.54%        | 0.095%     |
| 5      | 3.878    | 175        | 177      | 180       | rBV4  | 8166        | 10744      | 0.46%        | 0.081%     |
| 6      | 3.937    | 184        | 187      | 190       | rBV2  | 6148        | 9414       | 0.41%        | 0.071%     |
| 7      | 4.283    | 243        | 246      | 251       | rVB6  | 5862        | 8608       | 0.37%        | 0.065%     |
| 8      | 4.965    | 358        | 362      | 365       | rBV5  | 4211        | 7331       | 0.32%        | 0.055%     |
| 9      | 6.340    | 592        | 596      | 598       | rBV3  | 5196        | 7382       | 0.32%        | 0.056%     |
| 10     | 6.745    | 660        | 665      | 667       | rVB3  | 5029        | 7827       | 0.34%        | 0.059%     |
| 11     | 6.851    | 678        | 683      | 687       | rVB6  | 5017        | 7691       | 0.33%        | 0.058%     |
| 12     | 6.904    | 687        | 692      | 694       | rBV3  | 3909        | 7663       | 0.33%        | 0.058%     |
| 13     | 7.509    | 789        | 795      | 800       | rBV5  | 10137       | 25252      | 1.09%        | 0.191%     |
| 14     | 7.726    | 827        | 832      | 836       | rBV6  | 10764       | 17748      | 0.77%        | 0.134%     |
| 15     | 8.032    | 879        | 884      | 888       | rBV4  | 8190        | 10590      | 0.46%        | 0.080%     |
| 16     | 8.179    | 902        | 909      | 921       | rBV   | 255317      | 490901     | 21.21%       | 3.709%     |
| 17     | 8.355    | 938        | 939      | 946       | rBV2  | 3900        | 7403       | 0.32%        | 0.056%     |
| 18     | 8.514    | 964        | 966      | 970       | rVB3  | 6421        | 7464       | 0.32%        | 0.056%     |
| 19     | 8.555    | 970        | 973      | 977       | rBV5  | 5209        | 9226       | 0.40%        | 0.070%     |
| 20     | 8.608    | 977        | 982      | 987       | rBV7  | 9525        | 15605      | 0.67%        | 0.118%     |
| 21     | 8.995    | 1046       | 1048     | 1051      | rVB3  | 9903        | 8869       | 0.38%        | 0.067%     |
| 22     | 9.395    | 1107       | 1116     | 1124      | rBV6  | 13111       | 36801      | 1.59%        | 0.278%     |
| 23     | 9.477    | 1124       | 1130     | 1132      | rVV6  | 4884        | 8803       | 0.38%        | 0.067%     |
| 24     | 9.918    | 1201       | 1205     | 1207      | rBV3  | 7410        | 10802      | 0.47%        | 0.082%     |
| 25     | 9.941    | 1207       | 1209     | 1215      | rVV6  | 11650       | 15924      | 0.69%        | 0.120%     |
| 26     | 10.024   | 1219       | 1223     | 1226      | rBV4  | 5178        | 8003       | 0.35%        | 0.060%     |
| 27     | 10.112   | 1231       | 1238     | 1245      | rBV7  | 19181       | 50842      | 2.20%        | 0.384%     |
| 28     | 10.347   | 1271       | 1278     | 1283      | rVV6  | 3015        | 8108       | 0.35%        | 0.061%     |
| 29     | 10.417   | 1288       | 1290     | 1294      | rVB2  | 8279        | 8741       | 0.38%        | 0.066%     |
| 30     | 10.635   | 1324       | 1327     | 1331      | rVB4  | 7518        | 11529      | 0.50%        | 0.087%     |
| 31     | 10.711   | 1331       | 1340     | 1342      | rBV8  | 14159       | 37118      | 1.60%        | 0.280%     |
| 32     | 10.734   | 1342       | 1344     | 1348      | rVV4  | 11393       | 14688      | 0.63%        | 0.111%     |
| 33     | 11.005   | 1379       | 1390     | 1399      | rBV2  | 380560      | 745408     | 32.21%       | 5.632%     |
| 34     | 11.158   | 1413       | 1416     | 1422      | rVB5  | 8499        | 12299      | 0.53%        | 0.093%     |

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 Title : SVOA CALIBRATION

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 11.263 | 1429 | 1434 | 1441 | rBV6 | 46512  | 94504   | 4.08%  | 0.714% |
| 36 | 11.328 | 1441 | 1445 | 1454 | rVB3 | 36537  | 72639   | 3.14%  | 0.549% |
| 37 | 11.481 | 1464 | 1471 | 1474 | rBV5 | 6920   | 14329   | 0.62%  | 0.108% |
| 38 | 11.727 | 1506 | 1513 | 1516 | rBV5 | 5548   | 10940   | 0.47%  | 0.083% |
| 39 | 11.927 | 1539 | 1547 | 1552 | rBV8 | 7103   | 17796   | 0.77%  | 0.134% |
| 40 | 12.174 | 1583 | 1589 | 1591 | rVB6 | 5097   | 7419    | 0.32%  | 0.056% |
| 41 | 12.403 | 1622 | 1628 | 1633 | rVV7 | 6708   | 13750   | 0.59%  | 0.104% |
| 42 | 12.456 | 1633 | 1637 | 1642 | rVB7 | 6616   | 11439   | 0.49%  | 0.086% |
| 43 | 12.544 | 1649 | 1652 | 1655 | rVB5 | 5687   | 7596    | 0.33%  | 0.057% |
| 44 | 12.609 | 1661 | 1663 | 1667 | rVB4 | 5651   | 7765    | 0.34%  | 0.059% |
| 45 | 12.638 | 1667 | 1668 | 1676 | rBV7 | 3947   | 7996    | 0.35%  | 0.060% |
| 46 | 12.750 | 1676 | 1687 | 1693 | rBV4 | 14408  | 35897   | 1.55%  | 0.271% |
| 47 | 12.826 | 1698 | 1700 | 1704 | rVB3 | 7153   | 8723    | 0.38%  | 0.066% |
| 48 | 12.867 | 1704 | 1707 | 1712 | rBV2 | 6171   | 9931    | 0.43%  | 0.075% |
| 49 | 13.190 | 1757 | 1762 | 1766 | rVB5 | 11113  | 18794   | 0.81%  | 0.142% |
| 50 | 13.314 | 1778 | 1783 | 1786 | rVB5 | 5458   | 9110    | 0.39%  | 0.069% |
| 51 | 13.396 | 1787 | 1797 | 1801 | rVV9 | 24754  | 47249   | 2.04%  | 0.357% |
| 52 | 13.631 | 1831 | 1837 | 1844 | rBV9 | 8493   | 22405   | 0.97%  | 0.169% |
| 53 | 13.702 | 1848 | 1849 | 1856 | rVB5 | 6318   | 11652   | 0.50%  | 0.088% |
| 54 | 13.807 | 1861 | 1867 | 1868 | rBV4 | 8975   | 11314   | 0.49%  | 0.085% |
| 55 | 13.837 | 1869 | 1872 | 1877 | rVV6 | 10636  | 15938   | 0.69%  | 0.120% |
| 56 | 13.995 | 1896 | 1899 | 1906 | rVB8 | 9089   | 15576   | 0.67%  | 0.118% |
| 57 | 14.142 | 1921 | 1924 | 1929 | rBV5 | 11964  | 21561   | 0.93%  | 0.163% |
| 58 | 14.207 | 1930 | 1935 | 1947 | rVB  | 58629  | 95648   | 4.13%  | 0.723% |
| 59 | 14.383 | 1960 | 1965 | 1972 | rVB7 | 8243   | 17201   | 0.74%  | 0.130% |
| 60 | 14.448 | 1972 | 1976 | 1980 | rBV7 | 8874   | 17141   | 0.74%  | 0.130% |
| 61 | 14.512 | 1980 | 1987 | 1994 | rVV2 | 60455  | 110619  | 4.78%  | 0.836% |
| 62 | 14.601 | 1999 | 2002 | 2005 | rVB3 | 8446   | 8339    | 0.36%  | 0.063% |
| 63 | 14.677 | 2005 | 2015 | 2018 | rBV6 | 19273  | 49304   | 2.13%  | 0.373% |
| 64 | 14.730 | 2021 | 2024 | 2028 | rVB5 | 11392  | 17551   | 0.76%  | 0.133% |
| 65 | 14.812 | 2028 | 2038 | 2050 | rBV  | 702082 | 1221852 | 52.79% | 9.232% |
| 66 | 14.906 | 2050 | 2054 | 2059 | rVV6 | 14500  | 25754   | 1.11%  | 0.195% |
| 67 | 14.965 | 2059 | 2064 | 2076 | rVV5 | 48717  | 108828  | 4.70%  | 0.822% |
| 68 | 15.088 | 2080 | 2085 | 2090 | rVV4 | 30362  | 53916   | 2.33%  | 0.407% |
| 69 | 15.153 | 2090 | 2096 | 2105 | rVB3 | 76608  | 140978  | 6.09%  | 1.065% |
| 70 | 15.253 | 2107 | 2113 | 2116 | rBV7 | 14796  | 25749   | 1.11%  | 0.195% |
| 71 | 15.329 | 2121 | 2126 | 2132 | rVB4 | 45461  | 59366   | 2.57%  | 0.449% |

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Peak Location: TOP

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
Title : SVOA CALIBRATION

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|-----|--------|------|------|------|-------|---------|---------|---------|---------|
| 72  | 15.400 | 2132 | 2138 | 2142 | rBV2  | 83612   | 128615  | 5.56%   | 0.972%  |
| 73  | 15.453 | 2144 | 2147 | 2155 | rVB9  | 43645   | 75220   | 3.25%   | 0.568%  |
| 74  | 15.658 | 2176 | 2182 | 2186 | rBV7  | 12303   | 26034   | 1.12%   | 0.197%  |
| 75  | 15.799 | 2200 | 2206 | 2212 | rVV   | 81701   | 138359  | 5.98%   | 1.045%  |
| 76  | 15.970 | 2230 | 2235 | 2248 | rBV3  | 96434   | 235267  | 10.17%  | 1.778%  |
| 77  | 16.175 | 2265 | 2270 | 2273 | rVB8  | 8203    | 15119   | 0.65%   | 0.114%  |
| 78  | 16.234 | 2277 | 2280 | 2282 | rBV4  | 12201   | 10986   | 0.47%   | 0.083%  |
| 79  | 16.316 | 2293 | 2294 | 2302 | rVB7  | 6583    | 13355   | 0.58%   | 0.101%  |
| 80  | 16.410 | 2302 | 2310 | 2315 | rVB10 | 10096   | 28964   | 1.25%   | 0.219%  |
| 81  | 16.487 | 2315 | 2323 | 2328 | rBV10 | 16525   | 38209   | 1.65%   | 0.289%  |
| 82  | 16.545 | 2328 | 2333 | 2335 | rBV6  | 12328   | 18915   | 0.82%   | 0.143%  |
| 83  | 16.827 | 2377 | 2381 | 2383 | rBV4  | 13706   | 17566   | 0.76%   | 0.133%  |
| 84  | 17.209 | 2439 | 2446 | 2464 | rBV   | 1297769 | 2314387 | 100.00% | 17.487% |
| 85  | 17.556 | 2499 | 2505 | 2514 | rBV2  | 921774  | 1427279 | 61.67%  | 10.784% |
| 86  | 17.656 | 2516 | 2522 | 2532 | rVB   | 98616   | 164469  | 7.11%   | 1.243%  |
| 87  | 17.773 | 2540 | 2542 | 2548 | rVB7  | 8124    | 12437   | 0.54%   | 0.094%  |
| 88  | 18.044 | 2586 | 2588 | 2592 | rVB5  | 9190    | 11153   | 0.48%   | 0.084%  |
| 89  | 18.091 | 2593 | 2596 | 2598 | rVB3  | 10842   | 11957   | 0.52%   | 0.090%  |
| 90  | 18.367 | 2640 | 2643 | 2645 | rBV4  | 6885    | 8596    | 0.37%   | 0.065%  |
| 91  | 18.414 | 2649 | 2651 | 2654 | rBV4  | 11202   | 14157   | 0.61%   | 0.107%  |
| 92  | 18.519 | 2667 | 2669 | 2671 | rBV3  | 10478   | 7770    | 0.34%   | 0.059%  |
| 93  | 19.501 | 2831 | 2836 | 2845 | rBV3  | 11327   | 27887   | 1.20%   | 0.211%  |
| 94  | 19.935 | 2906 | 2910 | 2918 | rVB2  | 127096  | 185695  | 8.02%   | 1.403%  |
| 95  | 21.851 | 3229 | 3236 | 3248 | rVB   | 1039175 | 1756867 | 75.91%  | 13.275% |
| 96  | 25.012 | 3769 | 3774 | 3782 | rVB2  | 59560   | 133339  | 5.76%   | 1.007%  |
| 97  | 25.118 | 3787 | 3792 | 3800 | rVB8  | 55524   | 140219  | 6.06%   | 1.059%  |
| 98  | 25.241 | 3803 | 3813 | 3831 | rVB3  | 553565  | 1802407 | 77.88%  | 13.619% |
| 99  | 26.281 | 3985 | 3990 | 4001 | rVB9  | 59108   | 165437  | 7.15%   | 1.250%  |
| 100 | 27.679 | 4221 | 4228 | 4238 | rVB7  | 51136   | 178919  | 7.73%   | 1.352%  |

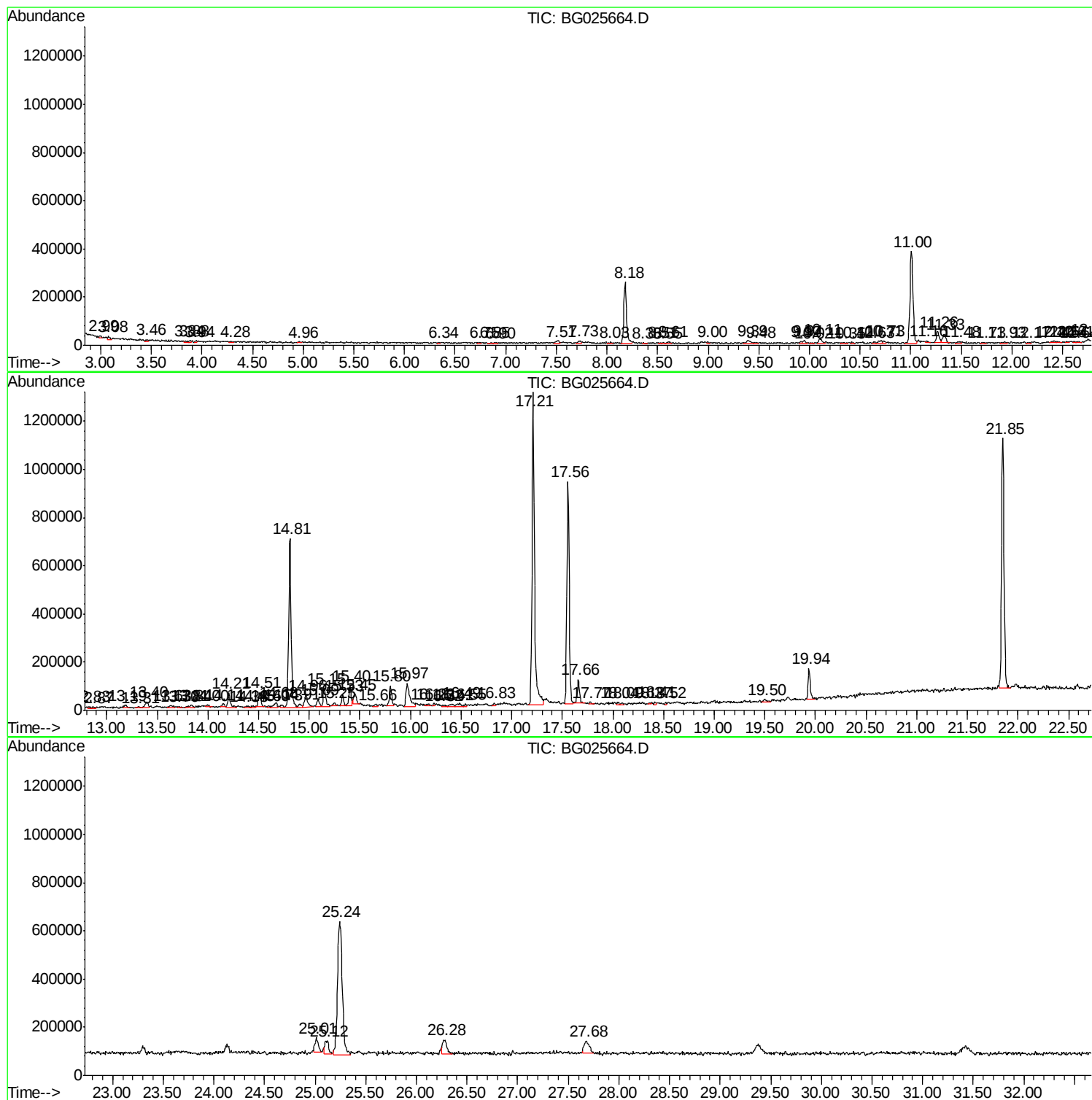
Sum of corrected areas: 13234712

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Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
Quant Title : SVOA CALIBRATION

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



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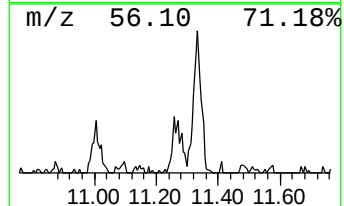
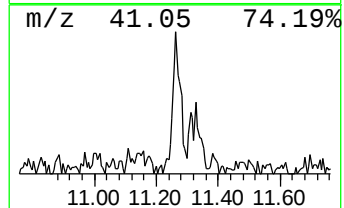
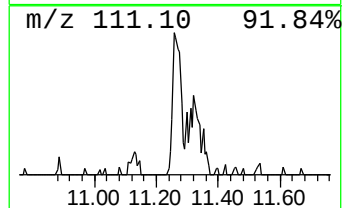
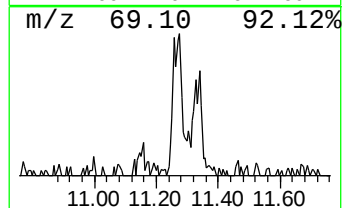
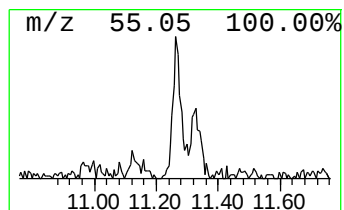
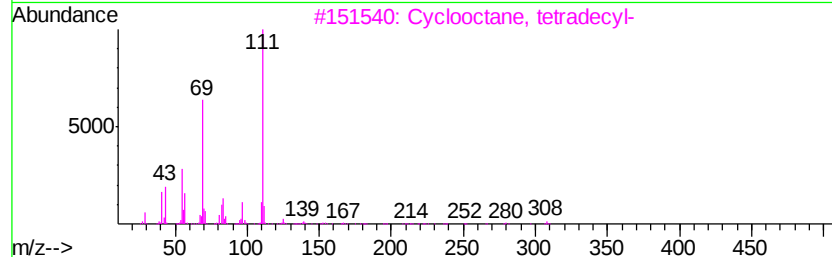
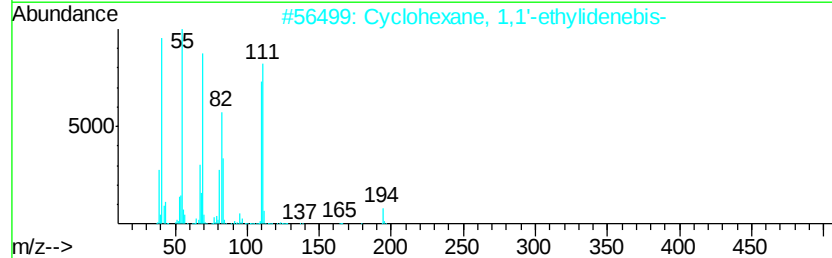
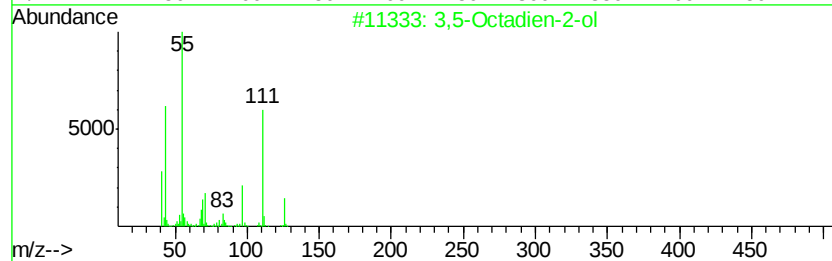
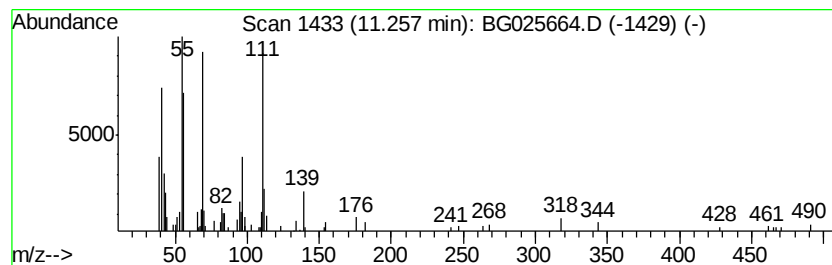
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 2

| R.T.  | EstConc    | Area  | Relative to ISTD | R.T.  |
|-------|------------|-------|------------------|-------|
| 11.26 | 2.54 ng/ul | 94504 | Napthalene-d8    | 11.00 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 3,5-Octadien-2-ol                   | 126 | C8H14O     | 069668-82-2  | 43   |
| 2    |    | Cyclohexane, 1,1'-ethylidenebis-    | 194 | C14H26     | 002319-61-1  | 38   |
| 3    |    | Cyclooctane, tetradecyl-            | 308 | C22H44     | 149003-36-1  | 35   |
| 4    |    | Cyclopentanecarboxamide, N-(2-fl... | 207 | C12H14FN O | 1000308-60-7 | 35   |
| 5    |    | Cyclohexanebutanoic acid, 2-meth... | 212 | C12H20O3   | 083406-43-3  | 35   |



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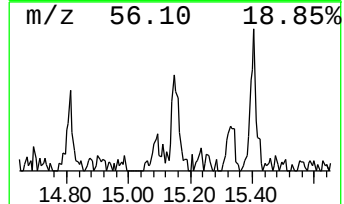
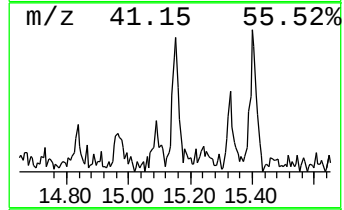
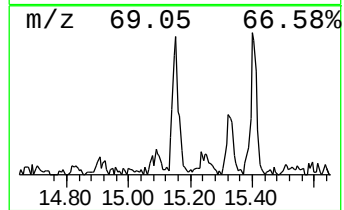
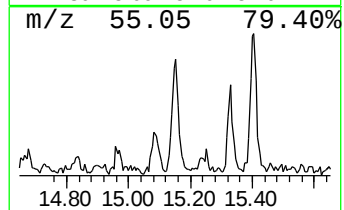
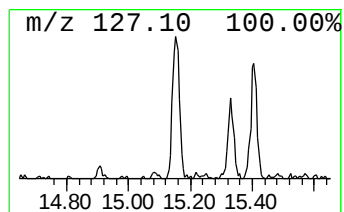
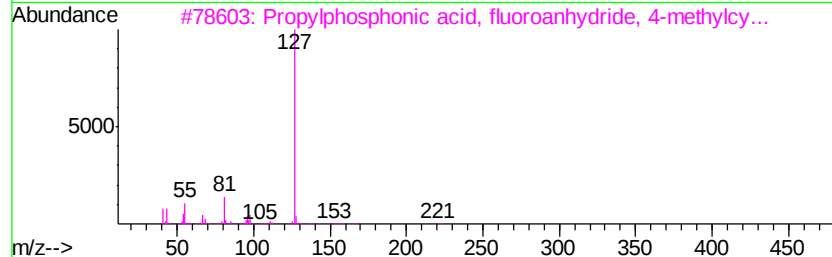
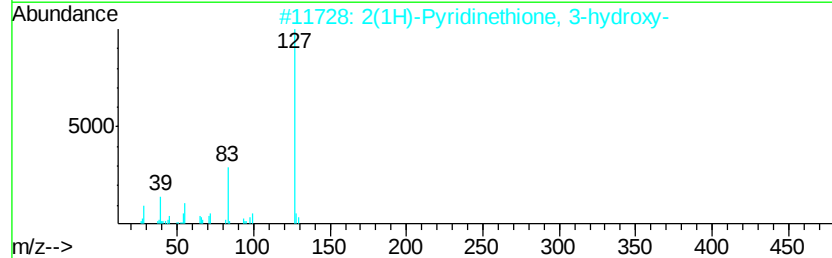
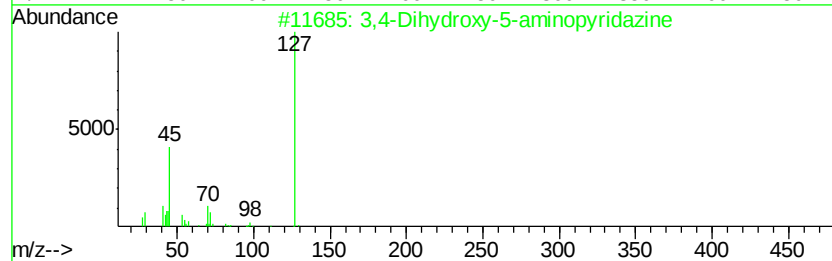
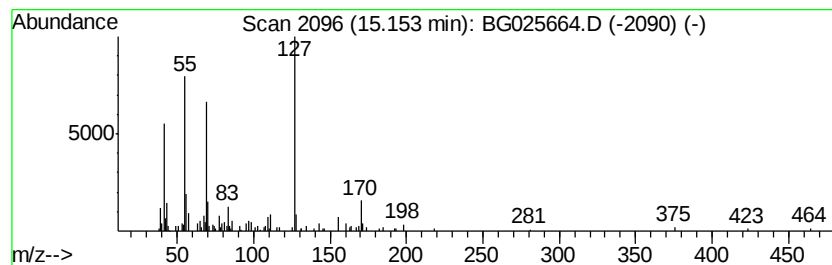
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\*\*\*\*\*  
Peak Number 2 unknown-02 Concentration Rank 3

| R.T.    | EstConc                             | Area         | Relative to ISTD | R.T.            |
|---------|-------------------------------------|--------------|------------------|-----------------|
| 15.15   | 2.31 ng/ul                          | 140978       | Acenaphthene-d10 | 14.81           |
| Hit# of | 5                                   | Tentative ID | MW MolForm       | CAS# Qual       |
| 1       | 3,4-Dihydroxy-5-aminopyridazine     | 127          | C4H5N3O2         | 004655-95-2 49  |
| 2       | 2(1H)-Pyridinethione, 3-hydroxy-    | 127          | C5H5NOS          | 023003-22-7 47  |
| 3       | Propylphosphonic acid, fluoroanh... | 222          | C10H20F02P       | 1000273-53-3 47 |
| 4       | Propylphosphonic acid, fluoroanh... | 210          | C9H20F02P        | 333416-18-5 47  |
| 5       | 1H-Imidazole, 1-methyl-4-nitro-     | 127          | C4H5N3O2         | 003034-41-1 47  |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012617\  
Data File : BG025664.D  
Acq On : 26 Jan 2017 13:11  
Operator : SJ/MA  
Sample : I1387-08DL 20X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA9R4DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
Quant Title : SVOA CALIBRATION

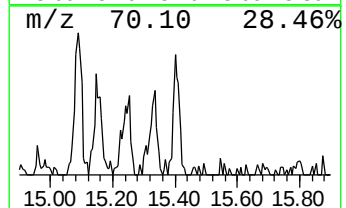
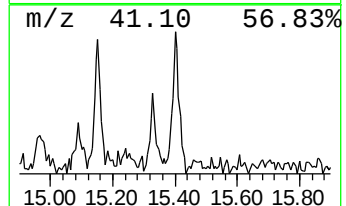
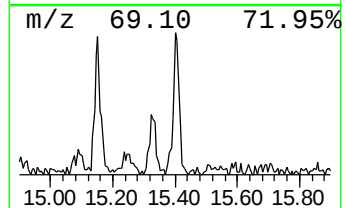
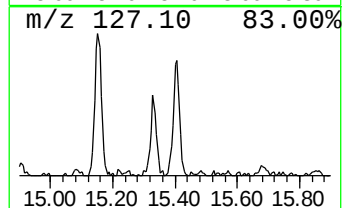
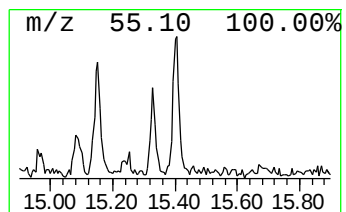
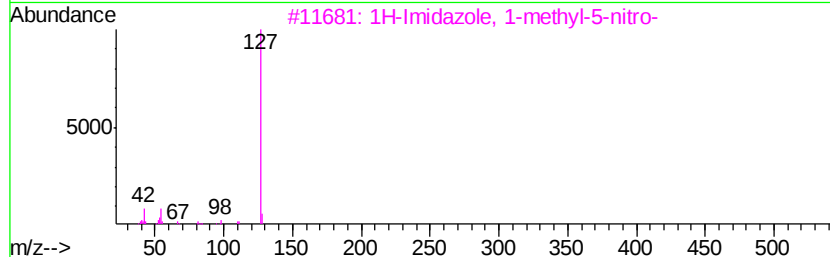
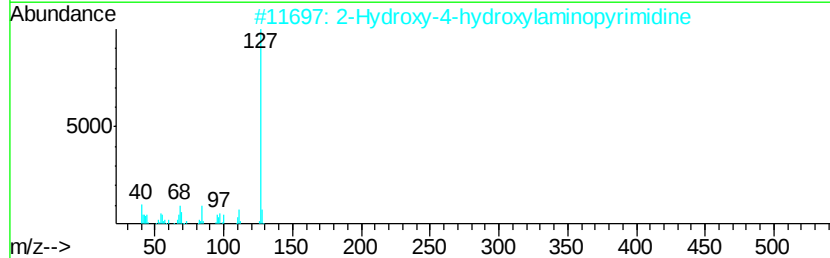
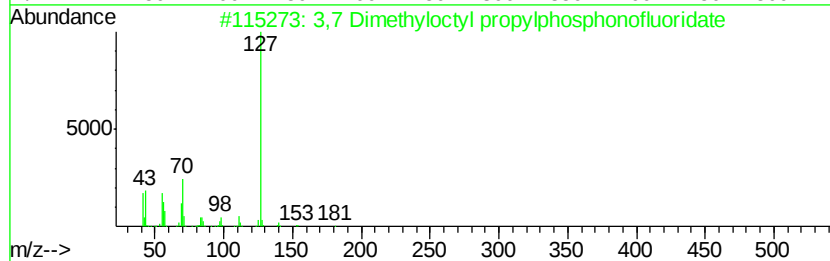
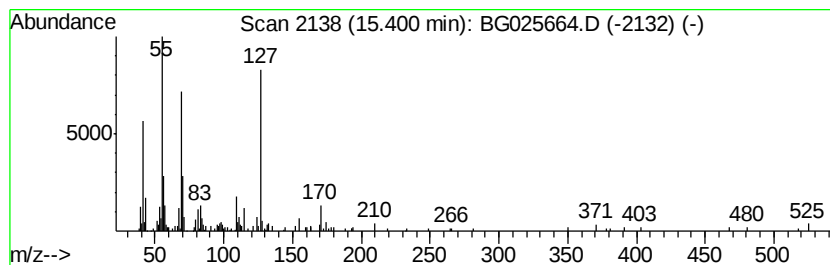
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 3,7 Dimethyloctyl propylpho... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.40 | 2.11 ng/ul | 128615 | Acenaphthene-d10 | 14.81 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 3,7 Dimethyloctyl propylphosphon... | 266 | C13H28F02P | 1000298-29-8 | 58   |
| 2    |    | 2-Hydroxy-4-hydroxylaminopyrimidine | 127 | C4H5N3O2   | 020555-88-8  | 58   |
| 3    |    | 1H-Imidazole, 1-methyl-5-nitro-     | 127 | C4H5N3O2   | 003034-42-2  | 58   |
| 4    |    | 1H-1,2,3-Triazole-5-carboxamide,... | 127 | C3H5N5O    | 1000338-05-7 | 53   |
| 5    |    | 3Beta-acetoxy-4,4,8,10,14-pentam... | 502 | C32H54O4   | 1000244-06-1 | 53   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG012617\  
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Acq On : 26 Jan 2017 13:11  
Operator : SJ/MA  
Sample : I1387-08DL 20X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA9R4DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
Quant Title : SVOA CALIBRATION

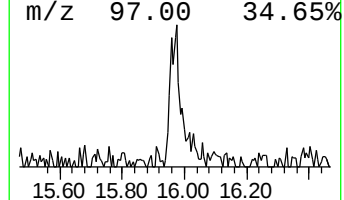
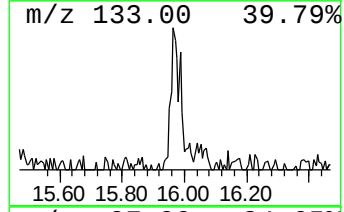
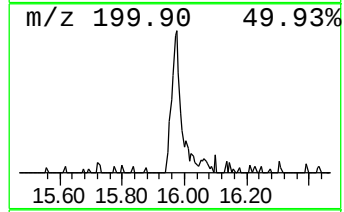
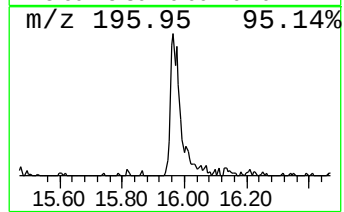
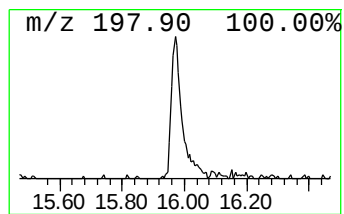
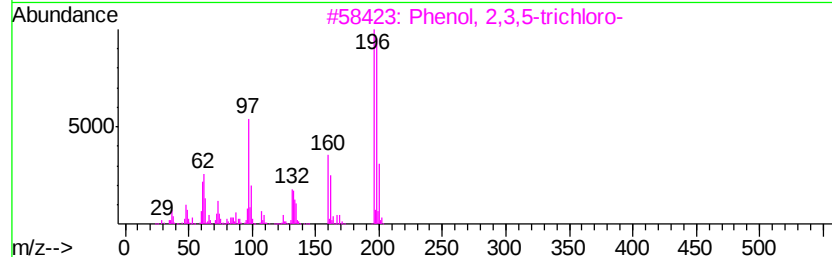
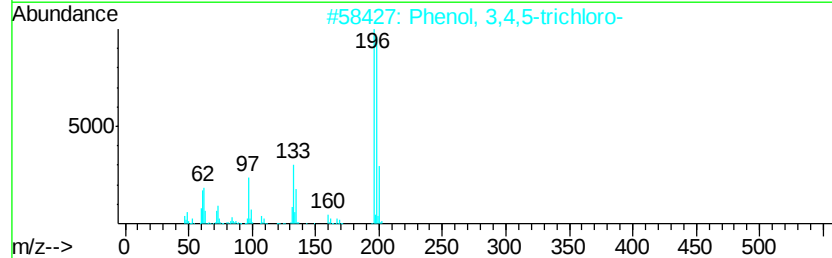
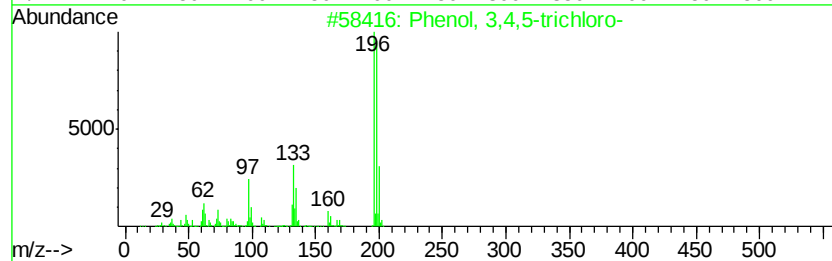
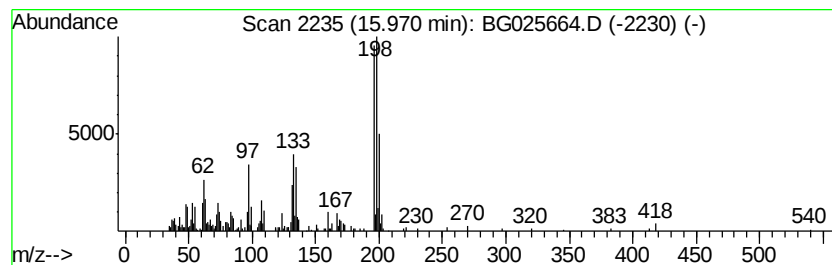
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Phenol, 3,4,5-trichloro- Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.97 | 3.85 ng/ul | 235267 | Acenaphthene-d10 | 14.81 |

| Hit# of | 5                        | Tentative ID | MW  | MolForm  | CAS#        | Qual |
|---------|--------------------------|--------------|-----|----------|-------------|------|
| 1       | Phenol, 3,4,5-trichloro- |              | 196 | C6H3Cl3O | 000609-19-8 | 93   |
| 2       | Phenol, 3,4,5-trichloro- |              | 196 | C6H3Cl3O | 000609-19-8 | 87   |
| 3       | Phenol, 2,3,5-trichloro- |              | 196 | C6H3Cl3O | 000933-78-8 | 76   |
| 4       | Phenol, 2,3,4-trichloro- |              | 196 | C6H3Cl3O | 015950-66-0 | 74   |
| 5       | Phenol, 2,4,5-trichloro- |              | 196 | C6H3Cl3O | 000095-95-4 | 72   |



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Acq On : 26 Jan 2017 13:11  
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Sample : I1387-08DL 20X  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA9R4DL

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG011817.M  
Quant Title : SVOA CALIBRATION

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

| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                      |       |         |       |          | #                     | RT    | Resp    | Conc |
| unknown-01           | 11.26 | 2.5     | ng/ul | 94504    | 2                     | 11.00 | 745408  | 20.0 |
| unknown-02           | 15.15 | 2.3     | ng/ul | 140978   | 3                     | 14.81 | 1221850 | 20.0 |
| 3,7 Dimethyloctyl... | 15.40 | 2.1     | ng/ul | 128615   | 3                     | 14.81 | 1221850 | 20.0 |
| Phenol, 3,4,5-tri... | 15.97 | 3.9     | ng/ul | 235267   | 3                     | 14.81 | 1221850 | 20.0 |