

Data Path : U:\HPCHEM1\BNA G\DATA\BG082117\  
 Data File : BG028391.D  
 Acq On : 21 Aug 2017 15:20  
 Operator : SJ/JU  
 Sample : I4831-08  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_G  
 ClientSampleId :  
 B0AR1

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : ON Filtering: 5  
 Sampling : 1 Min Area: 0.1 % of largest Peak  
 Start Thrs: 0.1 Max Peaks: 100  
 Stop Thrs : 0 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-BG080217.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         | 3.829       | 37            | 41          | 55           | rVB5     | 10198          | 20571         | 1.35%           | 0.156%        |
| 2         | 4.134       | 88            | 93          | 96           | rBV4     | 2507           | 3899          | 0.25%           | 0.030%        |
| 3         | 4.169       | 96            | 99          | 102          | rVV4     | 2607           | 3462          | 0.23%           | 0.026%        |
| 4         | 4.557       | 162           | 165         | 168          | rBV      | 3643           | 5134          | 0.34%           | 0.039%        |
| 5         | 4.645       | 176           | 180         | 185          | rVB4     | 2445           | 4572          | 0.30%           | 0.035%        |
| 6         | 4.898       | 218           | 223         | 231          | rVB3     | 11335          | 17458         | 1.14%           | 0.132%        |
| 7         | 5.045       | 245           | 248         | 253          | rBV5     | 1891           | 3583          | 0.23%           | 0.027%        |
| 8         | 5.215       | 272           | 277         | 280          | rBV2     | 1696           | 3101          | 0.20%           | 0.024%        |
| 9         | 5.292       | 287           | 290         | 297          | rVB5     | 2274           | 4905          | 0.32%           | 0.037%        |
| 10        | 5.380       | 297           | 305         | 308          | rBV4     | 2084           | 5650          | 0.37%           | 0.043%        |
| 11        | 5.456       | 314           | 318         | 323          | rVB5     | 3259           | 5464          | 0.36%           | 0.041%        |
| 12        | 5.732       | 360           | 365         | 370          | rBV3     | 2132           | 3365          | 0.22%           | 0.026%        |
| 13        | 6.537       | 498           | 502         | 507          | rBV4     | 1971           | 3614          | 0.24%           | 0.027%        |
| 14        | 6.713       | 528           | 532         | 537          | rBV3     | 1865           | 3024          | 0.20%           | 0.023%        |
| 15        | 7.054       | 584           | 590         | 595          | rVB4     | 1965           | 4272          | 0.28%           | 0.032%        |
| 16        | 7.495       | 658           | 665         | 673          | rBV3     | 41212          | 80772         | 5.28%           | 0.613%        |
| 17        | 7.654       | 685           | 692         | 704          | rVB      | 110385         | 194834        | 12.74%          | 1.478%        |
| 18        | 7.753       | 704           | 709         | 713          | rVB3     | 1787           | 2850          | 0.19%           | 0.022%        |
| 19        | 7.877       | 723           | 730         | 742          | rVB2     | 119937         | 225897        | 14.77%          | 1.713%        |
| 20        | 8.341       | 802           | 809         | 813          | rBV      | 123121         | 220783        | 14.44%          | 1.675%        |
| 21        | 8.934       | 901           | 910         | 917          | rBV4     | 2523           | 6813          | 0.45%           | 0.052%        |
| 22        | 9.040       | 917           | 928         | 942          | rVB2     | 99544          | 199857        | 13.07%          | 1.516%        |
| 23        | 9.164       | 945           | 949         | 958          | rVB5     | 3806           | 7519          | 0.49%           | 0.057%        |
| 24        | 9.440       | 982           | 996         | 1000         | rBV6     | 6536           | 14434         | 0.94%           | 0.109%        |
| 25        | 9.510       | 1000          | 1008        | 1022         | rVB      | 152346         | 297114        | 19.43%          | 2.254%        |
| 26        | 9.827       | 1058          | 1062        | 1069         | rVB2     | 2312           | 3163          | 0.21%           | 0.024%        |
| 27        | 9.904       | 1074          | 1075        | 1082         | rVB3     | 2362           | 3712          | 0.24%           | 0.028%        |
| 28        | 10.233      | 1120          | 1131        | 1143         | rVB      | 151422         | 288010        | 18.83%          | 2.184%        |
| 29        | 10.309      | 1143          | 1144        | 1149         | rBV3     | 2489           | 3170          | 0.21%           | 0.024%        |
| 30        | 10.486      | 1171          | 1174        | 1180         | rBV3     | 1683           | 3068          | 0.20%           | 0.023%        |
| 31        | 10.538      | 1180          | 1183        | 1188         | rVB3     | 1899           | 3158          | 0.21%           | 0.024%        |
| 32        | 10.621      | 1192          | 1197        | 1202         | rVB3     | 2124           | 4937          | 0.32%           | 0.037%        |
| 33        | 10.779      | 1216          | 1224        | 1236         | rBV2     | 179912         | 368597        | 24.10%          | 2.796%        |
| 34        | 10.914      | 1244          | 1247        | 1252         | rVB2     | 2210           | 3280          | 0.21%           | 0.025%        |

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|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 11.161 | 1280 | 1289 | 1297 | rVB  | 178357 | 325353  | 21.27% | 2.468% |
| 36 | 11.296 | 1308 | 1312 | 1318 | rVB3 | 1656   | 3286    | 0.21%  | 0.025% |
| 37 | 11.443 | 1331 | 1337 | 1346 | rVB4 | 2936   | 4979    | 0.33%  | 0.038% |
| 38 | 11.872 | 1409 | 1410 | 1417 | rBV3 | 1733   | 3454    | 0.23%  | 0.026% |
| 39 | 12.048 | 1436 | 1440 | 1442 | rVB2 | 2069   | 3104    | 0.20%  | 0.024% |
| 40 | 12.090 | 1442 | 1447 | 1449 | rBV3 | 1613   | 2760    | 0.18%  | 0.021% |
| 41 | 12.272 | 1473 | 1478 | 1484 | rBV2 | 2288   | 5145    | 0.34%  | 0.039% |
| 42 | 12.730 | 1552 | 1556 | 1562 | rVB5 | 3480   | 5101    | 0.33%  | 0.039% |
| 43 | 12.789 | 1564 | 1566 | 1571 | rVB2 | 1750   | 2881    | 0.19%  | 0.022% |
| 44 | 13.159 | 1628 | 1629 | 1636 | rVB3 | 1795   | 3079    | 0.20%  | 0.023% |
| 45 | 13.300 | 1648 | 1653 | 1661 | rVB5 | 3091   | 5399    | 0.35%  | 0.041% |
| 46 | 13.547 | 1686 | 1695 | 1703 | rBV7 | 5042   | 14017   | 0.92%  | 0.106% |
| 47 | 13.741 | 1721 | 1728 | 1729 | rVB4 | 1919   | 3437    | 0.22%  | 0.026% |
| 48 | 13.811 | 1730 | 1740 | 1747 | rVV  | 11580  | 23184   | 1.52%  | 0.176% |
| 49 | 13.882 | 1747 | 1752 | 1761 | rVB5 | 4489   | 9916    | 0.65%  | 0.075% |
| 50 | 14.152 | 1795 | 1798 | 1803 | rVB3 | 1694   | 2881    | 0.19%  | 0.022% |
| 51 | 14.340 | 1822 | 1830 | 1843 | rBV  | 478296 | 715383  | 46.78% | 5.426% |
| 52 | 14.645 | 1874 | 1882 | 1895 | rVB  | 440071 | 691992  | 45.25% | 5.249% |
| 53 | 14.951 | 1925 | 1934 | 1941 | rBV2 | 324218 | 533000  | 34.85% | 4.043% |
| 54 | 15.016 | 1943 | 1945 | 1950 | rVB3 | 4779   | 5264    | 0.34%  | 0.040% |
| 55 | 15.162 | 1960 | 1970 | 1985 | rBV3 | 31044  | 78779   | 5.15%  | 0.598% |
| 56 | 15.403 | 2008 | 2011 | 2017 | rVB3 | 2361   | 3429    | 0.22%  | 0.026% |
| 57 | 15.503 | 2026 | 2028 | 2034 | rBV3 | 4245   | 6116    | 0.40%  | 0.046% |
| 58 | 15.615 | 2039 | 2047 | 2054 | rBV6 | 2664   | 7975    | 0.52%  | 0.060% |
| 59 | 15.738 | 2063 | 2068 | 2074 | rVB3 | 6708   | 8949    | 0.59%  | 0.068% |
| 60 | 15.885 | 2089 | 2093 | 2095 | rVB2 | 2433   | 2880    | 0.19%  | 0.022% |
| 61 | 15.938 | 2095 | 2102 | 2111 | rBV  | 641233 | 1016827 | 66.49% | 7.712% |
| 62 | 16.055 | 2111 | 2122 | 2138 | rVV  | 251043 | 400950  | 26.22% | 3.041% |
| 63 | 16.179 | 2138 | 2143 | 2151 | rVV4 | 8116   | 14983   | 0.98%  | 0.114% |
| 64 | 16.291 | 2151 | 2162 | 2170 | rVV6 | 6088   | 15545   | 1.02%  | 0.118% |
| 65 | 16.543 | 2200 | 2205 | 2207 | rBV3 | 1487   | 2779    | 0.18%  | 0.021% |
| 66 | 16.637 | 2219 | 2221 | 2227 | rBV2 | 2521   | 4310    | 0.28%  | 0.033% |
| 67 | 16.778 | 2240 | 2245 | 2248 | rBV3 | 2263   | 3643    | 0.24%  | 0.028% |
| 68 | 16.866 | 2257 | 2260 | 2263 | rBV3 | 2425   | 2848    | 0.19%  | 0.022% |
| 69 | 17.037 | 2288 | 2289 | 2298 | rBV3 | 1468   | 3556    | 0.23%  | 0.027% |
| 70 | 17.260 | 2322 | 2327 | 2329 | rBV3 | 2510   | 3064    | 0.20%  | 0.023% |
| 71 | 17.489 | 2361 | 2366 | 2371 | rBV2 | 2691   | 3793    | 0.25%  | 0.029% |

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|-----|--------|------|------|------|------|---------|---------|---------|---------|
| 72  | 17.624 | 2383 | 2389 | 2393 | rBV6 | 2949    | 6464    | 0.42%   | 0.049%  |
| 73  | 17.695 | 2393 | 2401 | 2411 | rVV  | 481801  | 766401  | 50.11%  | 5.813%  |
| 74  | 17.795 | 2411 | 2418 | 2428 | rVV  | 804711  | 1258494 | 82.29%  | 9.545%  |
| 75  | 17.947 | 2440 | 2444 | 2451 | rVV6 | 4552    | 6431    | 0.42%   | 0.049%  |
| 76  | 18.006 | 2451 | 2454 | 2461 | rVB4 | 2405    | 4148    | 0.27%   | 0.031%  |
| 77  | 18.094 | 2463 | 2469 | 2474 | rBV4 | 2796    | 5810    | 0.38%   | 0.044%  |
| 78  | 18.159 | 2474 | 2480 | 2482 | rBV2 | 2265    | 4321    | 0.28%   | 0.033%  |
| 79  | 18.288 | 2497 | 2502 | 2505 | rVB4 | 2042    | 2799    | 0.18%   | 0.021%  |
| 80  | 18.341 | 2505 | 2511 | 2518 | rBV2 | 121584  | 165186  | 10.80%  | 1.253%  |
| 81  | 18.470 | 2530 | 2533 | 2537 | rVB3 | 2257    | 2767    | 0.18%   | 0.021%  |
| 82  | 18.629 | 2556 | 2560 | 2563 | rVB2 | 4740    | 5650    | 0.37%   | 0.043%  |
| 83  | 18.817 | 2589 | 2592 | 2596 | rVB5 | 3487    | 4671    | 0.31%   | 0.035%  |
| 84  | 18.887 | 2602 | 2604 | 2608 | rBV3 | 2705    | 3027    | 0.20%   | 0.023%  |
| 85  | 18.958 | 2613 | 2616 | 2622 | rBV4 | 2015    | 2882    | 0.19%   | 0.022%  |
| 86  | 19.099 | 2639 | 2640 | 2649 | rVB6 | 2810    | 5507    | 0.36%   | 0.042%  |
| 87  | 19.164 | 2649 | 2651 | 2659 | rBV6 | 3324    | 5840    | 0.38%   | 0.044%  |
| 88  | 19.357 | 2681 | 2684 | 2689 | rVB5 | 3469    | 5779    | 0.38%   | 0.044%  |
| 89  | 19.404 | 2689 | 2692 | 2694 | rBV3 | 4037    | 5498    | 0.36%   | 0.042%  |
| 90  | 19.510 | 2704 | 2710 | 2712 | rBV4 | 2827    | 4728    | 0.31%   | 0.036%  |
| 91  | 19.710 | 2737 | 2744 | 2750 | rBV4 | 10122   | 19884   | 1.30%   | 0.151%  |
| 92  | 19.751 | 2750 | 2751 | 2754 | rVB3 | 2626    | 2776    | 0.18%   | 0.021%  |
| 93  | 19.963 | 2780 | 2787 | 2792 | rBV6 | 9950    | 19739   | 1.29%   | 0.150%  |
| 94  | 20.074 | 2797 | 2806 | 2815 | rBV  | 1011437 | 1529356 | 100.00% | 11.600% |
| 95  | 21.831 | 3101 | 3105 | 3109 | rBV5 | 8000    | 17251   | 1.13%   | 0.131%  |
| 96  | 22.025 | 3130 | 3138 | 3150 | rVB2 | 509562  | 925743  | 60.53%  | 7.022%  |
| 97  | 23.576 | 3396 | 3402 | 3411 | rVB2 | 16337   | 35768   | 2.34%   | 0.271%  |
| 98  | 25.286 | 3681 | 3693 | 3708 | rVB3 | 487925  | 1466438 | 95.89%  | 11.123% |
| 99  | 25.533 | 3718 | 3735 | 3747 | rVB2 | 279651  | 926827  | 60.60%  | 7.030%  |
| 100 | 28.341 | 4211 | 4213 | 4215 | rBV3 | 5760    | 6050    | 0.40%   | 0.046%  |

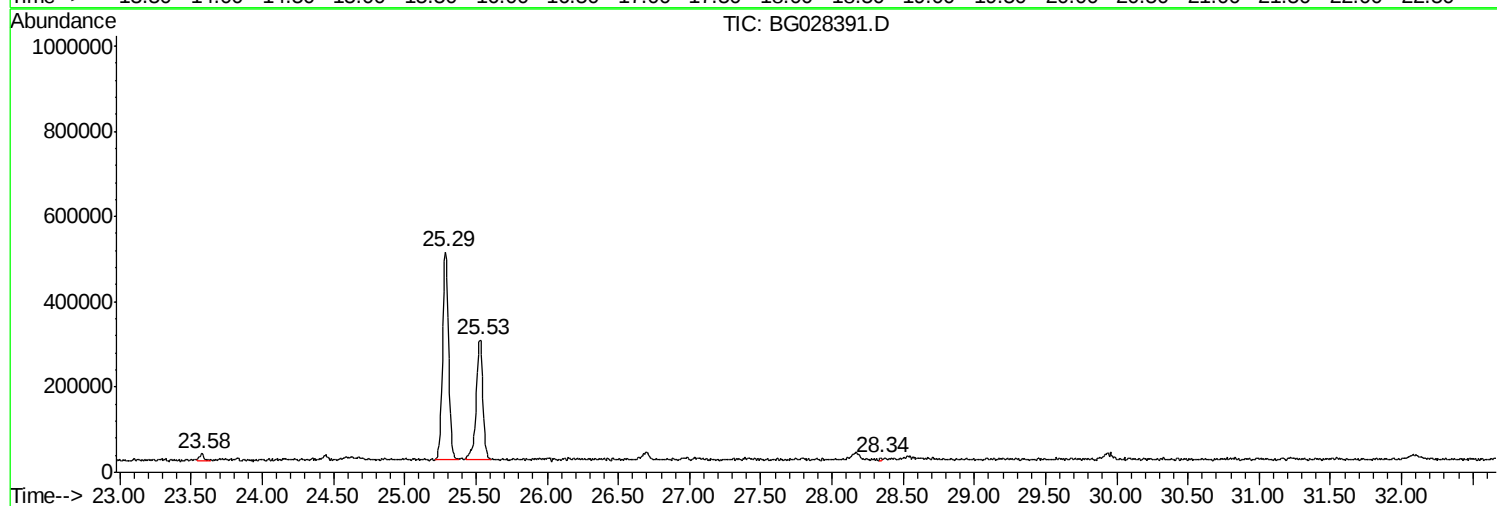
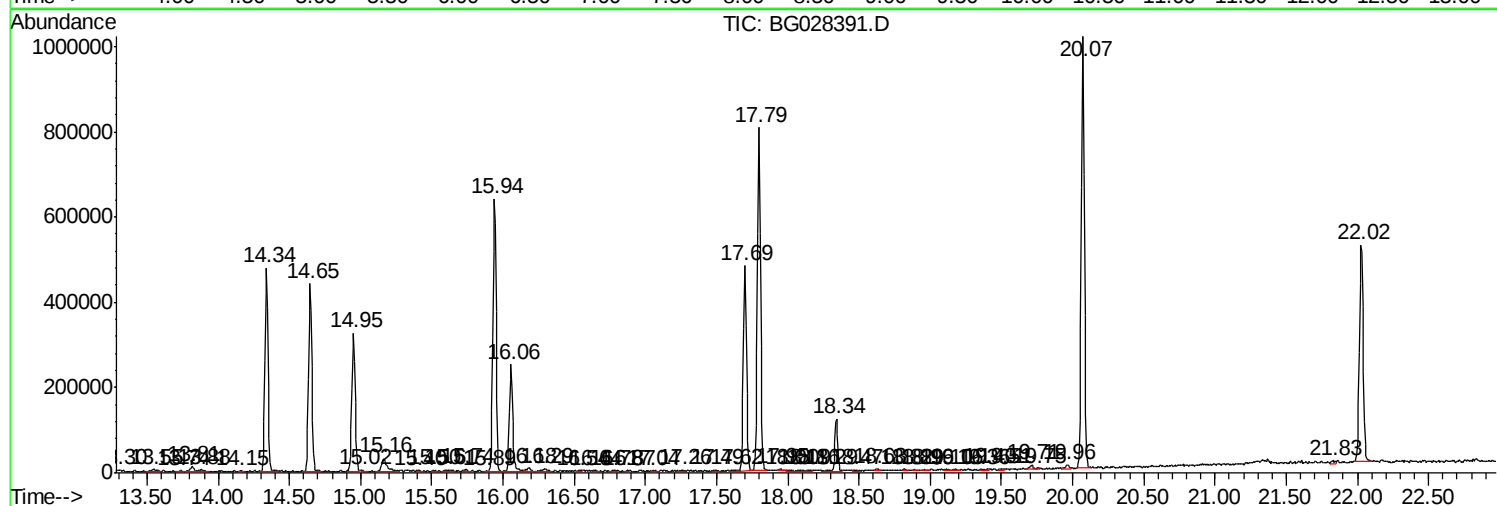
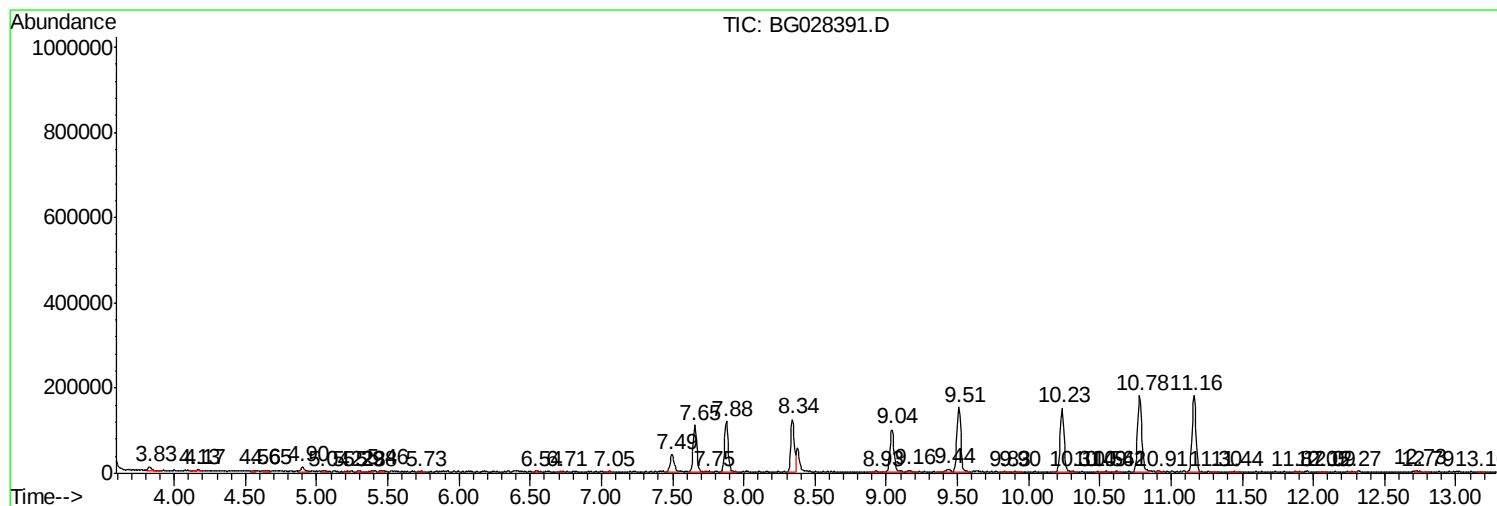
Sum of corrected areas: 13184318

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Quant Method : Z:\HPCHEM1\BNA G\METHODS\SOM-EPA-BG080217.M  
Quant Title : SVOA CALIBRATION

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



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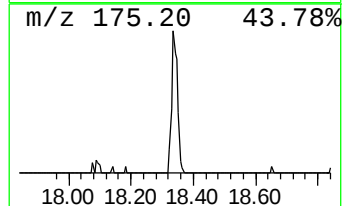
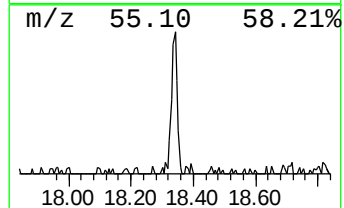
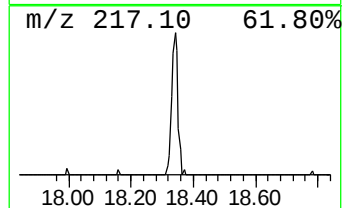
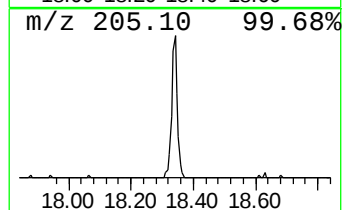
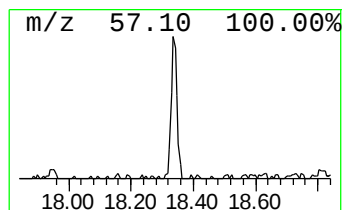
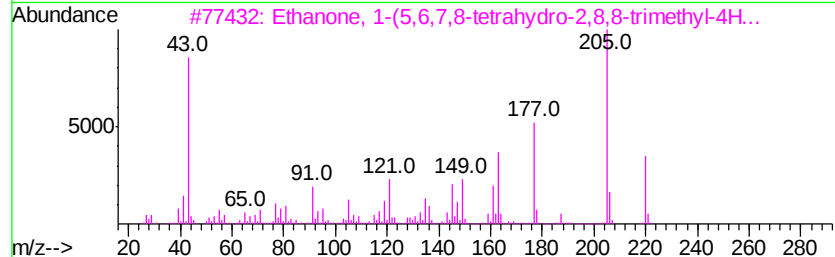
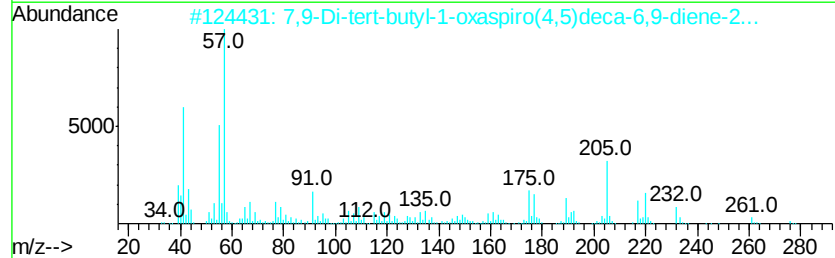
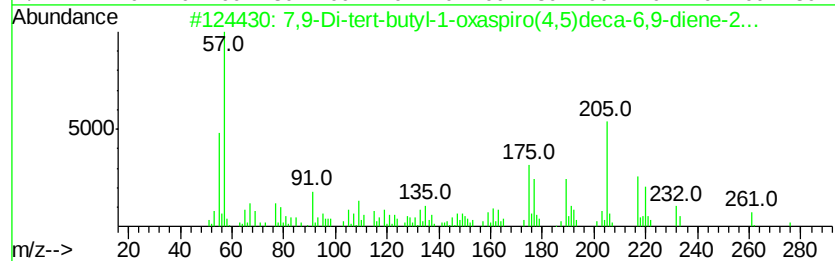
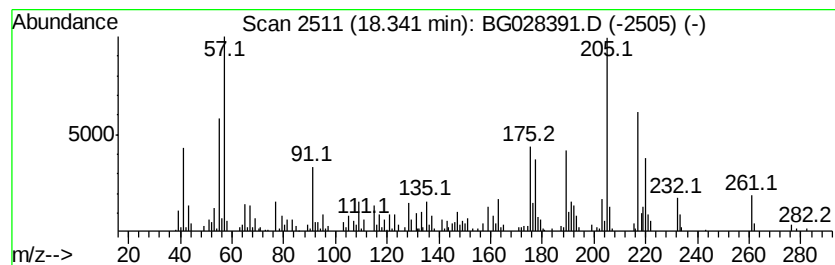
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Quant Title : SVOA CALIBRATION

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

\*\*\*\*\*  
Peak Number 1 7,9-Di-tert-butyl-1-oxaspiro... Concentration Rank 1

| R.T.      | EstConc                                               | Area   | Relative to ISTD | R.T.        |      |
|-----------|-------------------------------------------------------|--------|------------------|-------------|------|
| 18.34     | 4.31 ng/ul                                            | 165186 | Phenanthrene-d10 | 17.70       |      |
| Hit# of 5 | Tentative ID                                          | MW     | MolForm          | CAS#        | Qual |
| 1         | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276    | C17H24O3         | 082304-66-3 | 96   |
| 2         | 7,9-Di-tert-butyl-1-oxaspiro(4,5)deca-6,9-diene-2-one | 276    | C17H24O3         | 082304-66-3 | 93   |
| 3         | Ethanone, 1-(5,6,7,8-tetrahydro-2H-benzopyran-6-yl)-  | 220    | C14H20O2         | 071596-88-8 | 46   |
| 4         | 2-Methyl-4,5-dimethoxycrotonophenone                  | 220    | C13H16O3         | 207233-94-1 | 38   |
| 5         | 2H-1-Benzopyran, 6,7-dimethoxy-2-methyl-              | 220    | C13H16O3         | 000644-06-4 | 38   |



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| TIC Top Hit name     | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|----------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                      |       |         |       |          | #                     | RT    | Resp   | Conc |
| 7,9-Di-tert-butyl... | 18.34 | 4.3     | ng/ul | 165186   | 4                     | 17.70 | 766401 | 20.0 |