

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102425\
 Data File : VX048348.D
 Acq On : 24 Oct 2025 12:47
 Operator : JC/MD
 Sample : Q3412-04RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-6

Quant Time: Oct 24 23:03:39 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

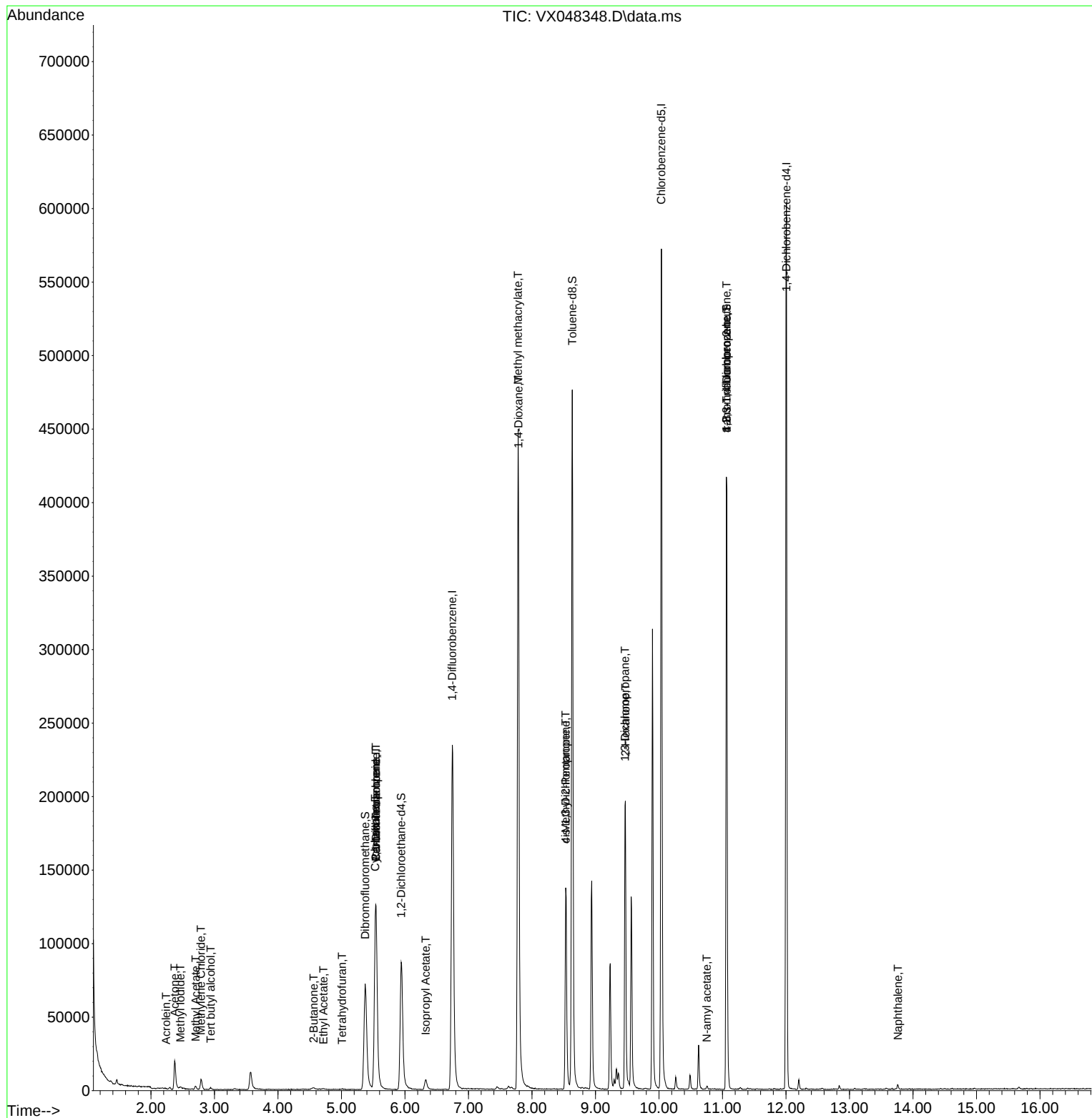
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.544	168	125875	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	252480	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253174	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	119697	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	98047	55.555	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	111.120%
35) Dibromofluoromethane	5.373	113	68796	39.913	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	79.820%
50) Toluene-d8	8.635	98	283134	46.864	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	93.720%
62) 4-Bromofluorobenzene	11.061	95	118583	51.593	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.180%
Target Compounds						Qvalue
10) Methyl Iodide	2.465	142	1790	1.048	ug/l #	94
11) Tert butyl alcohol	2.941	59	131	0.748	ug/l #	72
13) Acrolein	2.239	56	51	0.285	ug/l #	74
16) Acetone	2.374	43	24886	41.103	ug/l	94
18) Methyl Acetate	2.703	43	3556	2.812	ug/l	95
20) Methylene Chloride	2.788	84	3271	2.217	ug/l	93
25) 2-Butanone	4.562	43	1629	2.126	ug/l #	76
29) Tetrahydrofuran	5.007	42	331	0.721	ug/l #	51
31) Cyclohexane	5.532	56	2977	1.359	ug/l #	8
36) 1,1-Dichloropropene	5.544	75	11130	4.543	ug/l #	47
37) Ethyl Acetate	4.715	43	843	0.415	ug/l #	79
38) Carbon Tetrachloride	5.544	117	13916	4.604	ug/l #	15
43) Isopropyl Acetate	6.324	43	9978	2.991	ug/l	96
48) Methyl methacrylate	7.781	41	45649	27.121	ug/l #	47
49) 1,4-Dioxane	7.787	88	26	1.169	ug/l #	1
51) 4-Methyl-2-Pentanone	8.531	43	53866	28.009	ug/l #	50
54) cis-1,3-Dichloropropene	8.531	75	22275	7.531	ug/l #	65
57) 1,3-Dichloropropane	9.464	76	1812	0.631	ug/l #	43
59) 2-Hexanone	9.470	43	26633	19.860	ug/l #	53
74) N-amyl acetate	10.750	43	1219	0.393	ug/l #	44
76) 1,2,3-Trichloropropane	11.061	75	64295	33.123	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	64295	80.586	ug/l #	10
95) Naphthalene	13.762	128	2262	0.325	ug/l #	95

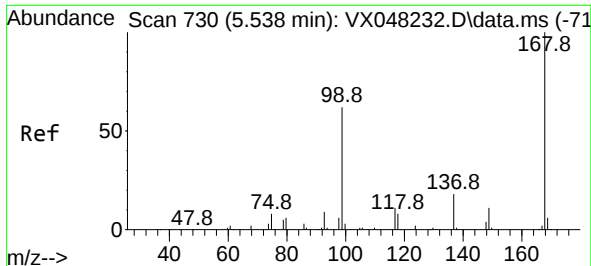
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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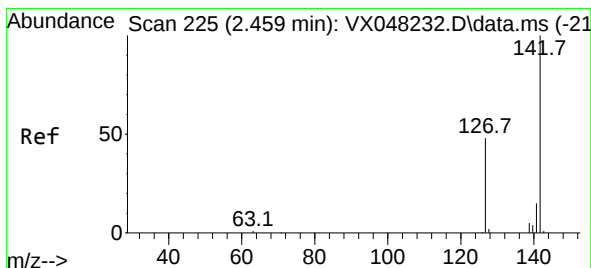
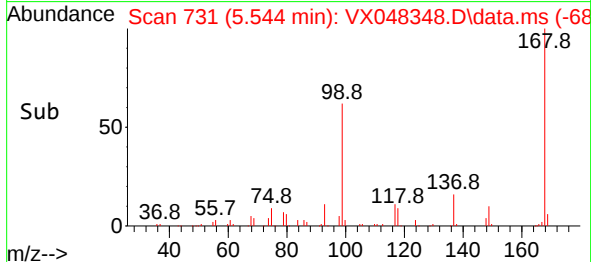
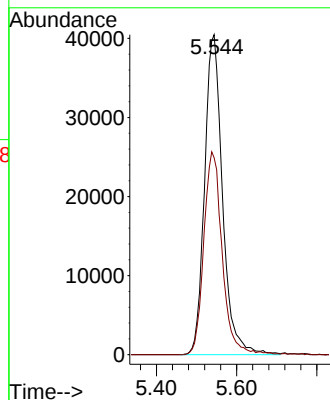
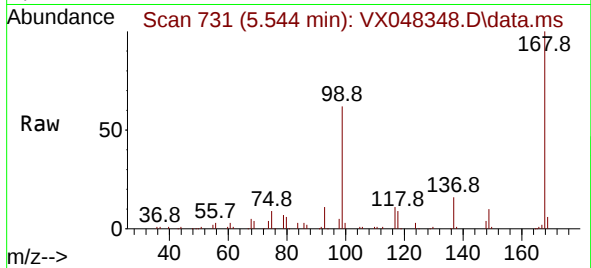




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

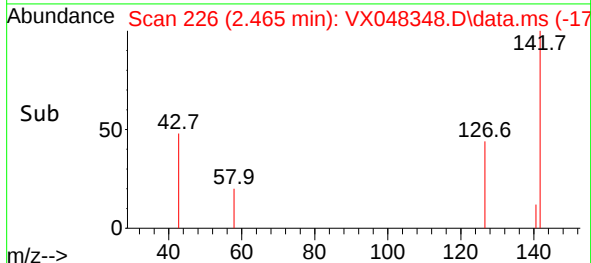
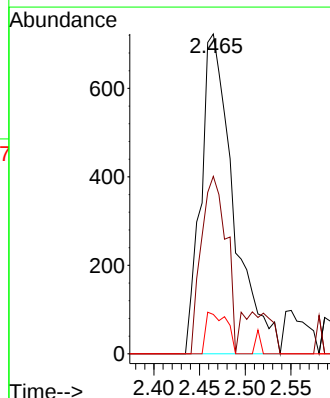
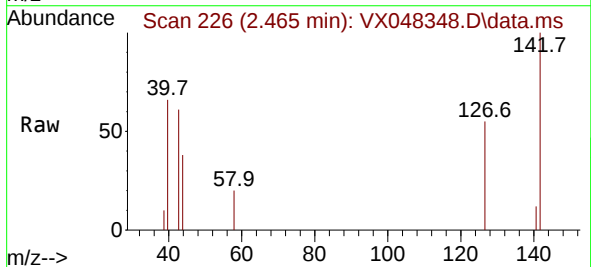
Instrument :
MSVOA_X
ClientSampleId :
TP-6

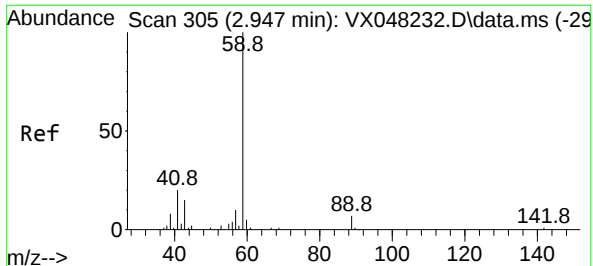
Tgt Ion:168 Resp: 125875
Ion Ratio Lower Upper
168 100
99 61.5 46.4 69.6



#10
Methyl Iodide
Concen: 1.048 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion:142 Resp: 1790
Ion Ratio Lower Upper
142 100
127 46.1 38.5 57.7
141 8.3 11.6 17.4#





#11

Tert butyl alcohol

Concen: 0.748 ug/l

RT: 2.941 min Scan# 305

Delta R.T. 0.000 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

Instrument :

MSVOA_X

ClientSampleId :

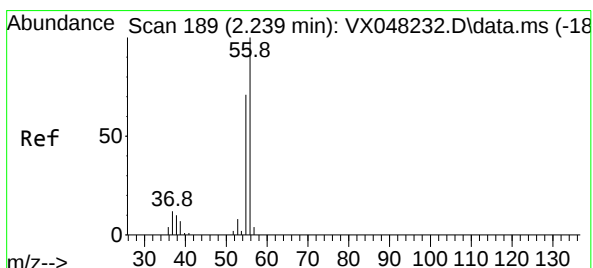
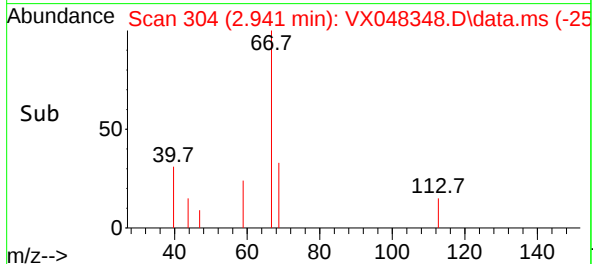
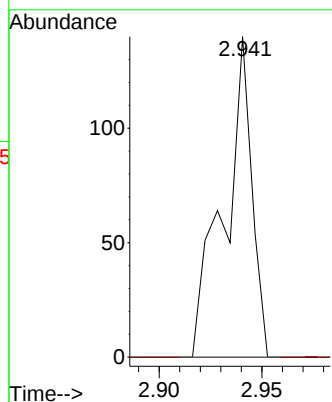
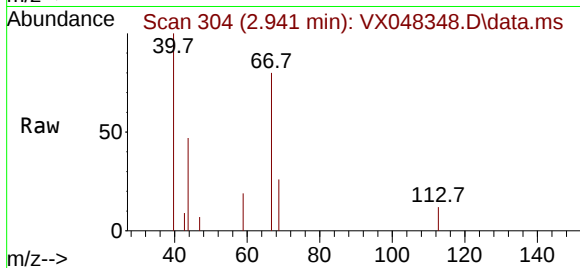
TP-6

Tgt Ion: 59 Resp: 131

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#13

Acrolein

Concen: 0.285 ug/l

RT: 2.239 min Scan# 189

Delta R.T. 0.006 min

Lab File: VX048348.D

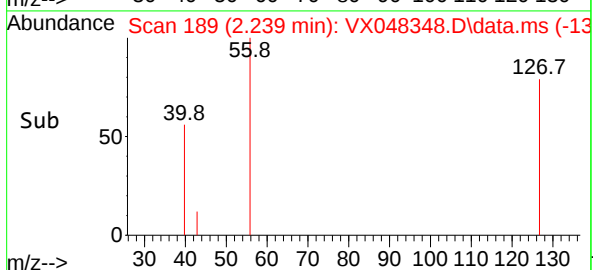
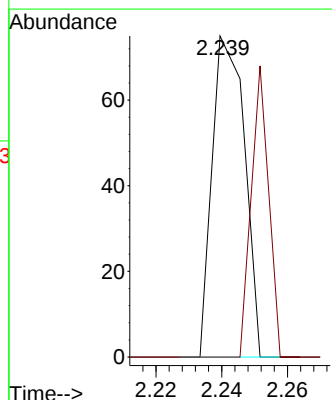
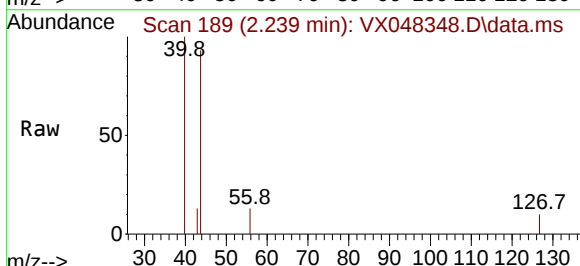
Acq: 24 Oct 2025 12:47

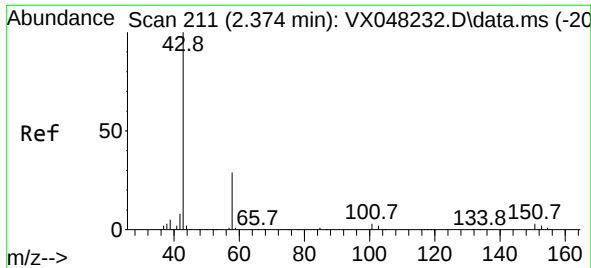
Tgt Ion: 56 Resp: 51

Ion Ratio Lower Upper

56 100

55 49.0 56.1 84.1#

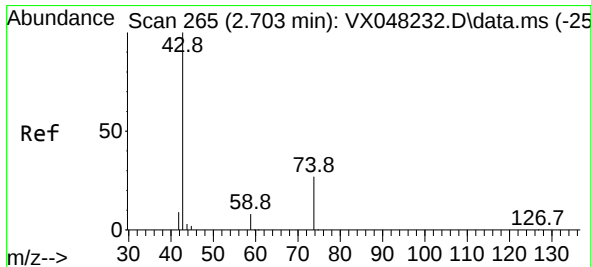
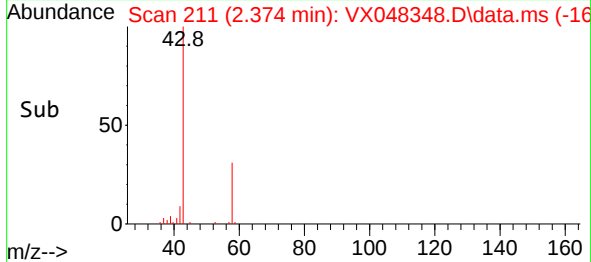
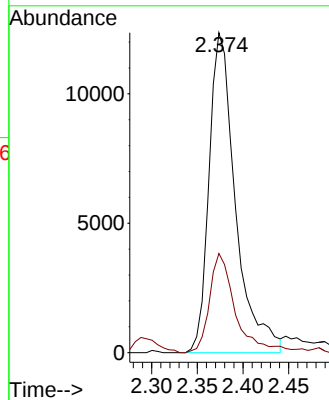
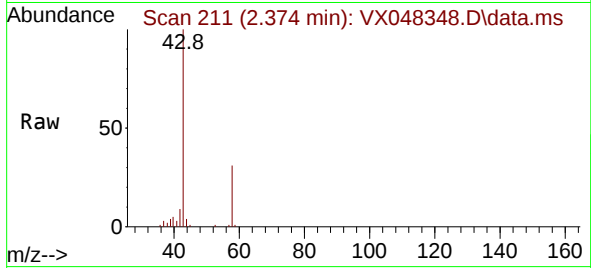




#16
Acetone
Concen: 41.103 ug/l
RT: 2.374 min Scan# 211
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

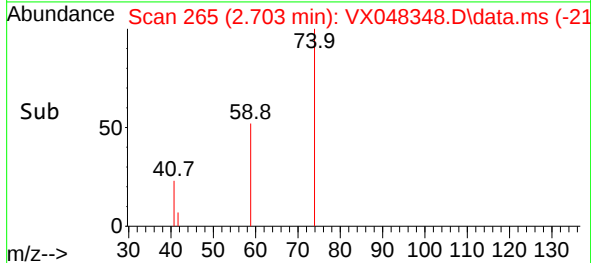
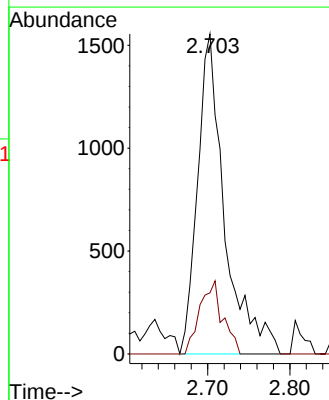
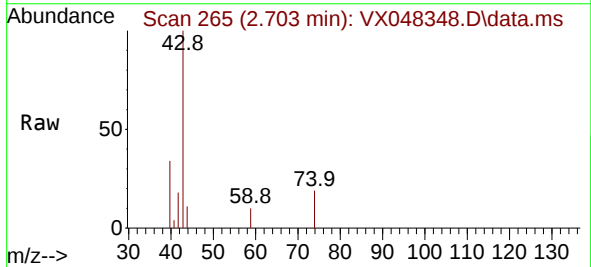
Instrument :
MSVOA_X
ClientSampleId :
TP-6

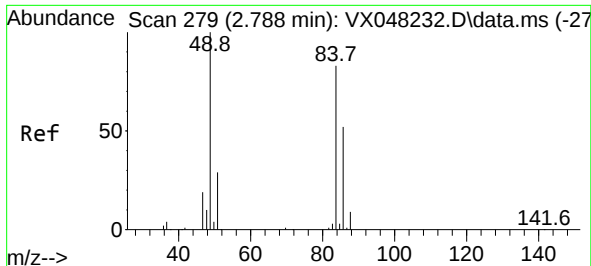
Tgt Ion: 43 Resp: 24886
Ion Ratio Lower Upper
43 100
58 32.8 23.4 35.2



#18
Methyl Acetate
Concen: 2.812 ug/l
RT: 2.703 min Scan# 265
Delta R.T. 0.006 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 43 Resp: 3556
Ion Ratio Lower Upper
43 100
74 19.3 17.5 26.3

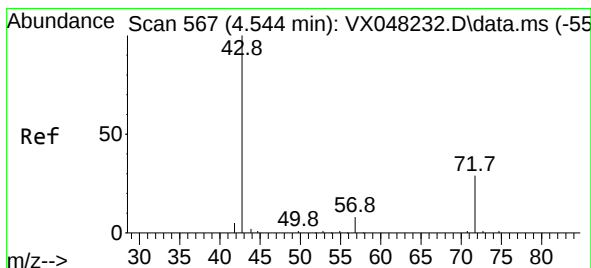
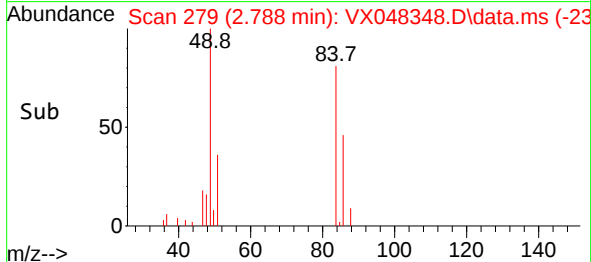
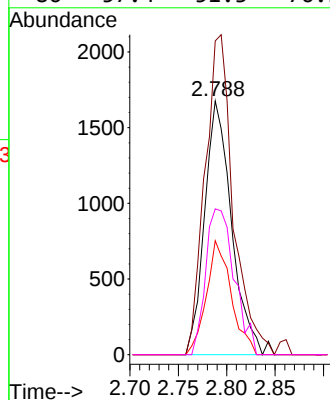
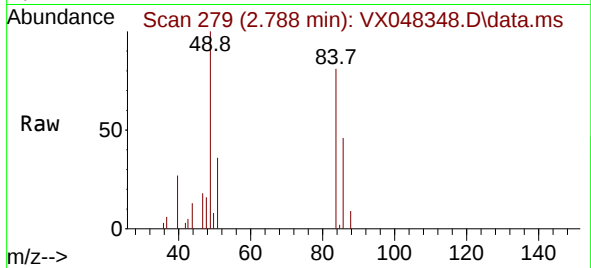




#20
Methylene Chloride
Concen: 2.217 ug/l
RT: 2.788 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

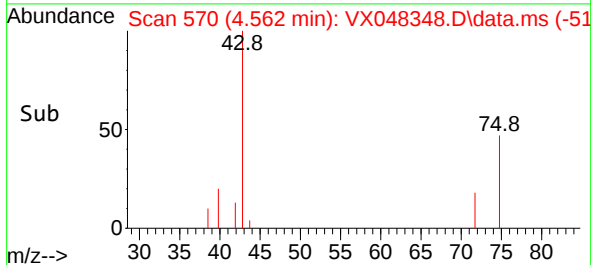
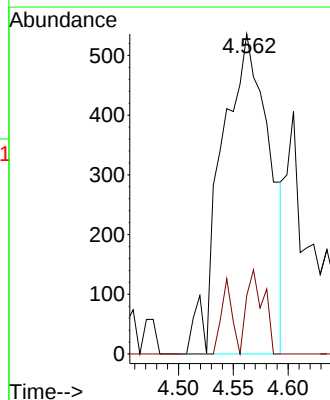
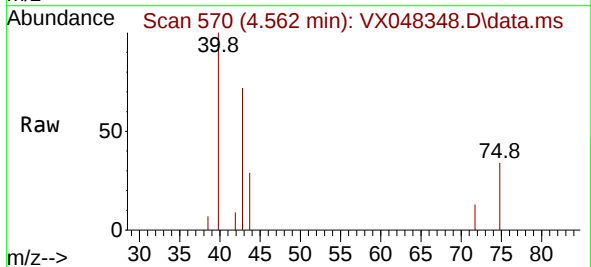
Instrument :
MSVOA_X
ClientSampleId :
TP-6

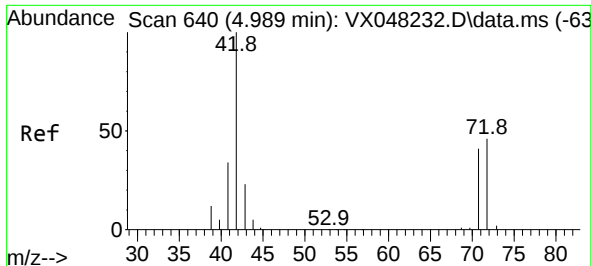
Tgt Ion:	84	Resp:	3271
Ion	Ratio	Lower	Upper
84	100		
49	123.6	104.1	156.1
51	44.9	31.3	46.9
86	57.4	51.3	76.9



#25
2-Butanone
Concen: 2.126 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.024 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion:	43	Resp:	1629
Ion	Ratio	Lower	Upper
43	100		
72	13.0	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.721 ug/l

RT: 5.007 min Scan# 64

Delta R.T. 0.018 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

Instrument :

MSVOA_X

ClientSampleId :

TP-6

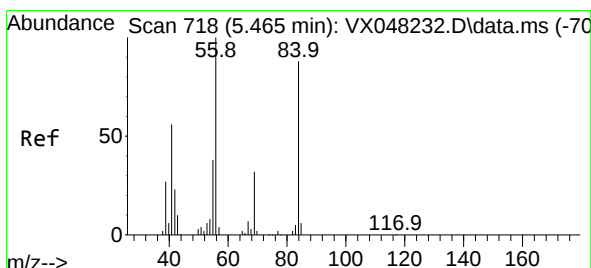
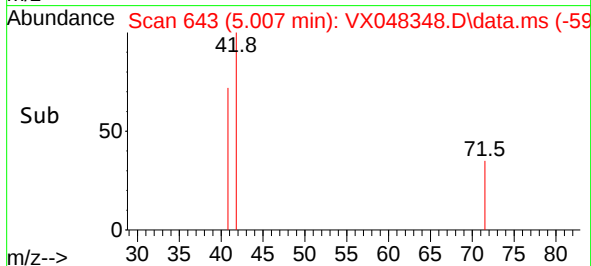
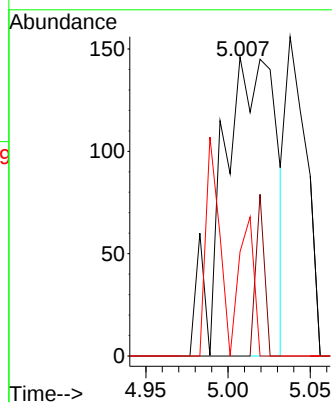
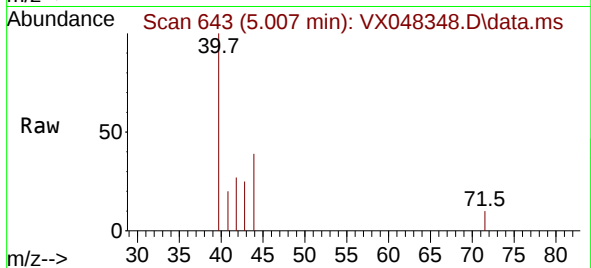
Tgt Ion: 42 Resp: 331

Ion Ratio Lower Upper

42 100

72 8.8 35.3 52.9#

71 13.3 32.2 48.4#



#31

Cyclohexane

Concen: 1.359 ug/l

RT: 5.532 min Scan# 729

Delta R.T. 0.073 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

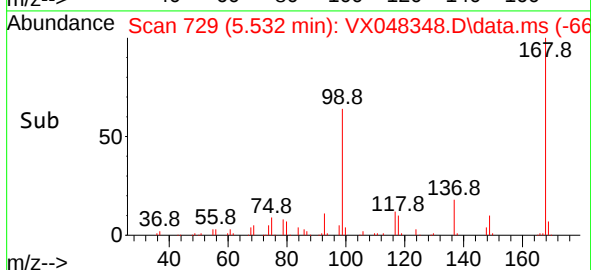
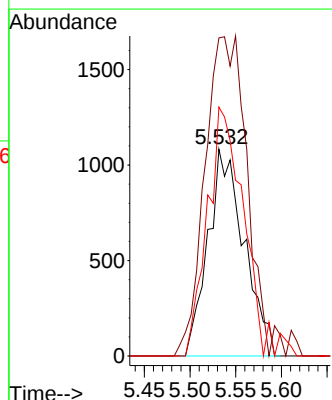
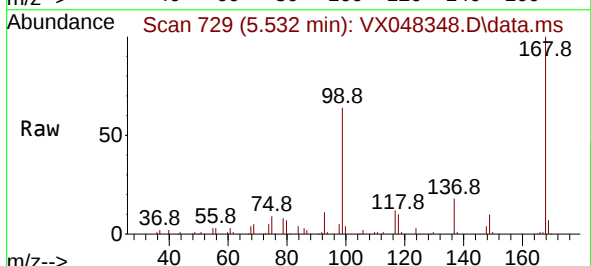
Tgt Ion: 56 Resp: 2977

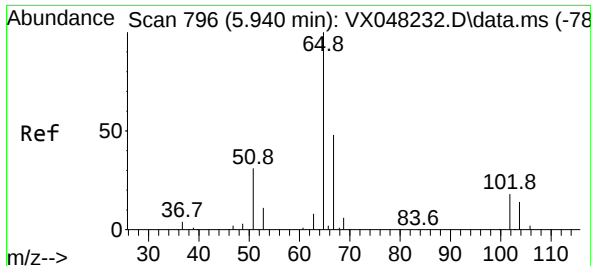
Ion Ratio Lower Upper

56 100

69 148.4 23.0 34.6#

84 120.3 64.6 97.0#

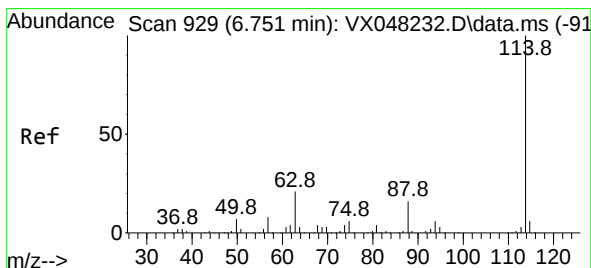
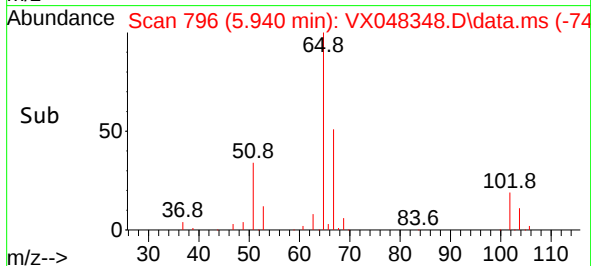
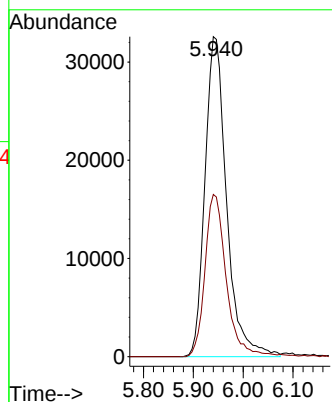
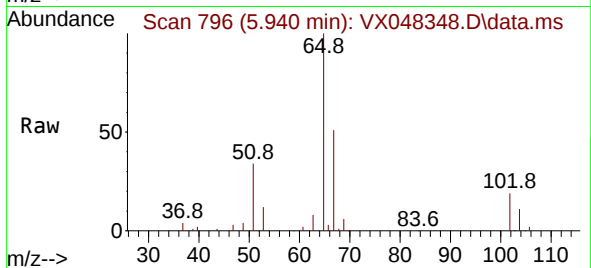




#33
 1,2-Dichloroethane-d4
 Concen: 55.555 ug/l
 RT: 5.940 min Scan# 796
 Delta R.T. 0.000 min
 Lab File: VX048348.D
 Acq: 24 Oct 2025 12:47

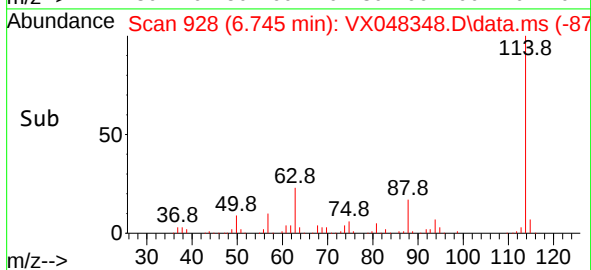
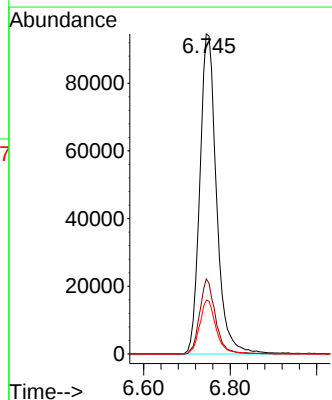
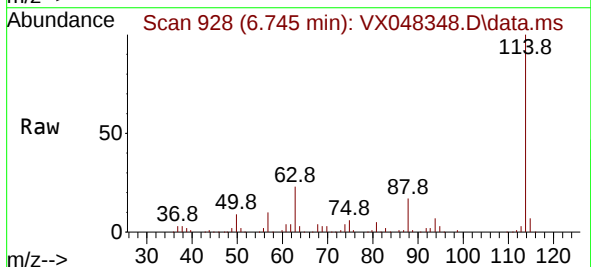
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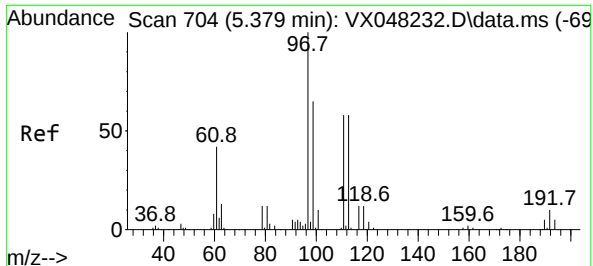
Tgt Ion: 65 Resp: 98047
 Ion Ratio Lower Upper
 65 100
 67 49.8 0.0 105.0



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 928
 Delta R.T. -0.000 min
 Lab File: VX048348.D
 Acq: 24 Oct 2025 12:47

Tgt Ion: 114 Resp: 252480
 Ion Ratio Lower Upper
 114 100
 63 23.5 0.0 43.2
 88 16.8 0.0 33.6

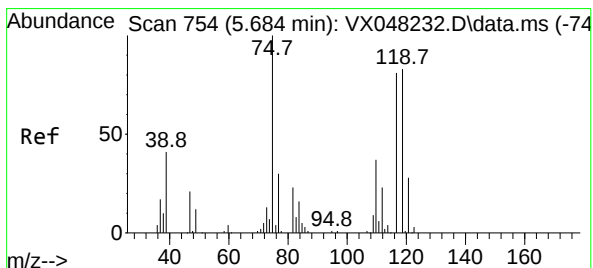
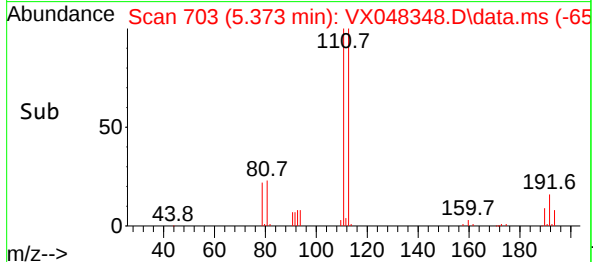
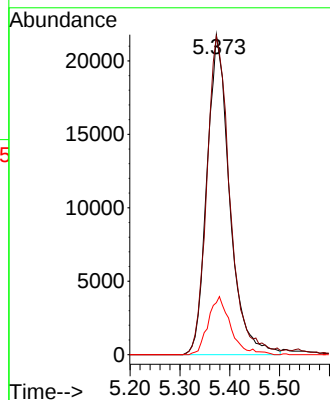
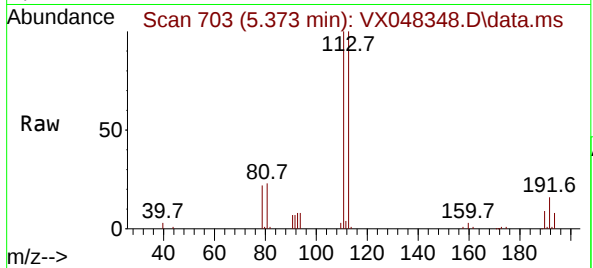




#35
Dibromofluoromethane
Concen: 39.913 ug/l
RT: 5.373 min Scan# 704
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

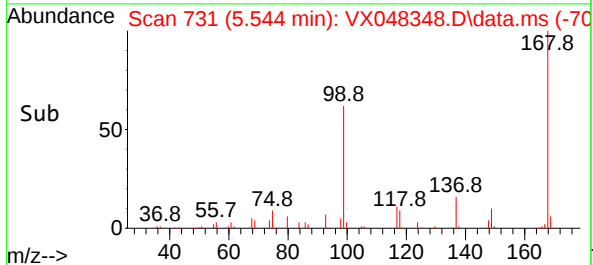
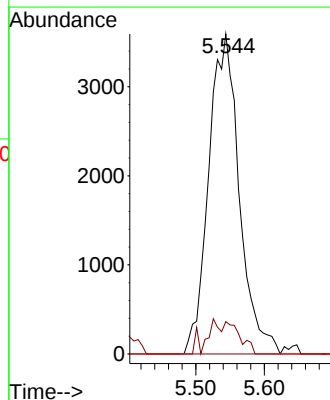
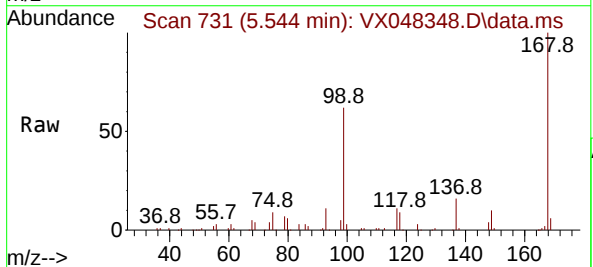
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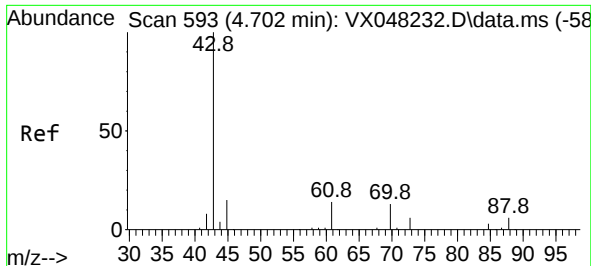
Tgt Ion:113 Resp: 68796
Ion Ratio Lower Upper
113 100
111 101.9 82.2 123.4
192 18.0 15.1 22.7



#36
1,1-Dichloropropene
Concen: 4.543 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 75 Resp: 11130
Ion Ratio Lower Upper
75 100
110 5.3 17.7 53.1#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 0.415 ug/l

RT: 4.715 min Scan# 593

Delta R.T. 0.018 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

Instrument :

MSVOA_X

ClientSampleId :

TP-6

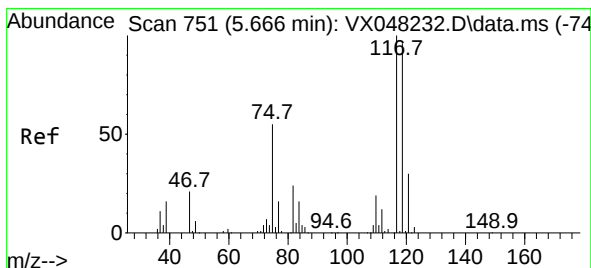
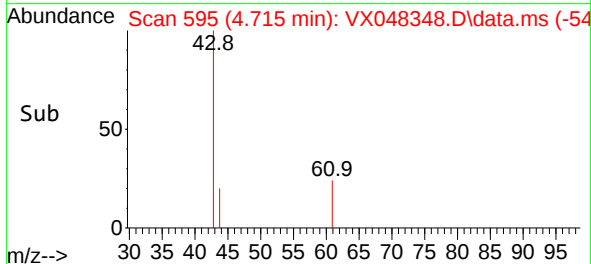
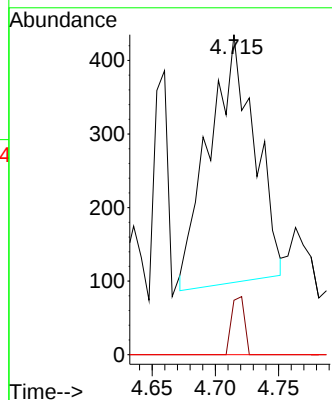
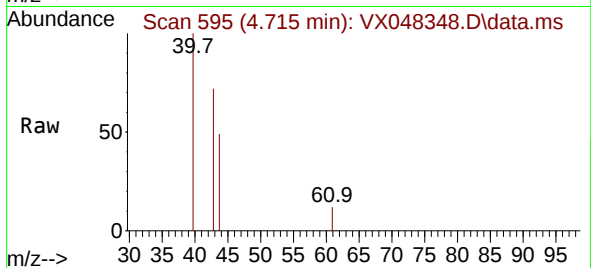
Tgt Ion: 43 Resp: 843

Ion Ratio Lower Upper

43 100

61 6.6 10.6 15.8#

70 0.0 7.8 11.6#



#38

Carbon Tetrachloride

Concen: 4.604 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.122 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

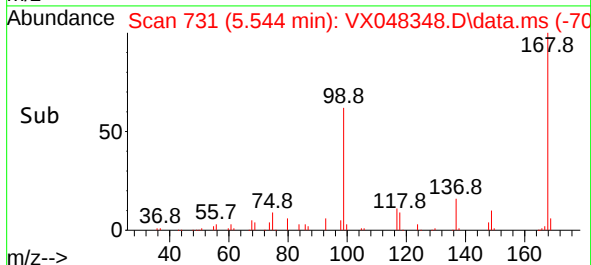
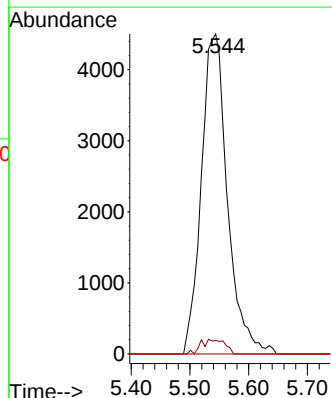
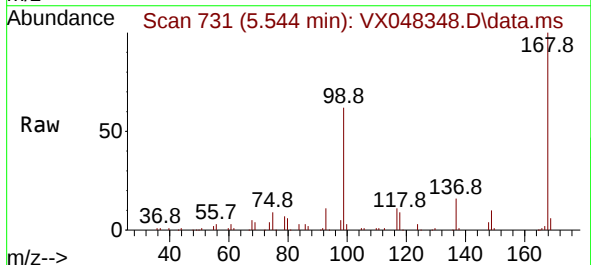
Tgt Ion: 117 Resp: 13916

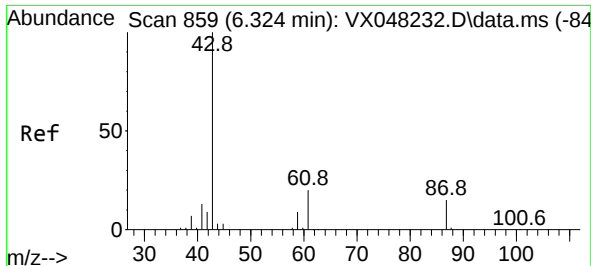
Ion Ratio Lower Upper

117 100

119 4.2 77.2 115.8#

121 0.0 24.8 37.2#

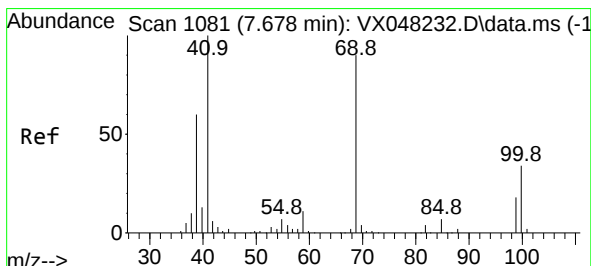
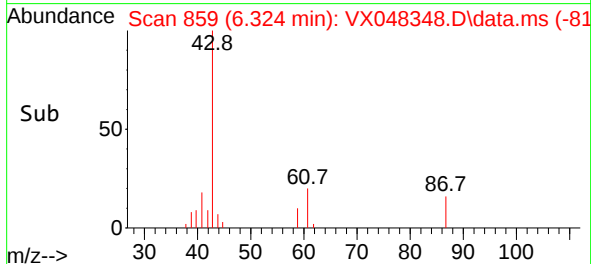
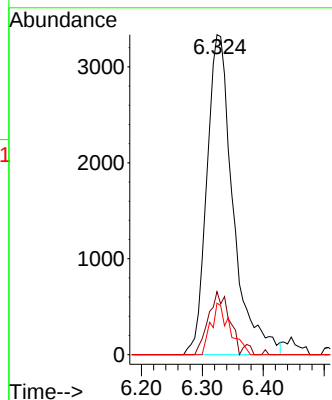
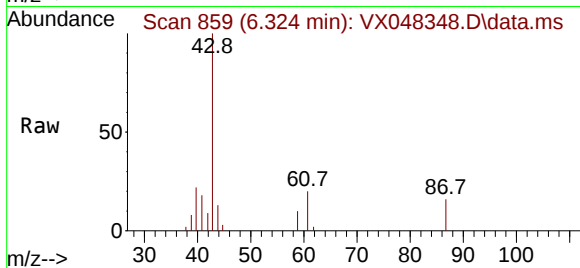




#43
Isopropyl Acetate
Concen: 2.991 ug/l
RT: 6.324 min Scan# 859
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

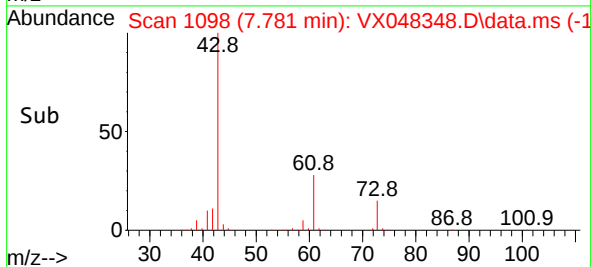
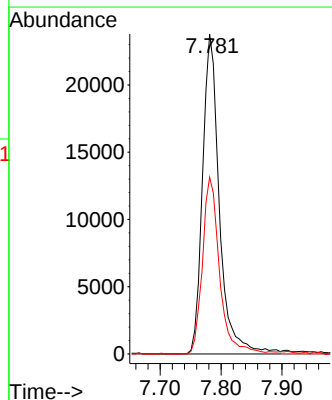
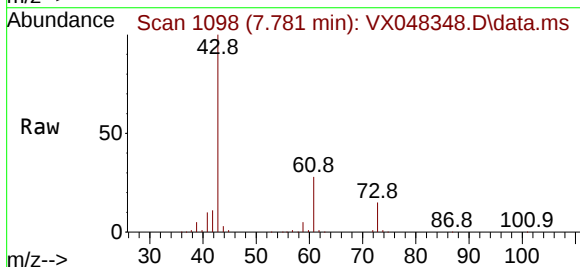
Instrument :
MSVOA_X
ClientSampleId :
TP-6

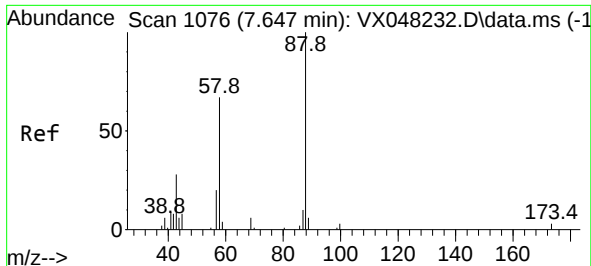
Tgt Ion:	43	Resp:	9978
Ion	Ratio	Lower	Upper
43	100		
61	15.8	14.9	22.3
87	11.7	9.4	14.2



#48
Methyl methacrylate
Concen: 27.121 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion:	41	Resp:	45649
Ion	Ratio	Lower	Upper
41	100		
69	0.0	63.4	95.0#
39	56.0	47.1	70.7

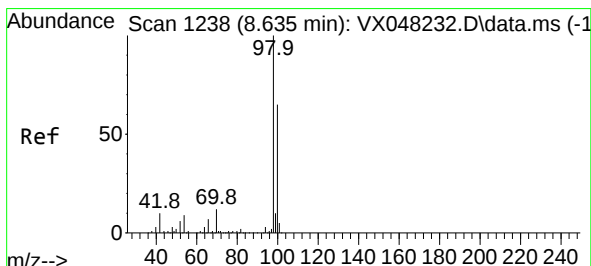
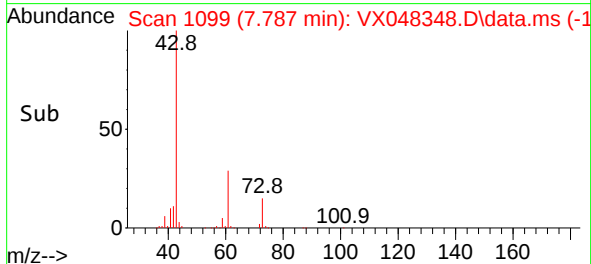
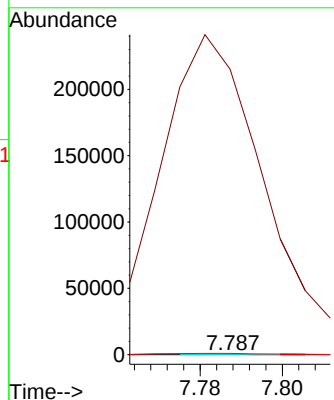
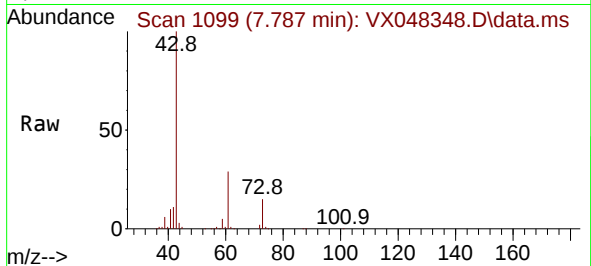




#49
1,4-Dioxane
Concen: 1.169 ug/l
RT: 7.787 min Scan# 1076
Delta R.T. 0.146 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

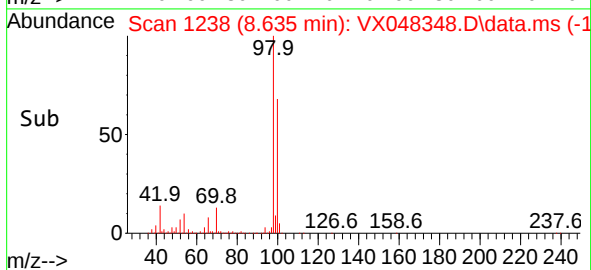
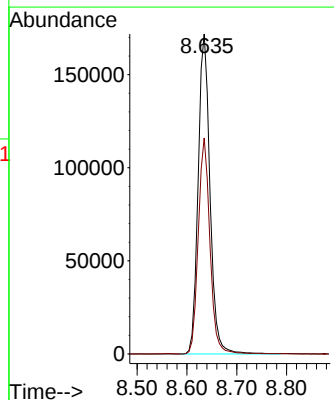
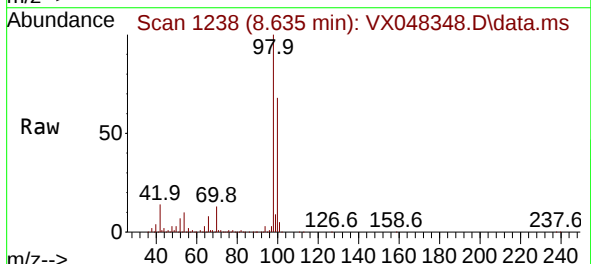
Instrument :
MSVOA_X
ClientSampleId :
TP-6

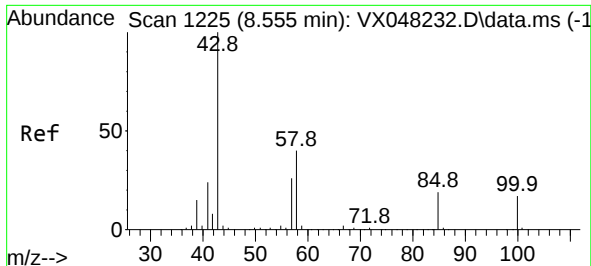
Tgt Ion: 88 Resp: 26
Ion Ratio Lower Upper
88 100
43 1760869.2 35.0 52.4#
58 7734.6 61.9 92.9#



#50
Toluene-d8
Concen: 46.864 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 98 Resp: 283134
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.4

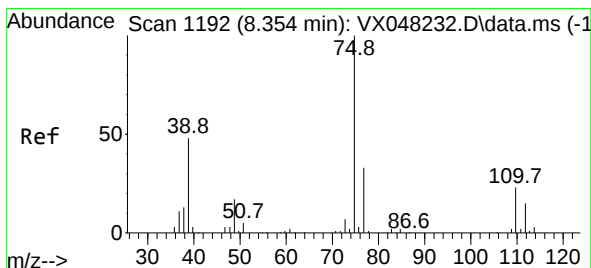
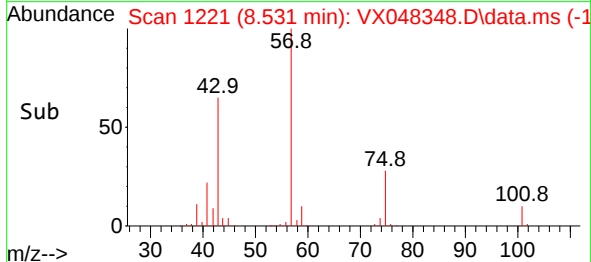
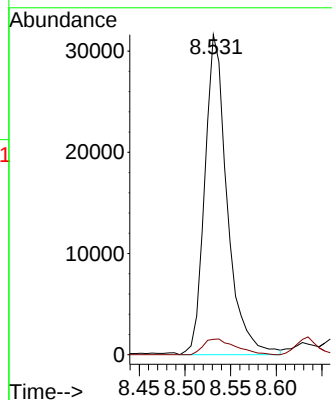
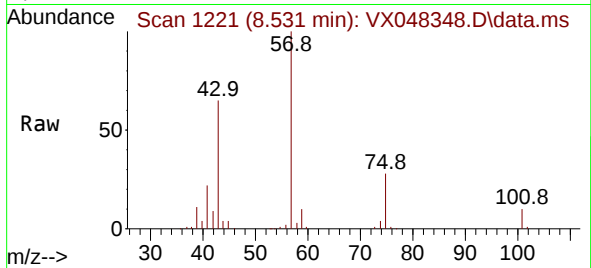




#51
4-Methyl-2-Pentanone
Concen: 28.009 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

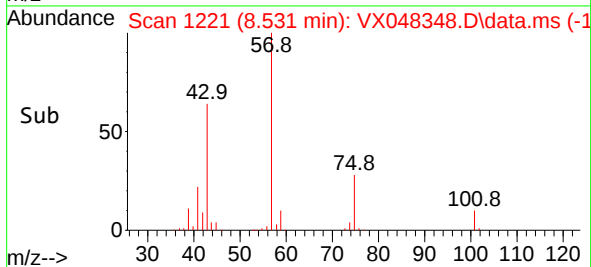
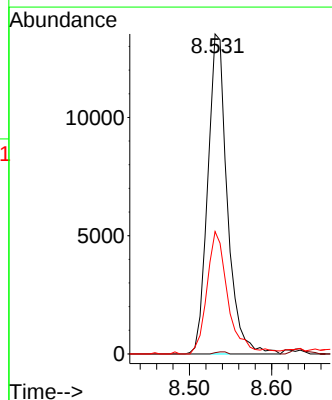
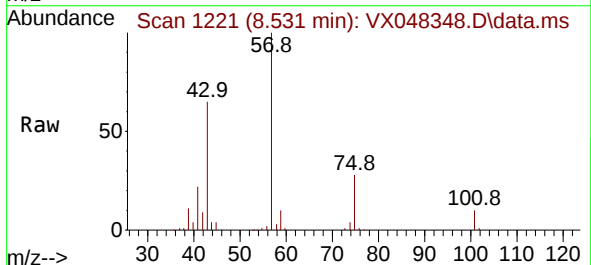
Instrument :
MSVOA_X
ClientSampleId :
TP-6

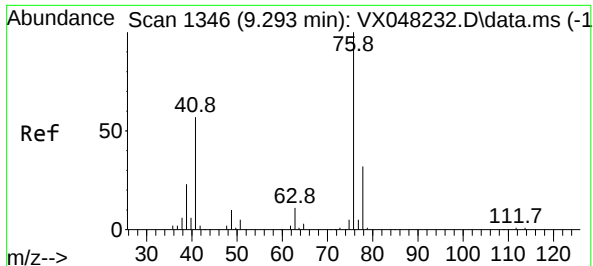
Tgt Ion: 43 Resp: 53866
Ion Ratio Lower Upper
43 100
58 7.0 29.5 44.3#



#54
cis-1,3-Dichloropropene
Concen: 7.531 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. 0.183 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 75 Resp: 22275
Ion Ratio Lower Upper
75 100
77 0.4 24.9 37.3#
39 37.3 42.6 64.0#





#57

1,3-Dichloropropane

Concen: 0.631 ug/l

RT: 9.464 min Scan# 1

Delta R.T. 0.171 min

Lab File: VX048348.D

Acq: 24 Oct 2025 12:47

Instrument :

MSVOA_X

ClientSampleId :

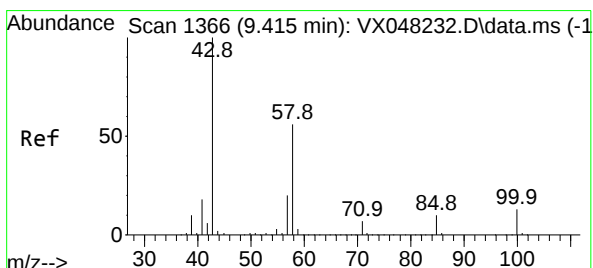
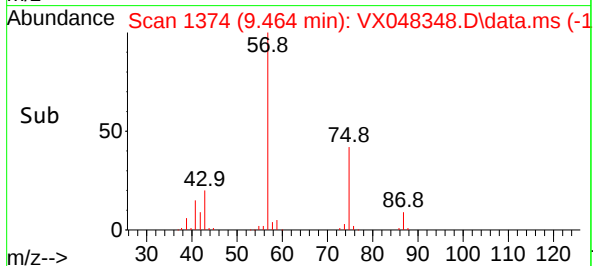
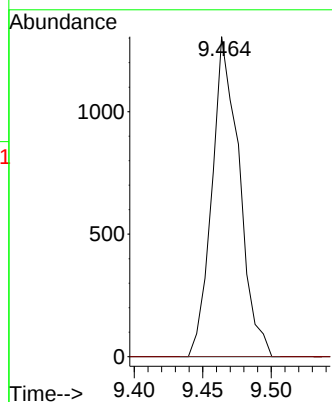
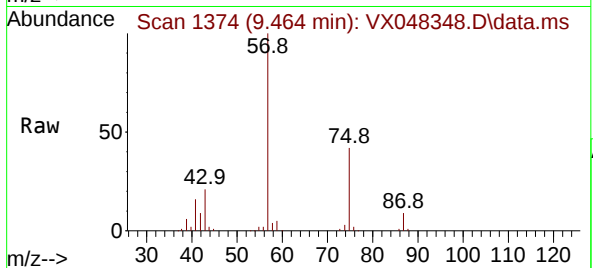
TP-6

Tgt Ion: 76 Resp: 1812

Ion Ratio Lower Upper

76 100

78 0.0 25.4 38.0#



#59

2-Hexanone

Concen: 19.860 ug/l

RT: 9.470 min Scan# 1375

Delta R.T. 0.055 min

Lab File: VX048348.D

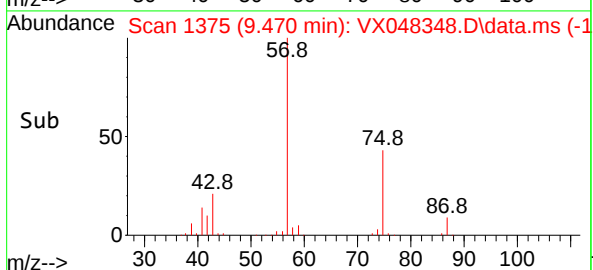
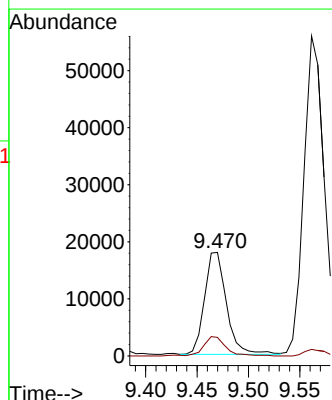
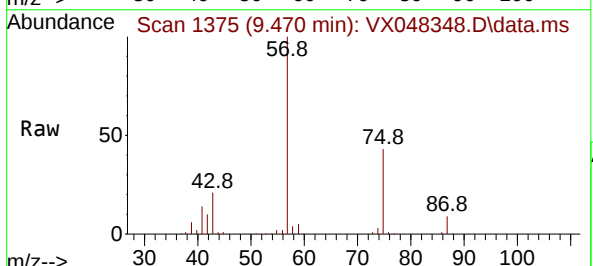
Acq: 24 Oct 2025 12:47

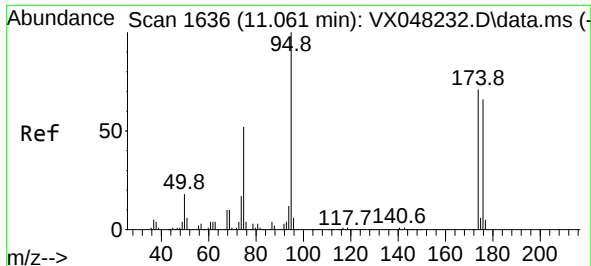
Tgt Ion: 43 Resp: 26633

Ion Ratio Lower Upper

43 100

58 19.4 26.3 78.8#

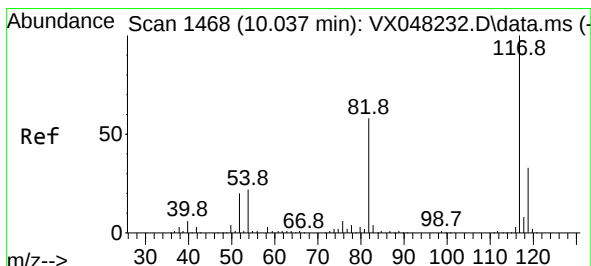
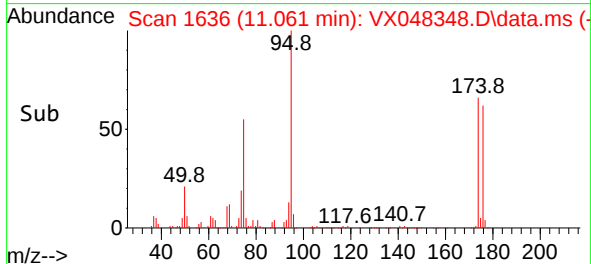
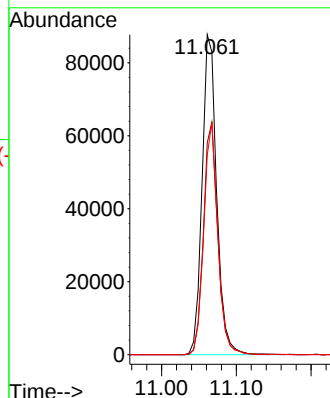
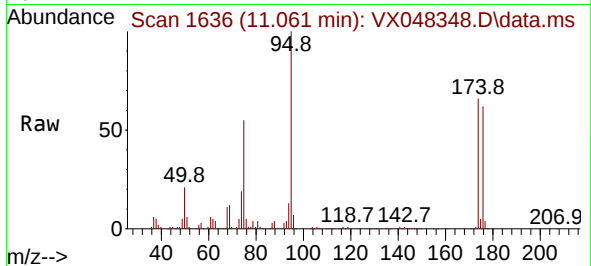




#62
4-Bromofluorobenzene
Concen: 51.593 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

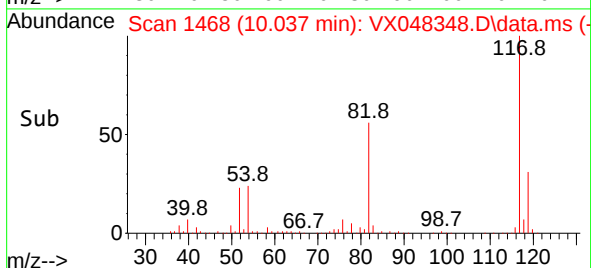
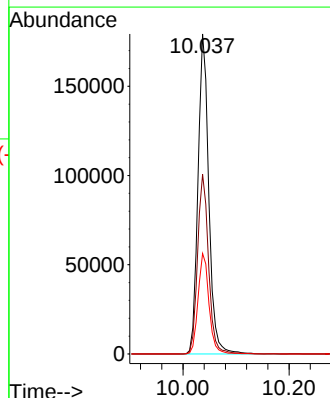
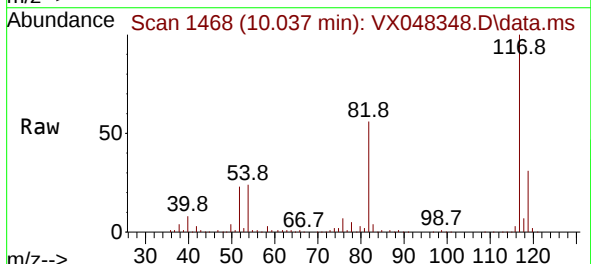
Instrument :
MSVOA_X
ClientSampleId :
TP-6

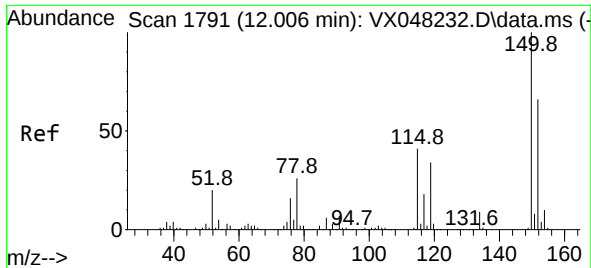
Tgt Ion: 95 Resp: 118583
Ion Ratio Lower Upper
95 100
174 71.7 0.0 147.8
176 69.6 0.0 142.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 117 Resp: 253174
Ion Ratio Lower Upper
117 100
82 56.2 46.5 69.7
119 31.4 25.9 38.9

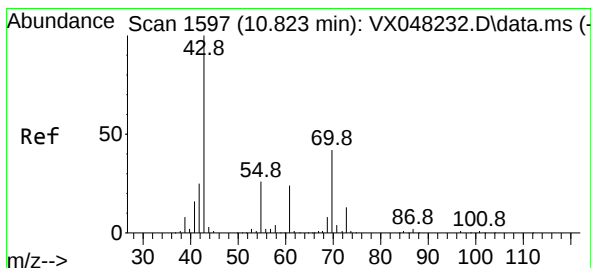
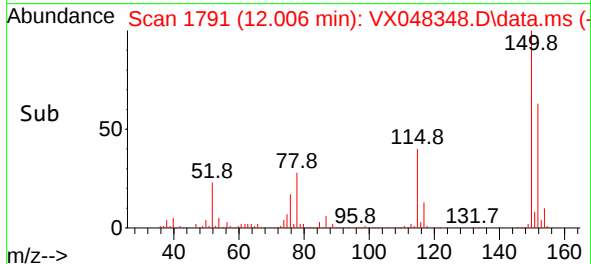
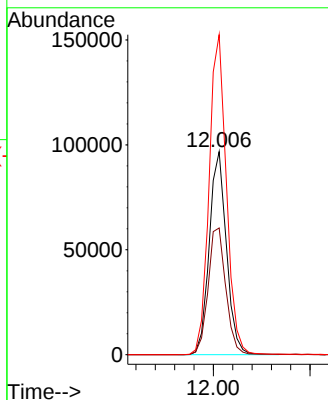
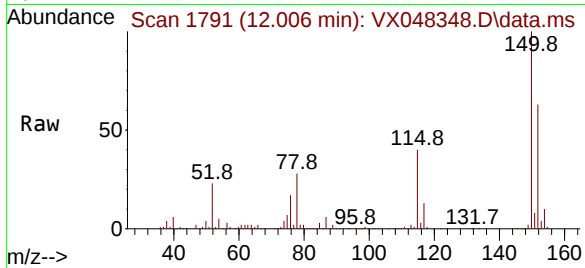




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX048348.D
 Acq: 24 Oct 2025 12:47

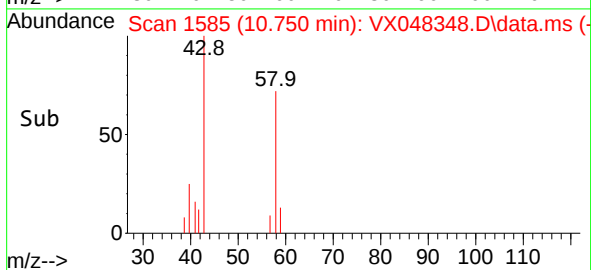
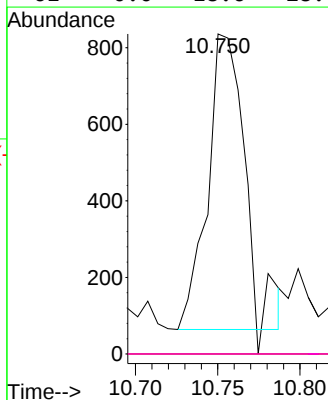
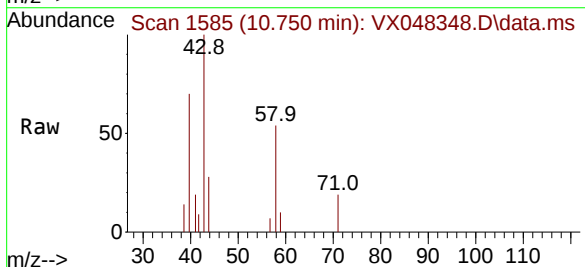
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-6

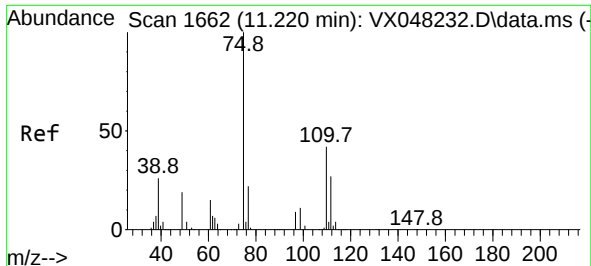
Tgt Ion:152 Resp: 119697
 Ion Ratio Lower Upper
 152 100
 115 64.6 43.1 129.4
 150 158.9 0.0 353.0



#74
 N-ethyl acetate
 Concen: 0.393 ug/l
 RT: 10.750 min Scan# 1585
 Delta R.T. -0.073 min
 Lab File: VX048348.D
 Acq: 24 Oct 2025 12:47

Tgt Ion: 43 Resp: 1219
 Ion Ratio Lower Upper
 43 100
 70 0.0 32.2 48.2#
 55 0.0 19.1 28.7#
 61 0.0 18.6 28.0#

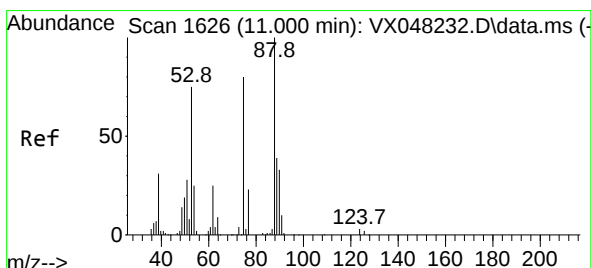
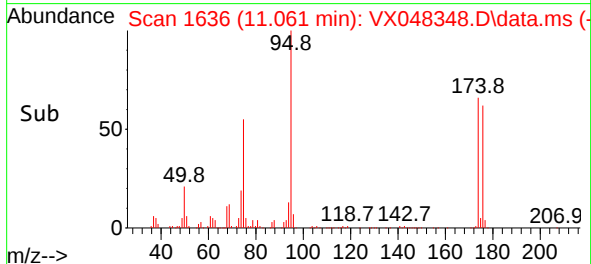
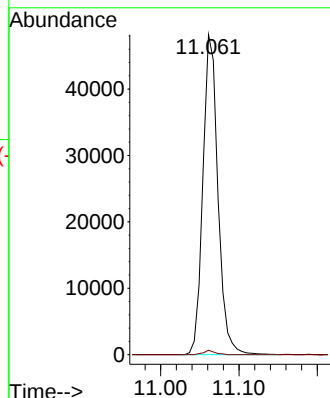
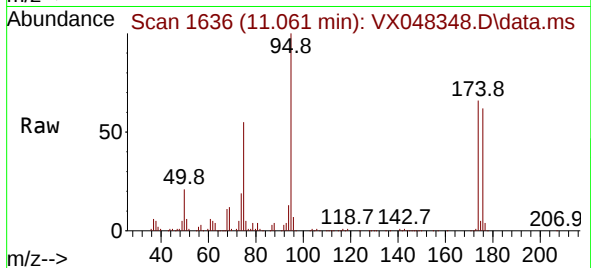




#76
1,2,3-Trichloropropane
Concen: 33.123 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.158 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

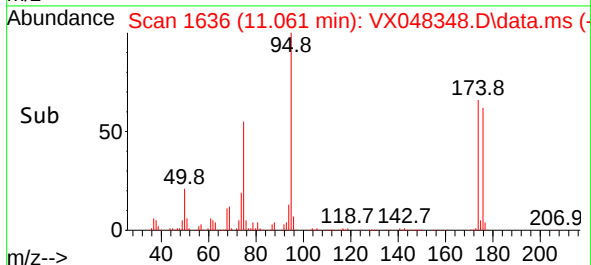
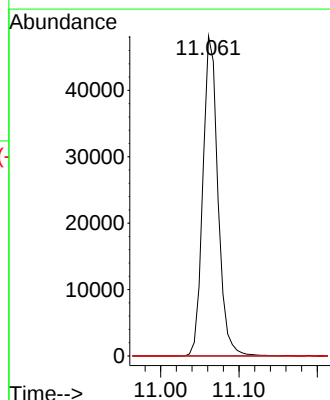
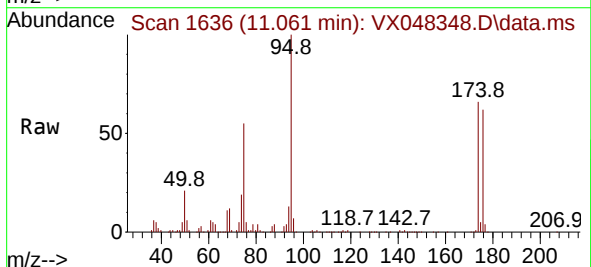
Instrument :
MSVOA_X
ClientSampleId :
TP-6

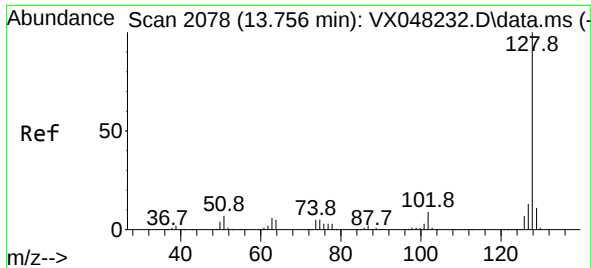
Tgt Ion: 75 Resp: 64295
Ion Ratio Lower Upper
75 100
77 1.0 22.4 67.2#



#81
trans-1,4-Dichloro-2-butene
Concen: 80.586 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048348.D
Acq: 24 Oct 2025 12:47

Tgt Ion: 75 Resp: 64295
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#





#95

Naphthalene

Concen: 0.325 ug/l

RT: 13.762 min Scan# 20

Delta R.T. 0.006 min

Lab File: VX048348.D

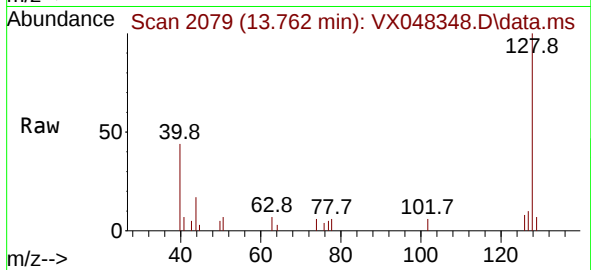
Acq: 24 Oct 2025 12:47

Instrument :

MSVOA_X

ClientSampleId :

TP-6



Tgt Ion:128 Resp: 2262

Ion Ratio Lower Upper

128 100

127 10.1 10.2 15.4#

129 9.4 8.6 12.8

