

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120619\  
 Data File : VV013940.D  
 Acq On : 06 Dec 2019 14:13  
 Operator : SY/MD  
 Sample : K6190-03  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BE897

## 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\_V\METHOD\SOMVLM120219WMA.M  
 Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|--------|----------|------------|----------|-----------|-------|-------------|------------|--------------|------------|
| 1      | 1.319    | 65         | 71       | 82        | rVB   | 335530      | 330527     | 15.57%       | 2.129%     |
| 2      | 1.573    | 144        | 150      | 169       | rVB   | 319559      | 369587     | 17.41%       | 2.380%     |
| 3      | 2.126    | 314        | 322      | 333       | rVB   | 621013      | 839513     | 39.55%       | 5.407%     |
| 4      | 2.840    | 540        | 544      | 547       | rBV3  | 1691        | 1263       | 0.06%        | 0.008%     |
| 5      | 2.856    | 547        | 549      | 551       | rBV2  | 996         | 396        | 0.02%        | 0.003%     |
| 6      | 2.875    | 551        | 555      | 556       | rBV3  | 1332        | 900        | 0.04%        | 0.006%     |
| 7      | 2.910    | 563        | 566      | 568       | rBV4  | 1757        | 1012       | 0.05%        | 0.007%     |
| 8      | 3.061    | 608        | 613      | 618       | rBV9  | 1204        | 1319       | 0.06%        | 0.008%     |
| 9      | 3.087    | 619        | 621      | 623       | rVV2  | 1057        | 427        | 0.02%        | 0.003%     |
| 10     | 3.132    | 633        | 635      | 640       | rVB4  | 1436        | 1131       | 0.05%        | 0.007%     |
| 11     | 3.171    | 645        | 647      | 648       | rVB2  | 726         | 221        | 0.01%        | 0.001%     |
| 12     | 3.187    | 650        | 652      | 655       | rBV2  | 642         | 347        | 0.02%        | 0.002%     |
| 13     | 3.212    | 658        | 660      | 662       | rBV2  | 656         | 416        | 0.02%        | 0.003%     |
| 14     | 3.245    | 667        | 670      | 672       | rBV3  | 1030        | 535        | 0.03%        | 0.003%     |
| 15     | 3.261    | 672        | 675      | 680       | rVV6  | 993         | 844        | 0.04%        | 0.005%     |
| 16     | 3.335    | 694        | 698      | 701       | rBV5  | 1082        | 891        | 0.04%        | 0.006%     |
| 17     | 3.409    | 717        | 721      | 724       | rBV5  | 1062        | 828        | 0.04%        | 0.005%     |
| 18     | 3.434    | 727        | 729      | 730       | rBV2  | 1215        | 495        | 0.02%        | 0.003%     |
| 19     | 3.476    | 740        | 742      | 744       | rBV2  | 1081        | 652        | 0.03%        | 0.004%     |
| 20     | 3.547    | 761        | 764      | 765       | rBV3  | 829         | 470        | 0.02%        | 0.003%     |
| 21     | 3.579    | 772        | 774      | 776       | rBV3  | 1184        | 532        | 0.03%        | 0.003%     |
| 22     | 3.592    | 776        | 778      | 781       | rVB3  | 1215        | 630        | 0.03%        | 0.004%     |
| 23     | 3.611    | 781        | 784      | 786       | rBV3  | 939         | 630        | 0.03%        | 0.004%     |
| 24     | 3.630    | 786        | 790      | 792       | rBV4  | 1676        | 1304       | 0.06%        | 0.008%     |
| 25     | 3.669    | 800        | 802      | 803       | rVB2  | 933         | 273        | 0.01%        | 0.002%     |
| 26     | 3.679    | 803        | 805      | 807       | rBV3  | 1094        | 710        | 0.03%        | 0.005%     |
| 27     | 3.708    | 811        | 814      | 817       | rVB6  | 1204        | 960        | 0.05%        | 0.006%     |
| 28     | 3.846    | 855        | 857      | 858       | rBV3  | 850         | 330        | 0.02%        | 0.002%     |
| 29     | 3.923    | 867        | 881      | 909       | rBV   | 158476      | 444010     | 20.92%       | 2.860%     |
| 30     | 4.396    | 1012       | 1028     | 1048      | rBV2  | 358132      | 850162     | 40.06%       | 5.476%     |
| 31     | 4.605    | 1091       | 1093     | 1096      | rVB3  | 1577        | 608        | 0.03%        | 0.004%     |
| 32     | 4.621    | 1096       | 1098     | 1099      | rBV2  | 986         | 336        | 0.02%        | 0.002%     |
| 33     | 4.772    | 1143       | 1145     | 1146      | rBV   | 461         | 239        | 0.01%        | 0.002%     |
| 34     | 4.849    | 1167       | 1169     | 1171      | rBV2  | 1303        | 787        | 0.04%        | 0.005%     |

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 Title : VOC Analysis

|    |        |      |      |      |      |        |         |         |         |
|----|--------|------|------|------|------|--------|---------|---------|---------|
| 35 | 4.894  | 1182 | 1183 | 1185 | rBV2 | 558    | 248     | 0.01%   | 0.002%  |
| 36 | 4.942  | 1194 | 1198 | 1201 | rBV5 | 1855   | 1245    | 0.06%   | 0.008%  |
| 37 | 4.978  | 1206 | 1209 | 1213 | rBV3 | 1226   | 1299    | 0.06%   | 0.008%  |
| 38 | 5.090  | 1225 | 1244 | 1267 | rBV2 | 844760 | 2122430 | 100.00% | 13.670% |
| 39 | 5.444  | 1351 | 1354 | 1356 | rBV4 | 1555   | 1124    | 0.05%   | 0.007%  |
| 40 | 5.659  | 1408 | 1421 | 1445 | rBV  | 635359 | 1247564 | 58.78%  | 8.035%  |
| 41 | 5.894  | 1491 | 1494 | 1496 | rBV4 | 802    | 636     | 0.03%   | 0.004%  |
| 42 | 5.945  | 1498 | 1510 | 1525 | rVV3 | 39656  | 86382   | 4.07%   | 0.556%  |
| 43 | 6.113  | 1549 | 1562 | 1580 | rBV  | 441334 | 895296  | 42.18%  | 5.766%  |
| 44 | 6.408  | 1652 | 1654 | 1657 | rBV2 | 1202   | 719     | 0.03%   | 0.005%  |
| 45 | 6.589  | 1709 | 1710 | 1712 | rBV2 | 1111   | 518     | 0.02%   | 0.003%  |
| 46 | 6.769  | 1764 | 1766 | 1768 | rBV2 | 1084   | 613     | 0.03%   | 0.004%  |
| 47 | 6.801  | 1773 | 1776 | 1777 | rBV3 | 759    | 387     | 0.02%   | 0.002%  |
| 48 | 6.859  | 1791 | 1794 | 1795 | rBV3 | 693    | 333     | 0.02%   | 0.002%  |
| 49 | 6.888  | 1801 | 1803 | 1806 | rBV3 | 747    | 426     | 0.02%   | 0.003%  |
| 50 | 6.929  | 1814 | 1816 | 1818 | rBV2 | 1076   | 520     | 0.02%   | 0.003%  |
| 51 | 7.026  | 1834 | 1846 | 1869 | rBV  | 234589 | 422465  | 19.90%  | 2.721%  |
| 52 | 7.357  | 1935 | 1949 | 1970 | rBV  | 901415 | 1571285 | 74.03%  | 10.120% |
| 53 | 7.659  | 2033 | 2043 | 2057 | rBV  | 175496 | 292290  | 13.77%  | 1.883%  |
| 54 | 7.888  | 2110 | 2114 | 2117 | rBV4 | 1332   | 1230    | 0.06%   | 0.008%  |
| 55 | 8.129  | 2178 | 2189 | 2217 | rBV2 | 423183 | 900444  | 42.43%  | 5.799%  |
| 56 | 8.759  | 2383 | 2385 | 2387 | rBV4 | 1362   | 893     | 0.04%   | 0.006%  |
| 57 | 8.891  | 2412 | 2426 | 2448 | rBV  | 984074 | 1588157 | 74.83%  | 10.229% |
| 58 | 9.177  | 2507 | 2515 | 2528 | rBV3 | 22194  | 37635   | 1.77%   | 0.242%  |
| 59 | 9.289  | 2545 | 2550 | 2553 | rBV6 | 1467   | 1188    | 0.06%   | 0.008%  |
| 60 | 9.331  | 2562 | 2563 | 2564 | rBV  | 930    | 357     | 0.02%   | 0.002%  |
| 61 | 9.585  | 2634 | 2642 | 2652 | rBV2 | 13554  | 21663   | 1.02%   | 0.140%  |
| 62 | 9.733  | 2684 | 2688 | 2689 | rBV4 | 1183   | 681     | 0.03%   | 0.004%  |
| 63 | 9.778  | 2697 | 2702 | 2704 | rBV5 | 2226   | 1409    | 0.07%   | 0.009%  |
| 64 | 9.842  | 2719 | 2722 | 2724 | rBV4 | 1869   | 1388    | 0.07%   | 0.009%  |
| 65 | 9.961  | 2756 | 2759 | 2760 | rBV3 | 1942   | 1073    | 0.05%   | 0.007%  |
| 66 | 10.013 | 2773 | 2775 | 2778 | rVB3 | 707    | 357     | 0.02%   | 0.002%  |
| 67 | 10.035 | 2778 | 2782 | 2784 | rBV4 | 1787   | 1385    | 0.07%   | 0.009%  |
| 68 | 10.048 | 2784 | 2786 | 2788 | rVV2 | 1330   | 675     | 0.03%   | 0.004%  |
| 69 | 10.074 | 2792 | 2794 | 2799 | rVB4 | 1774   | 964     | 0.05%   | 0.006%  |
| 70 | 10.096 | 2799 | 2801 | 2802 | rBV2 | 1131   | 465     | 0.02%   | 0.003%  |
| 71 | 10.141 | 2813 | 2815 | 2816 | rBV2 | 635    | 233     | 0.01%   | 0.002%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |         |        |        |
|-----|--------|------|------|------|-------|--------|---------|--------|--------|
| 72  | 10.151 | 2816 | 2818 | 2822 | rVV3  | 1209   | 913     | 0.04%  | 0.006% |
| 73  | 10.170 | 2822 | 2824 | 2827 | rVB3  | 1159   | 595     | 0.03%  | 0.004% |
| 74  | 10.254 | 2839 | 2850 | 2866 | rBV   | 588177 | 930595  | 43.85% | 5.994% |
| 75  | 10.399 | 2891 | 2895 | 2896 | rBV3  | 2474   | 1797    | 0.08%  | 0.012% |
| 76  | 10.572 | 2946 | 2949 | 2950 | rBV3  | 1734   | 951     | 0.04%  | 0.006% |
| 77  | 10.617 | 2960 | 2963 | 2965 | rBV4  | 1263   | 739     | 0.03%  | 0.005% |
| 78  | 10.817 | 3023 | 3025 | 3026 | rBV2  | 687    | 264     | 0.01%  | 0.002% |
| 79  | 10.897 | 3048 | 3050 | 3051 | rBV2  | 1510   | 548     | 0.03%  | 0.004% |
| 80  | 11.051 | 3093 | 3098 | 3101 | rVB7  | 1560   | 1254    | 0.06%  | 0.008% |
| 81  | 11.064 | 3101 | 3102 | 3104 | rBV   | 1101   | 383     | 0.02%  | 0.002% |
| 82  | 11.093 | 3109 | 3111 | 3114 | rVB2  | 1353   | 626     | 0.03%  | 0.004% |
| 83  | 11.109 | 3114 | 3116 | 3119 | rVB2  | 792    | 478     | 0.02%  | 0.003% |
| 84  | 11.135 | 3119 | 3124 | 3125 | rBV3  | 1251   | 841     | 0.04%  | 0.005% |
| 85  | 11.199 | 3138 | 3144 | 3155 | rBV10 | 3030   | 5997    | 0.28%  | 0.039% |
| 86  | 11.241 | 3155 | 3157 | 3160 | rBV5  | 1481   | 925     | 0.04%  | 0.006% |
| 87  | 11.289 | 3160 | 3172 | 3191 | rBV   | 775646 | 1211679 | 57.09% | 7.804% |
| 88  | 11.582 | 3252 | 3263 | 3267 | rBV10 | 4897   | 8110    | 0.38%  | 0.052% |
| 89  | 11.666 | 3278 | 3289 | 3307 | rBV   | 829661 | 1288354 | 60.70% | 8.298% |
| 90  | 11.858 | 3347 | 3349 | 3350 | rBV2  | 1037   | 522     | 0.02%  | 0.003% |
| 91  | 12.376 | 3507 | 3510 | 3512 | rBV2  | 1101   | 626     | 0.03%  | 0.004% |
| 92  | 12.537 | 3556 | 3560 | 3562 | rVB2  | 1870   | 1153    | 0.05%  | 0.007% |
| 93  | 12.550 | 3562 | 3564 | 3567 | rBV3  | 1039   | 710     | 0.03%  | 0.005% |
| 94  | 12.669 | 3597 | 3601 | 3604 | rBV5  | 1135   | 950     | 0.04%  | 0.006% |
| 95  | 12.694 | 3604 | 3609 | 3614 | rVB7  | 1979   | 2146    | 0.10%  | 0.014% |
| 96  | 12.916 | 3674 | 3678 | 3682 | rVB5  | 2355   | 1525    | 0.07%  | 0.010% |
| 97  | 13.077 | 3725 | 3728 | 3732 | rBV4  | 1249   | 1139    | 0.05%  | 0.007% |
| 98  | 13.235 | 3774 | 3777 | 3778 | rBV3  | 1332   | 547     | 0.03%  | 0.004% |
| 99  | 13.849 | 3966 | 3968 | 3969 | rBV   | 1012   | 378     | 0.02%  | 0.002% |
| 100 | 14.601 | 4199 | 4202 | 4207 | rBV7  | 2430   | 2275    | 0.11%  | 0.015% |

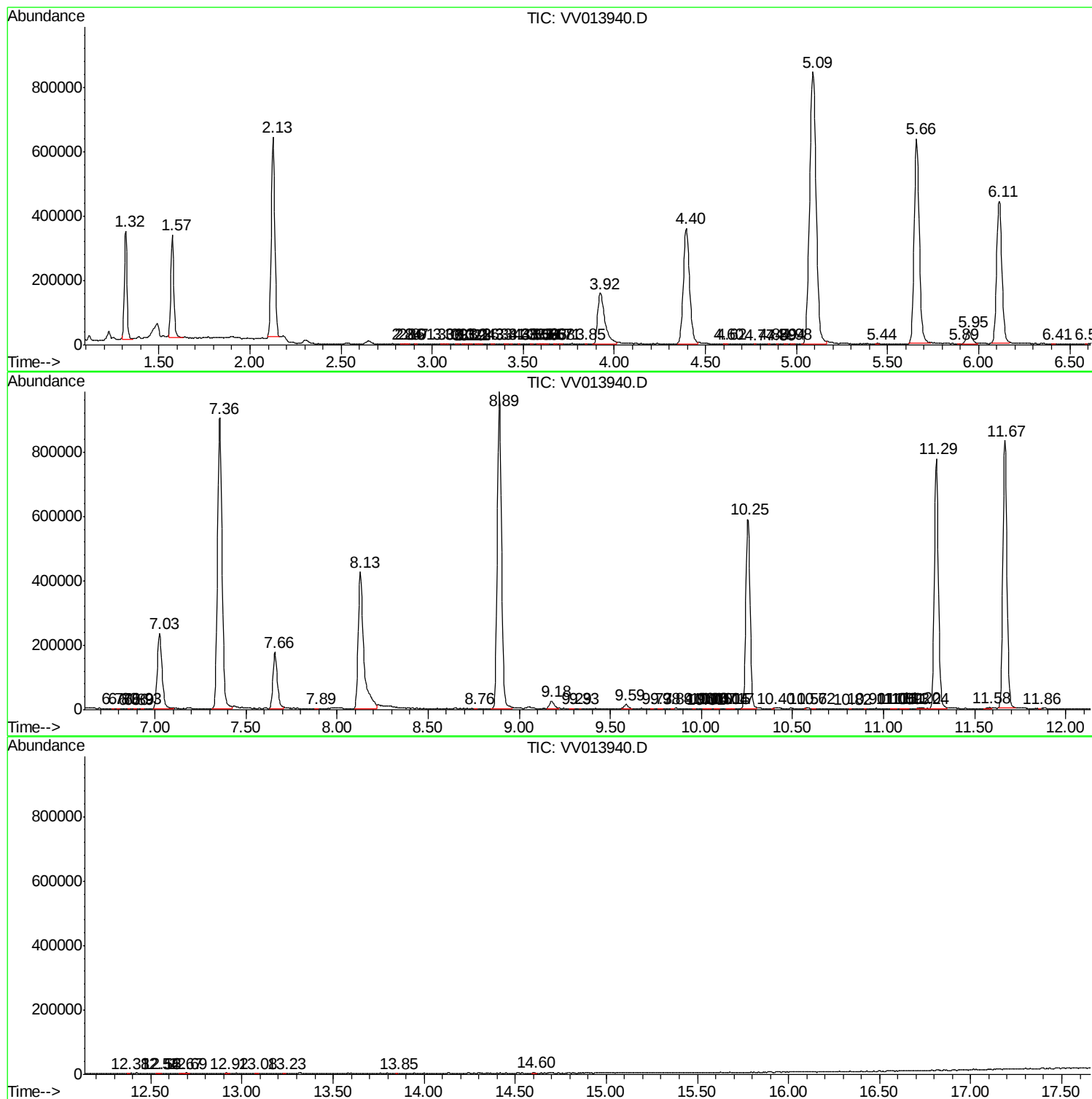
Sum of corrected areas: 15526282

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV120619\  
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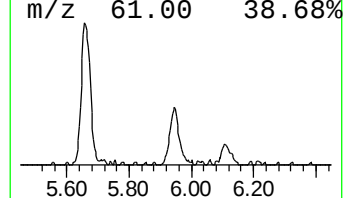
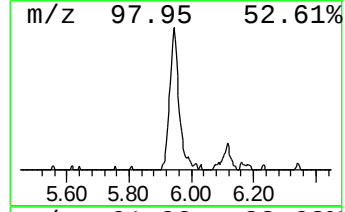
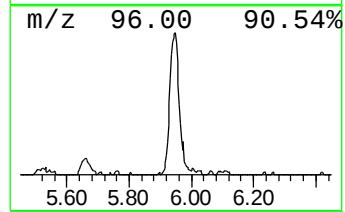
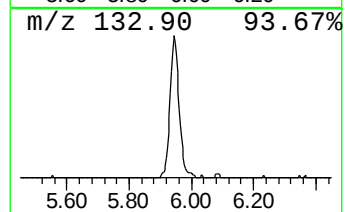
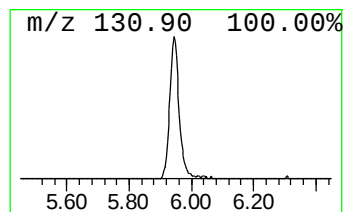
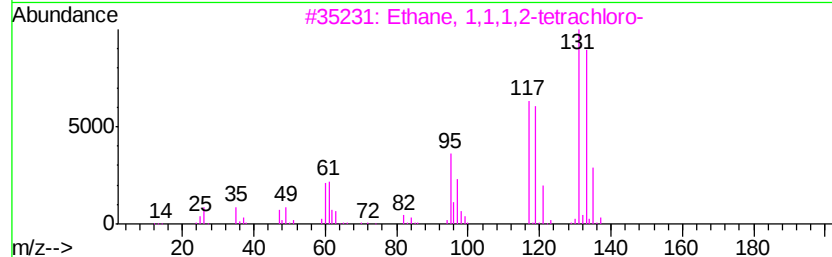
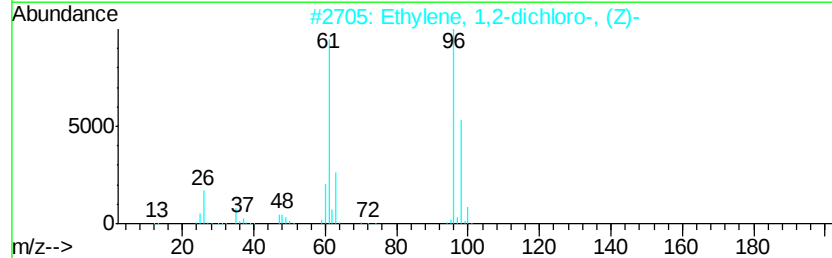
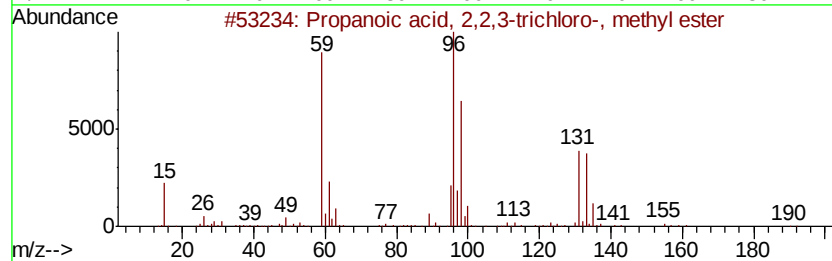
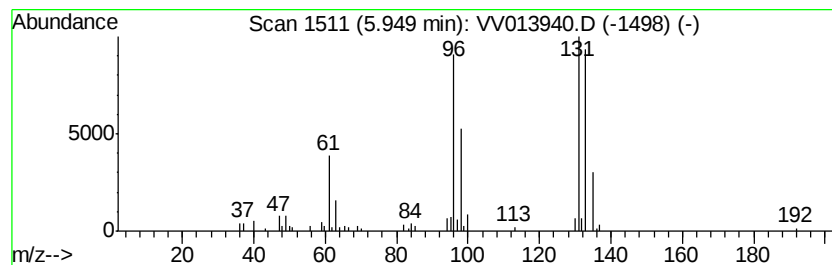
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Propanoic acid, 2,2,3-trich... Concentration Rank 2

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.95 | 3.46 ug/L | 86382 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 56   |
| 2    |    | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 38   |
| 3    |    | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 37   |
| 4    |    | Clorethate                          | 322 | C5H4Cl6O3 | 005634-37-7 | 37   |
| 5    |    | Benzene, fluoro-                    | 96  | C6H5F     | 000462-06-6 | 11   |



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| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|----------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                      |      |         |       |          | #                     | RT   | Resp    | Conc |
| Propanoic acid, 2... | 5.95 | 3.5     | ug/L  | 86382    | 1                     | 5.66 | 1247560 | 50.0 |