

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102425\
 Data File : VX048351.D
 Acq On : 24 Oct 2025 15:08
 Operator : JC/MD
 Sample : Q3464-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

Quant Time: Oct 24 23:04:59 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

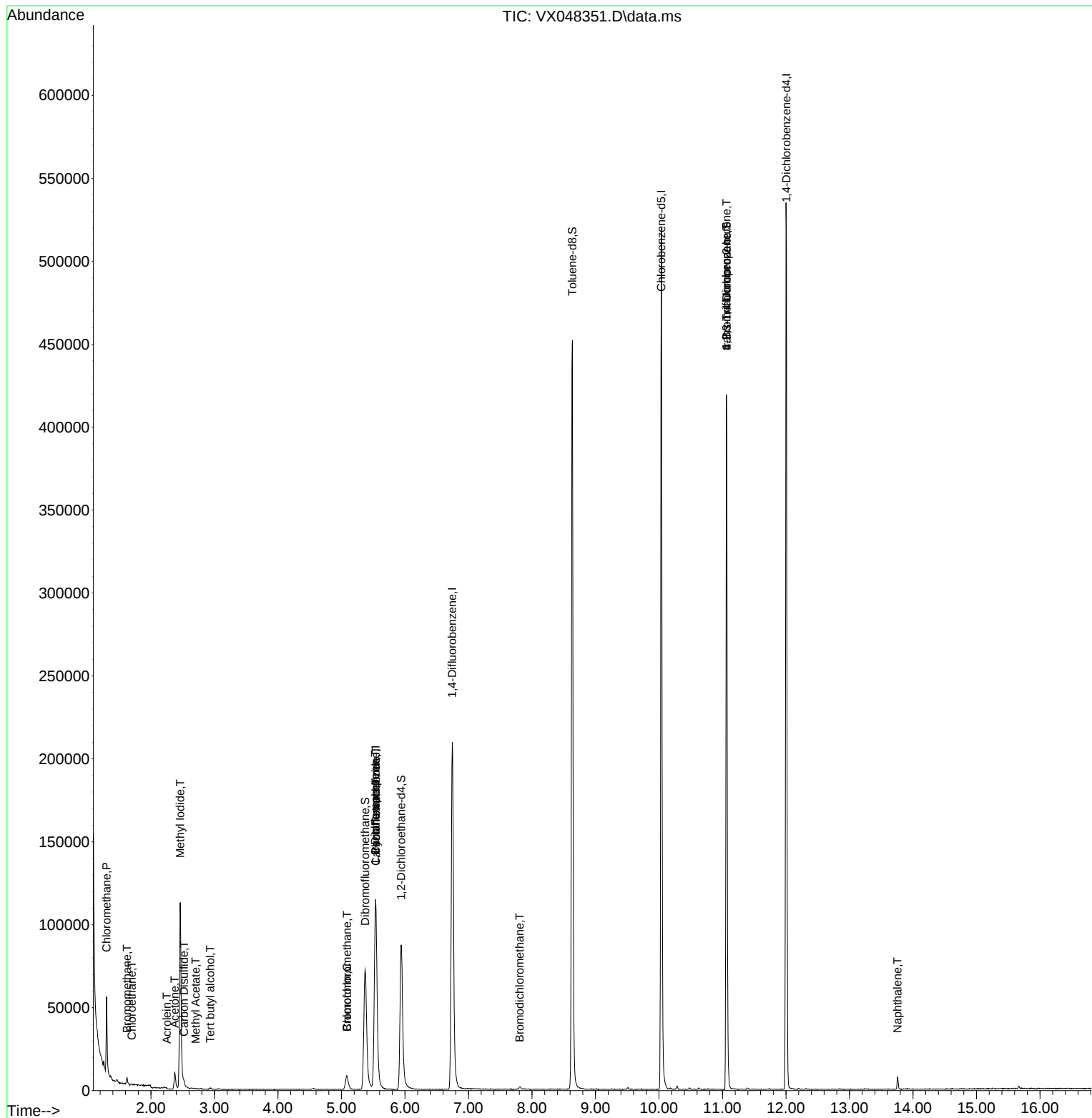
Internal Standards						
1) Pentafluorobenzene	5.538	168	113441	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	225869	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	230834	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	110100	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	98891	62.175	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 124.360%#	
35) Dibromofluoromethane	5.373	113	70989	46.037	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 92.080%	
50) Toluene-d8	8.635	98	279588	51.729	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 103.460%	
62) 4-Bromofluorobenzene	11.061	95	114989	55.924	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 111.840%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.301	50	31774	29.190	ug/l	99
5) Bromomethane	1.624	94	1888	2.760	ug/l	86
6) Chloroethane	1.697	64	182	0.307	ug/l #	45
10) Methyl Iodide	2.459	142	120161	78.080	ug/l	99
11) Tert butyl alcohol	2.934	59	40	0.253	ug/l #	72
13) Acrolein	2.252	56	79	0.491	ug/l #	15
16) Acetone	2.374	43	12826	23.506	ug/l	97
17) Carbon Disulfide	2.520	76	2063	0.550	ug/l	99
18) Methyl Acetate	2.703	43	763	0.670	ug/l #	54
28) Bromochloromethane	5.087	49	1017	1.029	ug/l #	15
30) Chloroform	5.087	83	10633	4.173	ug/l	85
31) Cyclohexane	5.538	56	2779	1.408	ug/l #	34
36) 1,1-Dichloropropene	5.532	75	9864	4.501	ug/l #	49
38) Carbon Tetrachloride	5.544	117	12105	4.477	ug/l #	15
47) Bromodichloromethane	7.806	83	1351	0.531	ug/l #	86
76) 1,2,3-Trichloropropane	11.061	75	64028	35.861	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	64028	87.247	ug/l #	10
95) Naphthalene	13.756	128	4570	0.715	ug/l	99

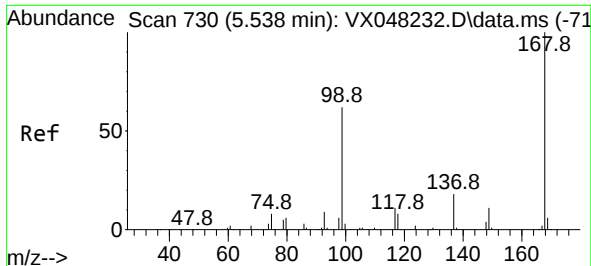
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Oct 24 23:04:59 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
Quant Title : SW846 8260
QLast Update : Mon Oct 20 14:13:59 2025
Response via : Initial Calibration

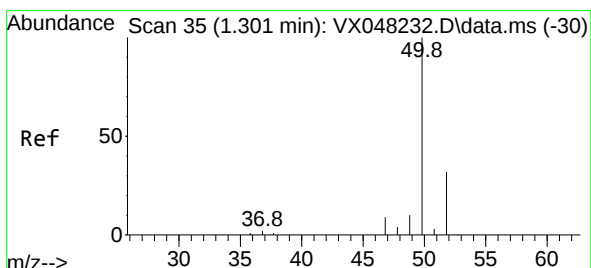
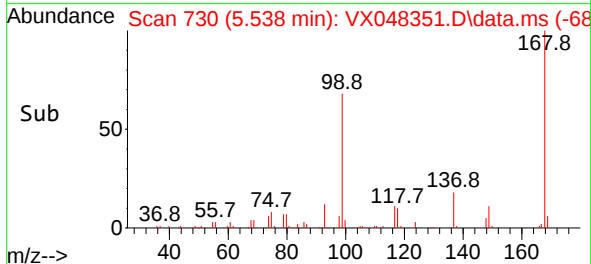
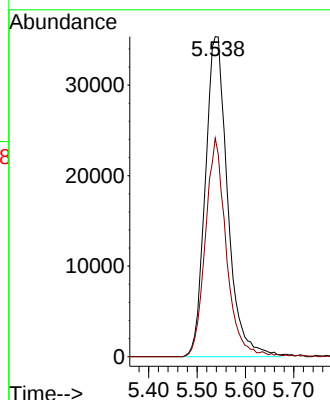
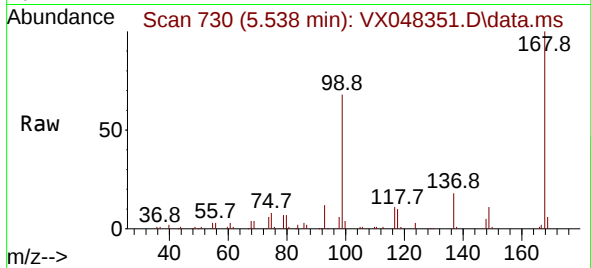




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

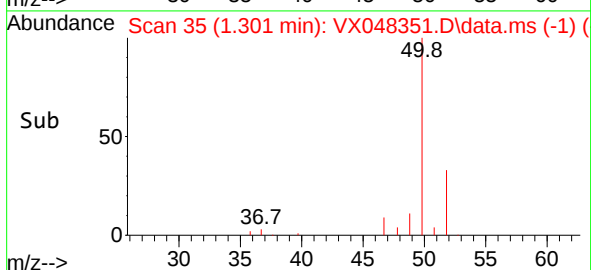
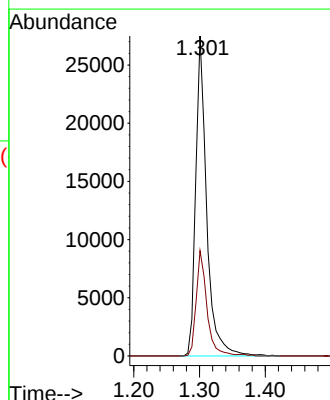
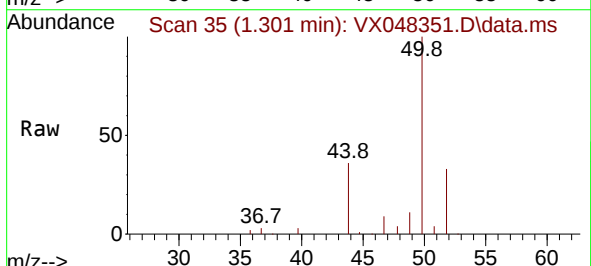
Instrument :
MSVOA_X
ClientSampleId :
MW2

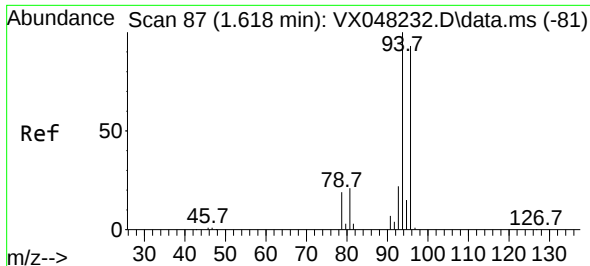
Tgt Ion:168 Resp: 113441
Ion Ratio Lower Upper
168 100
99 68.3 46.4 69.6



#3
Chloromethane
Concen: 29.190 ug/l
RT: 1.301 min Scan# 35
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 50 Resp: 31774
Ion Ratio Lower Upper
50 100
52 32.9 25.9 38.9

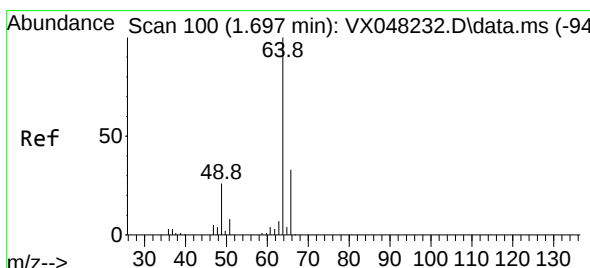
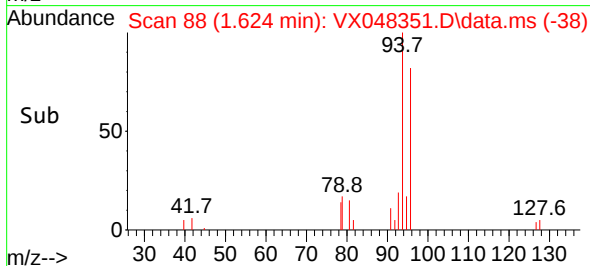
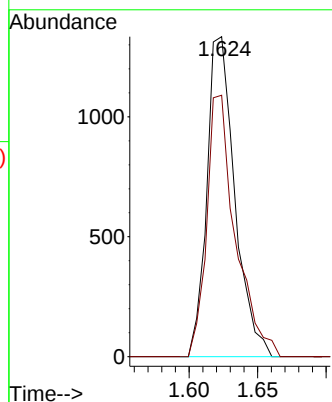
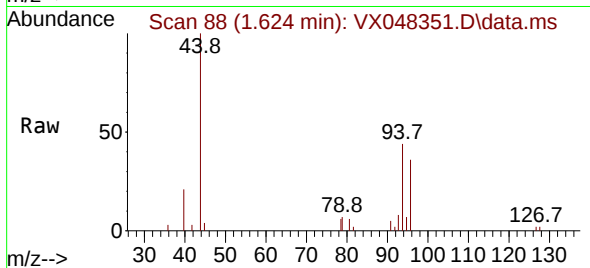




#5
Bromomethane
Concen: 2.760 ug/l
RT: 1.624 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

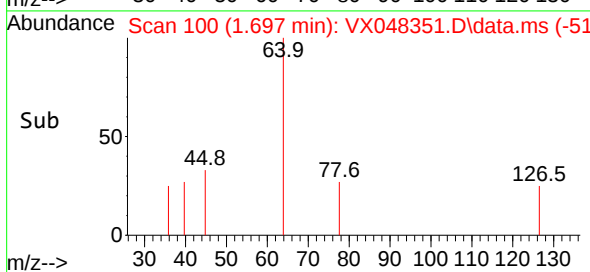
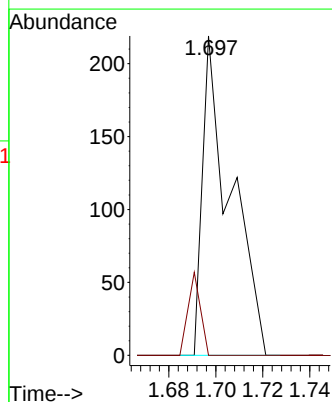
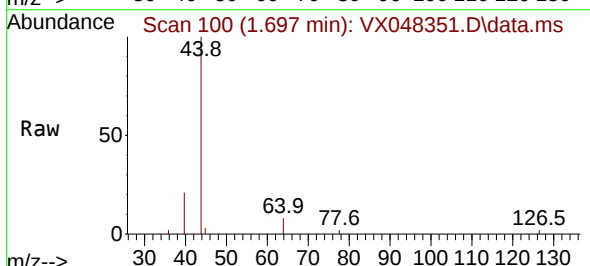
Instrument :
MSVOA_X
ClientSampleId :
MW2

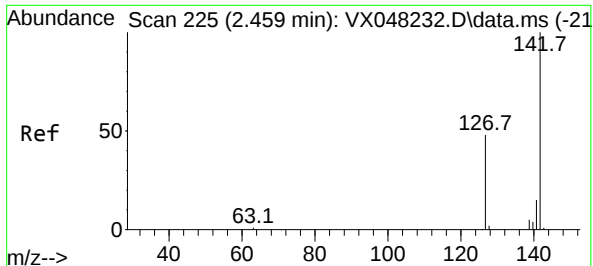
Tgt Ion: 94 Resp: 1888
Ion Ratio Lower Upper
94 100
96 81.7 76.0 114.0



#6
Chloroethane
Concen: 0.307 ug/l
RT: 1.697 min Scan# 100
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 64 Resp: 182
Ion Ratio Lower Upper
64 100
66 0.0 23.9 35.9#

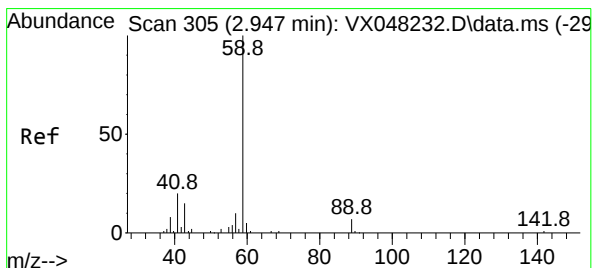
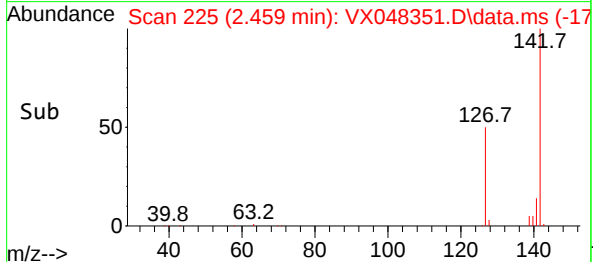
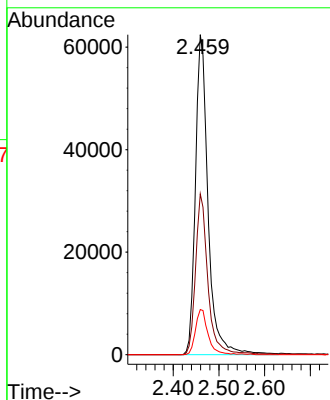
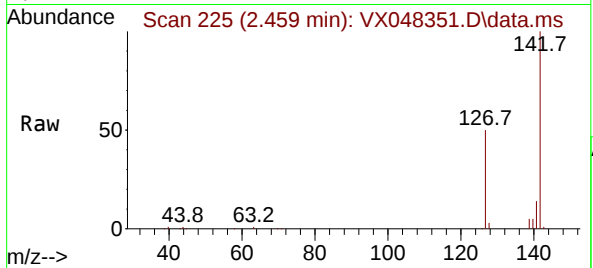




#10
Methyl Iodide
Concen: 78.080 ug/l
RT: 2.459 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

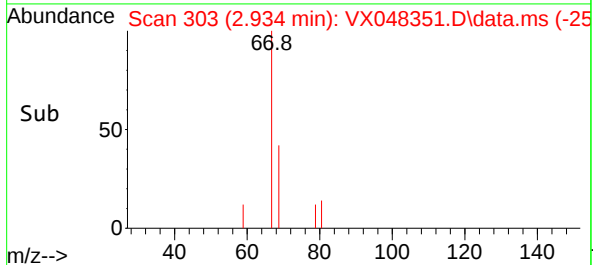
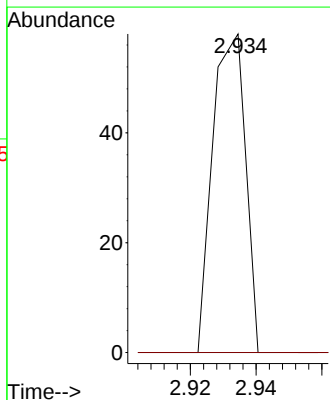
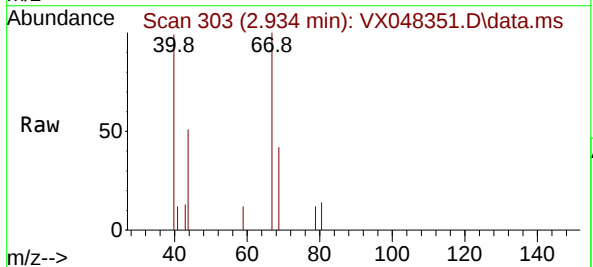
Instrument :
MSVOA_X
ClientSampleId :
MW2

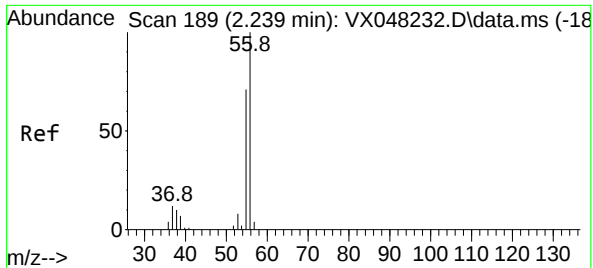
Tgt Ion:142 Resp: 120161
Ion Ratio Lower Upper
142 100
127 49.2 38.5 57.7
141 14.1 11.6 17.4



#11
Tert butyl alcohol
Concen: 0.253 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 59 Resp: 40
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

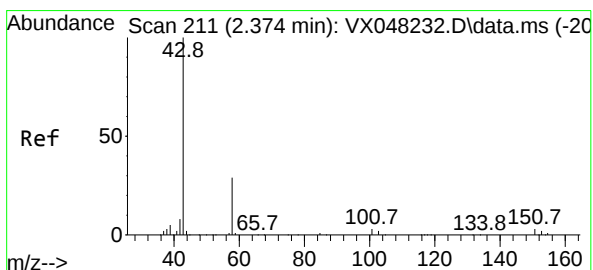
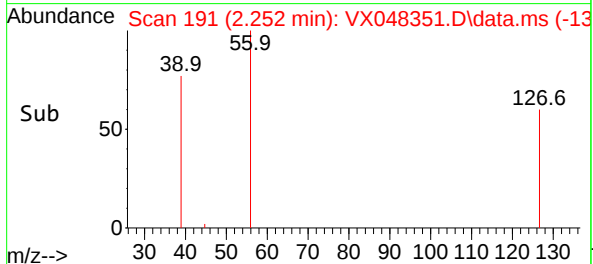
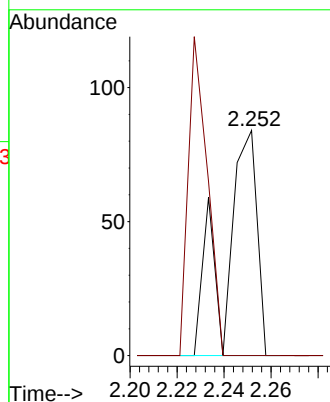
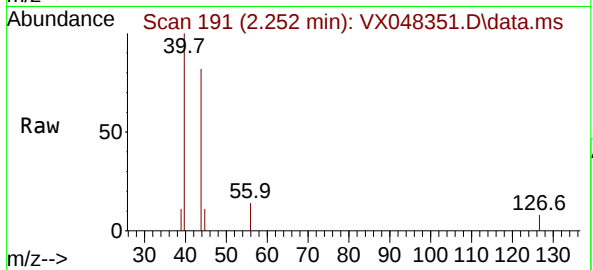




#13
Acrolein
Concen: 0.491 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.018 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

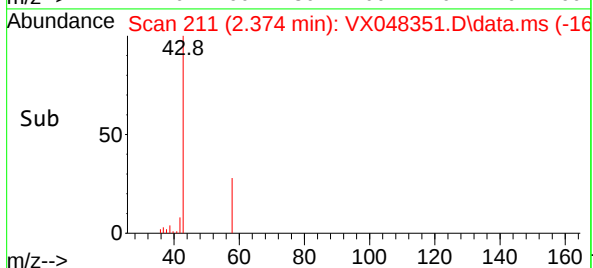
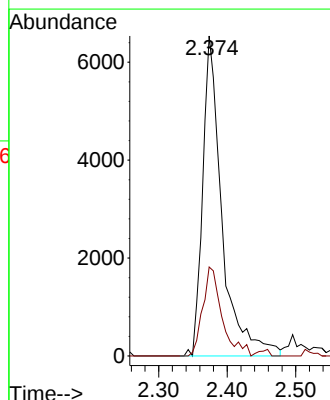
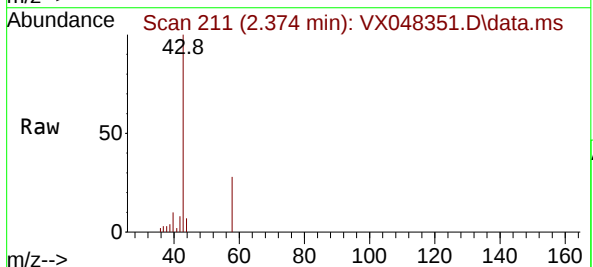
Instrument :
MSVOA_X
ClientSampleId :
MW2

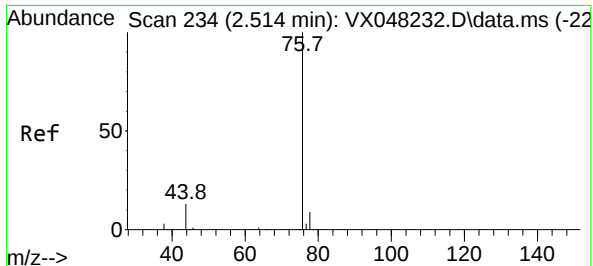
Tgt Ion: 56 Resp: 79
Ion Ratio Lower Upper
56 100
55 0.0 56.1 84.1#



#16
Acetone
Concen: 23.506 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 43 Resp: 12826
Ion Ratio Lower Upper
43 100
58 27.8 23.4 35.2

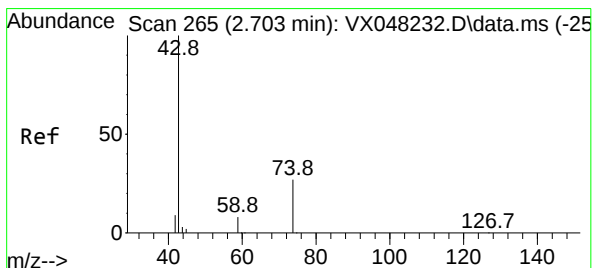
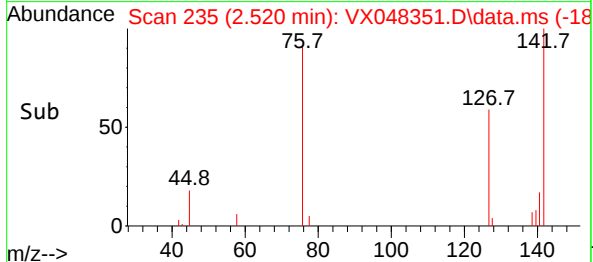
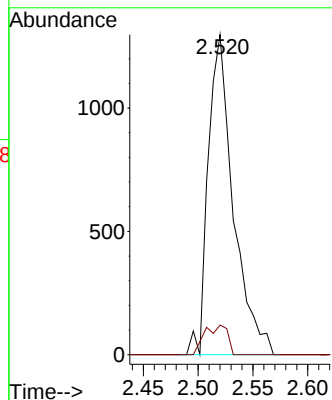
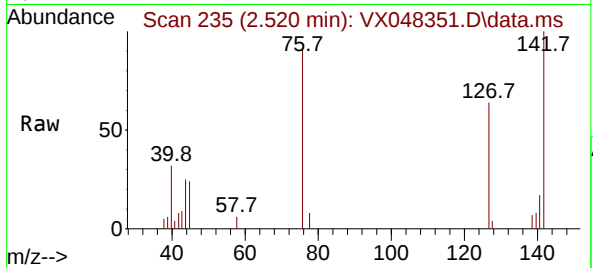




#17
Carbon Disulfide
Concen: 0.550 ug/l
RT: 2.520 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

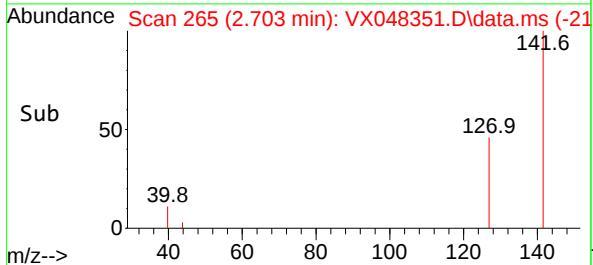
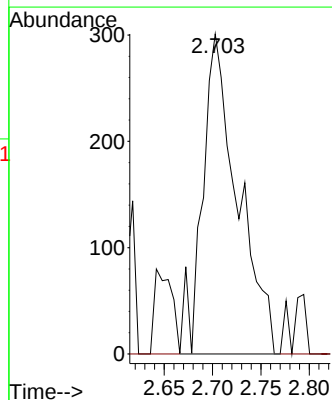
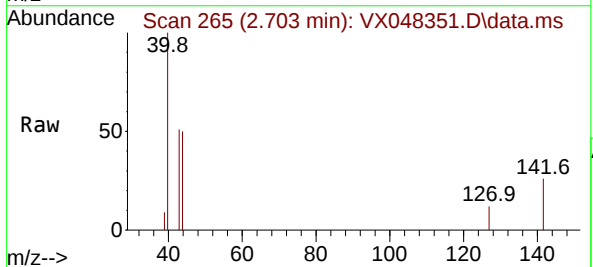
Instrument :
MSVOA_X
ClientSampleId :
MW2

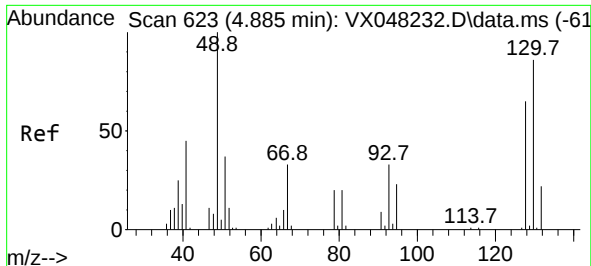
Tgt Ion: 76 Resp: 2063
Ion Ratio Lower Upper
76 100
78 9.2 7.1 10.7



#18
Methyl Acetate
Concen: 0.670 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 43 Resp: 763
Ion Ratio Lower Upper
43 100
74 0.0 17.5 26.3#





#28

Bromochloromethane

Concen: 1.029 ug/l

RT: 5.087 min Scan# 61

Delta R.T. 0.201 min

Lab File: VX048351.D

Acq: 24 Oct 2025 15:08

Instrument :

MSVOA_X

ClientSampleId :

MW2

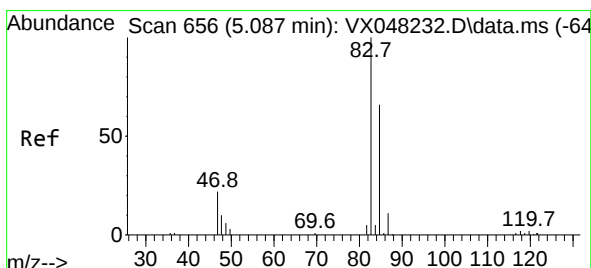
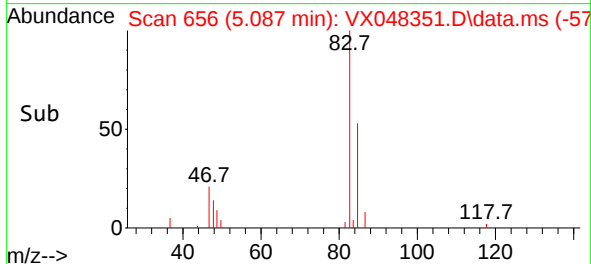
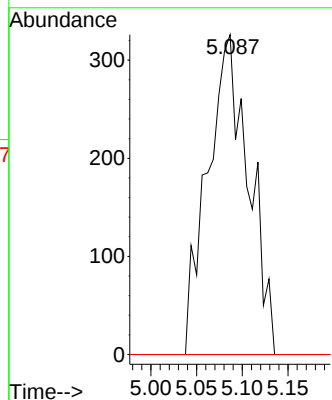
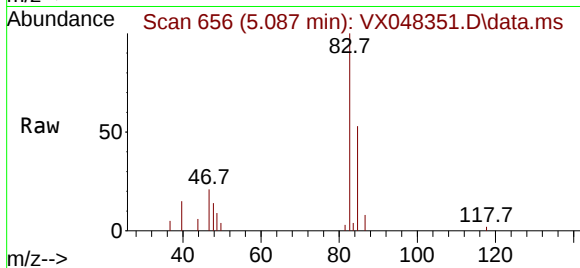
Tgt Ion: 49 Resp: 1017

Ion Ratio Lower Upper

49 100

129 0.0 0.0 4.4

130 0.0 59.3 88.9#



#30

Chloroform

Concen: 4.173 ug/l

RT: 5.087 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX048351.D

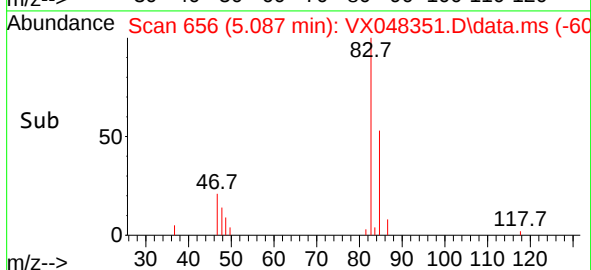
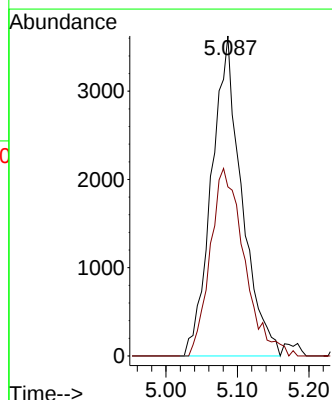
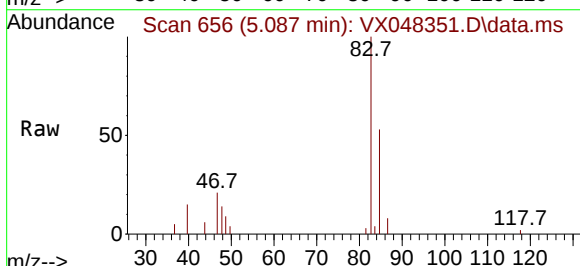
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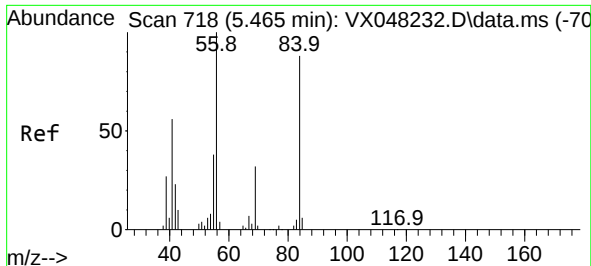
Tgt Ion: 83 Resp: 10633

Ion Ratio Lower Upper

83 100

85 50.8 50.1 75.1

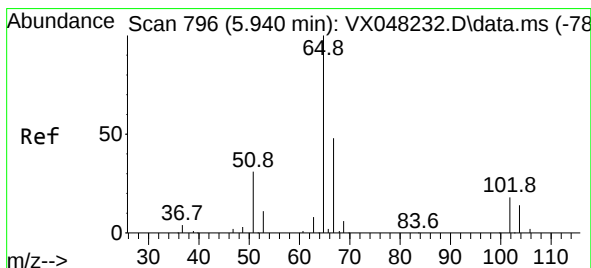
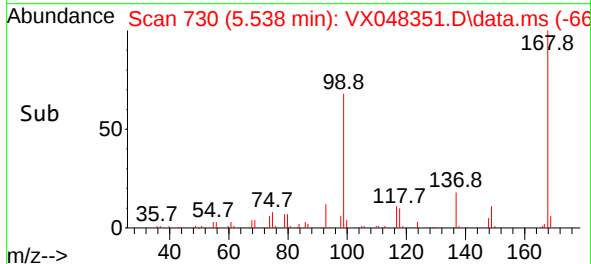
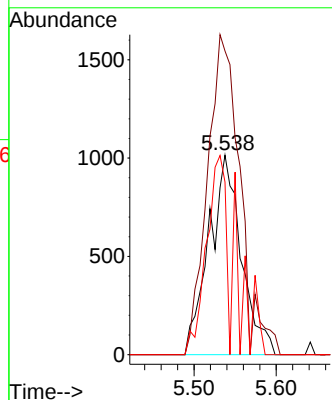
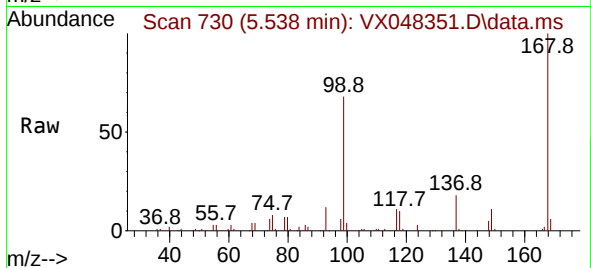




#31
Cyclohexane
Concen: 1.408 ug/l
RT: 5.538 min Scan# 718
Delta R.T. 0.079 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

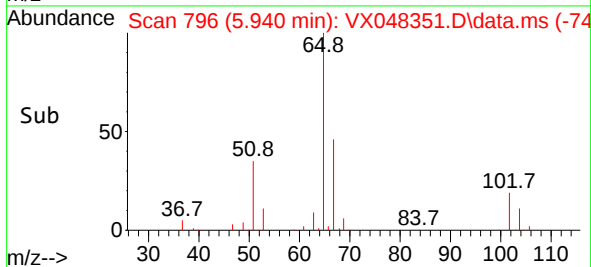
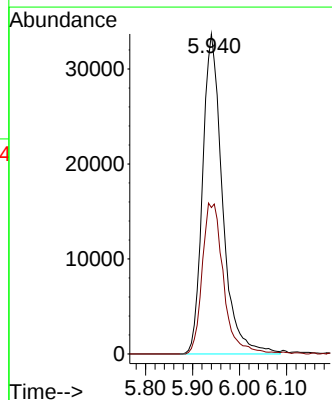
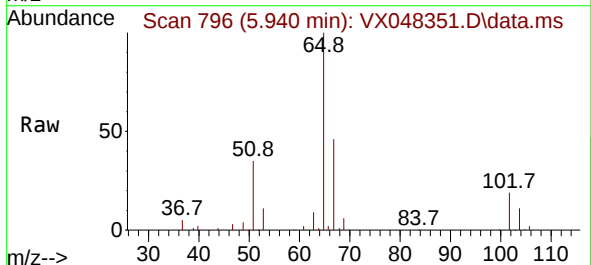
Instrument :
MSVOA_X
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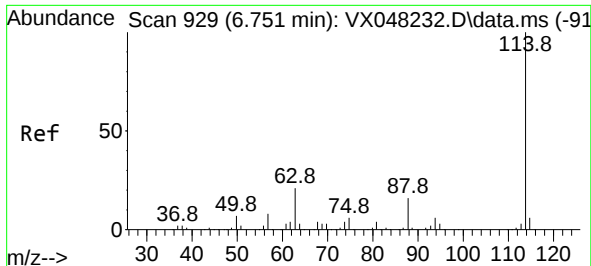
Tgt Ion: 56 Resp: 2779
Ion Ratio Lower Upper
56 100
69 152.2 23.0 34.6#
84 86.5 64.6 97.0



#33
1,2-Dichloroethane-d4
Concen: 62.175 ug/l
RT: 5.940 min Scan# 796
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 65 Resp: 98891
Ion Ratio Lower Upper
65 100
67 50.5 0.0 105.0

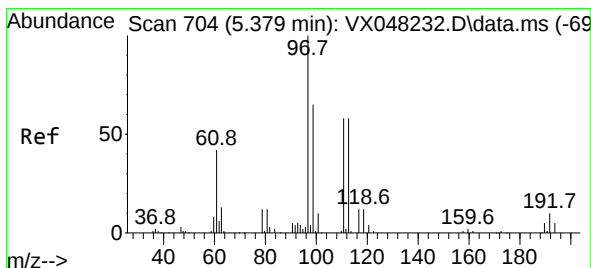
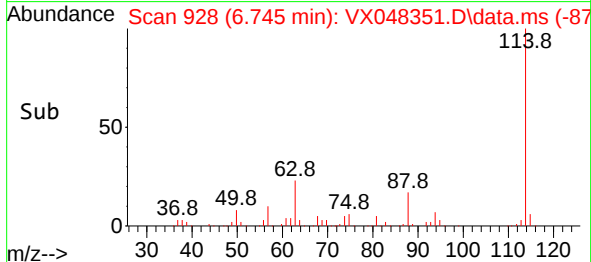
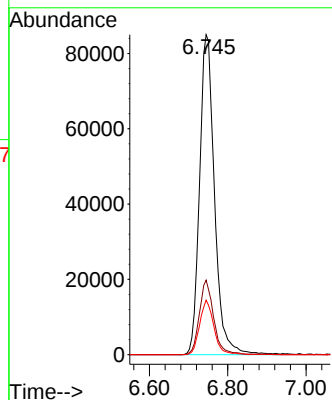
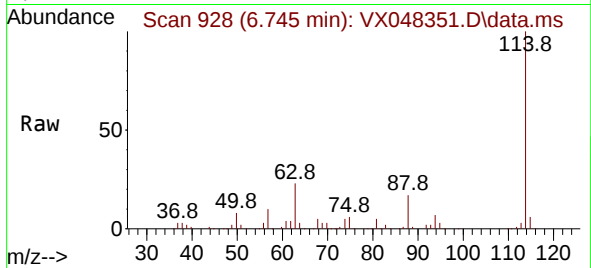




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

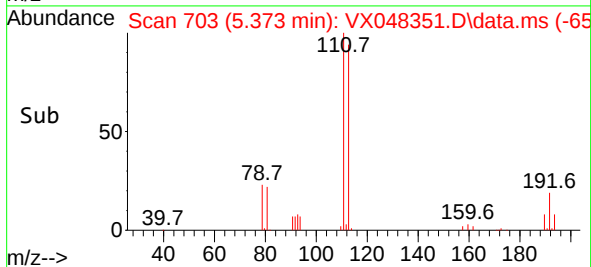
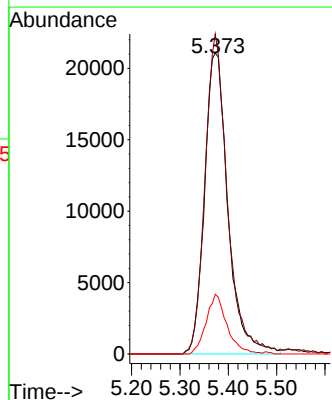
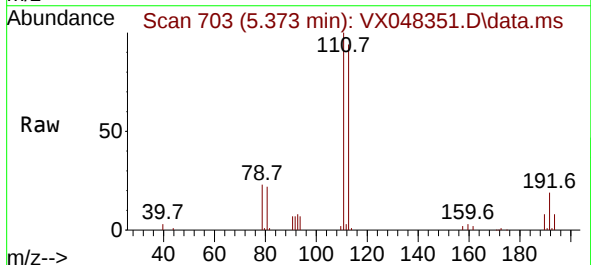
Instrument :
MSVOA_X
ClientSampleId :
MW2

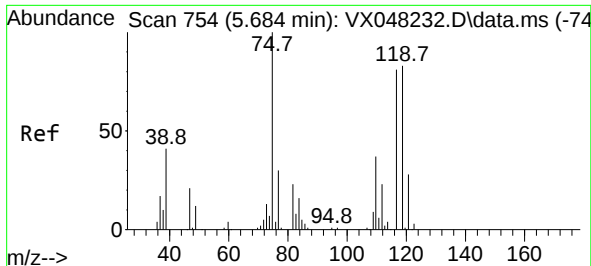
Tgt Ion:114 Resp: 225869
Ion Ratio Lower Upper
114 100
63 23.3 0.0 43.2
88 17.0 0.0 33.6



#35
Dibromofluoromethane
Concen: 46.037 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion:113 Resp: 70989
Ion Ratio Lower Upper
113 100
111 101.8 82.2 123.4
192 17.6 15.1 22.7

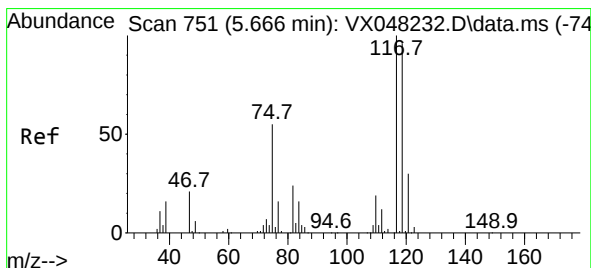
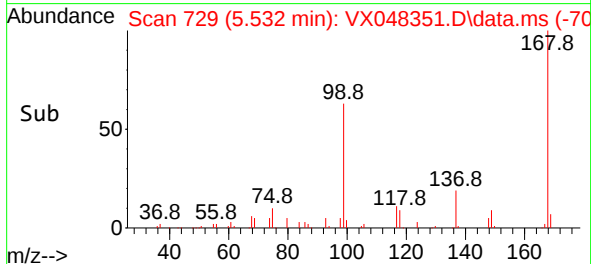
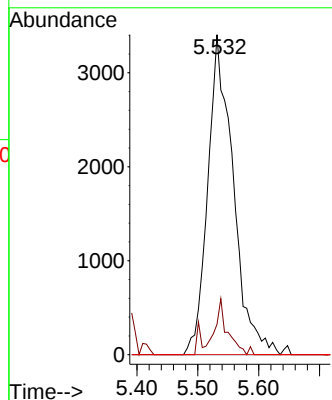
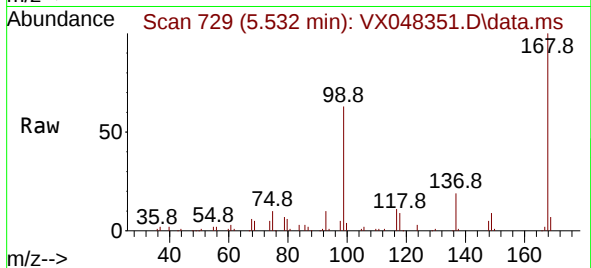




#36
1,1-Dichloropropene
Concen: 4.501 ug/l
RT: 5.532 min Scan# 711
Delta R.T. -0.152 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

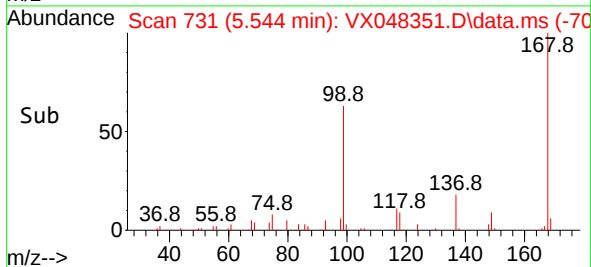
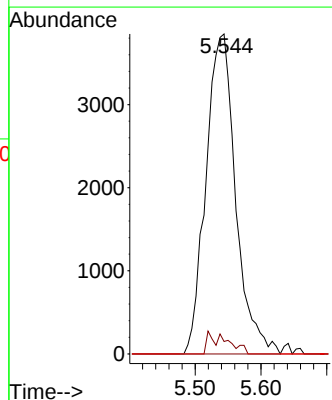
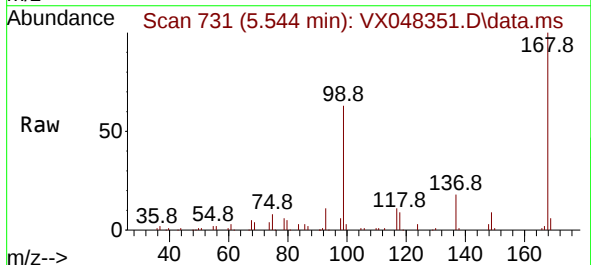
Instrument :
MSVOA_X
ClientSampleId :
MW2

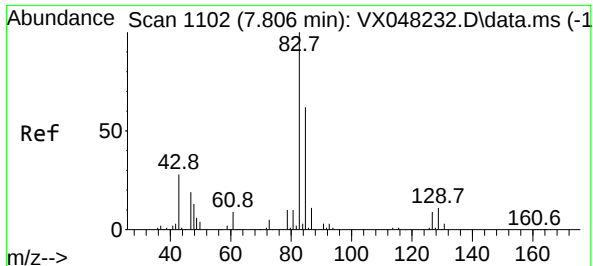
Tgt Ion: 75 Resp: 9864
Ion Ratio Lower Upper
75 100
110 8.3 17.7 53.1#
77 0.0 24.3 36.5#



#38
Carbon Tetrachloride
Concen: 4.477 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.122 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 117 Resp: 12105
Ion Ratio Lower Upper
117 100
119 3.9 77.2 115.8#
121 0.0 24.8 37.2#

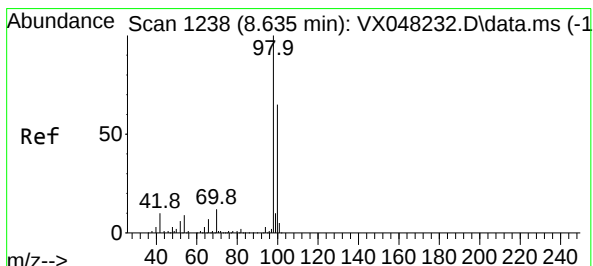
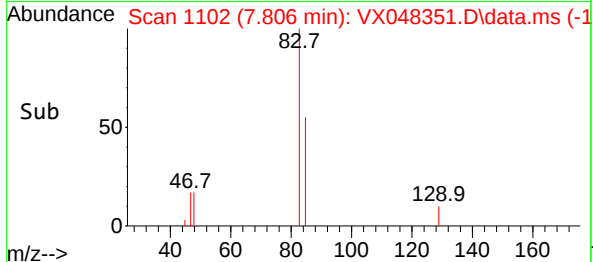
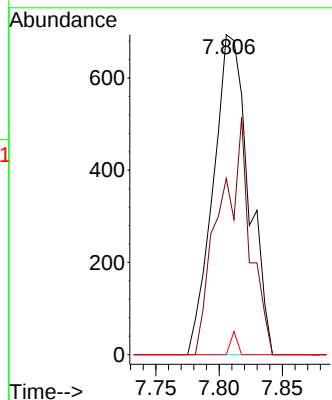
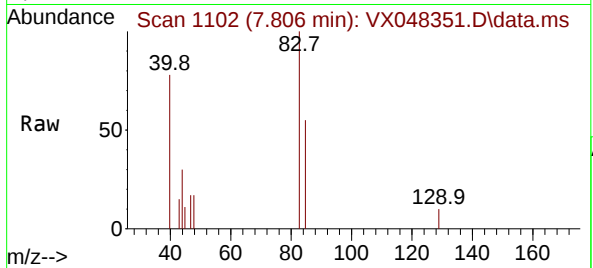




#47
 Bromodichloromethane
 Concen: 0.531 ug/l
 RT: 7.806 min Scan# 1102
 Delta R.T. 0.000 min
 Lab File: VX048351.D
 Acq: 24 Oct 2025 15:08

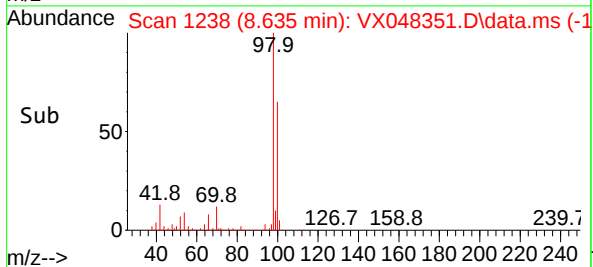
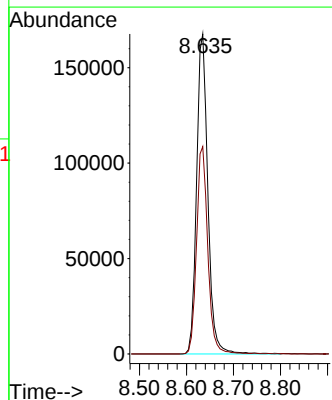
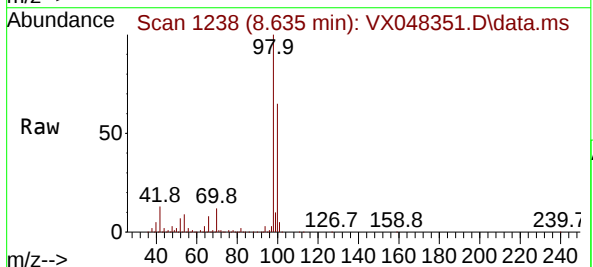
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

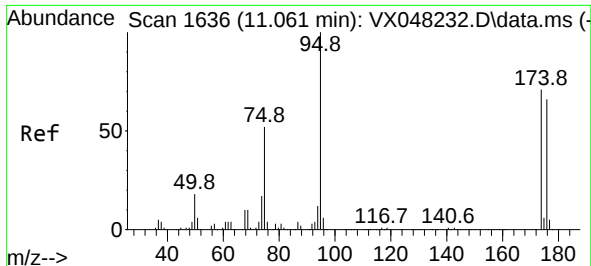
Tgt Ion: 83 Resp: 1351
 Ion Ratio Lower Upper
 83 100
 85 55.0 52.2 78.4
 127 0.0 7.3 10.9#



#50
 Toluene-d8
 Concen: 51.729 ug/l
 RT: 8.635 min Scan# 1238
 Delta R.T. 0.000 min
 Lab File: VX048351.D
 Acq: 24 Oct 2025 15:08

Tgt Ion: 98 Resp: 279588
 Ion Ratio Lower Upper
 98 100
 100 64.8 53.0 79.4

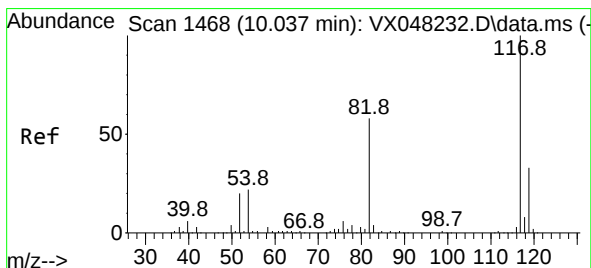
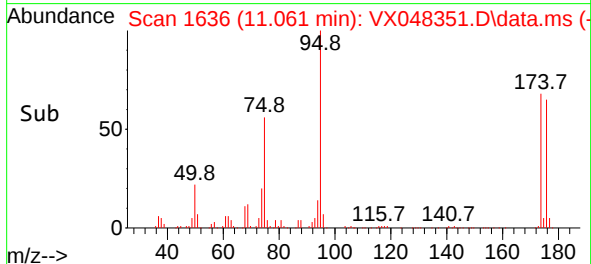
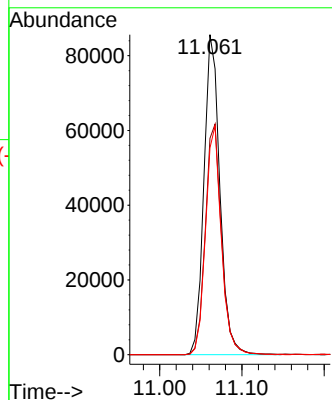
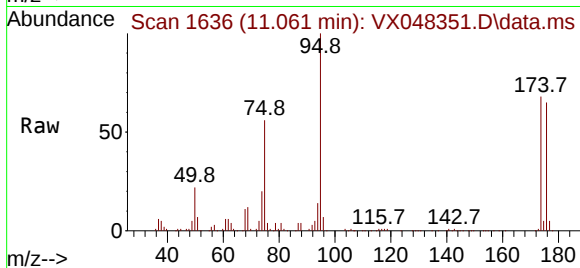




#62
4-Bromofluorobenzene
Concen: 55.924 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

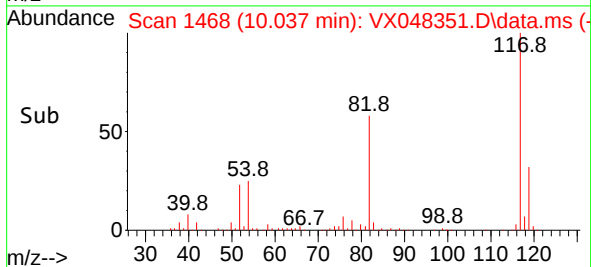
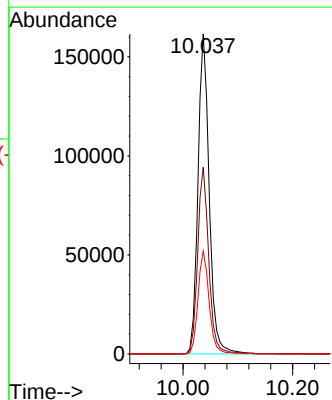
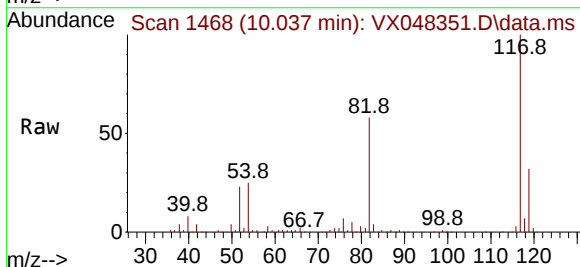
Instrument :
MSVOA_X
ClientSampleId :
MW2

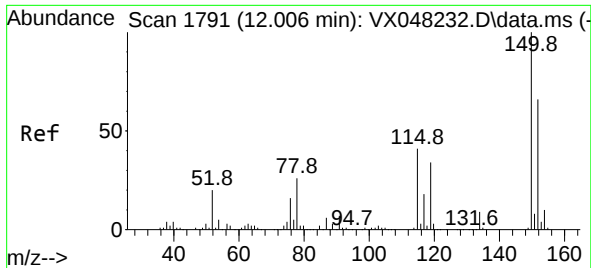
Tgt Ion: 95 Resp: 114989
Ion Ratio Lower Upper
95 100
174 73.6 0.0 147.8
176 70.9 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion: 117 Resp: 230834
Ion Ratio Lower Upper
117 100
82 58.3 46.5 69.7
119 32.2 25.9 38.9

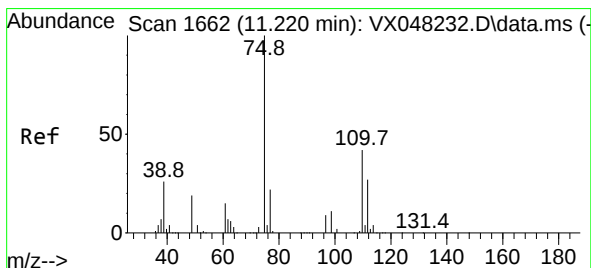
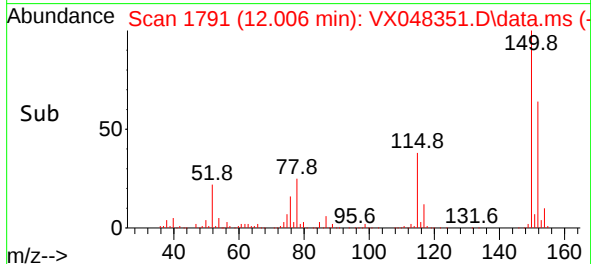
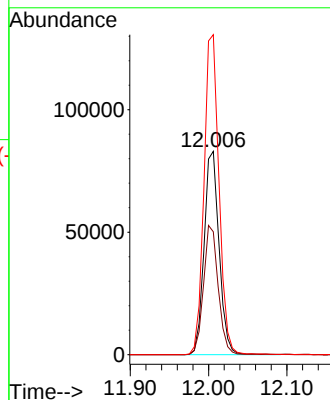
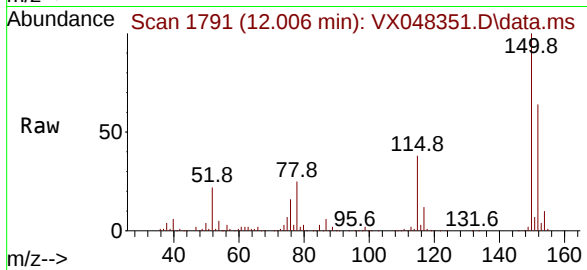




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX048351.D
 Acq: 24 Oct 2025 15:08

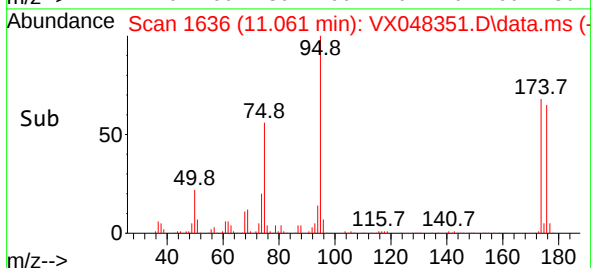
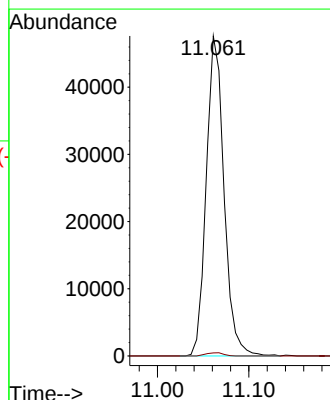
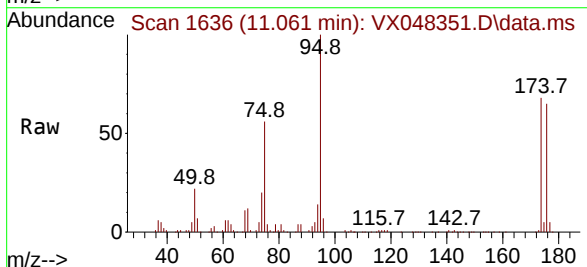
Instrument :
 MSVOA_X
 ClientSampleId :
 MW2

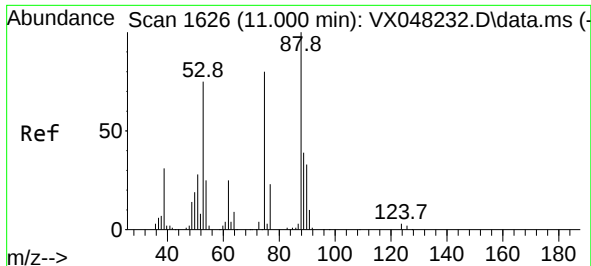
Tgt Ion:152 Resp: 110100
 Ion Ratio Lower Upper
 152 100
 115 62.4 43.1 129.4
 150 157.7 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 35.861 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.158 min
 Lab File: VX048351.D
 Acq: 24 Oct 2025 15:08

Tgt Ion: 75 Resp: 64028
 Ion Ratio Lower Upper
 75 100
 77 1.0 22.4 67.2#

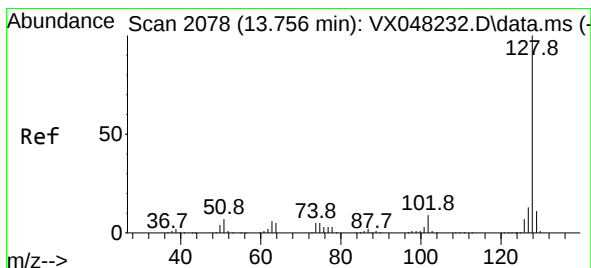
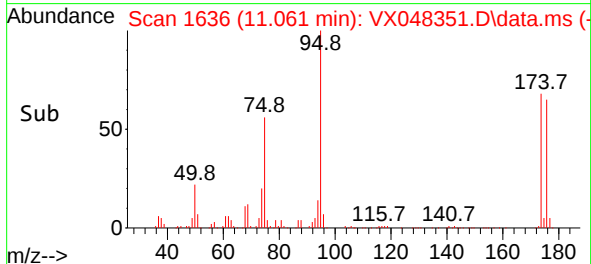
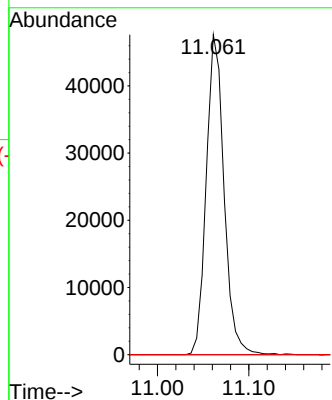
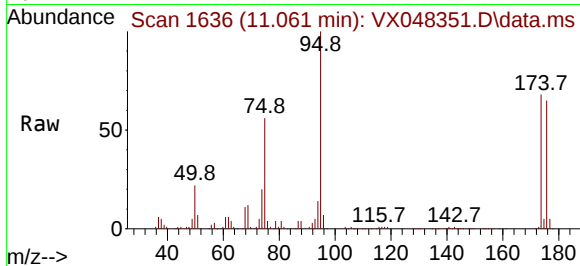




#81
trans-1,4-Dichloro-2-butene
Concen: 87.247 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Instrument :
MSVOA_X
ClientSampleId :
MW2

Tgt Ion: 75 Resp: 64028
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#95
Naphthalene
Concen: 0.715 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. 0.000 min
Lab File: VX048351.D
Acq: 24 Oct 2025 15:08

Tgt Ion:128 Resp: 4570
Ion Ratio Lower Upper
128 100
127 13.7 10.2 15.4
129 10.7 8.6 12.8

