

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU091518\  
 Data File : VU026746.D  
 Acq On : 13 Sep 2018 23:19  
 Operator : MD/SY  
 Sample : J4893-16  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C08S5

## 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\SOMULM091018WMA.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         | 1.395       | 63            | 69          | 86           | rVB      | 92644          | 94779         | 15.82%          | 1.981%        |
| 2         | 1.678       | 150           | 157         | 175          | rVB      | 67843          | 86694         | 14.47%          | 1.812%        |
| 3         | 2.273       | 331           | 342         | 354          | rBV      | 144865         | 220015        | 36.72%          | 4.598%        |
| 4         | 2.443       | 385           | 395         | 411          | rVB      | 12506          | 21063         | 3.52%           | 0.440%        |
| 5         | 2.578       | 435           | 437         | 441          | rBV      | 168            | 87            | 0.01%           | 0.002%        |
| 6         | 2.701       | 473           | 475         | 478          | rBV      | 265            | 166           | 0.03%           | 0.003%        |
| 7         | 2.829       | 505           | 515         | 517          | rBV      | 702            | 843           | 0.14%           | 0.018%        |
| 8         | 3.006       | 568           | 570         | 573          | rVB      | 152            | 69            | 0.01%           | 0.001%        |
| 9         | 3.041       | 578           | 581         | 583          | rBV      | 146            | 82            | 0.01%           | 0.002%        |
| 10        | 3.096       | 592           | 598         | 601          | rBV      | 133            | 152           | 0.03%           | 0.003%        |
| 11        | 3.109       | 601           | 602         | 606          | rVV      | 131            | 53            | 0.01%           | 0.001%        |
| 12        | 3.189       | 624           | 627         | 630          | rBV2     | 293            | 234           | 0.04%           | 0.005%        |
| 13        | 3.209       | 630           | 633         | 637          | rVB      | 76             | 65            | 0.01%           | 0.001%        |
| 14        | 3.430       | 699           | 702         | 704          | rBV      | 124            | 76            | 0.01%           | 0.002%        |
| 15        | 3.469       | 711           | 714         | 717          | rVB      | 89             | 54            | 0.01%           | 0.001%        |
| 16        | 3.553       | 738           | 740         | 744          | rBV      | 188            | 90            | 0.02%           | 0.002%        |
| 17        | 3.623       | 759           | 762         | 764          | rBV      | 94             | 64            | 0.01%           | 0.001%        |
| 18        | 3.736       | 795           | 797         | 798          | rVB      | 106            | 40            | 0.01%           | 0.001%        |
| 19        | 3.784       | 809           | 812         | 814          | rBV      | 56             | 39            | 0.01%           | 0.001%        |
| 20        | 3.800       | 814           | 817         | 823          | rVB      | 154            | 151           | 0.03%           | 0.003%        |
| 21        | 3.832       | 823           | 827         | 829          | rBV      | 59             | 46            | 0.01%           | 0.001%        |
| 22        | 3.852       | 830           | 833         | 837          | rVB      | 87             | 61            | 0.01%           | 0.001%        |
| 23        | 3.893       | 844           | 846         | 854          | rVB      | 162            | 93            | 0.02%           | 0.002%        |
| 24        | 4.048       | 889           | 894         | 897          | rBV      | 68             | 69            | 0.01%           | 0.001%        |
| 25        | 4.080       | 902           | 904         | 907          | rBV      | 66             | 44            | 0.01%           | 0.001%        |
| 26        | 4.180       | 918           | 935         | 961          | rBV      | 50660          | 131287        | 21.91%          | 2.744%        |
| 27        | 4.395       | 991           | 1002        | 1012         | rBV      | 1408           | 2516          | 0.42%           | 0.053%        |
| 28        | 4.475       | 1024          | 1027        | 1029         | rBV      | 51             | 35            | 0.01%           | 0.001%        |
| 29        | 4.546       | 1046          | 1049        | 1052         | rBV      | 144            | 61            | 0.01%           | 0.001%        |
| 30        | 4.582       | 1058          | 1060        | 1062         | rBV      | 129            | 56            | 0.01%           | 0.001%        |
| 31        | 4.649       | 1063          | 1081        | 1106         | rVV      | 93559          | 230627        | 38.50%          | 4.820%        |
| 32        | 4.932       | 1165          | 1169        | 1170         | rBV      | 84             | 53            | 0.01%           | 0.001%        |
| 33        | 4.961       | 1175          | 1178        | 1180         | rVV      | 56             | 29            | 0.00%           | 0.001%        |
| 34        | 4.977       | 1181          | 1183        | 1185         | rVB      | 145            | 64            | 0.01%           | 0.001%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |        |         |         |
|----|-------|------|------|------|------|--------|--------|---------|---------|
| 35 | 5.131 | 1228 | 1231 | 1236 | rVB  | 82     | 57     | 0.01%   | 0.001%  |
| 36 | 5.167 | 1236 | 1242 | 1247 | rBV  | 124    | 126    | 0.02%   | 0.003%  |
| 37 | 5.237 | 1260 | 1264 | 1266 | rBV  | 42     | 36     | 0.01%   | 0.001%  |
| 38 | 5.344 | 1272 | 1297 | 1326 | rBV2 | 204848 | 599100 | 100.00% | 12.521% |
| 39 | 5.479 | 1337 | 1339 | 1341 | rBV2 | 112    | 62     | 0.01%   | 0.001%  |
| 40 | 5.504 | 1345 | 1347 | 1350 | rVB  | 151    | 46     | 0.01%   | 0.001%  |
| 41 | 5.585 | 1369 | 1372 | 1376 | rBV  | 67     | 43     | 0.01%   | 0.001%  |
| 42 | 5.623 | 1376 | 1384 | 1387 | rBV  | 90     | 120    | 0.02%   | 0.003%  |
| 43 | 5.675 | 1397 | 1400 | 1403 | rVB  | 78     | 53     | 0.01%   | 0.001%  |
| 44 | 5.697 | 1403 | 1407 | 1411 | rBV  | 78     | 84     | 0.01%   | 0.002%  |
| 45 | 5.781 | 1428 | 1433 | 1436 | rBV  | 77     | 77     | 0.01%   | 0.002%  |
| 46 | 5.890 | 1451 | 1467 | 1486 | rBV  | 210781 | 411031 | 68.61%  | 8.591%  |
| 47 | 6.118 | 1534 | 1538 | 1543 | rVB2 | 240    | 247    | 0.04%   | 0.005%  |
| 48 | 6.266 | 1579 | 1584 | 1588 | rVB  | 217    | 203    | 0.03%   | 0.004%  |
| 49 | 6.334 | 1591 | 1605 | 1629 | rBV  | 138942 | 272867 | 45.55%  | 5.703%  |
| 50 | 6.462 | 1641 | 1645 | 1649 | rBV2 | 337    | 248    | 0.04%   | 0.005%  |
| 51 | 6.601 | 1685 | 1688 | 1692 | rVB  | 175    | 117    | 0.02%   | 0.002%  |
| 52 | 6.646 | 1697 | 1702 | 1706 | rBV  | 108    | 124    | 0.02%   | 0.003%  |
| 53 | 6.861 | 1762 | 1769 | 1773 | rBV  | 491    | 650    | 0.11%   | 0.014%  |
| 54 | 7.028 | 1816 | 1821 | 1824 | rBV  | 95     | 96     | 0.02%   | 0.002%  |
| 55 | 7.064 | 1827 | 1832 | 1833 | rBV  | 79     | 71     | 0.01%   | 0.001%  |
| 56 | 7.134 | 1851 | 1854 | 1856 | rBV  | 109    | 64     | 0.01%   | 0.001%  |
| 57 | 7.231 | 1871 | 1884 | 1902 | rBV  | 73116  | 128287 | 21.41%  | 2.681%  |
| 58 | 7.334 | 1911 | 1916 | 1919 | rBV  | 219    | 166    | 0.03%   | 0.003%  |
| 59 | 7.392 | 1928 | 1934 | 1941 | rBB4 | 895    | 1117   | 0.19%   | 0.023%  |
| 60 | 7.446 | 1947 | 1951 | 1954 | rBV2 | 185    | 162    | 0.03%   | 0.003%  |
| 61 | 7.479 | 1959 | 1961 | 1963 | rBV  | 134    | 74     | 0.01%   | 0.002%  |
| 62 | 7.501 | 1966 | 1968 | 1970 | rVB  | 143    | 40     | 0.01%   | 0.001%  |
| 63 | 7.517 | 1970 | 1973 | 1975 | rBV  | 51     | 32     | 0.01%   | 0.001%  |
| 64 | 7.569 | 1975 | 1989 | 2008 | rBV  | 266406 | 462879 | 77.26%  | 9.674%  |
| 65 | 7.713 | 2031 | 2034 | 2037 | rBV  | 213    | 140    | 0.02%   | 0.003%  |
| 66 | 7.729 | 2037 | 2039 | 2044 | rVB  | 217    | 119    | 0.02%   | 0.002%  |
| 67 | 7.749 | 2044 | 2045 | 2049 | rBV  | 229    | 110    | 0.02%   | 0.002%  |
| 68 | 7.800 | 2059 | 2061 | 2065 | rVB  | 182    | 92     | 0.02%   | 0.002%  |
| 69 | 7.851 | 2065 | 2077 | 2093 | rBV  | 51202  | 84460  | 14.10%  | 1.765%  |
| 70 | 7.942 | 2103 | 2105 | 2107 | rVB  | 110    | 61     | 0.01%   | 0.001%  |
| 71 | 7.970 | 2111 | 2114 | 2115 | rBV  | 141    | 83     | 0.01%   | 0.002%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 7.993  | 2119 | 2121 | 2124 | rBV  | 126    | 44     | 0.01%  | 0.001%  |
| 73  | 8.012  | 2124 | 2127 | 2129 | rBV2 | 142    | 97     | 0.02%  | 0.002%  |
| 74  | 8.054  | 2138 | 2140 | 2142 | rBV2 | 127    | 69     | 0.01%  | 0.001%  |
| 75  | 8.086  | 2148 | 2150 | 2152 | rBV  | 154    | 70     | 0.01%  | 0.001%  |
| 76  | 8.186  | 2167 | 2181 | 2188 | rBV4 | 3313   | 7067   | 1.18%  | 0.148%  |
| 77  | 8.314  | 2210 | 2221 | 2243 | rBV  | 168934 | 283735 | 47.36% | 5.930%  |
| 78  | 8.475  | 2266 | 2271 | 2276 | rVB4 | 1128   | 1405   | 0.23%  | 0.029%  |
| 79  | 8.507  | 2279 | 2281 | 2283 | rVB  | 126    | 49     | 0.01%  | 0.001%  |
| 80  | 8.604  | 2309 | 2311 | 2313 | rVV  | 137    | 35     | 0.01%  | 0.001%  |
| 81  | 8.617  | 2313 | 2315 | 2318 | rVV  | 136    | 65     | 0.01%  | 0.001%  |
| 82  | 8.646  | 2322 | 2324 | 2328 | rVB2 | 179    | 124    | 0.02%  | 0.003%  |
| 83  | 8.687  | 2336 | 2337 | 2343 | rVB  | 173    | 80     | 0.01%  | 0.002%  |
| 84  | 8.726  | 2348 | 2349 | 2351 | rBV  | 134    | 38     | 0.01%  | 0.001%  |
| 85  | 9.093  | 2450 | 2463 | 2488 | rBV  | 296781 | 511888 | 85.44% | 10.699% |
| 86  | 9.260  | 2513 | 2515 | 2518 | rVB2 | 265    | 133    | 0.02%  | 0.003%  |
| 87  | 9.302  | 2524 | 2528 | 2535 | rBV2 | 227    | 295    | 0.05%  | 0.006%  |
| 88  | 9.366  | 2545 | 2548 | 2549 | rBV  | 76     | 47     | 0.01%  | 0.001%  |
| 89  | 9.379  | 2549 | 2552 | 2556 | rVV  | 184    | 197    | 0.03%  | 0.004%  |
| 90  | 9.787  | 2675 | 2679 | 2681 | rBV  | 282    | 174    | 0.03%  | 0.004%  |
| 91  | 10.433 | 2868 | 2880 | 2902 | rBV  | 182958 | 288441 | 48.15% | 6.029%  |
| 92  | 10.613 | 2927 | 2936 | 2945 | rBV3 | 1483   | 2315   | 0.39%  | 0.048%  |
| 93  | 11.134 | 3096 | 3098 | 3100 | rBV  | 192    | 62     | 0.01%  | 0.001%  |
| 94  | 11.420 | 3180 | 3187 | 3194 | rBB2 | 1810   | 2192   | 0.37%  | 0.046%  |
| 95  | 11.485 | 3196 | 3207 | 3227 | rBV  | 276526 | 456695 | 76.23% | 9.545%  |
| 96  | 11.748 | 3281 | 3289 | 3306 | rVB3 | 5964   | 10494  | 1.75%  | 0.219%  |
| 97  | 11.861 | 3312 | 3324 | 3344 | rBV  | 260436 | 445981 | 74.44% | 9.321%  |
| 98  | 12.366 | 3479 | 3481 | 3484 | rBV  | 217    | 98     | 0.02%  | 0.002%  |
| 99  | 12.874 | 3637 | 3639 | 3640 | rBV  | 175    | 62     | 0.01%  | 0.001%  |
| 100 | 13.507 | 3827 | 3836 | 3850 | rBV3 | 11601  | 19418  | 3.24%  | 0.406%  |

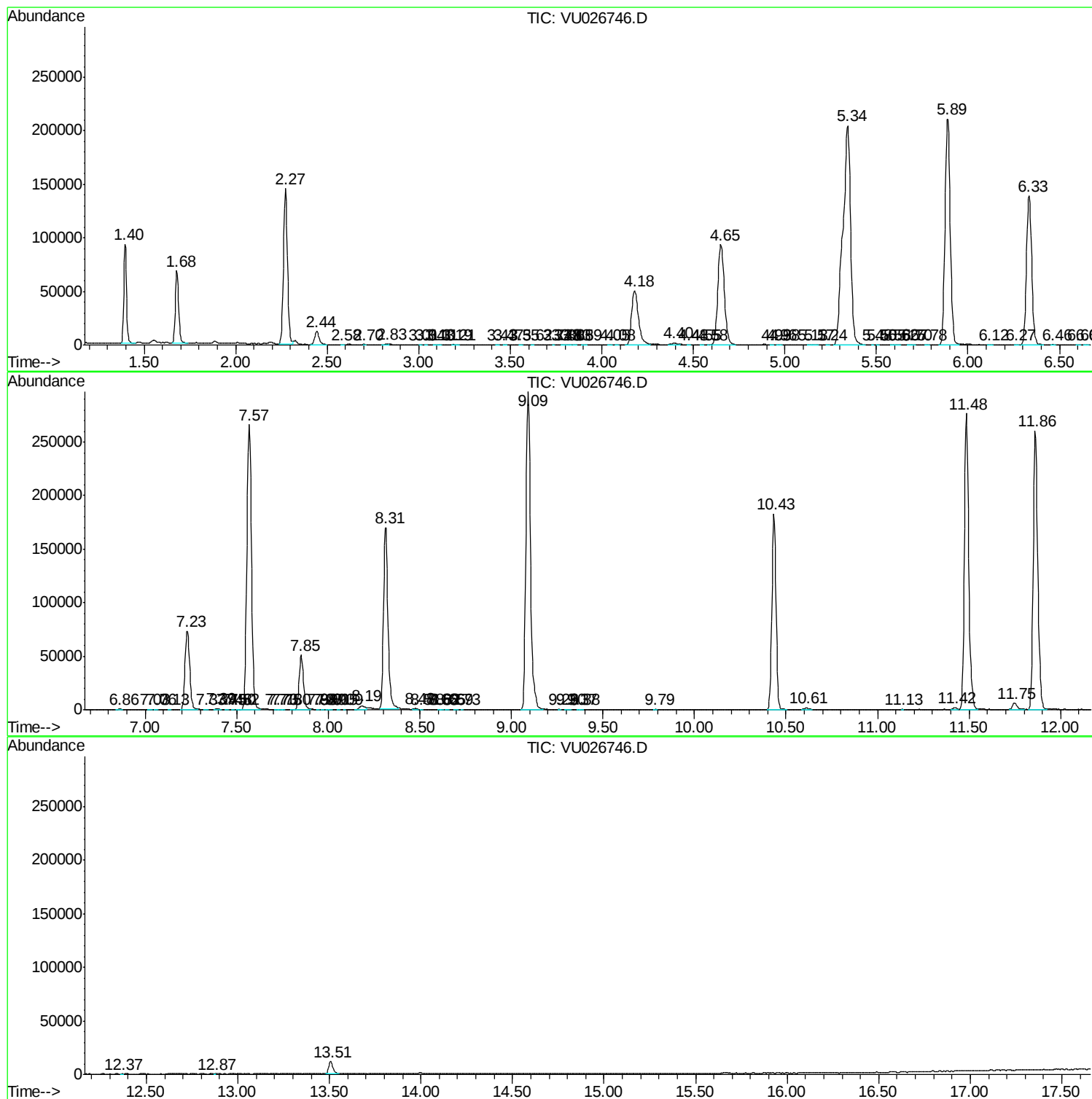
Sum of corrected areas: 4784571

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ClientSampled :  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
Quant Title : VOC Analysis

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



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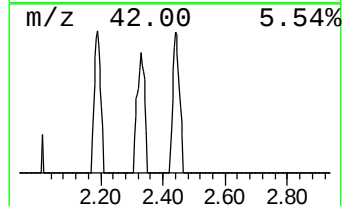
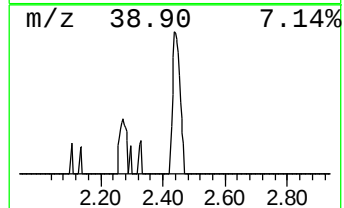
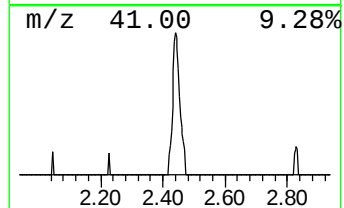
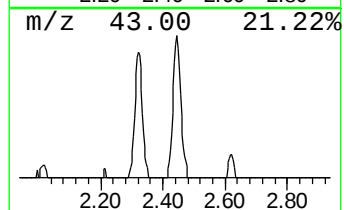
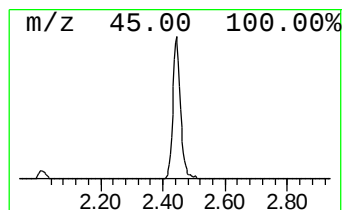
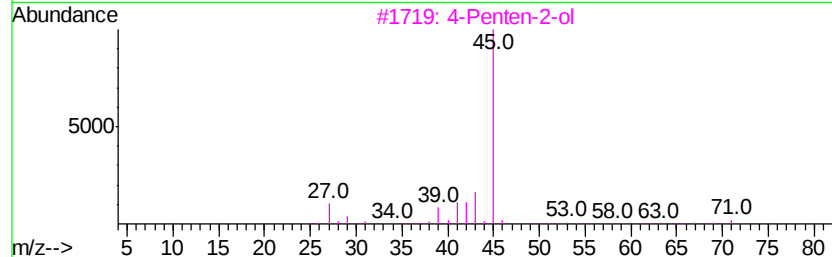
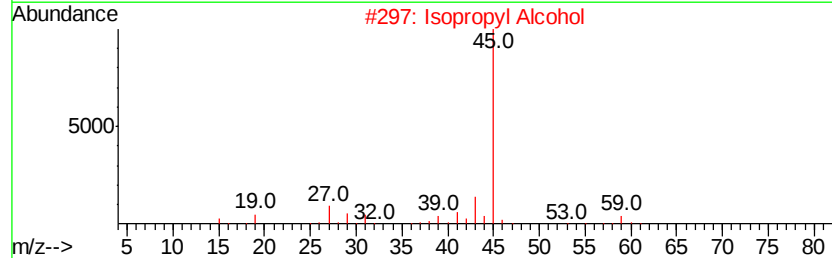
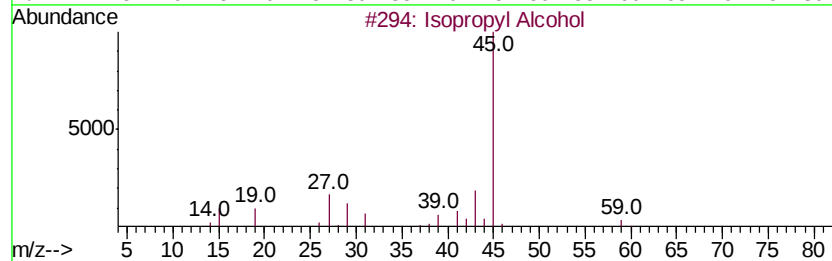
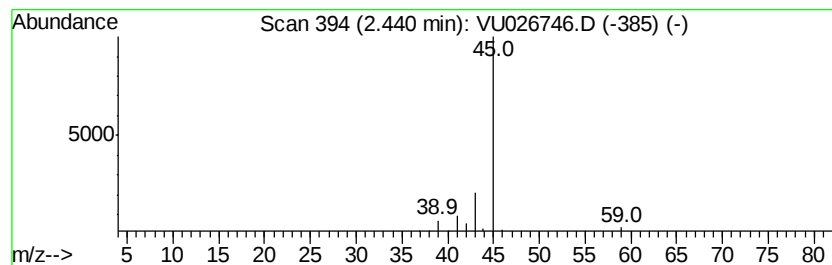
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM091018WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 2.56 ug/L | 21063 | 1,4-Difluorobenzene | 5.89 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 74   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 3    |    |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 9    |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 9    |
| 5    |    |   | Ethylamine        | 45 | C2H7N   | 000075-04-7 | 5    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.44 | 2.6     | ug/L  | 21063    | 1                     | 5.89 | 411031 | 50.0 |