

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU103125\  
 Data File : VU063664.D  
 Acq On : 31 Oct 2025 16:59  
 Operator : MD/SY  
 Sample : Q2552-07  
 Misc : 25.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 WS0725-PT-RVOA-WS

Quant Time: Nov 03 01:00:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\524U103125DW.M  
 Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
 QLast Update : Mon Nov 03 00:51:51 2025  
 Response via : Initial Calibration

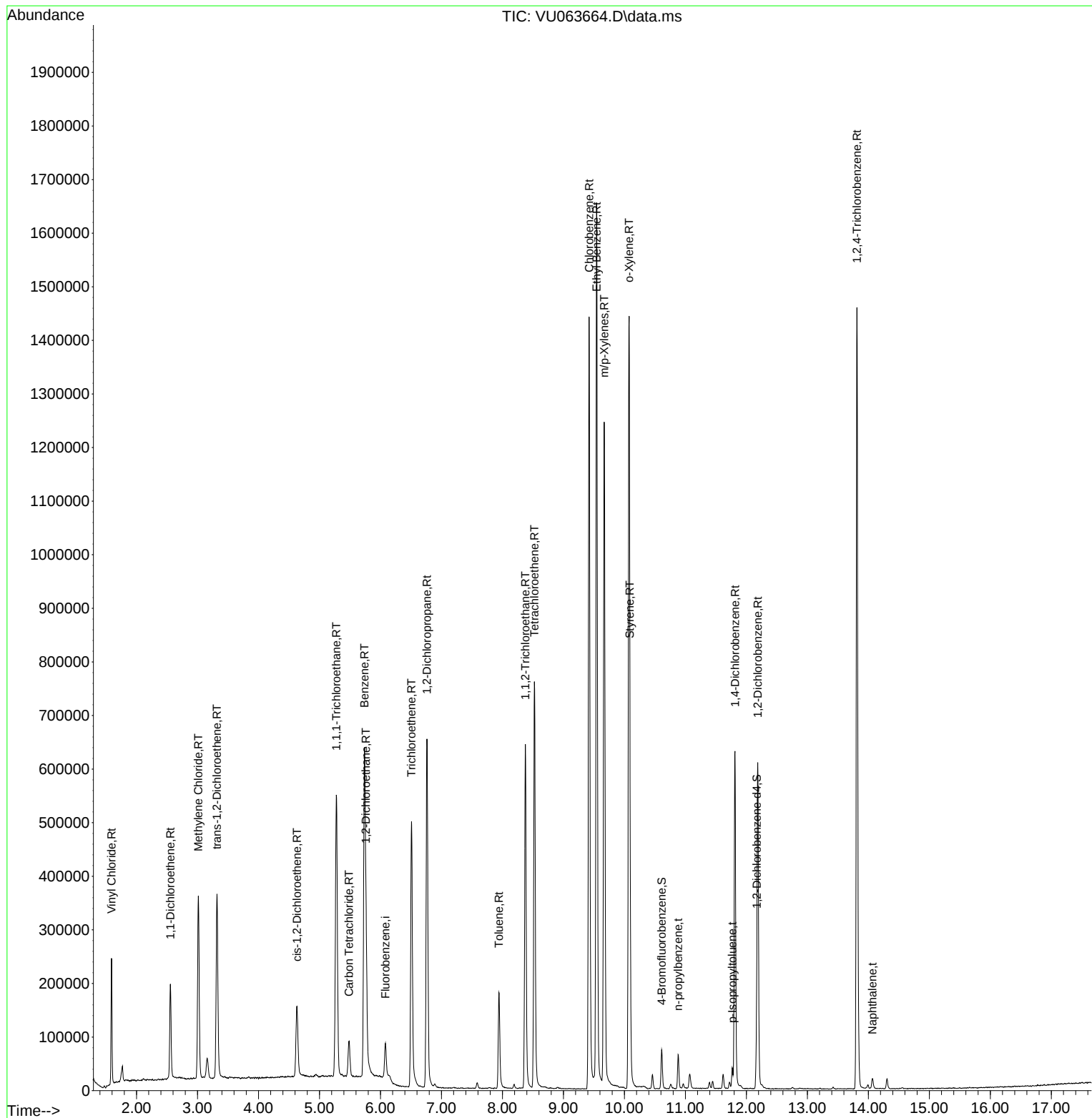
| Compound                     | R.T.   | QIon | Response | Conc   | Units   | Dev(Min) |
|------------------------------|--------|------|----------|--------|---------|----------|
| -----                        |        |      |          |        |         |          |
| Internal Standards           |        |      |          |        |         |          |
| 1) Fluorobenzene             | 6.081  | 96   | 58868    | 1.000  | ug/l    | # 0.00   |
| System Monitoring Compounds  |        |      |          |        |         |          |
| 57) 4-Bromofluorobenzene     | 10.611 | 95   | 24575    | 0.923  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 92.000% |          |
| 68) 1,2-Dichlorobenzene-d4   | 12.171 | 152  | 23234    | 0.973  | ug/l    | 0.00     |
| Spiked Amount 1.000          |        |      | Recovery | =      | 97.000% |          |
| Target Compounds             |        |      |          |        |         |          |
|                              |        |      |          |        |         | Qvalue   |
| 4) Vinyl Chloride            | 1.589  | 62   | 149143   | 7.039  | ug/l    | 98       |
| 9) 1,1-Dichloroethene        | 2.557  | 96   | 57868    | 3.646  | ug/l    | 100      |
| 15) Methylene Chloride       | 3.013  | 84   | 151608   | 7.431  | ug/l    | 100      |
| 16) trans-1,2-Dichloroethene | 3.319  | 96   | 140147   | 8.007  | ug/l    | 98       |
| 22) cis-1,2-Dichloroethene   | 4.631  | 96   | 66407    | 3.332  | ug/l    | 87       |
| 28) 1,1,1-Trichloroethane    | 5.277  | 97   | 382593   | 12.230 | ug/l    | 100      |
| 30) Carbon Tetrachloride     | 5.483  | 117  | 38024    | 1.536  | ug/l    | 98       |
| 35) Benzene                  | 5.737  | 78   | 593913   | 8.023  | ug/l    | 98       |
| 36) 1,2-Dichloroethane       | 5.762  | 62   | 198856   | 8.366  | ug/l    | 100      |
| 37) Trichloroethene          | 6.508  | 130  | 177044   | 8.392  | ug/l    | 95       |
| 38) 1,2-Dichloropropane      | 6.762  | 63   | 252009   | 12.165 | ug/l    | 97       |
| 49) Toluene                  | 7.942  | 92   | 81241    | 1.627  | ug/l    | 99       |
| 52) 1,1,2-Trichloroethane    | 8.377  | 97   | 200432   | 13.758 | ug/l    | 99       |
| 58) Tetrachloroethene        | 8.524  | 164  | 168512   | 8.165  | ug/l    | 99       |
| 59) Chlorobenzene            | 9.422  | 112  | 787855   | 14.553 | ug/l    | 99       |
| 63) Ethyl Benzene            | 9.544  | 91   | 1212368  | 12.363 | ug/l    | 99       |
| 64) m/p-Xylenes              | 9.669  | 106  | 361852   | 9.884  | ug/l    | 99       |
| 65) o-Xylene                 | 10.074 | 106  | 367332   | 10.240 | ug/l    | 98       |
| 66) Styrene                  | 10.090 | 104  | 129832   | 2.231  | ug/l #  | 62       |
| 73) n-propylbenzene          | 10.884 | 120  | 11065    | 0.440  | ug/l    | 98       |
| 81) p-Isopropyltoluene       | 11.769 | 119  | 21786    | 0.252  | ug/l    | 99       |
| 83) 1,4-Dichlorobenzene      | 11.814 | 146  | 253784   | 6.155  | ug/l    | 99       |
| 85) 1,2-Dichlorobenzene      | 12.187 | 146  | 219760   | 5.600  | ug/l    | 99       |
| 87) 1,2,4-Trichlorobenzene   | 13.814 | 180  | 435872   | 18.027 | ug/l    | 99       |
| 89) Naphthalene              | 14.068 | 128  | 16819    | 0.362  | ug/l    | 99       |
| -----                        |        |      |          |        |         |          |

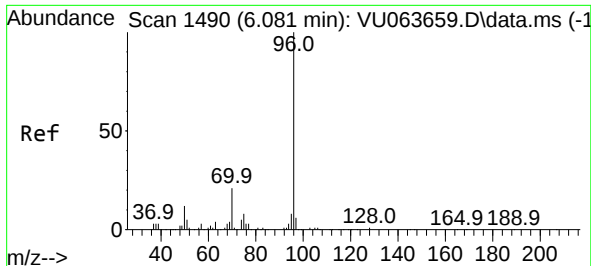
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 524.2 VOLATILES DRINKING WATER  
QLast Update : Mon Nov 03 00:51:51 2025  
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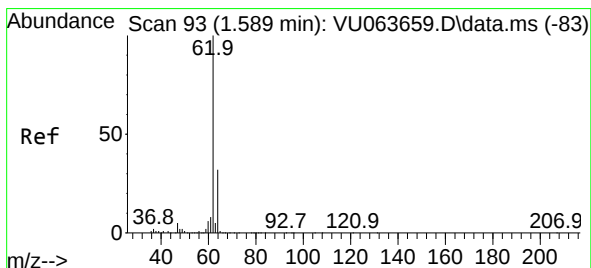
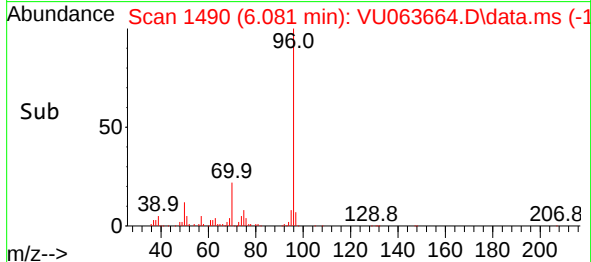
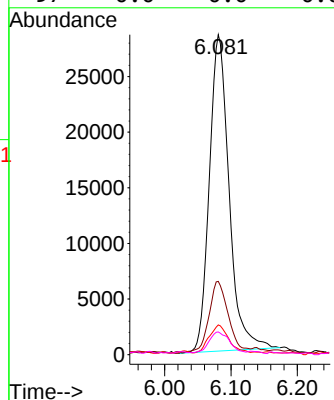
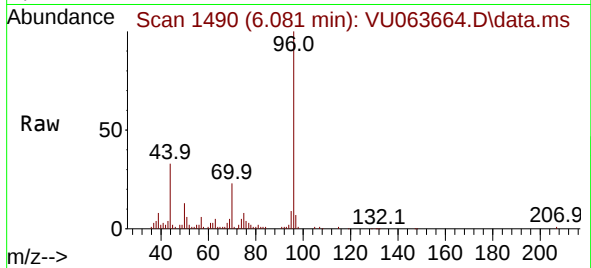




#1  
Fluorobenzene  
Concen: 1.000 ug/l  
RT: 6.081 min Scan# 1490  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

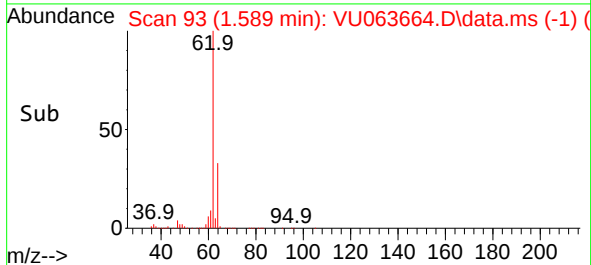
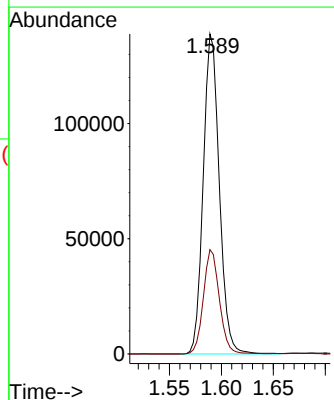
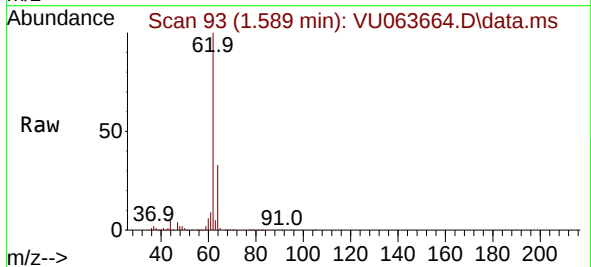
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

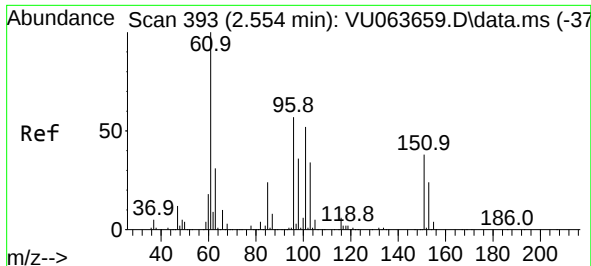
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 58868 |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 70       | 20.4  | 15.3  | 22.9  |
| 95       | 8.5   | 6.5   | 9.7   |
| 97       | 0.0   | 0.0   | 0.0   |



#4  
Vinyl Chloride  
Concen: 7.039 ug/l  
RT: 1.589 min Scan# 93  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 62    | Resp: | 149143 |
| Ion      | Ratio | Lower | Upper  |
| 62       | 100   |       |        |
| 64       | 32.6  | 25.2  | 37.8   |

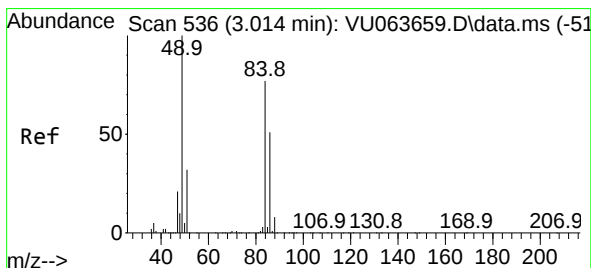
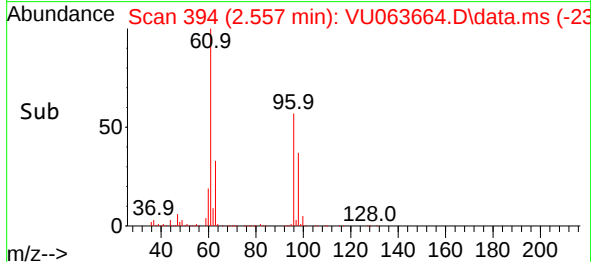
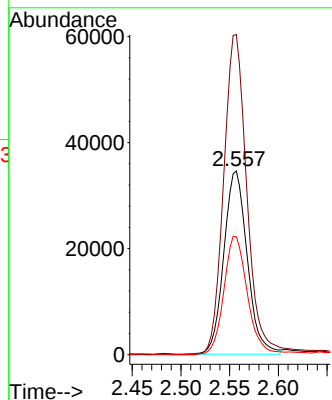
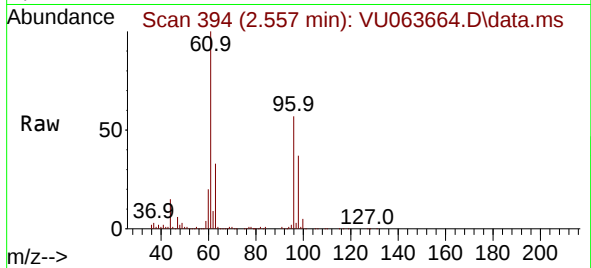




#9  
1,1-Dichloroethene  
Concen: 3.646 ug/l  
RT: 2.557 min Scan# 393  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

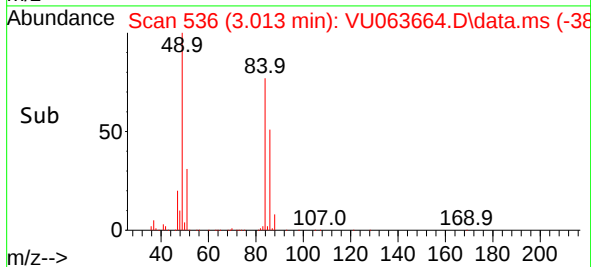
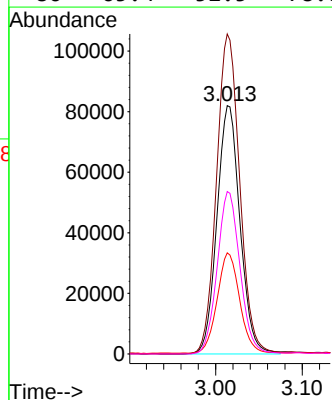
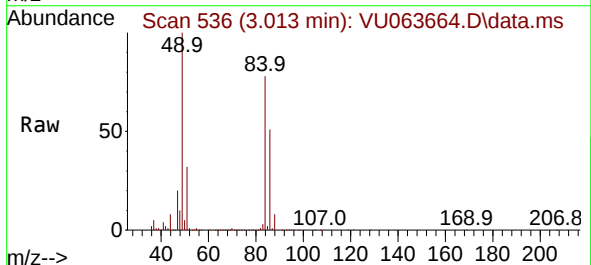
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

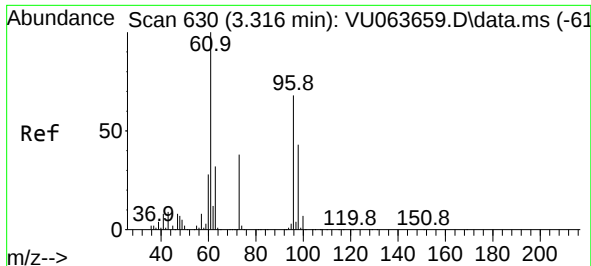
Tgt Ion: 96 Resp: 57868  
Ion Ratio Lower Upper  
96 100  
61 174.8 0.0 524.7  
98 64.4 0.0 126.8



#15  
Methylene Chloride  
Concen: 7.431 ug/l  
RT: 3.013 min Scan# 536  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion: 84 Resp: 151608  
Ion Ratio Lower Upper  
84 100  
49 128.9 103.4 155.0  
51 40.4 0.0 81.6  
86 65.4 52.5 78.7

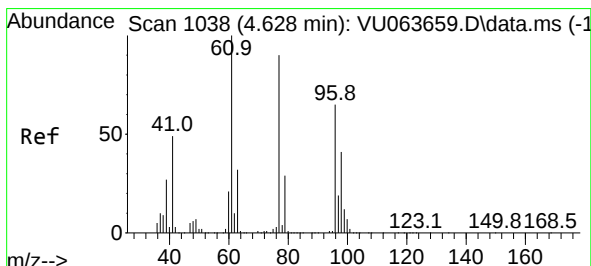
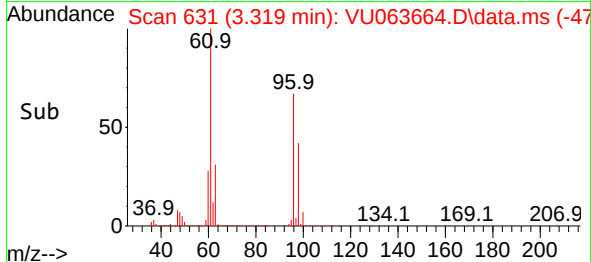
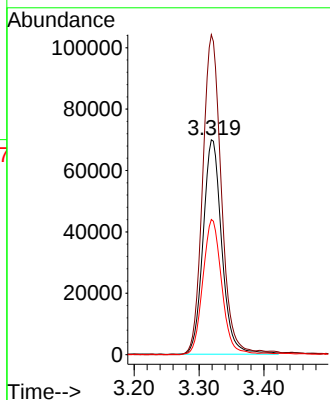
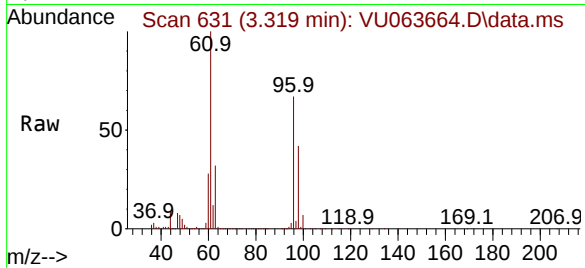




#16  
trans-1,2-Dichloroethene  
Concen: 8.007 ug/l  
RT: 3.319 min Scan# 61  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

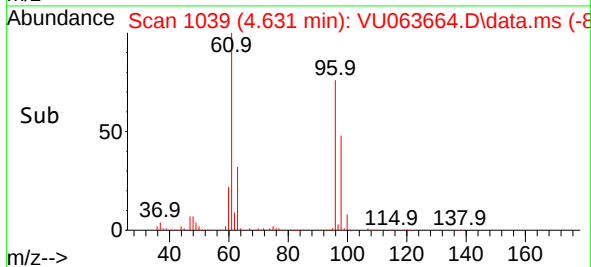
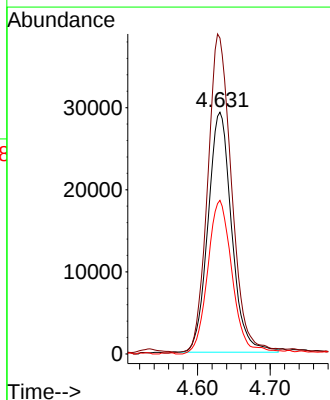
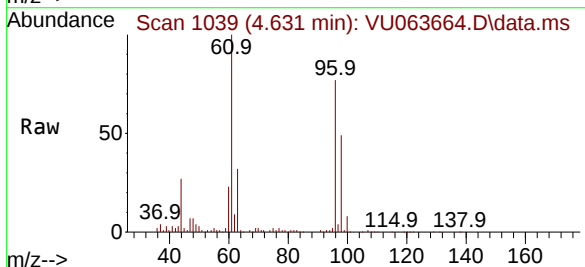
Instrument :  
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ClientSampleId :  
WS0725-PT-RVOA-WS

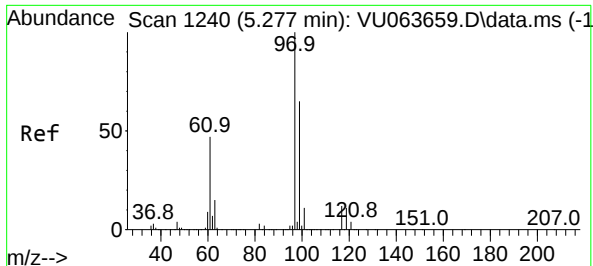
Tgt Ion: 96 Resp: 140147  
Ion Ratio Lower Upper  
96 100  
61 149.2 117.4 176.2  
98 62.9 49.9 74.9



#22  
cis-1,2-Dichloroethene  
Concen: 3.332 ug/l  
RT: 4.631 min Scan# 1039  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion: 96 Resp: 66407  
Ion Ratio Lower Upper  
96 100  
61 133.6 0.0 385.0  
98 66.9 31.3 93.9





#28

1,1,1-Trichloroethane

Concen: 12.230 ug/l

RT: 5.277 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Instrument :

MSVOA\_U

ClientSampleId :

WS0725-PT-RVOA-WS

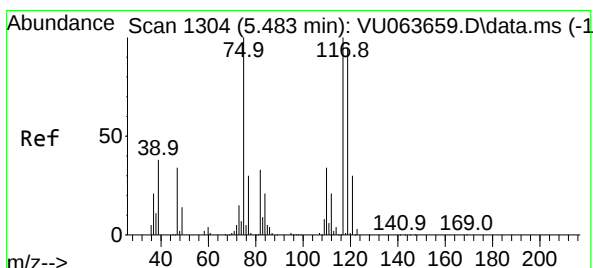
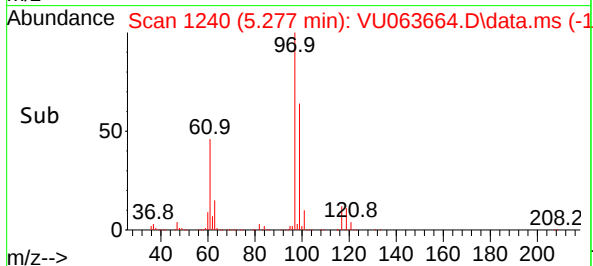
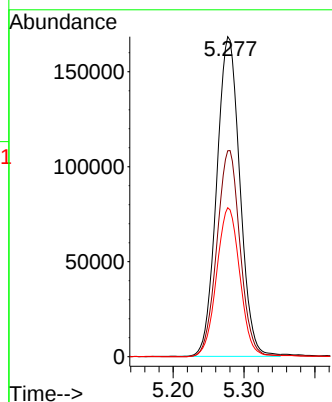
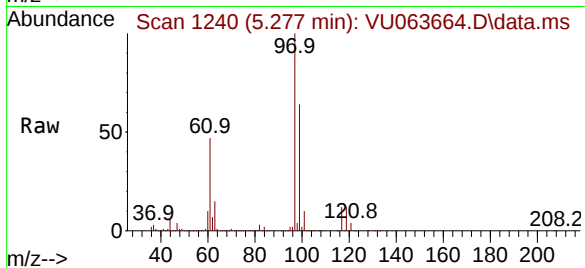
Tgt Ion: 97 Resp: 382593

Ion Ratio Lower Upper

97 100

99 64.5 32.3 96.8

61 46.9 23.3 69.8



#30

Carbon Tetrachloride

Concen: 1.536 ug/l

RT: 5.483 min Scan# 1304

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

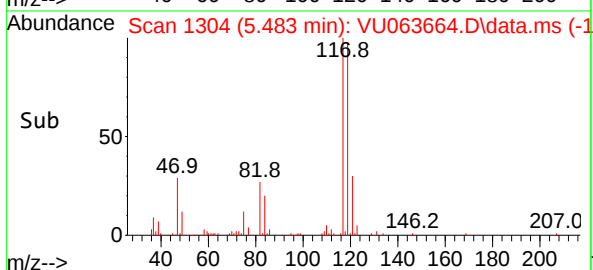
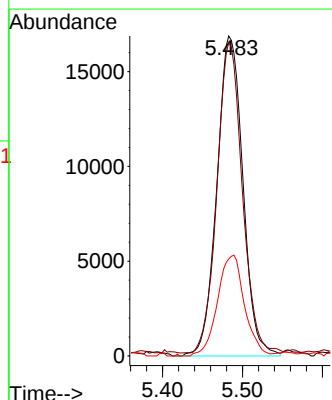
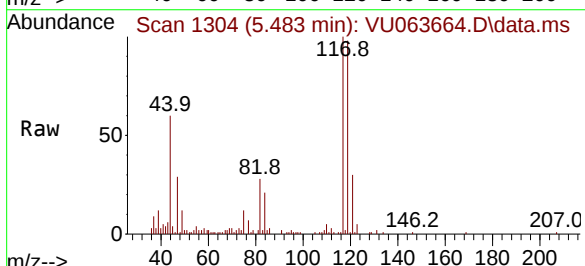
Tgt Ion: 117 Resp: 38024

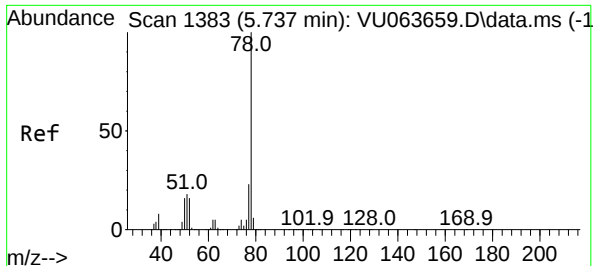
Ion Ratio Lower Upper

117 100

119 97.0 75.7 113.5

121 30.3 23.8 35.6

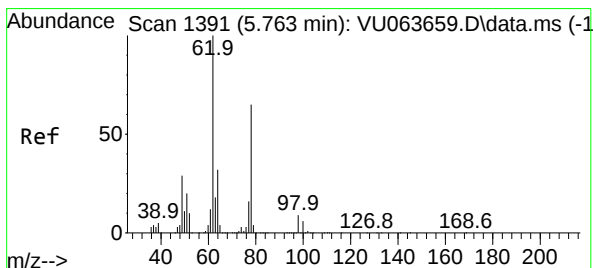
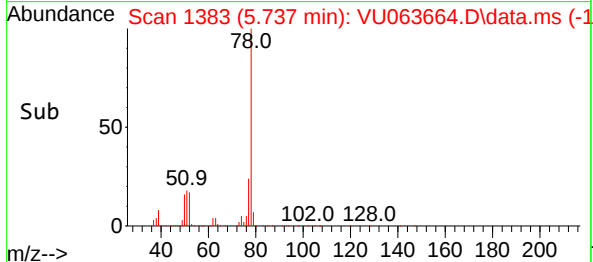
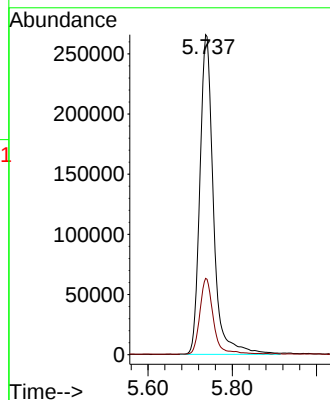
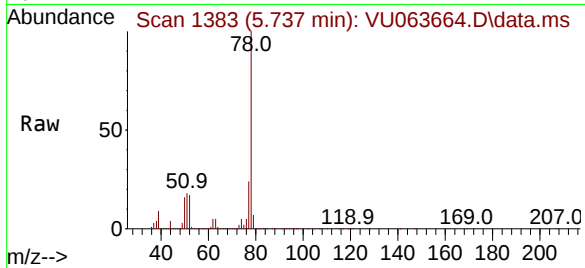




#35  
Benzene  
Concen: 8.023 ug/l  
RT: 5.737 min Scan# 1383  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

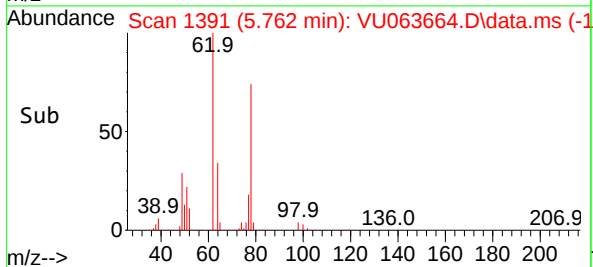
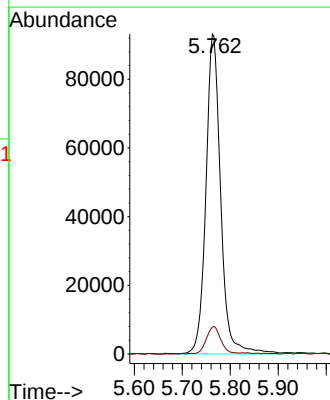
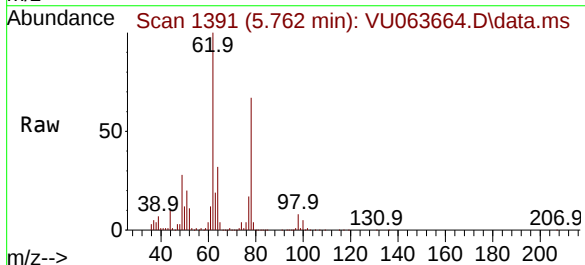
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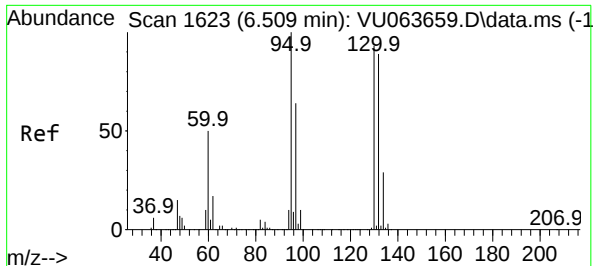
Tgt Ion: 78 Resp: 593913  
Ion Ratio Lower Upper  
78 100  
77 23.6 18.3 27.5



#36  
1,2-Dichloroethane  
Concen: 8.366 ug/l  
RT: 5.762 min Scan# 1391  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion: 62 Resp: 198856  
Ion Ratio Lower Upper  
62 100  
98 8.5 6.8 10.2





#37

Trichloroethene

Concen: 8.392 ug/l

RT: 6.508 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Instrument :

MSVOA\_U

ClientSampleId :

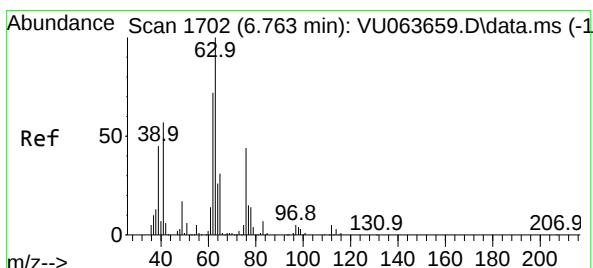
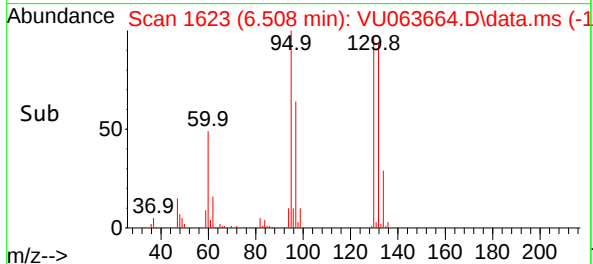
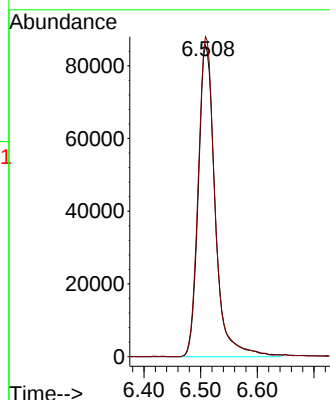
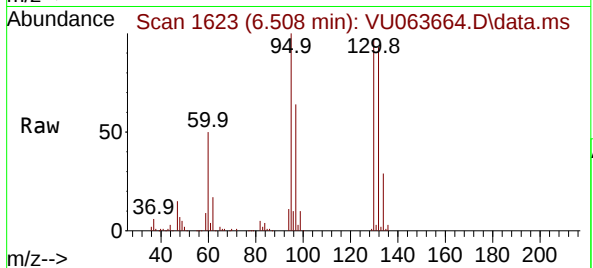
WS0725-PT-RVOA-WS

Tgt Ion:130 Resp: 177044

Ion Ratio Lower Upper

130 100

95 102.8 86.0 129.0



#38

1,2-Dichloropropane

Concen: 12.165 ug/l

RT: 6.762 min Scan# 1702

Delta R.T. -0.000 min

Lab File: VU063664.D

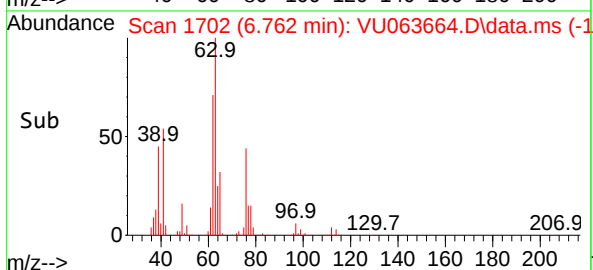
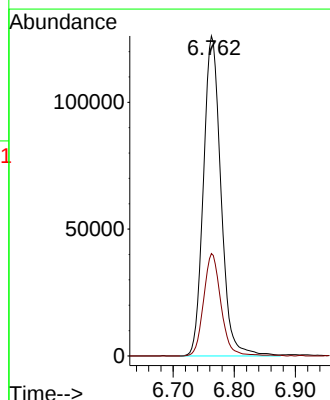
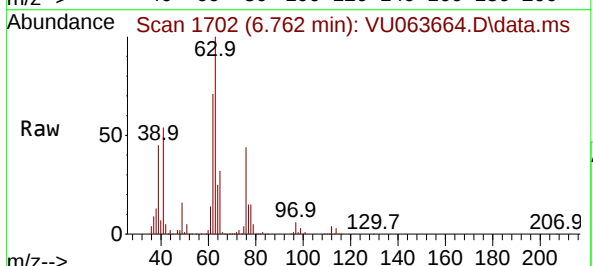
Acq: 31 Oct 2025 16:59

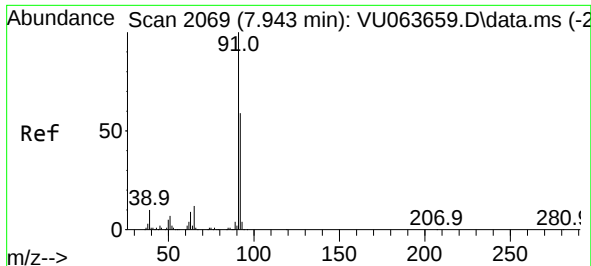
Tgt Ion: 63 Resp: 252009

Ion Ratio Lower Upper

63 100

65 32.0 24.5 36.7





#49

Toluene

Concen: 1.627 ug/l

RT: 7.942 min Scan# 2069

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Instrument :

MSVOA\_U

ClientSampleId :

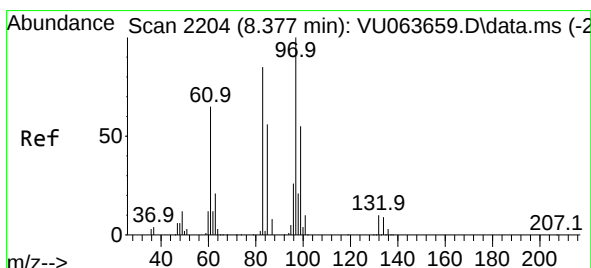
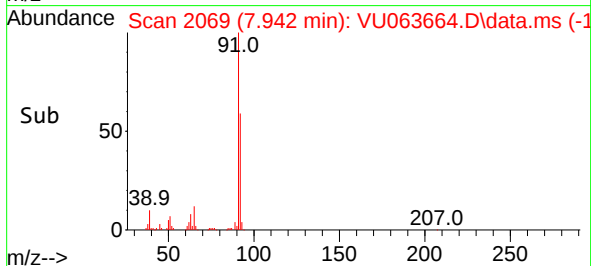
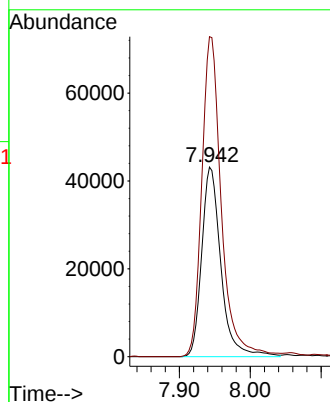
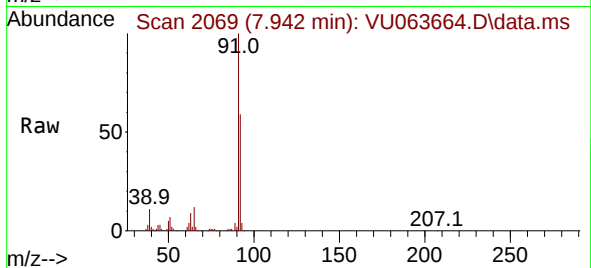
WS0725-PT-RVOA-WS

Tgt Ion: 92 Resp: 81241

Ion Ratio Lower Upper

92 100

91 171.8 136.8 205.2



#52

1,1,2-Trichloroethane

Concen: 13.758 ug/l

RT: 8.377 min Scan# 2204

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Tgt Ion: 97 Resp: 200432

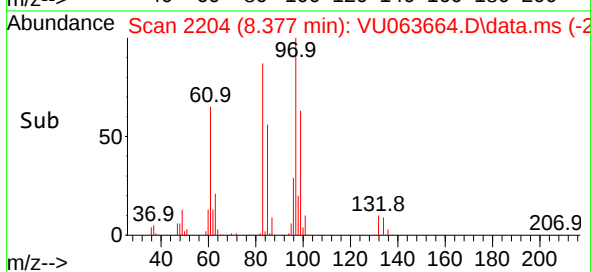
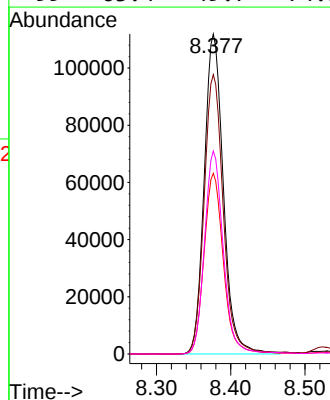
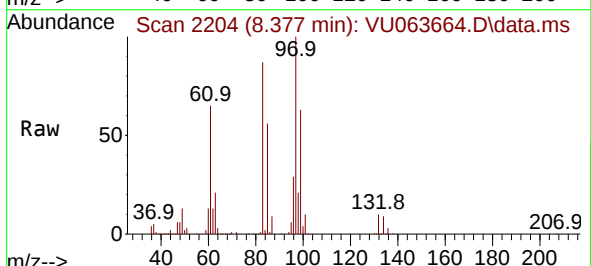
Ion Ratio Lower Upper

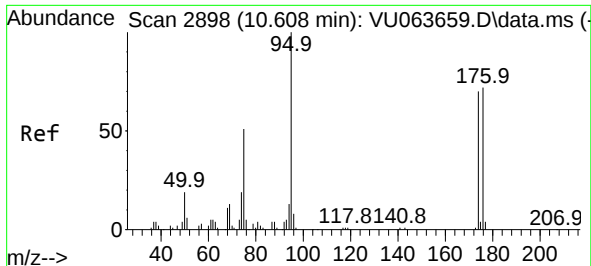
97 100

83 87.3 68.3 102.5

85 56.4 45.3 67.9

99 63.4 49.7 74.5

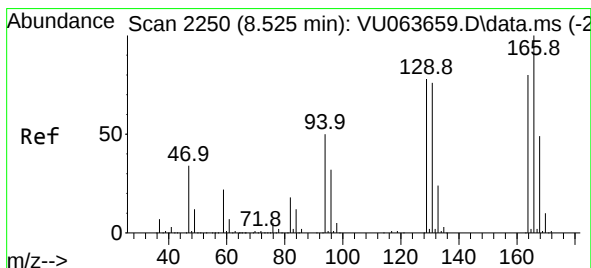
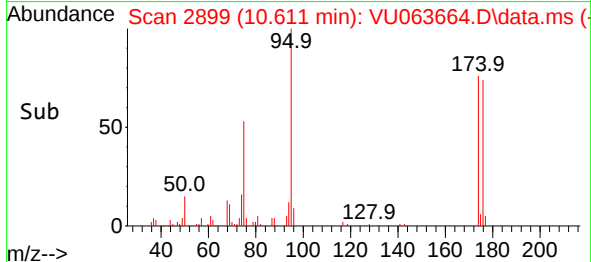
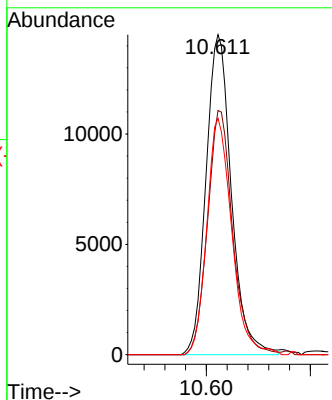
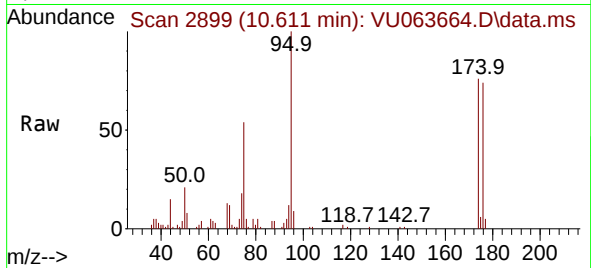




#57  
4-Bromofluorobenzene  
Concen: 0.923 ug/l  
RT: 10.611 min Scan# 2899  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

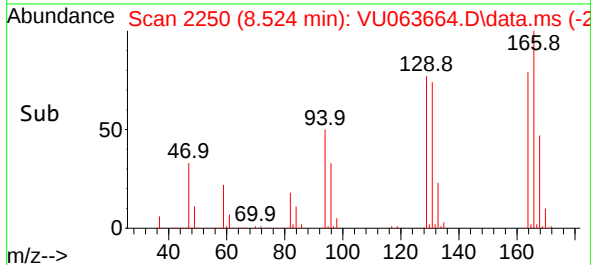
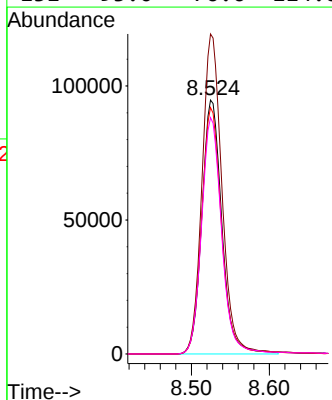
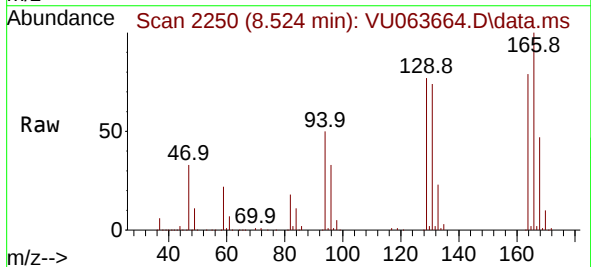
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

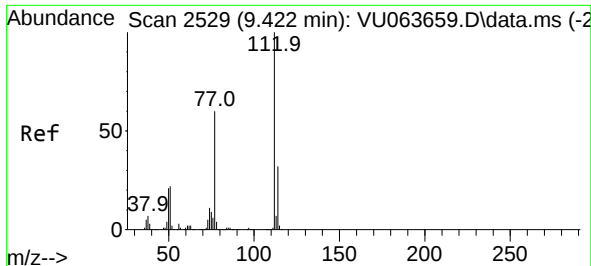
Tgt Ion: 95 Resp: 24575  
Ion Ratio Lower Upper  
95 100  
174 75.6 59.9 89.9  
176 72.7 58.8 88.2



#58  
Tetrachloroethene  
Concen: 8.165 ug/l  
RT: 8.524 min Scan# 2250  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion: 164 Resp: 168512  
Ion Ratio Lower Upper  
164 100  
166 126.0 100.1 150.1  
129 97.0 77.6 116.4  
131 93.0 76.6 114.8





#59

Chlorobenzene

Concen: 14.553 ug/l

RT: 9.422 min Scan# 2529

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Instrument :

MSVOA\_U

ClientSampleId :

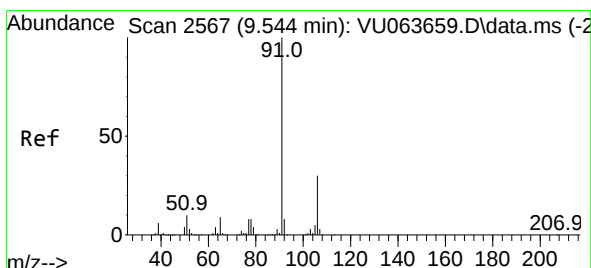
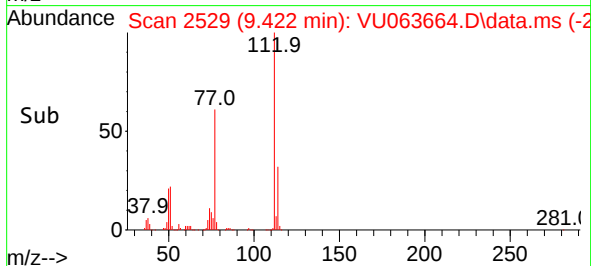
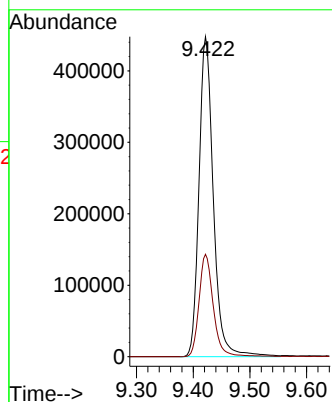
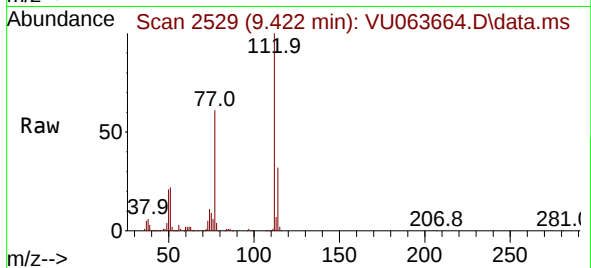
WS0725-PT-RVOA-WS

Tgt Ion:112 Resp: 787855

Ion Ratio Lower Upper

112 100

114 32.0 26.0 39.0



#63

Ethyl Benzene

Concen: 12.363 ug/l

RT: 9.544 min Scan# 2567

Delta R.T. -0.000 min

Lab File: VU063664.D

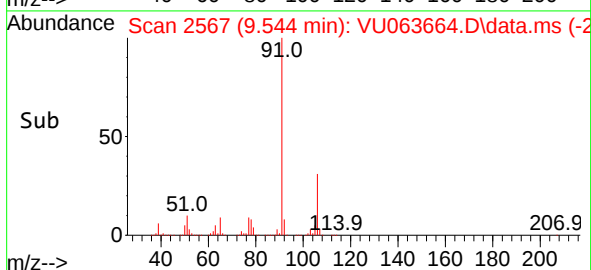
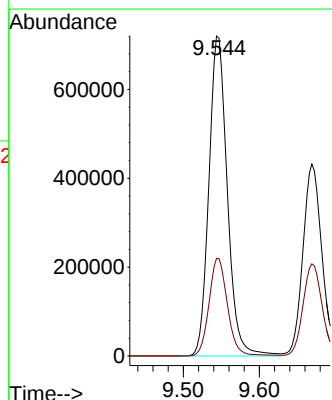
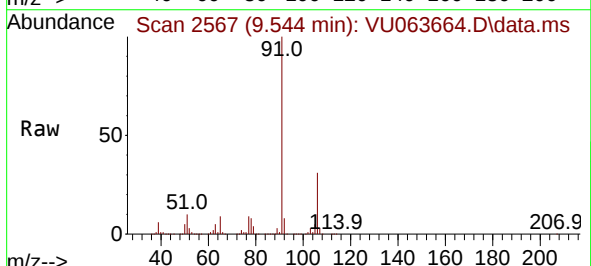
Acq: 31 Oct 2025 16:59

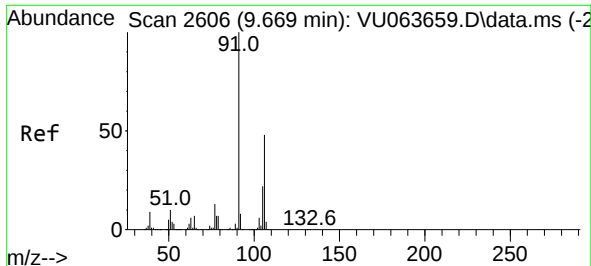
Tgt Ion: 91 Resp: 1212368

Ion Ratio Lower Upper

91 100

106 30.5 24.1 36.1

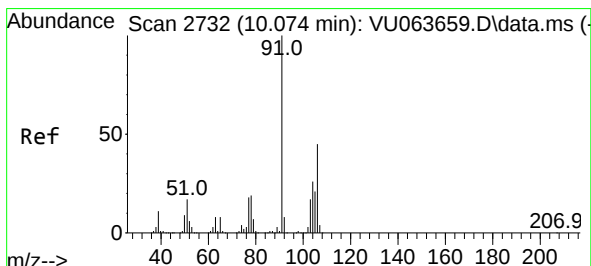
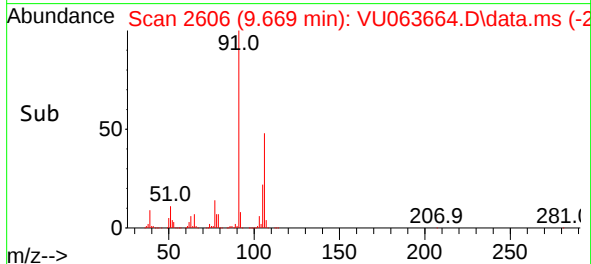
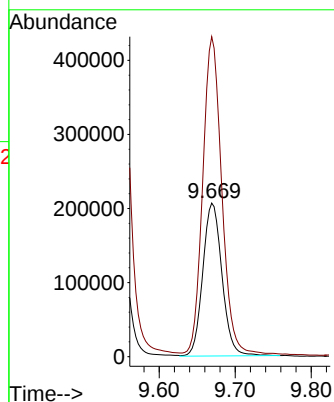
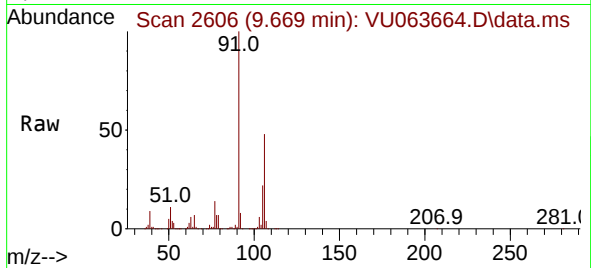




#64  
m/p-Xylenes  
Concen: 9.884 ug/l  
RT: 9.669 min Scan# 2606  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

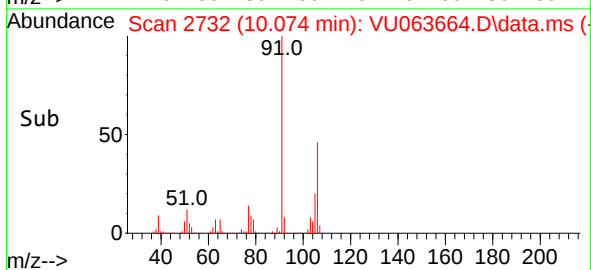
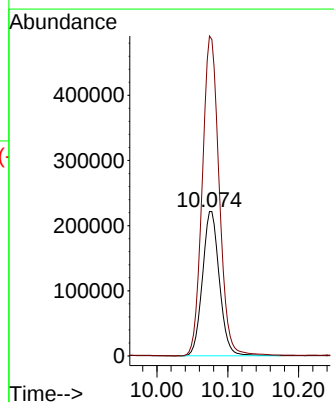
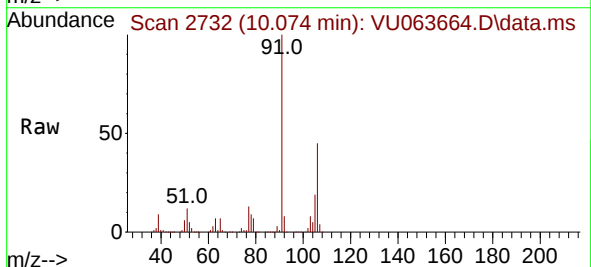
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

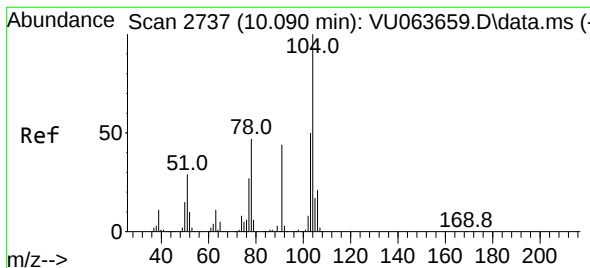
Tgt Ion:106 Resp: 361852  
Ion Ratio Lower Upper  
106 100  
91 210.5 167.0 250.4



#65  
o-Xylene  
Concen: 10.240 ug/l  
RT: 10.074 min Scan# 2732  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion:106 Resp: 367332  
Ion Ratio Lower Upper  
106 100  
91 222.0 109.3 327.9





#66

Styrene

Concen: 2.231 ug/l

RT: 10.090 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

Instrument :

MSVOA\_U

ClientSampleId :

WS0725-PT-RVOA-WS

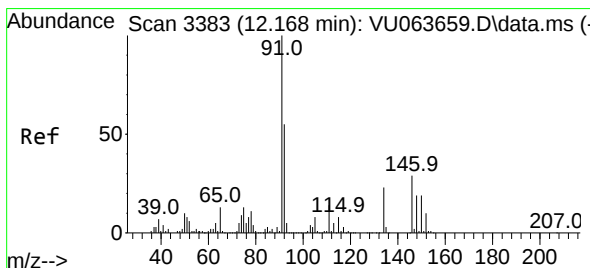
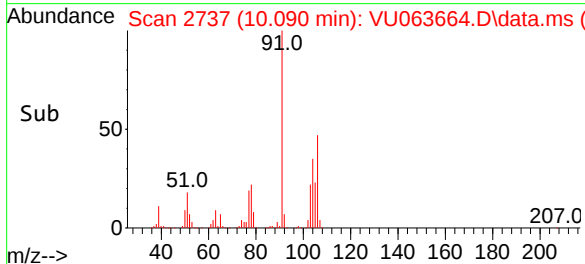
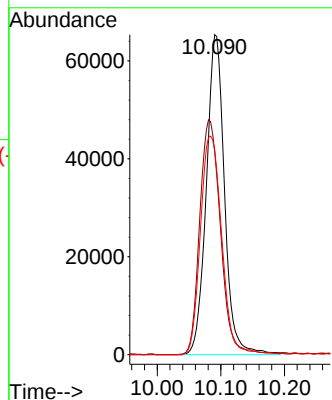
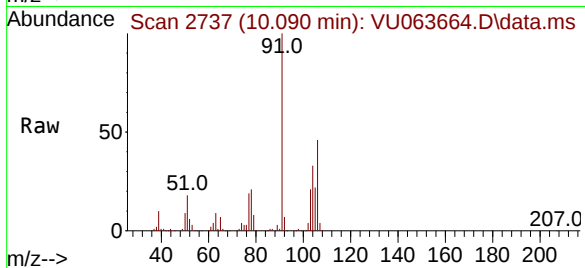
Tgt Ion:104 Resp: 129832

Ion Ratio Lower Upper

104 100

78 83.7 42.8 64.2#

103 79.9 43.9 65.9#



#68

1,2-Dichlorobenzene-d4

Concen: 0.973 ug/l

RT: 12.171 min Scan# 3384

Delta R.T. 0.003 min

Lab File: VU063664.D

Acq: 31 Oct 2025 16:59

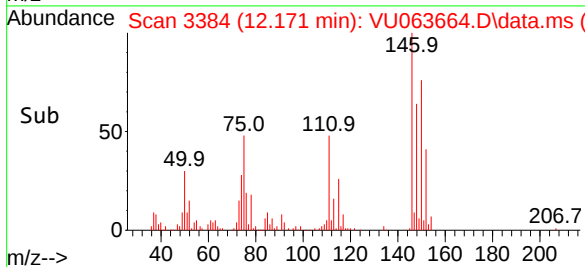
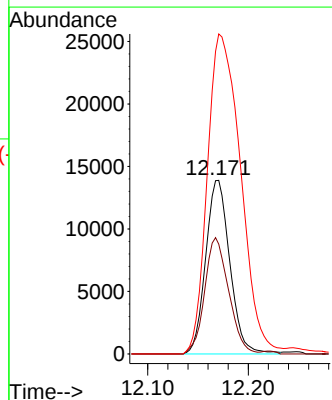
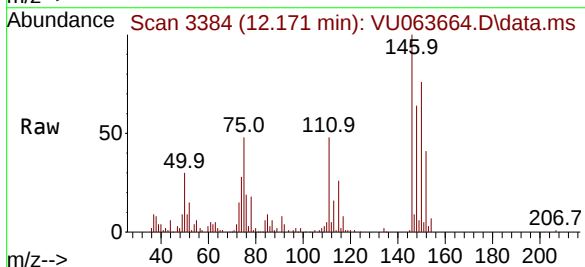
Tgt Ion:152 Resp: 23234

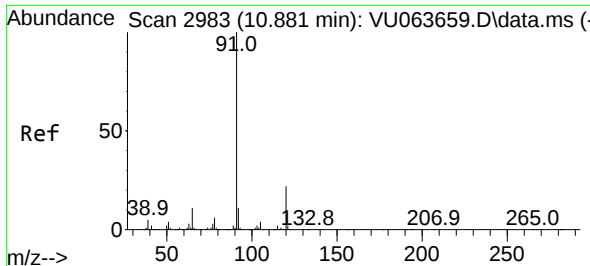
Ion Ratio Lower Upper

152 100

115 66.4 0.0 247.2

150 252.9 0.0 643.6

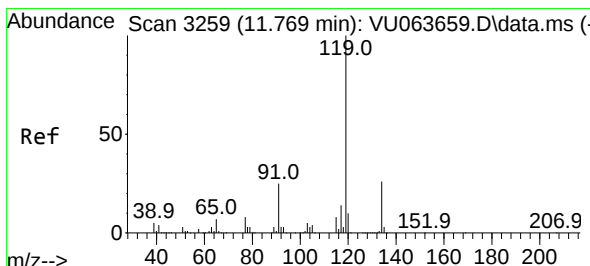
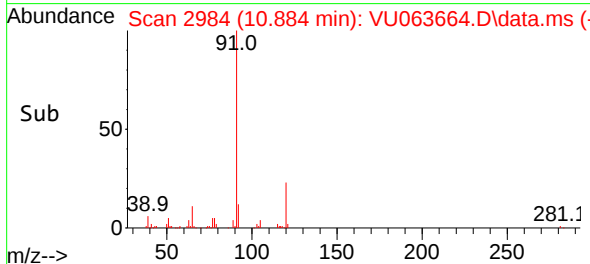
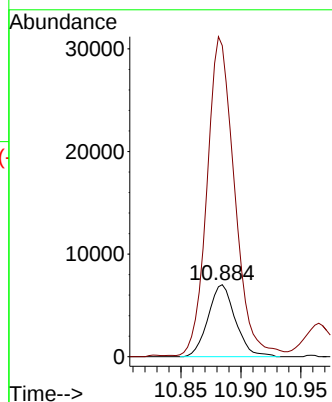
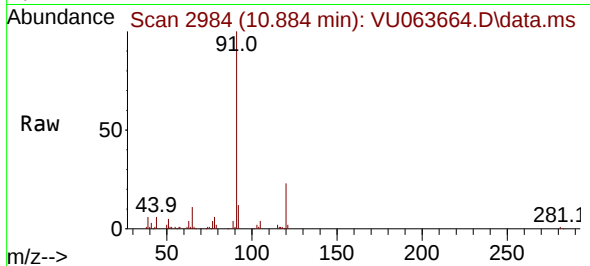




#73  
n-propylbenzene  
Concen: 0.440 ug/l  
RT: 10.884 min Scan# 2984  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

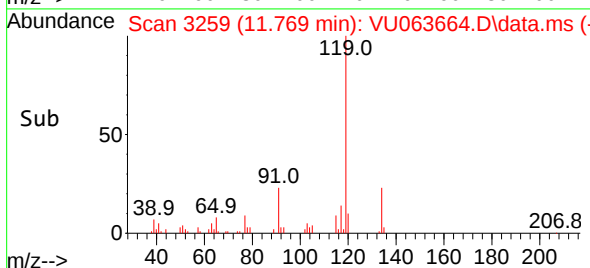
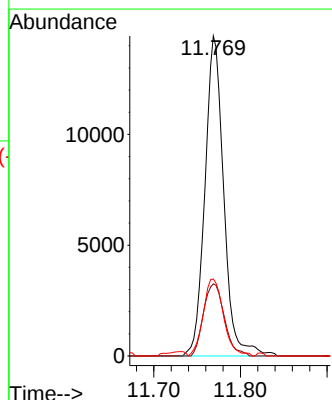
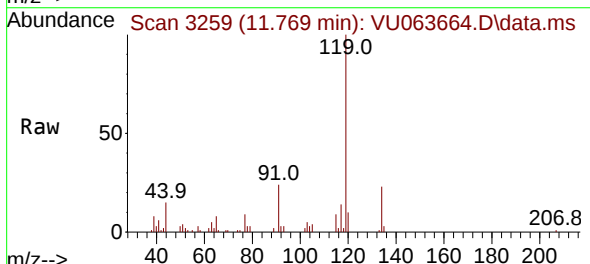
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

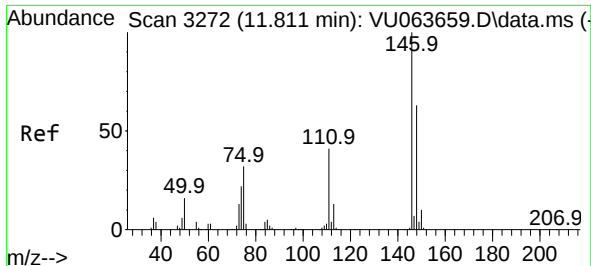
Tgt Ion:120 Resp: 11065  
Ion Ratio Lower Upper  
120 100  
91 446.2 361.4 542.2



#81  
p-Isopropyltoluene  
Concen: 0.252 ug/l  
RT: 11.769 min Scan# 3259  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion:119 Resp: 21786  
Ion Ratio Lower Upper  
119 100  
134 25.0 20.3 30.5  
91 25.8 20.1 30.1

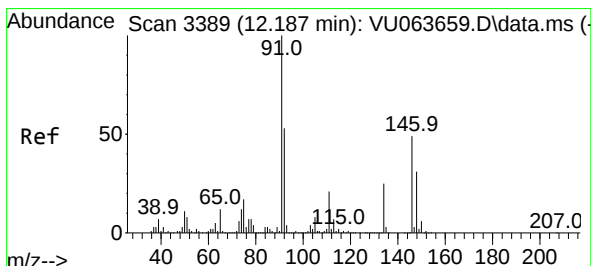
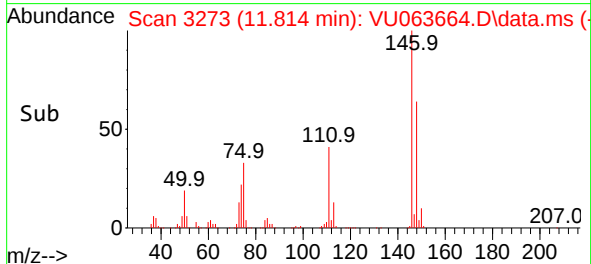
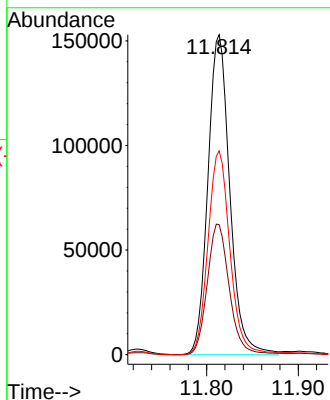
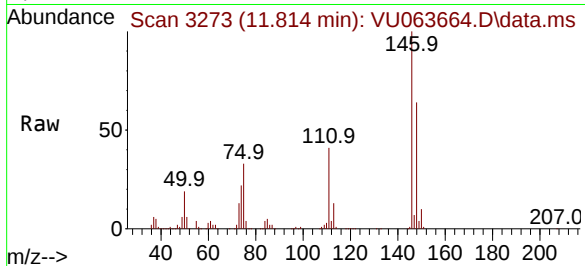




#83  
1,4-Dichlorobenzene  
Concen: 6.155 ug/l  
RT: 11.814 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

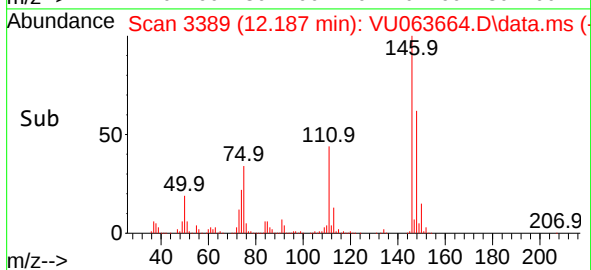
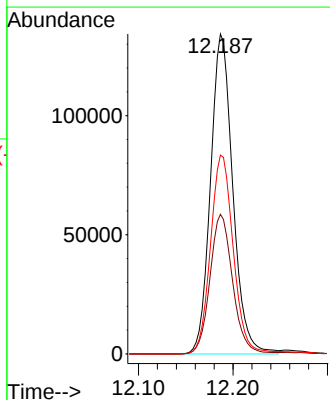
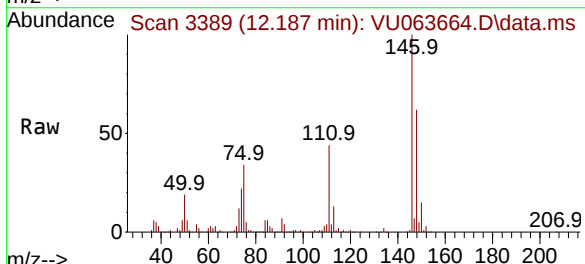
Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

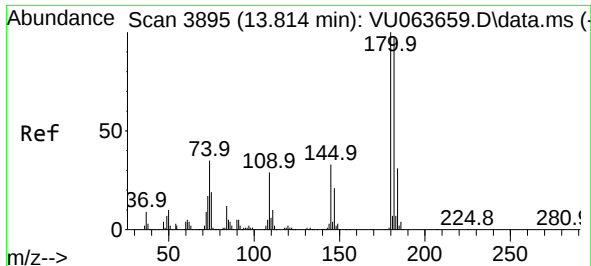
Tgt Ion:146 Resp: 253784  
Ion Ratio Lower Upper  
146 100  
111 41.1 33.0 49.4  
148 64.1 50.6 76.0



#85  
1,2-Dichlorobenzene  
Concen: 5.600 ug/l  
RT: 12.187 min Scan# 3389  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion:146 Resp: 219760  
Ion Ratio Lower Upper  
146 100  
111 44.4 22.2 66.6  
148 64.6 31.9 95.5

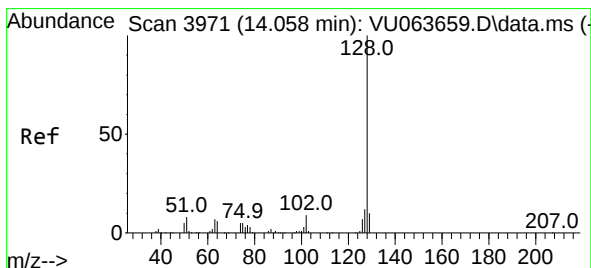
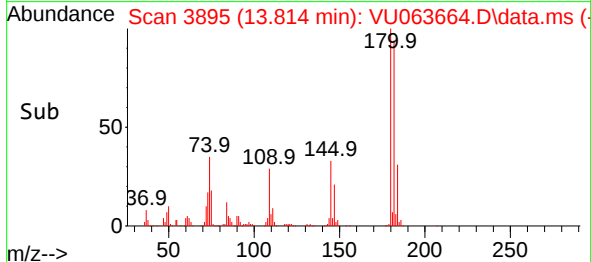
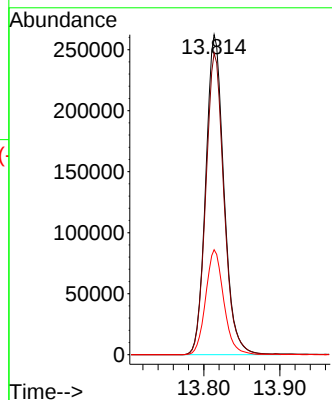
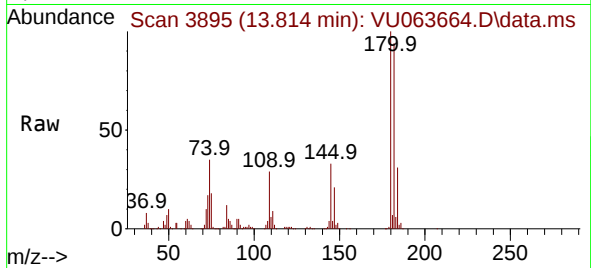




#87  
1,2,4-Trichlorobenzene  
Concen: 18.027 ug/l  
RT: 13.814 min Scan# 3895  
Delta R.T. -0.000 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Instrument :  
MSVOA\_U  
ClientSampleId :  
WS0725-PT-RVOA-WS

Tgt Ion:180 Resp: 435872  
Ion Ratio Lower Upper  
180 100  
182 94.2 76.4 114.6  
145 32.6 26.2 39.2



#89  
Naphthalene  
Concen: 0.362 ug/l  
RT: 14.068 min Scan# 3974  
Delta R.T. 0.009 min  
Lab File: VU063664.D  
Acq: 31 Oct 2025 16:59

Tgt Ion:128 Resp: 16819  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.2  
129 11.1 8.6 12.8

