

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048087.D
 Acq On : 09 Oct 2025 15:22
 Operator : JC/MD
 Sample : Q3311-10
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW-5BA

Quant Time: Oct 10 01:26:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

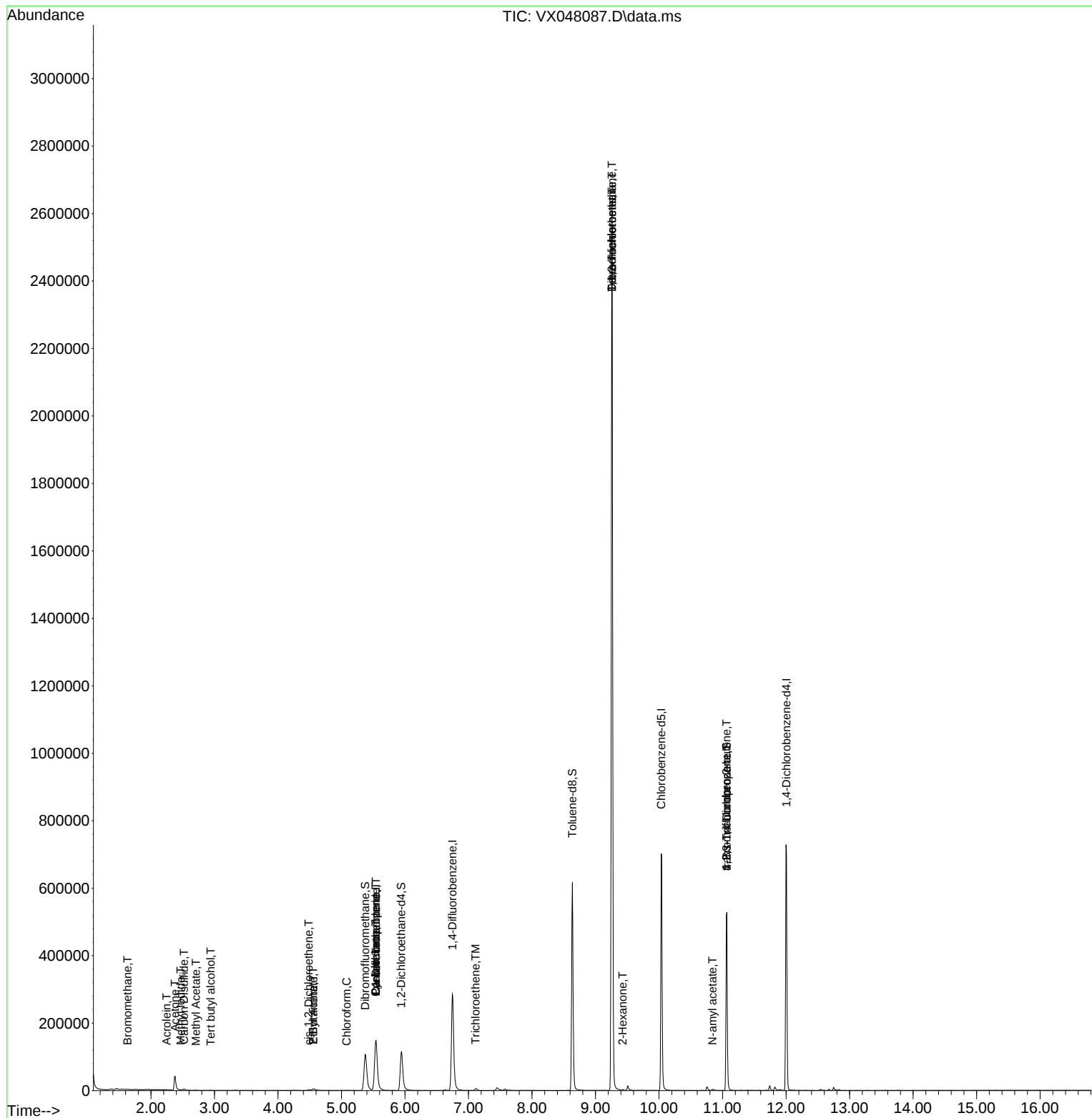
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	148485	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	308267	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	312468	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	154528	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	125754	53.207	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 106.420%	
35) Dibromofluoromethane	5.373	113	103224	49.929	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 99.860%	
50) Toluene-d8	8.635	98	365877	51.146	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 102.300%	
62) 4-Bromofluorobenzene	11.061	95	154182	56.790	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 113.580%	
Target Compounds						Qvalue
5) Bromomethane	1.630	94	266	0.212	ug/l	95
10) Methyl Iodide	2.465	142	564	0.211	ug/l #	81
11) Tert butyl alcohol	2.940	59	103	0.391	ug/l #	72
13) Acrolein	2.245	56	180	0.742	ug/l #	14
16) Acetone	2.380	43	56479	54.959	ug/l	100
17) Carbon Disulfide	2.520	76	1798	0.372	ug/l	99
18) Methyl Acetate	2.709	43	1127	0.493	ug/l #	74
25) 2-Butanone	4.556	43	10397	8.111	ug/l	97
27) cis-1,2-Dichloroethene	4.483	96	1236	0.531	ug/l	89
30) Chloroform	5.080	83	815	0.215	ug/l #	18
31) Cyclohexane	5.538	56	3338	1.069	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	12801	4.237	ug/l #	52
37) Ethyl Acetate	4.556	43	10397	3.214	ug/l #	71
38) Carbon Tetrachloride	5.544	117	15686	4.779	ug/l #	18
44) Trichloroethene	7.110	130	2451	1.105	ug/l	87
55) 1,1,2-Trichloroethane	9.256	97	4699	2.156	ug/l #	2
59) 2-Hexanone	9.427	43	1278	0.605	ug/l	98
60) Dibromochloromethane	9.256	129	498990	198.676	ug/l #	11
64) Tetrachloroethene	9.256	164	495261	243.137	ug/l	99
74) N-amyl acetate	10.841	43	1134	0.212	ug/l #	50
76) 1,2,3-Trichloropropane	11.061	75	81539	26.062	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	81539	66.461	ug/l #	8

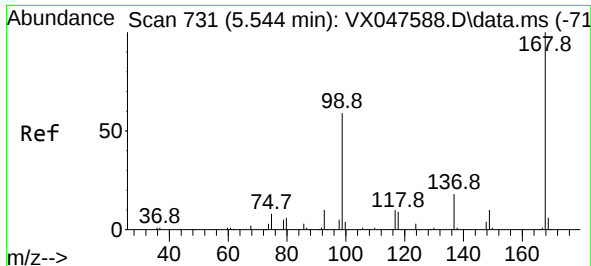
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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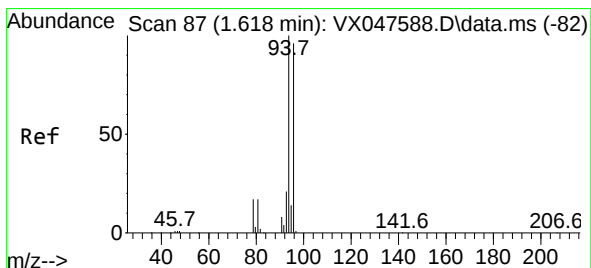
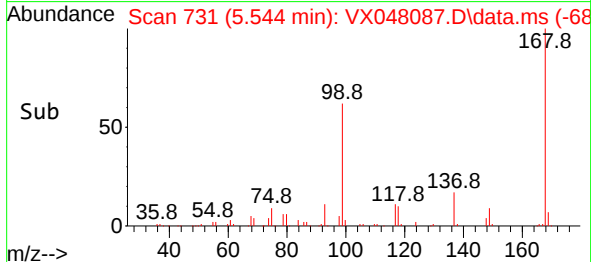
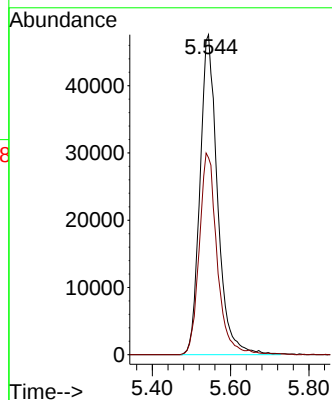
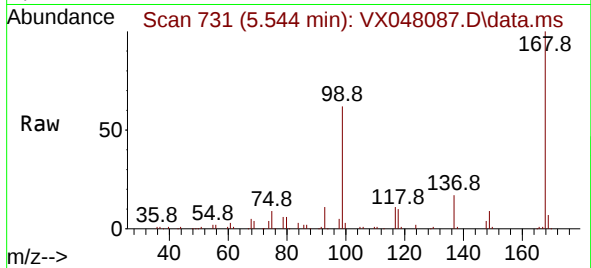




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

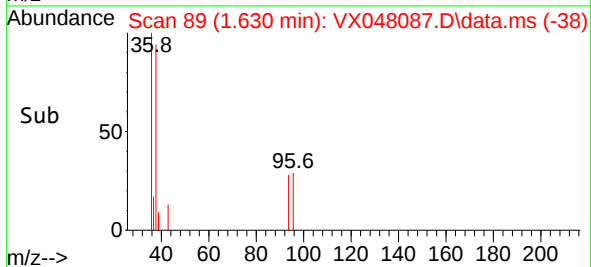
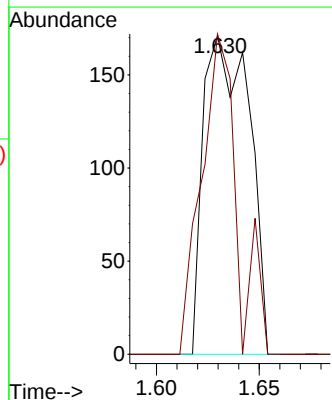
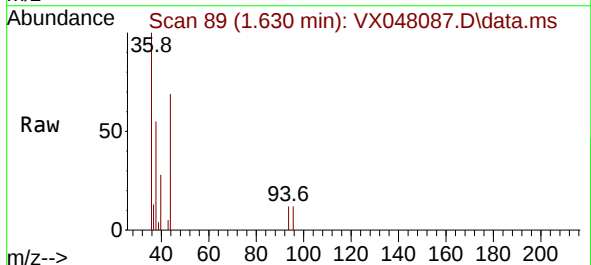
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

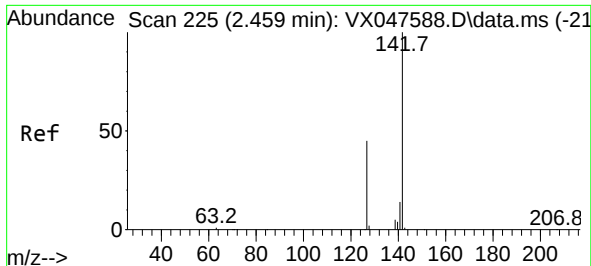
Tgt Ion:168 Resp: 148485
Ion Ratio Lower Upper
168 100
99 61.5 48.8 73.2



#5
Bromomethane
Concen: 0.212 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 94 Resp: 266
Ion Ratio Lower Upper
94 100
96 100.6 76.6 115.0





#10

Methyl Iodide

Concen: 0.211 ug/l

RT: 2.465 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX048087.D

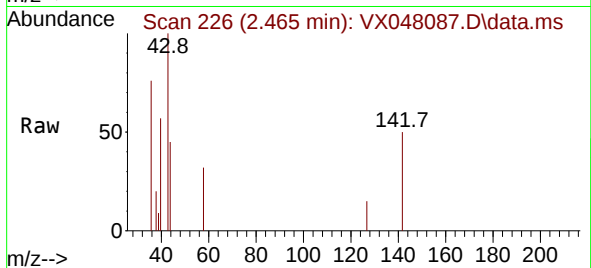
Acq: 09 Oct 2025 15:22

Instrument :

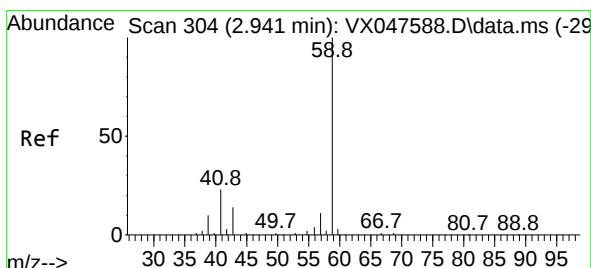
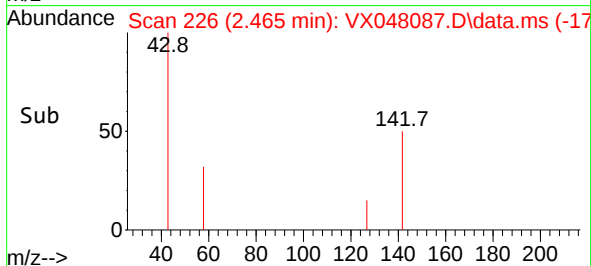
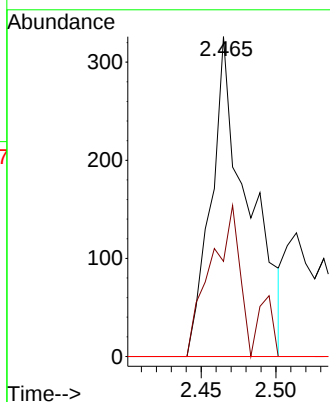
MSVOA_X

ClientSampleId :

MW-5BA



Tgt Ion:	142	Resp:	564
Ion	Ratio	Lower	Upper
142	100		
127	36.7	37.2	55.8#
141	0.0	11.4	17.0#



#11

Tert butyl alcohol

Concen: 0.391 ug/l

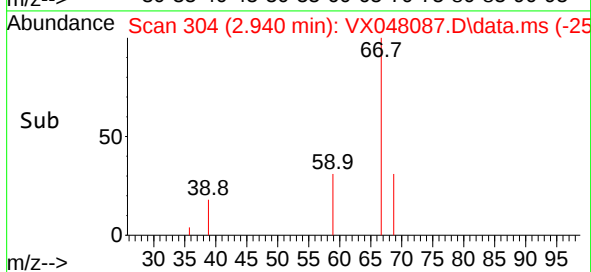
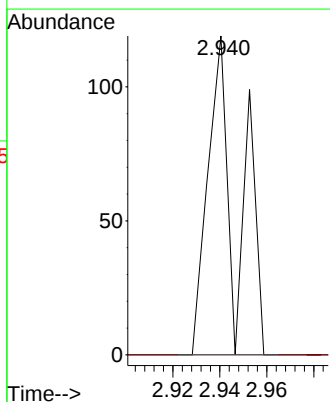
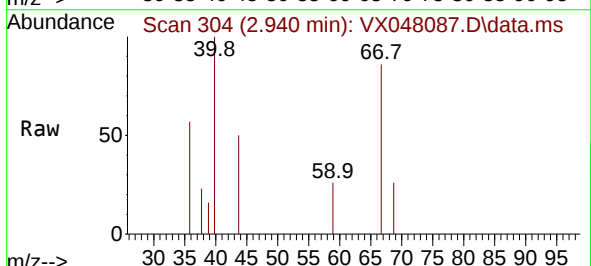
RT: 2.940 min Scan# 304

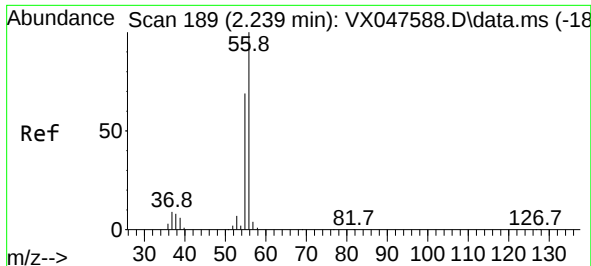
Delta R.T. -0.000 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Tgt Ion:	59	Resp:	103
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.3	12.5#





#13

Acrolein

Concen: 0.742 ug/l

RT: 2.245 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

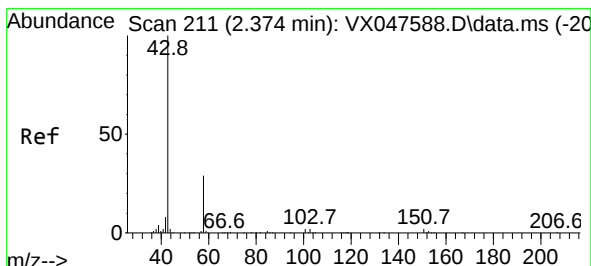
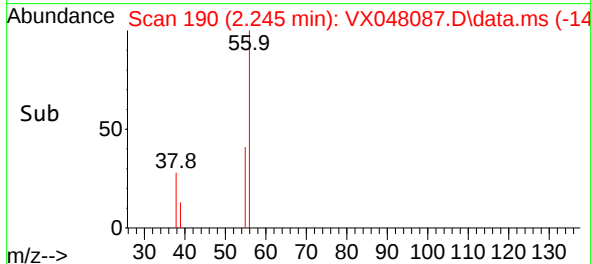
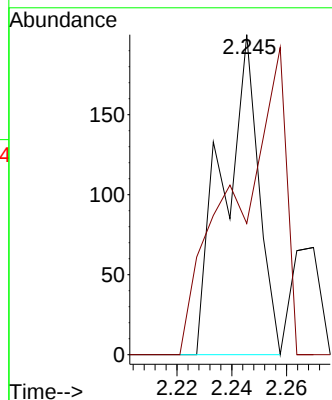
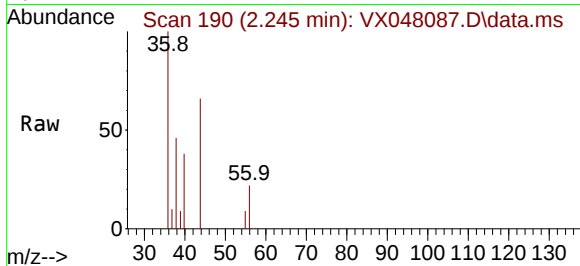
MW-5BA

Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 0.0 57.2 85.8#



#16

Acetone

Concen: 54.959 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048087.D

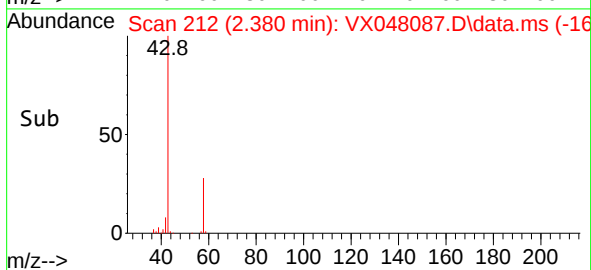
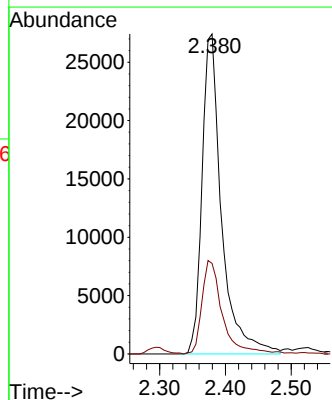
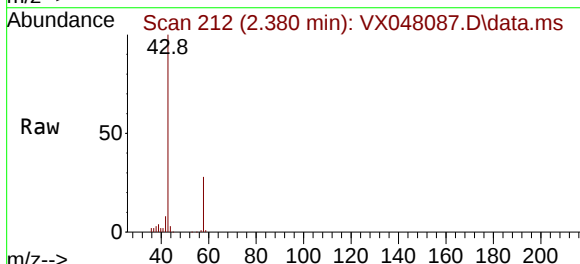
Acq: 09 Oct 2025 15:22

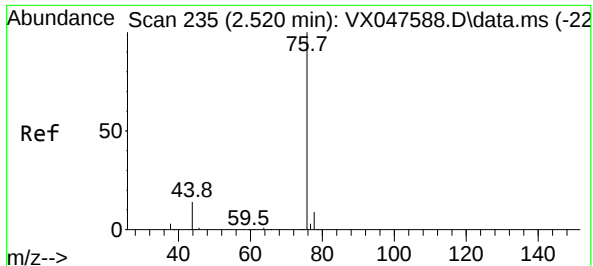
Tgt Ion: 43 Resp: 56479

Ion Ratio Lower Upper

43 100

58 29.0 23.4 35.0





#17

Carbon Disulfide

Concen: 0.372 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

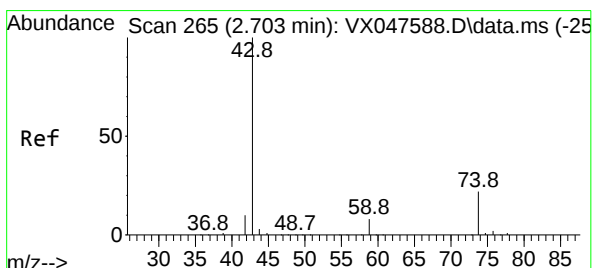
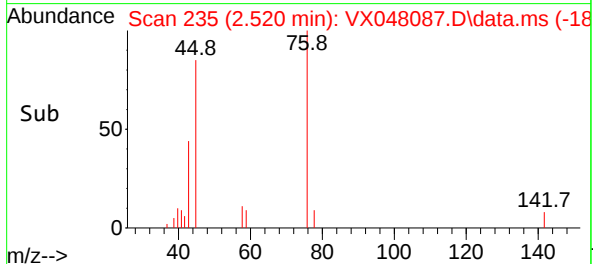
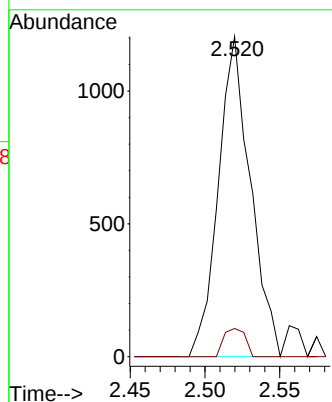
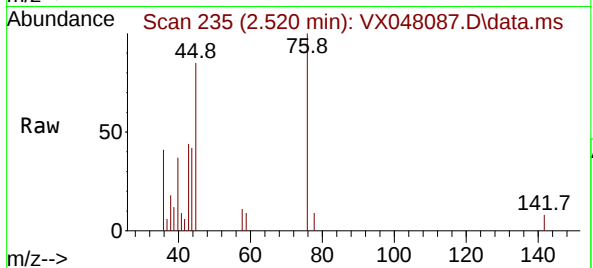
MW-5BA

Tgt Ion: 76 Resp: 1798

Ion Ratio Lower Upper

76 100

78 8.8 6.8 10.2



#18

Methyl Acetate

Concen: 0.493 ug/l

RT: 2.709 min Scan# 266

Delta R.T. 0.006 min

Lab File: VX048087.D

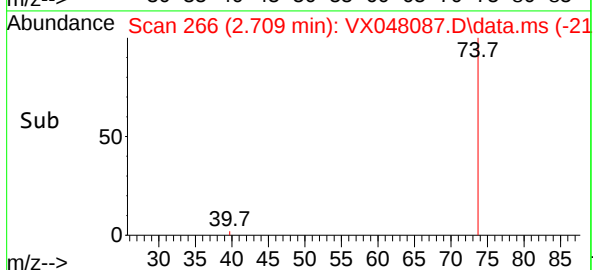
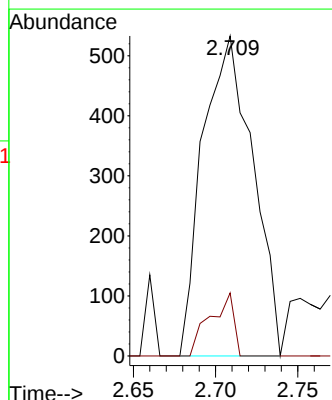
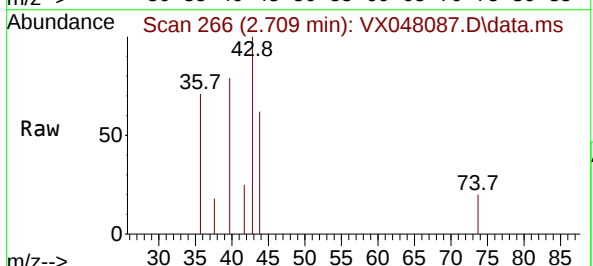
Acq: 09 Oct 2025 15:22

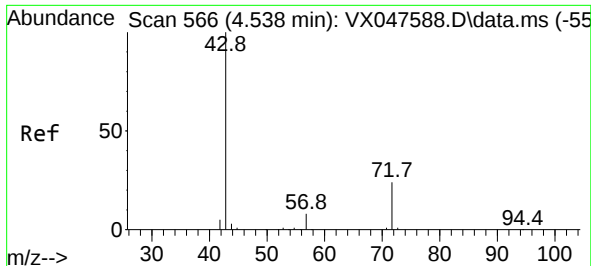
Tgt Ion: 43 Resp: 1127

Ion Ratio Lower Upper

43 100

74 9.4 17.4 26.2#

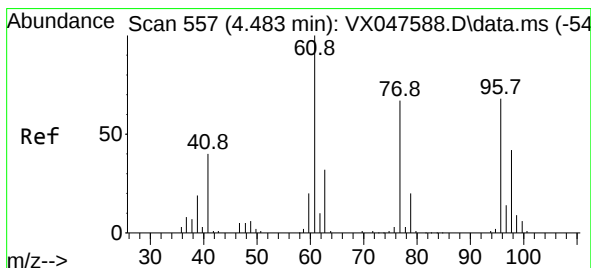
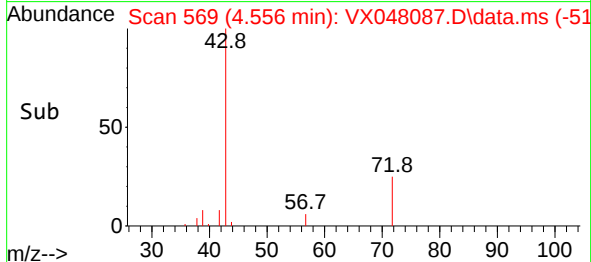
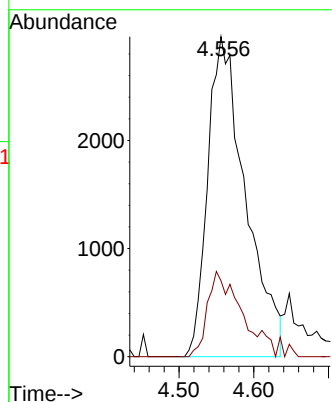
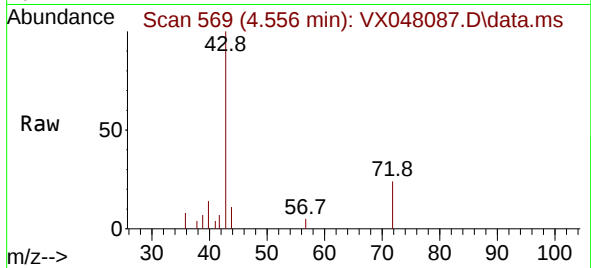




#25
2-Butanone
Concen: 8.111 ug/l
RT: 4.556 min Scan# 569
Delta R.T. 0.018 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

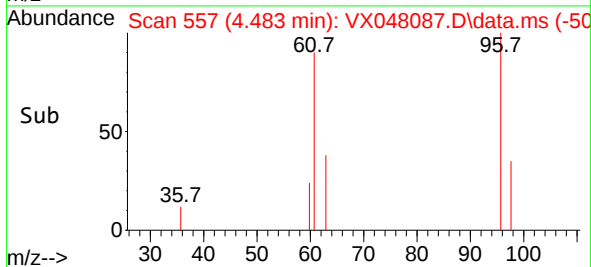
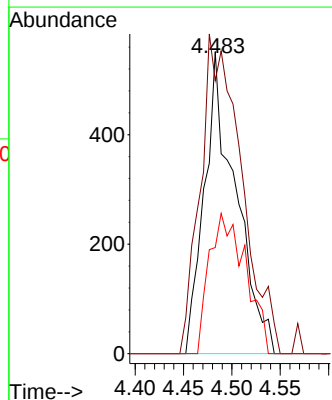
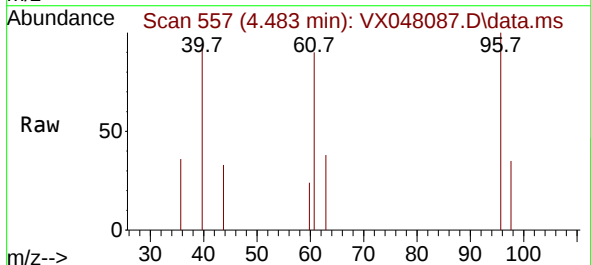
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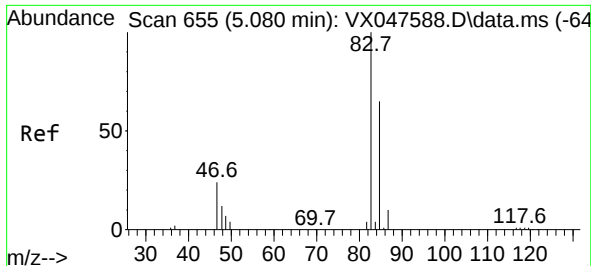
Tgt Ion: 43 Resp: 10397
Ion Ratio Lower Upper
43 100
72 23.7 20.1 30.1



#27
cis-1,2-Dichloroethene
Concen: 0.531 ug/l
RT: 4.483 min Scan# 557
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 96 Resp: 1236
Ion Ratio Lower Upper
96 100
61 138.6 0.0 303.2
98 54.0 0.0 127.8





#30

Chloroform

Concen: 0.215 ug/l

RT: 5.080 min Scan# 61

Delta R.T. -0.000 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

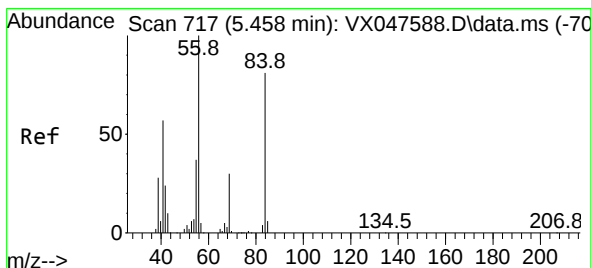
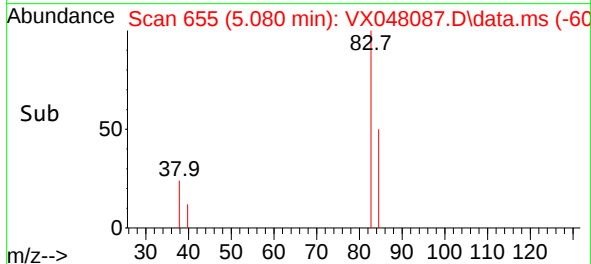
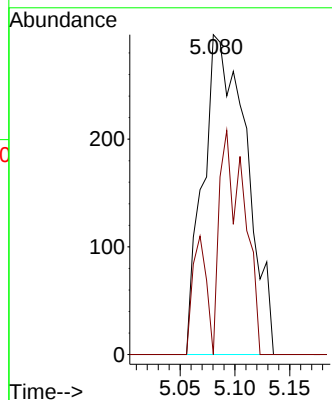
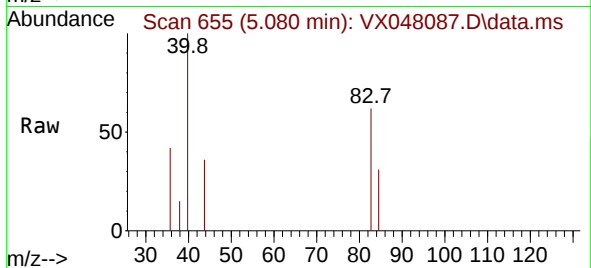
MW-5BA

Tgt Ion: 83 Resp: 815

Ion Ratio Lower Upper

83 100

85 0.0 51.8 77.6#



#31

Cyclohexane

Concen: 1.069 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

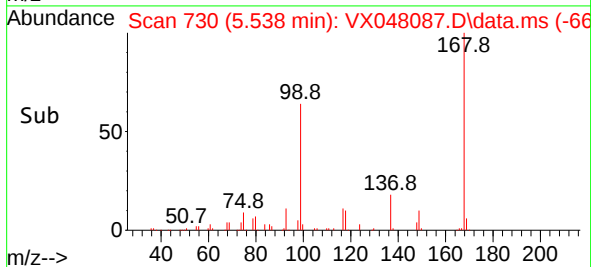
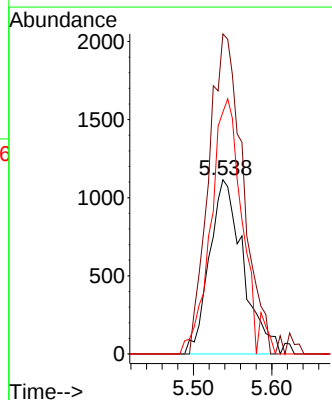
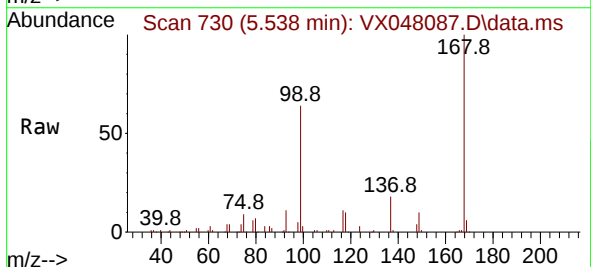
Tgt Ion: 56 Resp: 3338

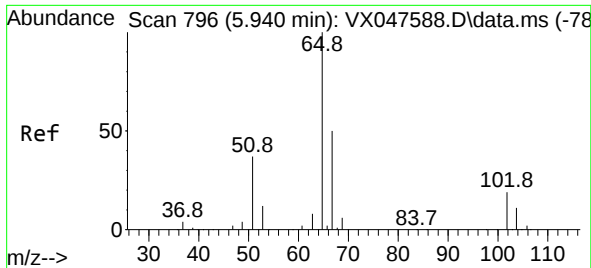
Ion Ratio Lower Upper

56 100

69 183.7 23.8 35.8#

84 138.8 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 53.207 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

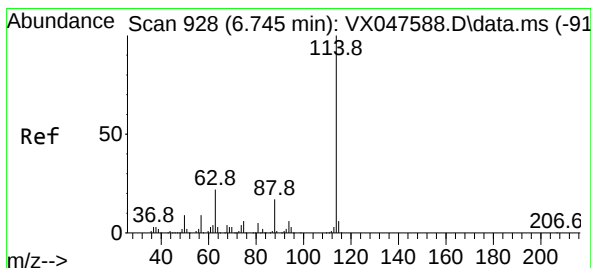
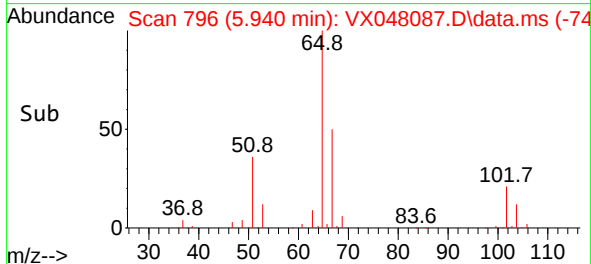
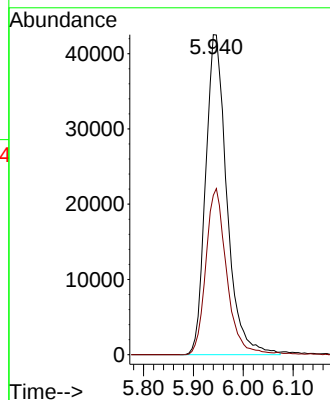
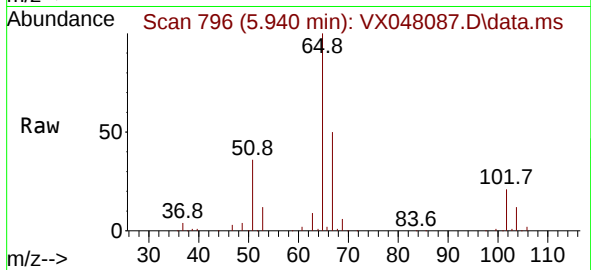
MW-5BA

Tgt Ion: 65 Resp: 125754

Ion Ratio Lower Upper

65 100

67 50.8 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

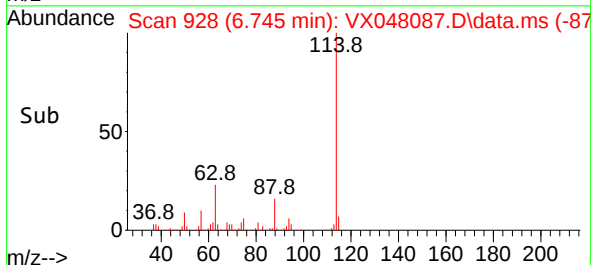
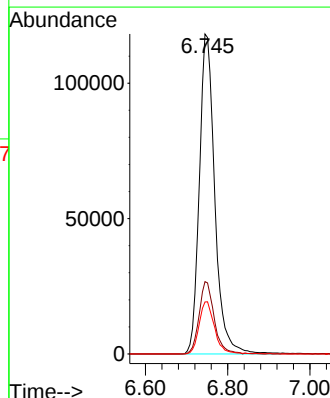
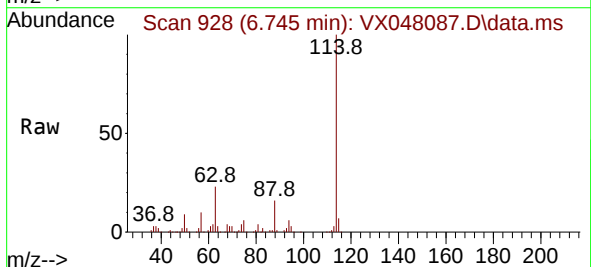
Tgt Ion: 114 Resp: 308267

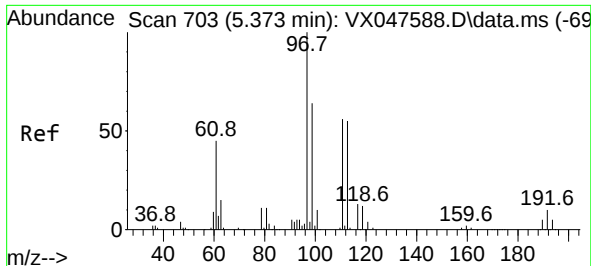
Ion Ratio Lower Upper

114 100

63 22.6 0.0 44.0

88 16.3 0.0 34.2

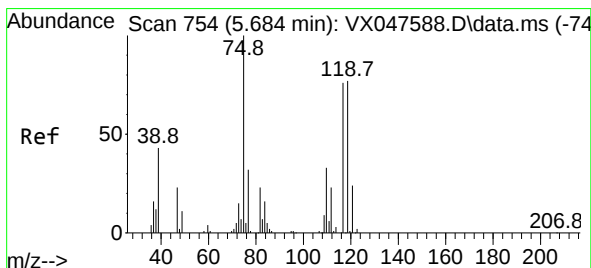
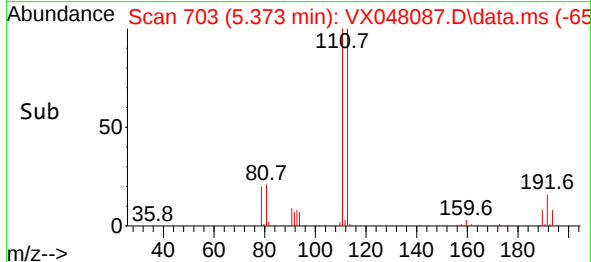
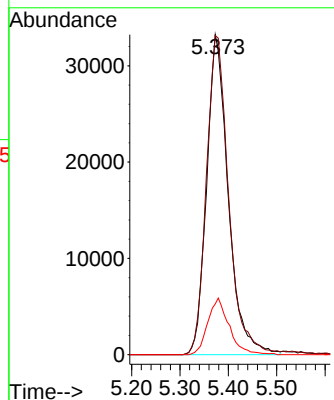
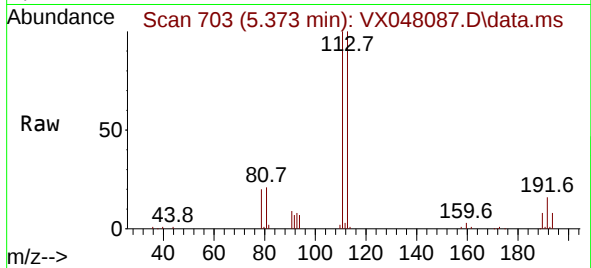




#35
Dibromofluoromethane
Concen: 49.929 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

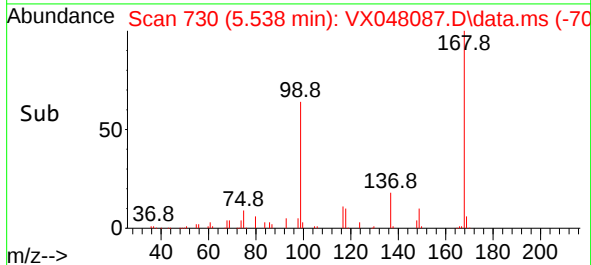
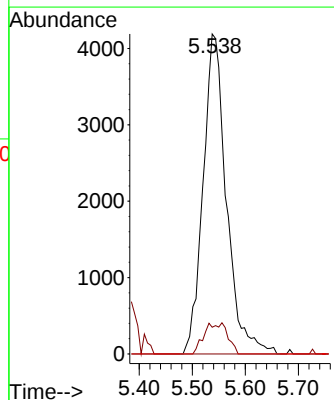
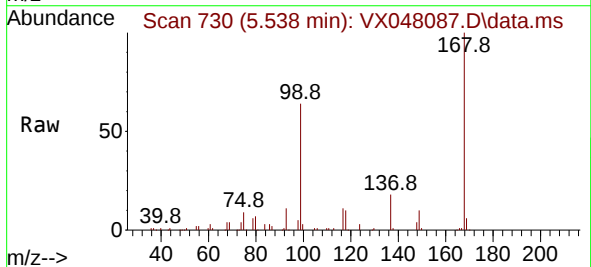
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

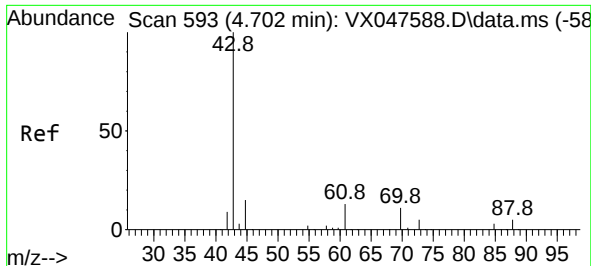
Tgt Ion:113 Resp: 103224
Ion Ratio Lower Upper
113 100
111 102.7 80.9 121.3
192 17.6 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.237 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 75 Resp: 12801
Ion Ratio Lower Upper
75 100
110 9.7 16.7 50.1#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 3.214 ug/l

RT: 4.556 min Scan# 5

Delta R.T. -0.146 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

MW-5BA

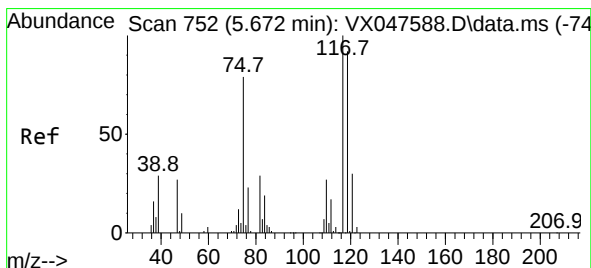
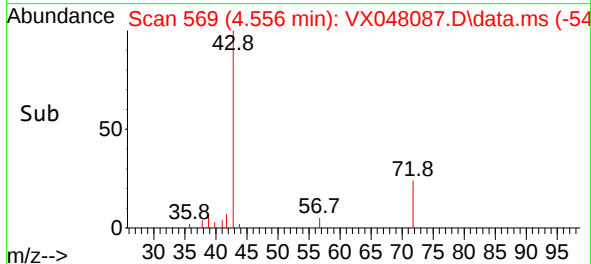
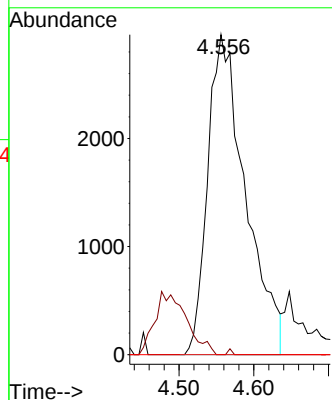
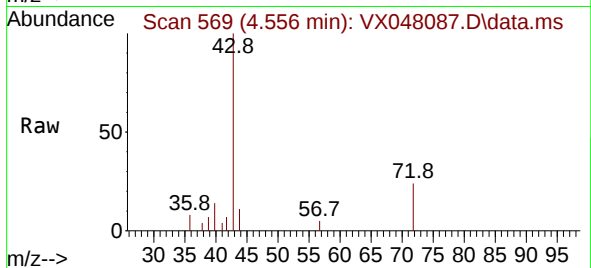
Tgt Ion: 43 Resp: 10397

Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

70 0.0 7.9 11.9#



#38

Carbon Tetrachloride

Concen: 4.779 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

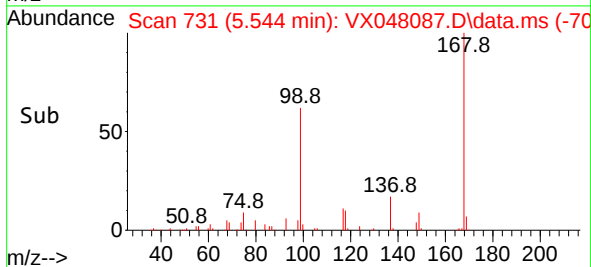
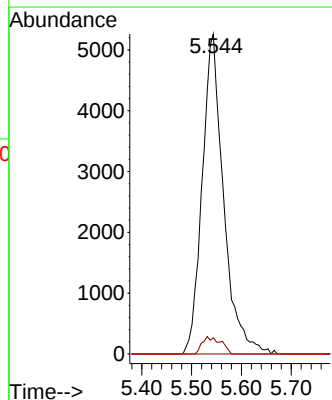
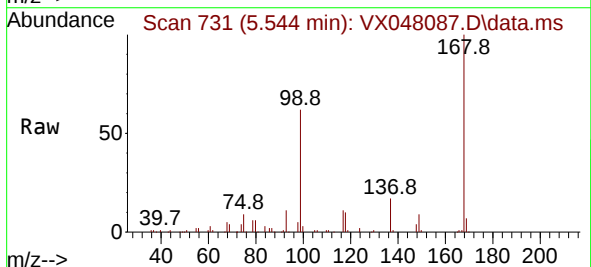
Tgt Ion: 117 Resp: 15686

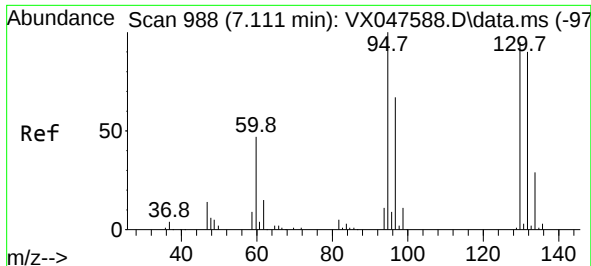
Ion Ratio Lower Upper

117 100

119 5.1 73.4 110.2#

121 0.0 23.8 35.6#

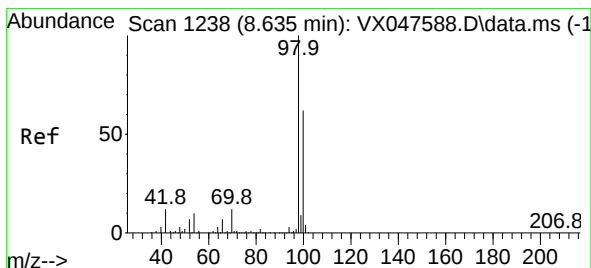
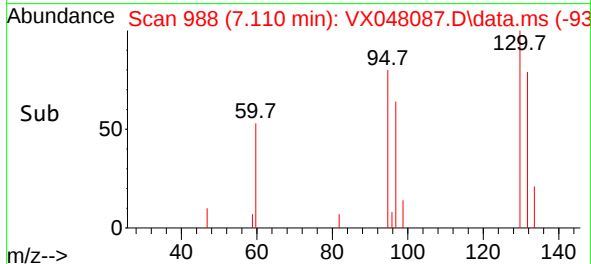
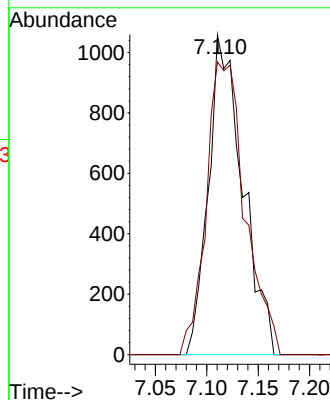
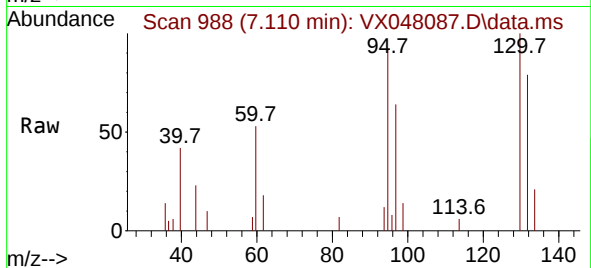




#44
Trichloroethene
Concen: 1.105 ug/l
RT: 7.110 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

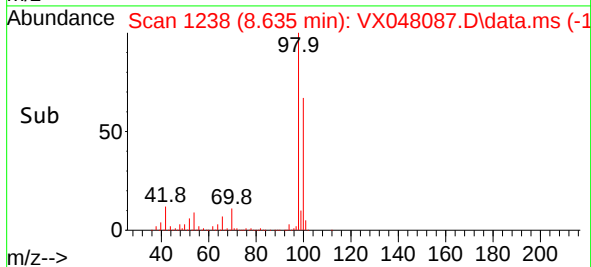
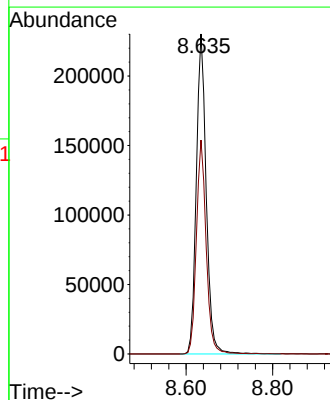
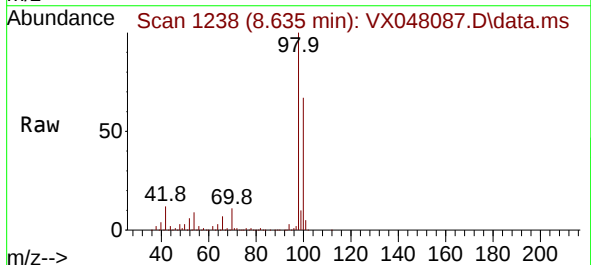
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

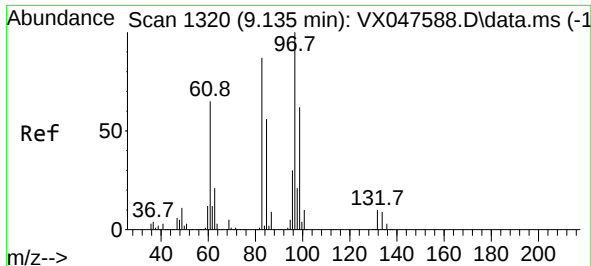
Tgt Ion:130 Resp: 2451
Ion Ratio Lower Upper
130 100
95 91.5 0.0 210.8



#50
Toluene-d8
Concen: 51.146 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 98 Resp: 365877
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4





#55

1,1,2-Trichloroethane

Concen: 2.156 ug/l

RT: 9.256 min Scan# 1

Delta R.T. 0.122 min

Lab File: VX048087.D

Acq: 09 Oct 2025 15:22

Instrument :

MSVOA_X

ClientSampleId :

MW-5BA

Tgt Ion: 97 Resp: 4699

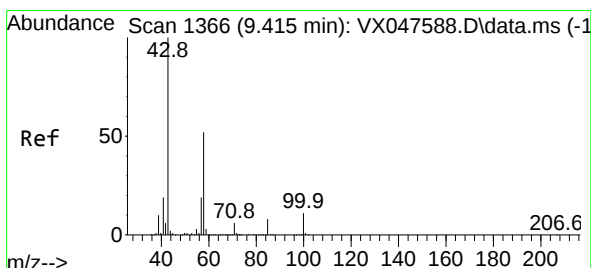
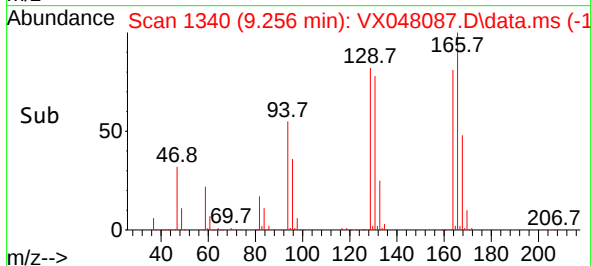
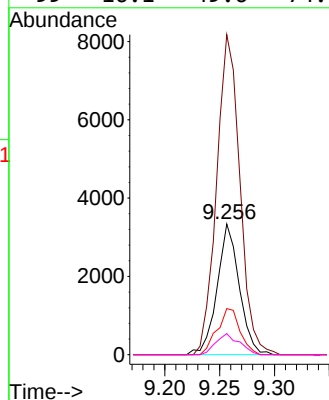
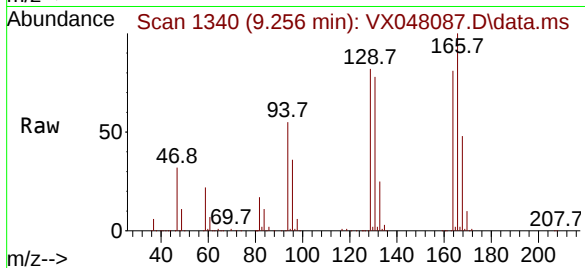
Ion Ratio Lower Upper

97 100

83 244.8 69.6 104.4#

85 35.3 45.0 67.6#

99 16.1 49.6 74.4#



#59

2-Hexanone

Concen: 0.605 ug/l

RT: 9.427 min Scan# 1368

Delta R.T. 0.012 min

Lab File: VX048087.D

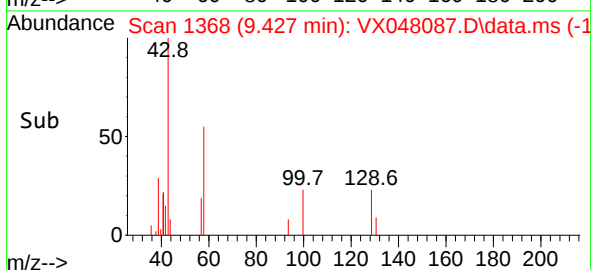
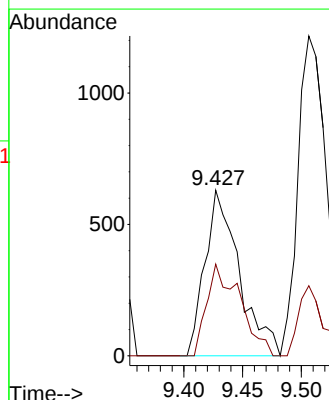
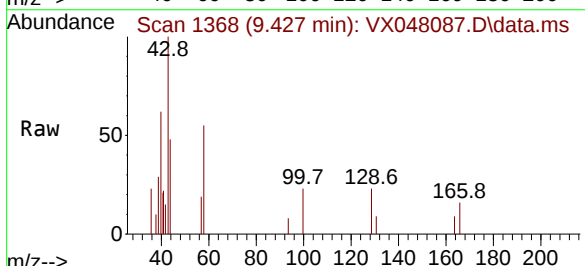
Acq: 09 Oct 2025 15:22

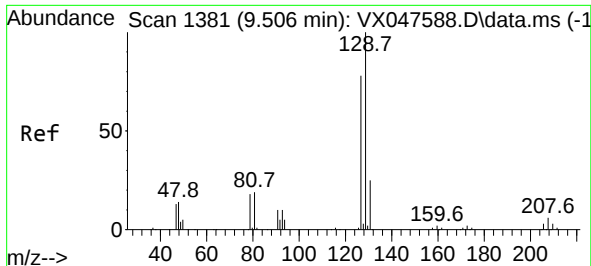
Tgt Ion: 43 Resp: 1278

Ion Ratio Lower Upper

43 100

58 53.8 26.1 78.2

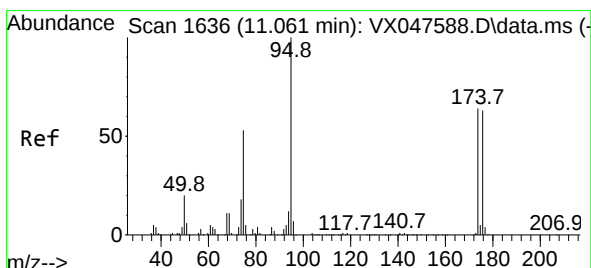
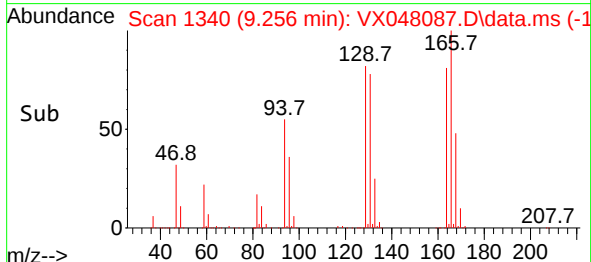
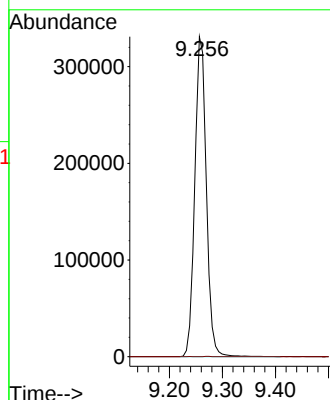
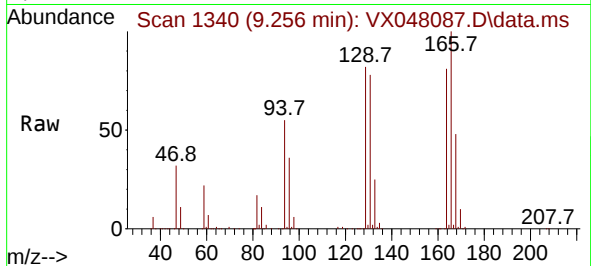




#60
Dibromochloromethane
Concen: 198.676 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

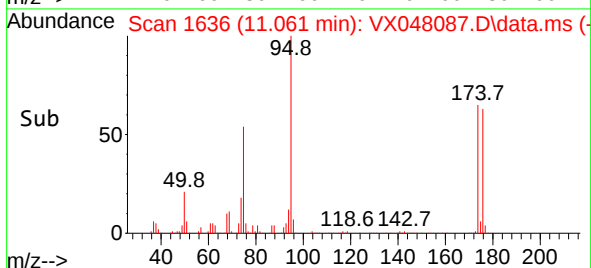
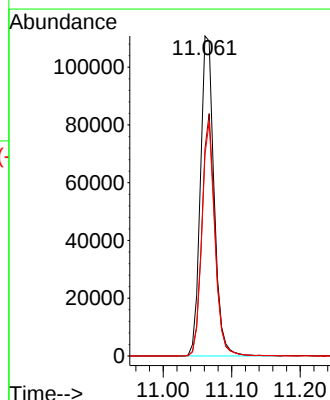
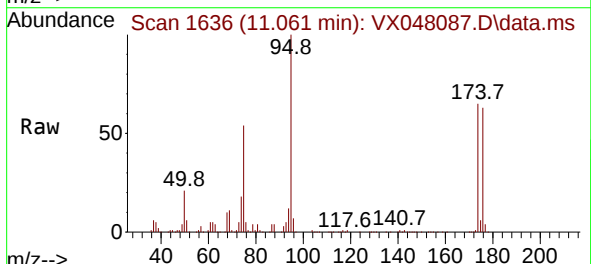
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

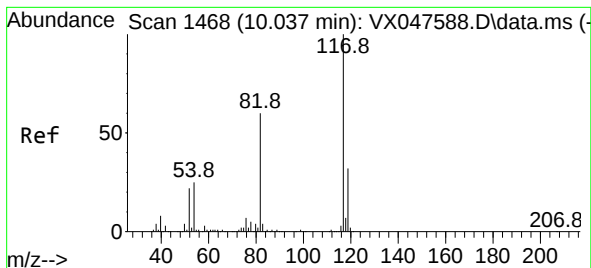
Tgt Ion:129 Resp: 498990
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 56.790 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 95 Resp: 154182
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.6
176 69.0 0.0 138.4

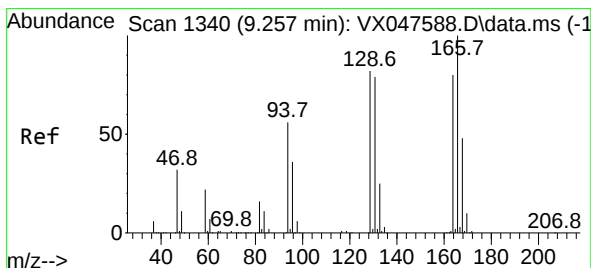
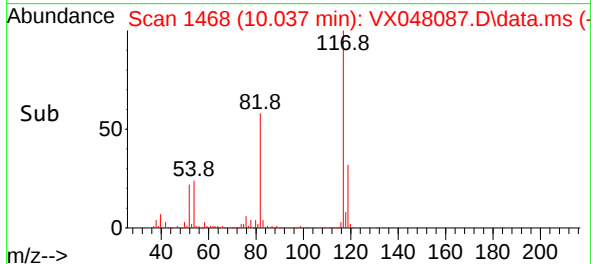
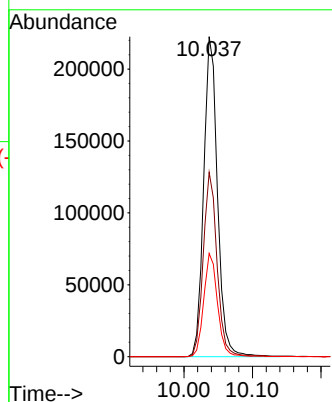
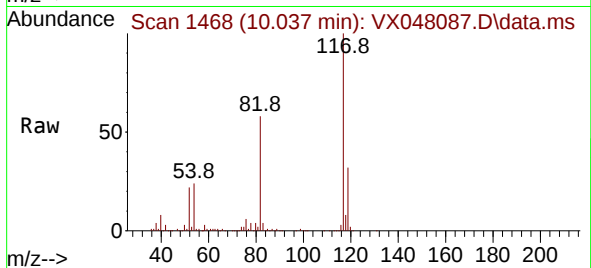




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

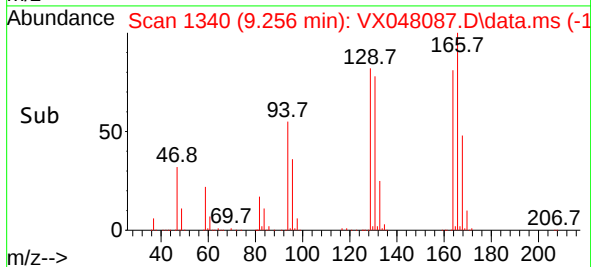
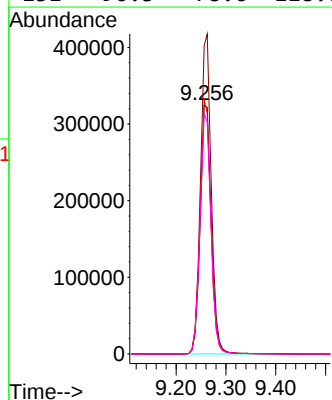
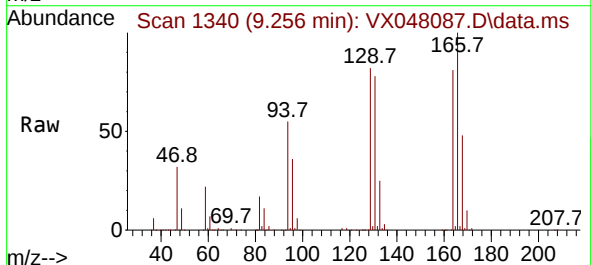
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

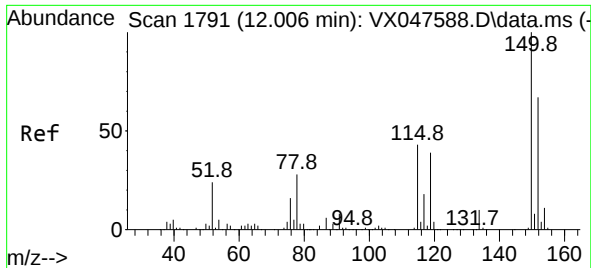
Tgt Ion:117 Resp: 312468
Ion Ratio Lower Upper
117 100
82 57.6 47.8 71.6
119 32.2 25.2 37.8



#64
Tetrachloroethene
Concen: 243.137 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion:164 Resp: 495261
Ion Ratio Lower Upper
164 100
166 123.9 100.2 150.2
129 101.9 81.8 122.6
131 96.3 78.6 118.0

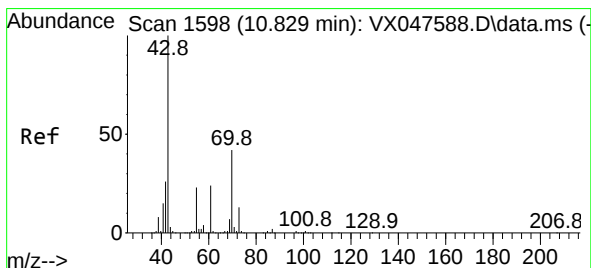
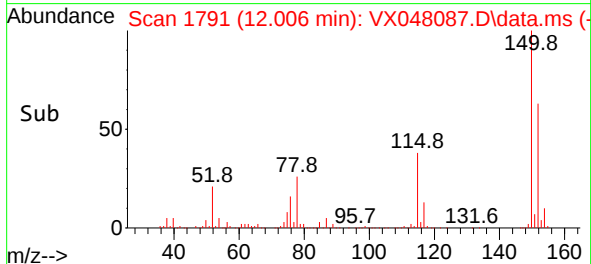
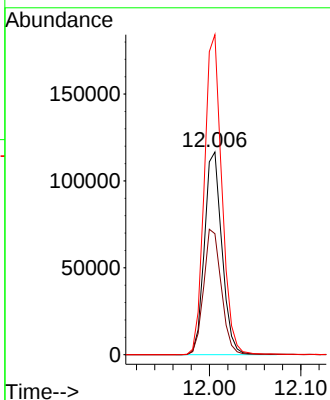
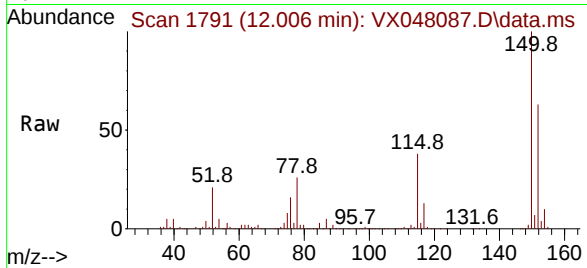




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

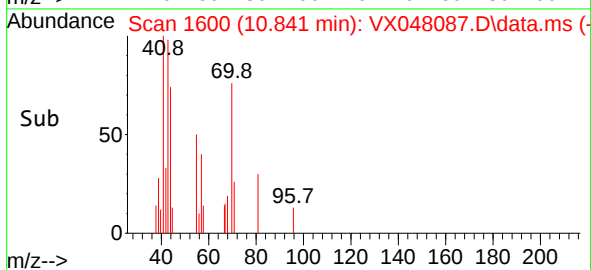
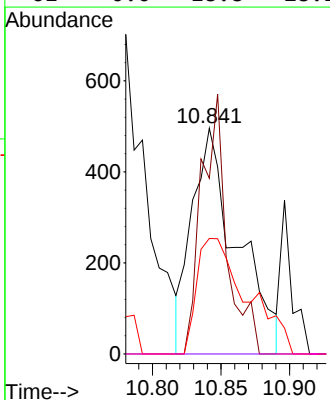
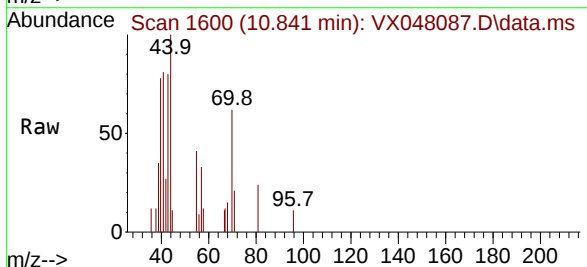
Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

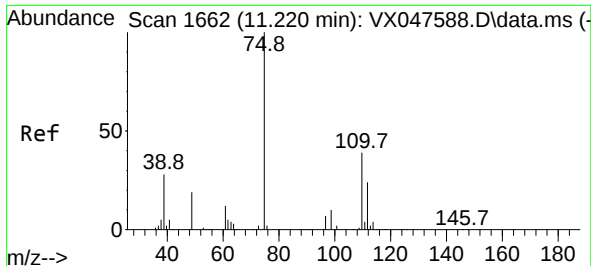
Tgt Ion:152 Resp: 154528
Ion Ratio Lower Upper
152 100
115 62.4 44.9 134.5
150 158.2 0.0 352.0



#74
N-ethyl acetate
Concen: 0.212 ug/l
RT: 10.841 min Scan# 1600
Delta R.T. 0.012 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 43 Resp: 1134
Ion Ratio Lower Upper
43 100
70 65.3 32.0 48.0#
55 57.2 18.9 28.3#
61 0.0 18.8 28.2#

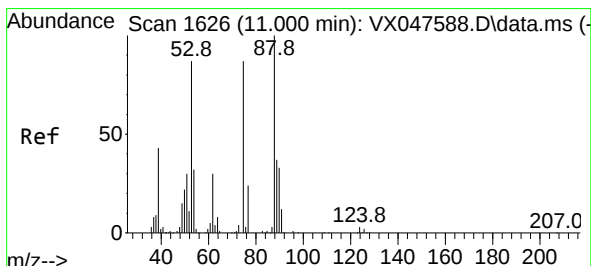
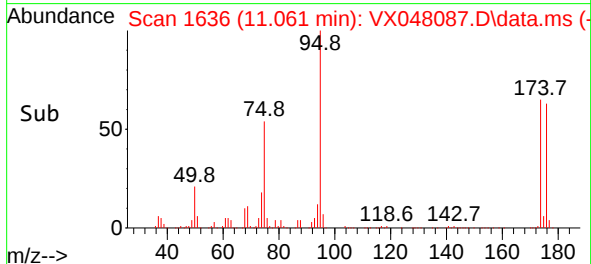
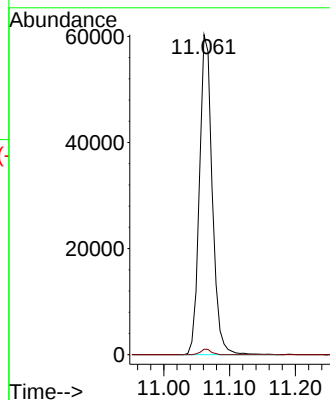
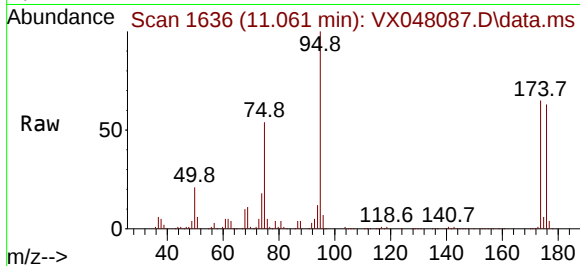




#76
1,2,3-Trichloropropane
Concen: 26.062 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Instrument :
MSVOA_X
ClientSampleId :
MW-5BA

Tgt Ion: 75 Resp: 81539
Ion Ratio Lower Upper
75 100
77 1.4 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.461 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048087.D
Acq: 09 Oct 2025 15:22

Tgt Ion: 75 Resp: 81539
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

