

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX121225\
 Data File : VX048858.D
 Acq On : 12 Dec 2025 16:25
 Operator : JC/MD
 Sample : Q3849-08
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-7-121125

Quant Time: Dec 12 22:15:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X120425W.M
 Quant Title : SW846 8260
 QLast Update : Fri Dec 05 03:27:34 2025
 Response via : Initial Calibration

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

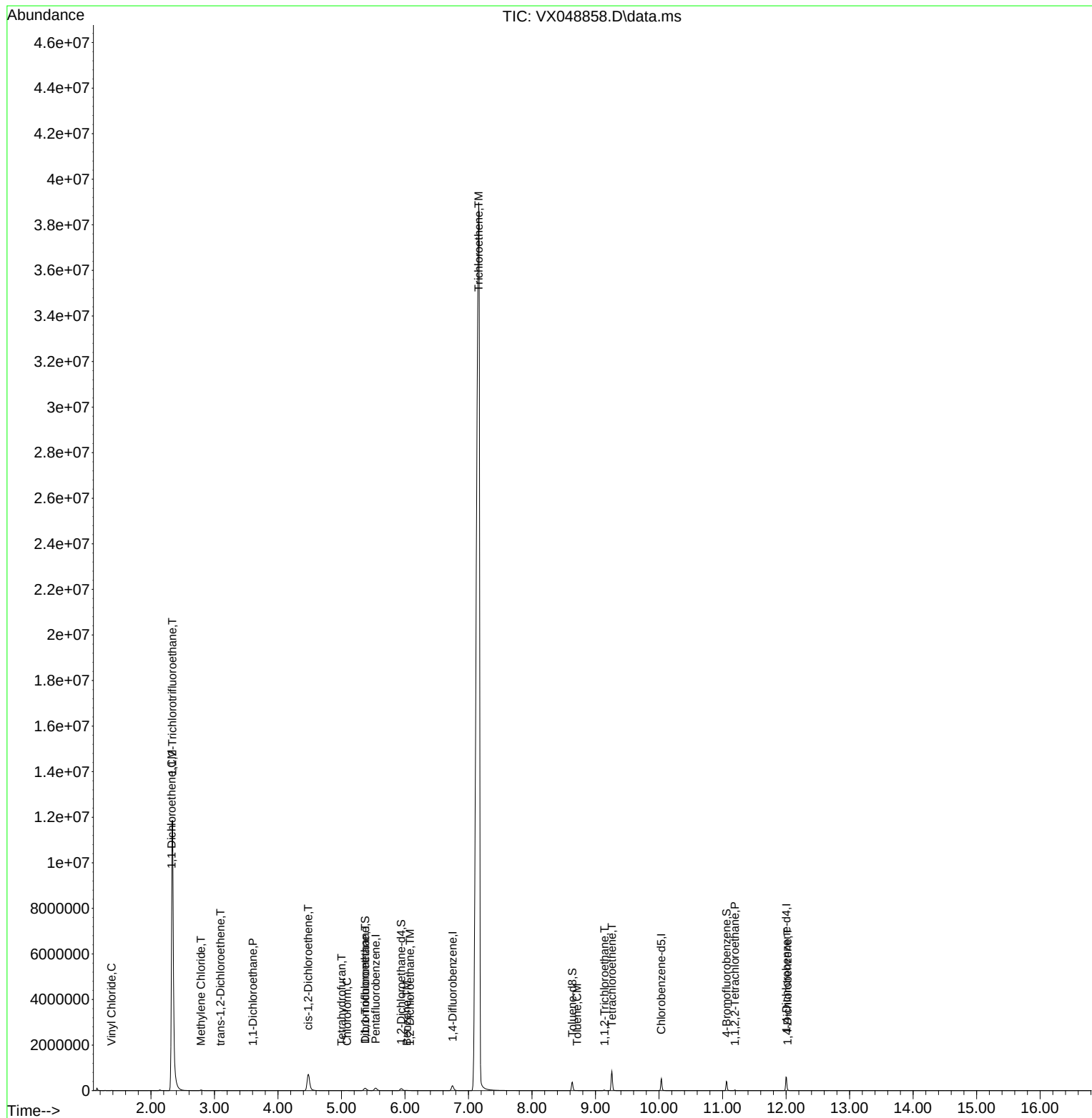
Internal Standards						
1) Pentafluorobenzene	5.538	168	116315	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	248523	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	239359	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	132589	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	99824	63.942	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 127.880%#	
35) Dibromofluoromethane	5.373	113	85678	50.070	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.140%	
50) Toluene-d8	8.635	98	236949	39.503	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 79.000%#	
62) 4-Bromofluorobenzene	11.061	95	113241	54.749	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 109.500%	
Target Compounds						Qvalue
4) Vinyl Chloride	1.380	62	8050	5.054	ug/l	100
9) 1,1,2-Trichlorotrifluo...	2.337	101	5408252	4086.795	ug/l	98
12) 1,1-Dichloroethene	2.325	96	59571	44.105	ug/l	98
20) Methylene Chloride	2.788	84	14014	9.381	ug/l	95
21) trans-1,2-Dichloroethene	3.093	96	2260	1.639	ug/l	86
24) 1,1-Dichloroethane	3.605	63	7277	3.079	ug/l	96
27) cis-1,2-Dichloroethene	4.477	96	517575	332.725	ug/l	94
29) Tetrahydrofuran	5.001	42	4339	6.442	ug/l #	75
30) Chloroform	5.086	83	9798	3.869	ug/l	98
32) 1,1,1-Trichloroethane	5.373	97	22473	9.905	ug/l #	95
40) Benzene	6.031	78	14912	2.146	ug/l	99
42) 1,2-Dichloroethane	6.080	62	5140	2.090	ug/l	90
44) Trichloroethene	7.159	130	24399897	13459.330	ug/l	95
52) Toluene	8.708	92	1857	0.443	ug/l	91
55) 1,1,2-Trichloroethane	9.141	97	8611	5.108	ug/l	95
64) Tetrachloroethene	9.256	164	165244	94.711	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.195	83	12815	4.251	ug/l	98
88) 1,4-Dichlorobenzene	12.024	146	3962	0.872	ug/l #	66

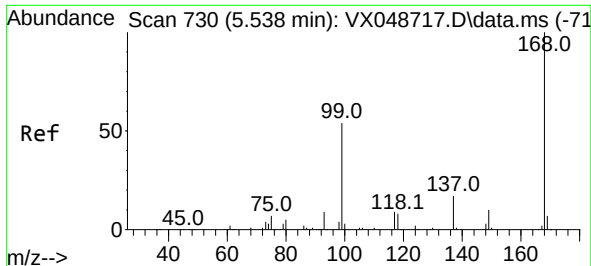
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Dec 05 03:27:34 2025
Response via : Initial Calibration

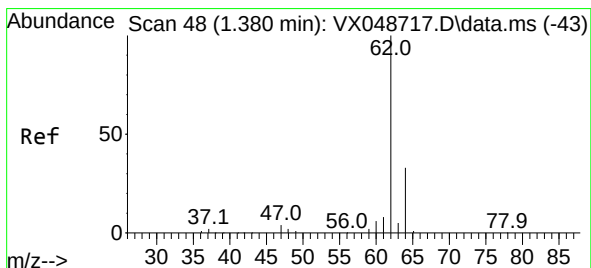
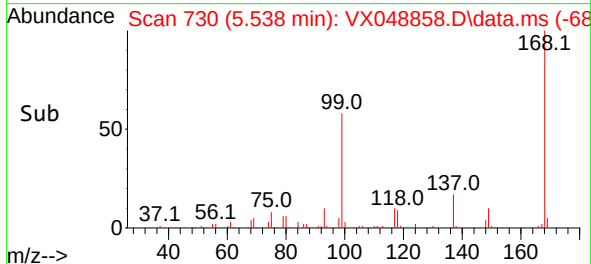
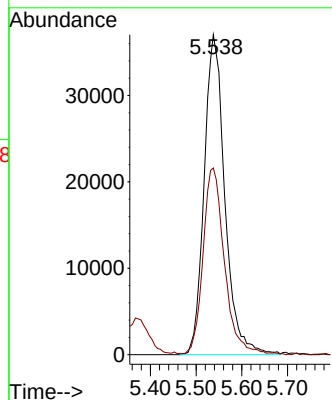
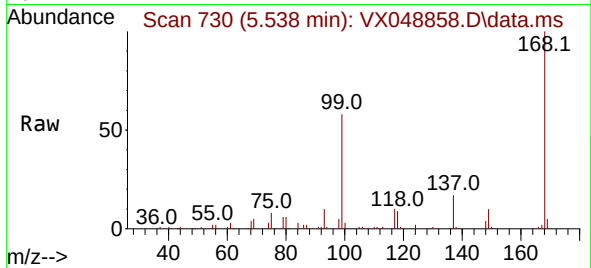




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

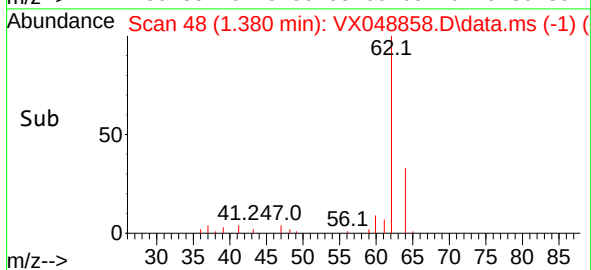
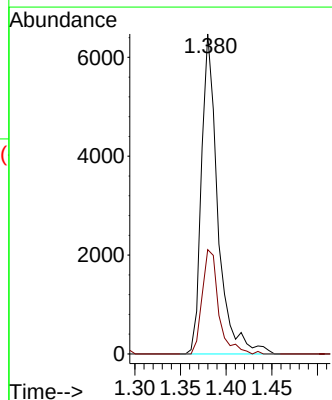
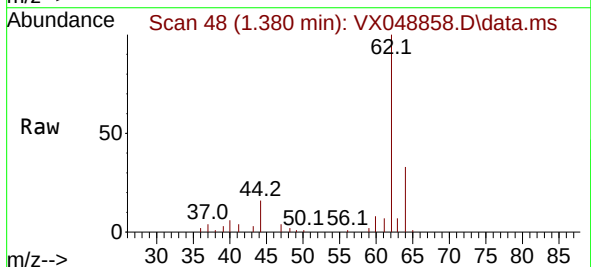
Instrument :
MSVOA_X
ClientSampleId :
MW-06-7-121125

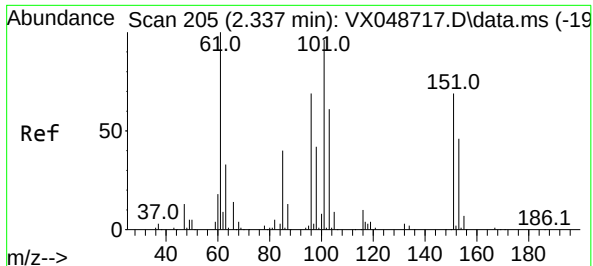
Tgt Ion:168 Resp: 116315
Ion Ratio Lower Upper
168 100
99 58.1 44.2 66.4



#4
Vinyl Chloride
Concen: 5.054 ug/l
RT: 1.380 min Scan# 48
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion: 62 Resp: 8050
Ion Ratio Lower Upper
62 100
64 32.6 26.0 39.0

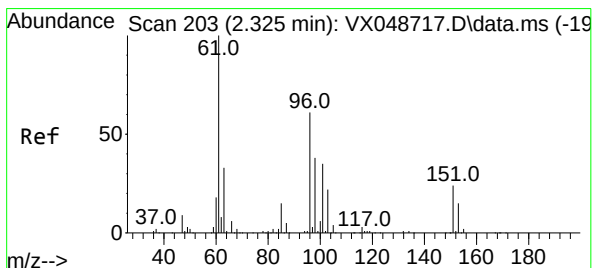
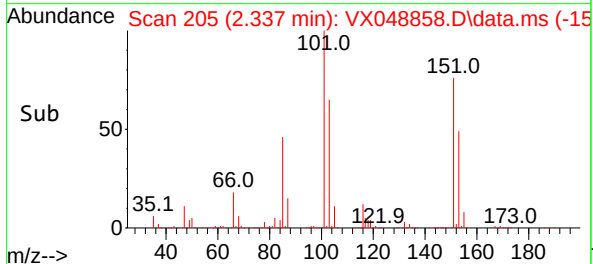
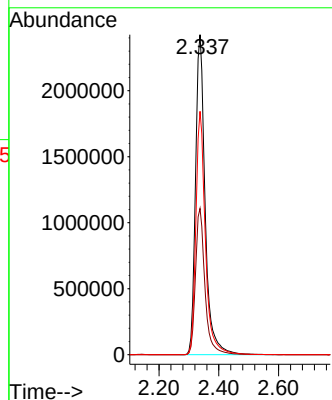
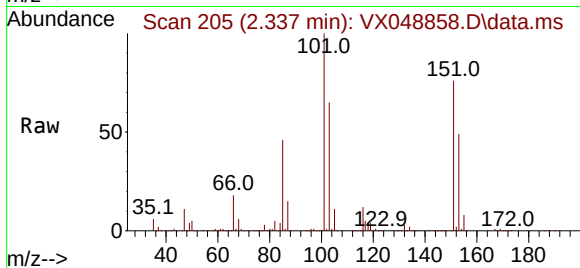




#9
 1,1,2-Trichlorotrifluoroethane
 Concen: 4086.795 ug/l
 RT: 2.337 min Scan# 205
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

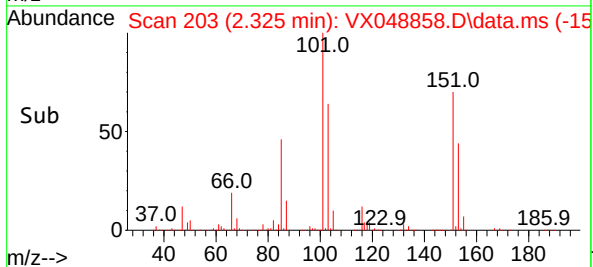
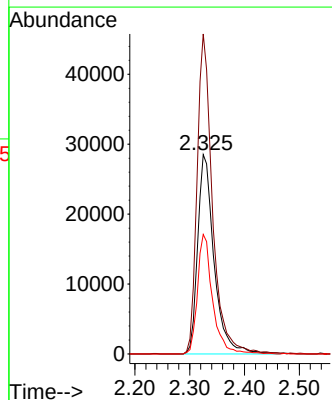
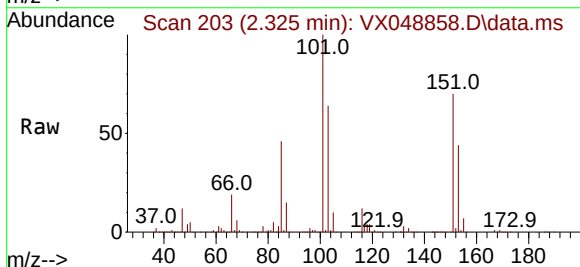
Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-7-121125

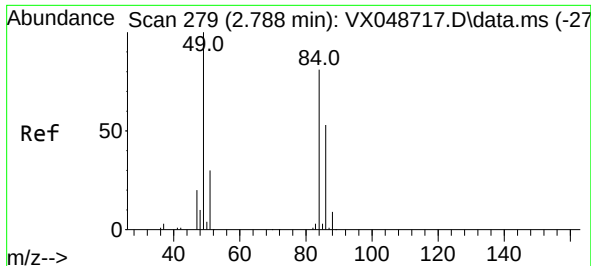
Tgt Ion:101 Resp: 5408252
 Ion Ratio Lower Upper
 101 100
 85 45.2 34.2 51.2
 151 75.6 60.2 90.4



#12
 1,1-Dichloroethene
 Concen: 44.105 ug/l
 RT: 2.325 min Scan# 203
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Tgt Ion: 96 Resp: 59571
 Ion Ratio Lower Upper
 96 100
 61 160.5 130.7 196.1
 98 60.0 49.8 74.8

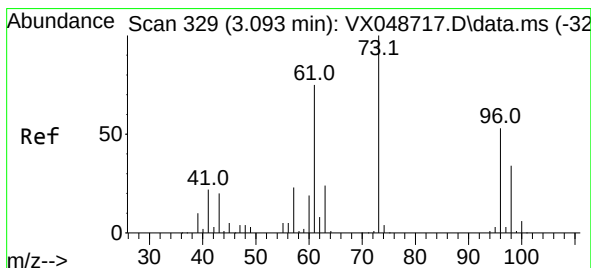
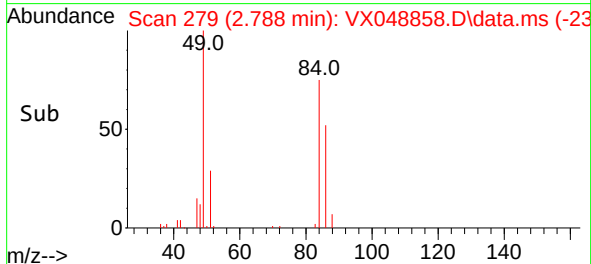
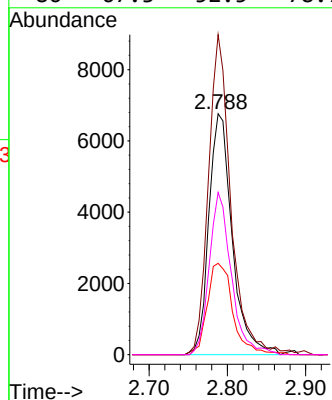
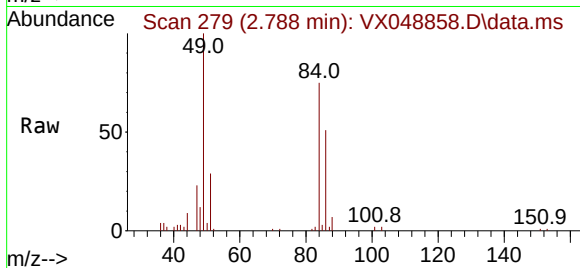




#20
Methylene Chloride
Concen: 9.381 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

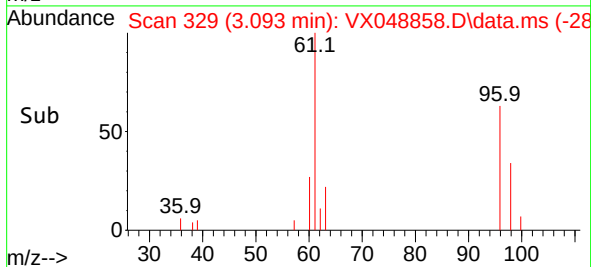
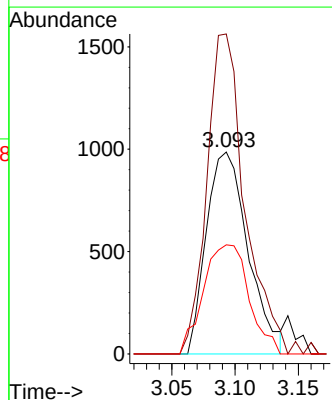
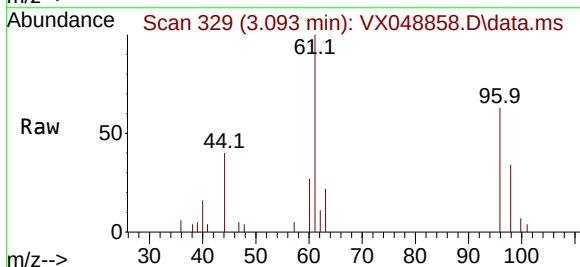
Instrument :
MSVOA_X
ClientSampleId :
MW-06-7-121125

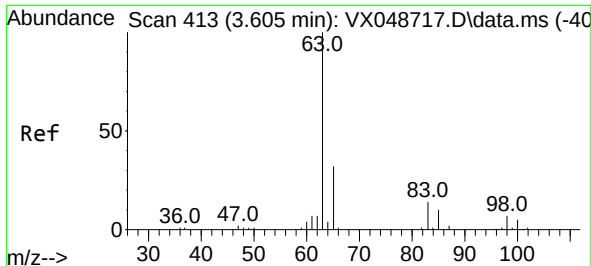
Tgt Ion:	84	Resp:	14014
Ion	Ratio	Lower	Upper
84	100		
49	132.8	98.7	148.1
51	37.9	29.4	44.2
86	67.3	52.5	78.7



#21
trans-1,2-Dichloroethene
Concen: 1.639 ug/l
RT: 3.093 min Scan# 329
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion:	96	Resp:	2260
Ion	Ratio	Lower	Upper
96	100		
61	158.5	112.8	169.2
98	54.1	51.0	76.4





#24

1,1-Dichloroethane

Concen: 3.079 ug/l

RT: 3.605 min Scan# 413

Delta R.T. 0.000 min

Lab File: VX048858.D

Acq: 12 Dec 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

MW-06-7-121125

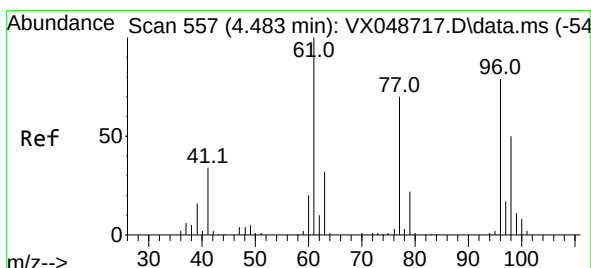
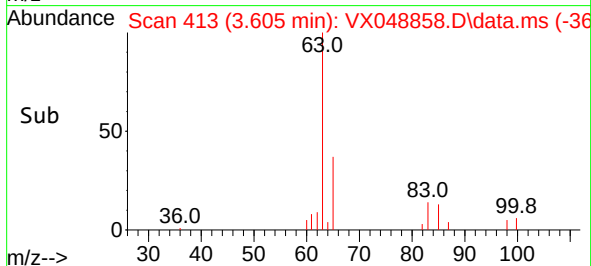
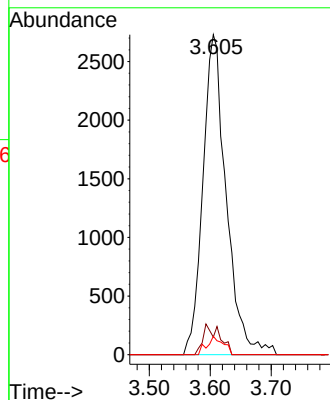
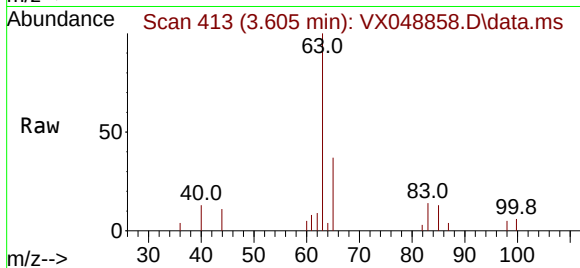
Tgt Ion: 63 Resp: 7277

Ion Ratio Lower Upper

63 100

98 5.5 3.5 10.6

100 5.8 2.5 7.4



#27

cis-1,2-Dichloroethene

Concen: 332.725 ug/l

RT: 4.477 min Scan# 556

Delta R.T. -0.006 min

Lab File: VX048858.D

Acq: 12 Dec 2025 16:25

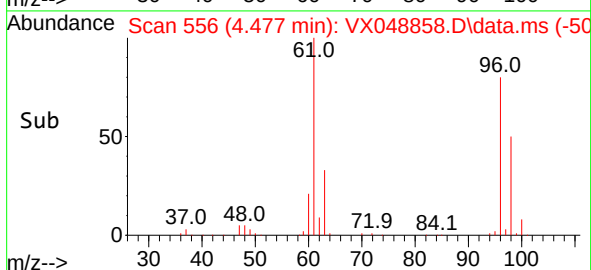
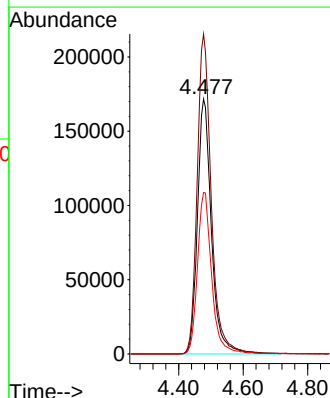
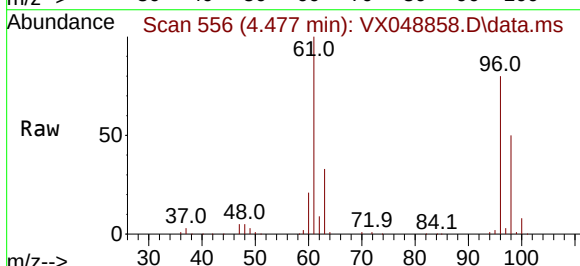
Tgt Ion: 96 Resp: 517575

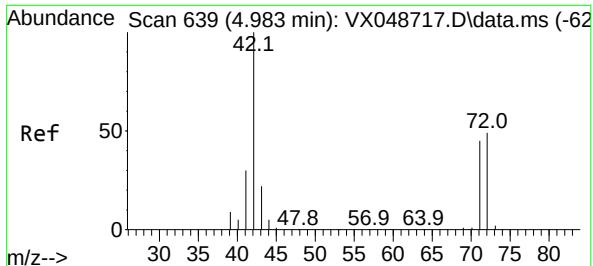
Ion Ratio Lower Upper

96 100

61 126.1 0.0 271.0

98 64.1 0.0 130.2





#29

Tetrahydrofuran

Concen: 6.442 ug/l

RT: 5.001 min Scan# 642

Delta R.T. 0.018 min

Lab File: VX048858.D

Acq: 12 Dec 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

MW-06-7-121125

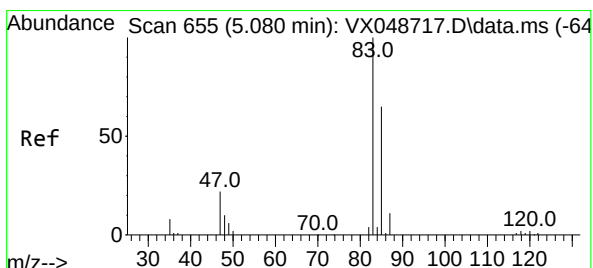
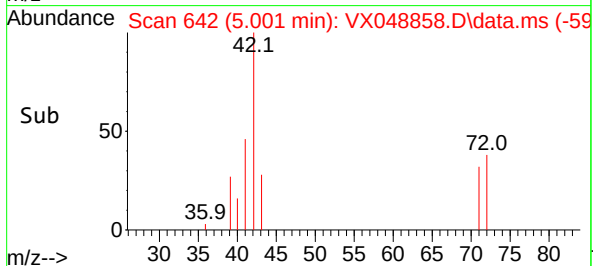
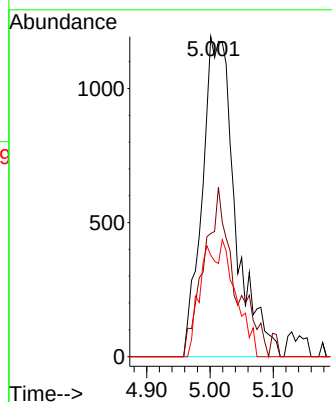
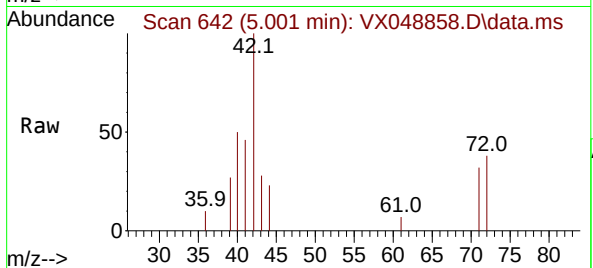
Tgt Ion: 42 Resp: 4339

Ion Ratio Lower Upper

42 100

72 40.3 39.4 59.2

71 19.7 35.8 53.6#



#30

Chloroform

Concen: 3.869 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX048858.D

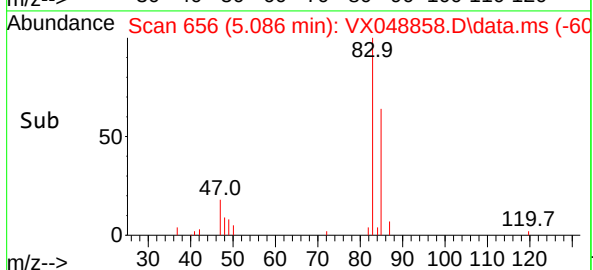
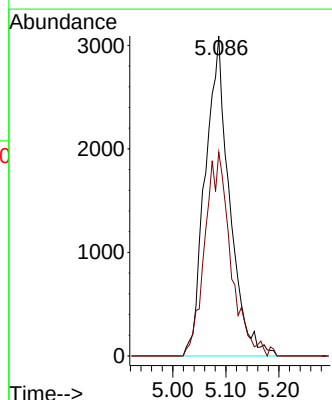
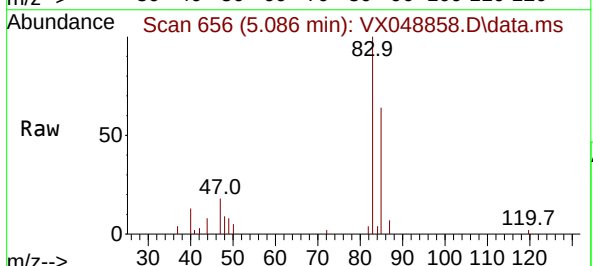
Acq: 12 Dec 2025 16:25

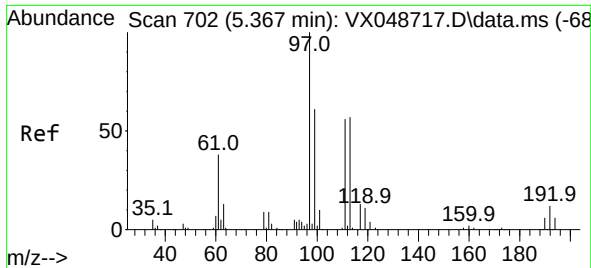
Tgt Ion: 83 Resp: 9798

Ion Ratio Lower Upper

83 100

85 63.8 52.1 78.1

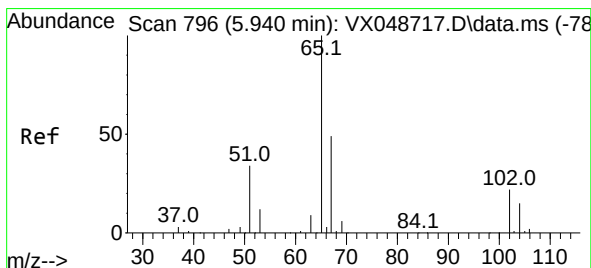
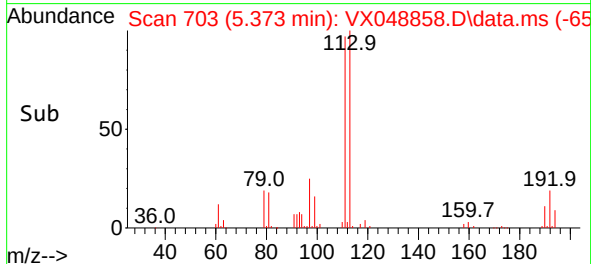
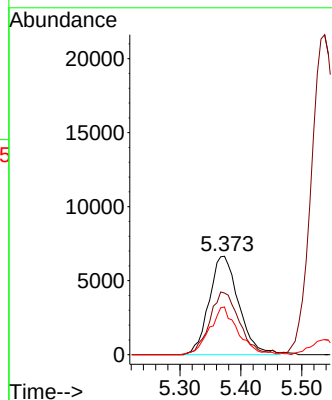
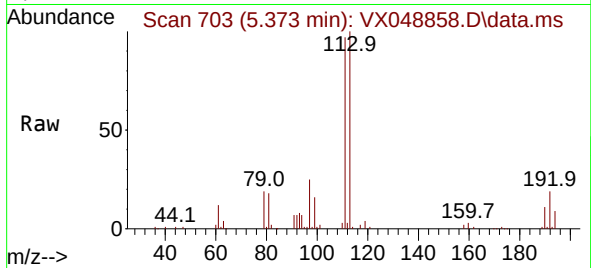




#32
 1,1,1-Trichloroethane
 Concen: 9.905 ug/l
 RT: 5.373 min Scan# 702
 Delta R.T. 0.006 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

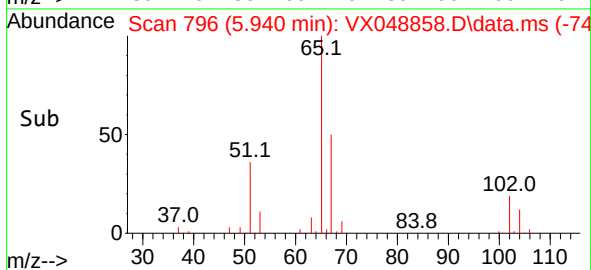
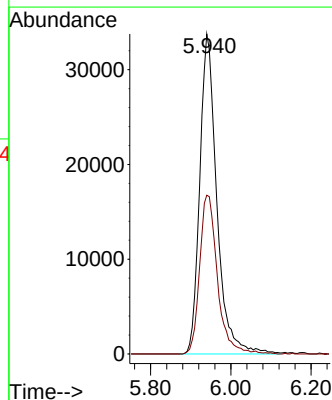
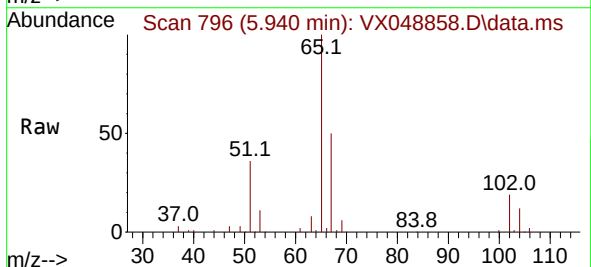
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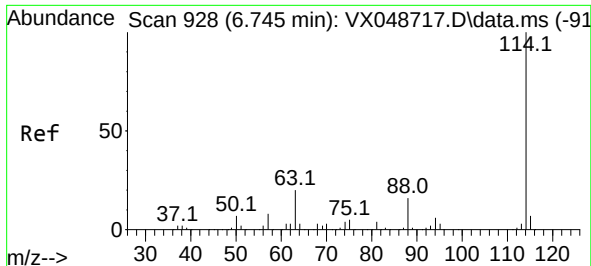
Tgt Ion: 97 Resp: 22473
 Ion Ratio Lower Upper
 97 100
 99 63.3 50.5 75.7
 61 46.4 30.6 45.8#



#33
 1,2-Dichloroethane-d4
 Concen: 63.942 ug/l
 RT: 5.940 min Scan# 796
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Tgt Ion: 65 Resp: 99824
 Ion Ratio Lower Upper
 65 100
 67 51.8 0.0 107.4

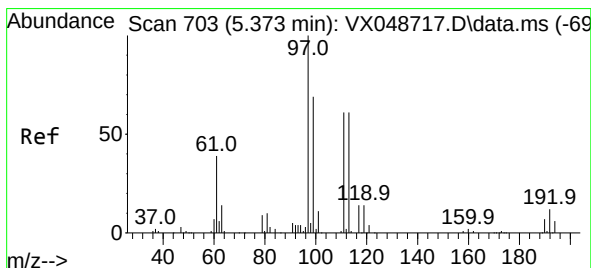
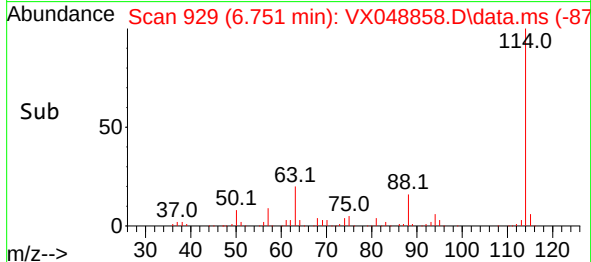
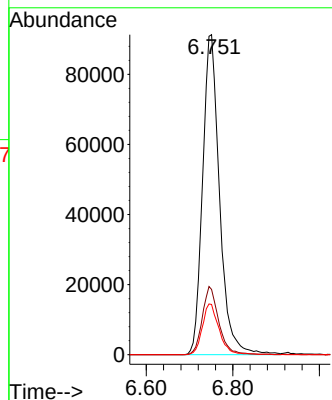
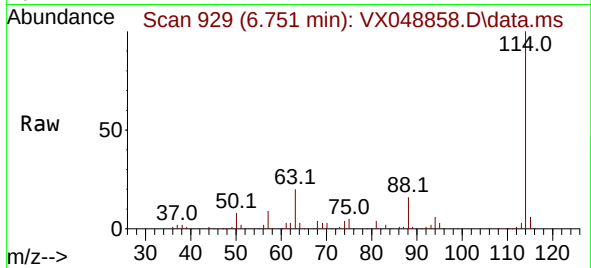




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

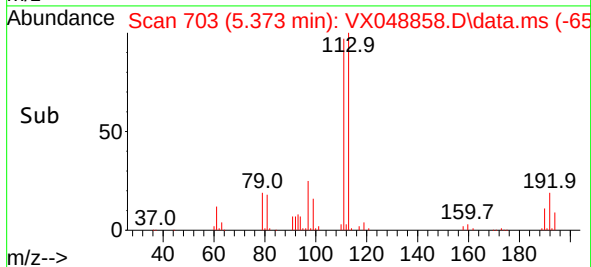
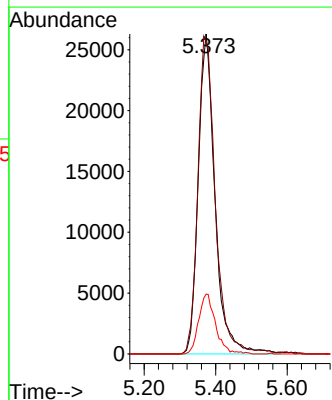
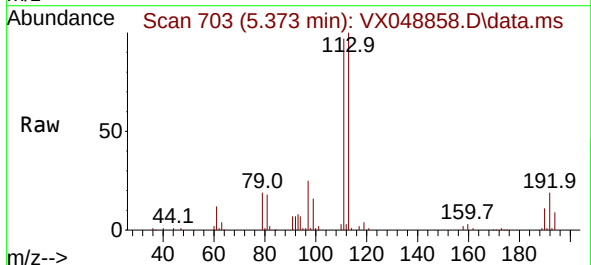
Instrument :
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MW-06-7-121125

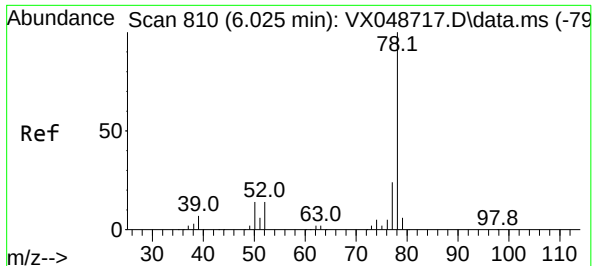
Tgt Ion:114 Resp: 248523
Ion Ratio Lower Upper
114 100
63 20.4 0.0 39.0
88 15.7 0.0 31.8



#35
Dibromofluoromethane
Concen: 50.070 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion:113 Resp: 85678
Ion Ratio Lower Upper
113 100
111 102.4 79.5 119.3
192 18.8 16.1 24.1

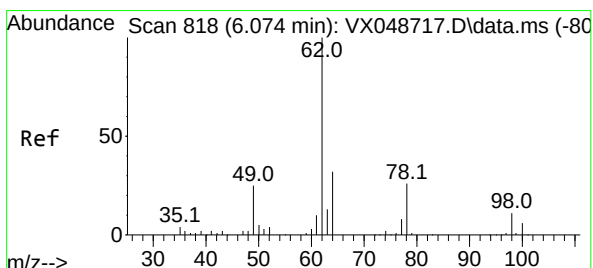
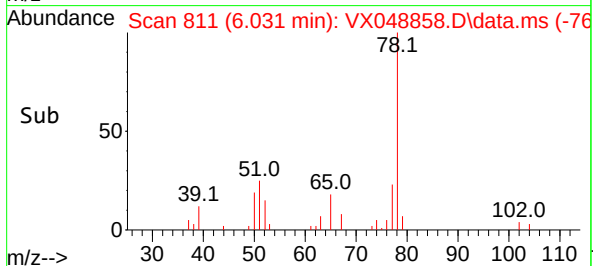
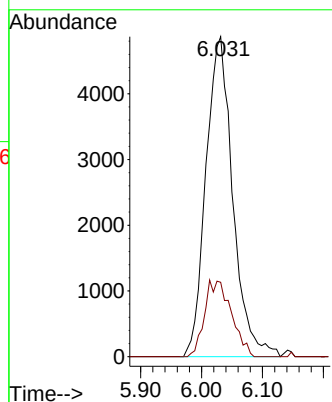
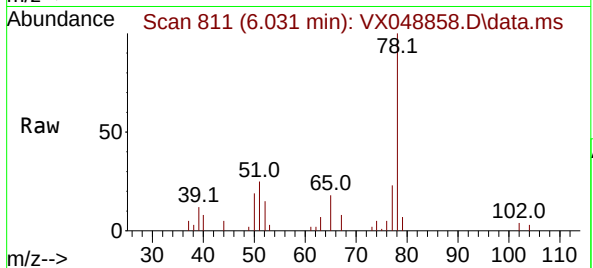




#40
Benzene
Concen: 2.146 ug/l
RT: 6.031 min Scan# 810
Delta R.T. 0.006 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

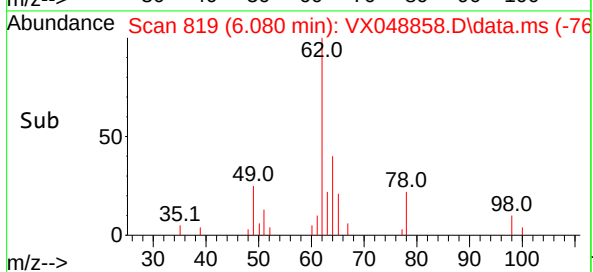
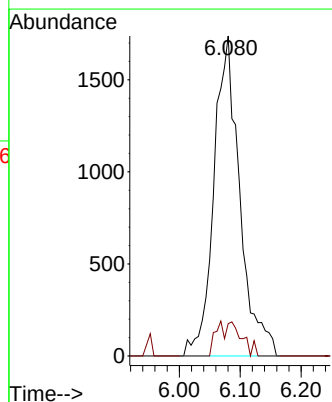
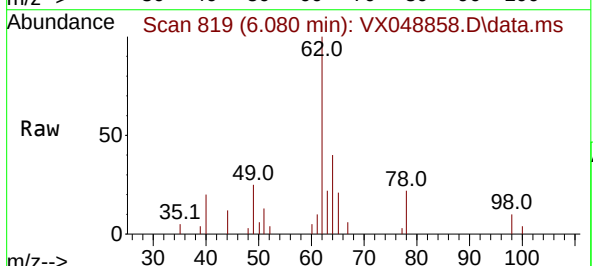
Instrument :
MSVOA_X
ClientSampleId :
MW-06-7-121125

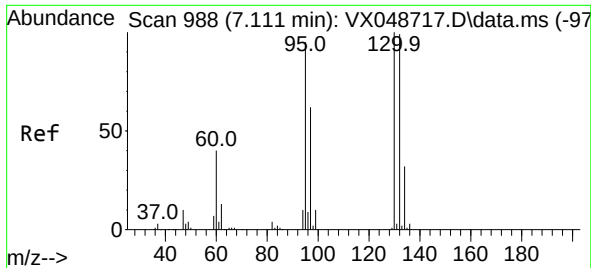
Tgt Ion: 78 Resp: 14912
Ion Ratio Lower Upper
78 100
77 23.2 18.8 28.2



#42
1,2-Dichloroethane
Concen: 2.090 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion: 62 Resp: 5140
Ion Ratio Lower Upper
62 100
98 6.3 0.0 20.2

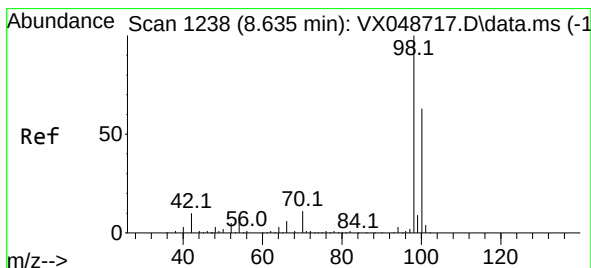
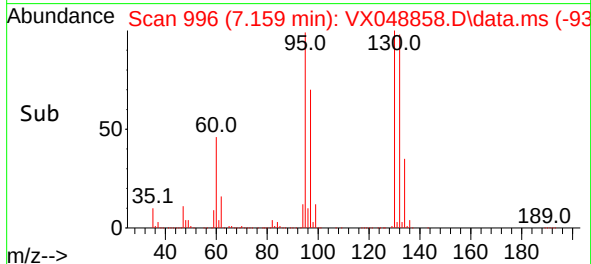
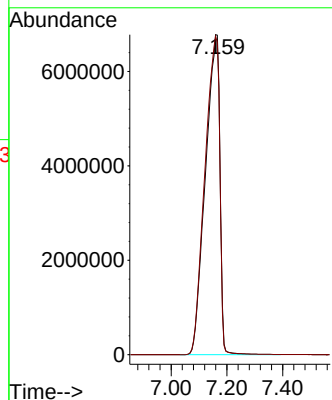
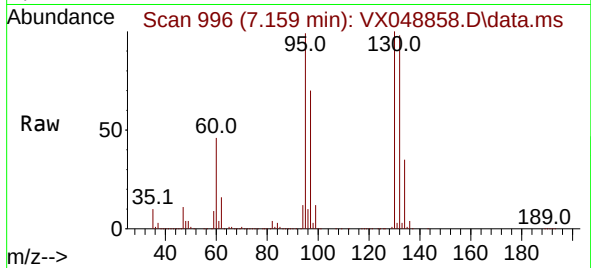




#44
Trichloroethene
Concen: 13459.330 ug/l
RT: 7.159 min Scan# 996
Delta R.T. 0.049 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

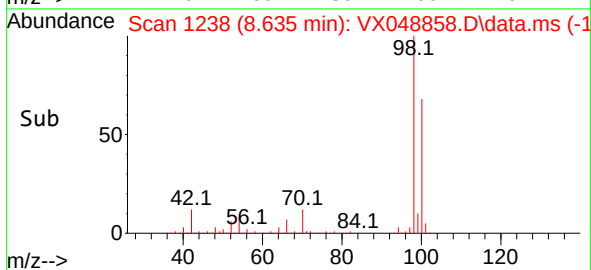
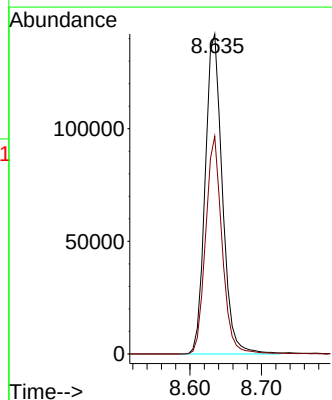
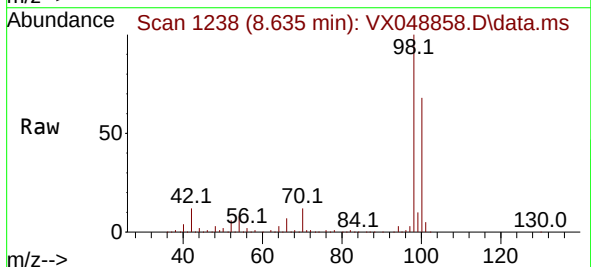
Instrument :
MSVOA_X
ClientSampleId :
MW-06-7-121125

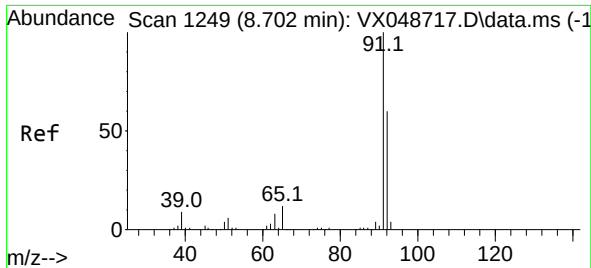
Tgt Ion:130 Resp:24399897
Ion Ratio Lower Upper
130 100
95 99.5 0.0 189.6



#50
Toluene-d8
Concen: 39.503 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion: 98 Resp: 236949
Ion Ratio Lower Upper
98 100
100 65.5 53.4 80.0





#52

Toluene

Concen: 0.443 ug/l

RT: 8.708 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX048858.D

Acq: 12 Dec 2025 16:25

Instrument :

MSVOA_X

ClientSampleId :

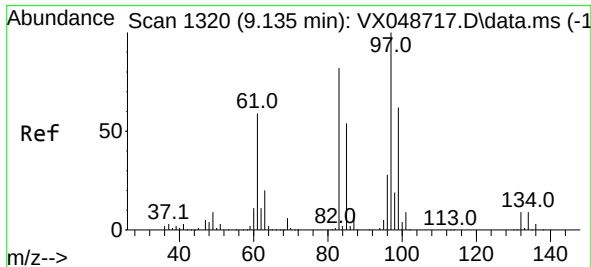
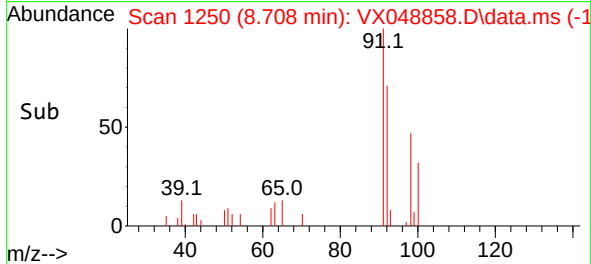
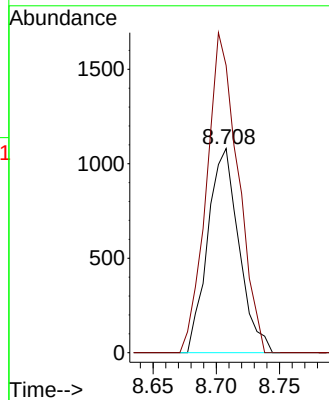
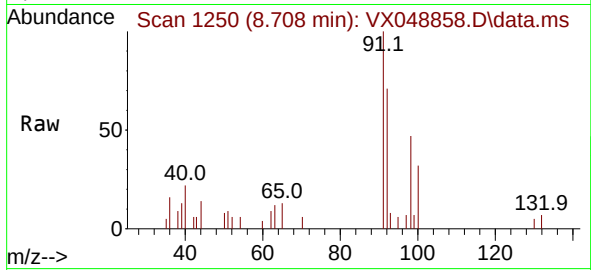
MW-06-7-121125

Tgt Ion: 92 Resp: 1857

Ion Ratio Lower Upper

92 100

91 158.4 136.3 204.5



#55

1,1,2-Trichloroethane

Concen: 5.108 ug/l

RT: 9.141 min Scan# 1321

Delta R.T. 0.006 min

Lab File: VX048858.D

Acq: 12 Dec 2025 16:25

Tgt Ion: 97 Resp: 8611

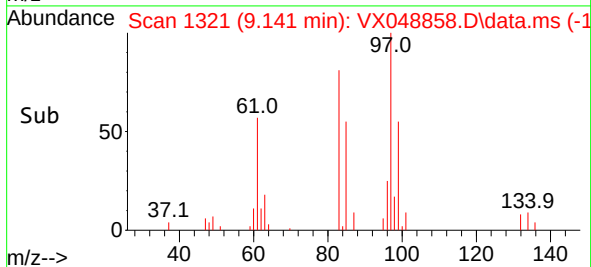
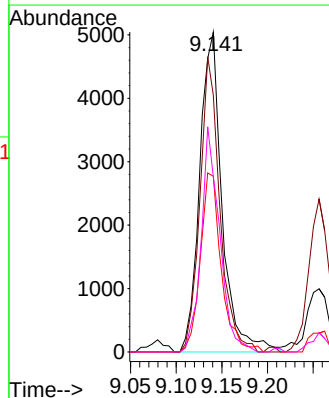
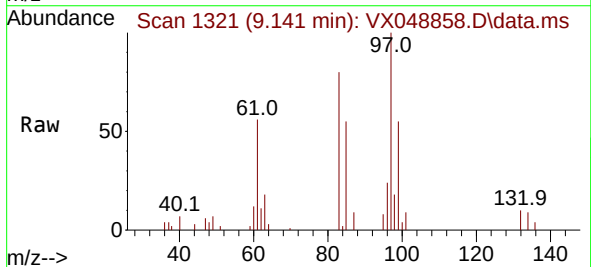
Ion Ratio Lower Upper

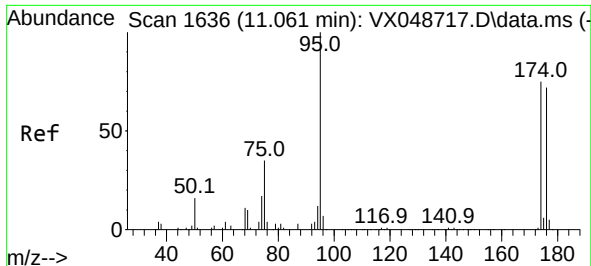
97 100

83 80.2 66.0 99.0

85 54.9 43.2 64.8

99 54.8 50.0 75.0

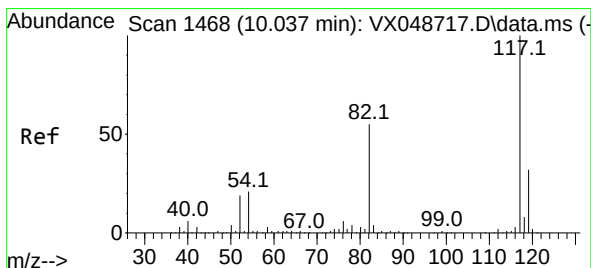
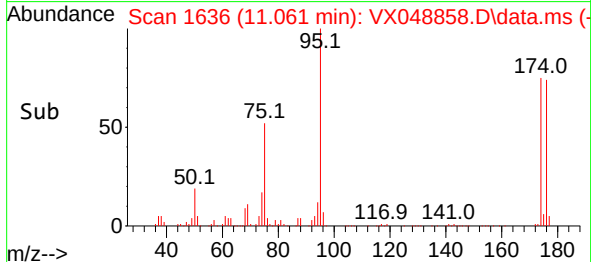
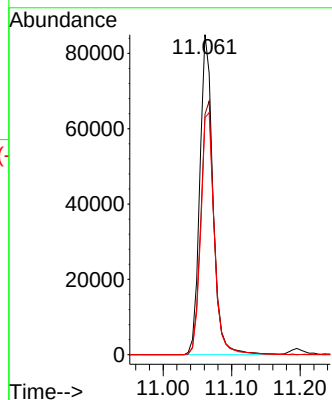
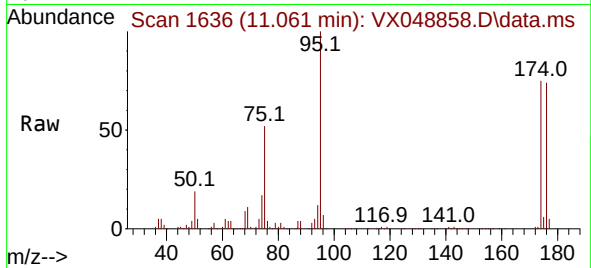




#62
4-Bromofluorobenzene
Concen: 54.749 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

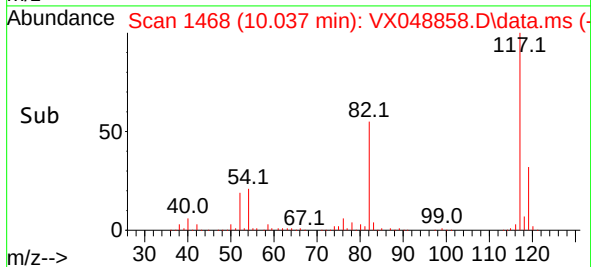
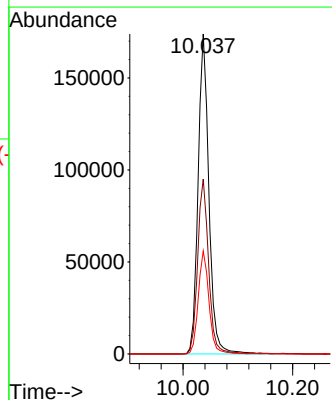
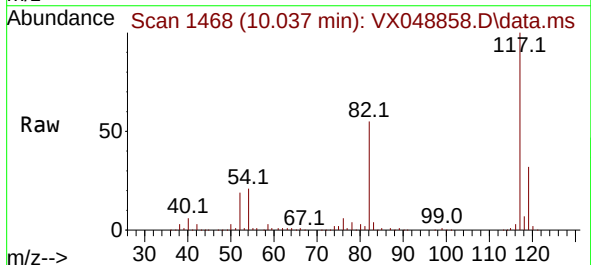
Instrument :
MSVOA_X
ClientSampleId :
MW-06-7-121125

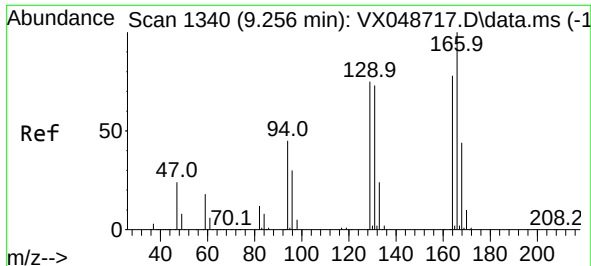
Tgt Ion: 95 Resp: 113241
Ion Ratio Lower Upper
95 100
174 81.7 0.0 157.8
176 78.0 0.0 154.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048858.D
Acq: 12 Dec 2025 16:25

Tgt Ion: 117 Resp: 239359
Ion Ratio Lower Upper
117 100
82 54.6 44.1 66.1
119 32.2 25.2 37.8



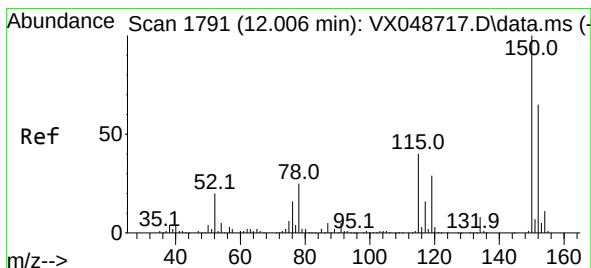
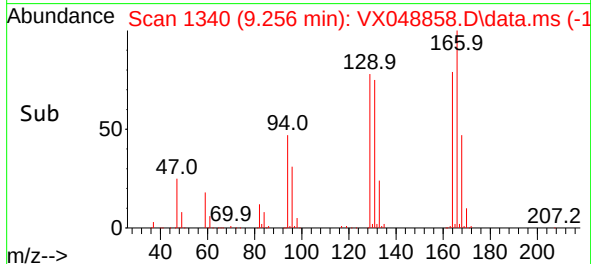
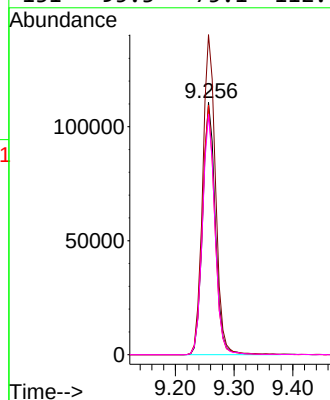
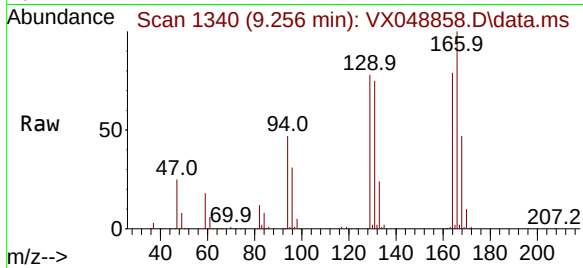


#64
 Tetrachloroethene
 Concen: 94.711 ug/l
 RT: 9.256 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-7-121125

Tgt Ion:164 Resp: 165244

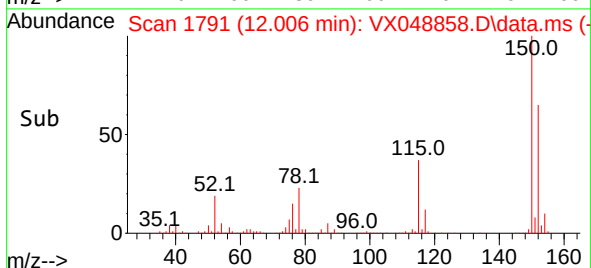
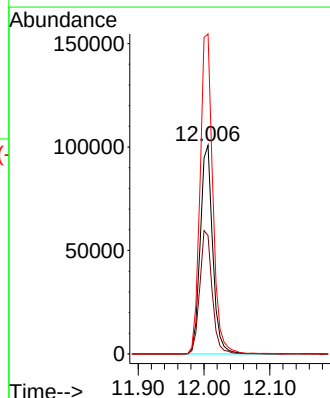
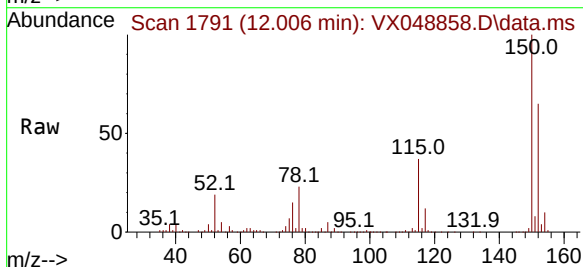
Ion	Ratio	Lower	Upper
164	100		
166	126.9	103.1	154.7
129	99.0	76.9	115.3
131	95.3	75.1	112.7

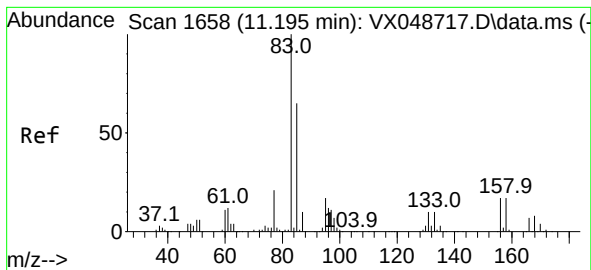


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1791
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Tgt Ion:152 Resp: 132589

Ion	Ratio	Lower	Upper
152	100		
115	58.9	42.1	126.4
150	156.6	0.0	347.8

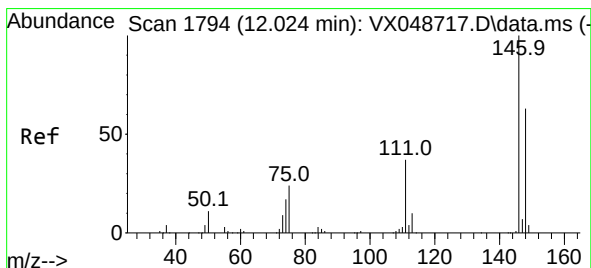
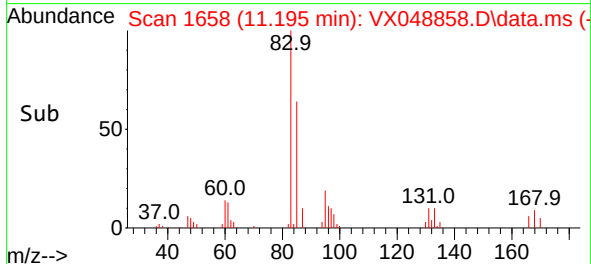
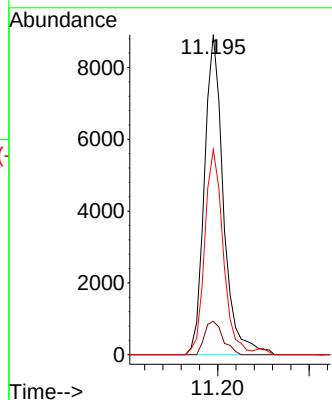
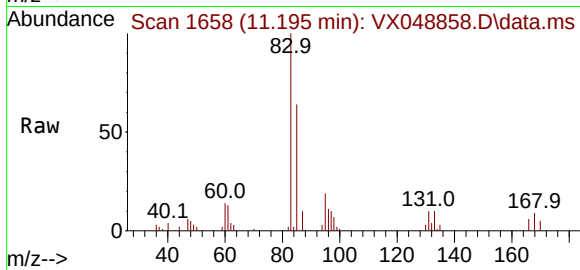




#75
 1,1,2,2-Tetrachloroethane
 Concen: 4.251 ug/l
 RT: 11.195 min Scan# 1658
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-06-7-121125

Tgt Ion: 83 Resp: 12815
 Ion Ratio Lower Upper
 83 100
 131 10.1 4.9 14.7
 85 62.4 31.9 95.7



#88
 1,4-Dichlorobenzene
 Concen: 0.872 ug/l
 RT: 12.024 min Scan# 1794
 Delta R.T. 0.000 min
 Lab File: VX048858.D
 Acq: 12 Dec 2025 16:25

Tgt Ion: 146 Resp: 3962
 Ion Ratio Lower Upper
 146 100
 111 0.0 19.6 58.7#
 148 74.9 31.6 94.7

