

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031055.D  
 Acq On : 11 Apr 2019 09:34  
 Operator : JC/SP  
 Sample : K2340-15  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 45 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF2R2

## 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\SOMULM040519WMA.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       | 22            | 28          | 33           | rBV2     | 17333          | 17078         | 0.83%           | 0.107%        |
| 2         | 1.325       | 69            | 73          | 83           | rVB2     | 11064          | 12224         | 0.60%           | 0.077%        |
| 3         | 1.396       | 87            | 95          | 106          | rBV      | 301820         | 316032        | 15.39%          | 1.982%        |
| 4         | 1.675       | 175           | 182         | 199          | rVB      | 232130         | 298057        | 14.52%          | 1.869%        |
| 5         | 2.267       | 355           | 366         | 379          | rBV      | 464748         | 715224        | 34.83%          | 4.486%        |
| 6         | 2.437       | 408           | 419         | 446          | rBV      | 93499          | 175793        | 8.56%           | 1.102%        |
| 7         | 2.701       | 491           | 501         | 511          | rVB8     | 4529           | 8797          | 0.43%           | 0.055%        |
| 8         | 2.817       | 534           | 537         | 540          | rVV3     | 1393           | 1165          | 0.06%           | 0.007%        |
| 9         | 2.984       | 586           | 589         | 593          | rVB5     | 755            | 667           | 0.03%           | 0.004%        |
| 10        | 3.045       | 603           | 608         | 613          | rBV5     | 925            | 1138          | 0.06%           | 0.007%        |
| 11        | 3.183       | 640           | 651         | 659          | rBV6     | 5565           | 12507         | 0.61%           | 0.078%        |
| 12        | 3.328       | 693           | 696         | 703          | rVB6     | 701            | 697           | 0.03%           | 0.004%        |
| 13        | 3.370       | 705           | 709         | 711          | rBV3     | 895            | 767           | 0.04%           | 0.005%        |
| 14        | 3.489       | 743           | 746         | 752          | rVB4     | 986            | 871           | 0.04%           | 0.005%        |
| 15        | 3.563       | 766           | 769         | 775          | rVB3     | 853            | 817           | 0.04%           | 0.005%        |
| 16        | 3.630       | 786           | 790         | 798          | rVB3     | 685            | 963           | 0.05%           | 0.006%        |
| 17        | 3.910       | 873           | 877         | 882          | rVB3     | 927            | 917           | 0.04%           | 0.006%        |
| 18        | 3.949       | 886           | 889         | 894          | rVB2     | 855            | 553           | 0.03%           | 0.003%        |
| 19        | 4.106       | 933           | 938         | 941          | rBV4     | 859            | 799           | 0.04%           | 0.005%        |
| 20        | 4.170       | 944           | 958         | 995          | rBV      | 204932         | 566541        | 27.59%          | 3.553%        |
| 21        | 4.473       | 1049          | 1052        | 1054         | rBV3     | 920            | 594           | 0.03%           | 0.004%        |
| 22        | 4.643       | 1088          | 1105        | 1130         | rBV      | 329310         | 816814        | 39.78%          | 5.123%        |
| 23        | 4.878       | 1175          | 1178        | 1179         | rBV3     | 1122           | 658           | 0.03%           | 0.004%        |
| 24        | 4.978       | 1206          | 1209        | 1211         | rBV4     | 1049           | 710           | 0.03%           | 0.004%        |
| 25        | 5.032       | 1224          | 1226        | 1231         | rVB3     | 1290           | 818           | 0.04%           | 0.005%        |
| 26        | 5.093       | 1241          | 1245        | 1249         | rBV4     | 809            | 834           | 0.04%           | 0.005%        |
| 27        | 5.193       | 1273          | 1276        | 1280         | rVB3     | 945            | 678           | 0.03%           | 0.004%        |
| 28        | 5.215       | 1280          | 1283        | 1288         | rBV4     | 604            | 559           | 0.03%           | 0.004%        |
| 29        | 5.334       | 1297          | 1320        | 1341         | rBV2     | 689457         | 2053331       | 100.00%         | 12.877%       |
| 30        | 5.672       | 1421          | 1425        | 1431         | rVB4     | 1638           | 1460          | 0.07%           | 0.009%        |
| 31        | 5.881       | 1477          | 1490        | 1520         | rBV      | 588239         | 1186507       | 57.78%          | 7.441%        |
| 32        | 6.084       | 1550          | 1553        | 1560         | rVB5     | 1934           | 1934          | 0.09%           | 0.012%        |
| 33        | 6.186       | 1571          | 1585        | 1594         | rBV5     | 6797           | 14135         | 0.69%           | 0.089%        |
| 34        | 6.267       | 1605          | 1610        | 1613         | rBV5     | 878            | 873           | 0.04%           | 0.005%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 6.325  | 1614 | 1628 | 1654 | rVV  | 459718 | 931207  | 45.35% | 5.840% |
| 36 | 6.608  | 1713 | 1716 | 1719 | rBV2 | 711    | 574     | 0.03%  | 0.004% |
| 37 | 6.659  | 1728 | 1732 | 1739 | rVV4 | 1519   | 1769    | 0.09%  | 0.011% |
| 38 | 6.749  | 1757 | 1760 | 1764 | rVB4 | 791    | 651     | 0.03%  | 0.004% |
| 39 | 6.817  | 1777 | 1781 | 1783 | rBV4 | 1442   | 1218    | 0.06%  | 0.008% |
| 40 | 6.858  | 1792 | 1794 | 1800 | rVB3 | 1047   | 810     | 0.04%  | 0.005% |
| 41 | 6.891  | 1800 | 1804 | 1806 | rBV4 | 759    | 646     | 0.03%  | 0.004% |
| 42 | 6.929  | 1813 | 1816 | 1818 | rVV2 | 811    | 619     | 0.03%  | 0.004% |
| 43 | 7.010  | 1838 | 1841 | 1844 | rBV2 | 808    | 585     | 0.03%  | 0.004% |
| 44 | 7.045  | 1849 | 1852 | 1855 | rBV3 | 878    | 563     | 0.03%  | 0.004% |
| 45 | 7.174  | 1886 | 1892 | 1895 | rVB5 | 967    | 984     | 0.05%  | 0.006% |
| 46 | 7.225  | 1895 | 1908 | 1928 | rBV  | 249063 | 463094  | 22.55% | 2.904% |
| 47 | 7.383  | 1952 | 1957 | 1959 | rBV3 | 4234   | 3993    | 0.19%  | 0.025% |
| 48 | 7.563  | 1999 | 2013 | 2031 | rBV  | 862212 | 1534301 | 74.72% | 9.622% |
| 49 | 7.846  | 2091 | 2101 | 2123 | rBV  | 170720 | 307328  | 14.97% | 1.927% |
| 50 | 8.084  | 2172 | 2175 | 2180 | rVB6 | 1139   | 968     | 0.05%  | 0.006% |
| 51 | 8.138  | 2188 | 2192 | 2194 | rBV2 | 867    | 690     | 0.03%  | 0.004% |
| 52 | 8.177  | 2195 | 2204 | 2211 | rBV5 | 4642   | 6849    | 0.33%  | 0.043% |
| 53 | 8.225  | 2212 | 2219 | 2225 | rBV5 | 3601   | 5073    | 0.25%  | 0.032% |
| 54 | 8.309  | 2233 | 2245 | 2277 | rBV  | 594798 | 1193995 | 58.15% | 7.488% |
| 55 | 8.807  | 2396 | 2400 | 2404 | rVB3 | 974    | 734     | 0.04%  | 0.005% |
| 56 | 8.865  | 2415 | 2418 | 2421 | rBV2 | 867    | 565     | 0.03%  | 0.004% |
| 57 | 9.042  | 2469 | 2473 | 2475 | rBV3 | 758    | 651     | 0.03%  | 0.004% |
| 58 | 9.087  | 2475 | 2487 | 2524 | rBV  | 861145 | 1501067 | 73.10% | 9.414% |
| 59 | 9.302  | 2552 | 2554 | 2557 | rBV3 | 970    | 600     | 0.03%  | 0.004% |
| 60 | 9.482  | 2605 | 2610 | 2612 | rBV2 | 972    | 794     | 0.04%  | 0.005% |
| 61 | 9.640  | 2654 | 2659 | 2667 | rBV4 | 986    | 1380    | 0.07%  | 0.009% |
| 62 | 9.752  | 2691 | 2694 | 2699 | rBV3 | 575    | 568     | 0.03%  | 0.004% |
| 63 | 9.942  | 2751 | 2753 | 2759 | rVB2 | 1208   | 835     | 0.04%  | 0.005% |
| 64 | 9.977  | 2760 | 2764 | 2769 | rVB2 | 708    | 667     | 0.03%  | 0.004% |
| 65 | 10.058 | 2786 | 2789 | 2793 | rBV3 | 875    | 643     | 0.03%  | 0.004% |
| 66 | 10.164 | 2817 | 2822 | 2824 | rBV3 | 1097   | 769     | 0.04%  | 0.005% |
| 67 | 10.199 | 2831 | 2833 | 2840 | rVB3 | 877    | 896     | 0.04%  | 0.006% |
| 68 | 10.235 | 2840 | 2844 | 2846 | rBV2 | 808    | 686     | 0.03%  | 0.004% |
| 69 | 10.276 | 2850 | 2857 | 2860 | rBV3 | 635    | 621     | 0.03%  | 0.004% |
| 70 | 10.427 | 2891 | 2904 | 2933 | rVV  | 637082 | 1046973 | 50.99% | 6.566% |
| 71 | 10.530 | 2934 | 2936 | 2941 | rVB  | 1432   | 897     | 0.04%  | 0.006% |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.579 | 2948 | 2951 | 2954 | rBV2 | 1369   | 1243    | 0.06%  | 0.008% |
| 73  | 10.604 | 2954 | 2959 | 2965 | rVV6 | 5809   | 7136    | 0.35%  | 0.045% |
| 74  | 10.630 | 2965 | 2967 | 2974 | rVB5 | 1578   | 1295    | 0.06%  | 0.008% |
| 75  | 10.971 | 3067 | 3073 | 3075 | rBV3 | 943    | 889     | 0.04%  | 0.006% |
| 76  | 11.013 | 3083 | 3086 | 3091 | rBV2 | 762    | 631     | 0.03%  | 0.004% |
| 77  | 11.061 | 3097 | 3101 | 3104 | rBV2 | 840    | 730     | 0.04%  | 0.005% |
| 78  | 11.177 | 3134 | 3137 | 3141 | rVB3 | 1087   | 794     | 0.04%  | 0.005% |
| 79  | 11.321 | 3180 | 3182 | 3189 | rVB2 | 950    | 886     | 0.04%  | 0.006% |
| 80  | 11.376 | 3189 | 3199 | 3203 | rBV5 | 1082   | 1812    | 0.09%  | 0.011% |
| 81  | 11.398 | 3203 | 3206 | 3209 | rBV3 | 872    | 618     | 0.03%  | 0.004% |
| 82  | 11.479 | 3219 | 3231 | 3264 | rBV  | 798549 | 1328715 | 64.71% | 8.333% |
| 83  | 11.855 | 3336 | 3348 | 3369 | rBV  | 815088 | 1356635 | 66.07% | 8.508% |
| 84  | 12.283 | 3477 | 3481 | 3487 | rVB5 | 1069   | 1307    | 0.06%  | 0.008% |
| 85  | 12.318 | 3487 | 3492 | 3496 | rBV6 | 1286   | 1532    | 0.07%  | 0.010% |
| 86  | 12.373 | 3507 | 3509 | 3515 | rVB4 | 1154   | 936     | 0.05%  | 0.006% |
| 87  | 12.617 | 3582 | 3585 | 3588 | rBV  | 1164   | 936     | 0.05%  | 0.006% |
| 88  | 12.765 | 3628 | 3631 | 3634 | rVV3 | 1114   | 730     | 0.04%  | 0.005% |
| 89  | 13.302 | 3795 | 3798 | 3802 | rVB3 | 1003   | 607     | 0.03%  | 0.004% |
| 90  | 13.533 | 3867 | 3870 | 3875 | rVB3 | 1389   | 1146    | 0.06%  | 0.007% |
| 91  | 13.569 | 3879 | 3881 | 3885 | rVB2 | 1031   | 648     | 0.03%  | 0.004% |
| 92  | 13.630 | 3897 | 3900 | 3904 | rBV2 | 1370   | 1197    | 0.06%  | 0.008% |
| 93  | 13.697 | 3918 | 3921 | 3924 | rBV  | 1031   | 709     | 0.03%  | 0.004% |
| 94  | 13.742 | 3930 | 3935 | 3939 | rBV3 | 1087   | 1291    | 0.06%  | 0.008% |
| 95  | 14.279 | 4099 | 4102 | 4105 | rVB3 | 1541   | 977     | 0.05%  | 0.006% |
| 96  | 14.353 | 4121 | 4125 | 4131 | rBV4 | 1248   | 1249    | 0.06%  | 0.008% |
| 97  | 14.495 | 4163 | 4169 | 4174 | rVB4 | 1166   | 1508    | 0.07%  | 0.009% |
| 98  | 14.623 | 4207 | 4209 | 4213 | rBV3 | 1239   | 752     | 0.04%  | 0.005% |
| 99  | 14.733 | 4241 | 4243 | 4246 | rBV2 | 1047   | 733     | 0.04%  | 0.005% |
| 100 | 15.064 | 4343 | 4346 | 4348 | rBV2 | 1278   | 700     | 0.03%  | 0.004% |

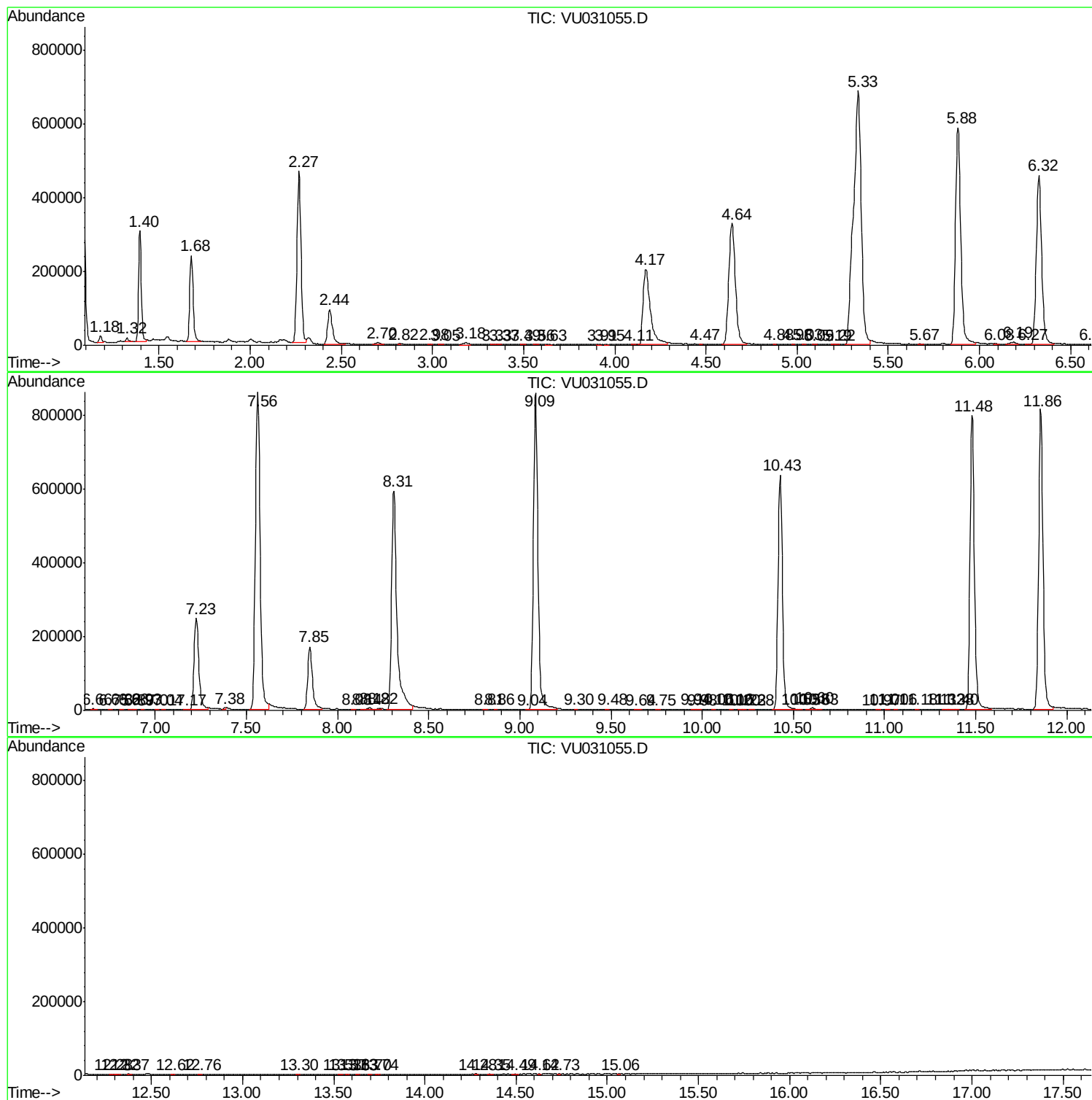
Sum of corrected areas: 15945117

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis

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



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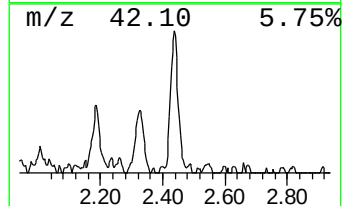
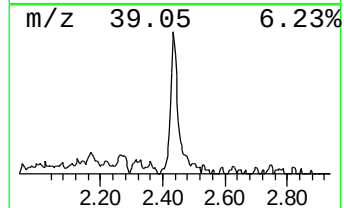
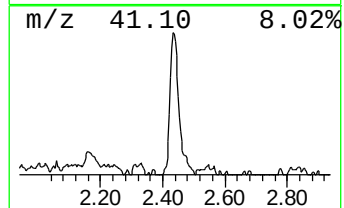
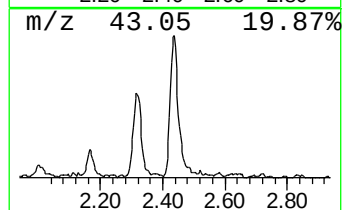
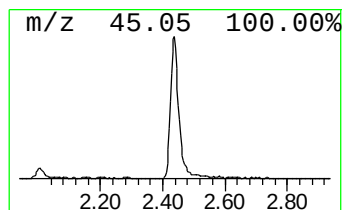
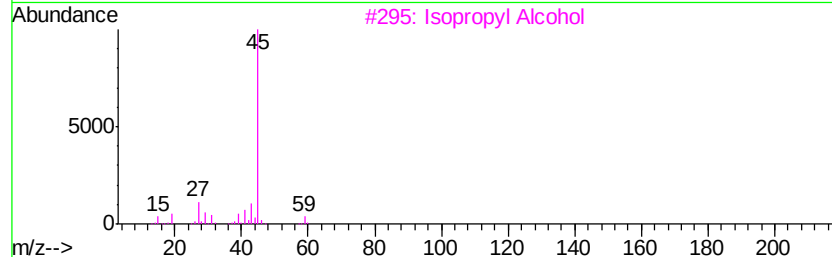
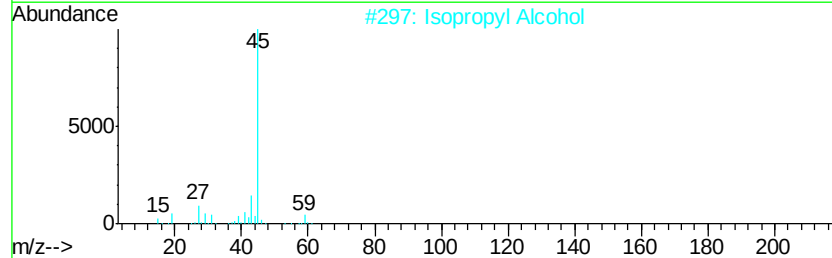
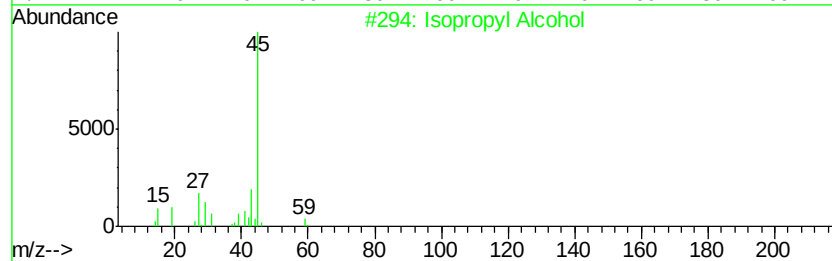
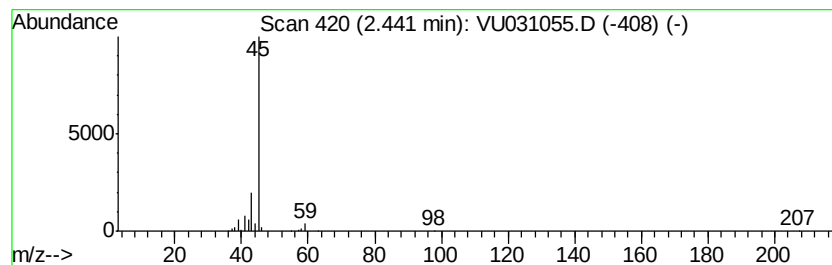
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis

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 | 7.41 ug/L | 175793 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 2    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 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 | 5    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | ---Internal Standard--- |      |         |      |
|-------------------|------|---------|-------|----------|-------------------------|------|---------|------|
|                   |      |         |       |          | #                       | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 7.4     | ug/L  | 175793   | 1                       | 5.88 | 1186510 | 50.0 |