

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
 Data File : VU032687.D  
 Acq On : 13 Jun 2019 12:27  
 Operator : JC/SP  
 Sample : K3286-12  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JP7

## 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 # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.180    | 24         | 28       | 35        | rVB   | 3515        | 3119       | 0.30%        | 0.041%     |
| 2      | 1.396    | 88         | 95       | 106       | rBV   | 71232       | 70560      | 6.74%        | 0.929%     |
| 3      | 1.675    | 175        | 182      | 198       | rBV   | 59271       | 73303      | 7.00%        | 0.965%     |
| 4      | 2.267    | 356        | 366      | 376       | rBV   | 119418      | 179870     | 17.17%       | 2.368%     |
| 5      | 2.318    | 377        | 382      | 396       | rVB   | 10559       | 16689      | 1.59%        | 0.220%     |
| 6      | 2.489    | 433        | 435      | 440       | rVB2  | 425         | 323        | 0.03%        | 0.004%     |
| 7      | 2.621    | 469        | 476      | 481       | rBV2  | 870         | 1305       | 0.12%        | 0.017%     |
| 8      | 2.698    | 491        | 500      | 511       | rVB2  | 7641        | 12864      | 1.23%        | 0.169%     |
| 9      | 2.900    | 560        | 563      | 571       | rVB2  | 250         | 255        | 0.02%        | 0.003%     |
| 10     | 2.942    | 571        | 576      | 579       | rBV2  | 277         | 298        | 0.03%        | 0.004%     |
| 11     | 2.990    | 588        | 591      | 599       | rBV2  | 198         | 272        | 0.03%        | 0.004%     |
| 12     | 3.074    | 611        | 617      | 620       | rBV   | 230         | 245        | 0.02%        | 0.003%     |
| 13     | 3.315    | 686        | 692      | 694       | rBV2  | 220         | 194        | 0.02%        | 0.003%     |
| 14     | 3.373    | 706        | 710      | 718       | rVB2  | 164         | 184        | 0.02%        | 0.002%     |
| 15     | 3.785    | 831        | 838      | 840       | rBV   | 176         | 200        | 0.02%        | 0.003%     |
| 16     | 3.891    | 867        | 871      | 874       | rBV2  | 204         | 170        | 0.02%        | 0.002%     |
| 17     | 3.994    | 898        | 903      | 906       | rBV2  | 157         | 164        | 0.02%        | 0.002%     |
| 18     | 4.058    | 918        | 923      | 926       | rVB2  | 179         | 192        | 0.02%        | 0.003%     |
| 19     | 4.170    | 940        | 958      | 994       | rBV   | 63475       | 168166     | 16.05%       | 2.214%     |
| 20     | 4.457    | 1045       | 1047     | 1050      | rVB2  | 350         | 186        | 0.02%        | 0.002%     |
| 21     | 4.569    | 1076       | 1082     | 1085      | rBV2  | 290         | 327        | 0.03%        | 0.004%     |
| 22     | 4.640    | 1088       | 1104     | 1129      | rVV   | 100393      | 233775     | 22.32%       | 3.077%     |
| 23     | 4.778    | 1140       | 1147     | 1151      | rVB3  | 340         | 367        | 0.04%        | 0.005%     |
| 24     | 4.875    | 1175       | 1177     | 1181      | rVV2  | 224         | 158        | 0.02%        | 0.002%     |
| 25     | 4.897    | 1181       | 1184     | 1186      | rVV2  | 355         | 213        | 0.02%        | 0.003%     |
| 26     | 4.984    | 1208       | 1211     | 1214      | rVB2  | 303         | 196        | 0.02%        | 0.003%     |
| 27     | 5.029    | 1219       | 1225     | 1231      | rBV2  | 153         | 222        | 0.02%        | 0.003%     |
| 28     | 5.074    | 1236       | 1239     | 1244      | rVB2  | 165         | 161        | 0.02%        | 0.002%     |
| 29     | 5.244    | 1288       | 1292     | 1296      | rVB2  | 186         | 164        | 0.02%        | 0.002%     |
| 30     | 5.334    | 1298       | 1320     | 1346      | rBV2  | 191528      | 567057     | 54.14%       | 7.465%     |
| 31     | 5.553    | 1379       | 1388     | 1403      | rBV3  | 3342        | 7662       | 0.73%        | 0.101%     |
| 32     | 5.637    | 1412       | 1414     | 1420      | rVB2  | 294         | 238        | 0.02%        | 0.003%     |
| 33     | 5.807    | 1461       | 1467     | 1468      | rBV   | 339         | 261        | 0.02%        | 0.003%     |
| 34     | 5.881    | 1468       | 1490     | 1514      | rBV   | 216014      | 455726     | 43.51%       | 5.999%     |

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 C0JP7

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 Sampling : 1  
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Filtering: 5  
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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\SOMULM060619WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 6.325  | 1615 | 1628 | 1651 | rBV  | 132912 | 265243  | 25.32%  | 3.492%  |
| 36 | 6.424  | 1652 | 1659 | 1675 | rVB2 | 5569   | 11012   | 1.05%   | 0.145%  |
| 37 | 6.534  | 1688 | 1693 | 1700 | rBV4 | 1424   | 1783    | 0.17%   | 0.023%  |
| 38 | 6.579  | 1701 | 1707 | 1714 | rBV  | 3886   | 6230    | 0.59%   | 0.082%  |
| 39 | 6.698  | 1732 | 1744 | 1781 | rBV  | 580274 | 1047439 | 100.00% | 13.789% |
| 40 | 7.112  | 1871 | 1873 | 1878 | rVB2 | 345    | 261     | 0.02%   | 0.003%  |
| 41 | 7.225  | 1897 | 1908 | 1930 | rBV  | 74447  | 134122  | 12.80%  | 1.766%  |
| 42 | 7.344  | 1943 | 1945 | 1952 | rVB2 | 456    | 424     | 0.04%   | 0.006%  |
| 43 | 7.415  | 1952 | 1967 | 1996 | rBV  | 108075 | 193419  | 18.47%  | 2.546%  |
| 44 | 7.559  | 2000 | 2012 | 2033 | rBV  | 252320 | 446469  | 42.62%  | 5.877%  |
| 45 | 7.846  | 2091 | 2101 | 2120 | rBV2 | 58201  | 103165  | 9.85%   | 1.358%  |
| 46 | 8.151  | 2184 | 2196 | 2212 | rBV  | 58131  | 98748   | 9.43%   | 1.300%  |
| 47 | 8.257  | 2215 | 2229 | 2235 | rVV2 | 24968  | 46896   | 4.48%   | 0.617%  |
| 48 | 8.305  | 2235 | 2244 | 2266 | rVV  | 223239 | 400881  | 38.27%  | 5.277%  |
| 49 | 8.411  | 2267 | 2277 | 2303 | rVV  | 415999 | 683609  | 65.26%  | 8.999%  |
| 50 | 8.524  | 2304 | 2312 | 2337 | rVB2 | 23056  | 44776   | 4.27%   | 0.589%  |
| 51 | 8.698  | 2362 | 2366 | 2367 | rBV2 | 219    | 154     | 0.01%   | 0.002%  |
| 52 | 8.900  | 2415 | 2429 | 2461 | rBV  | 286565 | 463508  | 44.25%  | 6.102%  |
| 53 | 9.083  | 2471 | 2486 | 2516 | rBV  | 312954 | 528121  | 50.42%  | 6.952%  |
| 54 | 9.315  | 2553 | 2558 | 2561 | rBV2 | 186    | 218     | 0.02%   | 0.003%  |
| 55 | 9.444  | 2594 | 2598 | 2600 | rBV2 | 242    | 207     | 0.02%   | 0.003%  |
| 56 | 9.608  | 2637 | 2649 | 2663 | rBV3 | 3744   | 7904    | 0.75%   | 0.104%  |
| 57 | 9.765  | 2690 | 2698 | 2716 | rVV  | 12065  | 20226   | 1.93%   | 0.266%  |
| 58 | 9.910  | 2740 | 2743 | 2748 | rVB2 | 319    | 279     | 0.03%   | 0.004%  |
| 59 | 9.935  | 2748 | 2751 | 2752 | rBV2 | 289    | 159     | 0.02%   | 0.002%  |
| 60 | 9.964  | 2756 | 2760 | 2765 | rBV3 | 242    | 265     | 0.03%   | 0.003%  |
| 61 | 10.009 | 2770 | 2774 | 2777 | rBV2 | 219    | 182     | 0.02%   | 0.002%  |
| 62 | 10.093 | 2796 | 2800 | 2803 | rBV2 | 389    | 298     | 0.03%   | 0.004%  |
| 63 | 10.109 | 2803 | 2805 | 2808 | rVV2 | 300    | 180     | 0.02%   | 0.002%  |
| 64 | 10.167 | 2819 | 2823 | 2825 | rBV  | 345    | 231     | 0.02%   | 0.003%  |
| 65 | 10.183 | 2825 | 2828 | 2835 | rVV3 | 234    | 254     | 0.02%   | 0.003%  |
| 66 | 10.273 | 2854 | 2856 | 2862 | rVB2 | 276    | 193     | 0.02%   | 0.003%  |
| 67 | 10.321 | 2869 | 2871 | 2878 | rVB3 | 301    | 291     | 0.03%   | 0.004%  |
| 68 | 10.427 | 2891 | 2904 | 2923 | rBV  | 205881 | 333099  | 31.80%  | 4.385%  |
| 69 | 10.514 | 2928 | 2931 | 2932 | rBV2 | 283    | 158     | 0.02%   | 0.002%  |
| 70 | 10.546 | 2938 | 2941 | 2943 | rBV  | 214    | 156     | 0.01%   | 0.002%  |
| 71 | 10.685 | 2981 | 2984 | 2990 | rBV2 | 168    | 152     | 0.01%   | 0.002%  |

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Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0JP7

## Integration Parameters: LSCINT.P

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

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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\SOMULM060619WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 10.768 | 3003 | 3010 | 3016 | rBV2 | 412    | 553    | 0.05%  | 0.007% |
| 73  | 10.797 | 3016 | 3019 | 3021 | rBV  | 237    | 165    | 0.02%  | 0.002% |
| 74  | 10.852 | 3033 | 3036 | 3039 | rBV  | 203    | 150    | 0.01%  | 0.002% |
| 75  | 10.897 | 3047 | 3050 | 3053 | rVV  | 325    | 229    | 0.02%  | 0.003% |
| 76  | 10.913 | 3053 | 3055 | 3059 | rVV2 | 251    | 198    | 0.02%  | 0.003% |
| 77  | 10.939 | 3059 | 3063 | 3066 | rVB  | 276    | 182    | 0.02%  | 0.002% |
| 78  | 11.080 | 3103 | 3107 | 3109 | rBV2 | 365    | 300    | 0.03%  | 0.004% |
| 79  | 11.247 | 3155 | 3159 | 3167 | rBV2 | 225    | 288    | 0.03%  | 0.004% |
| 80  | 11.366 | 3190 | 3196 | 3199 | rBV2 | 333    | 306    | 0.03%  | 0.004% |
| 81  | 11.479 | 3219 | 3231 | 3258 | rBV  | 313068 | 500891 | 47.82% | 6.594% |
| 82  | 11.675 | 3289 | 3292 | 3293 | rBV2 | 367    | 228    | 0.02%  | 0.003% |
| 83  | 11.752 | 3314 | 3316 | 3320 | rVB3 | 408    | 277    | 0.03%  | 0.004% |
| 84  | 11.787 | 3321 | 3327 | 3330 | rBV3 | 526    | 560    | 0.05%  | 0.007% |
| 85  | 11.855 | 3335 | 3348 | 3374 | rBV  | 272320 | 452852 | 43.23% | 5.961% |
| 86  | 12.099 | 3421 | 3424 | 3427 | rVB3 | 487    | 345    | 0.03%  | 0.005% |
| 87  | 12.148 | 3437 | 3439 | 3445 | rBV2 | 230    | 176    | 0.02%  | 0.002% |
| 88  | 12.296 | 3479 | 3485 | 3487 | rBV2 | 290    | 285    | 0.03%  | 0.004% |
| 89  | 12.315 | 3487 | 3491 | 3494 | rVV2 | 314    | 215    | 0.02%  | 0.003% |
| 90  | 12.479 | 3537 | 3542 | 3544 | rBV2 | 170    | 174    | 0.02%  | 0.002% |
| 91  | 12.694 | 3605 | 3609 | 3613 | rBV  | 222    | 203    | 0.02%  | 0.003% |
| 92  | 12.820 | 3645 | 3648 | 3652 | rBV2 | 300    | 251    | 0.02%  | 0.003% |
| 93  | 12.849 | 3654 | 3657 | 3660 | rBV  | 201    | 157    | 0.01%  | 0.002% |
| 94  | 13.482 | 3851 | 3854 | 3856 | rBV  | 243    | 172    | 0.02%  | 0.002% |
| 95  | 13.646 | 3902 | 3905 | 3909 | rBV2 | 204    | 181    | 0.02%  | 0.002% |
| 96  | 13.723 | 3925 | 3929 | 3932 | rBV2 | 228    | 191    | 0.02%  | 0.003% |
| 97  | 14.366 | 4126 | 4129 | 4132 | rBV  | 280    | 180    | 0.02%  | 0.002% |
| 98  | 14.443 | 4149 | 4153 | 4157 | rBV3 | 270    | 290    | 0.03%  | 0.004% |
| 99  | 14.636 | 4211 | 4213 | 4216 | rBV2 | 269    | 166    | 0.02%  | 0.002% |
| 100 | 15.855 | 4589 | 4592 | 4598 | rBV3 | 366    | 332    | 0.03%  | 0.004% |

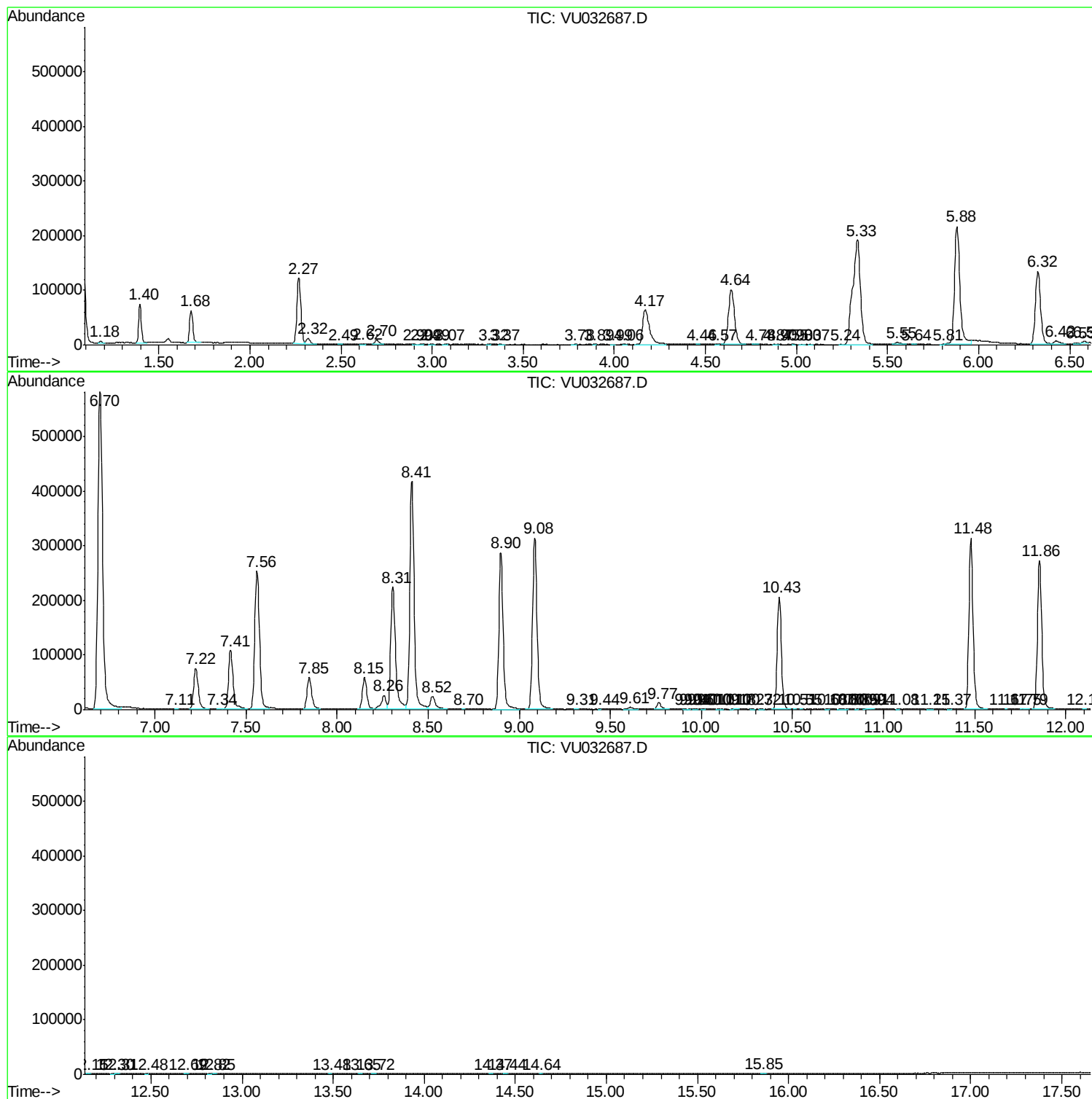
Sum of corrected areas: 7596295

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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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
Data File : VU032687.D  
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ClientSampleId :  
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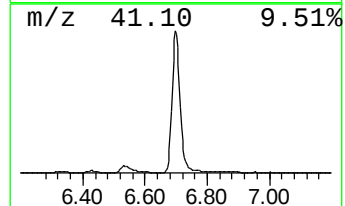
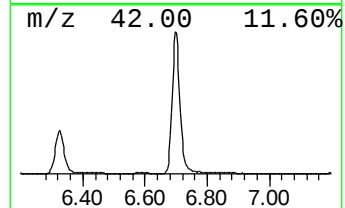
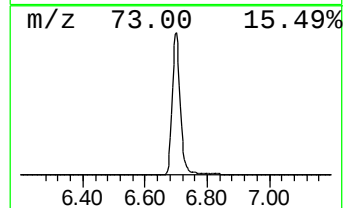
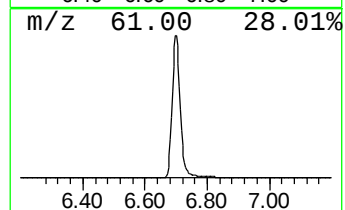
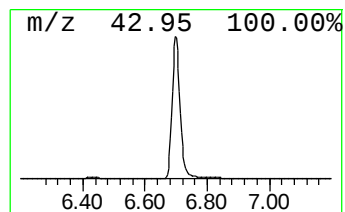
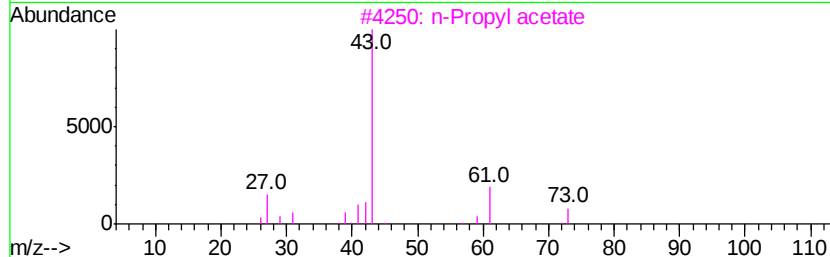
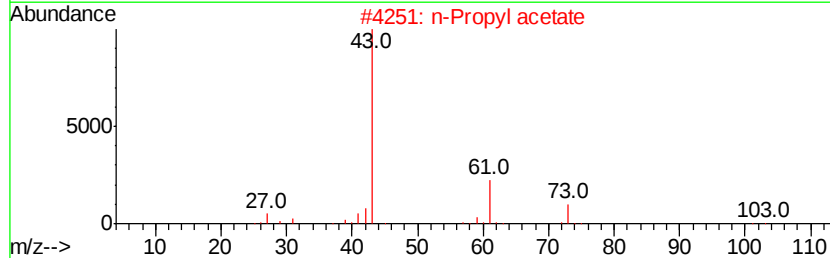
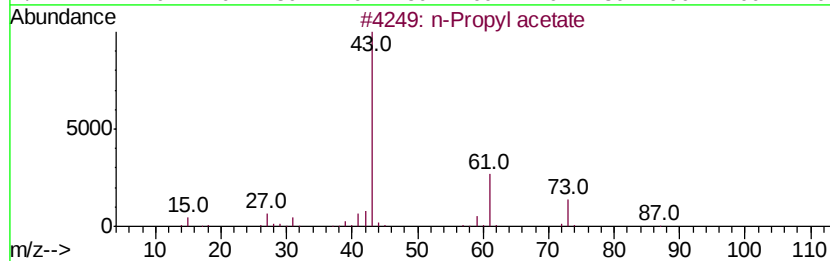
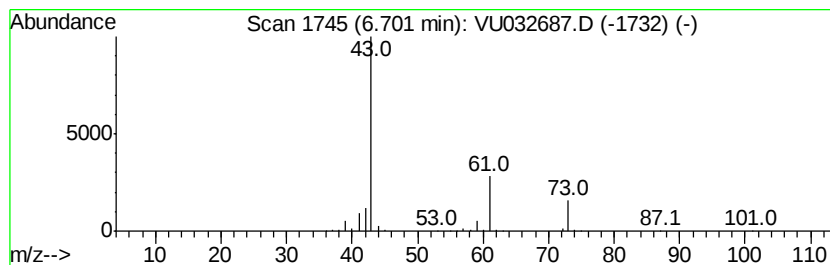
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 n-Propyl acetate Concentration Rank 1

| R.T. | EstConc     | Area    | Relative to ISTD    | R.T. |
|------|-------------|---------|---------------------|------|
| 6.70 | 114.92 ug/L | 1047440 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------|-----|---------|-------------|------|
| 1    | 5  | 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 | 36   |
| 5    |    | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 9    |



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Quant Title : VOC Analysis

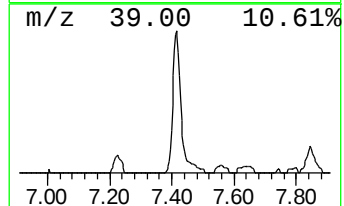
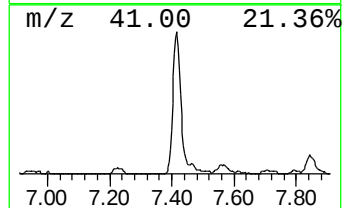
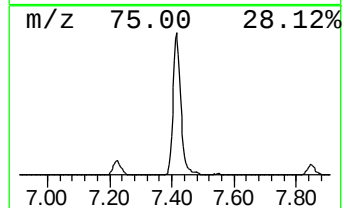
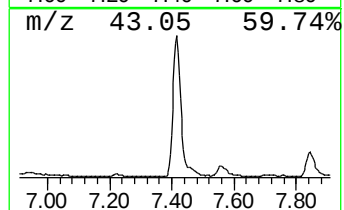
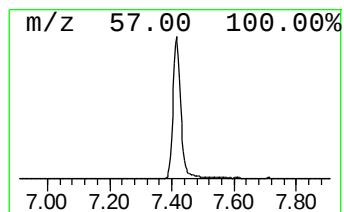
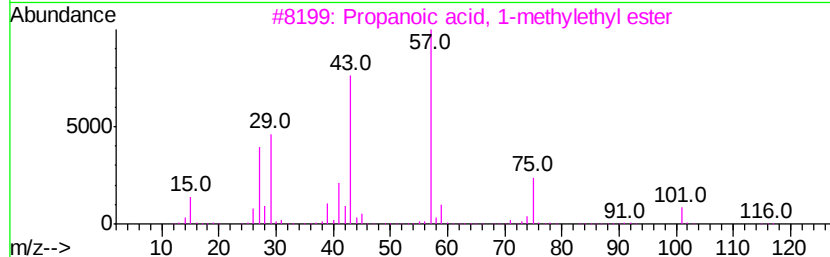
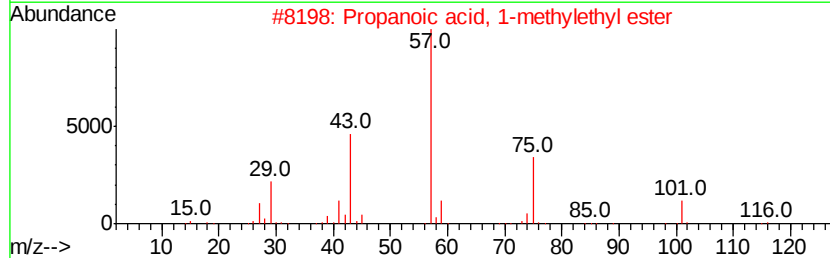
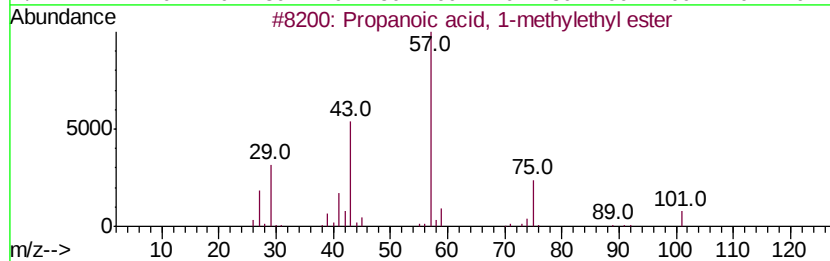
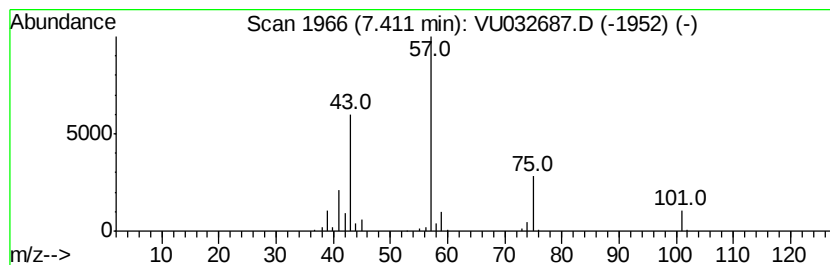
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 3 Propanoic acid, 1-methyleth... Concentration Rank 4

| R.T. | EstConc    | Area   | Relative to ISTD    | R.T. |
|------|------------|--------|---------------------|------|
| 7.41 | 21.22 ug/L | 193419 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 86   |
| 2    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 74   |
| 3    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 50   |
| 4    |    | Propanoic acid, 1-methylethyl ester | 116 | C6H12O2 | 000637-78-5 | 50   |
| 5    |    | Propanoic acid, propyl ester        | 116 | C6H12O2 | 000106-36-5 | 45   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
Data File : VU032687.D  
Acq On : 13 Jun 2019 12:27  
Operator : JC/SP  
Sample : K3286-12  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JP7

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

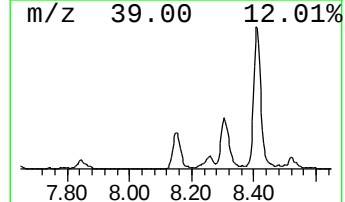
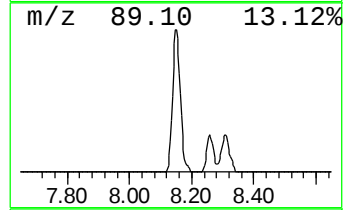
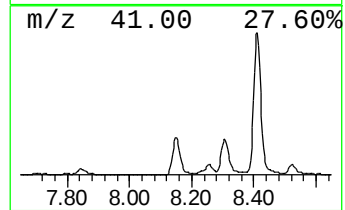
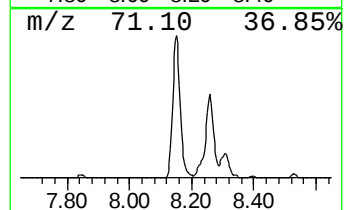
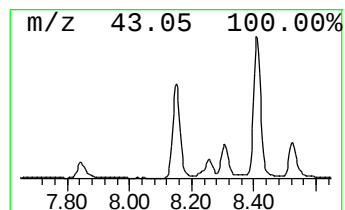
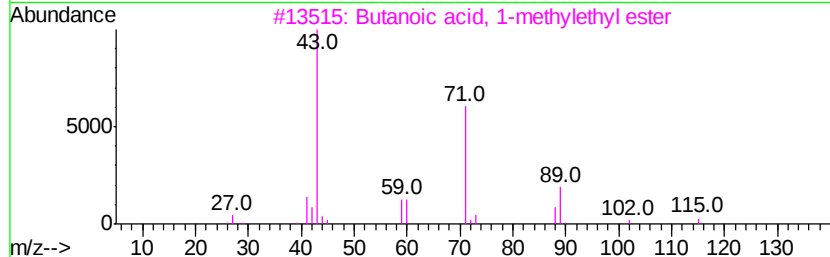
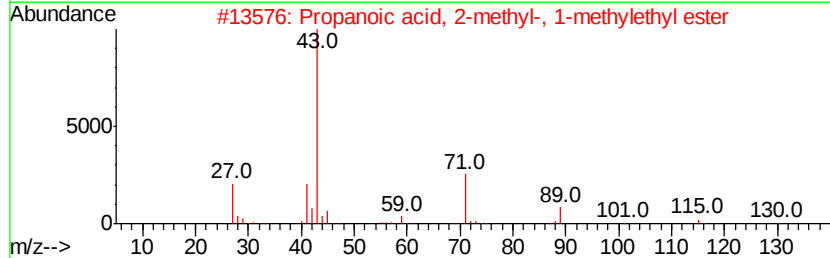
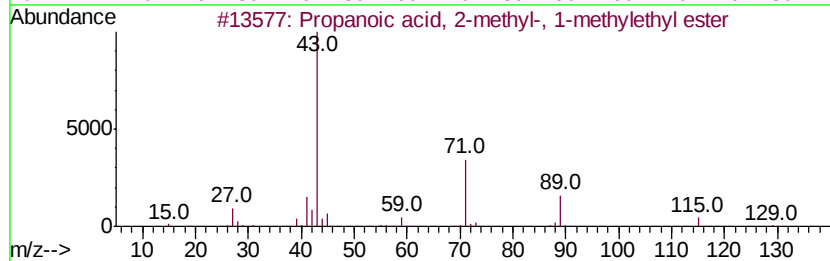
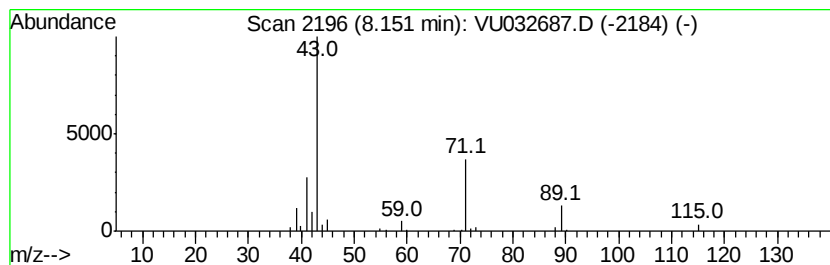
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 4 Propanoic acid, 2-methyl-, ... Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.15 | 9.35 ug/L | 98748 | Chlorobenzene-d5 | 9.08 |

| Hit# of | 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|---------|---|-------------------------------------|-----|---------|-------------|------|
| 1       |   | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 83   |
| 2       |   | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 78   |
| 3       |   | Butanoic acid, 1-methyl-ethyl ester | 130 | C7H14O2 | 000638-11-9 | 72   |
| 4       |   | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 72   |
| 5       |   | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 56   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
Data File : VU032687.D  
Acq On : 13 Jun 2019 12:27  
Operator : JC/SP  
Sample : K3286-12  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
C0JP7

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

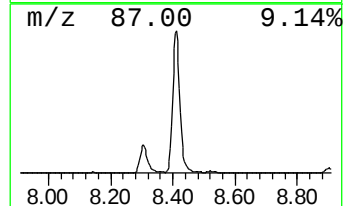
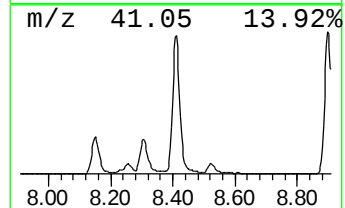
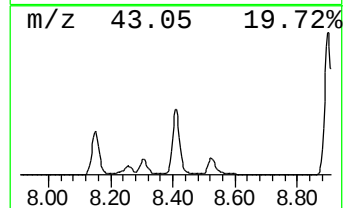
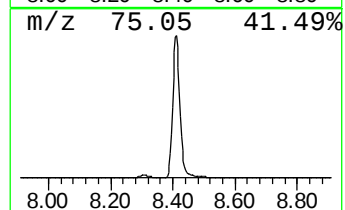
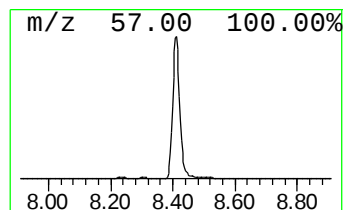
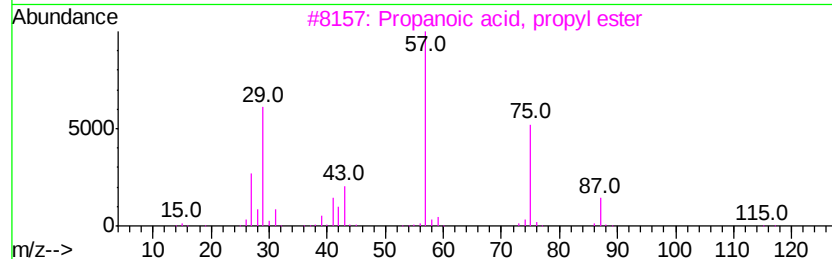
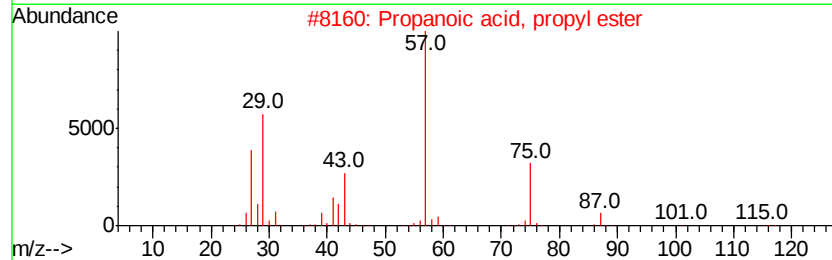
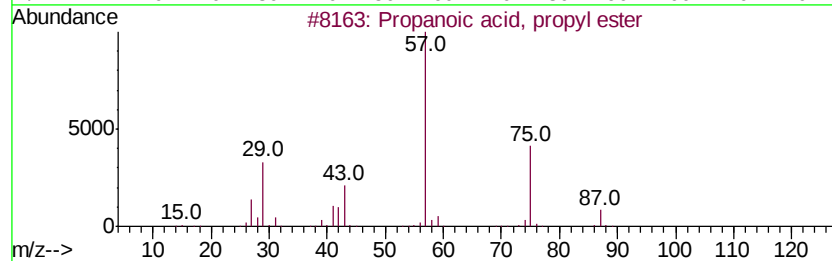
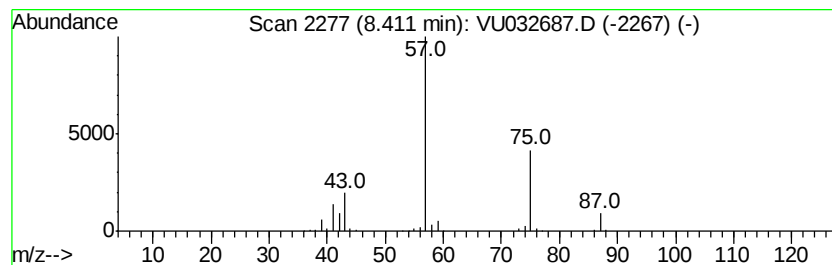
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 Propanoic acid, propyl ester Concentration Rank 2

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.41 | 64.72 ug/L | 683609 | Chlorobenzene-d5 | 9.08 |

| 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 | 83   |
| 4    |    | Propanoic acid, propyl ester | 116 | C6H12O2 | 000106-36-5 | 78   |
| 5    |    | Propanoic acid, butyl ester  | 130 | C7H14O2 | 000590-01-2 | 39   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
Data File : VU032687.D  
Acq On : 13 Jun 2019 12:27  
Operator : JC/SP  
Sample : K3286-12  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JP7

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

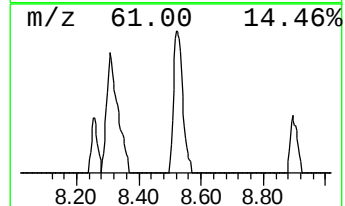
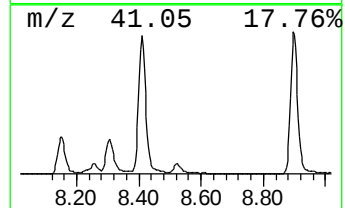
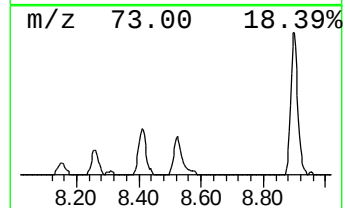
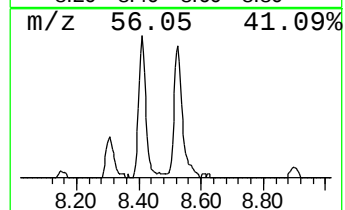
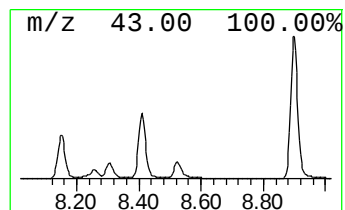
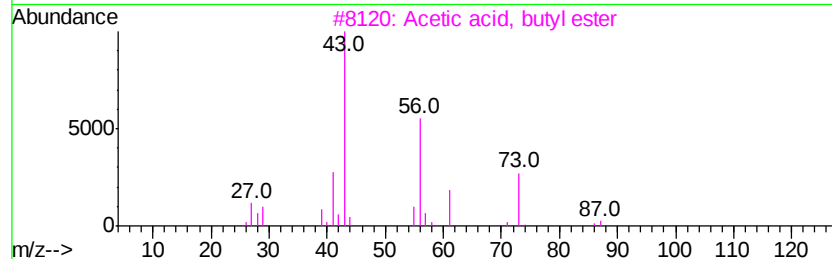
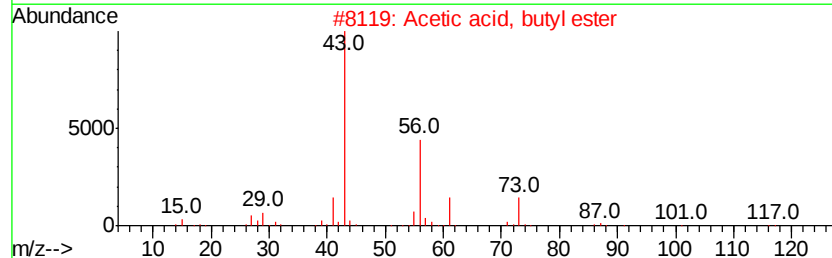
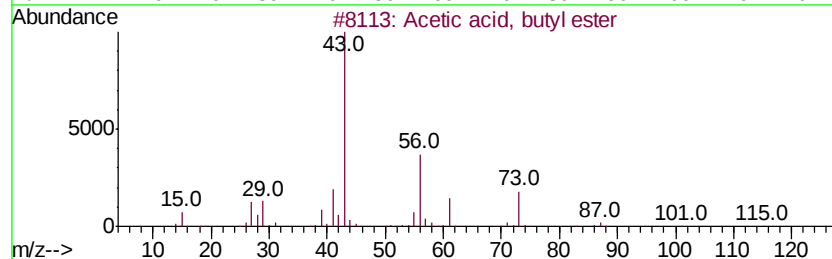
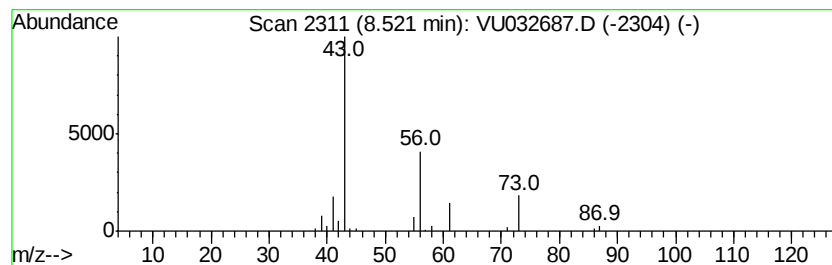
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Acetic acid, butyl ester Concentration Rank 7

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.52 | 4.24 ug/L | 44776 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                  | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Acetic acid, butyl ester      | 116 | C6H12O2   | 000123-86-4 | 83   |
| 2    |    | Acetic acid, butyl ester      | 116 | C6H12O2   | 000123-86-4 | 83   |
| 3    |    | Acetic acid, butyl ester      | 116 | C6H12O2   | 000123-86-4 | 78   |
| 4    |    | Acetic acid, butyl ester      | 116 | C6H12O2   | 000123-86-4 | 64   |
| 5    |    | 1-Butanol, 4-chloro-, acetate | 150 | C6H11ClO2 | 006962-92-1 | 23   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061319\  
Data File : VU032687.D  
Acq On : 13 Jun 2019 12:27  
Operator : JC/SP  
Sample : K3286-12  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JP7

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

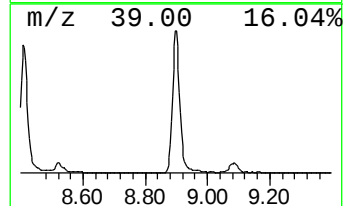
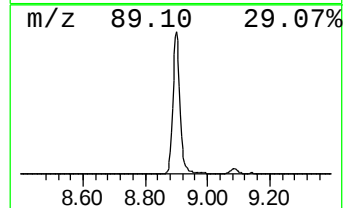
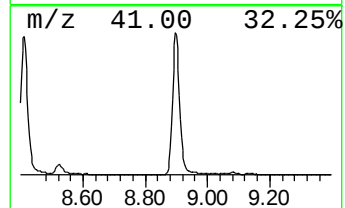
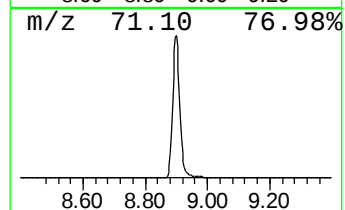
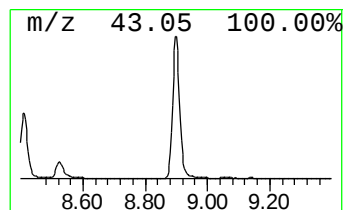
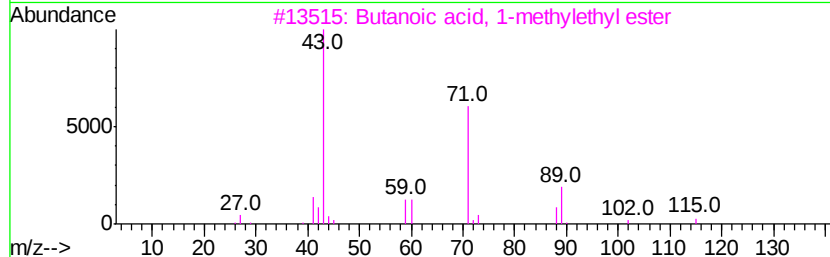
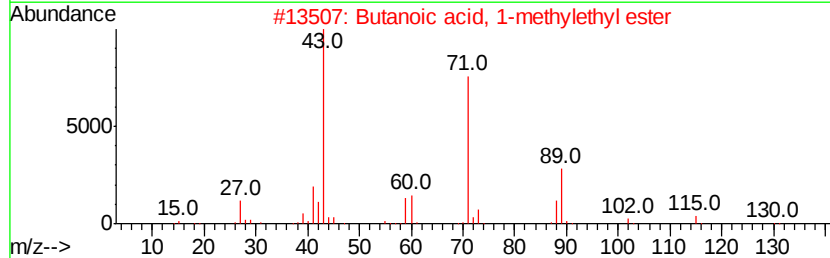
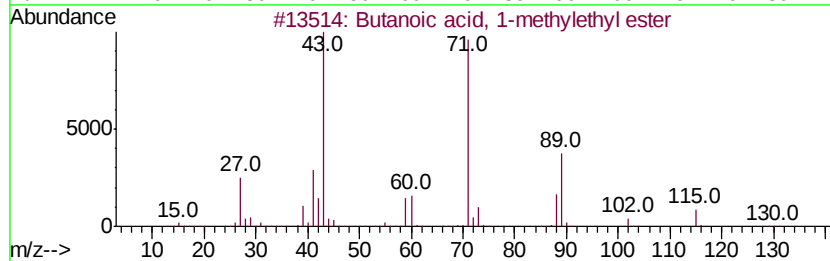
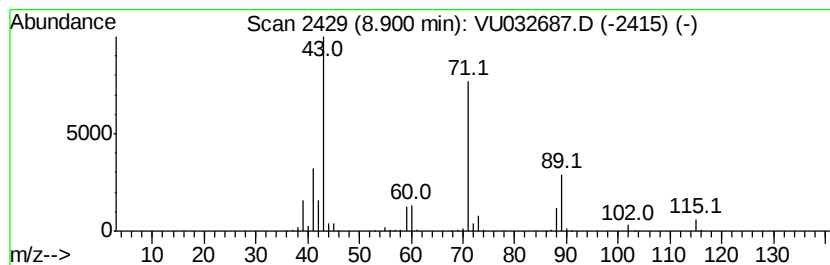
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 Butanoic acid, 1-methylethy... Concentration Rank 3

| R.T. | EstConc    | Area   | Relative to ISTD | R.T. |
|------|------------|--------|------------------|------|
| 8.90 | 43.88 ug/L | 463508 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 91   |
| 2    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 90   |
| 3    |    | Butanoic acid, 1-methylethyl ester  | 130 | C7H14O2 | 000638-11-9 | 83   |
| 4    |    | Propanoic acid, 2-methyl-, 1-met... | 130 | C7H14O2 | 000617-50-5 | 78   |
| 5    |    | Propanoic acid, 2-methyl-, propy... | 130 | C7H14O2 | 000644-49-5 | 72   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061319\  
Data File : VU032687.D  
Acq On : 13 Jun 2019 12:27  
Operator : JC/SP  
Sample : K3286-12  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
C0JP7

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.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 |
| n-Propyl acetate     | 6.70 | 114.9   | ug/L  | 1047440  | 1                     | 5.88 | 455726 | 50.0 |
| Propanoic acid, 1... | 7.41 | 21.2    | ug/L  | 193419   | 1                     | 5.88 | 455726 | 50.0 |
| Propanoic acid, 2... | 8.15 | 9.3     | ug/L  | 98748    | 2                     | 9.08 | 528121 | 50.0 |
| Propanoic acid, p... | 8.41 | 64.7    | ug/L  | 683609   | 2                     | 9.08 | 528121 | 50.0 |
| Acetic acid, buty... | 8.52 | 4.2     | ug/L  | 44776    | 2                     | 9.08 | 528121 | 50.0 |
| Butanoic acid, 1-... | 8.90 | 43.9    | ug/L  | 463508   | 2                     | 9.08 | 528121 | 50.0 |