

Data Path : Z:\HPCHEM1\BNA G\Data\BG112116\  
 Data File : BG024859.D  
 Acq On : 21 Nov 2016 15:14  
 Operator : UM/SJ  
 Sample : H5694-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 JHSR2

## 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-BG111416.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         | 3.179       | 56            | 58          | 63           | rVB2     | 26865          | 37040         | 1.39%           | 0.123%        |
| 2         | 3.631       | 129           | 135         | 139          | rBV5     | 12962          | 23706         | 0.89%           | 0.079%        |
| 3         | 4.383       | 257           | 263         | 270          | rBV5     | 7114           | 22270         | 0.84%           | 0.074%        |
| 4         | 4.471       | 274           | 278         | 282          | rVB4     | 5987           | 10844         | 0.41%           | 0.036%        |
| 5         | 4.518       | 282           | 286         | 289          | rBV2     | 6267           | 8931          | 0.34%           | 0.030%        |
| 6         | 4.865       | 344           | 345         | 351          | rVV4     | 8142           | 11632         | 0.44%           | 0.039%        |
| 7         | 4.994       | 364           | 367         | 373          | rVV7     | 6627           | 12731         | 0.48%           | 0.042%        |
| 8         | 5.176       | 395           | 398         | 405          | rVB5     | 7794           | 14700         | 0.55%           | 0.049%        |
| 9         | 5.317       | 416           | 422         | 430          | rBV8     | 17262          | 40601         | 1.52%           | 0.135%        |
| 10        | 5.993       | 532           | 537         | 540          | rBV5     | 8517           | 14117         | 0.53%           | 0.047%        |
| 11        | 6.234       | 574           | 578         | 581          | rBV4     | 5702           | 10603         | 0.40%           | 0.035%        |
| 12        | 6.322       | 587           | 593         | 595          | rBV5     | 8877           | 14492         | 0.54%           | 0.048%        |
| 13        | 6.862       | 677           | 685         | 687          | rBV6     | 8518           | 17044         | 0.64%           | 0.057%        |
| 14        | 6.980       | 699           | 705         | 706          | rBV2     | 5545           | 10510         | 0.39%           | 0.035%        |
| 15        | 7.397       | 769           | 776         | 787          | rBV      | 296758         | 584431        | 21.93%          | 1.946%        |
| 16        | 7.573       | 796           | 806         | 817          | rVB      | 204907         | 366636        | 13.76%          | 1.221%        |
| 17        | 7.679       | 822           | 824         | 830          | rVB4     | 7079           | 10745         | 0.40%           | 0.036%        |
| 18        | 7.785       | 830           | 842         | 850          | rBV2     | 263542         | 501152        | 18.80%          | 1.669%        |
| 19        | 8.202       | 909           | 913         | 915          | rBV5     | 6393           | 10324         | 0.39%           | 0.034%        |
| 20        | 8.261       | 915           | 923         | 934          | rVV2     | 413746         | 747201        | 28.04%          | 2.489%        |
| 21        | 8.472       | 956           | 959         | 963          | rVB5     | 7407           | 8632          | 0.32%           | 0.029%        |
| 22        | 8.954       | 1034          | 1041        | 1052         | rBV2     | 324947         | 605586        | 22.72%          | 2.017%        |
| 23        | 9.095       | 1056          | 1065        | 1073         | rBV3     | 22227          | 60374         | 2.27%           | 0.201%        |
| 24        | 9.365       | 1108          | 1111        | 1116         | rBV5     | 6190           | 11268         | 0.42%           | 0.038%        |
| 25        | 9.436       | 1116          | 1123        | 1132         | rVV2     | 288158         | 560275        | 21.02%          | 1.866%        |
| 26        | 9.512       | 1132          | 1136        | 1138         | rVV4     | 7877           | 10009         | 0.38%           | 0.033%        |
| 27        | 9.783       | 1175          | 1182        | 1188         | rVB8     | 9097           | 22582         | 0.85%           | 0.075%        |
| 28        | 9.841       | 1188          | 1192        | 1196         | rVB5     | 5207           | 9973          | 0.37%           | 0.033%        |
| 29        | 10.159      | 1236          | 1246        | 1255         | rBV      | 271329         | 521624        | 19.57%          | 1.737%        |
| 30        | 10.329      | 1272          | 1275        | 1278         | rBV4     | 7437           | 9308          | 0.35%           | 0.031%        |
| 31        | 10.376      | 1281          | 1283        | 1286         | rBV4     | 6871           | 9168          | 0.34%           | 0.031%        |
| 32        | 10.435      | 1290          | 1293        | 1300         | rVB8     | 6452           | 15189         | 0.57%           | 0.051%        |
| 33        | 10.699      | 1328          | 1338        | 1347         | rVV      | 389800         | 722164        | 27.10%          | 2.405%        |
| 34        | 11.005      | 1389          | 1390        | 1394         | rBV3     | 8396           | 8605          | 0.32%           | 0.029%        |

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 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-BG111416.M  
 Title : SVOA CALIBRATION

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 11.087 | 1396 | 1404 | 1417 | rVB  | 583247  | 1141896 | 42.85% | 3.803% |
| 36 | 11.222 | 1417 | 1427 | 1438 | rBV3 | 210137  | 409687  | 15.37% | 1.364% |
| 37 | 11.322 | 1438 | 1444 | 1445 | rVV5 | 4962    | 9065    | 0.34%  | 0.030% |
| 38 | 11.704 | 1503 | 1509 | 1513 | rVB4 | 6576    | 11888   | 0.45%  | 0.040% |
| 39 | 12.356 | 1615 | 1620 | 1622 | rBV2 | 6410    | 9451    | 0.35%  | 0.031% |
| 40 | 12.385 | 1622 | 1625 | 1629 | rVB2 | 6342    | 10567   | 0.40%  | 0.035% |
| 41 | 12.650 | 1664 | 1670 | 1675 | rBV6 | 12176   | 19469   | 0.73%  | 0.065% |
| 42 | 12.855 | 1703 | 1705 | 1711 | rBV5 | 6834    | 13128   | 0.49%  | 0.044% |
| 43 | 13.243 | 1769 | 1771 | 1778 | rVB7 | 6439    | 11268   | 0.42%  | 0.038% |
| 44 | 13.396 | 1792 | 1797 | 1799 | rVB5 | 8204    | 10508   | 0.39%  | 0.035% |
| 45 | 13.466 | 1804 | 1809 | 1812 | rBV6 | 7078    | 8943    | 0.34%  | 0.030% |
| 46 | 13.666 | 1838 | 1843 | 1848 | rVB5 | 11235   | 19098   | 0.72%  | 0.064% |
| 47 | 13.737 | 1849 | 1855 | 1861 | rVB6 | 19902   | 33208   | 1.25%  | 0.111% |
| 48 | 13.807 | 1861 | 1867 | 1871 | rBV3 | 6236    | 12155   | 0.46%  | 0.040% |
| 49 | 14.060 | 1907 | 1910 | 1913 | rVB5 | 7098    | 9573    | 0.36%  | 0.032% |
| 50 | 14.219 | 1933 | 1937 | 1938 | rBV4 | 10342   | 10794   | 0.41%  | 0.036% |
| 51 | 14.271 | 1938 | 1946 | 1950 | rVV  | 763520  | 1174076 | 44.06% | 3.910% |
| 52 | 14.318 | 1950 | 1954 | 1961 | rVB  | 148384  | 227077  | 8.52%  | 0.756% |
| 53 | 14.424 | 1970 | 1972 | 1976 | rVB4 | 6993    | 9864    | 0.37%  | 0.033% |
| 54 | 14.577 | 1990 | 1998 | 2006 | rBV  | 793577  | 1322968 | 49.64% | 4.406% |
| 55 | 14.730 | 2017 | 2024 | 2028 | rVB4 | 19534   | 28643   | 1.07%  | 0.095% |
| 56 | 14.877 | 2037 | 2049 | 2059 | rBV  | 1104284 | 1802168 | 67.62% | 6.002% |
| 57 | 14.982 | 2063 | 2067 | 2072 | rBV5 | 9634    | 14713   | 0.55%  | 0.049% |
| 58 | 15.059 | 2074 | 2080 | 2091 | rBV2 | 296119  | 564448  | 21.18% | 1.880% |
| 59 | 15.217 | 2104 | 2107 | 2112 | rBV7 | 9596    | 18450   | 0.69%  | 0.061% |
| 60 | 15.341 | 2123 | 2128 | 2132 | rBV7 | 8343    | 14885   | 0.56%  | 0.050% |
| 61 | 15.388 | 2134 | 2136 | 2139 | rBV3 | 8880    | 8693    | 0.33%  | 0.029% |
| 62 | 15.582 | 2165 | 2169 | 2173 | rBV6 | 4754    | 10547   | 0.40%  | 0.035% |
| 63 | 15.629 | 2173 | 2177 | 2181 | rVV6 | 15619   | 28428   | 1.07%  | 0.095% |
| 64 | 15.676 | 2181 | 2185 | 2190 | rVB3 | 52570   | 75207   | 2.82%  | 0.250% |
| 65 | 15.776 | 2197 | 2202 | 2205 | rVV7 | 8893    | 15446   | 0.58%  | 0.051% |
| 66 | 15.817 | 2205 | 2209 | 2211 | rVV5 | 11861   | 15184   | 0.57%  | 0.051% |
| 67 | 15.864 | 2211 | 2217 | 2230 | rVB  | 1113292 | 1765727 | 66.26% | 5.881% |
| 68 | 15.975 | 2230 | 2236 | 2243 | rBV  | 279579  | 422930  | 15.87% | 1.409% |
| 69 | 16.075 | 2246 | 2253 | 2254 | rBV5 | 17333   | 23627   | 0.89%  | 0.079% |
| 70 | 16.175 | 2268 | 2270 | 2275 | rBV6 | 9286    | 11609   | 0.44%  | 0.039% |
| 71 | 16.222 | 2275 | 2278 | 2282 | rVB5 | 11563   | 14061   | 0.53%  | 0.047% |

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Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG111416.M  
 Title : SVOA CALIBRATION

|     |        |      |      |      |      |         |         |         |        |
|-----|--------|------|------|------|------|---------|---------|---------|--------|
| 72  | 16.533 | 2326 | 2331 | 2333 | rBV5 | 61239   | 88373   | 3.32%   | 0.294% |
| 73  | 16.810 | 2375 | 2378 | 2385 | rVB9 | 10301   | 18280   | 0.69%   | 0.061% |
| 74  | 16.874 | 2385 | 2389 | 2390 | rBV4 | 9509    | 10684   | 0.40%   | 0.036% |
| 75  | 16.968 | 2403 | 2405 | 2410 | rVB6 | 8447    | 12322   | 0.46%   | 0.041% |
| 76  | 17.009 | 2410 | 2412 | 2419 | rBV7 | 11841   | 17939   | 0.67%   | 0.060% |
| 77  | 17.139 | 2432 | 2434 | 2441 | rVB6 | 17279   | 26992   | 1.01%   | 0.090% |
| 78  | 17.321 | 2461 | 2465 | 2471 | rVV2 | 42752   | 71702   | 2.69%   | 0.239% |
| 79  | 17.374 | 2471 | 2474 | 2477 | rVB4 | 12261   | 15484   | 0.58%   | 0.052% |
| 80  | 17.474 | 2488 | 2491 | 2497 | rVB7 | 17397   | 31773   | 1.19%   | 0.106% |
| 81  | 17.620 | 2509 | 2516 | 2527 | rBV2 | 1382590 | 2158687 | 81.00%  | 7.190% |
| 82  | 17.720 | 2527 | 2533 | 2543 | rVB2 | 1138232 | 1781566 | 66.85%  | 5.934% |
| 83  | 17.861 | 2556 | 2557 | 2561 | rBV4 | 8098    | 9929    | 0.37%   | 0.033% |
| 84  | 17.932 | 2567 | 2569 | 2572 | rBV3 | 10772   | 11295   | 0.42%   | 0.038% |
| 85  | 18.055 | 2587 | 2590 | 2599 | rBV9 | 17228   | 40287   | 1.51%   | 0.134% |
| 86  | 18.249 | 2619 | 2623 | 2625 | rBV5 | 12444   | 21851   | 0.82%   | 0.073% |
| 87  | 18.355 | 2635 | 2641 | 2642 | rBV6 | 11120   | 20817   | 0.78%   | 0.069% |
| 88  | 18.461 | 2654 | 2659 | 2668 | rBV3 | 97302   | 144802  | 5.43%   | 0.482% |
| 89  | 18.784 | 2711 | 2714 | 2720 | rVB7 | 15780   | 26399   | 0.99%   | 0.088% |
| 90  | 18.837 | 2720 | 2723 | 2727 | rBV6 | 13462   | 25329   | 0.95%   | 0.084% |
| 91  | 19.718 | 2870 | 2873 | 2879 | rBV8 | 31371   | 49766   | 1.87%   | 0.166% |
| 92  | 19.994 | 2914 | 2920 | 2931 | rBV  | 1420485 | 2100873 | 78.83%  | 6.997% |
| 93  | 21.498 | 3171 | 3176 | 3191 | rBV3 | 257624  | 573351  | 21.51%  | 1.910% |
| 94  | 21.921 | 3240 | 3248 | 3262 | rVB  | 1451127 | 2665004 | 100.00% | 8.876% |
| 95  | 22.744 | 3383 | 3388 | 3403 | rVB4 | 160847  | 471441  | 17.69%  | 1.570% |
| 96  | 23.431 | 3501 | 3505 | 3510 | rVB6 | 73499   | 145746  | 5.47%   | 0.485% |
| 97  | 24.271 | 3645 | 3648 | 3658 | rVB4 | 131705  | 262024  | 9.83%   | 0.873% |
| 98  | 25.112 | 3782 | 3791 | 3807 | rVB2 | 630409  | 1943932 | 72.94%  | 6.474% |
| 99  | 25.358 | 3824 | 3833 | 3844 | rVB3 | 811536  | 2518072 | 94.49%  | 8.387% |
| 100 | 26.487 | 4018 | 4025 | 4035 | rVB6 | 136120  | 406372  | 15.25%  | 1.353% |

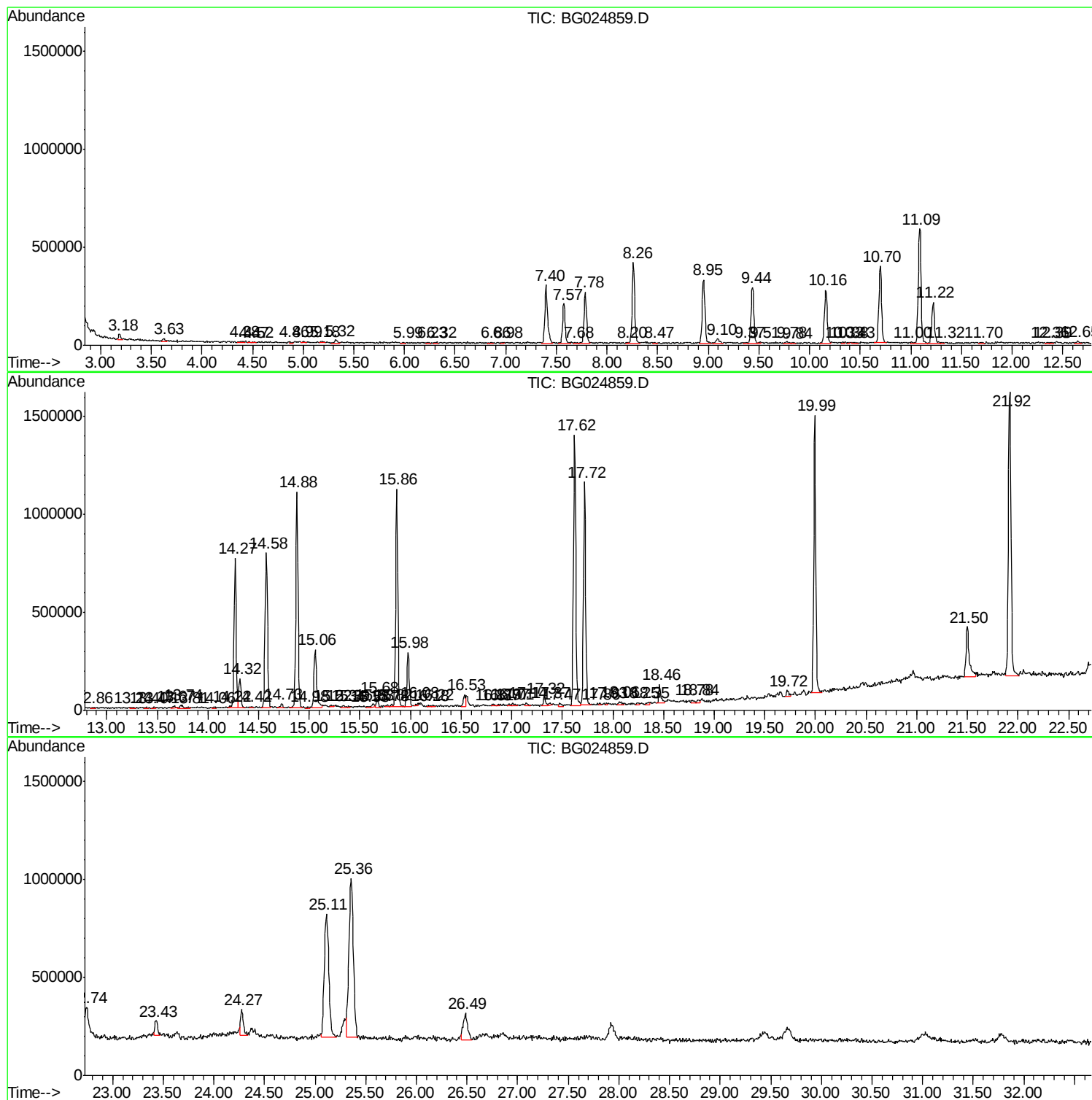
Sum of corrected areas: 30025008

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111416.M  
Quant Title : SVOA CALIBRATION

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



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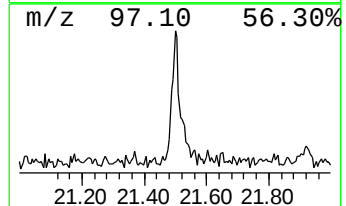
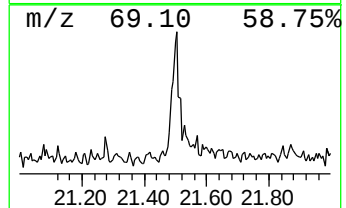
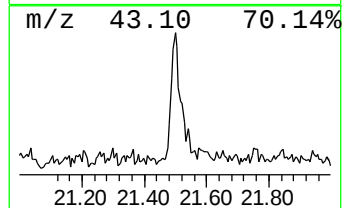
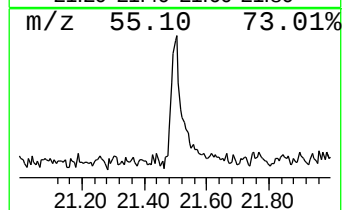
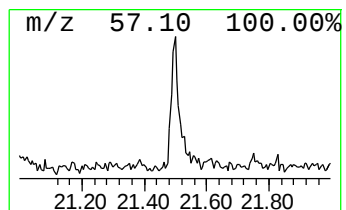
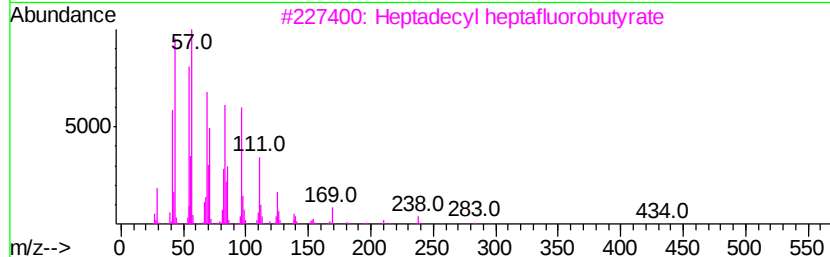
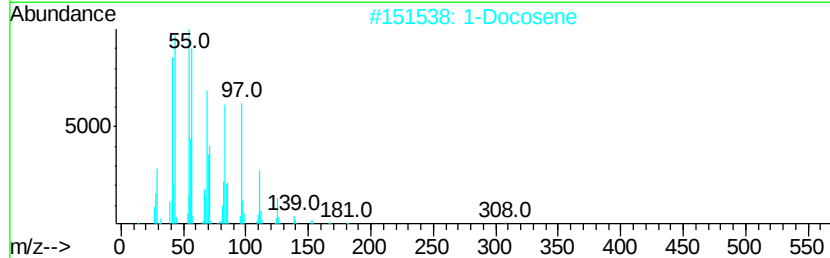
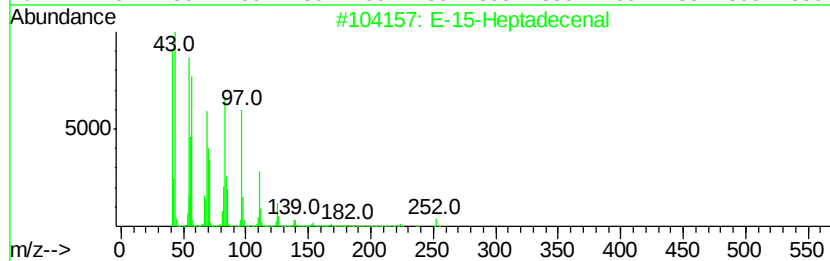
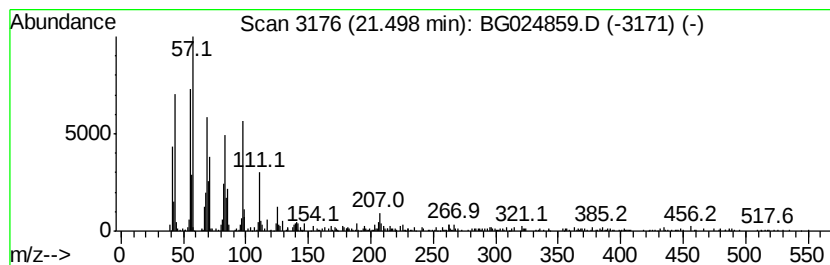
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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111416.M  
Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 E-15-Heptadecenal Concentration Rank 1

| R.T.      | EstConc                        | Area   | Relative to ISTD | R.T.         |      |
|-----------|--------------------------------|--------|------------------|--------------|------|
| 21.50     | 4.30 ng/ul                     | 573351 | Chrysene-d12     | 21.92        |      |
| Hit# of 5 | Tentative ID                   | MW     | MolForm          | CAS#         | Qual |
| 1         | E-15-Heptadecenal              | 252    | C17H32O          | 1000130-97-9 | 95   |
| 2         | 1-Docosene                     | 308    | C22H44           | 001599-67-3  | 94   |
| 3         | Heptadecyl heptafluorobutvrate | 452    | C21H35F7O2       | 959085-66-6  | 91   |
| 4         | 1-Docosene                     | 308    | C22H44           | 001599-67-3  | 91   |
| 5         | Z-14-Nonacosane                | 406    | C29H58           | 1000131-18-9 | 91   |



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Quant Title : SVOA CALIBRATION

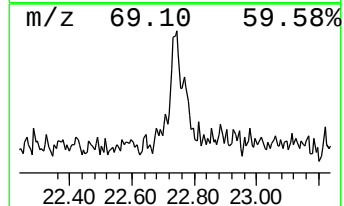
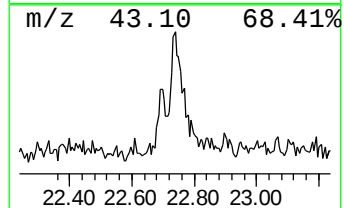
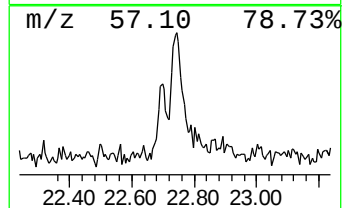
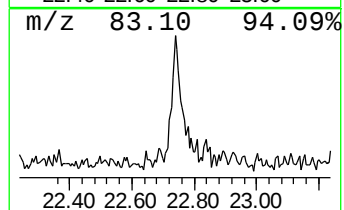
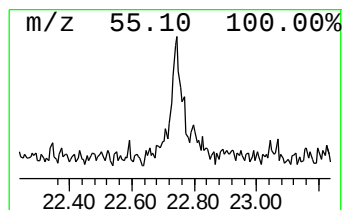
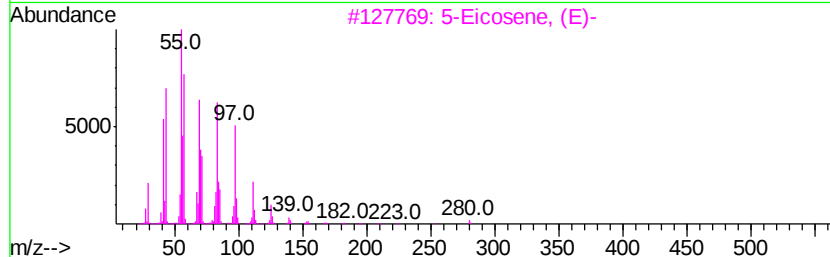
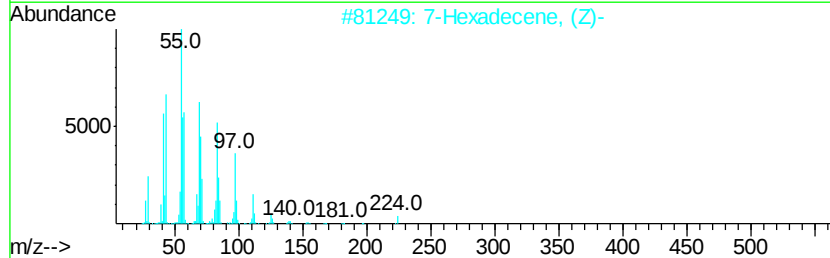
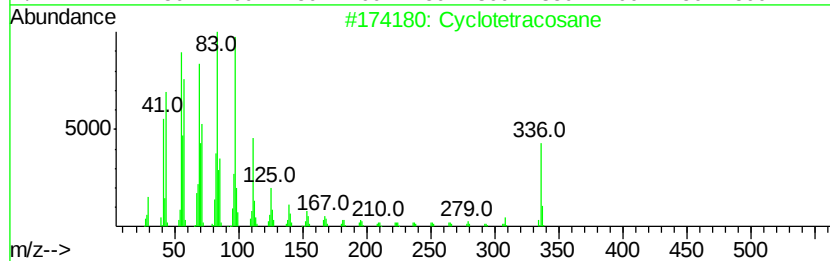
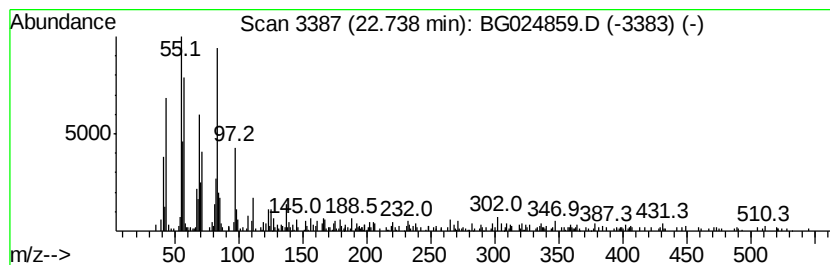
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic22.74 Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 22.74 | 3.54 ng/ul | 471441 | Chrysene-d12     | 21.92 |

| Hit# | of | Tentative ID                        | MW  | MolForm    | CAS#         | Qual |
|------|----|-------------------------------------|-----|------------|--------------|------|
| 1    | 5  | Cyclotetracosane                    | 336 | C24H48     | 000297-03-0  | 91   |
| 2    |    | 7-Hexadecene, (Z)-                  | 224 | C16H32     | 035507-09-6  | 83   |
| 3    |    | 5-Eicosene, (E)-                    | 280 | C20H40     | 074685-30-6  | 83   |
| 4    |    | Cyclodocosane, ethyl-               | 336 | C24H48     | 1000151-22-6 | 80   |
| 5    |    | Heptafluorobutyric acid, hexadec... | 438 | C20H33F7O2 | 006385-15-5  | 80   |



Data Path : Z:\HPCHEM1\BNA G\Data\BG112116\  
Data File : BG024859.D  
Acq On : 21 Nov 2016 15:14  
Operator : UM/SJ  
Sample : H5694-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JHSR2

Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM02.2-EPA-BG111416.M  
Quant Title : SVOA CALIBRATION

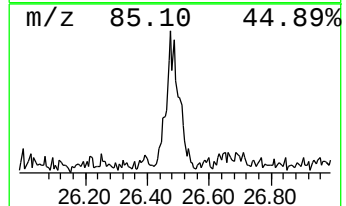
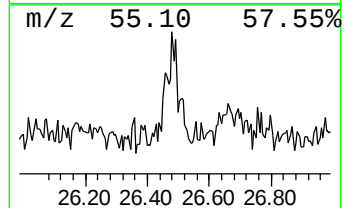
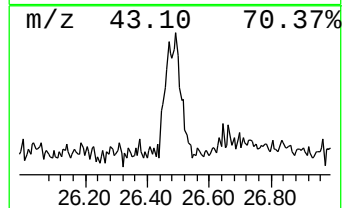
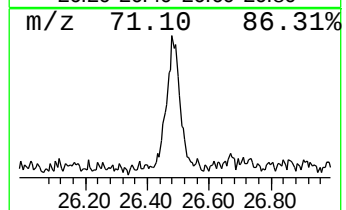
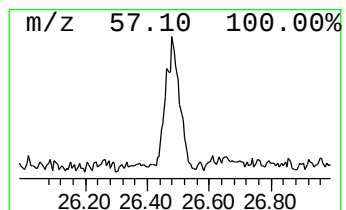
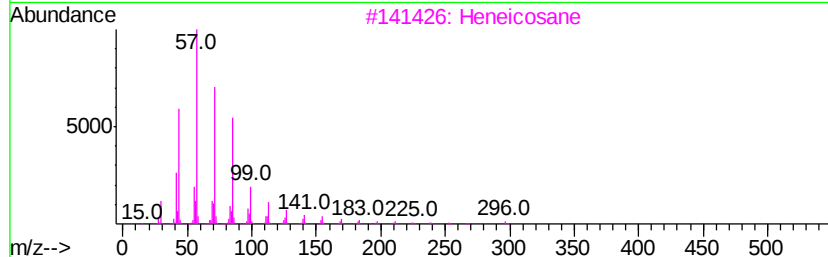
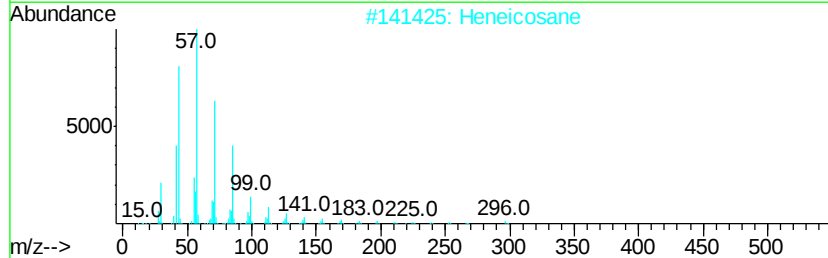
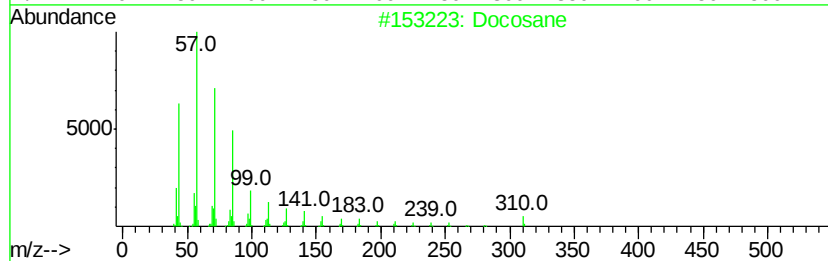
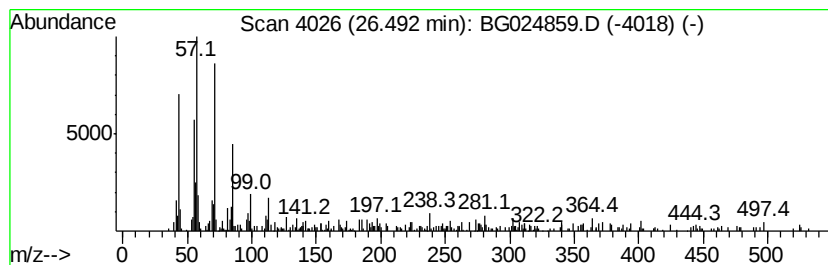
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T.  | EstConc    | Area   | Relative to ISTD | R.T.  |
|-------|------------|--------|------------------|-------|
| 26.49 | 3.23 ng/ul | 406372 | Perylene-d12     | 25.36 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#         | Qual |
|------|----|-------------------------------------|-----|---------|--------------|------|
| 1    | 5  | Docosane                            | 310 | C22H46  | 000629-97-0  | 89   |
| 2    |    | Heneicosane                         | 296 | C21H44  | 000629-94-7  | 89   |
| 3    |    | Heneicosane                         | 296 | C21H44  | 000629-94-7  | 89   |
| 4    |    | Pentacosane                         | 352 | C25H52  | 000629-99-2  | 76   |
| 5    |    | 3-Methyl-4-(methoxycarbonyl)hexa... | 184 | C9H12O4 | 1000104-10-8 | 68   |



Data Path : Z:\HPCHEM1\BNA\_G\Data\BG112116\  
Data File : BG024859.D  
Acq On : 21 Nov 2016 15:14  
Operator : UM/SJ  
Sample : H5694-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_G  
ClientSampleId :  
JHSR2

Quant Method : Z:\HPCHEM1\BNA\_G\METHODS\SOM02.2-EPA-BG111416.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 |
| E-15-Heptadecenal    | 21.50 | 4.3     | ng/ul | 573351   | 5                     | 21.92 | 2665000 | 20.0 |
| (DEL) Alkane: Cyc... | 22.74 | 3.5     | ng/ul | 471441   | 5                     | 21.92 | 2665000 | 20.0 |
| (DEL) Alkane: Str... | 26.49 | 3.2     | ng/ul | 406372   | 6                     | 25.36 | 2518070 | 20.0 |