

Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
 Data File : BG025136.D  
 Acq On : 13 Dec 2016 5:17  
 Operator : UM/SJ  
 Sample : H5860-20  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 DA8E6

## 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-BG113016.M  
 Title : SVOA CALIBRATION

Signal : TIC

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 2.898       | 7             | 10          | 21           | rVB5     | 36896          | 75026         | 1.21%           | 0.167%        |
| 2         | 3.274       | 69            | 74          | 86           | rVB4     | 45795          | 83058         | 1.34%           | 0.184%        |
| 3         | 3.362       | 86            | 89          | 95           | rBV5     | 29144          | 46236         | 0.75%           | 0.103%        |
| 4         | 3.561       | 118           | 123         | 126          | rBV6     | 8177           | 14838         | 0.24%           | 0.033%        |
| 5         | 3.591       | 126           | 128         | 133          | rVV4     | 14762          | 19910         | 0.32%           | 0.044%        |
| 6         | 4.131       | 214           | 220         | 226          | rBV2     | 36655          | 63819         | 1.03%           | 0.142%        |
| 7         | 4.554       | 284           | 292         | 295          | rBV7     | 6908           | 16706         | 0.27%           | 0.037%        |
| 8         | 4.901       | 345           | 351         | 363          | rVB      | 149199         | 273992        | 4.43%           | 0.608%        |
| 9         | 5.171       | 394           | 397         | 402          | rVV5     | 8543           | 13817         | 0.22%           | 0.031%        |
| 10        | 5.306       | 413           | 420         | 423          | rBV5     | 9557           | 15474         | 0.25%           | 0.034%        |
| 11        | 5.389       | 429           | 434         | 443          | rVB7     | 12405          | 23444         | 0.38%           | 0.052%        |
| 12        | 5.741       | 490           | 494         | 502          | rBV8     | 5138           | 13908         | 0.22%           | 0.031%        |
| 13        | 7.386       | 764           | 774         | 787          | rBV3     | 258265         | 576564        | 9.33%           | 1.280%        |
| 14        | 7.551       | 794           | 802         | 811          | rVB      | 175153         | 318676        | 5.16%           | 0.708%        |
| 15        | 7.668       | 816           | 822         | 827          | rBV7     | 13667          | 24309         | 0.39%           | 0.054%        |
| 16        | 7.768       | 832           | 839         | 849          | rBV2     | 248300         | 478677        | 7.74%           | 1.063%        |
| 17        | 8.238       | 911           | 919         | 929          | rBV2     | 442906         | 789129        | 12.77%          | 1.752%        |
| 18        | 8.438       | 949           | 953         | 959          | rBV6     | 11717          | 17961         | 0.29%           | 0.040%        |
| 19        | 8.943       | 1032          | 1039        | 1052         | rBV2     | 311625         | 613219        | 9.92%           | 1.361%        |
| 20        | 9.413       | 1111          | 1119        | 1130         | rBV      | 263271         | 510321        | 8.26%           | 1.133%        |
| 21        | 9.748       | 1168          | 1176        | 1179         | rBV9     | 10859          | 23599         | 0.38%           | 0.052%        |
| 22        | 10.142      | 1234          | 1243        | 1251         | rVV2     | 244896         | 463076        | 7.49%           | 1.028%        |
| 23        | 10.683      | 1326          | 1335        | 1351         | rBV2     | 338287         | 672751        | 10.88%          | 1.494%        |
| 24        | 10.988      | 1382          | 1387        | 1392         | rVV8     | 11180          | 20727         | 0.34%           | 0.046%        |
| 25        | 11.064      | 1392          | 1400        | 1414         | rVV      | 609475         | 1161925       | 18.80%          | 2.580%        |
| 26        | 11.205      | 1414          | 1424        | 1439         | rVV3     | 108026         | 277152        | 4.48%           | 0.615%        |
| 27        | 12.028      | 1553          | 1564        | 1569         | rBV7     | 11922          | 36110         | 0.58%           | 0.080%        |
| 28        | 12.410      | 1624          | 1629        | 1635         | rVB7     | 14492          | 32731         | 0.53%           | 0.073%        |
| 29        | 12.645      | 1661          | 1669        | 1672         | rVB9     | 14768          | 31248         | 0.51%           | 0.069%        |
| 30        | 13.044      | 1732          | 1737        | 1739         | rBV5     | 10241          | 15002         | 0.24%           | 0.033%        |
| 31        | 13.221      | 1761          | 1767        | 1769         | rBV6     | 13908          | 22835         | 0.37%           | 0.051%        |
| 32        | 13.297      | 1774          | 1780        | 1786         | rBV9     | 15080          | 32093         | 0.52%           | 0.071%        |
| 33        | 13.350      | 1786          | 1789        | 1796         | rVV6     | 18522          | 29385         | 0.48%           | 0.065%        |
| 34        | 13.450      | 1800          | 1806        | 1813         | rVB6     | 15214          | 30759         | 0.50%           | 0.068%        |

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 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-BG113016.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 13.638 | 1832 | 1838 | 1844 | rVV9  | 31362   | 58683   | 0.95%  | 0.130% |
| 36 | 13.738 | 1850 | 1855 | 1859 | rVB7  | 11930   | 26674   | 0.43%  | 0.059% |
| 37 | 13.791 | 1859 | 1864 | 1873 | rBV7  | 15339   | 40582   | 0.66%  | 0.090% |
| 38 | 14.043 | 1901 | 1907 | 1910 | rBV8  | 14017   | 18624   | 0.30%  | 0.041% |
| 39 | 14.131 | 1917 | 1922 | 1926 | rBV8  | 8784    | 18304   | 0.30%  | 0.041% |
| 40 | 14.249 | 1933 | 1942 | 1947 | rVV   | 616222  | 992674  | 16.06% | 2.204% |
| 41 | 14.296 | 1947 | 1950 | 1959 | rVB   | 173533  | 256066  | 4.14%  | 0.569% |
| 42 | 14.490 | 1975 | 1983 | 1987 | rBV   | 15138   | 43822   | 0.71%  | 0.097% |
| 43 | 14.560 | 1987 | 1995 | 2003 | rVV   | 652031  | 1106363 | 17.90% | 2.456% |
| 44 | 14.625 | 2004 | 2006 | 2010 | rVV4  | 16166   | 19070   | 0.31%  | 0.042% |
| 45 | 14.672 | 2010 | 2014 | 2017 | rVV5  | 33123   | 53637   | 0.87%  | 0.119% |
| 46 | 14.701 | 2017 | 2019 | 2023 | rVB4  | 41556   | 43038   | 0.70%  | 0.096% |
| 47 | 14.860 | 2034 | 2046 | 2052 | rBV   | 1012382 | 1624378 | 26.28% | 3.606% |
| 48 | 14.919 | 2052 | 2056 | 2062 | rVB6  | 42398   | 66771   | 1.08%  | 0.148% |
| 49 | 15.066 | 2073 | 2081 | 2092 | rBV2  | 224733  | 493029  | 7.98%  | 1.095% |
| 50 | 15.213 | 2100 | 2106 | 2109 | rBV8  | 27923   | 57305   | 0.93%  | 0.127% |
| 51 | 15.254 | 2110 | 2113 | 2119 | rVB6  | 32208   | 56585   | 0.92%  | 0.126% |
| 52 | 15.318 | 2121 | 2124 | 2132 | rVB9  | 28073   | 48553   | 0.79%  | 0.108% |
| 53 | 15.459 | 2143 | 2148 | 2154 | rBV10 | 26593   | 66233   | 1.07%  | 0.147% |
| 54 | 15.647 | 2170 | 2180 | 2186 | rBV4  | 82916   | 164776  | 2.67%  | 0.366% |
| 55 | 15.847 | 2205 | 2214 | 2221 | rBV2  | 900305  | 1512158 | 24.46% | 3.357% |
| 56 | 15.965 | 2228 | 2234 | 2241 | rVB   | 303119  | 440465  | 7.13%  | 0.978% |
| 57 | 16.053 | 2242 | 2249 | 2253 | rVV3  | 60242   | 106072  | 1.72%  | 0.235% |
| 58 | 16.088 | 2254 | 2255 | 2262 | rVB7  | 25476   | 36035   | 0.58%  | 0.080% |
| 59 | 16.153 | 2262 | 2266 | 2269 | rBV6  | 25074   | 40765   | 0.66%  | 0.091% |
| 60 | 16.270 | 2283 | 2286 | 2292 | rBV8  | 18843   | 32303   | 0.52%  | 0.072% |
| 61 | 16.346 | 2293 | 2299 | 2304 | rBV10 | 21500   | 48625   | 0.79%  | 0.108% |
| 62 | 16.405 | 2306 | 2309 | 2313 | rBV6  | 27336   | 31507   | 0.51%  | 0.070% |
| 63 | 16.529 | 2322 | 2330 | 2345 | rBV2  | 164422  | 441166  | 7.14%  | 0.979% |
| 64 | 16.652 | 2346 | 2351 | 2353 | rBV6  | 18915   | 31252   | 0.51%  | 0.069% |
| 65 | 16.911 | 2390 | 2395 | 2398 | rVB7  | 36110   | 57380   | 0.93%  | 0.127% |
| 66 | 17.257 | 2450 | 2454 | 2458 | rBV5  | 36037   | 65352   | 1.06%  | 0.145% |
| 67 | 17.298 | 2458 | 2461 | 2465 | rVV2  | 83881   | 96346   | 1.56%  | 0.214% |
| 68 | 17.345 | 2465 | 2469 | 2474 | rVV3  | 88797   | 149442  | 2.42%  | 0.332% |
| 69 | 17.422 | 2479 | 2482 | 2487 | rVB2  | 51526   | 67719   | 1.10%  | 0.150% |
| 70 | 17.533 | 2499 | 2501 | 2505 | rVB5  | 23555   | 25986   | 0.42%  | 0.058% |
| 71 | 17.604 | 2506 | 2513 | 2517 | rBV2  | 1122127 | 1895572 | 30.67% | 4.208% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG113016.M  
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|     |        |      |      |      |      |         |         |         |         |
|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 17.645 | 2517 | 2520 | 2525 | rVV  | 861258  | 1267486 | 20.50%  | 2.814%  |
| 73  | 17.704 | 2525 | 2530 | 2540 | rVB  | 917699  | 1603554 | 25.94%  | 3.560%  |
| 74  | 17.792 | 2543 | 2545 | 2550 | rVB5 | 57834   | 81387   | 1.32%   | 0.181%  |
| 75  | 17.950 | 2570 | 2572 | 2577 | rBV4 | 35366   | 42408   | 0.69%   | 0.094%  |
| 76  | 18.003 | 2577 | 2581 | 2584 | rBV2 | 102005  | 178964  | 2.90%   | 0.397%  |
| 77  | 18.186 | 2609 | 2612 | 2617 | rVB7 | 33638   | 48385   | 0.78%   | 0.107%  |
| 78  | 18.321 | 2632 | 2635 | 2640 | rBV7 | 36917   | 54941   | 0.89%   | 0.122%  |
| 79  | 18.444 | 2651 | 2656 | 2659 | rBV  | 237903  | 342552  | 5.54%   | 0.761%  |
| 80  | 18.520 | 2666 | 2669 | 2673 | rVB3 | 108595  | 152680  | 2.47%   | 0.339%  |
| 81  | 18.579 | 2676 | 2679 | 2681 | rBV4 | 44860   | 57968   | 0.94%   | 0.129%  |
| 82  | 18.673 | 2688 | 2695 | 2699 | rBV4 | 134413  | 320532  | 5.19%   | 0.712%  |
| 83  | 18.961 | 2739 | 2744 | 2748 | rBV4 | 121103  | 218789  | 3.54%   | 0.486%  |
| 84  | 19.014 | 2748 | 2753 | 2759 | rVB  | 332970  | 528293  | 8.55%   | 1.173%  |
| 85  | 19.173 | 2777 | 2780 | 2788 | rVB7 | 112256  | 180249  | 2.92%   | 0.400%  |
| 86  | 19.372 | 2811 | 2814 | 2817 | rVB2 | 103860  | 119194  | 1.93%   | 0.265%  |
| 87  | 19.525 | 2834 | 2840 | 2843 | rBV5 | 127961  | 262386  | 4.24%   | 0.583%  |
| 88  | 19.560 | 2843 | 2846 | 2851 | rVB4 | 112798  | 170964  | 2.77%   | 0.380%  |
| 89  | 19.643 | 2854 | 2860 | 2865 | rBV  | 1959956 | 2922888 | 47.28%  | 6.489%  |
| 90  | 19.866 | 2895 | 2898 | 2901 | rBV4 | 101346  | 147019  | 2.38%   | 0.326%  |
| 91  | 19.978 | 2910 | 2917 | 2919 | rBV2 | 1351858 | 2295450 | 37.13%  | 5.096%  |
| 92  | 20.007 | 2919 | 2922 | 2928 | rVB  | 1517092 | 2022572 | 32.72%  | 4.490%  |
| 93  | 20.066 | 2928 | 2932 | 2936 | rBV5 | 141120  | 268281  | 4.34%   | 0.596%  |
| 94  | 21.270 | 3133 | 3137 | 3143 | rBV3 | 227041  | 444027  | 7.18%   | 0.986%  |
| 95  | 21.899 | 3236 | 3244 | 3249 | rBV3 | 1230160 | 2897011 | 46.87%  | 6.432%  |
| 96  | 21.946 | 3249 | 3252 | 3261 | rVB  | 615817  | 1114612 | 18.03%  | 2.475%  |
| 97  | 23.356 | 3474 | 3492 | 3493 | rBV7 | 1611795 | 6181495 | 100.00% | 13.724% |
| 98  | 24.225 | 3635 | 3640 | 3648 | rBV3 | 470467  | 1269336 | 20.53%  | 2.818%  |
| 99  | 25.095 | 3783 | 3788 | 3795 | rVB3 | 328528  | 741281  | 11.99%  | 1.646%  |
| 100 | 25.336 | 3821 | 3829 | 3840 | rVB2 | 577250  | 1935743 | 31.32%  | 4.298%  |

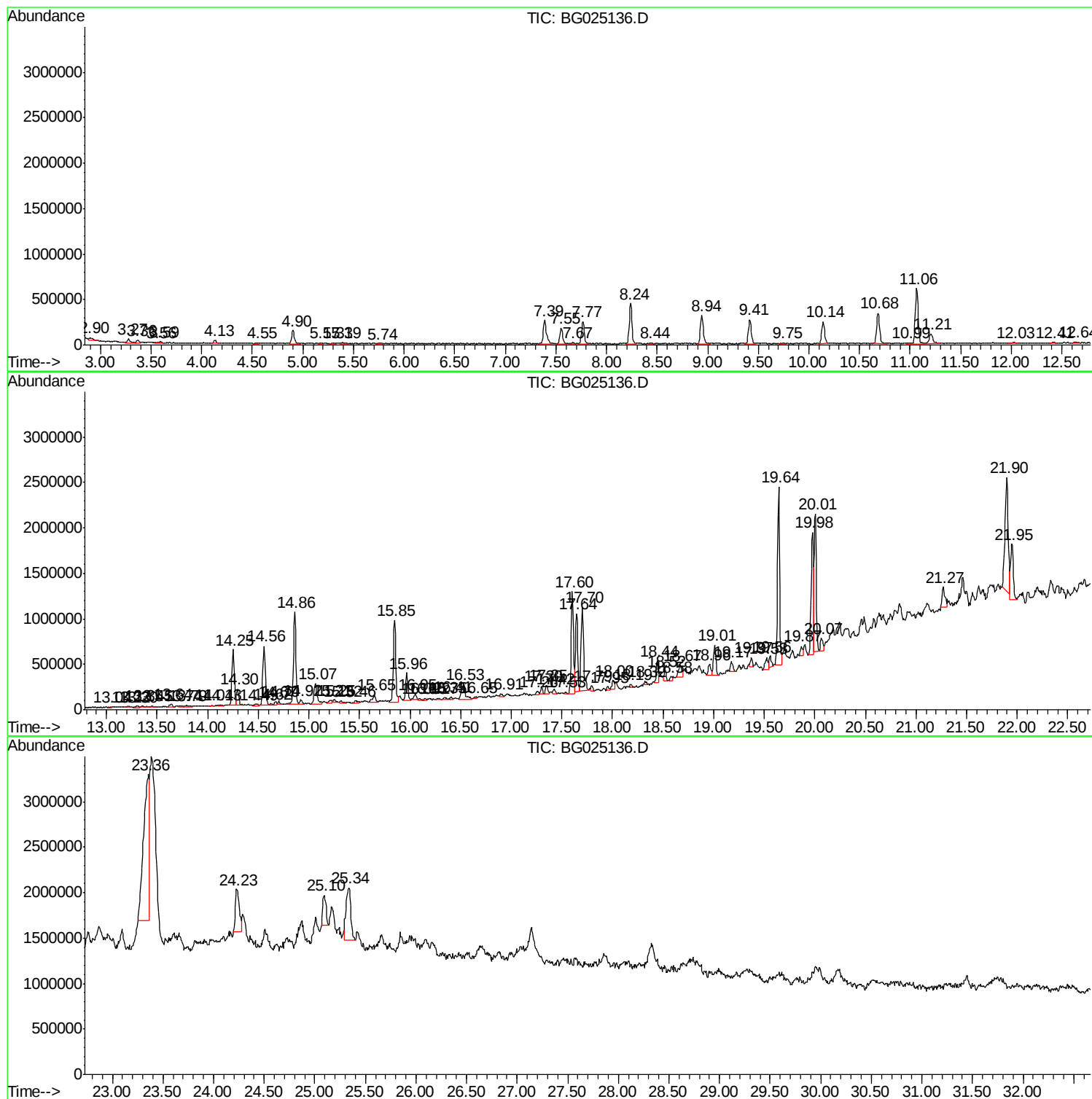
Sum of corrected areas: 45042236

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

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



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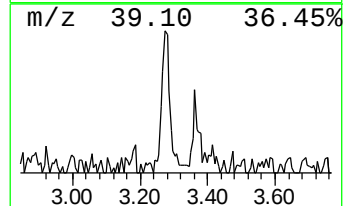
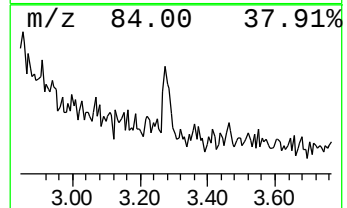
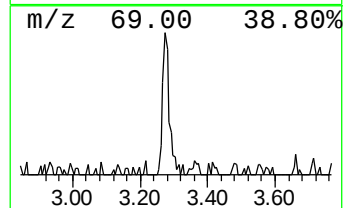
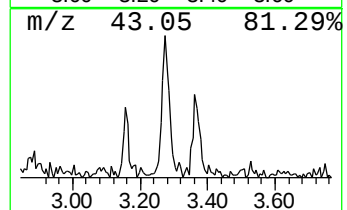
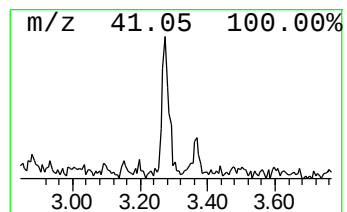
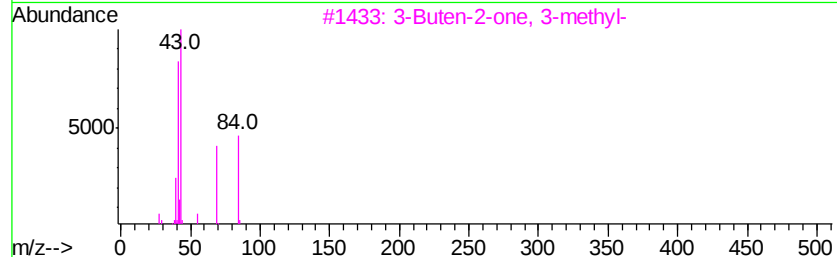
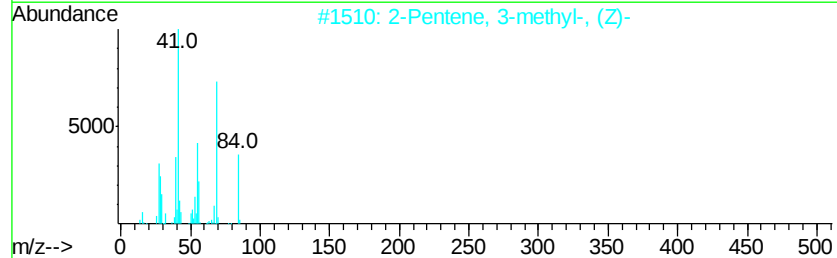
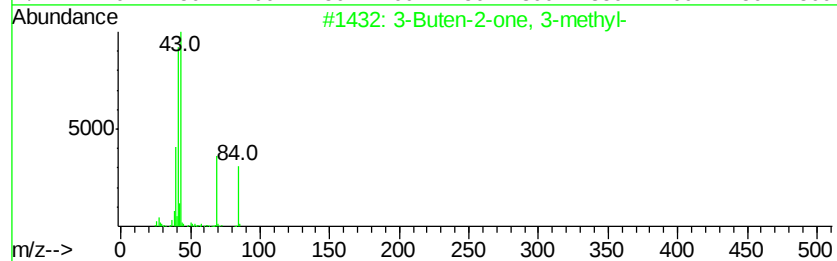
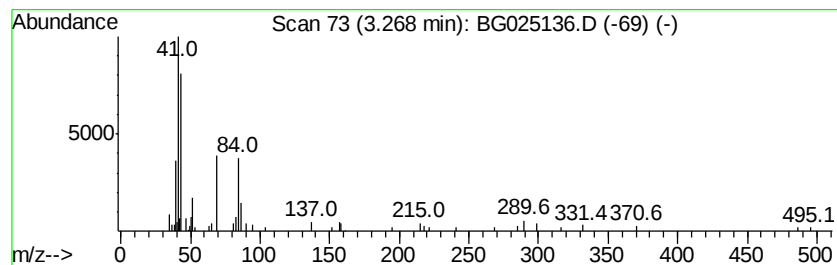
Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 unknown-01 Concentration Rank 10

| R.T. | EstConc    | Area  | Relative to ISTD       | R.T. |
|------|------------|-------|------------------------|------|
| 3.27 | 2.11 ng/ul | 83058 | 1,4-Dichlorobenzene-d4 | 8.24 |

| Hit# | of | 5 | Tentative ID               | MW  | MolForm  | CAS#        | Qual |
|------|----|---|----------------------------|-----|----------|-------------|------|
| 1    |    |   | 3-Buten-2-one, 3-methyl-   | 84  | C5H8O    | 000814-78-8 | 38   |
| 2    |    |   | 2-Pentene, 3-methyl-, (Z)- | 84  | C6H12    | 000922-62-3 | 32   |
| 3    |    |   | 3-Buten-2-one, 3-methyl-   | 84  | C5H8O    | 000814-78-8 | 32   |
| 4    |    |   | .beta.-Chlordene           | 336 | C10H6Cl6 | 056534-03-3 | 11   |
| 5    |    |   | 2-Pentene, 3-methyl-       | 84  | C6H12    | 000922-61-2 | 9    |



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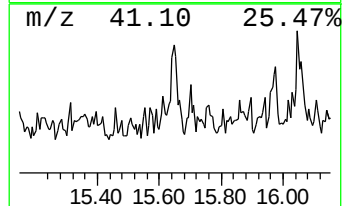
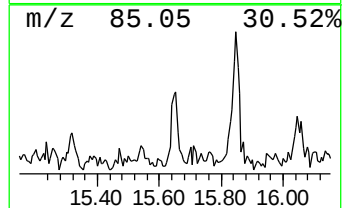
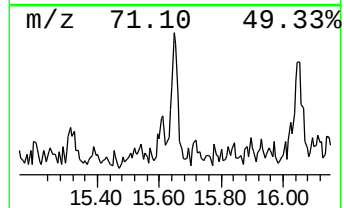
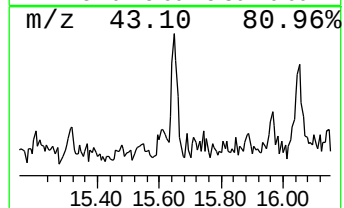
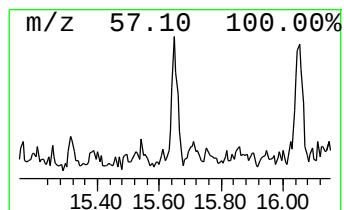
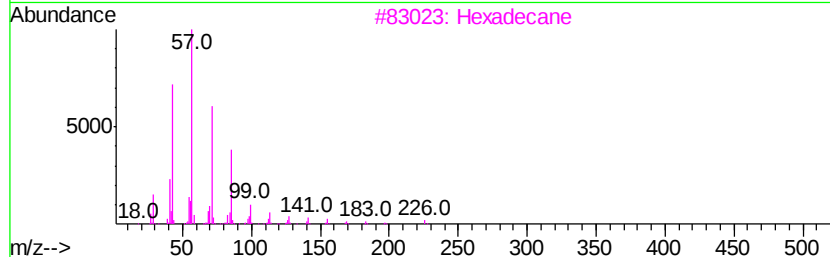
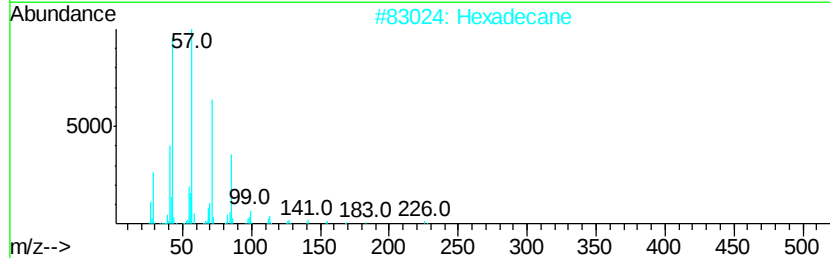
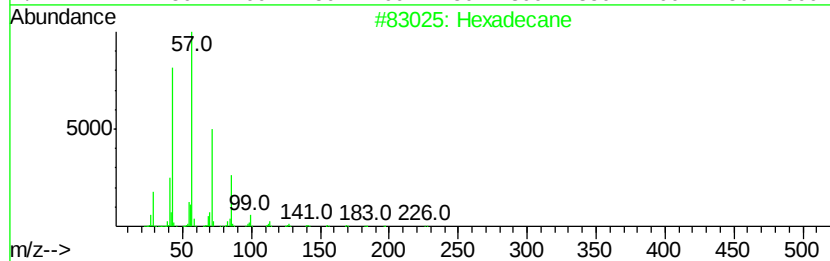
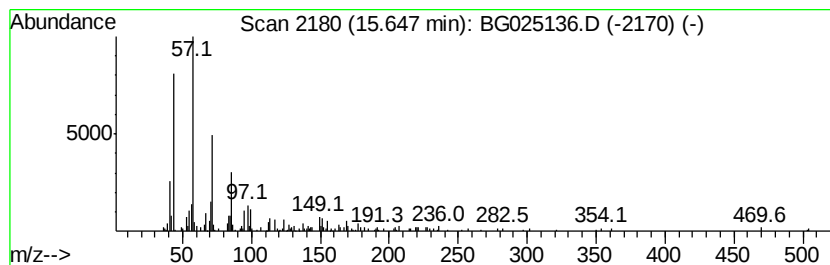
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 15.65 | 2.03 ng/ul | 164776 | Acenaphthene-d10 | 14.86 |

| Hit# | of | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------|-----|---------|-------------|------|
| 1    | 5  | Hexadecane           | 226 | C16H34  | 000544-76-3 | 94   |
| 2    |    | Hexadecane           | 226 | C16H34  | 000544-76-3 | 89   |
| 3    |    | Hexadecane           | 226 | C16H34  | 000544-76-3 | 76   |
| 4    |    | Eicosane             | 282 | C20H42  | 000112-95-8 | 74   |
| 5    |    | Eicosane, 10-methyl- | 296 | C21H44  | 054833-23-7 | 72   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

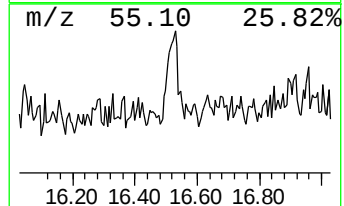
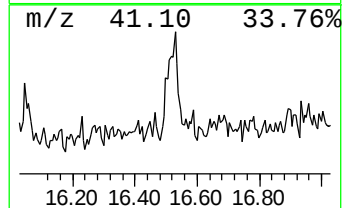
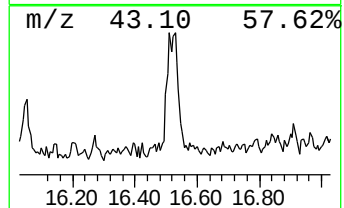
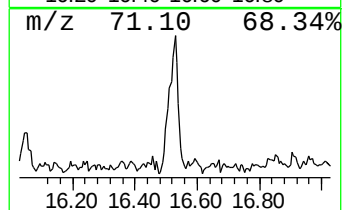
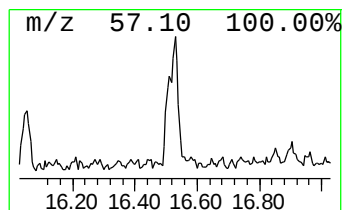
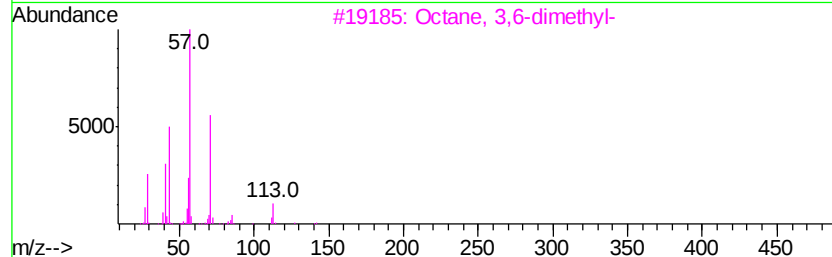
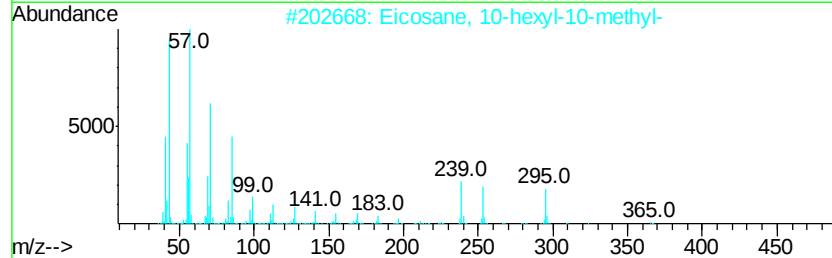
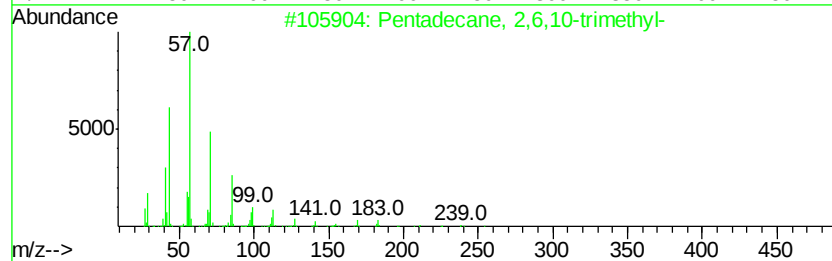
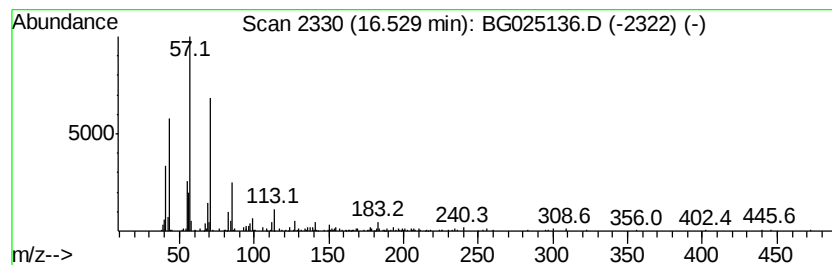
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 16.53 | 4.65 ng/ul | 441166 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|--------------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentadecane, 2,6,10-trimethyl- | 254 | C18H38  | 003892-00-0 | 78   |
| 2    |    | Eicosane, 10-hexyl-10-methyl-  | 380 | C27H56  | 055282-32-1 | 72   |
| 3    |    | Octane, 3,6-dimethyl-          | 142 | C10H22  | 015869-94-0 | 68   |
| 4    |    | Undecane, 6-ethyl-             | 184 | C13H28  | 017312-60-6 | 64   |
| 5    |    | Undecane, 4,6-dimethyl-        | 184 | C13H28  | 017312-82-2 | 64   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

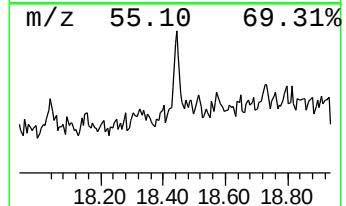
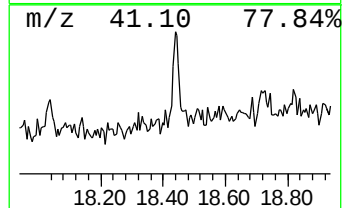
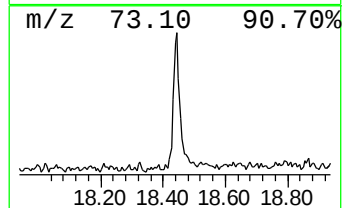
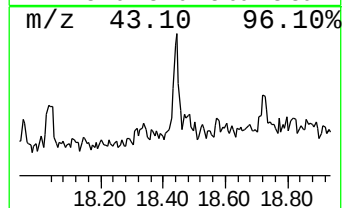
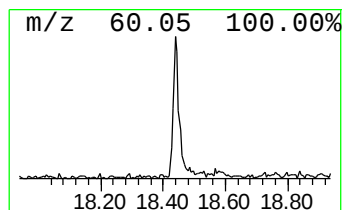
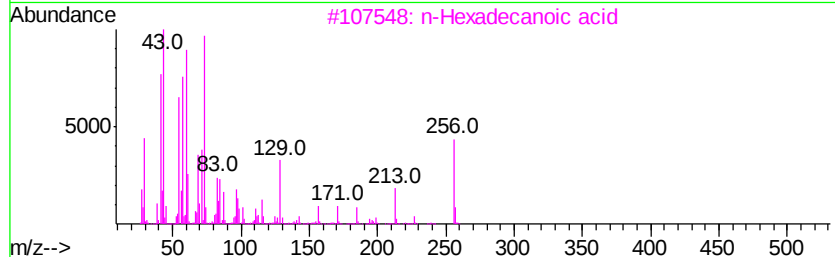
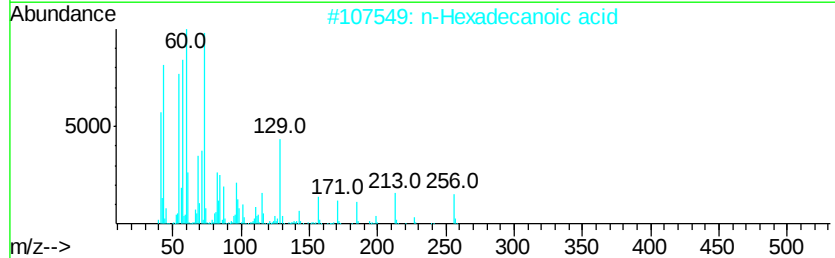
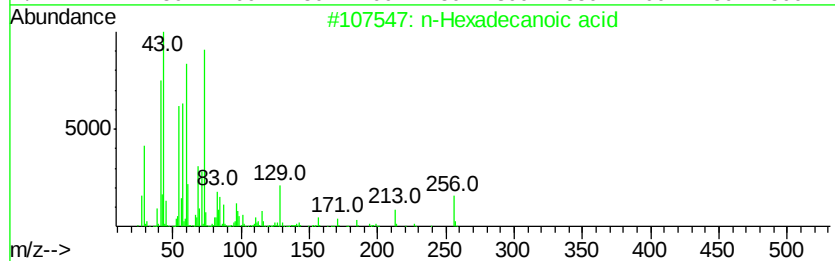
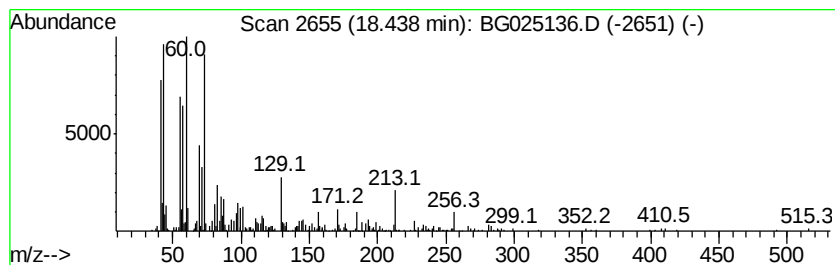
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 n-Hexadecanoic acid Concentration Rank 5

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.44 | 3.61 ng/ul | 342552 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 92   |
| 2    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 68   |
| 3    |    | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 64   |
| 4    |    | Dodecanoic acid     | 200 | C12H24O2 | 000143-07-7 | 59   |
| 5    |    | Octadecanoic acid   | 284 | C18H36O2 | 000057-11-4 | 58   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

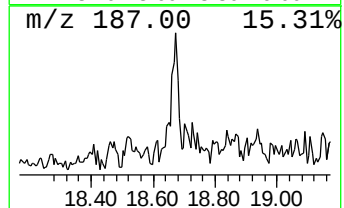
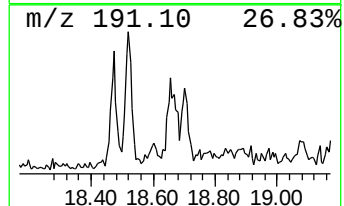
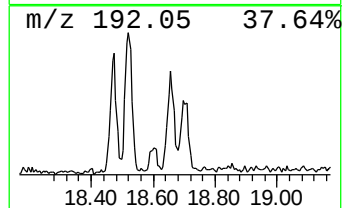
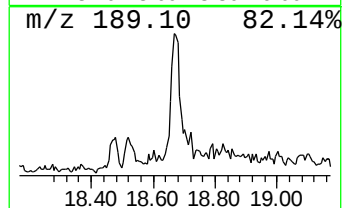
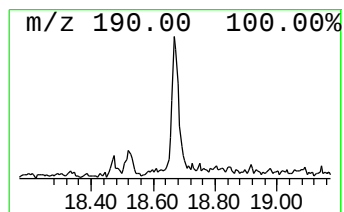
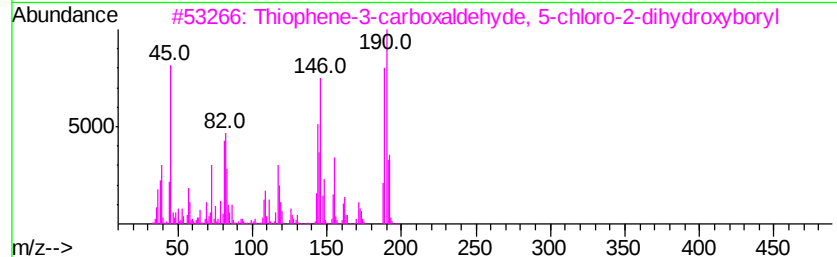
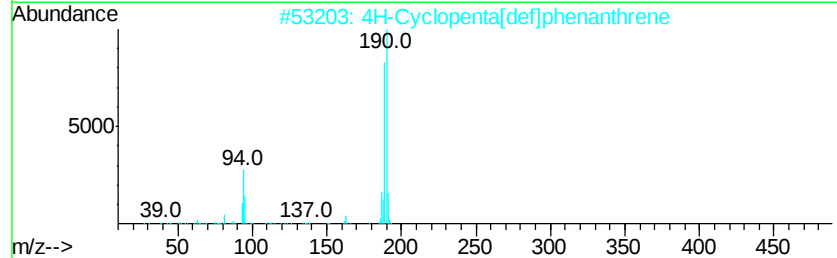
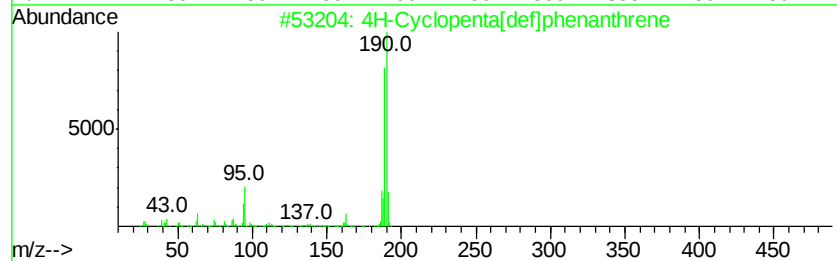
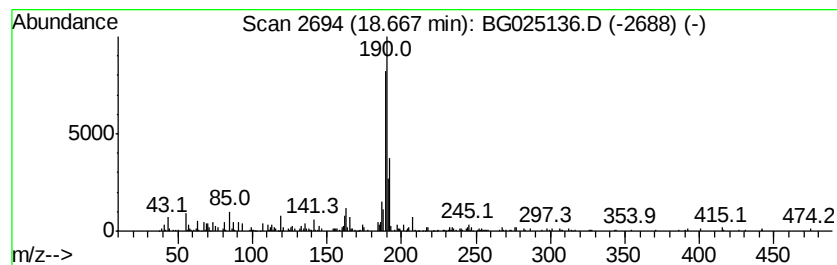
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 4H-Cyclopenta[def]phenanthrene Concentration Rank 6

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.67 | 3.38 ng/ul | 320532 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 81   |
| 2    |    | 4H-Cyclopenta[def]phenanthrene      | 190 | C15H10     | 000203-64-5  | 64   |
| 3    |    | Thiophene-3-carboxaldehyd, 5-ch...  | 190 | C5H4BClO3S | 036155-87-0  | 53   |
| 4    |    | 1H-Pyrazole-4-carboxaldehyd, 1-...  | 190 | C10H7FN2O  | 1000338-05-6 | 50   |
| 5    |    | 6,7-Methylenedioxy-4(3H)-quinazo... | 190 | C9H6N2O3   | 028310-11-4  | 50   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

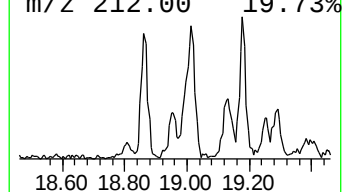
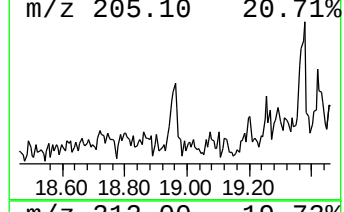
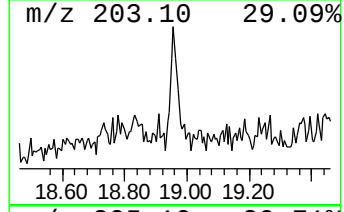
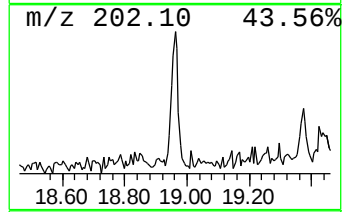
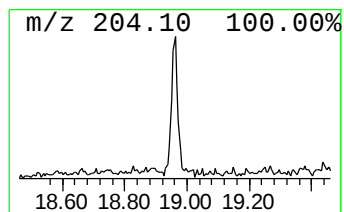
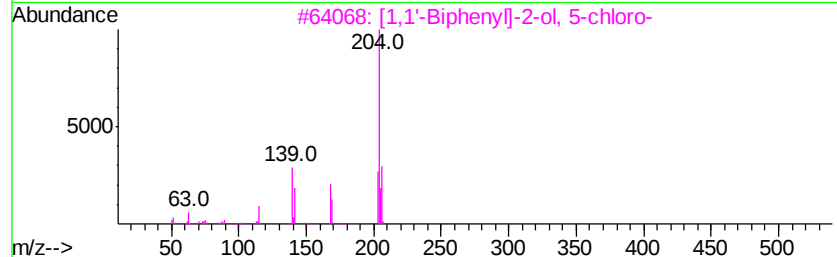
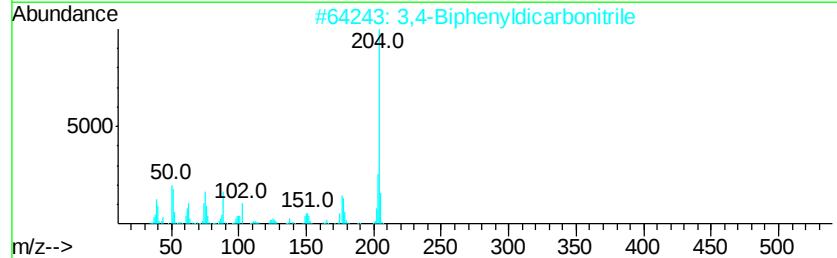
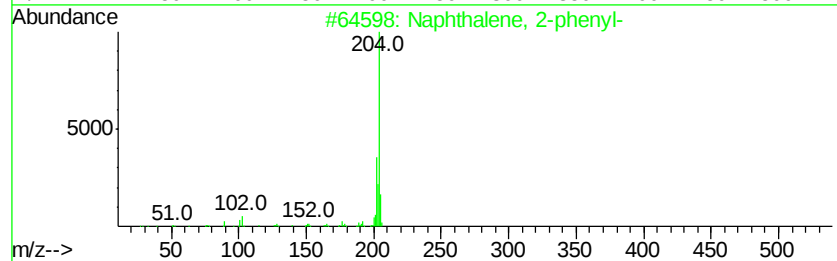
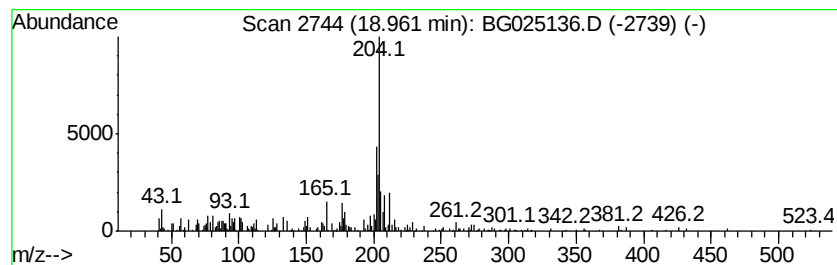
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 unknown-02 Concentration Rank 9

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 18.96 | 2.31 ng/ul | 218789 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm  | CAS#        | Qual |
|------|----|-------------------------------------|-----|----------|-------------|------|
| 1    | 5  | Naphthalene, 2-phenyl-              | 204 | C16H12   | 000612-94-2 | 49   |
| 2    |    | 3,4-Biphenyldicarbonitrile          | 204 | C14H8N2  | 004128-63-6 | 47   |
| 3    |    | [1,1'-Biphenyl]-2-ol, 5-chloro-     | 204 | C12H9ClO | 000607-12-5 | 47   |
| 4    |    | Tricyclo[8.2.2.2(4,7)]hexadeca-2... | 204 | C16H12   | 006572-60-7 | 47   |
| 5    |    | Naphthalene, 2-phenyl-              | 204 | C16H12   | 000612-94-2 | 47   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

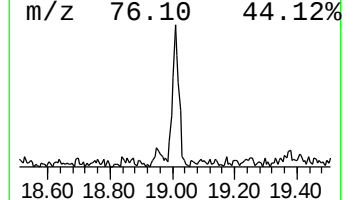
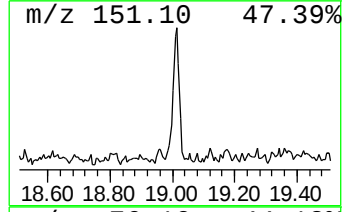
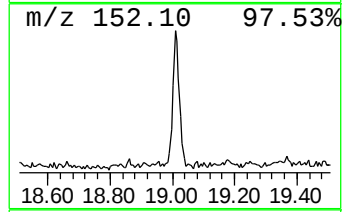
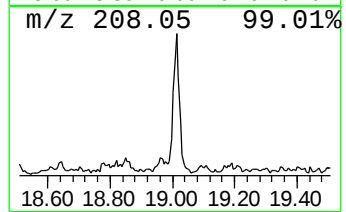
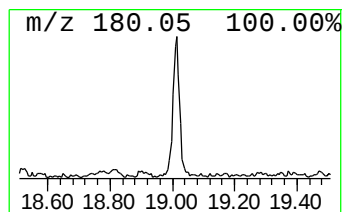
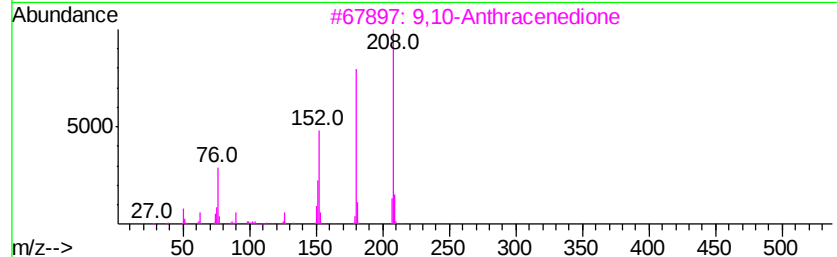
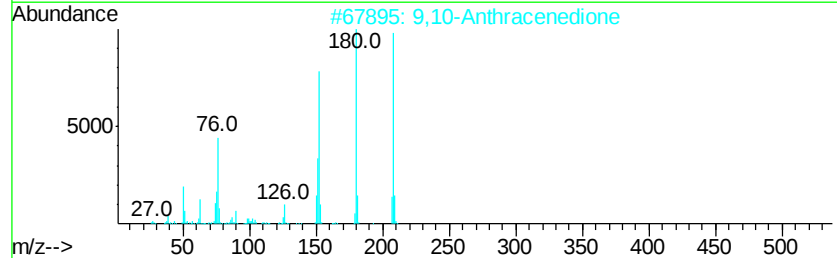
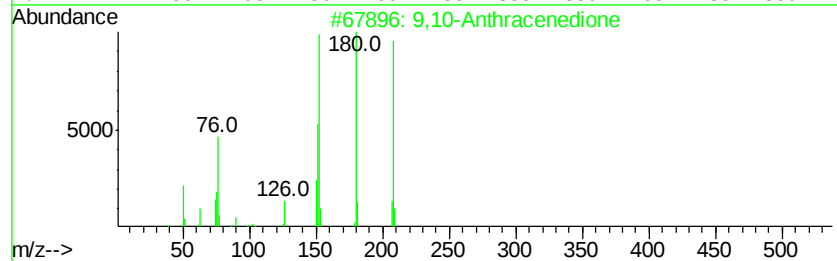
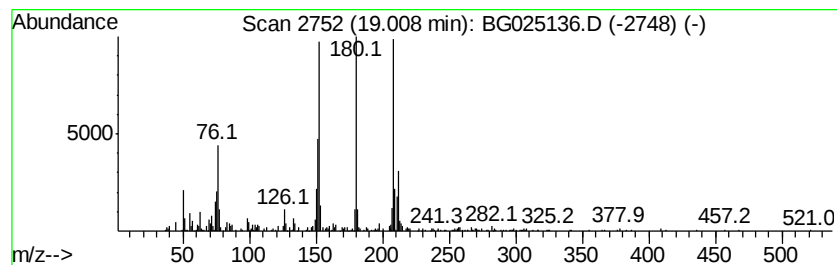
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 8 9,10-Anthracenedione Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.01 | 5.57 ng/ul | 528293 | Phenanthrene-d10 | 17.60 |

| Hit# | of | 5 | Tentative ID         | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------|-----|---------|-------------|------|
| 1    |    |   | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 97   |
| 2    |    |   | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 95   |
| 3    |    |   | 9,10-Anthracenedione | 208 | C14H8O2 | 000084-65-1 | 91   |
| 4    |    |   | 9H-Fluoren-9-one     | 180 | C13H8O  | 000486-25-9 | 78   |
| 5    |    |   | Benzo[c]cinnoline    | 180 | C12H8N2 | 000230-17-1 | 60   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

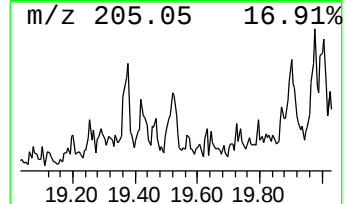
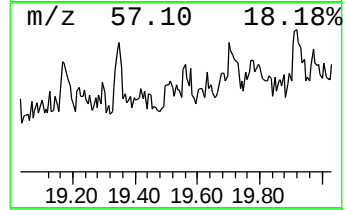
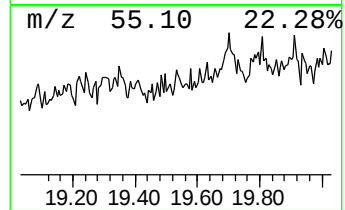
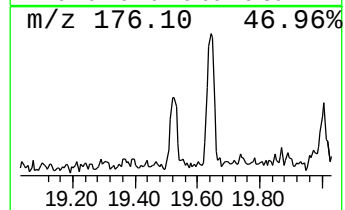
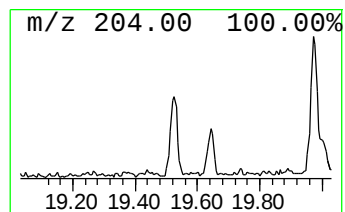
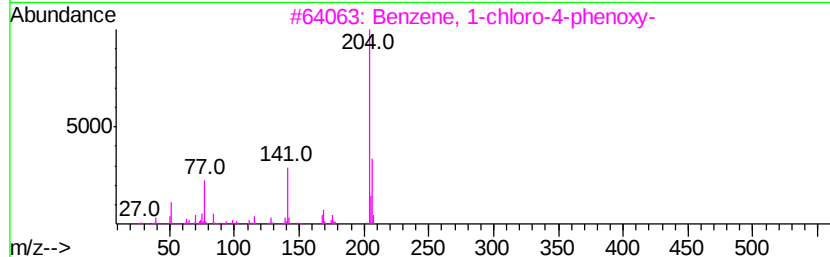
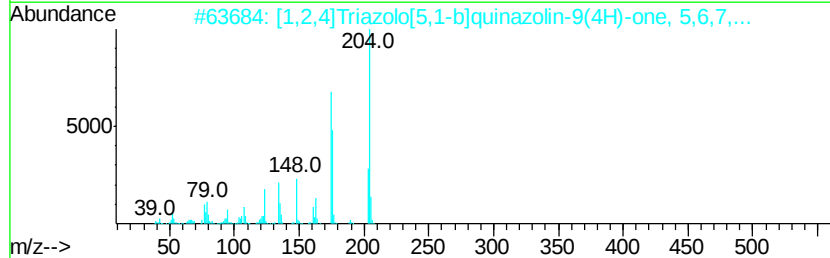
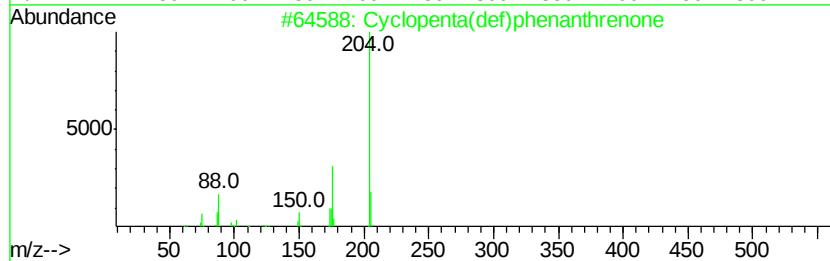
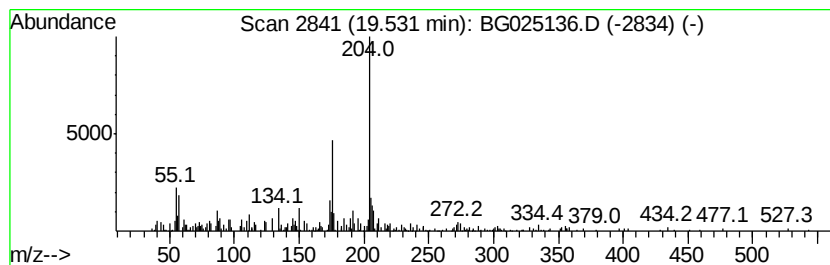
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TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 9 Cyclopenta(def)phenanthrenone Concentration Rank 8

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 19.53 | 2.77 ng/ul | 262386 | Phenanthrene-d10 | 17.60 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Cyclopenta(def)phenanthrenone       | 204 | C15H8O      | 005737-13-3  | 64   |
| 2    |    | [1,2,4]Triazolo[5,1-b]quinazolin... | 204 | C10H12N4O   | 1000337-56-5 | 59   |
| 3    |    | Benzene, 1-chloro-4-phenoxy-        | 204 | C12H9ClO    | 007005-72-3  | 50   |
| 4    |    | 1-(2-Acetyl-3-chlorophenyl)-1H-p... | 247 | C13H10ClNO2 | 1000306-70-9 | 50   |
| 5    |    | 2-Chloro-4-phenylphenol             | 204 | C12H9ClO    | 000092-04-6  | 49   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

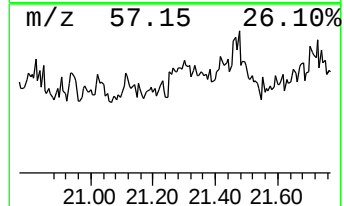
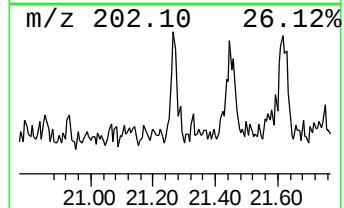
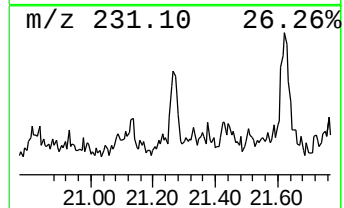
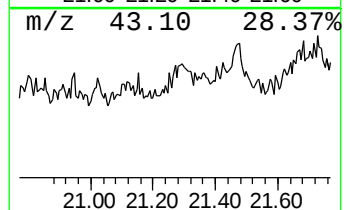
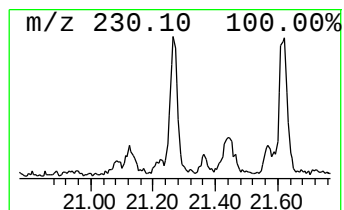
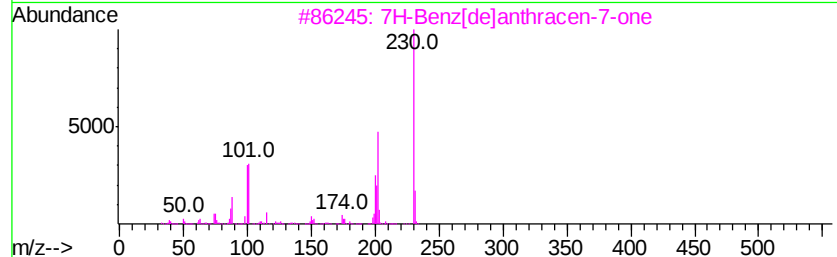
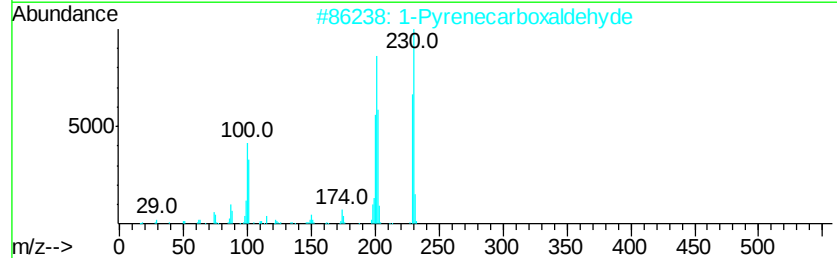
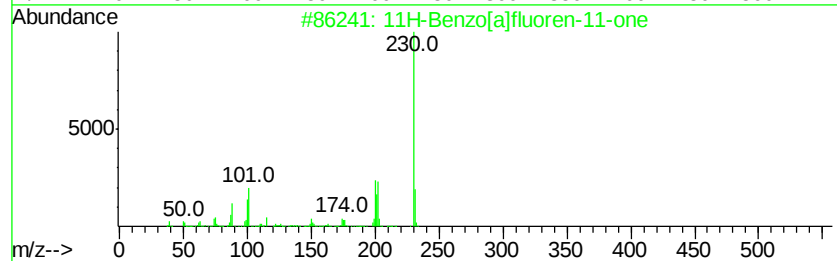
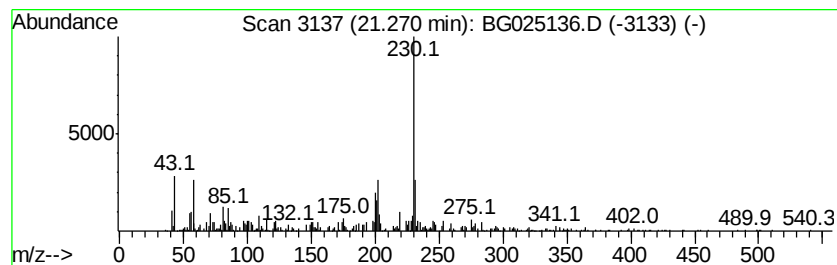
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 10 11H-Benzo[a]fluoren-11-one Concentration Rank 7

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 21.27 | 3.07 ng/ul | 444027 | Chrysene-d12     | 21.90 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | 11H-Benzo[a]fluoren-11-one | 230 | C17H10O | 000479-79-8 | 81   |
| 2    |    | 1-Pyrenecarboxaldehyde     | 230 | C17H10O | 003029-19-4 | 64   |
| 3    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 59   |
| 4    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 52   |
| 5    |    | 7H-Benz[de]anthracen-7-one | 230 | C17H10O | 000082-05-3 | 52   |



Data Path : Z:\HPCHEM1\BNA G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

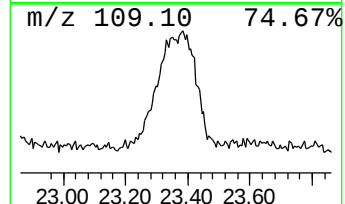
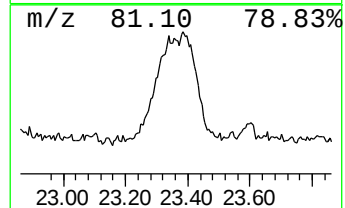
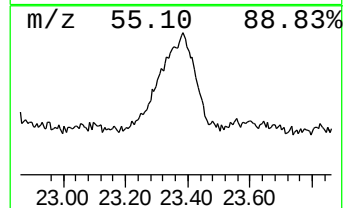
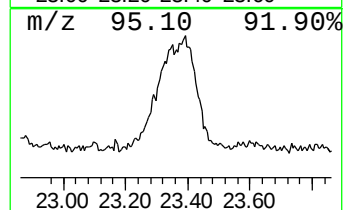
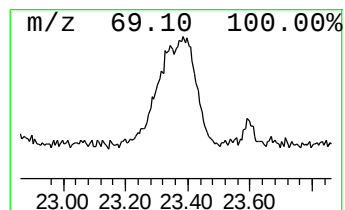
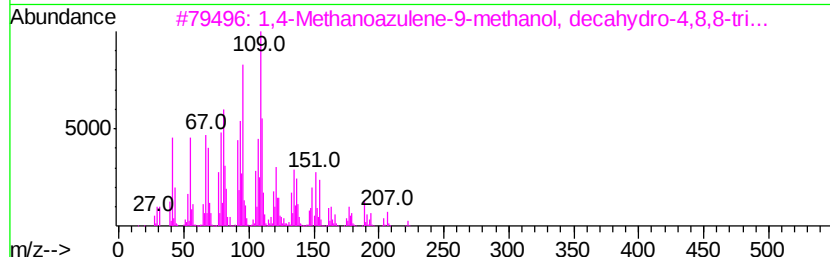
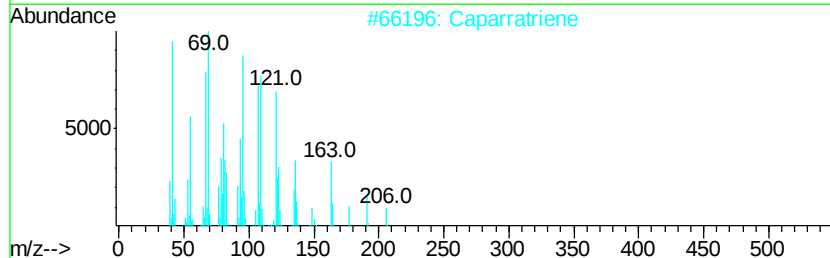
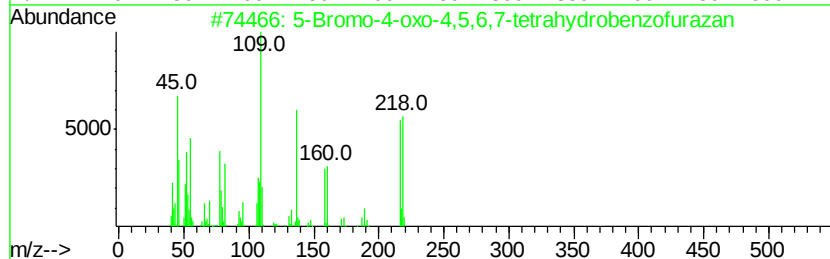
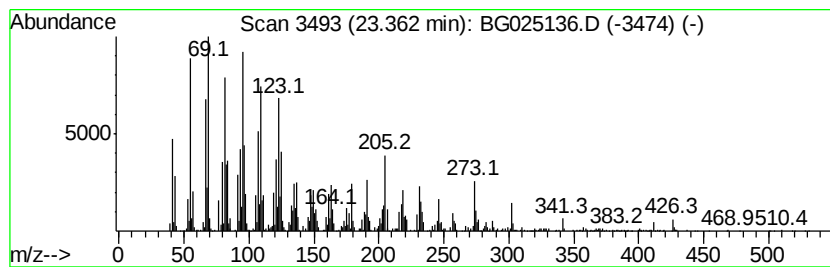
Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG113016.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 11 5-Bromo-4-oxo-4,5,6,7-tetra... Concentration Rank 1

| R.T.      | EstConc                             | Area    | Relative to ISTD | R.T.         |      |
|-----------|-------------------------------------|---------|------------------|--------------|------|
| 23.36     | 42.68 ng/ul                         | 6181500 | Chrysene-d12     | 21.90        |      |
| Hit# of 5 | Tentative ID                        | MW      | MolForm          | CAS#         | Qual |
| 1         | 5-Bromo-4-oxo-4,5,6,7-tetrahydro... | 216     | C6H5BrN2O2       | 300574-36-1  | 60   |
| 2         | Caparratriene                       | 206     | C15H26           | 1000374-08-7 | 55   |
| 3         | 1,4-Methanoazulene-9-methanol, d... | 222     | C15H26O          | 001139-17-9  | 52   |
| 4         | Friedelan-3-one                     | 426     | C30H50O          | 000559-74-0  | 50   |
| 5         | Cyclohexanecarboxaldehyde, 4-(hy... | 142     | C8H14O2          | 092385-32-5  | 48   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG121216\  
Data File : BG025136.D  
Acq On : 13 Dec 2016 5:17  
Operator : UM/SJ  
Sample : H5860-20  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
DA8E6

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG113016.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           | 3.27  | 2.1     | ng/ul | 83058    | 1                     | 8.24  | 789129  | 20.0 |
| (DEL) Alkane: Str... | 15.65 | 2.0     | ng/ul | 164776   | 3                     | 14.86 | 1624380 | 20.0 |
| (DEL) Alkane: Str... | 16.53 | 4.7     | ng/ul | 441166   | 4                     | 17.60 | 1895570 | 20.0 |
| n-Hexadecanoic acid  | 18.44 | 3.6     | ng/ul | 342552   | 4                     | 17.60 | 1895570 | 20.0 |
| 4H-Cyclopenta[def... | 18.67 | 3.4     | ng/ul | 320532   | 4                     | 17.60 | 1895570 | 20.0 |
| unknown-02           | 18.96 | 2.3     | ng/ul | 218789   | 4                     | 17.60 | 1895570 | 20.0 |
| 9,10-Anthracenedione | 19.01 | 5.6     | ng/ul | 528293   | 4                     | 17.60 | 1895570 | 20.0 |
| Cyclopenta(def)ph... | 19.53 | 2.8     | ng/ul | 262386   | 4                     | 17.60 | 1895570 | 20.0 |
| 11H-Benzo[a]fluor... | 21.27 | 3.1     | ng/ul | 444027   | 5                     | 21.90 | 2897010 | 20.0 |
| 5-Bromo-4-oxo-4,5... | 23.36 | 42.7    | ng/ul | 6181500  | 5                     | 21.90 | 2897010 | 20.0 |