

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW081618\  
 Data File : VW004690.D  
 Acq On : 15 Aug 2018 11:15  
 Operator : SY/AP  
 Sample : J4450-18  
 Misc : 5.75G/10ML/MSVOA W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 GAB15

## 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\_W\METHOD\SOM2WLM081418S.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         | 1.752       | 18            | 27          | 30           | rBV      | 29048          | 64953         | 1.82%           | 0.242%        |
| 2         | 1.837       | 30            | 41          | 57           | rVB      | 187985         | 718221        | 20.09%          | 2.675%        |
| 3         | 2.154       | 91            | 93          | 95           | rBV      | 3266           | 3034          | 0.08%           | 0.011%        |
| 4         | 2.361       | 120           | 127         | 139          | rBV      | 255225         | 559839        | 15.66%          | 2.085%        |
| 5         | 2.898       | 208           | 215         | 233          | rVB      | 178262         | 490836        | 13.73%          | 1.828%        |
| 6         | 4.013       | 387           | 398         | 412          | rBV      | 415666         | 1303409       | 36.46%          | 4.855%        |
| 7         | 4.141       | 414           | 419         | 437          | rVB2     | 36564          | 123605        | 3.46%           | 0.460%        |
| 8         | 4.629       | 495           | 499         | 500          | rBV3     | 907            | 912           | 0.03%           | 0.003%        |
| 9         | 4.721       | 512           | 514         | 516          | rBV3     | 673            | 691           | 0.02%           | 0.003%        |
| 10        | 4.769       | 521           | 522         | 525          | rBV2     | 705            | 787           | 0.02%           | 0.003%        |
| 11        | 4.849       | 531           | 535         | 536          | rBV3     | 1151           | 1816          | 0.05%           | 0.007%        |
| 12        | 4.916       | 536           | 546         | 555          | rVV2     | 16553          | 63446         | 1.77%           | 0.236%        |
| 13        | 5.007       | 555           | 561         | 573          | rVB9     | 6187           | 21525         | 0.60%           | 0.080%        |
| 14        | 5.422       | 624           | 629         | 632          | rBV4     | 1335           | 2173          | 0.06%           | 0.008%        |
| 15        | 5.556       | 649           | 651         | 654          | rVB3     | 748            | 950           | 0.03%           | 0.004%        |
| 16        | 5.580       | 654           | 655         | 660          | rBV4     | 793            | 1193          | 0.03%           | 0.004%        |
| 17        | 5.733       | 675           | 680         | 682          | rBV4     | 456            | 764           | 0.02%           | 0.003%        |
| 18        | 5.781       | 684           | 688         | 689          | rBV2     | 805            | 1031          | 0.03%           | 0.004%        |
| 19        | 5.916       | 706           | 710         | 711          | rBV2     | 1407           | 1517          | 0.04%           | 0.006%        |
| 20        | 5.934       | 711           | 713         | 714          | rBV2     | 1056           | 1092          | 0.03%           | 0.004%        |
| 21        | 6.598       | 818           | 822         | 824          | rBV4     | 691            | 1215          | 0.03%           | 0.005%        |
| 22        | 6.921       | 872           | 875         | 878          | rBV4     | 642            | 816           | 0.02%           | 0.003%        |
| 23        | 6.958       | 878           | 881         | 884          | rBV3     | 463            | 694           | 0.02%           | 0.003%        |
| 24        | 6.989       | 884           | 886         | 891          | rVB4     | 894            | 1190          | 0.03%           | 0.004%        |
| 25        | 7.092       | 891           | 903         | 927          | rBV4     | 104365         | 418588        | 11.71%          | 1.559%        |
| 26        | 7.318       | 938           | 940         | 944          | rVB4     | 773            | 937           | 0.03%           | 0.003%        |
| 27        | 7.415       | 954           | 956         | 960          | rBV3     | 805            | 853           | 0.02%           | 0.003%        |
| 28        | 7.464       | 960           | 964         | 966          | rVB4     | 769            | 1153          | 0.03%           | 0.004%        |
| 29        | 7.531       | 973           | 975         | 976          | rBV2     | 801            | 754           | 0.02%           | 0.003%        |
| 30        | 7.677       | 983           | 999         | 1013         | rBV2     | 468138         | 1405569       | 39.32%          | 5.236%        |
| 31        | 7.946       | 1037          | 1043        | 1045         | rBV4     | 1203           | 1903          | 0.05%           | 0.007%        |
| 32        | 8.068       | 1059          | 1063        | 1069         | rVB4     | 1055           | 2076          | 0.06%           | 0.008%        |
| 33        | 8.281       | 1086          | 1098        | 1114         | rBV2     | 1160053        | 3575107       | 100.00%         | 13.317%       |
| 34        | 8.488       | 1129          | 1132        | 1133         | rBV2     | 1003           | 984           | 0.03%           | 0.004%        |

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If leading or trailing edge < 100 prefer < Baseline drop else tangent >  
 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M  
 Title : VOC Analysis

|    |        |      |      |      |      |         |         |        |         |
|----|--------|------|------|------|------|---------|---------|--------|---------|
| 35 | 8.561  | 1136 | 1144 | 1150 | rBV7 | 2328    | 6158    | 0.17%  | 0.023%  |
| 36 | 8.616  | 1150 | 1153 | 1154 | rBV2 | 765     | 790     | 0.02%  | 0.003%  |
| 37 | 8.696  | 1162 | 1166 | 1174 | rBV6 | 1373    | 3729    | 0.10%  | 0.014%  |
| 38 | 8.848  | 1182 | 1191 | 1202 | rBV  | 1069320 | 2116366 | 59.20% | 7.883%  |
| 39 | 8.970  | 1209 | 1211 | 1214 | rBV4 | 1091    | 1000    | 0.03%  | 0.004%  |
| 40 | 9.080  | 1218 | 1229 | 1243 | rBV  | 735402  | 1495634 | 41.83% | 5.571%  |
| 41 | 9.281  | 1251 | 1262 | 1270 | rBV  | 766888  | 1563069 | 43.72% | 5.822%  |
| 42 | 9.439  | 1287 | 1288 | 1293 | rVB4 | 924     | 1137    | 0.03%  | 0.004%  |
| 43 | 9.476  | 1293 | 1294 | 1297 | rVV2 | 751     | 784     | 0.02%  | 0.003%  |
| 44 | 9.665  | 1318 | 1325 | 1330 | rVB7 | 4354    | 9382    | 0.26%  | 0.035%  |
| 45 | 9.714  | 1330 | 1333 | 1336 | rBV4 | 808     | 1434    | 0.04%  | 0.005%  |
| 46 | 9.921  | 1365 | 1367 | 1371 | rVB5 | 618     | 801     | 0.02%  | 0.003%  |
| 47 | 10.037 | 1378 | 1386 | 1396 | rBV  | 390610  | 707347  | 19.79% | 2.635%  |
| 48 | 10.128 | 1397 | 1401 | 1405 | rVB5 | 1861    | 2889    | 0.08%  | 0.011%  |
| 49 | 10.220 | 1411 | 1416 | 1419 | rBV7 | 1082    | 2000    | 0.06%  | 0.007%  |
| 50 | 10.329 | 1425 | 1434 | 1441 | rBV  | 1639853 | 2803893 | 78.43% | 10.444% |
| 51 | 10.390 | 1441 | 1444 | 1455 | rVB  | 59721   | 104989  | 2.94%  | 0.391%  |
| 52 | 10.512 | 1462 | 1464 | 1468 | rVB4 | 1342    | 1587    | 0.04%  | 0.006%  |
| 53 | 10.579 | 1468 | 1475 | 1484 | rBV  | 271304  | 479818  | 13.42% | 1.787%  |
| 54 | 10.707 | 1490 | 1496 | 1503 | rBV2 | 20022   | 37060   | 1.04%  | 0.138%  |
| 55 | 10.787 | 1507 | 1509 | 1510 | rBV2 | 891     | 694     | 0.02%  | 0.003%  |
| 56 | 10.872 | 1518 | 1523 | 1526 | rVB6 | 3747    | 6477    | 0.18%  | 0.024%  |
| 57 | 10.933 | 1526 | 1533 | 1550 | rBV2 | 473615  | 867402  | 24.26% | 3.231%  |
| 58 | 11.488 | 1621 | 1624 | 1626 | rBV4 | 482     | 717     | 0.02%  | 0.003%  |
| 59 | 11.634 | 1640 | 1648 | 1659 | rBV  | 1613079 | 2716505 | 75.98% | 10.119% |
| 60 | 11.738 | 1661 | 1665 | 1670 | rVB4 | 4854    | 8019    | 0.22%  | 0.030%  |
| 61 | 11.841 | 1677 | 1682 | 1689 | rVB2 | 10421   | 18690   | 0.52%  | 0.070%  |
| 62 | 12.043 | 1709 | 1715 | 1720 | rVV2 | 3650    | 5723    | 0.16%  | 0.021%  |
| 63 | 12.183 | 1732 | 1738 | 1745 | rVB6 | 8895    | 19402   | 0.54%  | 0.072%  |
| 64 | 12.244 | 1745 | 1748 | 1749 | rBV3 | 989     | 1024    | 0.03%  | 0.004%  |
| 65 | 12.360 | 1763 | 1767 | 1771 | rVV4 | 674     | 1139    | 0.03%  | 0.004%  |
| 66 | 12.475 | 1782 | 1786 | 1790 | rVV5 | 2537    | 3840    | 0.11%  | 0.014%  |
| 67 | 12.616 | 1804 | 1809 | 1816 | rVB2 | 16495   | 27372   | 0.77%  | 0.102%  |
| 68 | 12.701 | 1818 | 1823 | 1832 | rBV  | 27237   | 48741   | 1.36%  | 0.182%  |
| 69 | 12.774 | 1832 | 1835 | 1838 | rVB5 | 1205    | 1453    | 0.04%  | 0.005%  |
| 70 | 12.878 | 1846 | 1852 | 1856 | rBV3 | 2487    | 4775    | 0.13%  | 0.018%  |
| 71 | 12.945 | 1859 | 1863 | 1868 | rVB4 | 3428    | 5771    | 0.16%  | 0.021%  |

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Method : Z:\VOASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M  
 Title : VOC Analysis

|     |        |      |      |      |       |         |         |        |        |
|-----|--------|------|------|------|-------|---------|---------|--------|--------|
| 72  | 13.024 | 1873 | 1876 | 1878 | rBV3  | 674     | 684     | 0.02%  | 0.003% |
| 73  | 13.280 | 1911 | 1918 | 1928 | rVB8  | 7805    | 22309   | 0.62%  | 0.083% |
| 74  | 13.353 | 1928 | 1930 | 1932 | rVB2  | 1096    | 698     | 0.02%  | 0.003% |
| 75  | 13.408 | 1935 | 1939 | 1942 | rBV5  | 1243    | 1596    | 0.04%  | 0.006% |
| 76  | 13.506 | 1948 | 1955 | 1958 | rBV9  | 3827    | 7726    | 0.22%  | 0.029% |
| 77  | 13.567 | 1958 | 1965 | 1975 | rVV   | 1512754 | 2383049 | 66.66% | 8.877% |
| 78  | 13.658 | 1975 | 1980 | 1988 | rVB2  | 13611   | 23277   | 0.65%  | 0.087% |
| 79  | 13.762 | 1988 | 1997 | 2000 | rBV10 | 3203    | 7584    | 0.21%  | 0.028% |
| 80  | 13.859 | 2006 | 2013 | 2023 | rBV   | 1439552 | 2419547 | 67.68% | 9.013% |
| 81  | 13.945 | 2025 | 2027 | 2033 | rVB3  | 4049    | 6639    | 0.19%  | 0.025% |
| 82  | 14.024 | 2037 | 2040 | 2041 | rBV4  | 3423    | 3407    | 0.10%  | 0.013% |
| 83  | 14.085 | 2045 | 2050 | 2060 | rVB2  | 12940   | 26987   | 0.75%  | 0.101% |
| 84  | 14.219 | 2068 | 2072 | 2076 | rBV6  | 2489    | 5013    | 0.14%  | 0.019% |
| 85  | 14.341 | 2087 | 2092 | 2097 | rVB6  | 4762    | 8863    | 0.25%  | 0.033% |
| 86  | 14.469 | 2111 | 2113 | 2118 | rVB5  | 1915    | 1488    | 0.04%  | 0.006% |
| 87  | 14.505 | 2118 | 2119 | 2121 | rVB2  | 1335    | 962     | 0.03%  | 0.004% |
| 88  | 14.634 | 2135 | 2140 | 2146 | rBV7  | 4826    | 9695    | 0.27%  | 0.036% |
| 89  | 14.737 | 2153 | 2157 | 2161 | rVB3  | 4984    | 8143    | 0.23%  | 0.030% |
| 90  | 14.774 | 2161 | 2163 | 2165 | rBV3  | 851     | 944     | 0.03%  | 0.004% |
| 91  | 15.072 | 2210 | 2212 | 2213 | rBV2  | 1598    | 1082    | 0.03%  | 0.004% |
| 92  | 15.200 | 2229 | 2233 | 2235 | rVB5  | 2605    | 3989    | 0.11%  | 0.015% |
| 93  | 15.261 | 2240 | 2243 | 2245 | rBV4  | 1246    | 1505    | 0.04%  | 0.006% |
| 94  | 15.335 | 2251 | 2255 | 2256 | rBV4  | 1547    | 1604    | 0.04%  | 0.006% |
| 95  | 15.377 | 2257 | 2262 | 2269 | rVB   | 15561   | 30038   | 0.84%  | 0.112% |
| 96  | 15.432 | 2269 | 2271 | 2273 | rBV3  | 1041    | 838     | 0.02%  | 0.003% |
| 97  | 15.511 | 2281 | 2284 | 2288 | rVV   | 3391    | 5031    | 0.14%  | 0.019% |
| 98  | 15.572 | 2289 | 2294 | 2299 | rVB6  | 5640    | 10089   | 0.28%  | 0.038% |
| 99  | 15.646 | 2303 | 2306 | 2307 | rBV3  | 1127    | 1234    | 0.03%  | 0.005% |
| 100 | 16.237 | 2401 | 2403 | 2406 | rVB4  | 1840    | 1166    | 0.03%  | 0.004% |

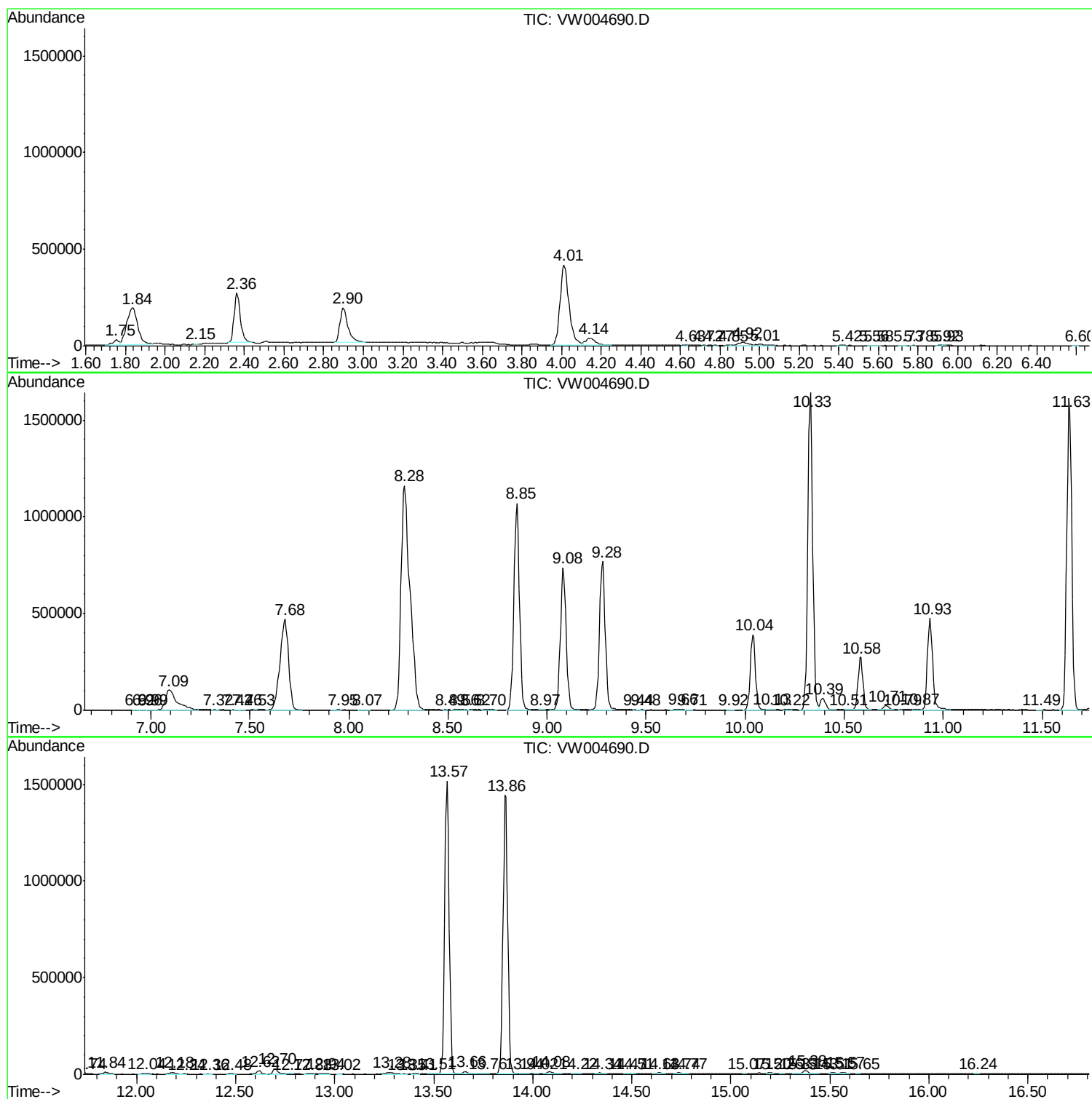
Sum of corrected areas: 26846431

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_W\METHOD\SOM2WLM081418S.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW081618\  
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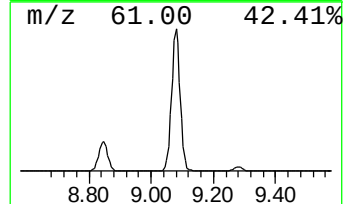
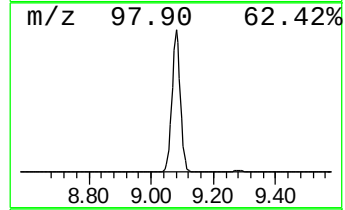
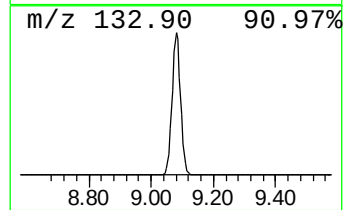
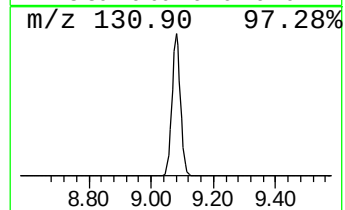
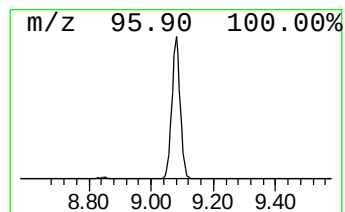
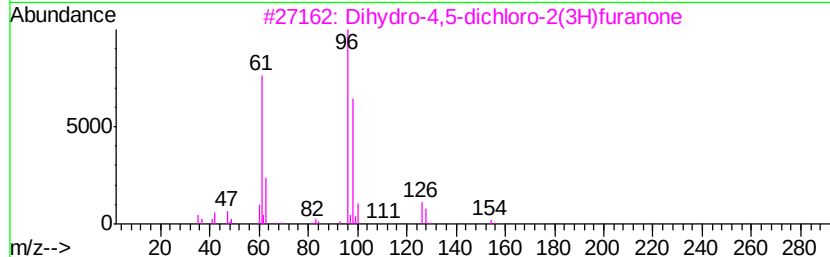
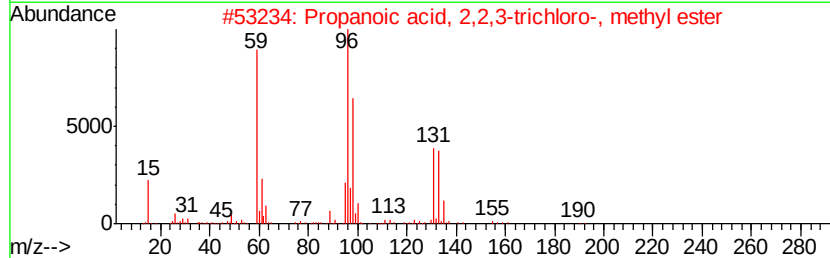
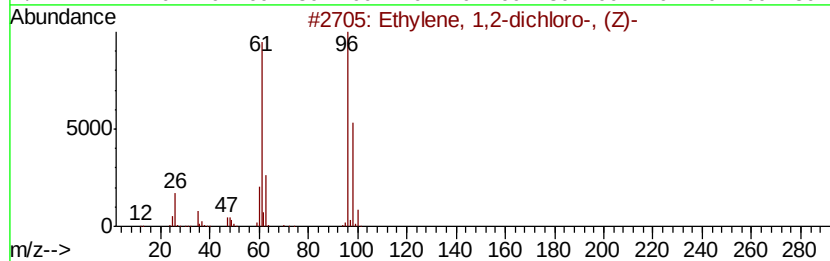
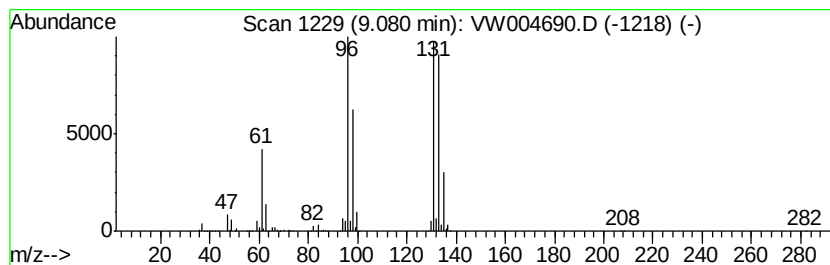
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 unknown-01 Concentration Rank 1

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 9.08 | 17.67 ug/L | 1495630 | 1,4-Difluorobenzene | 8.85 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 35   |
| 2    |    | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 25   |
| 3    |    | Dihydro-4,5-dichloro-2(3H)furanone  | 154 | C4H4Cl2O2 | 114434-99-0 | 17   |
| 4    |    | Benzene, fluoro-                    | 96  | C6H5F     | 000462-06-6 | 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       | 9.08 | 17.7    | ug/L  | 1495630  | 1                       | 8.85 | 2116370 | 25.0 |