

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX100925\
 Data File : VX048078.D
 Acq On : 09 Oct 2025 12:10
 Operator : JC/MD
 Sample : Q3302-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 OR-658-COMP-01

Quant Time: Oct 10 01:20:20 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

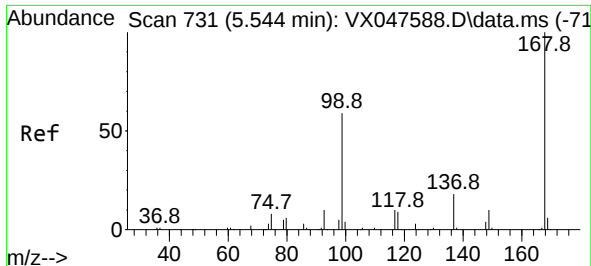
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	5.544	168	132703	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	277513	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	299302	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	149257	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	119554	56.599	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.200%
35) Dibromofluoromethane	5.373	113	94518	50.785	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	101.560%
50) Toluene-d8	8.634	98	321467	49.918	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	99.840%
62) 4-Bromofluorobenzene	11.061	95	141446	57.873	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	115.740%
Target Compounds						
					Qvalue	
5) Bromomethane	1.630	94	229	0.204	ug/l #	73
10) Methyl Iodide	2.465	142	847	0.354	ug/l #	79
11) Tert butyl alcohol	2.946	59	261	1.109	ug/l #	72
16) Acetone	2.373	43	35884	39.071	ug/l	100
18) Methyl Acetate	2.703	43	3877	1.897	ug/l	91
20) Methylene Chloride	2.788	84	6260	3.220	ug/l	98
29) Tetrahydrofuran	5.038	42	361	0.524	ug/l #	34
31) Cyclohexane	5.537	56	2923	1.047	ug/l #	14
36) 1,1-Dichloropropene	5.544	75	11214	4.123	ug/l #	43
37) Ethyl Acetate	4.714	43	1108	0.381	ug/l #	71
38) Carbon Tetrachloride	5.537	117	14468	4.896	ug/l #	18
43) Isopropyl Acetate	6.336	43	7570	1.585	ug/l #	92
48) Methyl methacrylate	7.787	41	18806	7.906	ug/l #	49
51) 4-Methyl-2-Pentanone	8.531	43	49709	18.773	ug/l #	51
54) cis-1,3-Dichloropropene	8.531	75	21346	6.164	ug/l #	59
57) 1,3-Dichloropropane	9.470	76	754	0.224	ug/l #	42
59) 2-Hexanone	9.470	43	12729	6.693	ug/l #	53
76) 1,2,3-Trichloropropane	11.061	75	75057	24.837	ug/l #	40
81) trans-1,4-Dichloro-2-b...	11.061	75	75057	63.338	ug/l #	8
94) Hexachlorobutadiene	13.701	225	327	0.300	ug/l	88

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

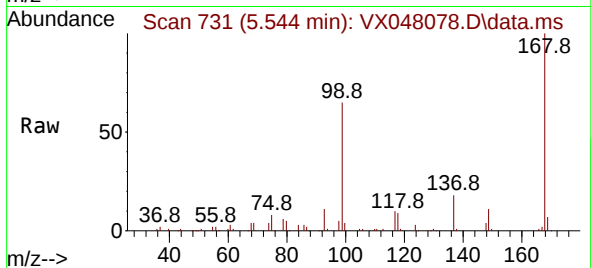
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Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration



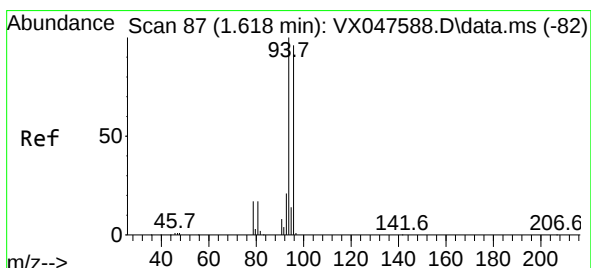
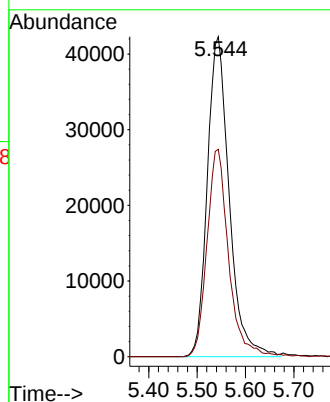
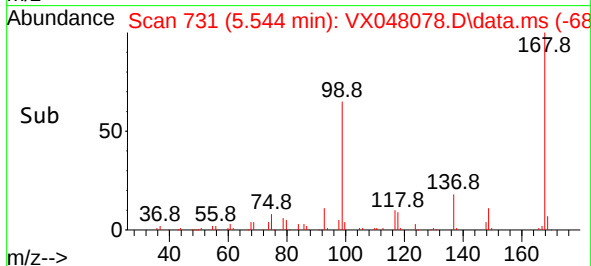


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

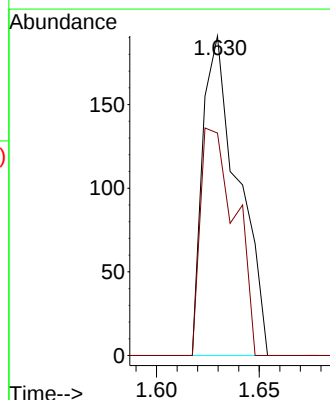
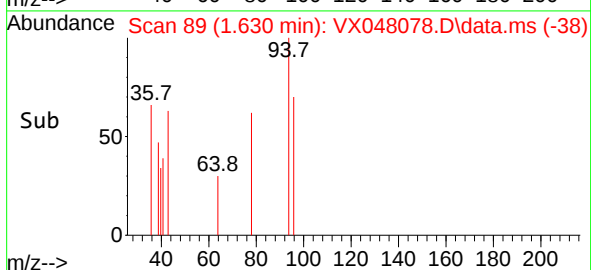
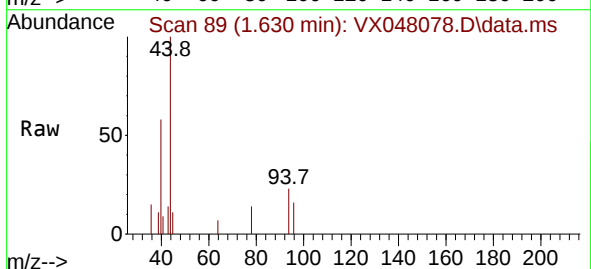


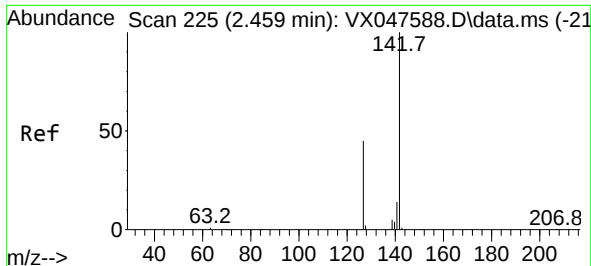
Tgt Ion:168 Resp: 132703
Ion Ratio Lower Upper
168 100
99 64.8 48.8 73.2



#5
Bromomethane
Concen: 0.204 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

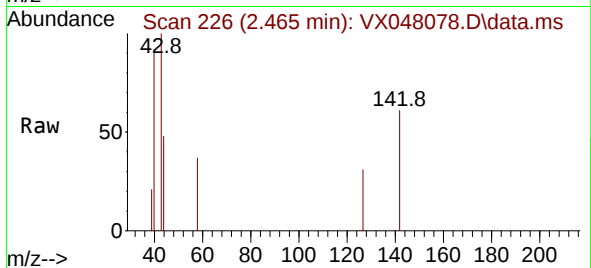
Tgt Ion: 94 Resp: 229
Ion Ratio Lower Upper
94 100
96 69.6 76.6 115.0#



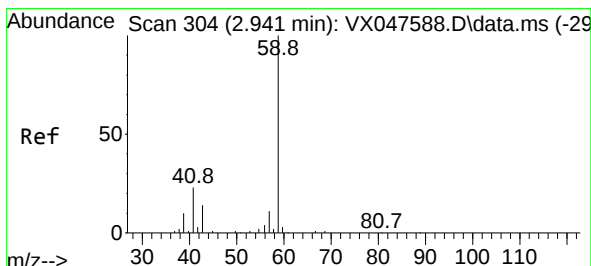
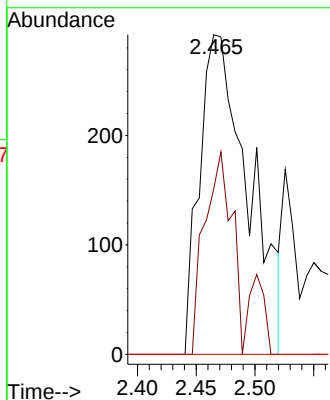
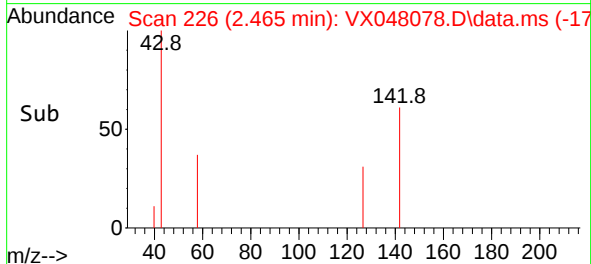


#10
Methyl Iodide
Concen: 0.354 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

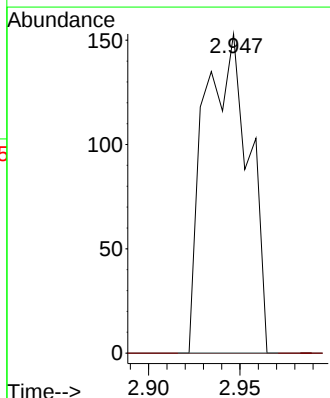
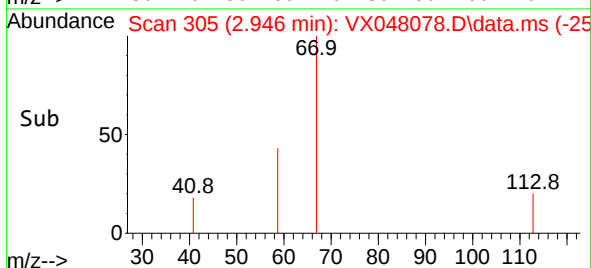
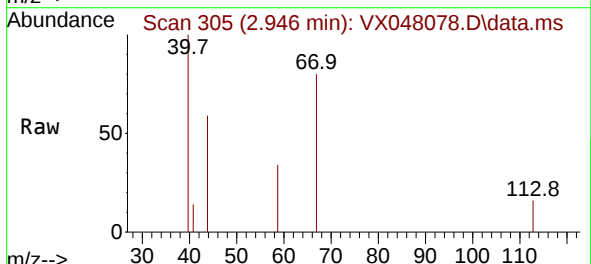


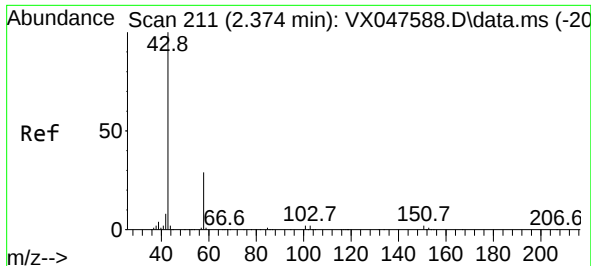
Tgt Ion:142 Resp: 847
Ion Ratio Lower Upper
142 100
127 35.4 37.2 55.8#
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.109 ug/l
RT: 2.946 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 59 Resp: 261
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

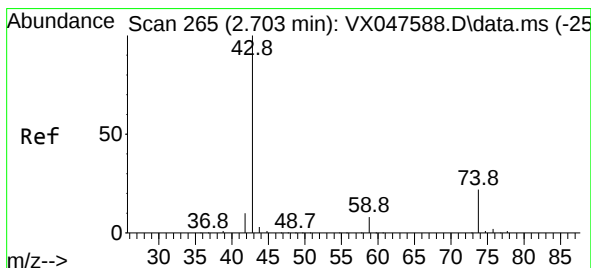
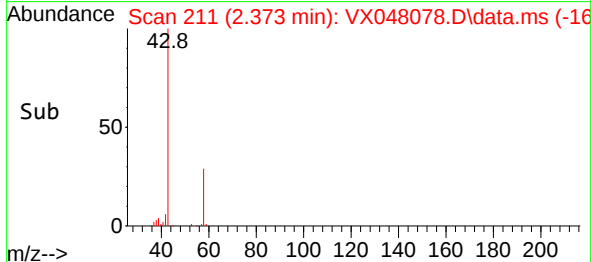
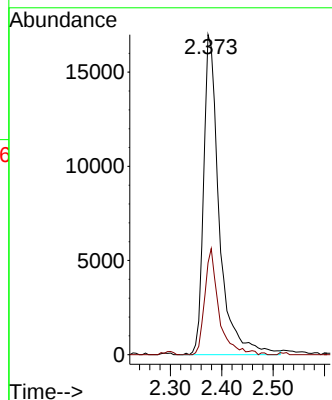
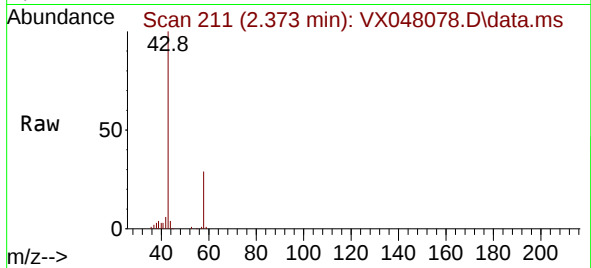




#16
Acetone
Concen: 39.071 ug/l
RT: 2.373 min Scan# 211
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

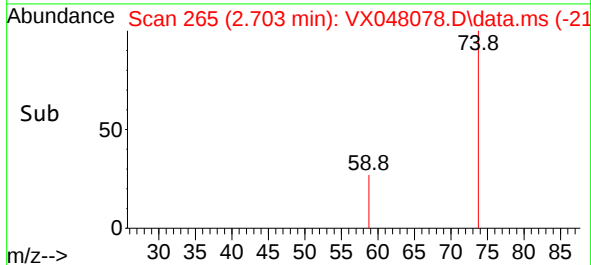
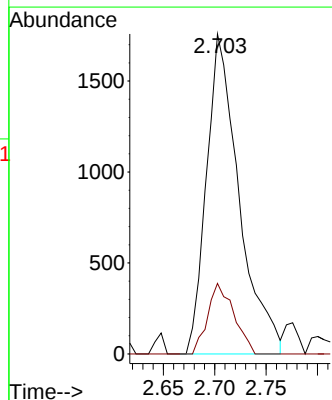
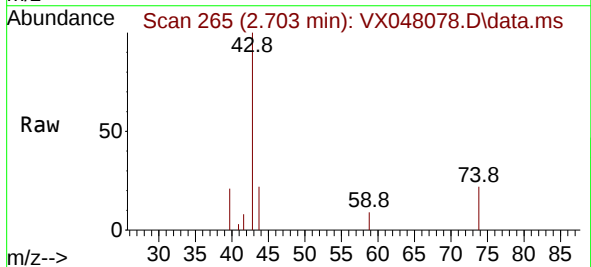
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

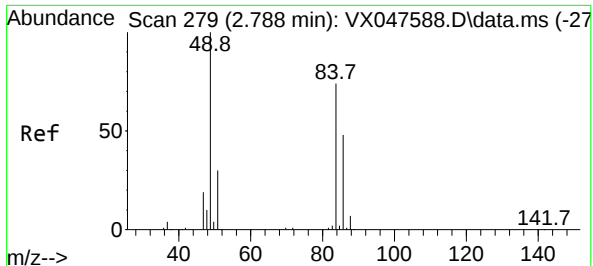
Tgt Ion: 43 Resp: 35884
Ion Ratio Lower Upper
43 100
58 29.4 23.4 35.0



#18
Methyl Acetate
Concen: 1.897 ug/l
RT: 2.703 min Scan# 265
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 43 Resp: 3877
Ion Ratio Lower Upper
43 100
74 17.7 17.4 26.2



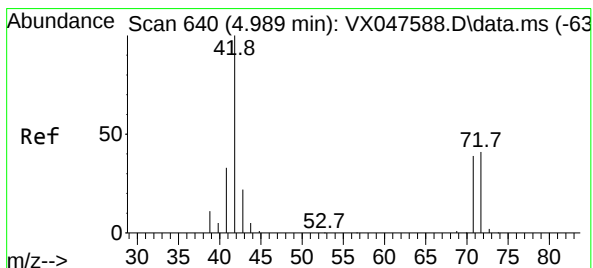
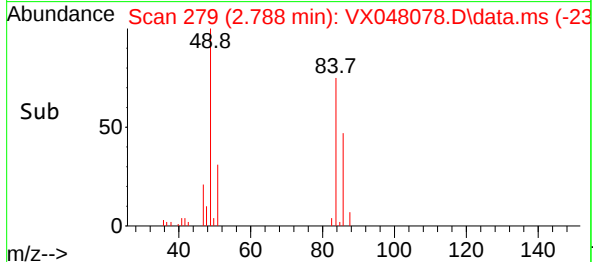
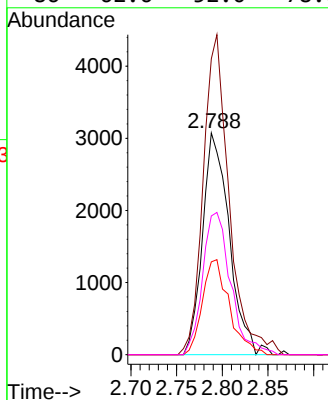
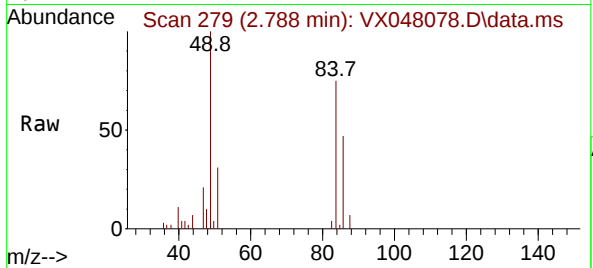


#20
Methylene Chloride
Concen: 3.220 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

Tgt Ion: 84 Resp: 6260

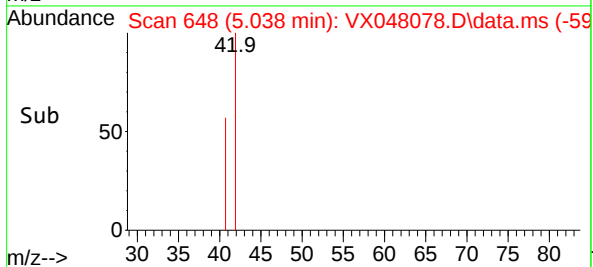
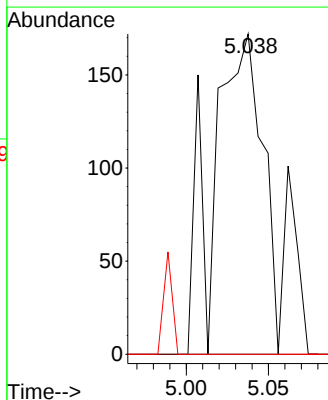
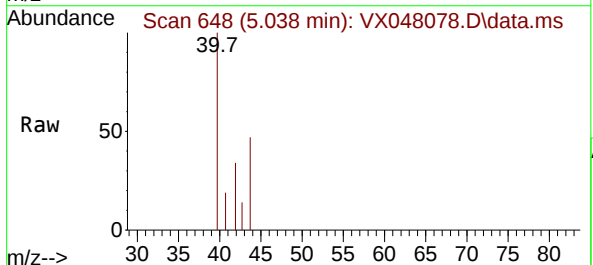
Ion	Ratio	Lower	Upper
84	100		
49	133.4	108.6	162.8
51	41.8	32.6	48.8
86	62.6	52.0	78.0

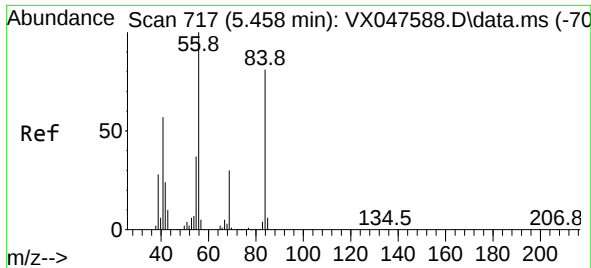


#29
Tetrahydrofuran
Concen: 0.524 ug/l
RT: 5.038 min Scan# 648
Delta R.T. 0.049 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 42 Resp: 361

Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.2	51.2#
71	0.0	31.9	47.9#

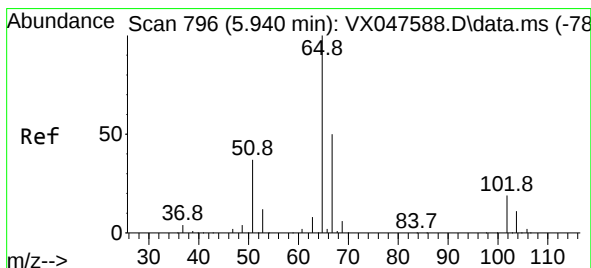
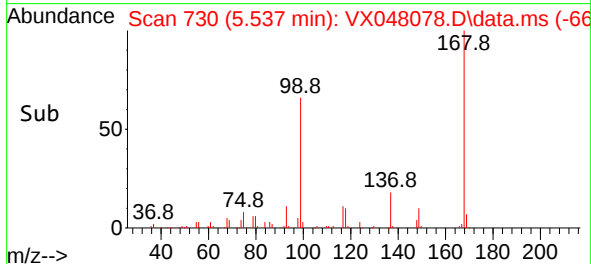
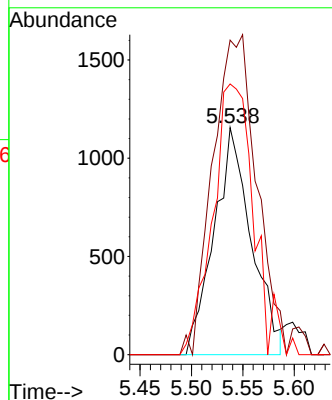
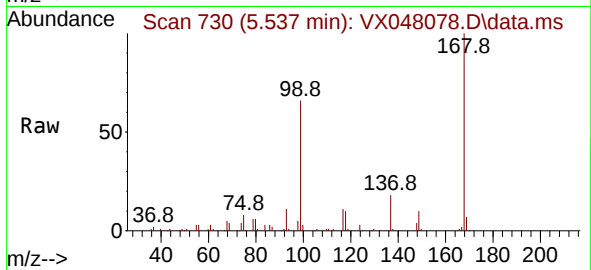




#31
Cyclohexane
Concen: 1.047 ug/l
RT: 5.537 min Scan# 717
Delta R.T. 0.079 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

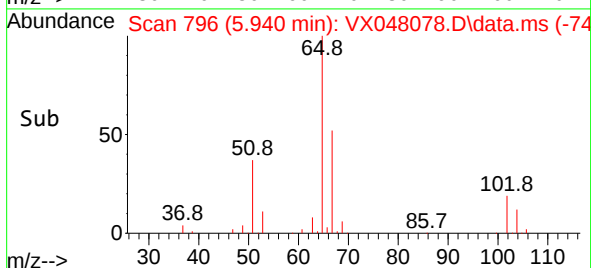
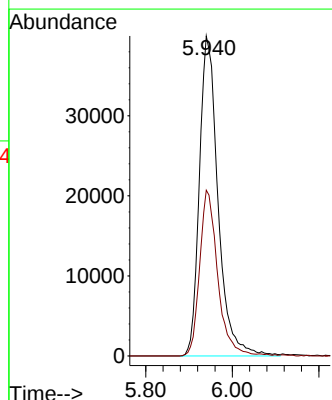
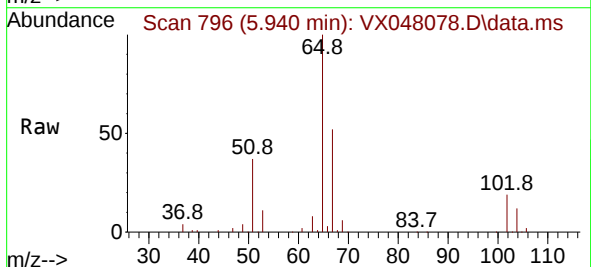
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

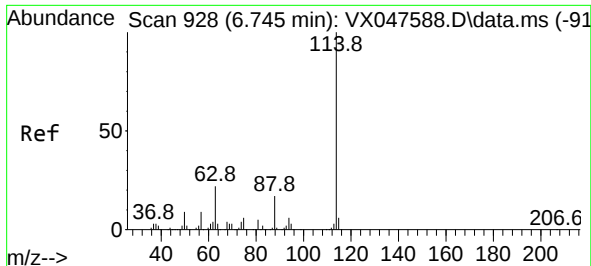
Tgt Ion: 56 Resp: 2923
Ion Ratio Lower Upper
56 100
69 138.5 23.8 35.8#
84 119.2 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.599 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 65 Resp: 119554
Ion Ratio Lower Upper
65 100
67 50.3 0.0 103.0

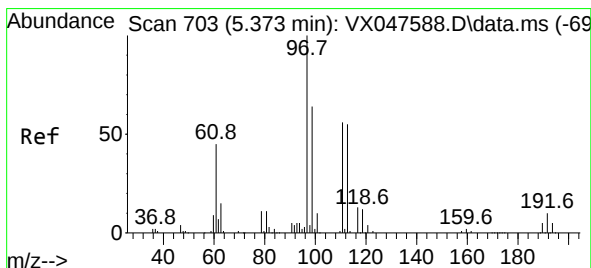
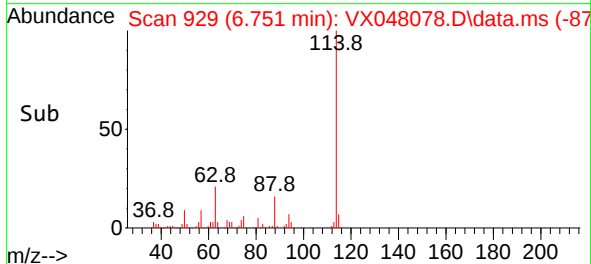
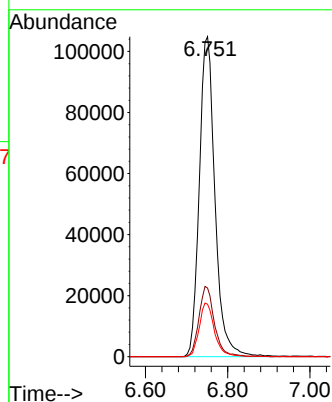
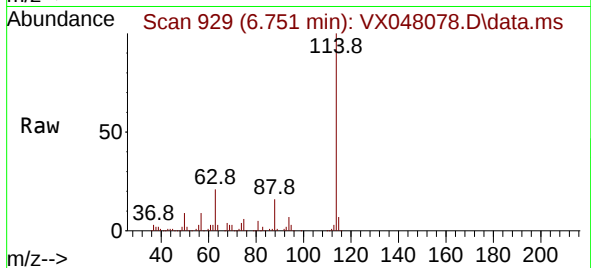




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

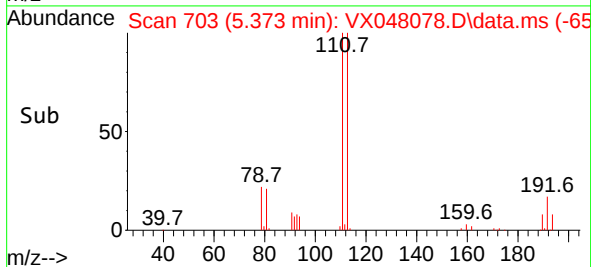
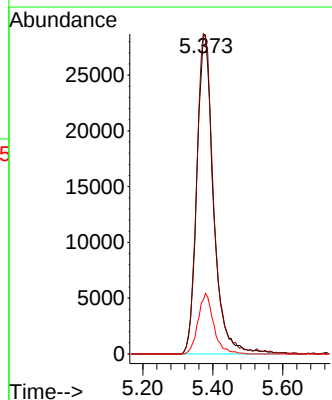
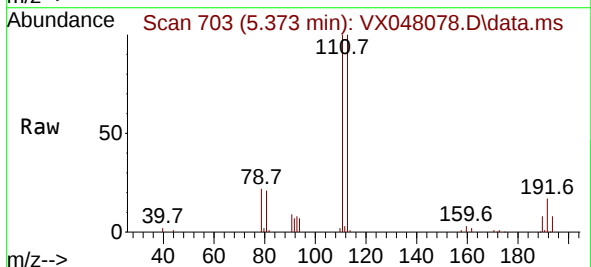
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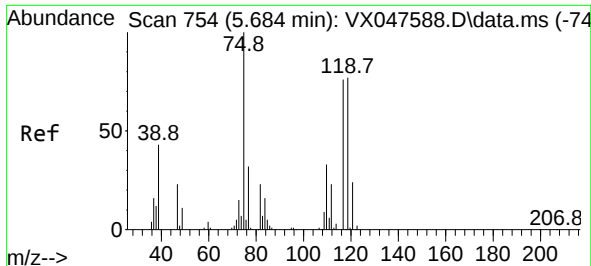
Tgt Ion:114 Resp: 277513
Ion Ratio Lower Upper
114 100
63 21.5 0.0 44.0
88 16.4 0.0 34.2



#35
Dibromofluoromethane
Concen: 50.785 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion:113 Resp: 94518
Ion Ratio Lower Upper
113 100
111 101.1 80.9 121.3
192 17.7 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.123 ug/l

RT: 5.544 min Scan# 71

Delta R.T. -0.140 min

Lab File: VX048078.D

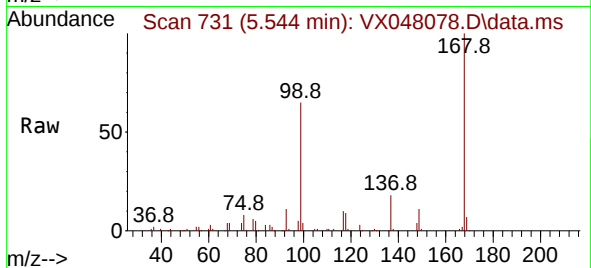
Acq: 09 Oct 2025 12:10

Instrument :

MSVOA_X

ClientSampleId :

OR-658-COMP-01



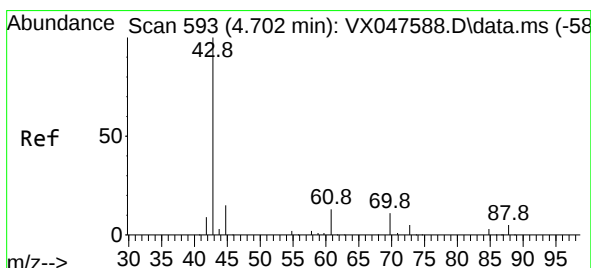
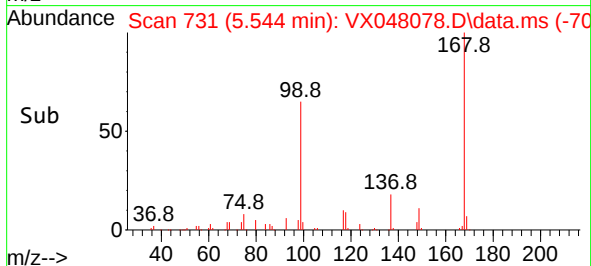
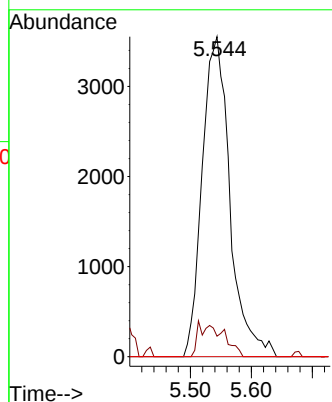
Tgt Ion: 75 Resp: 11214

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

77 0.0 24.3 36.5#



#37

Ethyl Acetate

Concen: 0.381 ug/l

RT: 4.714 min Scan# 595

Delta R.T. 0.012 min

Lab File: VX048078.D

Acq: 09 Oct 2025 12:10

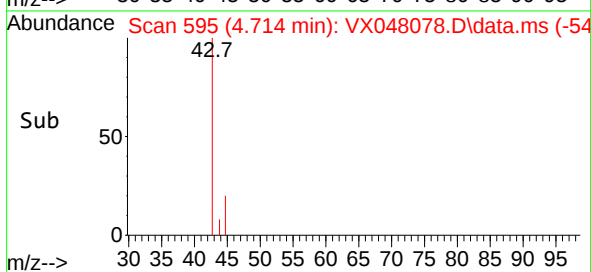
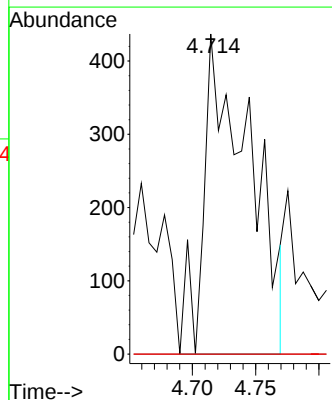
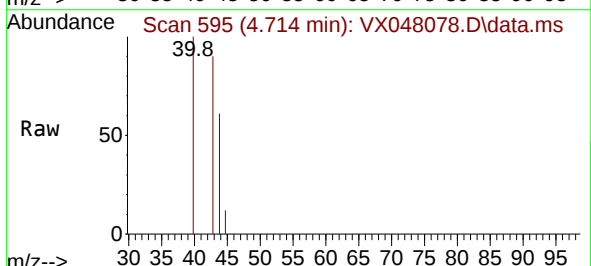
Tgt Ion: 43 Resp: 1108

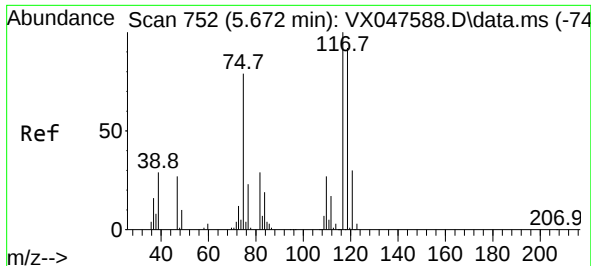
Ion Ratio Lower Upper

43 100

61 0.0 9.8 14.8#

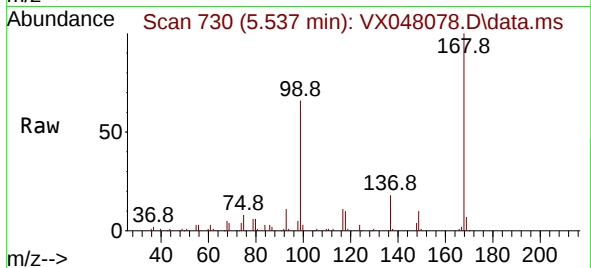
70 0.0 7.9 11.9#



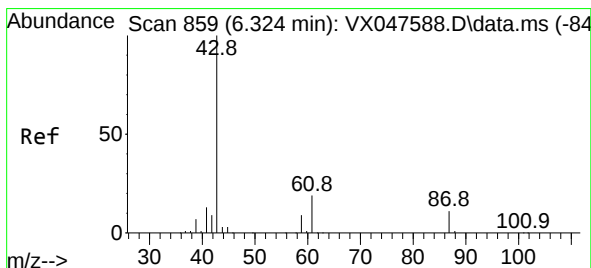
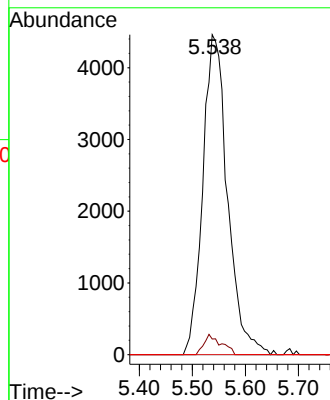
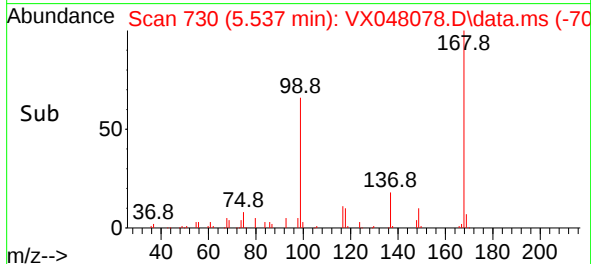


#38
Carbon Tetrachloride
Concen: 4.896 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

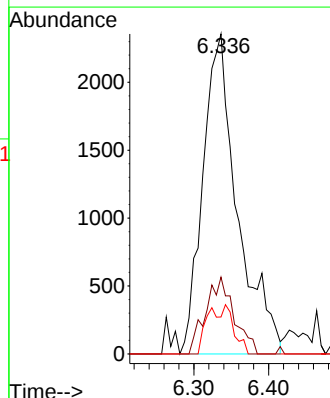
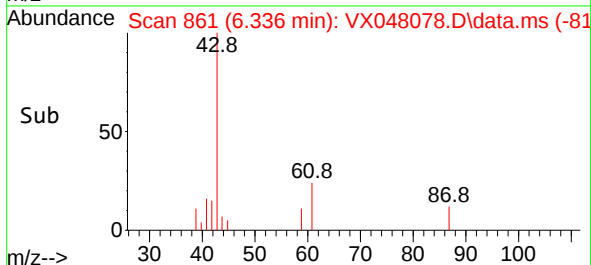
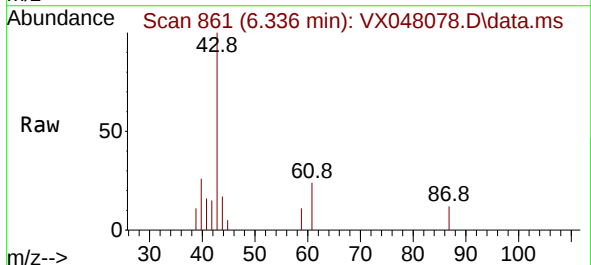


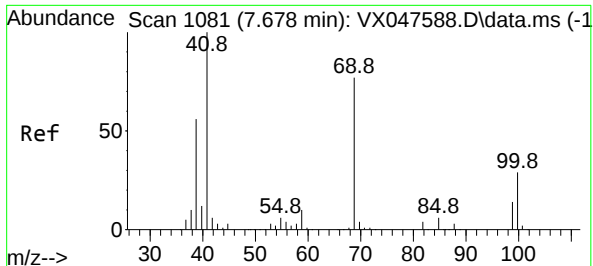
Tgt Ion:117 Resp: 14468
Ion Ratio Lower Upper
117 100
119 4.9 73.4 110.2#
121 0.0 23.8 35.6#



#43
Isopropyl Acetate
Concen: 1.585 ug/l
RT: 6.336 min Scan# 861
Delta R.T. 0.012 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 43 Resp: 7570
Ion Ratio Lower Upper
43 100
61 19.7 15.2 22.8
87 5.2 9.6 14.4#

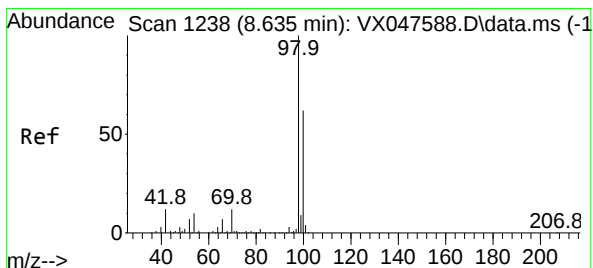
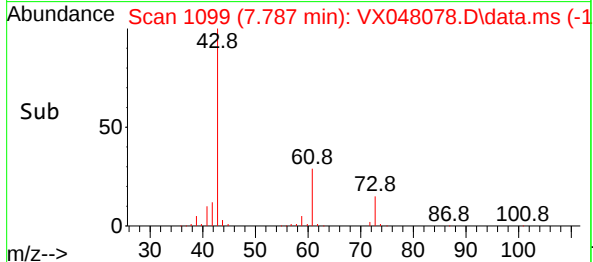
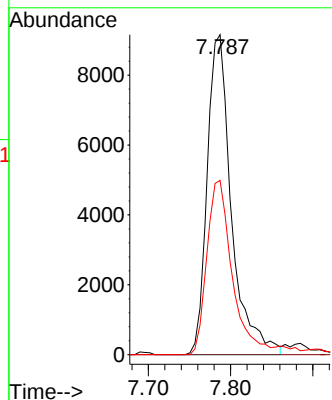
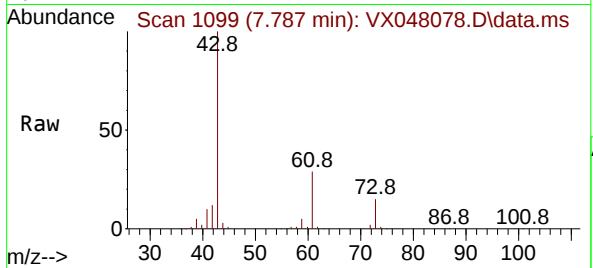




#48
Methyl methacrylate
Concen: 7.906 ug/l
RT: 7.787 min Scan# 1099
Delta R.T. 0.110 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

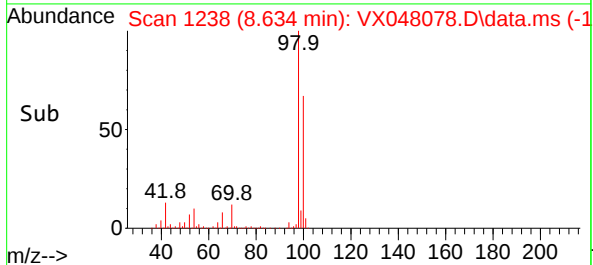
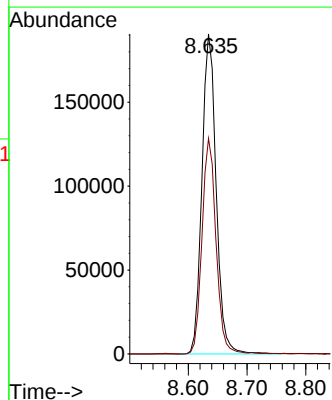
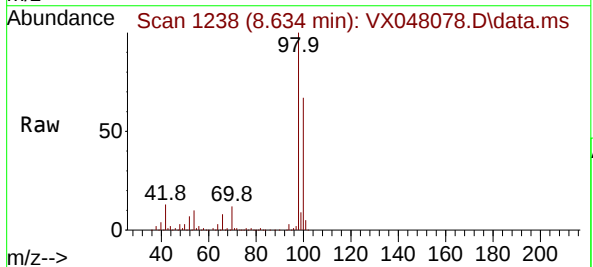
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

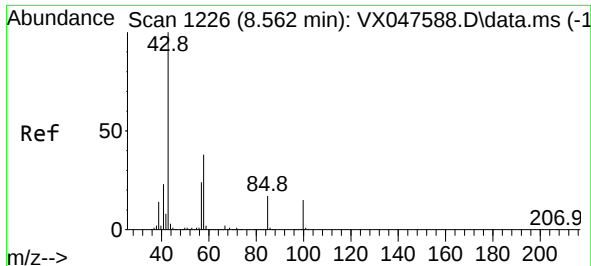
Tgt Ion: 41 Resp: 18806
Ion Ratio Lower Upper
41 100
69 0.0 61.4 92.2#
39 56.9 45.8 68.6



#50
Toluene-d8
Concen: 49.918 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 98 Resp: 321467
Ion Ratio Lower Upper
98 100
100 66.4 53.0 79.4

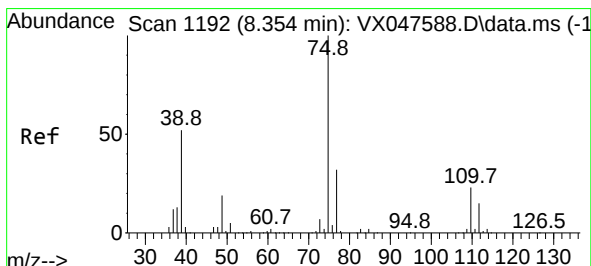
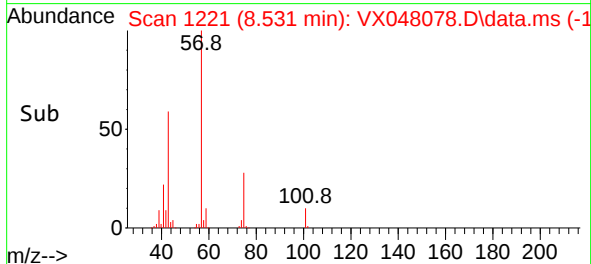
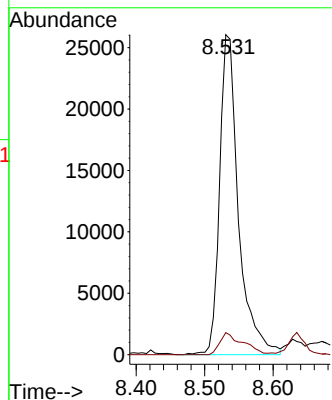
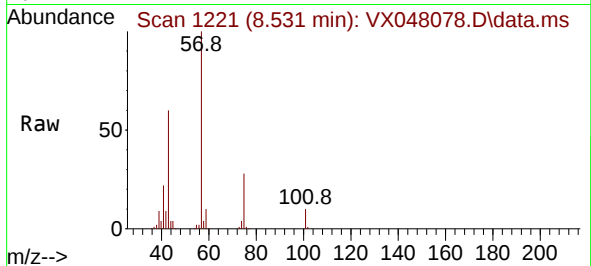




#51
4-Methyl-2-Pentanone
Concen: 18.773 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.031 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

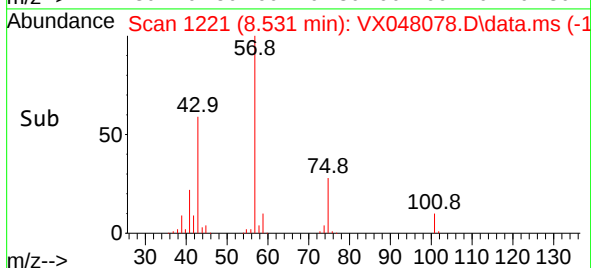
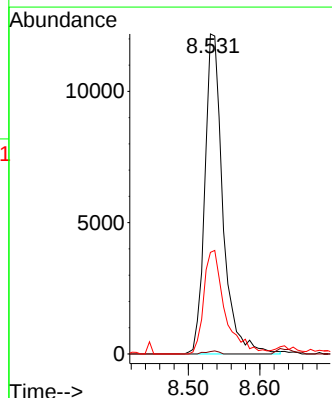
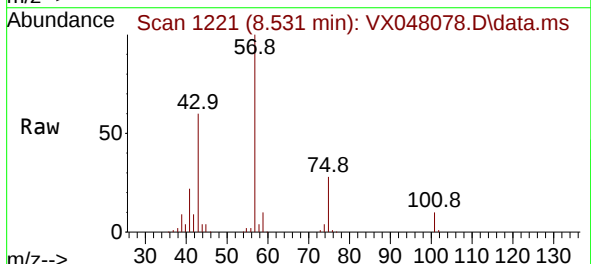
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

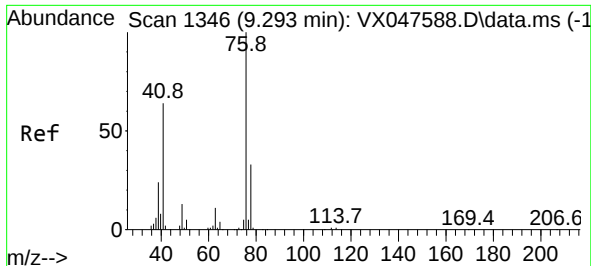
Tgt Ion: 43 Resp: 49709
Ion Ratio Lower Upper
43 100
58 8.5 30.3 45.5#



#54
cis-1,3-Dichloropropene
Concen: 6.164 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. 0.177 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 75 Resp: 21346
Ion Ratio Lower Upper
75 100
77 0.8 25.8 38.6#
39 29.5 41.4 62.2#

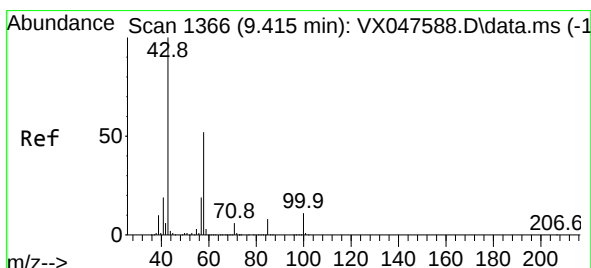
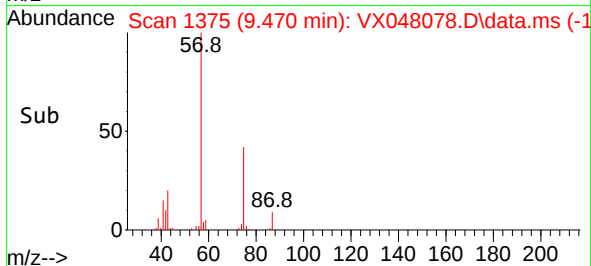
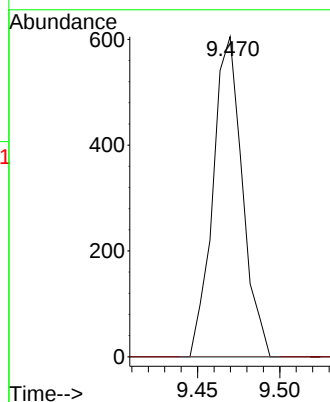
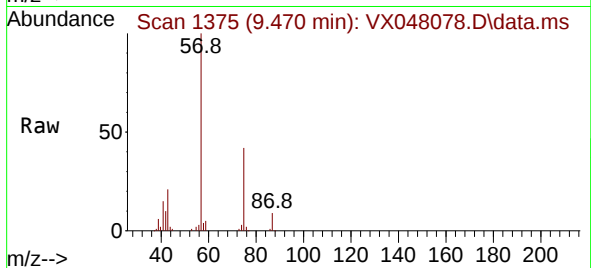




#57
1,3-Dichloropropane
Concen: 0.224 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.177 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

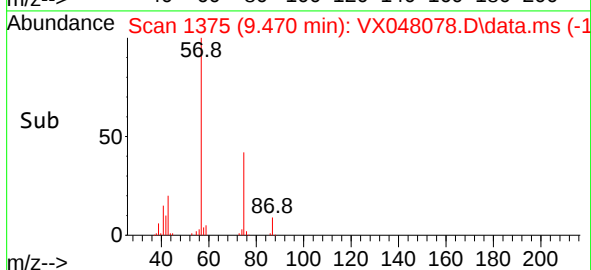
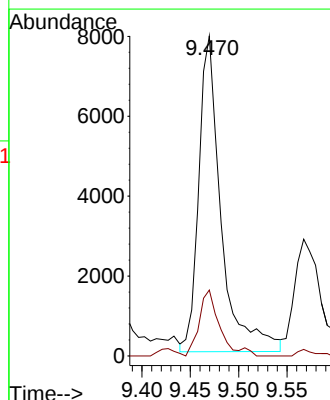
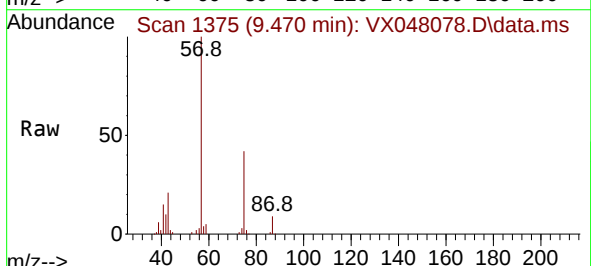
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

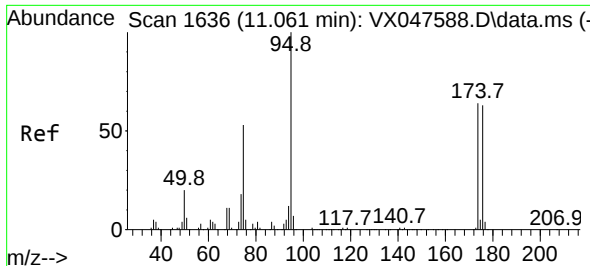
Tgt Ion: 76 Resp: 754
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 6.693 ug/l
RT: 9.470 min Scan# 1375
Delta R.T. 0.055 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 43 Resp: 12729
Ion Ratio Lower Upper
43 100
58 19.2 26.1 78.2#

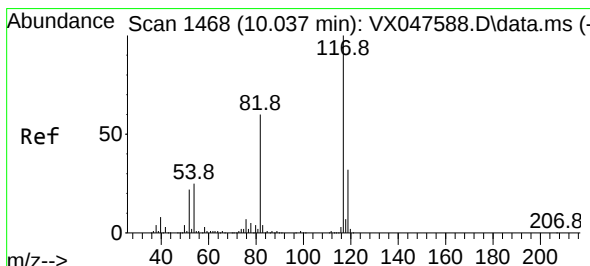
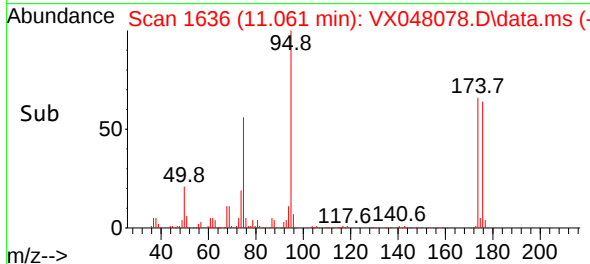
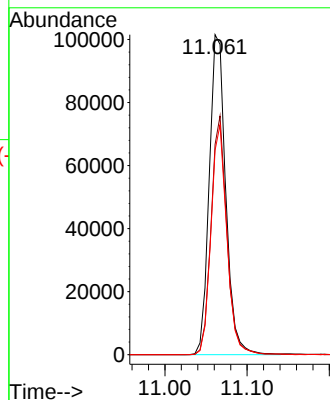
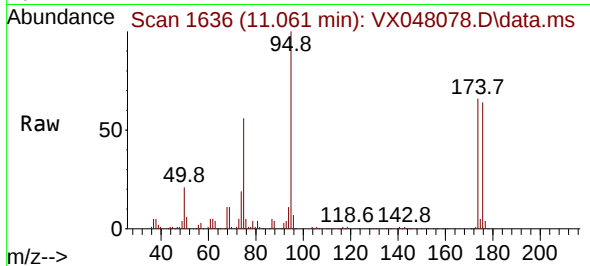




#62
4-Bromofluorobenzene
Concen: 57.873 ug/l
RT: 11.061 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

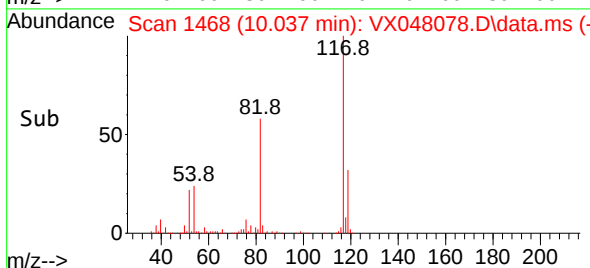
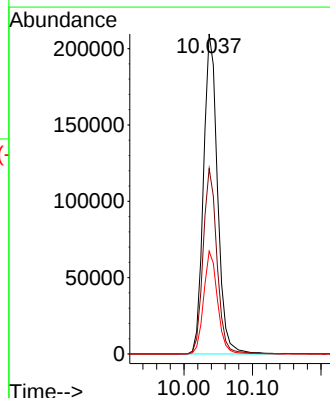
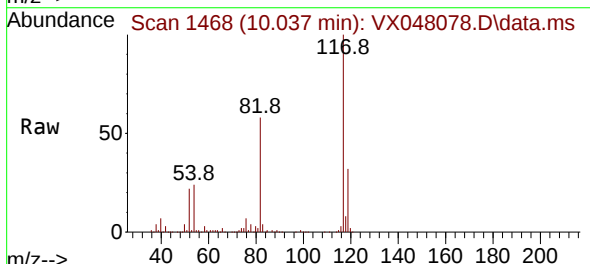
Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

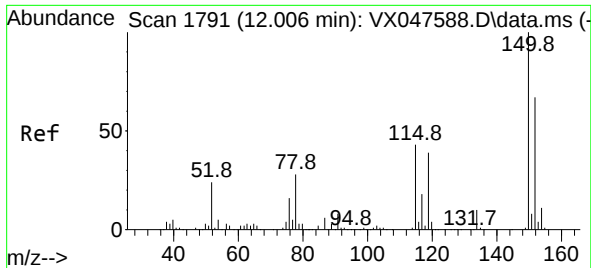
Tgt Ion: 95 Resp: 141446
Ion Ratio Lower Upper
95 100
174 71.5 0.0 141.6
176 69.1 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 117 Resp: 299302
Ion Ratio Lower Upper
117 100
82 58.0 47.8 71.6
119 32.1 25.2 37.8

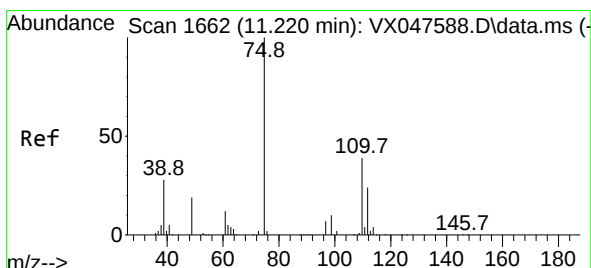
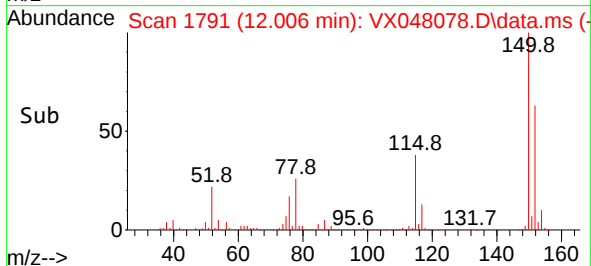
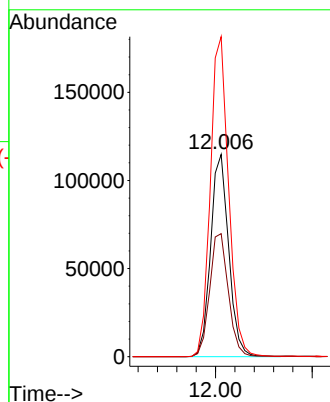
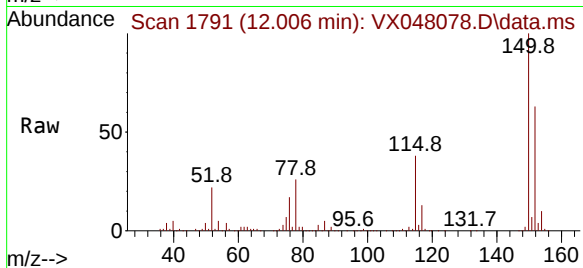




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX048078.D
 Acq: 09 Oct 2025 12:10

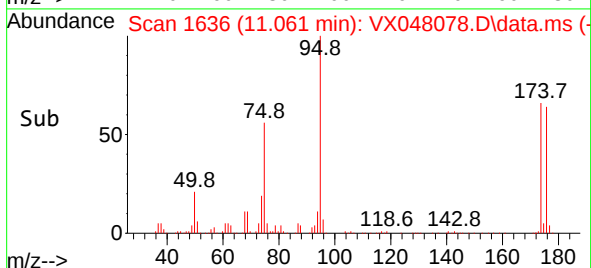
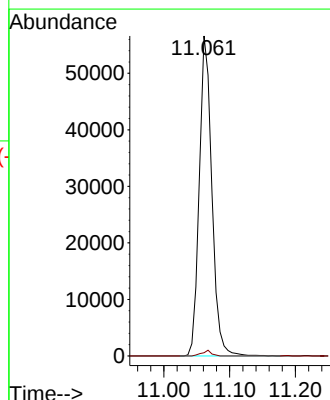
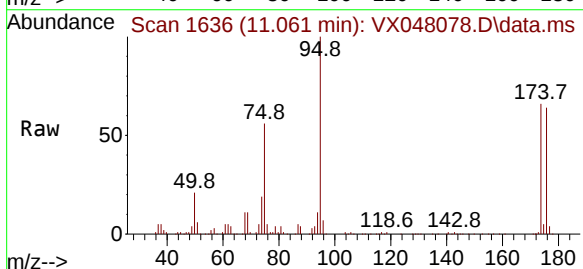
Instrument :
 MSVOA_X
 ClientSampleId :
 OR-658-COMP-01

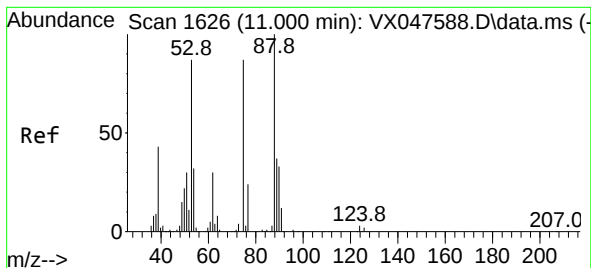
Tgt Ion:152 Resp: 149257
 Ion Ratio Lower Upper
 152 100
 115 62.9 44.9 134.5
 150 159.8 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 24.837 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048078.D
 Acq: 09 Oct 2025 12:10

Tgt Ion: 75 Resp: 75057
 Ion Ratio Lower Upper
 75 100
 77 1.3 18.8 56.4#

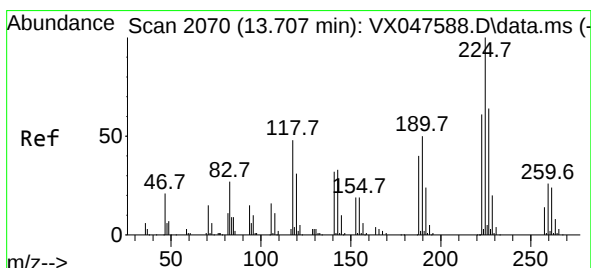
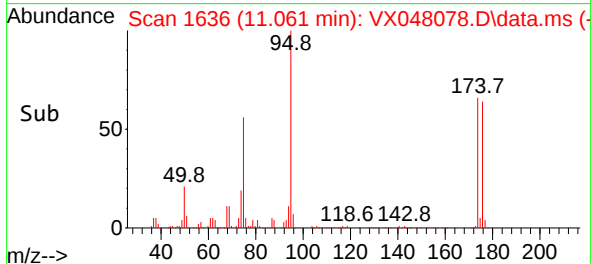
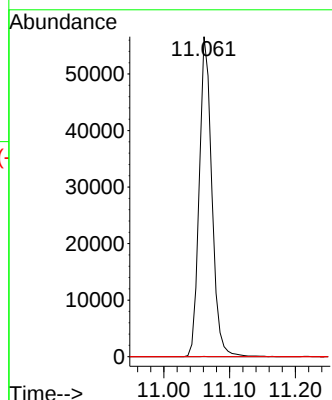
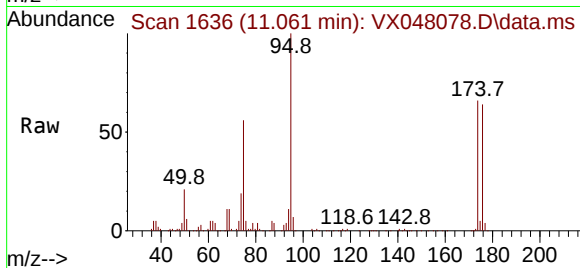




#81
trans-1,4-Dichloro-2-butene
Concen: 63.338 ug/l
RT: 11.061 min Scan# 11
Delta R.T. 0.061 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Instrument :
MSVOA_X
ClientSampleId :
OR-658-COMP-01

Tgt Ion: 75 Resp: 75057
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#94
Hexachlorobutadiene
Concen: 0.300 ug/l
RT: 13.701 min Scan# 2069
Delta R.T. -0.006 min
Lab File: VX048078.D
Acq: 09 Oct 2025 12:10

Tgt Ion: 225 Resp: 327
Ion Ratio Lower Upper
225 100
223 62.1 31.7 95.1
227 47.4 32.0 96.0

