

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071818\  
 Data File : VU025505.D  
 Acq On : 18 Jul 2018 18:44  
 Operator : MD/SY  
 Sample : J4024-16  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 23 Sample Multiplier: 1

## 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\SOMULM071718WMA.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         | 0.625       | 9             | 11          | 14           | rBV3     | 270            | 231           | 0.02%           | 0.003%        |
| 2         | 0.661       | 20            | 22          | 25           | rVB      | 300            | 157           | 0.02%           | 0.002%        |
| 3         | 0.690       | 25            | 31          | 34           | rBV2     | 425            | 436           | 0.04%           | 0.005%        |
| 4         | 0.770       | 50            | 56          | 62           | rBV3     | 570            | 603           | 0.06%           | 0.007%        |
| 5         | 0.796       | 62            | 64          | 66           | rVB2     | 266            | 133           | 0.01%           | 0.002%        |
| 6         | 0.812       | 66            | 69          | 70           | rBV2     | 365            | 211           | 0.02%           | 0.002%        |
| 7         | 0.867       | 84            | 86          | 87           | rBV      | 279            | 98            | 0.01%           | 0.001%        |
| 8         | 0.905       | 93            | 98          | 100          | rBV2     | 390            | 276           | 0.03%           | 0.003%        |
| 9         | 0.924       | 100           | 104         | 105          | rBV3     | 324            | 231           | 0.02%           | 0.003%        |
| 10        | 0.960       | 112           | 115         | 118          | rVB3     | 283            | 167           | 0.02%           | 0.002%        |
| 11        | 0.986       | 118           | 123         | 125          | rBV2     | 590            | 449           | 0.04%           | 0.005%        |
| 12        | 1.018       | 130           | 133         | 135          | rBV2     | 404            | 229           | 0.02%           | 0.003%        |
| 13        | 1.088       | 135           | 155         | 175          | rBV      | 517332         | 587997        | 58.57%          | 6.753%        |
| 14        | 1.400       | 246           | 252         | 262          | rBV      | 92317          | 95562         | 9.52%           | 1.098%        |
| 15        | 1.683       | 334           | 340         | 356          | rVB      | 85485          | 105918        | 10.55%          | 1.216%        |
| 16        | 2.275       | 515           | 524         | 536          | rVB      | 189671         | 287318        | 28.62%          | 3.300%        |
| 17        | 2.442       | 568           | 576         | 596          | rVB      | 36079          | 62399         | 6.22%           | 0.717%        |
| 18        | 2.764       | 673           | 676         | 681          | rBV3     | 467            | 533           | 0.05%           | 0.006%        |
| 19        | 2.944       | 730           | 732         | 735          | rVB      | 370            | 140           | 0.01%           | 0.002%        |
| 20        | 3.088       | 774           | 777         | 780          | rBV2     | 385            | 275           | 0.03%           | 0.003%        |
| 21        | 3.259       | 827           | 830         | 836          | rBV3     | 384            | 307           | 0.03%           | 0.004%        |
| 22        | 3.284       | 836           | 838         | 843          | rVB2     | 407            | 248           | 0.02%           | 0.003%        |
| 23        | 3.310       | 843           | 846         | 848          | rVB2     | 331            | 172           | 0.02%           | 0.002%        |
| 24        | 3.333       | 848           | 853         | 857          | rBV2     | 215            | 233           | 0.02%           | 0.003%        |
| 25        | 3.355       | 857           | 860         | 863          | rBV3     | 387            | 210           | 0.02%           | 0.002%        |
| 26        | 3.420       | 878           | 880         | 883          | rBV      | 418            | 230           | 0.02%           | 0.003%        |
| 27        | 3.538       | 914           | 917         | 919          | rBV2     | 415            | 225           | 0.02%           | 0.003%        |
| 28        | 3.683       | 958           | 962         | 964          | rBV      | 515            | 371           | 0.04%           | 0.004%        |
| 29        | 3.719       | 970           | 973         | 976          | rBV2     | 321            | 264           | 0.03%           | 0.003%        |
| 30        | 3.751       | 981           | 983         | 986          | rVB2     | 386            | 171           | 0.02%           | 0.002%        |
| 31        | 3.796       | 992           | 997         | 1001         | rBV3     | 475            | 462           | 0.05%           | 0.005%        |
| 32        | 3.863       | 1016          | 1018        | 1022         | rBV3     | 496            | 280           | 0.03%           | 0.003%        |
| 33        | 3.895       | 1026          | 1028        | 1029         | rBV      | 258            | 120           | 0.01%           | 0.001%        |
| 34        | 4.021       | 1064          | 1067        | 1069         | rVB      | 335            | 172           | 0.02%           | 0.002%        |

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 Title : VOC Analysis

|    |       |      |      |      |      |        |         |         |         |
|----|-------|------|------|------|------|--------|---------|---------|---------|
| 35 | 4.034 | 1069 | 1071 | 1073 | rBV2 | 332    | 156     | 0.02%   | 0.002%  |
| 36 | 4.098 | 1089 | 1091 | 1094 | rVB2 | 372    | 190     | 0.02%   | 0.002%  |
| 37 | 4.178 | 1099 | 1116 | 1141 | rBV  | 91746  | 246803  | 24.59%  | 2.835%  |
| 38 | 4.654 | 1247 | 1264 | 1287 | rBV  | 176401 | 410614  | 40.90%  | 4.716%  |
| 39 | 4.764 | 1296 | 1298 | 1301 | rVB2 | 492    | 208     | 0.02%   | 0.002%  |
| 40 | 4.792 | 1304 | 1307 | 1308 | rBV2 | 336    | 180     | 0.02%   | 0.002%  |
| 41 | 4.854 | 1323 | 1326 | 1327 | rBV  | 271    | 134     | 0.01%   | 0.002%  |
| 42 | 4.879 | 1331 | 1334 | 1337 | rVV3 | 726    | 566     | 0.06%   | 0.007%  |
| 43 | 4.950 | 1354 | 1356 | 1359 | rBV2 | 382    | 224     | 0.02%   | 0.003%  |
| 44 | 5.082 | 1392 | 1397 | 1400 | rBV2 | 401    | 353     | 0.04%   | 0.004%  |
| 45 | 5.098 | 1400 | 1402 | 1405 | rVV2 | 247    | 161     | 0.02%   | 0.002%  |
| 46 | 5.127 | 1409 | 1411 | 1414 | rBV  | 168    | 111     | 0.01%   | 0.001%  |
| 47 | 5.143 | 1414 | 1416 | 1417 | rBV  | 304    | 91      | 0.01%   | 0.001%  |
| 48 | 5.227 | 1438 | 1442 | 1444 | rBV2 | 222    | 161     | 0.02%   | 0.002%  |
| 49 | 5.246 | 1444 | 1448 | 1454 | rBV3 | 409    | 369     | 0.04%   | 0.004%  |
| 50 | 5.345 | 1454 | 1479 | 1503 | rBV2 | 333904 | 1003856 | 100.00% | 11.530% |
| 51 | 5.561 | 1544 | 1546 | 1551 | rVB3 | 302    | 223     | 0.02%   | 0.003%  |
| 52 | 5.612 | 1559 | 1562 | 1564 | rBV  | 496    | 300     | 0.03%   | 0.003%  |
| 53 | 5.638 | 1567 | 1570 | 1573 | rBV2 | 378    | 258     | 0.03%   | 0.003%  |
| 54 | 5.818 | 1623 | 1626 | 1629 | rBV  | 376    | 200     | 0.02%   | 0.002%  |
| 55 | 5.889 | 1634 | 1648 | 1668 | rBV  | 377985 | 738437  | 73.56%  | 8.481%  |
| 56 | 6.069 | 1701 | 1704 | 1706 | rBV2 | 466    | 322     | 0.03%   | 0.004%  |
| 57 | 6.198 | 1736 | 1744 | 1748 | rVB5 | 1559   | 2098    | 0.21%   | 0.024%  |
| 58 | 6.336 | 1772 | 1787 | 1810 | rBV  | 235499 | 466387  | 46.46%  | 5.357%  |
| 59 | 6.516 | 1841 | 1843 | 1848 | rBV3 | 443    | 477     | 0.05%   | 0.005%  |
| 60 | 6.558 | 1853 | 1856 | 1858 | rBV2 | 705    | 375     | 0.04%   | 0.004%  |
| 61 | 6.641 | 1879 | 1882 | 1886 | rVB5 | 463    | 365     | 0.04%   | 0.004%  |
| 62 | 6.718 | 1903 | 1906 | 1912 | rVB4 | 520    | 495     | 0.05%   | 0.006%  |
| 63 | 6.770 | 1920 | 1922 | 1924 | rBV2 | 278    | 109     | 0.01%   | 0.001%  |
| 64 | 6.821 | 1937 | 1938 | 1939 | rBV2 | 387    | 133     | 0.01%   | 0.002%  |
| 65 | 6.895 | 1959 | 1961 | 1963 | rBV2 | 592    | 235     | 0.02%   | 0.003%  |
| 66 | 6.950 | 1976 | 1978 | 1982 | rBV  | 291    | 166     | 0.02%   | 0.002%  |
| 67 | 7.056 | 2008 | 2011 | 2013 | rBV  | 345    | 169     | 0.02%   | 0.002%  |
| 68 | 7.079 | 2016 | 2018 | 2020 | rBV2 | 367    | 166     | 0.02%   | 0.002%  |
| 69 | 7.091 | 2020 | 2022 | 2025 | rBV2 | 407    | 244     | 0.02%   | 0.003%  |
| 70 | 7.172 | 2041 | 2047 | 2051 | rBV5 | 618    | 550     | 0.05%   | 0.006%  |
| 71 | 7.230 | 2053 | 2065 | 2083 | rBV  | 133483 | 236543  | 23.56%  | 2.717%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
 Title : VOC Analysis

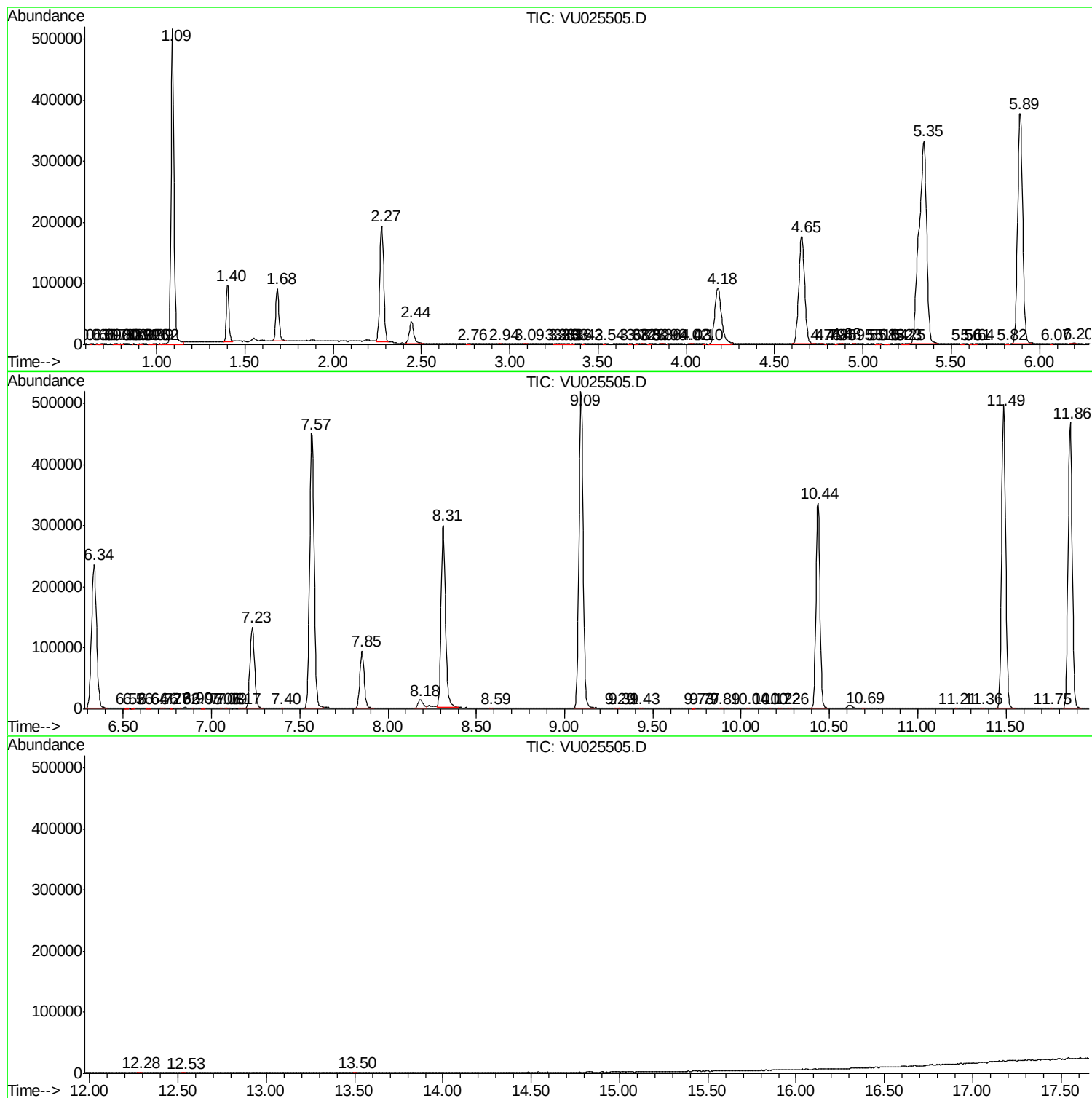
|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 72 | 7.400  | 2116 | 2118 | 2120 | rBV2 | 368    | 108    | 0.01%  | 0.001% |
| 73 | 7.567  | 2157 | 2170 | 2191 | rBV  | 450593 | 788473 | 78.54% | 9.056% |
| 74 | 7.853  | 2246 | 2259 | 2279 | rBV  | 94010  | 161575 | 16.10% | 1.856% |
| 75 | 8.185  | 2351 | 2362 | 2373 | rBV3 | 13737  | 29302  | 2.92%  | 0.337% |
| 76 | 8.313  | 2391 | 2402 | 2428 | rVB  | 297581 | 508443 | 50.65% | 5.840% |
| 77 | 8.587  | 2483 | 2487 | 2490 | rVB2 | 526    | 430    | 0.04%  | 0.005% |
| 78 | 9.091  | 2632 | 2644 | 2668 | rBV  | 519393 | 864363 | 86.10% | 9.927% |
| 79 | 9.287  | 2703 | 2705 | 2710 | rBV2 | 449    | 338    | 0.03%  | 0.004% |
| 80 | 9.307  | 2710 | 2711 | 2713 | rVV2 | 348    | 101    | 0.01%  | 0.001% |
| 81 | 9.432  | 2747 | 2750 | 2753 | rBV2 | 459    | 325    | 0.03%  | 0.004% |
| 82 | 9.734  | 2841 | 2844 | 2846 | rBV  | 379    | 238    | 0.02%  | 0.003% |
| 83 | 9.770  | 2853 | 2855 | 2856 | rBV  | 327    | 107    | 0.01%  | 0.001% |
| 84 | 9.886  | 2887 | 2891 | 2894 | rBV3 | 437    | 371    | 0.04%  | 0.004% |
| 85 | 10.037 | 2936 | 2938 | 2940 | rBV2 | 206    | 83     | 0.01%  | 0.001% |
| 86 | 10.165 | 2975 | 2978 | 2979 | rBV2 | 337    | 195    | 0.02%  | 0.002% |
| 87 | 10.217 | 2991 | 2994 | 2998 | rBV2 | 513    | 336    | 0.03%  | 0.004% |
| 88 | 10.265 | 3007 | 3009 | 3014 | rVB3 | 552    | 292    | 0.03%  | 0.003% |
| 89 | 10.435 | 3048 | 3062 | 3079 | rBV  | 336354 | 538557 | 53.65% | 6.185% |
| 90 | 10.689 | 3139 | 3141 | 3144 | rBV2 | 579    | 293    | 0.03%  | 0.003% |
| 91 | 11.213 | 3303 | 3304 | 3307 | rBV3 | 287    | 163    | 0.02%  | 0.002% |
| 92 | 11.361 | 3348 | 3350 | 3354 | rBV  | 415    | 324    | 0.03%  | 0.004% |
| 93 | 11.487 | 3376 | 3389 | 3408 | rBV  | 498847 | 799000 | 79.59% | 9.177% |
| 94 | 11.754 | 3470 | 3472 | 3474 | rBV  | 326    | 174    | 0.02%  | 0.002% |
| 95 | 11.863 | 3493 | 3506 | 3525 | rBV  | 468082 | 752559 | 74.97% | 8.643% |
| 96 | 12.278 | 3632 | 3635 | 3639 | rBV3 | 568    | 501    | 0.05%  | 0.006% |
| 97 | 12.532 | 3710 | 3714 | 3717 | rBV  | 548    | 456    | 0.05%  | 0.005% |
| 98 | 13.503 | 4013 | 4016 | 4017 | rBV2 | 839    | 477    | 0.05%  | 0.005% |

Sum of corrected areas: 8706841

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM071718WMA.M  
Quant Title : VOC Analysis

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



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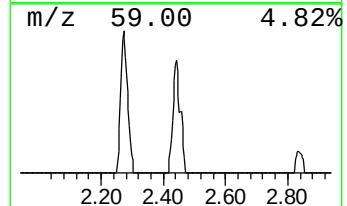
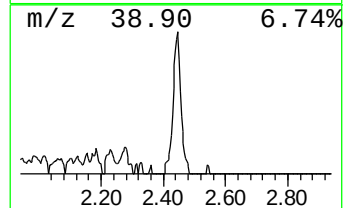
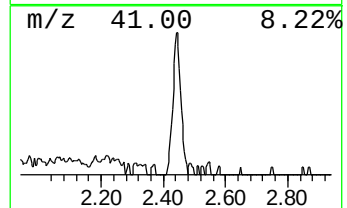
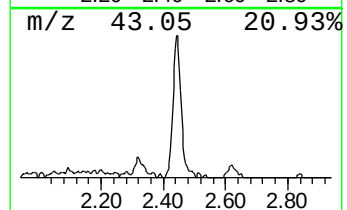
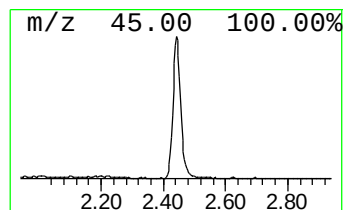
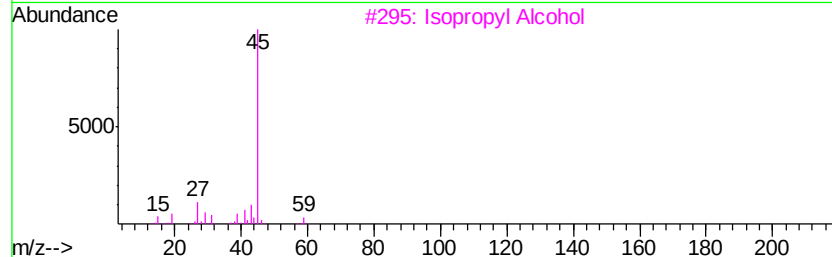
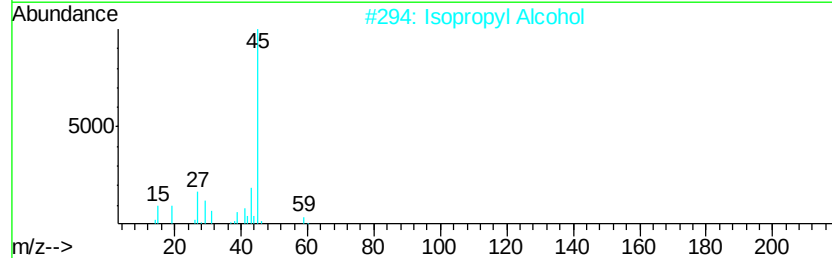
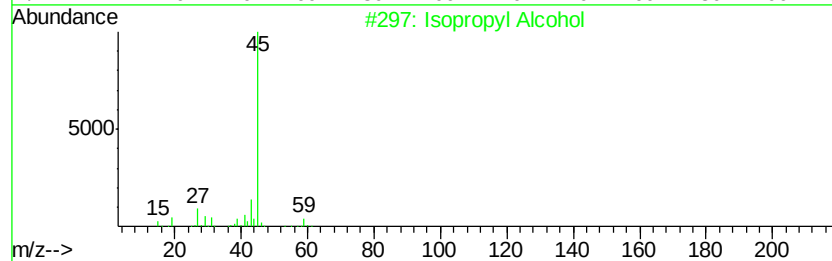
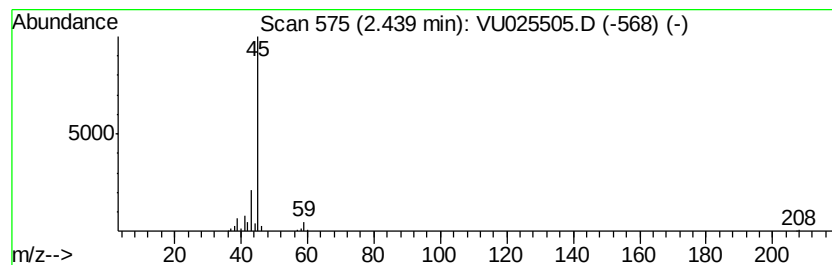
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 2 Isopropyl Alcohol Concentration Rank 3

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.44 | 4.23 ug/L | 62399 | 1,4-Difluorobenzene | 5.89 |

| 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 | 78   |
| 3    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 78   |
| 4    |    | Isopropyl Alcohol | 60 | C3H8O   | 000067-63-0 | 56   |
| 5    |    | Hydrazine, ethyl- | 60 | C2H8N2  | 000624-80-6 | 40   |



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| TIC Top Hit name  | RT   | EstConc | Units | Response | ---Internal Standard--- |      |        |      |
|-------------------|------|---------|-------|----------|-------------------------|------|--------|------|
|                   |      |         |       |          | #                       | RT   | Resp   | Conc |
| Isopropyl Alcohol | 2.44 | 4.2     | ug/L  | 62399    | 1                       | 5.89 | 738437 | 50.0 |