

Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM071615\  
 Data File : BM001965.D  
 Acq On : 17 Jul 2015 02:34  
 Operator : TP/UM  
 Sample : G2998-16  
 Misc :  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 C02F8

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 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: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.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         | 2.793       | 13            | 18          | 27           | rVV2     | 28798          | 56599         | 2.27%           | 0.206%        |
| 2         | 2.869       | 27            | 31          | 48           | rVB      | 433780         | 564031        | 22.65%          | 2.055%        |
| 3         | 3.134       | 71            | 76          | 84           | rVB2     | 21758          | 28648         | 1.15%           | 0.104%        |
| 4         | 3.398       | 117           | 121         | 130          | rBV2     | 9224           | 13993         | 0.56%           | 0.051%        |
| 5         | 3.681       | 165           | 169         | 175          | rVB2     | 6551           | 8805          | 0.35%           | 0.032%        |
| 6         | 4.775       | 349           | 355         | 360          | rVB2     | 10512          | 20060         | 0.81%           | 0.073%        |
| 7         | 6.822       | 696           | 703         | 712          | rBV      | 449401         | 693965        | 27.86%          | 2.528%        |
| 8         | 6.992       | 725           | 732         | 739          | rBB      | 330918         | 510410        | 20.49%          | 1.859%        |
| 9         | 7.181       | 758           | 764         | 772          | rBB      | 467278         | 713724        | 28.66%          | 2.600%        |
| 10        | 7.245       | 773           | 775         | 780          | rBB2     | 1742           | 2638          | 0.11%           | 0.010%        |
| 11        | 7.651       | 838           | 844         | 852          | rBB      | 319282         | 497775        | 19.99%          | 1.813%        |
| 12        | 8.357       | 957           | 964         | 974          | rBV      | 607379         | 926241        | 37.19%          | 3.374%        |
| 13        | 8.810       | 1034          | 1041        | 1049         | rBB      | 436805         | 688461        | 27.64%          | 2.508%        |
| 14        | 8.928       | 1056          | 1061        | 1068         | rBB      | 12983          | 20297         | 0.81%           | 0.074%        |
| 15        | 9.527       | 1156          | 1163        | 1170         | rBV      | 393163         | 636768        | 25.57%          | 2.320%        |
| 16        | 10.063      | 1247          | 1254        | 1262         | rVB      | 583505         | 979969        | 39.34%          | 3.570%        |
| 17        | 10.439      | 1311          | 1318        | 1326         | rBB      | 446457         | 739810        | 29.70%          | 2.695%        |
| 18        | 10.580      | 1335          | 1342        | 1358         | rBV      | 532754         | 920303        | 36.95%          | 3.353%        |
| 19        | 12.645      | 1689          | 1693        | 1697         | rVB      | 4686           | 5504          | 0.22%           | 0.020%        |
| 20        | 12.898      | 1733          | 1736        | 1741         | rVB      | 7651           | 9630          | 0.39%           | 0.035%        |
| 21        | 13.721      | 1869          | 1876        | 1880         | rBV      | 1030138        | 1414965       | 56.81%          | 5.155%        |
| 22        | 13.768      | 1880          | 1884        | 1890         | rVB      | 506127         | 677665        | 27.21%          | 2.469%        |
| 23        | 13.998      | 1916          | 1923        | 1932         | rBV      | 1189113        | 1661326       | 66.70%          | 6.052%        |
| 24        | 14.204      | 1953          | 1958        | 1962         | rBV2     | 5327           | 6799          | 0.27%           | 0.025%        |
| 25        | 14.310      | 1969          | 1976        | 1983         | rVB2     | 686066         | 1041174       | 41.80%          | 3.793%        |
| 26        | 14.515      | 2004          | 2011        | 2023         | rBV      | 454563         | 668239        | 26.83%          | 2.434%        |
| 27        | 15.104      | 2107          | 2111        | 2116         | rBV      | 10560          | 14803         | 0.59%           | 0.054%        |
| 28        | 15.157      | 2116          | 2120        | 2124         | rVB      | 14190          | 17144         | 0.69%           | 0.062%        |
| 29        | 15.304      | 2138          | 2145        | 2152         | rBV      | 1486338        | 2046417       | 82.16%          | 7.455%        |
| 30        | 15.427      | 2160          | 2166        | 2176         | rBV      | 283889         | 379032        | 15.22%          | 1.381%        |
| 31        | 15.545      | 2181          | 2186        | 2193         | rBV4     | 7090           | 16065         | 0.64%           | 0.059%        |
| 32        | 16.021      | 2262          | 2267        | 2276         | rBV      | 19105          | 35474         | 1.42%           | 0.129%        |
| 33        | 16.362      | 2322          | 2325        | 2330         | rBV3     | 2038           | 3382          | 0.14%           | 0.012%        |
| 34        | 16.521      | 2349          | 2352        | 2355         | rBV3     | 2168           | 2599          | 0.10%           | 0.009%        |

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 Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |       |         |         |         |        |
|----|--------|------|------|------|-------|---------|---------|---------|--------|
| 35 | 16.809 | 2397 | 2401 | 2405 | rBV   | 19569   | 25247   | 1.01%   | 0.092% |
| 36 | 16.862 | 2405 | 2410 | 2414 | rVB3  | 6922    | 12391   | 0.50%   | 0.045% |
| 37 | 17.056 | 2437 | 2443 | 2449 | rBV2  | 916995  | 1258001 | 50.51%  | 4.583% |
| 38 | 17.156 | 2453 | 2460 | 2469 | rVB   | 1552453 | 2209803 | 88.72%  | 8.050% |
| 39 | 17.251 | 2469 | 2476 | 2479 | rBV7  | 5299    | 8405    | 0.34%   | 0.031% |
| 40 | 17.468 | 2509 | 2513 | 2520 | rVB4  | 5252    | 9021    | 0.36%   | 0.033% |
| 41 | 17.545 | 2522 | 2526 | 2532 | rBV   | 19376   | 23655   | 0.95%   | 0.086% |
| 42 | 17.645 | 2541 | 2543 | 2551 | rVB3  | 1709    | 2921    | 0.12%   | 0.011% |
| 43 | 17.721 | 2552 | 2556 | 2561 | rVB3  | 2482    | 4106    | 0.16%   | 0.015% |
| 44 | 17.821 | 2571 | 2573 | 2577 | rBV4  | 2681    | 4336    | 0.17%   | 0.016% |
| 45 | 17.945 | 2588 | 2594 | 2601 | rBV   | 104965  | 144226  | 5.79%   | 0.525% |
| 46 | 18.021 | 2604 | 2607 | 2609 | rVB2  | 2227    | 3183    | 0.13%   | 0.012% |
| 47 | 18.245 | 2640 | 2645 | 2650 | rBV3  | 8792    | 12119   | 0.49%   | 0.044% |
| 48 | 18.380 | 2664 | 2668 | 2671 | rVB3  | 4535    | 6248    | 0.25%   | 0.023% |
| 49 | 18.821 | 2739 | 2743 | 2745 | rBV2  | 2113    | 3125    | 0.13%   | 0.011% |
| 50 | 18.874 | 2749 | 2752 | 2759 | rBV3  | 4049    | 7772    | 0.31%   | 0.028% |
| 51 | 19.121 | 2787 | 2794 | 2799 | rVB   | 12276   | 19693   | 0.79%   | 0.072% |
| 52 | 19.233 | 2809 | 2813 | 2817 | rBV   | 21463   | 25815   | 1.04%   | 0.094% |
| 53 | 19.339 | 2827 | 2831 | 2836 | rVB   | 11873   | 14763   | 0.59%   | 0.054% |
| 54 | 19.386 | 2836 | 2839 | 2845 | rVB4  | 5579    | 7983    | 0.32%   | 0.029% |
| 55 | 19.456 | 2845 | 2851 | 2862 | rBV   | 1826246 | 2490742 | 100.00% | 9.073% |
| 56 | 19.697 | 2887 | 2892 | 2895 | rBV6  | 2296    | 3360    | 0.13%   | 0.012% |
| 57 | 19.862 | 2917 | 2920 | 2921 | rBV4  | 2808    | 2765    | 0.11%   | 0.010% |
| 58 | 19.968 | 2936 | 2938 | 2940 | rVV2  | 3500    | 4105    | 0.16%   | 0.015% |
| 59 | 19.997 | 2940 | 2943 | 2947 | rVB4  | 5467    | 7082    | 0.28%   | 0.026% |
| 60 | 20.327 | 2996 | 2999 | 3001 | rBV3  | 2369    | 2919    | 0.12%   | 0.011% |
| 61 | 20.380 | 3004 | 3008 | 3013 | rVB4  | 9068    | 11293   | 0.45%   | 0.041% |
| 62 | 20.433 | 3015 | 3017 | 3020 | rVB3  | 5518    | 4546    | 0.18%   | 0.017% |
| 63 | 20.497 | 3023 | 3028 | 3030 | rBV5  | 4854    | 6819    | 0.27%   | 0.025% |
| 64 | 20.697 | 3059 | 3062 | 3065 | rBV3  | 2765    | 3620    | 0.15%   | 0.013% |
| 65 | 20.962 | 3102 | 3107 | 3117 | rVV2  | 102758  | 192661  | 7.74%   | 0.702% |
| 66 | 21.044 | 3118 | 3121 | 3125 | rVB   | 13558   | 16735   | 0.67%   | 0.061% |
| 67 | 21.162 | 3137 | 3141 | 3145 | rVB   | 16355   | 18751   | 0.75%   | 0.068% |
| 68 | 21.250 | 3150 | 3156 | 3161 | rBV   | 1061953 | 1385291 | 55.62%  | 5.046% |
| 69 | 21.356 | 3172 | 3174 | 3178 | rBV5  | 6537    | 8532    | 0.34%   | 0.031% |
| 70 | 21.821 | 3251 | 3253 | 3255 | rBV2  | 5465    | 5196    | 0.21%   | 0.019% |
| 71 | 21.850 | 3255 | 3258 | 3268 | rVB10 | 7881    | 19413   | 0.78%   | 0.071% |

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Start Thrs: 0.2  
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Max Peaks: 100  
Peak Location: TOP

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Peak separation: 5

Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 22.403 | 3348 | 3352 | 3357 | rBV3 | 21241   | 32960   | 1.32%  | 0.120% |
| 73 | 22.509 | 3368 | 3370 | 3373 | rVB3 | 5748    | 3636    | 0.15%  | 0.013% |
| 74 | 22.733 | 3405 | 3408 | 3412 | rBV4 | 11226   | 16642   | 0.67%  | 0.061% |
| 75 | 23.332 | 3502 | 3510 | 3520 | rVB2 | 1009587 | 1874991 | 75.28% | 6.830% |
| 76 | 23.468 | 3526 | 3533 | 3543 | rVB  | 604431  | 1097746 | 44.07% | 3.999% |
| 77 | 23.962 | 3615 | 3617 | 3618 | rBV2 | 6547    | 4798    | 0.19%  | 0.017% |
| 78 | 24.068 | 3633 | 3635 | 3637 | rBV3 | 7440    | 7378    | 0.30%  | 0.027% |
| 79 | 27.785 | 4259 | 4267 | 4281 | rVB4 | 116759  | 403483  | 16.20% | 1.470% |

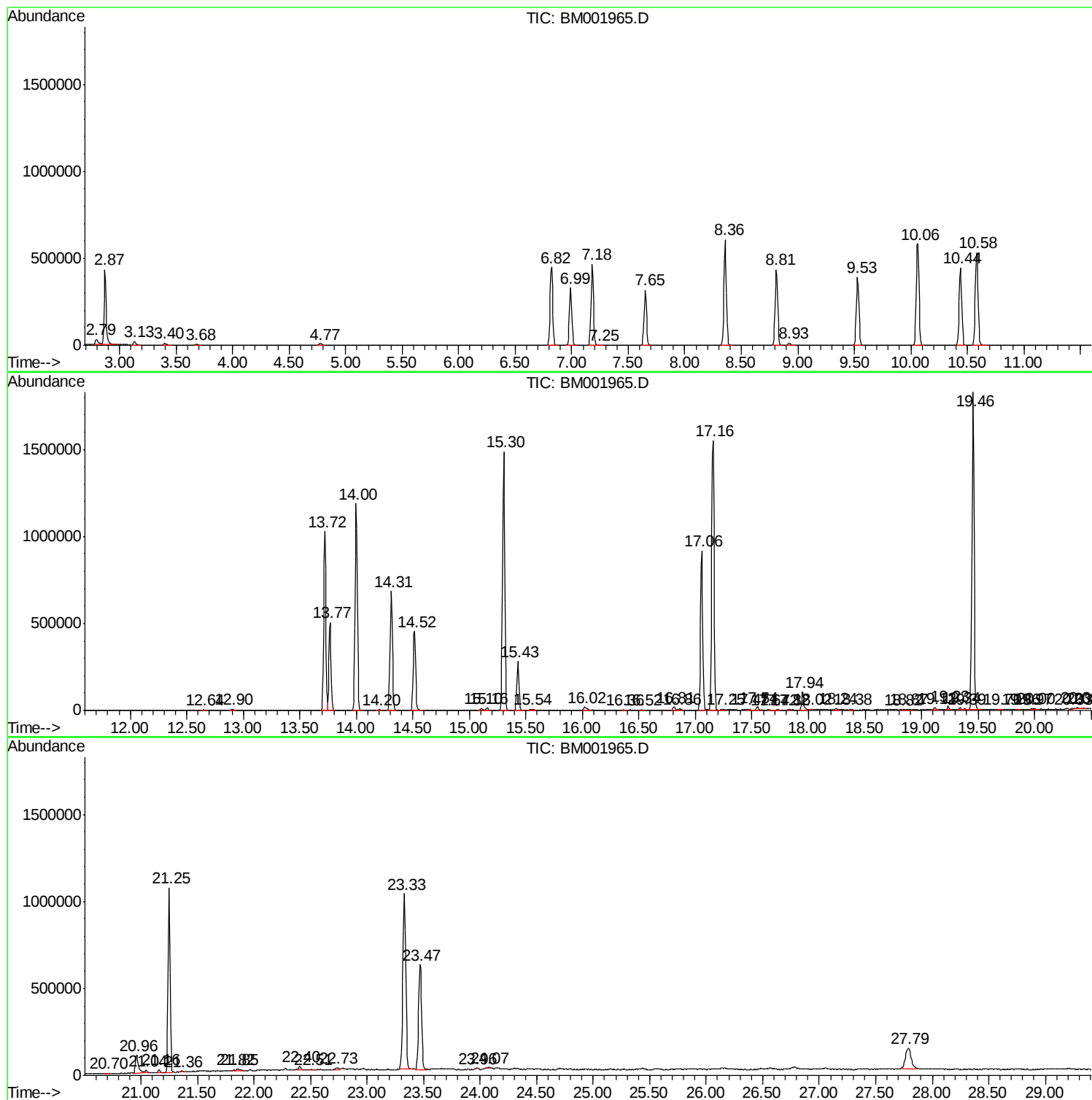
Sum of corrected areas: 27450992

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ClientSampled :  
C02F8

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA CALIBRATION

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



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Instrument :  
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Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA CALIBRATION

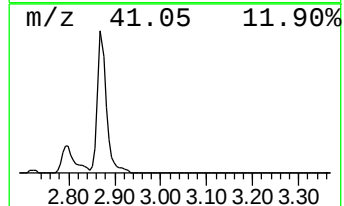
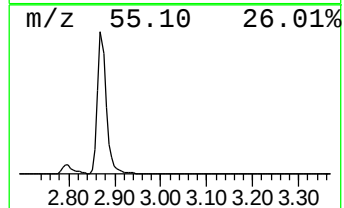
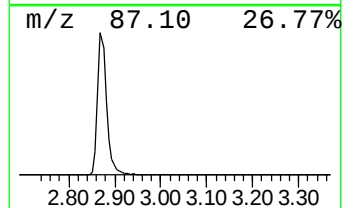
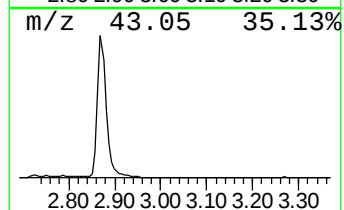
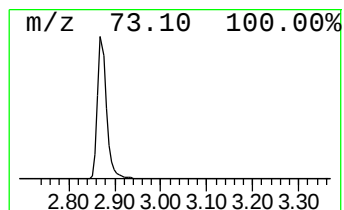
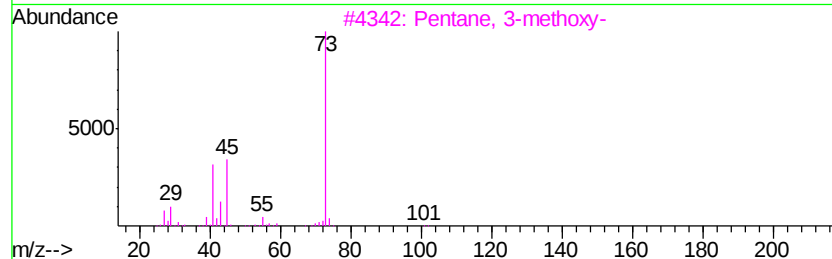
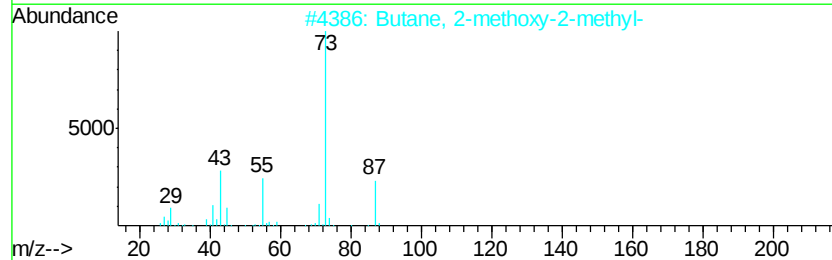
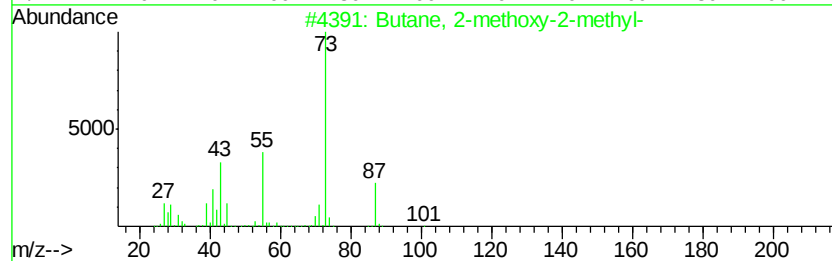
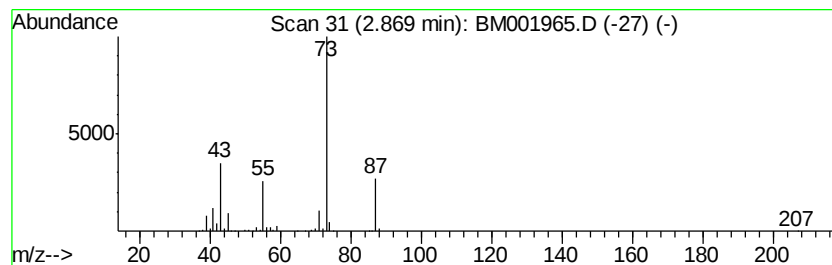
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Butane, 2-methoxy-2-methyl- Concentration Rank 1

| R.T. | EstConc     | Area   | Relative to ISTD       | R.T. |
|------|-------------|--------|------------------------|------|
| 2.87 | 22.66 ng/ul | 564031 | 1,4-Dichlorobenzene-d4 | 7.65 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 83   |
| 2    |    | Butane, 2-methoxy-2-methyl- | 102 | C6H14O  | 000994-05-8 | 78   |
| 3    |    | Pentane, 3-methoxy-         | 102 | C6H14O  | 036839-67-5 | 23   |
| 4    |    | Acetamide, N-ethyl-         | 87  | C4H9NO  | 000625-50-3 | 22   |
| 5    |    | Silane, tetramethyl-        | 88  | C4H12Si | 000075-76-3 | 17   |



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Quant Title : SVOA CALIBRATION

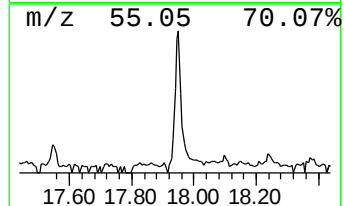
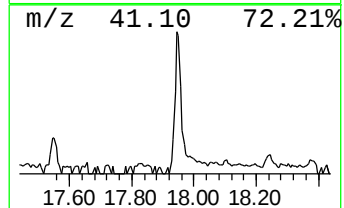
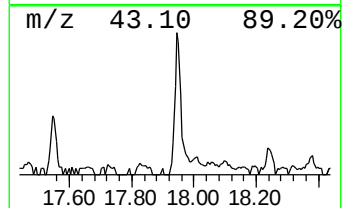
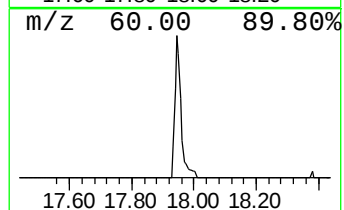
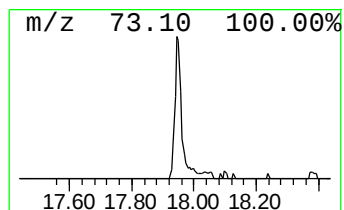
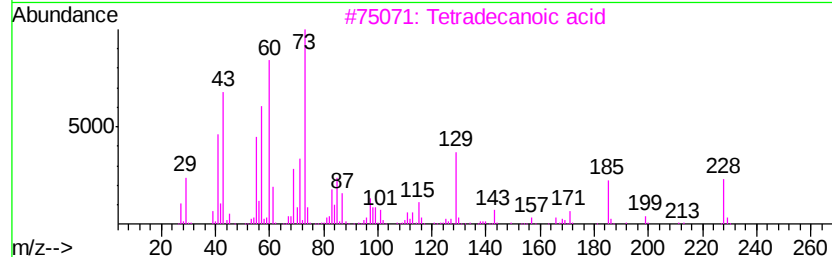
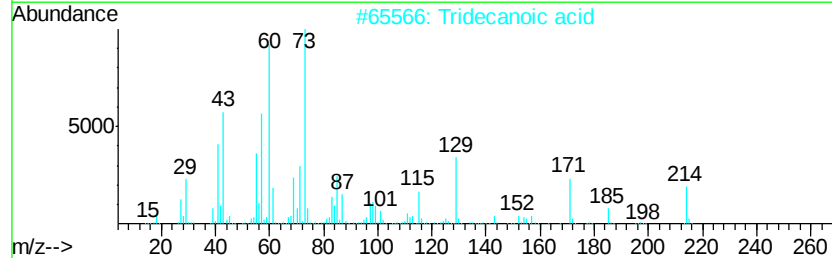
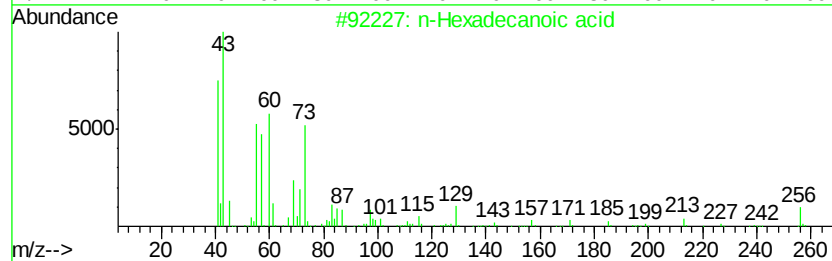
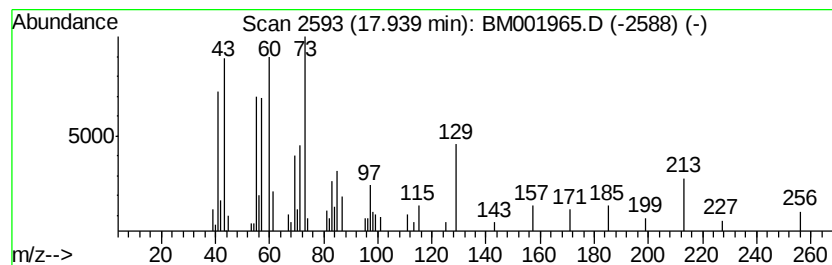
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 n-Hexadecanoic acid Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 17.94 | 2.29 ng/ul | 144226 | Phenanthrene-d10 | 17.06 |

| Hit# | of | Tentative ID        | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------|-----|----------|-------------|------|
| 1    | 5  | n-Hexadecanoic acid | 256 | C16H32O2 | 000057-10-3 | 96   |
| 2    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 76   |
| 3    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 72   |
| 4    |    | Tridecanoic acid    | 214 | C13H26O2 | 000638-53-9 | 58   |
| 5    |    | Tetradecanoic acid  | 228 | C14H28O2 | 000544-63-8 | 52   |



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Quant Title : SVOA CALIBRATION

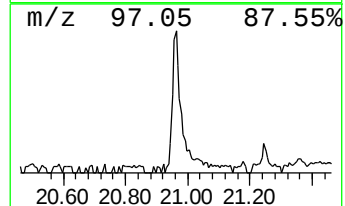
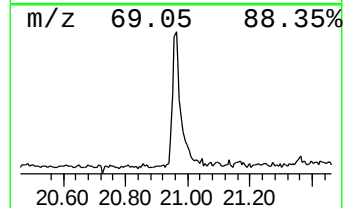
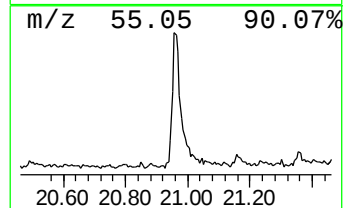
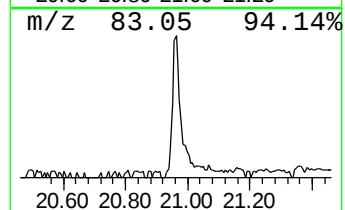
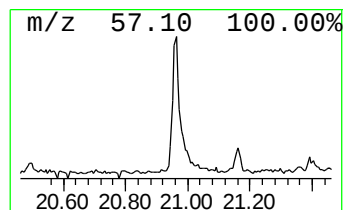
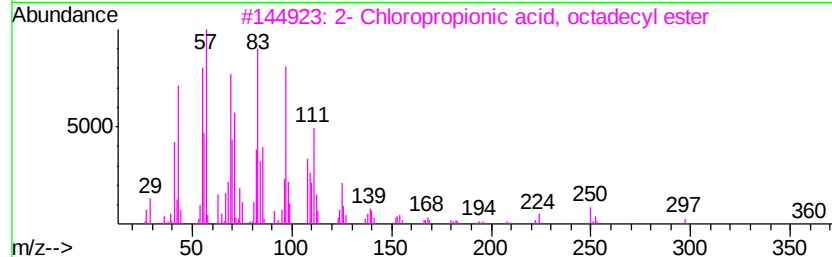
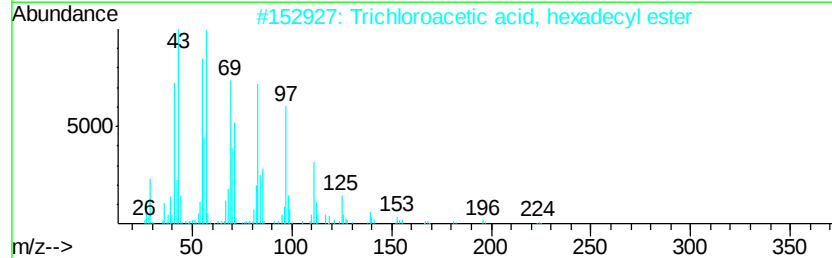
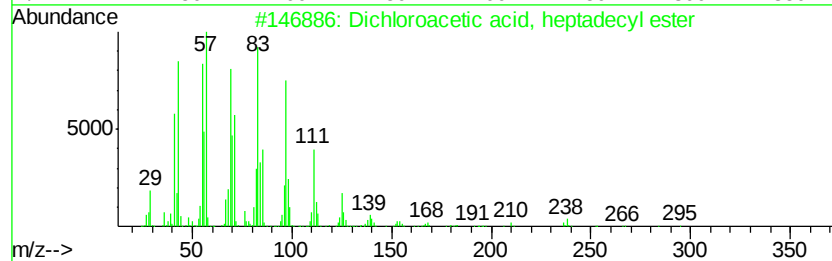
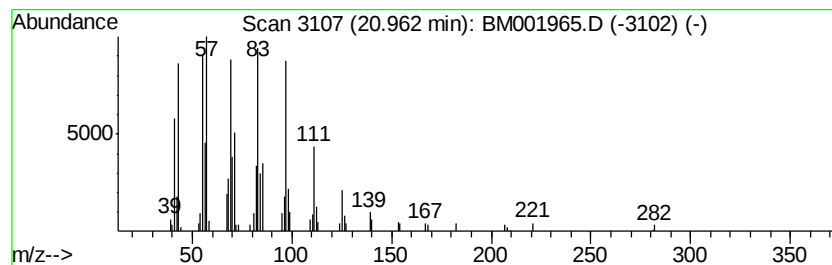
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 Dichloroacetic acid, heptad... Concentration Rank 3

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 20.96 | 2.78 ng/ul | 192661 | Chrysene-d12     | 21.25 |

| Hit# | of | Tentative ID                        | MW  | MolForm     | CAS#         | Qual |
|------|----|-------------------------------------|-----|-------------|--------------|------|
| 1    | 5  | Dichloroacetic acid, heptadecyl ... | 366 | C19H36Cl2O2 | 1000282-98-2 | 95   |
| 2    |    | Trichloroacetic acid, hexadecyl ... | 386 | C18H33Cl3O2 | 074339-54-1  | 94   |
| 3    |    | 2- Chloropropionic acid, octadec... | 360 | C21H41ClO2  | 088104-31-8  | 94   |
| 4    |    | Pentafluoropropionic acid, hepta... | 402 | C20H35F5O2  | 1000283-04-2 | 93   |
| 5    |    | Heptafluorobutyric acid, n-octad... | 466 | C22H37F7O2  | 000400-57-7  | 91   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM071615\  
Data File : BM001965.D  
Acq On : 17 Jul 2015 02:34  
Operator : TP/UM  
Sample : G2998-16  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02F8

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA CALIBRATION

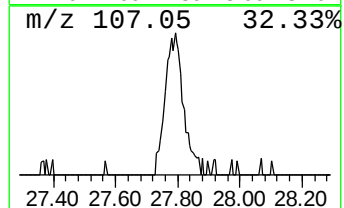
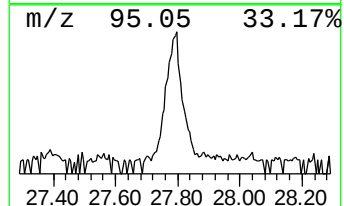
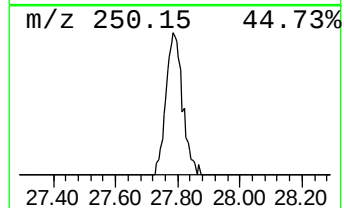
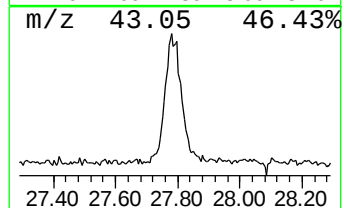
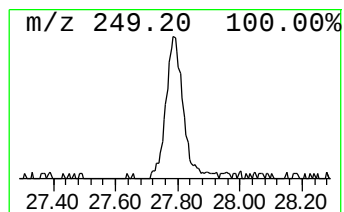
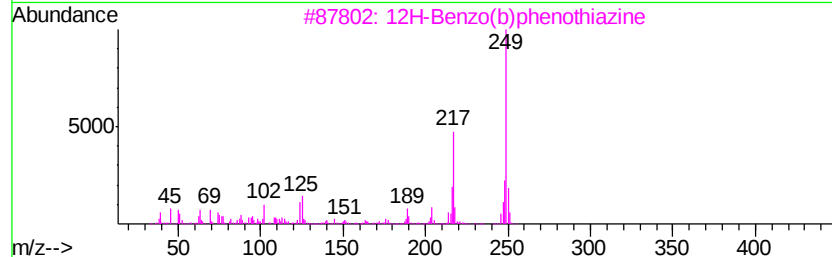
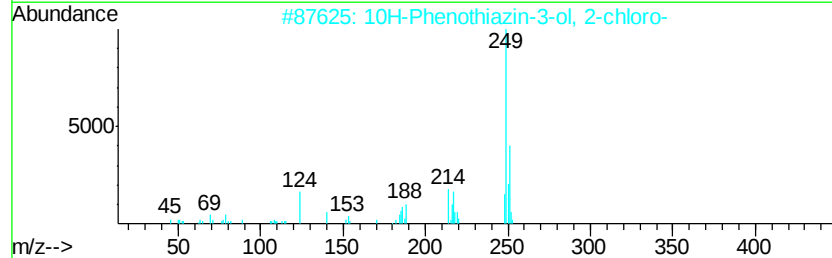
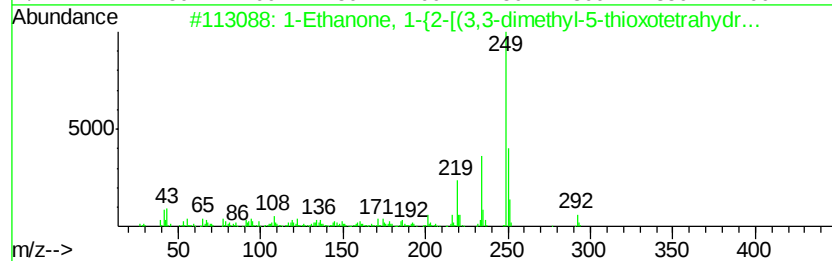
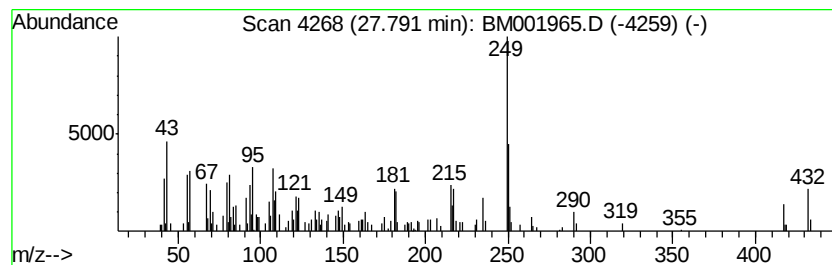
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 1-Ethanone, 1-{2-[(3,3-dime... Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 27.79 | 7.35 ng/ul | 403483 | Perylene-d12     | 23.47 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#        | Qual |
|------|----|-------------------------------------|-----|------------|-------------|------|
| 1    | 5  | 1-Ethanone, 1-{2-[(3,3-dimethyl-... | 292 | C16H24N2OS | 077109-20-7 | 53   |
| 2    |    | 10H-Phenothiazin-3-ol, 2-chloro-    | 249 | C12H8ClNOS | 016770-99-3 | 46   |
| 3    |    | 12H-Benzo(b)phenothiazine           | 249 | C16H11NS   | 000258-08-2 | 43   |
| 4    |    | 10H-Phenothiazin-3-ol, 2-chloro-    | 249 | C12H8ClNOS | 016770-99-3 | 43   |
| 5    |    | 12H-Benzo[a]phenothiazine           | 249 | C16H11NS   | 000225-83-2 | 43   |



Data Path : Z:\HPCHEM1\BNA\_M\DATA\BM071615\  
Data File : BM001965.D  
Acq On : 17 Jul 2015 02:34  
Operator : TP/UM  
Sample : G2998-16  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
C02F8

Quant Method : Z:\HPCHEM1\BNA\_M\METHODS\SOM02.2-EPA-BM071315.M  
Quant Title : SVOA 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 |
| Butane, 2-methoxy... | 2.87  | 22.7    | ng/ul | 564031   | 1                     | 7.65  | 497775  | 20.0 |
| n-Hexadecanoic acid  | 17.94 | 2.3     | ng/ul | 144226   | 4                     | 17.06 | 1258000 | 20.0 |
| Dichloroacetic ac... | 20.96 | 2.8     | ng/ul | 192661   | 5                     | 21.25 | 1385290 | 20.0 |
| 1-Ethanone, 1-{2-... | 27.79 | 7.3     | ng/ul | 403483   | 6                     | 23.47 | 1097750 | 20.0 |