

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU061019\  
 Data File : VU032579.D  
 Acq On : 10 Jun 2019 20:48  
 Operator : JC/SP  
 Sample : K3277-15  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 28 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB8C0

## 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    | 23         | 28       | 35        | rBV2  | 5684        | 6103       | 0.90%        | 0.096%     |
| 2      | 1.392    | 88         | 94       | 107       | rBV   | 93790       | 97229      | 14.32%       | 1.523%     |
| 3      | 1.470    | 112        | 118      | 130       | rVV   | 31436       | 33703      | 4.96%        | 0.528%     |
| 4      | 1.672    | 174        | 181      | 195       | rVB   | 73972       | 91945      | 13.54%       | 1.440%     |
| 5      | 2.267    | 352        | 366      | 376       | rBV   | 159831      | 248608     | 36.62%       | 3.893%     |
| 6      | 2.318    | 377        | 382      | 401       | rVB2  | 8736        | 14332      | 2.11%        | 0.224%     |
| 7      | 2.444    | 411        | 421      | 438       | rVB   | 14068       | 25143      | 3.70%        | 0.394%     |
| 8      | 2.942    | 565        | 576      | 588       | rVB2  | 1097        | 2355       | 0.35%        | 0.037%     |
| 9      | 3.190    | 649        | 653      | 658       | rVB3  | 345         | 388        | 0.06%        | 0.006%     |
| 10     | 3.302    | 681        | 688      | 691       | rBV   | 277         | 274        | 0.04%        | 0.004%     |
| 11     | 3.444    | 722        | 732      | 738       | rBV2  | 217         | 464        | 0.07%        | 0.007%     |
| 12     | 3.723    | 813        | 819      | 824       | rVB2  | 168         | 248        | 0.04%        | 0.004%     |
| 13     | 3.756    | 824        | 829      | 833       | rBV2  | 190         | 211        | 0.03%        | 0.003%     |
| 14     | 3.994    | 893        | 903      | 920       | rBV3  | 4258        | 10950      | 1.61%        | 0.171%     |
| 15     | 4.170    | 942        | 958      | 991       | rBV   | 69348       | 188090     | 27.71%       | 2.945%     |
| 16     | 4.640    | 1088       | 1104     | 1136      | rVB2  | 112860      | 266396     | 39.24%       | 4.171%     |
| 17     | 4.749    | 1136       | 1138     | 1143      | rVB3  | 421         | 254        | 0.04%        | 0.004%     |
| 18     | 4.797    | 1149       | 1153     | 1158      | rVB2  | 240         | 208        | 0.03%        | 0.003%     |
| 19     | 4.949    | 1193       | 1200     | 1204      | rBV3  | 248         | 338        | 0.05%        | 0.005%     |
| 20     | 4.974    | 1204       | 1208     | 1211      | rVV3  | 365         | 332        | 0.05%        | 0.005%     |
| 21     | 5.019    | 1212       | 1222     | 1233      | rVV3  | 1350        | 3059       | 0.45%        | 0.048%     |
| 22     | 5.077    | 1237       | 1240     | 1244      | rVV2  | 387         | 321        | 0.05%        | 0.005%     |
| 23     | 5.334    | 1297       | 1320     | 1343      | rBV2  | 232967      | 678839     | 100.00%      | 10.630%    |
| 24     | 5.582    | 1391       | 1397     | 1399      | rVV3  | 419         | 374        | 0.06%        | 0.006%     |
| 25     | 5.881    | 1476       | 1490     | 1520      | rBV   | 222762      | 435851     | 64.21%       | 6.825%     |
| 26     | 6.180    | 1570       | 1583     | 1605      | rBV   | 248000      | 483498     | 71.22%       | 7.571%     |
| 27     | 6.325    | 1614       | 1628     | 1649      | rBV   | 151341      | 300957     | 44.33%       | 4.713%     |
| 28     | 6.453    | 1662       | 1668     | 1673      | rBV5  | 510         | 599        | 0.09%        | 0.009%     |
| 29     | 6.540    | 1685       | 1695     | 1711      | rBV6  | 3576        | 8156       | 1.20%        | 0.128%     |
| 30     | 6.617    | 1715       | 1719     | 1723      | rVB2  | 378         | 325        | 0.05%        | 0.005%     |
| 31     | 6.678    | 1733       | 1738     | 1739      | rBV2  | 361         | 305        | 0.04%        | 0.005%     |
| 32     | 6.768    | 1762       | 1766     | 1769      | rBV   | 295         | 210        | 0.03%        | 0.003%     |
| 33     | 6.794    | 1772       | 1774     | 1781      | rVB   | 418         | 273        | 0.04%        | 0.004%     |
| 34     | 6.981    | 1827       | 1832     | 1838      | rVV2  | 187         | 228        | 0.03%        | 0.004%     |

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 Max Peaks: 100  
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 Peak separation: 5

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

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 35 | 7.109  | 1866 | 1872 | 1873 | rBV2 | 2546   | 1946   | 0.29%  | 0.030% |
| 36 | 7.222  | 1896 | 1907 | 1932 | rBV  | 86124  | 158255 | 23.31% | 2.478% |
| 37 | 7.469  | 1978 | 1984 | 1989 | rBV3 | 390    | 311    | 0.05%  | 0.005% |
| 38 | 7.559  | 1999 | 2012 | 2031 | rBV  | 319097 | 555587 | 81.84% | 8.700% |
| 39 | 7.845  | 2091 | 2101 | 2118 | rBV  | 58257  | 102175 | 15.05% | 1.600% |
| 40 | 8.151  | 2190 | 2196 | 2197 | rBV2 | 250    | 235    | 0.03%  | 0.004% |
| 41 | 8.167  | 2197 | 2201 | 2202 | rBV2 | 528    | 401    | 0.06%  | 0.006% |
| 42 | 8.228  | 2216 | 2220 | 2223 | rBV2 | 386    | 293    | 0.04%  | 0.005% |
| 43 | 8.305  | 2233 | 2244 | 2284 | rBV2 | 211654 | 406815 | 59.93% | 6.370% |
| 44 | 8.463  | 2284 | 2293 | 2314 | rVB2 | 23541  | 42158  | 6.21%  | 0.660% |
| 45 | 8.804  | 2393 | 2399 | 2401 | rBV  | 370    | 310    | 0.05%  | 0.005% |
| 46 | 8.816  | 2401 | 2403 | 2407 | rVV  | 245    | 213    | 0.03%  | 0.003% |
| 47 | 8.839  | 2407 | 2410 | 2413 | rVB2 | 377    | 218    | 0.03%  | 0.003% |
| 48 | 8.903  | 2424 | 2430 | 2431 | rBV3 | 255    | 223    | 0.03%  | 0.003% |
| 49 | 8.997  | 2455 | 2459 | 2463 | rBV2 | 251    | 243    | 0.04%  | 0.004% |
| 50 | 9.083  | 2474 | 2486 | 2522 | rBV  | 320143 | 536401 | 79.02% | 8.399% |
| 51 | 9.305  | 2548 | 2555 | 2556 | rBV3 | 1495   | 1281   | 0.19%  | 0.020% |
| 52 | 9.386  | 2573 | 2580 | 2590 | rBV8 | 1263   | 2503   | 0.37%  | 0.039% |
| 53 | 9.537  | 2624 | 2627 | 2630 | rVB3 | 456    | 289    | 0.04%  | 0.005% |
| 54 | 9.697  | 2673 | 2677 | 2678 | rBV2 | 328    | 226    | 0.03%  | 0.004% |
| 55 | 9.730  | 2679 | 2687 | 2700 | rVV6 | 1368   | 3045   | 0.45%  | 0.048% |
| 56 | 9.900  | 2737 | 2740 | 2745 | rVB  | 261    | 243    | 0.04%  | 0.004% |
| 57 | 9.932  | 2745 | 2750 | 2755 | rBV3 | 655    | 795    | 0.12%  | 0.012% |
| 58 | 10.029 | 2769 | 2780 | 2794 | rBV3 | 10587  | 18925  | 2.79%  | 0.296% |
| 59 | 10.080 | 2794 | 2796 | 2800 | rVB2 | 464    | 350    | 0.05%  | 0.005% |
| 60 | 10.382 | 2883 | 2890 | 2892 | rBV  | 350    | 324    | 0.05%  | 0.005% |
| 61 | 10.427 | 2892 | 2904 | 2930 | rVB  | 222080 | 358521 | 52.81% | 5.614% |
| 62 | 10.572 | 2945 | 2949 | 2953 | rBV2 | 288    | 289    | 0.04%  | 0.005% |
| 63 | 10.681 | 2978 | 2983 | 2986 | rBV2 | 223    | 235    | 0.03%  | 0.004% |
| 64 | 10.746 | 2994 | 3003 | 3012 | rBV4 | 2627   | 4488   | 0.66%  | 0.070% |
| 65 | 10.807 | 3018 | 3022 | 3027 | rVB2 | 457    | 439    | 0.06%  | 0.007% |
| 66 | 10.951 | 3059 | 3067 | 3070 | rBV4 | 710    | 1016   | 0.15%  | 0.016% |
| 67 | 10.980 | 3074 | 3076 | 3083 | rVB4 | 580    | 580    | 0.09%  | 0.009% |
| 68 | 11.048 | 3091 | 3097 | 3098 | rBV4 | 422    | 377    | 0.06%  | 0.006% |
| 69 | 11.087 | 3106 | 3109 | 3112 | rBV4 | 312    | 292    | 0.04%  | 0.005% |
| 70 | 11.157 | 3126 | 3131 | 3142 | rVB4 | 738    | 1227   | 0.18%  | 0.019% |
| 71 | 11.225 | 3150 | 3152 | 3155 | rBV2 | 317    | 227    | 0.03%  | 0.004% |

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

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 11.257 | 3155 | 3162 | 3175 | rBV3 | 3024   | 5084   | 0.75%  | 0.080% |
| 73  | 11.366 | 3184 | 3196 | 3219 | rBV2 | 39675  | 68218  | 10.05% | 1.068% |
| 74  | 11.479 | 3219 | 3231 | 3255 | rBV  | 334627 | 536037 | 78.96% | 8.394% |
| 75  | 11.752 | 3306 | 3316 | 3327 | rBV5 | 4774   | 10711  | 1.58%  | 0.168% |
| 76  | 11.855 | 3337 | 3348 | 3365 | rBV  | 318444 | 523206 | 77.07% | 8.193% |
| 77  | 11.971 | 3377 | 3384 | 3393 | rBV5 | 1801   | 2814   | 0.41%  | 0.044% |
| 78  | 12.070 | 3413 | 3415 | 3424 | rVB3 | 1159   | 1164   | 0.17%  | 0.018% |
| 79  | 12.160 | 3441 | 3443 | 3448 | rVB3 | 320    | 258    | 0.04%  | 0.004% |
| 80  | 12.186 | 3448 | 3451 | 3453 | rBV  | 424    | 230    | 0.03%  | 0.004% |
| 81  | 12.247 | 3463 | 3470 | 3471 | rBV3 | 2720   | 2846   | 0.42%  | 0.045% |
| 82  | 12.456 | 3532 | 3535 | 3536 | rBV3 | 509    | 289    | 0.04%  | 0.005% |
| 83  | 12.566 | 3559 | 3569 | 3595 | rBV2 | 66876  | 114775 | 16.91% | 1.797% |
| 84  | 12.861 | 3657 | 3661 | 3663 | rBV2 | 623    | 589    | 0.09%  | 0.009% |
| 85  | 12.910 | 3672 | 3676 | 3679 | rBV4 | 1040   | 882    | 0.13%  | 0.014% |
| 86  | 13.074 | 3722 | 3727 | 3729 | rBV5 | 651    | 639    | 0.09%  | 0.010% |
| 87  | 13.302 | 3794 | 3798 | 3802 | rBV3 | 562    | 708    | 0.10%  | 0.011% |
| 88  | 13.350 | 3808 | 3813 | 3814 | rBV2 | 636    | 478    | 0.07%  | 0.007% |
| 89  | 13.363 | 3814 | 3817 | 3818 | rBV  | 728    | 426    | 0.06%  | 0.007% |
| 90  | 13.463 | 3842 | 3848 | 3850 | rBV4 | 953    | 767    | 0.11%  | 0.012% |
| 91  | 13.553 | 3872 | 3876 | 3885 | rBV5 | 1083   | 1591   | 0.23%  | 0.025% |
| 92  | 13.668 | 3905 | 3912 | 3924 | rVB7 | 3994   | 7212   | 1.06%  | 0.113% |
| 93  | 13.826 | 3958 | 3961 | 3967 | rVV4 | 592    | 656    | 0.10%  | 0.010% |
| 94  | 13.922 | 3988 | 3991 | 3994 | rBV4 | 344    | 335    | 0.05%  | 0.005% |
| 95  | 14.025 | 4020 | 4023 | 4024 | rBV  | 392    | 211    | 0.03%  | 0.003% |
| 96  | 14.080 | 4036 | 4040 | 4041 | rBV2 | 375    | 280    | 0.04%  | 0.004% |
| 97  | 14.157 | 4060 | 4064 | 4067 | rBV4 | 457    | 371    | 0.05%  | 0.006% |
| 98  | 14.424 | 4140 | 4147 | 4155 | rBV7 | 1461   | 2645   | 0.39%  | 0.041% |
| 99  | 14.562 | 4188 | 4190 | 4195 | rVB3 | 357    | 245    | 0.04%  | 0.004% |
| 100 | 14.758 | 4249 | 4251 | 4256 | rBV4 | 490    | 430    | 0.06%  | 0.007% |

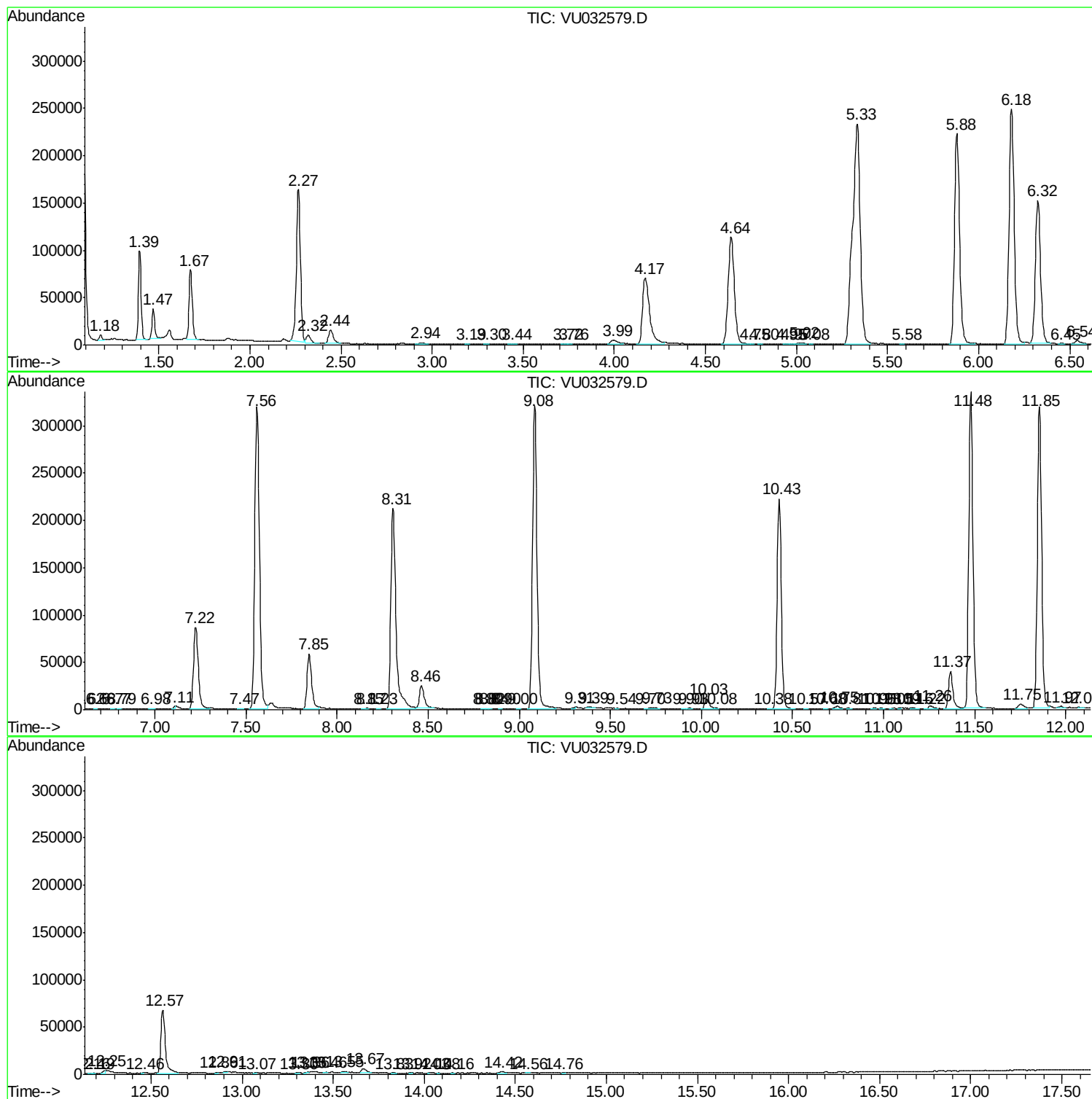
Sum of corrected areas: 6386119

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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
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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\VU061019\  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

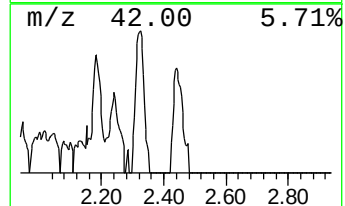
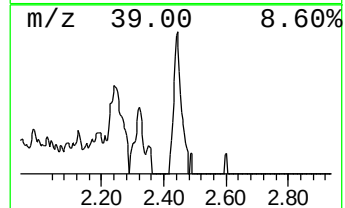
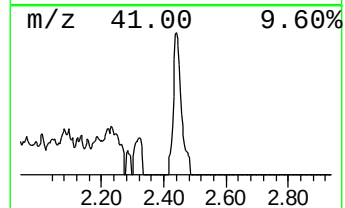
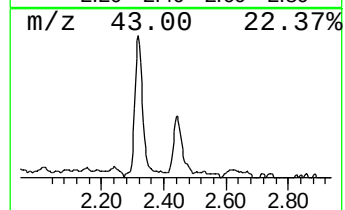
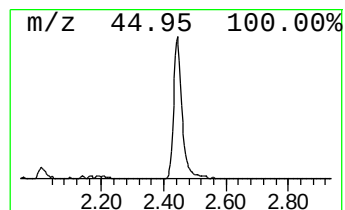
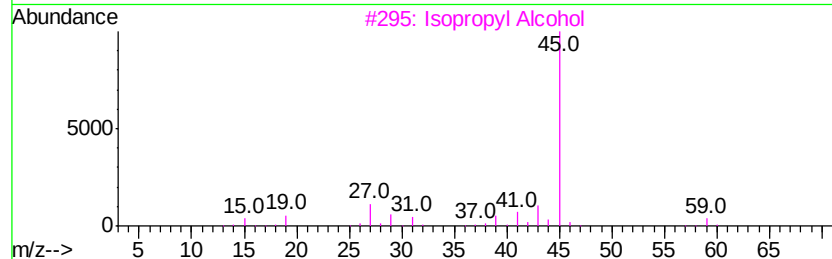
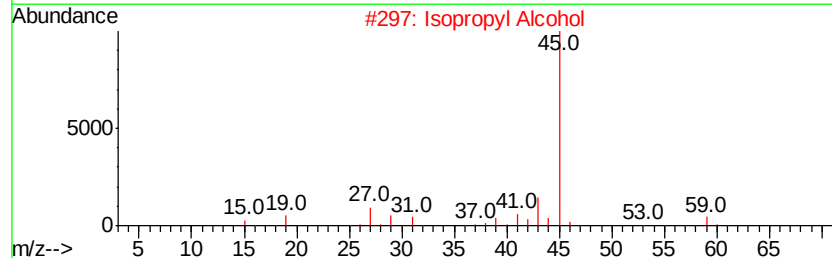
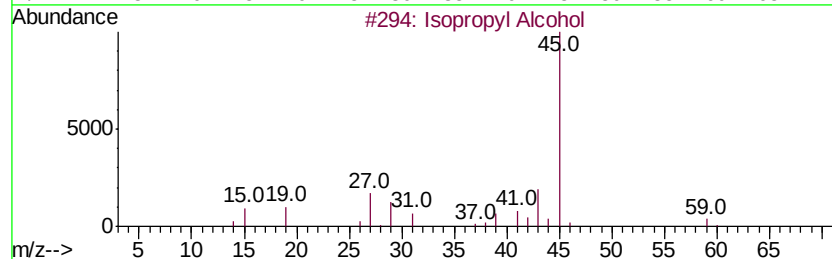
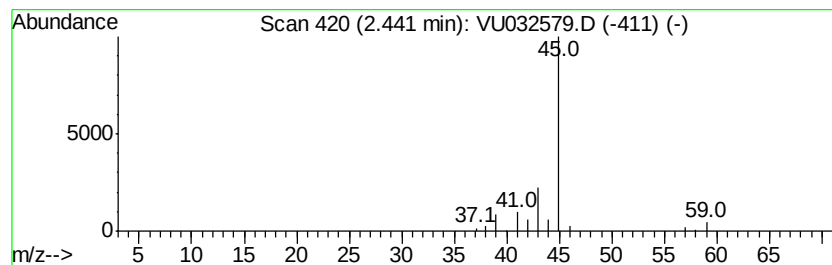
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 Isopropyl Alcohol Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 2.88 ug/L | 25143 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 3    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 4    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    | Ethylamine        | 45 | C2H7N   | 000075-04-7 | 4    |



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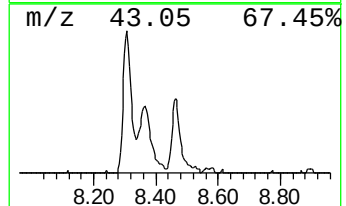
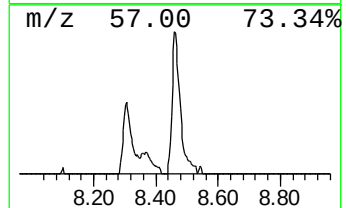
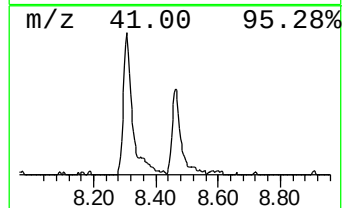
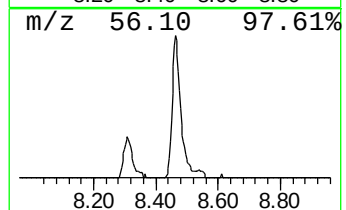
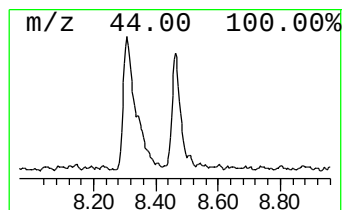
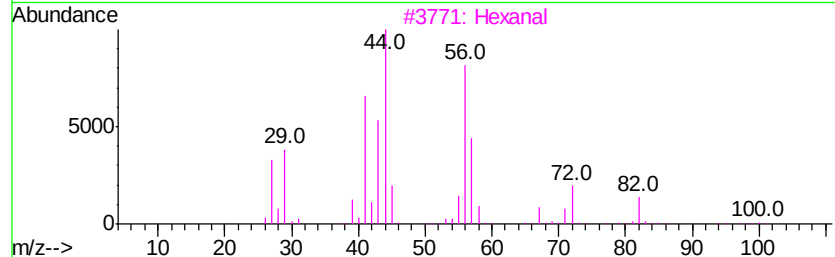
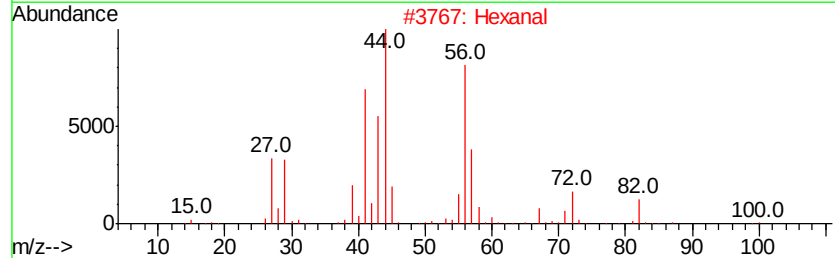
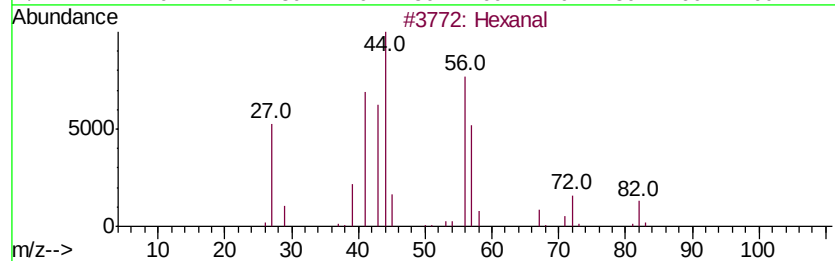
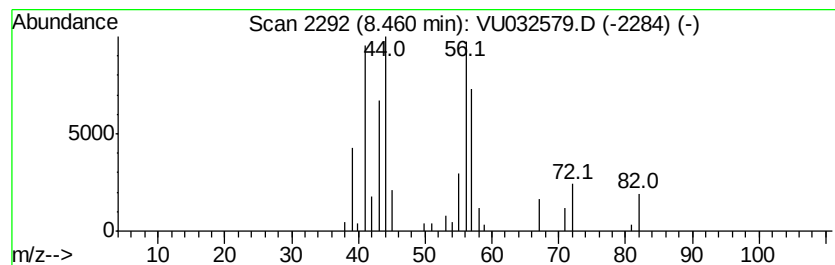
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM060619WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 4 Hexanal Concentration Rank 4

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 8.46 | 3.93 ug/L | 42158 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|----|-------------------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexanal                             | 100 | C6H12O  | 000066-25-1 | 80   |
| 2    |    | Hexanal                             | 100 | C6H12O  | 000066-25-1 | 80   |
| 3    |    | Hexanal                             | 100 | C6H12O  | 000066-25-1 | 72   |
| 4    |    | Hexanal                             | 100 | C6H12O  | 000066-25-1 | 72   |
| 5    |    | 2,2-Dimethyl-3-hydroxypropionald... | 102 | C5H10O2 | 000597-31-9 | 32   |



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ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8C0

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

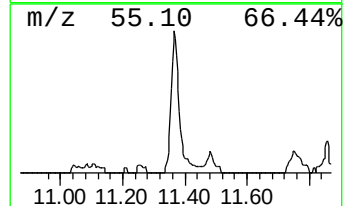
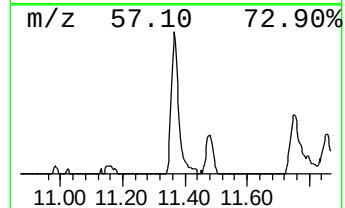
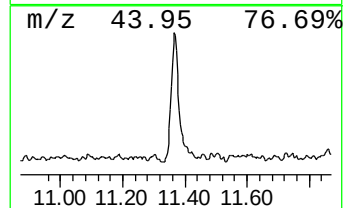
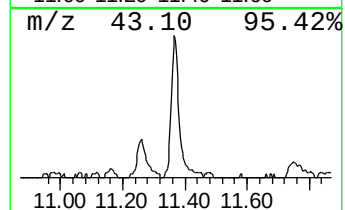
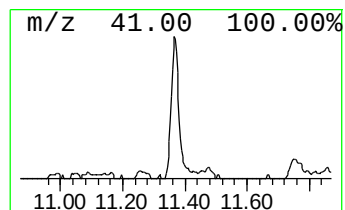
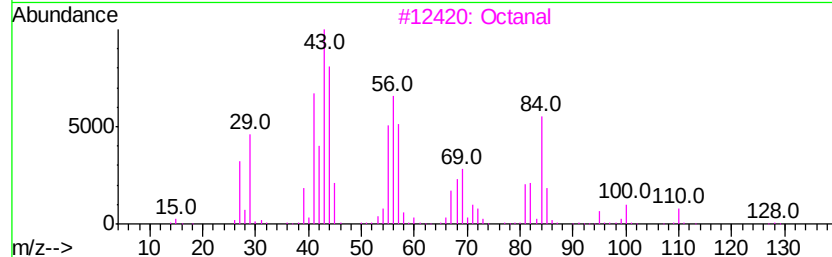
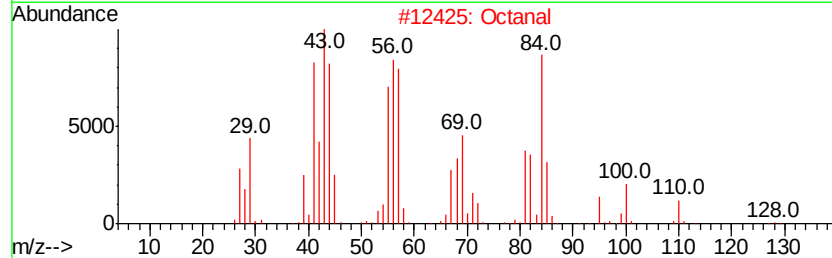
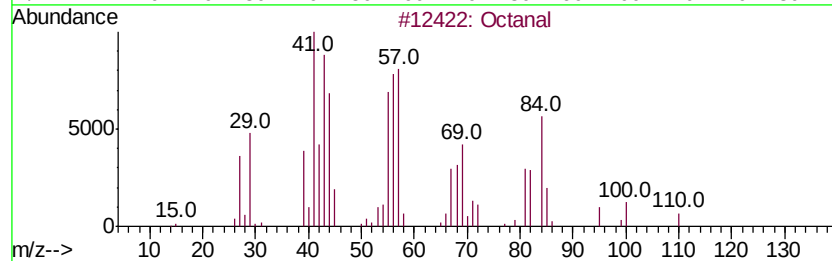
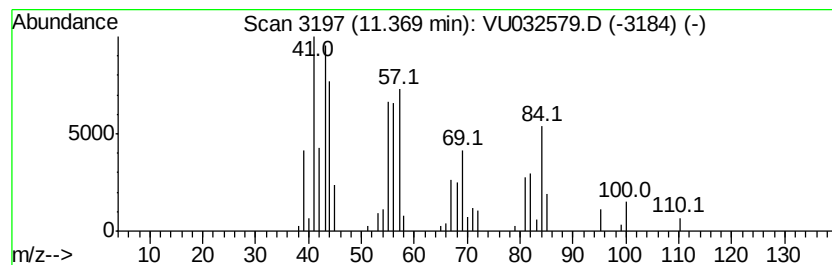
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 5 Octanal Concentration Rank 3

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.37 | 6.36 ug/L | 68218 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 2    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 3    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 4    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 91   |
| 5    |    | Octanal      | 128 | C8H16O  | 000124-13-0 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU061019\  
Data File : VU032579.D  
Acq On : 10 Jun 2019 20:48  
Operator : JC/SP  
Sample : K3277-15  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8C0

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

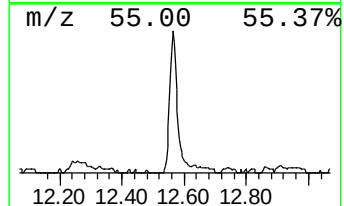
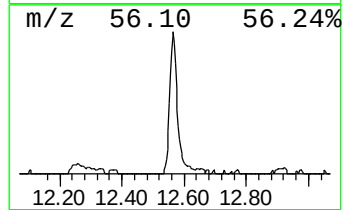
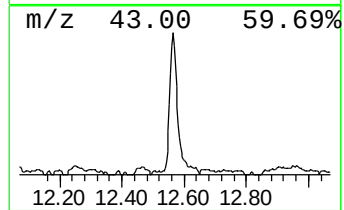
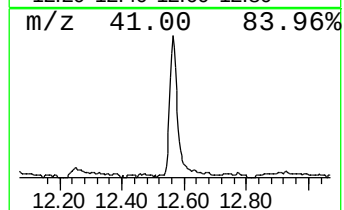
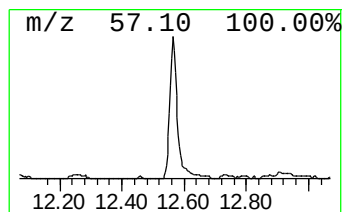
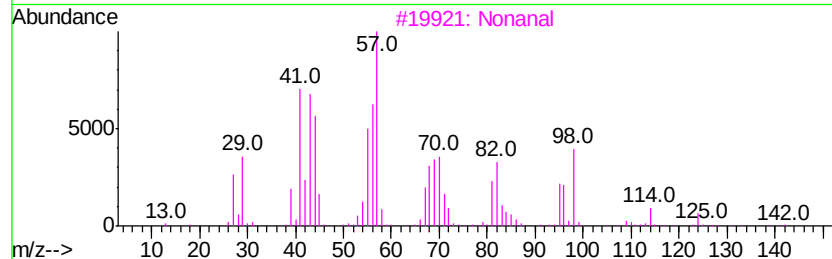
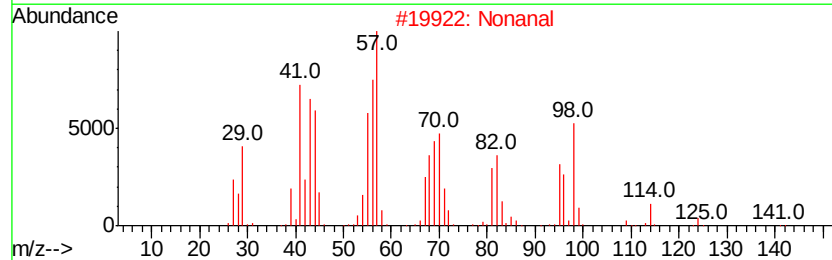
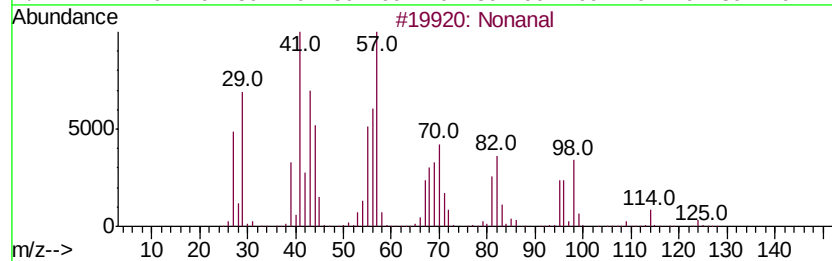
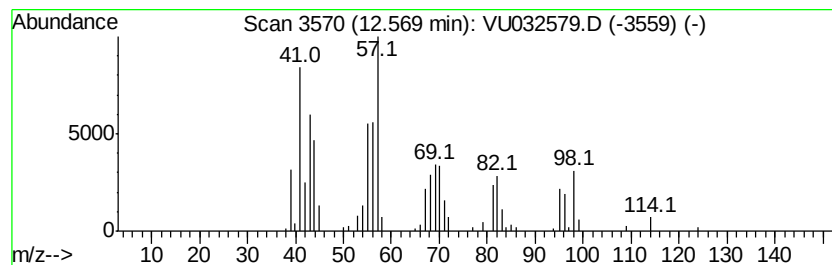
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Nonanal Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD       | R.T.  |
|-------|------------|--------|------------------------|-------|
| 12.57 | 10.71 ug/L | 114775 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# of | 5               | Tentative ID | MW  | MolForm | CAS#        | Qual |
|---------|-----------------|--------------|-----|---------|-------------|------|
| 1       | Nonanal         |              | 142 | C9H18O  | 000124-19-6 | 91   |
| 2       | Nonanal         |              | 142 | C9H18O  | 000124-19-6 | 90   |
| 3       | Nonanal         |              | 142 | C9H18O  | 000124-19-6 | 90   |
| 4       | Nonanal         |              | 142 | C9H18O  | 000124-19-6 | 86   |
| 5       | 2-Heptene, (E)- |              | 98  | C7H14   | 014686-13-6 | 25   |





Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_U\DATA\VU061019\  
Data File : VU032579.D  
Acq On : 10 Jun 2019 20:48  
Operator : JC/SP  
Sample : K3277-15  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
DB8C0

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 |
| Isopropyl Alcohol | 2.44  | 2.9     | ug/L  | 25143    | 1                     | 5.88  | 435851 | 50.0 |
| Hexanal           | 8.46  | 3.9     | ug/L  | 42158    | 2                     | 9.08  | 536401 | 50.0 |
| Octanal           | 11.37 | 6.4     | ug/L  | 68218    | 3                     | 11.48 | 536037 | 50.0 |
| Nonanal           | 12.57 | 10.7    | ug/L  | 114775   | 3                     | 11.48 | 536037 | 50.0 |