

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU032419\  
 Data File : VU030362.D  
 Acq On : 24 Mar 2019 11:53  
 Operator : JC/SP  
 Sample : K2083-07  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BF1A9

## 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\SOMULM032319WMA.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          | 41           | rVB2     | 16491          | 17443         | 1.06%           | 0.128%        |
| 2         | 1.331       | 70            | 75          | 81           | rVB2     | 4482           | 4709          | 0.29%           | 0.034%        |
| 3         | 1.399       | 89            | 96          | 106          | rBV      | 274595         | 273655        | 16.59%          | 2.004%        |
| 4         | 1.678       | 175           | 183         | 196          | rVB      | 189007         | 244999        | 14.85%          | 1.794%        |
| 5         | 2.010       | 280           | 286         | 295          | rVB4     | 5732           | 8898          | 0.54%           | 0.065%        |
| 6         | 2.270       | 355           | 367         | 380          | rBV      | 411845         | 644639        | 39.07%          | 4.721%        |
| 7         | 2.444       | 410           | 421         | 438          | rBV      | 94690          | 167314        | 10.14%          | 1.225%        |
| 8         | 2.582       | 461           | 464         | 468          | rBV      | 1347           | 992           | 0.06%           | 0.007%        |
| 9         | 2.701       | 496           | 501         | 506          | rBV2     | 2209           | 3050          | 0.18%           | 0.022%        |
| 10        | 2.839       | 537           | 544         | 547          | rBV2     | 2431           | 2971          | 0.18%           | 0.022%        |
| 11        | 2.984       | 581           | 589         | 590          | rBV5     | 2078           | 2291          | 0.14%           | 0.017%        |
| 12        | 3.302       | 683           | 688         | 689          | rBV2     | 1268           | 1021          | 0.06%           | 0.007%        |
| 13        | 3.334       | 695           | 698         | 701          | rBV      | 1512           | 1249          | 0.08%           | 0.009%        |
| 14        | 3.553       | 761           | 766         | 769          | rBV      | 916            | 923           | 0.06%           | 0.007%        |
| 15        | 3.755       | 826           | 829         | 836          | rVB      | 1109           | 1322          | 0.08%           | 0.010%        |
| 16        | 3.807       | 840           | 845         | 848          | rBV2     | 1320           | 1406          | 0.09%           | 0.010%        |
| 17        | 4.045       | 915           | 919         | 920          | rBV      | 1367           | 1062          | 0.06%           | 0.008%        |
| 18        | 4.054       | 920           | 922         | 926          | rVV      | 1552           | 1243          | 0.08%           | 0.009%        |
| 19        | 4.173       | 946           | 959         | 993          | rBV      | 155079         | 525831        | 31.87%          | 3.851%        |
| 20        | 4.485       | 1053          | 1056        | 1061         | rVB3     | 1394           | 1267          | 0.08%           | 0.009%        |
| 21        | 4.563       | 1077          | 1080        | 1084         | rVB      | 1526           | 1143          | 0.07%           | 0.008%        |
| 22        | 4.643       | 1089          | 1105        | 1127         | rBV      | 263808         | 646707        | 39.20%          | 4.736%        |
| 23        | 4.894       | 1177          | 1183        | 1191         | rVB3     | 1807           | 2805          | 0.17%           | 0.021%        |
| 24        | 4.980       | 1207          | 1210        | 1214         | rBV      | 1019           | 999           | 0.06%           | 0.007%        |
| 25        | 5.119       | 1250          | 1253        | 1260         | rVB      | 1334           | 1207          | 0.07%           | 0.009%        |
| 26        | 5.186       | 1270          | 1274        | 1280         | rBV2     | 1208           | 1323          | 0.08%           | 0.010%        |
| 27        | 5.337       | 1298          | 1321        | 1340         | rBV2     | 563467         | 1649896       | 100.00%         | 12.084%       |
| 28        | 5.521       | 1375          | 1378        | 1382         | rVB      | 1470           | 1342          | 0.08%           | 0.010%        |
| 29        | 5.633       | 1410          | 1413        | 1416         | rVB      | 1750           | 1128          | 0.07%           | 0.008%        |
| 30        | 5.656       | 1416          | 1420        | 1425         | rBV      | 2112           | 2321          | 0.14%           | 0.017%        |
| 31        | 5.807       | 1461          | 1467        | 1470         | rBV2     | 1793           | 1898          | 0.12%           | 0.014%        |
| 32        | 5.884       | 1478          | 1491        | 1522         | rBV      | 521073         | 1064686       | 64.53%          | 7.798%        |
| 33        | 6.183       | 1569          | 1584        | 1606         | rBV      | 328025         | 658971        | 39.94%          | 4.826%        |
| 34        | 6.328       | 1614          | 1629        | 1648         | rBV      | 366650         | 749274        | 45.41%          | 5.488%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |        |        |
|----|-------|------|------|------|------|--------|---------|--------|--------|
| 35 | 6.421 | 1656 | 1658 | 1665 | rVB4 | 1827   | 1694    | 0.10%  | 0.012% |
| 36 | 6.450 | 1665 | 1667 | 1672 | rVB  | 1148   | 981     | 0.06%  | 0.007% |
| 37 | 6.505 | 1681 | 1684 | 1687 | rVB  | 1810   | 1074    | 0.07%  | 0.008% |
| 38 | 6.527 | 1687 | 1691 | 1693 | rBV  | 1509   | 1343    | 0.08%  | 0.010% |
| 39 | 6.591 | 1709 | 1711 | 1715 | rVB  | 1552   | 1121    | 0.07%  | 0.008% |
| 40 | 6.630 | 1715 | 1723 | 1726 | rBV3 | 2028   | 2552    | 0.15%  | 0.019% |
| 41 | 6.704 | 1743 | 1746 | 1753 | rVB  | 1281   | 1428    | 0.09%  | 0.010% |
| 42 | 6.742 | 1753 | 1758 | 1761 | rVB  | 1514   | 1277    | 0.08%  | 0.009% |
| 43 | 6.765 | 1761 | 1765 | 1767 | rBV  | 1701   | 1332    | 0.08%  | 0.010% |
| 44 | 6.813 | 1773 | 1780 | 1786 | rBV2 | 1519   | 2004    | 0.12%  | 0.015% |
| 45 | 6.845 | 1786 | 1790 | 1794 | rVB  | 1104   | 1018    | 0.06%  | 0.007% |
| 46 | 6.945 | 1817 | 1821 | 1825 | rVB  | 1481   | 1533    | 0.09%  | 0.011% |
| 47 | 7.003 | 1836 | 1839 | 1841 | rBV  | 1687   | 1205    | 0.07%  | 0.009% |
| 48 | 7.138 | 1877 | 1881 | 1884 | rBV  | 1363   | 967     | 0.06%  | 0.007% |
| 49 | 7.160 | 1884 | 1888 | 1893 | rBV2 | 1084   | 952     | 0.06%  | 0.007% |
| 50 | 7.225 | 1897 | 1908 | 1932 | rBV  | 204920 | 379537  | 23.00% | 2.780% |
| 51 | 7.459 | 1977 | 1981 | 1989 | rBV2 | 1474   | 1806    | 0.11%  | 0.013% |
| 52 | 7.562 | 1997 | 2013 | 2032 | rBV  | 702429 | 1256854 | 76.18% | 9.205% |
| 53 | 7.849 | 2091 | 2102 | 2118 | rBV  | 136060 | 240223  | 14.56% | 1.759% |
| 54 | 7.968 | 2136 | 2139 | 2142 | rVB  | 2195   | 1321    | 0.08%  | 0.010% |
| 55 | 7.993 | 2142 | 2147 | 2150 | rBV  | 1562   | 1512    | 0.09%  | 0.011% |
| 56 | 8.009 | 2150 | 2152 | 2156 | rVV2 | 1403   | 1209    | 0.07%  | 0.009% |
| 57 | 8.029 | 2156 | 2158 | 2164 | rVB  | 1946   | 1429    | 0.09%  | 0.010% |
| 58 | 8.067 | 2164 | 2170 | 2172 | rBV3 | 1768   | 1766    | 0.11%  | 0.013% |
| 59 | 8.096 | 2177 | 2179 | 2187 | rVB  | 1892   | 2179    | 0.13%  | 0.016% |
| 60 | 8.135 | 2187 | 2191 | 2195 | rBV2 | 1274   | 1559    | 0.09%  | 0.011% |
| 61 | 8.225 | 2211 | 2219 | 2233 | rVB5 | 8033   | 14895   | 0.90%  | 0.109% |
| 62 | 8.308 | 2234 | 2245 | 2280 | rBV  | 499257 | 924517  | 56.03% | 6.771% |
| 63 | 8.627 | 2336 | 2344 | 2348 | rVB  | 1187   | 1573    | 0.10%  | 0.012% |
| 64 | 8.675 | 2354 | 2359 | 2361 | rBV2 | 1257   | 1194    | 0.07%  | 0.009% |
| 65 | 8.746 | 2372 | 2381 | 2386 | rVB  | 2052   | 2622    | 0.16%  | 0.019% |
| 66 | 8.775 | 2386 | 2390 | 2393 | rBV  | 1448   | 1461    | 0.09%  | 0.011% |
| 67 | 8.958 | 2440 | 2447 | 2451 | rVB3 | 2459   | 2995    | 0.18%  | 0.022% |
| 68 | 9.086 | 2475 | 2487 | 2525 | rVV  | 745327 | 1282555 | 77.74% | 9.393% |
| 69 | 9.254 | 2533 | 2539 | 2542 | rBV4 | 2268   | 2332    | 0.14%  | 0.017% |
| 70 | 9.305 | 2549 | 2555 | 2560 | rBV2 | 1123   | 1312    | 0.08%  | 0.010% |
| 71 | 9.363 | 2568 | 2573 | 2574 | rBV2 | 2091   | 1743    | 0.11%  | 0.013% |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |         |        |        |
|-----|--------|------|------|------|------|--------|---------|--------|--------|
| 72  | 9.414  | 2585 | 2589 | 2595 | rVB  | 1517   | 1834    | 0.11%  | 0.013% |
| 73  | 9.453  | 2595 | 2601 | 2604 | rBV2 | 1511   | 1537    | 0.09%  | 0.011% |
| 74  | 9.469  | 2604 | 2606 | 2616 | rVB4 | 1448   | 2025    | 0.12%  | 0.015% |
| 75  | 9.530  | 2619 | 2625 | 2628 | rBV3 | 1628   | 1532    | 0.09%  | 0.011% |
| 76  | 9.553  | 2628 | 2632 | 2636 | rBV2 | 1467   | 1234    | 0.07%  | 0.009% |
| 77  | 9.582  | 2636 | 2641 | 2644 | rBV2 | 872    | 946     | 0.06%  | 0.007% |
| 78  | 9.691  | 2672 | 2675 | 2681 | rVB  | 1095   | 1151    | 0.07%  | 0.008% |
| 79  | 9.868  | 2726 | 2730 | 2736 | rVB2 | 1178   | 1170    | 0.07%  | 0.009% |
| 80  | 10.012 | 2772 | 2775 | 2779 | rVB  | 1329   | 931     | 0.06%  | 0.007% |
| 81  | 10.070 | 2787 | 2793 | 2796 | rBV  | 1151   | 1283    | 0.08%  | 0.009% |
| 82  | 10.119 | 2805 | 2808 | 2812 | rVB  | 1311   | 1018    | 0.06%  | 0.007% |
| 83  | 10.218 | 2832 | 2839 | 2849 | rBV3 | 3841   | 5972    | 0.36%  | 0.044% |
| 84  | 10.283 | 2854 | 2859 | 2862 | rBV  | 1098   | 1350    | 0.08%  | 0.010% |
| 85  | 10.427 | 2893 | 2904 | 2930 | rVB  | 462432 | 756033  | 45.82% | 5.537% |
| 86  | 10.559 | 2941 | 2945 | 2948 | rBV  | 1583   | 1224    | 0.07%  | 0.009% |
| 87  | 10.678 | 2977 | 2982 | 2984 | rBV  | 1682   | 1444    | 0.09%  | 0.011% |
| 88  | 10.842 | 3030 | 3033 | 3038 | rVB  | 1512   | 1410    | 0.09%  | 0.010% |
| 89  | 10.932 | 3057 | 3061 | 3067 | rBV  | 2050   | 2366    | 0.14%  | 0.017% |
| 90  | 11.048 | 3094 | 3097 | 3103 | rVB  | 1705   | 1620    | 0.10%  | 0.012% |
| 91  | 11.154 | 3128 | 3130 | 3134 | rVB2 | 1702   | 1038    | 0.06%  | 0.008% |
| 92  | 11.482 | 3218 | 3232 | 3250 | rBV  | 631466 | 1045940 | 63.39% | 7.660% |
| 93  | 11.855 | 3335 | 3348 | 3369 | rBV  | 572214 | 973910  | 59.03% | 7.133% |
| 94  | 12.028 | 3398 | 3402 | 3403 | rBV3 | 1607   | 1304    | 0.08%  | 0.010% |
| 95  | 12.173 | 3444 | 3447 | 3450 | rBV3 | 1146   | 957     | 0.06%  | 0.007% |
| 96  | 12.237 | 3462 | 3467 | 3468 | rBV  | 1401   | 1130    | 0.07%  | 0.008% |
| 97  | 12.331 | 3493 | 3496 | 3498 | rBV  | 1452   | 940     | 0.06%  | 0.007% |
| 98  | 12.958 | 3688 | 3691 | 3694 | rBV  | 1885   | 1585    | 0.10%  | 0.012% |
| 99  | 13.234 | 3775 | 3777 | 3782 | rBV3 | 1227   | 1105    | 0.07%  | 0.008% |
| 100 | 13.289 | 3787 | 3794 | 3798 | rBV2 | 1830   | 2798    | 0.17%  | 0.020% |

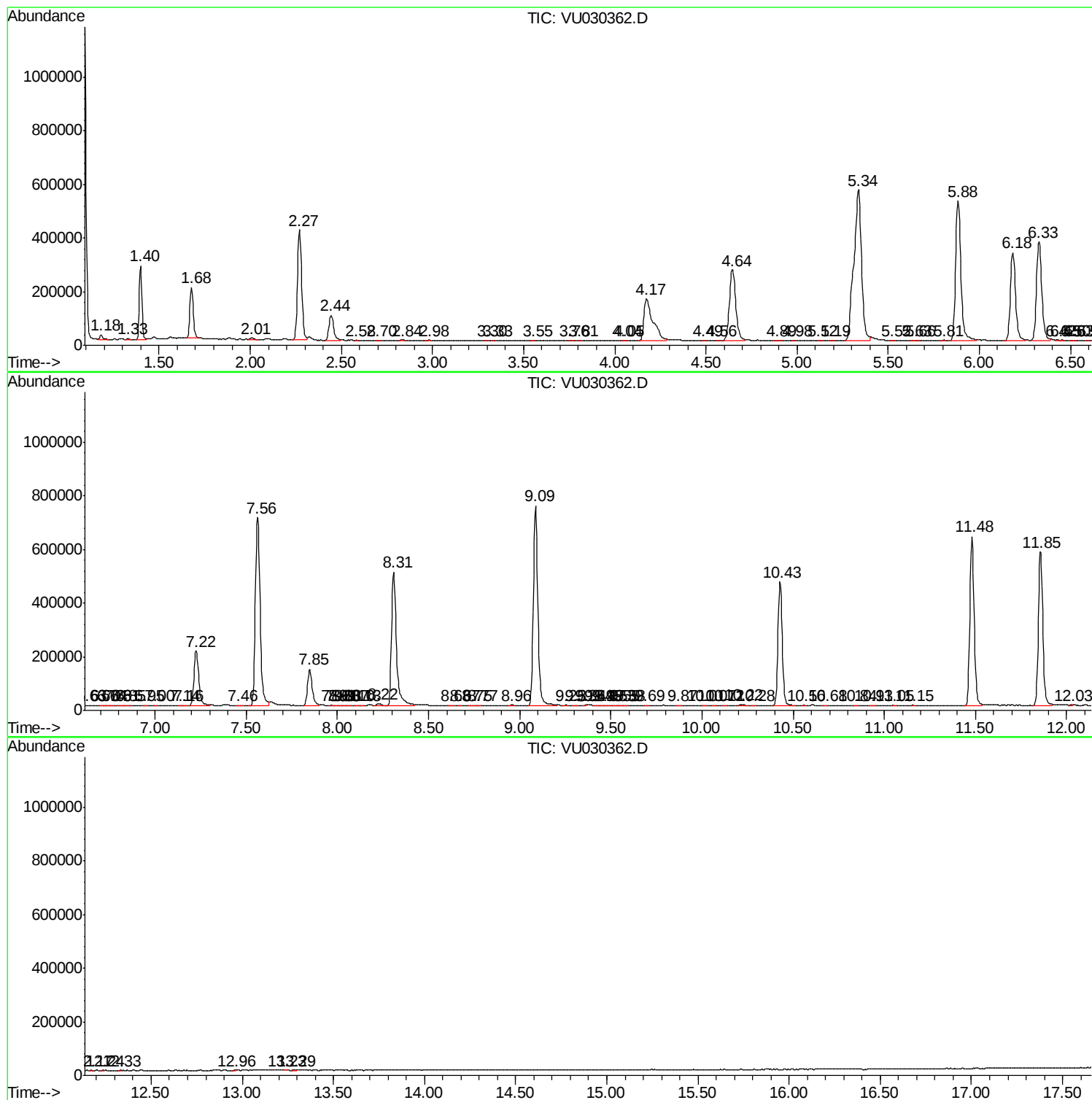
Sum of corrected areas: 13653847

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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



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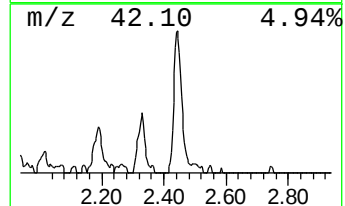
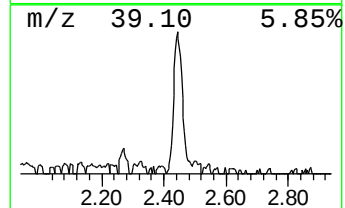
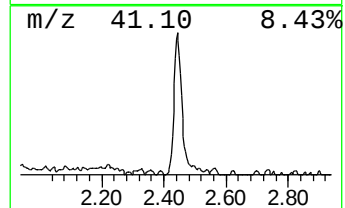
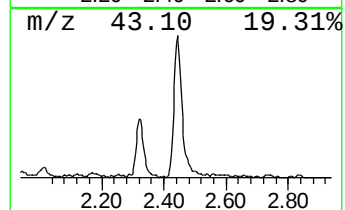
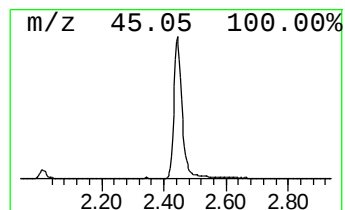
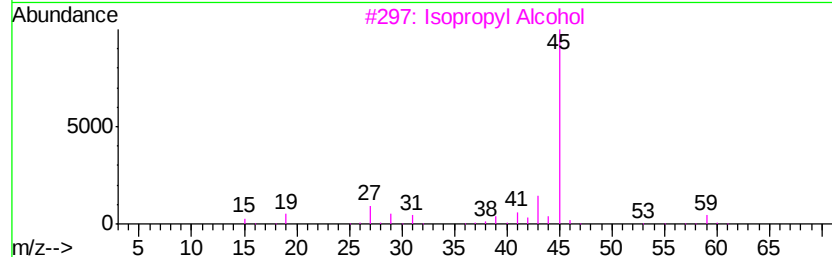
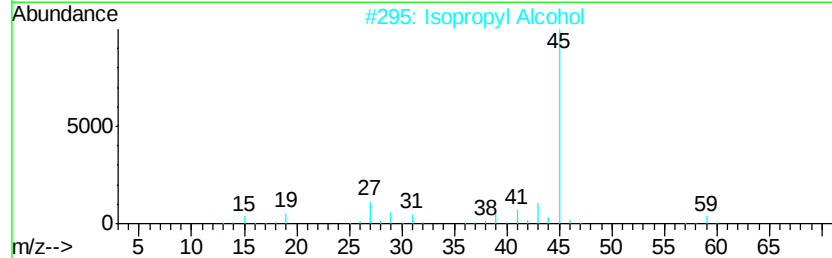
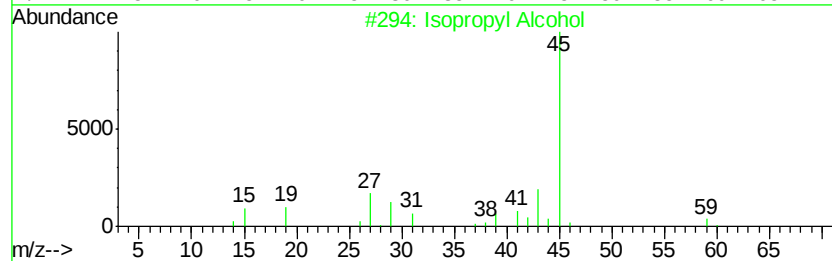
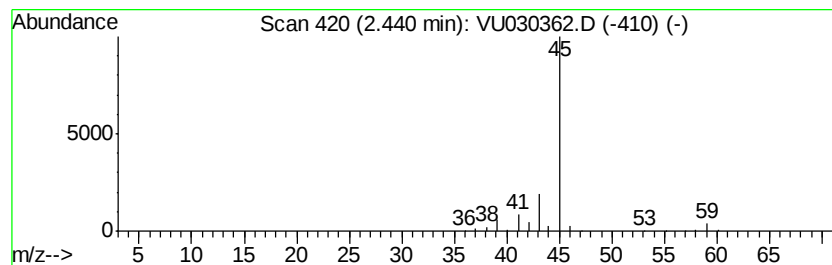
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM032319WMA.M  
Quant Title : VOC Analysis

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 | 7.86 ug/L | 167314 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|---|-------------------|----|---------|-------------|------|
| 1    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 2    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 3    |    |   | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 43   |
| 4    |    |   | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 9    |
| 5    |    |   | 4-Penten-2-ol     | 86 | C5H10O  | 000625-31-0 | 9    |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|-------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                   |      |         |       |          | #                     | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 7.9     | ug/L  | 167314   | 1                     | 5.88 | 1064690 | 50.0 |