

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU022719\  
 Data File : VU029692.D  
 Acq On : 26 Feb 2019 19:15  
 Operator : JC/SP  
 Sample : K1624-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 15 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         | 1.180       | 24            | 28          | 34           | rBV      | 7530           | 7047          | 0.42%           | 0.047%        |
| 2         | 1.396       | 88            | 95          | 107          | rBV      | 224176         | 230518        | 13.63%          | 1.536%        |
| 3         | 1.679       | 175           | 183         | 195          | rBV      | 186679         | 233337        | 13.80%          | 1.555%        |
| 4         | 1.830       | 226           | 230         | 238          | rVB2     | 8420           | 10225         | 0.60%           | 0.068%        |
| 5         | 1.884       | 238           | 247         | 261          | rBV      | 157090         | 219765        | 12.99%          | 1.465%        |
| 6         | 2.270       | 356           | 367         | 380          | rVB      | 376131         | 575274        | 34.01%          | 3.834%        |
| 7         | 2.444       | 410           | 421         | 447          | rBV      | 35168          | 65611         | 3.88%           | 0.437%        |
| 8         | 2.534       | 447           | 449         | 453          | rVV4     | 619            | 440           | 0.03%           | 0.003%        |
| 9         | 2.556       | 453           | 456         | 465          | rVB4     | 873            | 1052          | 0.06%           | 0.007%        |
| 10        | 2.605       | 469           | 471         | 477          | rVB4     | 341            | 243           | 0.01%           | 0.002%        |
| 11        | 2.656       | 486           | 487         | 492          | rVB      | 545            | 354           | 0.02%           | 0.002%        |
| 12        | 2.704       | 494           | 502         | 509          | rVV5     | 941            | 1609          | 0.10%           | 0.011%        |
| 13        | 2.791       | 524           | 529         | 533          | rVB2     | 359            | 442           | 0.03%           | 0.003%        |
| 14        | 2.839       | 533           | 544         | 551          | rBV5     | 2445           | 5183          | 0.31%           | 0.035%        |
| 15        | 2.913       | 564           | 567         | 569          | rBV      | 372            | 271           | 0.02%           | 0.002%        |
| 16        | 2.984       | 585           | 589         | 593          | rVB4     | 329            | 276           | 0.02%           | 0.002%        |
| 17        | 3.158       | 638           | 643         | 646          | rBV2     | 433            | 378           | 0.02%           | 0.003%        |
| 18        | 3.277       | 674           | 680         | 681          | rBV      | 350            | 369           | 0.02%           | 0.002%        |
| 19        | 3.370       | 703           | 709         | 711          | rBV2     | 487            | 432           | 0.03%           | 0.003%        |
| 20        | 3.505       | 743           | 751         | 755          | rBV2     | 556            | 601           | 0.04%           | 0.004%        |
| 21        | 3.646       | 788           | 795         | 800          | rBV2     | 247            | 362           | 0.02%           | 0.002%        |
| 22        | 4.010       | 904           | 908         | 913          | rVB3     | 377            | 373           | 0.02%           | 0.002%        |
| 23        | 4.093       | 931           | 934         | 938          | rVB2     | 276            | 252           | 0.01%           | 0.002%        |
| 24        | 4.174       | 945           | 959         | 986          | rBV      | 147867         | 394619        | 23.33%          | 2.630%        |
| 25        | 4.447       | 1040          | 1044        | 1049         | rVB5     | 734            | 741           | 0.04%           | 0.005%        |
| 26        | 4.563       | 1078          | 1080        | 1083         | rVB2     | 541            | 242           | 0.01%           | 0.002%        |
| 27        | 4.646       | 1087          | 1106        | 1127         | rBV      | 271885         | 662579        | 39.18%          | 4.416%        |
| 28        | 4.881       | 1173          | 1179        | 1187         | rBV4     | 728            | 1092          | 0.06%           | 0.007%        |
| 29        | 4.981       | 1206          | 1210        | 1212         | rBV2     | 796            | 562           | 0.03%           | 0.004%        |
| 30        | 5.135       | 1246          | 1258        | 1270         | rBV3     | 2967           | 6181          | 0.37%           | 0.041%        |
| 31        | 5.183       | 1270          | 1273        | 1277         | rVB2     | 539            | 429           | 0.03%           | 0.003%        |
| 32        | 5.209       | 1277          | 1281        | 1287         | rBV2     | 442            | 529           | 0.03%           | 0.004%        |
| 33        | 5.238       | 1287          | 1290        | 1293         | rBV2     | 348            | 260           | 0.02%           | 0.002%        |
| 34        | 5.338       | 1297          | 1321        | 1348         | rBV2     | 576777         | 1691304       | 100.00%         | 11.273%       |

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

|    |       |      |      |      |      |        |         |        |        |
|----|-------|------|------|------|------|--------|---------|--------|--------|
| 35 | 5.588 | 1396 | 1399 | 1405 | rVB3 | 554    | 532     | 0.03%  | 0.004% |
| 36 | 5.627 | 1407 | 1411 | 1414 | rVB3 | 608    | 462     | 0.03%  | 0.003% |
| 37 | 5.653 | 1414 | 1419 | 1420 | rBV3 | 388    | 274     | 0.02%  | 0.002% |
| 38 | 5.672 | 1421 | 1425 | 1434 | rVB4 | 859    | 999     | 0.06%  | 0.007% |
| 39 | 5.717 | 1434 | 1439 | 1441 | rBV2 | 460    | 379     | 0.02%  | 0.003% |
| 40 | 5.752 | 1446 | 1450 | 1455 | rBV3 | 453    | 346     | 0.02%  | 0.002% |
| 41 | 5.884 | 1476 | 1491 | 1517 | rBV  | 489648 | 969604  | 57.33% | 6.463% |
| 42 | 6.058 | 1542 | 1545 | 1552 | rVB3 | 578    | 515     | 0.03%  | 0.003% |
| 43 | 6.186 | 1571 | 1585 | 1605 | rBV2 | 49348  | 101245  | 5.99%  | 0.675% |
| 44 | 6.328 | 1614 | 1629 | 1653 | rBV  | 367426 | 746591  | 44.14% | 4.976% |
| 45 | 6.502 | 1680 | 1683 | 1686 | rVB4 | 903    | 499     | 0.03%  | 0.003% |
| 46 | 6.585 | 1705 | 1709 | 1711 | rBV2 | 570    | 477     | 0.03%  | 0.003% |
| 47 | 6.685 | 1733 | 1740 | 1744 | rBV3 | 371    | 551     | 0.03%  | 0.004% |
| 48 | 6.710 | 1744 | 1748 | 1752 | rVV2 | 378    | 337     | 0.02%  | 0.002% |
| 49 | 6.739 | 1755 | 1757 | 1761 | rVB2 | 418    | 267     | 0.02%  | 0.002% |
| 50 | 6.765 | 1761 | 1765 | 1770 | rBV4 | 470    | 635     | 0.04%  | 0.004% |
| 51 | 6.826 | 1780 | 1784 | 1788 | rVV3 | 549    | 456     | 0.03%  | 0.003% |
| 52 | 6.852 | 1788 | 1792 | 1795 | rBV2 | 339    | 339     | 0.02%  | 0.002% |
| 53 | 6.871 | 1795 | 1798 | 1802 | rVV3 | 327    | 286     | 0.02%  | 0.002% |
| 54 | 6.913 | 1806 | 1811 | 1818 | rVB2 | 340    | 506     | 0.03%  | 0.003% |
| 55 | 7.010 | 1839 | 1841 | 1849 | rVB3 | 210    | 235     | 0.01%  | 0.002% |
| 56 | 7.128 | 1871 | 1878 | 1881 | rBV  | 389    | 475     | 0.03%  | 0.003% |
| 57 | 7.225 | 1896 | 1908 | 1942 | rVV  | 212259 | 388017  | 22.94% | 2.586% |
| 58 | 7.392 | 1954 | 1960 | 1964 | rBV5 | 1586   | 1763    | 0.10%  | 0.012% |
| 59 | 7.466 | 1979 | 1983 | 1992 | rVB3 | 844    | 962     | 0.06%  | 0.006% |
| 60 | 7.563 | 1998 | 2013 | 2056 | rBV  | 818164 | 1440221 | 85.15% | 9.599% |
| 61 | 7.846 | 2090 | 2101 | 2129 | rBV  | 142048 | 253934  | 15.01% | 1.693% |
| 62 | 8.006 | 2148 | 2151 | 2158 | rVB4 | 569    | 595     | 0.04%  | 0.004% |
| 63 | 8.067 | 2167 | 2170 | 2172 | rBV2 | 743    | 480     | 0.03%  | 0.003% |
| 64 | 8.122 | 2183 | 2187 | 2190 | rVB  | 531    | 343     | 0.02%  | 0.002% |
| 65 | 8.173 | 2192 | 2203 | 2206 | rBV3 | 6322   | 8782    | 0.52%  | 0.059% |
| 66 | 8.225 | 2207 | 2219 | 2234 | rVV  | 842067 | 1445304 | 85.46% | 9.633% |
| 67 | 8.309 | 2235 | 2245 | 2293 | rVB  | 474210 | 856928  | 50.67% | 5.712% |
| 68 | 8.627 | 2341 | 2344 | 2347 | rBV2 | 327    | 303     | 0.02%  | 0.002% |
| 69 | 8.701 | 2364 | 2367 | 2372 | rBV3 | 381    | 367     | 0.02%  | 0.002% |
| 70 | 8.746 | 2378 | 2381 | 2385 | rBV2 | 366    | 304     | 0.02%  | 0.002% |
| 71 | 8.813 | 2397 | 2402 | 2405 | rBV  | 778    | 801     | 0.05%  | 0.005% |

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

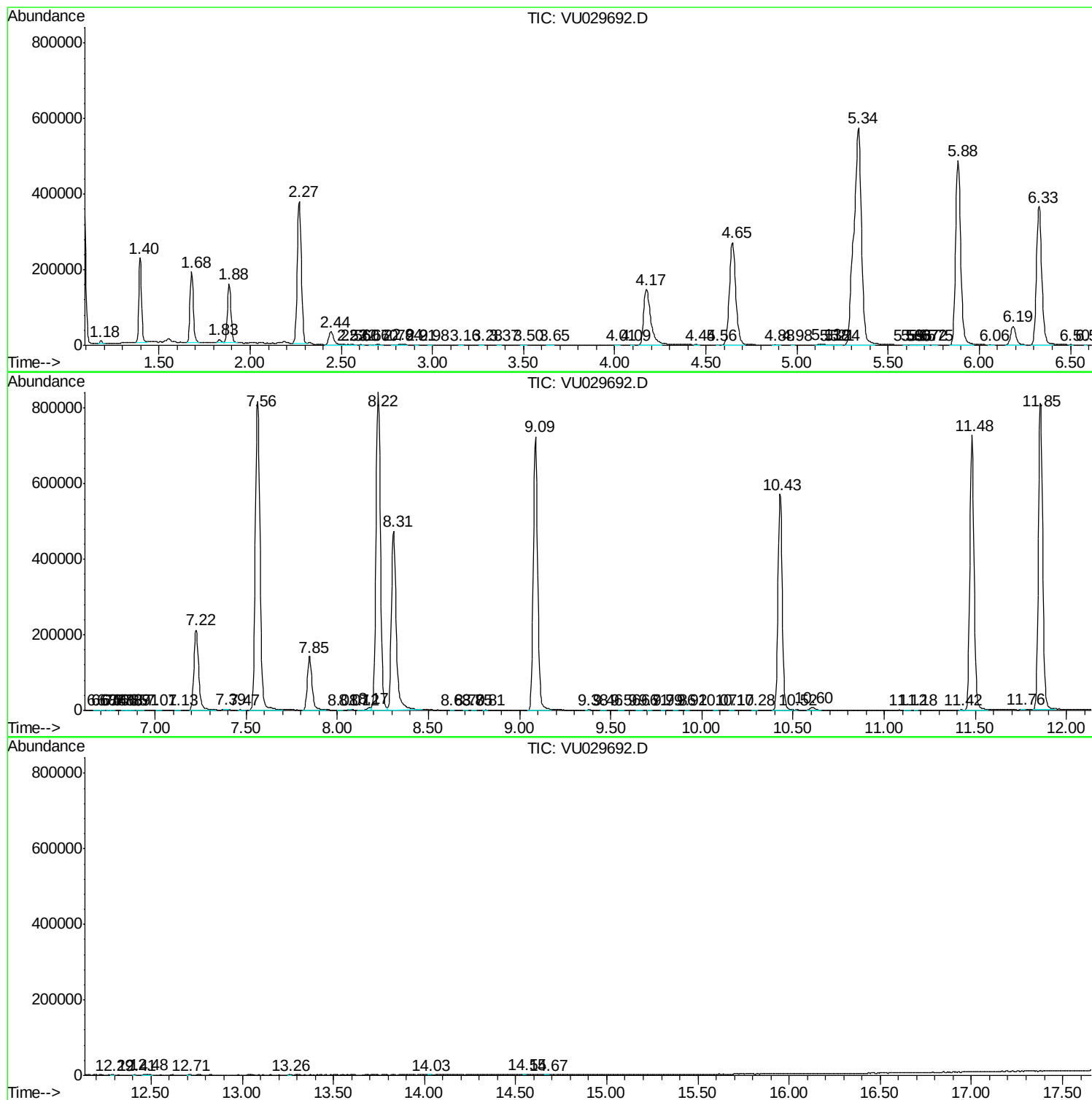
|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 9.087  | 2474 | 2487 | 2514 | rBV  | 723906 | 1205184 | 71.26% | 8.033% |
| 73  | 9.376  | 2572 | 2577 | 2579 | rBV3 | 639    | 630     | 0.04%  | 0.004% |
| 74  | 9.460  | 2597 | 2603 | 2607 | rBV3 | 374    | 499     | 0.03%  | 0.003% |
| 75  | 9.559  | 2628 | 2634 | 2638 | rBV3 | 377    | 506     | 0.03%  | 0.003% |
| 76  | 9.656  | 2659 | 2664 | 2669 | rBV2 | 303    | 406     | 0.02%  | 0.003% |
| 77  | 9.714  | 2677 | 2682 | 2685 | rBV2 | 336    | 378     | 0.02%  | 0.003% |
| 78  | 9.788  | 2701 | 2705 | 2708 | rBV2 | 300    | 241     | 0.01%  | 0.002% |
| 79  | 9.858  | 2722 | 2727 | 2730 | rBV3 | 312    | 314     | 0.02%  | 0.002% |
| 80  | 9.919  | 2743 | 2746 | 2749 | rBV  | 286    | 264     | 0.02%  | 0.002% |
| 81  | 10.074 | 2791 | 2794 | 2799 | rBV2 | 315    | 317     | 0.02%  | 0.002% |
| 82  | 10.167 | 2817 | 2823 | 2826 | rBV2 | 515    | 560     | 0.03%  | 0.004% |
| 83  | 10.283 | 2856 | 2859 | 2865 | rBV3 | 284    | 344     | 0.02%  | 0.002% |
| 84  | 10.427 | 2891 | 2904 | 2926 | rBV  | 572151 | 925753  | 54.74% | 6.170% |
| 85  | 10.517 | 2929 | 2932 | 2933 | rBV2 | 406    | 224     | 0.01%  | 0.001% |
| 86  | 10.604 | 2949 | 2959 | 2973 | rVB2 | 7624   | 13960   | 0.83%  | 0.093% |
| 87  | 11.119 | 3115 | 3119 | 3127 | rVB2 | 548    | 506     | 0.03%  | 0.003% |
| 88  | 11.177 | 3133 | 3137 | 3139 | rBV2 | 265    | 223     | 0.01%  | 0.001% |
| 89  | 11.421 | 3210 | 3213 | 3218 | rVB4 | 767    | 656     | 0.04%  | 0.004% |
| 90  | 11.482 | 3219 | 3232 | 3258 | rBV  | 728457 | 1173862 | 69.41% | 7.824% |
| 91  | 11.765 | 3315 | 3320 | 3323 | rBV3 | 1156   | 1330    | 0.08%  | 0.009% |
| 92  | 11.855 | 3336 | 3348 | 3373 | rBV  | 810476 | 1333545 | 78.85% | 8.888% |
| 93  | 12.289 | 3479 | 3483 | 3485 | rBV2 | 499    | 326     | 0.02%  | 0.002% |
| 94  | 12.411 | 3517 | 3521 | 3522 | rBV  | 387    | 282     | 0.02%  | 0.002% |
| 95  | 12.479 | 3533 | 3542 | 3551 | rVB6 | 1727   | 2930    | 0.17%  | 0.020% |
| 96  | 12.710 | 3610 | 3614 | 3615 | rBV2 | 378    | 324     | 0.02%  | 0.002% |
| 97  | 13.257 | 3781 | 3784 | 3787 | rBV  | 580    | 472     | 0.03%  | 0.003% |
| 98  | 14.025 | 4021 | 4023 | 4027 | rBV2 | 404    | 219     | 0.01%  | 0.001% |
| 99  | 14.549 | 4183 | 4186 | 4188 | rBV  | 914    | 525     | 0.03%  | 0.003% |
| 100 | 14.672 | 4220 | 4224 | 4227 | rBV2 | 552    | 588     | 0.03%  | 0.004% |

Sum of corrected areas: 15003434

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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



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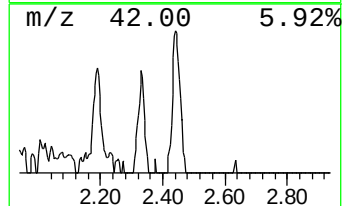
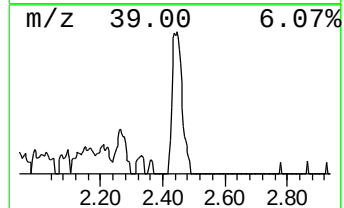
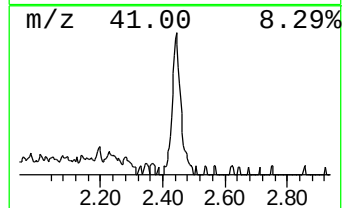
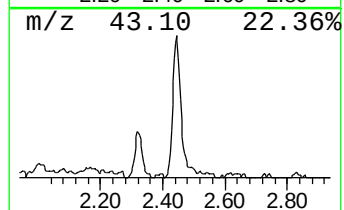
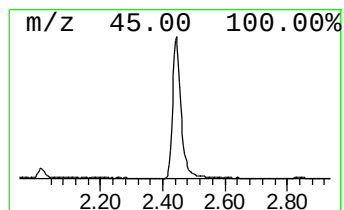
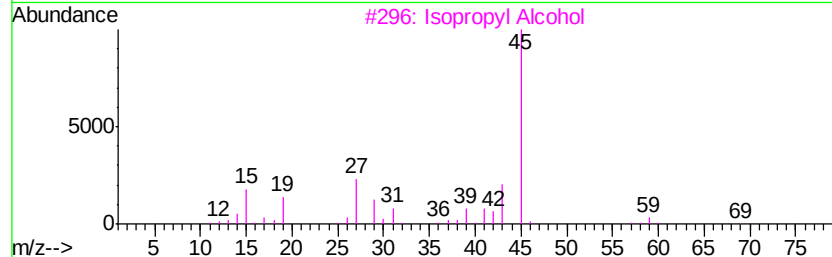
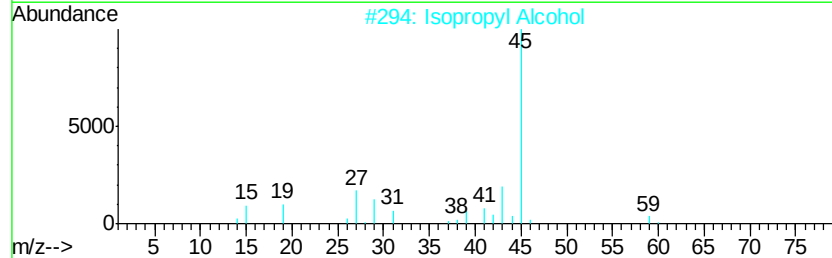
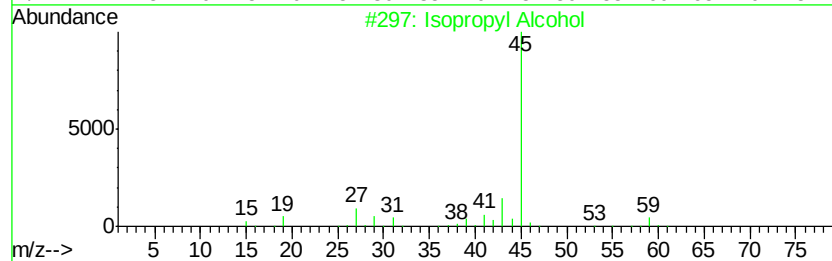
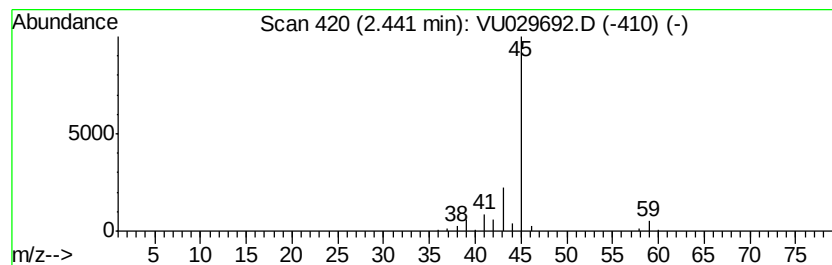
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM021519WMA.M  
Quant Title : VOC Analysis

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

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Peak Number 1 Isopropyl Alcohol Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 3.38 ug/L | 65611 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 90   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 83   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 4    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 5    |    |   | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 43   |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|-------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                   |      |         |       |          | #                     | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.44 | 3.4     | ug/L  | 65611    | 1                     | 5.88 | 969604 | 50.0 |