

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061019\  
 Data File : VU032584.D  
 Acq On : 10 Jun 2019 22:42  
 Operator : JC/SP  
 Sample : K3277-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 33 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8C5

## 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\_U\METHOD\SOMULM060619WMA.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         | 1.180       | 24            | 28          | 31           | rBV2     | 4652           | 4336          | 0.58%           | 0.070%        |
| 2         | 1.338       | 61            | 77          | 82           | rBV2     | 51844          | 153235        | 20.46%          | 2.482%        |
| 3         | 1.396       | 90            | 95          | 106          | rVB      | 98261          | 100235        | 13.38%          | 1.624%        |
| 4         | 1.675       | 177           | 182         | 192          | rVB      | 73026          | 86972         | 11.61%          | 1.409%        |
| 5         | 2.267       | 356           | 366         | 377          | rVB      | 151178         | 226837        | 30.29%          | 3.674%        |
| 6         | 2.473       | 424           | 430         | 441          | rVB2     | 5469           | 8285          | 1.11%           | 0.134%        |
| 7         | 3.209       | 656           | 659         | 665          | rVB2     | 601            | 442           | 0.06%           | 0.007%        |
| 8         | 3.457       | 732           | 736         | 739          | rVV2     | 194            | 162           | 0.02%           | 0.003%        |
| 9         | 3.646       | 792           | 795         | 802          | rVV2     | 241            | 276           | 0.04%           | 0.004%        |
| 10        | 3.695       | 806           | 810         | 813          | rBV      | 200            | 170           | 0.02%           | 0.003%        |
| 11        | 3.765       | 829           | 832         | 839          | rVB      | 217            | 201           | 0.03%           | 0.003%        |
| 12        | 3.907       | 871           | 876         | 879          | rBV2     | 216            | 181           | 0.02%           | 0.003%        |
| 13        | 3.949       | 886           | 889         | 898          | rVV2     | 167            | 243           | 0.03%           | 0.004%        |
| 14        | 4.045       | 916           | 919         | 925          | rVB2     | 232            | 189           | 0.03%           | 0.003%        |
| 15        | 4.074       | 925           | 928         | 930          | rBV2     | 231            | 172           | 0.02%           | 0.003%        |
| 16        | 4.167       | 947           | 957         | 1000         | rVV      | 59110          | 159252        | 21.26%          | 2.580%        |
| 17        | 4.566       | 1075          | 1081        | 1084         | rVV2     | 286            | 303           | 0.04%           | 0.005%        |
| 18        | 4.640       | 1088          | 1104        | 1135         | rVV      | 108615         | 256117        | 34.20%          | 4.149%        |
| 19        | 4.884       | 1175          | 1180        | 1185         | rBV3     | 410            | 653           | 0.09%           | 0.011%        |
| 20        | 4.993       | 1211          | 1214        | 1219         | rVB2     | 221            | 200           | 0.03%           | 0.003%        |
| 21        | 5.019       | 1219          | 1222        | 1228         | rBV2     | 168            | 190           | 0.03%           | 0.003%        |
| 22        | 5.157       | 1260          | 1265        | 1274         | rBV      | 248            | 413           | 0.06%           | 0.007%        |
| 23        | 5.209       | 1278          | 1281        | 1287         | rVB      | 218            | 152           | 0.02%           | 0.002%        |
| 24        | 5.334       | 1298          | 1320        | 1346         | rBV2     | 226116         | 653722        | 87.29%          | 10.589%       |
| 25        | 5.511       | 1373          | 1375        | 1378         | rVB2     | 428            | 205           | 0.03%           | 0.003%        |
| 26        | 5.550       | 1378          | 1387        | 1390         | rBV2     | 143            | 240           | 0.03%           | 0.004%        |
| 27        | 5.592       | 1394          | 1400        | 1405         | rBV3     | 191            | 292           | 0.04%           | 0.005%        |
| 28        | 5.620       | 1406          | 1409        | 1411         | rVV      | 218            | 158           | 0.02%           | 0.003%        |
| 29        | 5.698       | 1430          | 1433        | 1438         | rVB3     | 304            | 287           | 0.04%           | 0.005%        |
| 30        | 5.784       | 1456          | 1460        | 1464         | rVB      | 246            | 177           | 0.02%           | 0.003%        |
| 31        | 5.881       | 1477          | 1490        | 1517         | rBV      | 221998         | 433631        | 57.90%          | 7.024%        |
| 32        | 6.045       | 1538          | 1541        | 1545         | rVB3     | 213            | 150           | 0.02%           | 0.002%        |
| 33        | 6.067       | 1545          | 1548        | 1552         | rBV3     | 156            | 158           | 0.02%           | 0.003%        |
| 34        | 6.180       | 1569          | 1583        | 1610         | rBV      | 387564         | 748947        | 100.00%         | 12.132%       |

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 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 6.325  | 1615 | 1628 | 1650 | rVB  | 145082 | 289413 | 38.64% | 4.688% |
| 36 | 6.440  | 1662 | 1664 | 1668 | rBV4 | 186    | 150    | 0.02%  | 0.002% |
| 37 | 6.463  | 1668 | 1671 | 1673 | rVB3 | 306    | 202    | 0.03%  | 0.003% |
| 38 | 6.585  | 1706 | 1709 | 1713 | rVB  | 254    | 150    | 0.02%  | 0.002% |
| 39 | 6.614  | 1713 | 1718 | 1721 | rBV2 | 195    | 201    | 0.03%  | 0.003% |
| 40 | 6.656  | 1728 | 1731 | 1735 | rVB  | 231    | 177    | 0.02%  | 0.003% |
| 41 | 6.768  | 1763 | 1766 | 1771 | rBV2 | 166    | 159    | 0.02%  | 0.003% |
| 42 | 6.813  | 1775 | 1780 | 1787 | rBV2 | 202    | 313    | 0.04%  | 0.005% |
| 43 | 6.849  | 1787 | 1791 | 1797 | rVB2 | 209    | 244    | 0.03%  | 0.004% |
| 44 | 6.891  | 1800 | 1804 | 1807 | rBV2 | 274    | 181    | 0.02%  | 0.003% |
| 45 | 6.913  | 1807 | 1811 | 1818 | rBV2 | 166    | 164    | 0.02%  | 0.003% |
| 46 | 6.958  | 1822 | 1825 | 1830 | rBV2 | 165    | 154    | 0.02%  | 0.002% |
| 47 | 7.061  | 1851 | 1857 | 1864 | rBV2 | 209    | 311    | 0.04%  | 0.005% |
| 48 | 7.225  | 1892 | 1908 | 1930 | rBV  | 79312  | 144832 | 19.34% | 2.346% |
| 49 | 7.382  | 1955 | 1957 | 1962 | rVB2 | 329    | 235    | 0.03%  | 0.004% |
| 50 | 7.431  | 1970 | 1972 | 1976 | rVB2 | 273    | 162    | 0.02%  | 0.003% |
| 51 | 7.559  | 2000 | 2012 | 2031 | rBV  | 307611 | 533635 | 71.25% | 8.644% |
| 52 | 7.807  | 2087 | 2089 | 2091 | rBV  | 428    | 195    | 0.03%  | 0.003% |
| 53 | 7.845  | 2091 | 2101 | 2118 | rBV  | 53174  | 91998  | 12.28% | 1.490% |
| 54 | 8.173  | 2197 | 2203 | 2206 | rBV3 | 329    | 320    | 0.04%  | 0.005% |
| 55 | 8.228  | 2214 | 2220 | 2225 | rVB5 | 611    | 621    | 0.08%  | 0.010% |
| 56 | 8.305  | 2234 | 2244 | 2282 | rBV  | 182884 | 348154 | 46.49% | 5.639% |
| 57 | 8.582  | 2328 | 2330 | 2336 | rVB2 | 256    | 180    | 0.02%  | 0.003% |
| 58 | 8.652  | 2348 | 2352 | 2355 | rVB2 | 247    | 183    | 0.02%  | 0.003% |
| 59 | 8.678  | 2355 | 2360 | 2362 | rBV  | 247    | 187    | 0.02%  | 0.003% |
| 60 | 8.714  | 2367 | 2371 | 2373 | rBV2 | 196    | 149    | 0.02%  | 0.002% |
| 61 | 8.874  | 2416 | 2421 | 2423 | rBV2 | 216    | 205    | 0.03%  | 0.003% |
| 62 | 8.980  | 2448 | 2454 | 2458 | rBV2 | 208    | 243    | 0.03%  | 0.004% |
| 63 | 9.083  | 2473 | 2486 | 2513 | rBV  | 316801 | 532298 | 71.07% | 8.622% |
| 64 | 9.382  | 2575 | 2579 | 2581 | rBV2 | 224    | 185    | 0.02%  | 0.003% |
| 65 | 9.553  | 2629 | 2632 | 2637 | rVB2 | 187    | 148    | 0.02%  | 0.002% |
| 66 | 9.726  | 2681 | 2686 | 2690 | rVB  | 214    | 209    | 0.03%  | 0.003% |
| 67 | 9.791  | 2703 | 2706 | 2713 | rVB2 | 275    | 391    | 0.05%  | 0.006% |
| 68 | 9.926  | 2743 | 2748 | 2753 | rBV2 | 162    | 202    | 0.03%  | 0.003% |
| 69 | 10.019 | 2773 | 2777 | 2780 | rVB2 | 186    | 156    | 0.02%  | 0.003% |
| 70 | 10.254 | 2847 | 2850 | 2852 | rVV2 | 245    | 162    | 0.02%  | 0.003% |
| 71 | 10.328 | 2871 | 2873 | 2878 | rVB2 | 205    | 185    | 0.02%  | 0.003% |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 10.427 | 2889 | 2904 | 2923 | rBV  | 206800 | 335607 | 44.81% | 5.436% |
| 73  | 10.601 | 2954 | 2958 | 2968 | rBV3 | 440    | 619    | 0.08%  | 0.010% |
| 74  | 10.752 | 3002 | 3005 | 3010 | rBV2 | 175    | 166    | 0.02%  | 0.003% |
| 75  | 10.778 | 3010 | 3013 | 3018 | rVB2 | 229    | 155    | 0.02%  | 0.003% |
| 76  | 10.887 | 3042 | 3047 | 3050 | rBV2 | 287    | 331    | 0.04%  | 0.005% |
| 77  | 10.929 | 3056 | 3060 | 3062 | rBV2 | 244    | 217    | 0.03%  | 0.004% |
| 78  | 10.961 | 3067 | 3070 | 3073 | rVB  | 241    | 157    | 0.02%  | 0.003% |
| 79  | 10.984 | 3073 | 3077 | 3082 | rBV  | 305    | 312    | 0.04%  | 0.005% |
| 80  | 11.048 | 3090 | 3097 | 3102 | rBV2 | 341    | 461    | 0.06%  | 0.007% |
| 81  | 11.479 | 3218 | 3231 | 3255 | rBV  | 329571 | 534343 | 71.35% | 8.655% |
| 82  | 11.855 | 3333 | 3348 | 3377 | rBV  | 308085 | 511903 | 68.35% | 8.292% |
| 83  | 12.115 | 3426 | 3429 | 3433 | rBV2 | 390    | 391    | 0.05%  | 0.006% |
| 84  | 12.186 | 3445 | 3451 | 3454 | rBV3 | 381    | 357    | 0.05%  | 0.006% |
| 85  | 12.228 | 3459 | 3464 | 3466 | rBV2 | 211    | 179    | 0.02%  | 0.003% |
| 86  | 12.308 | 3485 | 3489 | 3491 | rBV2 | 209    | 156    | 0.02%  | 0.003% |
| 87  | 12.321 | 3491 | 3493 | 3498 | rVB  | 230    | 173    | 0.02%  | 0.003% |
| 88  | 12.418 | 3517 | 3523 | 3528 | rVV2 | 248    | 325    | 0.04%  | 0.005% |
| 89  | 12.556 | 3562 | 3566 | 3571 | rBV2 | 181    | 187    | 0.02%  | 0.003% |
| 90  | 12.672 | 3598 | 3602 | 3605 | rBV2 | 293    | 276    | 0.04%  | 0.004% |
| 91  | 12.720 | 3613 | 3617 | 3621 | rBV  | 232    | 231    | 0.03%  | 0.004% |
| 92  | 12.813 | 3640 | 3646 | 3649 | rBV2 | 308    | 295    | 0.04%  | 0.005% |
| 93  | 12.974 | 3692 | 3696 | 3699 | rBV2 | 245    | 192    | 0.03%  | 0.003% |
| 94  | 13.447 | 3840 | 3843 | 3847 | rBV3 | 296    | 216    | 0.03%  | 0.003% |
| 95  | 13.620 | 3893 | 3897 | 3900 | rVB2 | 286    | 215    | 0.03%  | 0.003% |
| 96  | 13.890 | 3978 | 3981 | 3986 | rBV3 | 200    | 207    | 0.03%  | 0.003% |
| 97  | 13.932 | 3990 | 3994 | 3997 | rBV3 | 398    | 395    | 0.05%  | 0.006% |
| 98  | 14.350 | 4120 | 4124 | 4127 | rBV3 | 242    | 241    | 0.03%  | 0.004% |
| 99  | 14.398 | 4134 | 4139 | 4141 | rBV2 | 364    | 402    | 0.05%  | 0.007% |
| 100 | 14.520 | 4171 | 4177 | 4182 | rBV3 | 417    | 595    | 0.08%  | 0.010% |

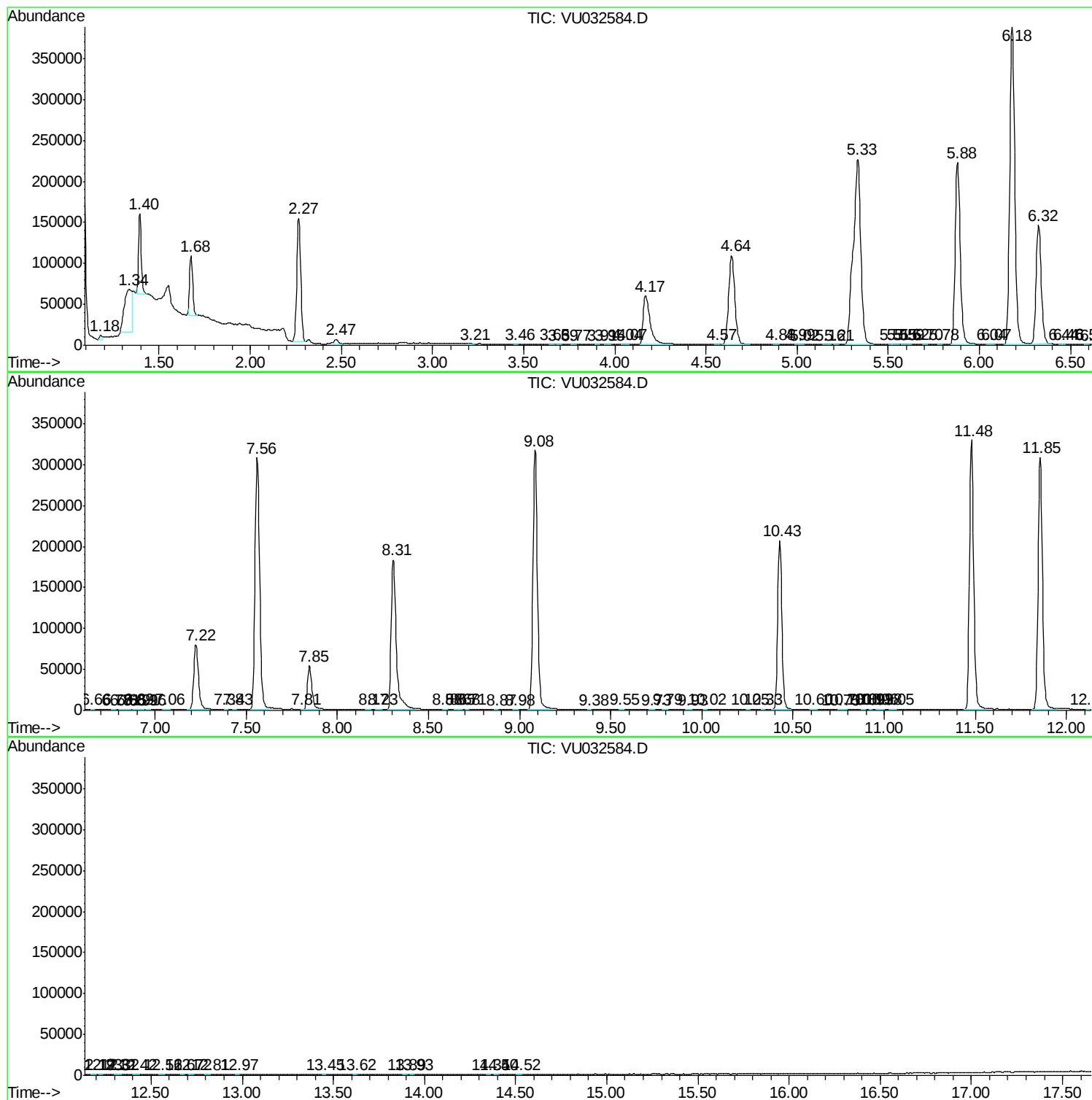
Sum of corrected areas: 6173541

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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



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Quant Title : VOC Analysis

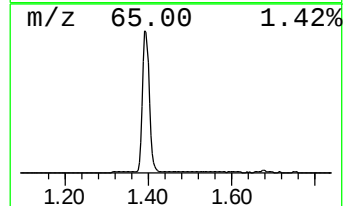
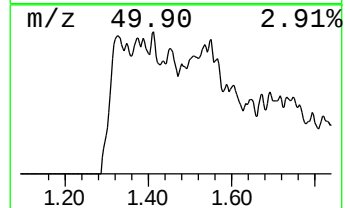
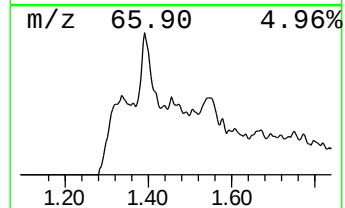
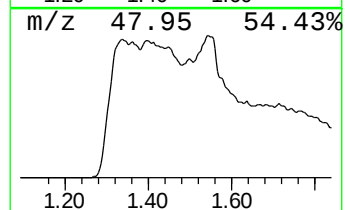
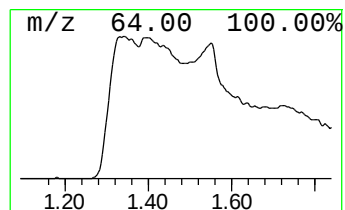
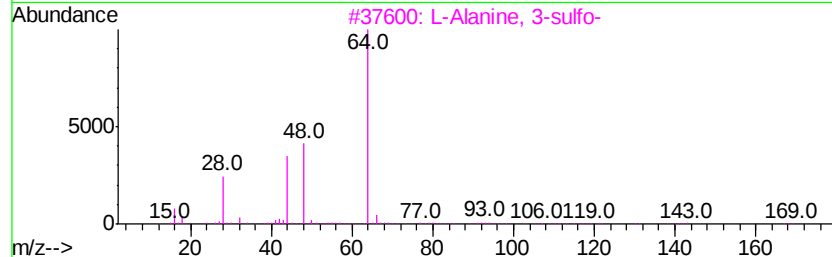
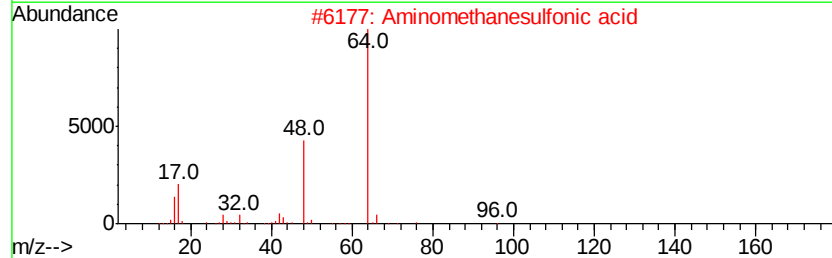
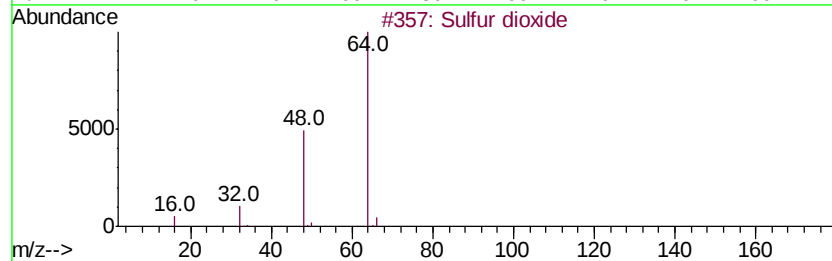
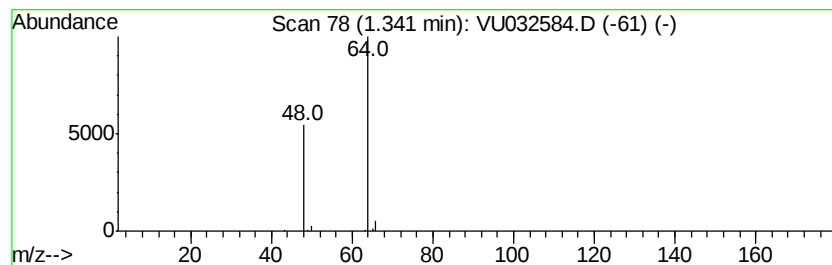
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Sulfur dioxide Concentration Rank 1

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 1.34 | 17.67 ug/L | 153235 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID              | MW  | MolForm  | CAS#        | Qual |
|------|----|---------------------------|-----|----------|-------------|------|
| 1    | 5  | Sulfur dioxide            | 64  | O2S      | 007446-09-5 | 83   |
| 2    |    | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 74   |
| 3    |    | L-Alanine, 3-sulfo-       | 169 | C3H7NO5S | 000498-40-8 | 9    |
| 4    |    | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |
| 5    |    | Aminomethanesulfonic acid | 111 | CH5NO3S  | 013881-91-9 | 9    |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                  |      |         |       |          | #                     | RT   | Resp   | Conc |
| Sulfur dioxide   | 1.34 | 17.7    | ug/L  | 153235   | 1                     | 5.88 | 433631 | 50.0 |