

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV121418\  
 Data File : VV008965.D  
 Acq On : 15 Dec 2018 05:27  
 Operator : SY/MD  
 Sample : J6383-01  
 Misc : 5.0 mL/MSVOA V/WATER  
 ALS Vial : 44 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0934

## 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\SOMVLM121318WMA.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         | 1.319       | 65            | 71          | 83           | rVB      | 75194          | 79186         | 11.02%          | 1.453%        |
| 2         | 1.563       | 141           | 147         | 159          | rVB      | 60737          | 68502         | 9.53%           | 1.257%        |
| 3         | 2.126       | 313           | 322         | 334          | rBV      | 194472         | 272685        | 37.93%          | 5.004%        |
| 4         | 2.319       | 370           | 382         | 406          | rBV2     | 20299          | 54280         | 7.55%           | 0.996%        |
| 5         | 2.656       | 475           | 487         | 493          | rBV2     | 3498           | 7359          | 1.02%           | 0.135%        |
| 6         | 2.807       | 532           | 534         | 537          | rBV      | 134            | 85            | 0.01%           | 0.002%        |
| 7         | 3.000       | 581           | 594         | 603          | rBV4     | 860            | 1895          | 0.26%           | 0.035%        |
| 8         | 3.090       | 619           | 622         | 626          | rVB      | 173            | 93            | 0.01%           | 0.002%        |
| 9         | 3.129       | 631           | 634         | 638          | rBV2     | 209            | 181           | 0.03%           | 0.003%        |
| 10        | 3.229       | 662           | 665         | 670          | rVB2     | 230            | 166           | 0.02%           | 0.003%        |
| 11        | 3.367       | 705           | 708         | 710          | rBV      | 168            | 97            | 0.01%           | 0.002%        |
| 12        | 3.396       | 714           | 717         | 720          | rBV      | 187            | 172           | 0.02%           | 0.003%        |
| 13        | 3.502       | 748           | 750         | 752          | rBV2     | 170            | 90            | 0.01%           | 0.002%        |
| 14        | 3.547       | 760           | 764         | 766          | rBV      | 277            | 204           | 0.03%           | 0.004%        |
| 15        | 3.576       | 771           | 773         | 777          | rBV      | 164            | 167           | 0.02%           | 0.003%        |
| 16        | 3.595       | 777           | 779         | 781          | rBV      | 163            | 106           | 0.01%           | 0.002%        |
| 17        | 3.663       | 797           | 800         | 802          | rBV      | 131            | 119           | 0.02%           | 0.002%        |
| 18        | 3.698       | 808           | 811         | 813          | rBV2     | 179            | 138           | 0.02%           | 0.003%        |
| 19        | 3.817       | 844           | 848         | 852          | rBV2     | 203            | 259           | 0.04%           | 0.005%        |
| 20        | 3.930       | 867           | 883         | 919          | rBV      | 54799          | 153626        | 21.37%          | 2.819%        |
| 21        | 4.286       | 988           | 994         | 997          | rBV2     | 219            | 265           | 0.04%           | 0.005%        |
| 22        | 4.319       | 1003          | 1004        | 1006         | rBV      | 224            | 123           | 0.02%           | 0.002%        |
| 23        | 4.402       | 1013          | 1030        | 1056         | rBV      | 115380         | 284882        | 39.63%          | 5.228%        |
| 24        | 4.569       | 1077          | 1082        | 1084         | rBV2     | 264            | 183           | 0.03%           | 0.003%        |
| 25        | 4.592       | 1087          | 1089        | 1091         | rBV      | 162            | 111           | 0.02%           | 0.002%        |
| 26        | 4.801       | 1152          | 1154        | 1156         | rVB      | 244            | 98            | 0.01%           | 0.002%        |
| 27        | 4.823       | 1157          | 1161        | 1164         | rBB      | 308            | 246           | 0.03%           | 0.005%        |
| 28        | 4.852       | 1165          | 1170        | 1171         | rBV      | 359            | 239           | 0.03%           | 0.004%        |
| 29        | 4.894       | 1180          | 1183        | 1185         | rBV      | 172            | 120           | 0.02%           | 0.002%        |
| 30        | 4.933       | 1193          | 1195        | 1197         | rBV      | 132            | 73            | 0.01%           | 0.001%        |
| 31        | 5.016       | 1219          | 1221        | 1223         | rBV      | 257            | 126           | 0.02%           | 0.002%        |
| 32        | 5.097       | 1226          | 1246        | 1276         | rBV2     | 285295         | 718825        | 100.00%         | 13.192%       |
| 33        | 5.418       | 1343          | 1346        | 1350         | rBV2     | 181            | 139           | 0.02%           | 0.003%        |
| 34        | 5.447       | 1350          | 1355        | 1356         | rBV      | 257            | 158           | 0.02%           | 0.003%        |

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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\SOMVLM121318WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |        |         |
|----|-------|------|------|------|------|--------|--------|--------|---------|
| 35 | 5.486 | 1363 | 1367 | 1370 | rBV2 | 179    | 205    | 0.03%  | 0.004%  |
| 36 | 5.518 | 1375 | 1377 | 1380 | rVB2 | 253    | 123    | 0.02%  | 0.002%  |
| 37 | 5.544 | 1380 | 1385 | 1387 | rBV  | 176    | 169    | 0.02%  | 0.003%  |
| 38 | 5.608 | 1402 | 1405 | 1406 | rBV2 | 256    | 126    | 0.02%  | 0.002%  |
| 39 | 5.666 | 1407 | 1423 | 1451 | rBV  | 230410 | 457065 | 63.59% | 8.388%  |
| 40 | 5.907 | 1494 | 1498 | 1499 | rBV  | 196    | 161    | 0.02%  | 0.003%  |
| 41 | 5.949 | 1499 | 1511 | 1526 | rVB2 | 25196  | 50315  | 7.00%  | 0.923%  |
| 42 | 6.119 | 1550 | 1564 | 1581 | rBV  | 156317 | 314695 | 43.78% | 5.775%  |
| 43 | 6.290 | 1614 | 1617 | 1619 | rBV  | 176    | 129    | 0.02%  | 0.002%  |
| 44 | 6.409 | 1652 | 1654 | 1656 | rBV  | 134    | 74     | 0.01%  | 0.001%  |
| 45 | 6.444 | 1662 | 1665 | 1670 | rVB2 | 183    | 114    | 0.02%  | 0.002%  |
| 46 | 6.515 | 1684 | 1687 | 1690 | rVB  | 231    | 160    | 0.02%  | 0.003%  |
| 47 | 6.534 | 1691 | 1693 | 1695 | rVB  | 275    | 146    | 0.02%  | 0.003%  |
| 48 | 6.550 | 1695 | 1698 | 1700 | rBV  | 269    | 200    | 0.03%  | 0.004%  |
| 49 | 6.592 | 1707 | 1711 | 1714 | rVB  | 149    | 123    | 0.02%  | 0.002%  |
| 50 | 6.618 | 1714 | 1719 | 1723 | rBV3 | 845    | 859    | 0.12%  | 0.016%  |
| 51 | 6.643 | 1726 | 1727 | 1731 | rVB  | 245    | 113    | 0.02%  | 0.002%  |
| 52 | 6.724 | 1749 | 1752 | 1754 | rBV  | 224    | 99     | 0.01%  | 0.002%  |
| 53 | 6.759 | 1761 | 1763 | 1767 | rBB  | 171    | 103    | 0.01%  | 0.002%  |
| 54 | 6.814 | 1778 | 1780 | 1783 | rVB  | 216    | 106    | 0.01%  | 0.002%  |
| 55 | 6.833 | 1783 | 1786 | 1788 | rBV  | 159    | 109    | 0.02%  | 0.002%  |
| 56 | 6.852 | 1790 | 1792 | 1794 | rVV  | 216    | 95     | 0.01%  | 0.002%  |
| 57 | 6.900 | 1803 | 1807 | 1809 | rBV  | 173    | 164    | 0.02%  | 0.003%  |
| 58 | 6.933 | 1815 | 1817 | 1819 | rBV  | 180    | 126    | 0.02%  | 0.002%  |
| 59 | 7.032 | 1833 | 1848 | 1865 | rBV  | 86414  | 153146 | 21.31% | 2.811%  |
| 60 | 7.187 | 1885 | 1896 | 1904 | rBV5 | 3910   | 7134   | 0.99%  | 0.131%  |
| 61 | 7.267 | 1917 | 1921 | 1923 | rBV2 | 202    | 195    | 0.03%  | 0.004%  |
| 62 | 7.360 | 1937 | 1950 | 1971 | rBV  | 330371 | 578834 | 80.53% | 10.623% |
| 63 | 7.614 | 2028 | 2029 | 2032 | rVB  | 246    | 91     | 0.01%  | 0.002%  |
| 64 | 7.666 | 2033 | 2045 | 2068 | rBV  | 62082  | 105832 | 14.72% | 1.942%  |
| 65 | 7.823 | 2092 | 2094 | 2098 | rVB  | 188    | 90     | 0.01%  | 0.002%  |
| 66 | 7.933 | 2125 | 2128 | 2131 | rBV2 | 260    | 199    | 0.03%  | 0.004%  |
| 67 | 8.061 | 2165 | 2168 | 2170 | rBV  | 119    | 71     | 0.01%  | 0.001%  |
| 68 | 8.135 | 2179 | 2191 | 2223 | rBV2 | 157788 | 338105 | 47.04% | 6.205%  |
| 69 | 8.347 | 2255 | 2257 | 2259 | rVB  | 311    | 120    | 0.02%  | 0.002%  |
| 70 | 8.515 | 2308 | 2309 | 2312 | rBV  | 207    | 87     | 0.01%  | 0.002%  |
| 71 | 8.563 | 2321 | 2324 | 2326 | rBV  | 217    | 143    | 0.02%  | 0.003%  |

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 MSVOA\_V  
 ClientSampleId :  
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## Integration Parameters: LSCINT.P

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 Sampling : 1  
 Start Thrs: 0.2  
 Stop Thrs : 0

Filtering: 5  
 Min Area: 0 % of largest Peak  
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 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 8.601  | 2330 | 2336 | 2339 | rVB2 | 163    | 190    | 0.03%  | 0.003% |
| 73  | 8.637  | 2344 | 2347 | 2350 | rBV2 | 150    | 116    | 0.02%  | 0.002% |
| 74  | 8.672  | 2355 | 2358 | 2361 | rBV2 | 216    | 173    | 0.02%  | 0.003% |
| 75  | 8.781  | 2391 | 2392 | 2395 | rVB  | 193    | 80     | 0.01%  | 0.001% |
| 76  | 8.801  | 2395 | 2398 | 2401 | rBV  | 364    | 292    | 0.04%  | 0.005% |
| 77  | 8.852  | 2411 | 2414 | 2416 | rBV  | 156    | 84     | 0.01%  | 0.002% |
| 78  | 8.897  | 2416 | 2428 | 2468 | rVV  | 328015 | 544044 | 75.69% | 9.984% |
| 79  | 9.109  | 2489 | 2494 | 2501 | rVB3 | 608    | 647    | 0.09%  | 0.012% |
| 80  | 9.170  | 2510 | 2513 | 2514 | rBV2 | 366    | 229    | 0.03%  | 0.004% |
| 81  | 9.842  | 2717 | 2722 | 2725 | rBV  | 262    | 283    | 0.04%  | 0.005% |
| 82  | 9.897  | 2736 | 2739 | 2740 | rBV  | 169    | 93     | 0.01%  | 0.002% |
| 83  | 10.019 | 2774 | 2777 | 2779 | rVB  | 166    | 71     | 0.01%  | 0.001% |
| 84  | 10.051 | 2783 | 2787 | 2791 | rVB2 | 247    | 202    | 0.03%  | 0.004% |
| 85  | 10.264 | 2842 | 2853 | 2874 | rVB  | 179856 | 297301 | 41.36% | 5.456% |
| 86  | 10.418 | 2899 | 2901 | 2902 | rBV  | 304    | 104    | 0.01%  | 0.002% |
| 87  | 10.653 | 2971 | 2974 | 2978 | rVB  | 175    | 109    | 0.02%  | 0.002% |
| 88  | 10.675 | 2979 | 2981 | 2983 | rBV2 | 140    | 80     | 0.01%  | 0.001% |
| 89  | 10.778 | 3010 | 3013 | 3015 | rBV2 | 169    | 122    | 0.02%  | 0.002% |
| 90  | 10.955 | 3066 | 3068 | 3071 | rBV  | 239    | 143    | 0.02%  | 0.003% |
| 91  | 11.186 | 3138 | 3140 | 3143 | rBV2 | 208    | 157    | 0.02%  | 0.003% |
| 92  | 11.296 | 3162 | 3174 | 3198 | rVV  | 279285 | 464531 | 64.62% | 8.525% |
| 93  | 11.675 | 3278 | 3292 | 3311 | rBV  | 286530 | 483560 | 67.27% | 8.874% |
| 94  | 12.203 | 3452 | 3456 | 3459 | rBV  | 241    | 255    | 0.04%  | 0.005% |
| 95  | 12.273 | 3475 | 3478 | 3480 | rBV  | 256    | 142    | 0.02%  | 0.003% |
| 96  | 12.743 | 3621 | 3624 | 3630 | rBV  | 196    | 153    | 0.02%  | 0.003% |
| 97  | 13.482 | 3851 | 3854 | 3857 | rBV  | 374    | 269    | 0.04%  | 0.005% |
| 98  | 13.627 | 3896 | 3899 | 3902 | rBV2 | 393    | 318    | 0.04%  | 0.006% |
| 99  | 14.035 | 4022 | 4026 | 4030 | rBV3 | 358    | 441    | 0.06%  | 0.008% |
| 100 | 14.109 | 4048 | 4049 | 4050 | rBV  | 285    | 81     | 0.01%  | 0.001% |

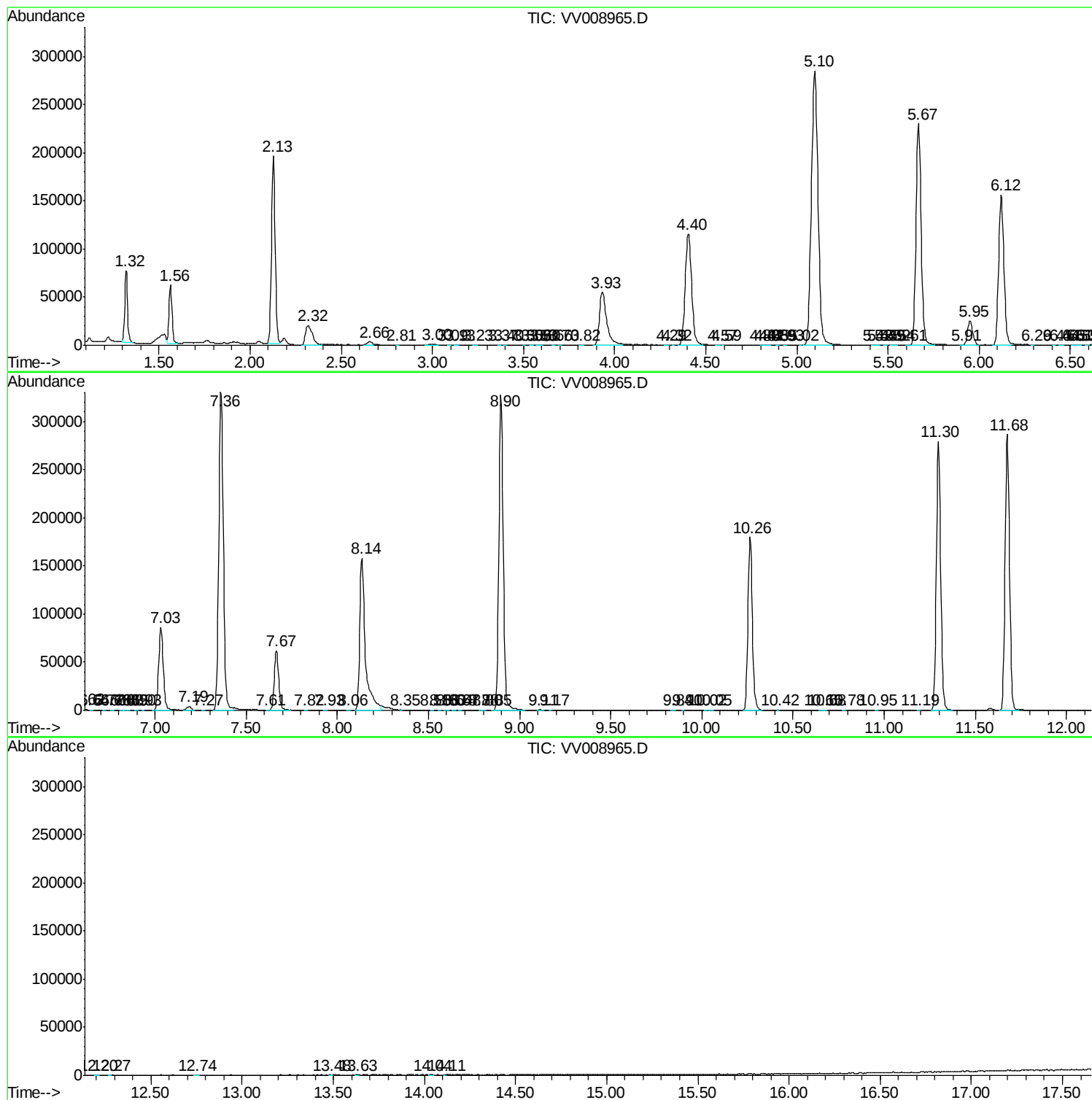
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ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampled :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV121418\  
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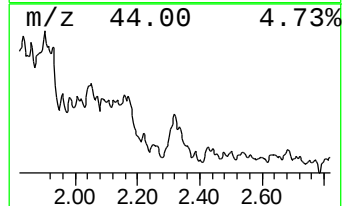
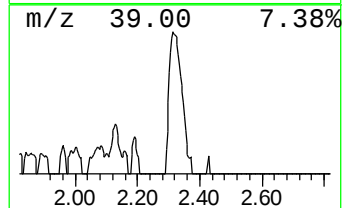
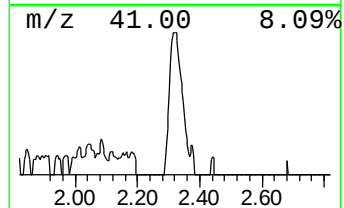
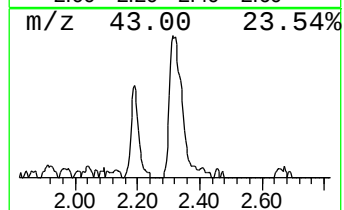
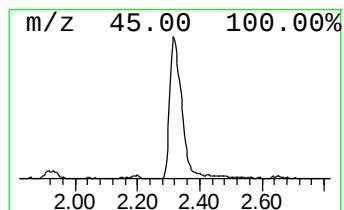
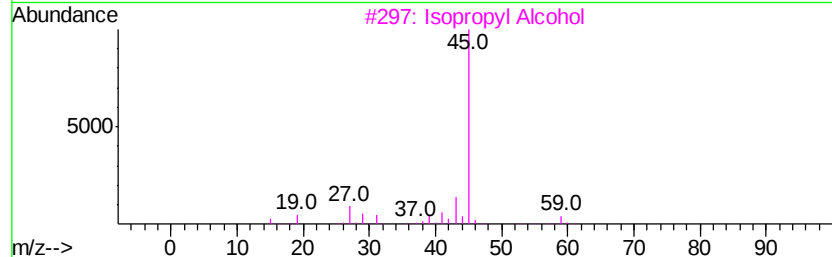
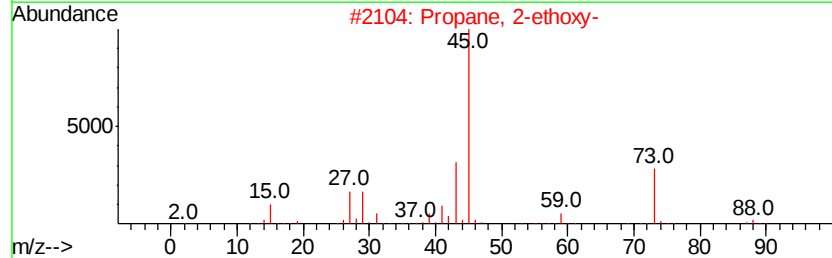
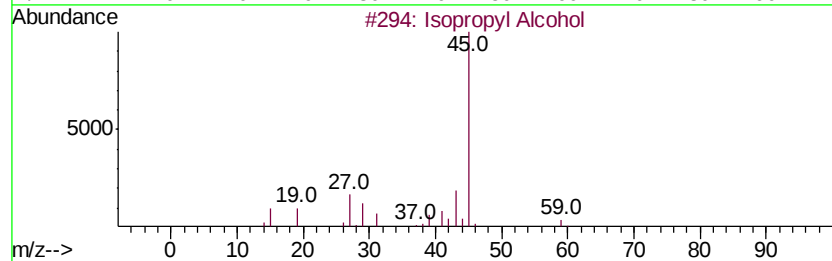
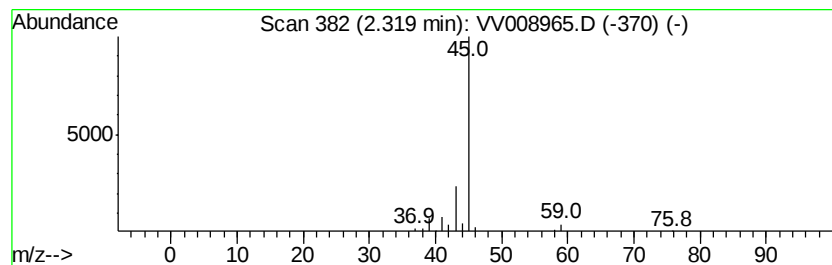
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.32 | 5.94 ug/L | 54280 | 1,4-Difluorobenzene | 5.67 |

| Hit# | of | 5 | Tentative ID                     | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol                | 60 | C3H8O   | 000067-63-0 | 64   |
| 2    |    |   | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 43   |
| 3    |    |   | Isopropyl Alcohol                | 60 | C3H8O   | 000067-63-0 | 43   |
| 4    |    |   | Propane, 2-ethoxy-               | 88 | C5H12O  | 000625-54-7 | 43   |
| 5    |    |   | Formic acid, 1-methylethyl ester | 88 | C4H8O2  | 000625-55-8 | 40   |



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Quant Title : VOC Analysis

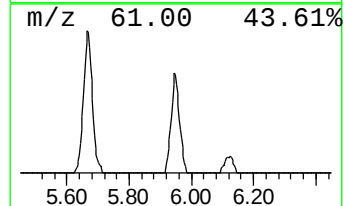
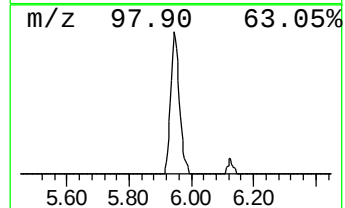
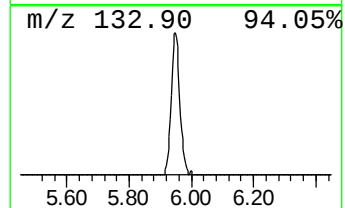
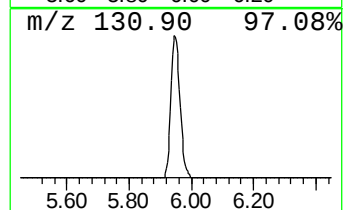
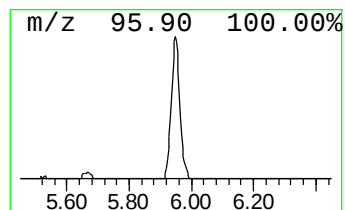
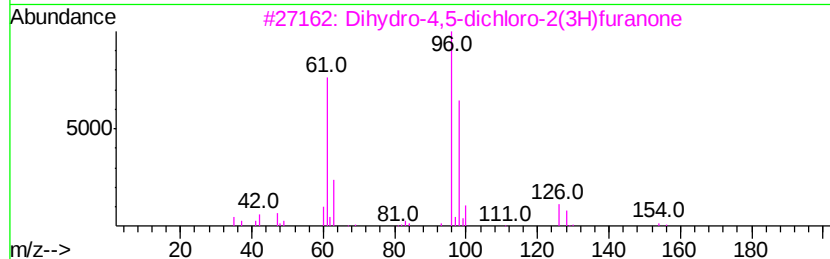
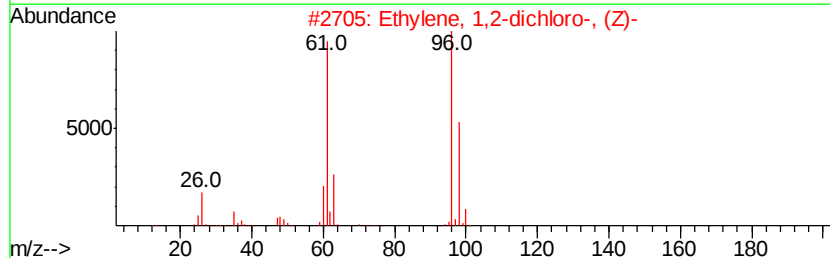
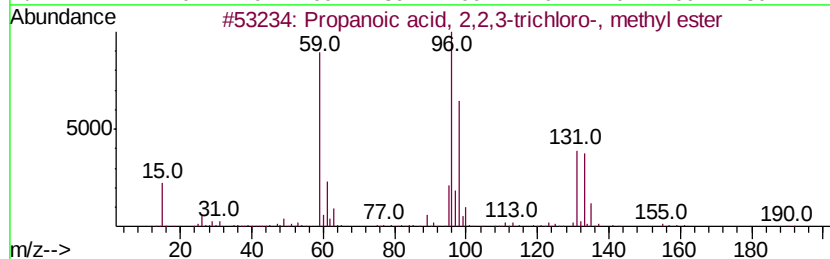
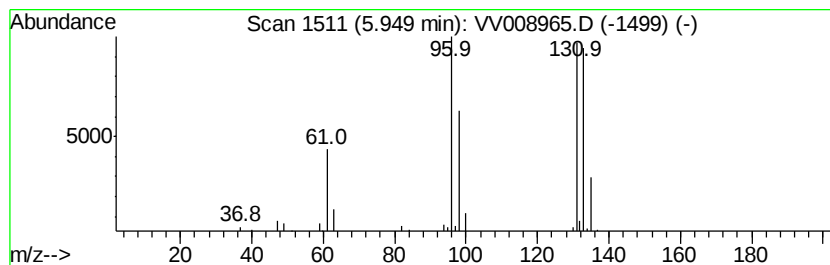
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Propanoic acid, 2,2,3-trich... Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.95 | 5.50 ug/L | 50315 | 1,4-Difluorobenzene | 5.67 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|---------|---|-------------------------------------|-----|-----------|-------------|------|
| 1       |   | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 56   |
| 2       |   | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 35   |
| 3       |   | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 25   |
| 4       |   | 1,2,4-Triazolidin-3-one, 4-methy... | 131 | C3H5N3OS  | 022244-61-7 | 9    |
| 5       |   | Benzene, fluoro-                    | 96  | C6H5F     | 000462-06-6 | 9    |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV121418\  
Data File : VV008965.D  
Acq On : 15 Dec 2018 05:27  
Operator : SY/MD  
Sample : J6383-01  
Misc : 5.0 mL/MSVOA\_V/WATER  
ALS Vial : 44 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0934

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM121318WMA.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol    | 2.32 | 5.9     | ug/L  | 54280    | 1                     | 5.67 | 457065 | 50.0 |
| Propanoic acid, 2... | 5.95 | 5.5     | ug/L  | 50315    | 1                     | 5.67 | 457065 | 50.0 |