

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV120619\  
 Data File : VV013943.D  
 Acq On : 06 Dec 2019 15:26  
 Operator : SY/MD  
 Sample : K6170-12  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0BT8

## 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   | 323686      | 313519     | 15.26%       | 2.012%     |
| 2      | 1.560    | 140        | 146      | 163       | rVB   | 299871      | 362649     | 17.65%       | 2.327%     |
| 3      | 2.123    | 313        | 321      | 333       | rVB   | 602636      | 831924     | 40.48%       | 5.339%     |
| 4      | 2.820    | 536        | 538      | 541       | rBV3  | 763         | 510        | 0.02%        | 0.003%     |
| 5      | 2.878    | 553        | 556      | 562       | rBV6  | 1261        | 1270       | 0.06%        | 0.008%     |
| 6      | 2.955    | 577        | 580      | 581       | rBV3  | 1158        | 568        | 0.03%        | 0.004%     |
| 7      | 3.045    | 605        | 608      | 610       | rVB4  | 1424        | 806        | 0.04%        | 0.005%     |
| 8      | 3.164    | 643        | 645      | 648       | rBV3  | 1656        | 1262       | 0.06%        | 0.008%     |
| 9      | 3.225    | 662        | 664      | 665       | rBV   | 712         | 285        | 0.01%        | 0.002%     |
| 10     | 3.235    | 665        | 667      | 668       | rBV2  | 783         | 346        | 0.02%        | 0.002%     |
| 11     | 3.357    | 703        | 705      | 708       | rVB2  | 1332        | 632        | 0.03%        | 0.004%     |
| 12     | 3.373    | 708        | 710      | 711       | rBV2  | 1145        | 438        | 0.02%        | 0.003%     |
| 13     | 3.495    | 740        | 748      | 750       | rBV6  | 1402        | 1800       | 0.09%        | 0.012%     |
| 14     | 3.608    | 781        | 783      | 786       | rBV2  | 1045        | 520        | 0.03%        | 0.003%     |
| 15     | 3.666    | 799        | 801      | 804       | rBV3  | 1657        | 856        | 0.04%        | 0.005%     |
| 16     | 3.695    | 807        | 810      | 814       | rBV3  | 986         | 796        | 0.04%        | 0.005%     |
| 17     | 3.711    | 814        | 815      | 817       | rBV   | 670         | 308        | 0.01%        | 0.002%     |
| 18     | 3.794    | 838        | 841      | 844       | rBV3  | 1068        | 931        | 0.05%        | 0.006%     |
| 19     | 3.839    | 852        | 855      | 857       | rBV3  | 835         | 445        | 0.02%        | 0.003%     |
| 20     | 3.923    | 870        | 881      | 906       | rBV   | 148586      | 398403     | 19.39%       | 2.557%     |
| 21     | 4.328    | 1004       | 1007     | 1010      | rBV4  | 1840        | 1399       | 0.07%        | 0.009%     |
| 22     | 4.393    | 1013       | 1027     | 1052      | rVB   | 356195      | 849978     | 41.36%       | 5.455%     |
| 23     | 4.759    | 1139       | 1141     | 1146      | rBV3  | 1065        | 651        | 0.03%        | 0.004%     |
| 24     | 4.801    | 1151       | 1154     | 1158      | rBV5  | 1436        | 1385       | 0.07%        | 0.009%     |
| 25     | 4.868    | 1173       | 1175     | 1177      | rBV3  | 1006        | 503        | 0.02%        | 0.003%     |
| 26     | 4.904    | 1183       | 1186     | 1187      | rBV2  | 1025        | 611        | 0.03%        | 0.004%     |
| 27     | 5.090    | 1225       | 1244     | 1264      | rBV2  | 814357      | 2055162    | 100.00%      | 13.189%    |
| 28     | 5.380    | 1330       | 1334     | 1336      | rBV4  | 2167        | 1766       | 0.09%        | 0.011%     |
| 29     | 5.659    | 1408       | 1421     | 1442      | rBV   | 681069      | 1351336    | 65.75%       | 8.672%     |
| 30     | 5.946    | 1500       | 1510     | 1524      | rBV3  | 41821       | 82255      | 4.00%        | 0.528%     |
| 31     | 6.113    | 1549       | 1562     | 1588      | rVB   | 466255      | 937769     | 45.63%       | 6.018%     |
| 32     | 6.367    | 1639       | 1641     | 1643      | rBV2  | 1304        | 514        | 0.03%        | 0.003%     |
| 33     | 6.746    | 1757       | 1759     | 1761      | rBV3  | 1000        | 513        | 0.02%        | 0.003%     |
| 34     | 6.917    | 1811       | 1812     | 1815      | rBV3  | 1012        | 524        | 0.03%        | 0.003%     |

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 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 7.023  | 1835 | 1845 | 1867 | rVB2 | 233176  | 418346  | 20.36% | 2.685%  |
| 36 | 7.354  | 1936 | 1948 | 1965 | rBV  | 936770  | 1598052 | 77.76% | 10.256% |
| 37 | 7.659  | 2033 | 2043 | 2062 | rBV  | 167927  | 278951  | 13.57% | 1.790%  |
| 38 | 7.897  | 2115 | 2117 | 2120 | rBV3 | 1990    | 1027    | 0.05%  | 0.007%  |
| 39 | 7.974  | 2139 | 2141 | 2143 | rBV3 | 1719    | 1003    | 0.05%  | 0.006%  |
| 40 | 8.129  | 2176 | 2189 | 2221 | rBV2 | 423181  | 925420  | 45.03% | 5.939%  |
| 41 | 8.675  | 2357 | 2359 | 2360 | rBV  | 1280    | 374     | 0.02%  | 0.002%  |
| 42 | 8.756  | 2381 | 2384 | 2386 | rBV4 | 1287    | 766     | 0.04%  | 0.005%  |
| 43 | 8.826  | 2404 | 2406 | 2407 | rBV  | 1204    | 578     | 0.03%  | 0.004%  |
| 44 | 8.891  | 2414 | 2426 | 2445 | rBV  | 1041910 | 1667425 | 81.13% | 10.701% |
| 45 | 9.122  | 2495 | 2498 | 2502 | rBV3 | 2247    | 1833    | 0.09%  | 0.012%  |
| 46 | 9.283  | 2545 | 2548 | 2549 | rBV2 | 1461    | 794     | 0.04%  | 0.005%  |
| 47 | 9.534  | 2624 | 2626 | 2627 | rBV  | 1039    | 340     | 0.02%  | 0.002%  |
| 48 | 9.698  | 2675 | 2677 | 2679 | rBV4 | 1147    | 592     | 0.03%  | 0.004%  |
| 49 | 9.711  | 2679 | 2681 | 2683 | rVV3 | 877     | 421     | 0.02%  | 0.003%  |
| 50 | 9.804  | 2708 | 2710 | 2711 | rBV2 | 946     | 418     | 0.02%  | 0.003%  |
| 51 | 9.852  | 2723 | 2725 | 2730 | rBV3 | 1299    | 901     | 0.04%  | 0.006%  |
| 52 | 9.929  | 2746 | 2749 | 2753 | rBV6 | 1361    | 975     | 0.05%  | 0.006%  |
| 53 | 10.080 | 2794 | 2796 | 2797 | rBV  | 1091    | 386     | 0.02%  | 0.002%  |
| 54 | 10.174 | 2822 | 2825 | 2826 | rBV2 | 1089    | 554     | 0.03%  | 0.004%  |
| 55 | 10.254 | 2839 | 2850 | 2871 | rBV  | 598283  | 939616  | 45.72% | 6.030%  |
| 56 | 10.350 | 2878 | 2880 | 2883 | rVB3 | 1289    | 564     | 0.03%  | 0.004%  |
| 57 | 10.428 | 2893 | 2904 | 2909 | rBV9 | 2524    | 4442    | 0.22%  | 0.029%  |
| 58 | 10.537 | 2935 | 2938 | 2940 | rBV3 | 859     | 504     | 0.02%  | 0.003%  |
| 59 | 10.617 | 2959 | 2963 | 2965 | rBV3 | 1410    | 1179    | 0.06%  | 0.008%  |
| 60 | 10.698 | 2985 | 2988 | 2989 | rBV2 | 1223    | 522     | 0.03%  | 0.003%  |
| 61 | 10.875 | 3038 | 3043 | 3044 | rBV3 | 1331    | 997     | 0.05%  | 0.006%  |
| 62 | 11.006 | 3082 | 3084 | 3086 | rBV2 | 851     | 530     | 0.03%  | 0.003%  |
| 63 | 11.042 | 3090 | 3095 | 3097 | rBV3 | 1313    | 1260    | 0.06%  | 0.008%  |
| 64 | 11.084 | 3106 | 3108 | 3110 | rBV2 | 694     | 344     | 0.02%  | 0.002%  |
| 65 | 11.196 | 3141 | 3143 | 3145 | rBV3 | 1288    | 755     | 0.04%  | 0.005%  |
| 66 | 11.248 | 3158 | 3159 | 3160 | rVB  | 891     | 172     | 0.01%  | 0.001%  |
| 67 | 11.289 | 3160 | 3172 | 3189 | rBV  | 808045  | 1246854 | 60.67% | 8.002%  |
| 68 | 11.666 | 3277 | 3289 | 3309 | rBV  | 806251  | 1274303 | 62.00% | 8.178%  |
| 69 | 12.100 | 3420 | 3424 | 3426 | rBV4 | 1684    | 1117    | 0.05%  | 0.007%  |
| 70 | 12.244 | 3467 | 3469 | 3473 | rBV3 | 1437    | 1164    | 0.06%  | 0.007%  |
| 71 | 12.424 | 3523 | 3525 | 3526 | rBV3 | 1004    | 358     | 0.02%  | 0.002%  |

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Instrument :  
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C0BT8

## Integration Parameters: LSCINT.P

Integrator: RTE  
Smoothing : OFF  
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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\_V\METHOD\SOMVLM120219WMA.M  
Title : VOC Analysis

|    |        |      |      |      |      |      |      |       |        |
|----|--------|------|------|------|------|------|------|-------|--------|
| 72 | 12.492 | 3542 | 3546 | 3549 | rBV5 | 1450 | 1268 | 0.06% | 0.008% |
| 73 | 12.711 | 3612 | 3614 | 3616 | rBV3 | 964  | 492  | 0.02% | 0.003% |
| 74 | 13.122 | 3740 | 3742 | 3743 | rBV2 | 862  | 447  | 0.02% | 0.003% |
| 75 | 13.151 | 3749 | 3751 | 3753 | rBV2 | 1394 | 620  | 0.03% | 0.004% |
| 76 | 13.180 | 3758 | 3760 | 3762 | rBV2 | 1132 | 464  | 0.02% | 0.003% |
| 77 | 13.244 | 3777 | 3780 | 3785 | rBV6 | 1226 | 1308 | 0.06% | 0.008% |
| 78 | 13.714 | 3924 | 3926 | 3927 | rBV2 | 1080 | 484  | 0.02% | 0.003% |
| 79 | 14.080 | 4038 | 4040 | 4041 | rBV2 | 1569 | 718  | 0.03% | 0.005% |

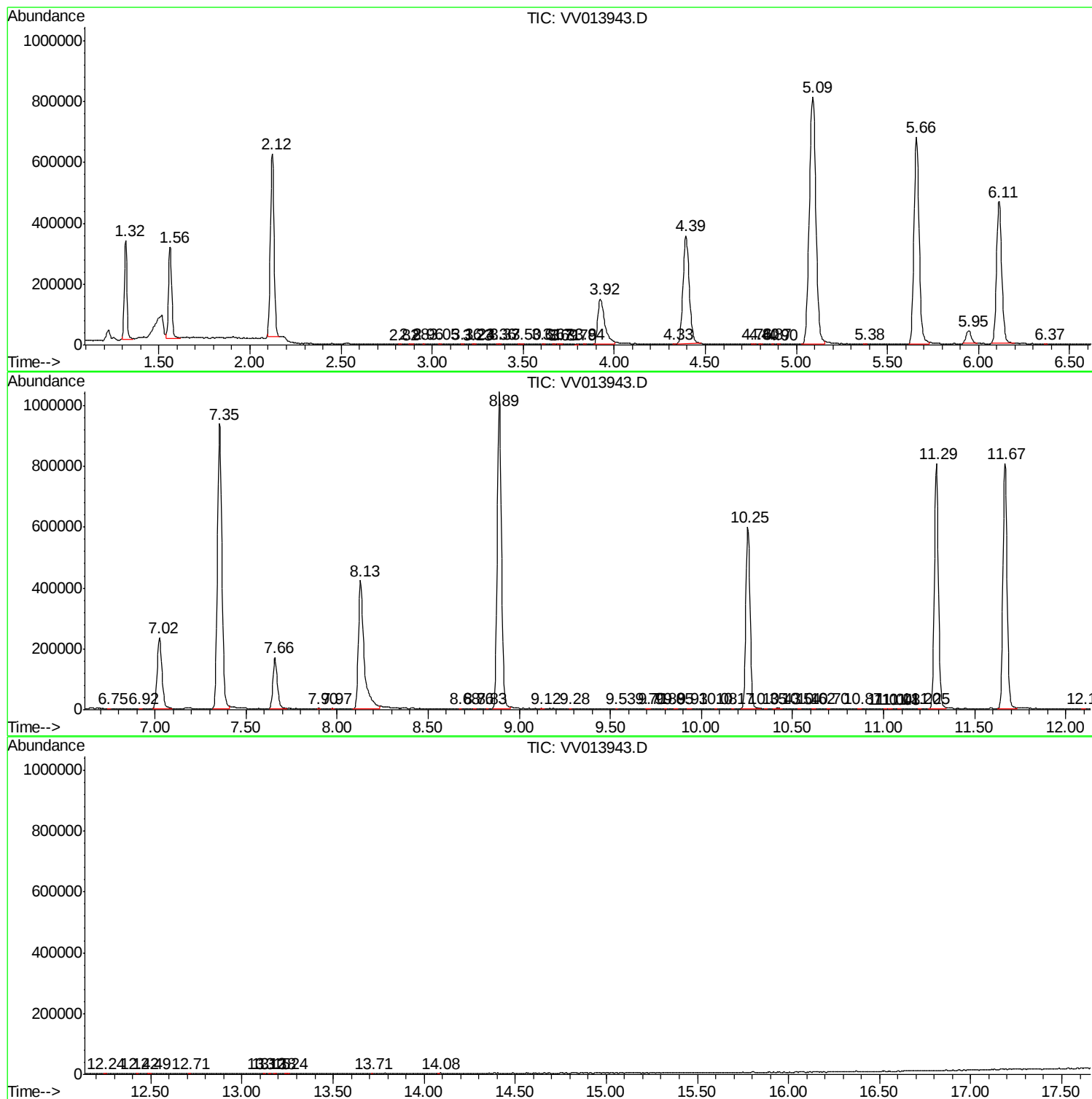
Sum of corrected areas: 15582272

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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



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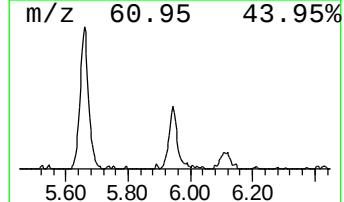
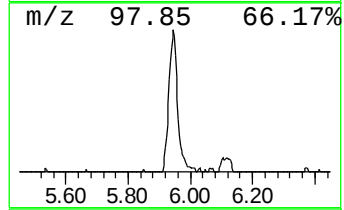
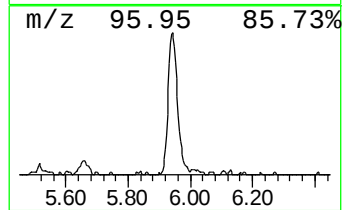
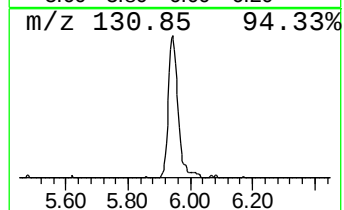
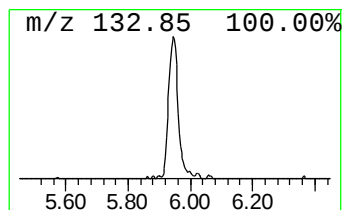
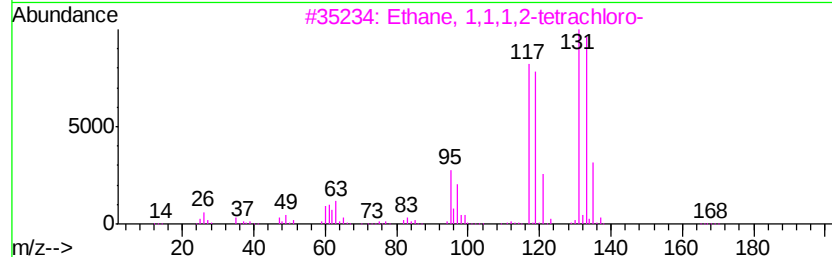
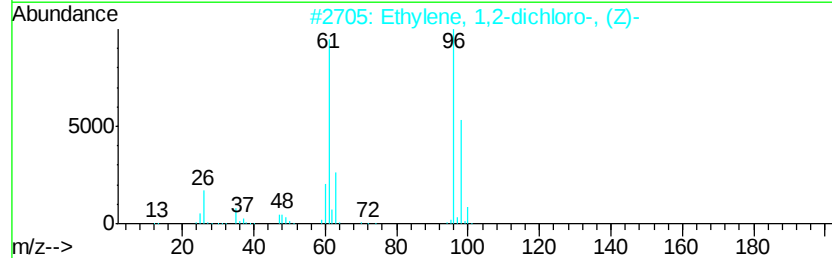
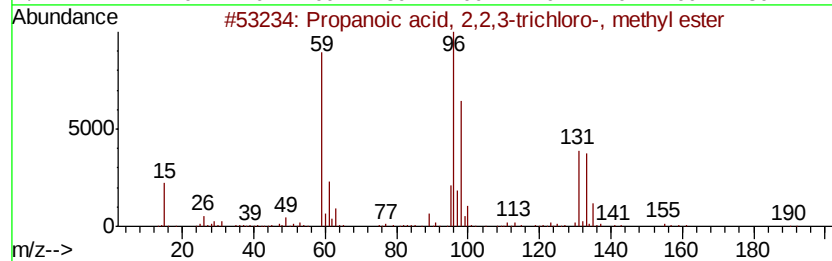
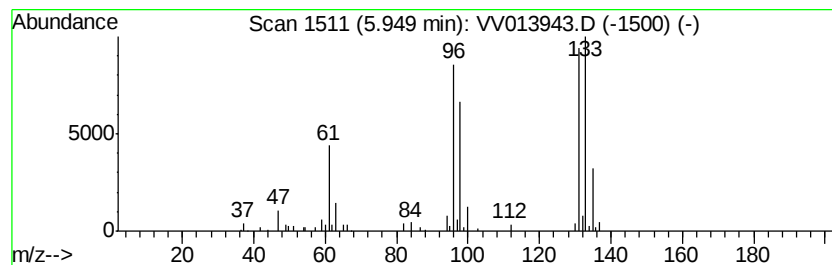
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM120219WMA.M  
Quant Title : VOC Analysis

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

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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    | 3.04 ug/L                          | 82255        | 1,4-Difluorobenzene | 5.66        |      |      |
| Hit# of | 5                                  | Tentative ID | MW                  | MolForm     | CAS# | Qual |
| 1       | Propanoic acid, 2,2,3-trichloro-   | 190          | C4H5Cl3O2           | 004749-35-3 | 50   |      |
| 2       | Ethylene, 1,2-dichloro-, (Z)-      | 96           | C2H2Cl2             | 000156-59-2 | 38   |      |
| 3       | Ethane, 1,1,1,2-tetrachloro-       | 166          | C2H2Cl4             | 000630-20-6 | 38   |      |
| 4       | Clorethate                         | 322          | C5H4Cl6O3           | 005634-37-7 | 37   |      |
| 5       | Dihydro-4,5-dichloro-2(3H)furanone | 154          | C4H4Cl2O2           | 114434-99-0 | 25   |      |



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| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|----------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                      |      |         |       |          | #                     | RT   | Resp    | Conc |
| Propanoic acid, 2... | 5.95 | 3.0     | ug/L  | 82255    | 1                     | 5.66 | 1351340 | 50.0 |