

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032622\  
 Data File : VU047715.D  
 Acq On : 26 Mar 2022 17:36  
 Operator : SY/MD  
 Sample : N2081-15DL 10X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5Y2DL

Quant Time: Mar 28 05:10:45 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Mon Mar 28 05:05:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T.    | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|---------|-------|----------|----------|--------|----------|
| -----                         |         |       |          |          |        |          |
| Internal Standards            |         |       |          |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.250   | 114   | 324062   | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417   | 117   | 329687   | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812  | 152   | 179207   | 50.000   | ug/L   | 0.00     |
| System Monitoring Compounds   |         |       |          |          |        |          |
| 4) Vinyl Chloride-d3          | 1.600   | 65    | 95438    | 40.612   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =      | 81.220%  |
| 7) Chloroethane-d5            | 1.915   | 69    | 91271    | 49.257   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =      | 98.520%  |
| 11) 1,1-Dichloroethene-d2     | 2.571   | 63    | 136447   | 31.736   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 63.480%  |
| 21) 2-Butanone-d5             | 4.632   | 46    | 230144   | 114.100  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =      | 114.100% |
| 24) Chloroform-d              | 5.066   | 84    | 200128   | 46.543   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 93.080%  |
| 26) 1,2-Dichloroethane-d4     | 5.703   | 65    | 132285   | 50.162   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 100.320% |
| 32) Benzene-d6                | 5.729   | 84    | 400418   | 48.267   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =      | 96.540%  |
| 36) 1,2-Dichloropropane-d6    | 6.690   | 67    | 129835   | 50.961   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =      | 101.920% |
| 41) Toluene-d8                | 7.899   | 98    | 364648   | 45.115   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 90.240%  |
| 43) trans-1,3-Dichloroprop... | 8.179   | 79    | 61027    | 47.281   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =      | 94.560%  |
| 47) 2-Hexanone-d5             | 8.635   | 63    | 169941   | 113.944  | ug/L   | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =      | 113.940% |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758  | 84    | 215511   | 49.290   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =      | 98.580%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.195  | 152   | 162722   | 51.038   | ug/L   | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =      | 102.080% |
| Target Compounds              |         |       |          |          |        |          |
|                               |         |       |          |          | Qvalue |          |
| 5) Vinyl chloride             | 1.607   | 62    | 8575     | 2.926    | ug/L   | 91       |
| 8) Chloroethane               | 1.938   | 64    | 67754    | 36.832   | ug/L   | 100      |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.571   | 101   | 1414     | 0.592    | ug/L # | 18       |
| 12) 1,1-Dichloroethene        | 2.584   | 96    | 4034     | 1.815    | ug/L # | 1        |
| 17) trans-1,2-Dichloroethene  | 3.359   | 96    | 1321     | 0.551    | ug/L   | 93       |
| 19) 1,1-Dichloroethane        | 3.874   | 63    | 126220   | 30.524   | ug/L   | 99       |
| 20) cis-1,2-Dichloroethene    | 4.671   | 96    | 102255   | 38.901   | ug/L   | 95       |
| 30) 1,1,1-Trichloroethane     | 5.320   | 97    | 261691   | 70.003   | ug/L   | 99       |
| 31) Carbon tetrachloride      | 5.320   | 117   | 36637    | 10.853   | ug/L   | 96       |
| 39) cis-1,3-Dichloropropene   | 7.568   | 75    | 3479     | 0.924    | ug/L # | 36       |
| 42) Toluene                   | 7.973   | 91    | 24146    | 2.306    | ug/L   | 96       |
| 44) trans-1,3-Dichloropropene | 8.182   | 75    | 2609     | 0.694    | ug/L # | 77       |
| 46) Tetrachloroethene         | 8.555   | 164   | 3573     | 1.589    | ug/L   | 94       |
| 53) m,p-Xylene                | 9.693   | 106   | 5293     | 1.225    | ug/L   | 92       |
| 54) o-Xylene                  | 10.102  | 106   | 3045     | 0.718    | ug/L   | 95       |
| 63) 1,2,4-Trimethylbenzene    | 11.468  | 105   | 14411    | 1.805    | ug/L   | 100      |
| 71) Naphthalene               | 14.092  | 128   | 17553    | 1.537    | ug/L   | 99       |
| -----                         |         |       |          |          |        |          |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU032622\  
Data File : VU047715.D  
Acq On : 26 Mar 2022 17:36  
Operator : SY/MD  
Sample : N2081-15DL 10X  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Y2DL

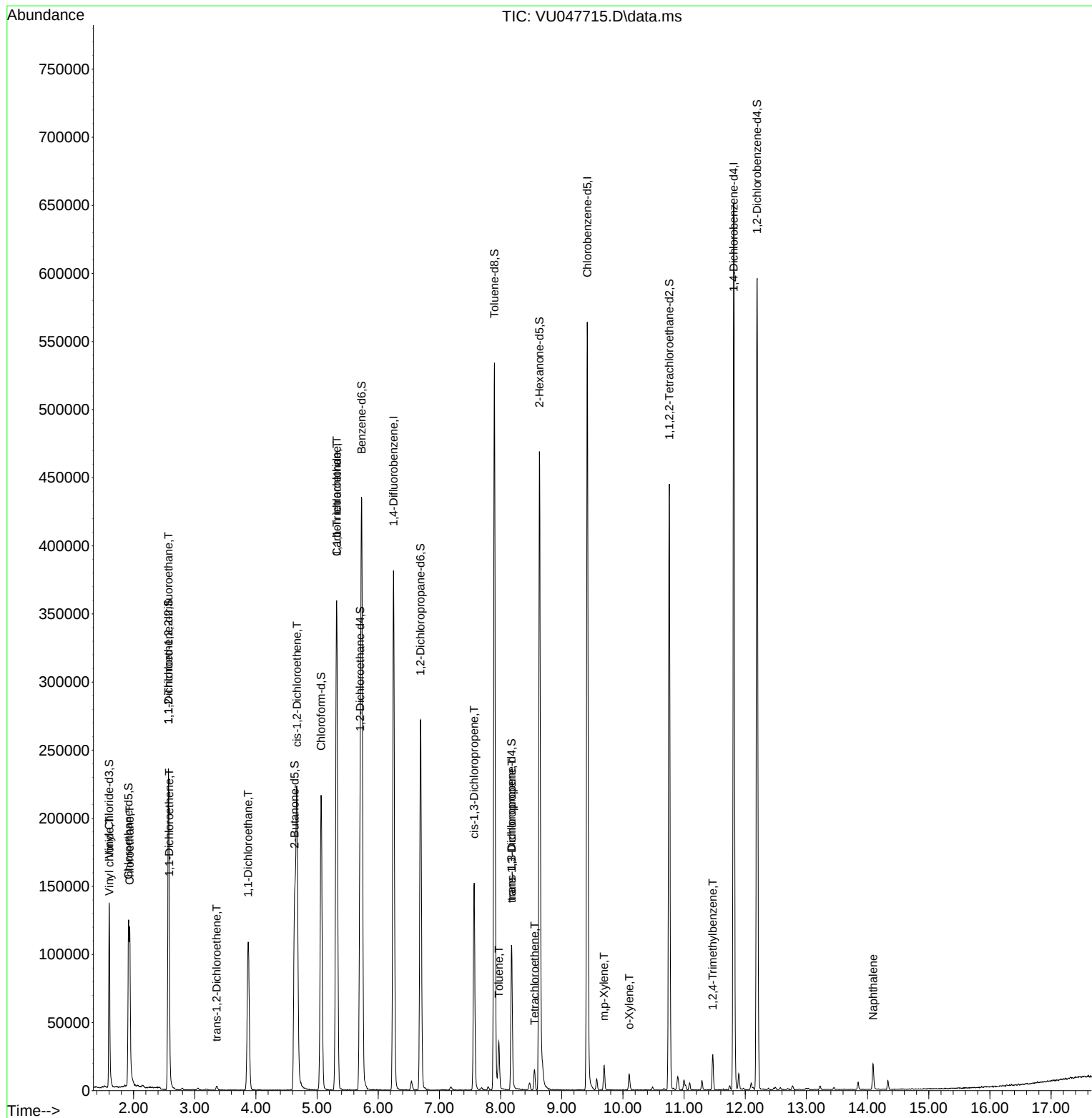
Quant Time: Mar 28 05:10:45 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM032422WMA.M  
Quant Title : VOC Analysis  
QLast Update : Mon Mar 28 05:05:44 2022  
Response via : Initial Calibration

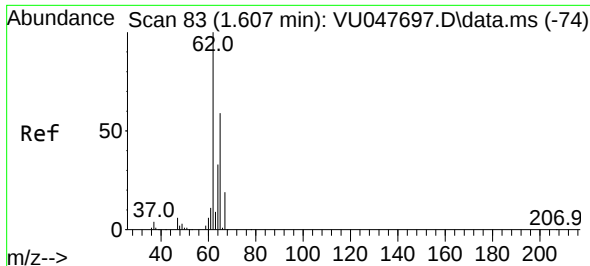
| Compound                                                             | R.T. | QIon | Response | Conc | Units | Dev(Min) |
|----------------------------------------------------------------------|------|------|----------|------|-------|----------|
| -----                                                                |      |      |          |      |       |          |
| (#)=qualifier out of range (m)=manual integration (+)=signals summed |      |      |          |      |       |          |

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Quant Title : VOC Analysis  
QLast Update : Mon Mar 28 05:05:44 2022  
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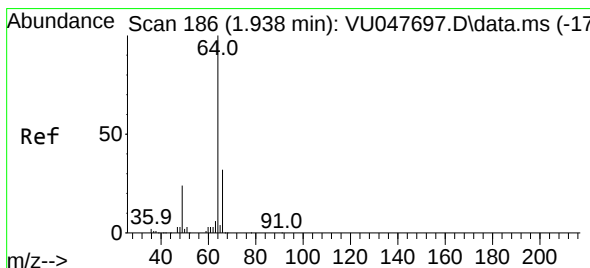
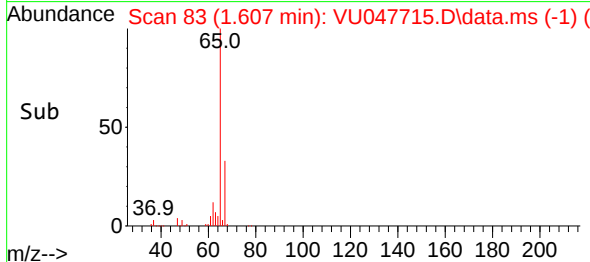
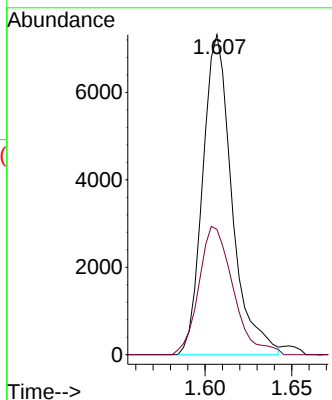
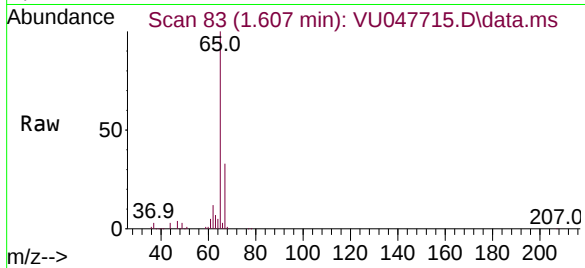




#5  
 Vinyl chloride  
 Concen: 2.926 ug/L  
 RT: 1.607 min Scan# 83  
 Delta R.T. -0.000 min  
 Lab File: VU047715.D  
 Acq: 26 Mar 2022 17:36

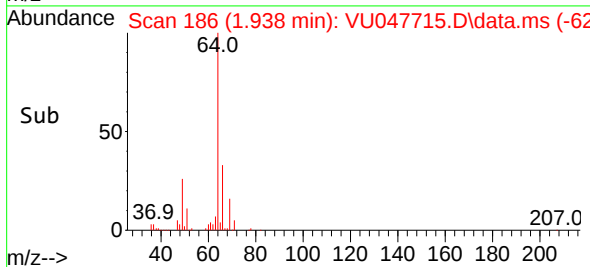
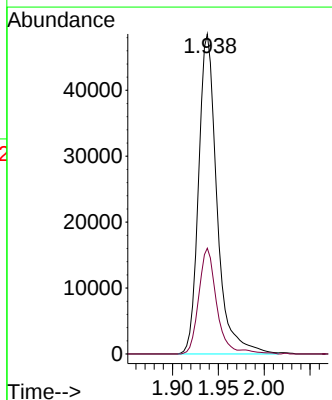
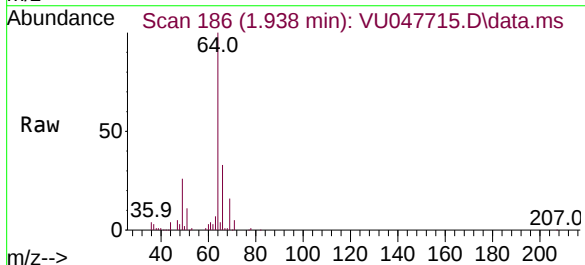
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5Y2DL

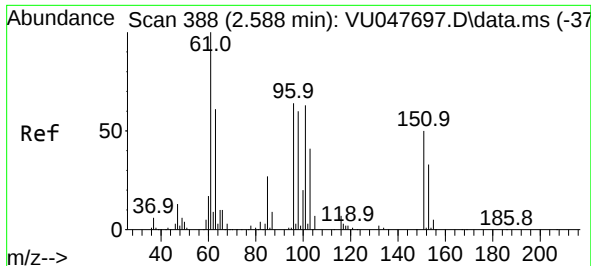
Tgt Ion: 62 Resp: 8575  
 Ion Ratio Lower Upper  
 62 100  
 64 39.1 23.7 43.9



#8  
 Chloroethane  
 Concen: 36.832 ug/L  
 RT: 1.938 min Scan# 186  
 Delta R.T. -0.000 min  
 Lab File: VU047715.D  
 Acq: 26 Mar 2022 17:36

Tgt Ion: 64 Resp: 67754  
 Ion Ratio Lower Upper  
 64 100  
 66 33.1 23.3 43.3

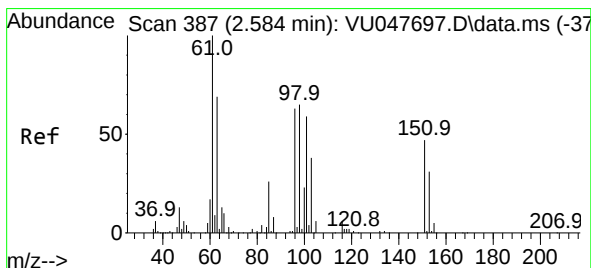
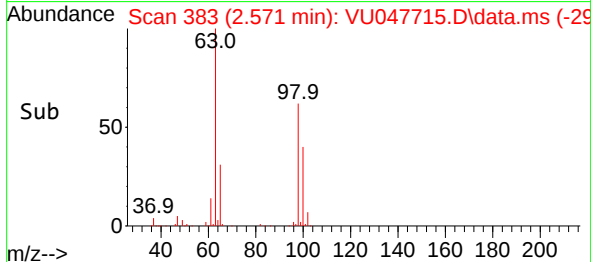
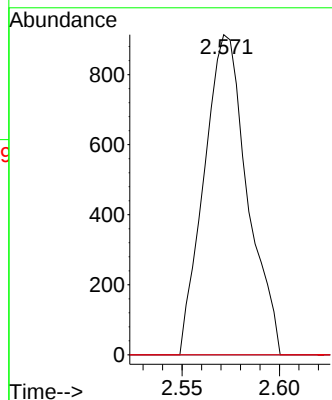
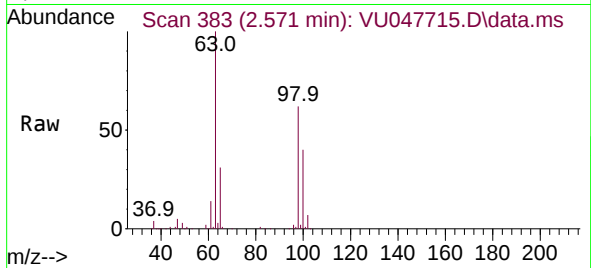




#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.592 ug/L  
 RT: 2.571 min Scan# 383  
 Delta R.T. -0.016 min  
 Lab File: VU047715.D  
 Acq: 26 Mar 2022 17:36

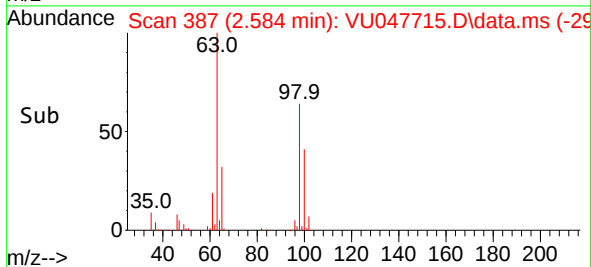
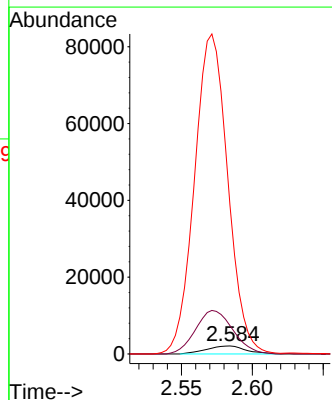
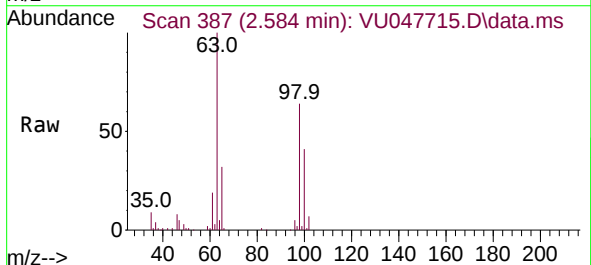
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EW5Y2DL

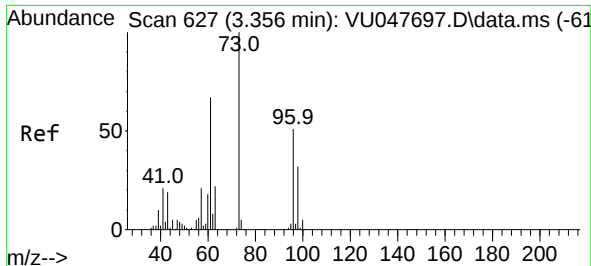
Tgt Ion:101 Resp: 1414  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 32.8 49.2#  
 151 0.0 63.0 94.6#



#12  
 1,1-Dichloroethene  
 Concen: 1.815 ug/L  
 RT: 2.584 min Scan# 387  
 Delta R.T. -0.000 min  
 Lab File: VU047715.D  
 Acq: 26 Mar 2022 17:36

Tgt Ion: 96 Resp: 4034  
 Ion Ratio Lower Upper  
 96 100  
 61 352.4 113.1 210.1#  
 63 1848.9 94.8 176.0#

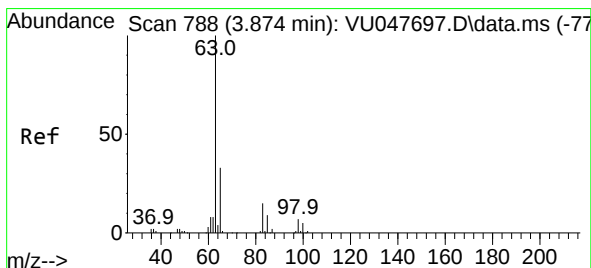
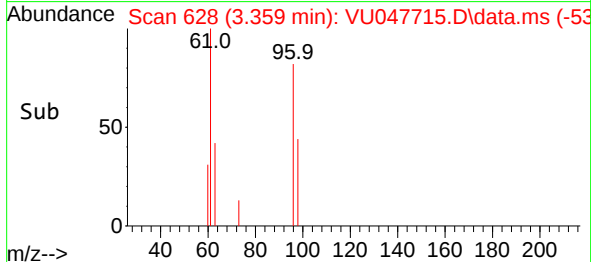
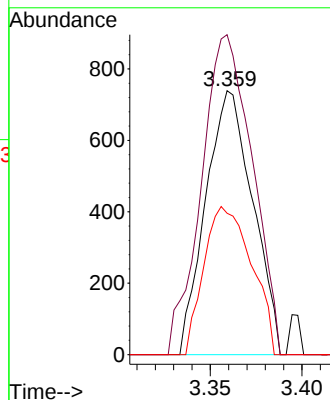
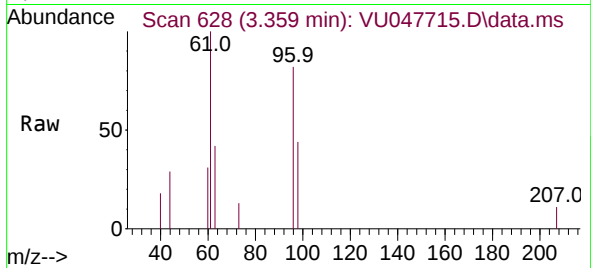




#17  
trans-1,2-Dichloroethene  
Concen: 0.551 ug/L  
RT: 3.359 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

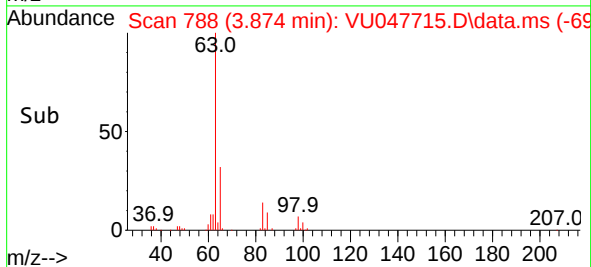
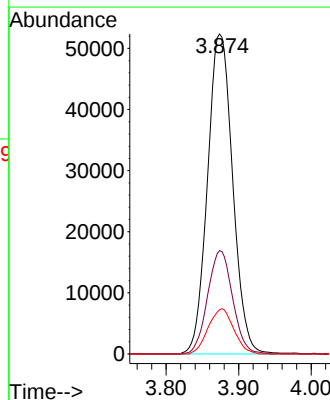
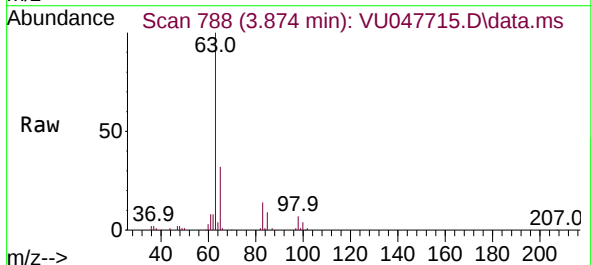
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Y2DL

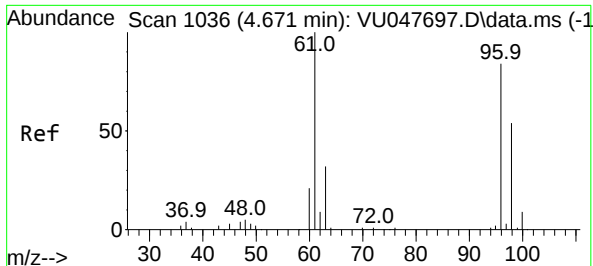
Tgt Ion: 96 Resp: 1321  
Ion Ratio Lower Upper  
96 100  
61 121.2 88.4 164.2  
98 53.6 43.3 80.5



#19  
1,1-Dichloroethane  
Concen: 30.524 ug/L  
RT: 3.874 min Scan# 788  
Delta R.T. -0.000 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

Tgt Ion: 63 Resp: 126220  
Ion Ratio Lower Upper  
63 100  
65 32.3 22.0 41.0  
83 13.8 9.7 18.1





#20

cis-1,2-Dichloroethene

Concen: 38.901 ug/L

RT: 4.671 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VU047715.D

Acq: 26 Mar 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

EW5Y2DL

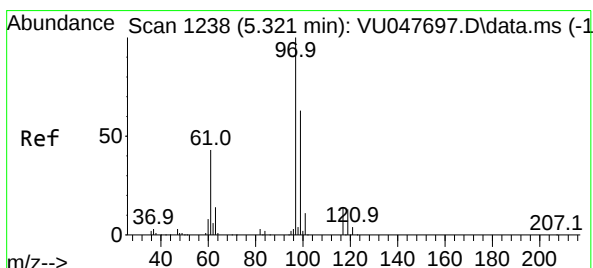
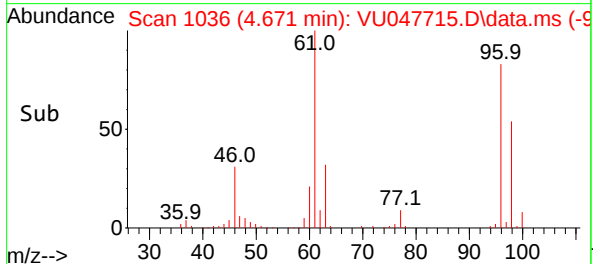
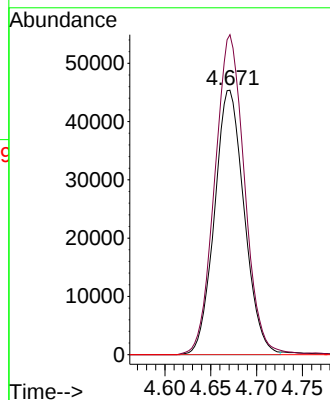
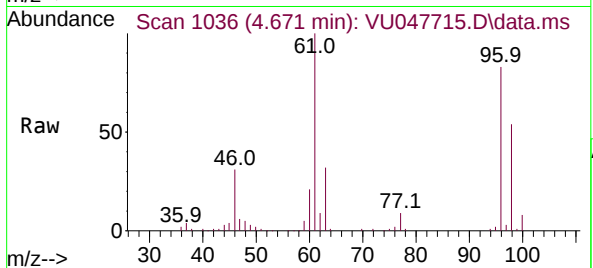
Tgt Ion: 96 Resp: 102255

Ion Ratio Lower Upper

96 100

61 121.0 80.7 149.9

68 0.0 0.0 0.0



#30

1,1,1-Trichloroethane

Concen: 70.003 ug/L

RT: 5.320 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VU047715.D

Acq: 26 Mar 2022 17:36

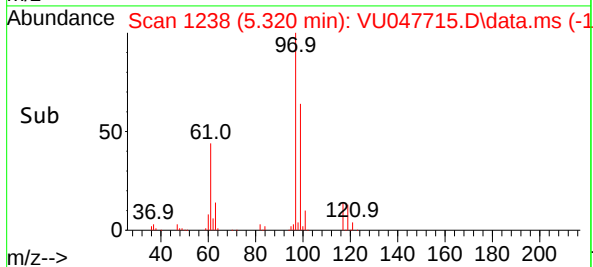
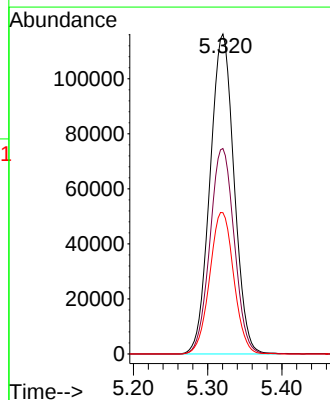
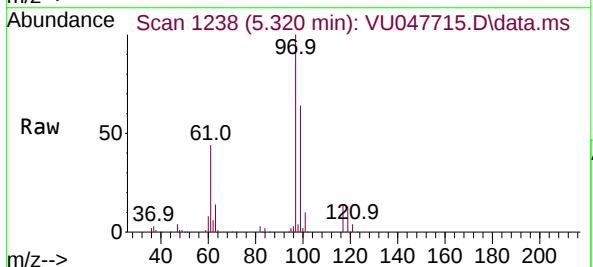
Tgt Ion: 97 Resp: 261691

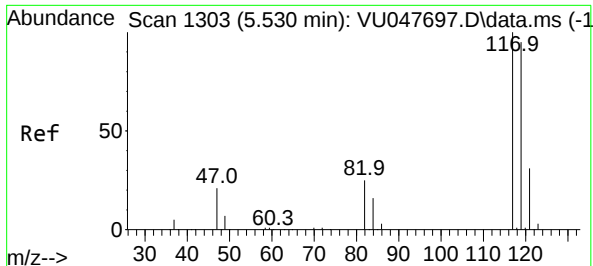
Ion Ratio Lower Upper

97 100

99 65.0 51.6 77.4

61 44.2 34.2 51.4

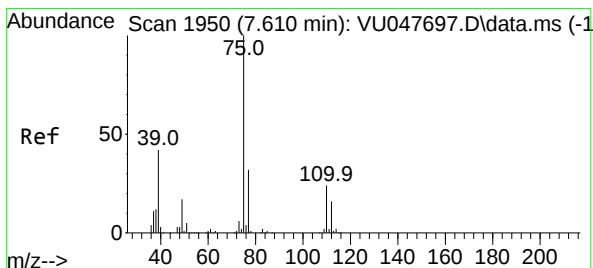
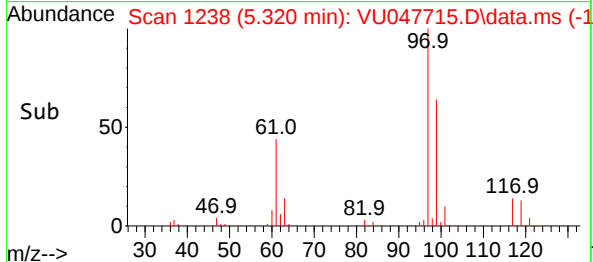
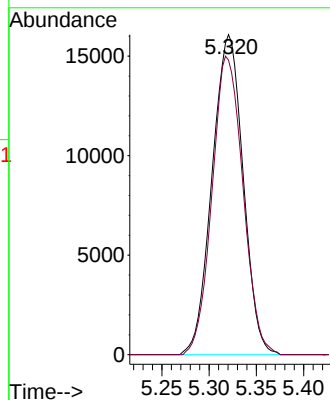
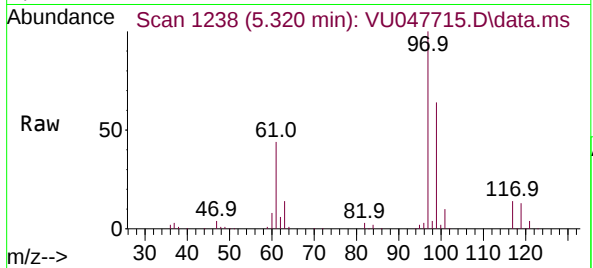




#31  
Carbon tetrachloride  
Concen: 10.853 ug/L  
RT: 5.320 min Scan# 11  
Delta R.T. -0.209 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

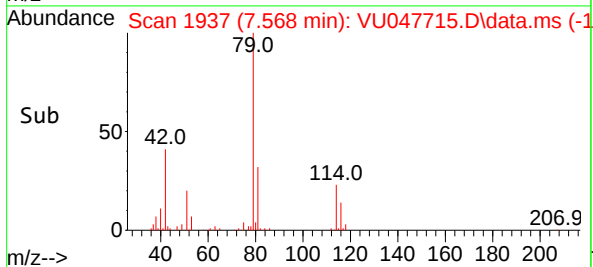
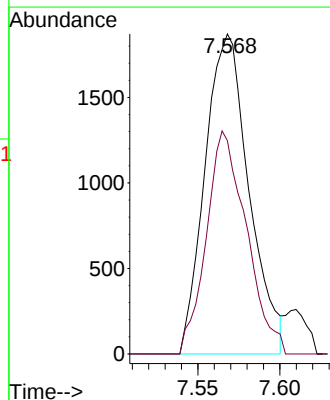
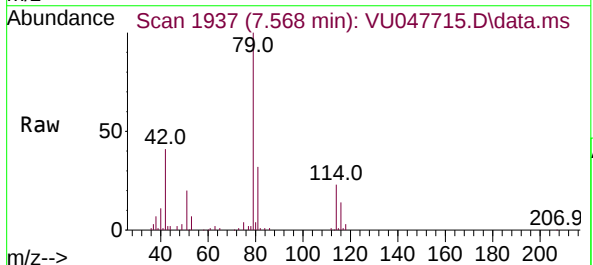
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Y2DL

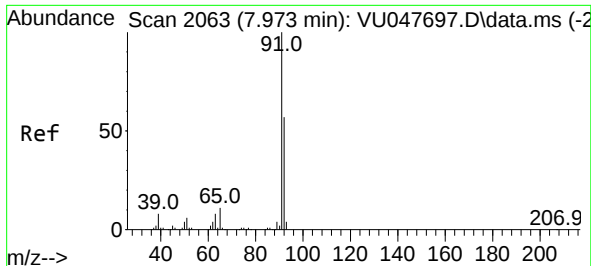
Tgt Ion:117 Resp: 36637  
Ion Ratio Lower Upper  
117 100  
119 93.0 77.2 115.8



#39  
cis-1,3-Dichloropropene  
Concen: 0.924 ug/L  
RT: 7.568 min Scan# 1937  
Delta R.T. -0.042 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

Tgt Ion: 75 Resp: 3479  
Ion Ratio Lower Upper  
75 100  
77 66.6 21.8 40.6#





#42

Toluene

Concen: 2.306 ug/L

RT: 7.973 min Scan# 2063

Delta R.T. -0.000 min

Lab File: VU047715.D

Acq: 26 Mar 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

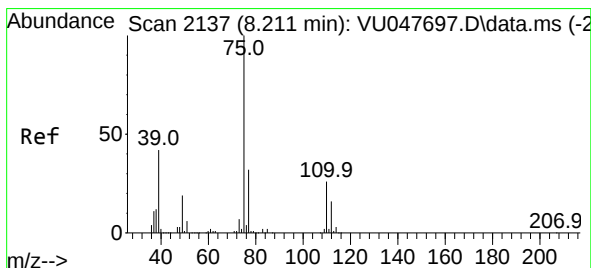
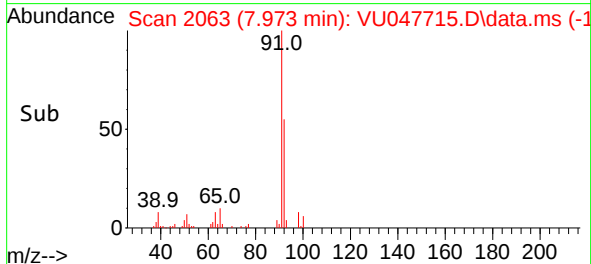
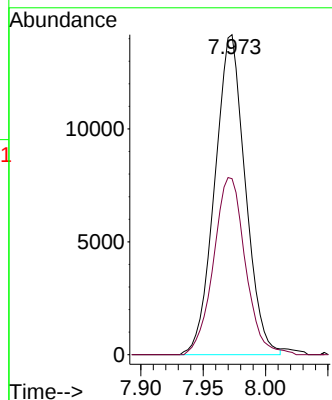
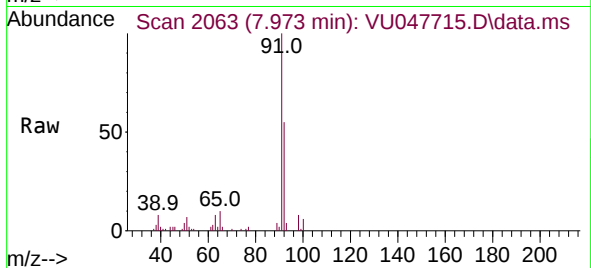
EW5Y2DL

Tgt Ion: 91 Resp: 24146

Ion Ratio Lower Upper

91 100

92 55.0 40.4 75.0



#44

trans-1,3-Dichloropropene

Concen: 0.694 ug/L

RT: 8.182 min Scan# 2128

Delta R.T. -0.029 min

Lab File: VU047715.D

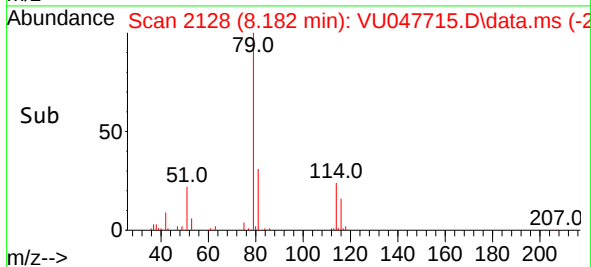
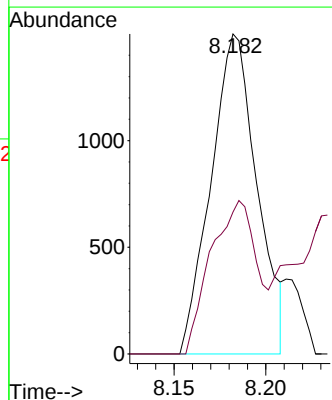
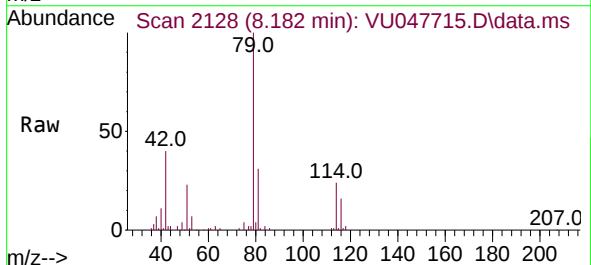
Acq: 26 Mar 2022 17:36

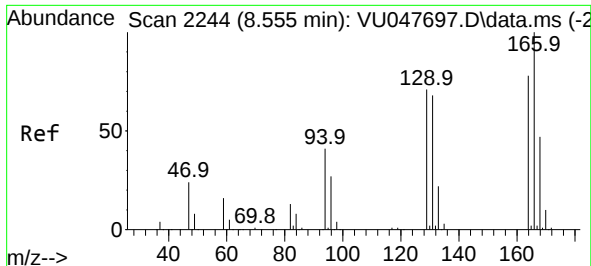
Tgt Ion: 75 Resp: 2609

Ion Ratio Lower Upper

75 100

77 44.3 22.0 40.8#

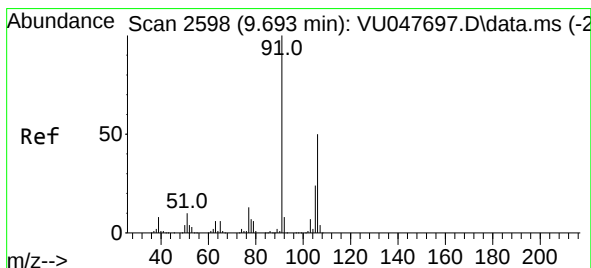
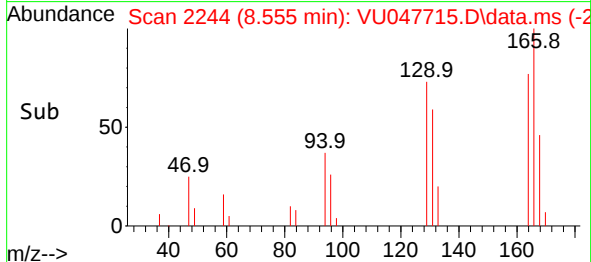
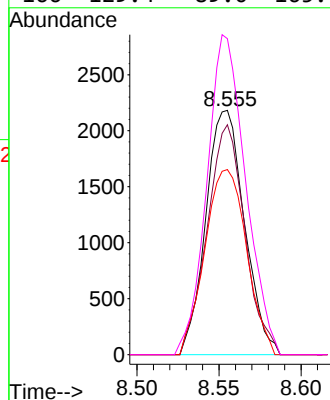
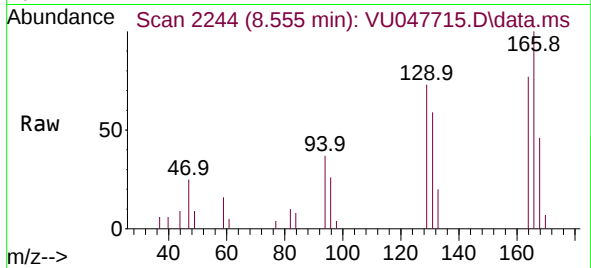




#46  
Tetrachloroethene  
Concen: 1.589 ug/L  
RT: 8.555 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

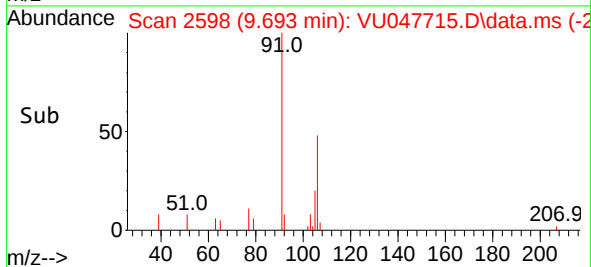
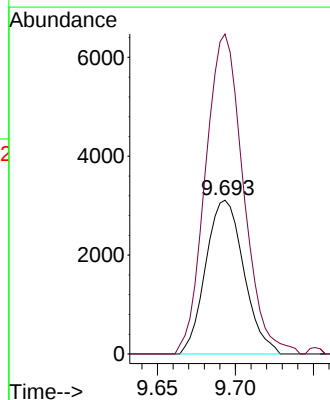
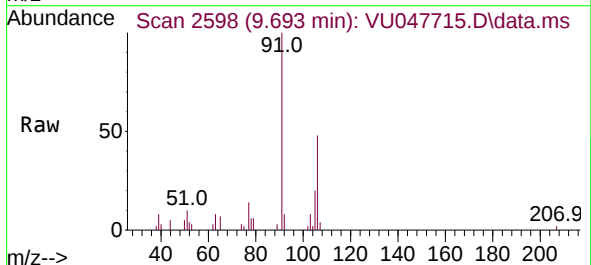
Instrument :  
MSVOA\_U  
ClientSampleId :  
EW5Y2DL

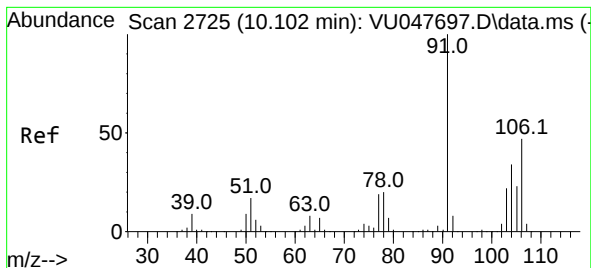
Tgt Ion:164 Resp: 3573  
Ion Ratio Lower Upper  
164 100  
129 94.1 62.4 116.0  
131 75.8 60.7 112.7  
166 129.4 89.0 165.4



#53  
m,p-Xylene  
Concen: 1.225 ug/L  
RT: 9.693 min Scan# 2598  
Delta R.T. -0.000 min  
Lab File: VU047715.D  
Acq: 26 Mar 2022 17:36

Tgt Ion:106 Resp: 5293  
Ion Ratio Lower Upper  
106 100  
91 208.2 137.7 255.7





#54

o-Xylene

Concen: 0.718 ug/L

RT: 10.102 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU047715.D

Acq: 26 Mar 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

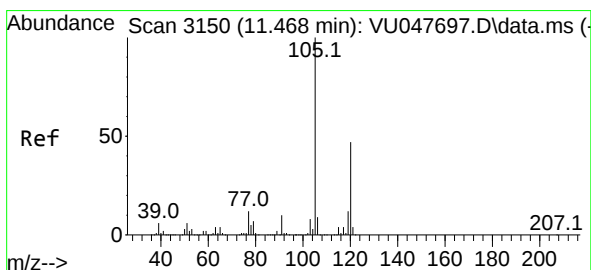
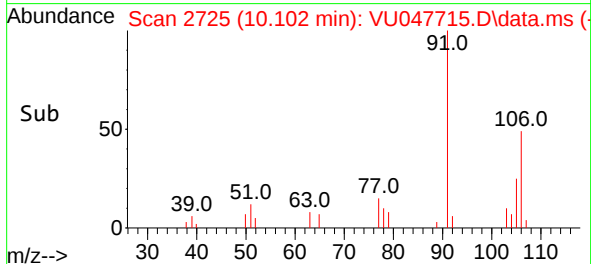
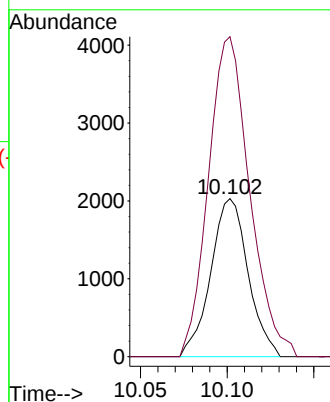
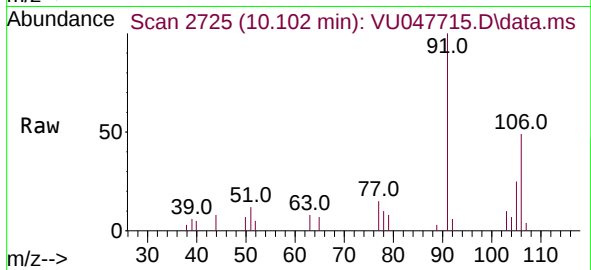
EW5Y2DL

Tgt Ion:106 Resp: 3045

Ion Ratio Lower Upper

106 100

91 202.3 146.7 272.5



#63

1,2,4-Trimethylbenzene

Concen: 1.805 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU047715.D

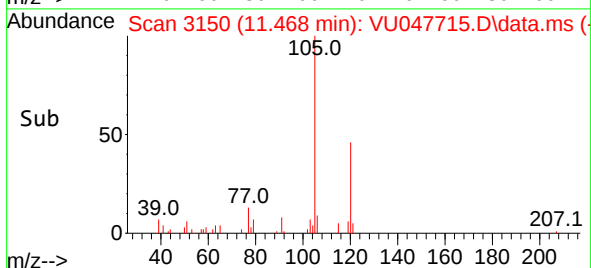
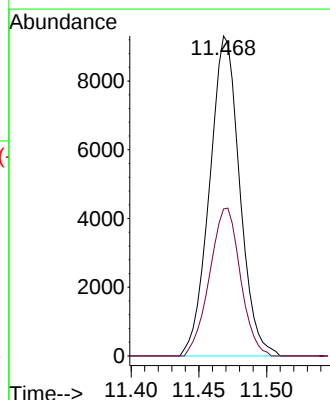
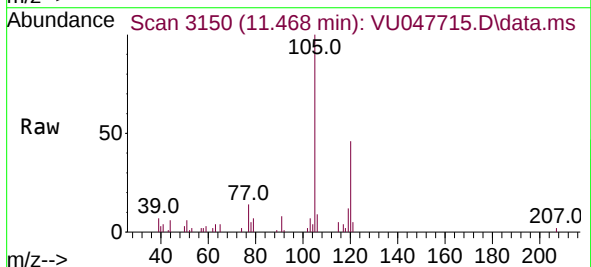
Acq: 26 Mar 2022 17:36

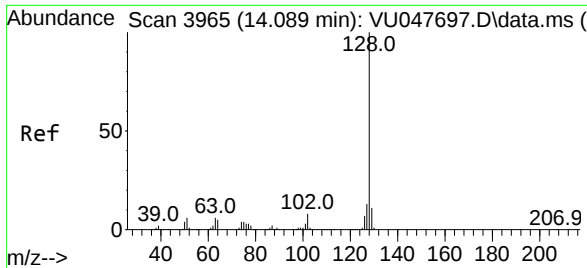
Tgt Ion:105 Resp: 14411

Ion Ratio Lower Upper

105 100

120 47.2 37.6 56.4





#71

Naphthalene

Concen: 1.537 ug/L

RT: 14.092 min Scan# 3966

Delta R.T. 0.003 min

Lab File: VU047715.D

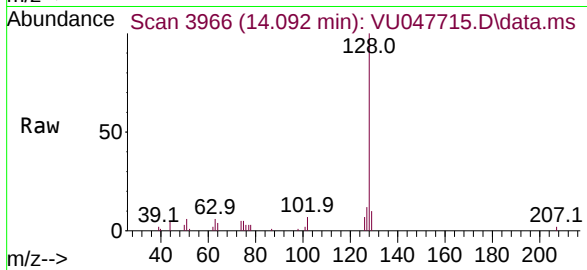
Acq: 26 Mar 2022 17:36

Instrument :

MSVOA\_U

ClientSampleId :

EW5Y2DL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 17553 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.8  | 10.2  | 15.2  |
| 129      | 10.3  | 8.8   | 13.2  |

