

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV082721\  
 Data File : VV021970.D  
 Acq On : 27 Aug 2021 12:51  
 Operator : SY/MD  
 Sample : VV0827WBL01  
 Misc : 5.0mL/MSVOA\_V/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK242

Integration Parameters: LSCINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
 Title : VOC Analysis

Signal : TIC: VV021970.D\data.ms

| 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         | 1.307       | 76            | 83          | 98           | rVB      | 198927         | 200425        | 14.53%          | 1.882%        |
| 2         | 1.564       | 156           | 163         | 179          | rVB      | 154817         | 181438        | 13.15%          | 1.704%        |
| 3         | 2.108       | 322           | 332         | 361          | rVB      | 311678         | 469445        | 34.04%          | 4.408%        |
| 4         | 2.648       | 498           | 500         | 503          | rBV      | 242            | 197           | 0.01%           | 0.002%        |
| 5         | 2.712       | 518           | 520         | 521          | rBV2     | 523            | 215           | 0.02%           | 0.002%        |
| 6         | 2.799       | 544           | 547         | 550          | rVB3     | 554            | 336           | 0.02%           | 0.003%        |
| 7         | 2.851       | 560           | 563         | 571          | rBV2     | 346            | 322           | 0.02%           | 0.003%        |
| 8         | 2.908       | 576           | 581         | 583          | rBV2     | 295            | 237           | 0.02%           | 0.002%        |
| 9         | 3.153       | 654           | 657         | 664          | rBV2     | 328            | 265           | 0.02%           | 0.002%        |
| 10        | 3.217       | 674           | 677         | 681          | rBV2     | 344            | 181           | 0.01%           | 0.002%        |
| 11        | 3.365       | 719           | 723         | 726          | rBV2     | 272            | 204           | 0.01%           | 0.002%        |
| 12        | 3.500       | 763           | 765         | 771          | rVV2     | 332            | 188           | 0.01%           | 0.002%        |
| 13        | 3.539       | 773           | 777         | 781          | rVB2     | 289            | 222           | 0.02%           | 0.002%        |
| 14        | 3.587       | 790           | 792         | 795          | rVB2     | 253            | 140           | 0.01%           | 0.001%        |
| 15        | 3.670       | 816           | 818         | 823          | rVB2     | 430            | 236           | 0.02%           | 0.002%        |
| 16        | 3.744       | 837           | 841         | 842          | rBV2     | 235            | 141           | 0.01%           | 0.001%        |
| 17        | 3.838       | 867           | 870         | 873          | rBV2     | 275            | 205           | 0.01%           | 0.002%        |
| 18        | 3.876       | 873           | 882         | 914          | rBV      | 112651         | 297698        | 21.58%          | 2.795%        |
| 19        | 4.352       | 1013          | 1030        | 1061         | rBV      | 204340         | 534639        | 38.76%          | 5.020%        |
| 20        | 4.664       | 1125          | 1127        | 1128         | rBV      | 497            | 205           | 0.01%           | 0.002%        |
| 21        | 4.770       | 1157          | 1160        | 1163         | rBV2     | 234            | 144           | 0.01%           | 0.001%        |
| 22        | 4.822       | 1170          | 1176        | 1182         | rBV2     | 508            | 489           | 0.04%           | 0.005%        |
| 23        | 4.915       | 1203          | 1205        | 1208         | rVV      | 295            | 151           | 0.01%           | 0.001%        |
| 24        | 4.976       | 1222          | 1224        | 1226         | rBV      | 305            | 140           | 0.01%           | 0.001%        |
| 25        | 5.047       | 1229          | 1246        | 1276         | rBV2     | 540745         | 1379246       | 100.00%         | 12.951%       |
| 26        | 5.387       | 1348          | 1352        | 1354         | rBV3     | 308            | 236           | 0.02%           | 0.002%        |
| 27        | 5.416       | 1358          | 1361        | 1362         | rBV3     | 451            | 237           | 0.02%           | 0.002%        |
| 28        | 5.490       | 1382          | 1384        | 1387         | rBV3     | 365            | 166           | 0.01%           | 0.002%        |
| 29        | 5.522       | 1391          | 1394        | 1396         | rBV      | 330            | 241           | 0.02%           | 0.002%        |
| 30        | 5.561       | 1403          | 1406        | 1407         | rBV      | 380            | 209           | 0.02%           | 0.002%        |
| 31        | 5.619       | 1412          | 1424        | 1452         | rBV      | 408107         | 821697        | 59.58%          | 7.716%        |
| 32        | 5.908       | 1504          | 1514        | 1534         | rBV      | 37367          | 75485         | 5.47%           | 0.709%        |
| 33        | 6.072       | 1551          | 1565        | 1599         | rBV      | 300021         | 613216        | 44.46%          | 5.758%        |
| 34        | 6.294       | 1632          | 1634        | 1637         | rBV2     | 293            | 147           | 0.01%           | 0.001%        |
| 35        | 6.336       | 1644          | 1647        | 1650         | rBV2     | 499            | 372           | 0.03%           | 0.003%        |
| 36        | 6.378       | 1657          | 1660        | 1662         | rBV2     | 372            | 254           | 0.02%           | 0.002%        |

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Integrator: RTE

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |         |        |         |
|----|--------|------|------|------|------|--------|---------|--------|---------|
| 37 | 6.426  | 1673 | 1675 | 1679 | rVB  | 416    | 208     | 0.02%  | 0.002%  |
| 38 | 6.558  | 1713 | 1716 | 1722 | rVB3 | 379    | 366     | 0.03%  | 0.003%  |
| 39 | 6.600  | 1726 | 1729 | 1734 | rBV2 | 240    | 169     | 0.01%  | 0.002%  |
| 40 | 6.664  | 1744 | 1749 | 1753 | rBV4 | 355    | 442     | 0.03%  | 0.004%  |
| 41 | 6.702  | 1759 | 1761 | 1765 | rVB  | 321    | 150     | 0.01%  | 0.001%  |
| 42 | 6.821  | 1795 | 1798 | 1803 | rVB  | 419    | 282     | 0.02%  | 0.003%  |
| 43 | 6.844  | 1803 | 1805 | 1808 | rBV3 | 348    | 210     | 0.02%  | 0.002%  |
| 44 | 6.883  | 1814 | 1817 | 1820 | rVB2 | 295    | 177     | 0.01%  | 0.002%  |
| 45 | 6.989  | 1837 | 1850 | 1872 | rBV  | 169089 | 312127  | 22.63% | 2.931%  |
| 46 | 7.320  | 1939 | 1953 | 1971 | rBV  | 661833 | 1156245 | 83.83% | 10.857% |
| 47 | 7.625  | 2038 | 2048 | 2071 | rBV  | 115551 | 205645  | 14.91% | 1.931%  |
| 48 | 7.895  | 2130 | 2132 | 2134 | rBV  | 394    | 198     | 0.01%  | 0.002%  |
| 49 | 7.950  | 2146 | 2149 | 2150 | rBV  | 505    | 248     | 0.02%  | 0.002%  |
| 50 | 7.985  | 2154 | 2160 | 2166 | rBV3 | 945    | 1261    | 0.09%  | 0.012%  |
| 51 | 8.050  | 2176 | 2180 | 2182 | rBV2 | 288    | 257     | 0.02%  | 0.002%  |
| 52 | 8.091  | 2183 | 2193 | 2232 | rBV2 | 315991 | 634604  | 46.01% | 5.959%  |
| 53 | 8.458  | 2304 | 2307 | 2310 | rVB2 | 598    | 369     | 0.03%  | 0.003%  |
| 54 | 8.554  | 2332 | 2337 | 2338 | rBV2 | 246    | 246     | 0.02%  | 0.002%  |
| 55 | 8.612  | 2349 | 2355 | 2358 | rBV2 | 744    | 770     | 0.06%  | 0.007%  |
| 56 | 8.699  | 2379 | 2382 | 2388 | rBV2 | 330    | 317     | 0.02%  | 0.003%  |
| 57 | 8.812  | 2414 | 2417 | 2419 | rVB2 | 249    | 169     | 0.01%  | 0.002%  |
| 58 | 8.854  | 2419 | 2430 | 2456 | rBV  | 609438 | 1002448 | 72.68% | 9.413%  |
| 59 | 9.140  | 2512 | 2519 | 2520 | rBV5 | 851    | 808     | 0.06%  | 0.008%  |
| 60 | 9.153  | 2521 | 2523 | 2526 | rVB2 | 1534   | 801     | 0.06%  | 0.008%  |
| 61 | 9.236  | 2546 | 2549 | 2552 | rBV2 | 273    | 180     | 0.01%  | 0.002%  |
| 62 | 9.265  | 2552 | 2558 | 2559 | rBV2 | 294    | 235     | 0.02%  | 0.002%  |
| 63 | 9.397  | 2596 | 2599 | 2601 | rVB3 | 419    | 203     | 0.01%  | 0.002%  |
| 64 | 9.554  | 2643 | 2648 | 2651 | rBV3 | 621    | 599     | 0.04%  | 0.006%  |
| 65 | 9.571  | 2651 | 2653 | 2656 | rVV2 | 677    | 391     | 0.03%  | 0.004%  |
| 66 | 9.648  | 2673 | 2677 | 2681 | rVB  | 303    | 213     | 0.02%  | 0.002%  |
| 67 | 9.725  | 2699 | 2701 | 2705 | rBV  | 351    | 244     | 0.02%  | 0.002%  |
| 68 | 9.808  | 2724 | 2727 | 2732 | rVB  | 355    | 192     | 0.01%  | 0.002%  |
| 69 | 9.908  | 2753 | 2758 | 2762 | rBV2 | 203    | 211     | 0.02%  | 0.002%  |
| 70 | 9.931  | 2762 | 2765 | 2767 | rBV2 | 728    | 477     | 0.03%  | 0.004%  |
| 71 | 10.066 | 2804 | 2807 | 2813 | rVB2 | 236    | 244     | 0.02%  | 0.002%  |
| 72 | 10.101 | 2814 | 2818 | 2820 | rBV  | 402    | 267     | 0.02%  | 0.003%  |
| 73 | 10.130 | 2820 | 2827 | 2839 | rVV3 | 3479   | 5631    | 0.41%  | 0.053%  |
| 74 | 10.220 | 2843 | 2855 | 2878 | rBV  | 377502 | 606508  | 43.97% | 5.695%  |
| 75 | 10.387 | 2905 | 2907 | 2911 | rVB2 | 618    | 301     | 0.02%  | 0.003%  |
| 76 | 10.429 | 2918 | 2920 | 2922 | rBV2 | 314    | 187     | 0.01%  | 0.002%  |

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 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 VBLK242

Integration Parameters: LSCINT.P

Integrator: RTE

Smoother: OFF

Filtering: 5

Sampling : 1

Min Area: 0 % of largest Peak

Start Thrs: 0.2

Max Peaks: 100

Stop Thrs: 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |       |        |         |        |         |
|-----|--------|------|------|------|-------|--------|---------|--------|---------|
| 77  | 10.545 | 2949 | 2956 | 2958 | rBV3  | 831    | 992     | 0.07%  | 0.009%  |
| 78  | 10.821 | 3038 | 3042 | 3046 | rVV3  | 442    | 502     | 0.04%  | 0.005%  |
| 79  | 10.844 | 3046 | 3049 | 3053 | rVB   | 361    | 286     | 0.02%  | 0.003%  |
| 80  | 10.921 | 3062 | 3073 | 3086 | rBV10 | 4144   | 7060    | 0.51%  | 0.066%  |
| 81  | 11.040 | 3102 | 3110 | 3114 | rBV4  | 818    | 1147    | 0.08%  | 0.011%  |
| 82  | 11.143 | 3138 | 3142 | 3144 | rBV4  | 1665   | 1396    | 0.10%  | 0.013%  |
| 83  | 11.252 | 3164 | 3176 | 3199 | rBV   | 656881 | 1038199 | 75.27% | 9.749%  |
| 84  | 11.432 | 3227 | 3232 | 3240 | rVB6  | 2406   | 3465    | 0.25%  | 0.033%  |
| 85  | 11.570 | 3274 | 3275 | 3276 | rBV   | 410    | 158     | 0.01%  | 0.001%  |
| 86  | 11.625 | 3280 | 3292 | 3312 | rVV   | 666096 | 1071960 | 77.72% | 10.066% |
| 87  | 11.799 | 3338 | 3346 | 3353 | rBV7  | 1075   | 1595    | 0.12%  | 0.015%  |
| 88  | 11.911 | 3379 | 3381 | 3384 | rBV2  | 375    | 151     | 0.01%  | 0.001%  |
| 89  | 11.966 | 3396 | 3398 | 3400 | rBV   | 387    | 184     | 0.01%  | 0.002%  |
| 90  | 12.085 | 3432 | 3435 | 3437 | rBV   | 409    | 236     | 0.02%  | 0.002%  |
| 91  | 12.152 | 3454 | 3456 | 3458 | rBV   | 363    | 179     | 0.01%  | 0.002%  |
| 92  | 12.275 | 3493 | 3494 | 3497 | rBV   | 259    | 145     | 0.01%  | 0.001%  |
| 93  | 12.442 | 3543 | 3546 | 3549 | rBV   | 328    | 166     | 0.01%  | 0.002%  |
| 94  | 12.599 | 3592 | 3595 | 3604 | rBV5  | 718    | 825     | 0.06%  | 0.008%  |
| 95  | 12.869 | 3677 | 3679 | 3681 | rBV2  | 352    | 172     | 0.01%  | 0.002%  |
| 96  | 12.947 | 3701 | 3703 | 3706 | rBV   | 314    | 154     | 0.01%  | 0.001%  |
| 97  | 13.021 | 3723 | 3726 | 3729 | rBV2  | 375    | 266     | 0.02%  | 0.002%  |
| 98  | 13.040 | 3730 | 3732 | 3738 | rVB   | 391    | 266     | 0.02%  | 0.002%  |
| 99  | 13.516 | 3872 | 3880 | 3901 | rBV   | 3321   | 5930    | 0.43%  | 0.056%  |
| 100 | 14.111 | 4063 | 4065 | 4067 | rBV3  | 388    | 170     | 0.01%  | 0.002%  |

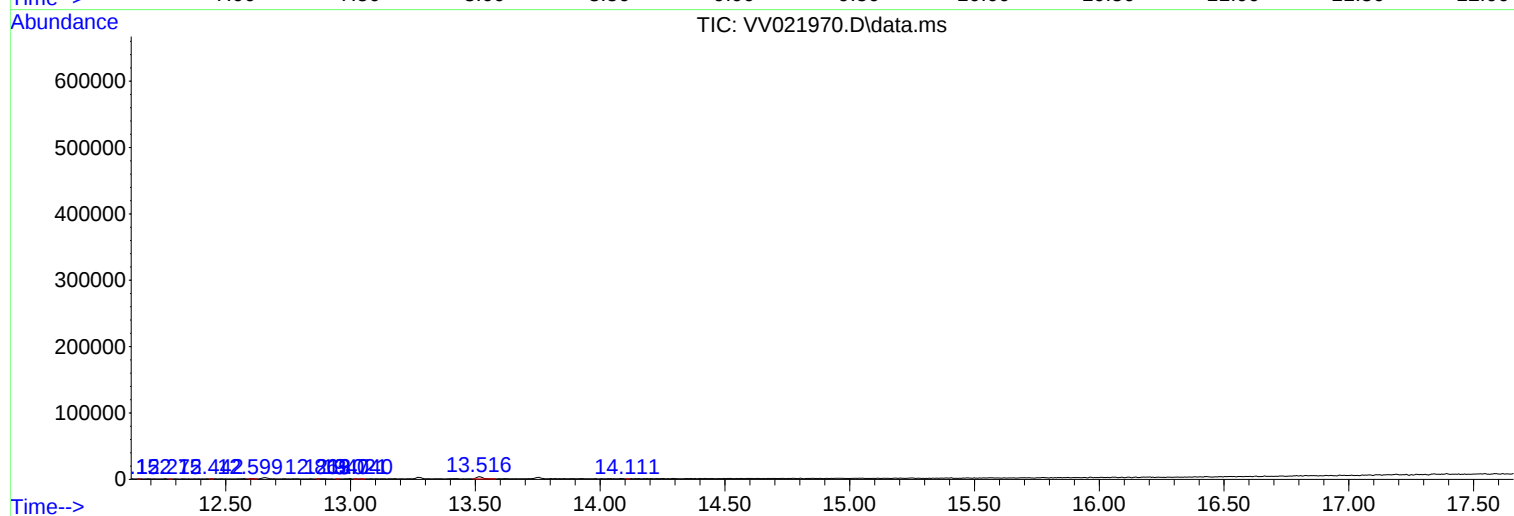
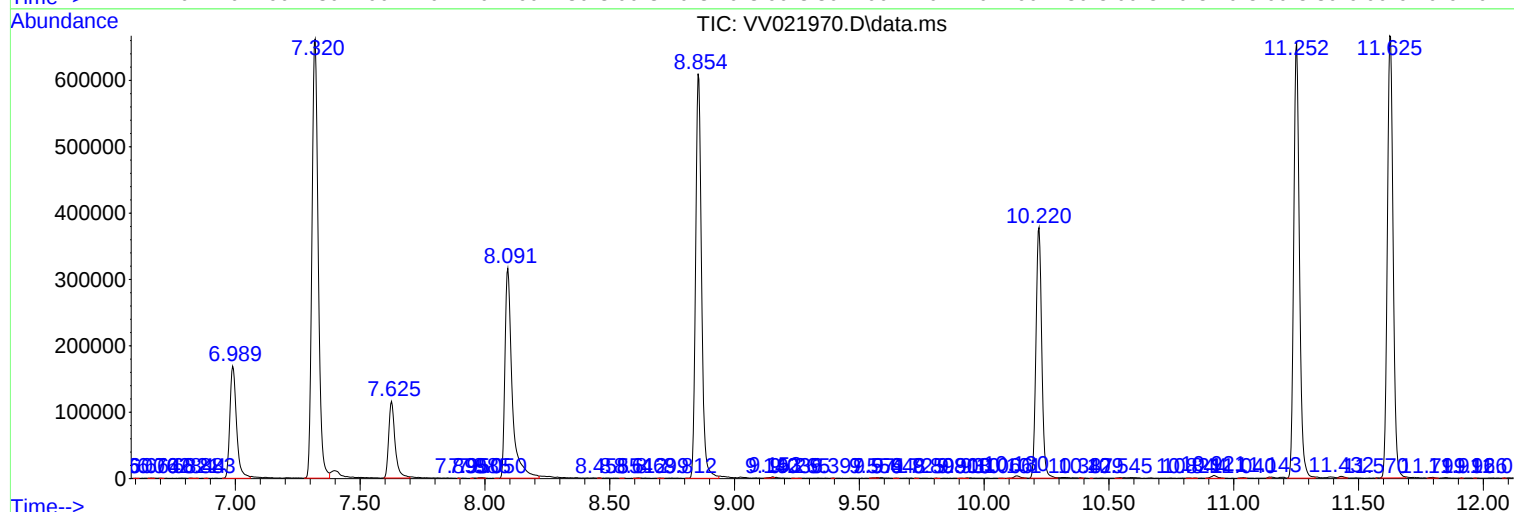
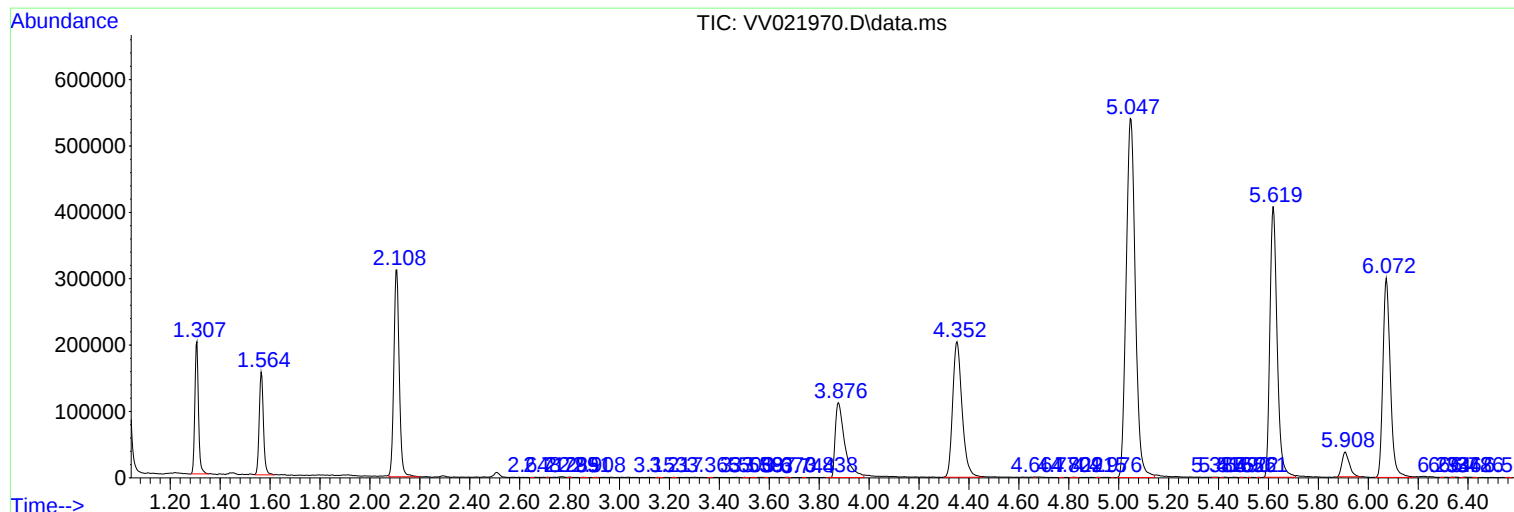
Sum of corrected areas: 10649573

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VBLK242

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVLM082721WMA.M  
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P



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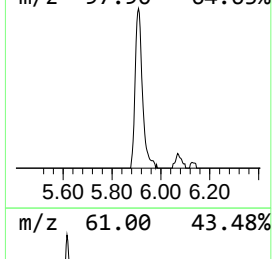
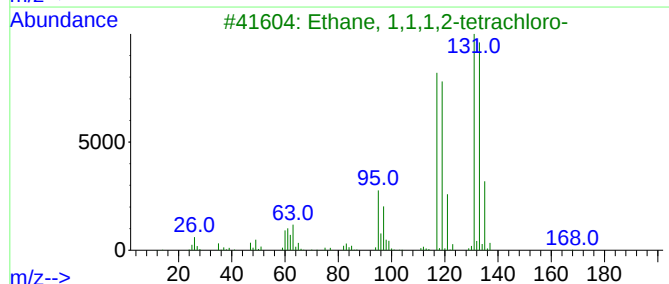
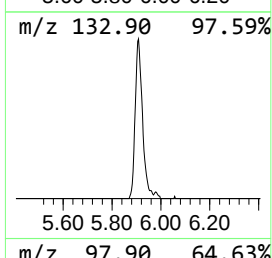
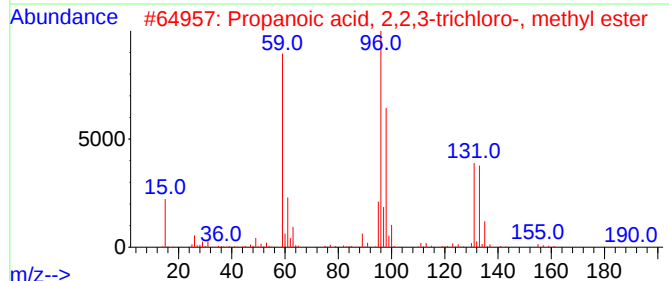
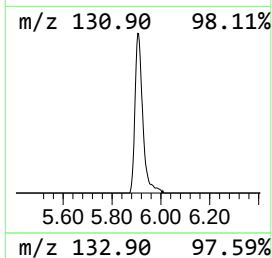
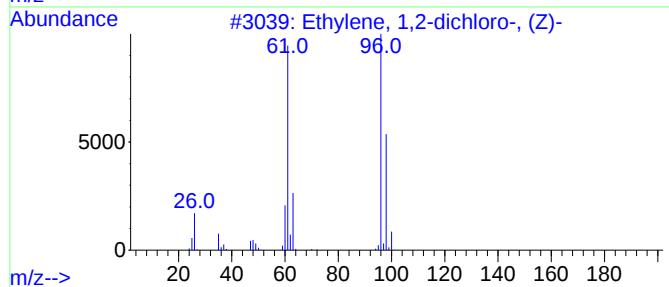
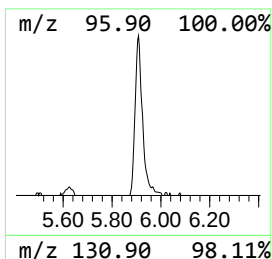
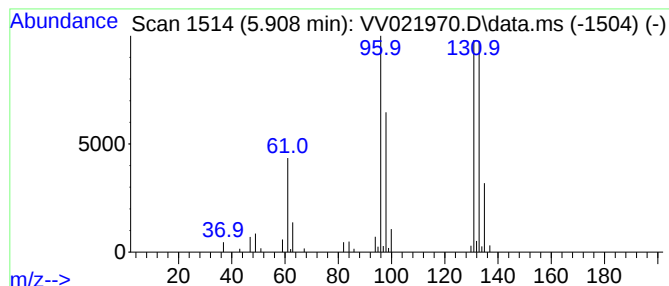
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TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 unknown-01 Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 5.908 | 4.59 ug/L | 75485 | 1,4-Difluorobenzene | 5.619 |

| Hit# | of | 5 | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|---|-------------------------------------|-----|-----------|-------------|------|
| 1    |    |   | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 38   |
| 2    |    |   | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 38   |
| 3    |    |   | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 37   |
| 4    |    |   | 4-Chloro-3-fluoropyridine           | 131 | C5H3ClFN  | 002546-56-7 | 32   |
| 5    |    |   | 2-Chloro-5-methylthiazole           | 133 | C4H4ClNS  | 033342-65-3 | 27   |



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TIC Integration Parameters: LSCINT.P

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| unknown-01       | 5.908 | 4.6     | ug/L  | 75485    | 1                     | 5.619 | 821697 | 50.0 |