

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW121125\  
 Data File : VW032628.D  
 Acq On : 11 Dec 2025 13:32  
 Operator : SY/MD  
 Sample : Q3814-13  
 Misc : 4.19g/5mL/MSVOA\_W/SOIL  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-10

Quant Time: Dec 12 00:43:29 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W121025S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 11 01:56:28 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.965  | 168  | 470632   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.849  | 114  | 923504   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.629 | 117  | 773483   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.556 | 152  | 329610   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.319  | 65    | 423926   | 56.789   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 63 - 155 | Recovery | =    | 113.580% |
| 35) Dibromofluoromethane    | 7.898  | 113   | 335862   | 50.960   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 70 - 134 | Recovery | =    | 101.920% |
| 50) Toluene-d8              | 10.325 | 98    | 1236203  | 52.159   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 123 | Recovery | =    | 104.320% |
| 62) 4-Bromofluorobenzene    | 12.617 | 95    | 436231   | 50.133   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 17 - 146 | Recovery | =    | 100.260% |

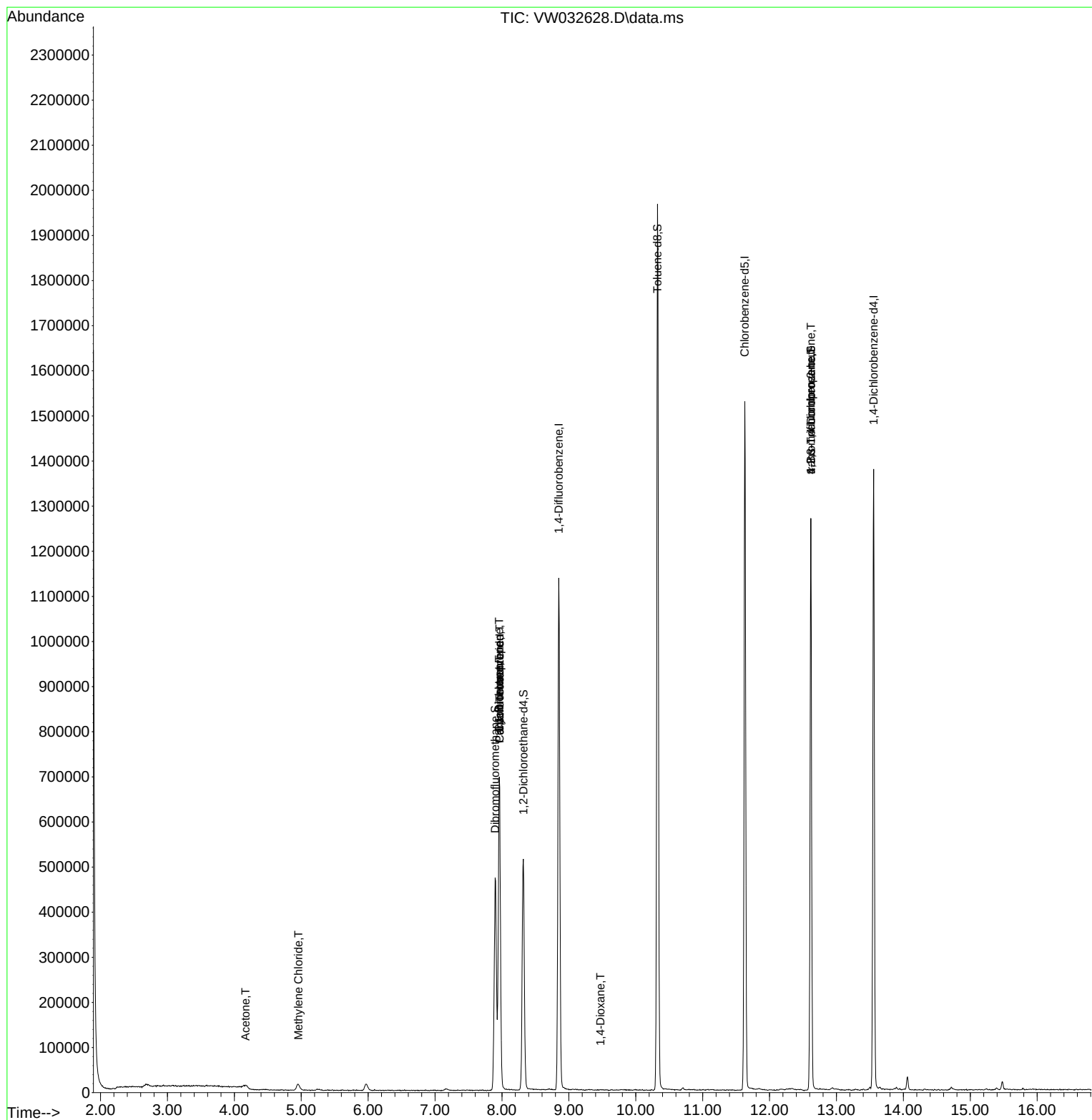
| Target Compounds              |        |     |        |           | Qvalue |    |
|-------------------------------|--------|-----|--------|-----------|--------|----|
| 16) Acetone                   | 4.167  | 43  | 6328   | 2.567     | ug/l # | 89 |
| 20) Methylene Chloride        | 4.960  | 84  | 11247  | 1.494     | ug/l   | 91 |
| 31) Cyclohexane               | 7.959  | 56  | 13259  | 1.170     | ug/l # | 1  |
| 36) 1,1-Dichloropropene       | 7.959  | 75  | 45155  | 4.749     | ug/l # | 51 |
| 38) Carbon Tetrachloride      | 7.965  | 117 | 52832  | 6.007     | ug/l # | 17 |
| 49) 1,4-Dioxane               | 9.471  | 88  | 157    | 2.737     | ug/l # | 75 |
| 58) 2-Chloroethyl Vinyl ether | 9.959  | 63  | 197    | Below Cal |        | 98 |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75  | 222013 | 50.195    | ug/l # | 1  |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75  | 222013 | 100.242   | ug/l # | 7  |
| 95) Naphthalene               | 15.361 | 128 | 795    | Below Cal | #      | 91 |

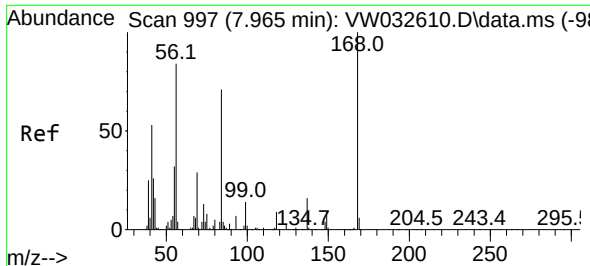
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

Quant Time: Dec 12 00:43:29 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W121025S.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 11 01:56:28 2025  
Response via : Initial Calibration

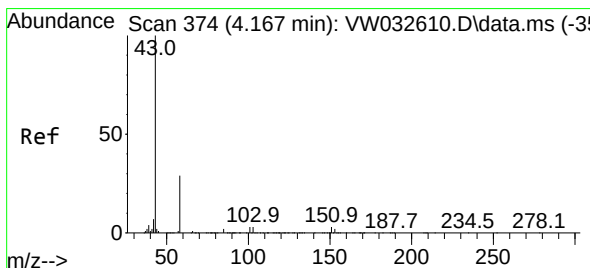
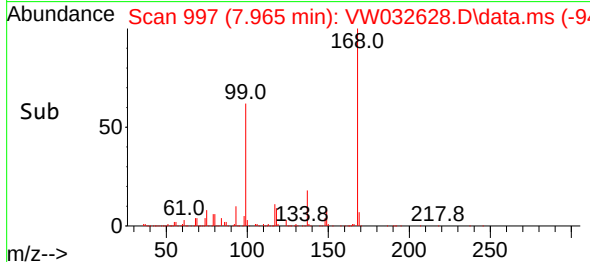
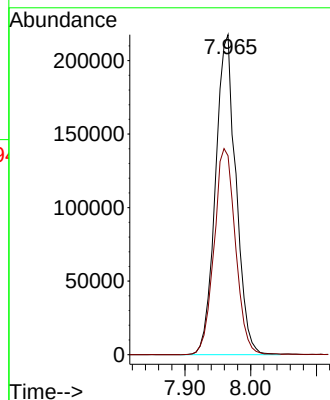
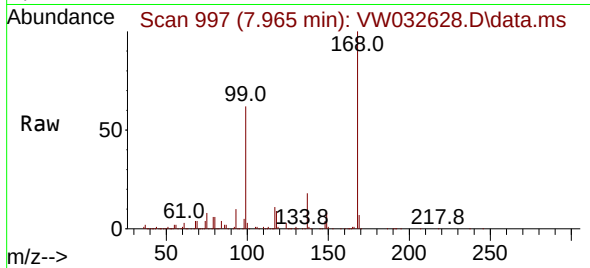




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 997  
Delta R.T. 0.000 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

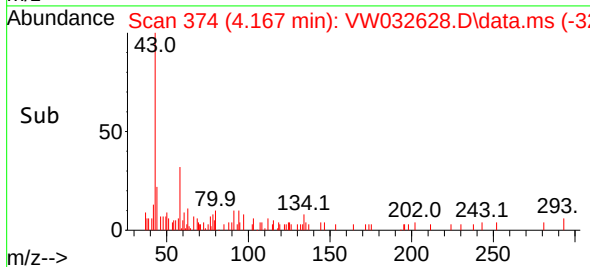
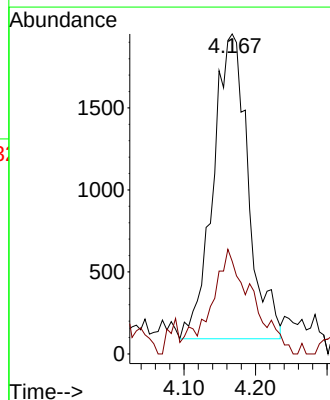
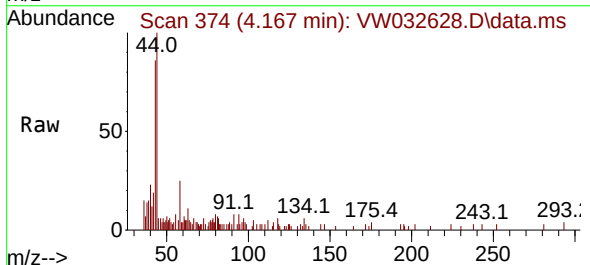
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

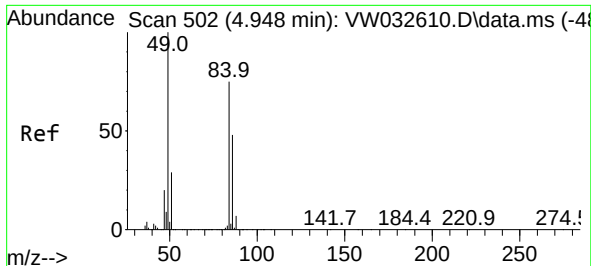
Tgt Ion:168 Resp: 470632  
Ion Ratio Lower Upper  
168 100  
99 62.1 47.8 71.8



#16  
Acetone  
Concen: 2.567 ug/l  
RT: 4.167 min Scan# 374  
Delta R.T. 0.000 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Tgt Ion: 43 Resp: 6328  
Ion Ratio Lower Upper  
43 100  
58 23.9 23.9 35.9#



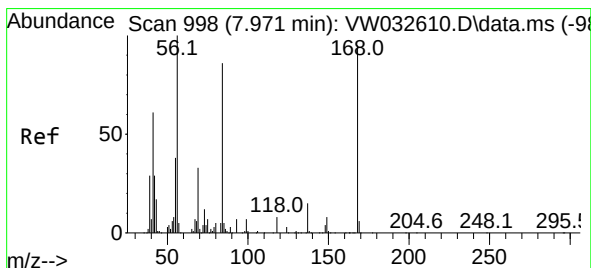
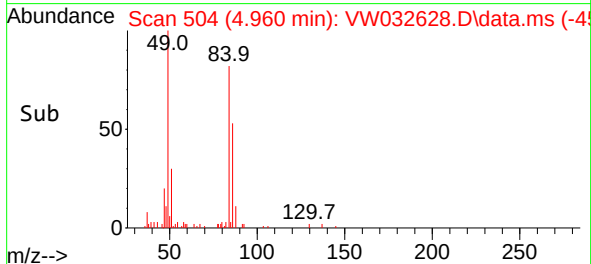
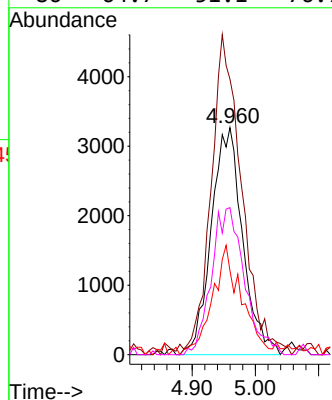
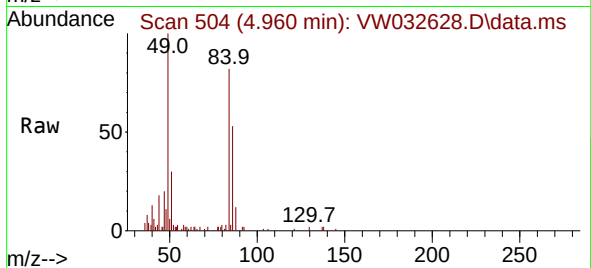


#20  
Methylene Chloride  
Concen: 1.494 ug/l  
RT: 4.960 min Scan# 502  
Delta R.T. 0.012 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

Tgt Ion: 84 Resp: 11247

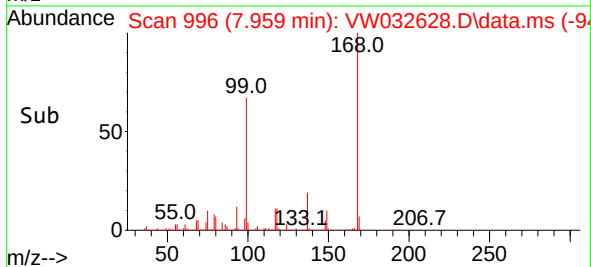
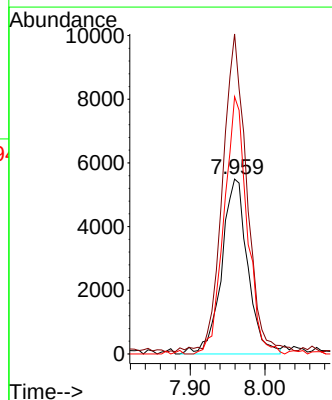
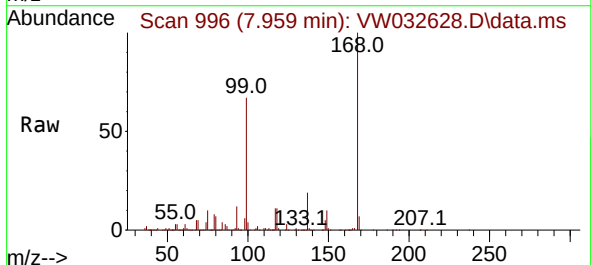
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 116.7 | 106.9 | 160.3 |
| 51  | 37.0  | 31.4  | 47.2  |
| 86  | 64.7  | 51.1  | 76.7  |

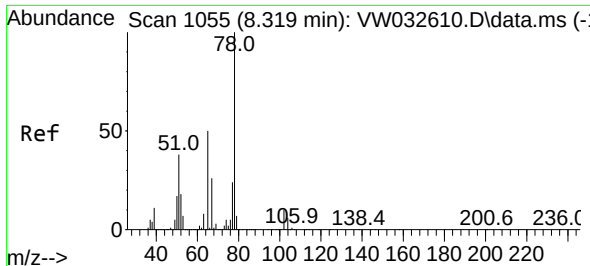


#31  
Cyclohexane  
Concen: 1.170 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Tgt Ion: 56 Resp: 13259

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 179.5 | 26.2  | 39.2#  |
| 84  | 145.9 | 68.9  | 103.3# |

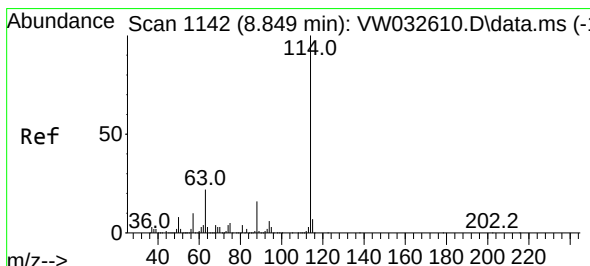
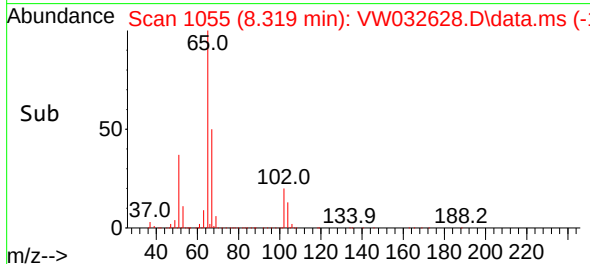
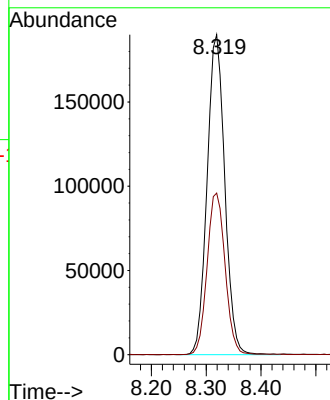
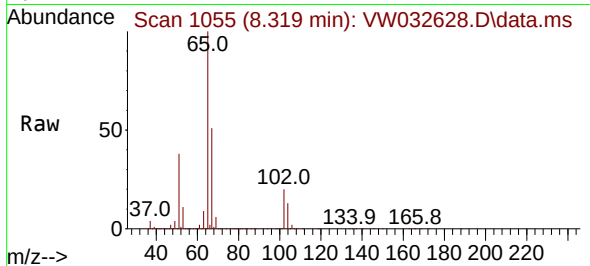




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.789 ug/l  
 RT: 8.319 min Scan# 1055  
 Delta R.T. 0.000 min  
 Lab File: VW032628.D  
 Acq: 11 Dec 2025 13:32

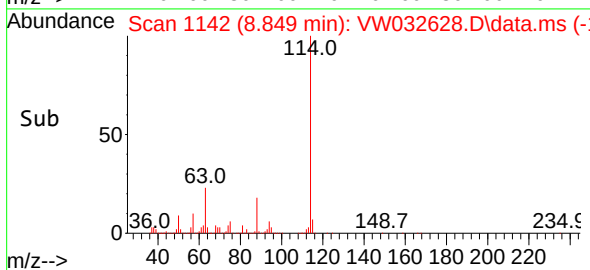
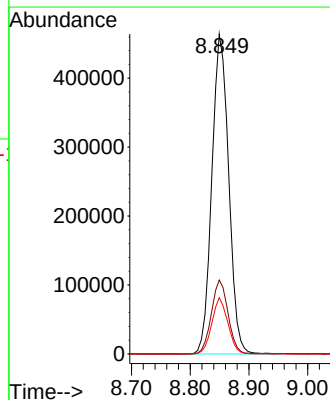
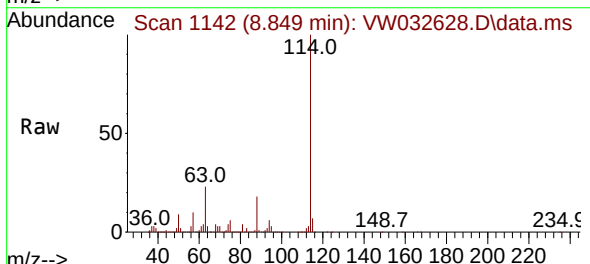
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 TP-10

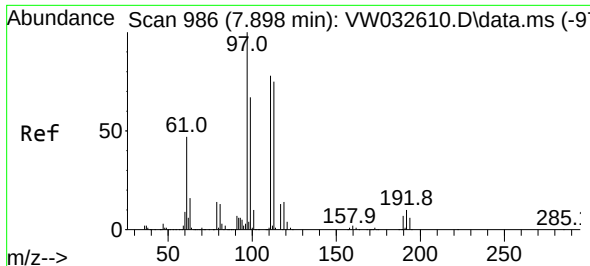
Tgt Ion: 65 Resp: 423926  
 Ion Ratio Lower Upper  
 65 100  
 67 51.6 0.0 105.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.849 min Scan# 1142  
 Delta R.T. 0.000 min  
 Lab File: VW032628.D  
 Acq: 11 Dec 2025 13:32

Tgt Ion: 114 Resp: 923504  
 Ion Ratio Lower Upper  
 114 100  
 63 23.1 0.0 44.6  
 88 17.6 0.0 31.8

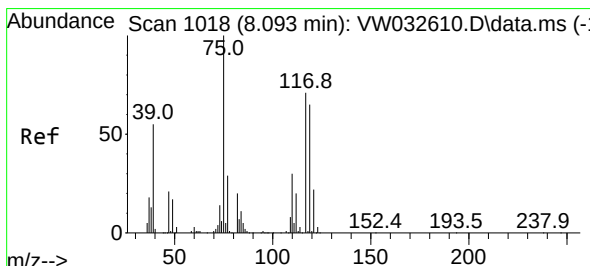
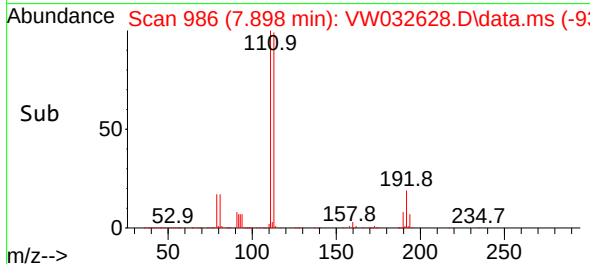
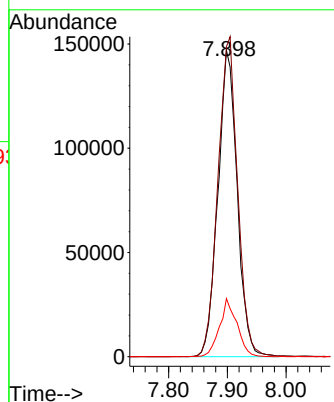
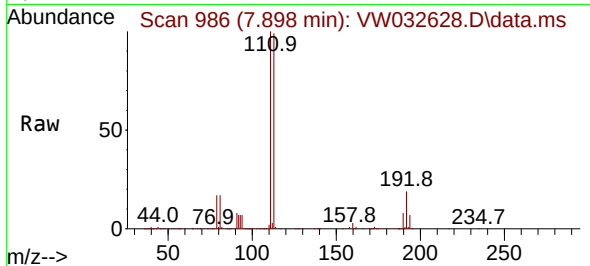




#35  
Dibromofluoromethane  
Concen: 50.960 ug/l  
RT: 7.898 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

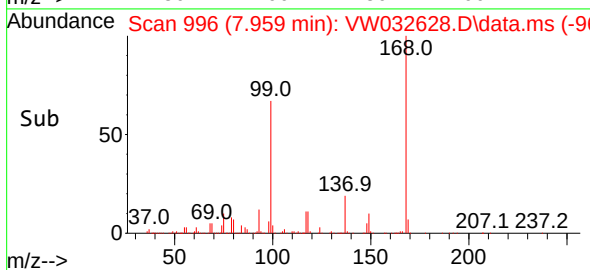
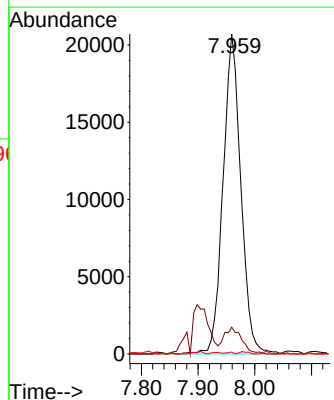
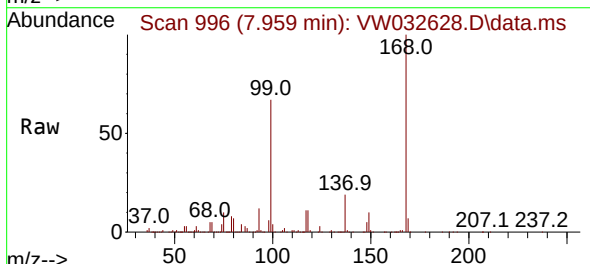
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

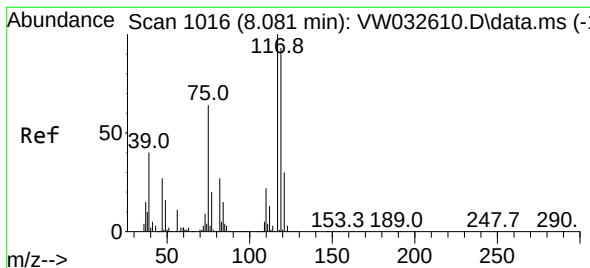
Tgt Ion:113 Resp: 335862  
Ion Ratio Lower Upper  
113 100  
111 106.3 85.2 127.8  
192 17.2 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.749 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.134 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Tgt Ion: 75 Resp: 45155  
Ion Ratio Lower Upper  
75 100  
110 8.3 16.3 48.9#  
77 0.2 24.6 37.0#





#38

Carbon Tetrachloride

Concen: 6.007 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.116 min

Lab File: VW032628.D

Acq: 11 Dec 2025 13:32

Instrument :

MSVOA\_W

ClientSampleId :

TP-10

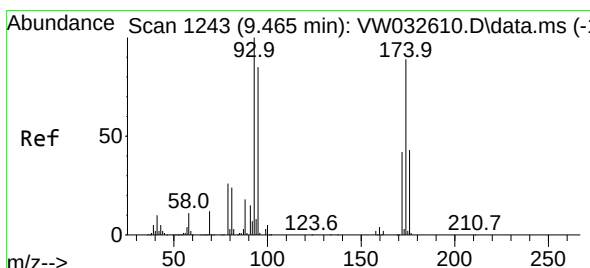
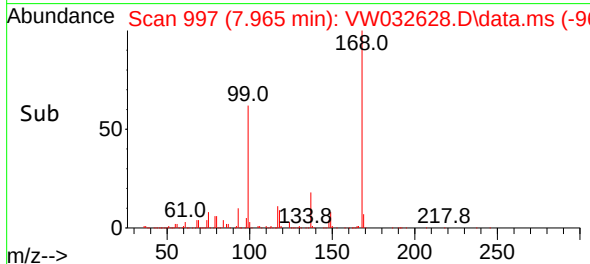
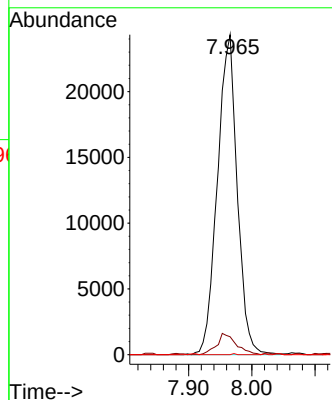
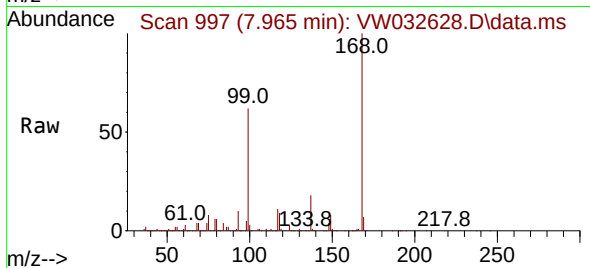
Tgt Ion:117 Resp: 52832

Ion Ratio Lower Upper

117 100

119 5.3 74.3 111.5#

121 0.0 23.6 35.4#



#49

1,4-Dioxane

Concen: 2.737 ug/l

RT: 9.471 min Scan# 1244

Delta R.T. 0.006 min

Lab File: VW032628.D

Acq: 11 Dec 2025 13:32

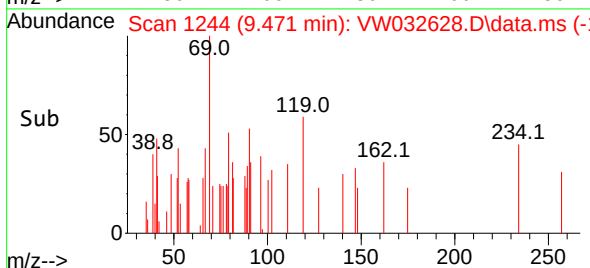
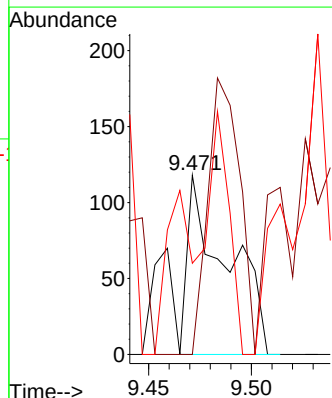
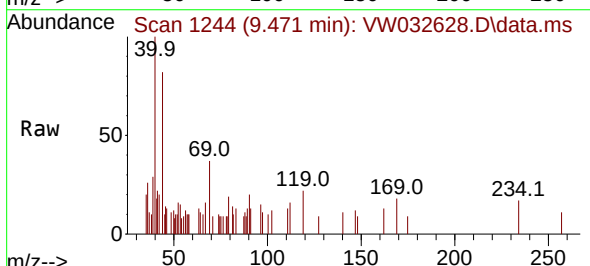
Tgt Ion: 88 Resp: 157

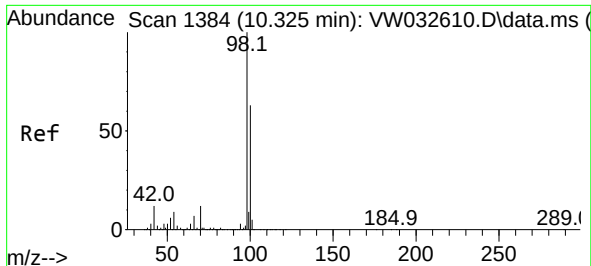
Ion Ratio Lower Upper

88 100

43 0.0 0.0 0.0

58 58.0 63.8 95.8#

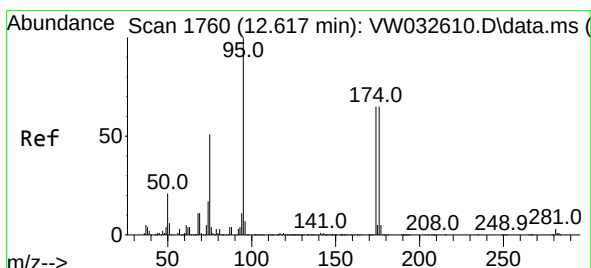
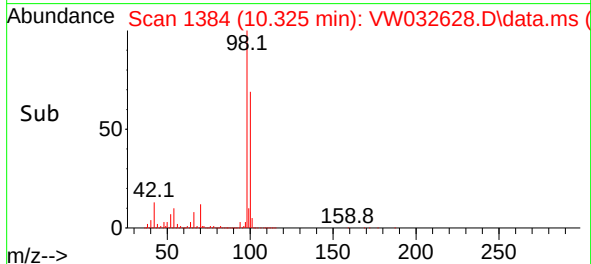
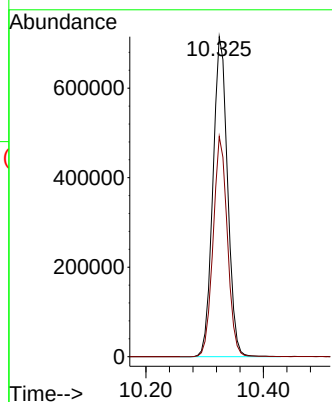
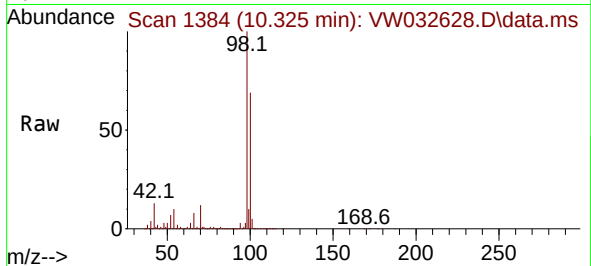




#50  
Toluene-d8  
Concen: 52.159 ug/l  
RT: 10.325 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

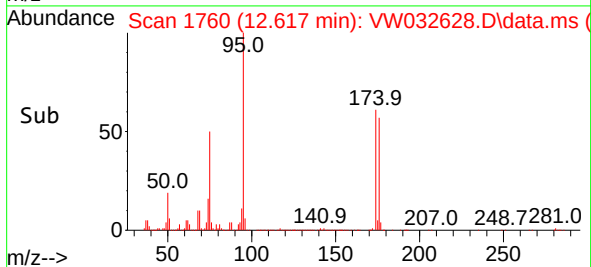
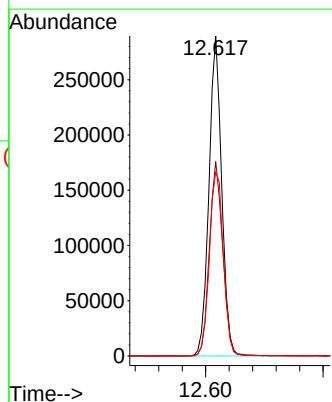
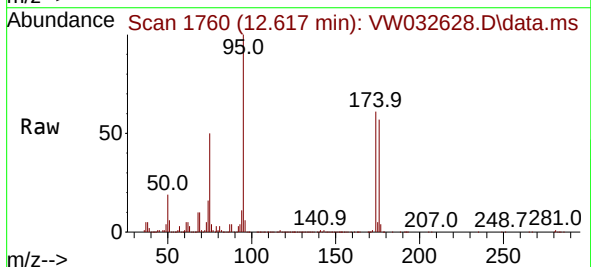
Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

Tgt Ion: 98 Resp: 1236203  
Ion Ratio Lower Upper  
98 100  
100 67.0 52.2 78.2

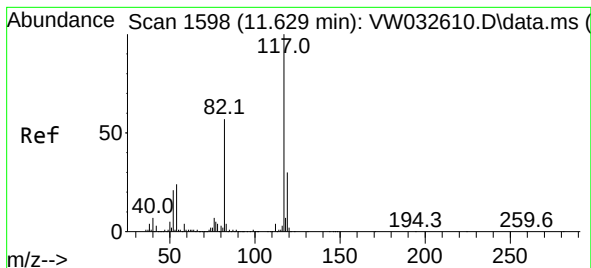


#62  
4-Bromofluorobenzene  
Concen: 50.133 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.000 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Tgt Ion: 95 Resp: 436231  
Ion Ratio Lower Upper  
95 100  
174 63.7 0.0 135.0  
176 62.9 0.0 123.4







#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032628.D

Acq: 11 Dec 2025 13:32

Instrument :

MSVOA\_W

ClientSampleId :

TP-10

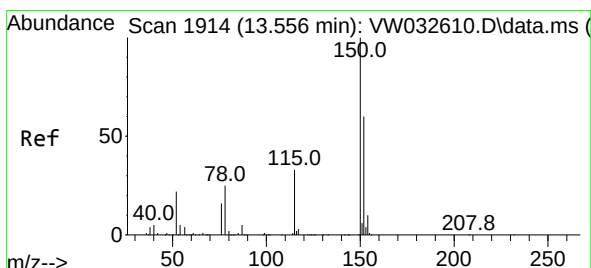
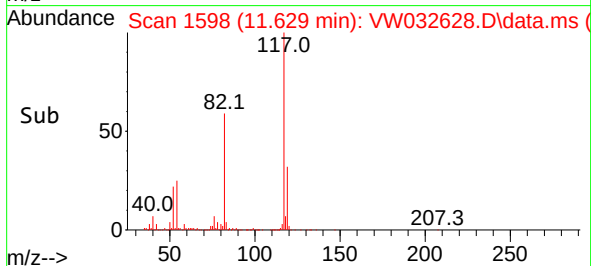
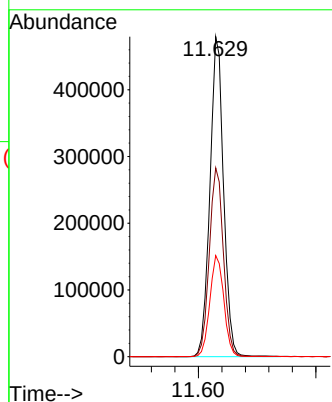
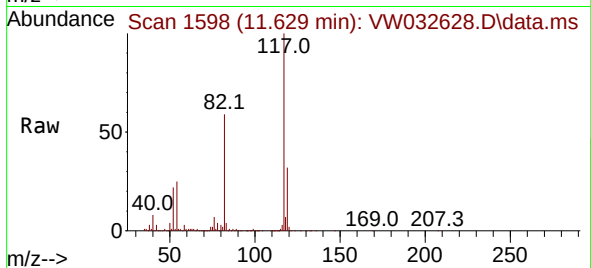
Tgt Ion:117 Resp: 773483

Ion Ratio Lower Upper

117 100

82 59.0 45.5 68.3

119 31.6 23.8 35.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032628.D

Acq: 11 Dec 2025 13:32

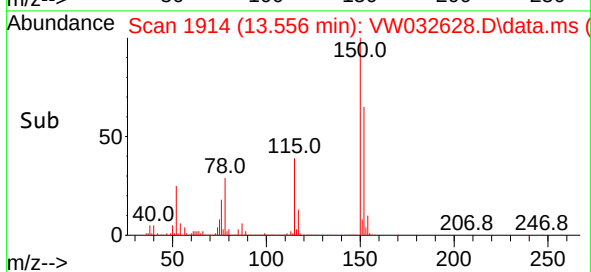
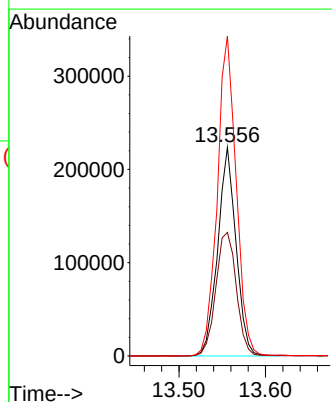
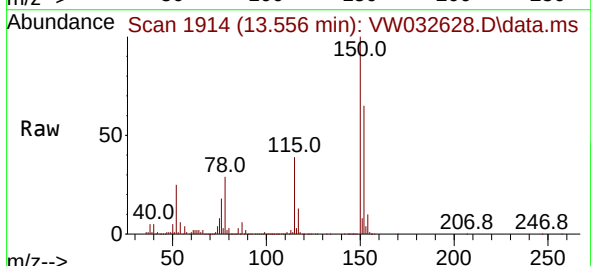
Tgt Ion:152 Resp: 329610

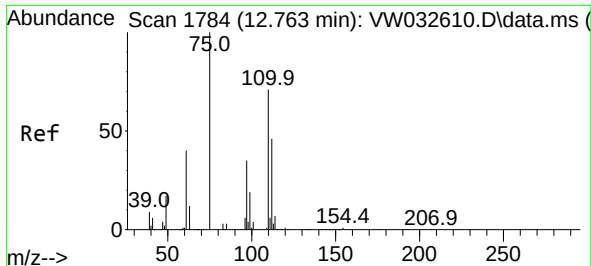
Ion Ratio Lower Upper

152 100

115 66.4 33.8 101.3

150 158.0 0.0 369.4

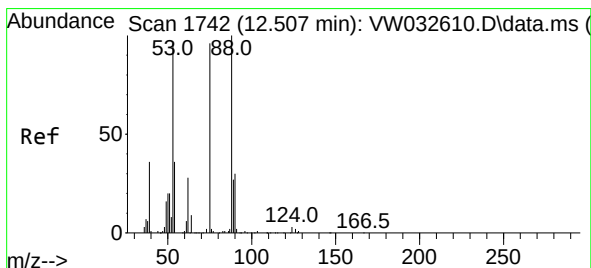
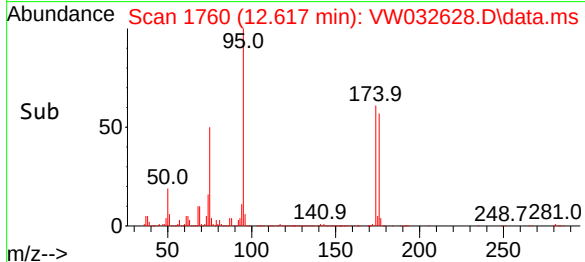
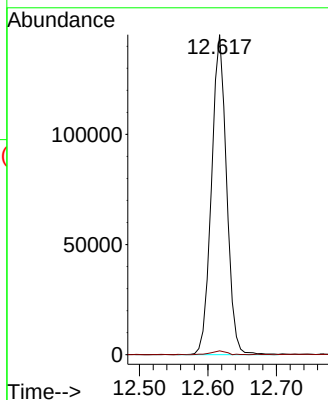
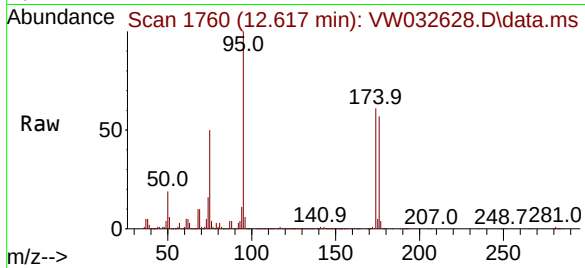




#76  
1,2,3-Trichloropropane  
Concen: 50.195 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.146 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Instrument :  
MSVOA\_W  
ClientSampleId :  
TP-10

Tgt Ion: 75 Resp: 222013  
Ion Ratio Lower Upper  
75 100  
77 1.2 154.0 462.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 100.242 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.110 min  
Lab File: VW032628.D  
Acq: 11 Dec 2025 13:32

Tgt Ion: 75 Resp: 222013  
Ion Ratio Lower Upper  
75 100  
53 0.2 86.1 129.1#  
89 0.0 37.4 56.2#

