

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV032519\  
 Data File : VV009881.D  
 Acq On : 25 Mar 2019 23:35  
 Operator : SY/MD  
 Sample : IBLK  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK37

## Integration Parameters: LSCINT.P

Integrator: RTE  
 Smoothing : OFF  
 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % 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:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032519WMA.M  
 Title : VOC Analysis

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         | 1.209       | 31            | 37          | 48           | rBV      | 17172          | 26974         | 3.69%           | 0.464%        |
| 2         | 1.322       | 66            | 72          | 84           | rVB      | 152481         | 144985        | 19.84%          | 2.493%        |
| 3         | 1.563       | 141           | 147         | 158          | rVB      | 145072         | 175318        | 23.99%          | 3.014%        |
| 4         | 2.126       | 313           | 322         | 333          | rBV      | 360048         | 501049        | 68.56%          | 8.615%        |
| 5         | 2.354       | 389           | 393         | 397          | rBV2     | 1439           | 1172          | 0.16%           | 0.020%        |
| 6         | 2.621       | 473           | 476         | 479          | rBV      | 570            | 508           | 0.07%           | 0.009%        |
| 7         | 2.897       | 559           | 562         | 567          | rVB3     | 1086           | 967           | 0.13%           | 0.017%        |
| 8         | 2.926       | 567           | 571         | 573          | rBV      | 1203           | 941           | 0.13%           | 0.016%        |
| 9         | 2.962       | 579           | 582         | 586          | rBV2     | 902            | 990           | 0.14%           | 0.017%        |
| 10        | 3.084       | 616           | 620         | 622          | rBV      | 589            | 495           | 0.07%           | 0.009%        |
| 11        | 3.206       | 656           | 658         | 664          | rBV      | 722            | 729           | 0.10%           | 0.013%        |
| 12        | 3.434       | 726           | 729         | 731          | rBV      | 811            | 526           | 0.07%           | 0.009%        |
| 13        | 3.486       | 743           | 745         | 750          | rVB      | 1189           | 860           | 0.12%           | 0.015%        |
| 14        | 3.540       | 757           | 762         | 765          | rBV2     | 1496           | 1232          | 0.17%           | 0.021%        |
| 15        | 3.836       | 850           | 854         | 857          | rVB2     | 679            | 540           | 0.07%           | 0.009%        |
| 16        | 3.933       | 872           | 884         | 905          | rBV      | 52515          | 132881        | 18.18%          | 2.285%        |
| 17        | 4.200       | 964           | 967         | 970          | rBV2     | 936            | 590           | 0.08%           | 0.010%        |
| 18        | 4.219       | 970           | 973         | 976          | rBV2     | 929            | 510           | 0.07%           | 0.009%        |
| 19        | 4.402       | 1014          | 1030        | 1050         | rBV      | 117107         | 285121        | 39.01%          | 4.902%        |
| 20        | 4.753       | 1135          | 1139        | 1141         | rBV4     | 1057           | 682           | 0.09%           | 0.012%        |
| 21        | 4.785       | 1146          | 1149        | 1152         | rBV      | 954            | 523           | 0.07%           | 0.009%        |
| 22        | 4.881       | 1175          | 1179        | 1180         | rBV      | 1069           | 662           | 0.09%           | 0.011%        |
| 23        | 5.093       | 1229          | 1245        | 1274         | rBV2     | 287622         | 730816        | 100.00%         | 12.566%       |
| 24        | 5.357       | 1322          | 1327        | 1331         | rBV4     | 1368           | 1280          | 0.18%           | 0.022%        |
| 25        | 5.560       | 1386          | 1390        | 1392         | rBV2     | 1024           | 839           | 0.11%           | 0.014%        |
| 26        | 5.666       | 1408          | 1423        | 1445         | rBV2     | 208974         | 419924        | 57.46%          | 7.220%        |
| 27        | 5.839       | 1474          | 1477        | 1480         | rBV2     | 828            | 727           | 0.10%           | 0.013%        |
| 28        | 5.910       | 1497          | 1499        | 1503         | rVB      | 968            | 510           | 0.07%           | 0.009%        |
| 29        | 5.945       | 1507          | 1510        | 1514         | rBV3     | 1663           | 1521          | 0.21%           | 0.026%        |
| 30        | 6.116       | 1549          | 1563        | 1584         | rBV2     | 168042         | 344351        | 47.12%          | 5.921%        |
| 31        | 6.341       | 1630          | 1633        | 1639         | rBV3     | 708            | 694           | 0.09%           | 0.012%        |
| 32        | 6.396       | 1647          | 1650        | 1654         | rBV2     | 991            | 750           | 0.10%           | 0.013%        |
| 33        | 6.463       | 1668          | 1671        | 1674         | rVB2     | 1043           | 642           | 0.09%           | 0.011%        |
| 34        | 6.486       | 1674          | 1678        | 1680         | rBV3     | 1050           | 760           | 0.10%           | 0.013%        |

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 Peak separation: 5

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 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 6.550  | 1694 | 1698 | 1700 | rBV2 | 826    | 647    | 0.09%  | 0.011% |
| 36 | 6.634  | 1721 | 1724 | 1726 | rBV  | 1159   | 619    | 0.08%  | 0.011% |
| 37 | 6.933  | 1813 | 1817 | 1821 | rBV5 | 1377   | 1183   | 0.16%  | 0.020% |
| 38 | 7.029  | 1834 | 1847 | 1861 | rBV  | 80756  | 143217 | 19.60% | 2.463% |
| 39 | 7.360  | 1937 | 1950 | 1975 | rBV  | 328385 | 580806 | 79.47% | 9.987% |
| 40 | 7.662  | 2034 | 2044 | 2061 | rVB2 | 54219  | 93453  | 12.79% | 1.607% |
| 41 | 7.926  | 2124 | 2126 | 2129 | rVB2 | 1218   | 536    | 0.07%  | 0.009% |
| 42 | 7.984  | 2140 | 2144 | 2148 | rBV4 | 1704   | 1592   | 0.22%  | 0.027% |
| 43 | 8.096  | 2176 | 2179 | 2180 | rBV2 | 1211   | 669    | 0.09%  | 0.012% |
| 44 | 8.135  | 2181 | 2191 | 2218 | rVV  | 160181 | 294410 | 40.29% | 5.062% |
| 45 | 8.338  | 2248 | 2254 | 2256 | rBV4 | 1352   | 1212   | 0.17%  | 0.021% |
| 46 | 8.537  | 2312 | 2316 | 2317 | rBV3 | 1013   | 816    | 0.11%  | 0.014% |
| 47 | 8.846  | 2408 | 2412 | 2415 | rVB  | 1150   | 914    | 0.13%  | 0.016% |
| 48 | 8.897  | 2415 | 2428 | 2447 | rBV  | 328247 | 557686 | 76.31% | 9.589% |
| 49 | 9.074  | 2481 | 2483 | 2487 | rBV  | 1165   | 770    | 0.11%  | 0.013% |
| 50 | 9.395  | 2580 | 2583 | 2587 | rBV  | 936    | 624    | 0.09%  | 0.011% |
| 51 | 9.514  | 2617 | 2620 | 2623 | rBV2 | 789    | 596    | 0.08%  | 0.010% |
| 52 | 9.637  | 2654 | 2658 | 2661 | rBV2 | 1083   | 937    | 0.13%  | 0.016% |
| 53 | 9.932  | 2745 | 2750 | 2751 | rBV  | 782    | 502    | 0.07%  | 0.009% |
| 54 | 10.051 | 2783 | 2787 | 2790 | rBV  | 1418   | 1267   | 0.17%  | 0.022% |
| 55 | 10.096 | 2798 | 2801 | 2805 | rVB  | 894    | 587    | 0.08%  | 0.010% |
| 56 | 10.264 | 2841 | 2853 | 2868 | rBV  | 229433 | 361842 | 49.51% | 6.222% |
| 57 | 10.373 | 2883 | 2887 | 2891 | rBV2 | 1091   | 884    | 0.12%  | 0.015% |
| 58 | 10.395 | 2891 | 2894 | 2898 | rVV3 | 651    | 510    | 0.07%  | 0.009% |
| 59 | 10.575 | 2947 | 2950 | 2954 | rVB  | 1019   | 593    | 0.08%  | 0.010% |
| 60 | 10.884 | 3042 | 3046 | 3049 | rBV2 | 929    | 623    | 0.09%  | 0.011% |
| 61 | 10.955 | 3065 | 3068 | 3070 | rBV  | 886    | 604    | 0.08%  | 0.010% |
| 62 | 11.035 | 3089 | 3093 | 3095 | rBV2 | 784    | 535    | 0.07%  | 0.009% |
| 63 | 11.125 | 3118 | 3121 | 3123 | rBV  | 847    | 598    | 0.08%  | 0.010% |
| 64 | 11.235 | 3153 | 3155 | 3160 | rVB  | 998    | 656    | 0.09%  | 0.011% |
| 65 | 11.296 | 3162 | 3174 | 3191 | rBV  | 268415 | 446577 | 61.11% | 7.679% |
| 66 | 11.595 | 3257 | 3267 | 3269 | rBV2 | 1187   | 1595   | 0.22%  | 0.027% |
| 67 | 11.617 | 3269 | 3274 | 3280 | rVV4 | 1263   | 1865   | 0.26%  | 0.032% |
| 68 | 11.675 | 3280 | 3292 | 3313 | rVV  | 307324 | 504939 | 69.09% | 8.682% |
| 69 | 11.826 | 3336 | 3339 | 3344 | rBV3 | 987    | 1004   | 0.14%  | 0.017% |
| 70 | 11.932 | 3368 | 3372 | 3374 | rBV2 | 1099   | 807    | 0.11%  | 0.014% |
| 71 | 12.170 | 3441 | 3446 | 3452 | rBV2 | 1197   | 1395   | 0.19%  | 0.024% |

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 Start Thrs: 0.2  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032519WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |      |      |       |        |
|-----|--------|------|------|------|------|------|------|-------|--------|
| 72  | 12.199 | 3452 | 3455 | 3458 | rBV  | 958  | 749  | 0.10% | 0.013% |
| 73  | 12.276 | 3475 | 3479 | 3480 | rBV3 | 640  | 495  | 0.07% | 0.009% |
| 74  | 12.360 | 3502 | 3505 | 3509 | rBV2 | 773  | 755  | 0.10% | 0.013% |
| 75  | 12.627 | 3586 | 3588 | 3593 | rVB3 | 560  | 502  | 0.07% | 0.009% |
| 76  | 12.653 | 3593 | 3596 | 3599 | rVB2 | 902  | 499  | 0.07% | 0.009% |
| 77  | 12.682 | 3601 | 3605 | 3608 | rBV2 | 929  | 864  | 0.12% | 0.015% |
| 78  | 12.736 | 3619 | 3622 | 3630 | rVB  | 1305 | 1438 | 0.20% | 0.025% |
| 79  | 12.775 | 3630 | 3634 | 3635 | rBV  | 866  | 618  | 0.08% | 0.011% |
| 80  | 13.038 | 3711 | 3716 | 3718 | rBV3 | 888  | 817  | 0.11% | 0.014% |
| 81  | 13.173 | 3754 | 3758 | 3762 | rBV2 | 939  | 855  | 0.12% | 0.015% |
| 82  | 13.315 | 3796 | 3802 | 3808 | rBV3 | 1918 | 2704 | 0.37% | 0.046% |
| 83  | 13.591 | 3884 | 3888 | 3890 | rBV  | 944  | 635  | 0.09% | 0.011% |
| 84  | 13.681 | 3911 | 3916 | 3921 | rBV3 | 1127 | 1081 | 0.15% | 0.019% |
| 85  | 13.704 | 3921 | 3923 | 3928 | rVV2 | 1047 | 779  | 0.11% | 0.013% |
| 86  | 13.726 | 3928 | 3930 | 3936 | rVB  | 1146 | 1169 | 0.16% | 0.020% |
| 87  | 13.897 | 3978 | 3983 | 3987 | rBV2 | 1376 | 1251 | 0.17% | 0.022% |
| 88  | 14.144 | 4055 | 4060 | 4063 | rBV2 | 783  | 803  | 0.11% | 0.014% |
| 89  | 14.312 | 4109 | 4112 | 4116 | rBV2 | 864  | 636  | 0.09% | 0.011% |
| 90  | 14.463 | 4156 | 4159 | 4164 | rBV7 | 1155 | 985  | 0.13% | 0.017% |
| 91  | 14.611 | 4201 | 4205 | 4208 | rBV2 | 875  | 848  | 0.12% | 0.015% |
| 92  | 14.656 | 4217 | 4219 | 4223 | rVB2 | 934  | 525  | 0.07% | 0.009% |
| 93  | 14.829 | 4269 | 4273 | 4278 | rBV4 | 980  | 809  | 0.11% | 0.014% |
| 94  | 14.858 | 4279 | 4282 | 4285 | rBV2 | 943  | 662  | 0.09% | 0.011% |
| 95  | 14.997 | 4322 | 4325 | 4328 | rBV  | 948  | 692  | 0.09% | 0.012% |
| 96  | 15.042 | 4334 | 4339 | 4341 | rBV3 | 922  | 755  | 0.10% | 0.013% |
| 97  | 15.196 | 4385 | 4387 | 4393 | rVB2 | 1049 | 844  | 0.12% | 0.015% |
| 98  | 15.714 | 4543 | 4548 | 4553 | rBV4 | 1263 | 1901 | 0.26% | 0.033% |
| 99  | 15.855 | 4588 | 4592 | 4596 | rBV3 | 1246 | 1291 | 0.18% | 0.022% |
| 100 | 16.379 | 4752 | 4755 | 4756 | rBV3 | 1215 | 747  | 0.10% | 0.013% |

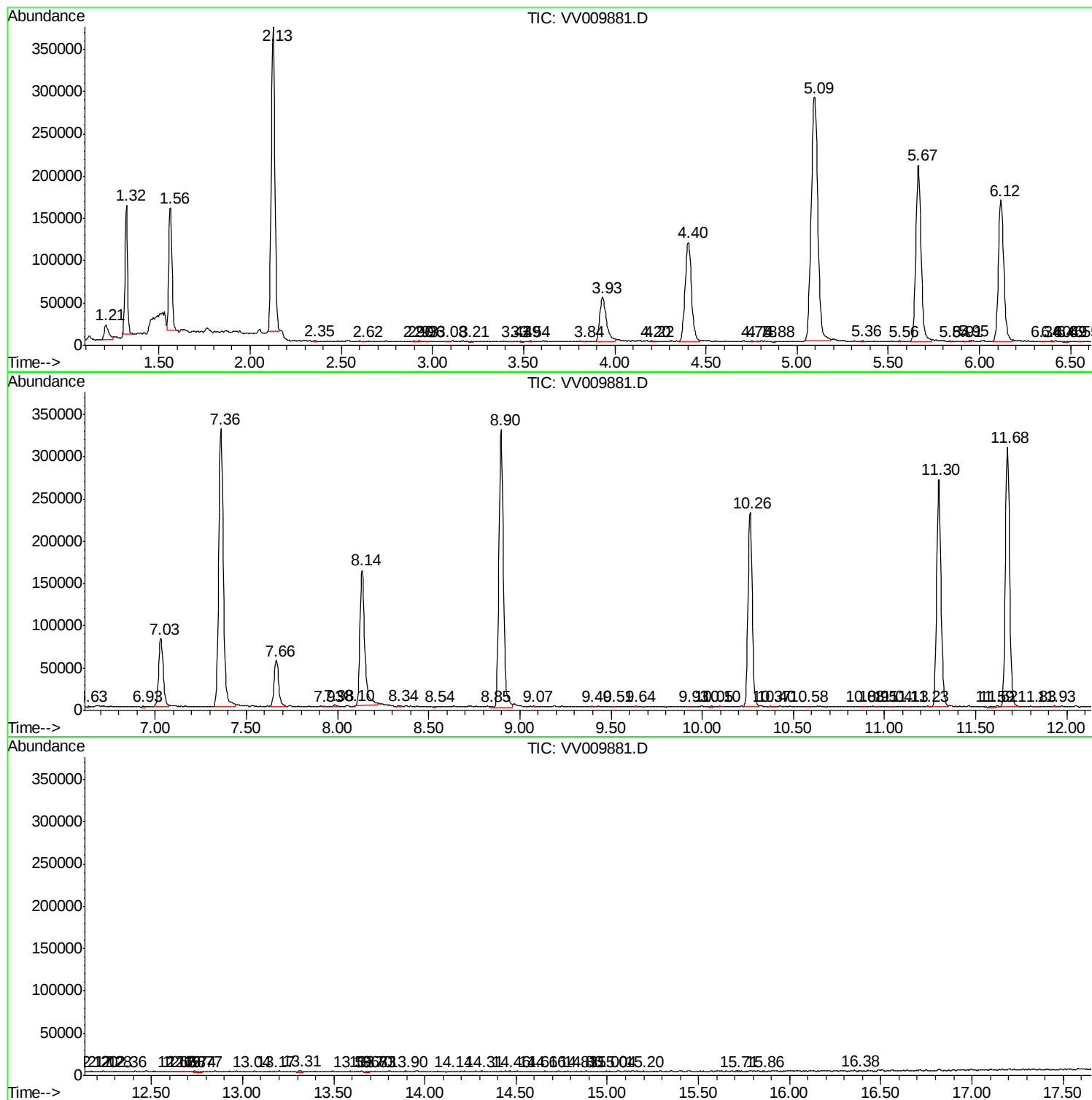
Sum of corrected areas: 5815848

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032519WMA.M  
Quant Title : VOC Analysis

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



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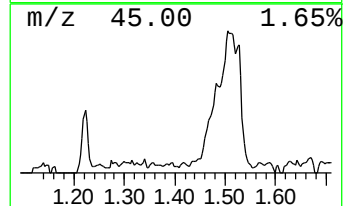
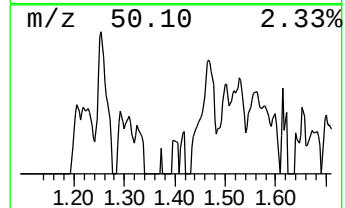
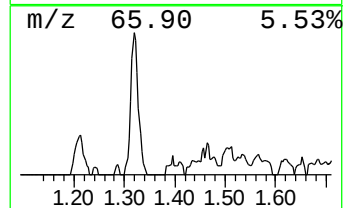
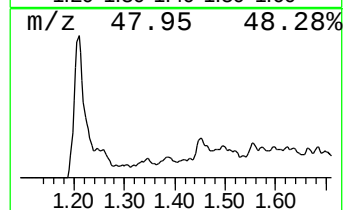
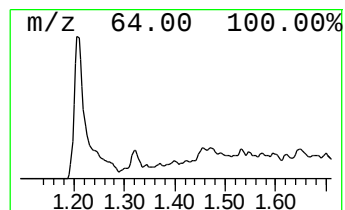
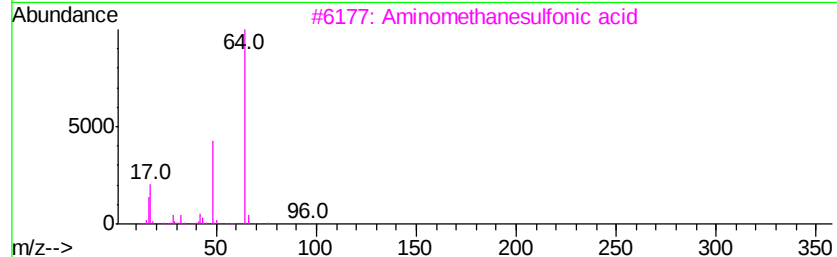
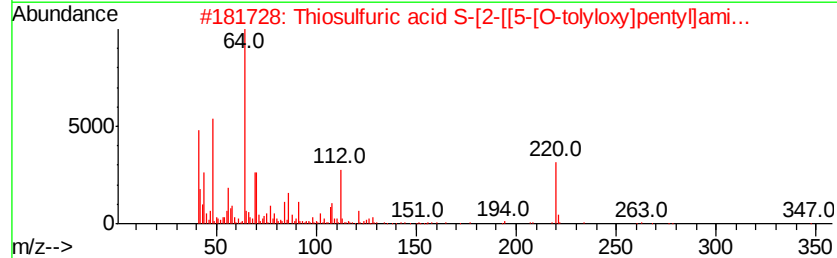
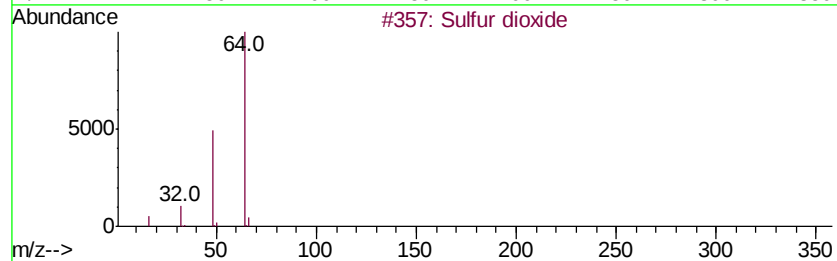
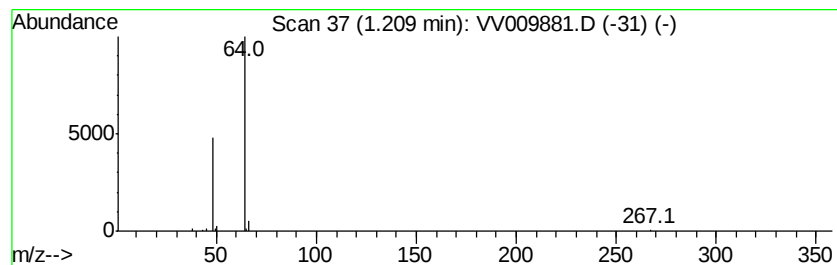
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM032519WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Sulfur dioxide Concentration Rank 2

| R.T.    | EstConc                            | Area            | Relative to ISTD    | R.T.      |
|---------|------------------------------------|-----------------|---------------------|-----------|
| 1.21    | 3.21 ug/L                          | 26974           | 1,4-Difluorobenzene | 5.67      |
| Hit# of | 5                                  | Tentative ID    | MW MolForm          | CAS# Qual |
| 1       | Sulfur dioxide                     | 64 02S          | 007446-09-5         | 90        |
| 2       | Thiosulfuric acid S-[2-[5-[O-to... | 347 C15H25N04S2 | 038920-47-7         | 64        |
| 3       | Aminomethanesulfonic acid          | 111 CH5N03S     | 013881-91-9         | 64        |
| 4       | Aminomethanesulfonic acid          | 111 CH5N03S     | 013881-91-9         | 64        |
| 5       | Sulfur dioxide                     | 64 02S          | 007446-09-5         | 9         |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| Sulfur dioxide   | 1.21 | 3.2     | ug/L  | 26974    | 1                     | 5.67 | 419924 | 50.0 |