

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080825\
 Data File : VX047272.D
 Acq On : 08 Aug 2025 15:30
 Operator : JC/MD
 Sample : Q2798-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

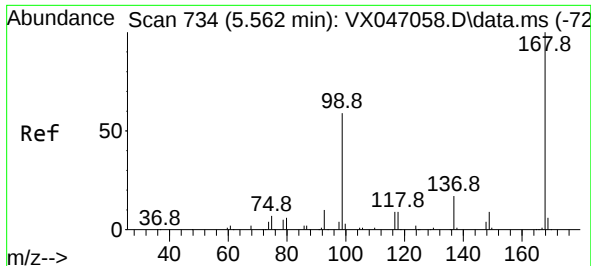
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-6

Quant Time: Aug 11 02:02:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.562	168	244003	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	420756	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	377952	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	193288	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	144563	47.561	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	95.120%
35) Dibromofluoromethane	5.397	113	127408	49.043	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	98.080%
50) Toluene-d8	8.653	98	364016	43.267	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	86.540%#
62) 4-Bromofluorobenzene	11.079	95	176833	48.773	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	97.540%
Target Compounds						
					Qvalue	
5) Bromomethane	1.636	94	588	0.314	ug/l	89
6) Chloroethane	1.709	64	1020	0.451	ug/l #	43
10) Methyl Iodide	2.477	142	1946	0.617	ug/l #	71
11) Tert butyl alcohol	2.959	59	270	Below Cal	#	72
13) Acrolein	2.246	56	139	0.212	ug/l #	79
16) Acetone	2.392	43	35688	29.309	ug/l	98
17) Carbon Disulfide	2.538	76	3598	0.406	ug/l	96
18) Methyl Acetate	2.715	43	27955	8.639	ug/l	100
20) Methylene Chloride	2.806	84	35358	10.555	ug/l	98
25) 2-Butanone	4.605	43	3803	2.145	ug/l #	84
31) Cyclohexane	5.568	56	5697	1.003	ug/l #	17
36) 1,1-Dichloropropene	5.556	75	20893	4.718	ug/l #	51
37) Ethyl Acetate	4.739	43	17041	4.176	ug/l	97
38) Carbon Tetrachloride	5.562	117	26256	5.555	ug/l #	17
43) Isopropyl Acetate	6.355	43	12572	1.976	ug/l #	90
48) Methyl methacrylate	7.799	41	108317	31.256	ug/l #	46
49) 1,4-Dioxane	7.799	88	86	2.182	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	151158	39.977	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	69225	13.980	ug/l #	61
57) 1,3-Dichloropropane	9.482	76	4708	0.917	ug/l #	43
59) 2-Hexanone	9.482	43	66110	26.464	ug/l #	53
74) N-amyl acetate	10.872	43	1305	0.212	ug/l #	47
76) 1,2,3-Trichloropropane	11.079	75	91736	25.641	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	91736	66.062	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.756	75	257	0.307	ug/l #	2

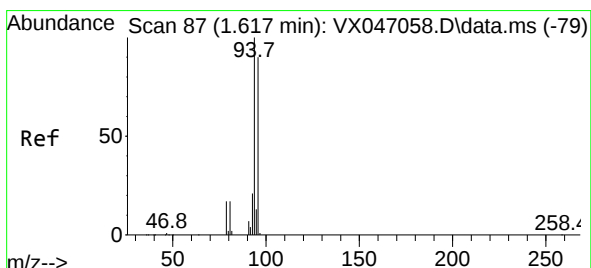
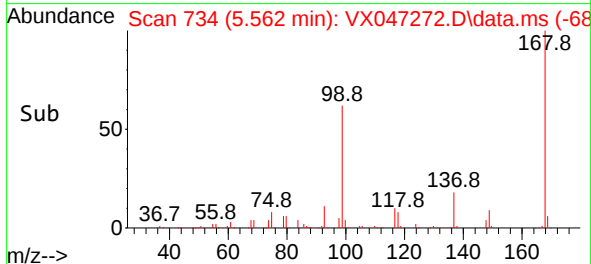
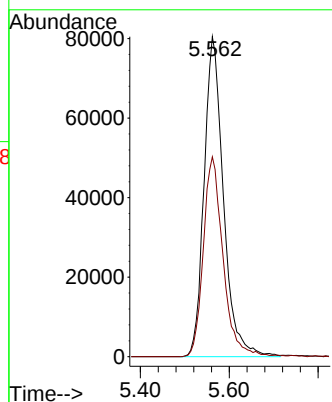
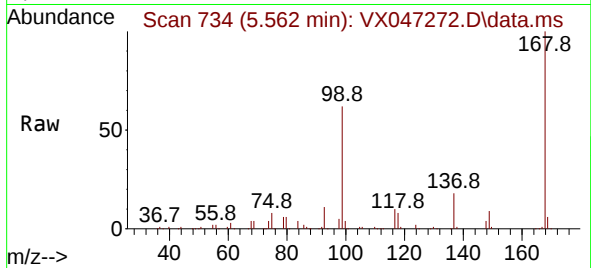
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

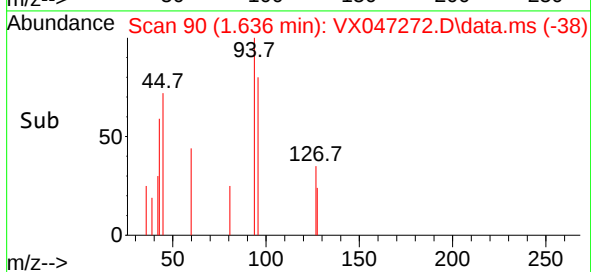
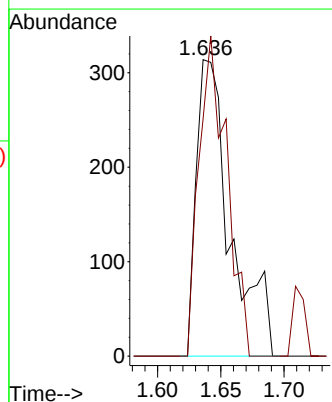
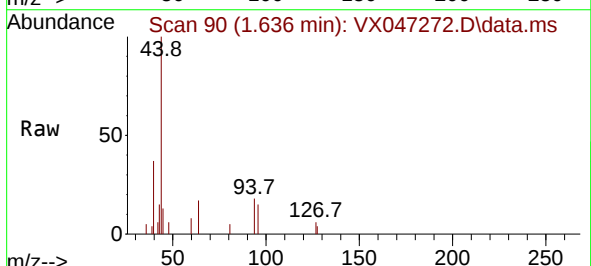
Instrument :
MSVOA_X
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TP-6

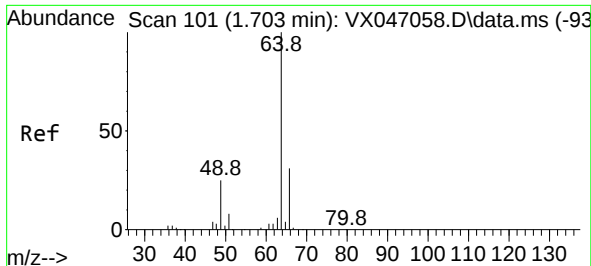
Tgt Ion:168 Resp: 244003
Ion Ratio Lower Upper
168 100
99 62.5 48.0 72.0



#5
Bromomethane
Concen: 0.314 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.019 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 94 Resp: 588
Ion Ratio Lower Upper
94 100
96 79.9 72.3 108.5

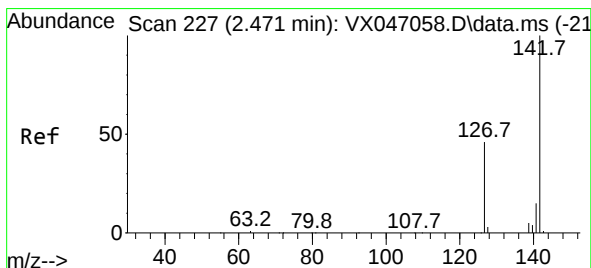
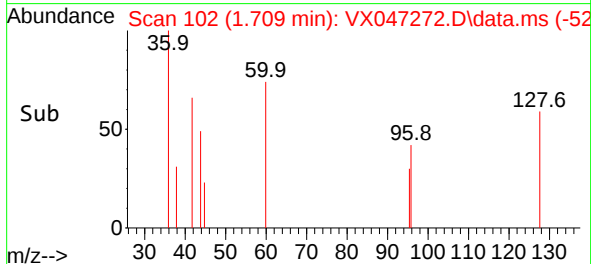
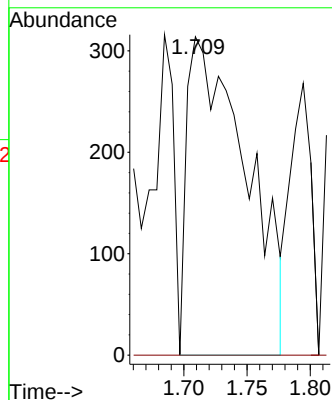
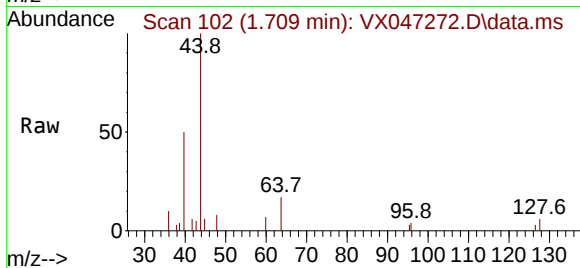




#6
Chloroethane
Concen: 0.451 ug/l
RT: 1.709 min Scan# 10
Delta R.T. 0.007 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

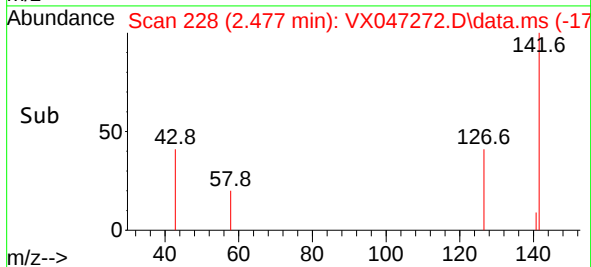
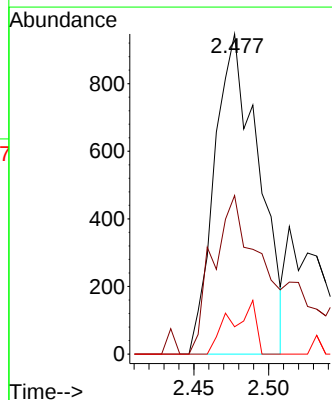
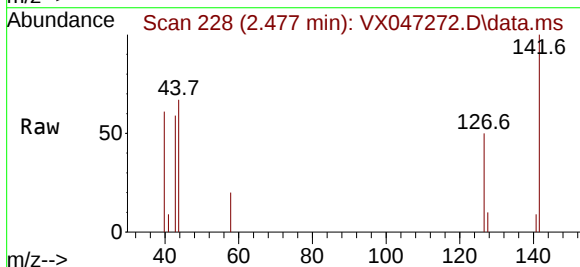
Instrument :
MSVOA_X
ClientSampleId :
TP-6

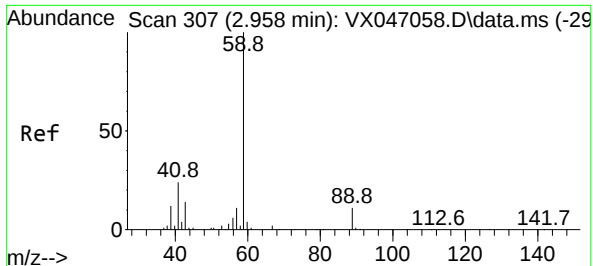
Tgt Ion: 64 Resp: 1020
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#10
Methyl Iodide
Concen: 0.617 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.007 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 142 Resp: 1946
Ion Ratio Lower Upper
142 100
127 68.3 36.6 54.8#
141 9.6 10.9 16.3#





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.959 min Scan# 307

Delta R.T. 0.001 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

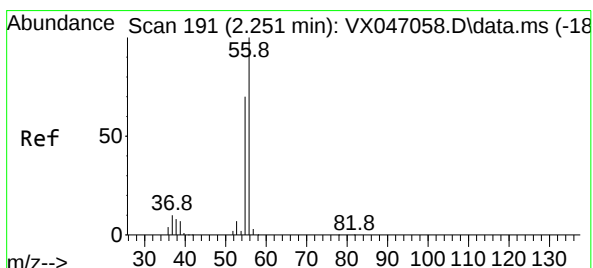
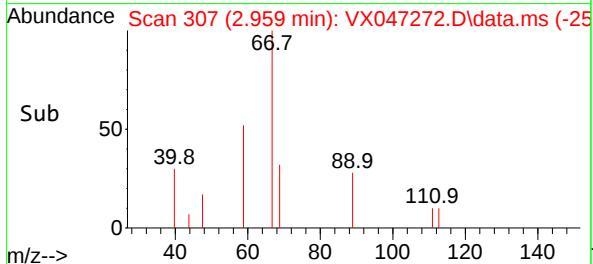
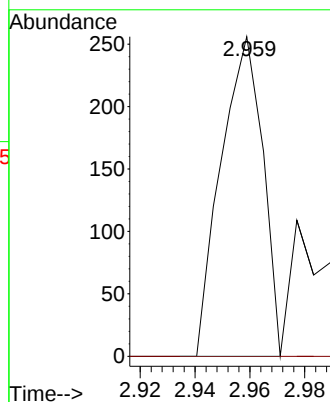
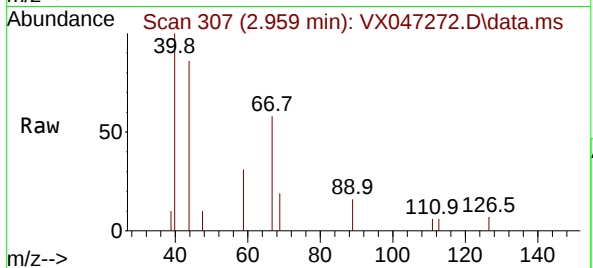
TP-6

Tgt Ion: 59 Resp: 270

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 0.212 ug/l

RT: 2.246 min Scan# 190

Delta R.T. -0.006 min

Lab File: VX047272.D

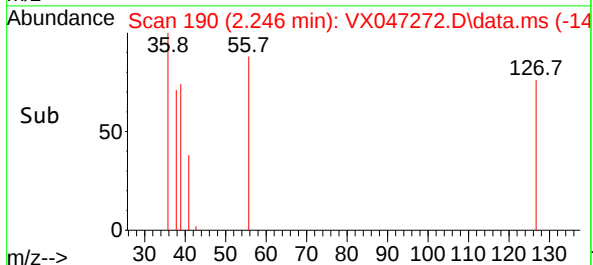
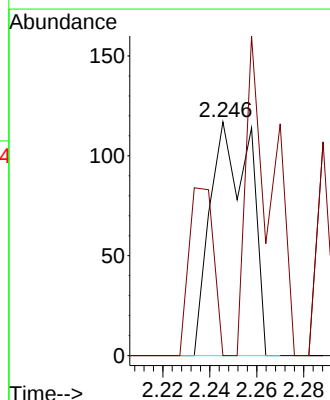
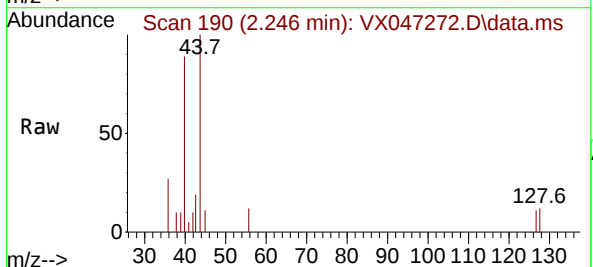
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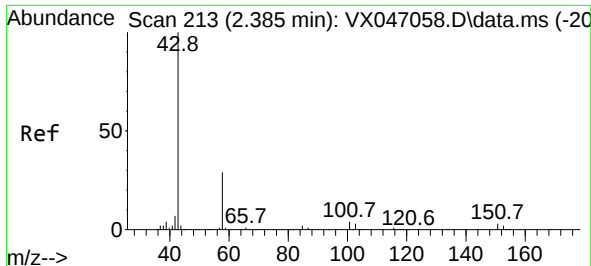
Tgt Ion: 56 Resp: 139

Ion Ratio Lower Upper

56 100

55 87.1 55.7 83.5#

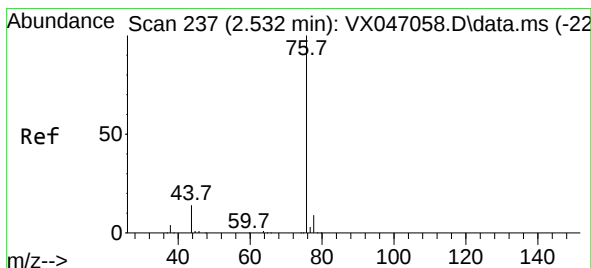
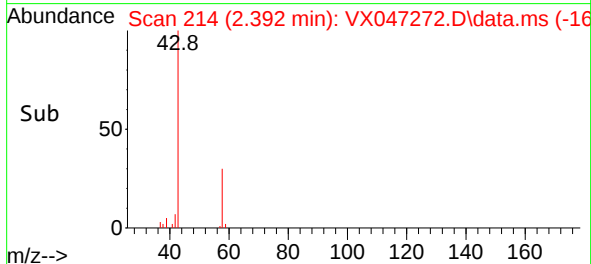
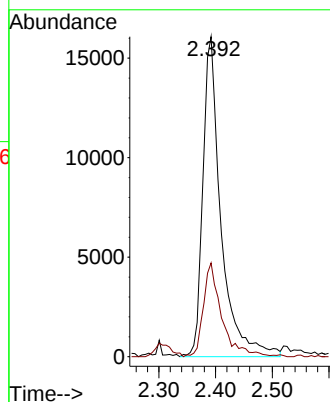
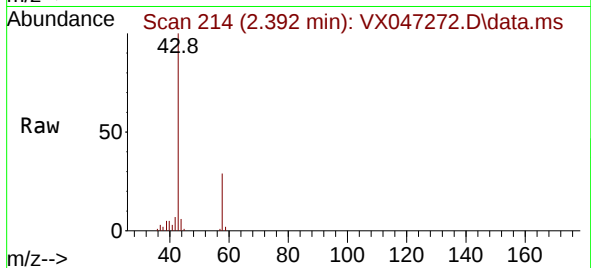




#16
Acetone
Concen: 29.309 ug/l
RT: 2.392 min Scan# 214
Delta R.T. 0.007 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

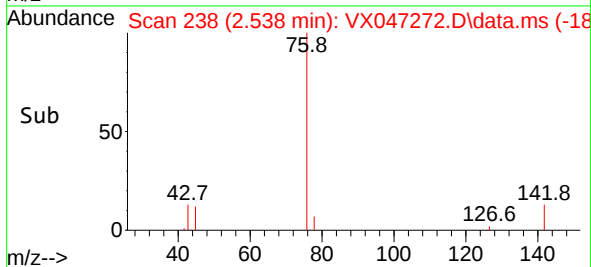
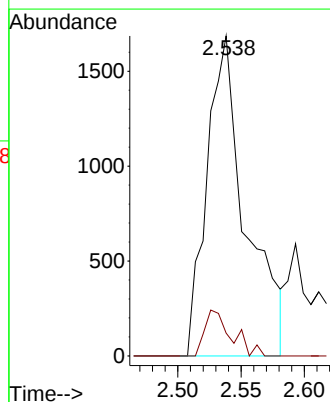
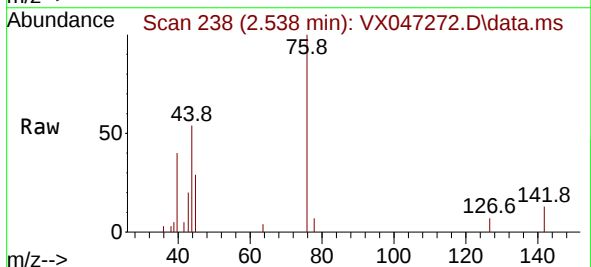
Instrument :
MSVOA_X
ClientSampleId :
TP-6

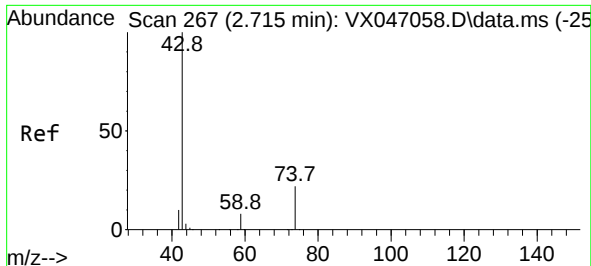
Tgt Ion: 43 Resp: 35688
Ion Ratio Lower Upper
43 100
58 28.7 24.0 36.0



#17
Carbon Disulfide
Concen: 0.406 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.007 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 76 Resp: 3598
Ion Ratio Lower Upper
76 100
78 7.1 7.0 10.4

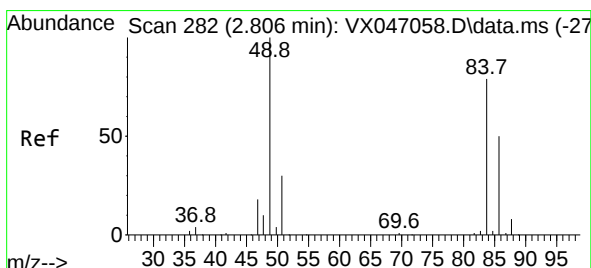
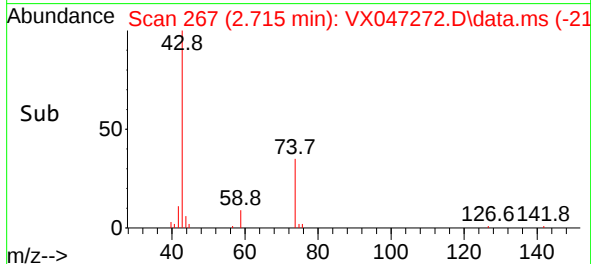
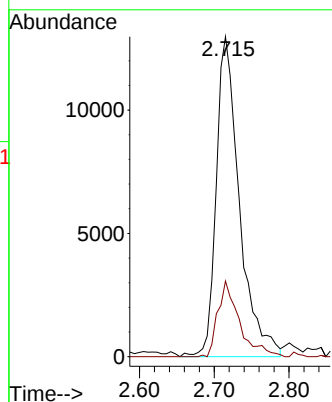
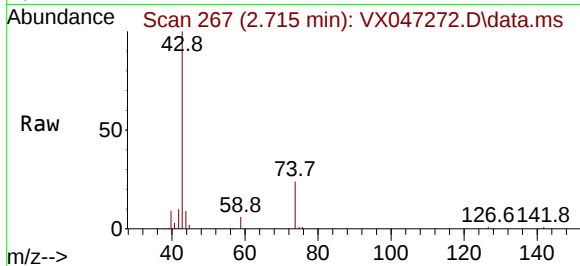




#18
Methyl Acetate
Concen: 8.639 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

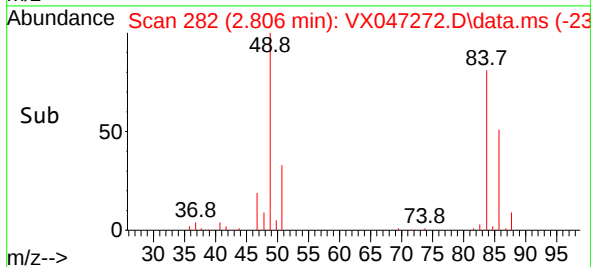
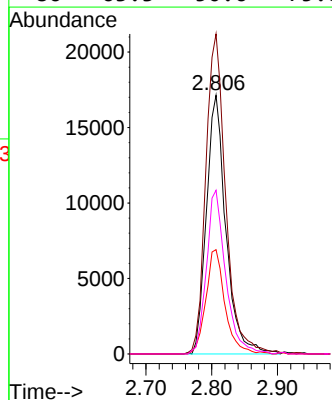
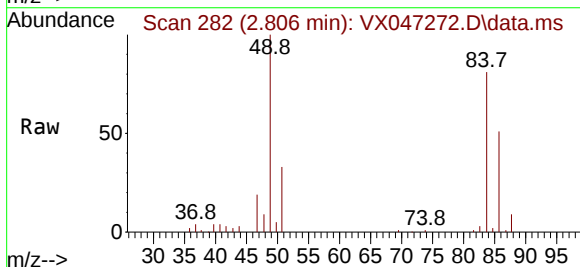
Instrument :
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ClientSampleId :
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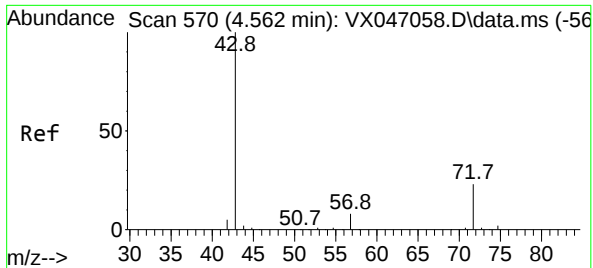
Tgt Ion: 43 Resp: 27955
Ion Ratio Lower Upper
43 100
74 22.0 17.7 26.5



#20
Methylene Chloride
Concen: 10.555 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 84 Resp: 35358
Ion Ratio Lower Upper
84 100
49 123.7 101.6 152.4
51 40.3 30.3 45.5
86 63.3 50.6 75.8

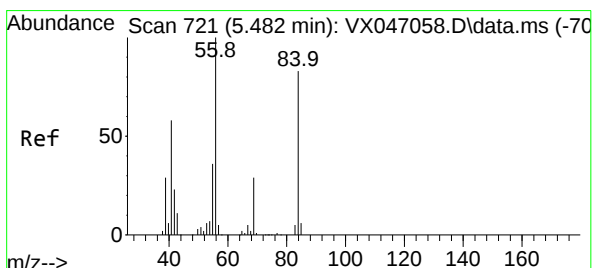
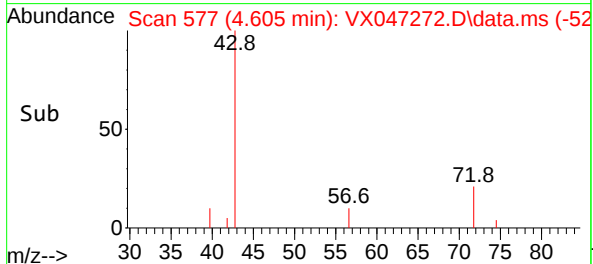
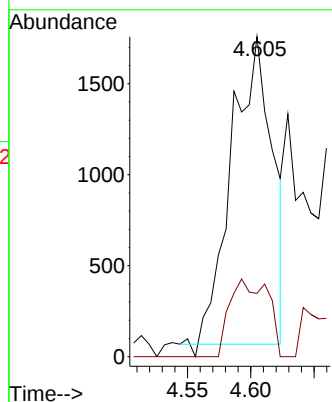
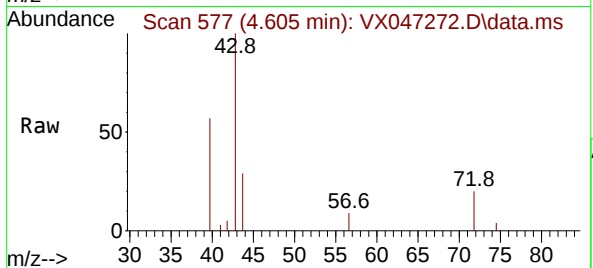




#25
2-Butanone
Concen: 2.145 ug/l
RT: 4.605 min Scan# 51
Delta R.T. 0.043 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

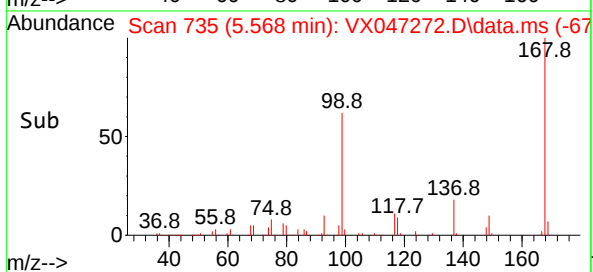
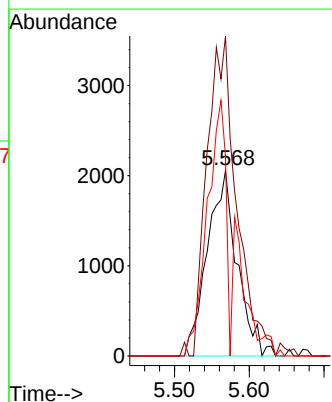
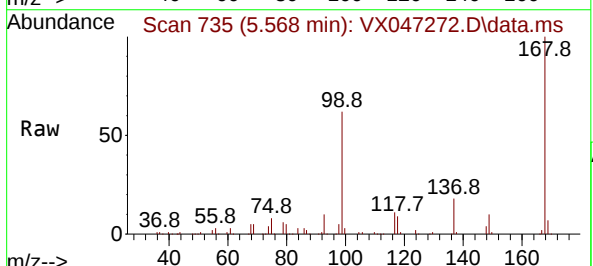
Instrument :
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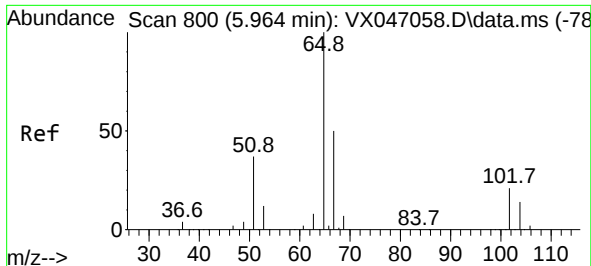
Tgt Ion: 43 Resp: 3803
Ion Ratio Lower Upper
43 100
72 15.8 18.8 28.2#



#31
Cyclohexane
Concen: 1.003 ug/l
RT: 5.568 min Scan# 735
Delta R.T. 0.086 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 56 Resp: 5697
Ion Ratio Lower Upper
56 100
69 165.3 23.3 34.9#
84 103.2 66.5 99.7#

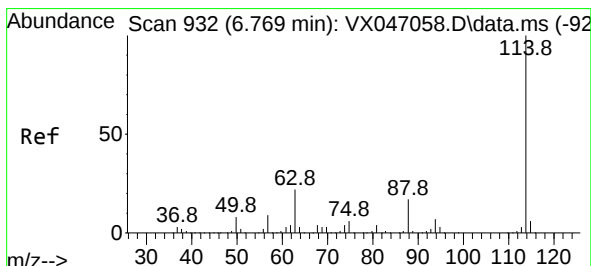
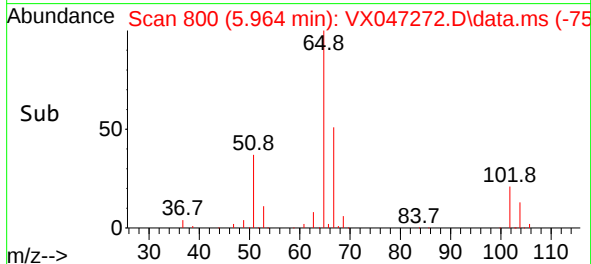
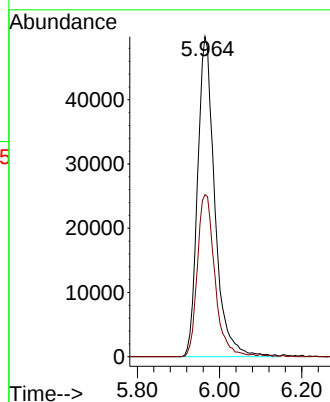
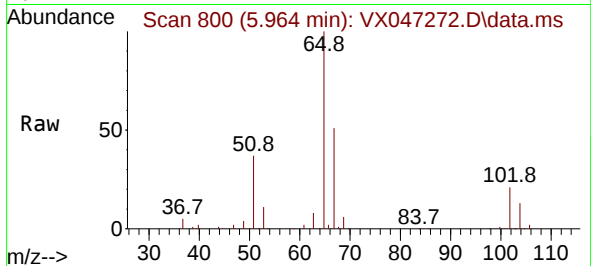




#33
 1,2-Dichloroethane-d4
 Concen: 47.561 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.000 min
 Lab File: VX047272.D
 Acq: 08 Aug 2025 15:30

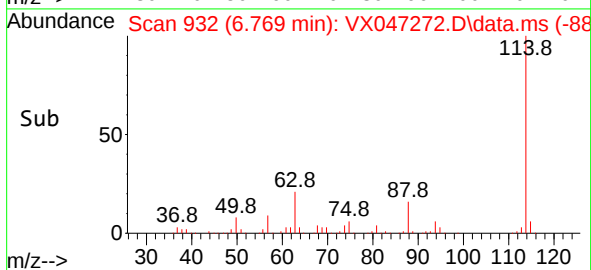
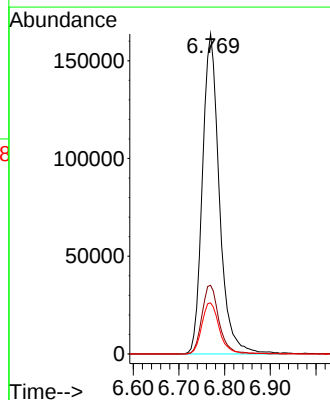
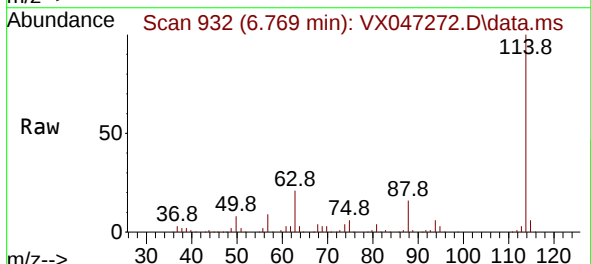
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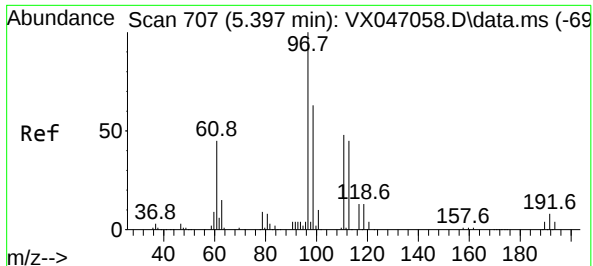
Tgt Ion: 65 Resp: 144563
 Ion Ratio Lower Upper
 65 100
 67 51.6 0.0 104.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047272.D
 Acq: 08 Aug 2025 15:30

Tgt Ion: 114 Resp: 420756
 Ion Ratio Lower Upper
 114 100
 63 21.4 0.0 43.2
 88 15.9 0.0 33.8

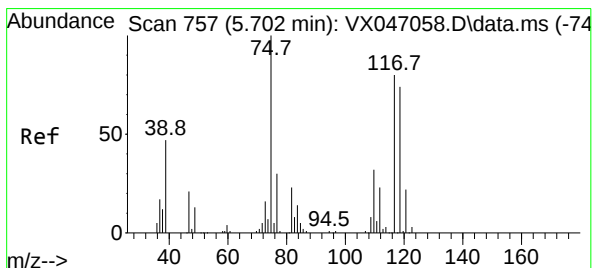
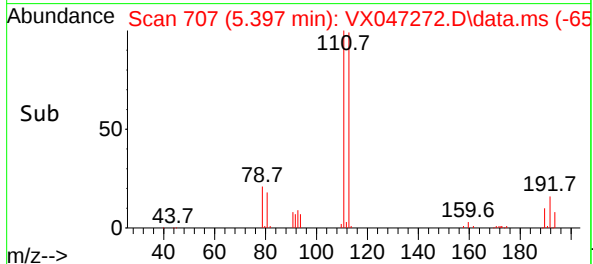
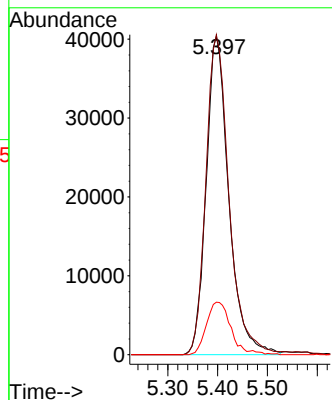
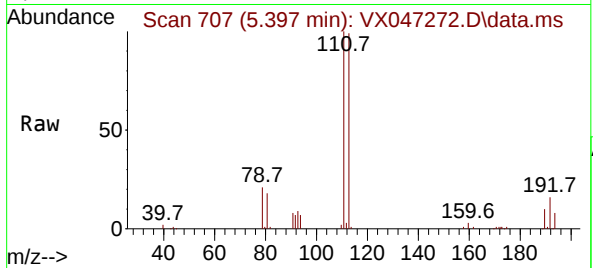




#35
Dibromofluoromethane
Concen: 49.043 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

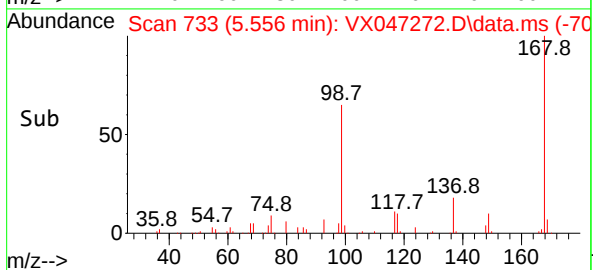
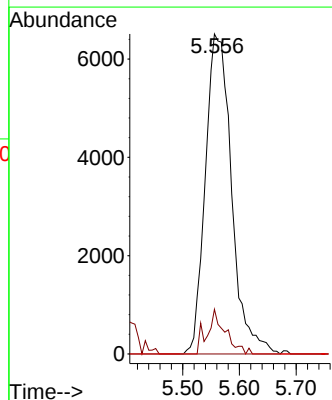
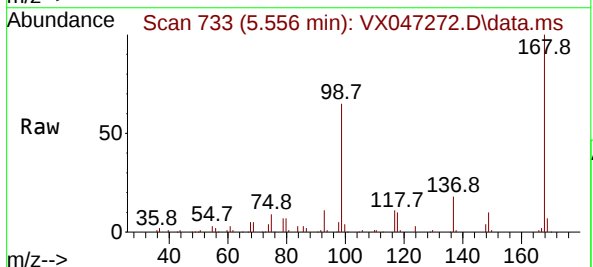
Instrument :
MSVOA_X
ClientSampleId :
TP-6

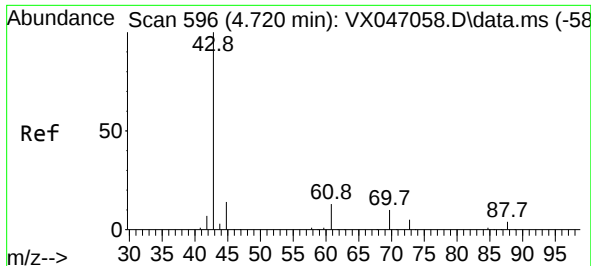
Tgt Ion:113 Resp: 127408
Ion Ratio Lower Upper
113 100
111 103.0 82.6 124.0
192 17.9 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.718 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.146 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 75 Resp: 20893
Ion Ratio Lower Upper
75 100
110 9.7 17.2 51.5#
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 4.176 ug/l

RT: 4.739 min Scan# 596

Delta R.T. 0.019 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

TP-6

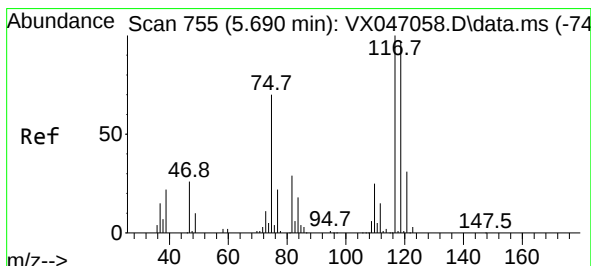
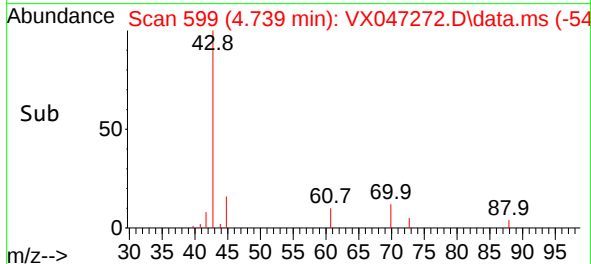
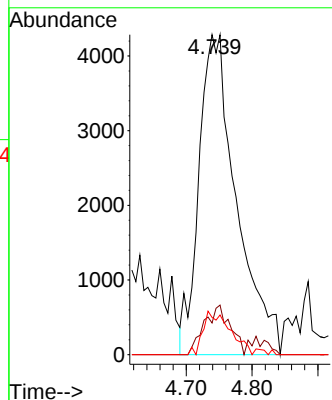
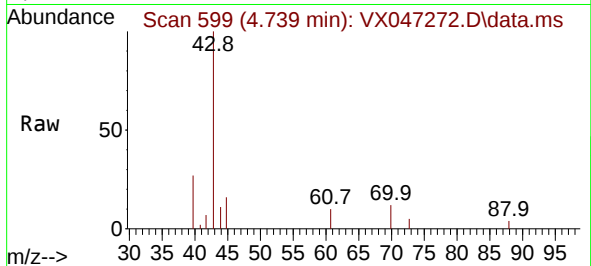
Tgt Ion: 43 Resp: 17041

Ion Ratio Lower Upper

43 100

61 10.7 10.2 15.2

70 9.7 8.1 12.1



#38

Carbon Tetrachloride

Concen: 5.555 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.128 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

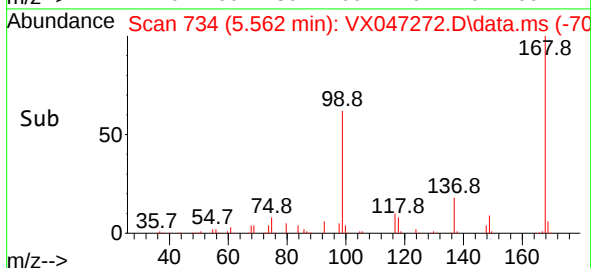
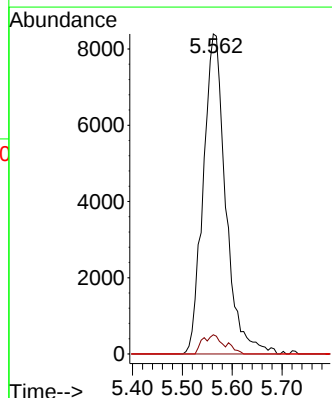
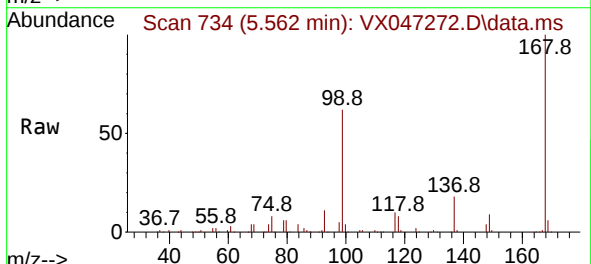
Tgt Ion: 117 Resp: 26256

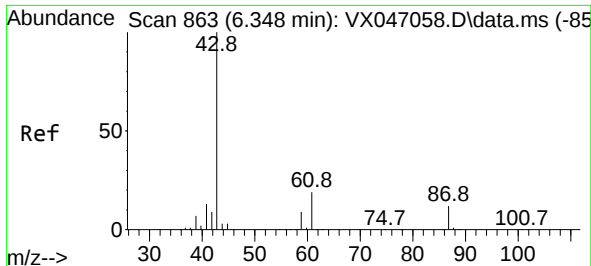
Ion Ratio Lower Upper

117 100

119 6.0 76.6 115.0#

121 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 1.976 ug/l

RT: 6.355 min Scan# 8

Delta R.T. 0.007 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

TP-6

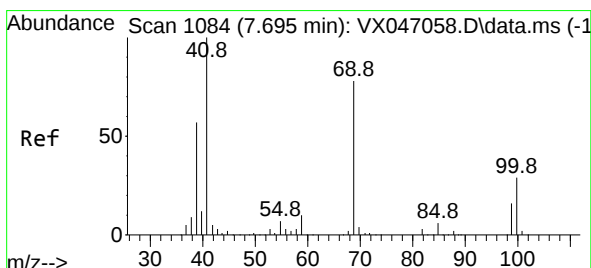
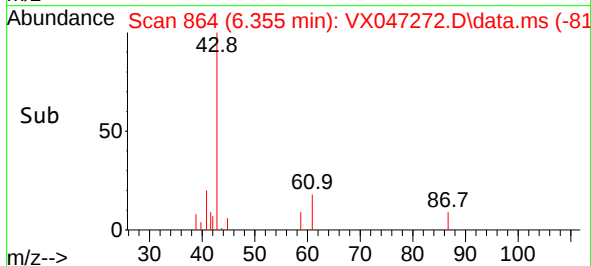
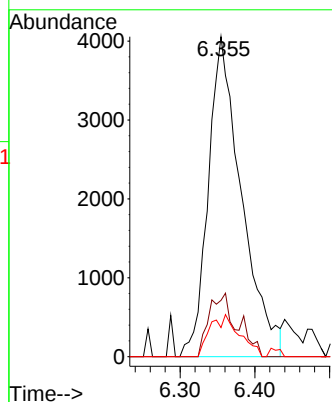
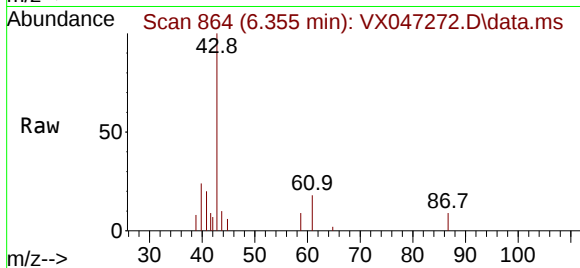
Tgt Ion: 43 Resp: 12572

Ion Ratio Lower Upper

43 100

61 16.9 15.1 22.7

87 5.0 9.7 14.5#



#48

Methyl methacrylate

Concen: 31.256 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.104 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

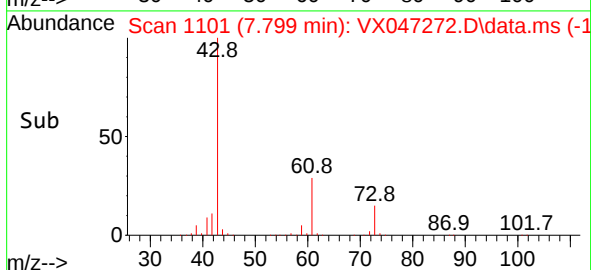
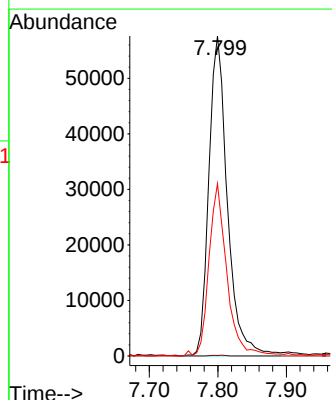
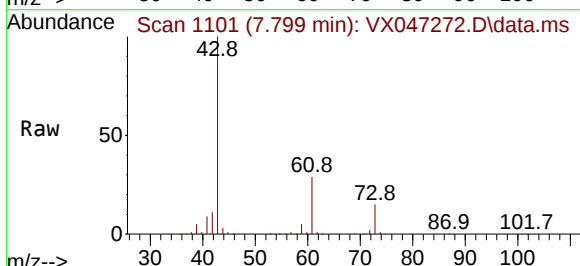
Tgt Ion: 41 Resp: 108317

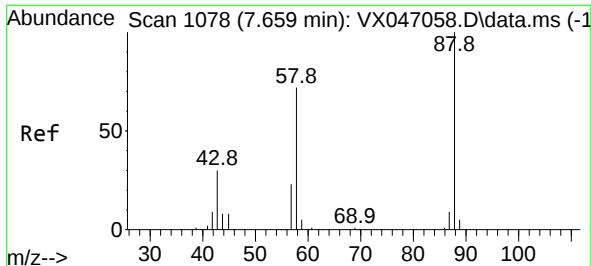
Ion Ratio Lower Upper

41 100

69 0.2 62.3 93.5#

39 52.7 44.8 67.2

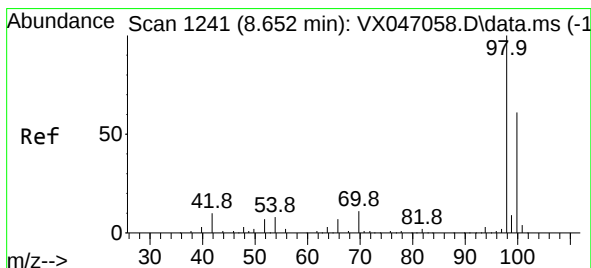
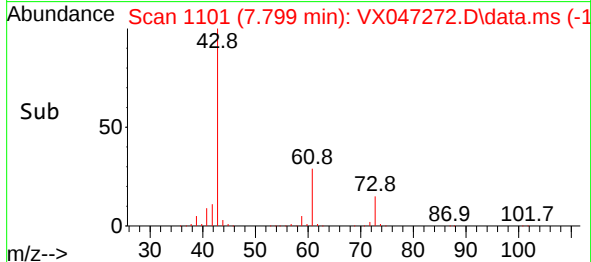
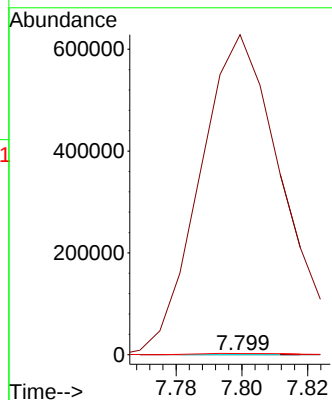
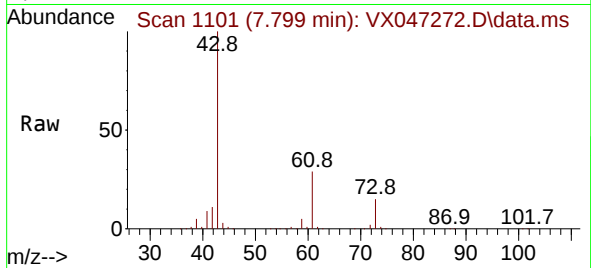




#49
1,4-Dioxane
Concen: 2.182 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.141 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

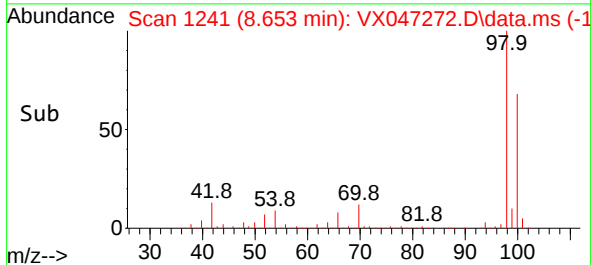
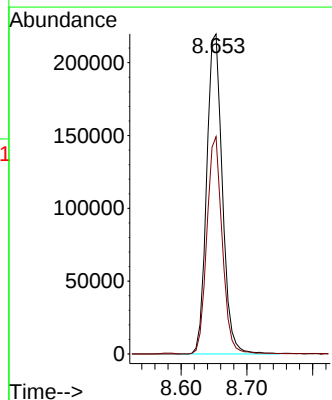
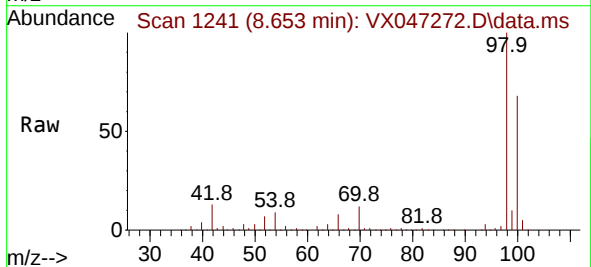
Instrument :
MSVOA_X
ClientSampleId :
TP-6

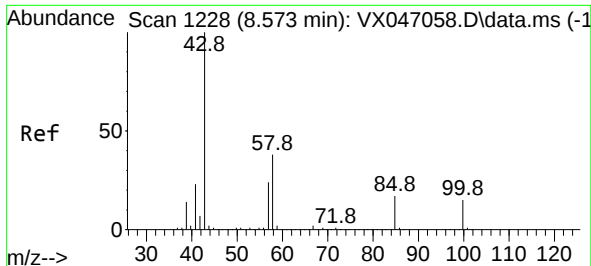
Tgt Ion: 88 Resp: 86
Ion Ratio Lower Upper
88 100
43 1349252.3 33.6 50.4#
58 5991.9 58.8 88.2#



#50
Toluene-d8
Concen: 43.267 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 98 Resp: 364016
Ion Ratio Lower Upper
98 100
100 66.8 53.3 79.9

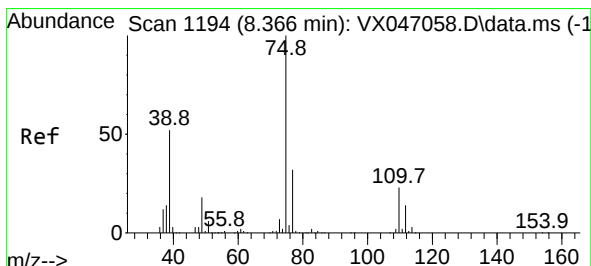
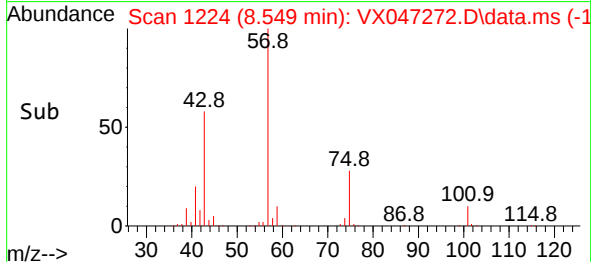
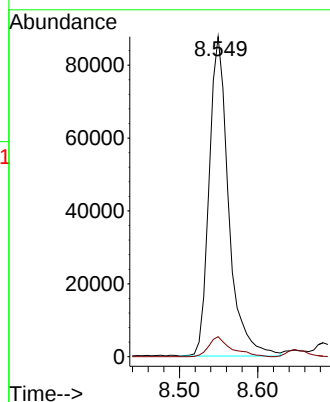
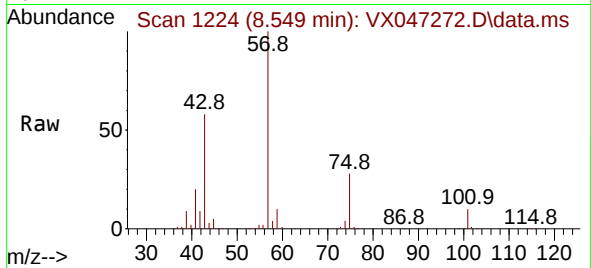




#51
4-Methyl-2-Pentanone
Concen: 39.977 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

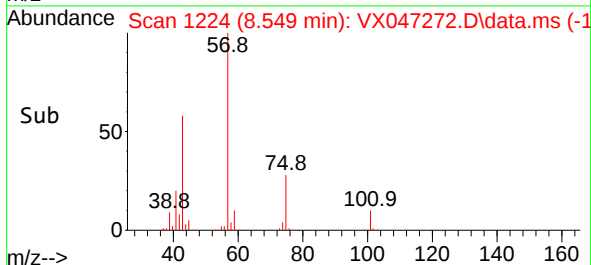
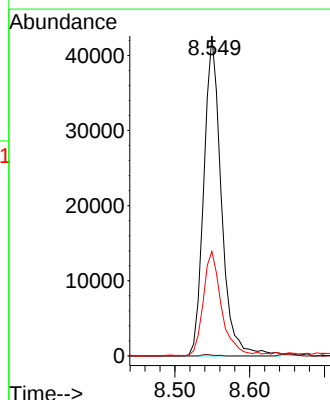
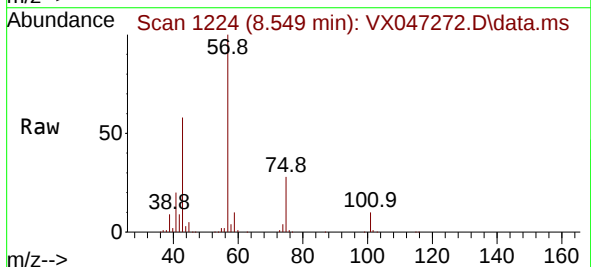
Instrument :
MSVOA_X
ClientSampleId :
TP-6

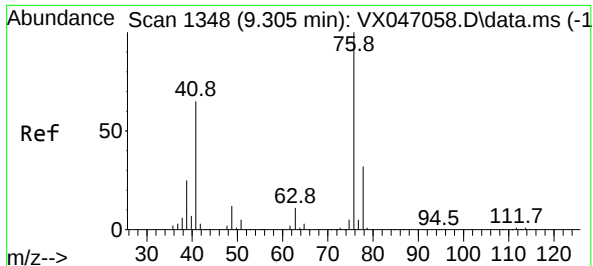
Tgt Ion: 43 Resp: 151158
Ion Ratio Lower Upper
43 100
58 7.2 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 13.980 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 75 Resp: 69225
Ion Ratio Lower Upper
75 100
77 0.2 25.4 38.0#
39 31.9 41.8 62.6#





#57

1,3-Dichloropropane

Concen: 0.917 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

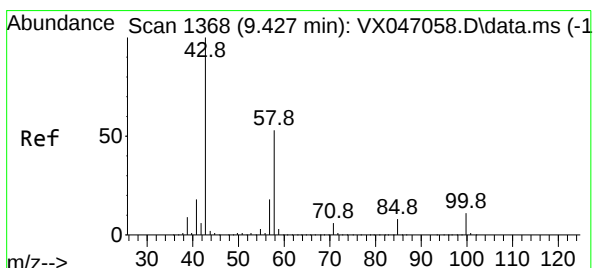
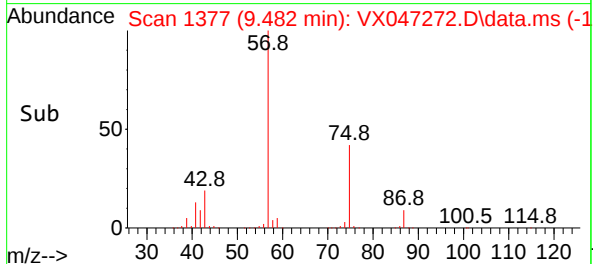
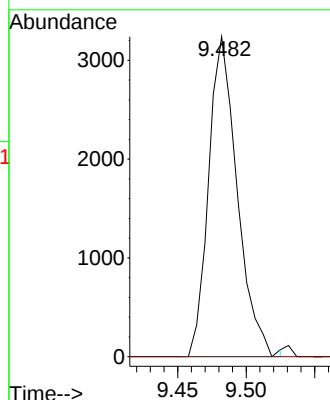
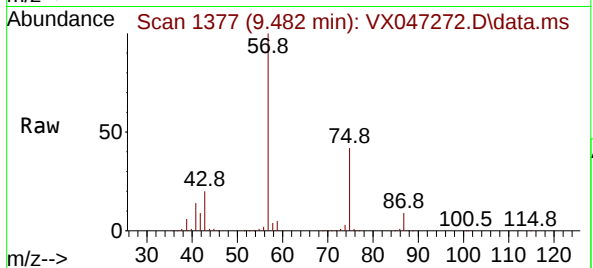
TP-6

Tgt Ion: 76 Resp: 4708

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 26.464 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.055 min

Lab File: VX047272.D

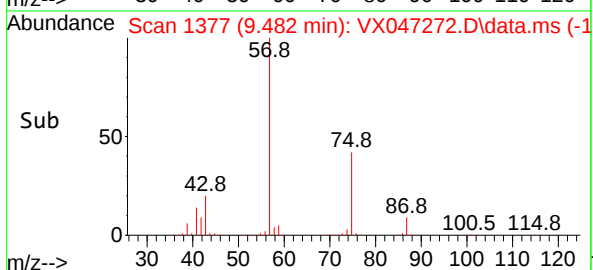
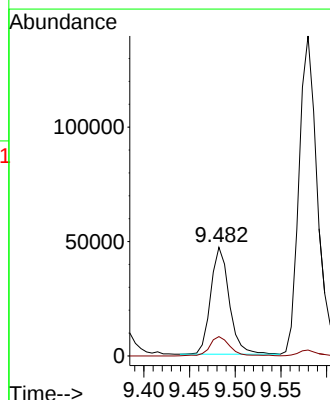
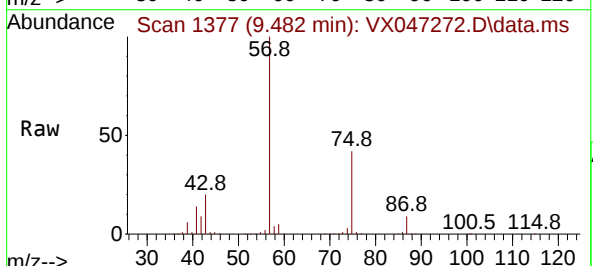
Acq: 08 Aug 2025 15:30

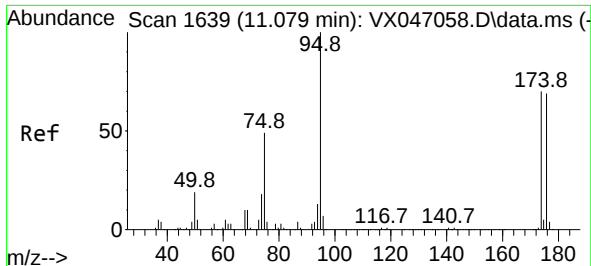
Tgt Ion: 43 Resp: 66110

Ion Ratio Lower Upper

43 100

58 20.0 26.5 79.5#





#62

4-Bromofluorobenzene

Concen: 48.773 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

Instrument :

MSVOA_X

ClientSampleId :

TP-6

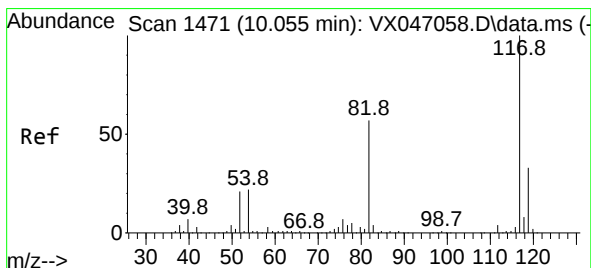
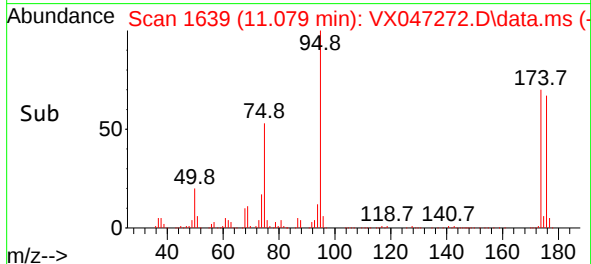
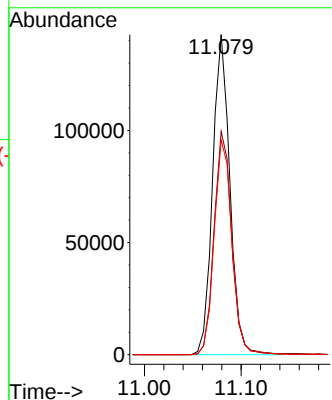
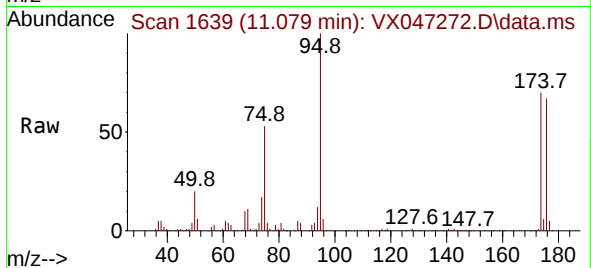
Tgt Ion: 95 Resp: 176833

Ion Ratio Lower Upper

95 100

174 71.4 0.0 144.6

176 69.4 0.0 139.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047272.D

Acq: 08 Aug 2025 15:30

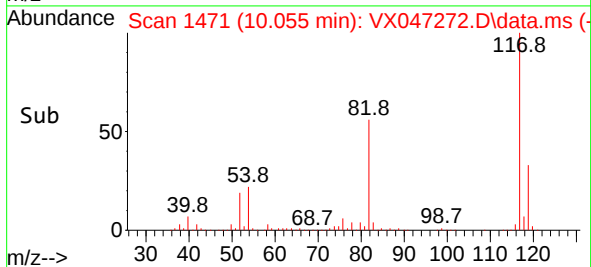
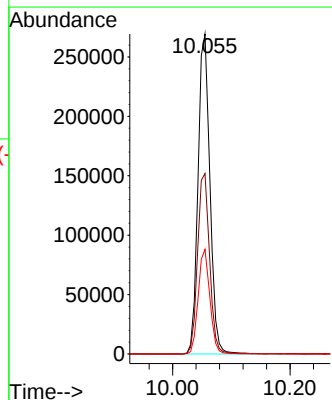
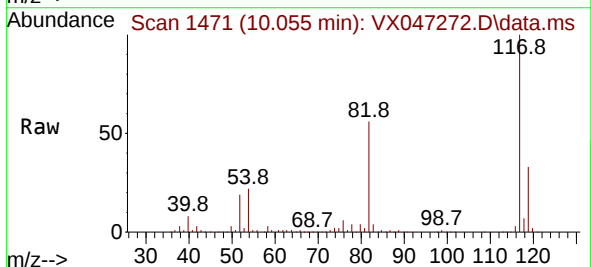
Tgt Ion: 117 Resp: 377952

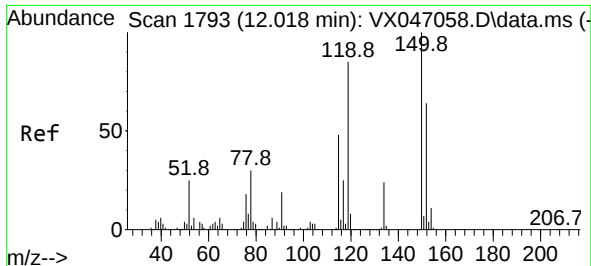
Ion Ratio Lower Upper

117 100

82 56.4 45.4 68.2

119 32.7 26.1 39.1

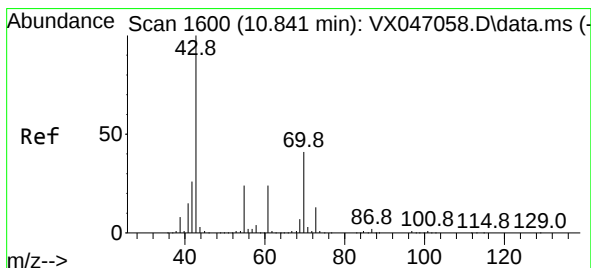
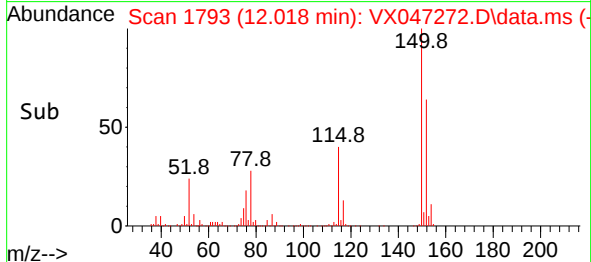
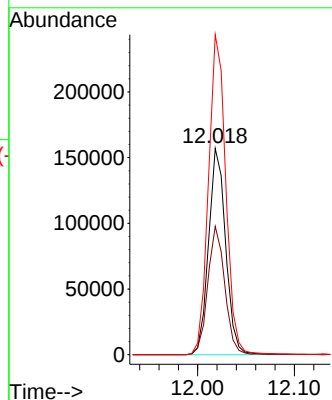
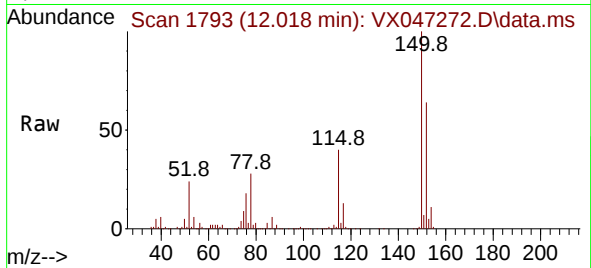




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

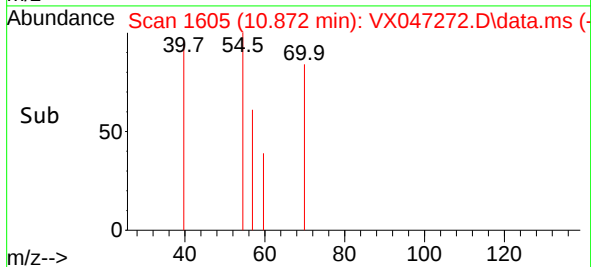
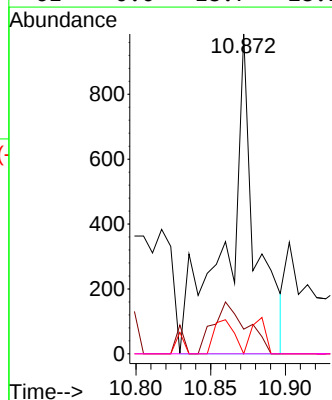
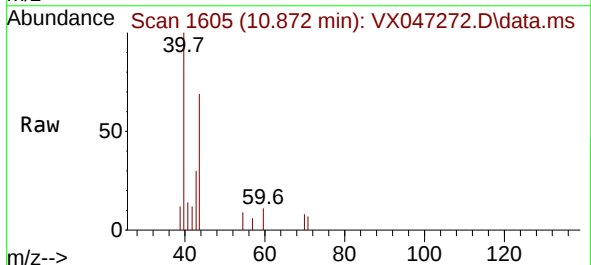
Instrument :
MSVOA_X
ClientSampleId :
TP-6

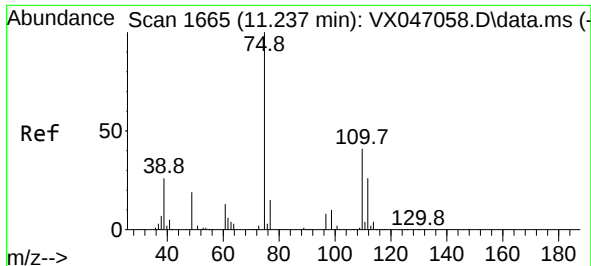
Tgt Ion:152 Resp: 193288
Ion Ratio Lower Upper
152 100
115 62.2 45.6 136.7
150 156.9 0.0 354.6



#74
N-ethyl acetate
Concen: 0.212 ug/l
RT: 10.872 min Scan# 1605
Delta R.T. 0.031 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 43 Resp: 1305
Ion Ratio Lower Upper
43 100
70 0.0 32.3 48.5#
55 5.6 18.9 28.3#
61 0.0 18.7 28.1#

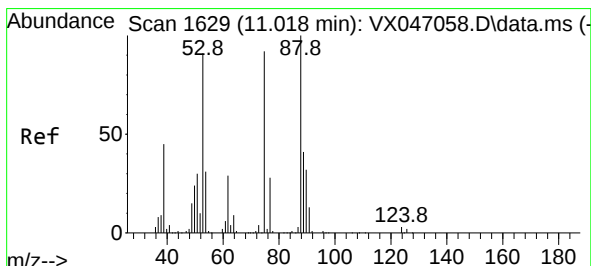
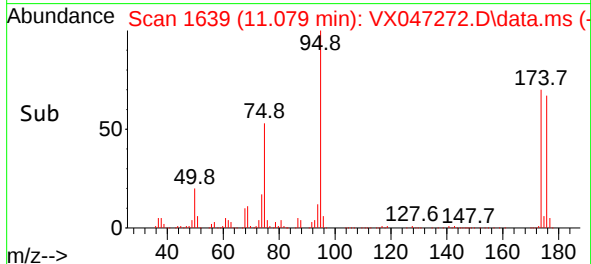
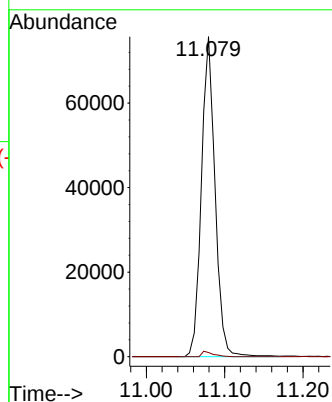
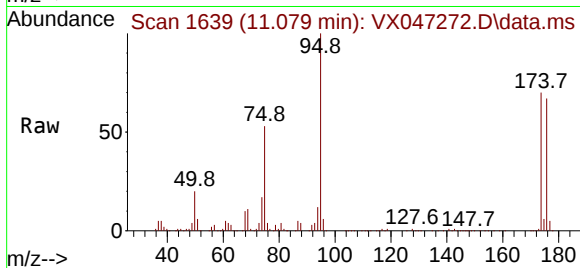




#76
1,2,3-Trichloropropane
Concen: 25.641 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.158 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

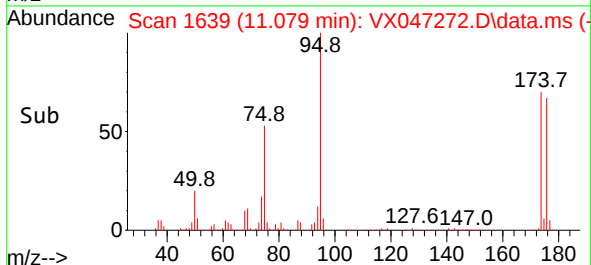
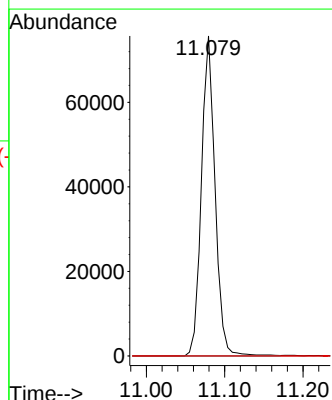
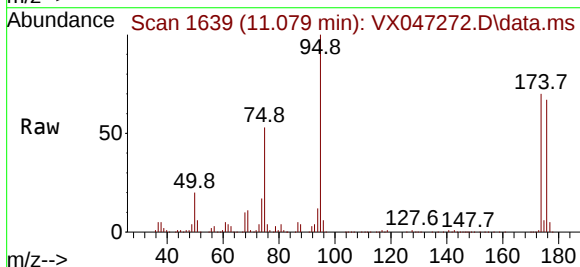
Instrument :
MSVOA_X
ClientSampleId :
TP-6

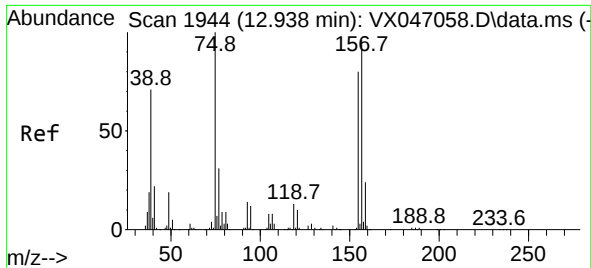
Tgt Ion: 75 Resp: 91736
Ion Ratio Lower Upper
75 100
77 1.4 21.6 65.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.062 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Tgt Ion: 75 Resp: 91736
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#





#92
1,2-Dibromo-3-Chloropropane
Concen: 0.307 ug/l
RT: 12.756 min Scan# 1914
Delta R.T. -0.182 min
Lab File: VX047272.D
Acq: 08 Aug 2025 15:30

Instrument :
MSVOA_X
ClientSampleId :
TP-6

Tgt Ion:	75	Resp:	257
Ion	Ratio	Lower	Upper
75	100		
155	0.0	41.3	124.1#
157	0.0	52.8	158.3#

