

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU050923\  
 Data File : VU054129.D  
 Acq On : 09 May 2023 18:34  
 Operator : JC/MD  
 Sample : 02694-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 JREN1

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\_U\Method\SFAMULM042923WMA.M  
 Title : VOC Analysis

Signal : TIC: VU054129.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         | 1.597       | 73            | 80          | 94           | rVB      | 70546          | 82382         | 10.88%          | 1.333%        |
| 2         | 1.684       | 99            | 107         | 125          | rVV      | 144794         | 181878        | 24.03%          | 2.944%        |
| 3         | 1.906       | 168           | 176         | 195          | rVB      | 61166          | 87347         | 11.54%          | 1.414%        |
| 4         | 2.308       | 283           | 301         | 329          | rBV      | 122048         | 360909        | 47.68%          | 5.841%        |
| 5         | 2.562       | 366           | 380         | 394          | rBV      | 138461         | 232064        | 30.66%          | 3.756%        |
| 6         | 2.935       | 493           | 496         | 497          | rBV      | 310            | 194           | 0.03%           | 0.003%        |
| 7         | 3.041       | 522           | 529         | 539          | rVB3     | 947            | 1820          | 0.24%           | 0.029%        |
| 8         | 3.183       | 564           | 573         | 581          | rBV2     | 1816           | 3096          | 0.41%           | 0.050%        |
| 9         | 3.575       | 691           | 695         | 699          | rBV3     | 360            | 343           | 0.05%           | 0.006%        |
| 10        | 3.748       | 746           | 749         | 750          | rBV      | 176            | 108           | 0.01%           | 0.002%        |
| 11        | 3.813       | 767           | 769         | 772          | rVB      | 145            | 37            | 0.00%           | 0.001%        |
| 12        | 3.855       | 778           | 782         | 785          | rBV2     | 327            | 230           | 0.03%           | 0.004%        |
| 13        | 3.929       | 803           | 805         | 807          | rVB      | 147            | 58            | 0.01%           | 0.001%        |
| 14        | 3.938       | 807           | 808         | 811          | rBV      | 146            | 85            | 0.01%           | 0.001%        |
| 15        | 3.980       | 819           | 821         | 826          | rVB      | 206            | 146           | 0.02%           | 0.002%        |
| 16        | 4.012       | 829           | 831         | 833          | rVB      | 158            | 63            | 0.01%           | 0.001%        |
| 17        | 4.076       | 835           | 851         | 867          | rBV8     | 6500           | 22370         | 2.96%           | 0.362%        |
| 18        | 4.250       | 903           | 905         | 906          | rBV      | 392            | 158           | 0.02%           | 0.003%        |
| 19        | 4.285       | 913           | 916         | 920          | rBV      | 283            | 203           | 0.03%           | 0.003%        |
| 20        | 4.350       | 931           | 936         | 938          | rBV2     | 264            | 256           | 0.03%           | 0.004%        |
| 21        | 4.398       | 948           | 951         | 955          | rVB      | 207            | 113           | 0.01%           | 0.002%        |
| 22        | 4.443       | 962           | 965         | 966          | rBV      | 183            | 85            | 0.01%           | 0.001%        |
| 23        | 4.475       | 973           | 975         | 978          | rVB      | 249            | 103           | 0.01%           | 0.002%        |
| 24        | 4.559       | 994           | 1001        | 1003         | rBV      | 410            | 486           | 0.06%           | 0.008%        |
| 25        | 4.617       | 1007          | 1019        | 1048         | rBV2     | 62973          | 158195        | 20.90%          | 2.560%        |
| 26        | 4.941       | 1117          | 1120        | 1121         | rBV2     | 351            | 199           | 0.03%           | 0.003%        |
| 27        | 5.057       | 1140          | 1156        | 1175         | rBV      | 140765         | 313438        | 41.41%          | 5.073%        |
| 28        | 5.295       | 1226          | 1230        | 1232         | rBV      | 366            | 294           | 0.04%           | 0.005%        |
| 29        | 5.436       | 1271          | 1274        | 1275         | rBV      | 173            | 84            | 0.01%           | 0.001%        |
| 30        | 5.465       | 1281          | 1283        | 1292         | rVB2     | 274            | 255           | 0.03%           | 0.004%        |
| 31        | 5.504       | 1293          | 1295        | 1297         | rBV      | 133            | 75            | 0.01%           | 0.001%        |
| 32        | 5.517       | 1297          | 1299        | 1301         | rVB2     | 219            | 65            | 0.01%           | 0.001%        |
| 33        | 5.565       | 1310          | 1314        | 1317         | rBV      | 351            | 343           | 0.05%           | 0.006%        |
| 34        | 5.597       | 1322          | 1324        | 1325         | rVB      | 129            | 36            | 0.00%           | 0.001%        |
| 35        | 5.642       | 1335          | 1338        | 1341         | rBV2     | 123            | 76            | 0.01%           | 0.001%        |
| 36        | 5.719       | 1341          | 1362        | 1386         | rBV2     | 272083         | 756865        | 100.00%         | 12.250%       |

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 ClientSampleId :  
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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\_U\Method\SFAMULM042923WMA.M  
 Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 37 | 5.948  | 1431 | 1433 | 1434 | rBV2 | 232    | 95     | 0.01%  | 0.002% |
| 38 | 5.967  | 1436 | 1439 | 1447 | rVB3 | 635    | 544    | 0.07%  | 0.009% |
| 39 | 6.150  | 1493 | 1496 | 1498 | rBV2 | 202    | 133    | 0.02%  | 0.002% |
| 40 | 6.244  | 1512 | 1525 | 1548 | rBV  | 205815 | 391413 | 51.72% | 6.335% |
| 41 | 6.494  | 1602 | 1603 | 1605 | rBV  | 178    | 77     | 0.01%  | 0.001% |
| 42 | 6.530  | 1606 | 1614 | 1617 | rBV2 | 1911   | 2696   | 0.36%  | 0.044% |
| 43 | 6.684  | 1648 | 1662 | 1690 | rBV  | 180197 | 349079 | 46.12% | 5.650% |
| 44 | 6.861  | 1713 | 1717 | 1721 | rBV  | 293    | 290    | 0.04%  | 0.005% |
| 45 | 6.896  | 1725 | 1728 | 1734 | rVB  | 290    | 228    | 0.03%  | 0.004% |
| 46 | 7.083  | 1782 | 1786 | 1788 | rBV2 | 229    | 172    | 0.02%  | 0.003% |
| 47 | 7.137  | 1800 | 1803 | 1804 | rBV  | 195    | 87     | 0.01%  | 0.001% |
| 48 | 7.182  | 1813 | 1817 | 1819 | rBV2 | 961    | 823    | 0.11%  | 0.013% |
| 49 | 7.285  | 1845 | 1849 | 1851 | rBV2 | 177    | 148    | 0.02%  | 0.002% |
| 50 | 7.317  | 1857 | 1859 | 1862 | rVB  | 176    | 79     | 0.01%  | 0.001% |
| 51 | 7.559  | 1922 | 1934 | 1960 | rBV  | 97381  | 172541 | 22.80% | 2.793% |
| 52 | 7.745  | 1990 | 1992 | 1996 | rBV  | 169    | 82     | 0.01%  | 0.001% |
| 53 | 7.761  | 1996 | 1997 | 1999 | rVV  | 228    | 79     | 0.01%  | 0.001% |
| 54 | 7.793  | 1999 | 2007 | 2016 | rVB6 | 1648   | 2458   | 0.32%  | 0.040% |
| 55 | 7.893  | 2025 | 2038 | 2056 | rBV  | 336662 | 592405 | 78.27% | 9.588% |
| 56 | 8.173  | 2114 | 2125 | 2142 | rBV  | 68250  | 117414 | 15.51% | 1.900% |
| 57 | 8.269  | 2152 | 2155 | 2157 | rBV  | 238    | 207    | 0.03%  | 0.003% |
| 58 | 8.308  | 2164 | 2167 | 2169 | rBV2 | 156    | 109    | 0.01%  | 0.002% |
| 59 | 8.337  | 2173 | 2176 | 2179 | rBV  | 217    | 106    | 0.01%  | 0.002% |
| 60 | 8.456  | 2209 | 2213 | 2214 | rBV  | 401    | 276    | 0.04%  | 0.004% |
| 61 | 8.549  | 2237 | 2242 | 2243 | rBV  | 360    | 224    | 0.03%  | 0.004% |
| 62 | 8.568  | 2246 | 2248 | 2250 | rVV  | 175    | 93     | 0.01%  | 0.002% |
| 63 | 8.626  | 2255 | 2266 | 2298 | rBV2 | 181481 | 354978 | 46.90% | 5.745% |
| 64 | 8.813  | 2322 | 2324 | 2326 | rBV  | 282    | 121    | 0.02%  | 0.002% |
| 65 | 8.825  | 2326 | 2328 | 2331 | rBV  | 182    | 94     | 0.01%  | 0.002% |
| 66 | 8.867  | 2338 | 2341 | 2343 | rBV  | 229    | 148    | 0.02%  | 0.002% |
| 67 | 8.938  | 2359 | 2363 | 2366 | rVB  | 191    | 136    | 0.02%  | 0.002% |
| 68 | 9.105  | 2413 | 2415 | 2419 | rVB2 | 268    | 175    | 0.02%  | 0.003% |
| 69 | 9.124  | 2419 | 2421 | 2423 | rVB  | 175    | 72     | 0.01%  | 0.001% |
| 70 | 9.137  | 2423 | 2425 | 2427 | rBV  | 166    | 70     | 0.01%  | 0.001% |
| 71 | 9.411  | 2498 | 2510 | 2532 | rBV  | 284320 | 481236 | 63.58% | 7.789% |
| 72 | 9.565  | 2554 | 2558 | 2560 | rBV2 | 523    | 427    | 0.06%  | 0.007% |
| 73 | 10.456 | 2832 | 2835 | 2838 | rBV2 | 222    | 158    | 0.02%  | 0.003% |
| 74 | 10.751 | 2915 | 2927 | 2946 | rVB  | 254050 | 412424 | 54.49% | 6.675% |
| 75 | 10.857 | 2957 | 2960 | 2963 | rBV  | 268    | 192    | 0.03%  | 0.003% |
| 76 | 11.070 | 3023 | 3026 | 3028 | rBV  | 226    | 168    | 0.02%  | 0.003% |

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Integration Parameters: LSCINT.P

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Peak Location: TOP

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

Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M

Title : VOC Analysis

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 77 | 11.304 | 3096 | 3099 | 3109 | rVB2 | 345    | 507    | 0.07%  | 0.008% |
| 78 | 11.346 | 3109 | 3112 | 3114 | rBV  | 174    | 128    | 0.02%  | 0.002% |
| 79 | 11.623 | 3194 | 3198 | 3200 | rBV2 | 297    | 235    | 0.03%  | 0.004% |
| 80 | 11.806 | 3243 | 3255 | 3278 | rBV  | 302683 | 484852 | 64.06% | 7.848% |
| 81 | 12.063 | 3332 | 3335 | 3342 | rBV2 | 251    | 341    | 0.05%  | 0.006% |
| 82 | 12.189 | 3361 | 3374 | 3393 | rBV  | 378290 | 604651 | 79.89% | 9.786% |
| 83 | 12.410 | 3439 | 3443 | 3445 | rBV  | 281    | 210    | 0.03%  | 0.003% |
| 84 | 12.517 | 3473 | 3476 | 3480 | rVB2 | 271    | 185    | 0.02%  | 0.003% |
| 85 | 12.938 | 3605 | 3607 | 3612 | rBV  | 201    | 130    | 0.02%  | 0.002% |
| 86 | 13.381 | 3743 | 3745 | 3748 | rBV  | 309    | 196    | 0.03%  | 0.003% |
| 87 | 13.931 | 3914 | 3916 | 3922 | rBV2 | 449    | 273    | 0.04%  | 0.004% |

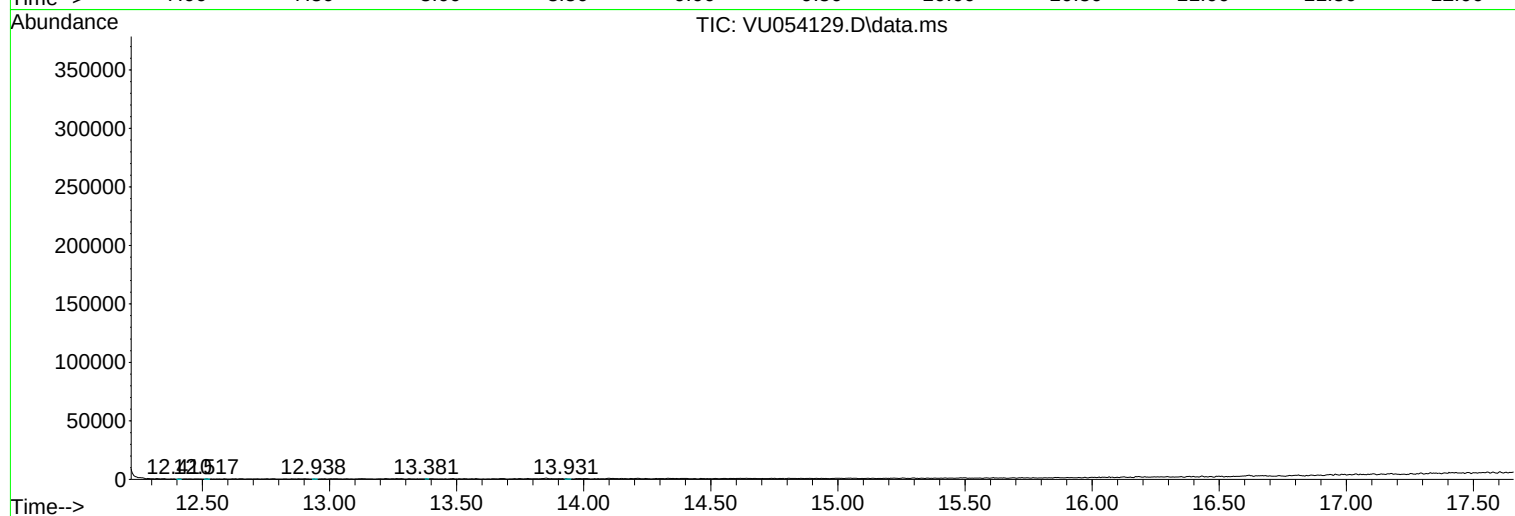
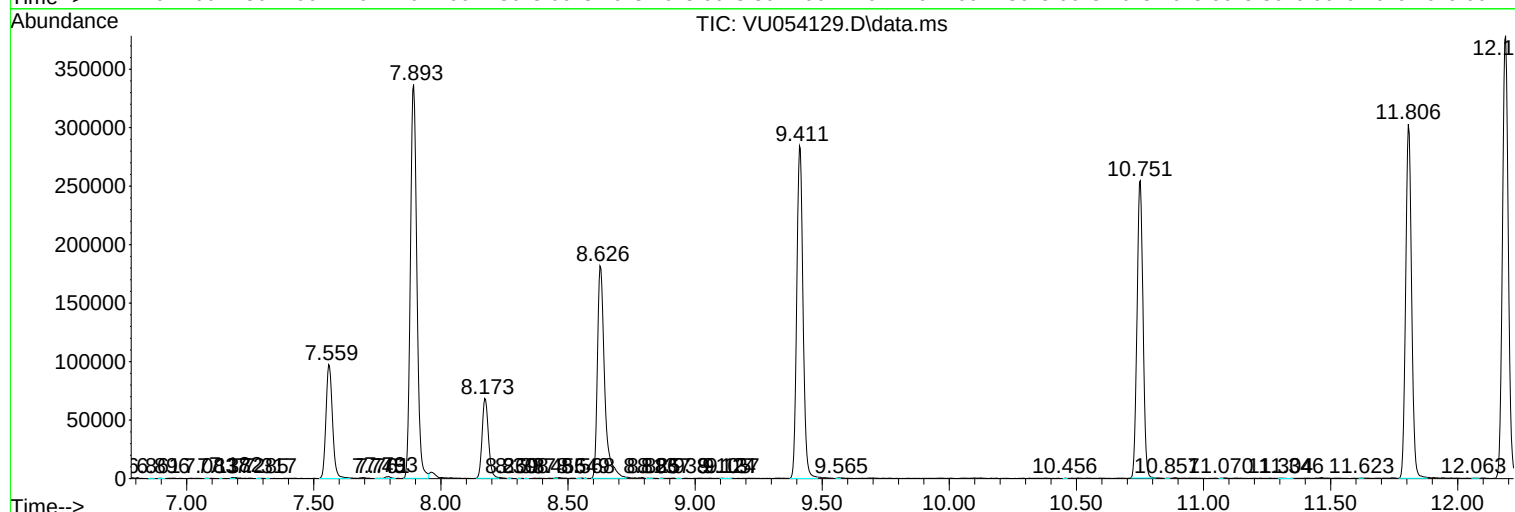
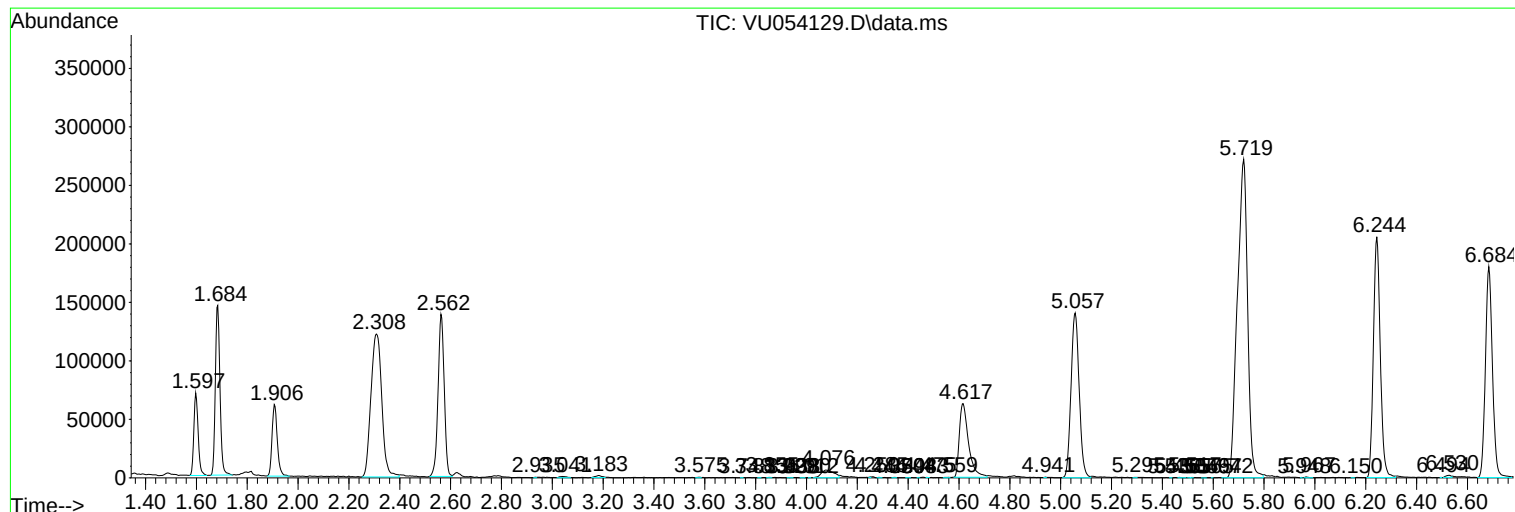
Sum of corrected areas: 6178424

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU050923\  
Data File : VU054129.D  
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Sample : 02694-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
JREN1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
Quant Title : VOC Analysis

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU050923\  
Data File : VU054129.D  
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Operator : JC/MD  
Sample : 02694-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
JREN1

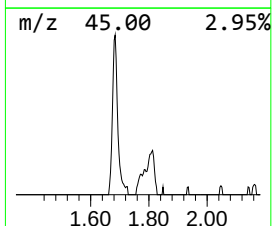
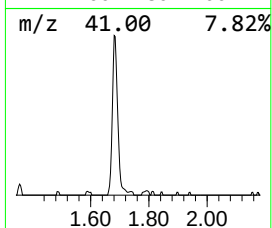
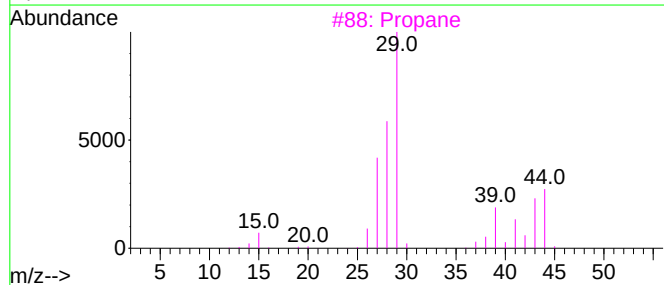
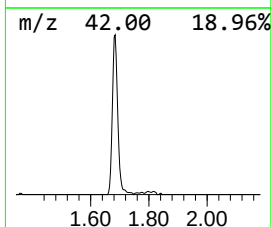
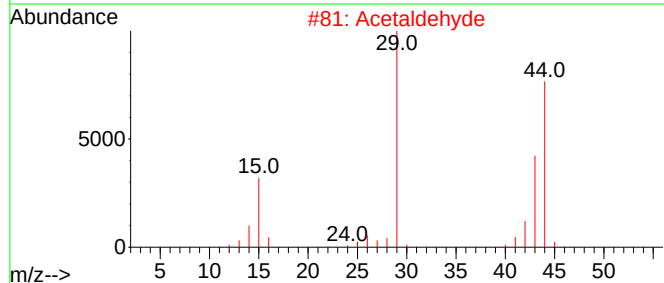
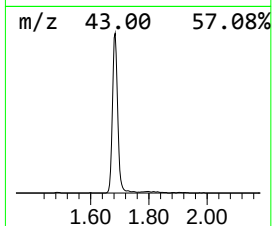
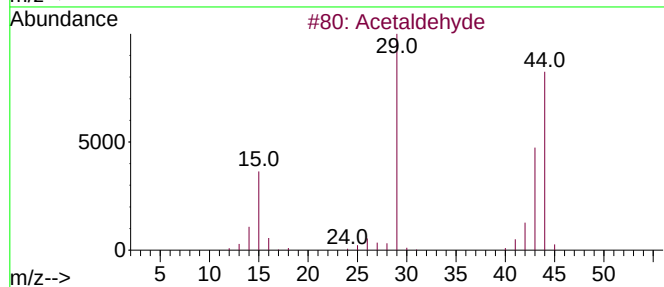
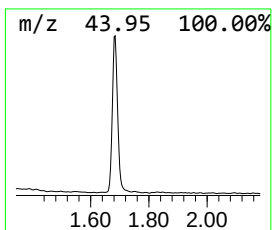
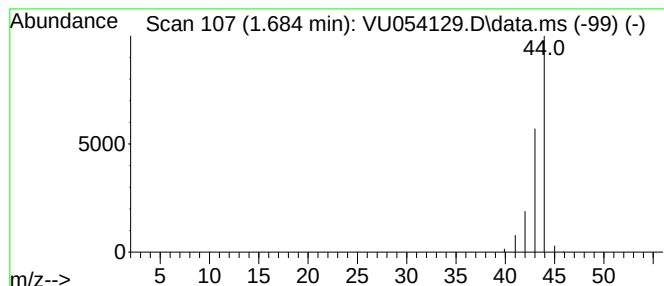
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 1 Acetaldehyde Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 1.684 | 23.23 ug/L | 181878 | 1,4-Difluorobenzene | 6.244 |

| Hit# | of | 5 | Tentative ID   | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------|----|---------|-------------|------|
| 1    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 74   |
| 2    |    |   | Acetaldehyde   | 44 | C2H4O   | 000075-07-0 | 74   |
| 3    |    |   | Propane        | 44 | C3H8    | 000074-98-6 | 5    |
| 4    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |
| 5    |    |   | Ethylene oxide | 44 | C2H4O   | 000075-21-8 | 5    |



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Instrument :  
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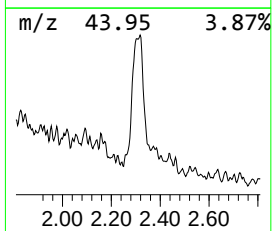
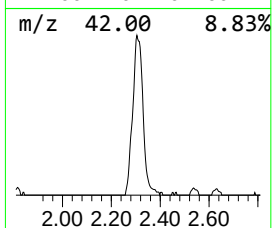
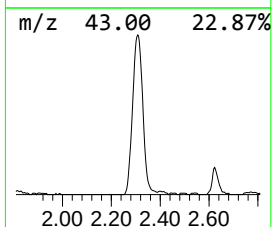
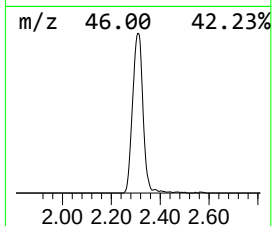
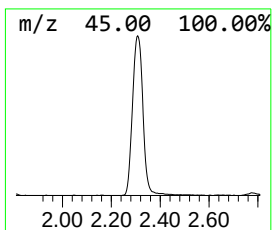
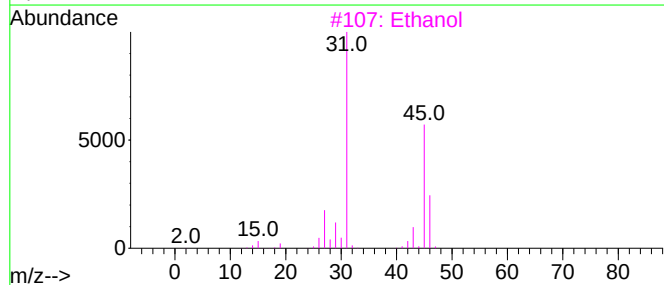
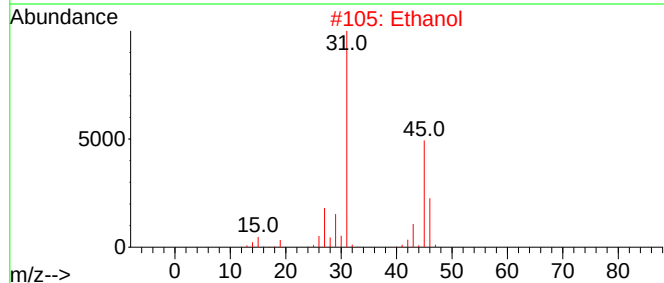
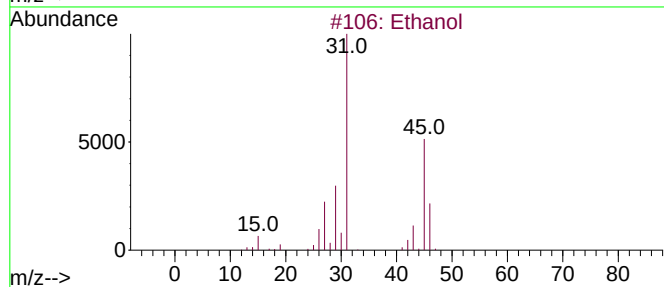
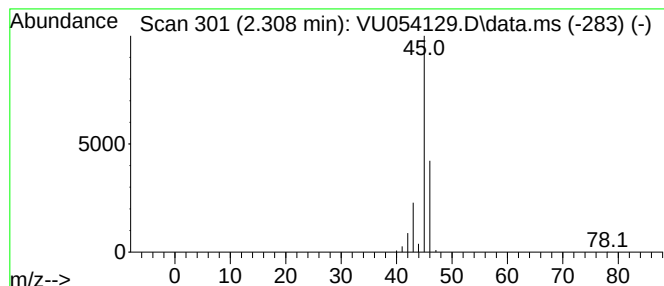
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 2 Ethanol Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 2.308 | 46.10 ug/L | 360909 | 1,4-Difluorobenzene | 6.244 |

| Hit# | of             | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----------------|---|--------------|----|---------|-------------|------|
| 1    | Ethanol        |   |              | 46 | C2H6O   | 000064-17-5 | 74   |
| 2    | Ethanol        |   |              | 46 | C2H6O   | 000064-17-5 | 64   |
| 3    | Ethanol        |   |              | 46 | C2H6O   | 000064-17-5 | 9    |
| 4    | Ethanol        |   |              | 46 | C2H6O   | 000064-17-5 | 9    |
| 5    | Dimethyl ether |   |              | 46 | C2H6O   | 000115-10-6 | 9    |



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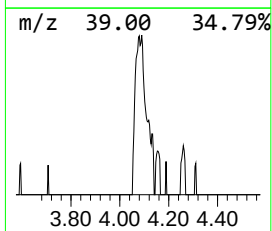
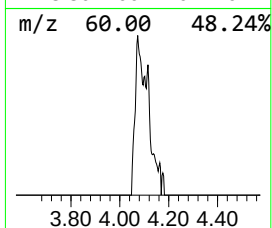
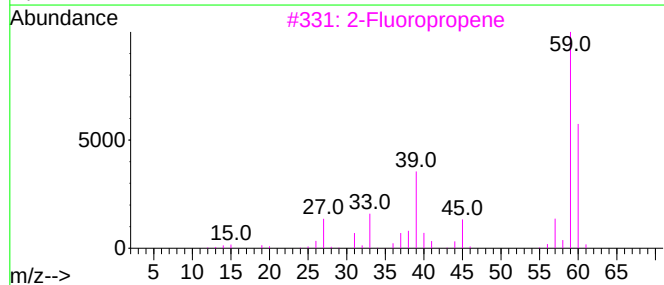
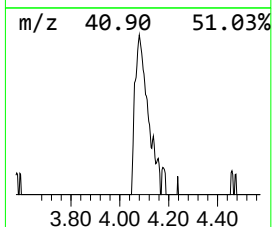
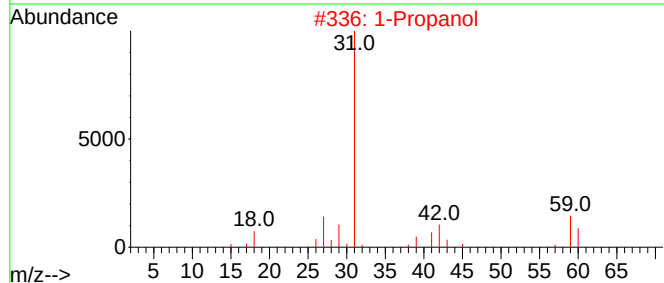
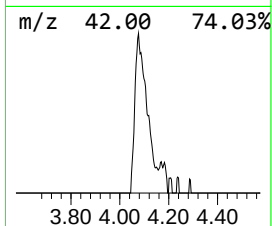
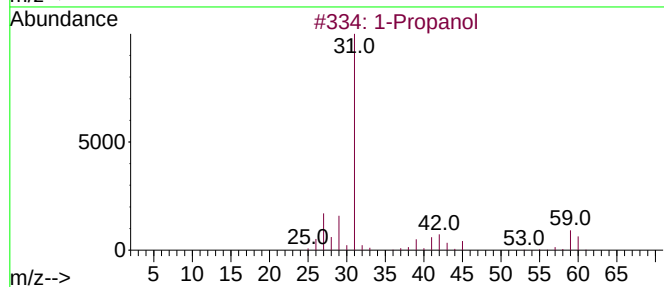
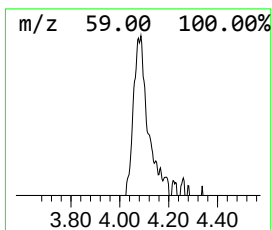
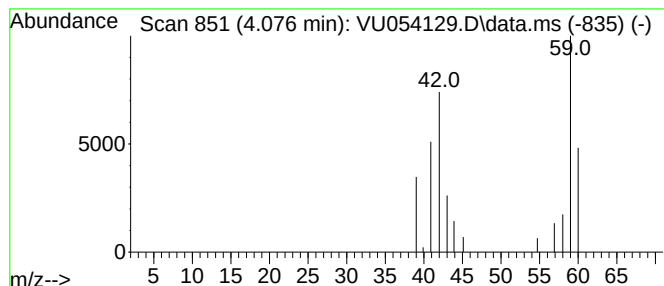
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
Quant Title : VOC Analysis

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

\*\*\*\*\*  
Peak Number 3 1-Propanol Concentration Rank 4

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 4.076 | 2.86 ug/L | 22370 | 1,4-Difluorobenzene | 6.244 |

| Hit# | of              | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|----|---------|-------------|------|
| 1    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 64   |
| 2    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 56   |
| 3    | 2-Fluoropropene |   |              | 60 | C3H5F   | 001184-60-7 | 43   |
| 4    | Allyl fluoride  |   |              | 60 | C3H5F   | 000818-92-8 | 38   |
| 5    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 9    |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU050923\  
Data File : VU054129.D  
Acq On : 09 May 2023 18:34  
Operator : JC/MD  
Sample : 02694-09  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
JREN1

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM042923WMA.M  
Quant Title : VOC Analysis

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

| TIC Top Hit name | RT    | EstConc | Units | Response | --Internal Standard-- |       |        |      |
|------------------|-------|---------|-------|----------|-----------------------|-------|--------|------|
|                  |       |         |       |          | #                     | RT    | Resp   | Conc |
| Acetaldehyde     | 1.684 | 23.2    | ug/L  | 181878   | 1                     | 6.244 | 391413 | 50.0 |
| Ethanol          | 2.308 | 46.1    | ug/L  | 360909   | 1                     | 6.244 | 391413 | 50.0 |
| 1-Propanol       | 4.076 | 2.9     | ug/L  | 22370    | 1                     | 6.244 | 391413 | 50.0 |