

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080425\
 Data File : VX047223.D
 Acq On : 04 Aug 2025 13:00
 Operator : JC/MD
 Sample : PB169082TB
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 PB169082TB

Quant Time: Aug 05 02:57:44 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)

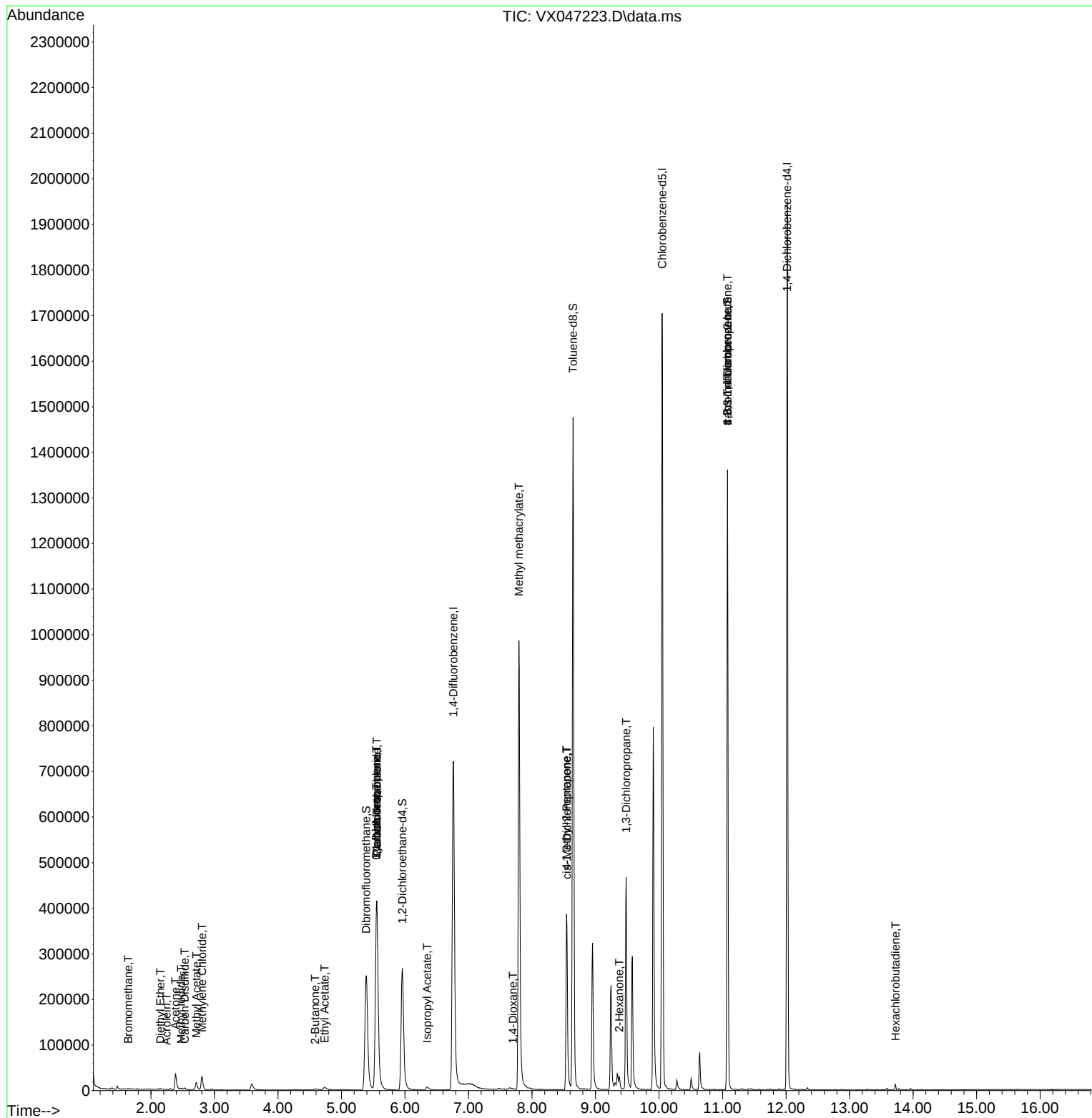
Internal Standards						
1) Pentafluorobenzene	5.556	168	411561	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.763	114	780350	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	743675	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	376199	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.958	65	281646	54.937	ug/l	0.00
Spiked Amount 50.000	Range 78	- 117	Recovery	=	109.880%	
35) Dibromofluoromethane	5.385	113	240067	49.826	ug/l	-0.01
Spiked Amount 50.000	Range 75	- 124	Recovery	=	99.660%	
50) Toluene-d8	8.647	98	861798	55.231	ug/l	0.00
Spiked Amount 50.000	Range 92	- 112	Recovery	=	110.460%	
62) 4-Bromofluorobenzene	11.079	95	354642	52.741	ug/l	0.00
Spiked Amount 50.000	Range 83	- 123	Recovery	=	105.480%	
Target Compounds						
						Qvalue
5) Bromomethane	1.642	94	859	0.272	ug/l	86
8) Diethyl Ether	2.148	74	645	0.211	ug/l	50
10) Methyl Iodide	2.477	142	3889	0.731	ug/l #	73
11) Tert butyl alcohol	2.940	59	474	Below Cal	#	72
13) Acrolein	2.245	56	286	0.259	ug/l #	51
16) Acetone	2.385	43	47466	23.111	ug/l	97
17) Carbon Disulfide	2.532	76	4119	0.275	ug/l #	93
18) Methyl Acetate	2.715	43	24535	4.495	ug/l	99
20) Methylene Chloride	2.806	84	14705	2.603	ug/l	98
25) 2-Butanone	4.586	43	6779	2.267	ug/l #	81
31) Cyclohexane	5.550	56	9718	1.014	ug/l #	5
36) 1,1-Dichloropropene	5.550	75	35273	4.295	ug/l #	50
37) Ethyl Acetate	4.733	43	15943	2.107	ug/l #	93
38) Carbon Tetrachloride	5.556	117	44486	5.075	ug/l #	16
43) Isopropyl Acetate	6.348	43	11256	0.954	ug/l	96
48) Methyl methacrylate	7.793	41	96382	14.996	ug/l #	47
49) 1,4-Dioxane	7.702	88	122	1.669	ug/l #	25
51) 4-Methyl-2-Pentanone	8.543	43	144805	20.649	ug/l #	49
54) cis-1,3-Dichloropropene	8.549	75	64876	7.064	ug/l #	60
57) 1,3-Dichloropropane	9.482	76	4654	0.489	ug/l #	43
59) 2-Hexanone	9.372	43	17777	3.837	ug/l #	25
76) 1,2,3-Trichloropropane	11.079	75	187332	26.903	ug/l #	34
81) trans-1,4-Dichloro-2-b...	11.079	75	187332	69.313	ug/l #	8
94) Hexachlorobutadiene	13.725	225	1384	0.476	ug/l	90

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

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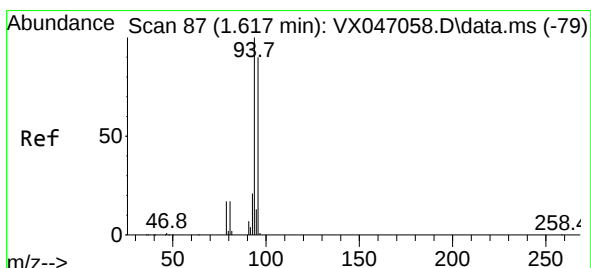
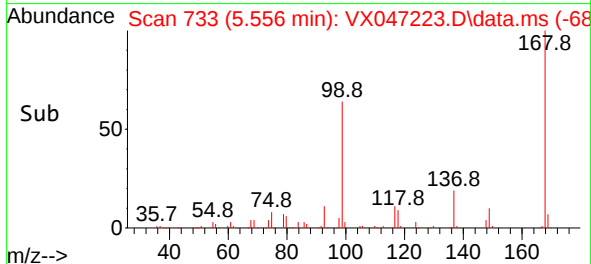
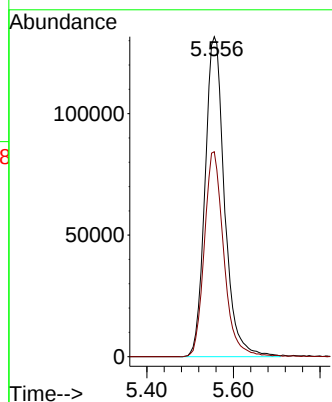
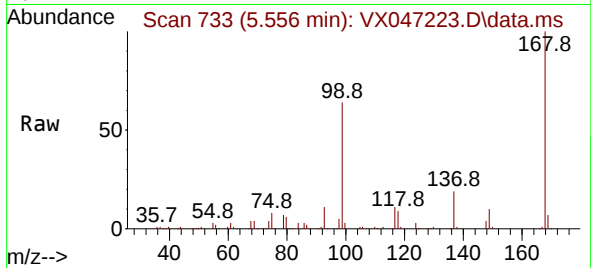




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.556 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

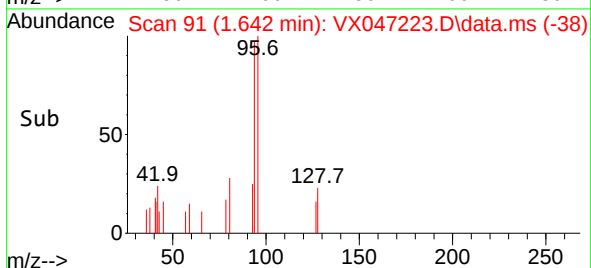
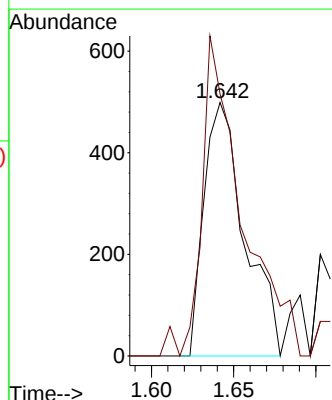
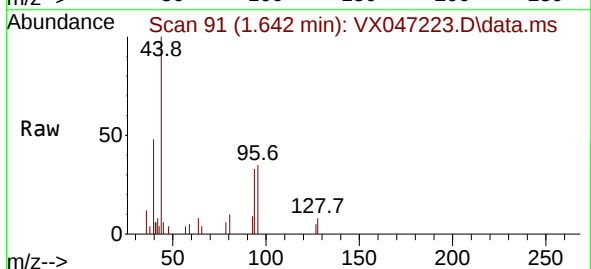
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

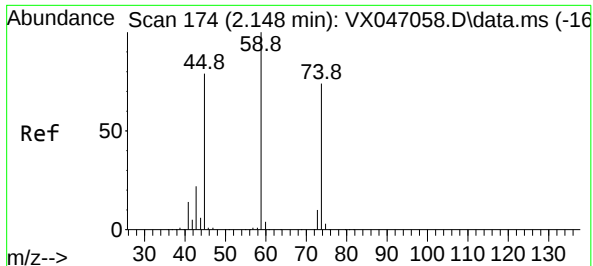
Tgt Ion:168 Resp: 411561
Ion Ratio Lower Upper
168 100
99 64.1 48.0 72.0



#5
Bromomethane
Concen: 0.272 ug/l
RT: 1.642 min Scan# 91
Delta R.T. 0.024 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 94 Resp: 859
Ion Ratio Lower Upper
94 100
96 103.4 72.3 108.5

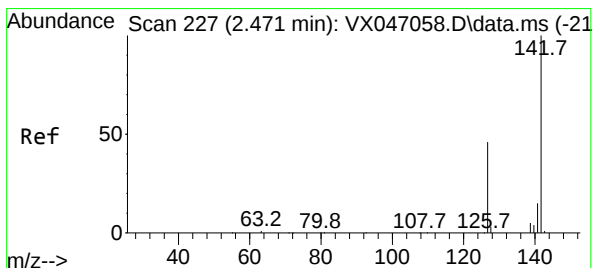
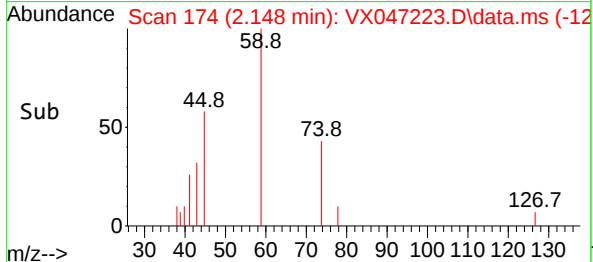
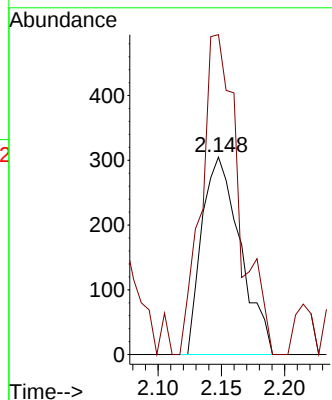
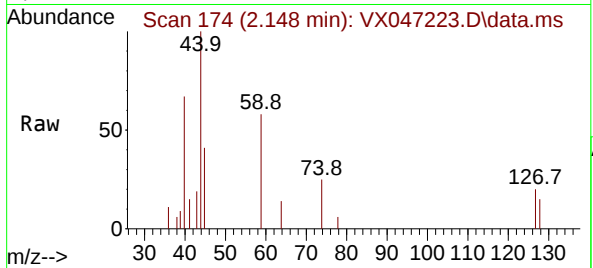




#8
Diethyl Ether
Concen: 0.211 ug/l
RT: 2.148 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

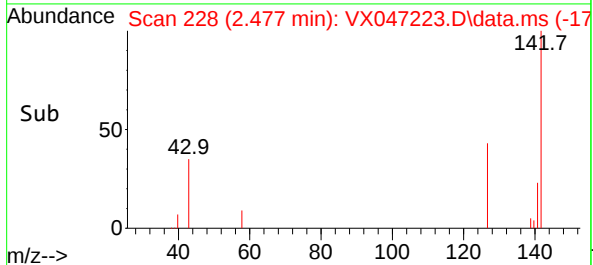
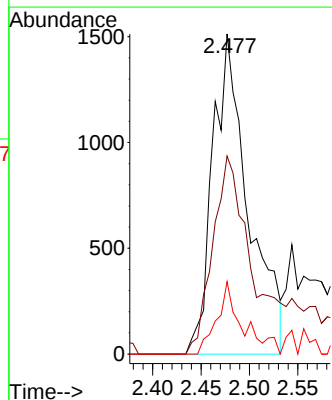
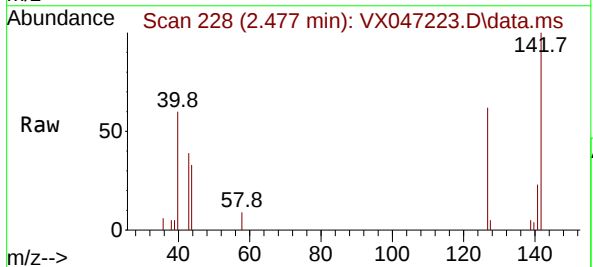
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

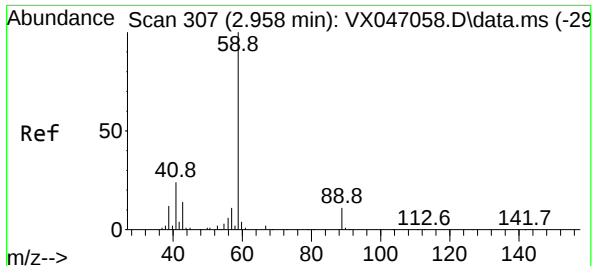
Tgt Ion: 74 Resp: 645
Ion Ratio Lower Upper
74 100
45 157.5 53.0 159.0



#10
Methyl Iodide
Concen: 0.731 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.006 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 142 Resp: 3889
Ion Ratio Lower Upper
142 100
127 67.6 36.6 54.8#
141 16.1 10.9 16.3





#11

Tert butyl alcohol

Concen: Below Cal

RT: 2.940 min Scan# 307

Delta R.T. -0.018 min

Lab File: VX047223.D

Acq: 04 Aug 2025 13:00

Instrument :

MSVOA_X

ClientSampleId :

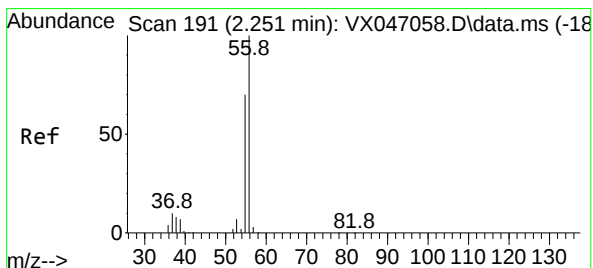
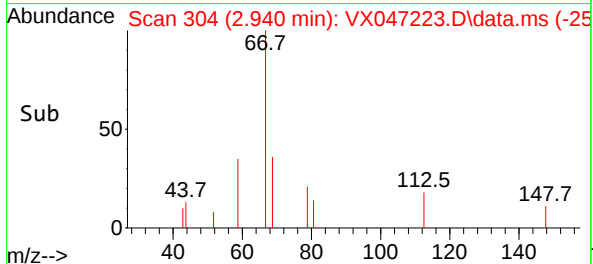
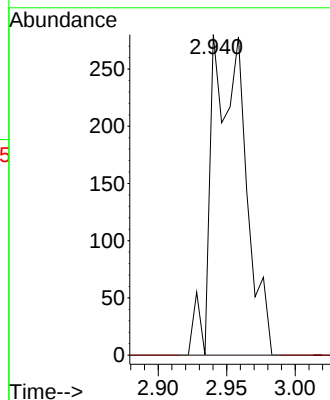
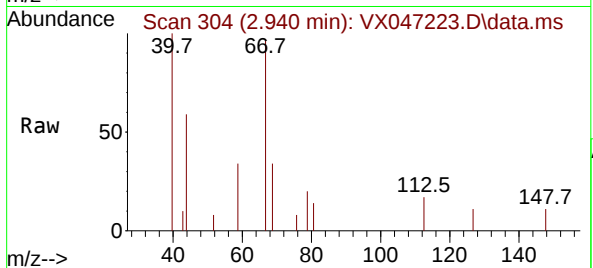
PB169082TB

Tgt Ion: 59 Resp: 474

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 0.259 ug/l

RT: 2.245 min Scan# 190

Delta R.T. -0.006 min

Lab File: VX047223.D

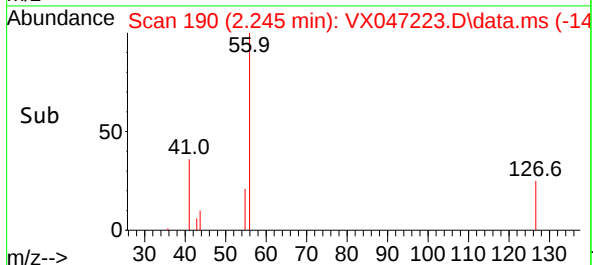
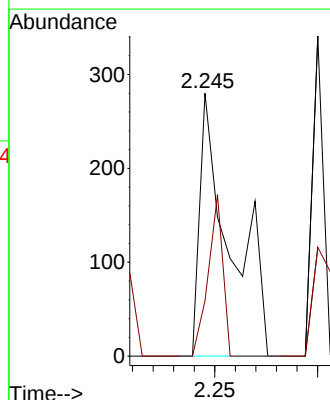
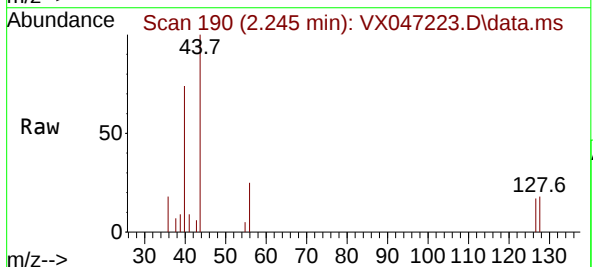
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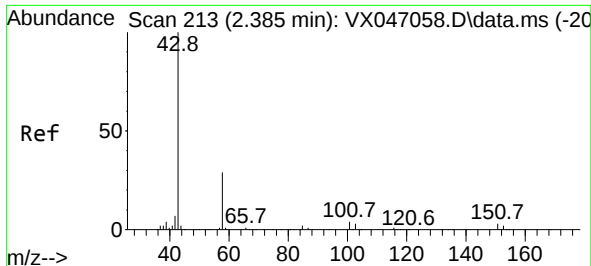
Tgt Ion: 56 Resp: 286

Ion Ratio Lower Upper

56 100

55 29.4 55.7 83.5#

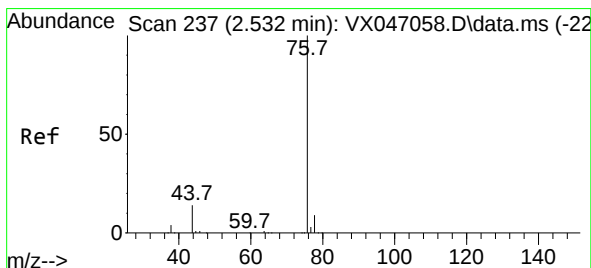
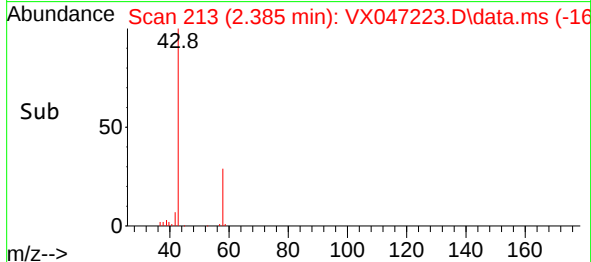
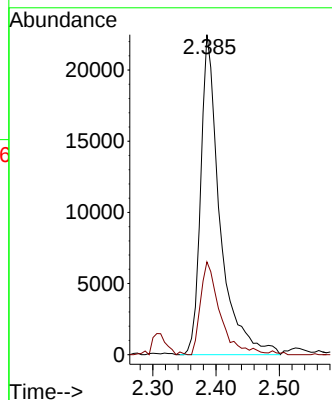
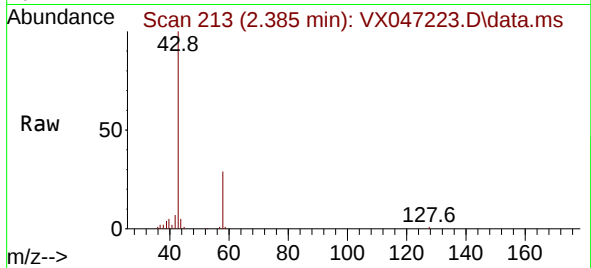




#16
Acetone
Concen: 23.111 ug/l
RT: 2.385 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

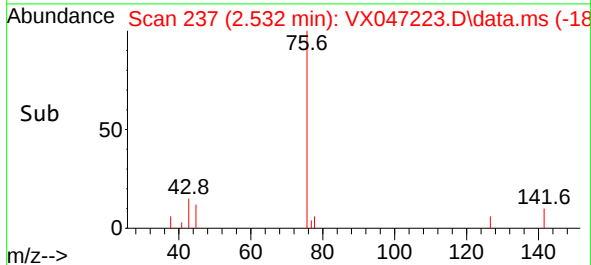
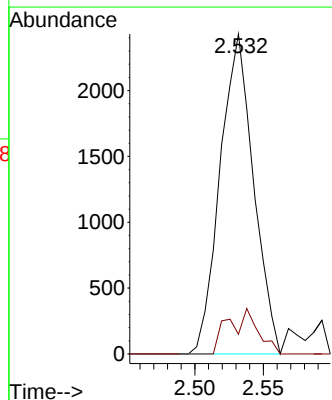
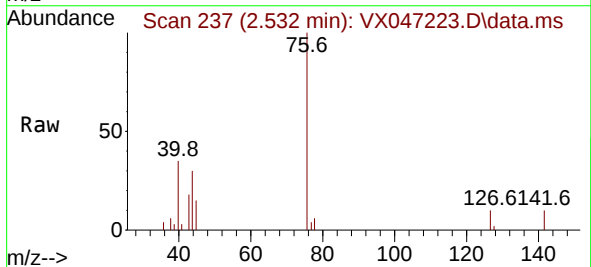
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

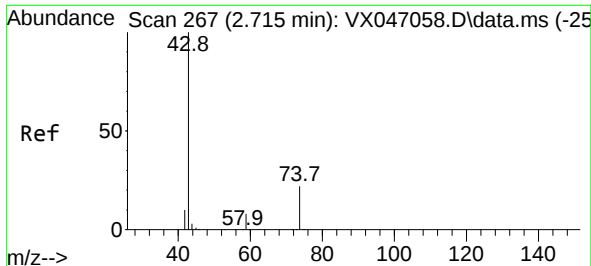
Tgt Ion: 43 Resp: 47466
Ion Ratio Lower Upper
43 100
58 28.5 24.0 36.0



#17
Carbon Disulfide
Concen: 0.275 ug/l
RT: 2.532 min Scan# 237
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 76 Resp: 4119
Ion Ratio Lower Upper
76 100
78 6.1 7.0 10.4#

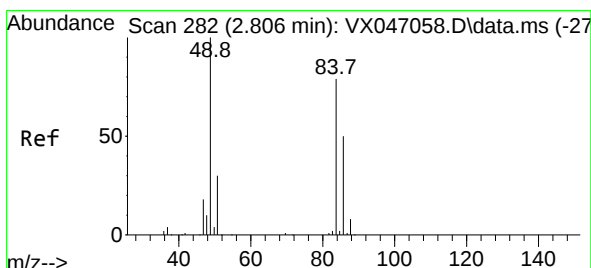
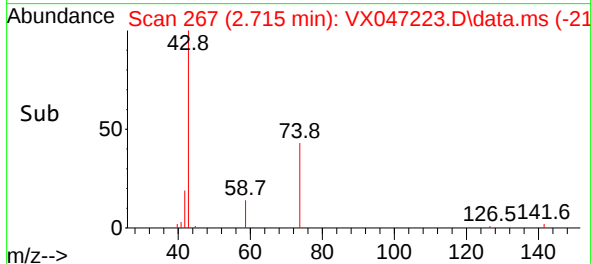
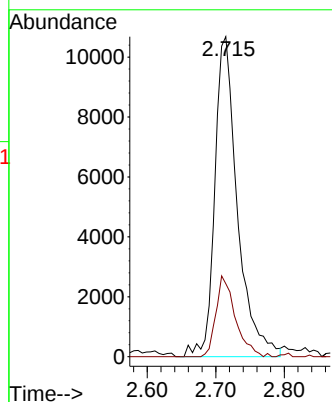
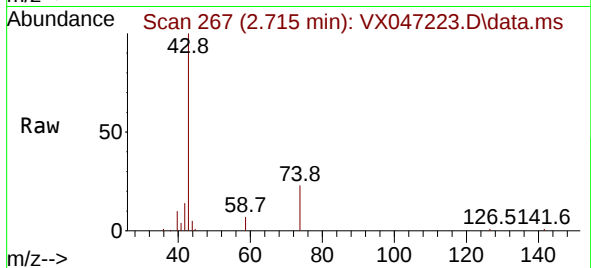




#18
Methyl Acetate
Concen: 4.495 ug/l
RT: 2.715 min Scan# 20
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

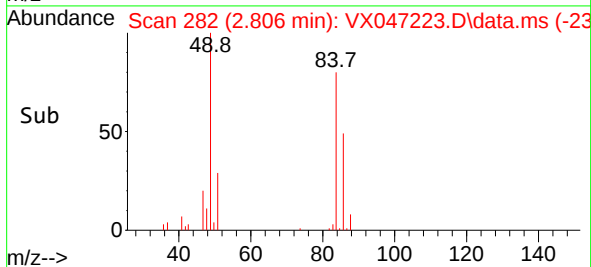
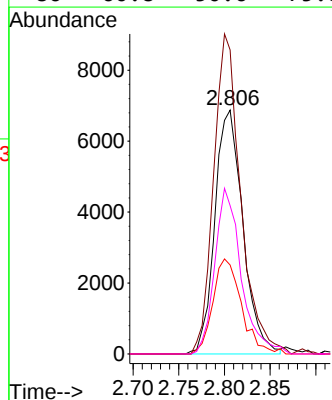
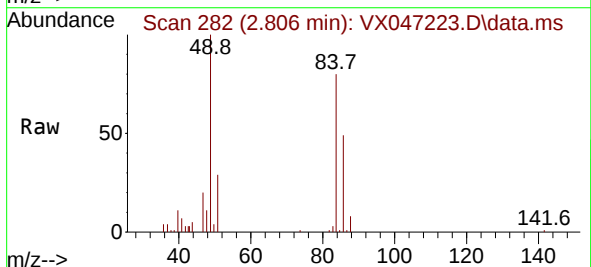
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MSVOA_X
ClientSampleId :
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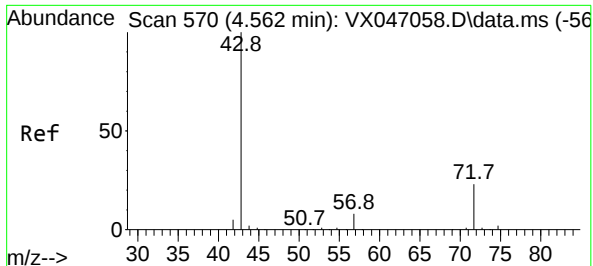
Tgt Ion: 43 Resp: 24535
Ion Ratio Lower Upper
43 100
74 21.7 17.7 26.5



#20
Methylene Chloride
Concen: 2.603 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 84 Resp: 14705
Ion Ratio Lower Upper
84 100
49 124.7 101.6 152.4
51 36.5 30.3 45.5
86 60.8 50.6 75.8

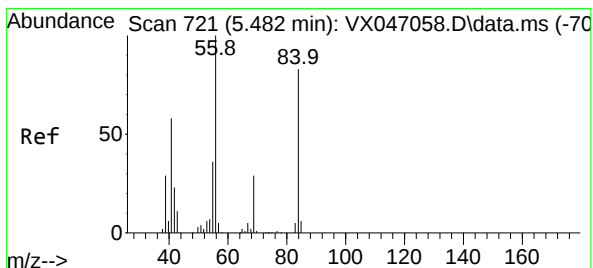
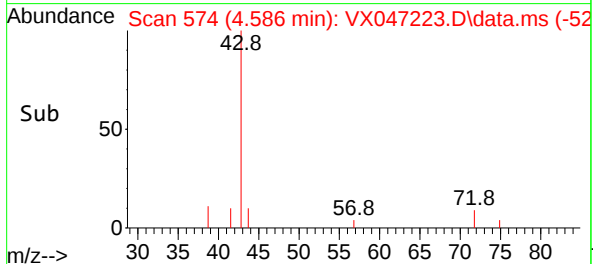
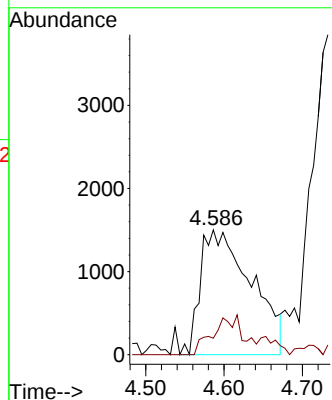
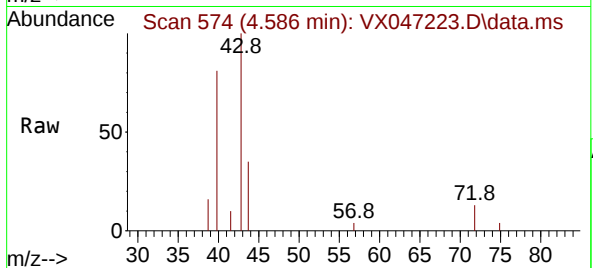




#25
2-Butanone
Concen: 2.267 ug/l
RT: 4.586 min Scan# 51
Delta R.T. 0.024 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

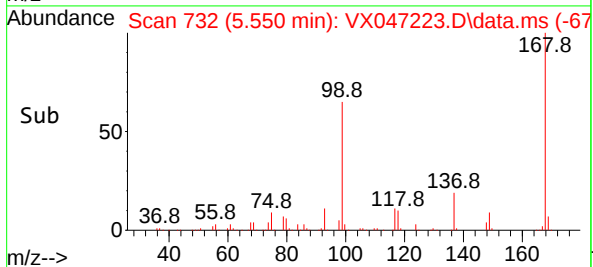
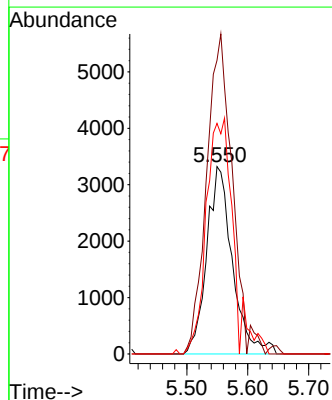
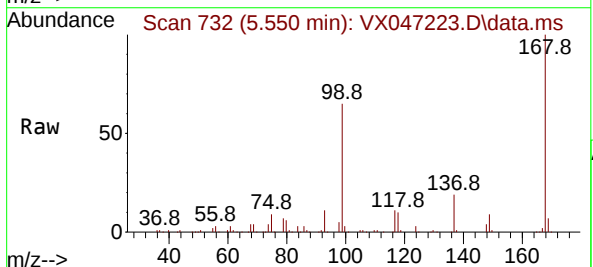
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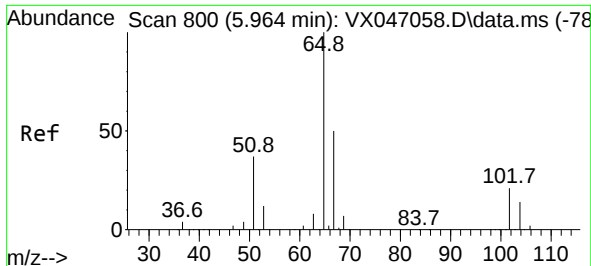
Tgt Ion: 43 Resp: 6779
Ion Ratio Lower Upper
43 100
72 14.2 18.8 28.2#



#31
Cyclohexane
Concen: 1.014 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.067 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 56 Resp: 9718
Ion Ratio Lower Upper
56 100
69 156.7 23.3 34.9#
84 123.1 66.5 99.7#





#33

1,2-Dichloroethane-d4

Concen: 54.937 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX047223.D

Acq: 04 Aug 2025 13:00

Instrument :

MSVOA_X

ClientSampleId :

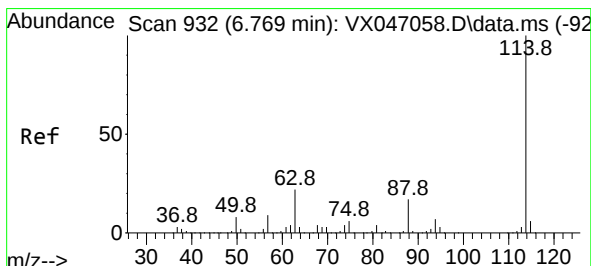
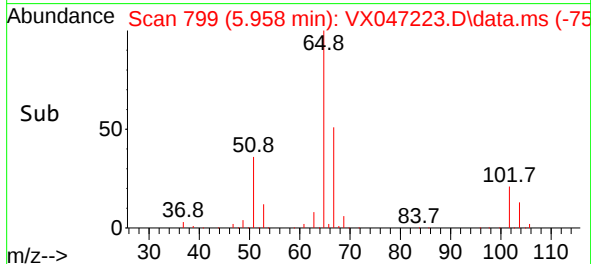
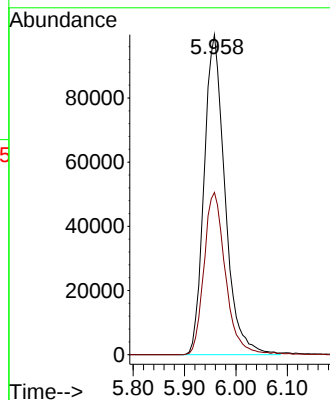
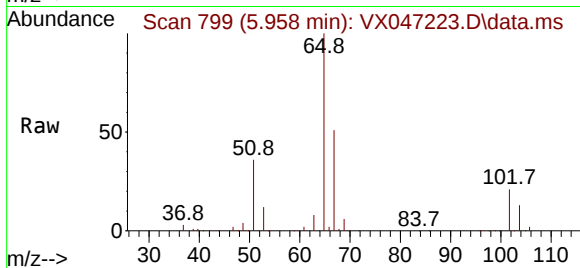
PB169082TB

Tgt Ion: 65 Resp: 281646

Ion Ratio Lower Upper

65 100

67 52.2 0.0 104.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX047223.D

Acq: 04 Aug 2025 13:00

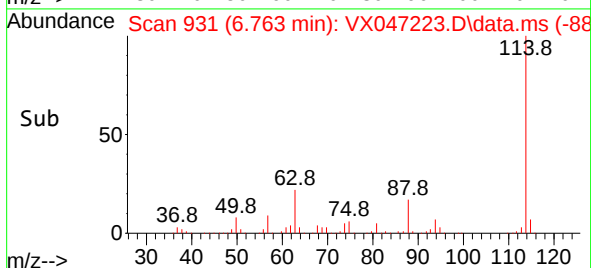
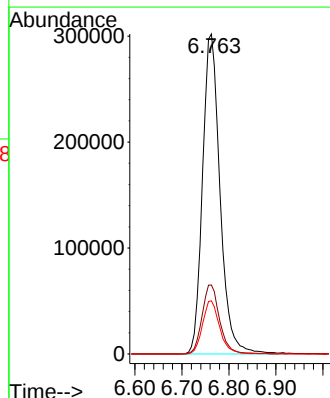
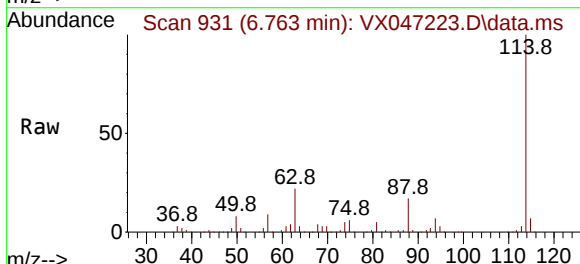
Tgt Ion: 114 Resp: 780350

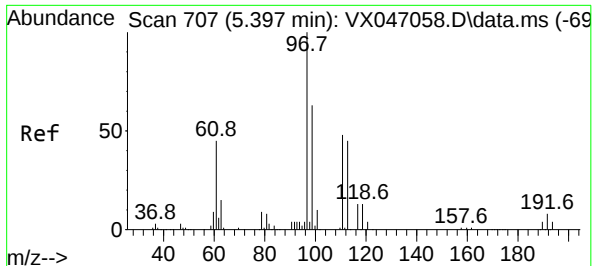
Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.2

88 16.6 0.0 33.8

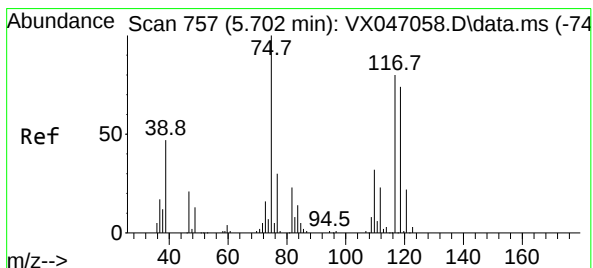
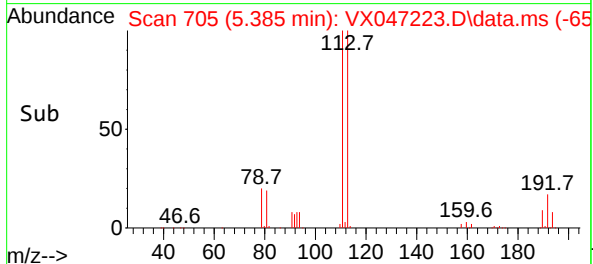
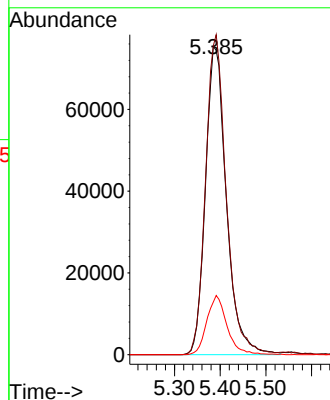
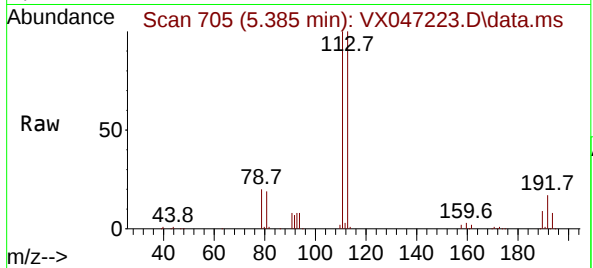




#35
Dibromofluoromethane
Concen: 49.826 ug/l
RT: 5.385 min Scan# 705
Delta R.T. -0.012 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

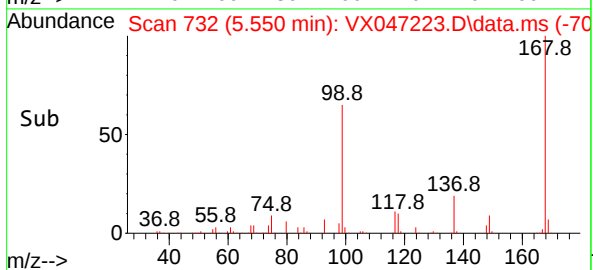
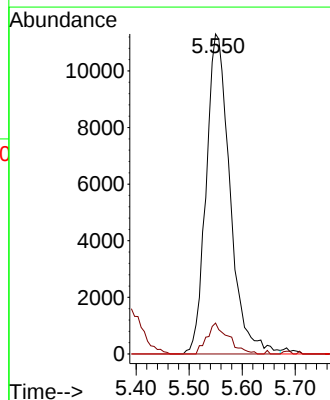
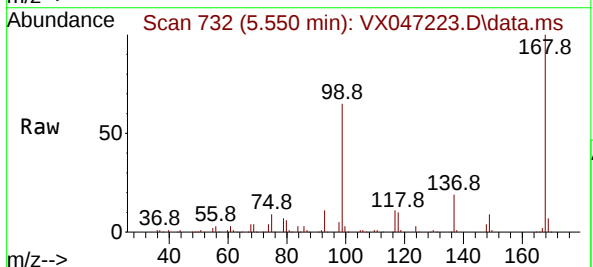
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

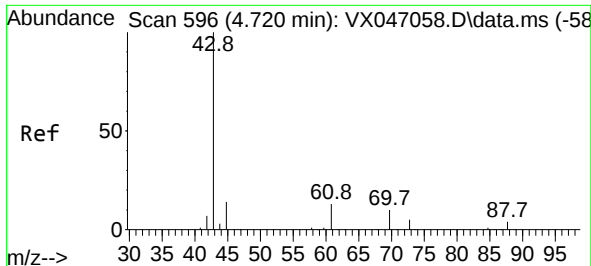
Tgt Ion:113 Resp: 240067
Ion Ratio Lower Upper
113 100
111 102.5 82.6 124.0
192 18.5 14.9 22.3



#36
1,1-Dichloropropene
Concen: 4.295 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.152 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 75 Resp: 35273
Ion Ratio Lower Upper
75 100
110 8.7 17.2 51.5#
77 0.0 25.1 37.7#

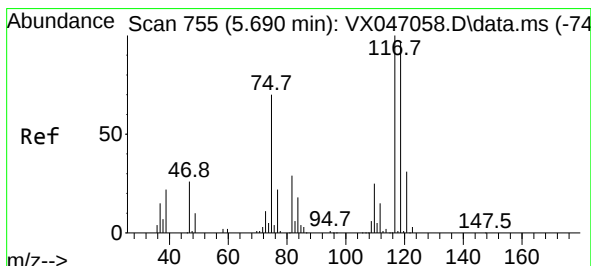
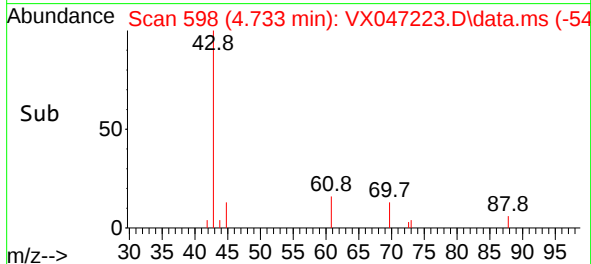
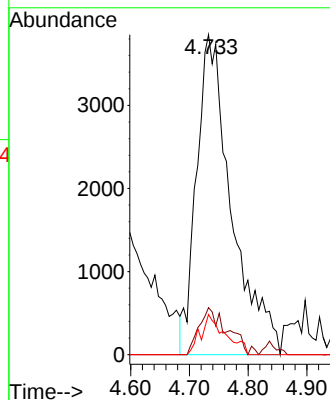
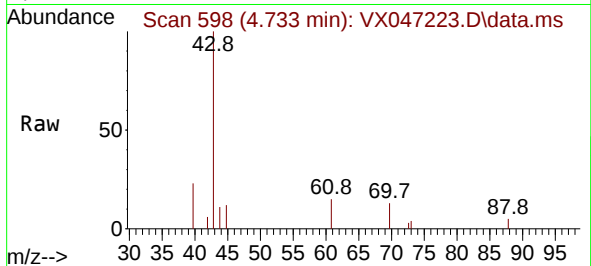




#37
Ethyl Acetate
Concen: 2.107 ug/l
RT: 4.733 min Scan# 596
Delta R.T. 0.012 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

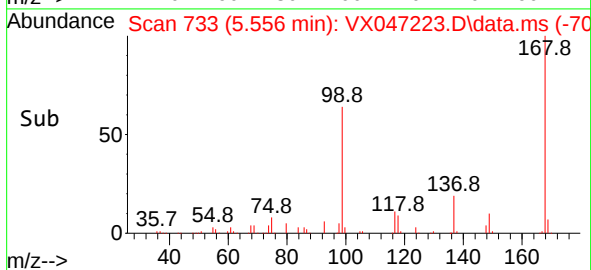
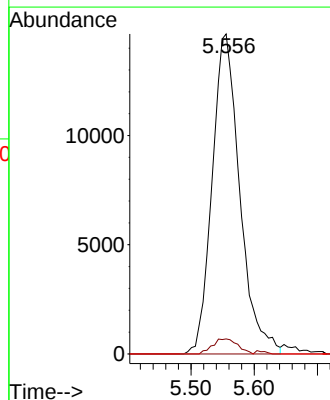
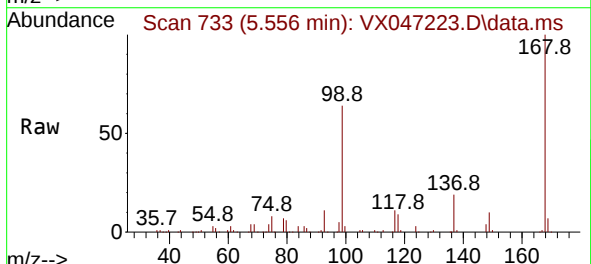
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

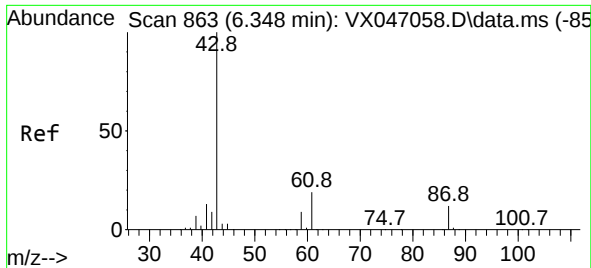
Tgt Ion: 43 Resp: 15943
Ion Ratio Lower Upper
43 100
61 9.1 10.2 15.2#
70 8.8 8.1 12.1



#38
Carbon Tetrachloride
Concen: 5.075 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 117 Resp: 44486
Ion Ratio Lower Upper
117 100
119 4.7 76.6 115.0#
121 0.0 24.4 36.6#

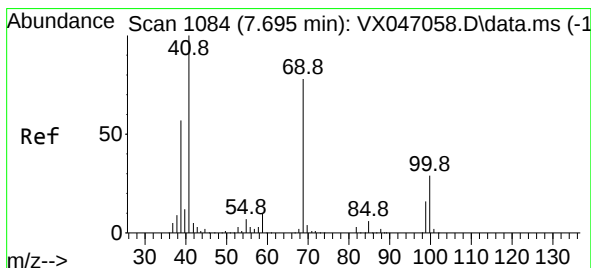
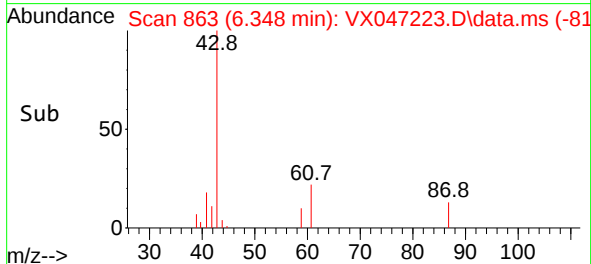
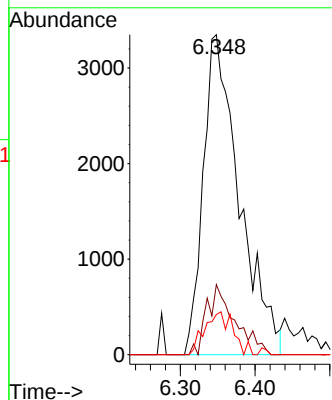
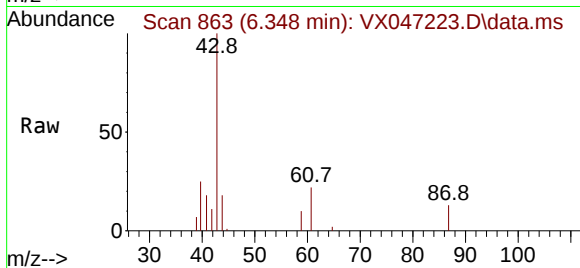




#43
Isopropyl Acetate
Concen: 0.954 ug/l
RT: 6.348 min Scan# 81
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

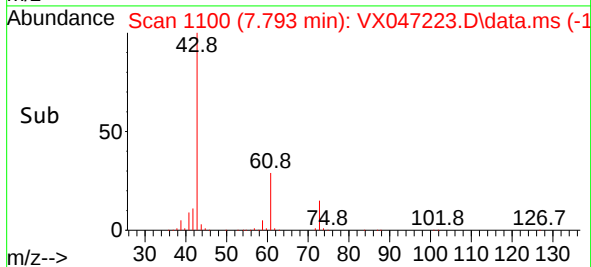
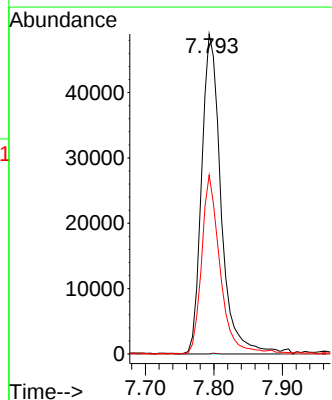
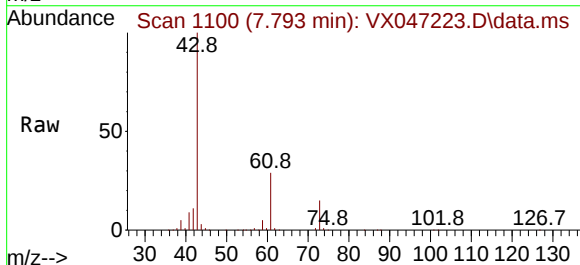
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

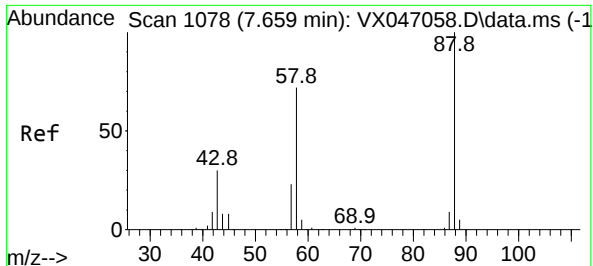
Tgt Ion: 43 Resp: 11256
Ion Ratio Lower Upper
43 100
61 17.3 15.1 22.7
87 10.5 9.7 14.5



#48
Methyl methacrylate
Concen: 14.996 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.098 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 41 Resp: 96382
Ion Ratio Lower Upper
41 100
69 0.1 62.3 93.5#
39 53.5 44.8 67.2





#49

1,4-Dioxane

Concen: 1.669 ug/l

RT: 7.702 min Scan# 1085

Delta R.T. 0.043 min

Lab File: VX047223.D

Acq: 04 Aug 2025 13:00

Instrument :

MSVOA_X

ClientSampleId :

PB169082TB

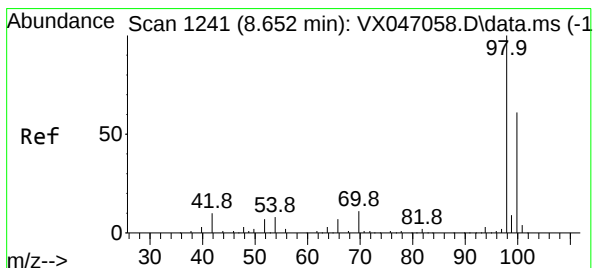
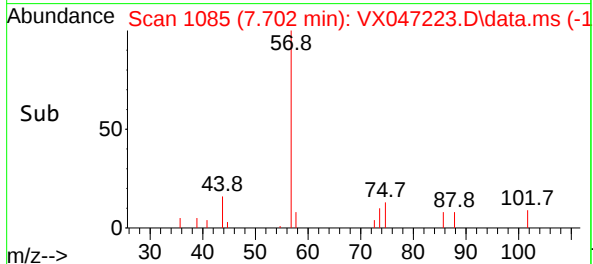
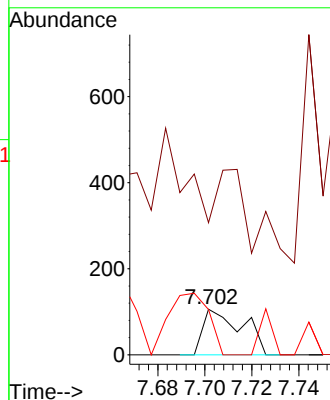
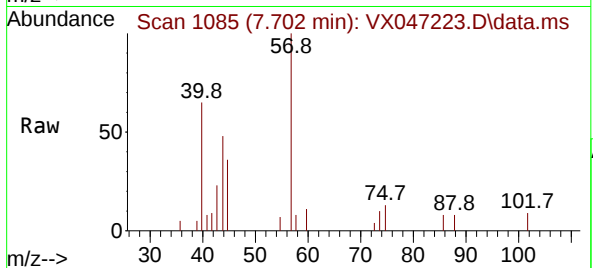
Tgt Ion: 88 Resp: 122

Ion Ratio Lower Upper

88 100

43 0.0 33.6 50.4#

58 140.2 58.8 88.2#



#50

Toluene-d8

Concen: 55.231 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. -0.006 min

Lab File: VX047223.D

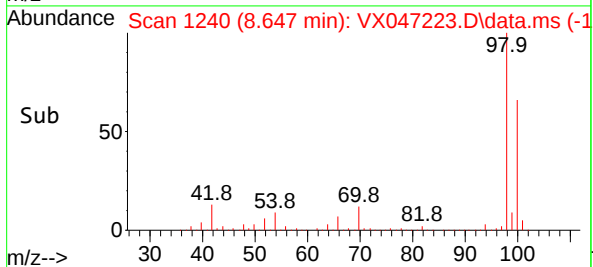
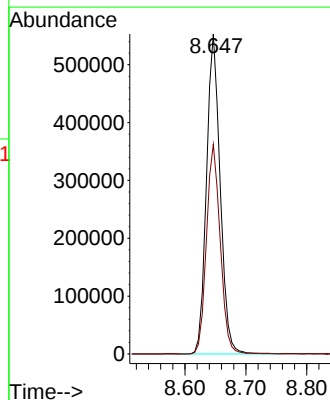
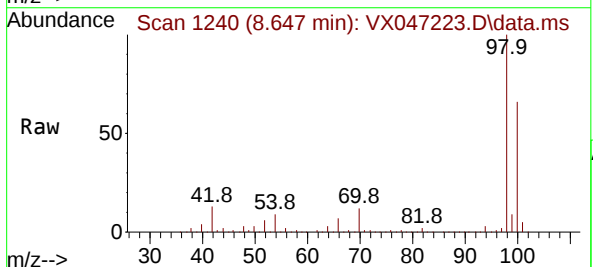
Acq: 04 Aug 2025 13:00

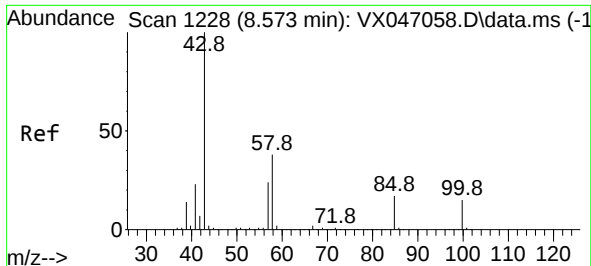
Tgt Ion: 98 Resp: 861798

Ion Ratio Lower Upper

98 100

100 66.1 53.3 79.9

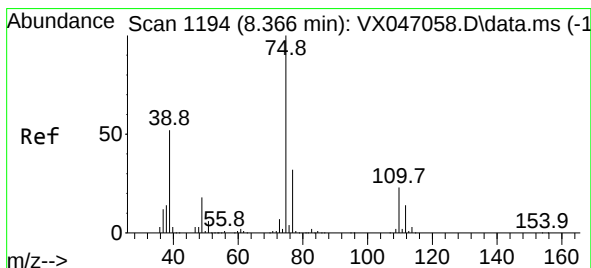
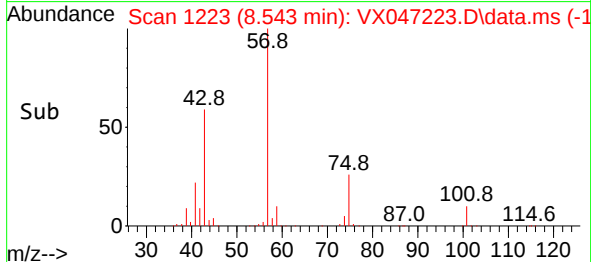
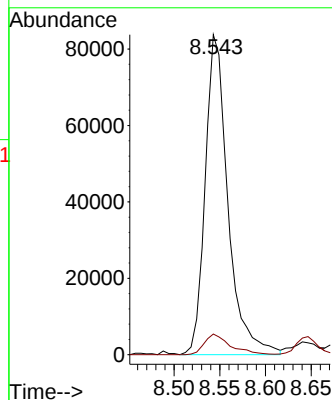
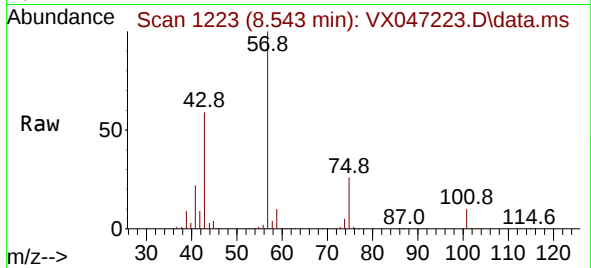




#51
4-Methyl-2-Pentanone
Concen: 20.649 ug/l
RT: 8.543 min Scan# 11
Delta R.T. -0.030 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

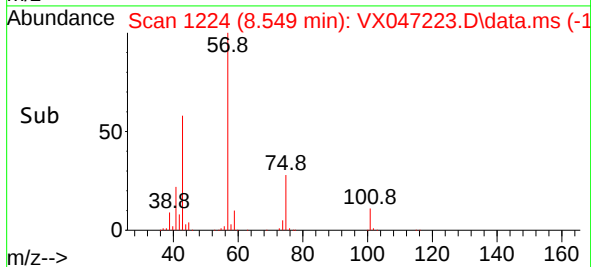
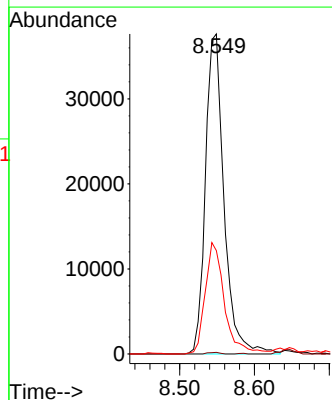
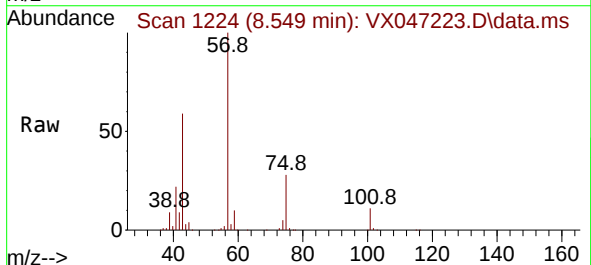
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

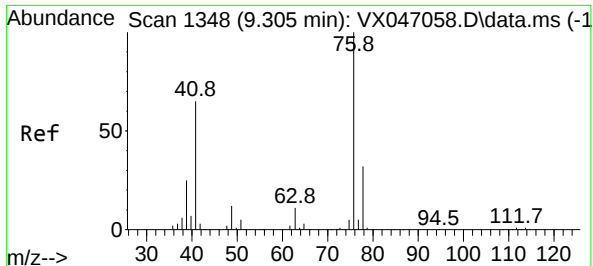
Tgt Ion: 43 Resp: 144805
Ion Ratio Lower Upper
43 100
58 7.4 30.6 45.8#



#54
cis-1,3-Dichloropropene
Concen: 7.064 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. 0.183 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 75 Resp: 64876
Ion Ratio Lower Upper
75 100
77 0.5 25.4 38.0#
39 30.4 41.8 62.6#





#57

1,3-Dichloropropane

Concen: 0.489 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX047223.D

Acq: 04 Aug 2025 13:00

Instrument :

MSVOA_X

ClientSampleId :

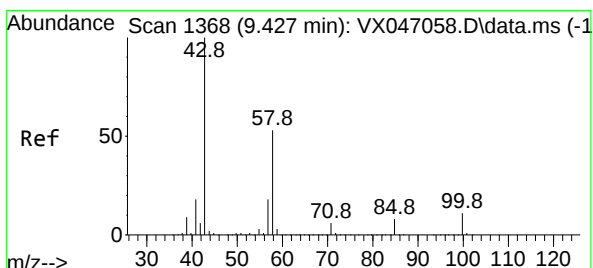
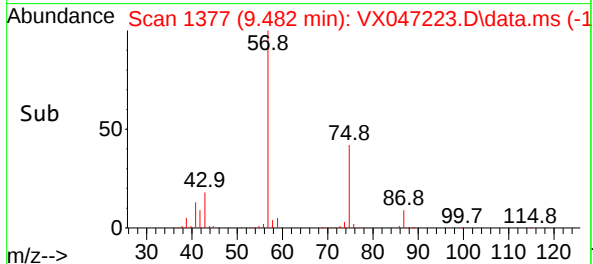
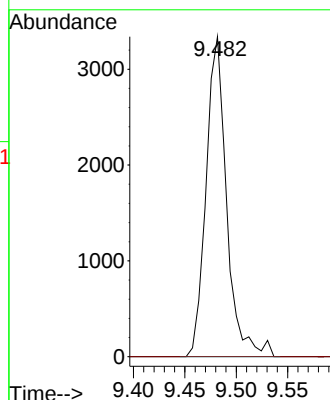
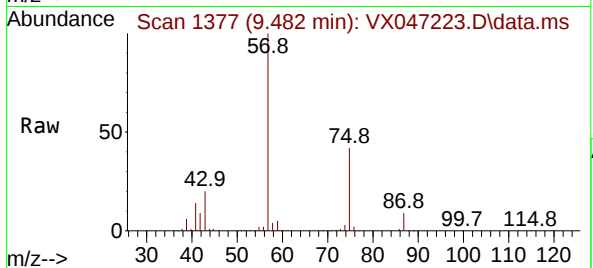
PB169082TB

Tgt Ion: 76 Resp: 4654

Ion Ratio Lower Upper

76 100

78 0.0 25.5 38.3#



#59

2-Hexanone

Concen: 3.837 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX047223.D

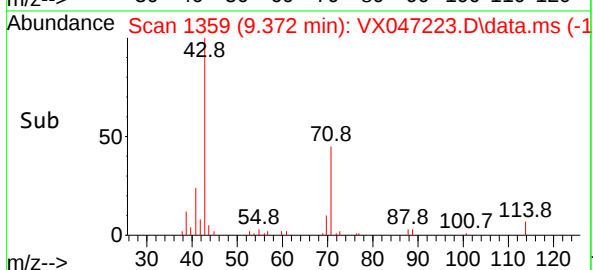
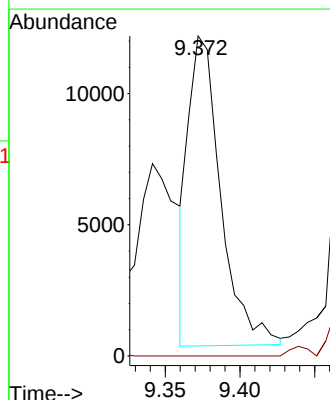
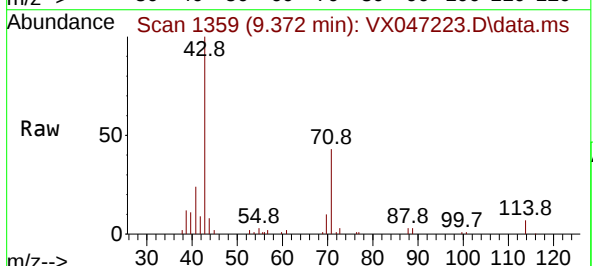
Acq: 04 Aug 2025 13:00

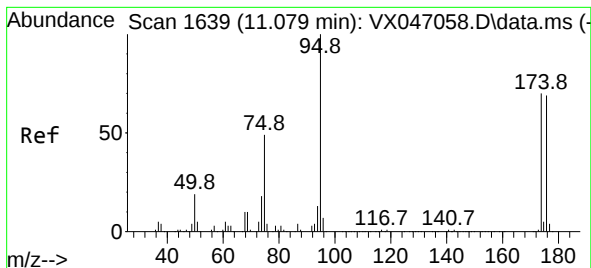
Tgt Ion: 43 Resp: 17777

Ion Ratio Lower Upper

43 100

58 0.0 26.5 79.5#

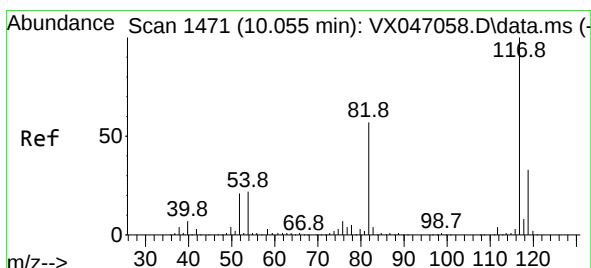
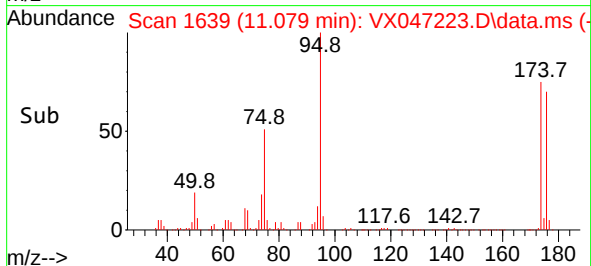
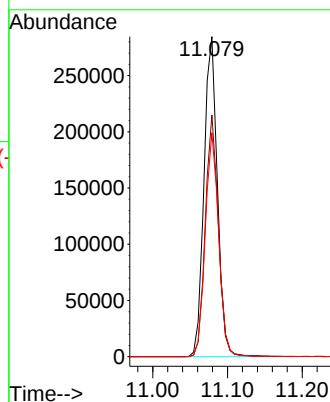
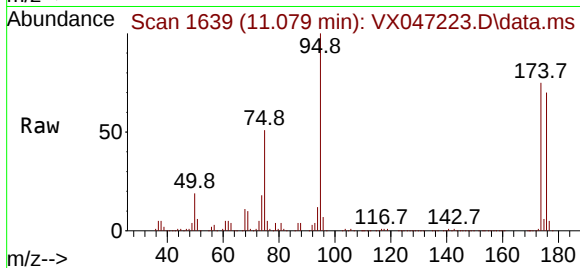




#62
4-Bromofluorobenzene
Concen: 52.741 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

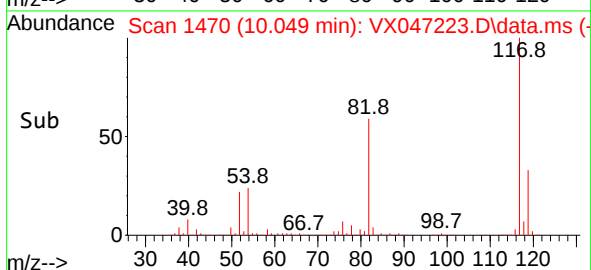
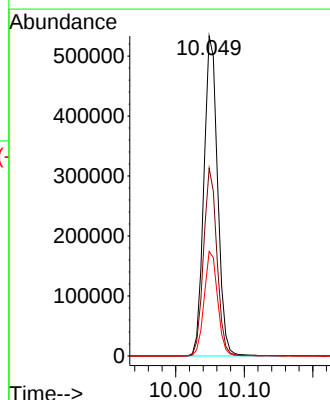
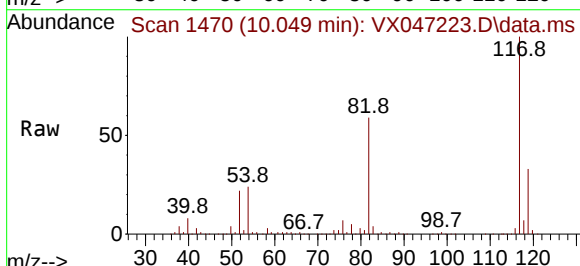
Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

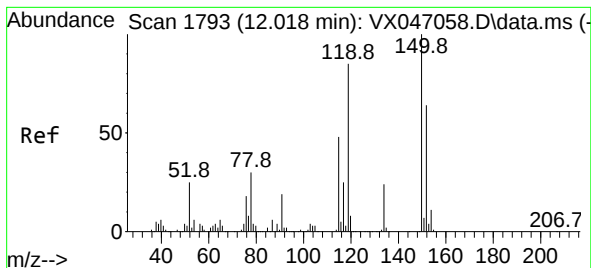
Tgt Ion: 95 Resp: 354642
Ion Ratio Lower Upper
95 100
174 74.0 0.0 144.6
176 69.9 0.0 139.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. -0.006 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 117 Resp: 743675
Ion Ratio Lower Upper
117 100
82 58.7 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: VX047223.D

Acq: 04 Aug 2025 13:00

Instrument :

MSVOA_X

ClientSampleId :

PB169082TB

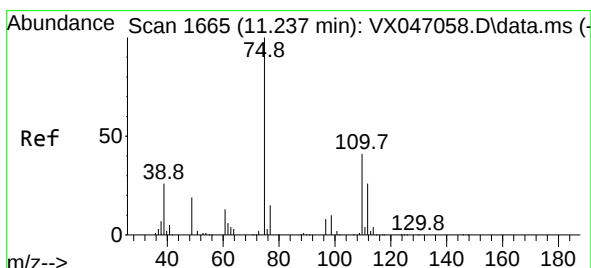
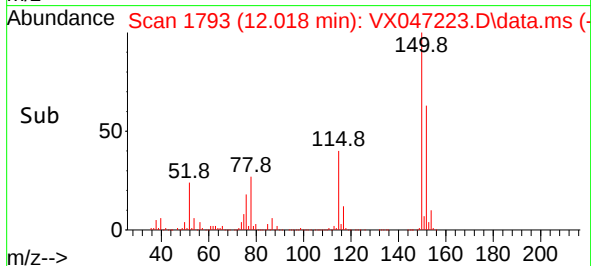
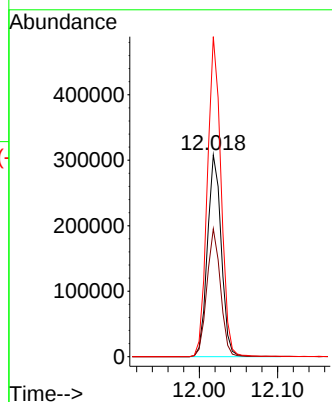
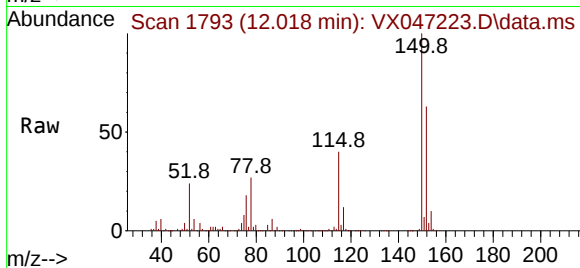
Tgt Ion:152 Resp: 376199

Ion Ratio Lower Upper

152 100

115 62.3 45.6 136.7

150 156.9 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 26.903 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047223.D

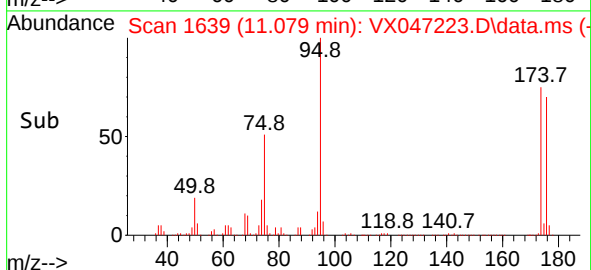
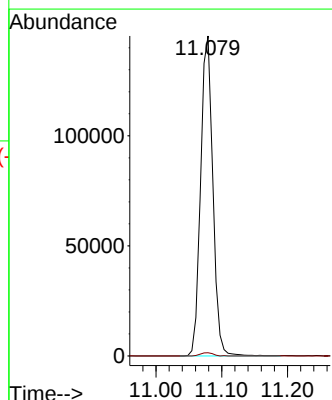
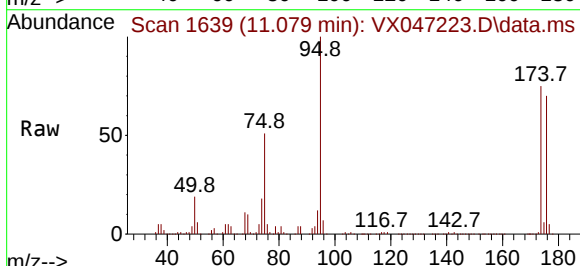
Acq: 04 Aug 2025 13:00

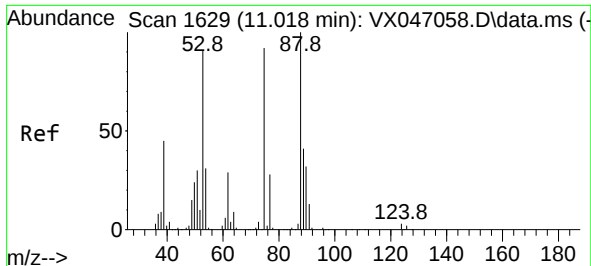
Tgt Ion: 75 Resp: 187332

Ion Ratio Lower Upper

75 100

77 1.1 21.6 65.0#

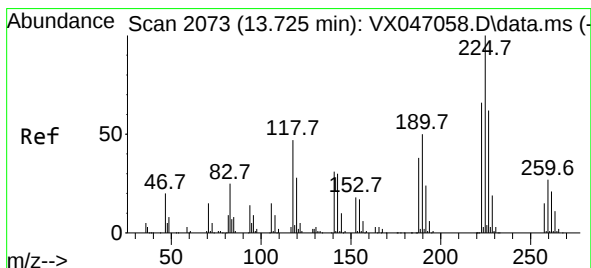
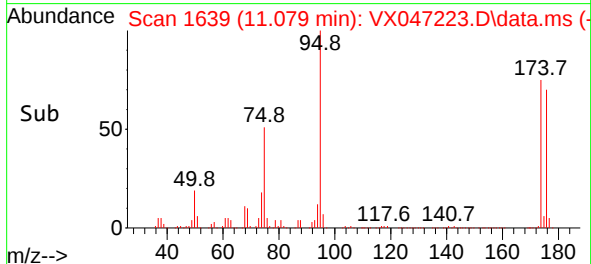
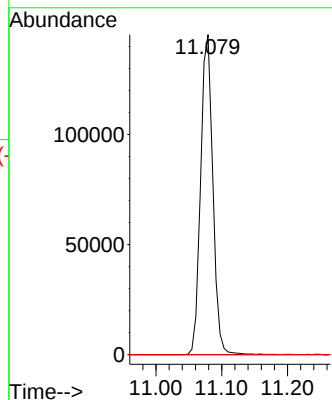
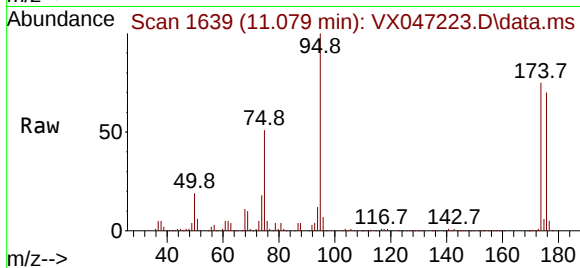




#81
trans-1,4-Dichloro-2-butene
Concen: 69.313 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Instrument :
MSVOA_X
ClientSampleId :
PB169082TB

Tgt Ion: 75 Resp: 187332
Ion Ratio Lower Upper
75 100
53 0.0 84.2 126.4#
89 0.0 36.0 54.0#



#94
Hexachlorobutadiene
Concen: 0.476 ug/l
RT: 13.725 min Scan# 2073
Delta R.T. 0.000 min
Lab File: VX047223.D
Acq: 04 Aug 2025 13:00

Tgt Ion: 225 Resp: 1384
Ion Ratio Lower Upper
225 100
223 77.6 31.6 95.0
227 66.7 32.9 98.6

