

Data Path : Z:\HPCHEM1\BNA G\DATA\BG043017\  
 Data File : BG026784.D  
 Acq On : 30 Apr 2017 22:16  
 Operator : SJ/MA  
 Sample : I2846-05  
 Misc :  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JHT50

## 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\SOM-EPA-BG042717.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      | 3.429    | 52         | 58       | 67        | rVB   | 48643       | 84761      | 1.59%        | 0.130%     |
| 2      | 3.793    | 119        | 120      | 128       | rBV7  | 4917        | 8698       | 0.16%        | 0.013%     |
| 3      | 4.187    | 182        | 187      | 193       | rVB2  | 19621       | 31075      | 0.58%        | 0.048%     |
| 4      | 4.839    | 294        | 298      | 303       | rBV5  | 3259        | 6662       | 0.12%        | 0.010%     |
| 5      | 5.556    | 416        | 420      | 425       | rVB5  | 3623        | 8852       | 0.17%        | 0.014%     |
| 6      | 6.208    | 527        | 531      | 538       | rBV8  | 5282        | 11279      | 0.21%        | 0.017%     |
| 7      | 7.183    | 690        | 697      | 715       | rBV   | 840306      | 1556302    | 29.16%       | 2.394%     |
| 8      | 7.330    | 716        | 722      | 734       | rVB   | 786612      | 1265712    | 23.71%       | 1.947%     |
| 9      | 7.424    | 736        | 738      | 748       | rVB6  | 7271        | 12088      | 0.23%        | 0.019%     |
| 10     | 7.547    | 748        | 759      | 774       | rBV   | 922438      | 1610623    | 30.17%       | 2.477%     |
| 11     | 8.006    | 830        | 837      | 853       | rVB   | 627958      | 1064824    | 19.95%       | 1.638%     |
| 12     | 8.241    | 873        | 877      | 881       | rVB5  | 4119        | 7149       | 0.13%        | 0.011%     |
| 13     | 8.723    | 950        | 959      | 981       | rBV   | 1195168     | 2201794    | 41.25%       | 3.386%     |
| 14     | 9.163    | 1024       | 1034     | 1048      | rBV   | 882877      | 1580117    | 29.60%       | 2.430%     |
| 15     | 9.328    | 1057       | 1062     | 1071      | rBV8  | 8863        | 24992      | 0.47%        | 0.038%     |
| 16     | 9.586    | 1101       | 1106     | 1110      | rVB4  | 4426        | 7503       | 0.14%        | 0.012%     |
| 17     | 9.886    | 1149       | 1157     | 1170      | rBV   | 746202      | 1352367    | 25.34%       | 2.080%     |
| 18     | 10.209   | 1207       | 1212     | 1220      | rBV7  | 2721        | 7422       | 0.14%        | 0.011%     |
| 19     | 10.438   | 1242       | 1251     | 1272      | rBV   | 1137683     | 2161674    | 40.50%       | 3.325%     |
| 20     | 10.808   | 1303       | 1314     | 1326      | rBV   | 1013145     | 1840242    | 34.48%       | 2.830%     |
| 21     | 10.938   | 1328       | 1336     | 1364      | rVB   | 1207219     | 2285437    | 42.82%       | 3.515%     |
| 22     | 11.408   | 1413       | 1416     | 1422      | rBV4  | 4569        | 7025       | 0.13%        | 0.011%     |
| 23     | 12.072   | 1525       | 1529     | 1534      | rVB4  | 4160        | 6825       | 0.13%        | 0.010%     |
| 24     | 12.295   | 1560       | 1567     | 1573      | rVB8  | 6247        | 14368      | 0.27%        | 0.022%     |
| 25     | 12.389   | 1577       | 1583     | 1590      | rVB2  | 22722       | 44001      | 0.82%        | 0.068%     |
| 26     | 13.229   | 1721       | 1726     | 1730      | rVB5  | 11808       | 18128      | 0.34%        | 0.028%     |
| 27     | 13.517   | 1769       | 1775     | 1782      | rBV8  | 5068        | 11326      | 0.21%        | 0.017%     |
| 28     | 14.022   | 1853       | 1861     | 1865      | rBV   | 2146186     | 3197859    | 59.91%       | 4.918%     |
| 29     | 14.069   | 1865       | 1869     | 1878      | rVB   | 437731      | 623761     | 11.69%       | 0.959%     |
| 30     | 14.316   | 1899       | 1911     | 1922      | rBV   | 2602731     | 4226363    | 79.18%       | 6.500%     |
| 31     | 14.392   | 1922       | 1924     | 1929      | rVV4  | 3741        | 7326       | 0.14%        | 0.011%     |
| 32     | 14.504   | 1937       | 1943     | 1949      | rVV4  | 12552       | 21586      | 0.40%        | 0.033%     |
| 33     | 14.621   | 1953       | 1963     | 1983      | rVB2  | 1580716     | 2566882    | 48.09%       | 3.948%     |
| 34     | 14.833   | 1991       | 1999     | 2030      | rBV   | 582189      | 1432412    | 26.84%       | 2.203%     |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |        |        |
|----|--------|------|------|------|-------|---------|---------|--------|--------|
| 35 | 15.121 | 2044 | 2048 | 2056 | rVV8  | 9040    | 16839   | 0.32%  | 0.026% |
| 36 | 15.191 | 2056 | 2060 | 2064 | rVB7  | 8065    | 12407   | 0.23%  | 0.019% |
| 37 | 15.244 | 2066 | 2069 | 2076 | rVB8  | 4827    | 7245    | 0.14%  | 0.011% |
| 38 | 15.409 | 2092 | 2097 | 2100 | rBV2  | 10847   | 17585   | 0.33%  | 0.027% |
| 39 | 15.456 | 2100 | 2105 | 2111 | rVB   | 61430   | 79109   | 1.48%  | 0.122% |
| 40 | 15.520 | 2111 | 2116 | 2120 | rVB6  | 6143    | 9670    | 0.18%  | 0.015% |
| 41 | 15.609 | 2120 | 2131 | 2143 | rBV   | 3267842 | 5111486 | 95.76% | 7.861% |
| 42 | 15.726 | 2143 | 2151 | 2164 | rBV   | 966531  | 1467525 | 27.49% | 2.257% |
| 43 | 15.844 | 2166 | 2171 | 2178 | rVV3  | 58945   | 108710  | 2.04%  | 0.167% |
| 44 | 15.902 | 2178 | 2181 | 2185 | rVB4  | 9476    | 10354   | 0.19%  | 0.016% |
| 45 | 15.955 | 2185 | 2190 | 2195 | rVB8  | 11323   | 18140   | 0.34%  | 0.028% |
| 46 | 16.002 | 2195 | 2198 | 2205 | rBV6  | 13439   | 21185   | 0.40%  | 0.033% |
| 47 | 16.073 | 2205 | 2210 | 2215 | rBV5  | 12395   | 16013   | 0.30%  | 0.025% |
| 48 | 16.308 | 2236 | 2250 | 2261 | rBV   | 102226  | 221648  | 4.15%  | 0.341% |
| 49 | 16.384 | 2261 | 2263 | 2273 | rVB   | 10749   | 21075   | 0.39%  | 0.032% |
| 50 | 16.490 | 2278 | 2281 | 2284 | rVB4  | 9886    | 13424   | 0.25%  | 0.021% |
| 51 | 16.525 | 2284 | 2287 | 2289 | rBV3  | 6224    | 6644    | 0.12%  | 0.010% |
| 52 | 16.560 | 2289 | 2293 | 2304 | rVB3  | 7562    | 16923   | 0.32%  | 0.026% |
| 53 | 16.654 | 2304 | 2309 | 2317 | rBV8  | 16061   | 44429   | 0.83%  | 0.068% |
| 54 | 16.713 | 2317 | 2319 | 2322 | rVB3  | 8728    | 9565    | 0.18%  | 0.015% |
| 55 | 16.766 | 2322 | 2328 | 2332 | rBV8  | 15094   | 28757   | 0.54%  | 0.044% |
| 56 | 16.813 | 2334 | 2336 | 2343 | rVB4  | 11871   | 14622   | 0.27%  | 0.022% |
| 57 | 16.884 | 2343 | 2348 | 2351 | rVV6  | 7905    | 12012   | 0.23%  | 0.018% |
| 58 | 16.919 | 2351 | 2354 | 2357 | rVV4  | 6280    | 6725    | 0.13%  | 0.010% |
| 59 | 16.954 | 2357 | 2360 | 2365 | rVB6  | 5558    | 7922    | 0.15%  | 0.012% |
| 60 | 17.101 | 2376 | 2385 | 2389 | rBV   | 68101   | 87788   | 1.64%  | 0.135% |
| 61 | 17.148 | 2389 | 2393 | 2406 | rVB5  | 27658   | 60595   | 1.14%  | 0.093% |
| 62 | 17.260 | 2406 | 2412 | 2418 | rBV5  | 8951    | 19517   | 0.37%  | 0.030% |
| 63 | 17.354 | 2418 | 2428 | 2438 | rBV2  | 1794170 | 2726876 | 51.09% | 4.194% |
| 64 | 17.453 | 2438 | 2445 | 2455 | rVV2  | 3293713 | 5026488 | 94.17% | 7.731% |
| 65 | 17.747 | 2490 | 2495 | 2500 | rVB7  | 4889    | 9526    | 0.18%  | 0.015% |
| 66 | 17.835 | 2507 | 2510 | 2516 | rBV2  | 20985   | 23774   | 0.45%  | 0.037% |
| 67 | 18.012 | 2535 | 2540 | 2544 | rVB8  | 5819    | 10927   | 0.20%  | 0.017% |
| 68 | 18.117 | 2551 | 2558 | 2562 | rBV3  | 92303   | 204117  | 3.82%  | 0.314% |
| 69 | 18.164 | 2563 | 2566 | 2573 | rVV2  | 55421   | 110874  | 2.08%  | 0.171% |
| 70 | 18.235 | 2573 | 2578 | 2594 | rVV   | 536398  | 855428  | 16.03% | 1.316% |
| 71 | 18.529 | 2622 | 2628 | 2633 | rBV10 | 14296   | 28183   | 0.53%  | 0.043% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 18.652 | 2645 | 2649 | 2652 | rBV6 | 7492    | 12303   | 0.23%   | 0.019% |
| 73  | 18.899 | 2689 | 2691 | 2698 | rVB8 | 6596    | 10918   | 0.20%   | 0.017% |
| 74  | 19.022 | 2710 | 2712 | 2719 | rVV8 | 3571    | 8052    | 0.15%   | 0.012% |
| 75  | 19.122 | 2726 | 2729 | 2731 | rBV4 | 6330    | 8853    | 0.17%   | 0.014% |
| 76  | 19.151 | 2731 | 2734 | 2738 | rVB5 | 8306    | 10320   | 0.19%   | 0.016% |
| 77  | 19.198 | 2738 | 2742 | 2747 | rBV7 | 14461   | 20096   | 0.38%   | 0.031% |
| 78  | 19.298 | 2757 | 2759 | 2764 | rBV6 | 8203    | 8814    | 0.17%   | 0.014% |
| 79  | 19.375 | 2766 | 2772 | 2781 | rBV2 | 59967   | 146581  | 2.75%   | 0.225% |
| 80  | 19.498 | 2788 | 2793 | 2808 | rBV  | 240948  | 432654  | 8.11%   | 0.665% |
| 81  | 19.621 | 2810 | 2814 | 2824 | rVB2 | 46479   | 88351   | 1.66%   | 0.136% |
| 82  | 19.733 | 2824 | 2833 | 2845 | rBV  | 3556484 | 5325446 | 99.77%  | 8.190% |
| 83  | 19.998 | 2876 | 2878 | 2881 | rVB4 | 5493    | 6288    | 0.12%   | 0.010% |
| 84  | 20.567 | 2972 | 2975 | 2980 | rBV7 | 18617   | 27776   | 0.52%   | 0.043% |
| 85  | 20.738 | 3000 | 3004 | 3010 | rVB8 | 16581   | 25046   | 0.47%   | 0.039% |
| 86  | 21.155 | 3071 | 3075 | 3080 | rBV6 | 13928   | 30434   | 0.57%   | 0.047% |
| 87  | 21.402 | 3106 | 3117 | 3118 | rBV6 | 33582   | 82911   | 1.55%   | 0.128% |
| 88  | 21.596 | 3142 | 3150 | 3161 | rBV  | 1698599 | 2830625 | 53.03%  | 4.353% |
| 89  | 21.737 | 3171 | 3174 | 3176 | rBV3 | 12014   | 13259   | 0.25%   | 0.020% |
| 90  | 22.365 | 3276 | 3281 | 3284 | rBV7 | 27953   | 49864   | 0.93%   | 0.077% |
| 91  | 22.418 | 3286 | 3290 | 3299 | rVB7 | 16509   | 41419   | 0.78%   | 0.064% |
| 92  | 23.035 | 3390 | 3395 | 3402 | rVB3 | 56233   | 113029  | 2.12%   | 0.174% |
| 93  | 23.229 | 3422 | 3428 | 3434 | rBV2 | 49716   | 89758   | 1.68%   | 0.138% |
| 94  | 23.822 | 3522 | 3529 | 3536 | rBV4 | 69988   | 152523  | 2.86%   | 0.235% |
| 95  | 24.545 | 3639 | 3652 | 3670 | rBV2 | 1934927 | 5337809 | 100.00% | 8.209% |
| 96  | 24.757 | 3677 | 3688 | 3707 | rVB2 | 1112155 | 3194414 | 59.85%  | 4.913% |
| 97  | 25.844 | 3863 | 3873 | 3883 | rBV4 | 94762   | 293333  | 5.50%   | 0.451% |
| 98  | 27.160 | 4086 | 4097 | 4108 | rBV3 | 95303   | 316413  | 5.93%   | 0.487% |
| 99  | 28.740 | 4355 | 4366 | 4379 | rVB5 | 62795   | 249337  | 4.67%   | 0.383% |
| 100 | 30.661 | 4681 | 4693 | 4710 | rVB6 | 68059   | 322116  | 6.03%   | 0.495% |

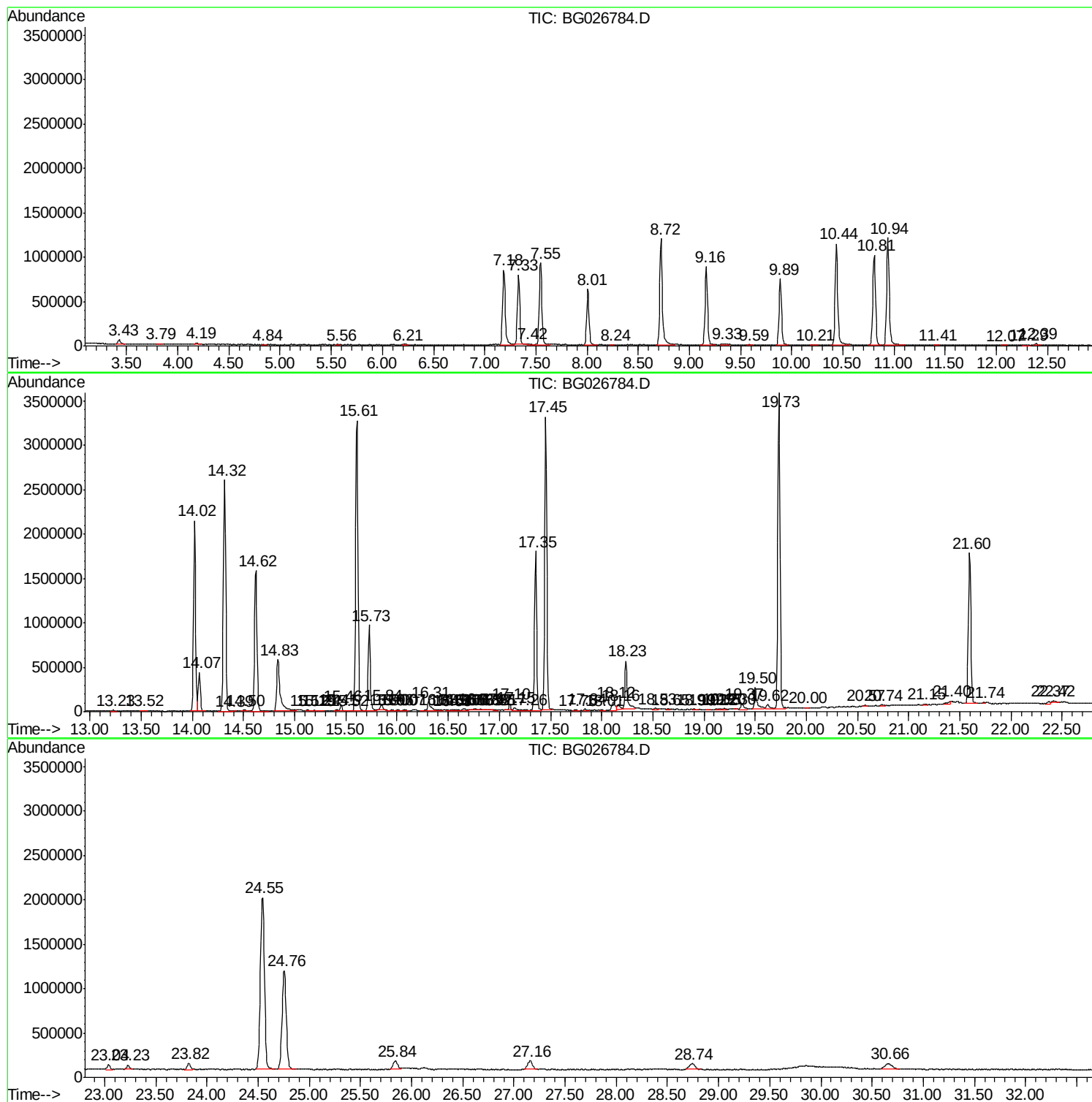
Sum of corrected areas: 65020284

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
Quant Title : SVOA CALIBRATION

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



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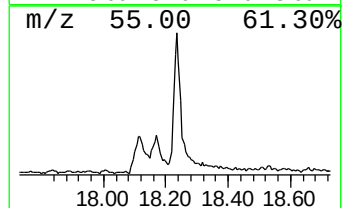
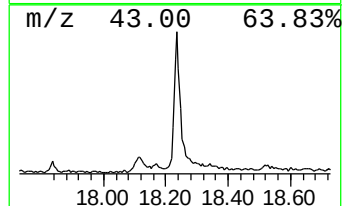
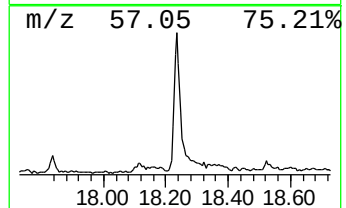
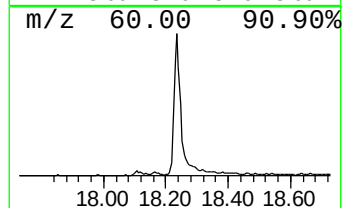
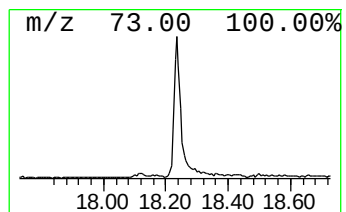
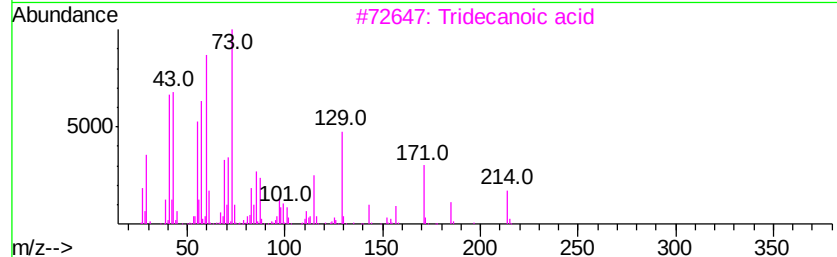
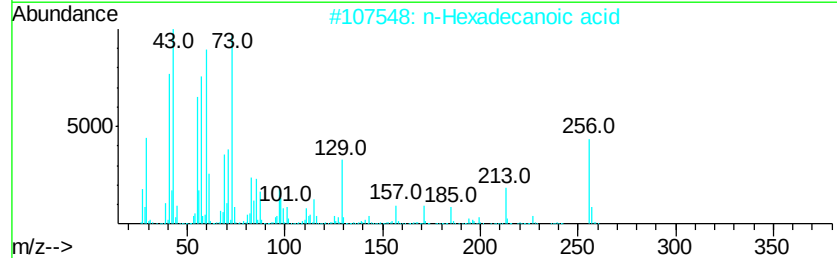
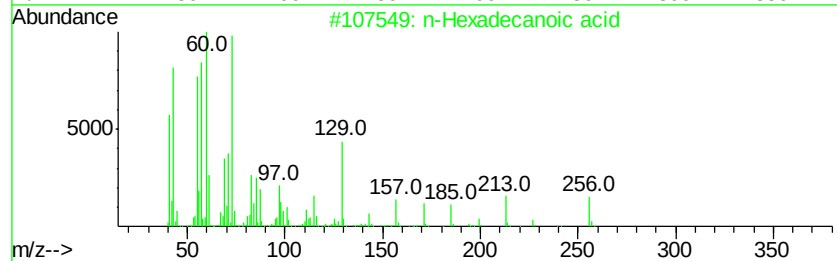
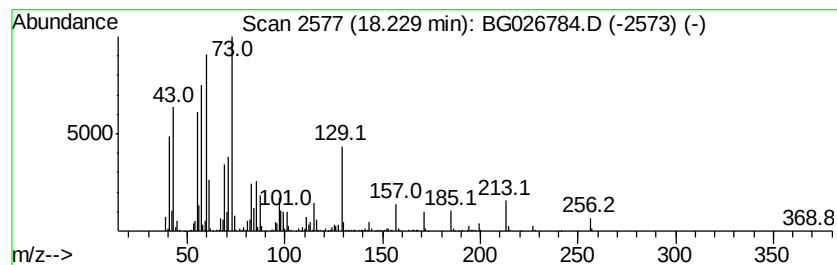
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 1

| R.T.    | EstConc    | Area                | Relative to ISTD | R.T.     |             |      |
|---------|------------|---------------------|------------------|----------|-------------|------|
| 18.23   | 6.27 ng/ul | 855428              | Phenanthrene-d10 | 17.35    |             |      |
| Hit# of | 5          | Tentative ID        | MW               | MolForm  | CAS#        | Qual |
| 1       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 99   |
| 2       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 96   |
| 3       |            | Tridecanoic acid    | 214              | C13H26O2 | 000638-53-9 | 93   |
| 4       |            | n-Hexadecanoic acid | 256              | C16H32O2 | 000057-10-3 | 93   |
| 5       |            | Tetradecanoic acid  | 228              | C14H28O2 | 000544-63-8 | 91   |



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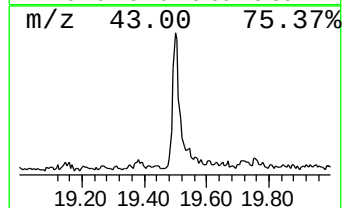
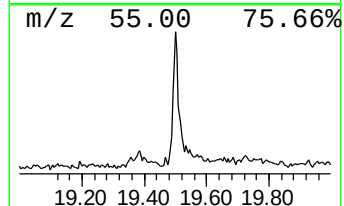
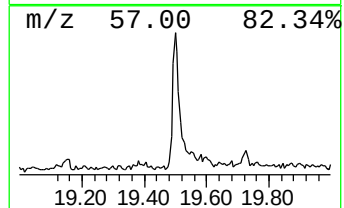
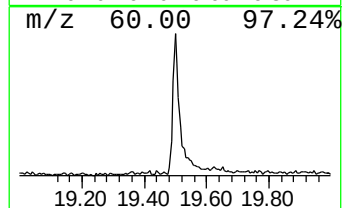
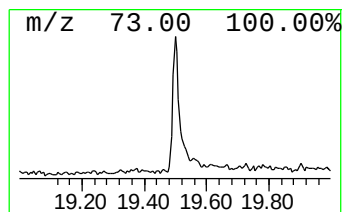
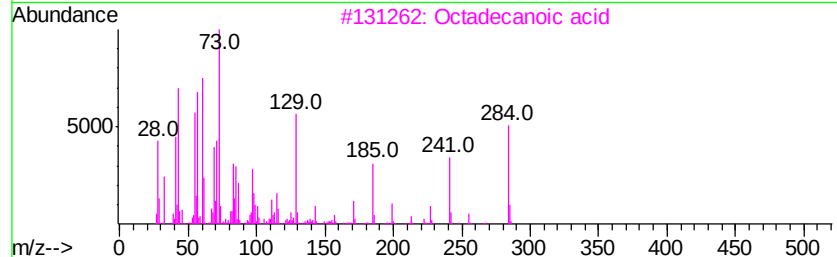
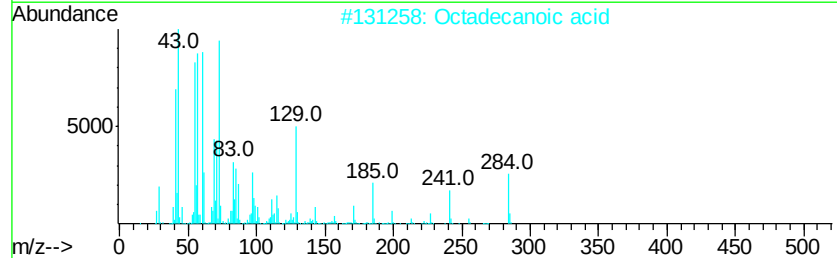
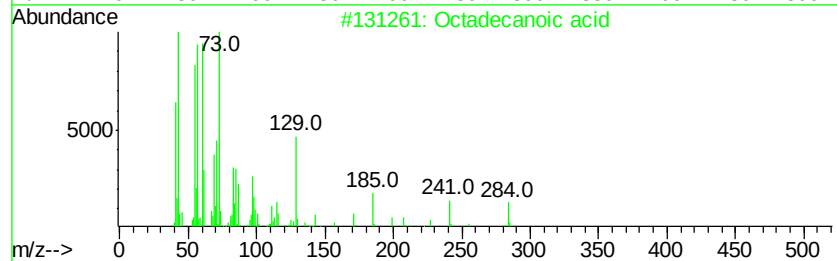
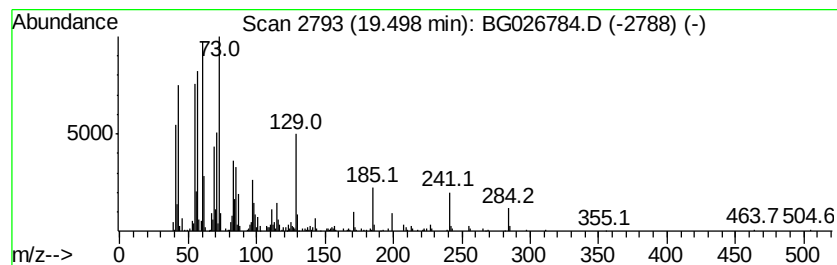
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Octadecanoic acid Concentration Rank 2

| R.T.    | EstConc            | Area         | Relative to ISTD | R.T.           |
|---------|--------------------|--------------|------------------|----------------|
| 19.50   | 3.06 ng/ul         | 432654       | Chrysene-d12     | 21.60          |
| Hit# of | 5                  | Tentative ID | MW MolForm       | CAS# Qual      |
| 1       | Octadecanoic acid  | 284          | C18H36O2         | 000057-11-4 99 |
| 2       | Octadecanoic acid  | 284          | C18H36O2         | 000057-11-4 99 |
| 3       | Octadecanoic acid  | 284          | C18H36O2         | 000057-11-4 99 |
| 4       | Octadecanoic acid  | 284          | C18H36O2         | 000057-11-4 93 |
| 5       | Pentadecanoic acid | 242          | C15H30O2         | 001002-84-2 89 |



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Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JHT50

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG042717.M  
Quant Title : SVOA CALIBRATION

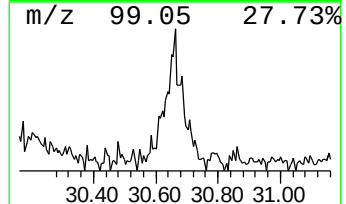
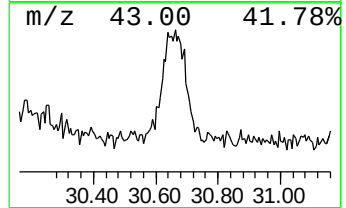
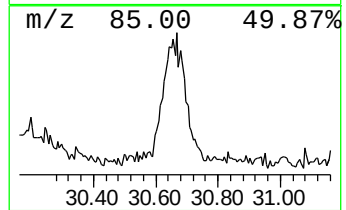
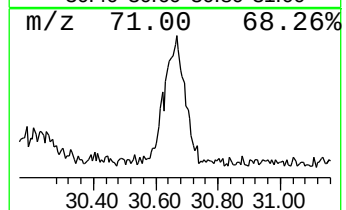
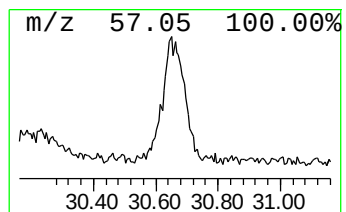
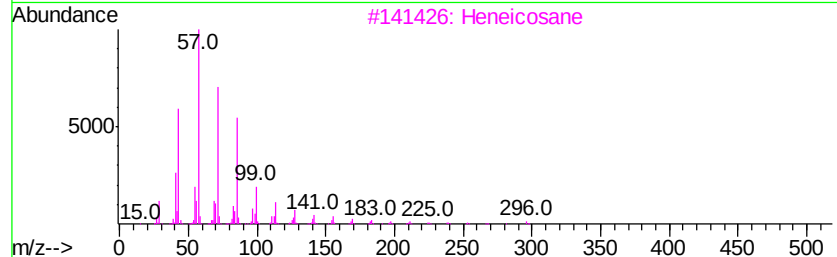
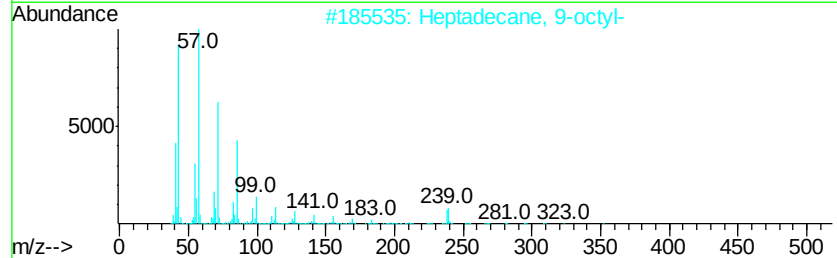
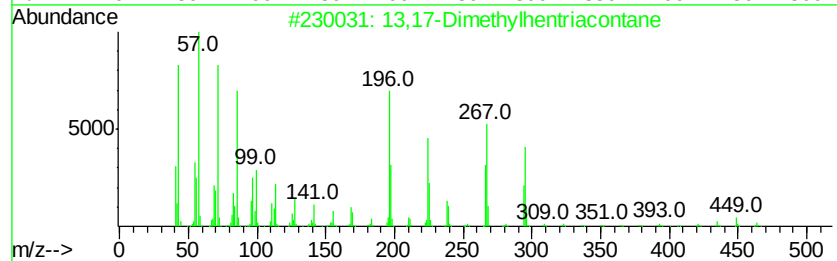
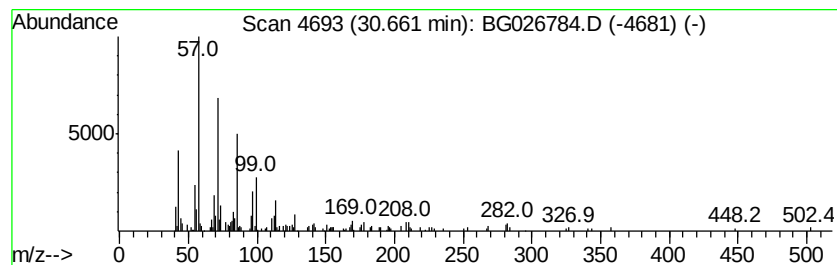
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 30.66 | 2.02 ng/ul | 322116 | Perylene-d12     | 24.76 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | 13,17-Dimethylhentriacontane | 465 | C33H68  | 056987-75-8 | 72   |
| 2    |    | Heptadecane, 9-octyl-        | 352 | C25H52  | 007225-64-1 | 52   |
| 3    |    | Heneicosane                  | 296 | C21H44  | 000629-94-7 | 52   |
| 4    |    | Docosane, 11-butyl-          | 366 | C26H54  | 013475-76-8 | 52   |
| 5    |    | Eicosane                     | 282 | C20H42  | 000112-95-8 | 52   |



Data Path : Z:\HPCHEM1\BNA\_G\DATA\BG043017\  
Data File : BG026784.D  
Acq On : 30 Apr 2017 22:16  
Operator : SJ/MA  
Sample : I2846-05  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JHT50

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM-EPA-BG042717.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 |
| n-Hexadecanoic acid  | 18.23 | 6.3     | ng/ul | 855428   | 4                     | 17.35 | 2726880 | 20.0 |
| Octadecanoic acid    | 19.50 | 3.1     | ng/ul | 432654   | 5                     | 21.60 | 2830630 | 20.0 |
| (DEL) Alkane: Str... | 30.66 | 2.0     | ng/ul | 322116   | 6                     | 24.76 | 3194410 | 20.0 |