

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV060820\  
 Data File : VV016655.D  
 Acq On : 08 Jun 2020 13:27  
 Operator : SY/MD  
 Sample : L2872-14  
 Misc : 5.0mL/MSVOA V/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 BFEP6

## 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\SOMVLM060820WMA.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       | 64            | 70          | 80           | rVB      | 177224         | 176481        | 13.32%          | 2.109%        |
| 2         | 1.560       | 140           | 146         | 159          | rVB      | 118743         | 140832        | 10.63%          | 1.683%        |
| 3         | 2.116       | 310           | 319         | 332          | rBV      | 260977         | 382767        | 28.89%          | 4.575%        |
| 4         | 2.392       | 401           | 405         | 407          | rBV3     | 1404           | 821           | 0.06%           | 0.010%        |
| 5         | 2.720       | 503           | 507         | 512          | rVB7     | 1473           | 1139          | 0.09%           | 0.014%        |
| 6         | 2.891       | 554           | 560         | 561          | rBV4     | 911            | 876           | 0.07%           | 0.010%        |
| 7         | 2.949       | 577           | 578         | 582          | rVB4     | 1298           | 683           | 0.05%           | 0.008%        |
| 8         | 2.971       | 582           | 585         | 587          | rBV4     | 1429           | 984           | 0.07%           | 0.012%        |
| 9         | 3.171       | 643           | 647         | 650          | rBV5     | 1695           | 1225          | 0.09%           | 0.015%        |
| 10        | 3.238       | 661           | 668         | 671          | rBV7     | 1876           | 1651          | 0.12%           | 0.020%        |
| 11        | 3.370       | 707           | 709         | 713          | rVB3     | 1597           | 1016          | 0.08%           | 0.012%        |
| 12        | 3.450       | 732           | 734         | 738          | rBV4     | 1353           | 1020          | 0.08%           | 0.012%        |
| 13        | 3.511       | 751           | 753         | 758          | rVB6     | 1161           | 1037          | 0.08%           | 0.012%        |
| 14        | 3.540       | 758           | 762         | 769          | rVB8     | 1901           | 1852          | 0.14%           | 0.022%        |
| 15        | 3.650       | 793           | 796         | 801          | rVB6     | 1989           | 1607          | 0.12%           | 0.019%        |
| 16        | 3.679       | 801           | 805         | 806          | rBV2     | 1479           | 1000          | 0.08%           | 0.012%        |
| 17        | 3.724       | 816           | 819         | 824          | rBV6     | 1654           | 1103          | 0.08%           | 0.013%        |
| 18        | 3.833       | 849           | 853         | 855          | rBV5     | 1275           | 698           | 0.05%           | 0.008%        |
| 19        | 3.849       | 855           | 858         | 861          | rBV3     | 1458           | 1219          | 0.09%           | 0.015%        |
| 20        | 3.897       | 862           | 873         | 905          | rVV2     | 110038         | 334755        | 25.27%          | 4.001%        |
| 21        | 4.190       | 961           | 964         | 967          | rBV4     | 1463           | 1269          | 0.10%           | 0.015%        |
| 22        | 4.373       | 1008          | 1021        | 1047         | rVB      | 208786         | 512644        | 38.70%          | 6.127%        |
| 23        | 4.589       | 1084          | 1088        | 1091         | rBV4     | 1527           | 1164          | 0.09%           | 0.014%        |
| 24        | 4.672       | 1111          | 1114        | 1115         | rBV3     | 1287           | 806           | 0.06%           | 0.010%        |
| 25        | 4.765       | 1139          | 1143        | 1144         | rBV4     | 1190           | 858           | 0.06%           | 0.010%        |
| 26        | 4.801       | 1152          | 1154        | 1158         | rVV4     | 1346           | 989           | 0.07%           | 0.012%        |
| 27        | 4.855       | 1168          | 1171        | 1175         | rVB5     | 1597           | 1028          | 0.08%           | 0.012%        |
| 28        | 4.904       | 1183          | 1186        | 1189         | rBV5     | 1276           | 873           | 0.07%           | 0.010%        |
| 29        | 5.071       | 1217          | 1238        | 1260         | rBV2     | 509864         | 1324770       | 100.00%         | 15.834%       |
| 30        | 5.576       | 1393          | 1395        | 1398         | rBV3     | 1475           | 844           | 0.06%           | 0.010%        |
| 31        | 5.643       | 1405          | 1416        | 1435         | rVV2     | 84995          | 173641        | 13.11%          | 2.075%        |
| 32        | 5.769       | 1453          | 1455        | 1459         | rBV5     | 2286           | 1207          | 0.09%           | 0.014%        |
| 33        | 5.936       | 1489          | 1507        | 1521         | rBV10    | 12478          | 33233         | 2.51%           | 0.397%        |
| 34        | 6.013       | 1527          | 1531        | 1532         | rBV3     | 1895           | 1321          | 0.10%           | 0.016%        |

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 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |       |        |         |        |         |
|----|--------|------|------|------|-------|--------|---------|--------|---------|
| 35 | 6.093  | 1543 | 1556 | 1584 | rVB2  | 291335 | 593391  | 44.79% | 7.092%  |
| 36 | 6.347  | 1633 | 1635 | 1640 | rVB4  | 1369   | 825     | 0.06%  | 0.010%  |
| 37 | 6.424  | 1655 | 1659 | 1661 | rBV5  | 1302   | 1150    | 0.09%  | 0.014%  |
| 38 | 6.515  | 1686 | 1687 | 1690 | rBV3  | 1326   | 947     | 0.07%  | 0.011%  |
| 39 | 6.646  | 1724 | 1728 | 1732 | rBV7  | 1942   | 2234    | 0.17%  | 0.027%  |
| 40 | 6.820  | 1777 | 1782 | 1783 | rVB4  | 1302   | 863     | 0.07%  | 0.010%  |
| 41 | 6.836  | 1783 | 1787 | 1791 | rBV5  | 1604   | 1668    | 0.13%  | 0.020%  |
| 42 | 6.878  | 1797 | 1800 | 1801 | rBV2  | 1107   | 757     | 0.06%  | 0.009%  |
| 43 | 6.910  | 1806 | 1810 | 1812 | rBV5  | 1368   | 1129    | 0.09%  | 0.013%  |
| 44 | 6.958  | 1823 | 1825 | 1827 | rBV3  | 1290   | 797     | 0.06%  | 0.010%  |
| 45 | 7.006  | 1830 | 1840 | 1856 | rVV   | 152577 | 269898  | 20.37% | 3.226%  |
| 46 | 7.338  | 1931 | 1943 | 1959 | rBV   | 606553 | 1029918 | 77.74% | 12.310% |
| 47 | 7.643  | 2028 | 2038 | 2057 | rBV   | 110101 | 191160  | 14.43% | 2.285%  |
| 48 | 7.997  | 2138 | 2148 | 2167 | rVB2  | 232641 | 389922  | 29.43% | 4.660%  |
| 49 | 8.106  | 2172 | 2182 | 2213 | rBV   | 353866 | 669946  | 50.57% | 8.007%  |
| 50 | 8.524  | 2309 | 2312 | 2313 | rBV3  | 1135   | 746     | 0.06%  | 0.009%  |
| 51 | 8.675  | 2357 | 2359 | 2360 | rBV2  | 1521   | 754     | 0.06%  | 0.009%  |
| 52 | 8.836  | 2406 | 2409 | 2411 | rBV5  | 1403   | 1024    | 0.08%  | 0.012%  |
| 53 | 8.875  | 2411 | 2421 | 2433 | rBV   | 135815 | 216707  | 16.36% | 2.590%  |
| 54 | 9.235  | 2527 | 2533 | 2534 | rBV5  | 1185   | 1190    | 0.09%  | 0.014%  |
| 55 | 9.289  | 2549 | 2550 | 2555 | rBV5  | 1183   | 753     | 0.06%  | 0.009%  |
| 56 | 9.370  | 2571 | 2575 | 2577 | rBV4  | 1140   | 899     | 0.07%  | 0.011%  |
| 57 | 9.395  | 2581 | 2583 | 2588 | rBV4  | 1169   | 946     | 0.07%  | 0.011%  |
| 58 | 9.662  | 2663 | 2666 | 2668 | rBV4  | 1083   | 741     | 0.06%  | 0.009%  |
| 59 | 9.691  | 2671 | 2675 | 2677 | rBV5  | 1176   | 904     | 0.07%  | 0.011%  |
| 60 | 9.804  | 2708 | 2710 | 2713 | rVV4  | 1155   | 702     | 0.05%  | 0.008%  |
| 61 | 10.238 | 2833 | 2845 | 2859 | rBV   | 385188 | 611365  | 46.15% | 7.307%  |
| 62 | 10.373 | 2884 | 2887 | 2889 | rBV3  | 1585   | 833     | 0.06%  | 0.010%  |
| 63 | 10.473 | 2915 | 2918 | 2921 | rBV5  | 1505   | 1028    | 0.08%  | 0.012%  |
| 64 | 10.511 | 2927 | 2930 | 2931 | rBV2  | 1280   | 715     | 0.05%  | 0.009%  |
| 65 | 10.817 | 3020 | 3025 | 3029 | rBV8  | 1679   | 2272    | 0.17%  | 0.027%  |
| 66 | 10.846 | 3029 | 3034 | 3038 | rVV8  | 1562   | 1983    | 0.15%  | 0.024%  |
| 67 | 10.997 | 3075 | 3081 | 3086 | rBV10 | 1602   | 1545    | 0.12%  | 0.018%  |
| 68 | 11.148 | 3124 | 3128 | 3130 | rVB3  | 1253   | 819     | 0.06%  | 0.010%  |
| 69 | 11.202 | 3141 | 3145 | 3156 | rVB3  | 2781   | 4648    | 0.35%  | 0.056%  |
| 70 | 11.273 | 3156 | 3167 | 3186 | rBV   | 131337 | 215741  | 16.29% | 2.579%  |
| 71 | 11.382 | 3199 | 3201 | 3204 | rBV3  | 1377   | 896     | 0.07%  | 0.011%  |

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 BFEP6

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 Peak Location: TOP

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 Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |         |
|-----|--------|------|------|------|------|--------|--------|--------|---------|
| 72  | 11.476 | 3228 | 3230 | 3232 | rBV3 | 1876   | 1043   | 0.08%  | 0.012%  |
| 73  | 11.501 | 3236 | 3238 | 3242 | rVB3 | 1172   | 790    | 0.06%  | 0.009%  |
| 74  | 11.646 | 3271 | 3283 | 3301 | rBV  | 634048 | 990013 | 74.73% | 11.833% |
| 75  | 11.807 | 3330 | 3333 | 3337 | rBV5 | 1077   | 889    | 0.07%  | 0.011%  |
| 76  | 11.977 | 3383 | 3386 | 3389 | rBV4 | 1772   | 1072   | 0.08%  | 0.013%  |
| 77  | 12.074 | 3414 | 3416 | 3419 | rVB3 | 2099   | 1173   | 0.09%  | 0.014%  |
| 78  | 12.186 | 3447 | 3451 | 3454 | rVB6 | 1357   | 922    | 0.07%  | 0.011%  |
| 79  | 12.251 | 3468 | 3471 | 3475 | rBV5 | 1251   | 839    | 0.06%  | 0.010%  |
| 80  | 12.344 | 3497 | 3500 | 3503 | rBV5 | 1650   | 1095   | 0.08%  | 0.013%  |
| 81  | 12.553 | 3561 | 3565 | 3569 | rBV6 | 1834   | 1735   | 0.13%  | 0.021%  |
| 82  | 12.765 | 3629 | 3631 | 3637 | rVB6 | 1687   | 1691   | 0.13%  | 0.020%  |
| 83  | 12.862 | 3659 | 3661 | 3664 | rVB4 | 1784   | 827    | 0.06%  | 0.010%  |
| 84  | 12.997 | 3700 | 3703 | 3706 | rBV4 | 2322   | 1611   | 0.12%  | 0.019%  |
| 85  | 13.064 | 3720 | 3724 | 3729 | rBV8 | 1808   | 1865   | 0.14%  | 0.022%  |
| 86  | 13.170 | 3755 | 3757 | 3761 | rBV4 | 2816   | 1981   | 0.15%  | 0.024%  |
| 87  | 13.235 | 3772 | 3777 | 3782 | rBV6 | 2210   | 2436   | 0.18%  | 0.029%  |
| 88  | 13.289 | 3785 | 3794 | 3801 | rVV6 | 4523   | 8208   | 0.62%  | 0.098%  |
| 89  | 13.353 | 3812 | 3814 | 3817 | rBV2 | 1396   | 784    | 0.06%  | 0.009%  |
| 90  | 13.440 | 3838 | 3841 | 3842 | rBV3 | 2075   | 1097   | 0.08%  | 0.013%  |
| 91  | 13.537 | 3863 | 3871 | 3878 | rBV7 | 4232   | 7166   | 0.54%  | 0.086%  |
| 92  | 13.678 | 3911 | 3915 | 3918 | rBV5 | 1009   | 854    | 0.06%  | 0.010%  |
| 93  | 14.119 | 4050 | 4052 | 4057 | rVB4 | 1578   | 1056   | 0.08%  | 0.013%  |
| 94  | 14.353 | 4122 | 4125 | 4128 | rBV4 | 2015   | 1491   | 0.11%  | 0.018%  |
| 95  | 14.517 | 4173 | 4176 | 4178 | rBV4 | 1628   | 1095   | 0.08%  | 0.013%  |
| 96  | 14.575 | 4191 | 4194 | 4196 | rBV2 | 1349   | 761    | 0.06%  | 0.009%  |
| 97  | 14.652 | 4216 | 4218 | 4221 | rBV4 | 1240   | 806    | 0.06%  | 0.010%  |
| 98  | 14.974 | 4315 | 4318 | 4322 | rBV4 | 1982   | 1738   | 0.13%  | 0.021%  |
| 99  | 15.093 | 4352 | 4355 | 4357 | rBV4 | 1863   | 1125   | 0.08%  | 0.013%  |
| 100 | 15.183 | 4381 | 4383 | 4387 | rBV3 | 2017   | 1460   | 0.11%  | 0.017%  |

Sum of corrected areas: 8366852



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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVLM060820WMA.M  
Quant Title : VOC Analysis

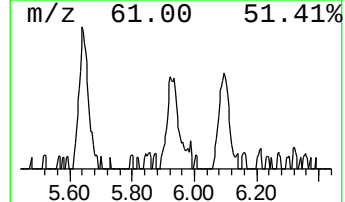
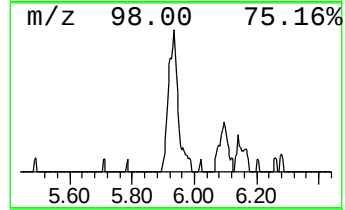
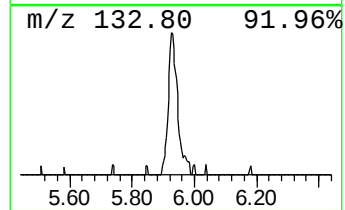
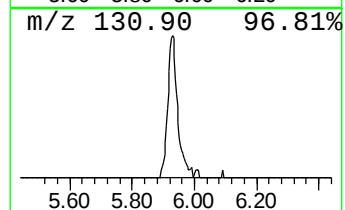
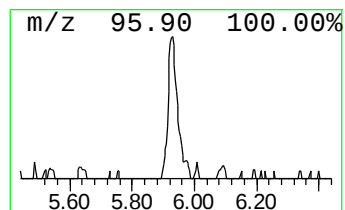
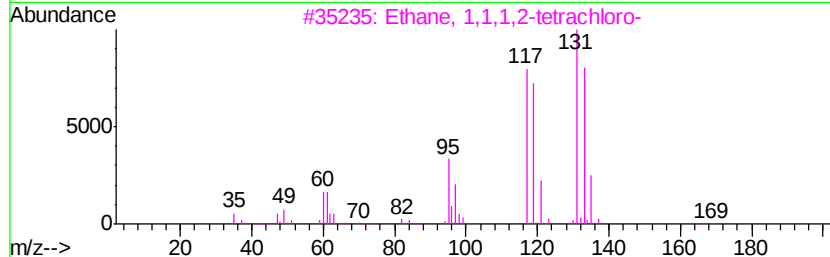
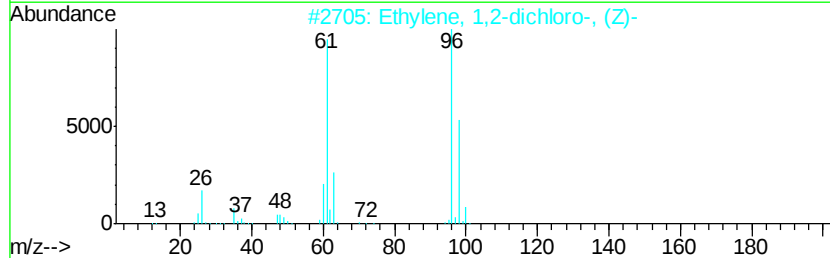
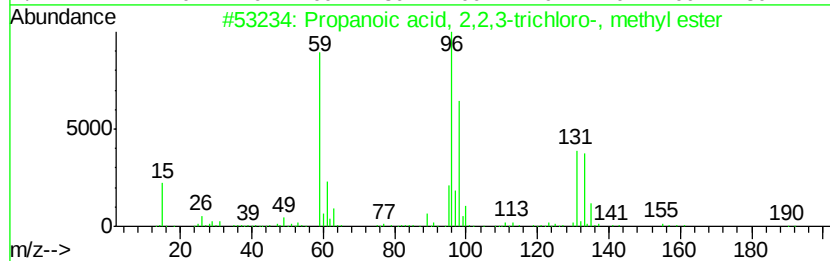
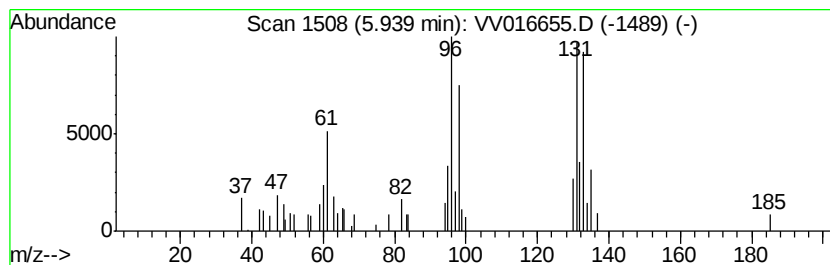
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 5.94 | 9.57 ug/L | 33233 | 1,4-Difluorobenzene | 5.64 |

| Hit# | of | Tentative ID                        | MW  | MolForm   | CAS#        | Qual |
|------|----|-------------------------------------|-----|-----------|-------------|------|
| 1    | 5  | Propanoic acid, 2,2,3-trichloro-... | 190 | C4H5Cl3O2 | 004749-35-3 | 59   |
| 2    |    | Ethylene, 1,2-dichloro-, (Z)-       | 96  | C2H2Cl2   | 000156-59-2 | 27   |
| 3    |    | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 16   |
| 4    |    | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 16   |
| 5    |    | Ethane, 1,1,1,2-tetrachloro-        | 166 | C2H2Cl4   | 000630-20-6 | 14   |



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Quant Title : VOC Analysis

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

| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| Propanoic acid, 2... | 5.94 | 9.6     | ug/L  | 33233    | 1                     | 5.64 | 173641 | 50.0 |