

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU051119\  
 Data File : VU031926.D  
 Acq On : 11 May 2019 13:16  
 Operator : JC/SP  
 Sample : K2705-16DL 40X  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 C0B54DL

## 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\SOMULM042719WMA.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          | 38           | rVB3     | 15941          | 17811         | 0.44%           | 0.050%        |
| 2         | 1.396       | 88            | 95          | 107          | rBV      | 532699         | 568440        | 14.04%          | 1.595%        |
| 3         | 1.672       | 173           | 181         | 198          | rVB      | 419197         | 552024        | 13.64%          | 1.549%        |
| 4         | 2.267       | 356           | 366         | 379          | rBV      | 854436         | 1273755       | 31.47%          | 3.575%        |
| 5         | 2.444       | 411           | 421         | 439          | rBV      | 72269          | 133991        | 3.31%           | 0.376%        |
| 6         | 2.685       | 491           | 496         | 498          | rBV4     | 2754           | 2350          | 0.06%           | 0.007%        |
| 7         | 2.830       | 533           | 541         | 550          | rBV8     | 3915           | 5631          | 0.14%           | 0.016%        |
| 8         | 2.981       | 576           | 588         | 604          | rVB5     | 8369           | 18482         | 0.46%           | 0.052%        |
| 9         | 3.280       | 675           | 681         | 682          | rBV3     | 680            | 636           | 0.02%           | 0.002%        |
| 10        | 3.334       | 694           | 698         | 699          | rBV2     | 1242           | 799           | 0.02%           | 0.002%        |
| 11        | 3.450       | 727           | 734         | 738          | rVB6     | 1693           | 2320          | 0.06%           | 0.007%        |
| 12        | 3.473       | 738           | 741         | 743          | rBV2     | 768            | 516           | 0.01%           | 0.001%        |
| 13        | 3.566       | 765           | 770         | 773          | rVB4     | 810            | 619           | 0.02%           | 0.002%        |
| 14        | 3.659       | 795           | 799         | 801          | rVB3     | 956            | 622           | 0.02%           | 0.002%        |
| 15        | 3.682       | 804           | 806         | 812          | rBB4     | 637            | 578           | 0.01%           | 0.002%        |
| 16        | 3.714       | 812           | 816         | 819          | rBV      | 928            | 866           | 0.02%           | 0.002%        |
| 17        | 3.733       | 819           | 822         | 824          | rVB2     | 855            | 517           | 0.01%           | 0.001%        |
| 18        | 3.752       | 824           | 828         | 834          | rBV3     | 812            | 910           | 0.02%           | 0.003%        |
| 19        | 3.862       | 860           | 862         | 867          | rVB2     | 857            | 505           | 0.01%           | 0.001%        |
| 20        | 3.891       | 867           | 871         | 872          | rBV2     | 832            | 610           | 0.02%           | 0.002%        |
| 21        | 3.974       | 891           | 897         | 901          | rBV4     | 773            | 862           | 0.02%           | 0.002%        |
| 22        | 3.997       | 901           | 904         | 909          | rVB3     | 978            | 848           | 0.02%           | 0.002%        |
| 23        | 4.032       | 909           | 915         | 917          | rBV3     | 791            | 849           | 0.02%           | 0.002%        |
| 24        | 4.051       | 917           | 921         | 928          | rVB5     | 966            | 1175          | 0.03%           | 0.003%        |
| 25        | 4.170       | 946           | 958         | 967          | rBV      | 396093         | 957359        | 23.65%          | 2.687%        |
| 26        | 4.553       | 1075          | 1077        | 1080         | rBV3     | 921            | 568           | 0.01%           | 0.002%        |
| 27        | 4.643       | 1088          | 1105        | 1135         | rBV      | 665646         | 1578500       | 39.00%          | 4.430%        |
| 28        | 4.990       | 1206          | 1213        | 1225         | rVB      | 2967           | 5450          | 0.13%           | 0.015%        |
| 29        | 5.106       | 1247          | 1249        | 1252         | rBV3     | 790            | 526           | 0.01%           | 0.001%        |
| 30        | 5.151       | 1261          | 1263        | 1267         | rVB4     | 856            | 482           | 0.01%           | 0.001%        |
| 31        | 5.228       | 1284          | 1287        | 1293         | rVB3     | 1167           | 1016          | 0.03%           | 0.003%        |
| 32        | 5.334       | 1296          | 1320        | 1355         | rBV2     | 1347968        | 4047451       | 100.00%         | 11.359%       |
| 33        | 5.788       | 1459          | 1461        | 1467         | rVB4     | 1362           | 1033          | 0.03%           | 0.003%        |
| 34        | 5.833       | 1473          | 1475        | 1477         | rBV2     | 1116           | 709           | 0.02%           | 0.002%        |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |         |         |        |        |
|----|-------|------|------|------|------|---------|---------|--------|--------|
| 35 | 5.881 | 1477 | 1490 | 1528 | rBV  | 1218464 | 2491516 | 61.56% | 6.993% |
| 36 | 6.180 | 1569 | 1583 | 1609 | rBV  | 1435368 | 2843543 | 70.26% | 7.981% |
| 37 | 6.325 | 1616 | 1628 | 1658 | rVB  | 917981  | 1862542 | 46.02% | 5.227% |
| 38 | 6.582 | 1706 | 1708 | 1710 | rBV3 | 1238    | 664     | 0.02%  | 0.002% |
| 39 | 6.662 | 1731 | 1733 | 1736 | rBV3 | 927     | 603     | 0.01%  | 0.002% |
| 40 | 6.746 | 1756 | 1759 | 1763 | rVB4 | 2194    | 1611    | 0.04%  | 0.005% |
| 41 | 6.772 | 1763 | 1767 | 1769 | rBV4 | 1670    | 1353    | 0.03%  | 0.004% |
| 42 | 6.823 | 1780 | 1783 | 1786 | rVB4 | 1101    | 621     | 0.02%  | 0.002% |
| 43 | 6.855 | 1790 | 1793 | 1797 | rBV3 | 813     | 807     | 0.02%  | 0.002% |
| 44 | 6.903 | 1806 | 1808 | 1815 | rVB7 | 1466    | 1375    | 0.03%  | 0.004% |
| 45 | 6.977 | 1828 | 1831 | 1833 | rVV4 | 1049    | 539     | 0.01%  | 0.002% |
| 46 | 7.032 | 1843 | 1848 | 1851 | rVB  | 1011    | 792     | 0.02%  | 0.002% |
| 47 | 7.051 | 1851 | 1854 | 1860 | rVB4 | 832     | 631     | 0.02%  | 0.002% |
| 48 | 7.084 | 1860 | 1864 | 1868 | rBV3 | 867     | 661     | 0.02%  | 0.002% |
| 49 | 7.103 | 1868 | 1870 | 1872 | rVB  | 1062    | 494     | 0.01%  | 0.001% |
| 50 | 7.125 | 1872 | 1877 | 1883 | rVB5 | 1282    | 1157    | 0.03%  | 0.003% |
| 51 | 7.164 | 1883 | 1889 | 1891 | rBV2 | 1087    | 838     | 0.02%  | 0.002% |
| 52 | 7.225 | 1894 | 1908 | 1930 | rBV  | 472000  | 858481  | 21.21% | 2.409% |
| 53 | 7.402 | 1961 | 1963 | 1964 | rBV2 | 1390    | 586     | 0.01%  | 0.002% |
| 54 | 7.559 | 1998 | 2012 | 2063 | rBV  | 1602008 | 3043951 | 75.21% | 8.543% |
| 55 | 7.846 | 2090 | 2101 | 2130 | rBV  | 319893  | 582676  | 14.40% | 1.635% |
| 56 | 8.119 | 2184 | 2186 | 2192 | rBV5 | 1340    | 966     | 0.02%  | 0.003% |
| 57 | 8.170 | 2199 | 2202 | 2205 | rVB3 | 1387    | 865     | 0.02%  | 0.002% |
| 58 | 8.222 | 2205 | 2218 | 2235 | rBV  | 1199706 | 2113455 | 52.22% | 5.932% |
| 59 | 8.309 | 2235 | 2245 | 2296 | rVB  | 1234903 | 2478758 | 61.24% | 6.957% |
| 60 | 8.595 | 2331 | 2334 | 2337 | rBV3 | 1314    | 958     | 0.02%  | 0.003% |
| 61 | 8.784 | 2391 | 2393 | 2397 | rVB4 | 1478    | 1052    | 0.03%  | 0.003% |
| 62 | 8.919 | 2429 | 2435 | 2437 | rVB4 | 1174    | 1229    | 0.03%  | 0.003% |
| 63 | 8.945 | 2441 | 2443 | 2447 | rVB3 | 1075    | 596     | 0.01%  | 0.002% |
| 64 | 8.971 | 2448 | 2451 | 2456 | rBV4 | 1252    | 1003    | 0.02%  | 0.003% |
| 65 | 9.013 | 2460 | 2464 | 2465 | rBV2 | 724     | 569     | 0.01%  | 0.002% |
| 66 | 9.087 | 2473 | 2487 | 2530 | rBV  | 1811452 | 3187747 | 78.76% | 8.947% |
| 67 | 9.357 | 2569 | 2571 | 2576 | rBV3 | 1078    | 826     | 0.02%  | 0.002% |
| 68 | 9.421 | 2588 | 2591 | 2594 | rBV4 | 1691    | 1255    | 0.03%  | 0.004% |
| 69 | 9.460 | 2601 | 2603 | 2606 | rBV3 | 1021    | 546     | 0.01%  | 0.002% |
| 70 | 9.495 | 2610 | 2614 | 2617 | rVB3 | 1563    | 1133    | 0.03%  | 0.003% |
| 71 | 9.524 | 2617 | 2623 | 2626 | rBV6 | 935     | 1099    | 0.03%  | 0.003% |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |         |         |        |        |
|-----|--------|------|------|------|------|---------|---------|--------|--------|
| 72  | 9.649  | 2657 | 2662 | 2665 | rBV6 | 979     | 977     | 0.02%  | 0.003% |
| 73  | 9.727  | 2682 | 2686 | 2689 | rBV2 | 1297    | 1257    | 0.03%  | 0.004% |
| 74  | 9.775  | 2698 | 2701 | 2705 | rBV2 | 1605    | 1285    | 0.03%  | 0.004% |
| 75  | 9.849  | 2721 | 2724 | 2727 | rBV3 | 1300    | 1158    | 0.03%  | 0.003% |
| 76  | 9.910  | 2735 | 2743 | 2745 | rBV4 | 1379    | 1831    | 0.05%  | 0.005% |
| 77  | 9.974  | 2759 | 2763 | 2764 | rBV2 | 958     | 634     | 0.02%  | 0.002% |
| 78  | 10.080 | 2791 | 2796 | 2797 | rBV4 | 897     | 726     | 0.02%  | 0.002% |
| 79  | 10.141 | 2811 | 2815 | 2818 | rBV3 | 1058    | 911     | 0.02%  | 0.003% |
| 80  | 10.212 | 2832 | 2837 | 2839 | rBV2 | 818     | 747     | 0.02%  | 0.002% |
| 81  | 10.225 | 2839 | 2841 | 2847 | rVB2 | 1258    | 991     | 0.02%  | 0.003% |
| 82  | 10.257 | 2847 | 2851 | 2854 | rBV4 | 1212    | 1130    | 0.03%  | 0.003% |
| 83  | 10.289 | 2859 | 2861 | 2864 | rVV3 | 819     | 501     | 0.01%  | 0.001% |
| 84  | 10.354 | 2879 | 2881 | 2883 | rBV2 | 898     | 492     | 0.01%  | 0.001% |
| 85  | 10.427 | 2891 | 2904 | 2927 | rBV  | 1276821 | 2089838 | 51.63% | 5.865% |
| 86  | 10.665 | 2975 | 2978 | 2981 | rBV5 | 1275    | 896     | 0.02%  | 0.003% |
| 87  | 10.681 | 2981 | 2983 | 2988 | rVB3 | 874     | 487     | 0.01%  | 0.001% |
| 88  | 10.820 | 3023 | 3026 | 3030 | rVB4 | 1259    | 793     | 0.02%  | 0.002% |
| 89  | 10.878 | 3041 | 3044 | 3047 | rBV3 | 1324    | 1210    | 0.03%  | 0.003% |
| 90  | 10.939 | 3061 | 3063 | 3065 | rBV3 | 1144    | 631     | 0.02%  | 0.002% |
| 91  | 11.080 | 3104 | 3107 | 3115 | rVB7 | 1701    | 1573    | 0.04%  | 0.004% |
| 92  | 11.344 | 3185 | 3189 | 3191 | rBV2 | 1052    | 792     | 0.02%  | 0.002% |
| 93  | 11.392 | 3199 | 3204 | 3206 | rBV3 | 735     | 719     | 0.02%  | 0.002% |
| 94  | 11.427 | 3214 | 3215 | 3219 | rVB2 | 1411    | 535     | 0.01%  | 0.002% |
| 95  | 11.479 | 3219 | 3231 | 3264 | rBV  | 1449194 | 2412440 | 59.60% | 6.771% |
| 96  | 11.855 | 3336 | 3348 | 3369 | rBV  | 1439468 | 2436138 | 60.19% | 6.837% |
| 97  | 12.900 | 3667 | 3673 | 3677 | rBV5 | 2351    | 2897    | 0.07%  | 0.008% |
| 98  | 13.241 | 3776 | 3779 | 3782 | rBV3 | 1478    | 1161    | 0.03%  | 0.003% |
| 99  | 13.932 | 3992 | 3994 | 3999 | rBV4 | 1186    | 1129    | 0.03%  | 0.003% |
| 100 | 14.138 | 4055 | 4058 | 4059 | rBV  | 1027    | 620     | 0.02%  | 0.002% |

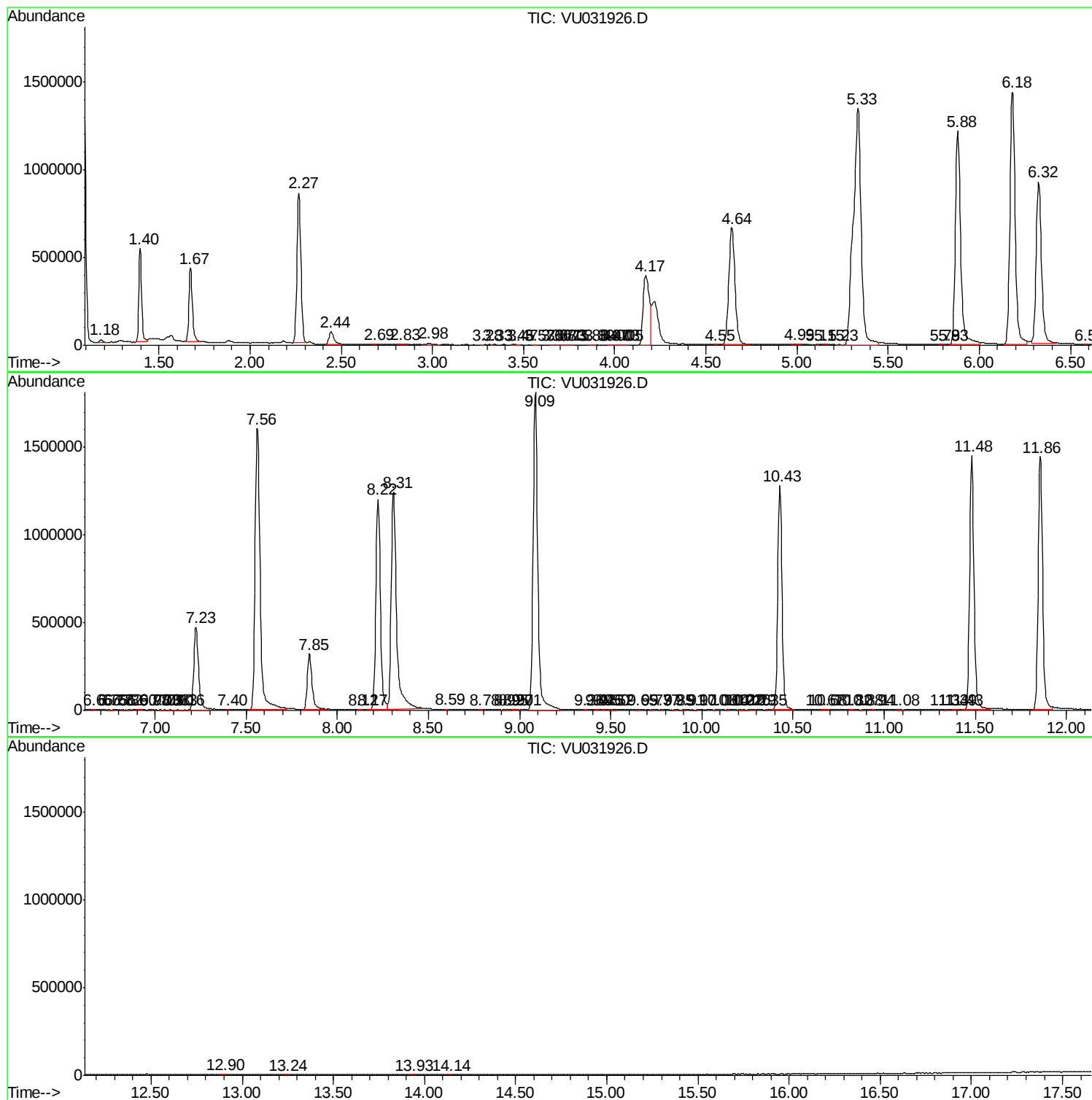
Sum of corrected areas: 35630807

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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



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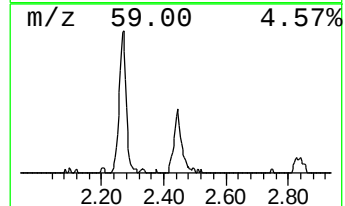
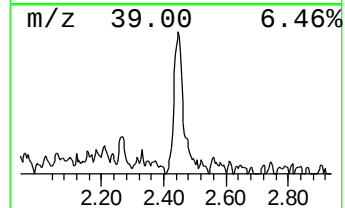
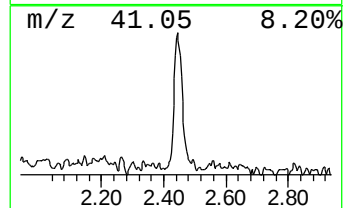
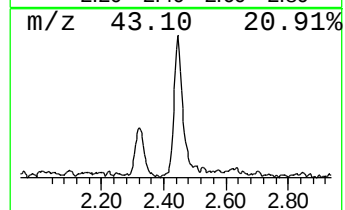
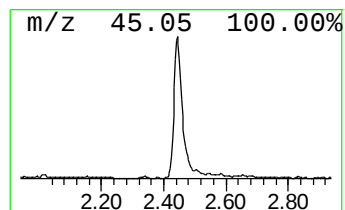
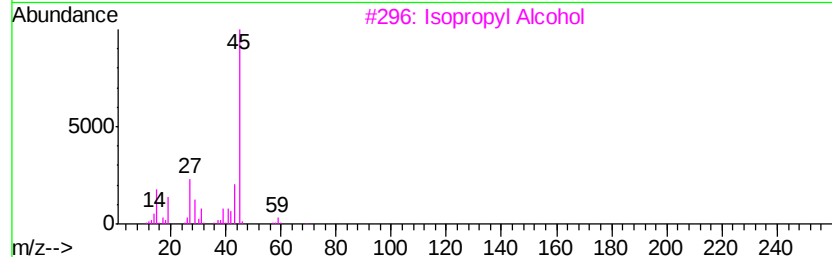
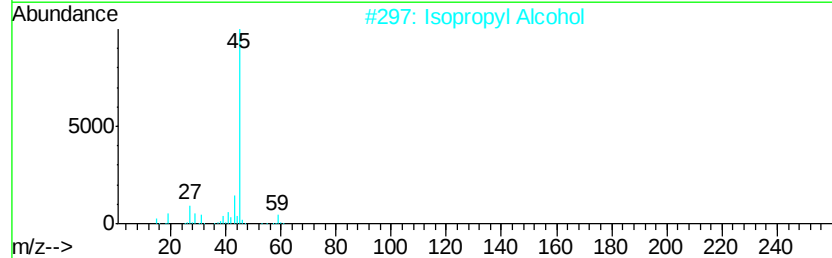
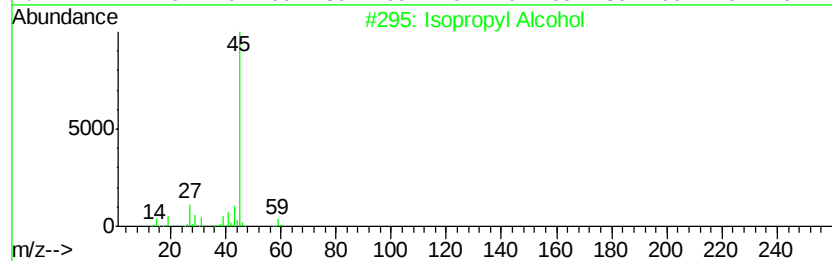
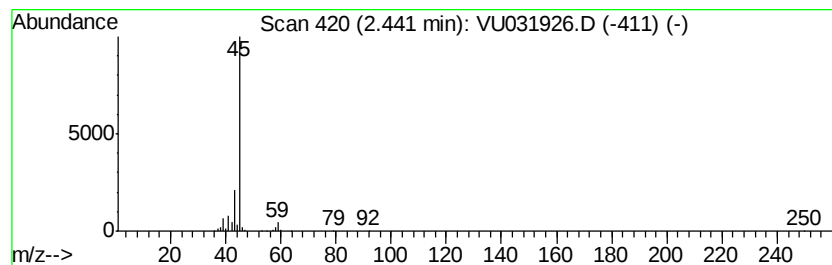
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM042719WMA.M  
Quant Title : VOC Analysis

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    | 2.69 ug/L          | 133991       | 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         | 86        |
| 3       | Isopropyl Alcohol  | 60 C3H8O     | 000067-63-0         | 78        |
| 4       | Isopropyl Alcohol  | 60 C3H8O     | 000067-63-0         | 78        |
| 5       | Propane, 2-ethoxy- | 88 C5H12O    | 000625-54-7         | 64        |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | ---Internal Standard--- |      |         |      |
|-------------------|------|---------|-------|----------|-------------------------|------|---------|------|
|                   |      |         |       |          | #                       | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 2.7     | ug/L  | 133991   | 1                       | 5.88 | 2491520 | 50.0 |