

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
 Data File : VV012776.D  
 Acq On : 14 Sep 2019 19:22  
 Operator : SY/MD  
 Sample : K4867-09  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 COMG8

## 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\SOMVLM091319WMA.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         | 1.318       | 64            | 71          | 82           | rVB      | 271284         | 269843        | 10.03%          | 1.343%        |
| 2         | 1.579       | 145           | 152         | 169          | rVB      | 253845         | 298494        | 11.10%          | 1.485%        |
| 3         | 2.129       | 313           | 323         | 335          | rBV      | 485858         | 683274        | 25.41%          | 3.400%        |
| 4         | 2.299       | 366           | 376         | 395          | rBV      | 100287         | 175414        | 6.52%           | 0.873%        |
| 5         | 2.653       | 474           | 486         | 497          | rBV3     | 6702           | 14783         | 0.55%           | 0.074%        |
| 6         | 2.788       | 527           | 528         | 531          | rVV3     | 1221           | 599           | 0.02%           | 0.003%        |
| 7         | 2.804       | 531           | 533         | 536          | rVV3     | 1033           | 592           | 0.02%           | 0.003%        |
| 8         | 2.820       | 536           | 538         | 542          | rVB5     | 1045           | 747           | 0.03%           | 0.004%        |
| 9         | 2.994       | 589           | 592         | 596          | rBV4     | 733            | 615           | 0.02%           | 0.003%        |
| 10        | 3.103       | 621           | 626         | 631          | rBV5     | 921            | 1004          | 0.04%           | 0.005%        |
| 11        | 3.171       | 640           | 647         | 650          | rBV7     | 1271           | 1705          | 0.06%           | 0.008%        |
| 12        | 3.248       | 666           | 671         | 675          | rBV4     | 594            | 575           | 0.02%           | 0.003%        |
| 13        | 3.296       | 683           | 686         | 689          | rBV3     | 910            | 708           | 0.03%           | 0.004%        |
| 14        | 3.441       | 727           | 731         | 739          | rVV7     | 952            | 1172          | 0.04%           | 0.006%        |
| 15        | 3.707       | 808           | 814         | 819          | rBV5     | 1145           | 1617          | 0.06%           | 0.008%        |
| 16        | 3.740       | 819           | 824         | 829          | rVB5     | 799            | 867           | 0.03%           | 0.004%        |
| 17        | 3.923       | 868           | 881         | 918          | rBV      | 288016         | 776072        | 28.86%          | 3.862%        |
| 18        | 4.277       | 989           | 991         | 997          | rVB4     | 1313           | 1227          | 0.05%           | 0.006%        |
| 19        | 4.315       | 997           | 1003        | 1005         | rBV4     | 1153           | 977           | 0.04%           | 0.005%        |
| 20        | 4.399       | 1011          | 1029        | 1054         | rBV      | 478741         | 1153739       | 42.90%          | 5.741%        |
| 21        | 4.537       | 1070          | 1072        | 1075         | rBV2     | 909            | 572           | 0.02%           | 0.003%        |
| 22        | 4.614       | 1091          | 1096        | 1099         | rBV4     | 832            | 745           | 0.03%           | 0.004%        |
| 23        | 4.701       | 1118          | 1123        | 1126         | rBV6     | 987            | 851           | 0.03%           | 0.004%        |
| 24        | 4.720       | 1126          | 1129        | 1130         | rBV2     | 969            | 542           | 0.02%           | 0.003%        |
| 25        | 4.865       | 1170          | 1174        | 1176         | rBV2     | 1175           | 924           | 0.03%           | 0.005%        |
| 26        | 5.093       | 1225          | 1245        | 1269         | rBV2     | 1044115        | 2689337       | 100.00%         | 13.383%       |
| 27        | 5.367       | 1327          | 1330        | 1334         | rVB4     | 1287           | 768           | 0.03%           | 0.004%        |
| 28        | 5.437       | 1349          | 1352        | 1354         | rBV3     | 853            | 576           | 0.02%           | 0.003%        |
| 29        | 5.457       | 1354          | 1358        | 1363         | rVB4     | 1786           | 1967          | 0.07%           | 0.010%        |
| 30        | 5.495       | 1366          | 1370        | 1373         | rBV3     | 580            | 577           | 0.02%           | 0.003%        |
| 31        | 5.662       | 1406          | 1422        | 1449         | rBV      | 823473         | 1624902       | 60.42%          | 8.086%        |
| 32        | 5.945       | 1496          | 1510        | 1531         | rBV3     | 125078         | 262823        | 9.77%           | 1.308%        |
| 33        | 6.116       | 1548          | 1563        | 1585         | rBV      | 690202         | 1361816       | 50.64%          | 6.777%        |
| 34        | 6.334       | 1629          | 1631        | 1635         | rVB4     | 1067           | 681           | 0.03%           | 0.003%        |

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 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0MG8

## 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\SOMVLM091319WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 35 | 6.479  | 1674 | 1676 | 1680 | rVB2 | 933     | 561     | 0.02%  | 0.003% |
| 36 | 6.611  | 1714 | 1717 | 1719 | rBV3 | 927     | 574     | 0.02%  | 0.003% |
| 37 | 6.646  | 1719 | 1728 | 1739 | rBV6 | 6430    | 14301   | 0.53%  | 0.071% |
| 38 | 6.714  | 1745 | 1749 | 1752 | rBV4 | 780     | 588     | 0.02%  | 0.003% |
| 39 | 6.781  | 1767 | 1770 | 1775 | rVB4 | 1087    | 739     | 0.03%  | 0.004% |
| 40 | 6.865  | 1791 | 1796 | 1801 | rVB4 | 1168    | 1096    | 0.04%  | 0.005% |
| 41 | 6.965  | 1821 | 1827 | 1833 | rVB4 | 1010    | 1222    | 0.05%  | 0.006% |
| 42 | 7.029  | 1833 | 1847 | 1868 | rBV  | 318298  | 570179  | 21.20% | 2.837% |
| 43 | 7.154  | 1882 | 1886 | 1887 | rBV4 | 941     | 692     | 0.03%  | 0.003% |
| 44 | 7.177  | 1887 | 1893 | 1901 | rVV9 | 3447    | 6217    | 0.23%  | 0.031% |
| 45 | 7.357  | 1936 | 1949 | 1972 | rBV  | 1108223 | 1911010 | 71.06% | 9.510% |
| 46 | 7.662  | 2032 | 2044 | 2061 | rBV  | 227633  | 382952  | 14.24% | 1.906% |
| 47 | 7.775  | 2077 | 2079 | 2082 | rVB3 | 1663    | 774     | 0.03%  | 0.004% |
| 48 | 7.826  | 2093 | 2095 | 2099 | rVB4 | 1013    | 606     | 0.02%  | 0.003% |
| 49 | 7.849  | 2099 | 2102 | 2104 | rVB2 | 997     | 564     | 0.02%  | 0.003% |
| 50 | 7.891  | 2112 | 2115 | 2117 | rBV3 | 925     | 542     | 0.02%  | 0.003% |
| 51 | 7.903  | 2117 | 2119 | 2122 | rVB3 | 1200    | 649     | 0.02%  | 0.003% |
| 52 | 8.129  | 2178 | 2189 | 2235 | rBV2 | 710423  | 1556650 | 57.88% | 7.746% |
| 53 | 8.431  | 2280 | 2283 | 2286 | rBV5 | 1310    | 1135    | 0.04%  | 0.006% |
| 54 | 8.453  | 2286 | 2290 | 2293 | rVB3 | 1410    | 1070    | 0.04%  | 0.005% |
| 55 | 8.633  | 2343 | 2346 | 2349 | rVB4 | 1299    | 803     | 0.03%  | 0.004% |
| 56 | 8.768  | 2382 | 2388 | 2389 | rBV3 | 1283    | 857     | 0.03%  | 0.004% |
| 57 | 8.820  | 2400 | 2404 | 2406 | rBV3 | 770     | 695     | 0.03%  | 0.003% |
| 58 | 8.894  | 2413 | 2427 | 2448 | rBV  | 1175614 | 1915865 | 71.24% | 9.534% |
| 59 | 9.106  | 2491 | 2493 | 2497 | rVB4 | 826     | 600     | 0.02%  | 0.003% |
| 60 | 9.128  | 2497 | 2500 | 2503 | rBV3 | 720     | 613     | 0.02%  | 0.003% |
| 61 | 9.173  | 2509 | 2514 | 2515 | rBV4 | 1407    | 1060    | 0.04%  | 0.005% |
| 62 | 9.437  | 2591 | 2596 | 2600 | rVB5 | 1002    | 1139    | 0.04%  | 0.006% |
| 63 | 9.498  | 2613 | 2615 | 2623 | rVB4 | 1323    | 1437    | 0.05%  | 0.007% |
| 64 | 9.540  | 2623 | 2628 | 2630 | rBV4 | 826     | 668     | 0.02%  | 0.003% |
| 65 | 9.585  | 2636 | 2642 | 2644 | rBV6 | 1615    | 1325    | 0.05%  | 0.007% |
| 66 | 10.013 | 2771 | 2775 | 2779 | rBV4 | 939     | 919     | 0.03%  | 0.005% |
| 67 | 10.077 | 2791 | 2795 | 2800 | rVB6 | 879     | 725     | 0.03%  | 0.004% |
| 68 | 10.141 | 2811 | 2815 | 2819 | rBV3 | 768     | 607     | 0.02%  | 0.003% |
| 69 | 10.257 | 2835 | 2851 | 2874 | rBV  | 817141  | 1294244 | 48.13% | 6.441% |
| 70 | 10.344 | 2876 | 2878 | 2883 | rVV4 | 927     | 865     | 0.03%  | 0.004% |
| 71 | 10.366 | 2883 | 2885 | 2890 | rVB4 | 866     | 627     | 0.02%  | 0.003% |

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 MSVOA\_V  
 ClientSampleId :  
 COMG8

## 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\SOMVLM091319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 10.395 | 2890 | 2894 | 2896 | rBV2 | 1187    | 1044    | 0.04%  | 0.005% |
| 73  | 10.418 | 2897 | 2901 | 2908 | rVV9 | 1943    | 2420    | 0.09%  | 0.012% |
| 74  | 10.450 | 2908 | 2911 | 2914 | rVB3 | 1383    | 916     | 0.03%  | 0.005% |
| 75  | 10.489 | 2920 | 2923 | 2926 | rBV3 | 1024    | 767     | 0.03%  | 0.004% |
| 76  | 10.817 | 3021 | 3025 | 3029 | rVB4 | 830     | 939     | 0.03%  | 0.005% |
| 77  | 10.871 | 3038 | 3042 | 3045 | rVB3 | 656     | 557     | 0.02%  | 0.003% |
| 78  | 10.894 | 3045 | 3049 | 3054 | rBV6 | 1383    | 1315    | 0.05%  | 0.007% |
| 79  | 10.955 | 3066 | 3068 | 3074 | rVB6 | 904     | 875     | 0.03%  | 0.004% |
| 80  | 10.993 | 3076 | 3080 | 3081 | rBV3 | 924     | 580     | 0.02%  | 0.003% |
| 81  | 11.058 | 3097 | 3100 | 3104 | rVB3 | 807     | 542     | 0.02%  | 0.003% |
| 82  | 11.202 | 3142 | 3145 | 3146 | rBV2 | 906     | 555     | 0.02%  | 0.003% |
| 83  | 11.292 | 3160 | 3173 | 3192 | rBV  | 857905  | 1327905 | 49.38% | 6.608% |
| 84  | 11.489 | 3231 | 3234 | 3236 | rBV4 | 988     | 653     | 0.02%  | 0.003% |
| 85  | 11.521 | 3241 | 3244 | 3247 | rBV2 | 1095    | 783     | 0.03%  | 0.004% |
| 86  | 11.575 | 3257 | 3261 | 3265 | rBV5 | 1058    | 819     | 0.03%  | 0.004% |
| 87  | 11.669 | 3276 | 3290 | 3315 | rBV  | 1110879 | 1737541 | 64.61% | 8.647% |
| 88  | 12.132 | 3431 | 3434 | 3439 | rBV5 | 854     | 781     | 0.03%  | 0.004% |
| 89  | 12.540 | 3557 | 3561 | 3564 | rBV3 | 776     | 716     | 0.03%  | 0.004% |
| 90  | 12.691 | 3604 | 3608 | 3611 | rBV2 | 1686    | 1519    | 0.06%  | 0.008% |
| 91  | 12.768 | 3629 | 3632 | 3636 | rVB3 | 1013    | 864     | 0.03%  | 0.004% |
| 92  | 12.913 | 3670 | 3677 | 3680 | rBV4 | 1001    | 1345    | 0.05%  | 0.007% |
| 93  | 13.199 | 3763 | 3766 | 3770 | rBV4 | 740     | 693     | 0.03%  | 0.003% |
| 94  | 13.308 | 3796 | 3800 | 3801 | rBV3 | 1230    | 890     | 0.03%  | 0.004% |
| 95  | 13.578 | 3881 | 3884 | 3887 | rBV3 | 1012    | 568     | 0.02%  | 0.003% |
| 96  | 13.688 | 3914 | 3918 | 3920 | rBV4 | 946     | 808     | 0.03%  | 0.004% |
| 97  | 13.755 | 3936 | 3939 | 3944 | rBV3 | 1074    | 791     | 0.03%  | 0.004% |
| 98  | 13.858 | 3969 | 3971 | 3974 | rBV2 | 1023    | 653     | 0.02%  | 0.003% |
| 99  | 14.540 | 4181 | 4183 | 4186 | rBV3 | 1126    | 558     | 0.02%  | 0.003% |
| 100 | 14.832 | 4271 | 4274 | 4276 | rBV2 | 1103    | 615     | 0.02%  | 0.003% |

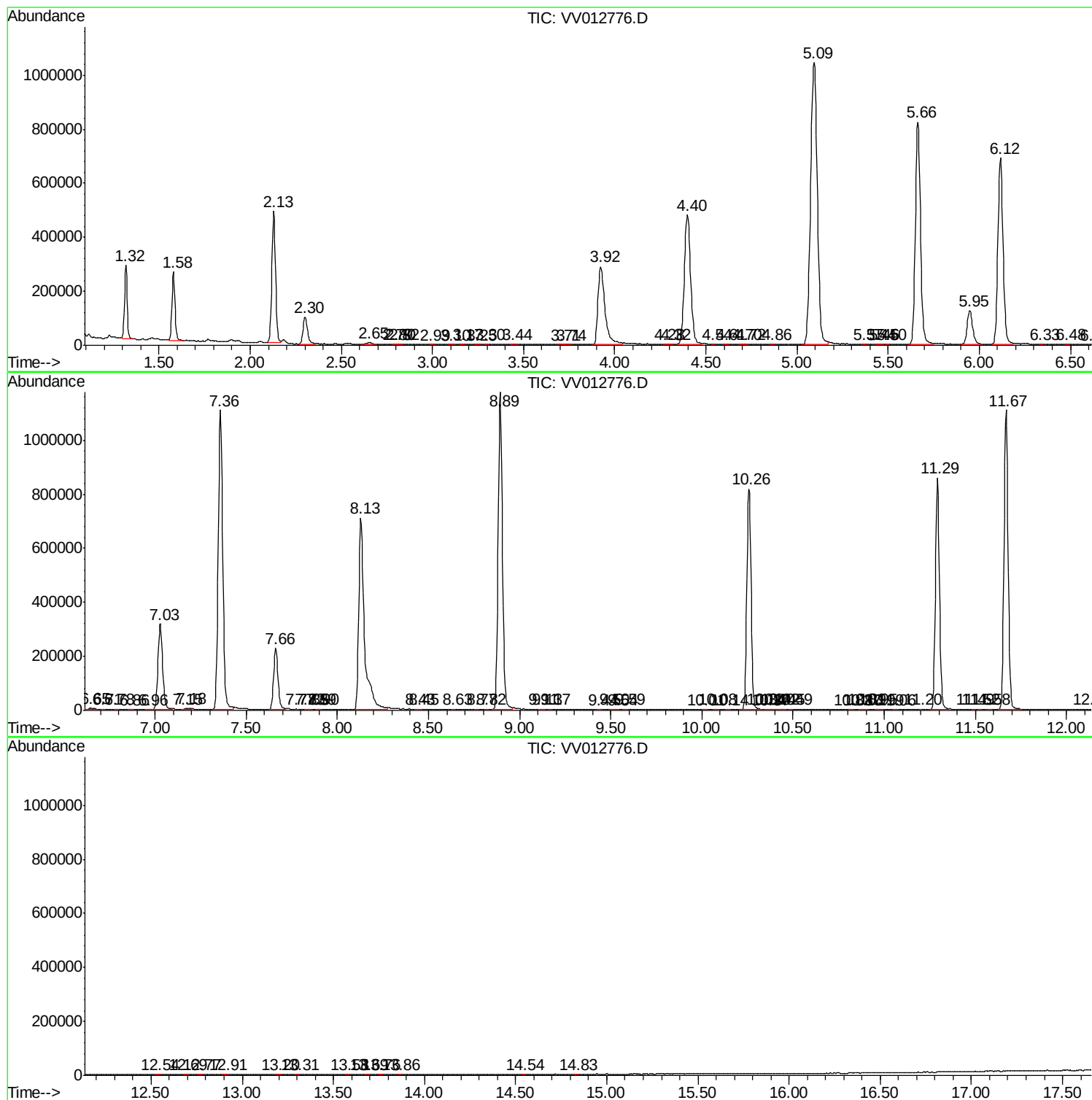
Sum of corrected areas: 20095287

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MSVOA\_V  
ClientSampled :  
COMG8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV091319\  
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ALS Vial : 21 Sample Multiplier: 1

Instrument :  
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ClientSampleId :  
COMG8

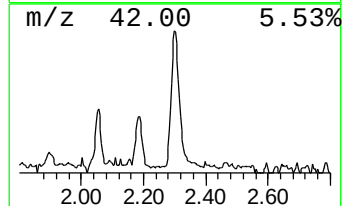
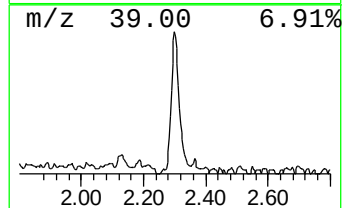
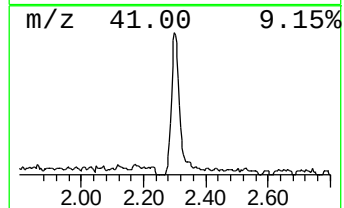
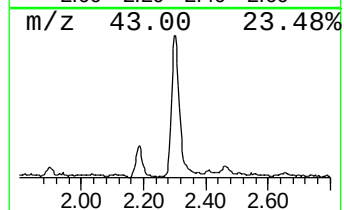
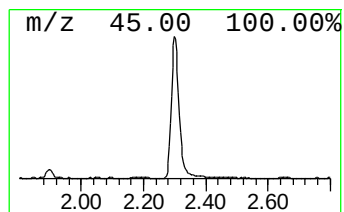
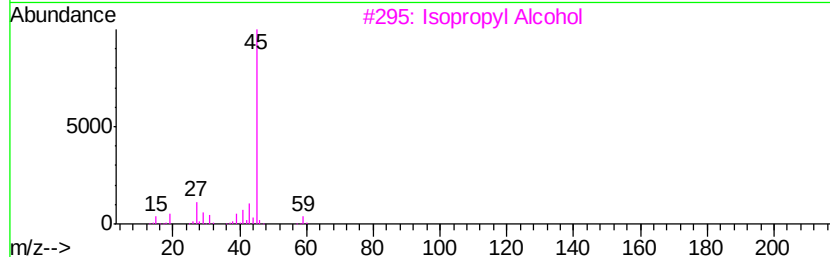
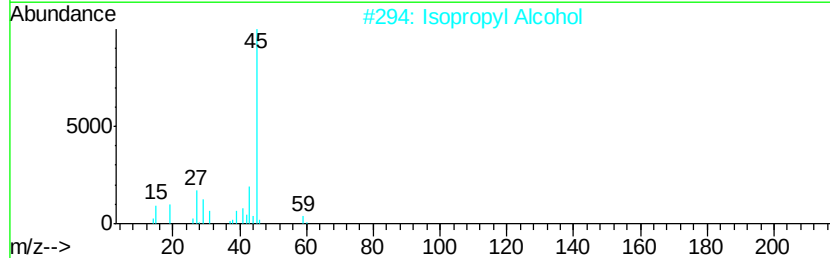
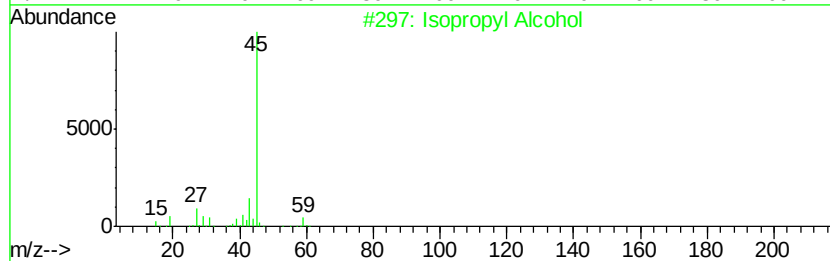
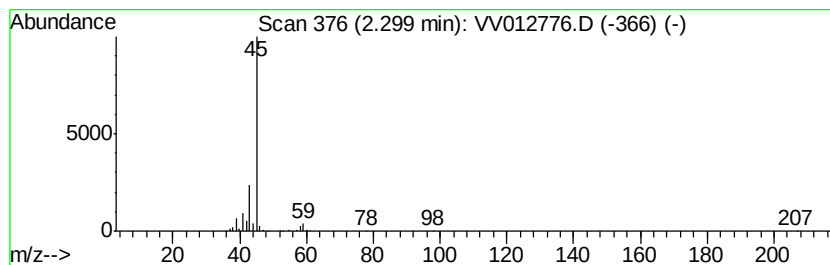
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.30 | 5.40 ug/L | 175414 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|--------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 86   |
| 2    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    | Isopropyl Alcohol  | 60 | C3H8O   | 000067-63-0 | 78   |
| 4    |    | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 64   |
| 5    |    | Propane, 2-ethoxy- | 88 | C5H12O  | 000625-54-7 | 56   |



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ALS Vial : 21 Sample Multiplier: 1

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.M  
Quant Title : VOC Analysis

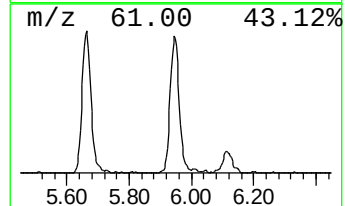
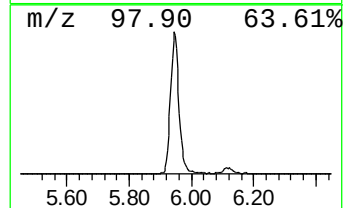
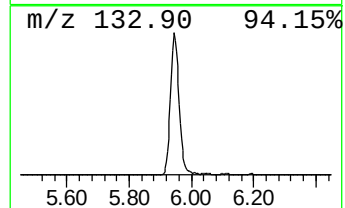
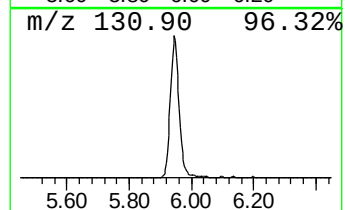
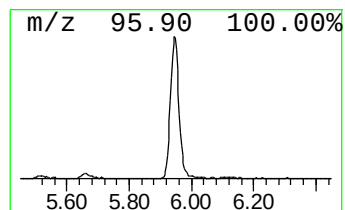
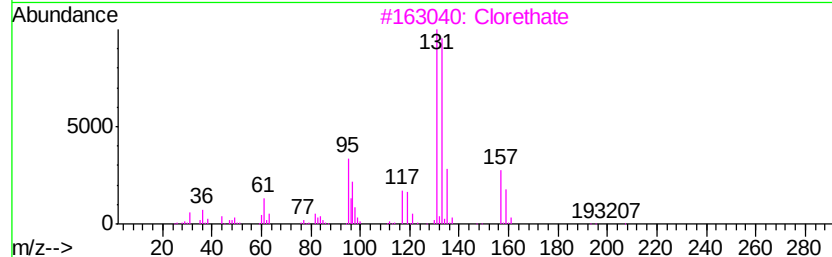
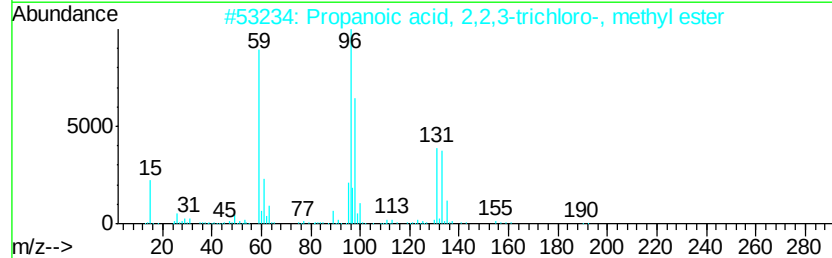
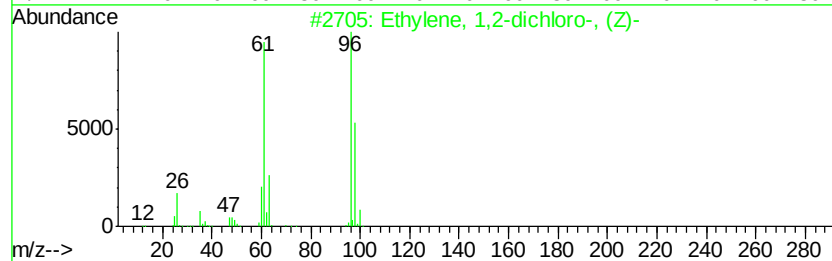
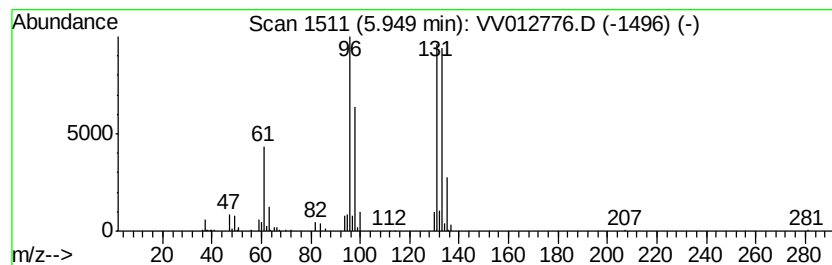
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 unknown-01 Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.95 | 8.09 ug/L | 262823 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#         | Qual |
|------|----|-------------------------------------|-----|-----------|--------------|------|
| 1    | 5  | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2  | 38   |
| 2    |    | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3  | 33   |
| 3    |    | Clorethate                          | 322 | C5H4Cl6O3 | 005634-37-7  | 25   |
| 4    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0  | 12   |
| 5    |    | Difluoro(methylamino)phosphine s... | 131 | CH4F2NPS  | 1000306-16-8 | 9    |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_V\DATA\VV091319\  
Data File : VV012776.D  
Acq On : 14 Sep 2019 19:22  
Operator : SY/MD  
Sample : K4867-09  
Misc : 5.0mL/MSVOA\_V/WATER  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0MG8

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM091319WMA.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 | 2.30 | 5.4     | ug/L  | 175414   | 1                     | 5.66 | 1624900 | 50.0 |
| unknown-01        | 5.95 | 8.1     | ug/L  | 262823   | 1                     | 5.66 | 1624900 | 50.0 |