

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092921\  
 Data File : VU045015.D  
 Acq On : 30 Sep 2021 00:42  
 Operator : SY/MD  
 Sample : VU0929WBS02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0929WBS02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % 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\82U092821W.M  
 Title : SW846 8260

Signal : TIC: VU045015.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         | 1.385       | 7             | 14          | 31           | rBV      | 63437          | 69311         | 3.58%           | 0.205%        |
| 2         | 1.475       | 32            | 42          | 49           | rVV4     | 9228           | 21235         | 1.10%           | 0.063%        |
| 3         | 1.520       | 49            | 56          | 67           | rVB      | 68411          | 76894         | 3.97%           | 0.228%        |
| 4         | 1.607       | 75            | 83          | 90           | rBV      | 79926          | 87327         | 4.51%           | 0.259%        |
| 5         | 1.684       | 99            | 107         | 118          | rBV      | 50462          | 57125         | 2.95%           | 0.169%        |
| 6         | 1.829       | 146           | 152         | 168          | rVB      | 59093          | 72505         | 3.74%           | 0.215%        |
| 7         | 1.909       | 168           | 177         | 190          | rVB      | 49178          | 68172         | 3.52%           | 0.202%        |
| 8         | 2.124       | 234           | 244         | 262          | rVB      | 103428         | 159009        | 8.21%           | 0.471%        |
| 9         | 2.378       | 312           | 323         | 339          | rVB      | 88463          | 131263        | 6.78%           | 0.389%        |
| 10        | 2.488       | 347           | 357         | 371          | rVB      | 17976          | 29525         | 1.52%           | 0.087%        |
| 11        | 2.575       | 371           | 384         | 394          | rBV      | 202655         | 347841        | 17.96%          | 1.030%        |
| 12        | 2.629       | 394           | 401         | 419          | rVB      | 114470         | 194276        | 10.03%          | 0.575%        |
| 13        | 2.719       | 419           | 429         | 440          | rBV      | 34190          | 57374         | 2.96%           | 0.170%        |
| 14        | 2.790       | 440           | 451         | 473          | rVB      | 75242          | 130563        | 6.74%           | 0.387%        |
| 15        | 2.922       | 473           | 492         | 497          | rBV2     | 99073          | 194657        | 10.05%          | 0.576%        |
| 16        | 3.047       | 518           | 531         | 553          | rVB      | 97783          | 193185        | 9.97%           | 0.572%        |
| 17        | 3.211       | 562           | 582         | 602          | rBV      | 47697          | 129700        | 6.70%           | 0.384%        |
| 18        | 3.317       | 602           | 615         | 621          | rVV      | 173356         | 358705        | 18.52%          | 1.062%        |
| 19        | 3.359       | 623           | 628         | 652          | rVB2     | 202862         | 441617        | 22.80%          | 1.308%        |
| 20        | 3.870       | 771           | 787         | 800          | rBV2     | 69779          | 163245        | 8.43%           | 0.483%        |
| 21        | 3.957       | 800           | 814         | 864          | rVB2     | 278774         | 981025        | 50.64%          | 2.905%        |
| 22        | 4.668       | 1015          | 1035        | 1041         | rBV2     | 167117         | 377848        | 19.50%          | 1.119%        |
| 23        | 4.780       | 1059          | 1070        | 1085         | rBV3     | 93290          | 280043        | 14.46%          | 0.829%        |
| 24        | 4.976       | 1116          | 1131        | 1144         | rBV2     | 147050         | 323153        | 16.68%          | 0.957%        |
| 25        | 5.054       | 1144          | 1155        | 1186         | rVB2     | 195741         | 632100        | 32.63%          | 1.872%        |
| 26        | 5.295       | 1213          | 1230        | 1245         | rBV2     | 177176         | 528974        | 27.31%          | 1.566%        |
| 27        | 5.378       | 1245          | 1256        | 1271         | rVV3     | 346297         | 816357        | 42.14%          | 2.417%        |
| 28        | 5.459       | 1271          | 1281        | 1291         | rVV      | 102666         | 210871        | 10.89%          | 0.624%        |
| 29        | 5.526       | 1291          | 1302        | 1322         | rVB2     | 190677         | 400637        | 20.68%          | 1.186%        |
| 30        | 5.703       | 1343          | 1357        | 1369         | rBV      | 188853         | 384835        | 19.87%          | 1.140%        |
| 31        | 5.780       | 1369          | 1381        | 1405         | rVB2     | 216822         | 553852        | 28.59%          | 1.640%        |
| 32        | 5.915       | 1410          | 1423        | 1441         | rBV      | 109707         | 216988        | 11.20%          | 0.643%        |
| 33        | 6.253       | 1513          | 1528        | 1548         | rBV      | 384240         | 725831        | 37.47%          | 2.149%        |
| 34        | 6.546       | 1605          | 1619        | 1642         | rBV      | 130358         | 242323        | 12.51%          | 0.718%        |
| 35        | 6.767       | 1672          | 1688        | 1717         | rBV4     | 179209         | 570870        | 29.47%          | 1.690%        |
| 36        | 6.922       | 1723          | 1736        | 1742         | rBV      | 80728          | 149329        | 7.71%           | 0.442%        |

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 Sample : VU0929WBS02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 VU0929WBS02

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : OFF

Filtering: 5

Sampling : 1

Min Area: 1 % 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\82U092821W.M  
 Title : SW846 8260

|    |       |      |      |      |      |        |        |        |        |
|----|-------|------|------|------|------|--------|--------|--------|--------|
| 37 | 6.963 | 1742 | 1749 | 1763 | rVV3 | 159275 | 290414 | 14.99% | 0.860% |
| 38 | 7.044 | 1763 | 1774 | 1783 | rVV  | 114180 | 204073 | 10.53% | 0.604% |
| 39 | 7.108 | 1783 | 1794 | 1826 | rVB  | 110094 | 237485 | 12.26% | 0.703% |
| 40 | 7.369 | 1862 | 1875 | 1889 | rBV2 | 34350  | 66195  | 3.42%  | 0.196% |

|    |       |      |      |      |     |        |         |        |        |
|----|-------|------|------|------|-----|--------|---------|--------|--------|
| 41 | 7.468 | 1892 | 1906 | 1928 | rVB | 289374 | 484266  | 25.00% | 1.434% |
| 42 | 7.610 | 1937 | 1950 | 1970 | rVB | 132200 | 225359  | 11.63% | 0.667% |
| 43 | 7.796 | 1993 | 2008 | 2028 | rBV | 686841 | 1217658 | 62.86% | 3.606% |
| 44 | 7.902 | 2028 | 2041 | 2052 | rVV | 618129 | 1059375 | 54.69% | 3.137% |
| 45 | 7.973 | 2052 | 2063 | 2081 | rVB | 275759 | 465232  | 24.02% | 1.378% |

|    |       |      |      |      |      |        |        |        |        |
|----|-------|------|------|------|------|--------|--------|--------|--------|
| 46 | 8.214 | 2126 | 2138 | 2156 | rBV  | 134024 | 219591 | 11.34% | 0.650% |
| 47 | 8.336 | 2163 | 2176 | 2187 | rBV  | 164548 | 265151 | 13.69% | 0.785% |
| 48 | 8.404 | 2187 | 2197 | 2213 | rVB  | 161823 | 278211 | 14.36% | 0.824% |
| 49 | 8.558 | 2230 | 2245 | 2266 | rBV2 | 201131 | 561246 | 28.97% | 1.662% |
| 50 | 8.690 | 2273 | 2286 | 2313 | rBV  | 554393 | 930671 | 48.04% | 2.756% |

|    |       |      |      |      |      |        |         |        |        |
|----|-------|------|------|------|------|--------|---------|--------|--------|
| 51 | 8.838 | 2313 | 2332 | 2348 | rVV2 | 185979 | 441645  | 22.80% | 1.308% |
| 52 | 8.928 | 2348 | 2360 | 2376 | rVB  | 77331  | 132118  | 6.82%  | 0.391% |
| 53 | 9.420 | 2500 | 2513 | 2520 | rBV  | 593395 | 1049445 | 54.17% | 3.107% |
| 54 | 9.539 | 2538 | 2550 | 2554 | rBV  | 170546 | 268962  | 13.88% | 0.796% |
| 55 | 9.574 | 2554 | 2561 | 2577 | rVB  | 325269 | 516999  | 26.69% | 1.531% |

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 56 | 9.697  | 2585 | 2599 | 2615 | rBV  | 621775 | 1016511 | 52.47% | 3.010% |
| 57 | 10.111 | 2712 | 2728 | 2745 | rBV5 | 496892 | 1001239 | 51.68% | 2.965% |
| 58 | 10.298 | 2773 | 2786 | 2788 | rBV  | 86124  | 121306  | 6.26%  | 0.359% |
| 59 | 10.323 | 2788 | 2794 | 2819 | rVB  | 194290 | 332447  | 17.16% | 0.984% |
| 60 | 10.487 | 2832 | 2845 | 2856 | rBV  | 361349 | 556831  | 28.74% | 1.649% |

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 61 | 10.552 | 2856 | 2865 | 2880 | rVV  | 120187 | 192871 | 9.96%  | 0.571% |
| 62 | 10.635 | 2880 | 2891 | 2913 | rVB  | 502299 | 782438 | 40.39% | 2.317% |
| 63 | 10.786 | 2924 | 2938 | 2945 | rBV  | 404761 | 649253 | 33.51% | 1.922% |
| 64 | 10.828 | 2945 | 2951 | 2966 | rVV2 | 213290 | 462358 | 23.87% | 1.369% |
| 65 | 10.909 | 2966 | 2976 | 2990 | rVV  | 360246 | 549449 | 28.36% | 1.627% |

|    |        |      |      |      |      |        |         |        |        |
|----|--------|------|------|------|------|--------|---------|--------|--------|
| 66 | 10.989 | 2990 | 3001 | 3015 | rVV  | 301934 | 476143  | 24.58% | 1.410% |
| 67 | 11.095 | 3021 | 3034 | 3053 | rVB3 | 606334 | 1028212 | 53.08% | 3.045% |
| 68 | 11.426 | 3123 | 3137 | 3144 | rBV2 | 469417 | 819767  | 42.32% | 2.427% |
| 69 | 11.471 | 3144 | 3151 | 3166 | rVB  | 368892 | 563930  | 29.11% | 1.670% |
| 70 | 11.645 | 3187 | 3205 | 3219 | rBV  | 360754 | 567466  | 29.29% | 1.680% |

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 71 | 11.748 | 3222 | 3237 | 3244 | rBV  | 262005 | 409298  | 21.13%  | 1.212% |
| 72 | 11.812 | 3244 | 3257 | 3279 | rVB4 | 710554 | 1937231 | 100.00% | 5.736% |
| 73 | 12.214 | 3365 | 3382 | 3400 | rBV2 | 565421 | 891367  | 46.01%  | 2.639% |
| 74 | 12.478 | 3449 | 3464 | 3477 | rBV  | 169119 | 280549  | 14.48%  | 0.831% |
| 75 | 12.999 | 3611 | 3626 | 3648 | rBV2 | 81390  | 141324  | 7.30%   | 0.418% |

|    |        |      |      |      |     |        |        |        |        |
|----|--------|------|------|------|-----|--------|--------|--------|--------|
| 76 | 13.449 | 3752 | 3766 | 3782 | rBV | 330387 | 496008 | 25.60% | 1.469% |
|----|--------|------|------|------|-----|--------|--------|--------|--------|

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Sample : VU0929WBS02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0929WBS02

Integration Parameters: RTEINT.P  
Integrator: RTE  
Smoothing : OFF Filtering: 5  
Sampling : 1 Min Area: 1 % 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\82U092821W.M  
Title : SW846 8260

|    |        |      |      |      |      |        |        |        |        |
|----|--------|------|------|------|------|--------|--------|--------|--------|
| 77 | 13.844 | 3876 | 3889 | 3905 | rBV  | 185619 | 292700 | 15.11% | 0.867% |
| 78 | 14.024 | 3935 | 3945 | 3955 | rBV2 | 135210 | 203983 | 10.53% | 0.604% |
| 79 | 14.089 | 3955 | 3965 | 3987 | rVB  | 254821 | 407163 | 21.02% | 1.206% |
| 80 | 14.333 | 4029 | 4041 | 4061 | rVB  | 189141 | 299502 | 15.46% | 0.887% |

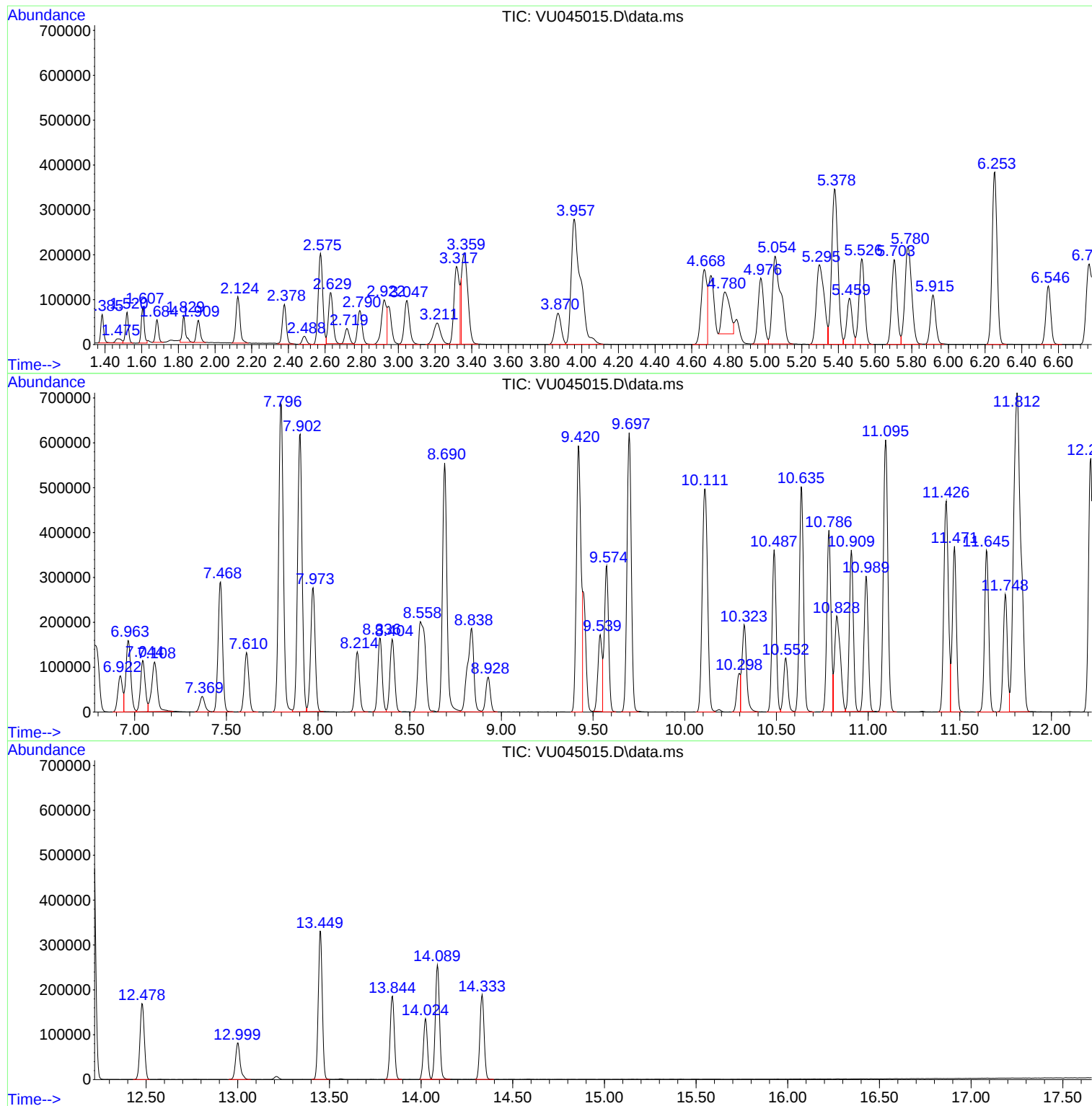
Sum of corrected areas: 33772007

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092921\  
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Sample : VU0929WBS02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0929WBS02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092821W.M  
Quant Title : SW846 8260

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092921\  
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Sample : VU0929WBS02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0929WBS02

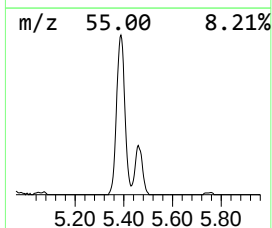
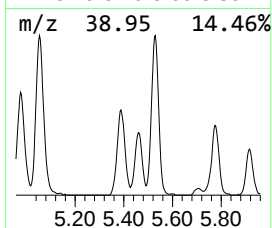
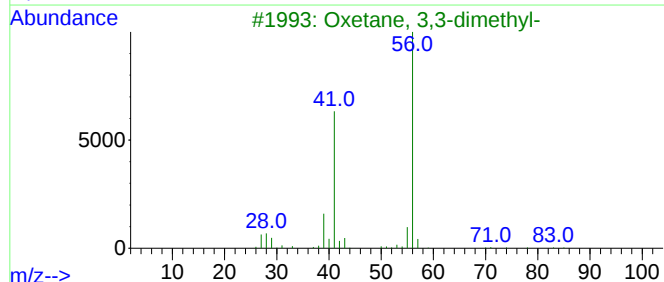
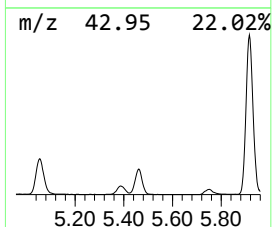
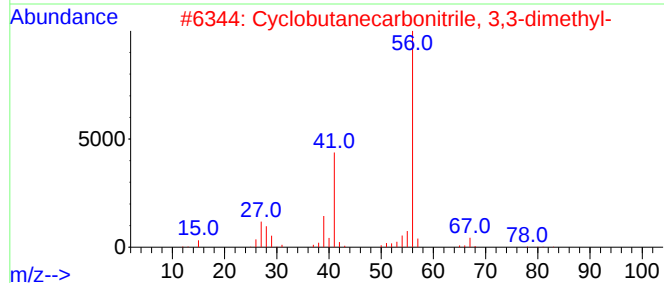
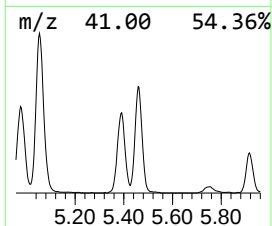
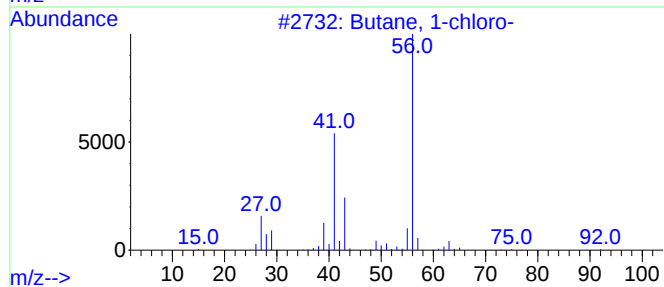
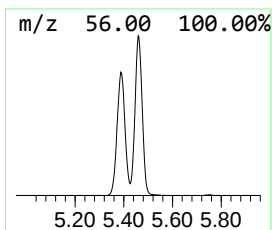
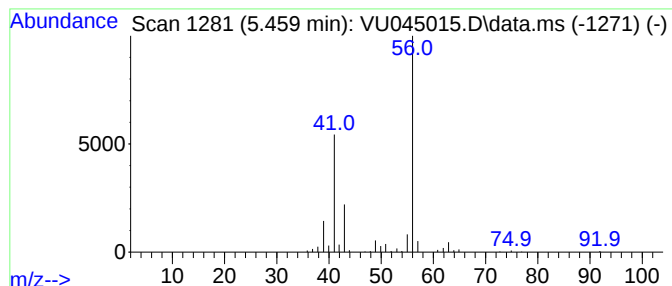
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092821W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 1 Butane, 1-chloro- Concentration Rank 2

| R.T.  | EstConc    | Area   | Relative to ISTD   | R.T.  |
|-------|------------|--------|--------------------|-------|
| 5.459 | 12.92 ug/l | 210871 | Pentafluorobenzene | 5.375 |

| Hit# | of | 5 | Tentative ID                           | MW  | MolForm | CAS#        | Qual |
|------|----|---|----------------------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 1-chloro-                      | 92  | C4H9Cl  | 000109-69-3 | 91   |
| 2    |    |   | Cyclobutanecarbonitrile, 3,3-dimethyl- | 109 | C7H11N  | 053783-86-1 | 64   |
| 3    |    |   | Oxetane, 3,3-dimethyl-                 | 86  | C5H10O  | 006921-35-3 | 38   |
| 4    |    |   | Butane, 2-chloro-                      | 92  | C4H9Cl  | 000078-86-4 | 9    |
| 5    |    |   | 2-Propenal                             | 56  | C3H4O   | 000107-02-8 | 9    |



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Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0929WBS02

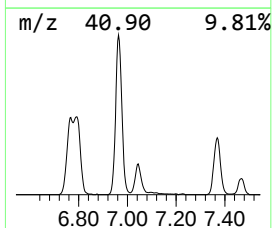
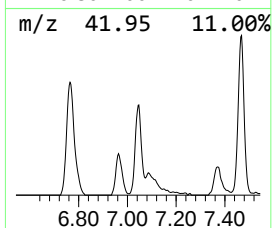
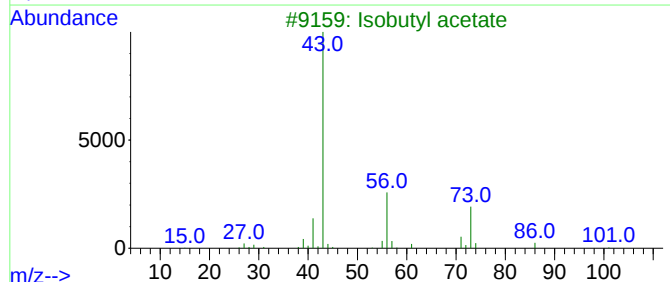
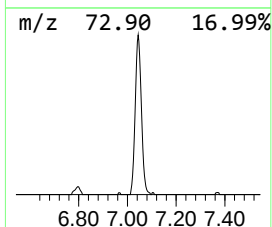
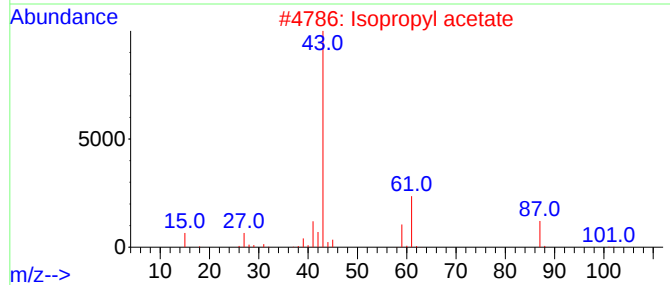
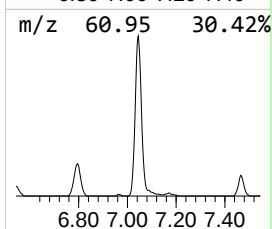
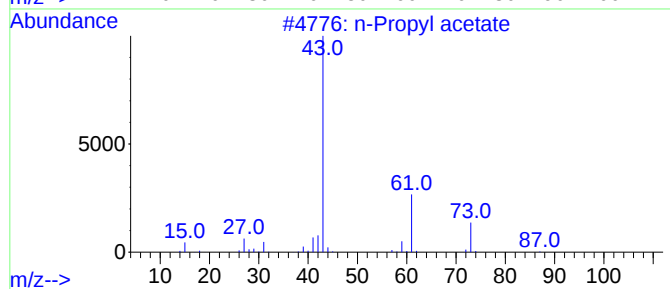
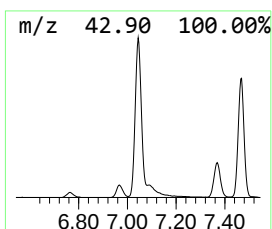
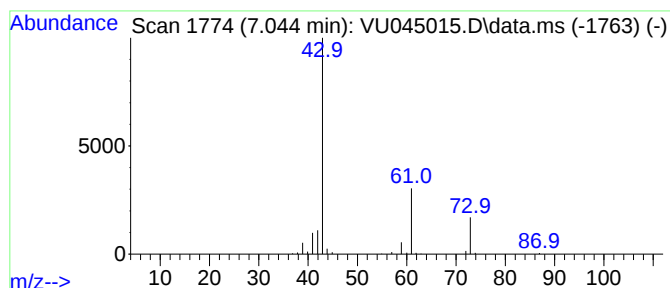
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092821W.M  
Quant Title : SW846 8260

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

\*\*\*\*\*  
Peak Number 2 n-Propyl acetate Concentration Rank 1

| R.T.  | EstConc    | Area   | Relative to ISTD    | R.T.  |
|-------|------------|--------|---------------------|-------|
| 7.044 | 14.06 ug/l | 204073 | 1,4-Difluorobenzene | 6.253 |

| Hit# | of | 5 | Tentative ID      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-------------------|-----|---------|-------------|------|
| 1    |    |   | n-Propyl acetate  | 102 | C5H10O2 | 000109-60-4 | 83   |
| 2    |    |   | Isopropyl acetate | 102 | C5H10O2 | 000108-21-4 | 38   |
| 3    |    |   | Isobutyl acetate  | 116 | C6H12O2 | 000110-19-0 | 9    |
| 4    |    |   | 1-Butanamine      | 73  | C4H11N  | 000109-73-9 | 5    |
| 5    |    |   | Butane, 2-methyl- | 72  | C5H12   | 000078-78-4 | 4    |



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Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
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Quant Title : SW846 8260

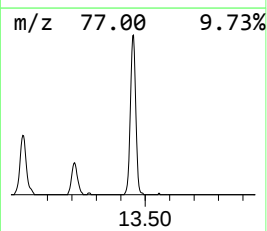
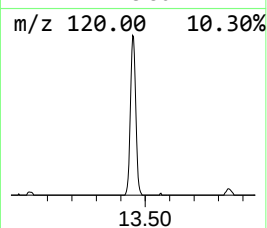
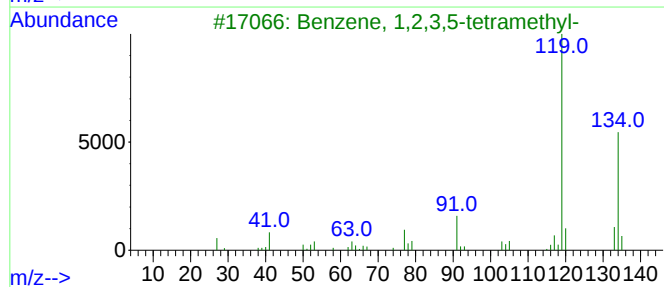
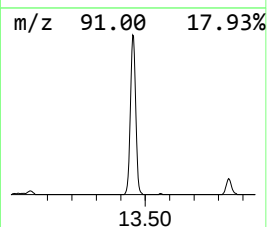
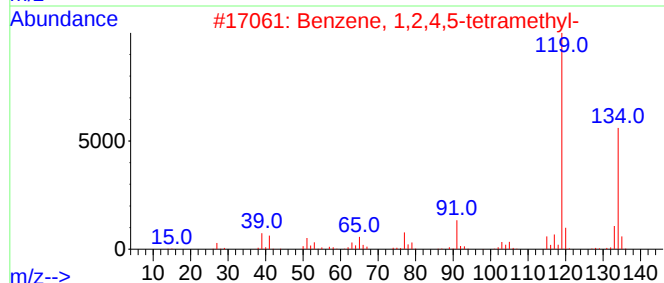
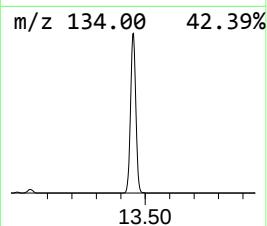
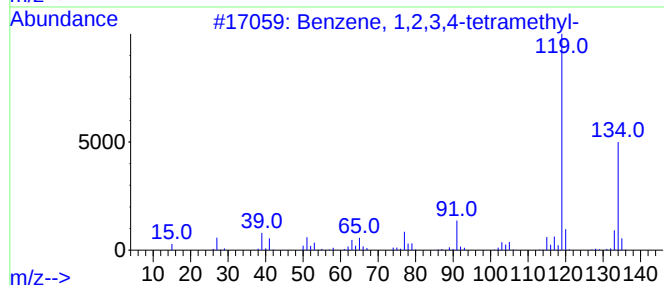
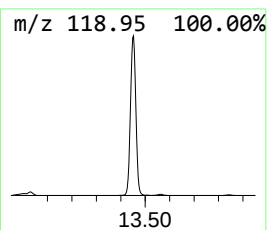
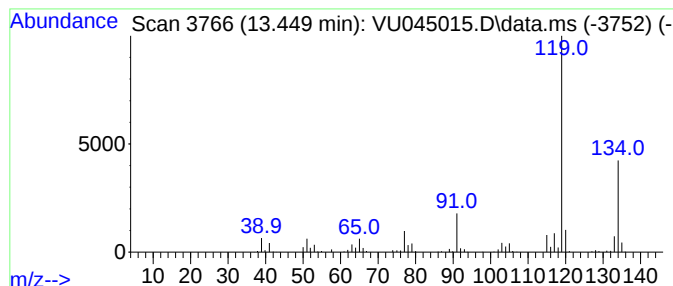
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 3 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 3

| R.T.   | EstConc    | Area   | Relative to ISTD       | R.T.   |
|--------|------------|--------|------------------------|--------|
| 13.449 | 12.80 ug/l | 496008 | 1,4-Dichlorobenzene-d4 | 11.815 |

| Hit# | of | 5 | Tentative ID                   | MW  | MolForm | CAS#        | Qual |
|------|----|---|--------------------------------|-----|---------|-------------|------|
| 1    |    |   | Benzene, 1,2,3,4-tetramethyl-  | 134 | C10H14  | 000488-23-3 | 95   |
| 2    |    |   | Benzene, 1,2,4,5-tetramethyl-  | 134 | C10H14  | 000095-93-2 | 95   |
| 3    |    |   | Benzene, 1,2,3,5-tetramethyl-  | 134 | C10H14  | 000527-53-7 | 95   |
| 4    |    |   | o-Cymene                       | 134 | C10H14  | 000527-84-4 | 95   |
| 5    |    |   | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14  | 000934-74-7 | 94   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092921\  
Data File : VU045015.D  
Acq On : 30 Sep 2021 00:42  
Operator : SY/MD  
Sample : VU0929WBS02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 34 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
VU0929WBS02

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092821W.M  
Quant Title : SW846 8260

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

| TIC Top Hit name   | RT     | EstConc | Units | Response | --Internal Standard-- |        |         |      |
|--------------------|--------|---------|-------|----------|-----------------------|--------|---------|------|
|                    |        |         |       |          | #                     | RT     | Resp    | Conc |
| Butane, 1-chloro-  | 5.459  | 12.9    | ug/l  | 210871   | 1                     | 5.375  | 816357  | 50.0 |
| n-Propyl acetate   | 7.044  | 14.1    | ug/l  | 204073   | 2                     | 6.253  | 725831  | 50.0 |
| Benzene, 1,2,3,... | 13.449 | 12.8    | ug/l  | 496008   | 4                     | 11.815 | 1937230 | 50.0 |