

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080518\  
 Data File : VU025868.D  
 Acq On : 04 Aug 2018 13:04  
 Operator : MD/SY  
 Sample : J4340-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F85

## 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\_U\METHOD\SOMULM072018WMA.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         | 0.651       | 17            | 19          | 20           | rBV      | 200            | 68            | 0.001%          | 0.001%        |
| 2         | 0.754       | 48            | 51          | 54           | rBV      | 297            | 187           | 0.002%          | 0.002%        |
| 3         | 0.793       | 60            | 63          | 66           | rBV2     | 194            | 114           | 0.001%          | 0.001%        |
| 4         | 0.883       | 89            | 91          | 93           | rVB2     | 240            | 116           | 0.001%          | 0.001%        |
| 5         | 0.896       | 93            | 95          | 97           | rBV2     | 158            | 92            | 0.001%          | 0.001%        |
| 6         | 0.928       | 101           | 105         | 107          | rBV3     | 306            | 284           | 0.002%          | 0.003%        |
| 7         | 0.983       | 120           | 122         | 124          | rBV      | 142            | 100           | 0.001%          | 0.001%        |
| 8         | 1.089       | 134           | 155         | 173          | rBV      | 1125175        | 1208984       | 100.00%         | 12.696%       |
| 9         | 1.185       | 179           | 185         | 196          | rVB      | 64348          | 63167         | 5.22%           | 0.663%        |
| 10        | 1.401       | 244           | 252         | 266          | rVB      | 128374         | 145950        | 12.07%          | 1.533%        |
| 11        | 1.684       | 333           | 340         | 354          | rVB      | 90170          | 114261        | 9.45%           | 1.200%        |
| 12        | 2.275       | 515           | 524         | 535          | rVB      | 198323         | 293193        | 24.25%          | 3.079%        |
| 13        | 2.446       | 570           | 577         | 599          | rVB2     | 11403          | 22961         | 1.90%           | 0.241%        |
| 14        | 2.548       | 606           | 609         | 614          | rVB3     | 415            | 337           | 0.03%           | 0.004%        |
| 15        | 2.606       | 623           | 627         | 628          | rBV      | 411            | 275           | 0.02%           | 0.003%        |
| 16        | 2.677       | 648           | 649         | 650          | rBV      | 214            | 59            | 0.00%           | 0.001%        |
| 17        | 2.706       | 650           | 658         | 666          | rVV6     | 2438           | 3936          | 0.33%           | 0.041%        |
| 18        | 2.786       | 680           | 683         | 687          | rBV4     | 887            | 739           | 0.06%           | 0.008%        |
| 19        | 2.841       | 692           | 700         | 715          | rVB      | 13778          | 27312         | 2.26%           | 0.287%        |
| 20        | 2.947       | 730           | 733         | 736          | rBV2     | 403            | 253           | 0.02%           | 0.003%        |
| 21        | 3.002       | 741           | 750         | 754          | rBV3     | 835            | 971           | 0.08%           | 0.010%        |
| 22        | 3.092       | 774           | 778         | 783          | rVB3     | 422            | 343           | 0.03%           | 0.004%        |
| 23        | 3.124       | 785           | 788         | 790          | rBV      | 228            | 134           | 0.01%           | 0.001%        |
| 24        | 3.159       | 796           | 799         | 801          | rBV2     | 241            | 147           | 0.01%           | 0.002%        |
| 25        | 3.185       | 801           | 807         | 808          | rBV3     | 577            | 602           | 0.05%           | 0.006%        |
| 26        | 3.333       | 851           | 853         | 857          | rVB2     | 412            | 247           | 0.02%           | 0.003%        |
| 27        | 3.352       | 857           | 859         | 861          | rBV2     | 213            | 115           | 0.01%           | 0.001%        |
| 28        | 3.394       | 869           | 872         | 873          | rBV2     | 276            | 196           | 0.02%           | 0.002%        |
| 29        | 3.597       | 933           | 935         | 936          | rBV      | 179            | 96            | 0.01%           | 0.001%        |
| 30        | 3.635       | 944           | 947         | 950          | rBV2     | 357            | 312           | 0.03%           | 0.003%        |
| 31        | 3.655       | 950           | 953         | 955          | rVV      | 193            | 136           | 0.01%           | 0.001%        |
| 32        | 3.690       | 960           | 964         | 965          | rBV      | 355            | 202           | 0.02%           | 0.002%        |
| 33        | 3.751       | 980           | 983         | 986          | rBV2     | 191            | 157           | 0.01%           | 0.002%        |
| 34        | 3.773       | 986           | 990         | 992          | rVB2     | 368            | 235           | 0.02%           | 0.002%        |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080518\  
 Data File : VU025868.D  
 Acq On : 04 Aug 2018 13:04  
 Operator : MD/SY  
 Sample : J4340-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F85

## 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\_U\METHOD\SOMULM072018WMA.M  
 Title : VOC Analysis

|    |       |      |      |      |      |        |         |        |         |
|----|-------|------|------|------|------|--------|---------|--------|---------|
| 35 | 3.812 | 998  | 1002 | 1003 | rBV2 | 269    | 134     | 0.01%  | 0.001%  |
| 36 | 3.915 | 1030 | 1034 | 1037 | rVB  | 304    | 222     | 0.02%  | 0.002%  |
| 37 | 3.931 | 1037 | 1039 | 1041 | rBV2 | 307    | 158     | 0.01%  | 0.002%  |
| 38 | 3.957 | 1045 | 1047 | 1051 | rBV2 | 252    | 152     | 0.01%  | 0.002%  |
| 39 | 3.992 | 1052 | 1058 | 1059 | rBV2 | 1019   | 913     | 0.08%  | 0.010%  |
| 40 | 4.069 | 1079 | 1082 | 1083 | rBV2 | 143    | 91      | 0.01%  | 0.001%  |
| 41 | 4.079 | 1083 | 1085 | 1086 | rBV  | 222    | 108     | 0.01%  | 0.001%  |
| 42 | 4.101 | 1090 | 1092 | 1094 | rBV2 | 312    | 163     | 0.01%  | 0.002%  |
| 43 | 4.118 | 1094 | 1097 | 1098 | rBV  | 401    | 178     | 0.01%  | 0.002%  |
| 44 | 4.182 | 1102 | 1117 | 1156 | rBV2 | 99937  | 306346  | 25.34% | 3.217%  |
| 45 | 4.590 | 1242 | 1244 | 1245 | rBV  | 394    | 174     | 0.01%  | 0.002%  |
| 46 | 4.651 | 1247 | 1263 | 1282 | rVV  | 178366 | 412377  | 34.11% | 4.331%  |
| 47 | 4.783 | 1302 | 1304 | 1309 | rVB  | 477    | 270     | 0.02%  | 0.003%  |
| 48 | 4.815 | 1309 | 1314 | 1317 | rBV2 | 544    | 498     | 0.04%  | 0.005%  |
| 49 | 4.925 | 1343 | 1348 | 1352 | rVB3 | 435    | 483     | 0.04%  | 0.005%  |
| 50 | 4.950 | 1353 | 1356 | 1358 | rBV  | 283    | 189     | 0.02%  | 0.002%  |
| 51 | 4.992 | 1365 | 1369 | 1370 | rBV3 | 520    | 447     | 0.04%  | 0.005%  |
| 52 | 5.040 | 1380 | 1384 | 1385 | rBV  | 297    | 188     | 0.02%  | 0.002%  |
| 53 | 5.124 | 1408 | 1410 | 1412 | rBV2 | 184    | 99      | 0.01%  | 0.001%  |
| 54 | 5.137 | 1412 | 1414 | 1417 | rBV  | 196    | 94      | 0.01%  | 0.001%  |
| 55 | 5.198 | 1429 | 1433 | 1435 | rBV2 | 250    | 191     | 0.02%  | 0.002%  |
| 56 | 5.214 | 1435 | 1438 | 1444 | rVB2 | 449    | 425     | 0.04%  | 0.004%  |
| 57 | 5.246 | 1444 | 1448 | 1450 | rBV  | 401    | 216     | 0.02%  | 0.002%  |
| 58 | 5.346 | 1453 | 1479 | 1507 | rBV3 | 340834 | 1026316 | 84.89% | 10.778% |
| 59 | 5.632 | 1563 | 1568 | 1570 | rBV2 | 349    | 355     | 0.03%  | 0.004%  |
| 60 | 5.661 | 1574 | 1577 | 1582 | rBV2 | 517    | 517     | 0.04%  | 0.005%  |
| 61 | 5.728 | 1595 | 1598 | 1600 | rBV2 | 283    | 176     | 0.01%  | 0.002%  |
| 62 | 5.889 | 1634 | 1648 | 1671 | rBV  | 344435 | 676348  | 55.94% | 7.103%  |
| 63 | 6.072 | 1703 | 1705 | 1706 | rBV  | 288    | 137     | 0.01%  | 0.001%  |
| 64 | 6.150 | 1727 | 1729 | 1732 | rBV2 | 306    | 197     | 0.02%  | 0.002%  |
| 65 | 6.336 | 1772 | 1787 | 1806 | rBV  | 235126 | 465145  | 38.47% | 4.885%  |
| 66 | 6.542 | 1842 | 1851 | 1859 | rBV4 | 1343   | 2142    | 0.18%  | 0.022%  |
| 67 | 6.603 | 1868 | 1870 | 1872 | rBV  | 270    | 196     | 0.02%  | 0.002%  |
| 68 | 6.732 | 1906 | 1910 | 1912 | rBV2 | 468    | 405     | 0.03%  | 0.004%  |
| 69 | 6.793 | 1925 | 1929 | 1933 | rBV3 | 352    | 418     | 0.03%  | 0.004%  |
| 70 | 6.828 | 1938 | 1940 | 1943 | rBV  | 421    | 315     | 0.03%  | 0.003%  |
| 71 | 6.944 | 1972 | 1976 | 1978 | rBV  | 310    | 251     | 0.02%  | 0.003%  |

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU080518\  
 Data File : VU025868.D  
 Acq On : 04 Aug 2018 13:04  
 Operator : MD/SY  
 Sample : J4340-20  
 Misc : 5.0mL/MSVOA U/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 E5F85

## 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\_U\METHOD\SOMULM072018WMA.M  
 Title : VOC Analysis

|     |        |      |      |      |      |        |        |        |        |
|-----|--------|------|------|------|------|--------|--------|--------|--------|
| 72  | 6.979  | 1985 | 1987 | 1988 | rBV2 | 247    | 112    | 0.01%  | 0.001% |
| 73  | 7.024  | 1994 | 2001 | 2006 | rBV3 | 490    | 684    | 0.06%  | 0.007% |
| 74  | 7.056  | 2006 | 2011 | 2012 | rBV2 | 243    | 234    | 0.02%  | 0.002% |
| 75  | 7.085  | 2016 | 2020 | 2022 | rBV2 | 275    | 230    | 0.02%  | 0.002% |
| 76  | 7.121  | 2027 | 2031 | 2032 | rBV  | 224    | 145    | 0.01%  | 0.002% |
| 77  | 7.230  | 2053 | 2065 | 2090 | rBV  | 134187 | 239991 | 19.85% | 2.520% |
| 78  | 7.568  | 2157 | 2170 | 2188 | rBV  | 470316 | 809453 | 66.95% | 8.501% |
| 79  | 7.854  | 2248 | 2259 | 2280 | rBV2 | 96851  | 165330 | 13.68% | 1.736% |
| 80  | 8.043  | 2314 | 2318 | 2319 | rBV3 | 356    | 279    | 0.02%  | 0.003% |
| 81  | 8.230  | 2365 | 2376 | 2389 | rBV2 | 64272  | 106199 | 8.78%  | 1.115% |
| 82  | 8.313  | 2391 | 2402 | 2439 | rVV  | 271324 | 483732 | 40.01% | 5.080% |
| 83  | 8.989  | 2609 | 2612 | 2613 | rBV2 | 266    | 133    | 0.01%  | 0.001% |
| 84  | 9.021  | 2619 | 2622 | 2625 | rBV  | 286    | 227    | 0.02%  | 0.002% |
| 85  | 9.040  | 2625 | 2628 | 2631 | rBV2 | 397    | 290    | 0.02%  | 0.003% |
| 86  | 9.092  | 2631 | 2644 | 2664 | rBV  | 501980 | 822579 | 68.04% | 8.639% |
| 87  | 9.233  | 2685 | 2688 | 2689 | rBV  | 283    | 165    | 0.01%  | 0.002% |
| 88  | 9.381  | 2727 | 2734 | 2740 | rVB4 | 1741   | 2414   | 0.20%  | 0.025% |
| 89  | 9.545  | 2782 | 2785 | 2788 | rBV  | 379    | 282    | 0.02%  | 0.003% |
| 90  | 9.603  | 2799 | 2803 | 2804 | rBV2 | 476    | 321    | 0.03%  | 0.003% |
| 91  | 9.699  | 2828 | 2833 | 2839 | rBV3 | 363    | 570    | 0.05%  | 0.006% |
| 92  | 9.889  | 2889 | 2892 | 2893 | rBV  | 398    | 199    | 0.02%  | 0.002% |
| 93  | 10.236 | 2996 | 3000 | 3004 | rBV3 | 440    | 416    | 0.03%  | 0.004% |
| 94  | 10.436 | 3050 | 3062 | 3079 | rBV  | 321139 | 514885 | 42.59% | 5.407% |
| 95  | 10.590 | 3108 | 3110 | 3111 | rBV  | 344    | 119    | 0.01%  | 0.001% |
| 96  | 10.838 | 3183 | 3187 | 3189 | rBV  | 587    | 457    | 0.04%  | 0.005% |
| 97  | 11.313 | 3333 | 3335 | 3338 | rBV3 | 387    | 211    | 0.02%  | 0.002% |
| 98  | 11.423 | 3363 | 3369 | 3371 | rBV4 | 740    | 706    | 0.06%  | 0.007% |
| 99  | 11.487 | 3376 | 3389 | 3409 | rBV  | 502339 | 800659 | 66.23% | 8.408% |
| 100 | 11.863 | 3492 | 3506 | 3523 | rBV  | 491829 | 787872 | 65.17% | 8.274% |

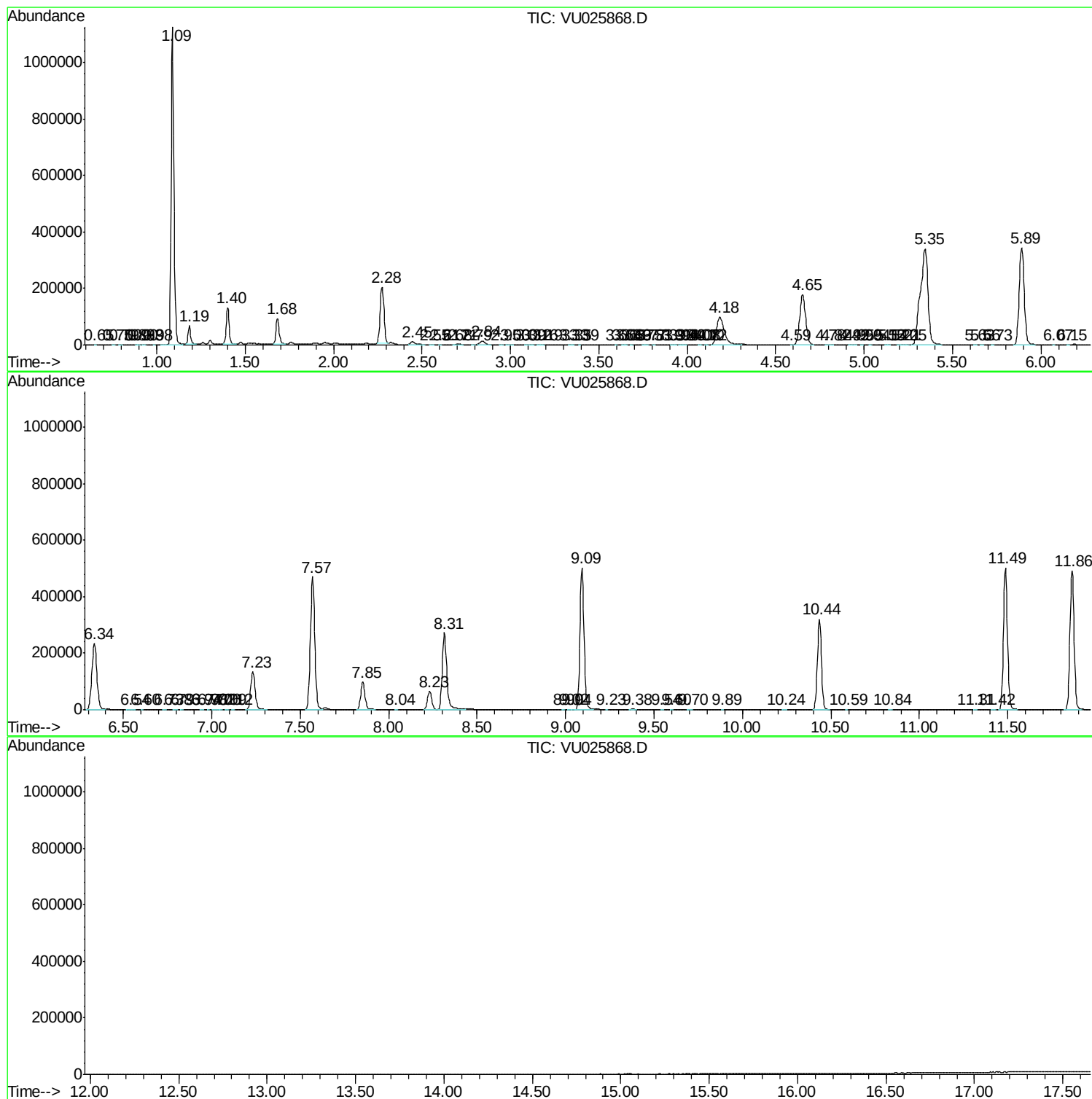
Sum of corrected areas: 9522209

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080518\  
Data File : VU025868.D  
Acq On : 04 Aug 2018 13:04  
Operator : MD/SY  
Sample : J4340-20  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E5F85

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU080518\  
Data File : VU025868.D  
Acq On : 04 Aug 2018 13:04  
Operator : MD/SY  
Sample : J4340-20  
Misc : 5.0mL/MSVOA U/WATER  
ALS Vial : 8 Sample Multiplier: 1

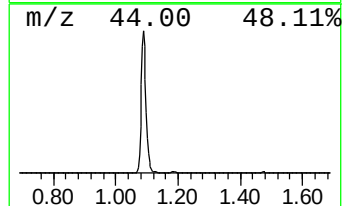
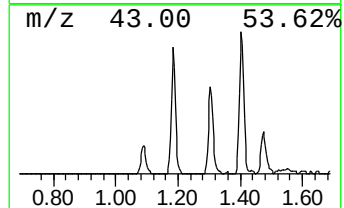
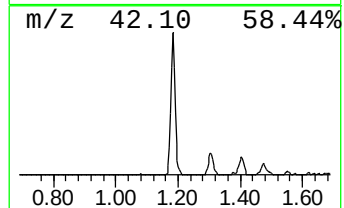
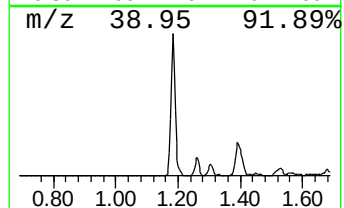
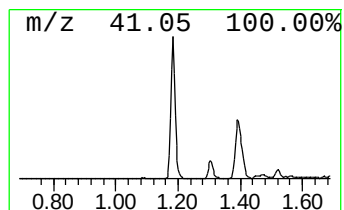
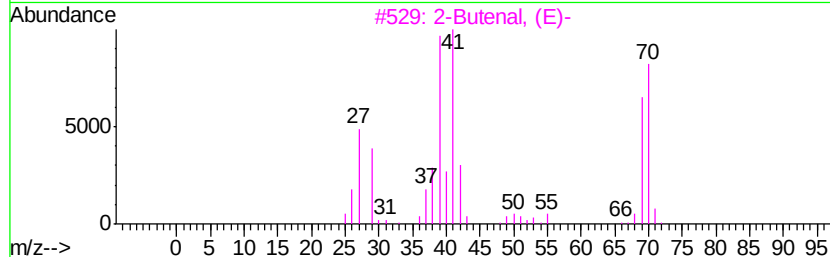
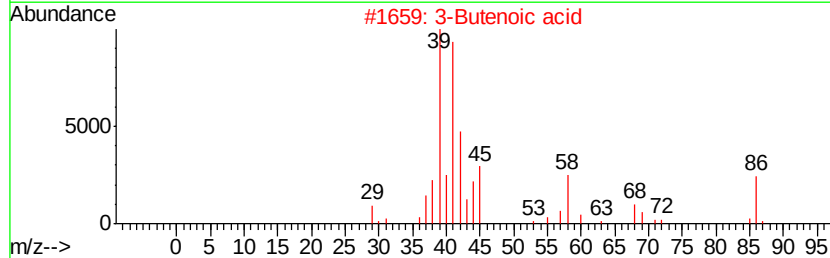
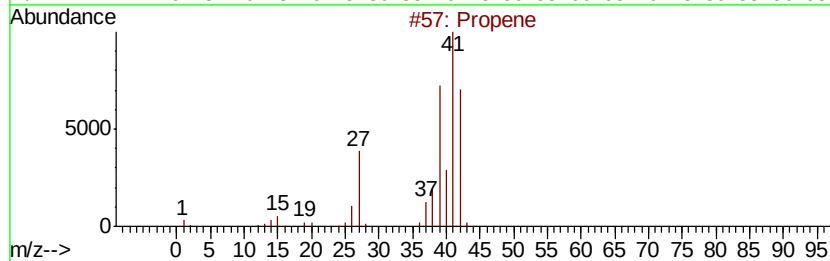
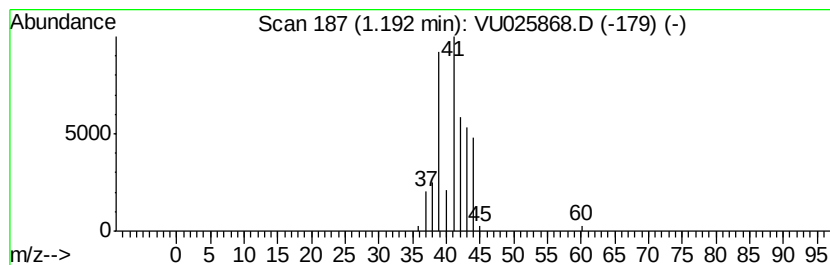
Instrument :  
MSVOA\_U  
ClientSampleId :  
E5F85

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 (DEL) Alkane: Cyclic1.19 Concentration Rank 3

| R.T.      | EstConc              | Area  | Relative to ISTD    | R.T.        |      |
|-----------|----------------------|-------|---------------------|-------------|------|
| 1.19      | 4.67 ug/L            | 63167 | 1,4-Difluorobenzene | 5.89        |      |
| Hit# of 5 | Tentative ID         | MW    | MolForm             | CAS#        | Qual |
| 1         | Propene              | 42    | C3H6                | 000115-07-1 | 86   |
| 2         | 3-Butenoic acid      | 86    | C4H6O2              | 000625-38-7 | 78   |
| 3         | 2-Butenal, (E)-      | 70    | C4H6O               | 000123-73-9 | 72   |
| 4         | Aluminum, tripropyl- | 156   | C9H21Al             | 000102-67-0 | 64   |
| 5         | Furan, 2,5-dihydro-  | 70    | C4H6O               | 001708-29-8 | 59   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU080518\  
Data File : VU025868.D  
Acq On : 04 Aug 2018 13:04  
Operator : MD/SY  
Sample : J4340-20  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
E5F85

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMULM072018WMA.M  
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 |
| (DEL) Alkane: Cyc... | 1.19 | 4.7     | ug/L  | 63167    | 1                     | 5.89 | 676348 | 50.0 |