

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX112425\
 Data File : VX048665.D
 Acq On : 24 Nov 2025 15:48
 Operator : JC/MD
 Sample : Q3710-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

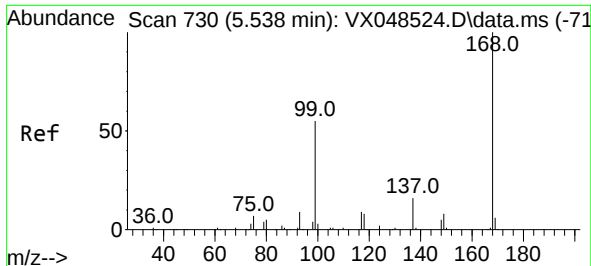
Instrument :
 MSVOA_X
 ClientSampleId :
 RBR200028-RT5376-COMP

Quant Time: Nov 26 00:26:36 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X110725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 08 05:08:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	189391	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	365083	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	388926	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	228567	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	143025	54.196	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 108.400%		
35) Dibromofluoromethane	5.373	113	128132	46.371	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 92.740%		
50) Toluene-d8	8.634	98	432022	50.131	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 100.260%		
62) 4-Bromofluorobenzene	11.061	95	183313	57.078	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 114.160%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	309	0.212	ug/l #	63
10) Methyl Iodide	2.465	142	681	0.218	ug/l #	92
11) Tert butyl alcohol	2.934	59	2006	4.012	ug/l #	94
16) Acetone	2.373	43	13567	10.861	ug/l	97
18) Methyl Acetate	2.709	43	2983	0.869	ug/l	98
20) Methylene Chloride	2.788	84	9087	3.538	ug/l	93
25) 2-Butanone	4.550	43	13508	7.310	ug/l	94
29) Tetrahydrofuran	5.007	42	364	0.276	ug/l #	56
31) Cyclohexane	5.544	56	4148	1.171	ug/l #	12
36) 1,1-Dichloropropene	5.537	75	15214	4.112	ug/l #	49
37) Ethyl Acetate	4.550	43	13508	2.594	ug/l #	71
38) Carbon Tetrachloride	5.537	117	19461	4.620	ug/l #	17
43) Isopropyl Acetate	6.330	43	13830	1.889	ug/l	95
48) Methyl methacrylate	7.781	41	58834	18.077	ug/l #	42
49) 1,4-Dioxane	7.787	88	23	0.464	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	53427	12.820	ug/l #	49
54) cis-1,3-Dichloropropene	8.531	75	23477	5.734	ug/l #	66
57) 1,3-Dichloropropane	9.470	76	2062	0.491	ug/l #	42
59) 2-Hexanone	9.421	43	4859	1.567	ug/l	88
74) N-amyl acetate	10.750	43	75993	9.122	ug/l #	45
76) 1,2,3-Trichloropropane	11.061	75	96231	17.476	ug/l #	30
81) trans-1,4-Dichloro-2-b...	11.061	75	96231	49.986	ug/l #	12
95) Naphthalene	13.755	128	26341	1.599	ug/l	99

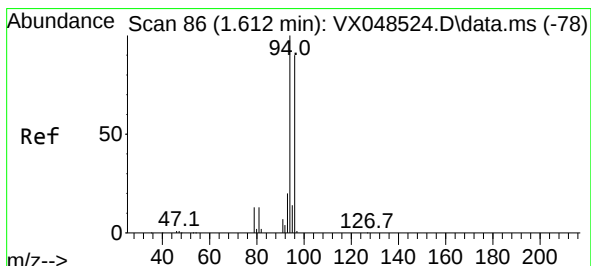
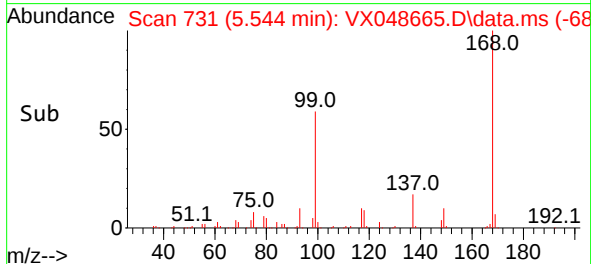
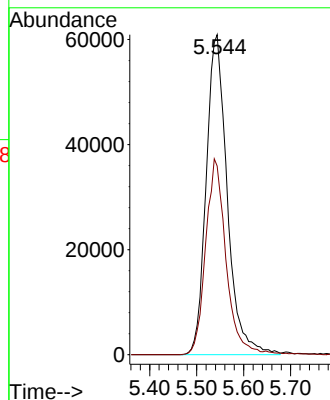
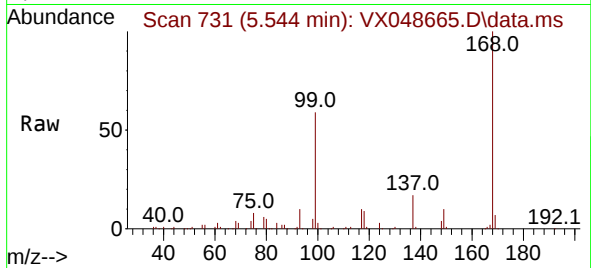
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

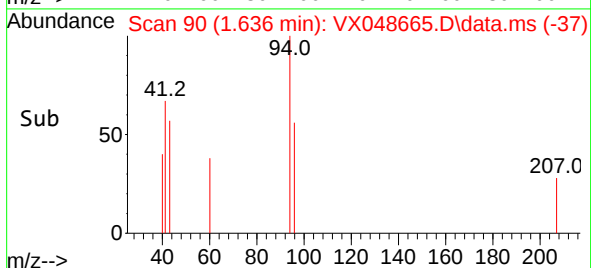
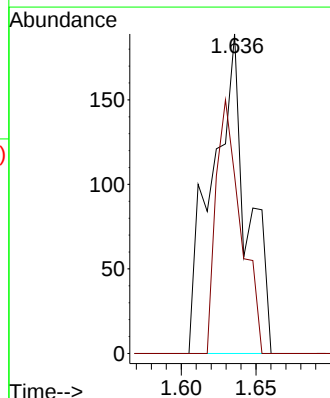
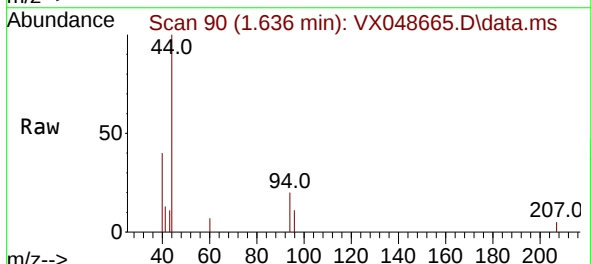
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

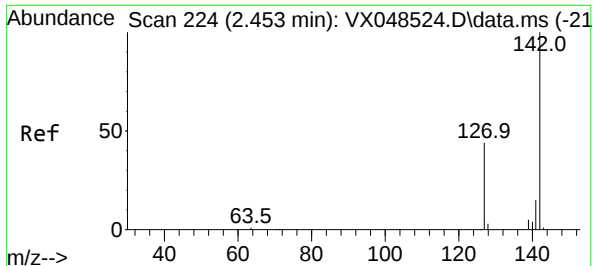
Tgt Ion:168 Resp: 189391
Ion Ratio Lower Upper
168 100
99 59.0 45.2 67.8



#5
Bromomethane
Concen: 0.212 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.024 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 94 Resp: 309
Ion Ratio Lower Upper
94 100
96 55.6 72.3 108.5#

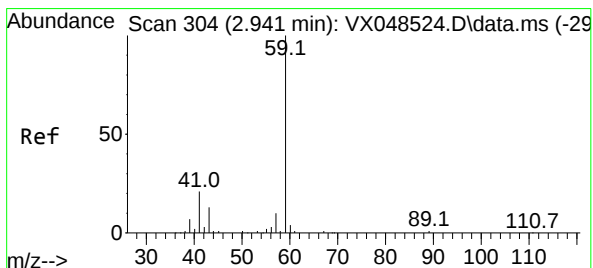
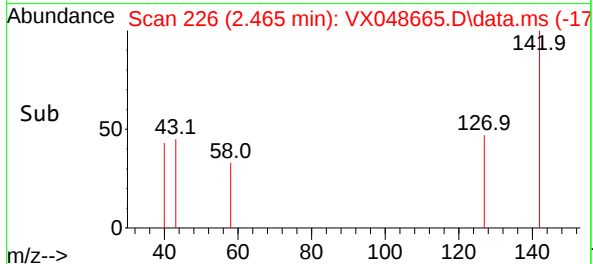
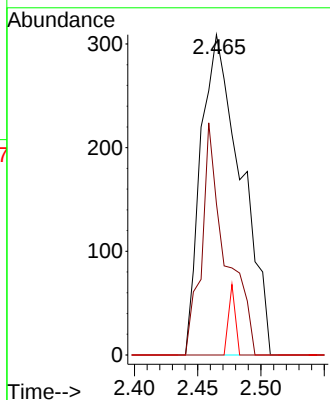
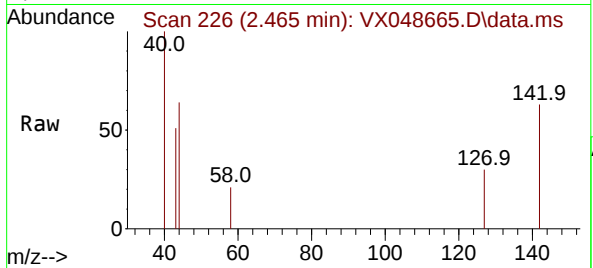




#10
Methyl Iodide
Concen: 0.218 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

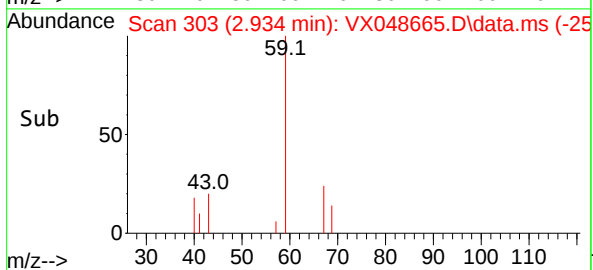
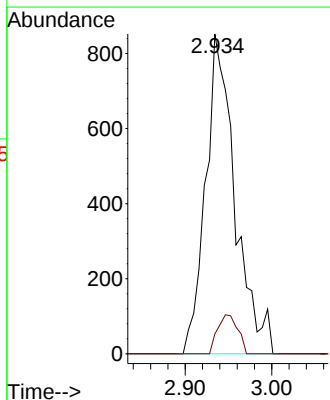
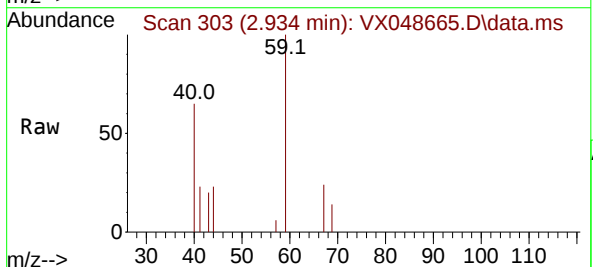
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

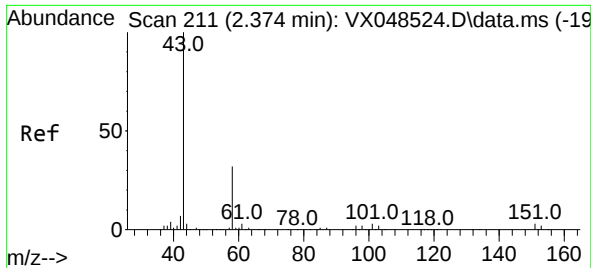
Tgt Ion:142 Resp: 681
Ion Ratio Lower Upper
142 100
127 43.2 35.8 53.6
141 3.7 11.4 17.0#



#11
Tert butyl alcohol
Concen: 4.012 ug/l
RT: 2.934 min Scan# 303
Delta R.T. -0.006 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 59 Resp: 2006
Ion Ratio Lower Upper
59 100
57 8.4 8.6 13.0#

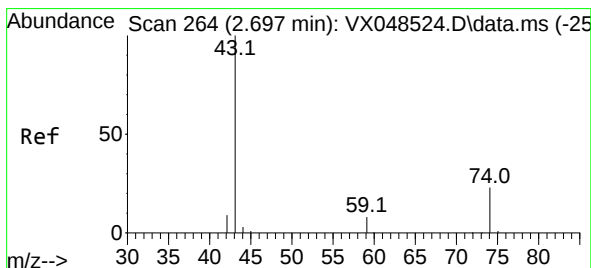
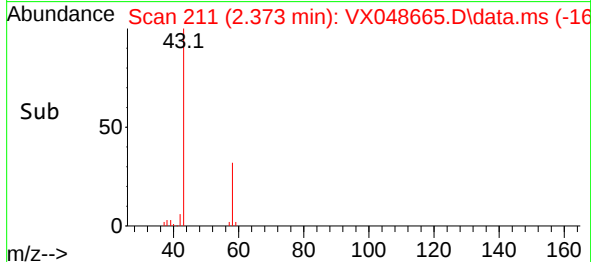
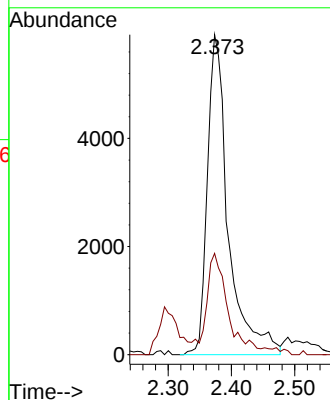
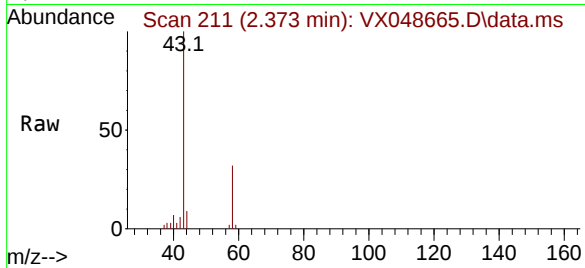




#16
Acetone
Concen: 10.861 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

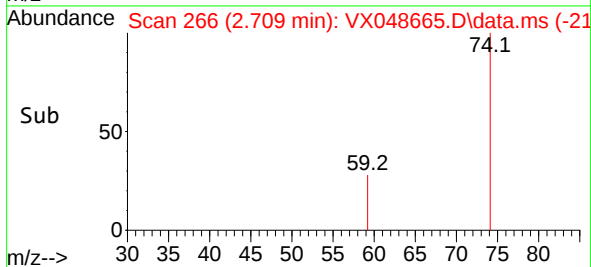
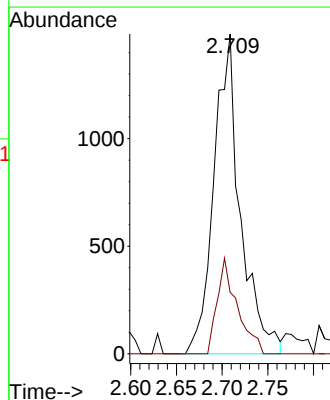
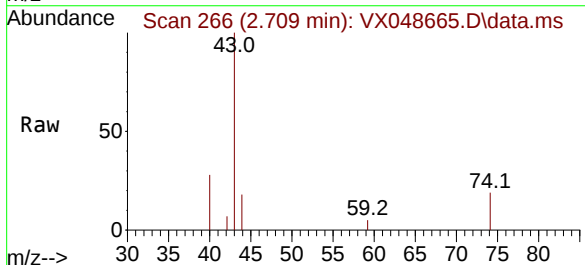
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

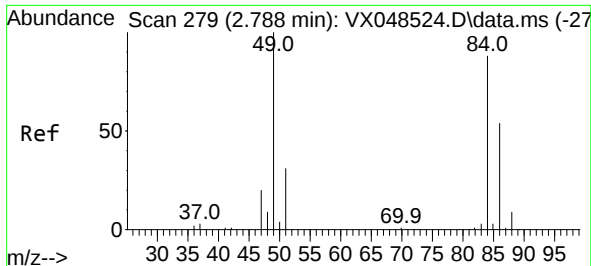
Tgt Ion: 43 Resp: 13567
Ion Ratio Lower Upper
43 100
58 30.6 25.8 38.6



#18
Methyl Acetate
Concen: 0.869 ug/l
RT: 2.709 min Scan# 266
Delta R.T. 0.012 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 43 Resp: 2983
Ion Ratio Lower Upper
43 100
74 22.8 19.1 28.7





#20

Methylene Chloride

Concen: 3.538 ug/l

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX048665.D

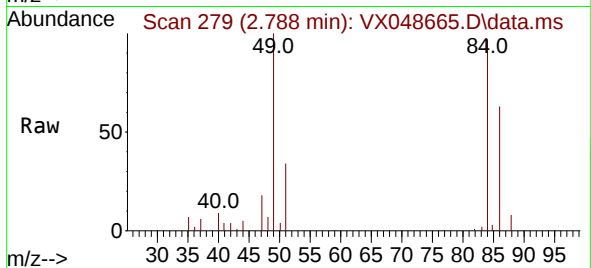
Acq: 24 Nov 2025 15:48

Instrument :

MSVOA_X

ClientSampleId :

RBR200028-RT5376-COMP



Tgt Ion: 84 Resp: 9087

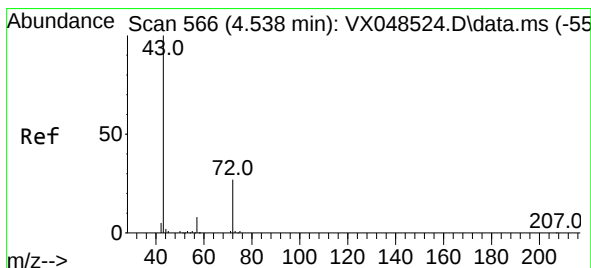
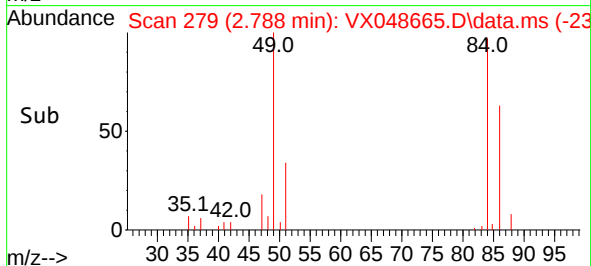
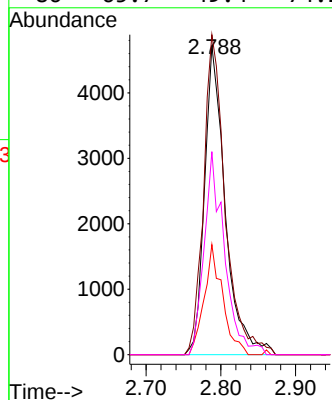
Ion Ratio Lower Upper

84 100

49 103.5 91.2 136.8

51 35.6 28.3 42.5

86 65.7 49.4 74.2



#25

2-Butanone

Concen: 7.310 ug/l

RT: 4.550 min Scan# 568

Delta R.T. 0.012 min

Lab File: VX048665.D

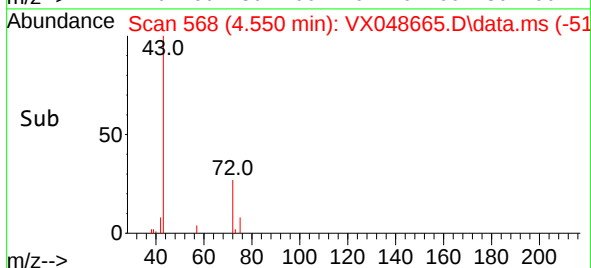
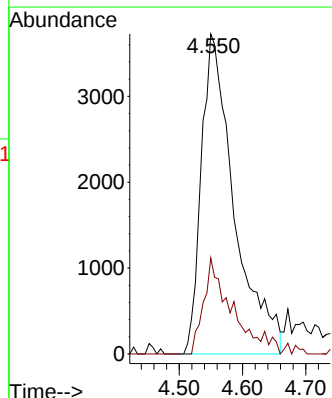
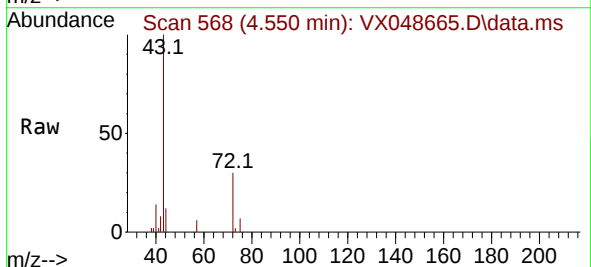
Acq: 24 Nov 2025 15:48

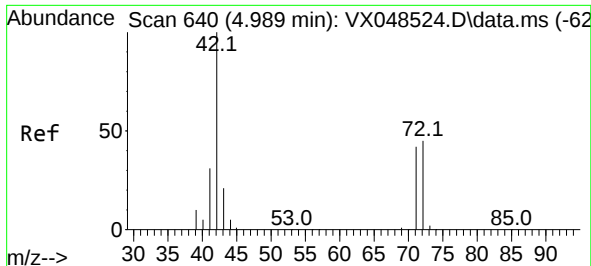
Tgt Ion: 43 Resp: 13508

Ion Ratio Lower Upper

43 100

72 30.0 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.276 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX048665.D

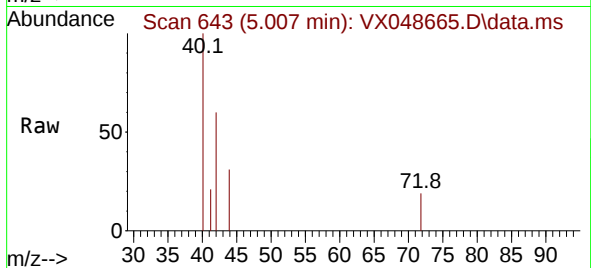
Acq: 24 Nov 2025 15:48

Instrument :

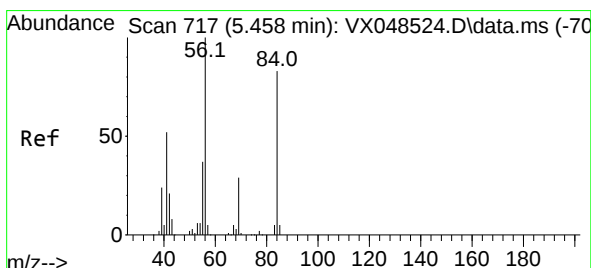
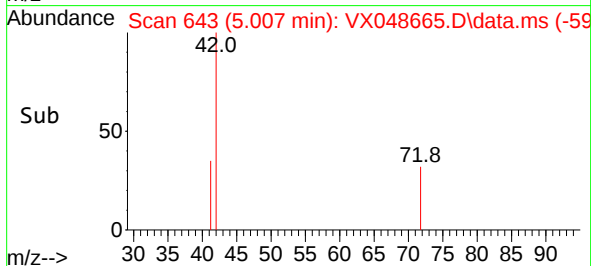
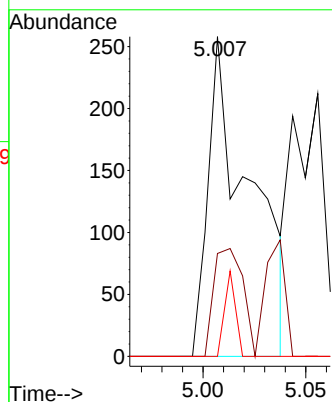
MSVOA_X

ClientSampleId :

RBR200028-RT5376-COMP



Tgt Ion:	42	Resp:	364
Ion Ratio	Lower	Upper	
42	100		
72	23.6	36.3	54.5#
71	6.9	34.1	51.1#



#31

Cyclohexane

Concen: 1.171 ug/l

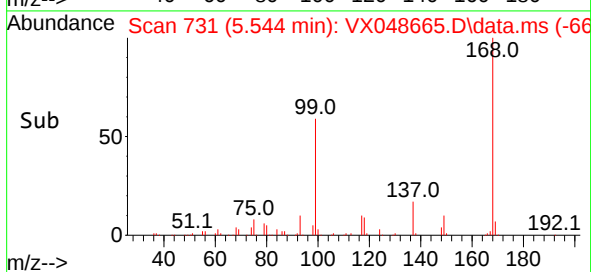
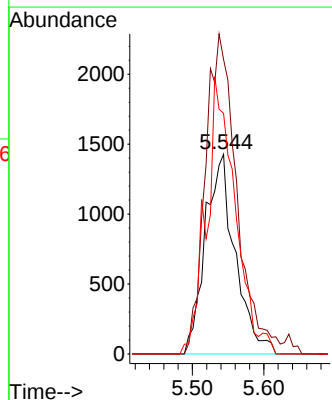
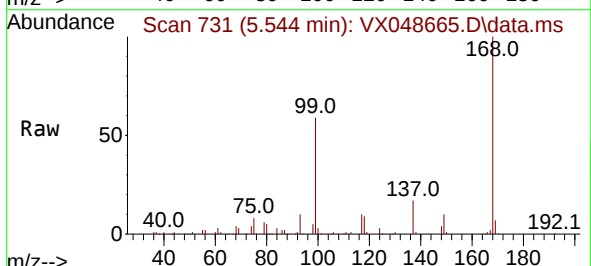
RT: 5.544 min Scan# 731

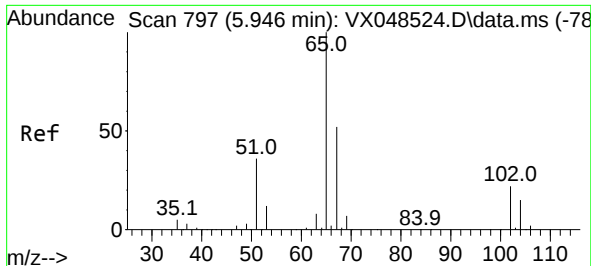
Delta R.T. 0.085 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

Tgt Ion:	56	Resp:	4148
Ion Ratio	Lower	Upper	
56	100		
69	147.5	23.4	35.2#
84	120.5	66.3	99.5#

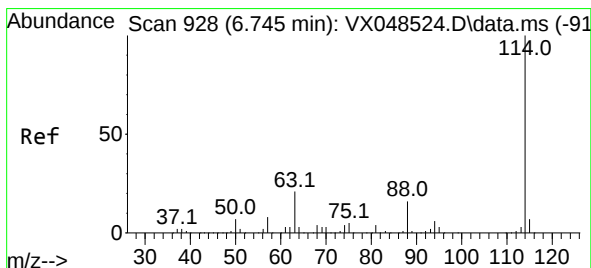
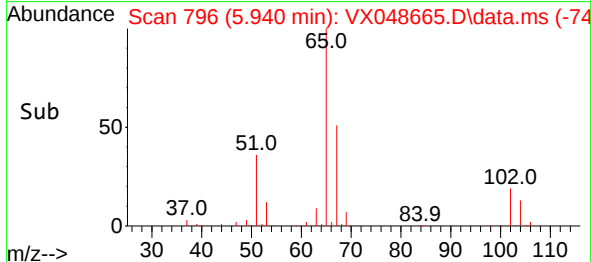
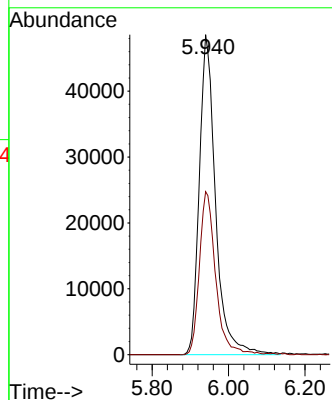
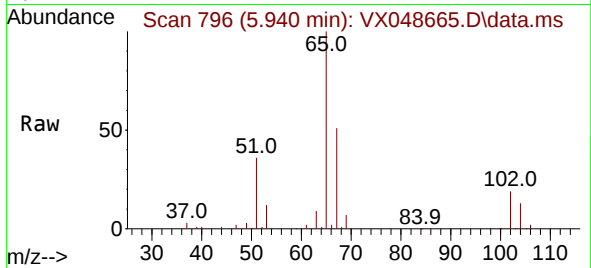




#33
 1,2-Dichloroethane-d4
 Concen: 54.196 ug/l
 RT: 5.940 min Scan# 797
 Delta R.T. -0.006 min
 Lab File: VX048665.D
 Acq: 24 Nov 2025 15:48

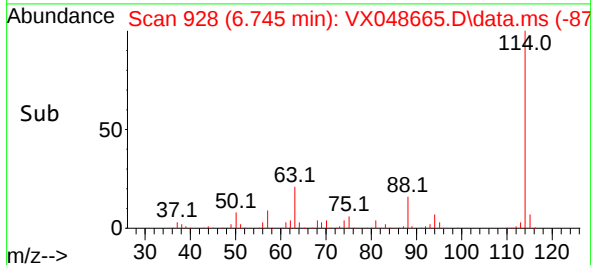
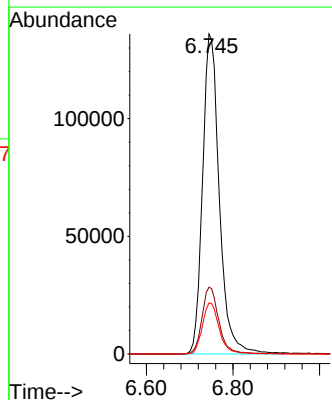
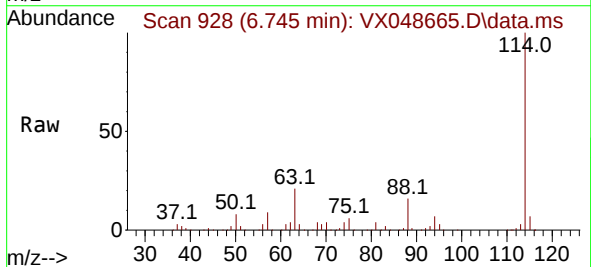
Instrument :
 MSVOA_X
 ClientSampleId :
 RBR200028-RT5376-COMP

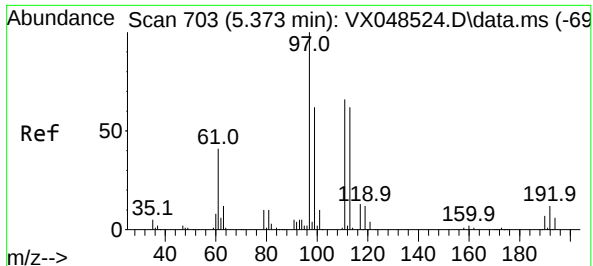
Tgt Ion: 65 Resp: 143025
 Ion Ratio Lower Upper
 65 100
 67 51.0 0.0 106.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048665.D
 Acq: 24 Nov 2025 15:48

Tgt Ion: 114 Resp: 365083
 Ion Ratio Lower Upper
 114 100
 63 20.9 0.0 41.2
 88 16.0 0.0 32.2





#35

Dibromofluoromethane

Concen: 46.371 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX048665.D

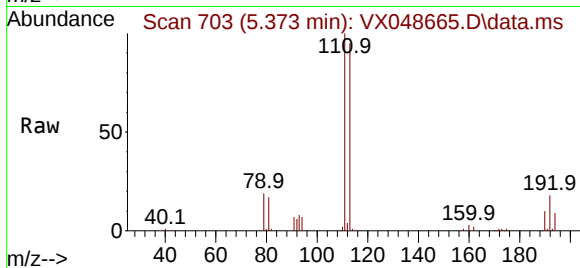
Acq: 24 Nov 2025 15:48

Instrument :

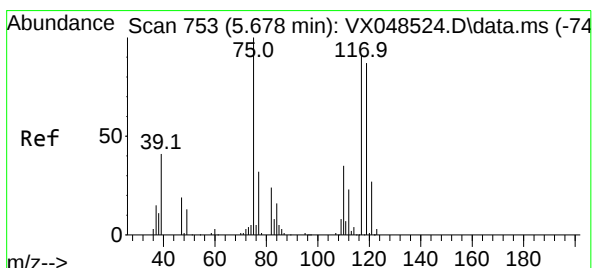
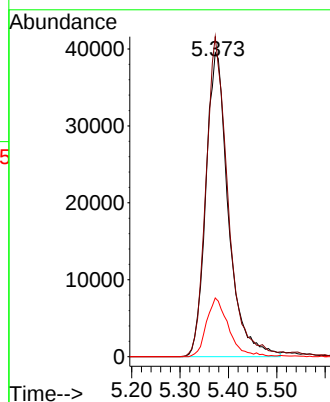
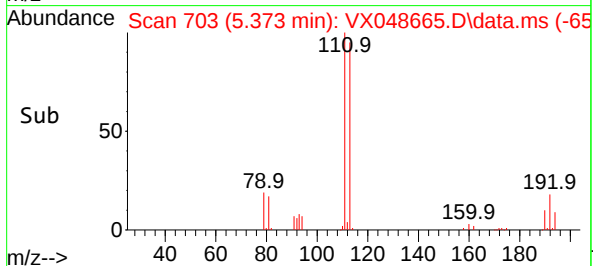
MSVOA_X

ClientSampleId :

RBR200028-RT5376-COMP



Tgt Ion:	113	Resp:	128132
Ion	Ratio	Lower	Upper
113	100		
111	103.2	81.9	122.9
192	19.0	15.8	23.6



#36

1,1-Dichloropropene

Concen: 4.112 ug/l

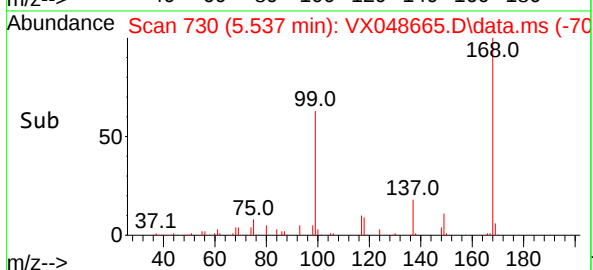
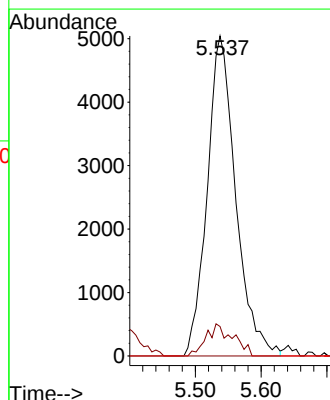
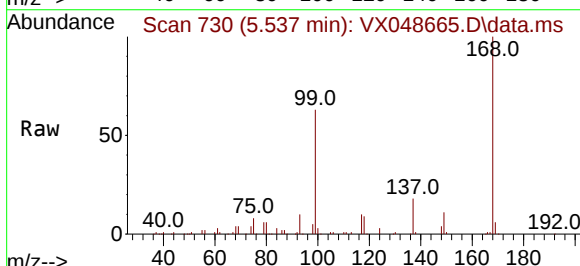
RT: 5.537 min Scan# 730

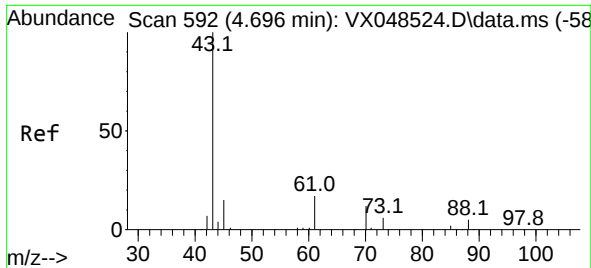
Delta R.T. -0.140 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

Tgt Ion:	75	Resp:	15214
Ion	Ratio	Lower	Upper
75	100		
110	9.4	18.4	55.4#
77	0.0	24.6	37.0#





#37

Ethyl Acetate

Concen: 2.594 ug/l

RT: 4.550 min Scan# 5

Delta R.T. -0.147 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

Instrument :

MSVOA_X

ClientSampleId :

RBR200028-RT5376-COMP

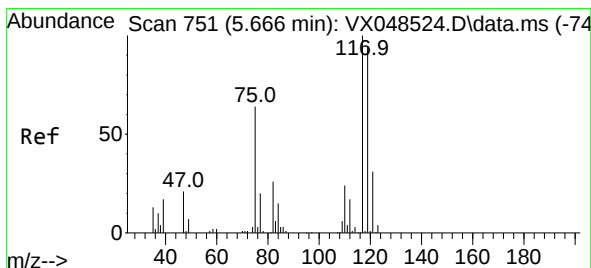
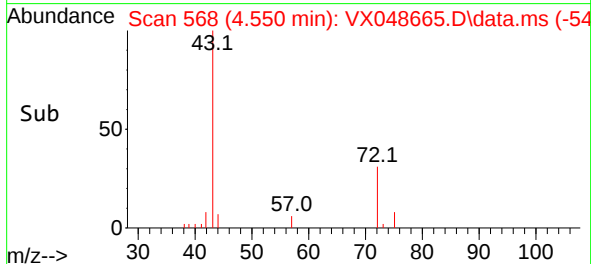
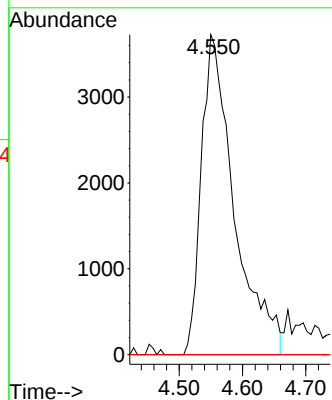
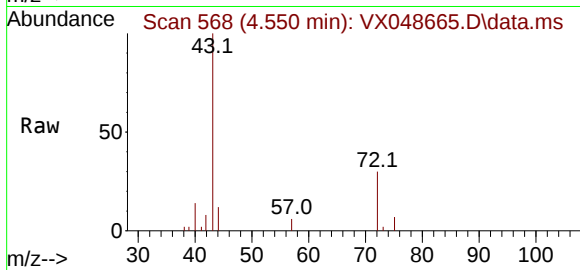
Tgt Ion: 43 Resp: 13508

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.7 11.5#



#38

Carbon Tetrachloride

Concen: 4.620 ug/l

RT: 5.537 min Scan# 730

Delta R.T. -0.128 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

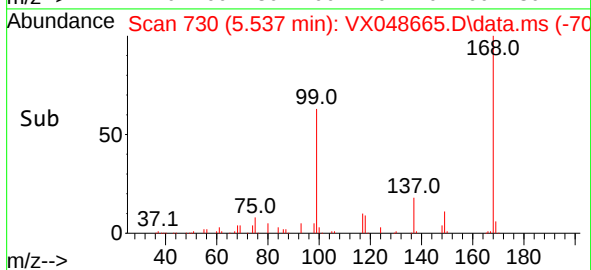
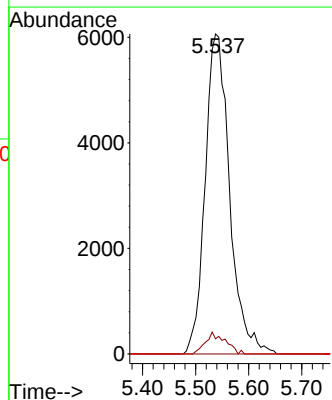
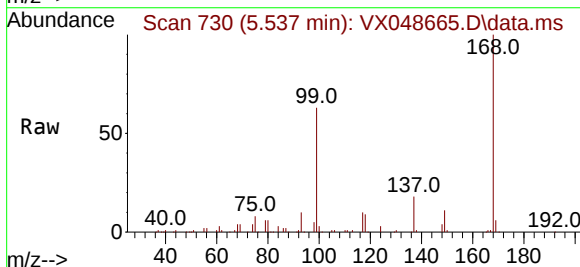
Tgt Ion: 117 Resp: 19461

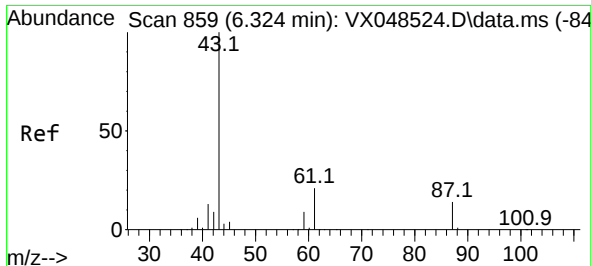
Ion Ratio Lower Upper

117 100

119 4.8 74.5 111.7#

121 0.0 24.8 37.2#

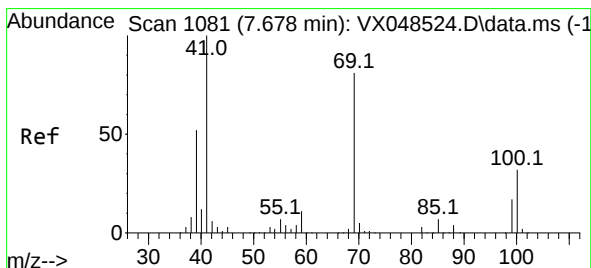
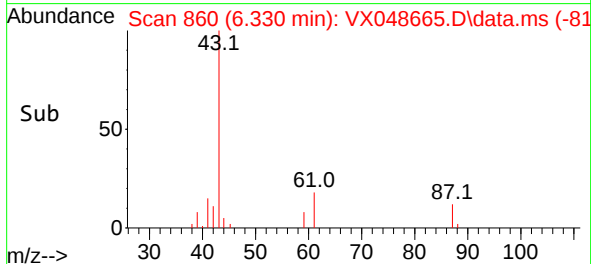
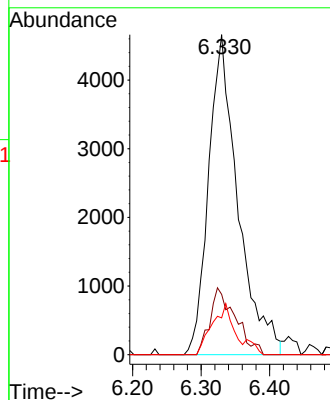
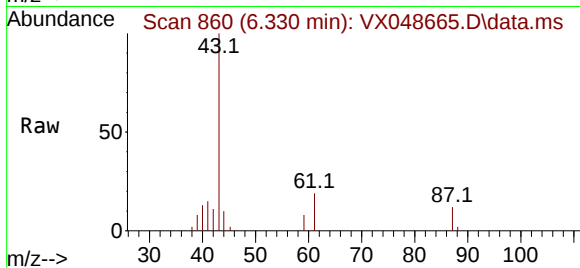




#43
Isopropyl Acetate
Concen: 1.889 ug/l
RT: 6.330 min Scan# 81
Delta R.T. 0.006 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

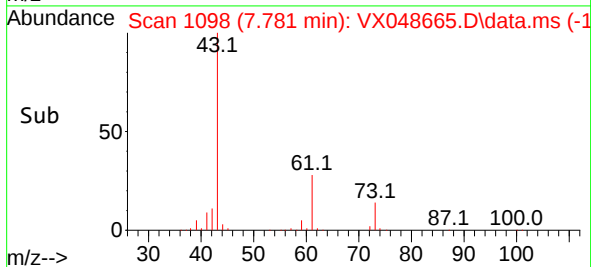
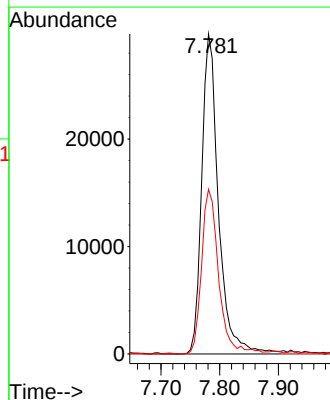
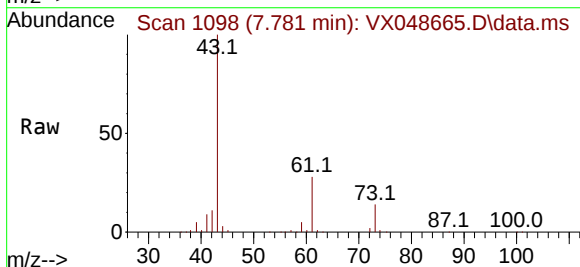
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

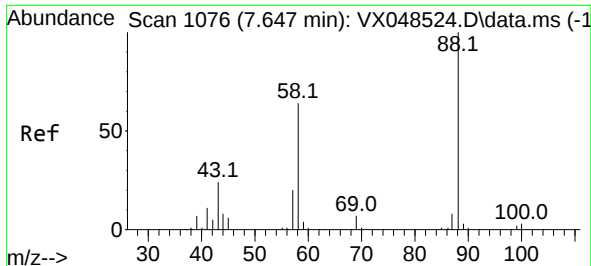
Tgt Ion:	43	Resp:	13830
Ion	Ratio	Lower	Upper
43	100		
61	18.3	16.2	24.4
87	11.4	10.9	16.3



#48
Methyl methacrylate
Concen: 18.077 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.103 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion:	41	Resp:	58834
Ion	Ratio	Lower	Upper
41	100		
69	0.0	67.9	101.9#
39	52.5	42.2	63.2





#49

1,4-Dioxane

Concen: 0.464 ug/l

RT: 7.787 min Scan# 1076

Delta R.T. 0.140 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

Instrument :

MSVOA_X

ClientSampleId :

RBR200028-RT5376-COMP

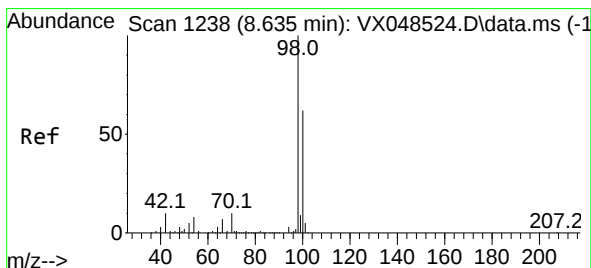
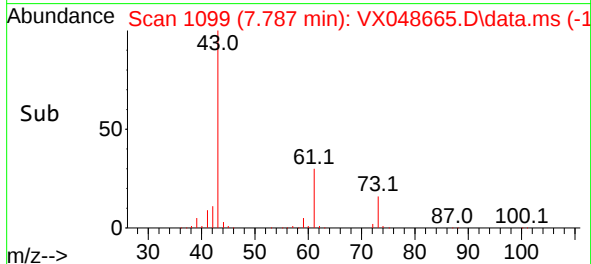
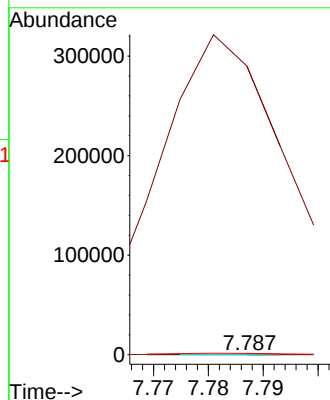
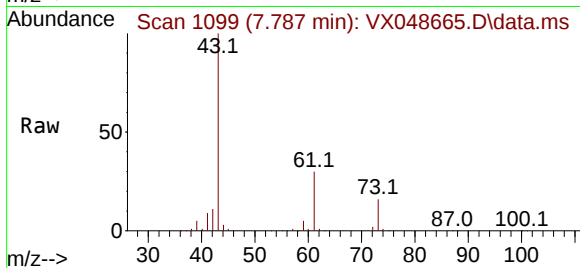
Tgt Ion: 88 Resp: 23

Ion Ratio Lower Upper

88 100

43 2673704.3 25.1 37.7#

58 12517.4 56.7 85.1#



#50

Toluene-d8

Concen: 50.131 ug/l

RT: 8.634 min Scan# 1238

Delta R.T. -0.000 min

Lab File: VX048665.D

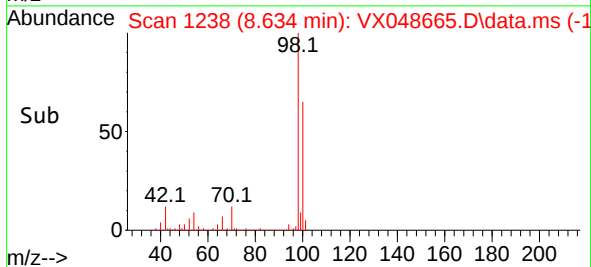
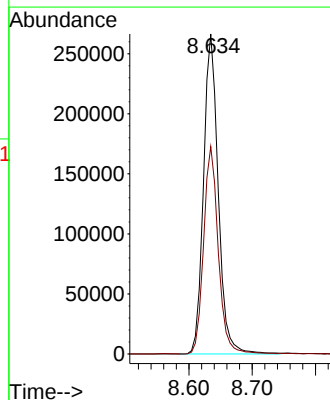
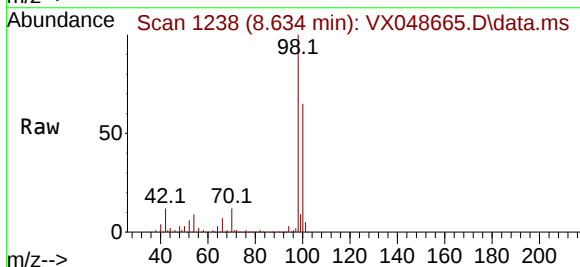
Acq: 24 Nov 2025 15:48

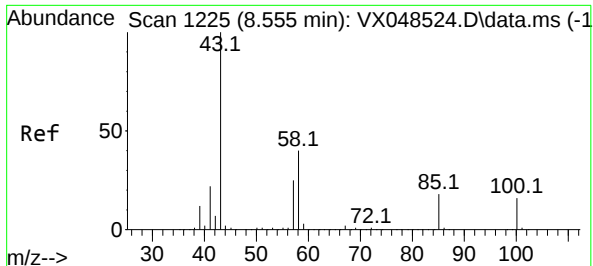
Tgt Ion: 98 Resp: 432022

Ion Ratio Lower Upper

98 100

100 64.4 53.6 80.4

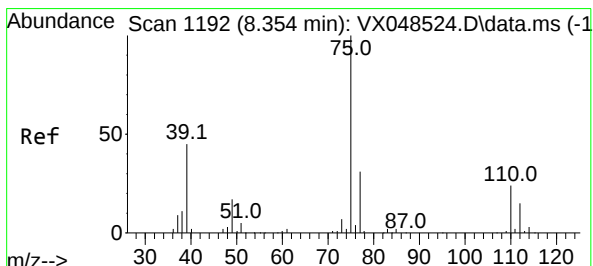
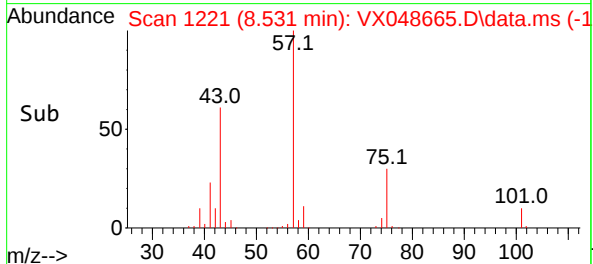
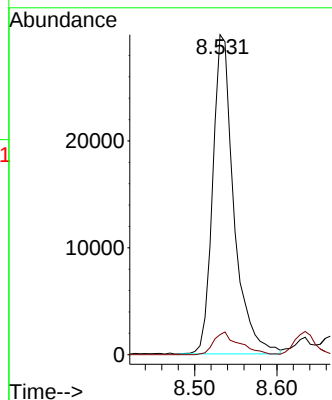
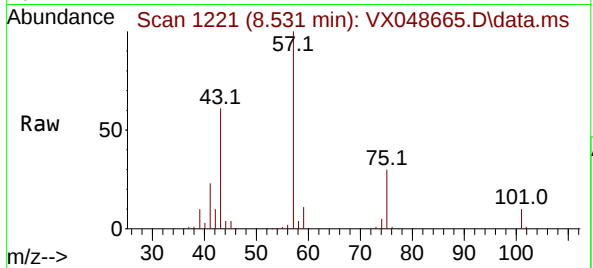




#51
4-Methyl-2-Pentanone
Concen: 12.820 ug/l
RT: 8.531 min Scan# 11
Delta R.T. -0.025 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

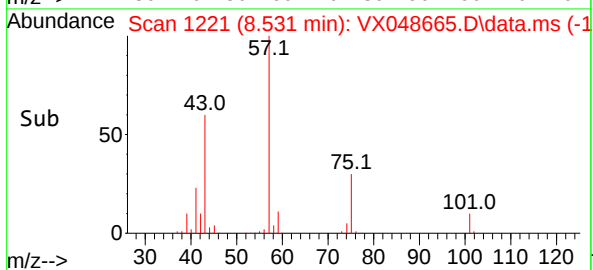
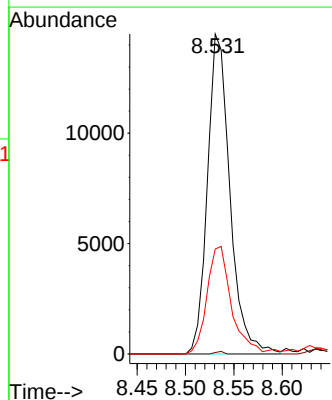
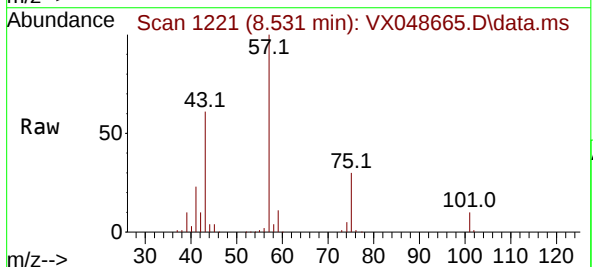
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

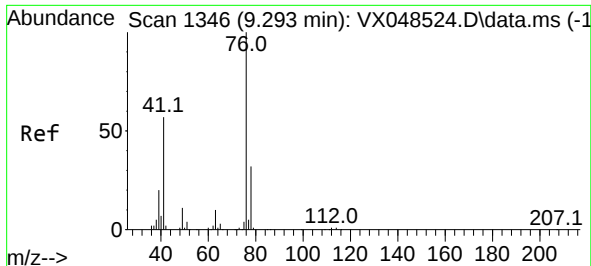
Tgt Ion: 43 Resp: 53427
Ion Ratio Lower Upper
43 100
58 8.6 32.3 48.5#



#54
cis-1,3-Dichloropropene
Concen: 5.734 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. 0.177 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 75 Resp: 23477
Ion Ratio Lower Upper
75 100
77 0.5 24.7 37.1#
39 32.8 36.1 54.1#





#57

1,3-Dichloropropane

Concen: 0.491 ug/l

RT: 9.470 min Scan# 11

Delta R.T. 0.176 min

Lab File: VX048665.D

Acq: 24 Nov 2025 15:48

Instrument :

MSVOA_X

ClientSampleId :

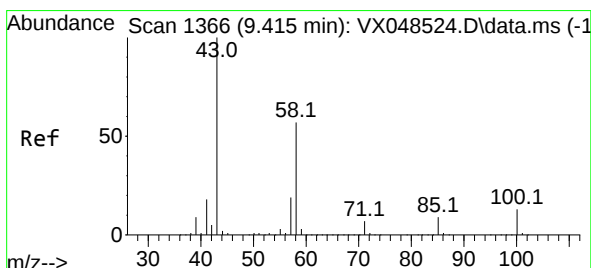
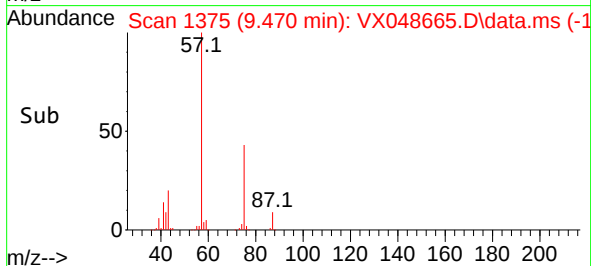
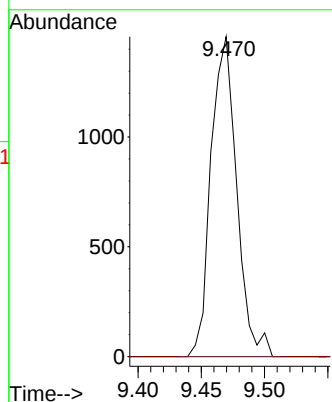
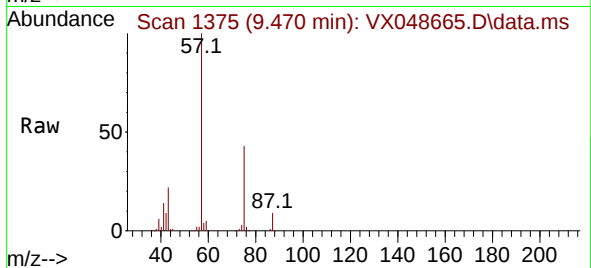
RBR200028-RT5376-COMP

Tgt Ion: 76 Resp: 2062

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.2#



#59

2-Hexanone

Concen: 1.567 ug/l

RT: 9.421 min Scan# 1367

Delta R.T. 0.006 min

Lab File: VX048665.D

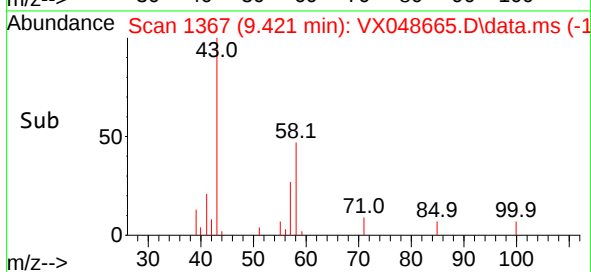
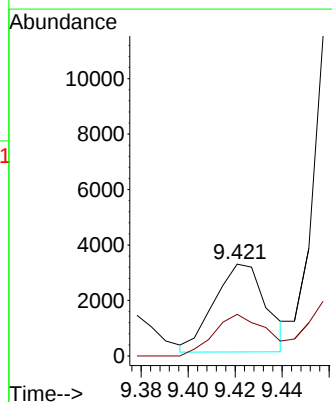
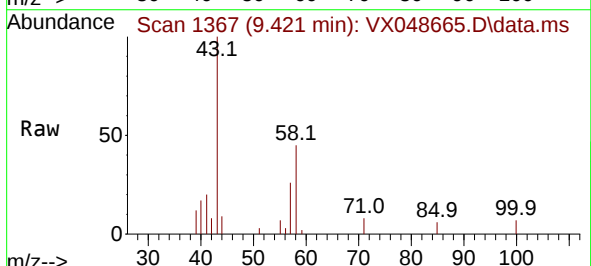
Acq: 24 Nov 2025 15:48

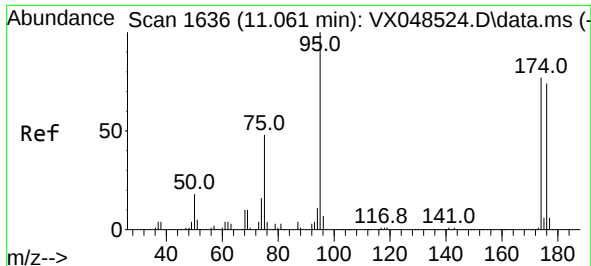
Tgt Ion: 43 Resp: 4859

Ion Ratio Lower Upper

43 100

58 47.5 28.1 84.2

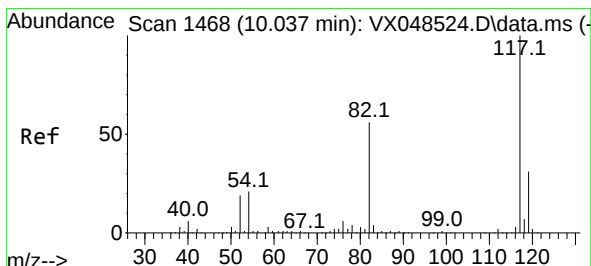
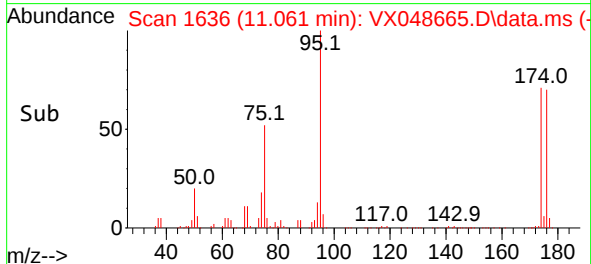
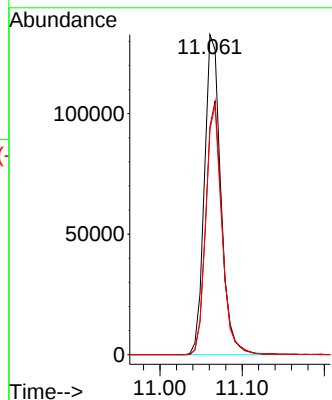
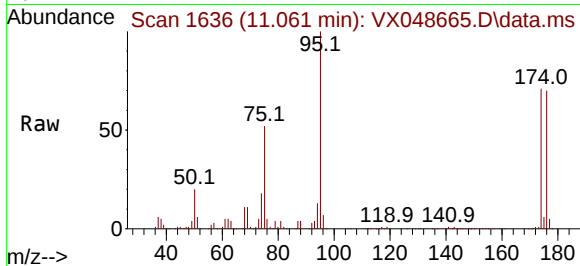




#62
4-Bromofluorobenzene
Concen: 57.078 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

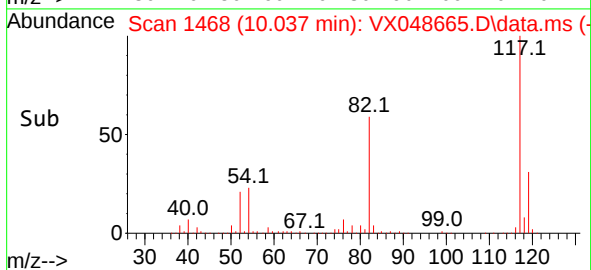
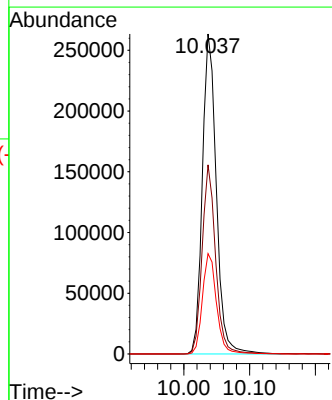
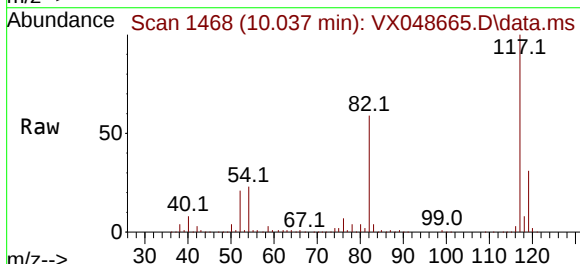
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

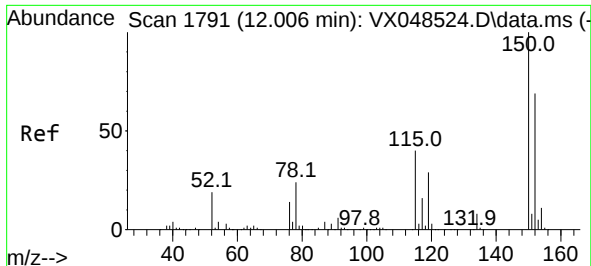
Tgt Ion: 95 Resp: 183313
Ion Ratio Lower Upper
95 100
174 78.4 0.0 161.8
176 76.9 0.0 153.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 117 Resp: 388926
Ion Ratio Lower Upper
117 100
82 59.1 44.4 66.6
119 31.4 25.1 37.7

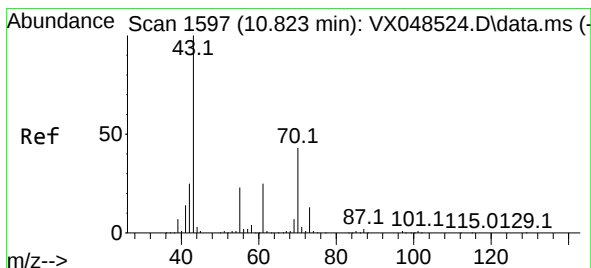
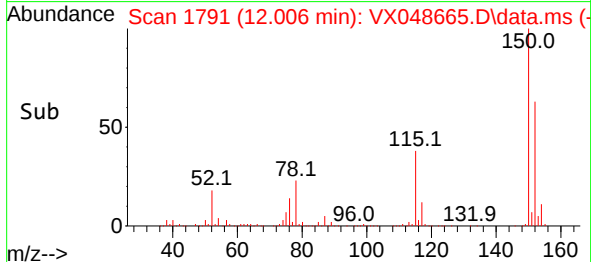
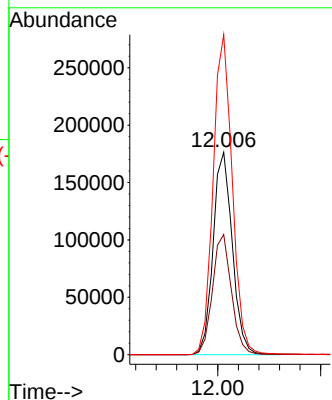
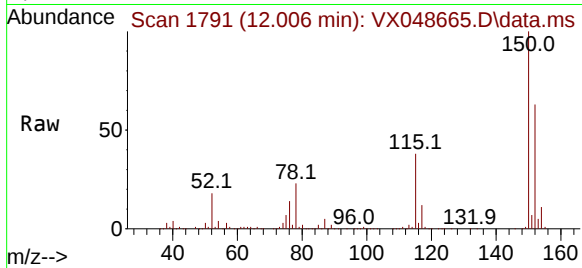




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

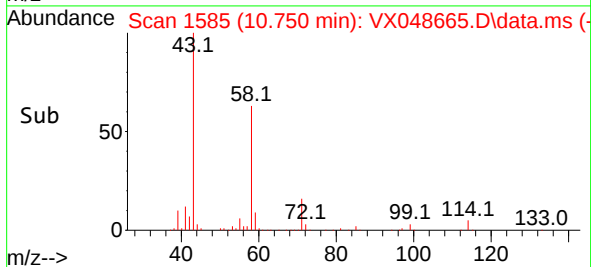
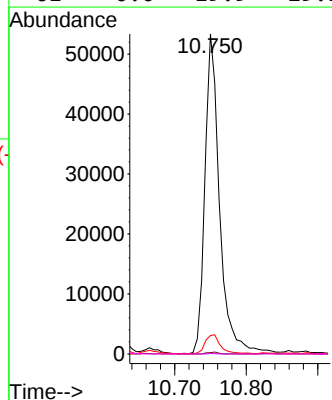
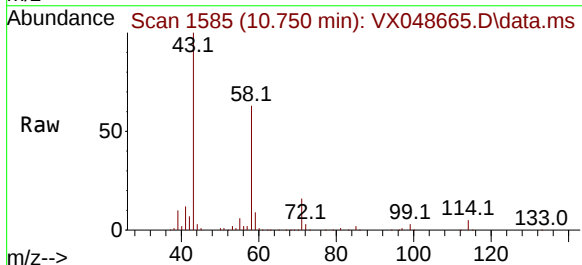
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

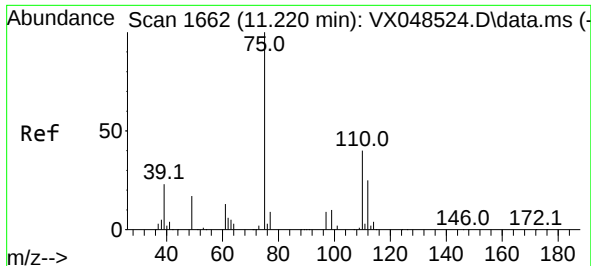
Tgt Ion:152 Resp: 228567
Ion Ratio Lower Upper
152 100
115 58.7 39.2 117.6
150 157.5 0.0 347.0



#74
N-ethyl acetate
Concen: 9.122 ug/l
RT: 10.750 min Scan# 1585
Delta R.T. -0.073 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Tgt Ion: 43 Resp: 75993
Ion Ratio Lower Upper
43 100
70 0.4 35.1 52.7#
55 6.1 19.3 28.9#
61 0.0 19.9 29.9#

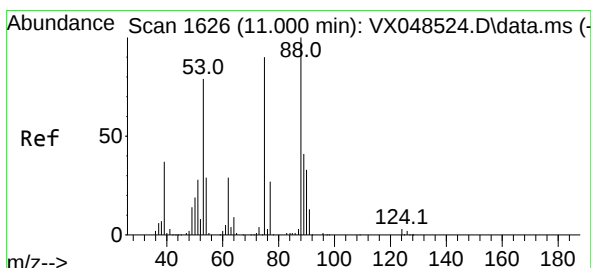
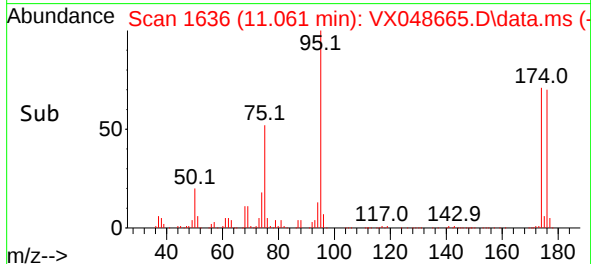
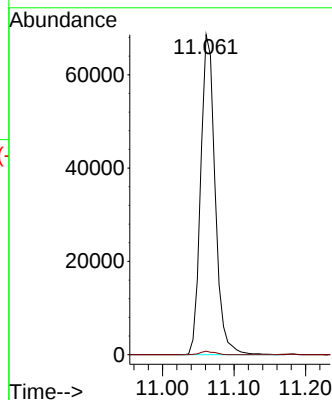
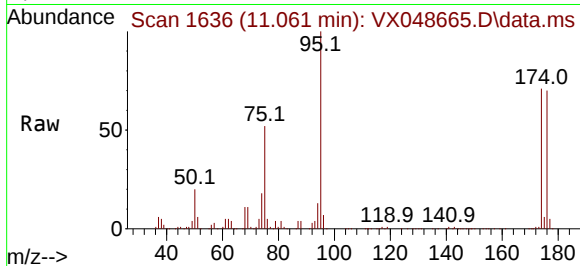




#76
1,2,3-Trichloropropane
Concen: 17.476 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

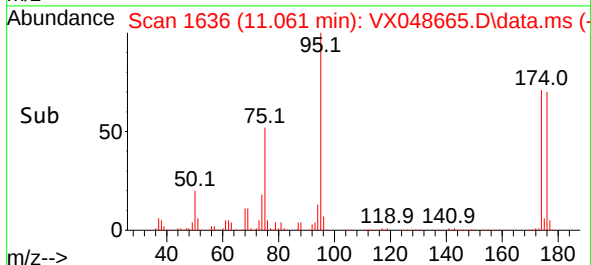
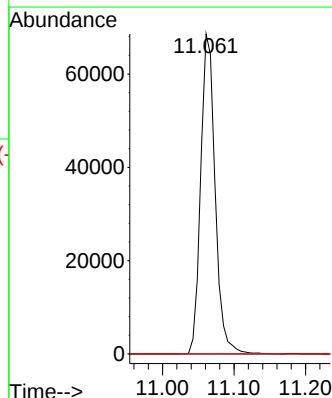
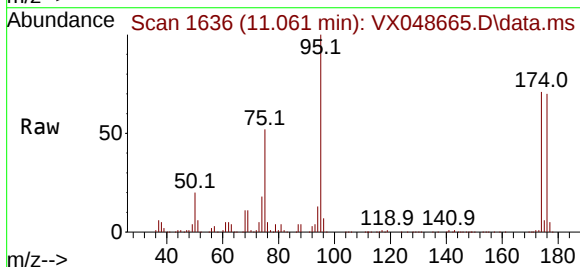
Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP

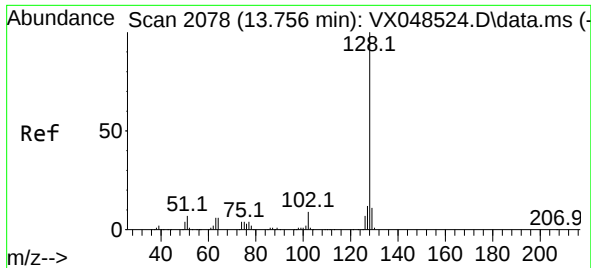
Tgt Ion: 75 Resp: 96231
Ion Ratio Lower Upper
75 100
77 1.1 24.3 72.8#



#81
trans-1,4-Dichloro-2-butene
Concen: 49.986 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

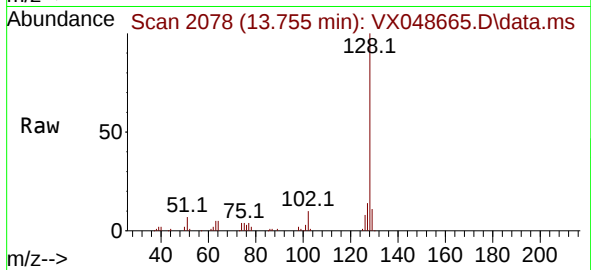
Tgt Ion: 75 Resp: 96231
Ion Ratio Lower Upper
75 100
53 0.0 72.4 108.6#
89 0.0 43.6 65.4#





#95
Naphthalene
Concen: 1.599 ug/l
RT: 13.755 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX048665.D
Acq: 24 Nov 2025 15:48

Instrument :
MSVOA_X
ClientSampleId :
RBR200028-RT5376-COMP



Tgt Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.1	15.1
129	11.0	8.7	13.1

