

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
 Data File : VU034819.D  
 Acq On : 25 Sep 2019 21:54  
 Operator : JC/SP  
 Sample : K4983-09  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFDM4

## 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\SOMULM091919WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.177    | 23         | 27       | 33        | rBV2  | 6328        | 6283       | 0.19%        | 0.025%     |
| 2      | 1.392    | 87         | 94       | 106       | rBV   | 305728      | 326778     | 10.01%       | 1.312%     |
| 3      | 1.672    | 173        | 181      | 194       | rBV   | 254728      | 327676     | 10.04%       | 1.316%     |
| 4      | 2.257    | 353        | 363      | 374       | rBV   | 456523      | 690218     | 21.15%       | 2.772%     |
| 5      | 2.556    | 453        | 456      | 460       | rVB5  | 2009        | 1645       | 0.05%        | 0.007%     |
| 6      | 2.605    | 461        | 471      | 479       | rBV3  | 5684        | 10929      | 0.33%        | 0.044%     |
| 7      | 2.685    | 485        | 496      | 512       | rBV   | 203851      | 361742     | 11.08%       | 1.453%     |
| 8      | 2.807    | 532        | 534      | 541       | rVB5  | 1707        | 1345       | 0.04%        | 0.005%     |
| 9      | 2.836    | 541        | 543      | 546       | rBV4  | 1281        | 868        | 0.03%        | 0.003%     |
| 10     | 2.910    | 564        | 566      | 568       | rVV3  | 1127        | 575        | 0.02%        | 0.002%     |
| 11     | 2.923    | 568        | 570      | 574       | rVV2  | 1037        | 735        | 0.02%        | 0.003%     |
| 12     | 3.019    | 597        | 600      | 603       | rBV3  | 867         | 667        | 0.02%        | 0.003%     |
| 13     | 3.093    | 619        | 623      | 627       | rBV6  | 1501        | 1222       | 0.04%        | 0.005%     |
| 14     | 3.232    | 663        | 666      | 671       | rVB5  | 1613        | 1475       | 0.05%        | 0.006%     |
| 15     | 3.261    | 671        | 675      | 677       | rBV2  | 1333        | 704        | 0.02%        | 0.003%     |
| 16     | 3.280    | 678        | 681      | 684       | rBV4  | 1694        | 1172       | 0.04%        | 0.005%     |
| 17     | 3.334    | 696        | 698      | 702       | rBV3  | 836         | 644        | 0.02%        | 0.003%     |
| 18     | 3.431    | 721        | 728      | 729       | rBV5  | 836         | 862        | 0.03%        | 0.003%     |
| 19     | 3.457    | 734        | 736      | 740       | rVV4  | 1213        | 703        | 0.02%        | 0.003%     |
| 20     | 3.486    | 740        | 745      | 749       | rVB5  | 1790        | 1689       | 0.05%        | 0.007%     |
| 21     | 3.508    | 749        | 752      | 755       | rBV5  | 1049        | 926        | 0.03%        | 0.004%     |
| 22     | 3.556    | 763        | 767      | 774       | rBV6  | 1710        | 1726       | 0.05%        | 0.007%     |
| 23     | 3.659    | 796        | 799      | 804       | rBV6  | 991         | 582        | 0.02%        | 0.002%     |
| 24     | 3.688    | 806        | 808      | 811       | rVB4  | 1188        | 621        | 0.02%        | 0.002%     |
| 25     | 3.707    | 811        | 814      | 817       | rBV3  | 1269        | 805        | 0.02%        | 0.003%     |
| 26     | 3.727    | 817        | 820      | 823       | rBV3  | 1003        | 699        | 0.02%        | 0.003%     |
| 27     | 3.788    | 836        | 839      | 844       | rVB4  | 1117        | 926        | 0.03%        | 0.004%     |
| 28     | 3.836    | 850        | 854      | 856       | rBV5  | 1453        | 1205       | 0.04%        | 0.005%     |
| 29     | 3.846    | 856        | 857      | 860       | rVB3  | 1726        | 599        | 0.02%        | 0.002%     |
| 30     | 3.868    | 860        | 864      | 867       | rBV4  | 1151        | 1120       | 0.03%        | 0.004%     |
| 31     | 4.068    | 921        | 926      | 928       | rBV4  | 1394        | 1278       | 0.04%        | 0.005%     |
| 32     | 4.151    | 937        | 952      | 981       | rBV   | 231214      | 628972     | 19.27%       | 2.526%     |
| 33     | 4.453    | 1041       | 1046     | 1049      | rBV6  | 1571        | 1785       | 0.05%        | 0.007%     |
| 34     | 4.621    | 1083       | 1098     | 1127      | rVV   | 351770      | 837983     | 25.67%       | 3.365%     |

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 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\SOMULM091919WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |         |         |
|----|--------|------|------|------|------|---------|---------|---------|---------|
| 35 | 4.820  | 1156 | 1160 | 1163 | rBV4 | 1583    | 1408    | 0.04%   | 0.006%  |
| 36 | 4.949  | 1197 | 1200 | 1205 | rBV6 | 1742    | 1728    | 0.05%   | 0.007%  |
| 37 | 5.068  | 1231 | 1237 | 1241 | rVB8 | 1335    | 1513    | 0.05%   | 0.006%  |
| 38 | 5.186  | 1271 | 1274 | 1277 | rVB3 | 1024    | 605     | 0.02%   | 0.002%  |
| 39 | 5.231  | 1282 | 1288 | 1290 | rBV6 | 1338    | 1107    | 0.03%   | 0.004%  |
| 40 | 5.315  | 1290 | 1314 | 1338 | rBV2 | 758791  | 2241119 | 68.66%  | 9.000%  |
| 41 | 5.527  | 1369 | 1380 | 1404 | rVB2 | 81689   | 176491  | 5.41%   | 0.709%  |
| 42 | 5.701  | 1431 | 1434 | 1440 | rVB6 | 2469    | 2248    | 0.07%   | 0.009%  |
| 43 | 5.862  | 1463 | 1484 | 1503 | rBV2 | 595349  | 1367078 | 41.88%  | 5.490%  |
| 44 | 6.305  | 1609 | 1622 | 1641 | rBV  | 514622  | 1037730 | 31.79%  | 4.167%  |
| 45 | 6.682  | 1727 | 1739 | 1762 | rBV  | 1812413 | 3264174 | 100.00% | 13.108% |
| 46 | 7.109  | 1870 | 1872 | 1874 | rBV2 | 1331    | 708     | 0.02%   | 0.003%  |
| 47 | 7.206  | 1890 | 1902 | 1930 | rBV  | 294867  | 548946  | 16.82%  | 2.204%  |
| 48 | 7.399  | 1951 | 1962 | 1973 | rBV  | 217827  | 369429  | 11.32%  | 1.483%  |
| 49 | 7.543  | 1994 | 2007 | 2026 | rBV  | 1031247 | 1833312 | 56.16%  | 7.362%  |
| 50 | 7.826  | 2085 | 2095 | 2118 | rBV2 | 251462  | 454198  | 13.91%  | 1.824%  |
| 51 | 8.135  | 2178 | 2191 | 2206 | rBV  | 398300  | 675144  | 20.68%  | 2.711%  |
| 52 | 8.215  | 2209 | 2216 | 2218 | rVV4 | 24760   | 32157   | 0.99%   | 0.129%  |
| 53 | 8.241  | 2220 | 2224 | 2229 | rVV3 | 46556   | 62481   | 1.91%   | 0.251%  |
| 54 | 8.289  | 2229 | 2239 | 2262 | rVV  | 894234  | 1601776 | 49.07%  | 6.432%  |
| 55 | 8.395  | 2262 | 2272 | 2292 | rVB  | 636337  | 1034896 | 31.70%  | 4.156%  |
| 56 | 8.508  | 2301 | 2307 | 2321 | rVB2 | 28379   | 49767   | 1.52%   | 0.200%  |
| 57 | 8.768  | 2384 | 2388 | 2391 | rVB5 | 2232    | 1650    | 0.05%   | 0.007%  |
| 58 | 8.884  | 2411 | 2424 | 2447 | rBV  | 821279  | 1333278 | 40.85%  | 5.354%  |
| 59 | 9.067  | 2463 | 2481 | 2510 | rBV  | 821398  | 1434691 | 43.95%  | 5.761%  |
| 60 | 9.267  | 2540 | 2543 | 2546 | rVB4 | 1871    | 940     | 0.03%   | 0.004%  |
| 61 | 9.434  | 2593 | 2595 | 2598 | rVB3 | 1273    | 680     | 0.02%   | 0.003%  |
| 62 | 9.588  | 2636 | 2643 | 2655 | rVV  | 20305   | 31568   | 0.97%   | 0.127%  |
| 63 | 9.749  | 2683 | 2693 | 2715 | rBV2 | 94886   | 168657  | 5.17%   | 0.677%  |
| 64 | 9.919  | 2740 | 2746 | 2747 | rBV4 | 3570    | 3692    | 0.11%   | 0.015%  |
| 65 | 10.067 | 2789 | 2792 | 2795 | rVB3 | 1741    | 878     | 0.03%   | 0.004%  |
| 66 | 10.408 | 2886 | 2898 | 2917 | rBV  | 684493  | 1112676 | 34.09%  | 4.468%  |
| 67 | 10.662 | 2972 | 2977 | 2984 | rBV8 | 3484    | 4907    | 0.15%   | 0.020%  |
| 68 | 10.717 | 2990 | 2994 | 3001 | rBV8 | 2368    | 3352    | 0.10%   | 0.013%  |
| 69 | 10.752 | 3002 | 3005 | 3013 | rVB8 | 4500    | 4682    | 0.14%   | 0.019%  |
| 70 | 10.878 | 3042 | 3044 | 3047 | rVB2 | 1387    | 682     | 0.02%   | 0.003%  |
| 71 | 10.894 | 3047 | 3049 | 3054 | rBV5 | 2150    | 1527    | 0.05%   | 0.006%  |

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## Integration Parameters: LSCINT.P

Integrator: RTE  
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Filtering: 5  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 11.038 | 3089 | 3094 | 3095 | rBV4 | 1332   | 1175    | 0.04%  | 0.005% |
| 73  | 11.128 | 3114 | 3122 | 3131 | rBV3 | 10896  | 15650   | 0.48%  | 0.063% |
| 74  | 11.244 | 3155 | 3158 | 3159 | rBV3 | 1114   | 564     | 0.02%  | 0.002% |
| 75  | 11.353 | 3189 | 3192 | 3198 | rBV7 | 1452   | 1409    | 0.04%  | 0.006% |
| 76  | 11.460 | 3214 | 3225 | 3247 | rBV  | 765243 | 1252019 | 38.36% | 5.028% |
| 77  | 11.836 | 3329 | 3342 | 3360 | rBV  | 908520 | 1512184 | 46.33% | 6.072% |
| 78  | 12.173 | 3443 | 3447 | 3456 | rVB9 | 2803   | 3607    | 0.11%  | 0.014% |
| 79  | 12.218 | 3459 | 3461 | 3462 | rBV2 | 1388   | 722     | 0.02%  | 0.003% |
| 80  | 12.324 | 3491 | 3494 | 3496 | rBV4 | 2392   | 1622    | 0.05%  | 0.007% |
| 81  | 12.434 | 3525 | 3528 | 3529 | rBV3 | 1474   | 746     | 0.02%  | 0.003% |
| 82  | 12.443 | 3529 | 3531 | 3533 | rBV3 | 1096   | 648     | 0.02%  | 0.003% |
| 83  | 12.685 | 3603 | 3606 | 3608 | rBV3 | 2130   | 1618    | 0.05%  | 0.006% |
| 84  | 12.768 | 3629 | 3632 | 3637 | rBV7 | 1694   | 1417    | 0.04%  | 0.006% |
| 85  | 12.797 | 3638 | 3641 | 3644 | rBV4 | 1512   | 1199    | 0.04%  | 0.005% |
| 86  | 12.897 | 3670 | 3672 | 3674 | rBV3 | 1413   | 685     | 0.02%  | 0.003% |
| 87  | 12.958 | 3687 | 3691 | 3693 | rBV5 | 2158   | 1929    | 0.06%  | 0.008% |
| 88  | 13.016 | 3706 | 3709 | 3714 | rBV6 | 2156   | 2018    | 0.06%  | 0.008% |
| 89  | 13.099 | 3731 | 3735 | 3739 | rBV5 | 4683   | 4974    | 0.15%  | 0.020% |
| 90  | 13.212 | 3768 | 3770 | 3773 | rVB3 | 1388   | 759     | 0.02%  | 0.003% |
| 91  | 13.234 | 3774 | 3777 | 3780 | rBV3 | 1911   | 1644    | 0.05%  | 0.007% |
| 92  | 13.270 | 3786 | 3788 | 3791 | rBV4 | 1187   | 724     | 0.02%  | 0.003% |
| 93  | 13.437 | 3838 | 3840 | 3844 | rVV5 | 1659   | 1114    | 0.03%  | 0.004% |
| 94  | 13.514 | 3862 | 3864 | 3866 | rBV2 | 1218   | 706     | 0.02%  | 0.003% |
| 95  | 13.550 | 3872 | 3875 | 3877 | rBV3 | 1468   | 716     | 0.02%  | 0.003% |
| 96  | 13.662 | 3906 | 3910 | 3914 | rBV6 | 1757   | 1463    | 0.04%  | 0.006% |
| 97  | 13.746 | 3929 | 3936 | 3944 | rBV8 | 5307   | 9470    | 0.29%  | 0.038% |
| 98  | 13.897 | 3981 | 3983 | 3985 | rVB3 | 1706   | 753     | 0.02%  | 0.003% |
| 99  | 14.038 | 4025 | 4027 | 4032 | rBV3 | 1697   | 1012    | 0.03%  | 0.004% |
| 100 | 14.881 | 4286 | 4289 | 4290 | rBV2 | 2124   | 1064    | 0.03%  | 0.004% |

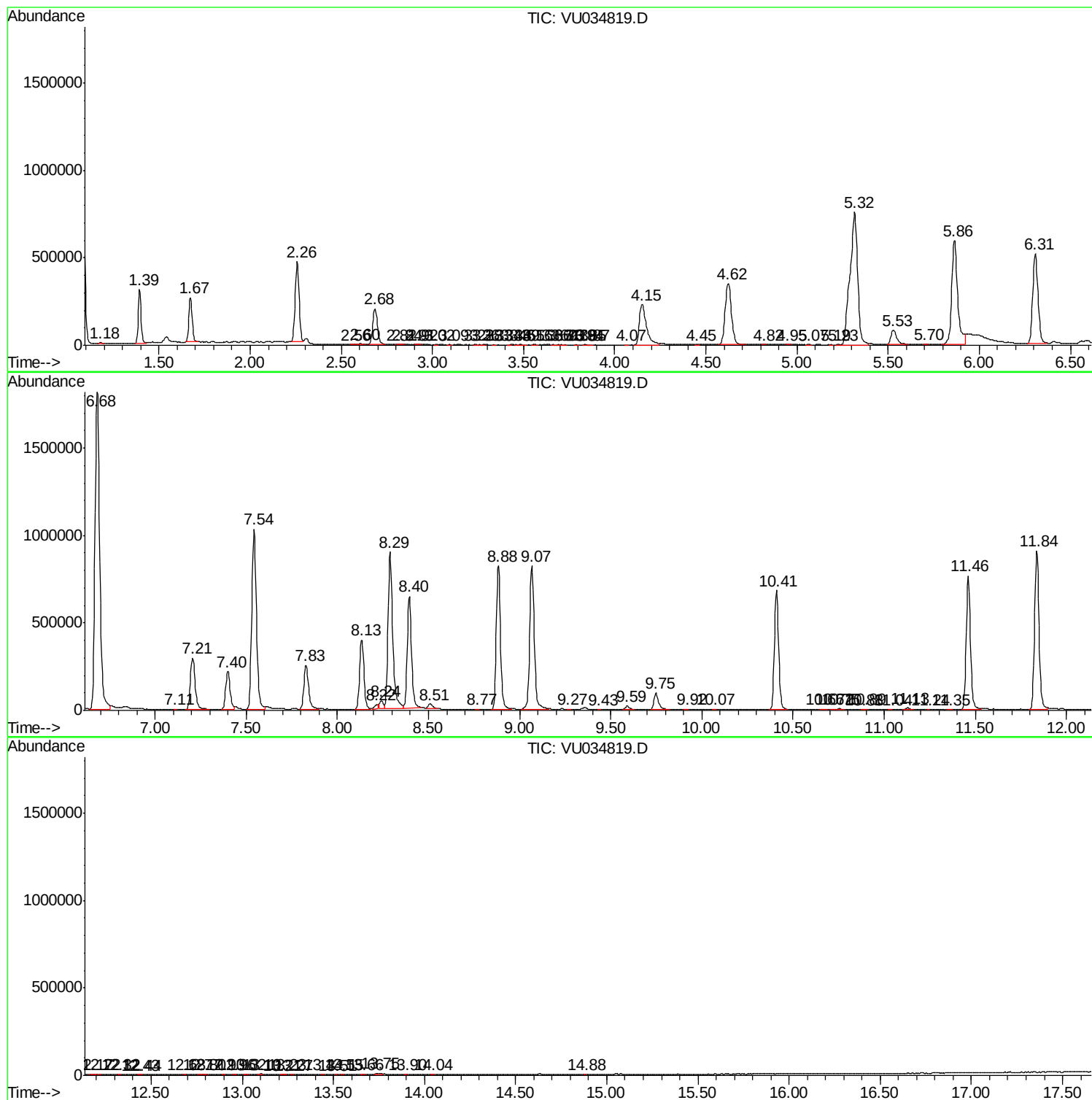
Sum of corrected areas: 24902645

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
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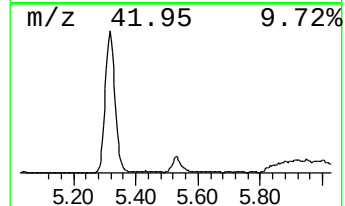
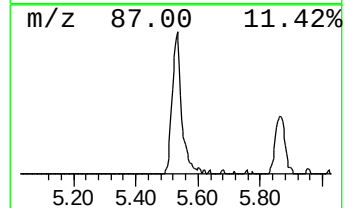
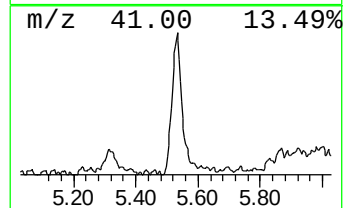
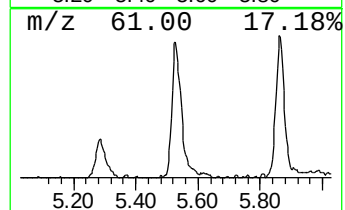
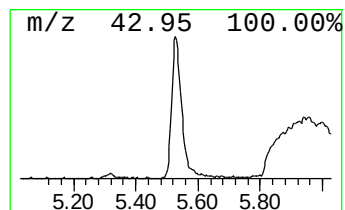
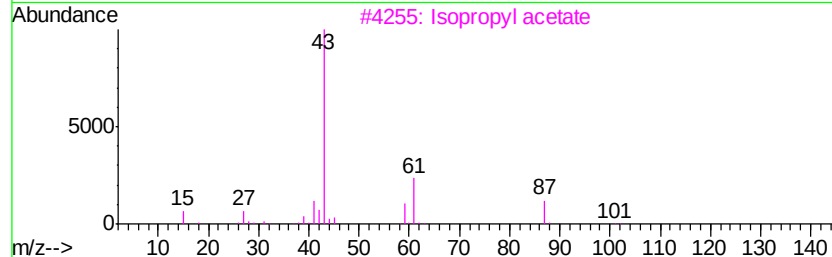
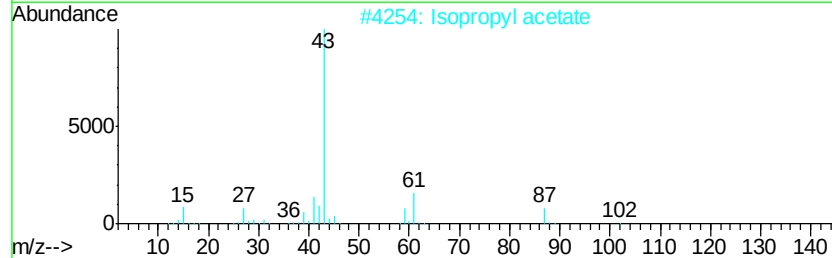
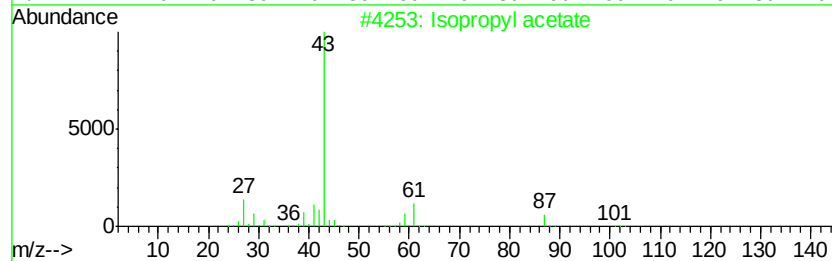
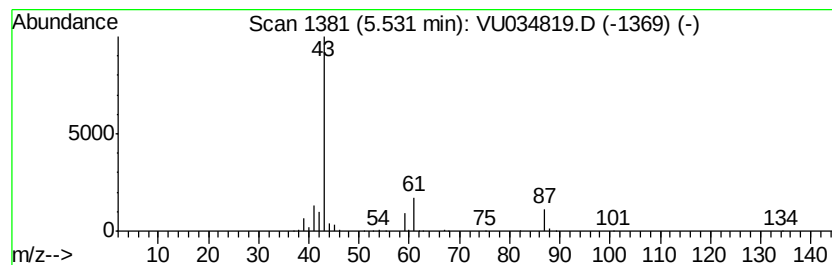
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Isopropyl acetate Concentration Rank 7

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.53 | 6.46 ug/L | 176491 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID        | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------|-----|---------|-------------|------|
| 1    | 5  | Isopropyl acetate   | 102 | C5H10O2 | 000108-21-4 | 78   |
| 2    |    | Isopropyl acetate   | 102 | C5H10O2 | 000108-21-4 | 78   |
| 3    |    | Isopropyl acetate   | 102 | C5H10O2 | 000108-21-4 | 78   |
| 4    |    | Isopropyl acetate   | 102 | C5H10O2 | 000108-21-4 | 45   |
| 5    |    | 2-Pentanol, acetate | 130 | C7H14O2 | 000626-38-0 | 33   |



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Quant Title : VOC Analysis

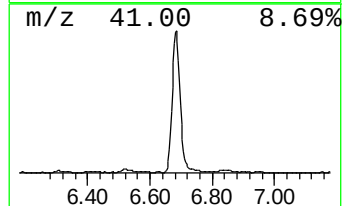
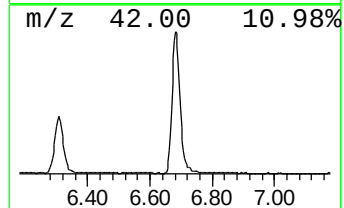
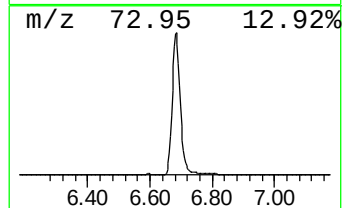
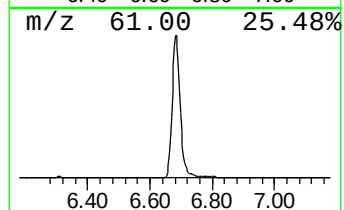
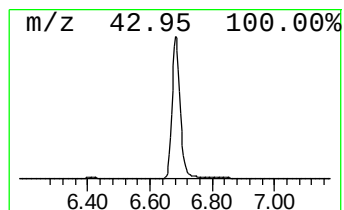
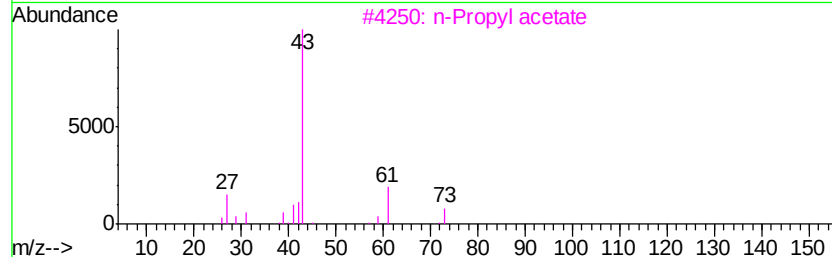
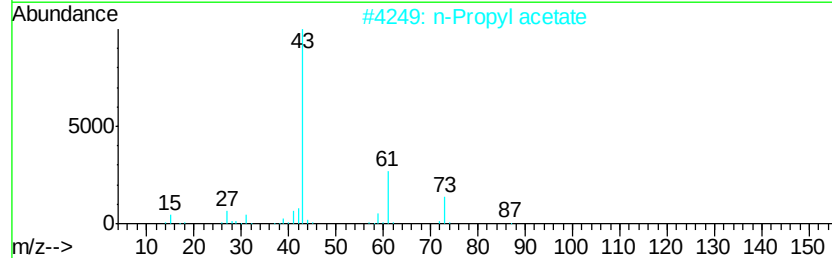
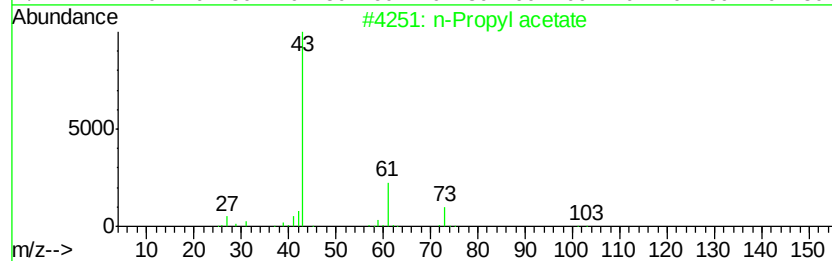
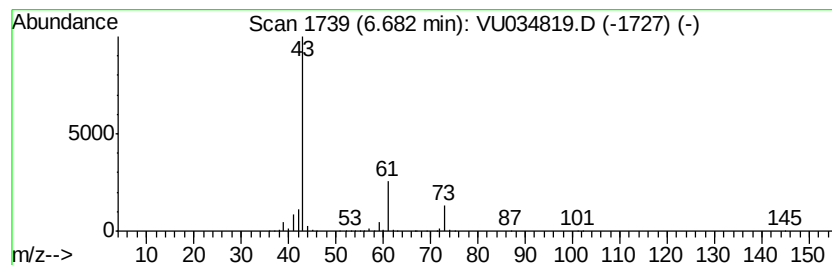
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.68 | 119.39 ug/L | 3264170 | 1,4-Difluorobenzene | 5.86 |

| Hit# of | 5                 | Tentative ID | MW      | MolForm     | CAS# | Qual |
|---------|-------------------|--------------|---------|-------------|------|------|
| 1       | n-Propyl acetate  | 102          | C5H10O2 | 000109-60-4 | 83   |      |
| 2       | n-Propyl acetate  | 102          | C5H10O2 | 000109-60-4 | 83   |      |
| 3       | n-Propyl acetate  | 102          | C5H10O2 | 000109-60-4 | 78   |      |
| 4       | Isopropyl acetate | 102          | C5H10O2 | 000108-21-4 | 38   |      |
| 5       | Isobutylamine     | 73           | C4H11N  | 000078-81-9 | 7    |      |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
BFDM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

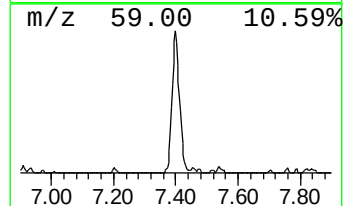
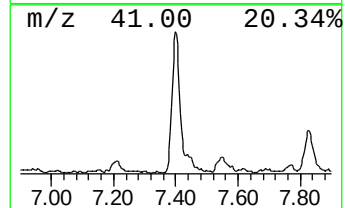
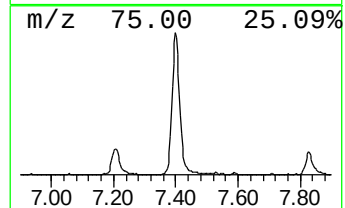
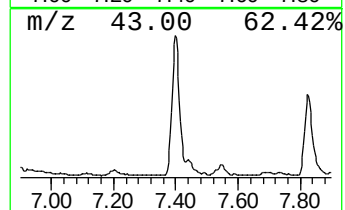
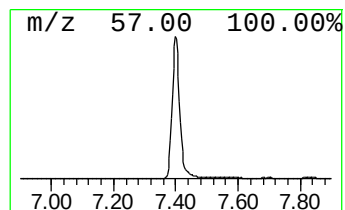
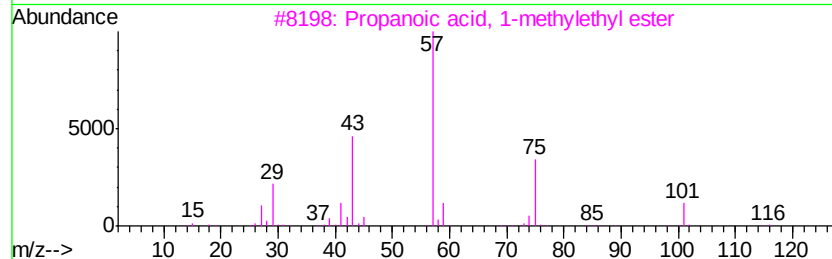
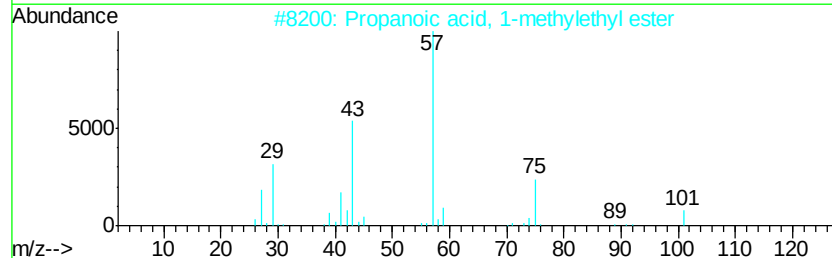
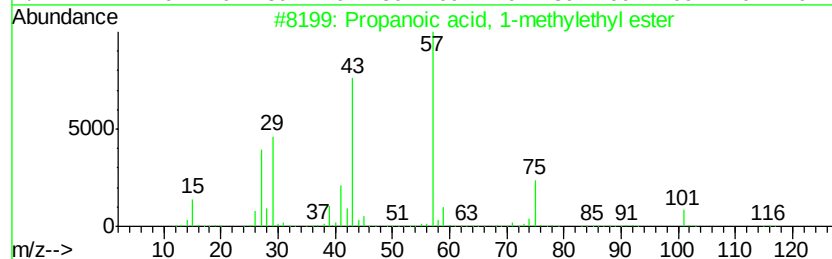
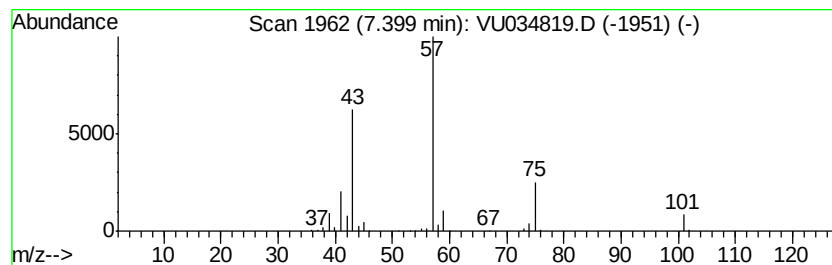
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Propanoic acid, 1-methyleth... Concentration Rank 6

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 7.40 | 13.51 ug/L | 369429 | 1,4-Difluorobenzene | 5.86 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83   |
| 2    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 83   |
| 3    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 78   |
| 4    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 64   |
| 5    |    | Propanoic acid, propyl ester        | 116 | C6H12O2 | 000106-36-5 | 42   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

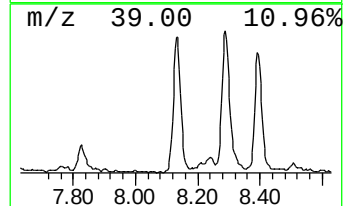
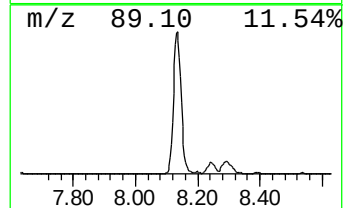
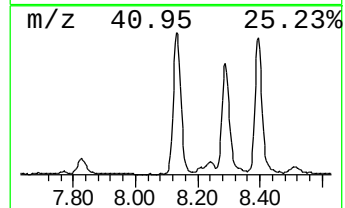
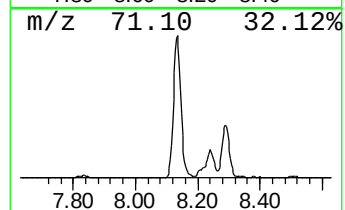
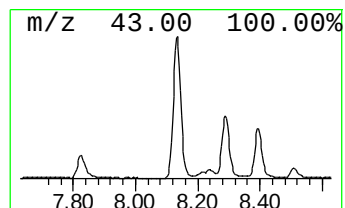
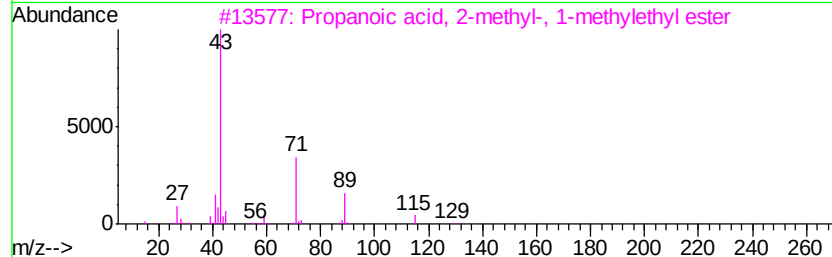
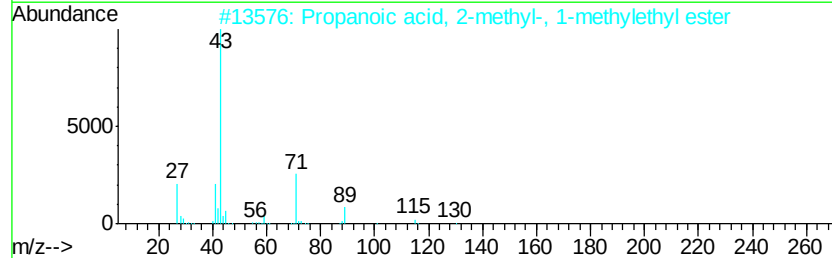
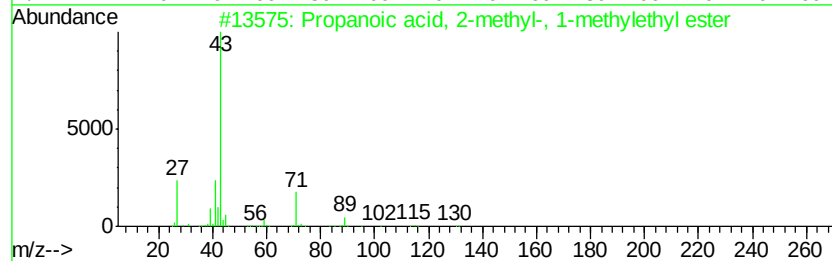
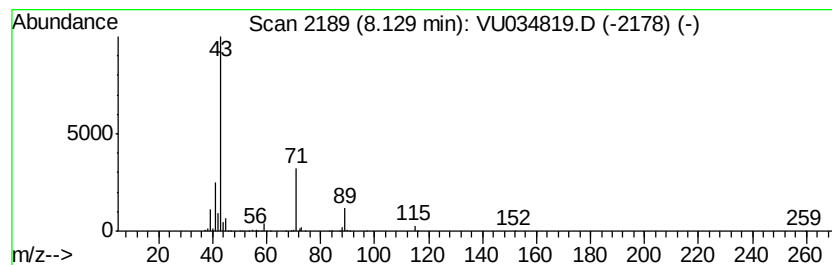
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Propanoic acid, 2-methyl-, ... Concentration Rank 4

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.13 | 23.53 ug/L | 675144 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 2    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 3    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72   |
| 4    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 59   |
| 5    |    | Butanoic acid, pentyl ester         | 158 | C9H18O2 | 000540-18-1 | 38   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFD4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

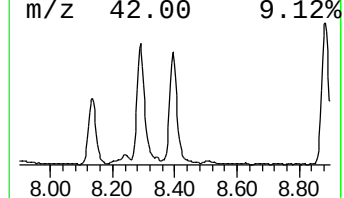
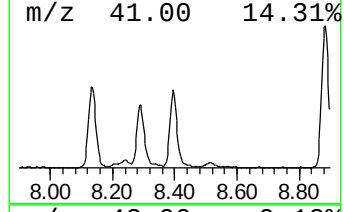
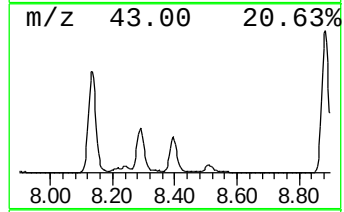
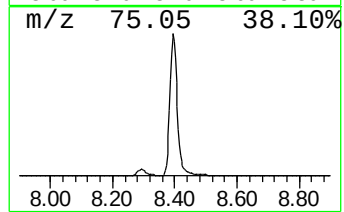
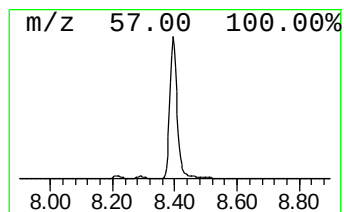
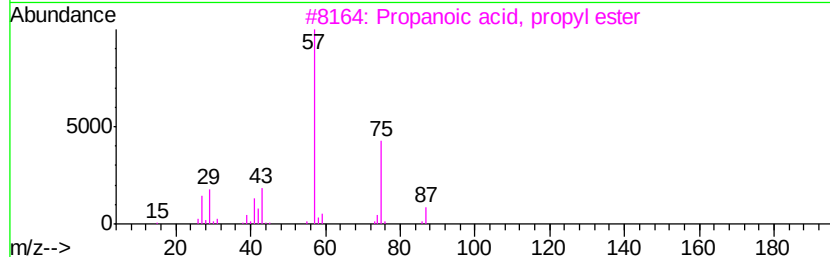
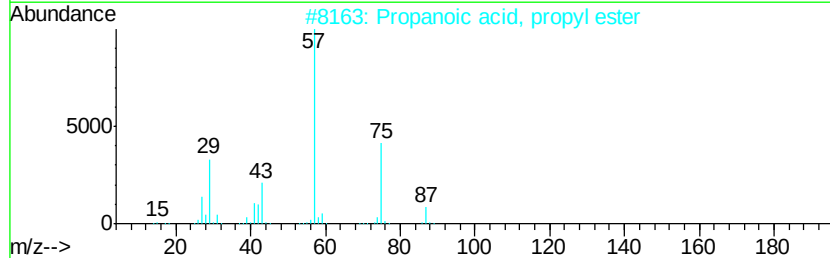
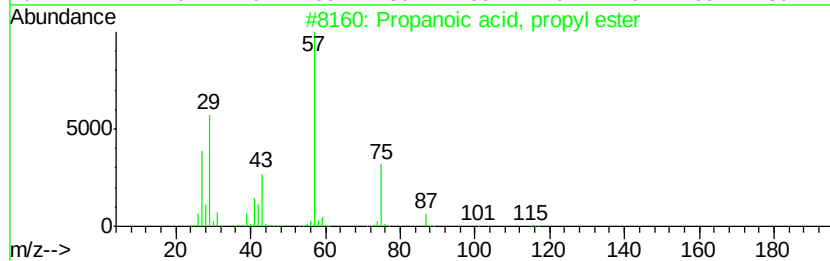
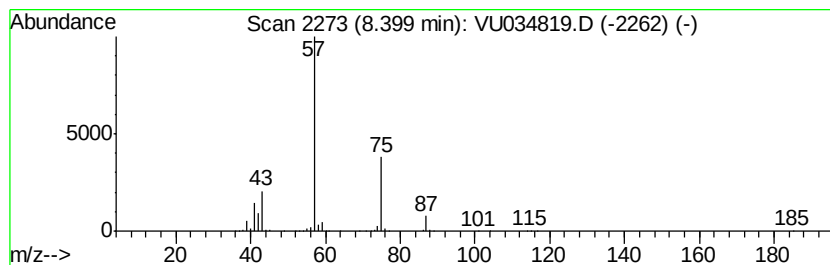
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 6 Propanoic acid, propyl ester Concentration Rank 3

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 8.40 | 36.07 ug/L | 1034900 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                 | MW  | MolForm | CAS#        | Qual |
|------|----|------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 2    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 83   |
| 3    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78   |
| 4    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 64   |
| 5    |    | Propanoic acid, butyl ester  | 130 | C7H14O2 | 000590-01-2 | 33   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

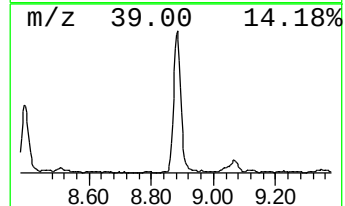
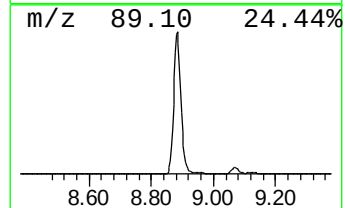
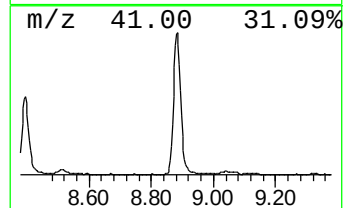
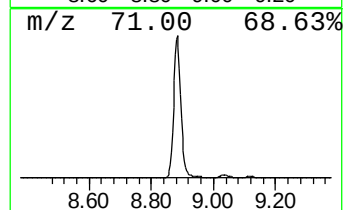
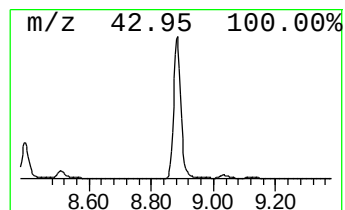
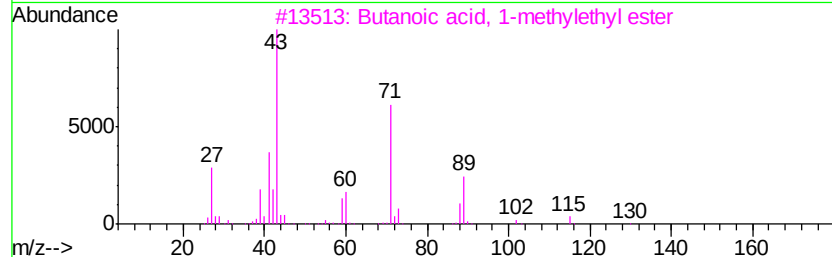
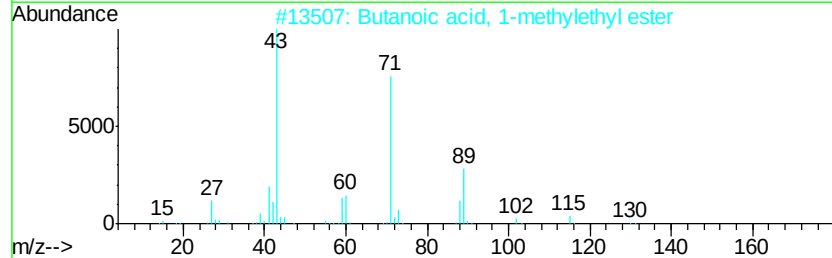
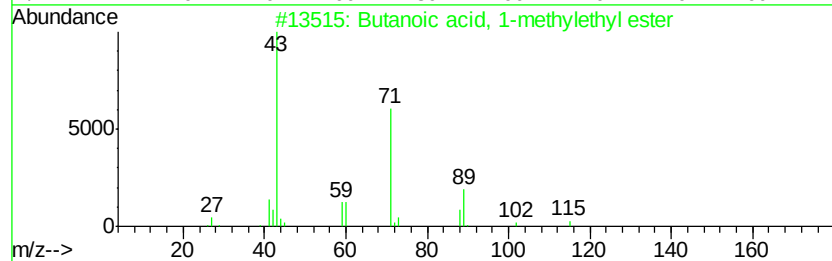
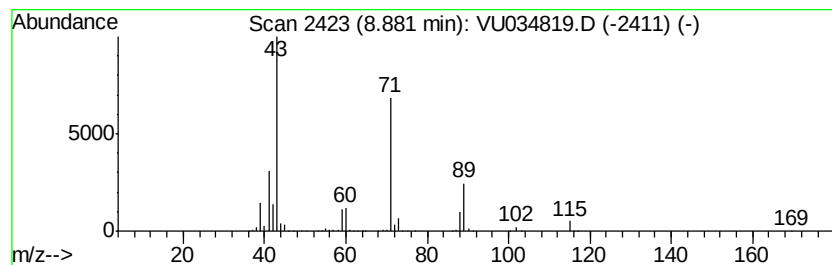
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 7 Butanoic acid, 1-methylethy... Concentration Rank 2

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 8.88 | 46.47 ug/L | 1333280 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 2    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 3    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 4    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 86   |
| 5    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM4

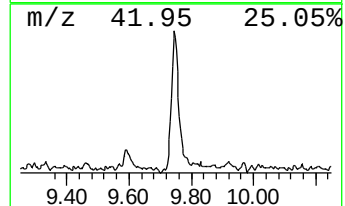
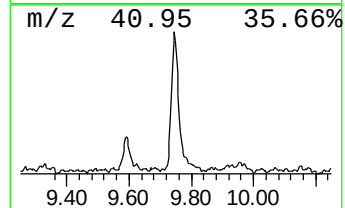
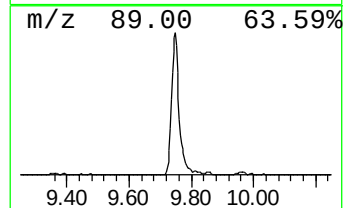
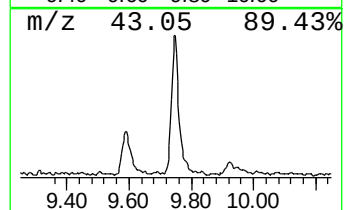
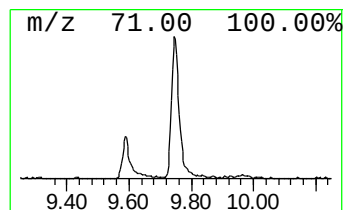
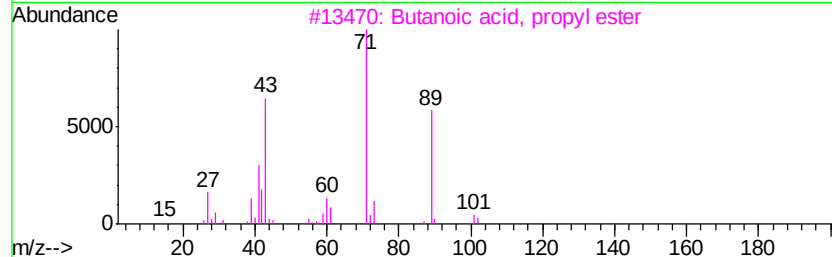
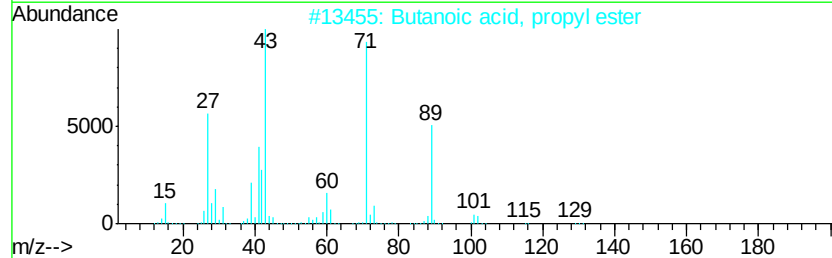
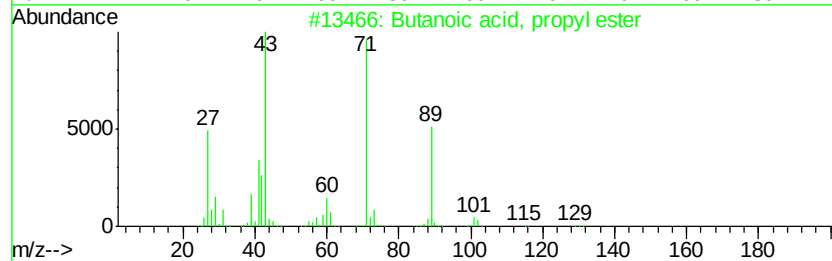
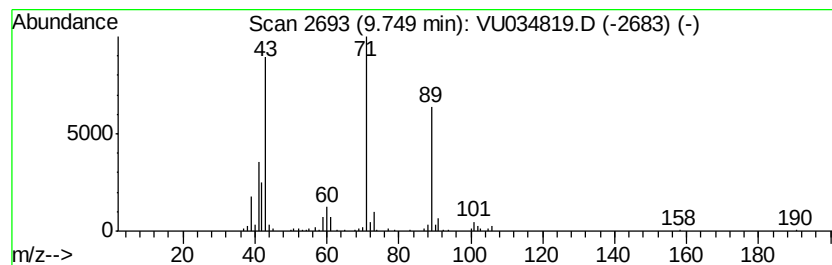
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 8 Butanoic acid, propyl ester Concentration Rank 8

| R.T. | EstConc   | Area   | Relative to ISTD | R.T. |
|------|-----------|--------|------------------|------|
| 9.75 | 5.88 ug/L | 168657 | Chlorobenzene-d5 | 9.07 |

| Hit# | of | 5 | Tentative ID                         | MW  | MolForm  | CAS#        | Qual |
|------|----|---|--------------------------------------|-----|----------|-------------|------|
| 1    |    |   | Butanoic acid, propyl ester          | 130 | C7H14O2  | 000105-66-8 | 90   |
| 2    |    |   | Butanoic acid, propyl ester          | 130 | C7H14O2  | 000105-66-8 | 90   |
| 3    |    |   | Butanoic acid, propyl ester          | 130 | C7H14O2  | 000105-66-8 | 86   |
| 4    |    |   | Propanoic acid, 2-methyl-, propyl... | 130 | C7H14O2  | 000644-49-5 | 78   |
| 5    |    |   | Butanoic acid, octyl ester           | 200 | C12H24O2 | 000110-39-4 | 78   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU092519\  
Data File : VU034819.D  
Acq On : 25 Sep 2019 21:54  
Operator : JC/SP  
Sample : K4983-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFDM4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091919WMA.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 acetate    | 5.53 | 6.5     | ug/L  | 176491   | 1                     | 5.86 | 1367080 | 50.0 |
| n-Propyl acetate     | 6.68 | 119.4   | ug/L  | 3264170  | 1                     | 5.86 | 1367080 | 50.0 |
| Propanoic acid, 1... | 7.40 | 13.5    | ug/L  | 369429   | 1                     | 5.86 | 1367080 | 50.0 |
| Propanoic acid, 2... | 8.13 | 23.5    | ug/L  | 675144   | 2                     | 9.07 | 1434690 | 50.0 |
| Propanoic acid, p... | 8.40 | 36.1    | ug/L  | 1034900  | 2                     | 9.07 | 1434690 | 50.0 |
| Butanoic acid, 1-... | 8.88 | 46.5    | ug/L  | 1333280  | 2                     | 9.07 | 1434690 | 50.0 |
| Butanoic acid, pr... | 9.75 | 5.9     | ug/L  | 168657   | 2                     | 9.07 | 1434690 | 50.0 |