

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX082025\
 Data File : VX047432.D
 Acq On : 20 Aug 2025 11:28
 Operator : JC/MD
 Sample : Q2815-21RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-11M-ERE

Quant Time: Aug 21 01:28:44 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.568	168	288810	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	596562	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	600326	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	298812	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.970	65	240940	59.609	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 119.220%#	
35) Dibromofluoromethane	5.397	113	204272	52.760	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 105.520%	
50) Toluene-d8	8.653	98	718573	51.925	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.860%	
62) 4-Bromofluorobenzene	11.079	95	298984	58.547	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 117.100%	

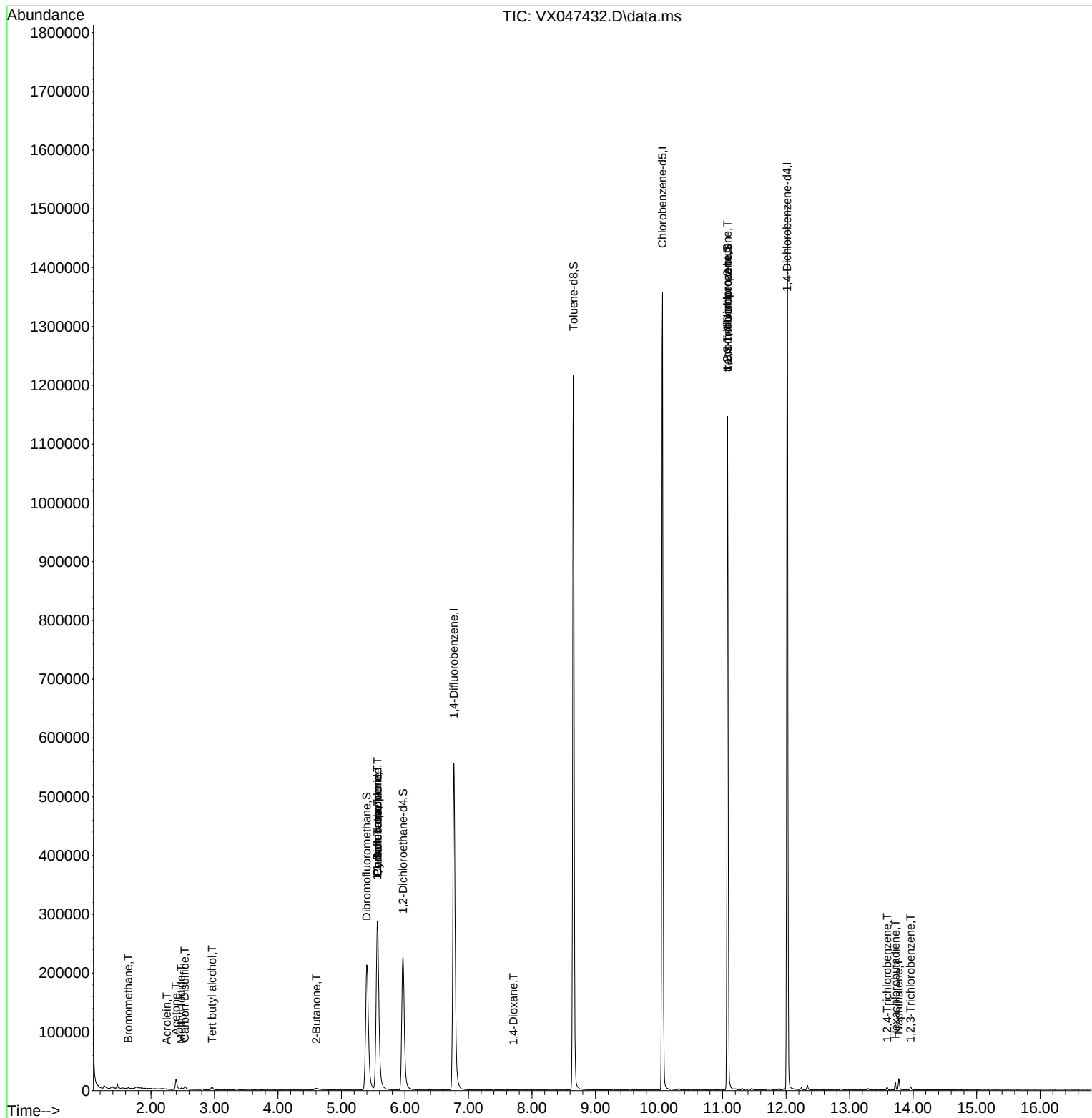
Target Compounds				Qvalue		
5) Bromomethane	1.642	94	904	0.538	ug/l	81
10) Methyl Iodide	2.477	142	3778	0.618	ug/l #	47
11) Tert butyl alcohol	2.965	59	1774	5.045	ug/l #	76
13) Acrolein	2.252	56	218	0.294	ug/l #	27
16) Acetone	2.392	43	24055	15.833	ug/l	96
17) Carbon Disulfide	2.532	76	4224	0.385	ug/l	98
25) 2-Butanone	4.605	43	6231	3.131	ug/l #	50
31) Cyclohexane	5.568	56	6655	1.023	ug/l #	40
36) 1,1-Dichloropropene	5.562	75	24276	3.972	ug/l #	50
38) Carbon Tetrachloride	5.568	117	30393	4.551	ug/l #	15
49) 1,4-Dioxane	7.708	88	24	0.522	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	158652	28.948	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.079	75	158652	113.904	ug/l #	7
93) 1,2,4-Trichlorobenzene	13.591	180	1402	0.202	ug/l	92
94) Hexachlorobutadiene	13.725	225	1633	0.661	ug/l	91
95) Naphthalene	13.774	128	13378	0.674	ug/l	100
96) 1,2,3-Trichlorobenzene	13.963	180	1728	0.264	ug/l	91

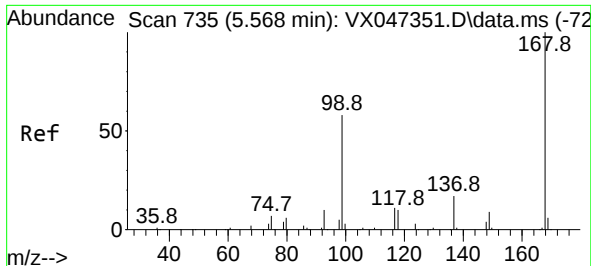
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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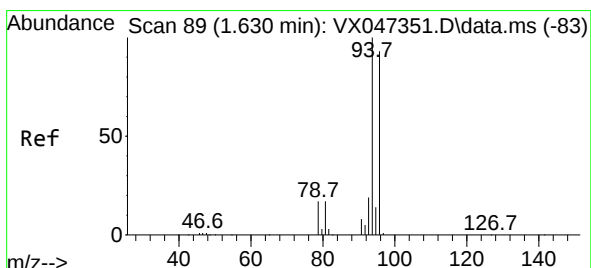
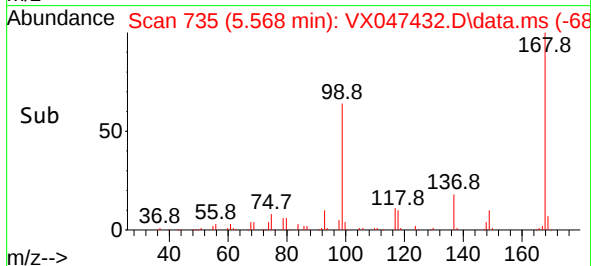
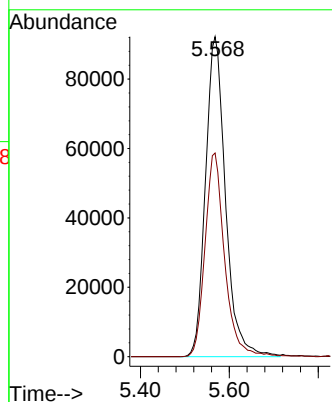
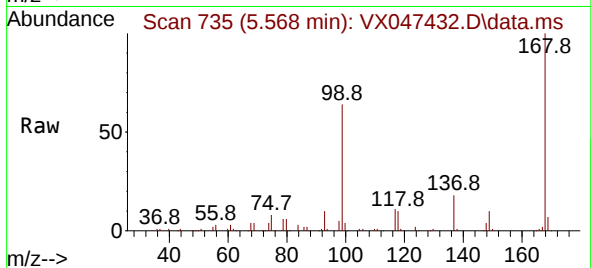




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

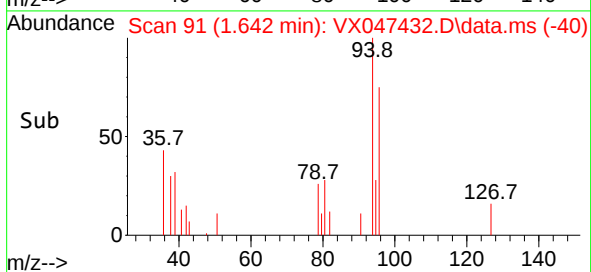
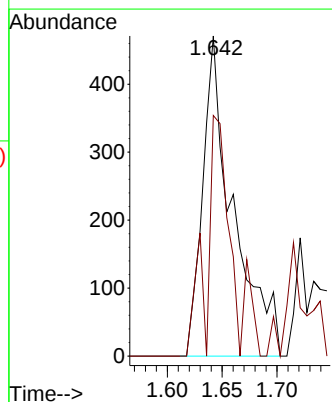
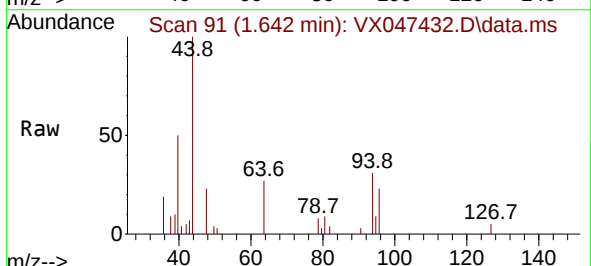
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

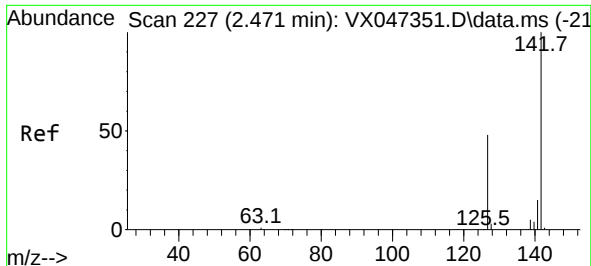
Tgt Ion:168 Resp: 288810
Ion Ratio Lower Upper
168 100
99 63.7 47.9 71.9



#5
Bromomethane
Concen: 0.538 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.012 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 94 Resp: 904
Ion Ratio Lower Upper
94 100
96 75.2 74.7 112.1

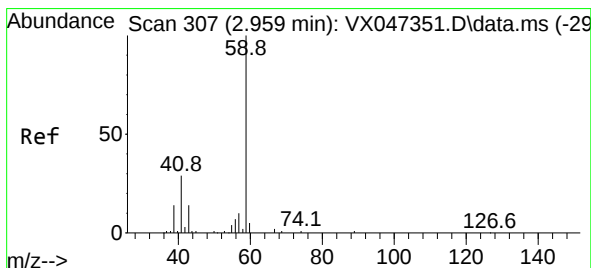
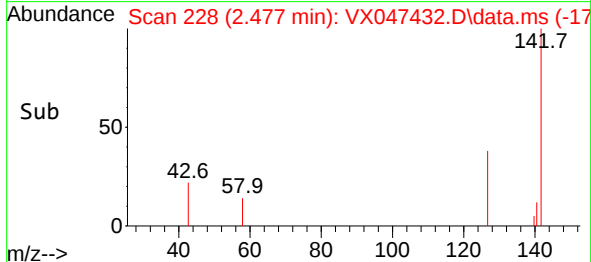
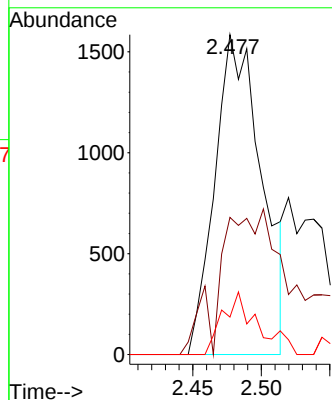
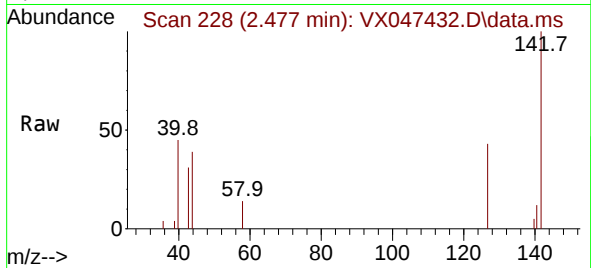




#10
Methyl Iodide
Concen: 0.618 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

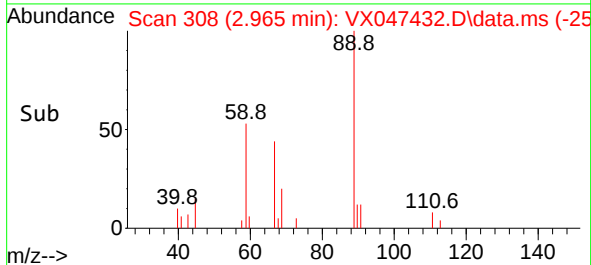
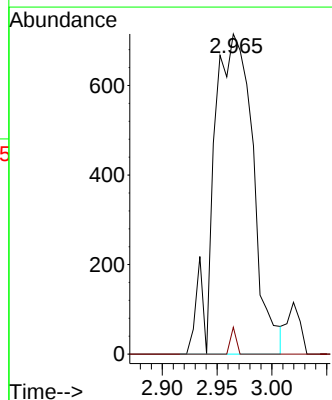
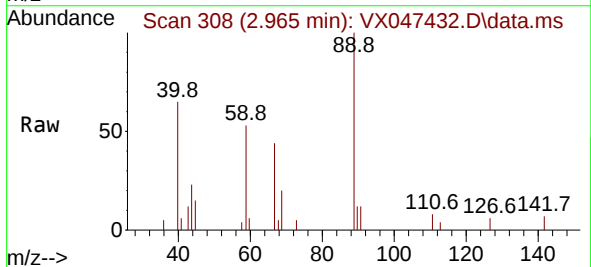
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

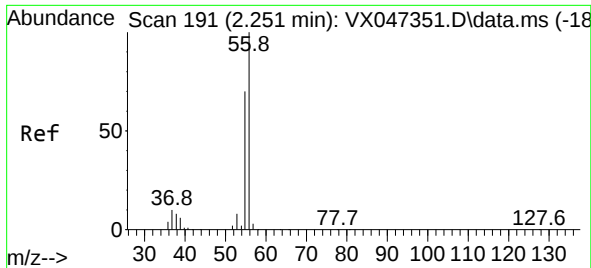
Tgt Ion:142 Resp: 3778
Ion Ratio Lower Upper
142 100
127 0.0 36.1 54.1#
141 14.7 11.1 16.7



#11
Tert butyl alcohol
Concen: 5.045 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 59 Resp: 1774
Ion Ratio Lower Upper
59 100
57 1.2 8.3 12.5#

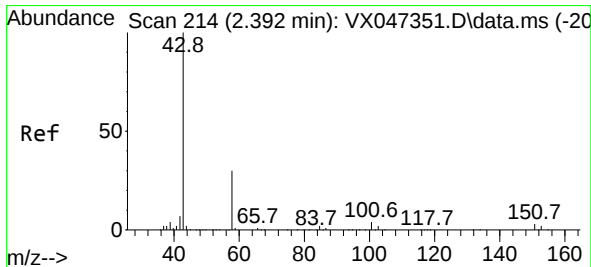
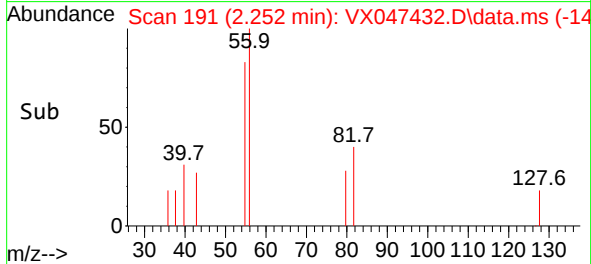
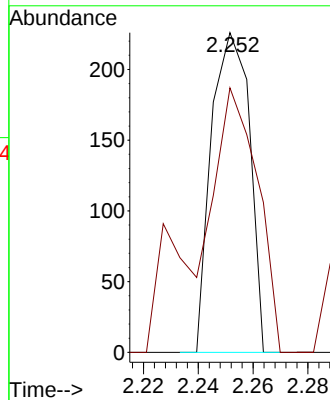
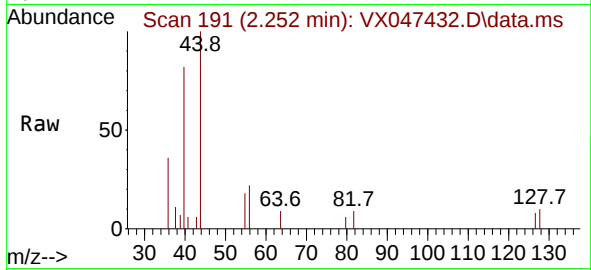




#13
Acrolein
Concen: 0.294 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

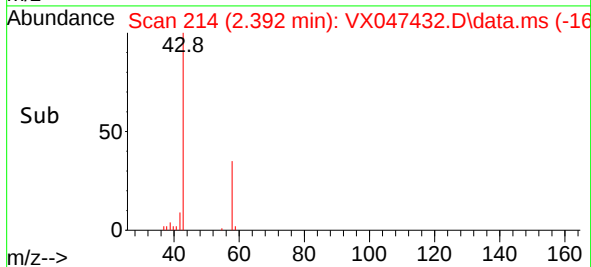
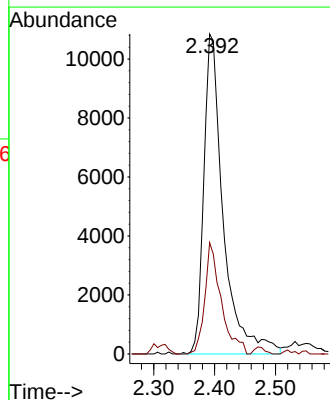
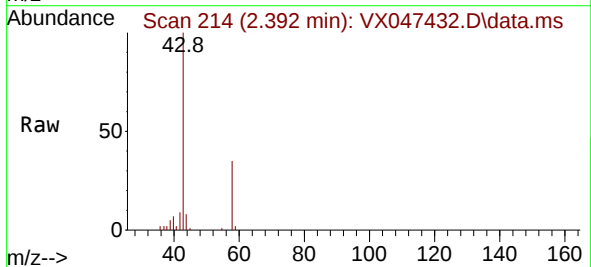
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

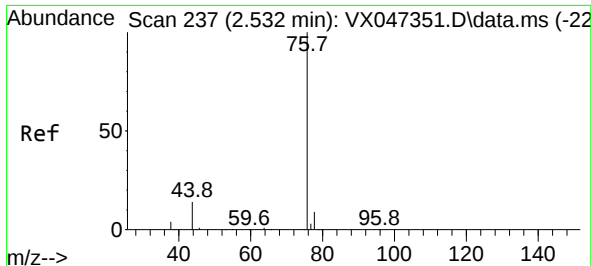
Tgt Ion: 56 Resp: 218
Ion Ratio Lower Upper
56 100
55 128.9 55.5 83.3#



#16
Acetone
Concen: 15.833 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 43 Resp: 24055
Ion Ratio Lower Upper
43 100
58 32.9 24.8 37.2





#17

Carbon Disulfide

Concen: 0.385 ug/l

RT: 2.532 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX047432.D

Acq: 20 Aug 2025 11:28

Instrument :

MSVOA_X

ClientSampleId :

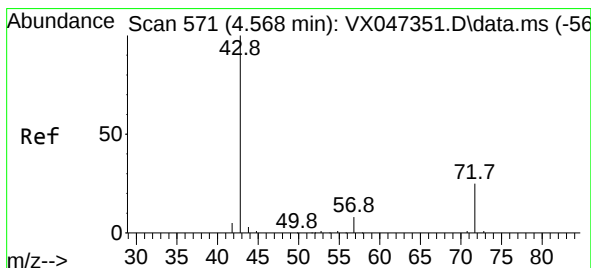
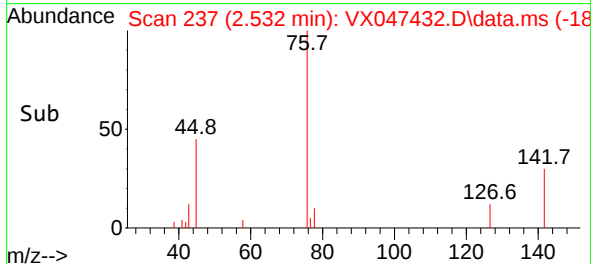
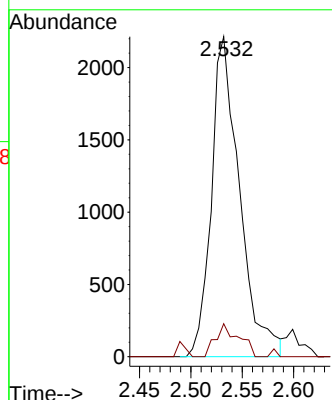
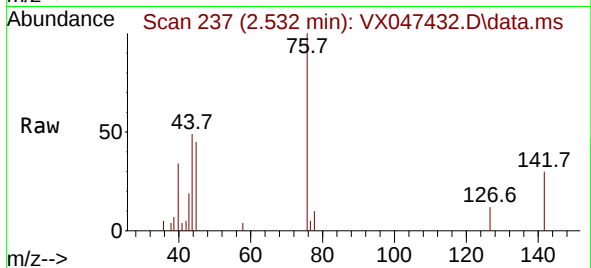
TW-11M-ERE

Tgt Ion: 76 Resp: 4224

Ion Ratio Lower Upper

76 100

78 9.8 7.2 10.8



#25

2-Butanone

Concen: 3.131 ug/l

RT: 4.605 min Scan# 577

Delta R.T. 0.037 min

Lab File: VX047432.D

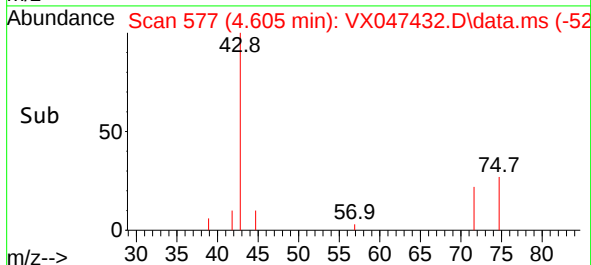
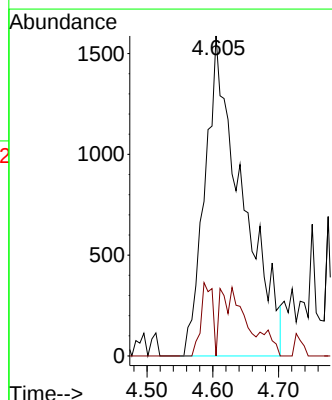
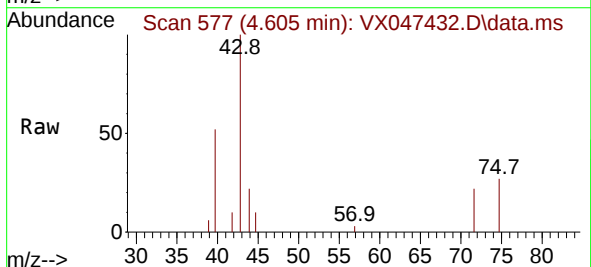
Acq: 20 Aug 2025 11:28

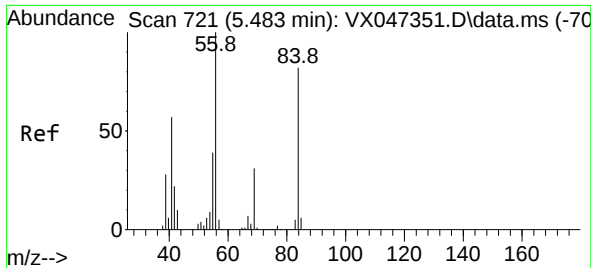
Tgt Ion: 43 Resp: 6231

Ion Ratio Lower Upper

43 100

72 0.0 19.8 29.8#

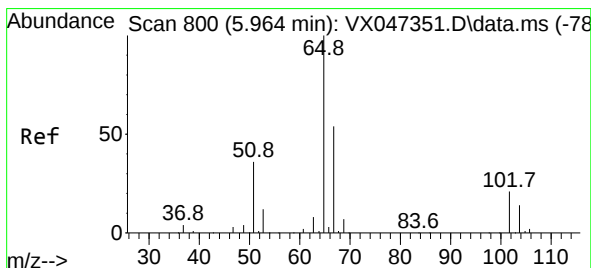
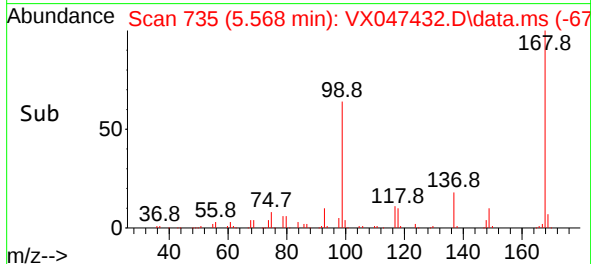
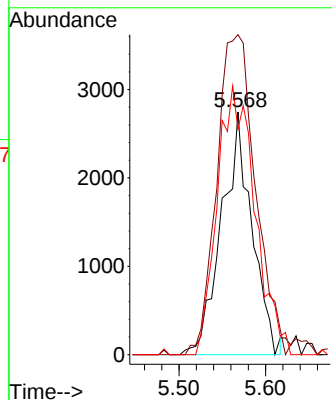
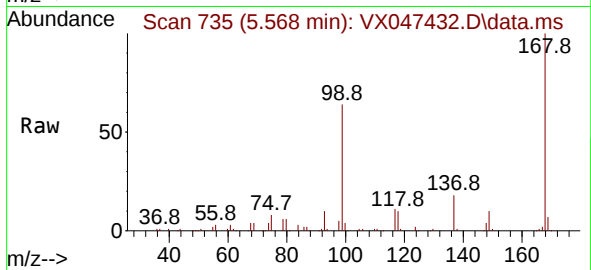




#31
Cyclohexane
Concen: 1.023 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.085 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

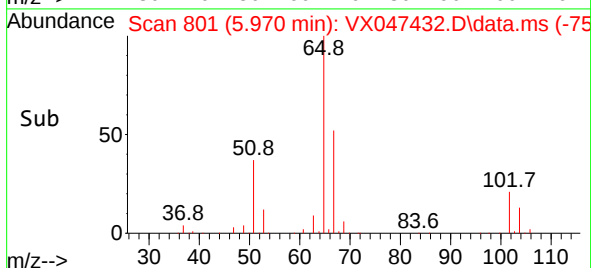
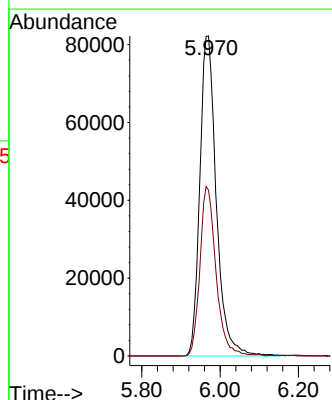
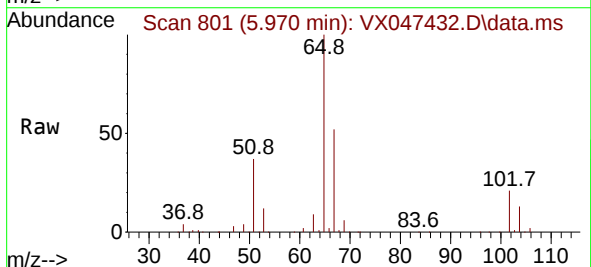
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TW-11M-ERE

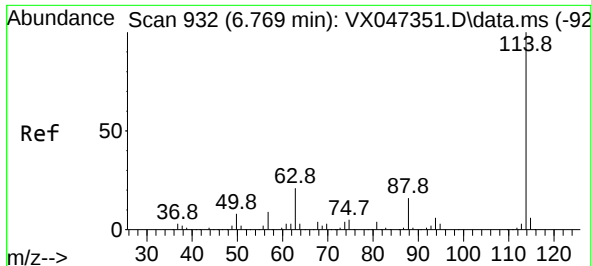
Tgt Ion: 56 Resp: 6655
Ion Ratio Lower Upper
56 100
69 131.9 24.3 36.5#
84 92.9 65.3 97.9



#33
1,2-Dichloroethane-d4
Concen: 59.609 ug/l
RT: 5.970 min Scan# 801
Delta R.T. 0.006 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 65 Resp: 240940
Ion Ratio Lower Upper
65 100
67 51.5 0.0 106.0

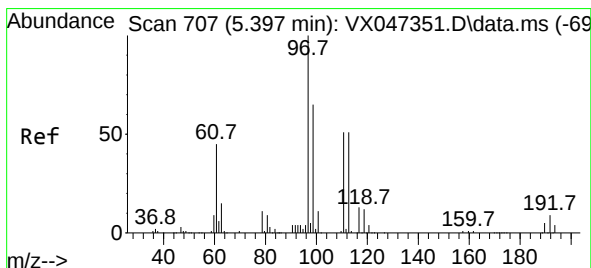
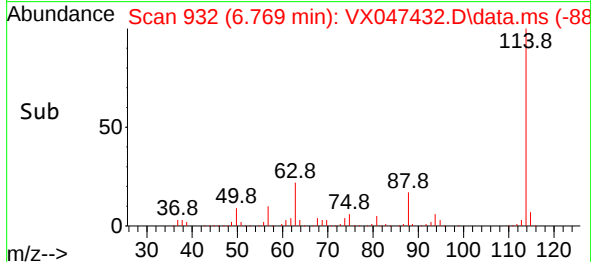
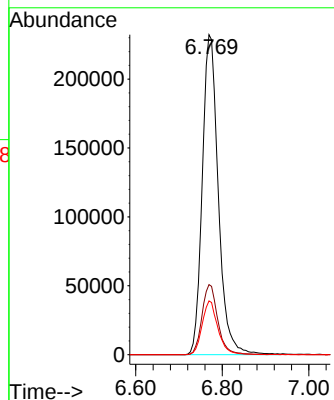
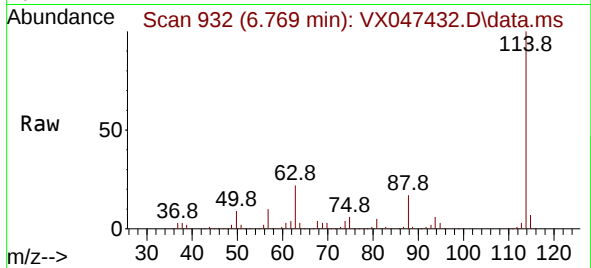




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

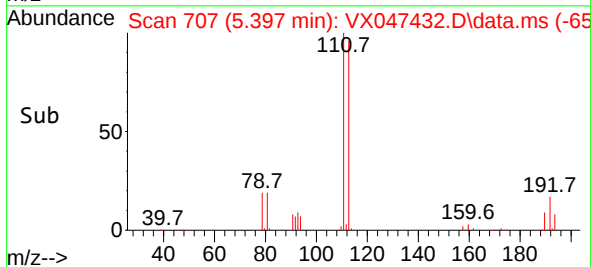
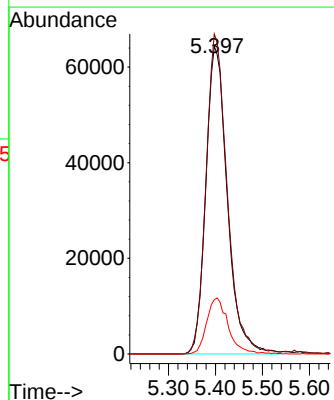
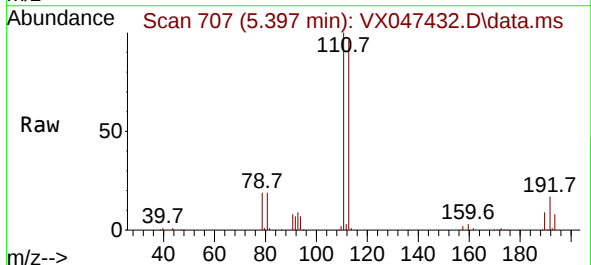
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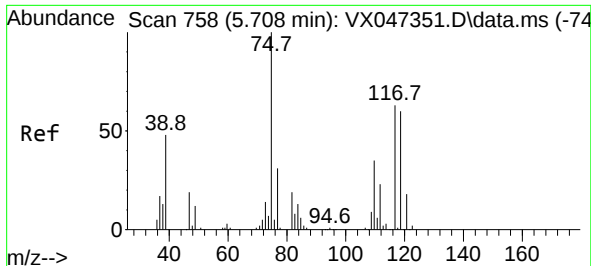
Tgt Ion:114 Resp: 596562
Ion Ratio Lower Upper
114 100
63 21.9 0.0 42.4
88 16.8 0.0 33.0



#35
Dibromofluoromethane
Concen: 52.760 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion:113 Resp: 204272
Ion Ratio Lower Upper
113 100
111 102.6 81.4 122.2
192 18.3 14.1 21.1





#36

1,1-Dichloropropene

Concen: 3.972 ug/l

RT: 5.562 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047432.D

Acq: 20 Aug 2025 11:28

Instrument :

MSVOA_X

ClientSampleId :

TW-11M-ERE

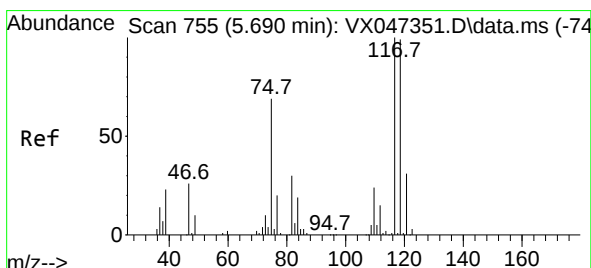
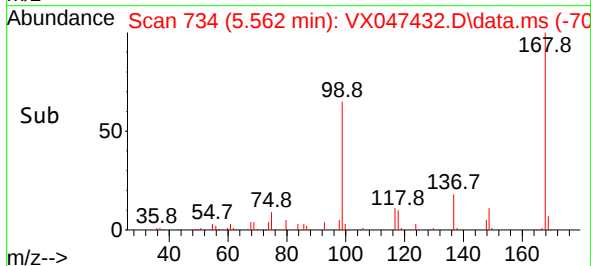
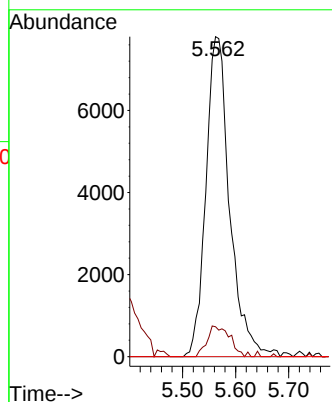
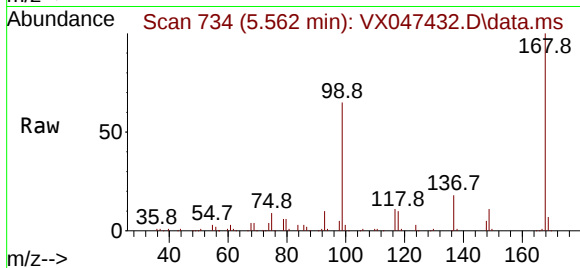
Tgt Ion: 75 Resp: 24276

Ion Ratio Lower Upper

75 100

110 9.3 17.4 52.2#

77 0.0 24.4 36.6#



#38

Carbon Tetrachloride

Concen: 4.551 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.122 min

Lab File: VX047432.D

Acq: 20 Aug 2025 11:28

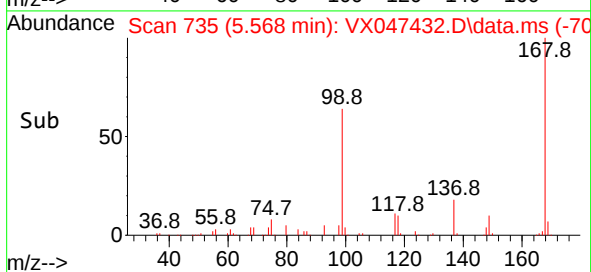
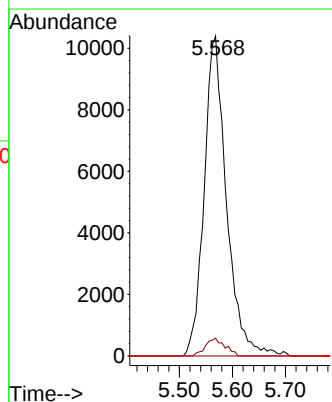
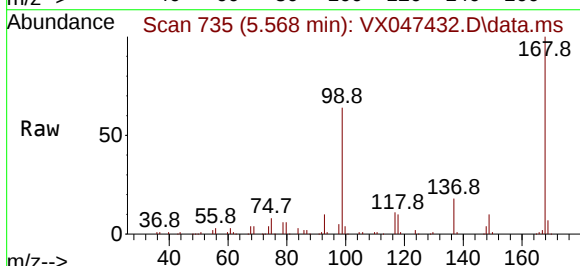
Tgt Ion: 117 Resp: 30393

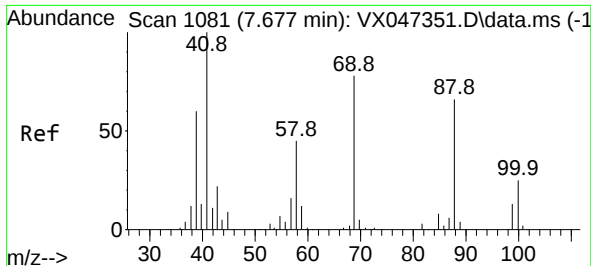
Ion Ratio Lower Upper

117 100

119 5.5 78.5 117.7#

121 0.0 24.7 37.1#





#49

1,4-Dioxane

Concen: 0.522 ug/l

RT: 7.708 min Scan# 1086

Delta R.T. 0.031 min

Lab File: VX047432.D

Acq: 20 Aug 2025 11:28

Instrument :

MSVOA_X

ClientSampleId :

TW-11M-ERE

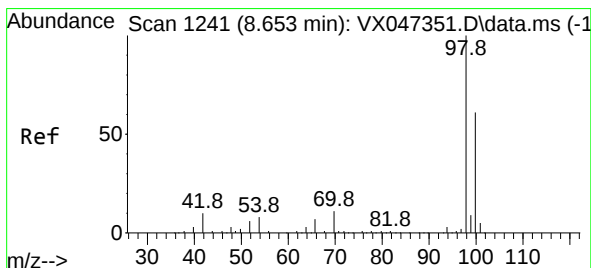
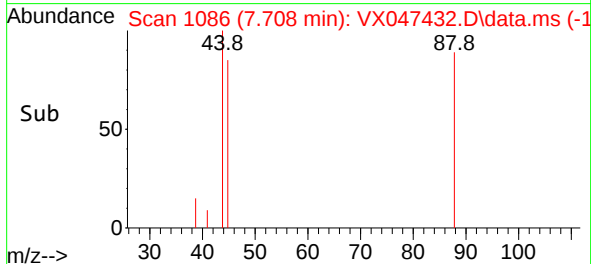
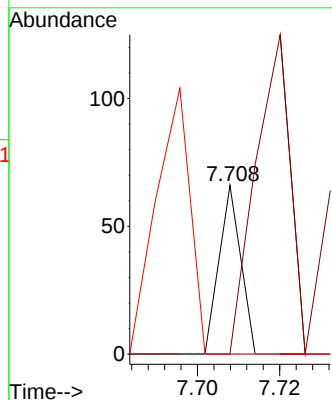
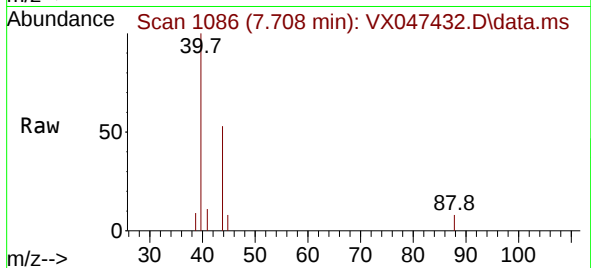
Tgt Ion: 88 Resp: 24

Ion Ratio Lower Upper

88 100

43 0.0 32.4 48.6#

58 250.0 56.9 85.3#



#50

Toluene-d8

Concen: 51.925 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.000 min

Lab File: VX047432.D

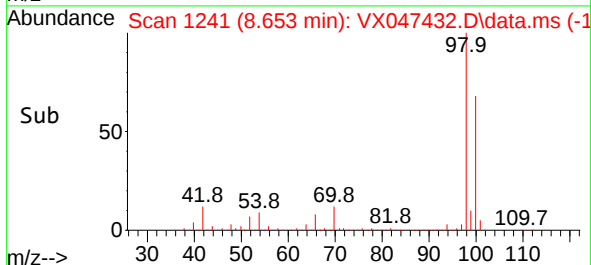
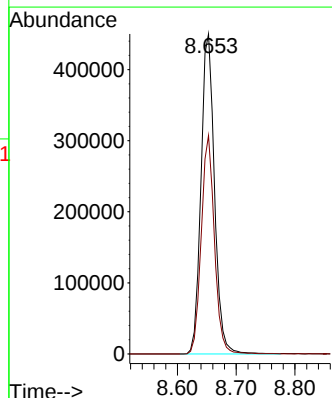
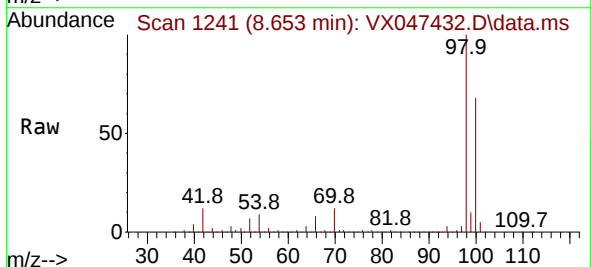
Acq: 20 Aug 2025 11:28

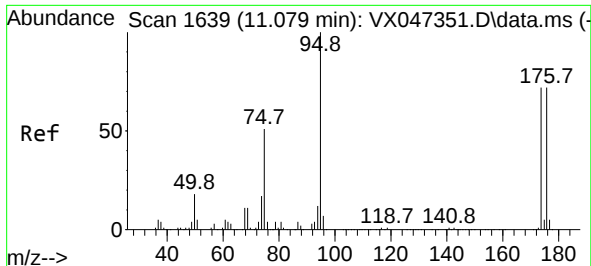
Tgt Ion: 98 Resp: 718573

Ion Ratio Lower Upper

98 100

100 66.8 53.9 80.9

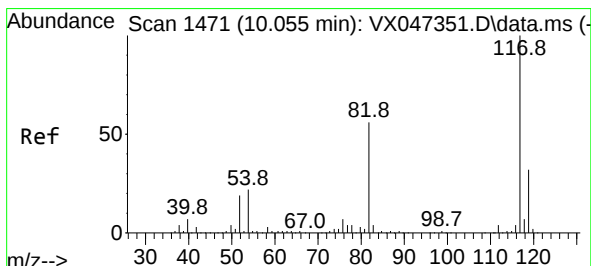
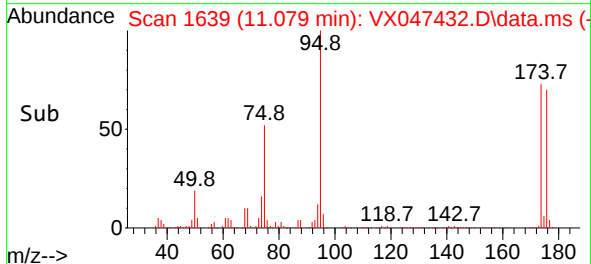
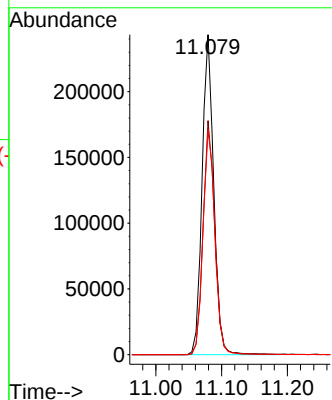
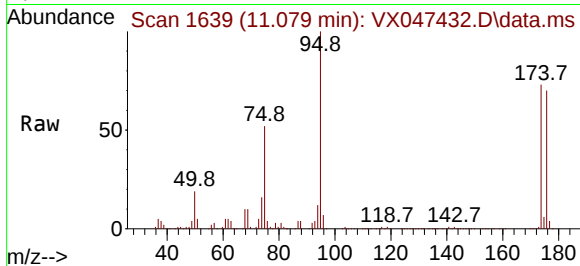




#62
4-Bromofluorobenzene
Concen: 58.547 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

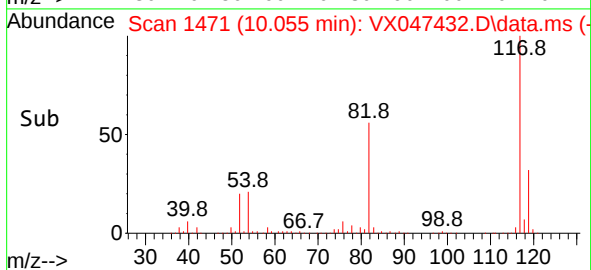
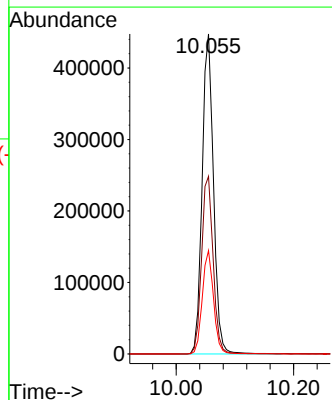
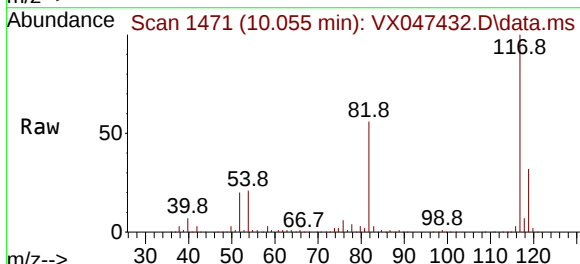
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

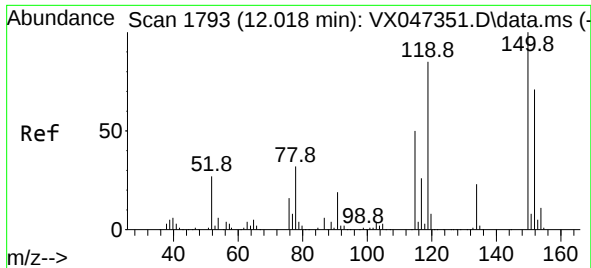
Tgt Ion: 95 Resp: 298984
Ion Ratio Lower Upper
95 100
174 73.9 0.0 148.0
176 71.6 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion: 117 Resp: 600326
Ion Ratio Lower Upper
117 100
82 55.5 45.0 67.4
119 32.3 25.8 38.8

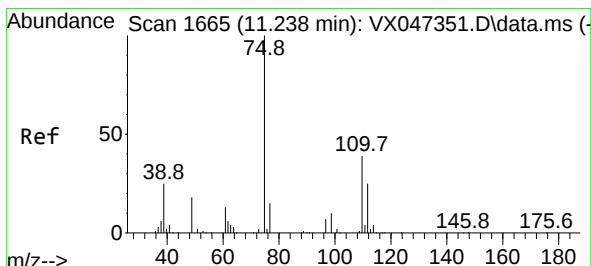
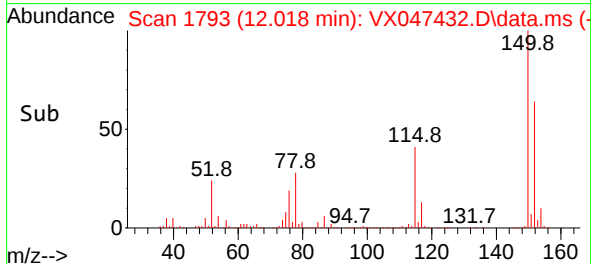
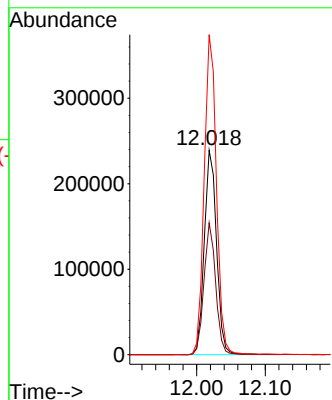
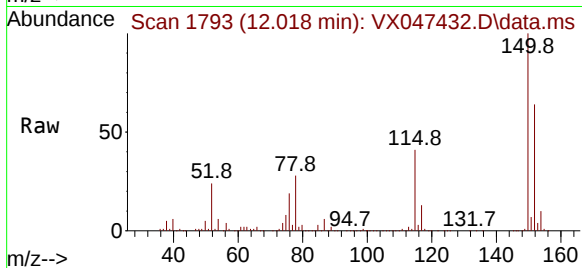




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX047432.D
 Acq: 20 Aug 2025 11:28

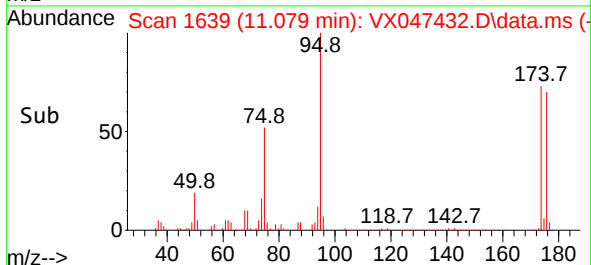
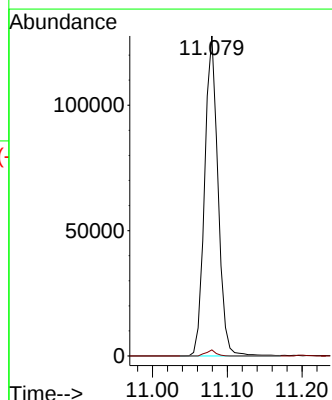
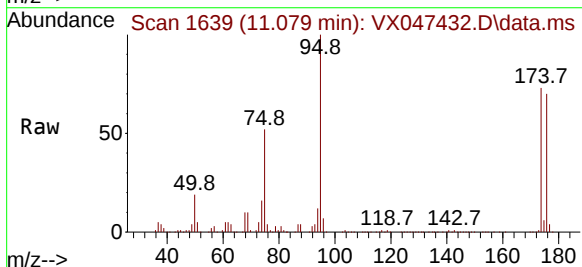
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-11M-ERE

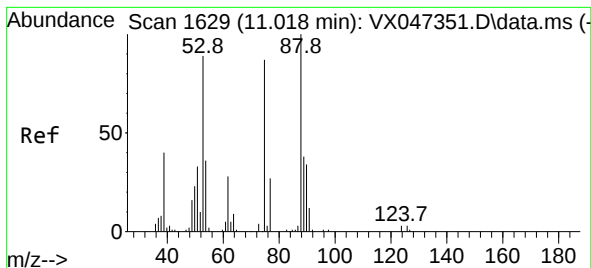
Tgt Ion:152 Resp: 298812
 Ion Ratio Lower Upper
 152 100
 115 61.9 44.6 133.8
 150 156.0 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 28.948 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX047432.D
 Acq: 20 Aug 2025 11:28

Tgt Ion: 75 Resp: 158652
 Ion Ratio Lower Upper
 75 100
 77 1.4 19.4 58.2#

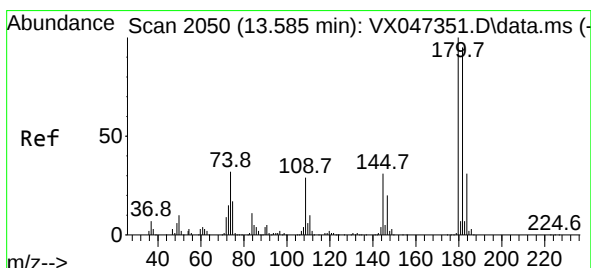
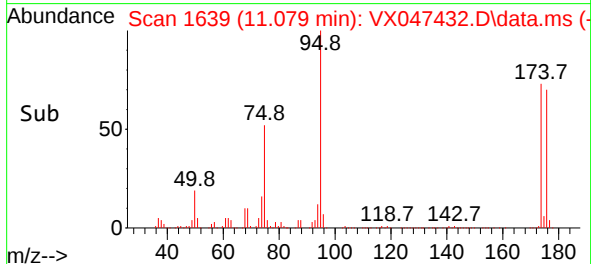
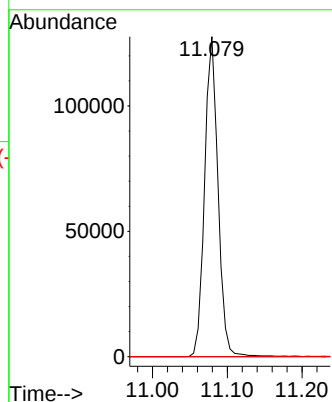
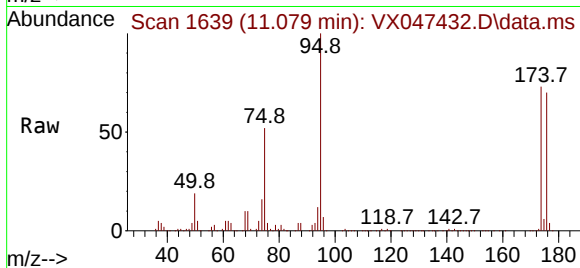




#81
trans-1,4-Dichloro-2-butene
Concen: 113.904 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

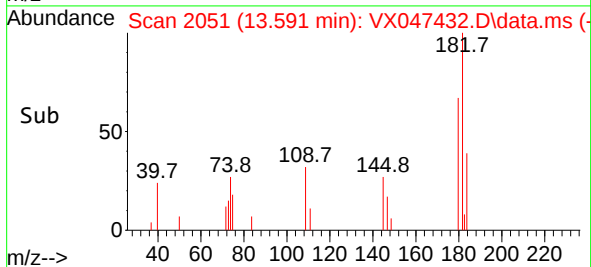
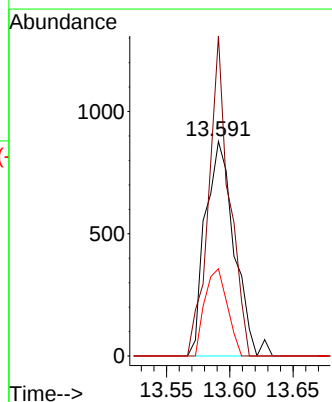
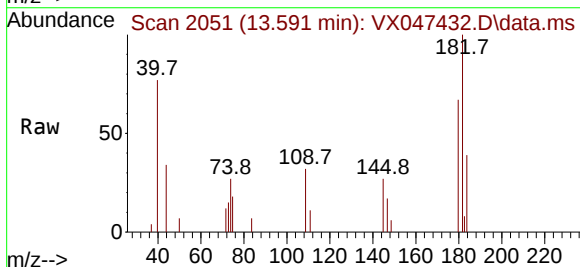
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

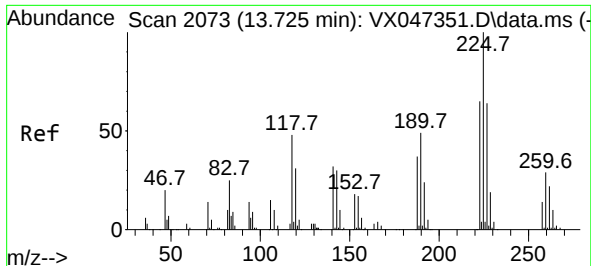
Tgt Ion: 75 Resp: 158652
Ion Ratio Lower Upper
75 100
53 0.0 85.2 127.8#
89 0.0 36.7 55.1#



#93
1,2,4-Trichlorobenzene
Concen: 0.202 ug/l
RT: 13.591 min Scan# 2051
Delta R.T. 0.006 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

Tgt Ion:180 Resp: 1402
Ion Ratio Lower Upper
180 100
182 105.8 48.1 144.4
145 31.5 16.2 48.5

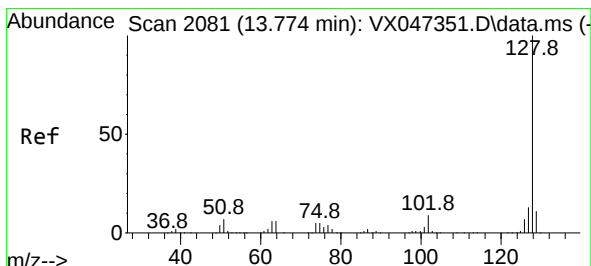
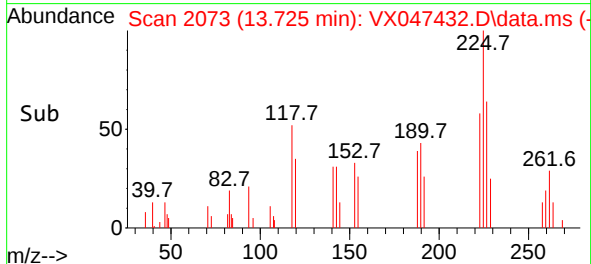
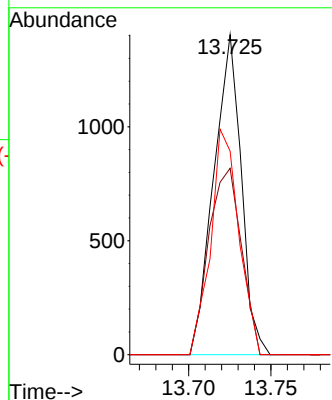
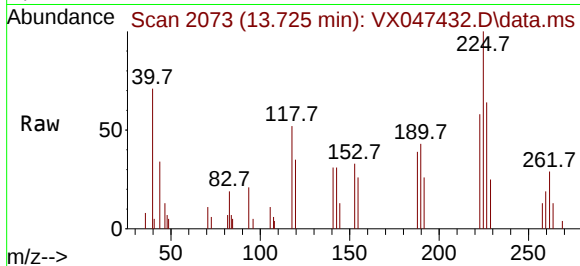




#94
Hexachlorobutadiene
Concen: 0.661 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

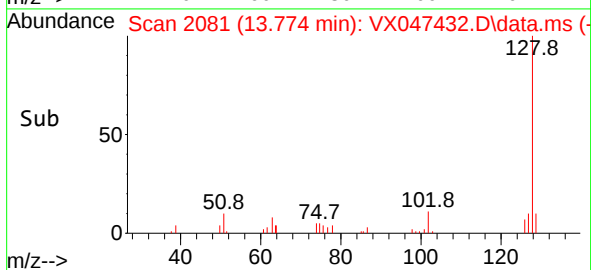
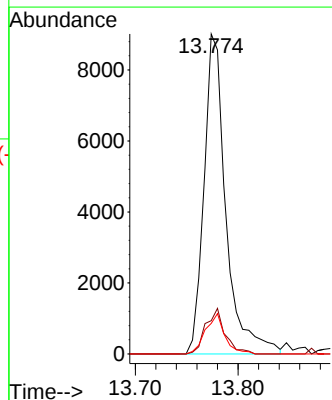
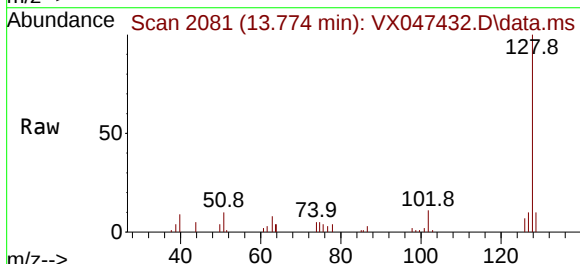
Instrument :
MSVOA_X
ClientSampleId :
TW-11M-ERE

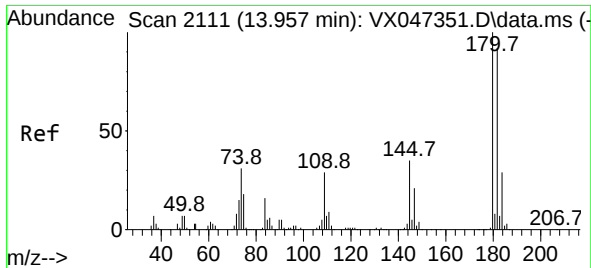
Tgt Ion:	225	Resp:	1633
Ion Ratio	Lower	Upper	
225	100		
223	69.2	32.2	96.6
227	72.0	31.6	95.0



#95
Naphthalene
Concen: 0.674 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. 0.000 min
Lab File: VX047432.D
Acq: 20 Aug 2025 11:28

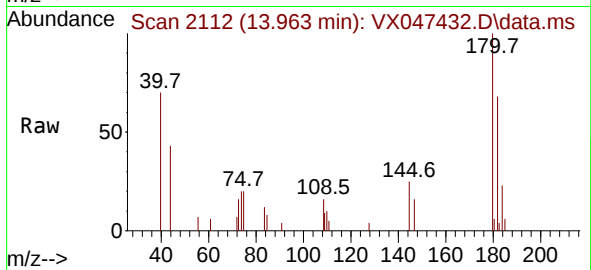
Tgt Ion:	128	Resp:	13378
Ion Ratio	Lower	Upper	
128	100		
127	12.6	10.1	15.1
129	11.1	8.7	13.1





#96
 1,2,3-Trichlorobenzene
 Concen: 0.264 ug/l
 RT: 13.963 min Scan# 2112
 Delta R.T. 0.006 min
 Lab File: VX047432.D
 Acq: 20 Aug 2025 11:28

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-11M-ERE



Tgt Ion:180 Resp: 1728
 Ion Ratio Lower Upper
 180 100
 182 85.8 48.0 144.2
 145 31.3 17.4 52.2

