

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV101419\  
 Data File : VV013154.D  
 Acq On : 14 Oct 2019 20:30  
 Operator : SY/MD  
 Sample : K5347-14 50X  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AG3

## 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\SOMVLM101119WMA.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         | 1.315       | 65            | 70          | 90           | rVB      | 268563         | 294376        | 11.55%          | 1.560%        |
| 2         | 1.582       | 147           | 153         | 169          | rVB      | 258445         | 294586        | 11.56%          | 1.561%        |
| 3         | 2.126       | 313           | 322         | 334          | rBV      | 488065         | 677513        | 26.59%          | 3.590%        |
| 4         | 2.714       | 502           | 505         | 509          | rVB4     | 777            | 595           | 0.02%           | 0.003%        |
| 5         | 3.129       | 630           | 634         | 636          | rBV3     | 366            | 292           | 0.01%           | 0.002%        |
| 6         | 3.145       | 636           | 639         | 641          | rVV      | 465            | 257           | 0.01%           | 0.001%        |
| 7         | 3.212       | 658           | 660         | 663          | rBV2     | 377            | 254           | 0.01%           | 0.001%        |
| 8         | 3.283       | 680           | 682         | 684          | rBV      | 294            | 182           | 0.01%           | 0.001%        |
| 9         | 3.412       | 716           | 722         | 723          | rBV2     | 285            | 192           | 0.01%           | 0.001%        |
| 10        | 3.425       | 723           | 726         | 728          | rVV3     | 345            | 268           | 0.01%           | 0.001%        |
| 11        | 3.495       | 746           | 748         | 751          | rVB2     | 521            | 265           | 0.01%           | 0.001%        |
| 12        | 3.515       | 751           | 754         | 760          | rBV3     | 475            | 465           | 0.02%           | 0.002%        |
| 13        | 3.544       | 760           | 763         | 766          | rBV3     | 454            | 407           | 0.02%           | 0.002%        |
| 14        | 3.563       | 767           | 769         | 774          | rVB      | 471            | 293           | 0.01%           | 0.002%        |
| 15        | 3.711       | 812           | 815         | 818          | rBV      | 333            | 197           | 0.01%           | 0.001%        |
| 16        | 3.775       | 833           | 835         | 837          | rBV2     | 422            | 243           | 0.01%           | 0.001%        |
| 17        | 3.830       | 849           | 852         | 853          | rBV      | 298            | 130           | 0.01%           | 0.001%        |
| 18        | 3.862       | 858           | 862         | 865          | rBV2     | 582            | 334           | 0.01%           | 0.002%        |
| 19        | 3.913       | 876           | 878         | 880          | rBV2     | 302            | 157           | 0.01%           | 0.001%        |
| 20        | 3.971       | 881           | 896         | 948          | rBV2     | 113224         | 624288        | 24.50%          | 3.308%        |
| 21        | 4.399       | 1013          | 1029        | 1058         | rBV      | 403109         | 989716        | 38.84%          | 5.245%        |
| 22        | 4.695       | 1116          | 1121        | 1124         | rBV3     | 684            | 685           | 0.03%           | 0.004%        |
| 23        | 4.782       | 1146          | 1148        | 1151         | rVB3     | 425            | 196           | 0.01%           | 0.001%        |
| 24        | 4.801       | 1151          | 1154        | 1156         | rBV      | 320            | 181           | 0.01%           | 0.001%        |
| 25        | 4.846       | 1163          | 1168        | 1171         | rBV3     | 778            | 738           | 0.03%           | 0.004%        |
| 26        | 4.933       | 1191          | 1195        | 1199         | rBV2     | 787            | 585           | 0.02%           | 0.003%        |
| 27        | 4.952       | 1199          | 1201        | 1203         | rBV      | 400            | 201           | 0.01%           | 0.001%        |
| 28        | 4.965       | 1203          | 1205        | 1207         | rVB2     | 318            | 113           | 0.00%           | 0.001%        |
| 29        | 5.093       | 1227          | 1245        | 1287         | rBV2     | 1030305        | 2547909       | 100.00%         | 13.502%       |
| 30        | 5.473       | 1361          | 1363        | 1369         | rVB3     | 1103           | 795           | 0.03%           | 0.004%        |
| 31        | 5.582       | 1394          | 1397        | 1400         | rVB3     | 591            | 492           | 0.02%           | 0.003%        |
| 32        | 5.598       | 1400          | 1402        | 1404         | rBV      | 407            | 210           | 0.01%           | 0.001%        |
| 33        | 5.663       | 1406          | 1422        | 1452         | rBV      | 832895         | 1653788       | 64.91%          | 8.764%        |
| 34        | 5.946       | 1500          | 1510        | 1529         | rVB2     | 66683          | 131387        | 5.16%           | 0.696%        |

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |         |         |        |         |
|----|-------|------|------|------|------|---------|---------|--------|---------|
| 35 | 6.116 | 1544 | 1563 | 1593 | rBV  | 571078  | 1173202 | 46.05% | 6.217%  |
| 36 | 6.399 | 1649 | 1651 | 1653 | rBV  | 321     | 120     | 0.00%  | 0.001%  |
| 37 | 6.412 | 1653 | 1655 | 1657 | rBV2 | 397     | 262     | 0.01%  | 0.001%  |
| 38 | 6.428 | 1657 | 1660 | 1663 | rVV2 | 461     | 313     | 0.01%  | 0.002%  |
| 39 | 6.511 | 1683 | 1686 | 1687 | rBV  | 342     | 183     | 0.01%  | 0.001%  |
| 40 | 6.524 | 1688 | 1690 | 1694 | rVB2 | 522     | 388     | 0.02%  | 0.002%  |
| 41 | 6.585 | 1708 | 1709 | 1711 | rBV2 | 373     | 179     | 0.01%  | 0.001%  |
| 42 | 6.611 | 1714 | 1717 | 1719 | rBV2 | 304     | 200     | 0.01%  | 0.001%  |
| 43 | 6.666 | 1727 | 1734 | 1735 | rBV5 | 1926    | 2218    | 0.09%  | 0.012%  |
| 44 | 6.736 | 1754 | 1756 | 1760 | rVB3 | 554     | 321     | 0.01%  | 0.002%  |
| 45 | 6.753 | 1760 | 1761 | 1763 | rBV  | 340     | 135     | 0.01%  | 0.001%  |
| 46 | 6.785 | 1768 | 1771 | 1773 | rBV2 | 374     | 199     | 0.01%  | 0.001%  |
| 47 | 6.814 | 1778 | 1780 | 1783 | rBV  | 341     | 242     | 0.01%  | 0.001%  |
| 48 | 6.839 | 1786 | 1788 | 1790 | rBV  | 273     | 132     | 0.01%  | 0.001%  |
| 49 | 6.904 | 1805 | 1808 | 1812 | rVB2 | 425     | 276     | 0.01%  | 0.001%  |
| 50 | 6.923 | 1812 | 1814 | 1817 | rBV3 | 428     | 287     | 0.01%  | 0.002%  |
| 51 | 6.952 | 1820 | 1823 | 1830 | rVB5 | 801     | 881     | 0.03%  | 0.005%  |
| 52 | 6.984 | 1830 | 1833 | 1835 | rBV  | 710     | 312     | 0.01%  | 0.002%  |
| 53 | 7.029 | 1835 | 1847 | 1867 | rBV  | 282053  | 514337  | 20.19% | 2.726%  |
| 54 | 7.357 | 1936 | 1949 | 1968 | rBV  | 1099931 | 1899834 | 74.56% | 10.068% |
| 55 | 7.662 | 2029 | 2044 | 2068 | rBV  | 194636  | 343342  | 13.48% | 1.819%  |
| 56 | 7.836 | 2096 | 2098 | 2101 | rVB3 | 811     | 375     | 0.01%  | 0.002%  |
| 57 | 7.855 | 2101 | 2104 | 2105 | rBV2 | 769     | 474     | 0.02%  | 0.003%  |
| 58 | 8.016 | 2148 | 2154 | 2167 | rVB4 | 10339   | 17509   | 0.69%  | 0.093%  |
| 59 | 8.084 | 2172 | 2175 | 2177 | rBV2 | 764     | 493     | 0.02%  | 0.003%  |
| 60 | 8.138 | 2180 | 2192 | 2244 | rBV2 | 552142  | 1294333 | 50.80% | 6.859%  |
| 61 | 8.482 | 2296 | 2299 | 2304 | rBV5 | 952     | 913     | 0.04%  | 0.005%  |
| 62 | 8.746 | 2377 | 2381 | 2382 | rBV2 | 592     | 444     | 0.02%  | 0.002%  |
| 63 | 8.817 | 2401 | 2403 | 2405 | rVB2 | 1044    | 429     | 0.02%  | 0.002%  |
| 64 | 8.836 | 2405 | 2409 | 2411 | rBV2 | 540     | 340     | 0.01%  | 0.002%  |
| 65 | 8.894 | 2411 | 2427 | 2465 | rBV  | 1228417 | 2020695 | 79.31% | 10.708% |
| 66 | 9.167 | 2510 | 2512 | 2513 | rBV  | 757     | 327     | 0.01%  | 0.002%  |
| 67 | 9.225 | 2527 | 2530 | 2532 | rBV2 | 603     | 439     | 0.02%  | 0.002%  |
| 68 | 9.270 | 2542 | 2544 | 2547 | rVB2 | 807     | 502     | 0.02%  | 0.003%  |
| 69 | 9.286 | 2547 | 2549 | 2551 | rBV2 | 319     | 157     | 0.01%  | 0.001%  |
| 70 | 9.325 | 2559 | 2561 | 2563 | rBV  | 383     | 183     | 0.01%  | 0.001%  |
| 71 | 9.360 | 2570 | 2572 | 2578 | rVB3 | 907     | 675     | 0.03%  | 0.004%  |

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 Sampling : 1  
 Start Thrs: 0.2  
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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
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Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 72 | 9.396  | 2578 | 2583 | 2587 | rBV3 | 1021    | 986     | 0.04%  | 0.005% |
| 73 | 9.431  | 2591 | 2594 | 2596 | rBV2 | 741     | 456     | 0.02%  | 0.002% |
| 74 | 9.486  | 2609 | 2611 | 2614 | rVB  | 663     | 303     | 0.01%  | 0.002% |
| 75 | 9.547  | 2628 | 2630 | 2633 | rVB2 | 430     | 175     | 0.01%  | 0.001% |
| 76 | 9.662  | 2663 | 2666 | 2670 | rBV2 | 558     | 429     | 0.02%  | 0.002% |
| 77 | 9.678  | 2670 | 2671 | 2676 | rVB3 | 569     | 320     | 0.01%  | 0.002% |
| 78 | 9.698  | 2676 | 2677 | 2679 | rVB  | 191     | 48      | 0.00%  | 0.000% |
| 79 | 9.714  | 2679 | 2682 | 2683 | rBV  | 469     | 276     | 0.01%  | 0.001% |
| 80 | 9.743  | 2688 | 2691 | 2698 | rBV2 | 468     | 447     | 0.02%  | 0.002% |
| 81 | 9.775  | 2698 | 2701 | 2703 | rBV3 | 576     | 390     | 0.02%  | 0.002% |
| 82 | 9.855  | 2723 | 2726 | 2727 | rBV  | 265     | 147     | 0.01%  | 0.001% |
| 83 | 9.881  | 2731 | 2734 | 2736 | rVV3 | 442     | 230     | 0.01%  | 0.001% |
| 84 | 9.955  | 2753 | 2757 | 2758 | rBV2 | 729     | 610     | 0.02%  | 0.003% |
| 85 | 10.026 | 2774 | 2779 | 2782 | rBV2 | 785     | 813     | 0.03%  | 0.004% |
| 86 | 10.071 | 2790 | 2793 | 2794 | rBV  | 432     | 243     | 0.01%  | 0.001% |
| 87 | 10.167 | 2820 | 2823 | 2825 | rBV3 | 514     | 250     | 0.01%  | 0.001% |
| 88 | 10.257 | 2838 | 2851 | 2876 | rVB  | 728476  | 1140496 | 44.76% | 6.044% |
| 89 | 10.582 | 2948 | 2952 | 2956 | rBV4 | 1110    | 1057    | 0.04%  | 0.006% |
| 90 | 10.759 | 3005 | 3007 | 3009 | rBV  | 341     | 153     | 0.01%  | 0.001% |
| 91 | 10.794 | 3016 | 3018 | 3021 | rBV2 | 642     | 380     | 0.01%  | 0.002% |
| 92 | 11.158 | 3128 | 3131 | 3134 | rBV2 | 598     | 498     | 0.02%  | 0.003% |
| 93 | 11.199 | 3141 | 3144 | 3145 | rBV  | 881     | 538     | 0.02%  | 0.003% |
| 94 | 11.293 | 3160 | 3173 | 3200 | rBV  | 1000323 | 1566400 | 61.48% | 8.301% |
| 95 | 11.669 | 3277 | 3290 | 3311 | rBV  | 1046958 | 1656969 | 65.03% | 8.781% |

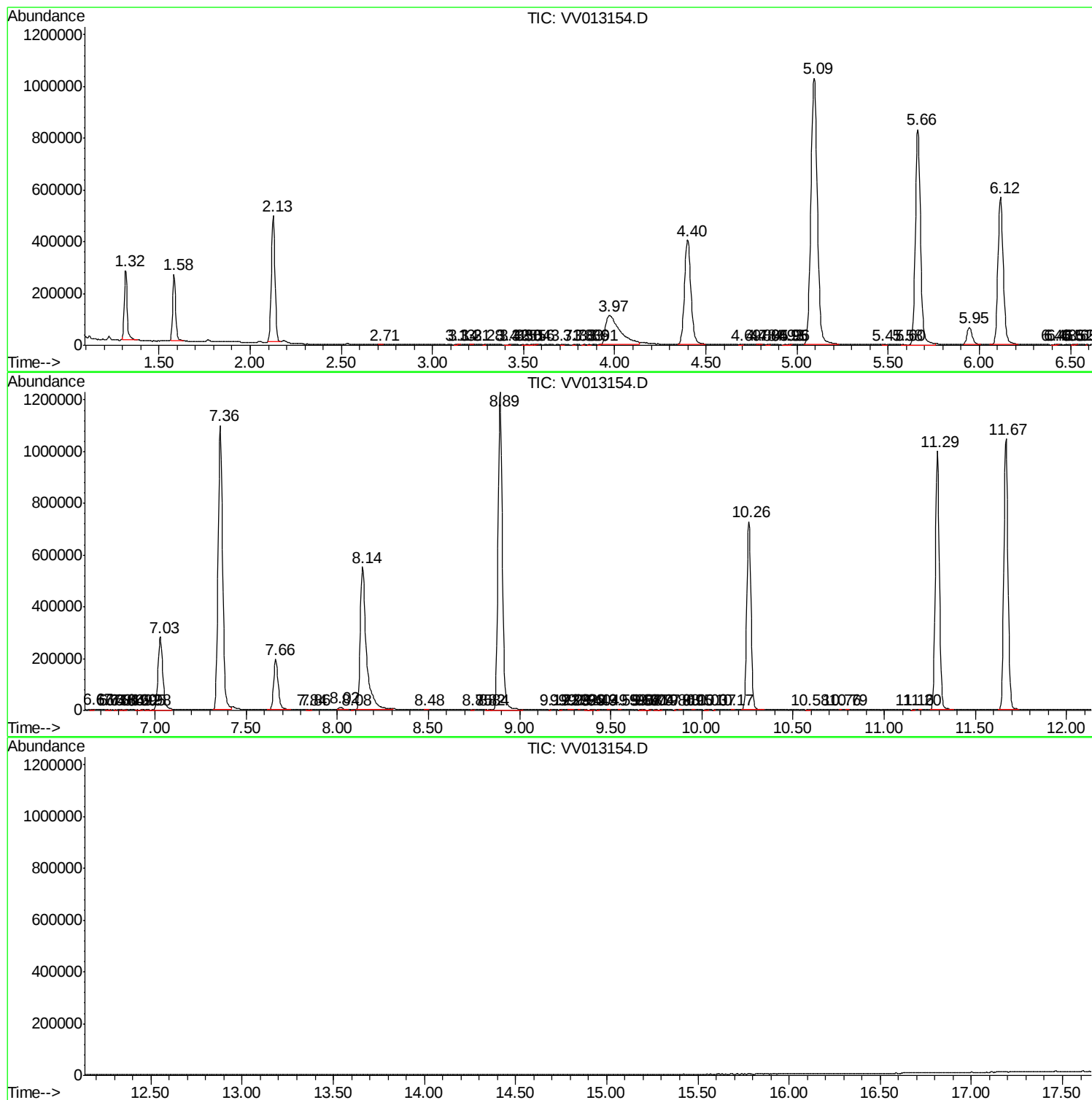
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Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV0101419\  
Data File : VV013154.D  
Acq On : 14 Oct 2019 20:30  
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Sample : K5347-14 50X  
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ALS Vial : 25 Sample Multiplier: 1

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MSVOA\_V  
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV101419\  
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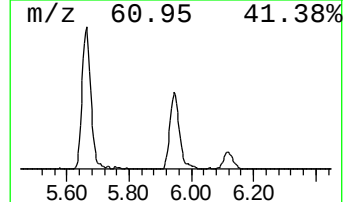
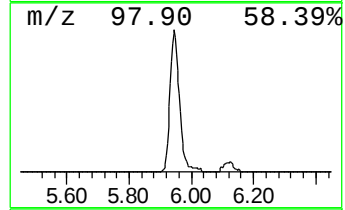
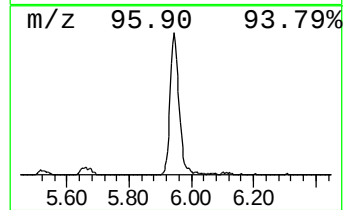
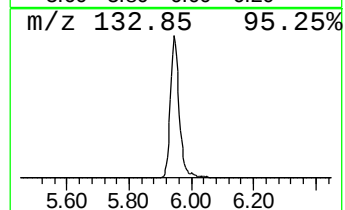
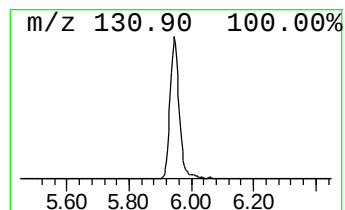
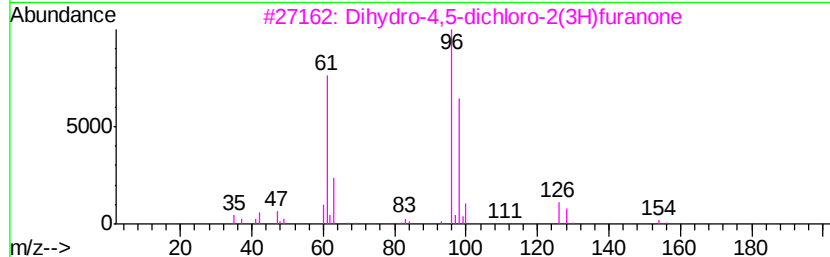
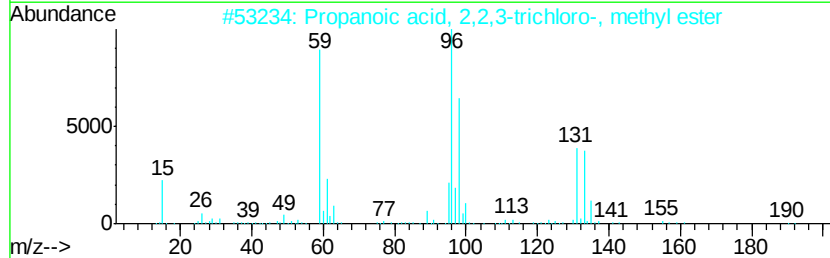
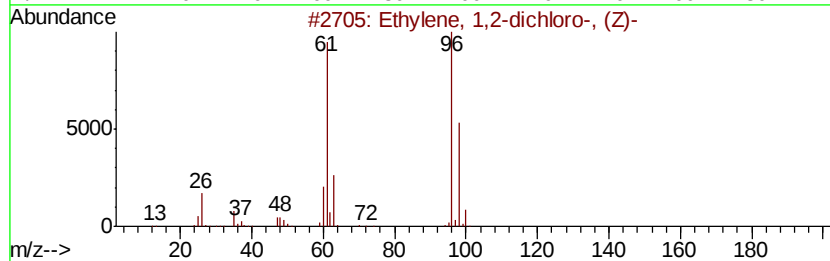
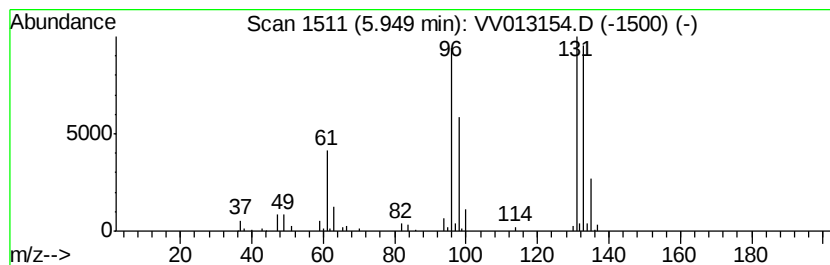
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM101119WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 unknown-01 Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 5.95 | 3.97 ug/L | 131387 | 1,4-Difluorobenzene | 5.66 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 38   |
| 2    |    | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 37   |
| 3    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 10   |
| 4    |    | Benzonitrile, 4-methoxy-            | 133 | C8H7NO    | 000874-90-8 | 9    |
| 5    |    | Furfural                            | 96  | C5H4O2    | 000098-01-1 | 9    |



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| TIC Top Hit name | RT   | EstConc | Units | Response | --Internal Standard-- |      |         |      |
|------------------|------|---------|-------|----------|-----------------------|------|---------|------|
|                  |      |         |       |          | #                     | RT   | Resp    | Conc |
| unknown-01       | 5.95 | 4.0     | ug/L  | 131387   | 1                     | 5.66 | 1653790 | 50.0 |