

Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120718\  
 Data File : BM018000.D  
 Acq On : 07 Dec 2018 15:22  
 Operator : JU/SJ  
 Sample : J6077-01  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9Y35

## 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:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.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         | 3.163       | 26            | 30          | 37           | rVB      | 31562          | 45803         | 1.49%           | 0.145%        |
| 2         | 3.440       | 75            | 77          | 79           | rBV3     | 4958           | 5118          | 0.17%           | 0.016%        |
| 3         | 3.763       | 128           | 132         | 136          | rBV4     | 4404           | 5866          | 0.19%           | 0.019%        |
| 4         | 4.287       | 218           | 221         | 224          | rBV4     | 2557           | 3602          | 0.12%           | 0.011%        |
| 5         | 4.316       | 224           | 226         | 231          | rVB4     | 2541           | 3447          | 0.11%           | 0.011%        |
| 6         | 4.728       | 293           | 296         | 297          | rBV2     | 4743           | 4755          | 0.15%           | 0.015%        |
| 7         | 4.757       | 297           | 301         | 304          | rVV3     | 13417          | 21575         | 0.70%           | 0.068%        |
| 8         | 4.804       | 307           | 309         | 315          | rVB5     | 6282           | 8006          | 0.26%           | 0.025%        |
| 9         | 5.457       | 417           | 420         | 424          | rVB3     | 3457           | 4659          | 0.15%           | 0.015%        |
| 10        | 5.540       | 431           | 434         | 438          | rVV5     | 2694           | 3374          | 0.11%           | 0.011%        |
| 11        | 6.069       | 521           | 524         | 528          | rVV4     | 5008           | 8063          | 0.26%           | 0.026%        |
| 12        | 6.122       | 530           | 533         | 539          | rVV4     | 6845           | 11689         | 0.38%           | 0.037%        |
| 13        | 6.192       | 541           | 545         | 546          | rVV2     | 4111           | 4313          | 0.14%           | 0.014%        |
| 14        | 6.228       | 549           | 551         | 555          | rVB4     | 6398           | 8397          | 0.27%           | 0.027%        |
| 15        | 6.398       | 574           | 580         | 583          | rBV5     | 2248           | 4523          | 0.15%           | 0.014%        |
| 16        | 6.687       | 626           | 629         | 633          | rBV3     | 6477           | 6159          | 0.20%           | 0.020%        |
| 17        | 6.745       | 633           | 639         | 653          | rBV2     | 466922         | 950039        | 30.90%          | 3.012%        |
| 18        | 6.910       | 659           | 667         | 675          | rBV      | 423294         | 672516        | 21.87%          | 2.132%        |
| 19        | 7.004       | 680           | 683         | 686          | rBV3     | 3739           | 4019          | 0.13%           | 0.013%        |
| 20        | 7.092       | 691           | 698         | 709          | rBV      | 588807         | 971133        | 31.59%          | 3.078%        |
| 21        | 7.557       | 771           | 777         | 786          | rVB      | 462953         | 749777        | 24.39%          | 2.377%        |
| 22        | 7.822       | 820           | 822         | 825          | rVB4     | 4802           | 4483          | 0.15%           | 0.014%        |
| 23        | 8.086       | 862           | 867         | 869          | rBV4     | 3725           | 5041          | 0.16%           | 0.016%        |
| 24        | 8.269       | 890           | 898         | 912          | rBV      | 587333         | 1063933       | 34.61%          | 3.373%        |
| 25        | 8.610       | 951           | 956         | 957          | rBV3     | 4570           | 5771          | 0.19%           | 0.018%        |
| 26        | 8.633       | 957           | 960         | 965          | rVV6     | 5690           | 11279         | 0.37%           | 0.036%        |
| 27        | 8.710       | 967           | 973         | 987          | rVV      | 494086         | 845262        | 27.49%          | 2.679%        |
| 28        | 8.816       | 987           | 991         | 992          | rVV3     | 3463           | 4848          | 0.16%           | 0.015%        |
| 29        | 8.839       | 992           | 995         | 997          | rVV4     | 3708           | 5186          | 0.17%           | 0.016%        |
| 30        | 8.875       | 1000          | 1001        | 1007         | rVB5     | 4850           | 6599          | 0.21%           | 0.021%        |
| 31        | 9.092       | 1034          | 1038        | 1045         | rVB2     | 11238          | 16343         | 0.53%           | 0.052%        |
| 32        | 9.233       | 1058          | 1062        | 1066         | rVB5     | 3479           | 5447          | 0.18%           | 0.017%        |
| 33        | 9.422       | 1087          | 1094        | 1104         | rBV      | 391217         | 706209        | 22.97%          | 2.239%        |
| 34        | 9.733       | 1141          | 1147        | 1152         | rBV5     | 9040           | 12091         | 0.39%           | 0.038%        |

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Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 9.957  | 1178 | 1185 | 1195 | rBV  | 524749  | 999833  | 32.52% | 3.169% |
| 36 | 10.322 | 1240 | 1247 | 1256 | rBV  | 592483  | 996956  | 32.43% | 3.160% |
| 37 | 10.480 | 1267 | 1274 | 1296 | rVV  | 401180  | 982495  | 31.96% | 3.114% |
| 38 | 10.798 | 1327 | 1328 | 1332 | rVB3 | 5629    | 4606    | 0.15%  | 0.015% |
| 39 | 11.016 | 1364 | 1365 | 1370 | rVB4 | 4955    | 5488    | 0.18%  | 0.017% |
| 40 | 11.351 | 1418 | 1422 | 1428 | rVV5 | 8976    | 16739   | 0.54%  | 0.053% |
| 41 | 11.598 | 1456 | 1464 | 1468 | rVB6 | 3814    | 10484   | 0.34%  | 0.033% |
| 42 | 11.963 | 1519 | 1526 | 1528 | rBV4 | 4960    | 11173   | 0.36%  | 0.035% |
| 43 | 11.980 | 1528 | 1529 | 1534 | rVB4 | 3944    | 4282    | 0.14%  | 0.014% |
| 44 | 12.245 | 1571 | 1574 | 1578 | rVB2 | 4891    | 5733    | 0.19%  | 0.018% |
| 45 | 12.469 | 1608 | 1612 | 1616 | rVB5 | 5013    | 6597    | 0.21%  | 0.021% |
| 46 | 12.721 | 1650 | 1655 | 1661 | rVB3 | 10344   | 16194   | 0.53%  | 0.051% |
| 47 | 12.992 | 1696 | 1701 | 1704 | rBV3 | 3967    | 5425    | 0.18%  | 0.017% |
| 48 | 13.039 | 1706 | 1709 | 1715 | rVB2 | 3484    | 5979    | 0.19%  | 0.019% |
| 49 | 13.180 | 1727 | 1733 | 1738 | rVB4 | 3683    | 6962    | 0.23%  | 0.022% |
| 50 | 13.527 | 1786 | 1792 | 1794 | rBV5 | 4147    | 5947    | 0.19%  | 0.019% |
| 51 | 13.627 | 1802 | 1809 | 1814 | rBV  | 929441  | 1445884 | 47.03% | 4.583% |
| 52 | 13.674 | 1814 | 1817 | 1826 | rVB2 | 127025  | 208719  | 6.79%  | 0.662% |
| 53 | 13.892 | 1846 | 1854 | 1872 | rBV  | 1239525 | 1865815 | 60.69% | 5.915% |
| 54 | 14.127 | 1888 | 1894 | 1896 | rVB4 | 2839    | 3767    | 0.12%  | 0.012% |
| 55 | 14.204 | 1901 | 1907 | 1917 | rBV2 | 761479  | 1198980 | 39.00% | 3.801% |
| 56 | 14.457 | 1944 | 1950 | 1964 | rBV  | 121863  | 392426  | 12.76% | 1.244% |
| 57 | 14.739 | 1994 | 1998 | 2000 | rBV5 | 5088    | 5694    | 0.19%  | 0.018% |
| 58 | 14.798 | 2006 | 2008 | 2013 | rBV4 | 3625    | 6227    | 0.20%  | 0.020% |
| 59 | 15.051 | 2047 | 2051 | 2052 | rBV2 | 6742    | 5297    | 0.17%  | 0.017% |
| 60 | 15.068 | 2052 | 2054 | 2058 | rVB3 | 7425    | 9229    | 0.30%  | 0.029% |
| 61 | 15.210 | 2071 | 2078 | 2091 | rBV  | 1495178 | 2259917 | 73.51% | 7.164% |
| 62 | 15.351 | 2096 | 2102 | 2113 | rVV  | 340735  | 579335  | 18.84% | 1.836% |
| 63 | 15.457 | 2116 | 2120 | 2127 | rVB6 | 19035   | 43115   | 1.40%  | 0.137% |
| 64 | 15.686 | 2155 | 2159 | 2162 | rBV4 | 5043    | 6880    | 0.22%  | 0.022% |
| 65 | 15.786 | 2172 | 2176 | 2177 | rBV3 | 3341    | 3504    | 0.11%  | 0.011% |
| 66 | 15.939 | 2197 | 2202 | 2203 | rBV4 | 5744    | 6116    | 0.20%  | 0.019% |
| 67 | 15.957 | 2203 | 2205 | 2209 | rVB3 | 7496    | 8889    | 0.29%  | 0.028% |
| 68 | 16.109 | 2229 | 2231 | 2234 | rBV3 | 3470    | 4294    | 0.14%  | 0.014% |
| 69 | 16.280 | 2255 | 2260 | 2261 | rBV2 | 2543    | 3465    | 0.11%  | 0.011% |
| 70 | 16.345 | 2267 | 2271 | 2275 | rVB5 | 4057    | 6152    | 0.20%  | 0.020% |
| 71 | 16.404 | 2279 | 2281 | 2286 | rBV2 | 2688    | 4842    | 0.16%  | 0.015% |

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 Peak separation: 5

Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 16.756 | 2334 | 2341 | 2342 | rBV4 | 4633    | 10251   | 0.33%   | 0.032% |
| 73  | 16.786 | 2345 | 2346 | 2351 | rVB4 | 6416    | 5537    | 0.18%   | 0.018% |
| 74  | 16.962 | 2370 | 2376 | 2386 | rBV  | 951241  | 1329669 | 43.25%  | 4.215% |
| 75  | 17.062 | 2386 | 2393 | 2405 | rVV2 | 1509728 | 2310282 | 75.14%  | 7.324% |
| 76  | 17.392 | 2447 | 2449 | 2452 | rVB4 | 4082    | 4710    | 0.15%   | 0.015% |
| 77  | 17.827 | 2519 | 2523 | 2525 | rBV3 | 2449    | 3671    | 0.12%   | 0.012% |
| 78  | 17.874 | 2525 | 2531 | 2538 | rBV2 | 75308   | 144184  | 4.69%   | 0.457% |
| 79  | 18.162 | 2577 | 2580 | 2586 | rVB6 | 7731    | 9578    | 0.31%   | 0.030% |
| 80  | 18.750 | 2678 | 2680 | 2683 | rVV3 | 2911    | 4086    | 0.13%   | 0.013% |
| 81  | 18.803 | 2687 | 2689 | 2698 | rVB6 | 8075    | 12856   | 0.42%   | 0.041% |
| 82  | 19.003 | 2720 | 2723 | 2730 | rBV  | 12311   | 19628   | 0.64%   | 0.062% |
| 83  | 19.168 | 2747 | 2751 | 2758 | rBV5 | 26495   | 51948   | 1.69%   | 0.165% |
| 84  | 19.256 | 2762 | 2766 | 2770 | rBV  | 11634   | 18547   | 0.60%   | 0.059% |
| 85  | 19.315 | 2772 | 2776 | 2779 | rBV2 | 89095   | 97753   | 3.18%   | 0.310% |
| 86  | 19.368 | 2779 | 2785 | 2794 | rBV  | 1917063 | 2677904 | 87.10%  | 8.489% |
| 87  | 19.556 | 2815 | 2817 | 2820 | rBV4 | 4815    | 5326    | 0.17%   | 0.017% |
| 88  | 19.933 | 2875 | 2881 | 2884 | rBV4 | 25841   | 33702   | 1.10%   | 0.107% |
| 89  | 20.209 | 2926 | 2928 | 2929 | rBV2 | 6577    | 6765    | 0.22%   | 0.021% |
| 90  | 20.368 | 2952 | 2955 | 2961 | rVB3 | 53779   | 64583   | 2.10%   | 0.205% |
| 91  | 20.433 | 2962 | 2966 | 2970 | rBV  | 49327   | 61217   | 1.99%   | 0.194% |
| 92  | 20.903 | 3041 | 3046 | 3053 | rBV2 | 125329  | 200193  | 6.51%   | 0.635% |
| 93  | 21.180 | 3087 | 3093 | 3105 | rBV  | 1012675 | 1654616 | 53.82%  | 5.245% |
| 94  | 21.339 | 3117 | 3120 | 3124 | rVB2 | 83483   | 90836   | 2.95%   | 0.288% |
| 95  | 21.762 | 3189 | 3192 | 3195 | rBV2 | 87588   | 98708   | 3.21%   | 0.313% |
| 96  | 22.209 | 3265 | 3268 | 3273 | rVB  | 125465  | 155279  | 5.05%   | 0.492% |
| 97  | 22.697 | 3348 | 3351 | 3356 | rVB2 | 124145  | 169775  | 5.52%   | 0.538% |
| 98  | 23.215 | 3432 | 3439 | 3451 | rBV  | 1512123 | 3074504 | 100.00% | 9.746% |
| 99  | 23.350 | 3456 | 3462 | 3475 | rVB  | 859400  | 1637399 | 53.26%  | 5.191% |
| 100 | 23.856 | 3543 | 3548 | 3557 | rVB4 | 126935  | 249610  | 8.12%   | 0.791% |

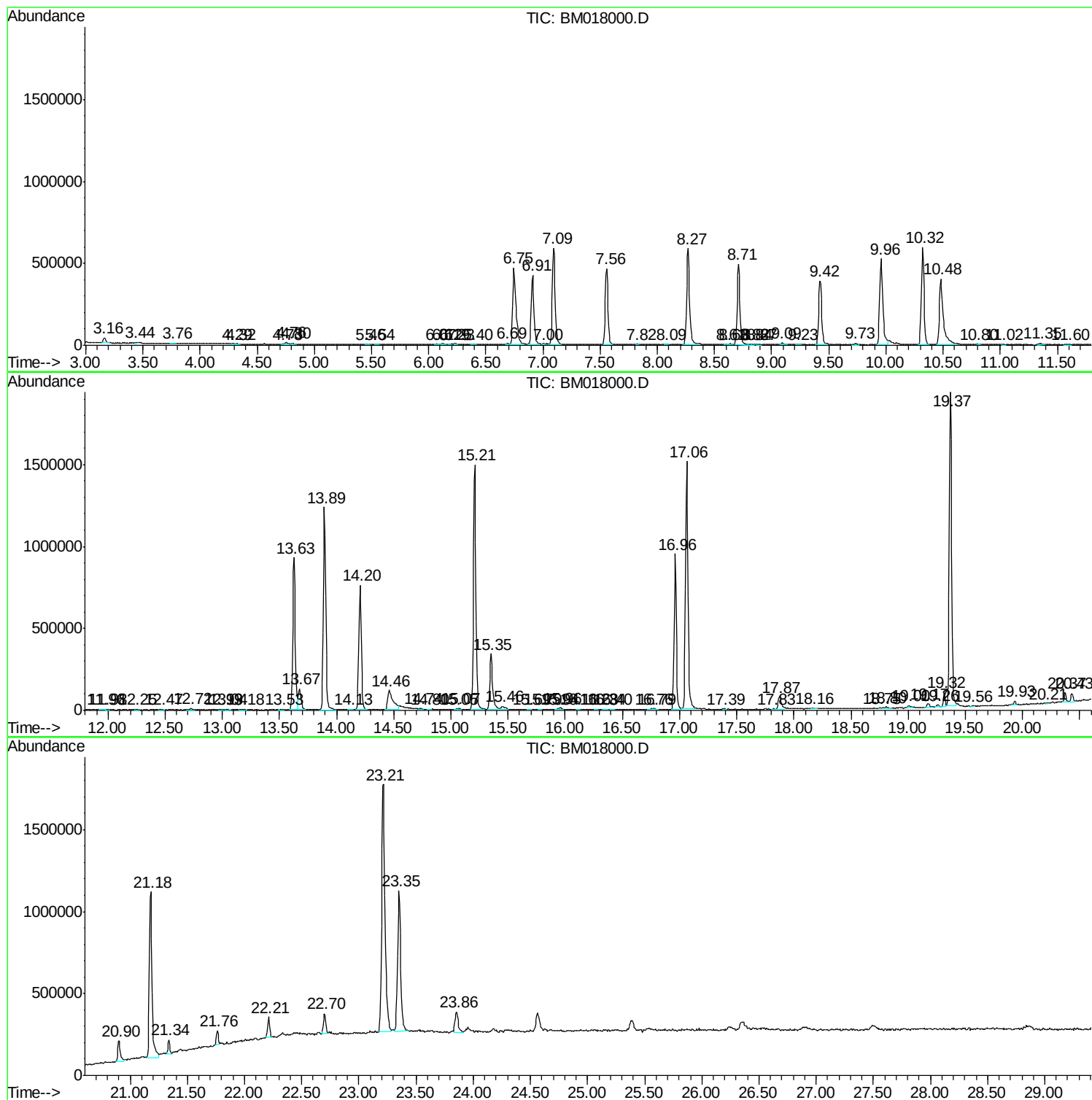
Sum of corrected areas: 31545882

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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM11918MA.M  
Quant Title : SVOA CALIBRATION

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



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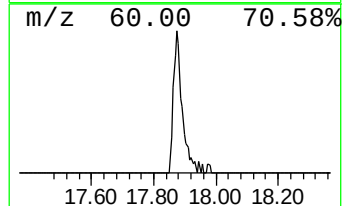
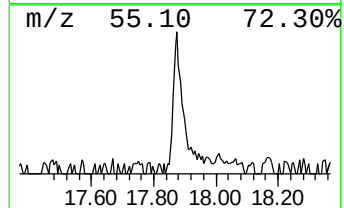
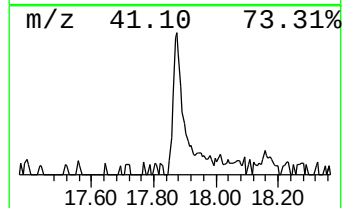
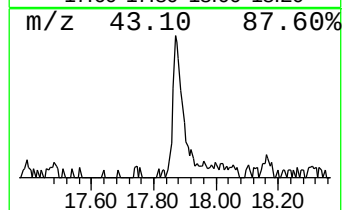
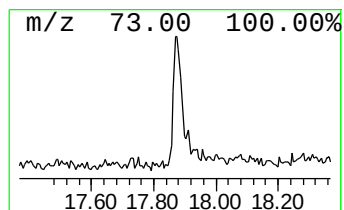
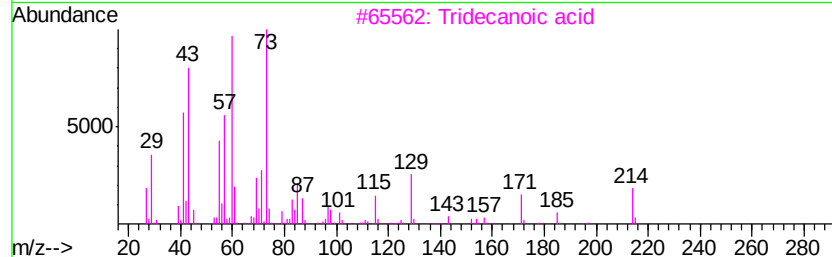
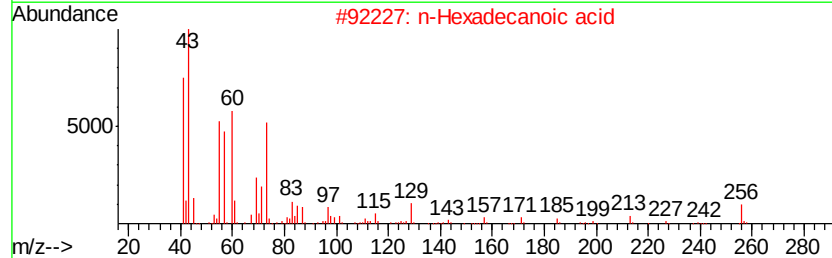
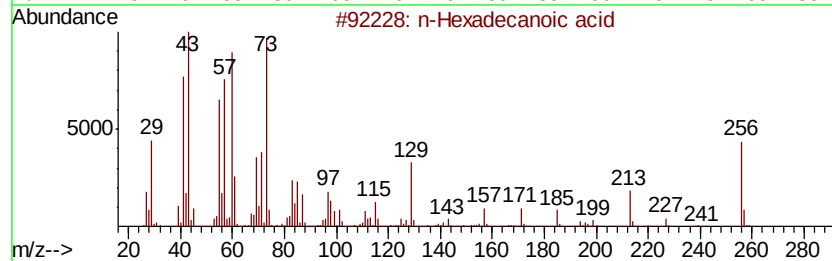
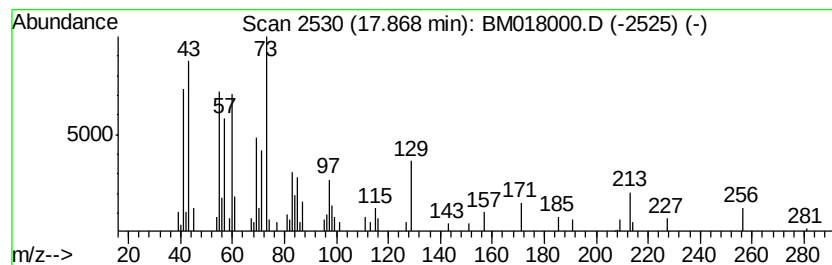
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Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION

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

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Peak Number 1 n-Hexadecanoic acid Concentration Rank 3

| R.T.    | EstConc             | Area         | Relative to ISTD | R.T.      |
|---------|---------------------|--------------|------------------|-----------|
| 17.87   | 2.17 ng/ul          | 144184       | Phenanthrene-d10 | 16.96     |
| Hit# of | 5                   | Tentative ID | MW MolForm       | CAS# Qual |
| 1       | n-Hexadecanoic acid | 256 C16H32O2 | 000057-10-3      | 94        |
| 2       | n-Hexadecanoic acid | 256 C16H32O2 | 000057-10-3      | 94        |
| 3       | Tridecanoic acid    | 214 C13H26O2 | 000638-53-9      | 76        |
| 4       | Tridecanoic acid    | 214 C13H26O2 | 000638-53-9      | 72        |
| 5       | n-Decanoic acid     | 172 C10H20O2 | 000334-48-5      | 53        |



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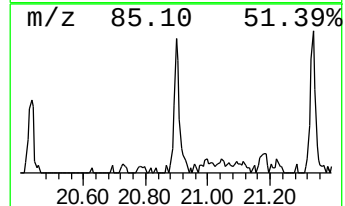
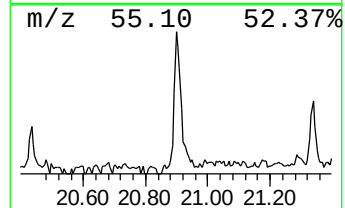
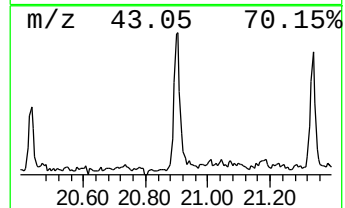
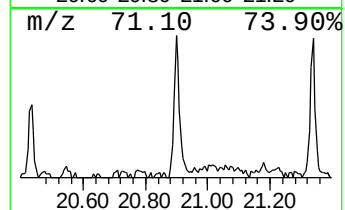
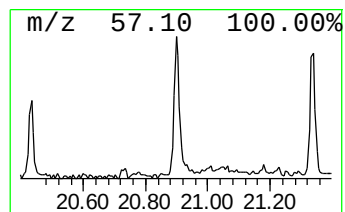
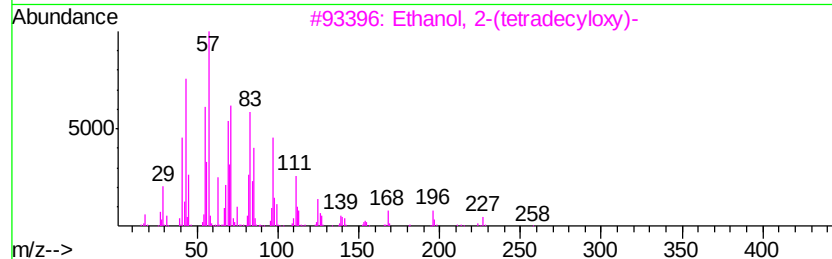
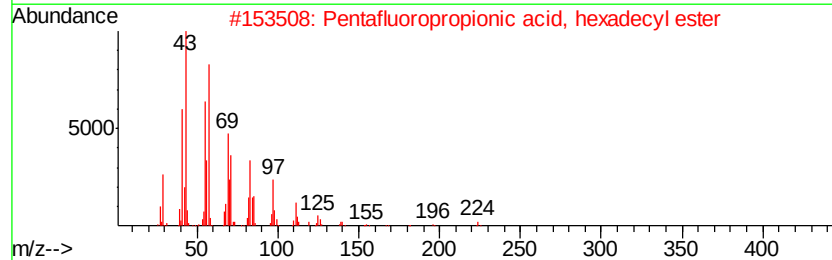
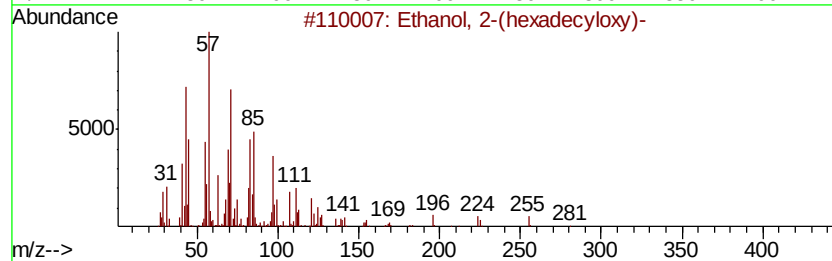
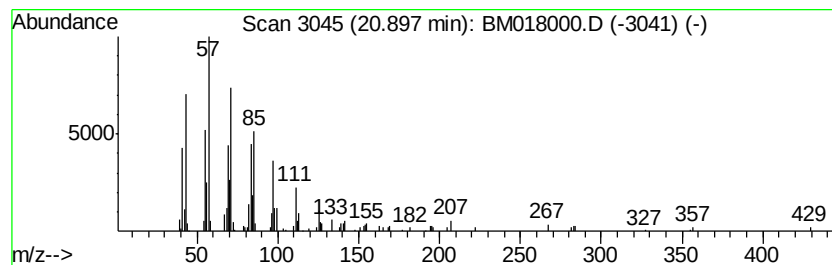
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 2 Ethanol, 2-(hexadecyloxy)- Concentration Rank 2

| R.T.    | EstConc    | Area                                | Relative to ISTD | R.T.            |
|---------|------------|-------------------------------------|------------------|-----------------|
| 20.90   | 2.42 ng/ul | 200193                              | Chrysene-d12     | 21.18           |
| Hit# of | 5          | Tentative ID                        | MW MolForm       | CAS# Qual       |
| 1       |            | Ethanol, 2-(hexadecyloxy)-          | 286 C18H38O2     | 002136-71-2 83  |
| 2       |            | Pentafluoropropionic acid, hexad... | 388 C19H33F5O2   | 006222-07-7 76  |
| 3       |            | Ethanol, 2-(tetradecyloxy)-         | 258 C16H34O2     | 002136-70-1 76  |
| 4       |            | Pentafluoropropionic acid, octad... | 416 C21H37F5O2   | 1000280-07-7 68 |
| 5       |            | Trifluoroacetic acid, n-octadecy... | 366 C20H37F3O2   | 079392-43-1 68  |



Data Path : Z:\SVOASRV\HPCHEM1\BNA M\DATA\BM120718\  
 Data File : BM018000.D  
 Acq On : 07 Dec 2018 15:22  
 Operator : JU/SJ  
 Sample : J6077-01  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_M  
 ClientSampleId :  
 F9Y35

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
 Quant Title : SVOA CALIBRATION

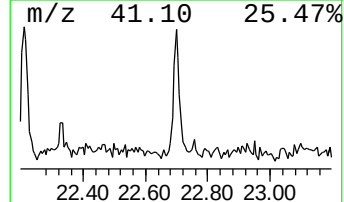
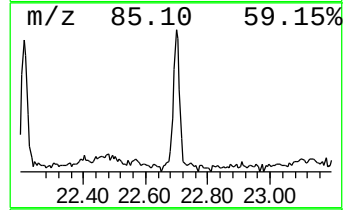
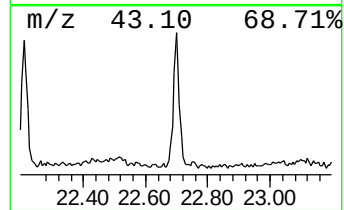
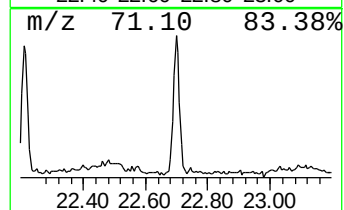
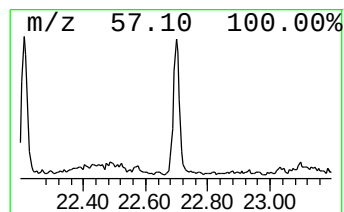
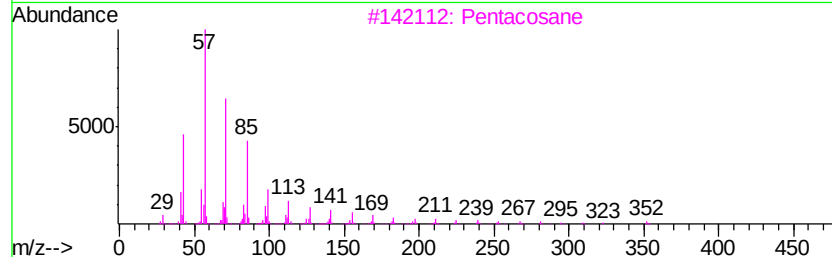
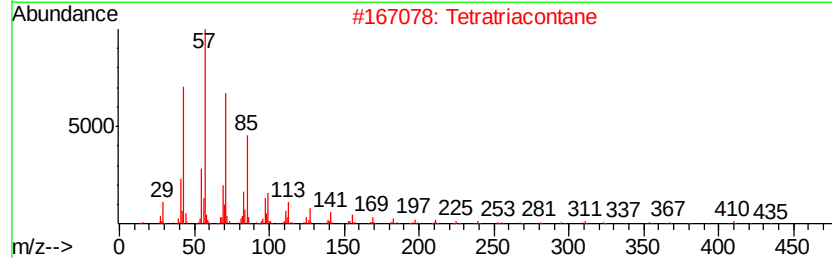
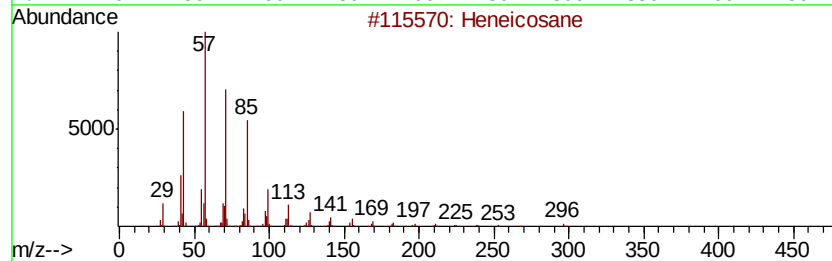
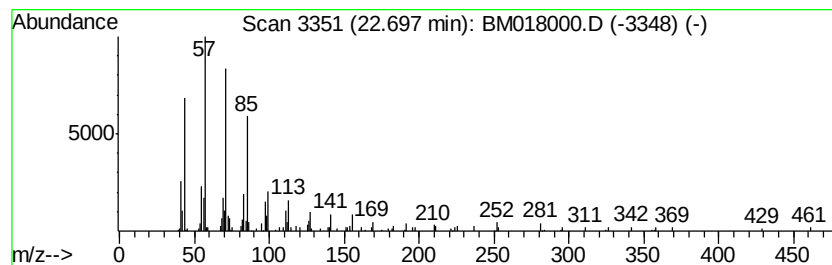
TIC Library : C:\DATABASE\NIST02.L  
 TIC Integration Parameters: LSCINT.P

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 Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.70 | 2.07 ng/ul | 169775 | Perylene-d12     | 23.35 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Heneicosane         | 296 | C21H44  | 000629-94-7 | 94   |
| 2    |    | Tetratriacontane    | 479 | C34H70  | 014167-59-0 | 90   |
| 3    |    | Pentacosane         | 352 | C25H52  | 000629-99-2 | 87   |
| 4    |    | Tetracosane         | 338 | C24H50  | 000646-31-1 | 87   |
| 5    |    | Docosane, 11-decyl- | 451 | C32H66  | 055401-55-3 | 87   |





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Data File : BM018000.D  
Acq On : 07 Dec 2018 15:22  
Operator : JU/SJ  
Sample : J6077-01  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y35

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.M  
Quant Title : SVOA CALIBRATION

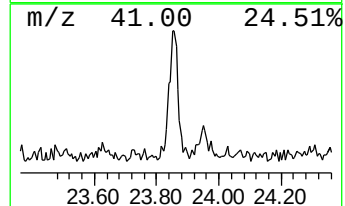
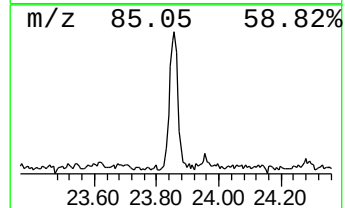
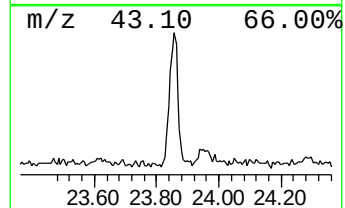
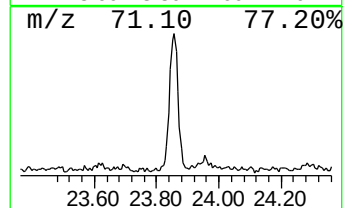
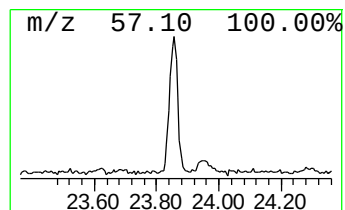
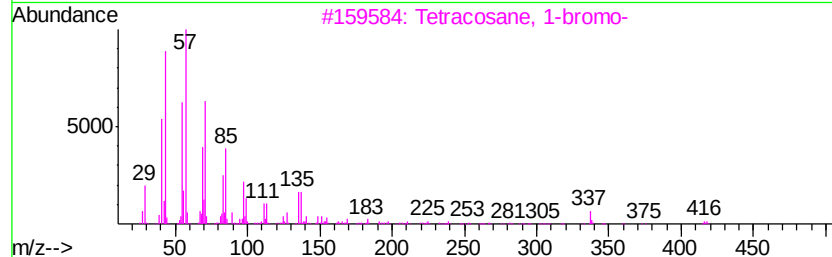
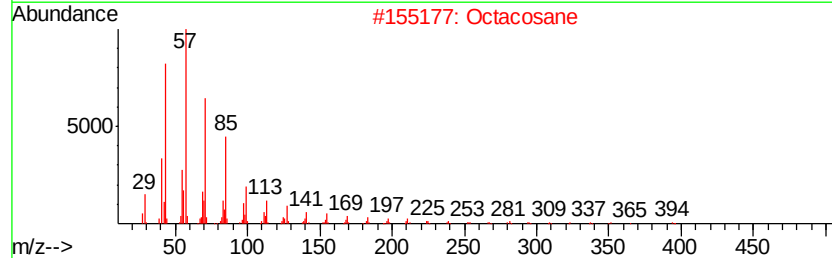
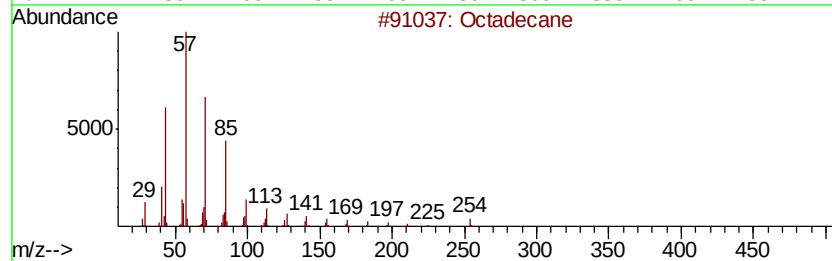
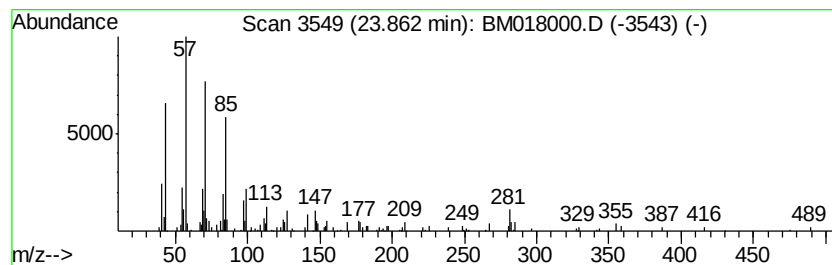
TIC Library : C:\DATABASE\NIST02.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 23.86 | 3.05 ng/ul | 249610 | Perylene-d12     | 23.35 |

| Hit# | of | Tentative ID          | MW  | MolForm  | CAS#        | Qual |
|------|----|-----------------------|-----|----------|-------------|------|
| 1    | 5  | Octadecane            | 254 | C18H38   | 000593-45-3 | 94   |
| 2    |    | Octacosane            | 394 | C28H58   | 000630-02-4 | 81   |
| 3    |    | Tetracosane, 1-bromo- | 416 | C24H49Br | 006946-24-3 | 74   |
| 4    |    | triacontane           | 422 | C30H62   | 000638-68-6 | 74   |
| 5    |    | Tetracosane           | 338 | C24H50   | 000646-31-1 | 74   |





Data Path : Z:\SVOASRV\HPCHEM1\BNA\_M\DATA\BM120718\  
Data File : BM018000.D  
Acq On : 07 Dec 2018 15:22  
Operator : JU/SJ  
Sample : J6077-01  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_M  
ClientSampleId :  
F9Y35

Quant Method : Z:\SVOASRV\HPCHEM1\BNA\_M\METHODS\SOM-EPA-BM111918MA.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 |
| n-Hexadecanoic acid  | 17.87 | 2.2     | ng/ul | 144184   | 4                     | 16.96 | 1329670 | 20.0 |
| Ethanol, 2-(hexad... | 20.90 | 2.4     | ng/ul | 200193   | 5                     | 21.18 | 1654620 | 20.0 |
| (DEL) Alkane: Str... | 22.70 | 2.1     | ng/ul | 169775   | 6                     | 23.35 | 1637400 | 20.0 |
| (DEL) Alkane: Str... | 23.86 | 3.0     | ng/ul | 249610   | 6                     | 23.35 | 1637400 | 20.0 |