

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX090225\
 Data File : VX047580.D
 Acq On : 02 Sep 2025 13:44
 Operator : JC/MD
 Sample : Q2996-06
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

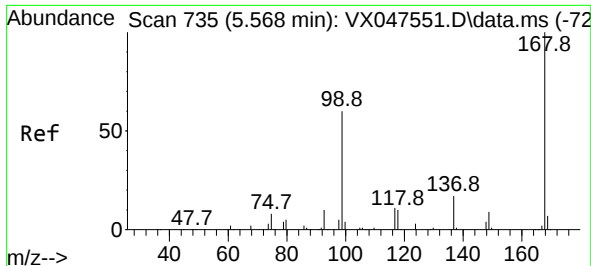
Instrument :
 MSVOA_X
 ClientSampleId :
 CONTAINMENT-C

Quant Time: Sep 03 02:16:42 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X082825W.M
 Quant Title : SW846 8260
 QLast Update : Fri Aug 29 02:31:18 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	217331	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	446535	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	457770	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	235679	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	194708	58.341	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 116.680%		
35) Dibromofluoromethane	5.397	113	158930	51.857	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 103.720%		
50) Toluene-d8	8.653	98	553590	51.533	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 103.060%		
62) 4-Bromofluorobenzene	11.079	95	236267	58.545	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 117.080%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.642	94	467	0.353	ug/l #	79
6) Chloroethane	1.715	64	942	0.485	ug/l #	40
10) Methyl Iodide	2.483	142	3015	0.704	ug/l	99
11) Tert butyl alcohol	2.959	59	4341	14.151	ug/l #	93
16) Acetone	2.392	43	30947	23.413	ug/l	95
17) Carbon Disulfide	2.538	76	4114	0.504	ug/l #	90
18) Methyl Acetate	2.721	43	24457	7.505	ug/l	100
20) Methylene Chloride	2.806	84	10889	3.237	ug/l	95
25) 2-Butanone	4.599	43	17433	10.022	ug/l	98
29) Tetrahydrofuran	5.032	42	249	0.231	ug/l #	40
31) Cyclohexane	5.568	56	4950	1.055	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	18287	4.193	ug/l #	50
37) Ethyl Acetate	4.745	43	8952	2.082	ug/l #	89
38) Carbon Tetrachloride	5.568	117	22791	4.709	ug/l #	18
43) Isopropyl Acetate	6.361	43	8807	1.275	ug/l	96
48) Methyl methacrylate	7.799	41	60336	16.980	ug/l #	44
49) 1,4-Dioxane	7.799	88	34	0.967	ug/l #	1
51) 4-Methyl-2-Pentanone	8.549	43	116850	28.630	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	54091	10.262	ug/l #	65
57) 1,3-Dichloropropane	9.482	76	2864	0.500	ug/l #	42
59) 2-Hexanone	9.439	43	5630	2.019	ug/l	95
76) 1,2,3-Trichloropropane	11.079	75	121265	28.829	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	121265	102.031	ug/l #	7
94) Hexachlorobutadiene	13.719	225	558	0.325	ug/l	80

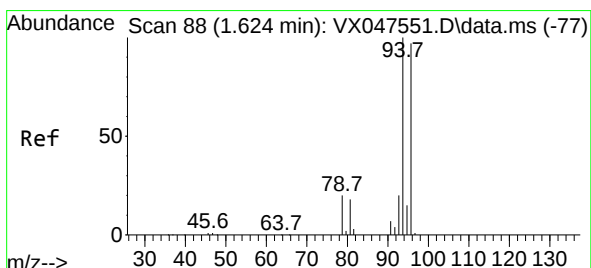
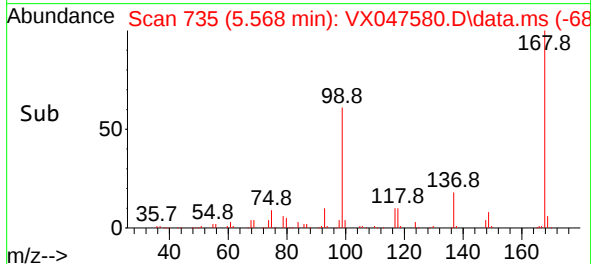
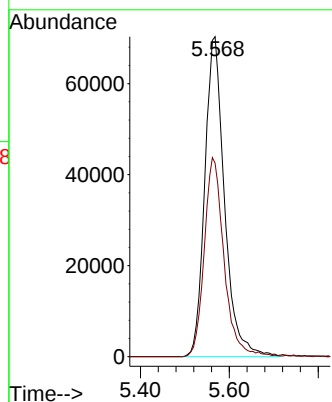
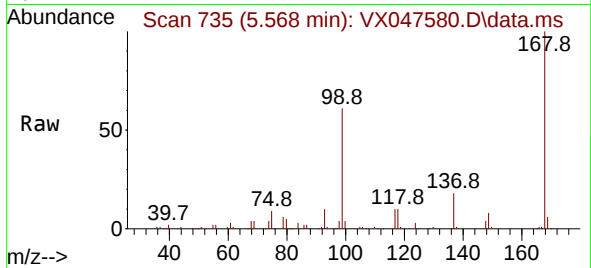
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

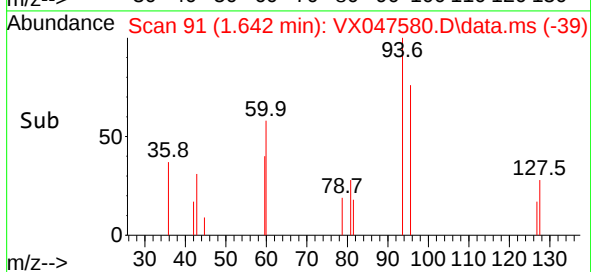
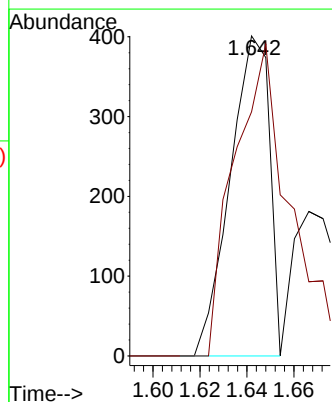
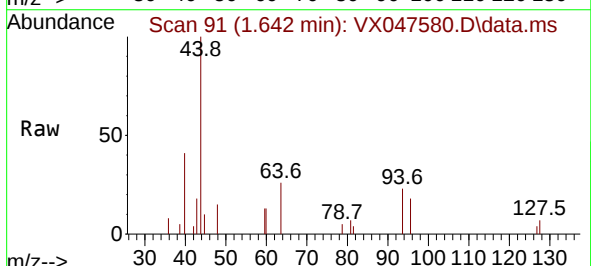
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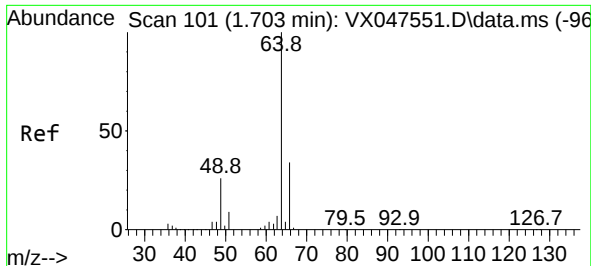
Tgt Ion:168 Resp: 217331
Ion Ratio Lower Upper
168 100
99 60.5 48.9 73.3



#5
Bromomethane
Concen: 0.353 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.018 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 94 Resp: 467
Ion Ratio Lower Upper
94 100
96 76.3 77.7 116.5#

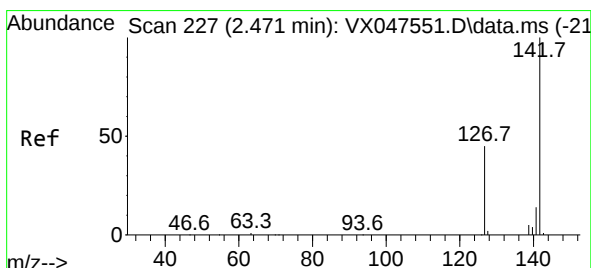
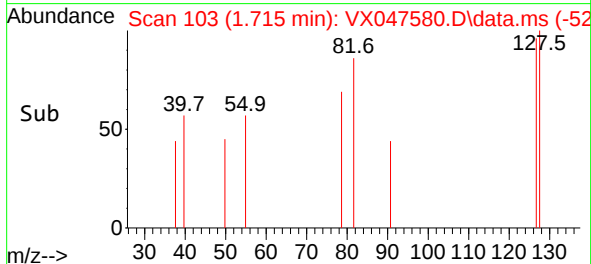
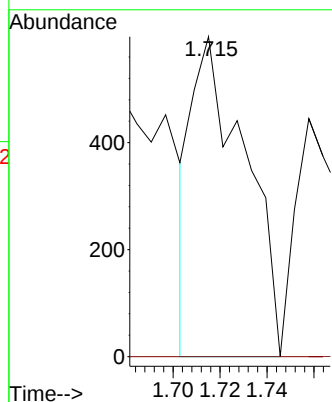
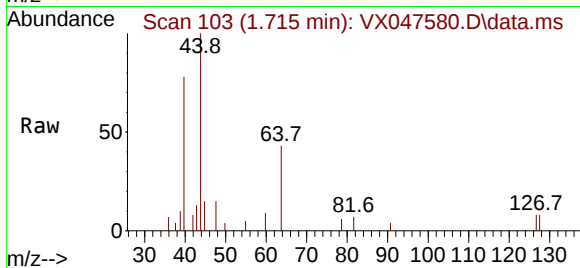




#6
Chloroethane
Concen: 0.485 ug/l
RT: 1.715 min Scan# 101
Delta R.T. 0.012 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

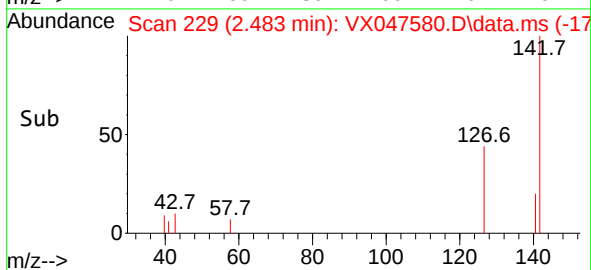
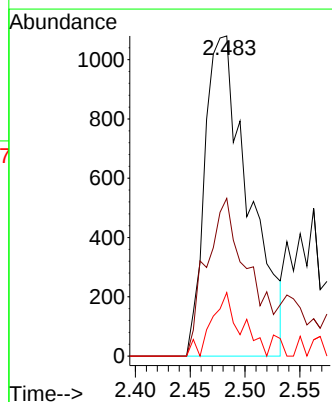
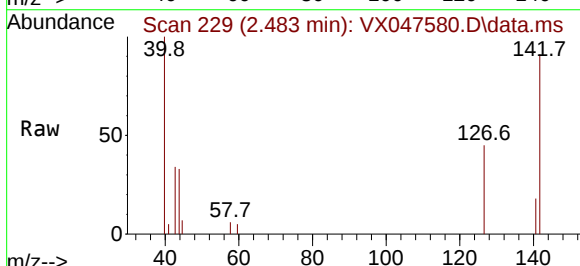
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

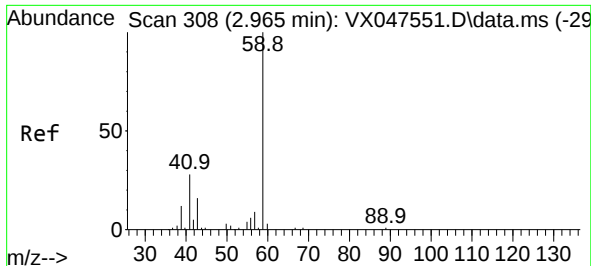
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Ion Ratio Lower Upper
64 100
66 0.0 27.4 41.2#



#10
Methyl Iodide
Concen: 0.704 ug/l
RT: 2.483 min Scan# 229
Delta R.T. 0.012 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 142 Resp: 3015
Ion Ratio Lower Upper
142 100
127 47.6 37.6 56.4
141 13.0 10.6 16.0

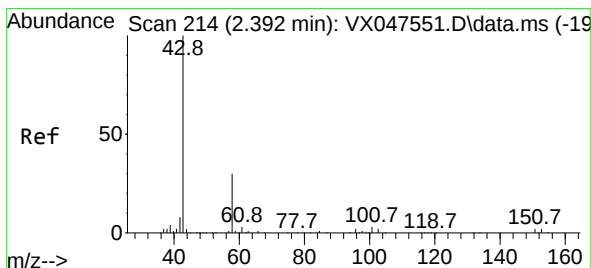
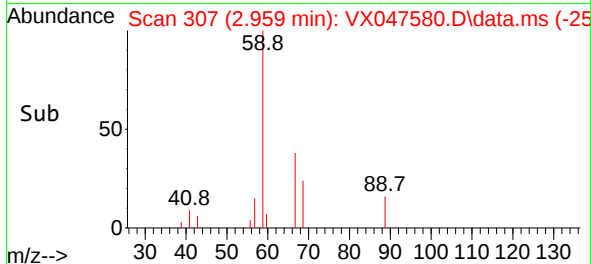
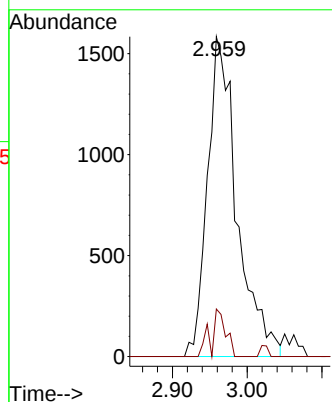
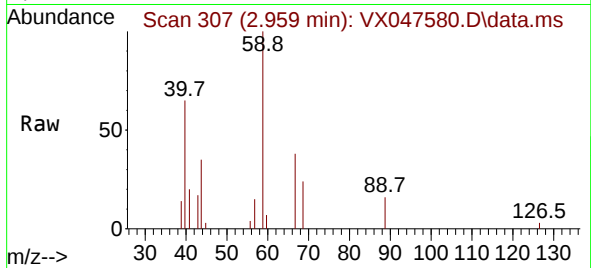




#11
Tert butyl alcohol
Concen: 14.151 ug/l
RT: 2.959 min Scan# 308
Delta R.T. -0.006 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

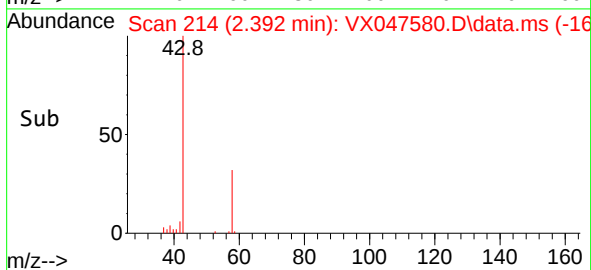
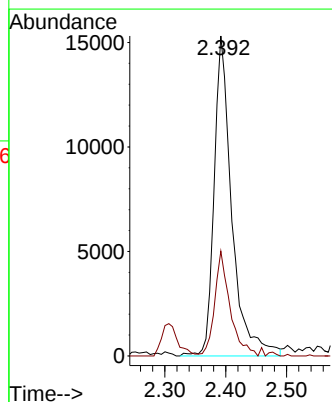
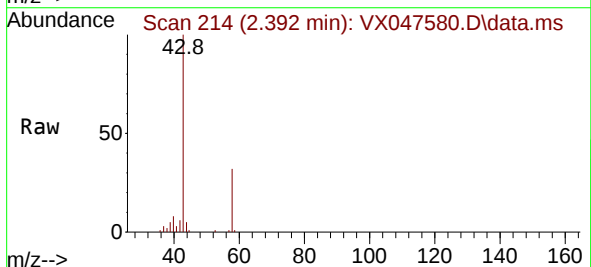
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

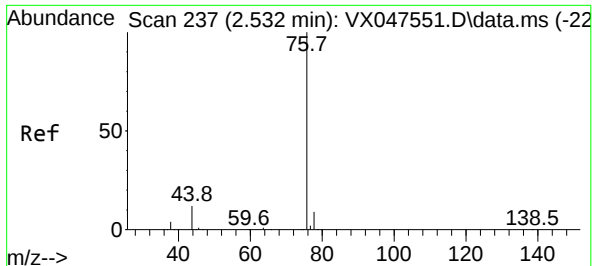
Tgt Ion: 59 Resp: 4341
Ion Ratio Lower Upper
59 100
57 7.4 7.9 11.9#



#16
Acetone
Concen: 23.413 ug/l
RT: 2.392 min Scan# 214
Delta R.T. -0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 43 Resp: 30947
Ion Ratio Lower Upper
43 100
58 32.8 24.2 36.2

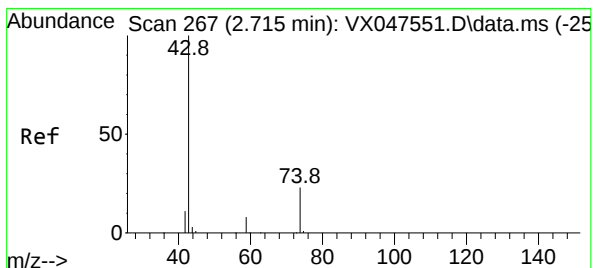
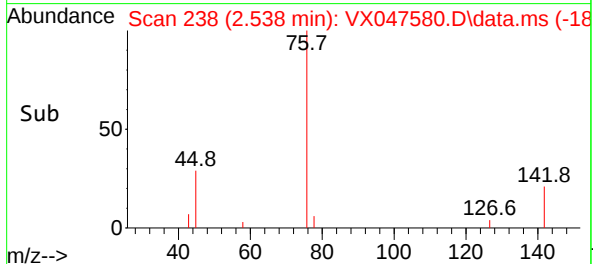
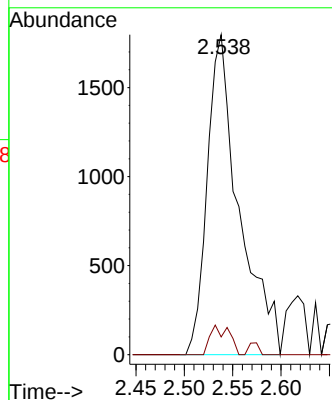
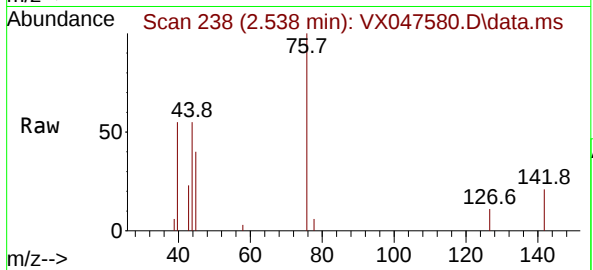




#17
Carbon Disulfide
Concen: 0.504 ug/l
RT: 2.538 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

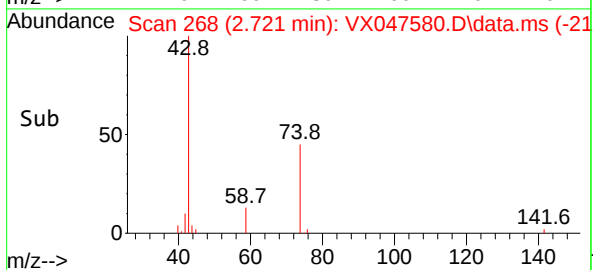
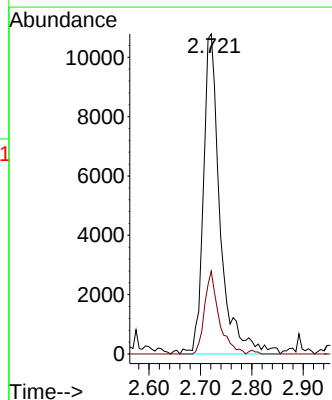
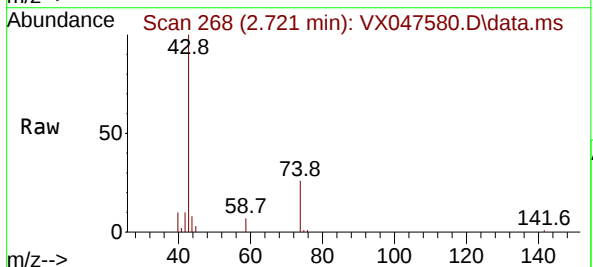
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

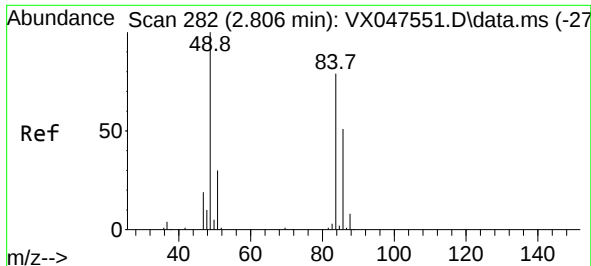
Tgt Ion: 76 Resp: 4114
Ion Ratio Lower Upper
76 100
78 5.6 7.4 11.0#



#18
Methyl Acetate
Concen: 7.505 ug/l
RT: 2.721 min Scan# 268
Delta R.T. 0.006 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 43 Resp: 24457
Ion Ratio Lower Upper
43 100
74 22.1 17.8 26.8

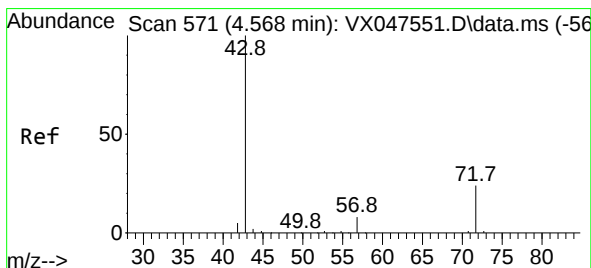
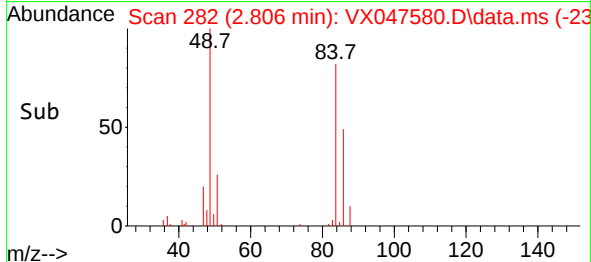
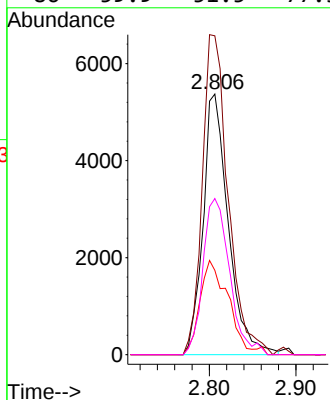
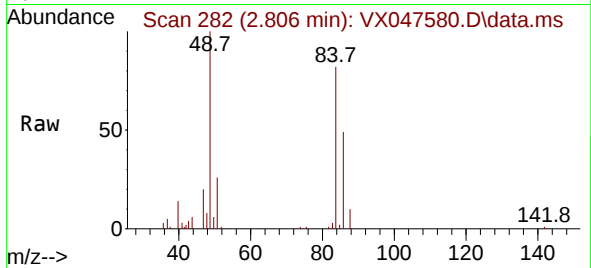




#20
Methylene Chloride
Concen: 3.237 ug/l
RT: 2.806 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

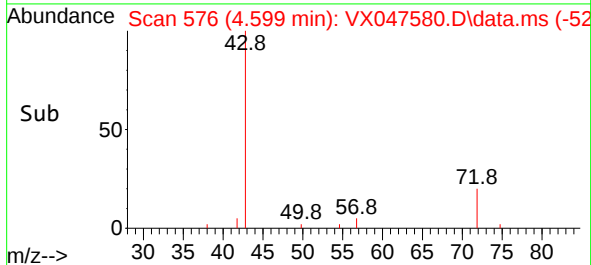
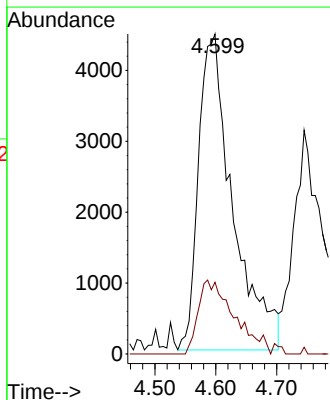
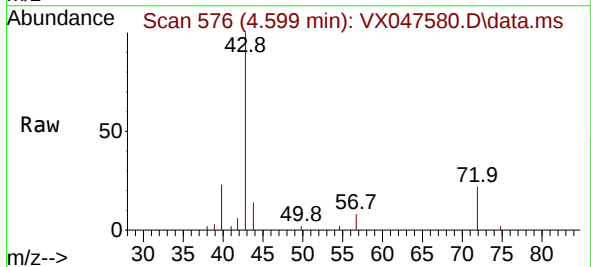
Instrument :
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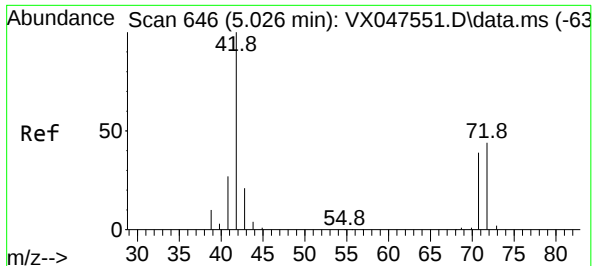
Tgt Ion:	84	Resp:	10889
Ion	Ratio	Lower	Upper
84	100		
49	122.3	101.4	152.2
51	32.3	30.6	46.0
86	59.9	51.5	77.3



#25
2-Butanone
Concen: 10.022 ug/l
RT: 4.599 min Scan# 576
Delta R.T. 0.030 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion:	43	Resp:	17433
Ion	Ratio	Lower	Upper
43	100		
72	25.6	19.5	29.3





#29

Tetrahydrofuran

Concen: 0.231 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.006 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

Instrument :

MSVOA_X

ClientSampleId :

CONTAINMENT-C

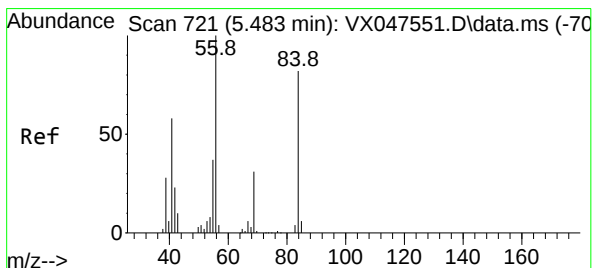
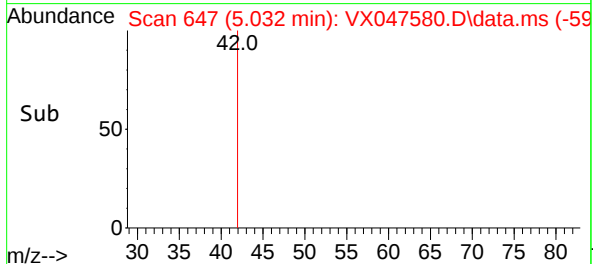
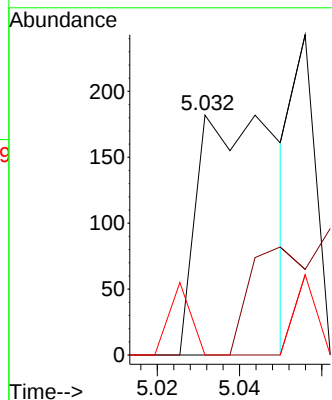
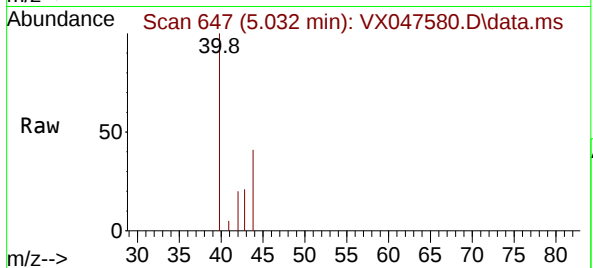
Tgt Ion: 42 Resp: 249

Ion Ratio Lower Upper

42 100

72 0.0 34.5 51.7#

71 8.0 31.7 47.5#



#31

Cyclohexane

Concen: 1.055 ug/l

RT: 5.568 min Scan# 735

Delta R.T. 0.085 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

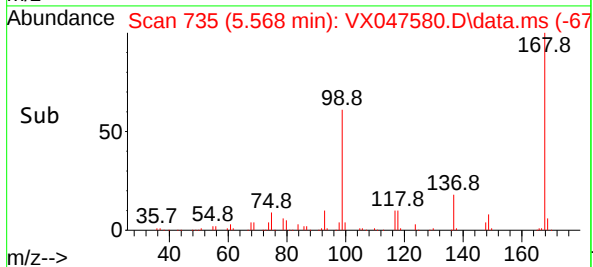
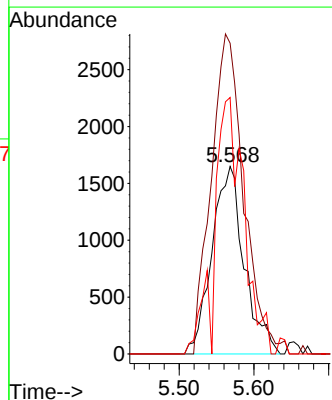
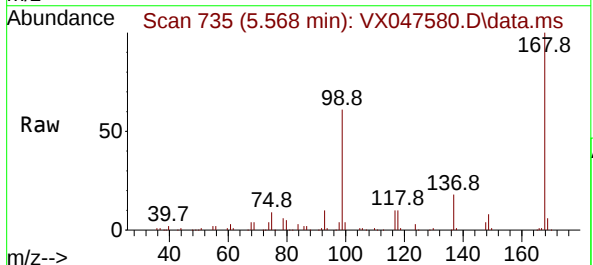
Tgt Ion: 56 Resp: 4950

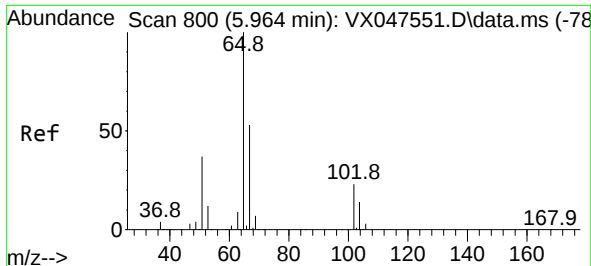
Ion Ratio Lower Upper

56 100

69 165.7 24.2 36.2#

84 136.8 65.5 98.3#





#33

1,2-Dichloroethane-d4

Concen: 58.341 ug/l

RT: 5.964 min Scan# 800

Delta R.T. -0.000 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

Instrument :

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ClientSampleId :

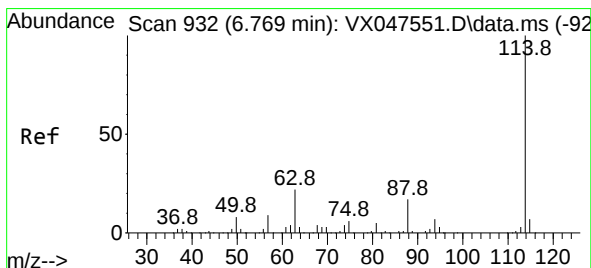
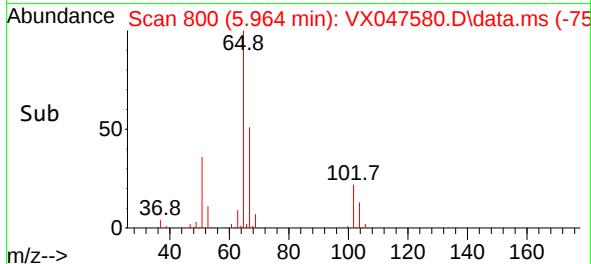
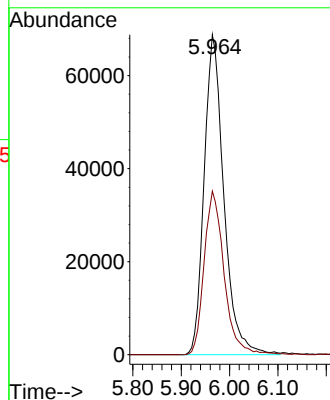
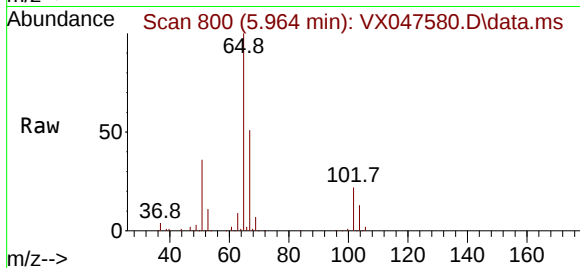
CONTAINMENT-C

Tgt Ion: 65 Resp: 194708

Ion Ratio Lower Upper

65 100

67 51.9 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: VX047580.D

Acq: 02 Sep 2025 13:44

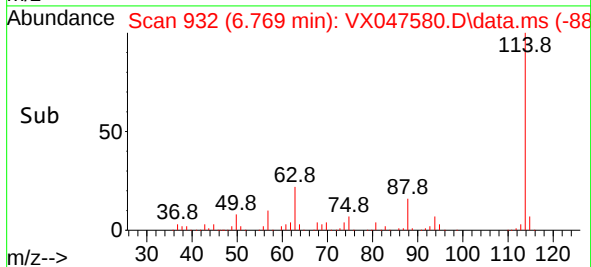
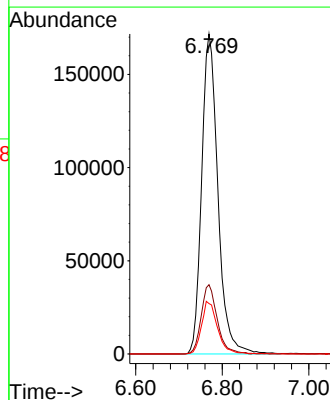
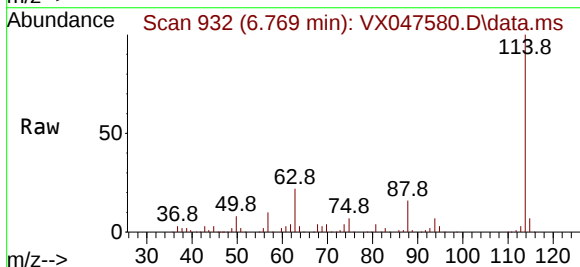
Tgt Ion: 114 Resp: 446535

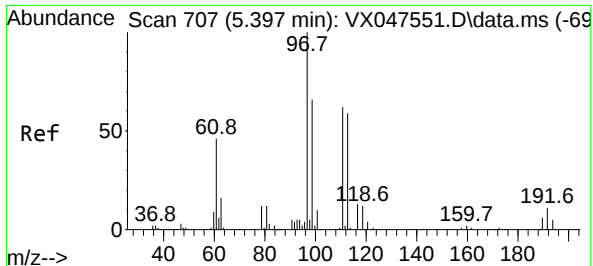
Ion Ratio Lower Upper

114 100

63 21.6 0.0 43.6

88 15.8 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.857 ug/l

RT: 5.397 min Scan# 707

Delta R.T. -0.000 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

Instrument :

MSVOA_X

ClientSampleId :

CONTAINMENT-C

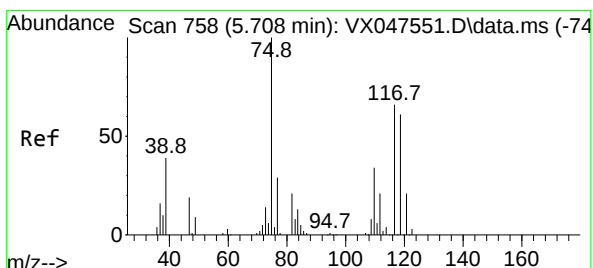
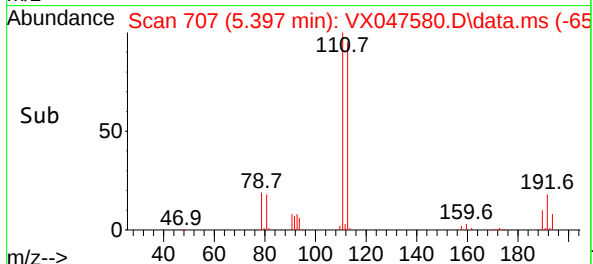
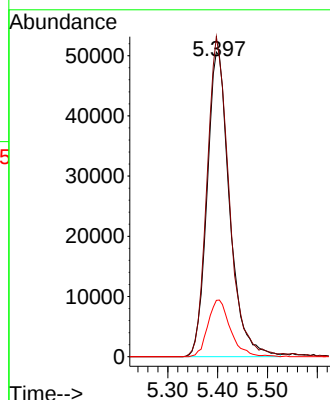
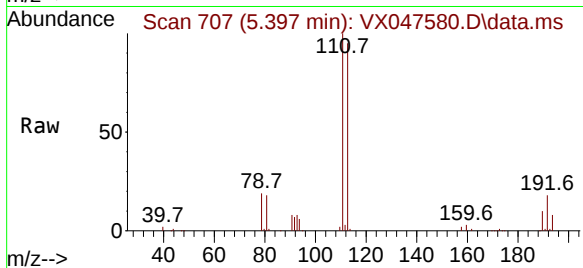
Tgt Ion:113 Resp: 158930

Ion Ratio Lower Upper

113 100

111 103.1 81.2 121.8

192 18.4 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.193 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.140 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

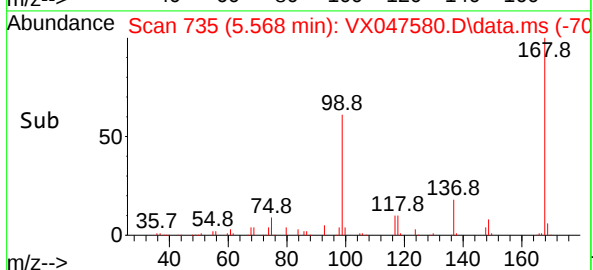
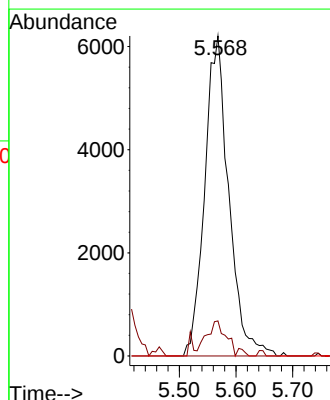
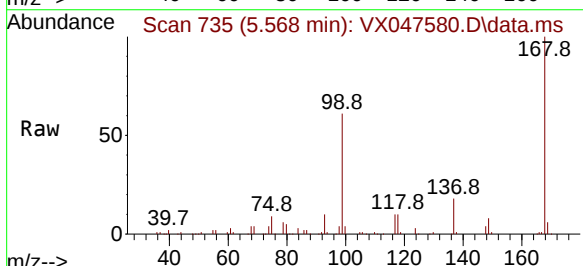
Tgt Ion: 75 Resp: 18287

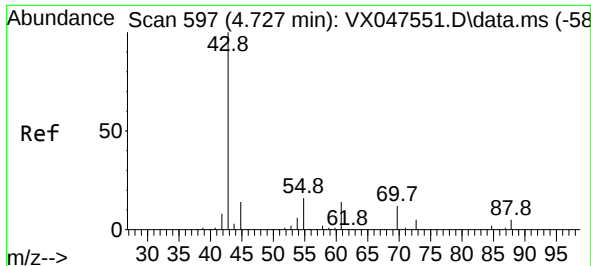
Ion Ratio Lower Upper

75 100

110 9.4 17.1 51.3#

77 0.0 25.0 37.6#

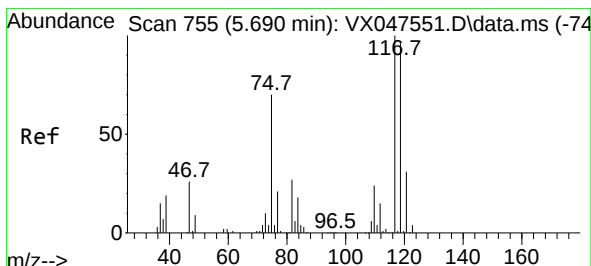
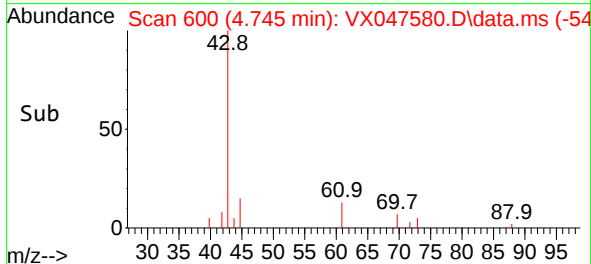
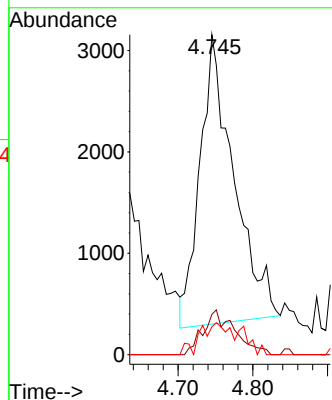
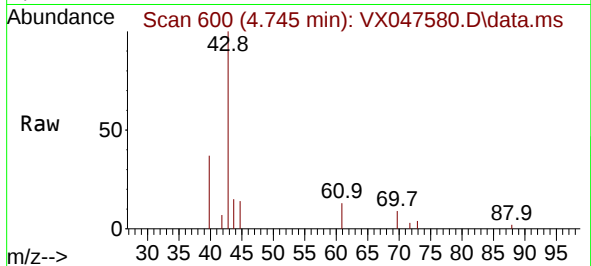




#37
Ethyl Acetate
Concen: 2.082 ug/l
RT: 4.745 min Scan# 600
Delta R.T. 0.018 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

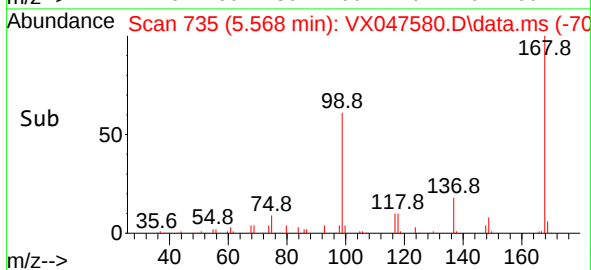
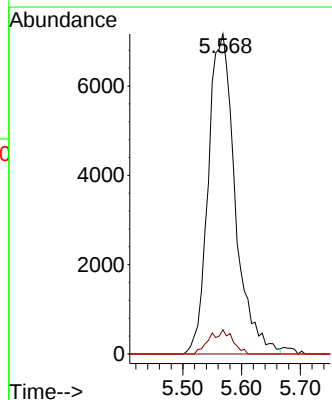
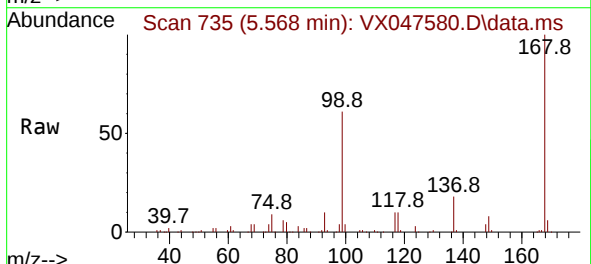
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

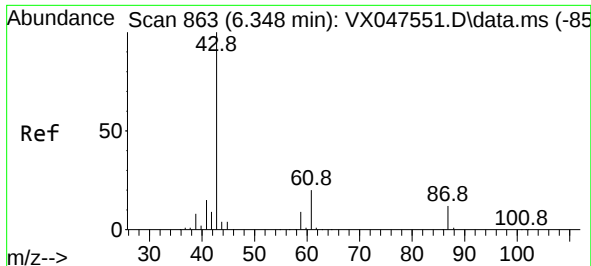
Tgt Ion: 43 Resp: 8952
Ion Ratio Lower Upper
43 100
61 14.5 10.2 15.2
70 3.4 8.2 12.4#



#38
Carbon Tetrachloride
Concen: 4.709 ug/l
RT: 5.568 min Scan# 735
Delta R.T. -0.122 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 117 Resp: 22791
Ion Ratio Lower Upper
117 100
119 7.5 76.4 114.6#
121 0.0 24.9 37.3#

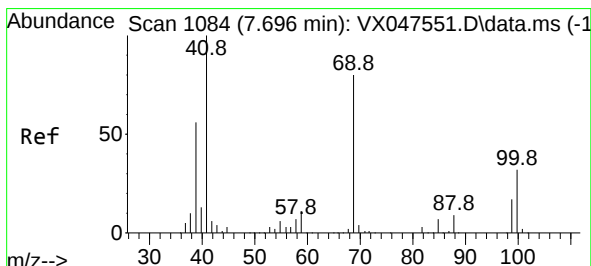
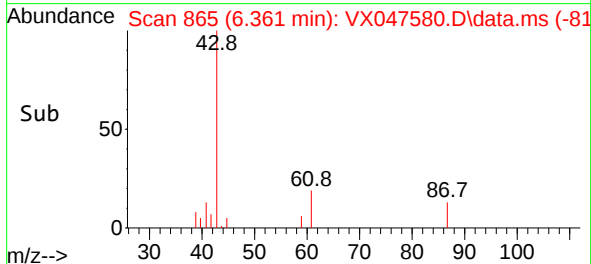
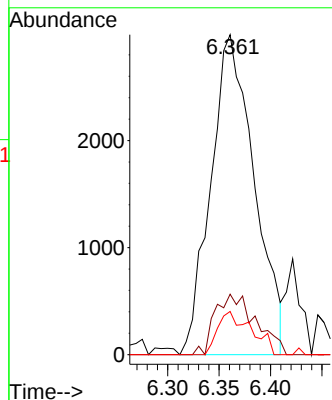
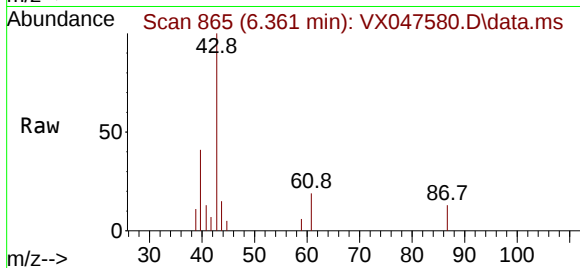




#43
Isopropyl Acetate
Concen: 1.275 ug/l
RT: 6.361 min Scan# 810
Delta R.T. 0.012 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

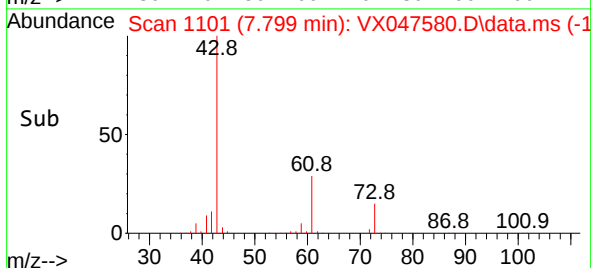
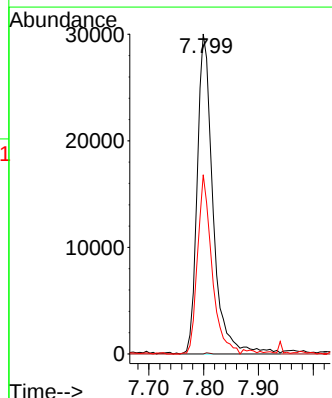
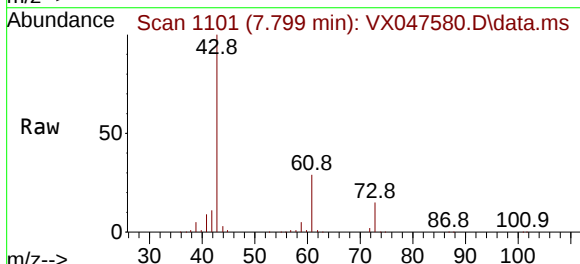
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

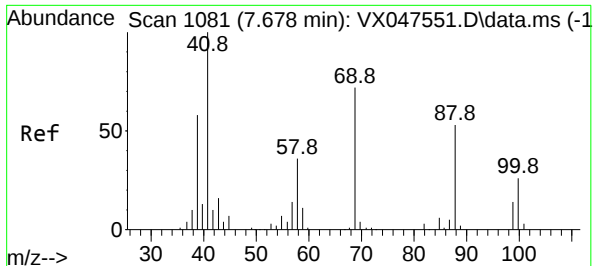
Tgt Ion: 43 Resp: 8807
Ion Ratio Lower Upper
43 100
61 17.9 15.4 23.2
87 10.3 9.9 14.9



#48
Methyl methacrylate
Concen: 16.980 ug/l
RT: 7.799 min Scan# 1101
Delta R.T. 0.104 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 41 Resp: 60336
Ion Ratio Lower Upper
41 100
69 0.1 63.4 95.2#
39 51.0 44.7 67.1





#49

1,4-Dioxane

Concen: 0.967 ug/l

RT: 7.799 min Scan# 1101

Delta R.T. 0.122 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

Instrument :

MSVOA_X

ClientSampleId :

CONTAINMENT-C

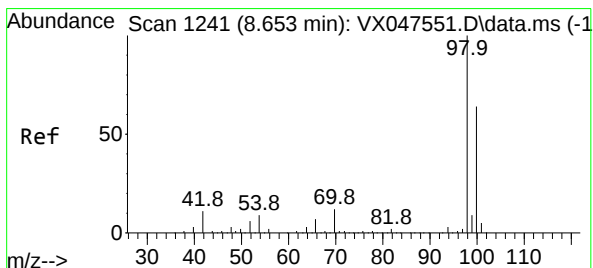
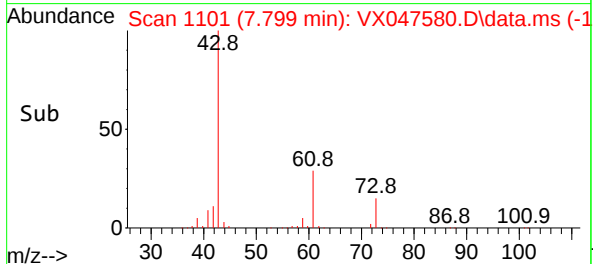
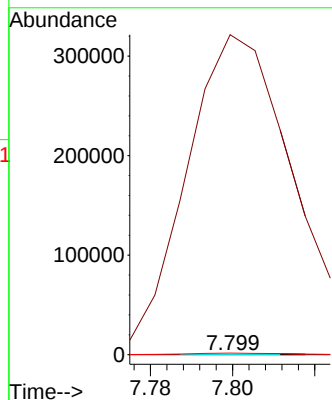
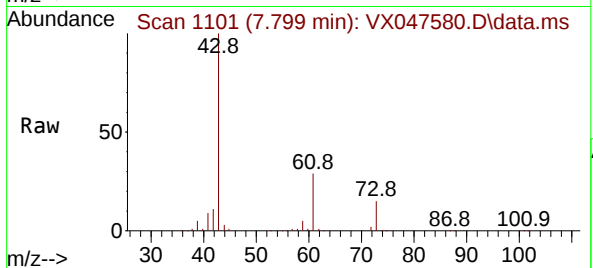
Tgt Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

43 1856194.1 31.9 47.9#

58 8938.2 57.5 86.3#



#50

Toluene-d8

Concen: 51.533 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. -0.000 min

Lab File: VX047580.D

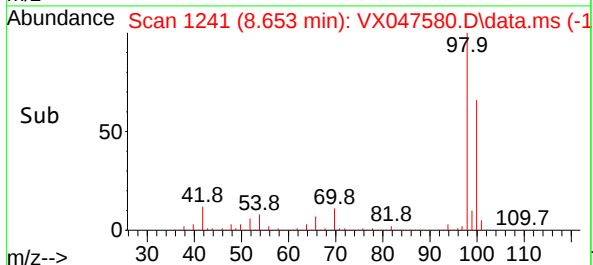
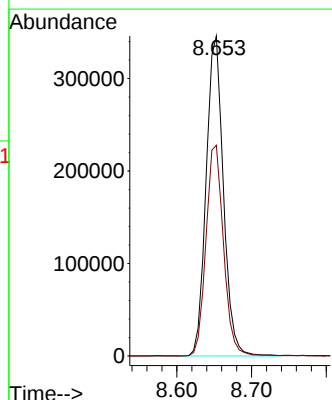
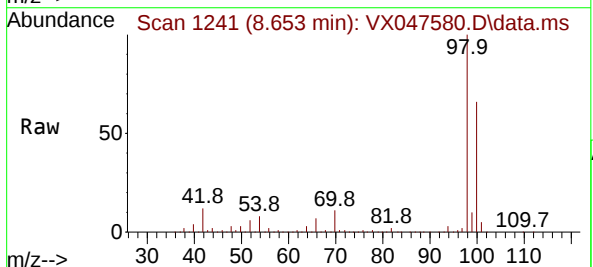
Acq: 02 Sep 2025 13:44

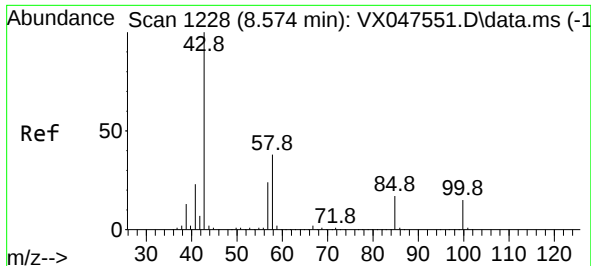
Tgt Ion: 98 Resp: 553590

Ion Ratio Lower Upper

98 100

100 67.1 53.5 80.3

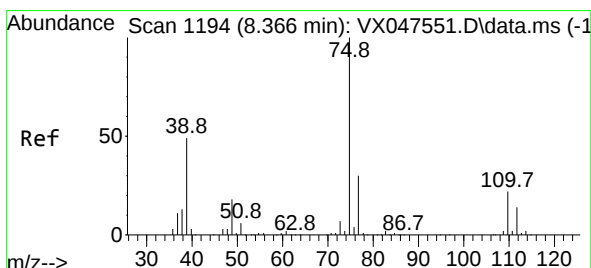
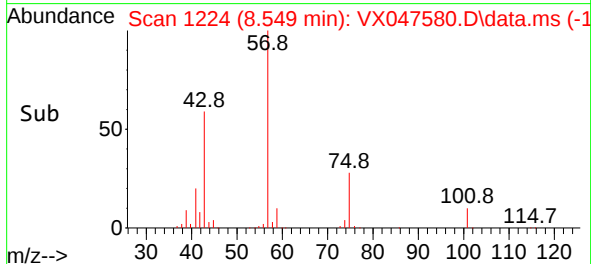
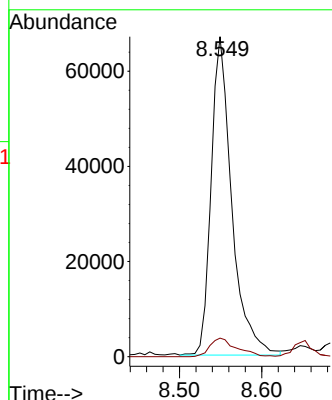
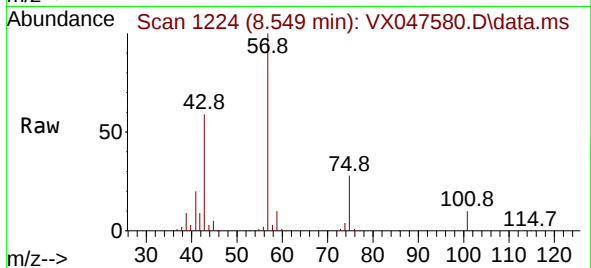




#51
4-Methyl-2-Pentanone
Concen: 28.630 ug/l
RT: 8.549 min Scan# 11
Delta R.T. -0.024 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

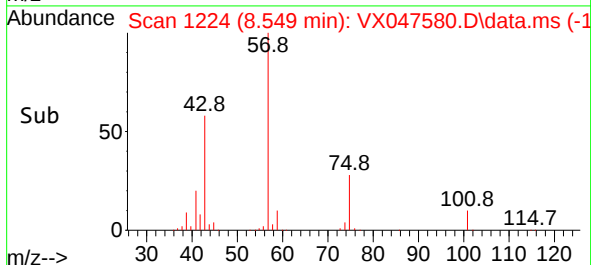
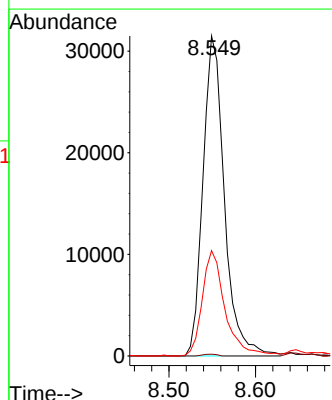
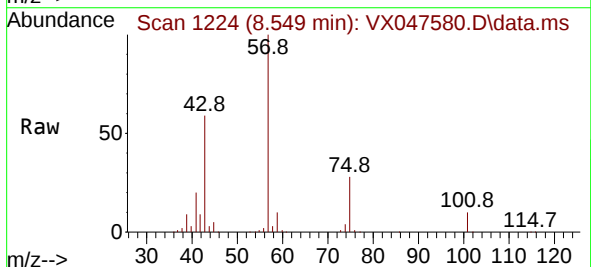
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

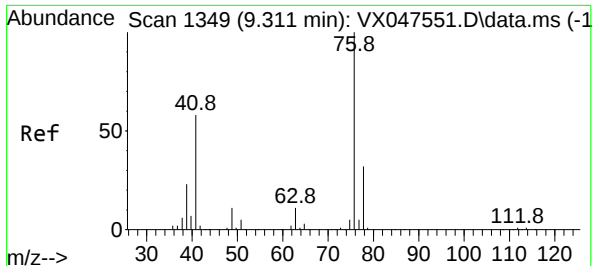
Tgt Ion: 43 Resp: 116850
Ion Ratio Lower Upper
43 100
58 7.5 30.4 45.6#



#54
cis-1,3-Dichloropropene
Concen: 10.262 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 75 Resp: 54091
Ion Ratio Lower Upper
75 100
77 0.5 24.3 36.5#
39 32.9 39.0 58.4#





#57

1,3-Dichloropropane

Concen: 0.500 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.171 min

Lab File: VX047580.D

Acq: 02 Sep 2025 13:44

Instrument :

MSVOA_X

ClientSampleId :

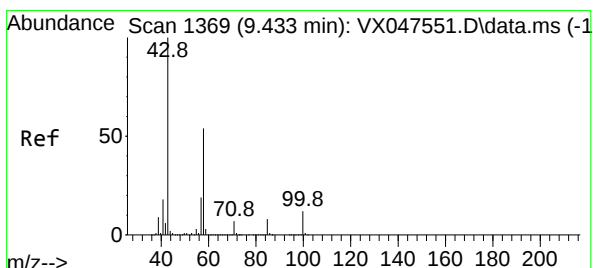
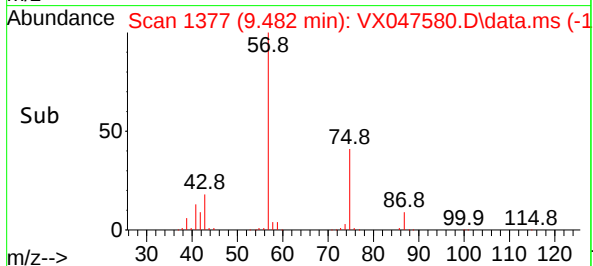
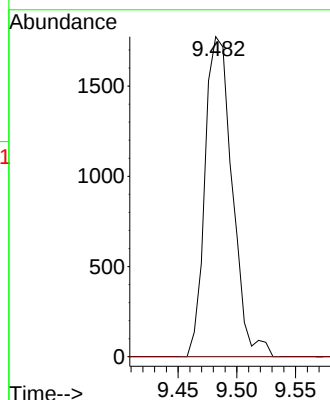
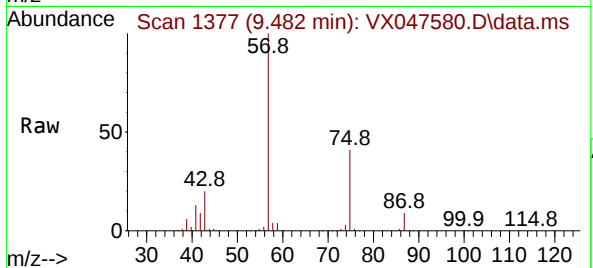
CONTAINMENT-C

Tgt Ion: 76 Resp: 2864

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 2.019 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX047580.D

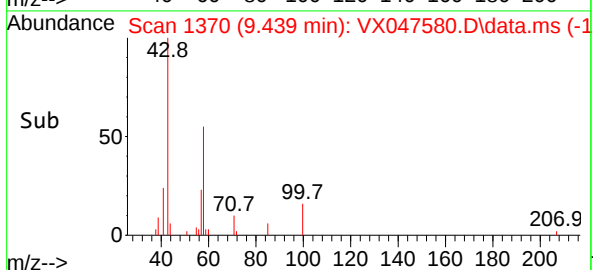
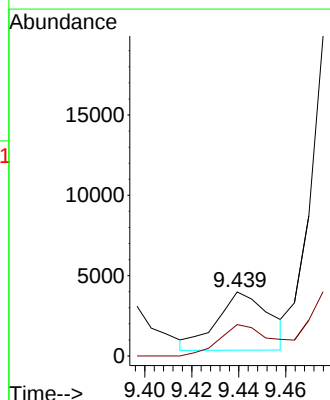
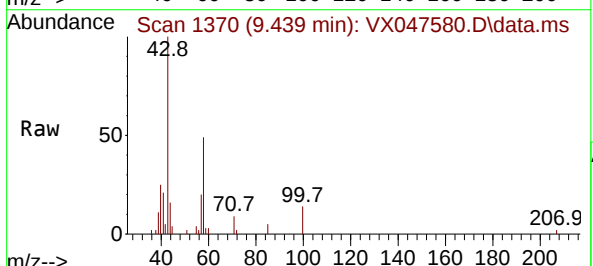
Acq: 02 Sep 2025 13:44

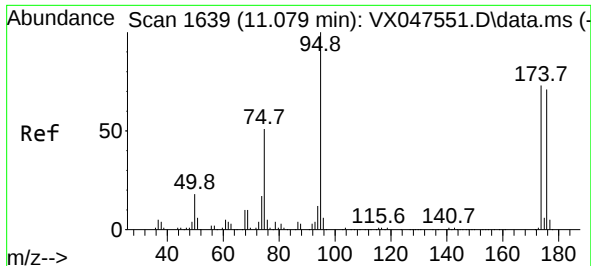
Tgt Ion: 43 Resp: 5630

Ion Ratio Lower Upper

43 100

58 56.8 26.7 80.0

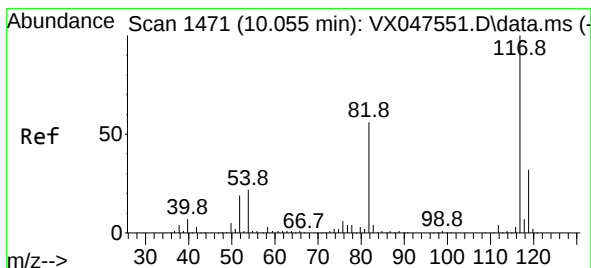
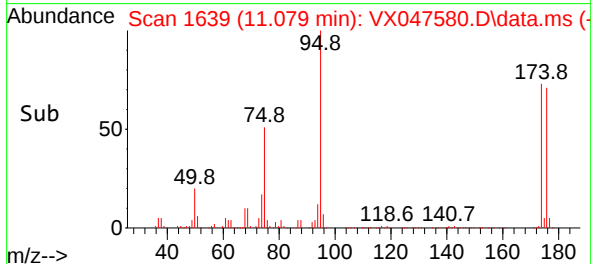
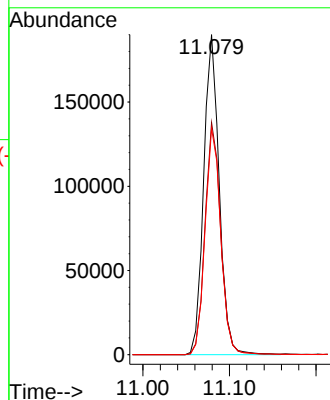
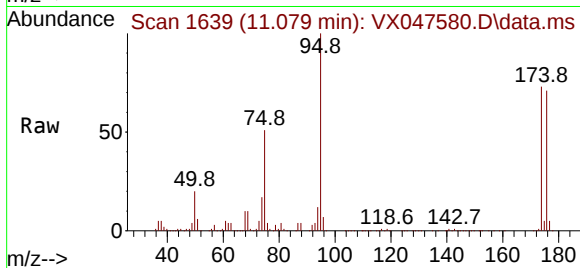




#62
4-Bromofluorobenzene
Concen: 58.545 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

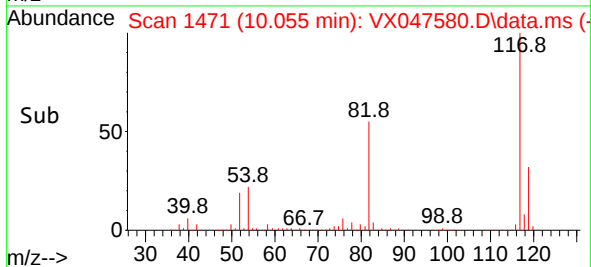
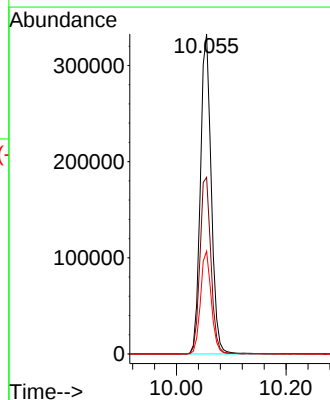
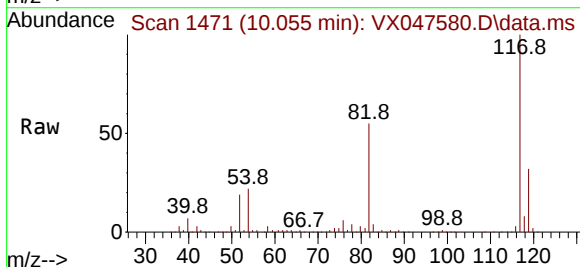
Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

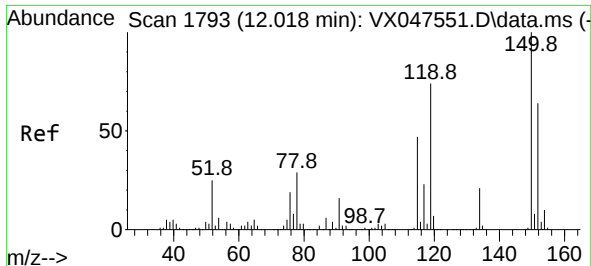
Tgt Ion: 95 Resp: 236267
Ion Ratio Lower Upper
95 100
174 73.8 0.0 145.2
176 71.8 0.0 140.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 117 Resp: 457770
Ion Ratio Lower Upper
117 100
82 55.2 44.6 66.8
119 32.1 25.7 38.5

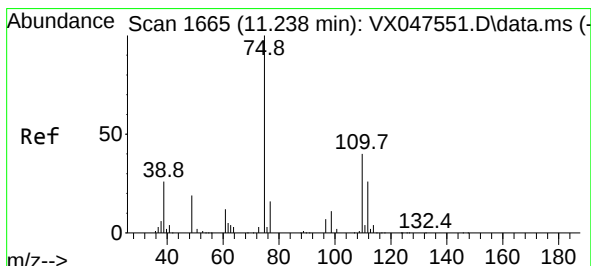
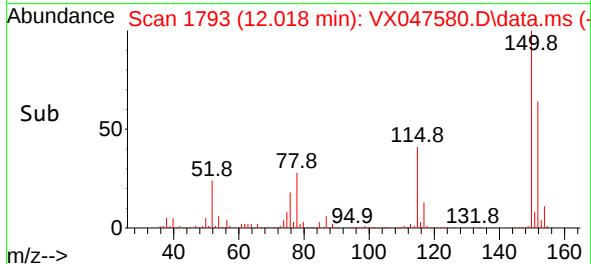
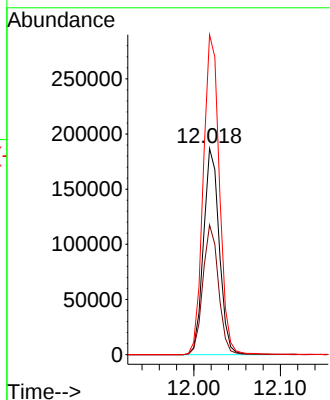
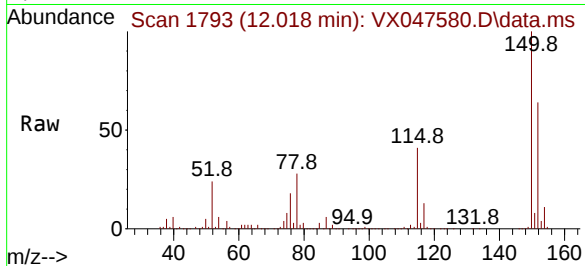




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX047580.D
 Acq: 02 Sep 2025 13:44

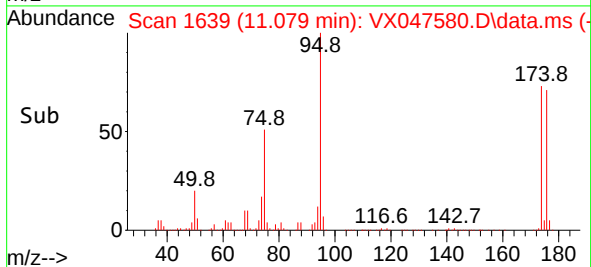
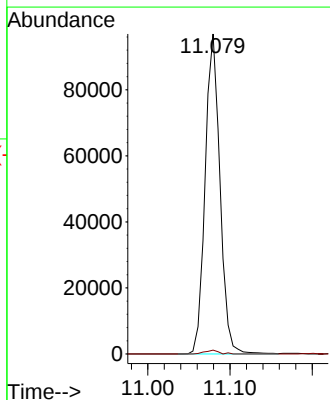
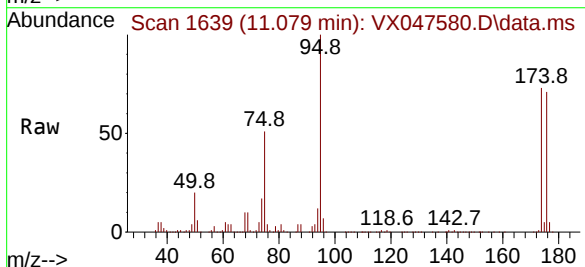
Instrument :
 MSVOA_X
 ClientSampleId :
 CONTAINMENT-C

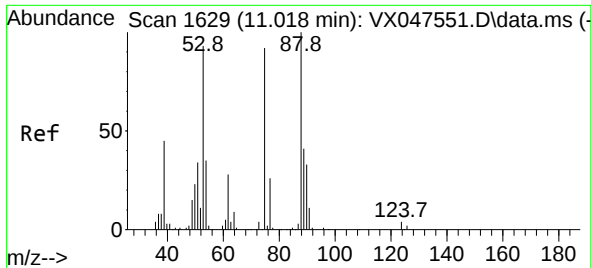
Tgt Ion:152 Resp: 235679
 Ion Ratio Lower Upper
 152 100
 115 62.7 42.9 128.5
 150 159.4 0.0 351.0



#76
 1,2,3-Trichloropropane
 Concen: 28.829 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.159 min
 Lab File: VX047580.D
 Acq: 02 Sep 2025 13:44

Tgt Ion: 75 Resp: 121265
 Ion Ratio Lower Upper
 75 100
 77 1.1 19.7 59.1#

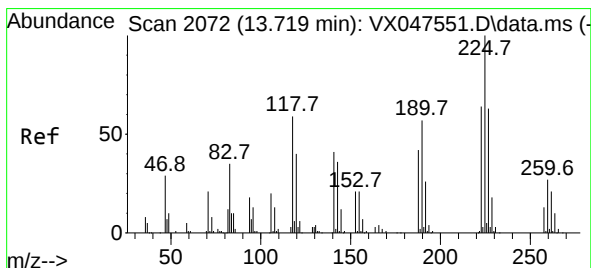
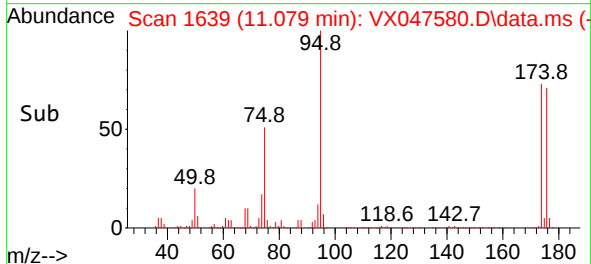
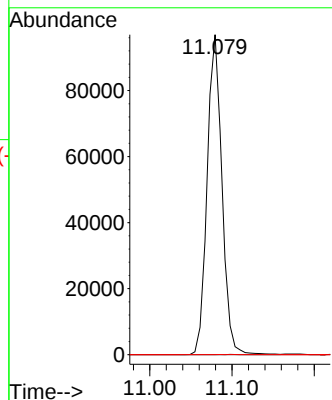
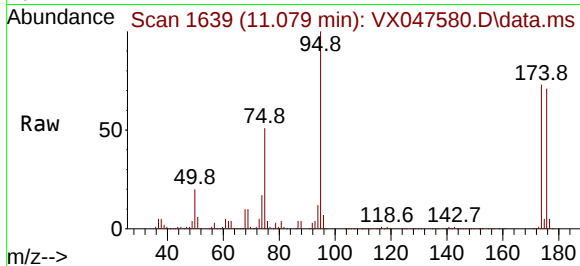




#81
trans-1,4-Dichloro-2-butene
Concen: 102.031 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Instrument :
MSVOA_X
ClientSampleId :
CONTAINMENT-C

Tgt Ion: 75 Resp: 121265
Ion Ratio Lower Upper
75 100
53 0.0 85.7 128.5#
89 0.0 36.4 54.6#



#94
Hexachlorobutadiene
Concen: 0.325 ug/l
RT: 13.719 min Scan# 2072
Delta R.T. -0.000 min
Lab File: VX047580.D
Acq: 02 Sep 2025 13:44

Tgt Ion: 225 Resp: 558
Ion Ratio Lower Upper
225 100
223 49.8 31.1 93.5
227 44.8 31.8 95.3

