

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU041119\  
 Data File : VU031110.D  
 Acq On : 12 Apr 2019 07:29  
 Operator : JC/SP  
 Sample : K2341-10  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 102 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 DB728

## 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       | 23            | 28          | 37           | rVB      | 22044          | 22294         | 1.18%           | 0.139%        |
| 2         | 1.395       | 88            | 95          | 110          | rBV      | 251831         | 263350        | 13.94%          | 1.648%        |
| 3         | 1.469       | 113           | 118         | 128          | rVB      | 13977          | 18060         | 0.96%           | 0.113%        |
| 4         | 1.675       | 175           | 182         | 196          | rVB      | 195231         | 256578        | 13.58%          | 1.605%        |
| 5         | 2.267       | 355           | 366         | 377          | rBV      | 380060         | 573619        | 30.37%          | 3.589%        |
| 6         | 2.437       | 409           | 419         | 443          | rBV2     | 57989          | 108691        | 5.75%           | 0.680%        |
| 7         | 2.698       | 496           | 500         | 504          | rBV5     | 1237           | 1099          | 0.06%           | 0.007%        |
| 8         | 2.836       | 532           | 543         | 557          | rVB4     | 6222           | 14592         | 0.77%           | 0.091%        |
| 9         | 2.945       | 573           | 577         | 579          | rBV4     | 682            | 583           | 0.03%           | 0.004%        |
| 10        | 2.977       | 580           | 587         | 588          | rBV3     | 1875           | 1701          | 0.09%           | 0.011%        |
| 11        | 3.039       | 601           | 606         | 609          | rVB2     | 1011           | 885           | 0.05%           | 0.006%        |
| 12        | 3.061       | 609           | 613         | 615          | rBV2     | 603            | 485           | 0.03%           | 0.003%        |
| 13        | 3.122       | 629           | 632         | 636          | rVB2     | 975            | 638           | 0.03%           | 0.004%        |
| 14        | 3.161       | 641           | 644         | 646          | rBV2     | 961            | 646           | 0.03%           | 0.004%        |
| 15        | 3.177       | 646           | 649         | 651          | rBV3     | 770            | 544           | 0.03%           | 0.003%        |
| 16        | 3.241       | 665           | 669         | 671          | rBV2     | 1106           | 659           | 0.03%           | 0.004%        |
| 17        | 3.334       | 694           | 698         | 702          | rBV4     | 1043           | 911           | 0.05%           | 0.006%        |
| 18        | 3.392       | 711           | 716         | 718          | rVB3     | 944            | 875           | 0.05%           | 0.005%        |
| 19        | 3.428       | 721           | 727         | 728          | rBV2     | 614            | 536           | 0.03%           | 0.003%        |
| 20        | 3.466       | 734           | 739         | 740          | rBV      | 698            | 549           | 0.03%           | 0.003%        |
| 21        | 3.547       | 760           | 764         | 767          | rVB      | 809            | 591           | 0.03%           | 0.004%        |
| 22        | 3.566       | 767           | 770         | 773          | rBV3     | 764            | 573           | 0.03%           | 0.004%        |
| 23        | 3.656       | 794           | 798         | 802          | rVB3     | 891            | 688           | 0.04%           | 0.004%        |
| 24        | 4.016       | 907           | 910         | 912          | rVV2     | 793            | 553           | 0.03%           | 0.003%        |
| 25        | 4.042       | 915           | 918         | 921          | rBV2     | 838            | 700           | 0.04%           | 0.004%        |
| 26        | 4.096       | 933           | 935         | 938          | rBV2     | 755            | 524           | 0.03%           | 0.003%        |
| 27        | 4.170       | 945           | 958         | 967          | rBV      | 212827         | 522217        | 27.65%          | 3.267%        |
| 28        | 4.643       | 1087          | 1105        | 1134         | rBV      | 315662         | 792498        | 41.96%          | 4.958%        |
| 29        | 4.778       | 1141          | 1147        | 1151         | rVB6     | 1133           | 1148          | 0.06%           | 0.007%        |
| 30        | 4.926       | 1190          | 1193        | 1195         | rVB3     | 1388           | 892           | 0.05%           | 0.006%        |
| 31        | 4.945       | 1195          | 1199        | 1203         | rBV4     | 1120           | 1141          | 0.06%           | 0.007%        |
| 32        | 5.006       | 1214          | 1218        | 1222         | rVB4     | 1251           | 1190          | 0.06%           | 0.007%        |
| 33        | 5.045       | 1226          | 1230        | 1233         | rBV2     | 1128           | 900           | 0.05%           | 0.006%        |
| 34        | 5.077       | 1236          | 1240        | 1243         | rVV2     | 728            | 562           | 0.03%           | 0.004%        |

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 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

|    |       |      |      |      |      |        |         |         |         |
|----|-------|------|------|------|------|--------|---------|---------|---------|
| 35 | 5.122 | 1250 | 1254 | 1255 | rBV3 | 864    | 540     | 0.03%   | 0.003%  |
| 36 | 5.186 | 1268 | 1274 | 1277 | rBV3 | 573    | 531     | 0.03%   | 0.003%  |
| 37 | 5.334 | 1296 | 1320 | 1346 | rBV3 | 624639 | 1888823 | 100.00% | 11.817% |
| 38 | 5.688 | 1426 | 1430 | 1433 | rBV2 | 705    | 626     | 0.03%   | 0.004%  |
| 39 | 5.701 | 1433 | 1434 | 1439 | rVB4 | 1299   | 631     | 0.03%   | 0.004%  |
| 40 | 5.755 | 1448 | 1451 | 1457 | rBV5 | 1119   | 1304    | 0.07%   | 0.008%  |
| 41 | 5.791 | 1460 | 1462 | 1470 | rVB5 | 1307   | 1243    | 0.07%   | 0.008%  |
| 42 | 5.881 | 1476 | 1490 | 1515 | rBV  | 631018 | 1260441 | 66.73%  | 7.886%  |
| 43 | 6.170 | 1572 | 1580 | 1581 | rBV7 | 3779   | 4198    | 0.22%   | 0.026%  |
| 44 | 6.325 | 1612 | 1628 | 1652 | rBV2 | 438199 | 884250  | 46.81%  | 5.532%  |
| 45 | 6.550 | 1692 | 1698 | 1704 | rBV7 | 4319   | 6613    | 0.35%   | 0.041%  |
| 46 | 6.755 | 1750 | 1762 | 1773 | rBV4 | 7467   | 14499   | 0.77%   | 0.091%  |
| 47 | 6.884 | 1800 | 1802 | 1805 | rBV2 | 1078   | 693     | 0.04%   | 0.004%  |
| 48 | 6.932 | 1813 | 1817 | 1819 | rBV4 | 664    | 476     | 0.03%   | 0.003%  |
| 49 | 7.035 | 1845 | 1849 | 1851 | rBV  | 696    | 520     | 0.03%   | 0.003%  |
| 50 | 7.051 | 1851 | 1854 | 1858 | rVB3 | 618    | 468     | 0.02%   | 0.003%  |
| 51 | 7.144 | 1881 | 1883 | 1888 | rVB2 | 689    | 578     | 0.03%   | 0.004%  |
| 52 | 7.225 | 1894 | 1908 | 1929 | rBV  | 215951 | 402177  | 21.29%  | 2.516%  |
| 53 | 7.386 | 1951 | 1958 | 1964 | rBV7 | 3398   | 4240    | 0.22%   | 0.027%  |
| 54 | 7.463 | 1979 | 1982 | 1986 | rBV4 | 872    | 807     | 0.04%   | 0.005%  |
| 55 | 7.482 | 1986 | 1988 | 1993 | rVB4 | 1324   | 1071    | 0.06%   | 0.007%  |
| 56 | 7.511 | 1993 | 1997 | 1999 | rBV2 | 660    | 472     | 0.02%   | 0.003%  |
| 57 | 7.562 | 1999 | 2013 | 2026 | rBV  | 758305 | 1353029 | 71.63%  | 8.465%  |
| 58 | 7.633 | 2027 | 2035 | 2053 | rVB  | 168482 | 315444  | 16.70%  | 1.973%  |
| 59 | 7.849 | 2091 | 2102 | 2123 | rBV  | 145749 | 270702  | 14.33%  | 1.694%  |
| 60 | 8.009 | 2148 | 2152 | 2155 | rBV2 | 912    | 704     | 0.04%   | 0.004%  |
| 61 | 8.170 | 2199 | 2202 | 2206 | rBV2 | 1198   | 670     | 0.04%   | 0.004%  |
| 62 | 8.225 | 2206 | 2219 | 2234 | rBV2 | 191231 | 336025  | 17.79%  | 2.102%  |
| 63 | 8.308 | 2234 | 2245 | 2282 | rBV  | 585599 | 1172575 | 62.08%  | 7.336%  |
| 64 | 8.466 | 2287 | 2294 | 2313 | rVB4 | 37910  | 75565   | 4.00%   | 0.473%  |
| 65 | 8.733 | 2371 | 2377 | 2381 | rVB5 | 1403   | 1331    | 0.07%   | 0.008%  |
| 66 | 8.810 | 2399 | 2401 | 2404 | rVB  | 1222   | 673     | 0.04%   | 0.004%  |
| 67 | 8.829 | 2404 | 2407 | 2409 | rBV3 | 1104   | 601     | 0.03%   | 0.004%  |
| 68 | 9.086 | 2475 | 2487 | 2528 | rBV  | 913948 | 1598981 | 84.65%  | 10.003% |
| 69 | 9.292 | 2548 | 2551 | 2557 | rVB4 | 1579   | 1294    | 0.07%   | 0.008%  |
| 70 | 9.382 | 2574 | 2579 | 2580 | rBV5 | 1340   | 1052    | 0.06%   | 0.007%  |
| 71 | 9.456 | 2597 | 2602 | 2604 | rBV3 | 867    | 665     | 0.04%   | 0.004%  |

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## Integration Parameters: LSCINT.P

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

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  | 9.556  | 2628 | 2633 | 2636 | rBV5  | 651    | 610     | 0.03%  | 0.004% |
| 73  | 9.791  | 2702 | 2706 | 2713 | rBV4  | 699    | 755     | 0.04%  | 0.005% |
| 74  | 9.922  | 2744 | 2747 | 2750 | rVB3  | 987    | 644     | 0.03%  | 0.004% |
| 75  | 9.948  | 2750 | 2755 | 2758 | rBV2  | 995    | 1123    | 0.06%  | 0.007% |
| 76  | 10.035 | 2771 | 2782 | 2789 | rBV10 | 5729   | 10746   | 0.57%  | 0.067% |
| 77  | 10.112 | 2800 | 2806 | 2810 | rBV7  | 778    | 869     | 0.05%  | 0.005% |
| 78  | 10.318 | 2867 | 2870 | 2873 | rBV2  | 930    | 707     | 0.04%  | 0.004% |
| 79  | 10.427 | 2891 | 2904 | 2925 | rBV   | 622035 | 1018543 | 53.92% | 6.372% |
| 80  | 10.591 | 2951 | 2955 | 2956 | rBV   | 1053   | 687     | 0.04%  | 0.004% |
| 81  | 10.675 | 2977 | 2981 | 2984 | rBV2  | 664    | 555     | 0.03%  | 0.003% |
| 82  | 10.974 | 3070 | 3074 | 3080 | rVV3  | 1399   | 1353    | 0.07%  | 0.008% |
| 83  | 11.083 | 3106 | 3108 | 3112 | rVB3  | 725    | 507     | 0.03%  | 0.003% |
| 84  | 11.373 | 3189 | 3198 | 3208 | rBV7  | 13632  | 25202   | 1.33%  | 0.158% |
| 85  | 11.479 | 3219 | 3231 | 3260 | rBV   | 849730 | 1409463 | 74.62% | 8.818% |
| 86  | 11.855 | 3336 | 3348 | 3373 | rBV   | 770170 | 1302654 | 68.97% | 8.150% |
| 87  | 12.016 | 3396 | 3398 | 3401 | rVB4  | 2684   | 1269    | 0.07%  | 0.008% |
| 88  | 12.270 | 3473 | 3477 | 3481 | rBV4  | 846    | 1095    | 0.06%  | 0.007% |
| 89  | 12.385 | 3509 | 3513 | 3514 | rBV3  | 762    | 576     | 0.03%  | 0.004% |
| 90  | 12.582 | 3570 | 3574 | 3576 | rBV5  | 2378   | 1849    | 0.10%  | 0.012% |
| 91  | 12.794 | 3638 | 3640 | 3643 | rBV3  | 827    | 576     | 0.03%  | 0.004% |
| 92  | 12.916 | 3676 | 3678 | 3682 | rVB2  | 1498   | 716     | 0.04%  | 0.004% |
| 93  | 12.983 | 3696 | 3699 | 3700 | rBV2  | 799    | 467     | 0.02%  | 0.003% |
| 94  | 13.540 | 3870 | 3872 | 3876 | rVB3  | 1139   | 657     | 0.03%  | 0.004% |
| 95  | 13.614 | 3893 | 3895 | 3900 | rVB3  | 1288   | 927     | 0.05%  | 0.006% |
| 96  | 13.832 | 3960 | 3963 | 3965 | rBV3  | 1015   | 613     | 0.03%  | 0.004% |
| 97  | 13.871 | 3973 | 3975 | 3979 | rBV2  | 1139   | 626     | 0.03%  | 0.004% |
| 98  | 13.964 | 4002 | 4004 | 4009 | rVB5  | 1436   | 885     | 0.05%  | 0.006% |
| 99  | 15.382 | 4442 | 4445 | 4449 | rBV2  | 1966   | 1692    | 0.09%  | 0.011% |
| 100 | 15.630 | 4519 | 4522 | 4527 | rBV4  | 1822   | 1867    | 0.10%  | 0.012% |

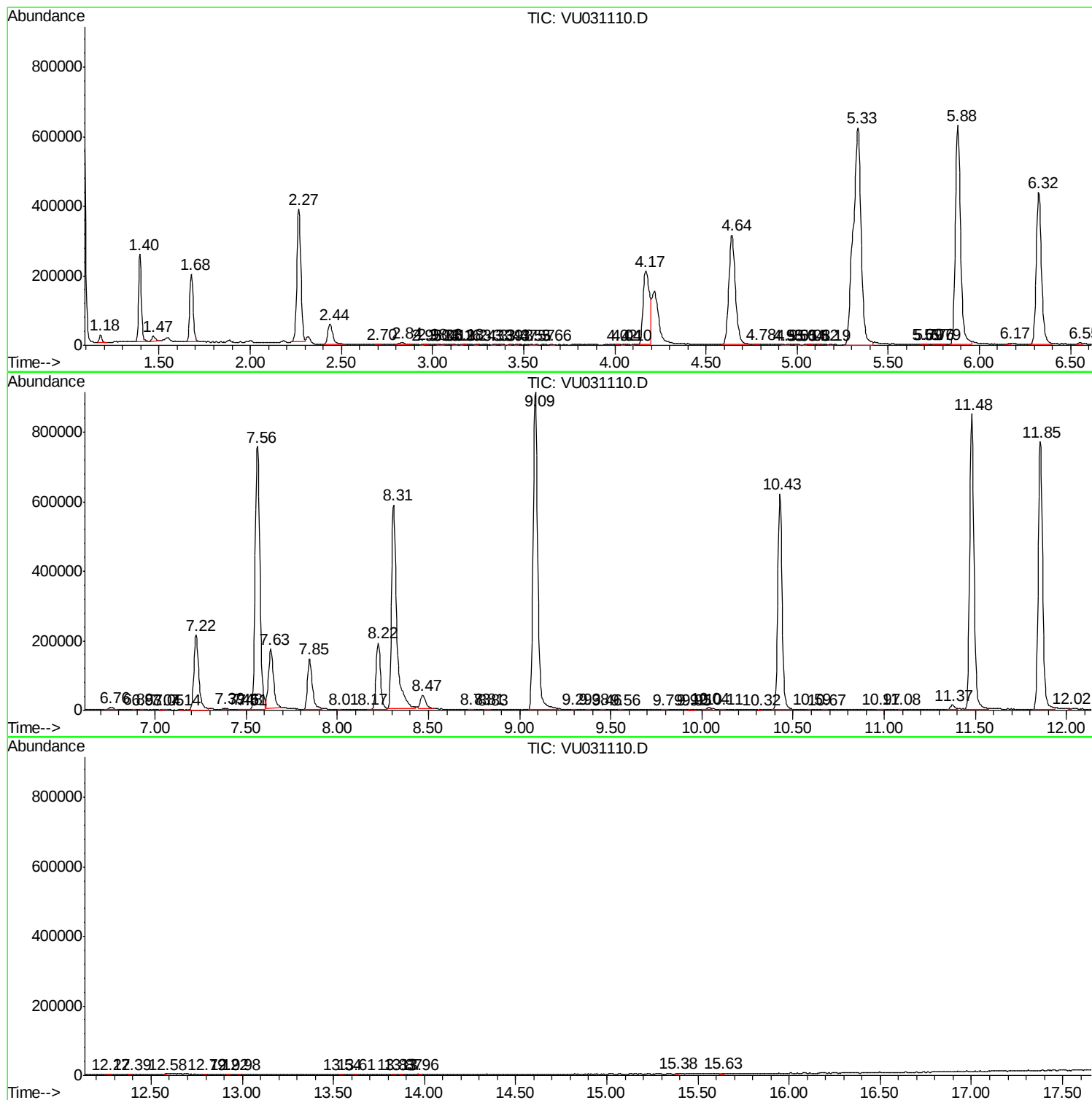
Sum of corrected areas: 15984217

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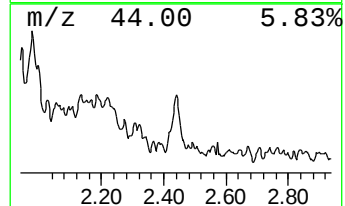
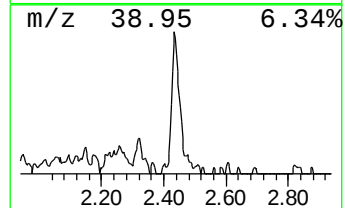
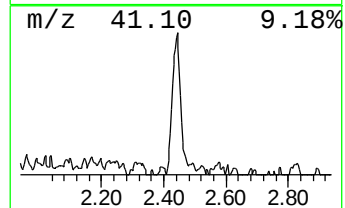
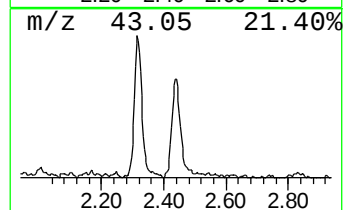
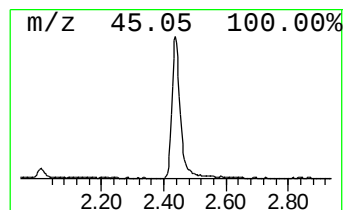
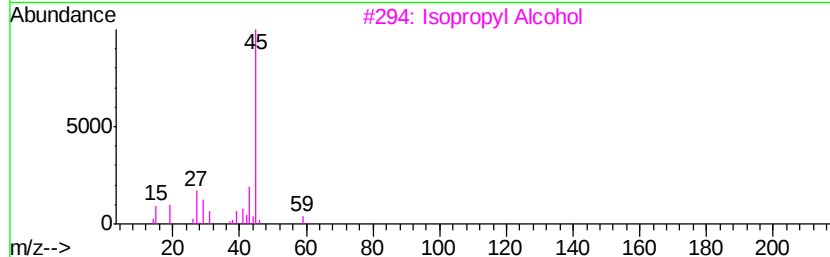
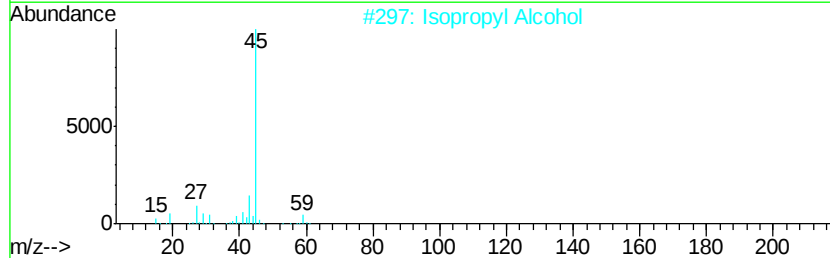
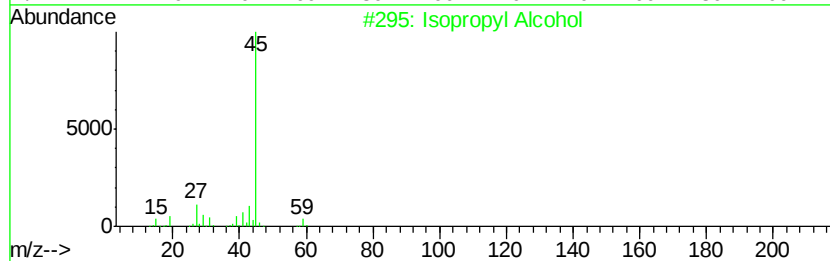
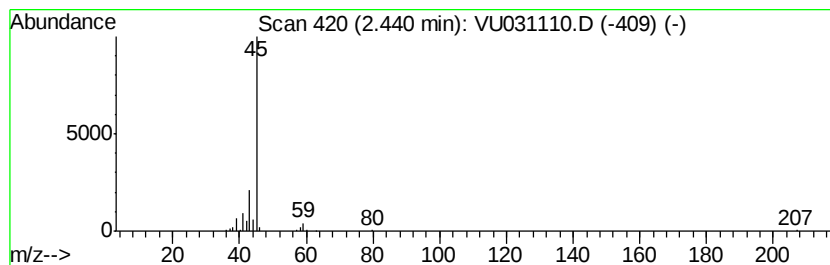
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.44 | 4.31 ug/L | 108691 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | 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 | 72   |
| 5    |    | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 40   |



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Quant Title : VOC Analysis

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

| TIC Top Hit name  | RT   | EstConc | Units | Response | ---Internal Standard--- |      |         |      |
|-------------------|------|---------|-------|----------|-------------------------|------|---------|------|
|                   |      |         |       |          | #                       | RT   | Resp    | Conc |
| Isopropyl Alcohol | 2.44 | 4.3     | ug/L  | 108691   | 1                       | 5.88 | 1260440 | 50.0 |