

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031115.D  
 Acq On : 12 Apr 2019 09:24  
 Operator : JC/SP  
 Sample : K2341-16  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 107 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB738

## 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          | 40           | rBV      | 59913          | 58584         | 3.14%           | 0.379%        |
| 2         | 1.395       | 87            | 95          | 107          | rBV      | 249199         | 270901        | 14.51%          | 1.752%        |
| 3         | 1.678       | 174           | 183         | 195          | rVB      | 196232         | 255872        | 13.70%          | 1.655%        |
| 4         | 2.267       | 356           | 366         | 377          | rBV      | 384611         | 573846        | 30.73%          | 3.712%        |
| 5         | 2.437       | 407           | 419         | 436          | rBV      | 99157          | 178991        | 9.59%           | 1.158%        |
| 6         | 2.669       | 487           | 491         | 493          | rBV5     | 741            | 569           | 0.03%           | 0.004%        |
| 7         | 2.688       | 494           | 497         | 498          | rBV2     | 1191           | 719           | 0.04%           | 0.005%        |
| 8         | 2.826       | 528           | 540         | 541          | rBV8     | 6910           | 8289          | 0.44%           | 0.054%        |
| 9         | 2.977       | 583           | 587         | 590          | rVV3     | 1259           | 1070          | 0.06%           | 0.007%        |
| 10        | 2.993       | 590           | 592         | 599          | rVB3     | 1071           | 1189          | 0.06%           | 0.008%        |
| 11        | 3.183       | 648           | 651         | 655          | rBV3     | 957            | 814           | 0.04%           | 0.005%        |
| 12        | 3.235       | 663           | 667         | 669          | rBV2     | 878            | 593           | 0.03%           | 0.004%        |
| 13        | 3.350       | 699           | 703         | 704          | rBV2     | 771            | 549           | 0.03%           | 0.004%        |
| 14        | 3.527       | 752           | 758         | 761          | rBV3     | 762            | 575           | 0.03%           | 0.004%        |
| 15        | 3.807       | 840           | 845         | 850          | rVB3     | 720            | 778           | 0.04%           | 0.005%        |
| 16        | 3.900       | 868           | 874         | 877          | rBV3     | 809            | 1009          | 0.05%           | 0.007%        |
| 17        | 4.016       | 906           | 910         | 912          | rBV3     | 926            | 602           | 0.03%           | 0.004%        |
| 18        | 4.170       | 944           | 958         | 995          | rBV      | 204344         | 636578        | 34.09%          | 4.117%        |
| 19        | 4.354       | 1013          | 1015        | 1021         | rVB4     | 1473           | 1153          | 0.06%           | 0.007%        |
| 20        | 4.640       | 1086          | 1104        | 1136         | rBV      | 315449         | 795162        | 42.58%          | 5.143%        |
| 21        | 4.990       | 1210          | 1213        | 1217         | rBV5     | 848            | 535           | 0.03%           | 0.003%        |
| 22        | 5.051       | 1228          | 1232        | 1236         | rBV2     | 756            | 664           | 0.04%           | 0.004%        |
| 23        | 5.083       | 1239          | 1242        | 1246         | rVB      | 1321           | 908           | 0.05%           | 0.006%        |
| 24        | 5.228       | 1284          | 1287        | 1292         | rVB4     | 846            | 778           | 0.04%           | 0.005%        |
| 25        | 5.334       | 1292          | 1320        | 1352         | rBV2     | 614231         | 1867241       | 100.00%         | 12.077%       |
| 26        | 5.881       | 1477          | 1490        | 1516         | rBV      | 610272         | 1230621       | 65.91%          | 7.960%        |
| 27        | 6.144       | 1569          | 1572        | 1573         | rVV3     | 881            | 538           | 0.03%           | 0.003%        |
| 28        | 6.186       | 1573          | 1585        | 1597         | rVV5     | 21699          | 48311         | 2.59%           | 0.312%        |
| 29        | 6.325       | 1614          | 1628        | 1658         | rBV      | 421453         | 871582        | 46.68%          | 5.637%        |
| 30        | 6.884       | 1800          | 1802        | 1804         | rVV2     | 1201           | 694           | 0.04%           | 0.004%        |
| 31        | 6.910       | 1808          | 1810        | 1813         | rVB2     | 1143           | 608           | 0.03%           | 0.004%        |
| 32        | 6.939       | 1815          | 1819        | 1824         | rVB3     | 897            | 631           | 0.03%           | 0.004%        |
| 33        | 7.070       | 1855          | 1860        | 1871         | rVB8     | 1415           | 1809          | 0.10%           | 0.012%        |
| 34        | 7.125       | 1873          | 1877        | 1882         | rVB4     | 715            | 567           | 0.03%           | 0.004%        |

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 Peak separation: 5

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

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 35 | 7.160  | 1884 | 1888 | 1891 | rBV4 | 1123   | 836     | 0.04%  | 0.005% |
| 36 | 7.225  | 1896 | 1908 | 1926 | rBV  | 209319 | 387605  | 20.76% | 2.507% |
| 37 | 7.379  | 1952 | 1956 | 1957 | rBV3 | 2285   | 1491    | 0.08%  | 0.010% |
| 38 | 7.562  | 1999 | 2013 | 2026 | rBV  | 748362 | 1330656 | 71.26% | 8.607% |
| 39 | 7.633  | 2028 | 2035 | 2055 | rVB  | 138898 | 260945  | 13.97% | 1.688% |
| 40 | 7.849  | 2091 | 2102 | 2122 | rBV  | 145171 | 262116  | 14.04% | 1.695% |
| 41 | 8.058  | 2165 | 2167 | 2171 | rBV4 | 948    | 516     | 0.03%  | 0.003% |
| 42 | 8.090  | 2174 | 2177 | 2181 | rBV3 | 744    | 577     | 0.03%  | 0.004% |
| 43 | 8.157  | 2195 | 2198 | 2201 | rBV2 | 1314   | 914     | 0.05%  | 0.006% |
| 44 | 8.225  | 2208 | 2219 | 2234 | rBV  | 90909  | 156063  | 8.36%  | 1.009% |
| 45 | 8.308  | 2235 | 2245 | 2283 | rVV2 | 544134 | 1128761 | 60.45% | 7.301% |
| 46 | 8.469  | 2289 | 2295 | 2320 | rVB6 | 22913  | 50245   | 2.69%  | 0.325% |
| 47 | 8.659  | 2351 | 2354 | 2356 | rBV3 | 934    | 592     | 0.03%  | 0.004% |
| 48 | 8.804  | 2395 | 2399 | 2404 | rBV4 | 1217   | 1037    | 0.06%  | 0.007% |
| 49 | 8.845  | 2410 | 2412 | 2416 | rBV3 | 1081   | 663     | 0.04%  | 0.004% |
| 50 | 8.935  | 2437 | 2440 | 2445 | rVB4 | 894    | 564     | 0.03%  | 0.004% |
| 51 | 8.967  | 2447 | 2450 | 2453 | rVB  | 1037   | 506     | 0.03%  | 0.003% |
| 52 | 8.996  | 2453 | 2459 | 2463 | rBV4 | 1191   | 1093    | 0.06%  | 0.007% |
| 53 | 9.086  | 2474 | 2487 | 2514 | rBV  | 886100 | 1543313 | 82.65% | 9.982% |
| 54 | 9.273  | 2542 | 2545 | 2550 | rVB5 | 1373   | 960     | 0.05%  | 0.006% |
| 55 | 9.369  | 2569 | 2575 | 2577 | rBV6 | 1020   | 1058    | 0.06%  | 0.007% |
| 56 | 9.382  | 2577 | 2579 | 2582 | rVB3 | 964    | 625     | 0.03%  | 0.004% |
| 57 | 9.469  | 2602 | 2606 | 2608 | rBV4 | 1076   | 928     | 0.05%  | 0.006% |
| 58 | 9.521  | 2619 | 2622 | 2626 | rVB2 | 846    | 648     | 0.03%  | 0.004% |
| 59 | 9.672  | 2664 | 2669 | 2671 | rBV4 | 666    | 660     | 0.04%  | 0.004% |
| 60 | 9.755  | 2689 | 2695 | 2698 | rBV3 | 998    | 951     | 0.05%  | 0.006% |
| 61 | 9.900  | 2737 | 2740 | 2743 | rVB3 | 846    | 525     | 0.03%  | 0.003% |
| 62 | 9.964  | 2756 | 2760 | 2761 | rBV2 | 759    | 562     | 0.03%  | 0.004% |
| 63 | 10.006 | 2770 | 2773 | 2778 | rVB5 | 922    | 860     | 0.05%  | 0.006% |
| 64 | 10.045 | 2781 | 2785 | 2788 | rBV3 | 1665   | 1528    | 0.08%  | 0.010% |
| 65 | 10.109 | 2801 | 2805 | 2811 | rVB4 | 753    | 924     | 0.05%  | 0.006% |
| 66 | 10.173 | 2822 | 2825 | 2835 | rVB3 | 1310   | 1539    | 0.08%  | 0.010% |
| 67 | 10.218 | 2835 | 2839 | 2843 | rBV3 | 980    | 965     | 0.05%  | 0.006% |
| 68 | 10.247 | 2843 | 2848 | 2849 | rBV2 | 687    | 625     | 0.03%  | 0.004% |
| 69 | 10.292 | 2859 | 2862 | 2865 | rBV3 | 861    | 685     | 0.04%  | 0.004% |
| 70 | 10.427 | 2891 | 2904 | 2927 | rBV  | 598320 | 990433  | 53.04% | 6.406% |
| 71 | 10.598 | 2952 | 2957 | 2967 | rVB5 | 1447   | 2407    | 0.13%  | 0.016% |

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 Start Thrs: 0.2  
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Filtering: 5  
 Min Area: 0 % of largest Peak  
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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

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 10.829 | 3025 | 3029 | 3033 | rBV3 | 721    | 607     | 0.03%  | 0.004% |
| 73  | 10.910 | 3049 | 3054 | 3057 | rBV3 | 863    | 917     | 0.05%  | 0.006% |
| 74  | 11.083 | 3105 | 3108 | 3113 | rVB3 | 1394   | 895     | 0.05%  | 0.006% |
| 75  | 11.128 | 3119 | 3122 | 3124 | rBV  | 738    | 525     | 0.03%  | 0.003% |
| 76  | 11.276 | 3163 | 3168 | 3170 | rBV4 | 770    | 607     | 0.03%  | 0.004% |
| 77  | 11.292 | 3170 | 3173 | 3176 | rVV5 | 740    | 541     | 0.03%  | 0.003% |
| 78  | 11.479 | 3219 | 3231 | 3254 | rBV  | 758958 | 1266950 | 67.85% | 8.195% |
| 79  | 11.813 | 3332 | 3335 | 3336 | rBV  | 1492   | 860     | 0.05%  | 0.006% |
| 80  | 11.855 | 3336 | 3348 | 3367 | rVV  | 718395 | 1222027 | 65.45% | 7.904% |
| 81  | 12.250 | 3469 | 3471 | 3478 | rBV5 | 941    | 740     | 0.04%  | 0.005% |
| 82  | 12.549 | 3560 | 3564 | 3569 | rBV3 | 832    | 882     | 0.05%  | 0.006% |
| 83  | 12.720 | 3612 | 3617 | 3621 | rBV6 | 1381   | 1298    | 0.07%  | 0.008% |
| 84  | 12.919 | 3676 | 3679 | 3681 | rBV  | 982    | 614     | 0.03%  | 0.004% |
| 85  | 13.009 | 3702 | 3707 | 3711 | rBB4 | 1021   | 907     | 0.05%  | 0.006% |
| 86  | 13.038 | 3711 | 3716 | 3721 | rVB3 | 1456   | 1492    | 0.08%  | 0.010% |
| 87  | 13.070 | 3721 | 3726 | 3730 | rBV5 | 957    | 1138    | 0.06%  | 0.007% |
| 88  | 13.170 | 3753 | 3757 | 3760 | rBV4 | 803    | 609     | 0.03%  | 0.004% |
| 89  | 13.263 | 3782 | 3786 | 3795 | rBV4 | 700    | 1087    | 0.06%  | 0.007% |
| 90  | 13.864 | 3968 | 3973 | 3974 | rBV2 | 777    | 635     | 0.03%  | 0.004% |
| 91  | 14.009 | 4015 | 4018 | 4021 | rBV  | 915    | 687     | 0.04%  | 0.004% |
| 92  | 14.048 | 4027 | 4030 | 4034 | rBV2 | 906    | 570     | 0.03%  | 0.004% |
| 93  | 14.070 | 4034 | 4037 | 4040 | rBV3 | 807    | 677     | 0.04%  | 0.004% |
| 94  | 14.260 | 4094 | 4096 | 4098 | rBV3 | 1002   | 553     | 0.03%  | 0.004% |
| 95  | 14.639 | 4212 | 4214 | 4217 | rBV  | 951    | 772     | 0.04%  | 0.005% |
| 96  | 14.864 | 4282 | 4284 | 4288 | rBV2 | 1167   | 827     | 0.04%  | 0.005% |
| 97  | 14.974 | 4315 | 4318 | 4320 | rBV4 | 1238   | 735     | 0.04%  | 0.005% |
| 98  | 15.385 | 4443 | 4446 | 4447 | rBV3 | 1154   | 714     | 0.04%  | 0.005% |
| 99  | 15.517 | 4485 | 4487 | 4491 | rBV2 | 1560   | 1152    | 0.06%  | 0.007% |
| 100 | 15.761 | 4558 | 4563 | 4565 | rBV5 | 2150   | 2045    | 0.11%  | 0.013% |

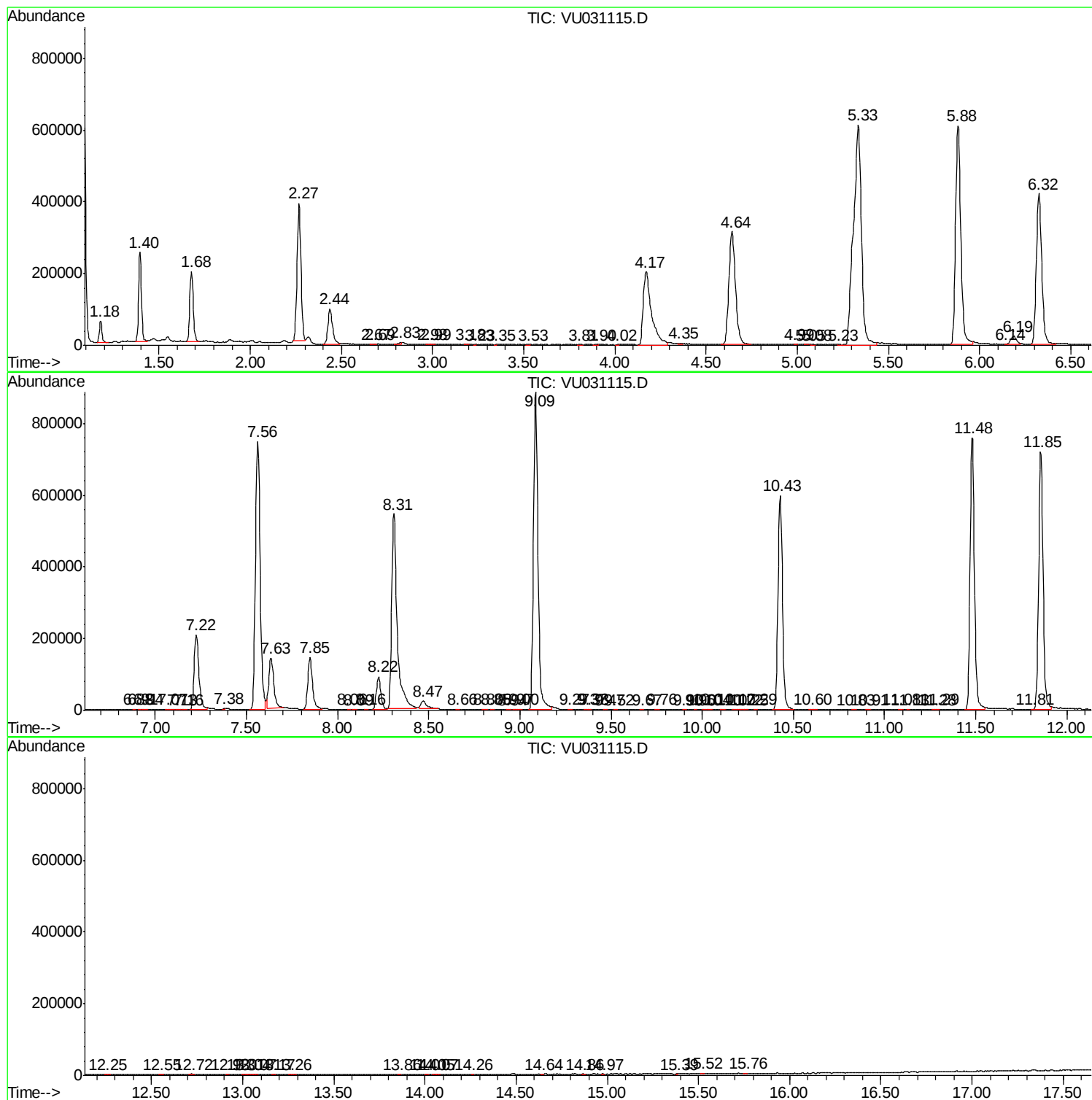
Sum of corrected areas: 15460769

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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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
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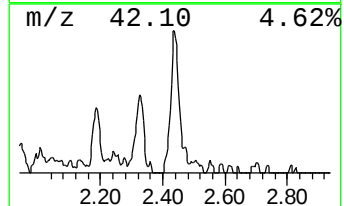
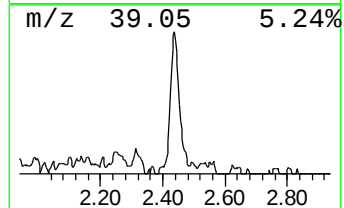
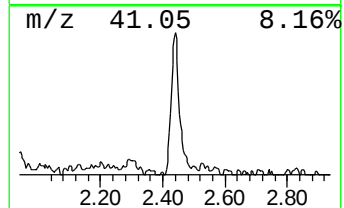
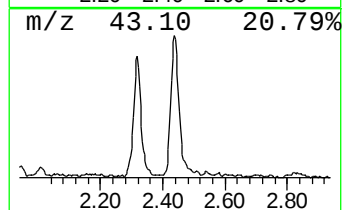
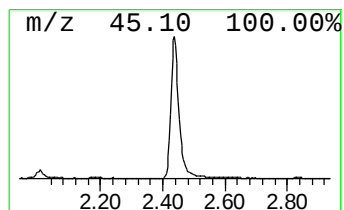
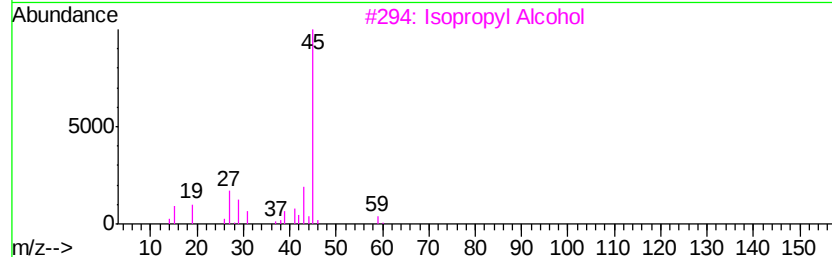
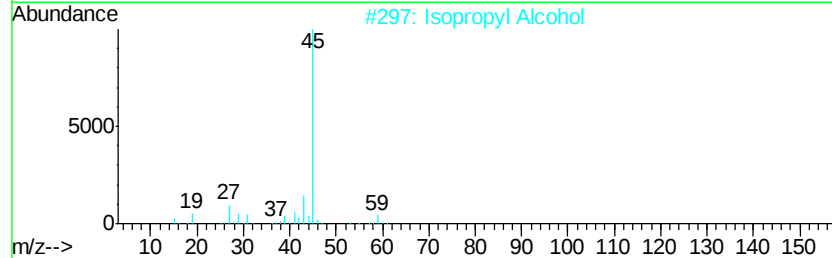
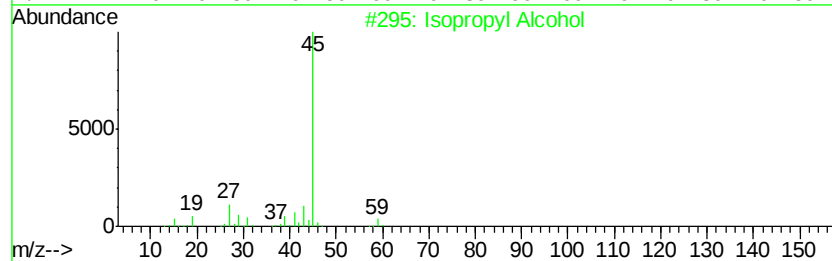
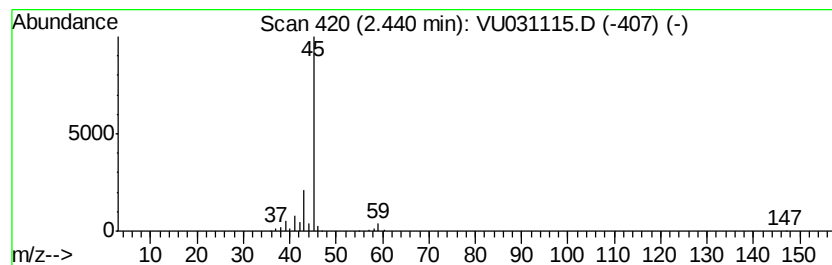
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM040519WMA.M  
Quant Title : VOC Analysis

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

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.44 | 7.27 ug/L | 178991 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 83   |
| 2    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 83   |
| 3    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 64   |
| 4    |    | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 40   |
| 5    |    | Formamide         | 45 | CH3NO   | 000075-12-7 | 5    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|-------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                   |      |         |       |          | #                     | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 7.3     | ug/L  | 178991   | 1                     | 5.88 | 1230620 | 50.0 |