

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022719\  
 Data File : VU029693.D  
 Acq On : 26 Feb 2019 19:38  
 Operator : JC/SP  
 Sample : K1624-08  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 16 Sample Multiplier: 1

## 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\SOMULM021519WMA.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         | 1.183       | 24            | 29          | 38           | rBV2     | 7727           | 7086          | 0.39%           | 0.045%        |
| 2         | 1.395       | 88            | 95          | 106          | rBV      | 217620         | 223418        | 12.40%          | 1.406%        |
| 3         | 1.678       | 175           | 183         | 204          | rVB      | 185134         | 234020        | 12.99%          | 1.473%        |
| 4         | 1.833       | 225           | 231         | 238          | rBV      | 10975          | 12544         | 0.70%           | 0.079%        |
| 5         | 1.884       | 239           | 247         | 257          | rVV      | 97440          | 133647        | 7.42%           | 0.841%        |
| 6         | 2.270       | 356           | 367         | 380          | rVB      | 397111         | 592944        | 32.92%          | 3.731%        |
| 7         | 2.444       | 410           | 421         | 440          | rBV      | 43941          | 81205         | 4.51%           | 0.511%        |
| 8         | 2.694       | 496           | 499         | 507          | rVB5     | 1389           | 1597          | 0.09%           | 0.010%        |
| 9         | 2.833       | 533           | 542         | 545          | rBV4     | 2306           | 3207          | 0.18%           | 0.020%        |
| 10        | 2.903       | 562           | 564         | 567          | rBV2     | 309            | 220           | 0.01%           | 0.001%        |
| 11        | 2.984       | 586           | 589         | 593          | rBV2     | 670            | 522           | 0.03%           | 0.003%        |
| 12        | 3.058       | 609           | 612         | 617          | rBV2     | 252            | 256           | 0.01%           | 0.002%        |
| 13        | 3.154       | 639           | 642         | 649          | rVB2     | 394            | 409           | 0.02%           | 0.003%        |
| 14        | 3.199       | 649           | 656         | 658          | rBV2     | 418            | 464           | 0.03%           | 0.003%        |
| 15        | 3.228       | 663           | 665         | 669          | rVB2     | 391            | 244           | 0.01%           | 0.002%        |
| 16        | 3.267       | 674           | 677         | 680          | rBV      | 263            | 216           | 0.01%           | 0.001%        |
| 17        | 3.321       | 692           | 694         | 698          | rBV2     | 331            | 297           | 0.02%           | 0.002%        |
| 18        | 3.354       | 701           | 704         | 706          | rVV2     | 297            | 231           | 0.01%           | 0.001%        |
| 19        | 3.379       | 709           | 712         | 715          | rVB      | 350            | 205           | 0.01%           | 0.001%        |
| 20        | 3.437       | 726           | 730         | 731          | rBV      | 301            | 253           | 0.01%           | 0.002%        |
| 21        | 3.492       | 743           | 747         | 749          | rBV2     | 261            | 197           | 0.01%           | 0.001%        |
| 22        | 3.556       | 764           | 767         | 769          | rBV2     | 396            | 260           | 0.01%           | 0.002%        |
| 23        | 3.585       | 772           | 776         | 779          | rVB2     | 309            | 275           | 0.02%           | 0.002%        |
| 24        | 3.691       | 807           | 809         | 813          | rVB2     | 436            | 303           | 0.02%           | 0.002%        |
| 25        | 3.752       | 824           | 828         | 834          | rVB2     | 434            | 476           | 0.03%           | 0.003%        |
| 26        | 3.829       | 848           | 852         | 854          | rBV2     | 480            | 390           | 0.02%           | 0.002%        |
| 27        | 3.878       | 862           | 867         | 869          | rBV2     | 368            | 412           | 0.02%           | 0.003%        |
| 28        | 3.894       | 869           | 872         | 878          | rVB2     | 474            | 488           | 0.03%           | 0.003%        |
| 29        | 3.961       | 891           | 893         | 898          | rVB      | 321            | 241           | 0.01%           | 0.002%        |
| 30        | 4.090       | 930           | 933         | 938          | rVB2     | 286            | 222           | 0.01%           | 0.001%        |
| 31        | 4.112       | 938           | 940         | 942          | rBV2     | 306            | 213           | 0.01%           | 0.001%        |
| 32        | 4.132       | 942           | 946         | 947          | rBV2     | 634            | 407           | 0.02%           | 0.003%        |
| 33        | 4.177       | 947           | 960         | 996          | rVV      | 146025         | 425449        | 23.62%          | 2.677%        |
| 34        | 4.405       | 1028          | 1031        | 1037         | rVB5     | 863            | 883           | 0.05%           | 0.006%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |         |         |
|----|-------|------|------|------|------|--------|---------|---------|---------|
| 35 | 4.527 | 1065 | 1069 | 1073 | rVB3 | 446    | 426     | 0.02%   | 0.003%  |
| 36 | 4.572 | 1080 | 1083 | 1085 | rVB3 | 487    | 287     | 0.02%   | 0.002%  |
| 37 | 4.646 | 1085 | 1106 | 1136 | rBV  | 271710 | 657758  | 36.52%  | 4.139%  |
| 38 | 4.810 | 1154 | 1157 | 1161 | rBV2 | 498    | 403     | 0.02%   | 0.003%  |
| 39 | 4.852 | 1167 | 1170 | 1172 | rBV3 | 425    | 260     | 0.01%   | 0.002%  |
| 40 | 4.874 | 1174 | 1177 | 1178 | rBV3 | 622    | 409     | 0.02%   | 0.003%  |
| 41 | 4.926 | 1189 | 1193 | 1195 | rBV3 | 386    | 232     | 0.01%   | 0.001%  |
| 42 | 5.029 | 1222 | 1225 | 1227 | rBV  | 359    | 201     | 0.01%   | 0.001%  |
| 43 | 5.064 | 1233 | 1236 | 1240 | rBV2 | 198    | 213     | 0.01%   | 0.001%  |
| 44 | 5.141 | 1248 | 1260 | 1270 | rVB4 | 1647   | 3440    | 0.19%   | 0.022%  |
| 45 | 5.225 | 1284 | 1286 | 1291 | rVB2 | 444    | 307     | 0.02%   | 0.002%  |
| 46 | 5.337 | 1291 | 1321 | 1363 | rBV2 | 567900 | 1681480 | 93.36%  | 10.581% |
| 47 | 5.556 | 1386 | 1389 | 1391 | rBV2 | 510    | 358     | 0.02%   | 0.002%  |
| 48 | 5.675 | 1423 | 1426 | 1432 | rVB4 | 863    | 784     | 0.04%   | 0.005%  |
| 49 | 5.823 | 1468 | 1472 | 1476 | rBV3 | 349    | 353     | 0.02%   | 0.002%  |
| 50 | 5.884 | 1477 | 1491 | 1518 | rBV  | 524015 | 1039428 | 57.71%  | 6.541%  |
| 51 | 6.183 | 1569 | 1584 | 1615 | rBV  | 923137 | 1801087 | 100.00% | 11.334% |
| 52 | 6.328 | 1616 | 1629 | 1653 | rVB  | 359968 | 731068  | 40.59%  | 4.600%  |
| 53 | 6.556 | 1698 | 1700 | 1702 | rBV2 | 462    | 212     | 0.01%   | 0.001%  |
| 54 | 6.649 | 1726 | 1729 | 1734 | rVB2 | 364    | 234     | 0.01%   | 0.001%  |
| 55 | 6.736 | 1752 | 1756 | 1761 | rBV2 | 422    | 471     | 0.03%   | 0.003%  |
| 56 | 6.874 | 1794 | 1799 | 1801 | rBV3 | 339    | 338     | 0.02%   | 0.002%  |
| 57 | 6.958 | 1822 | 1825 | 1828 | rVB2 | 454    | 302     | 0.02%   | 0.002%  |
| 58 | 7.006 | 1834 | 1840 | 1842 | rBV2 | 398    | 457     | 0.03%   | 0.003%  |
| 59 | 7.029 | 1844 | 1847 | 1851 | rVB2 | 308    | 267     | 0.01%   | 0.002%  |
| 60 | 7.225 | 1895 | 1908 | 1936 | rBV  | 211030 | 384162  | 21.33%  | 2.417%  |
| 61 | 7.366 | 1949 | 1952 | 1953 | rBV2 | 456    | 275     | 0.02%   | 0.002%  |
| 62 | 7.389 | 1954 | 1959 | 1965 | rVV4 | 1902   | 2446    | 0.14%   | 0.015%  |
| 63 | 7.453 | 1977 | 1979 | 1985 | rBV2 | 395    | 488     | 0.03%   | 0.003%  |
| 64 | 7.562 | 2000 | 2013 | 2034 | rBV  | 804373 | 1401938 | 77.84%  | 8.822%  |
| 65 | 7.845 | 2090 | 2101 | 2128 | rBV  | 140520 | 254085  | 14.11%  | 1.599%  |
| 66 | 8.074 | 2164 | 2172 | 2179 | rVB5 | 1624   | 2278    | 0.13%   | 0.014%  |
| 67 | 8.125 | 2185 | 2188 | 2191 | rVB2 | 315    | 239     | 0.01%   | 0.002%  |
| 68 | 8.173 | 2195 | 2203 | 2207 | rBV5 | 3776   | 6054    | 0.34%   | 0.038%  |
| 69 | 8.225 | 2207 | 2219 | 2234 | rVV  | 350350 | 592303  | 32.89%  | 3.727%  |
| 70 | 8.308 | 2234 | 2245 | 2276 | rVV  | 458989 | 814999  | 45.25%  | 5.128%  |
| 71 | 8.852 | 2411 | 2414 | 2416 | rVV2 | 413    | 261     | 0.01%   | 0.002%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
 Title : VOC Analysis

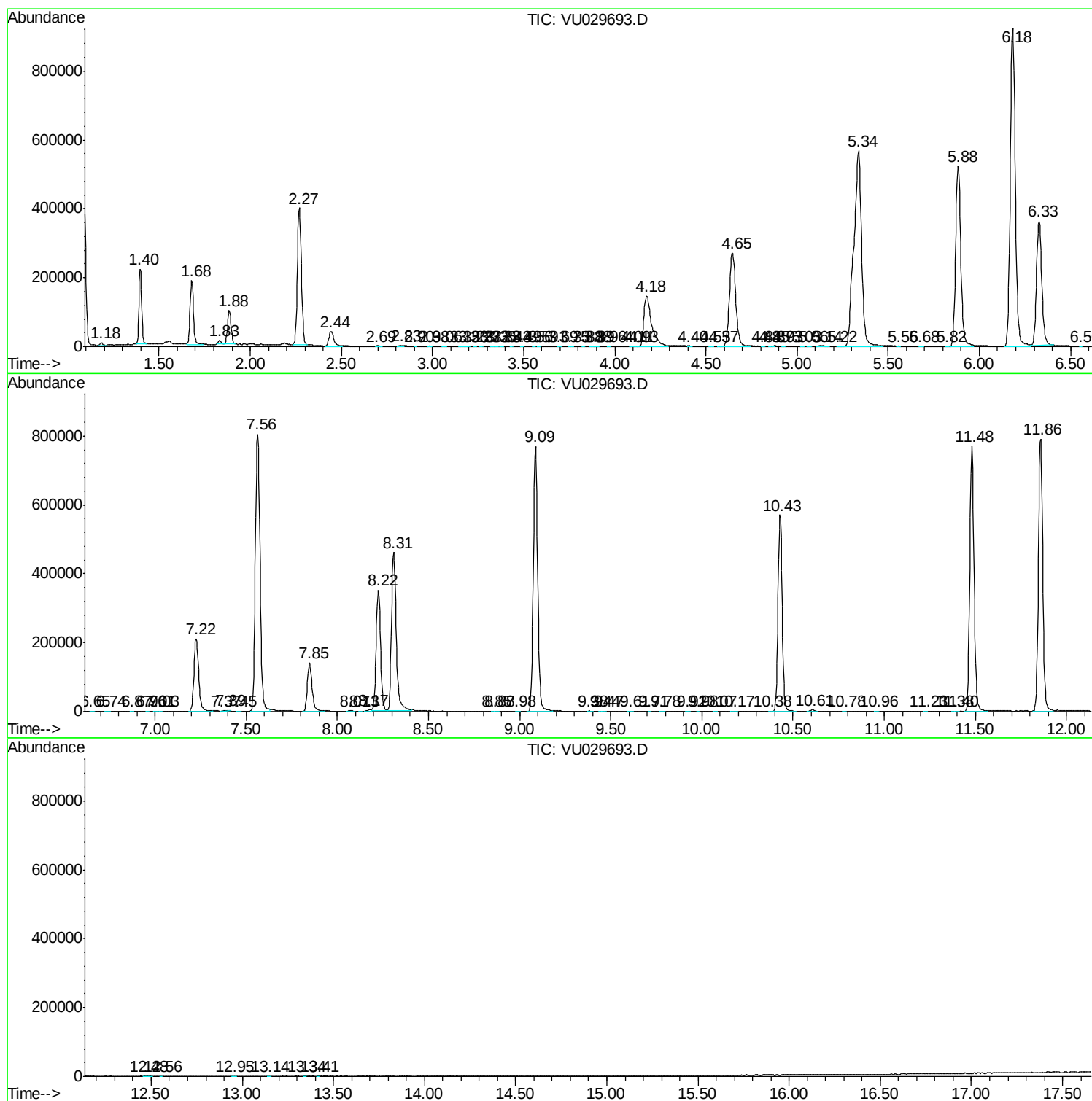
|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 8.868  | 2416 | 2419 | 2425 | rVB3 | 492    | 507     | 0.03%  | 0.003% |
| 73  | 8.984  | 2452 | 2455 | 2460 | rBV2 | 200    | 232     | 0.01%  | 0.001% |
| 74  | 9.086  | 2472 | 2487 | 2517 | rBV  | 770180 | 1286923 | 71.45% | 8.098% |
| 75  | 9.379  | 2575 | 2578 | 2585 | rVB3 | 832    | 1009    | 0.06%  | 0.006% |
| 76  | 9.443  | 2594 | 2598 | 2600 | rVB2 | 440    | 328     | 0.02%  | 0.002% |
| 77  | 9.466  | 2600 | 2605 | 2607 | rBV3 | 311    | 312     | 0.02%  | 0.002% |
| 78  | 9.607  | 2644 | 2649 | 2653 | rBV3 | 304    | 422     | 0.02%  | 0.003% |
| 79  | 9.713  | 2679 | 2682 | 2684 | rBV  | 300    | 221     | 0.01%  | 0.001% |
| 80  | 9.778  | 2698 | 2702 | 2707 | rBV3 | 488    | 525     | 0.03%  | 0.003% |
| 81  | 9.922  | 2743 | 2747 | 2750 | rVB3 | 270    | 197     | 0.01%  | 0.001% |
| 82  | 9.980  | 2761 | 2765 | 2767 | rBV2 | 269    | 248     | 0.01%  | 0.002% |
| 83  | 10.074 | 2790 | 2794 | 2797 | rBV2 | 232    | 222     | 0.01%  | 0.001% |
| 84  | 10.173 | 2819 | 2825 | 2832 | rBV4 | 728    | 1170    | 0.06%  | 0.007% |
| 85  | 10.376 | 2884 | 2888 | 2892 | rBV  | 349    | 327     | 0.02%  | 0.002% |
| 86  | 10.427 | 2892 | 2904 | 2932 | rVV  | 569975 | 913451  | 50.72% | 5.748% |
| 87  | 10.607 | 2949 | 2960 | 2968 | rBV4 | 3879   | 6198    | 0.34%  | 0.039% |
| 88  | 10.781 | 3011 | 3014 | 3017 | rVB2 | 410    | 259     | 0.01%  | 0.002% |
| 89  | 10.961 | 3065 | 3070 | 3073 | rBV2 | 375    | 333     | 0.02%  | 0.002% |
| 90  | 11.234 | 3149 | 3155 | 3156 | rBV  | 415    | 387     | 0.02%  | 0.002% |
| 91  | 11.376 | 3196 | 3199 | 3202 | rBV2 | 404    | 287     | 0.02%  | 0.002% |
| 92  | 11.401 | 3202 | 3207 | 3209 | rBV3 | 644    | 620     | 0.03%  | 0.004% |
| 93  | 11.482 | 3219 | 3232 | 3259 | rBV  | 771180 | 1255830 | 69.73% | 7.902% |
| 94  | 11.858 | 3335 | 3349 | 3371 | rBV  | 791378 | 1314293 | 72.97% | 8.270% |
| 95  | 12.479 | 3535 | 3542 | 3551 | rVB4 | 1272   | 2045    | 0.11%  | 0.013% |
| 96  | 12.556 | 3563 | 3566 | 3568 | rBV2 | 305    | 220     | 0.01%  | 0.001% |
| 97  | 12.948 | 3685 | 3688 | 3693 | rVB2 | 391    | 280     | 0.02%  | 0.002% |
| 98  | 13.144 | 3746 | 3749 | 3753 | rBV3 | 363    | 353     | 0.02%  | 0.002% |
| 99  | 13.344 | 3808 | 3811 | 3813 | rBV  | 681    | 475     | 0.03%  | 0.003% |
| 100 | 13.414 | 3830 | 3833 | 3836 | rBV  | 519    | 396     | 0.02%  | 0.002% |

Sum of corrected areas: 15891574

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU022719\  
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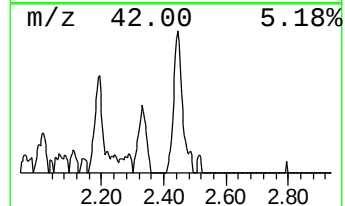
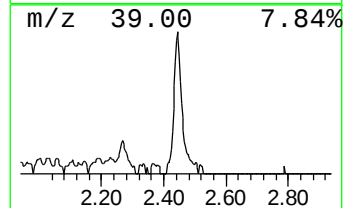
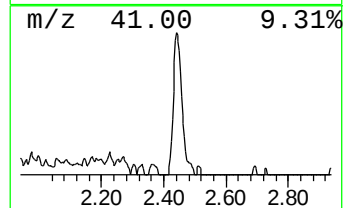
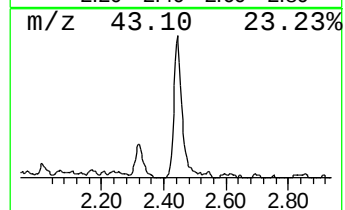
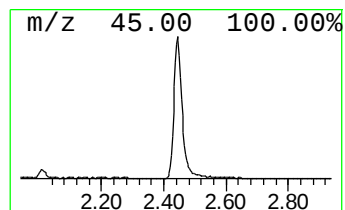
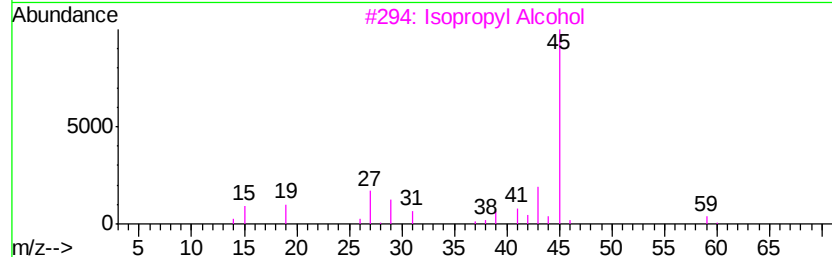
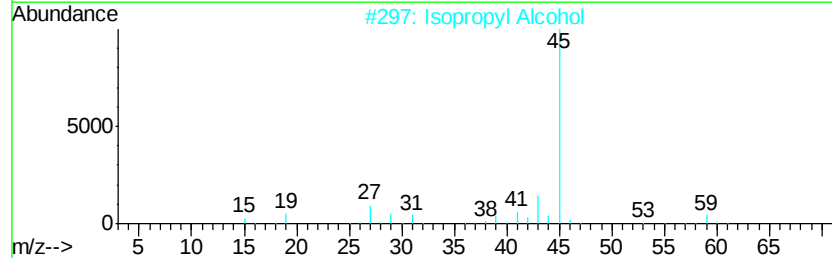
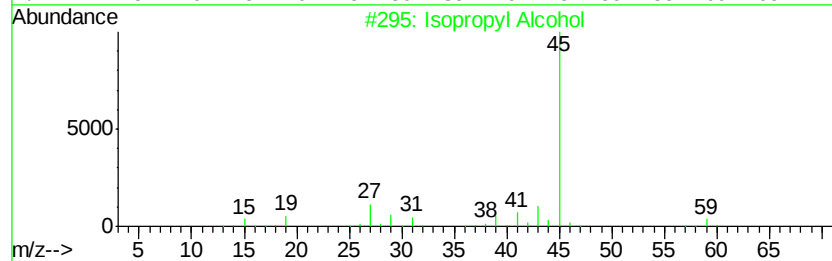
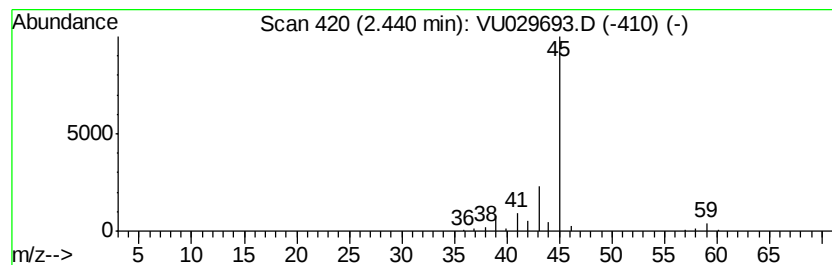
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 3.91 ug/L | 81205 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 86   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 56   |
| 5    |    |   | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 40   |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|-------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                   |      |         |       |          | #                     | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 3.9     | ug/L  | 81205    | 1                     | 5.88 | 1039430 | 50.0 |