

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
 Data File : VX048154.D
 Acq On : 14 Oct 2025 10:32
 Operator : JC/MD
 Sample : VX1014MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Oct 15 02:39:51 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.531	168	92850	50.000	ug/l	-0.01
34) 1,4-Difluorobenzene	6.745	114	189331	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	199229	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	93640	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	83770	56.680	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 113.360%	
35) Dibromofluoromethane	5.367	113	70575	55.581	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 111.160%	
50) Toluene-d8	8.635	98	236315	53.786	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 107.580%	
62) 4-Bromofluorobenzene	11.061	95	98413	59.020	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 118.040%	

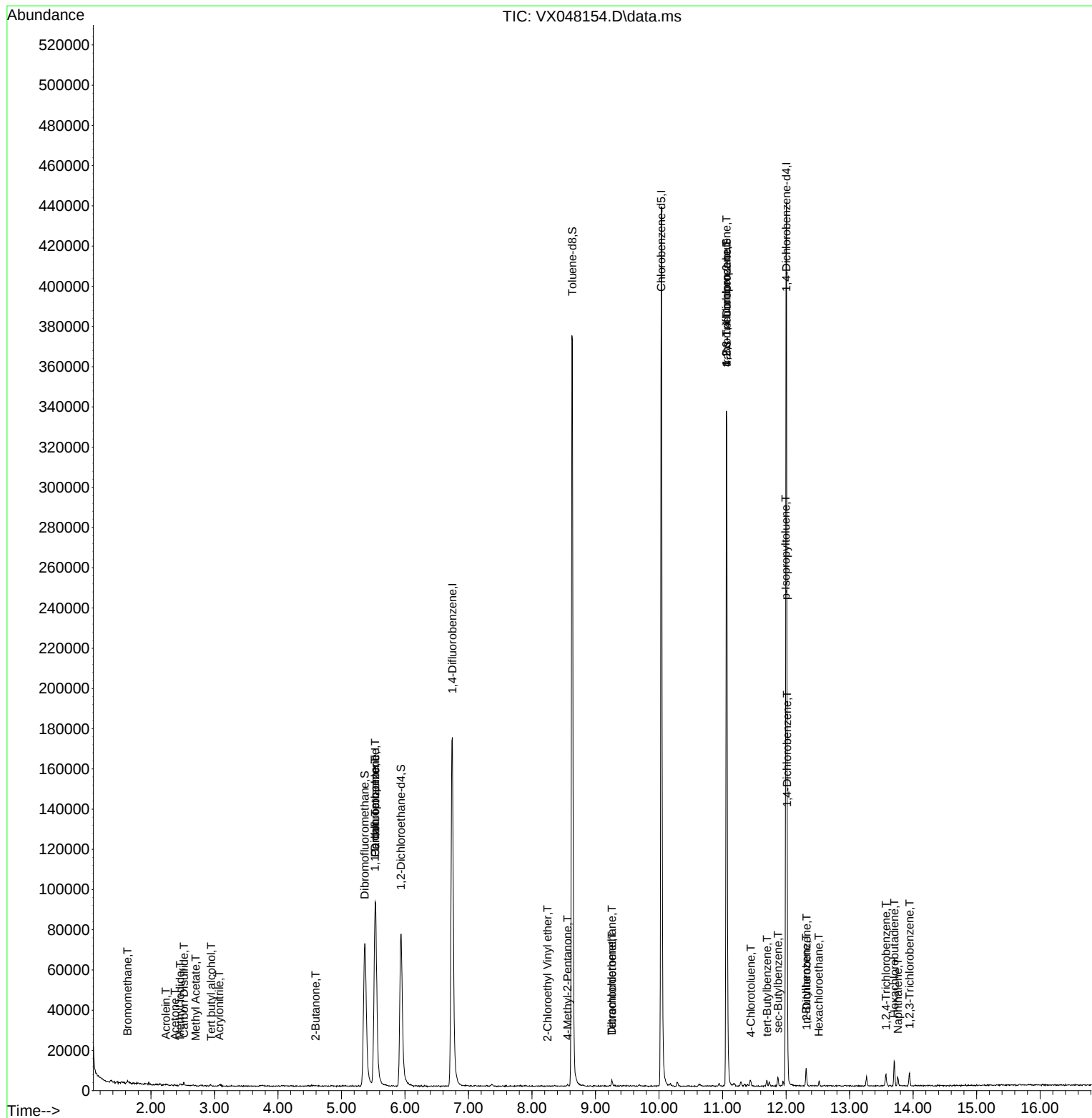
Target Compounds					Qvalue	
5) Bromomethane	1.630	94	353	0.450	ug/l #	80
10) Methyl Iodide	2.459	142	1379	0.823	ug/l #	81
11) Tert butyl alcohol	2.947	59	155	0.942	ug/l #	72
13) Acrolein	2.233	56	159	1.048	ug/l #	51
15) Acrylonitrile	3.075	53	441	0.723	ug/l #	48
16) Acetone	2.380	43	570	0.887	ug/l #	45
17) Carbon Disulfide	2.520	76	2017	0.668	ug/l	95
18) Methyl Acetate	2.703	43	287	0.201	ug/l #	54
25) 2-Butanone	4.593	43	189	0.236	ug/l #	50
36) 1,1-Dichloropropene	5.525	75	8181	4.409	ug/l #	50
38) Carbon Tetrachloride	5.531	117	9835	4.879	ug/l #	19
51) 4-Methyl-2-Pentanone	8.561	43	589	0.326	ug/l #	73
58) 2-Chloroethyl Vinyl ether	8.244	63	48	7.940	ug/l #	47
60) Dibromochloromethane	9.256	129	530	0.344	ug/l #	11
64) Tetrachloroethane	9.256	164	528	0.407	ug/l #	91
76) 1,2,3-Trichloropropane	11.061	75	52644	27.767	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	52644	70.810	ug/l #	8
82) 4-Chlorotoluene	11.445	91	1291	0.212	ug/l	85
83) tert-Butylbenzene	11.701	119	1305	0.218	ug/l	89
85) sec-Butylbenzene	11.872	105	2534	0.356	ug/l	97
86) p-Isopropyltoluene	11.994	119	2122	0.352	ug/l #	84
88) 1,4-Dichlorobenzene	12.018	146	1082	0.324	ug/l #	1
89) n-Butylbenzene	12.317	91	3324	0.597	ug/l	93
90) Hexachloroethane	12.518	117	435	0.412	ug/l	92
91) 1,2-Dichlorobenzene	12.323	146	735	0.237	ug/l	97
93) 1,2,4-Trichlorobenzene	13.573	180	1636	0.811	ug/l	92
94) Hexachlorobutadiene	13.707	225	1887	2.755	ug/l	95
95) Naphthalene	13.762	128	3538	0.576	ug/l #	87
96) 1,2,3-Trichlorobenzene	13.945	180	1710	0.912	ug/l	98

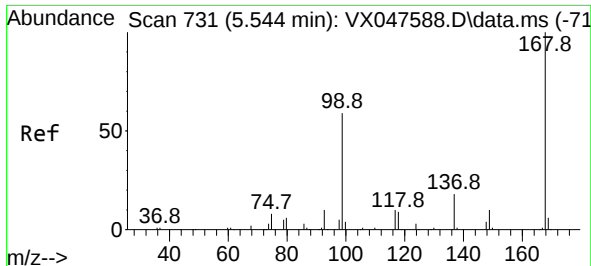
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101425\
Data File : VX048154.D
Acq On : 14 Oct 2025 10:32
Operator : JC/MD
Sample : VX1014MBL01
Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :

Quant Time: Oct 15 02:39:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
Quant Title : SW846 8260
QLast Update : Wed Sep 17 06:39:58 2025
Response via : Initial Calibration

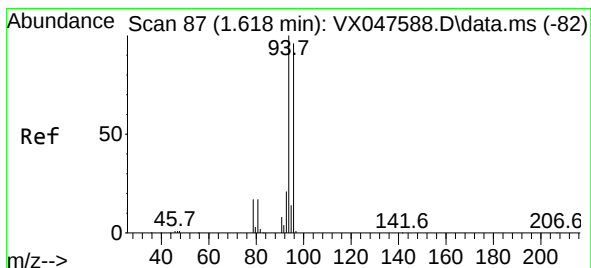
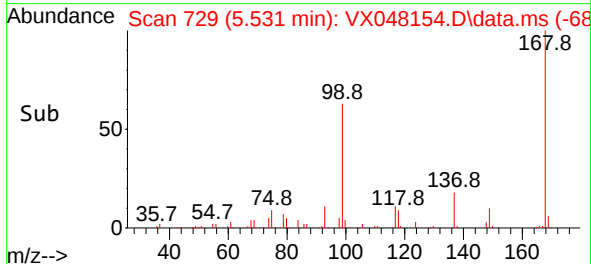
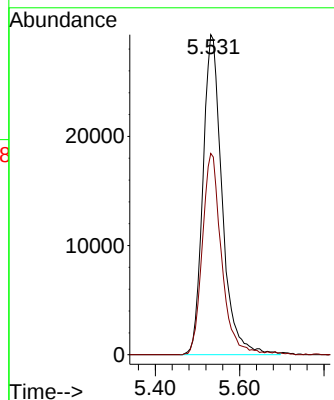
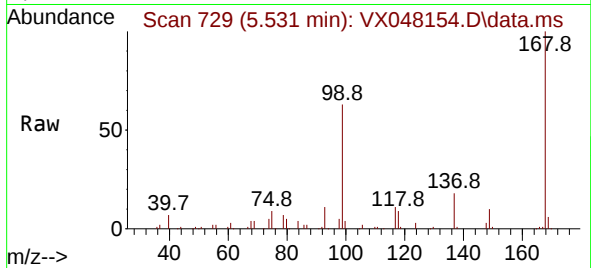




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.013 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

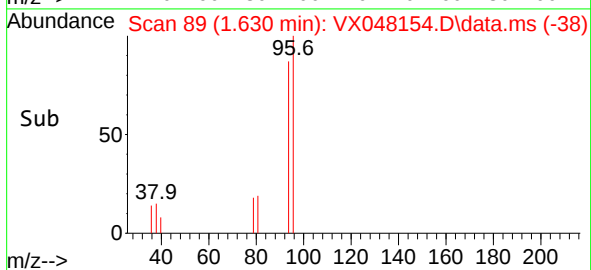
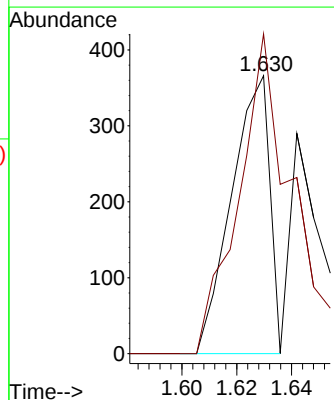
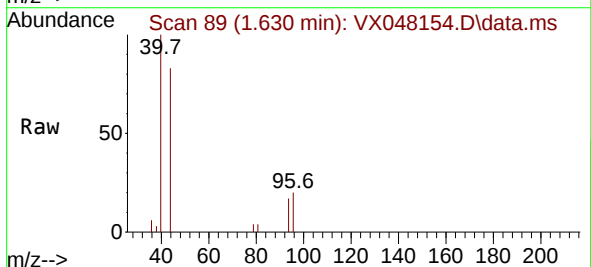
Instrument :
MSVOA_X
ClientSampleId :

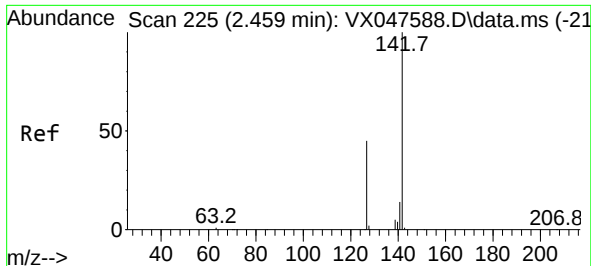
Tgt Ion:168 Resp: 92850
Ion Ratio Lower Upper
168 100
99 62.9 48.8 73.2



#5
Bromomethane
Concen: 0.450 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

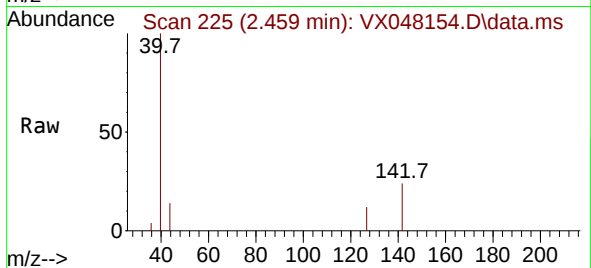
Tgt Ion: 94 Resp: 353
Ion Ratio Lower Upper
94 100
96 115.0 76.6 115.0#



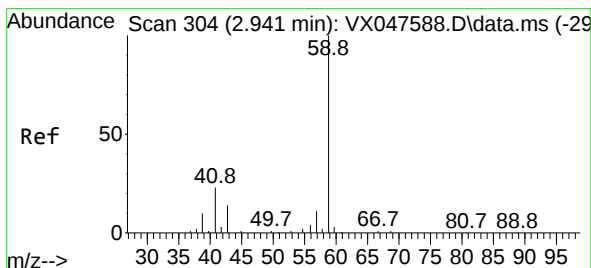
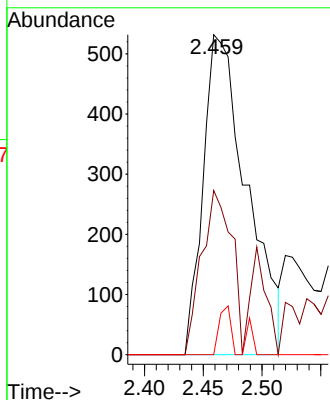
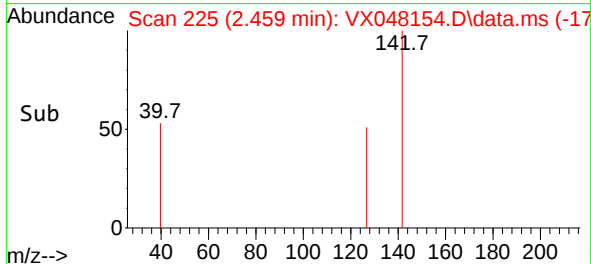


#10
Methyl Iodide
Concen: 0.823 ug/l
RT: 2.459 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Instrument :
MSVOA_X
ClientSampleId :

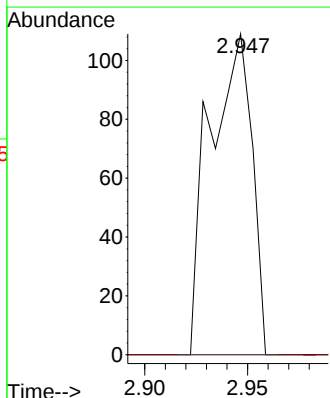
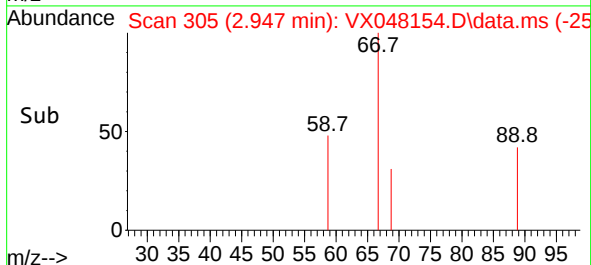
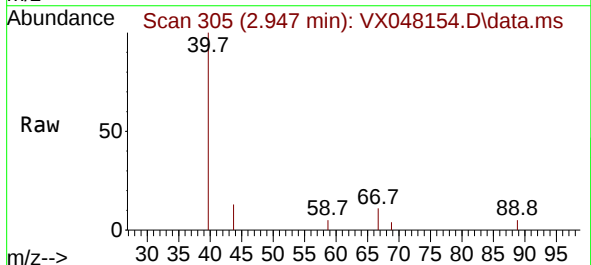


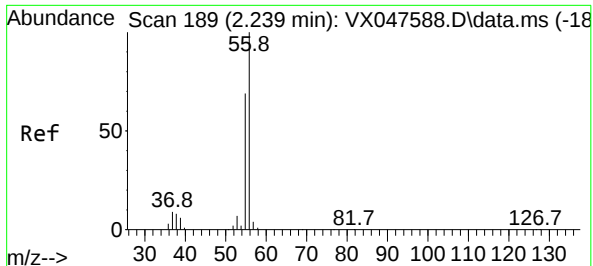
Tgt Ion:142 Resp: 1379
Ion Ratio Lower Upper
142 100
127 35.2 37.2 55.8#
141 4.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 0.942 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

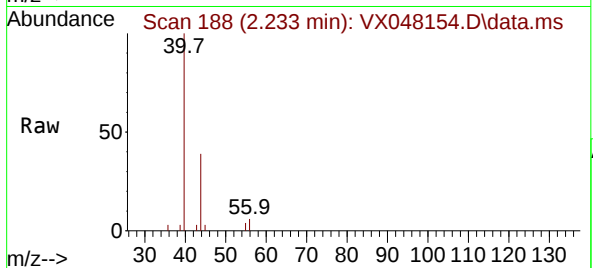
Tgt Ion: 59 Resp: 155
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



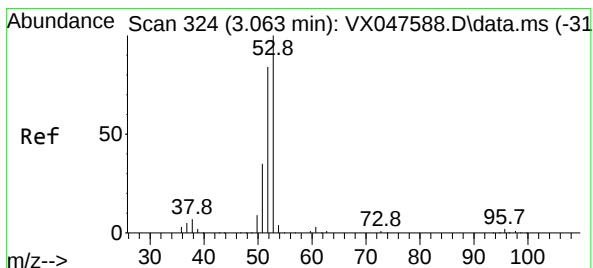
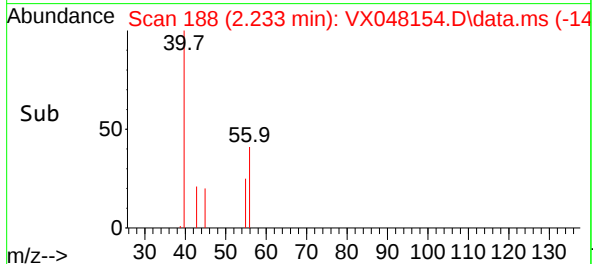
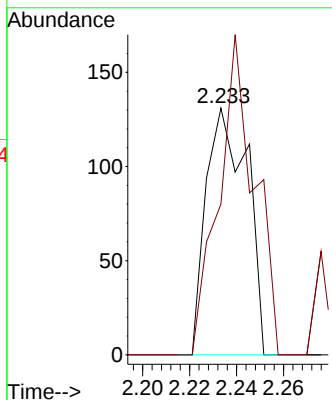


#13
Acrolein
Concen: 1.048 ug/l
RT: 2.233 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Instrument :
MSVOA_X
ClientSampleId :

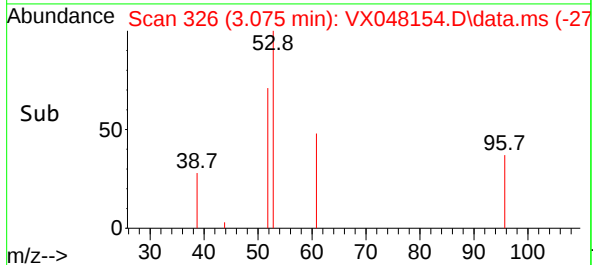
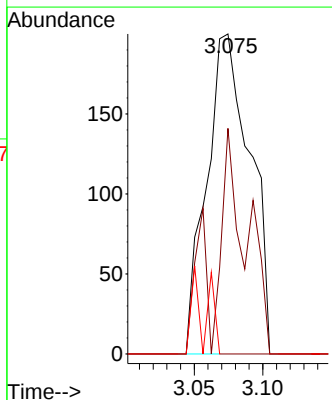
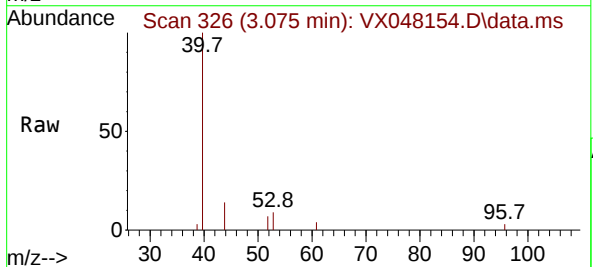


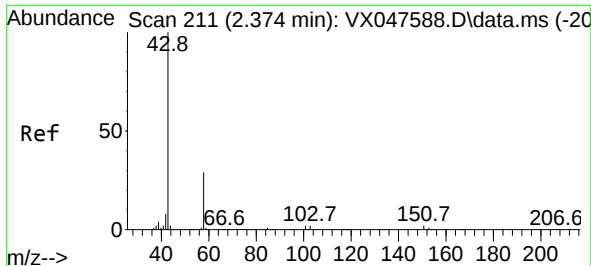
Tgt Ion: 56 Resp: 159
Ion Ratio Lower Upper
56 100
55 112.6 57.2 85.8#



#15
Acrylonitrile
Concen: 0.723 ug/l
RT: 3.075 min Scan# 326
Delta R.T. 0.012 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 53 Resp: 441
Ion Ratio Lower Upper
53 100
52 39.9 66.4 99.6#
51 0.0 29.5 44.3#

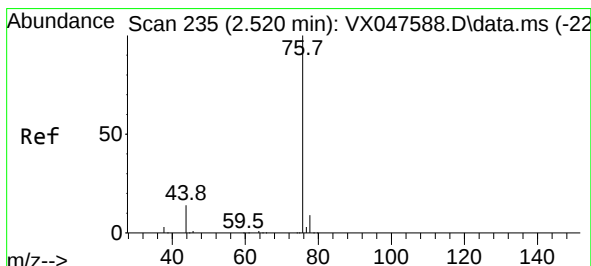
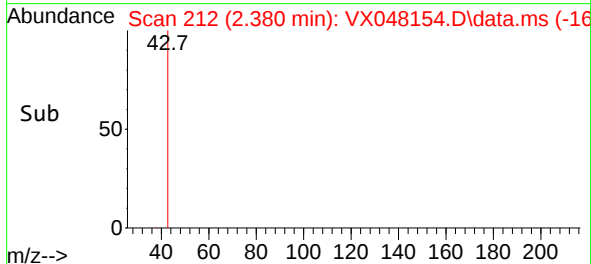
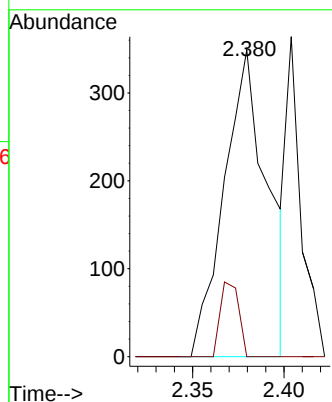
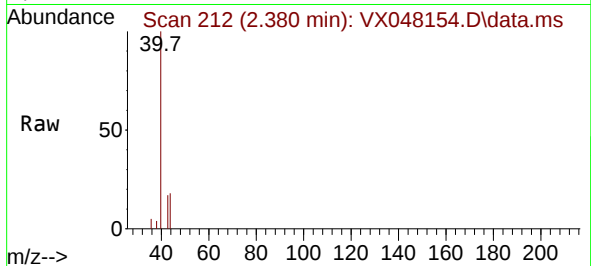




#16
Acetone
Concen: 0.887 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

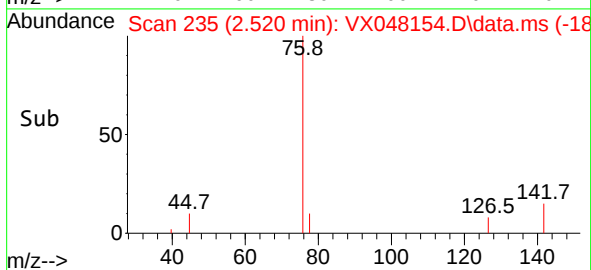
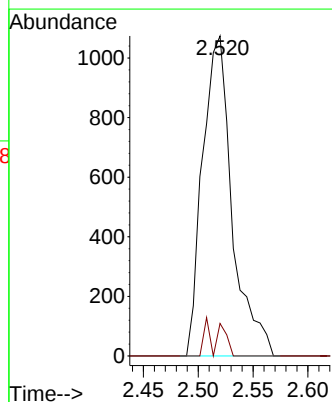
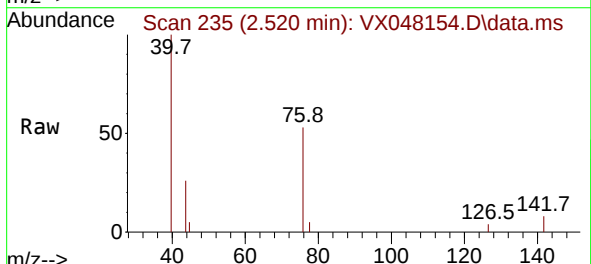
Instrument :
MSVOA_X
ClientSampleId :

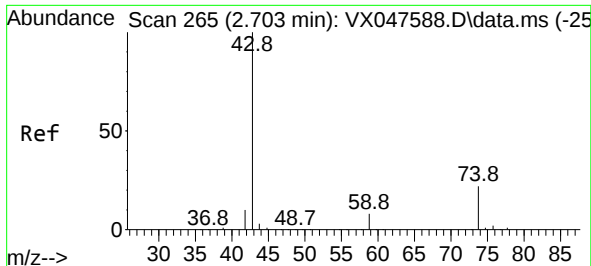
Tgt Ion: 43 Resp: 570
Ion Ratio Lower Upper
43 100
58 0.0 23.4 35.0#



#17
Carbon Disulfide
Concen: 0.668 ug/l
RT: 2.520 min Scan# 235
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 76 Resp: 2017
Ion Ratio Lower Upper
76 100
78 10.1 6.8 10.2





#18

Methyl Acetate

Concen: 0.201 ug/l

RT: 2.703 min Scan# 2

Delta R.T. -0.000 min

Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

Instrument :

MSVOA_X

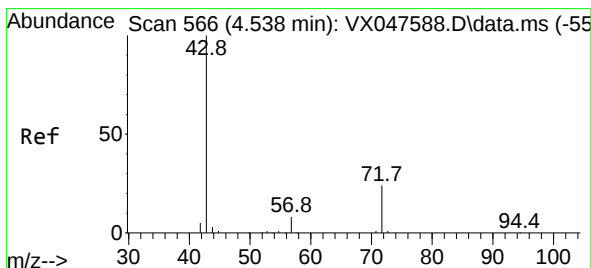
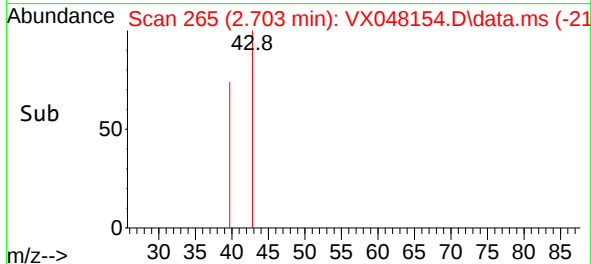
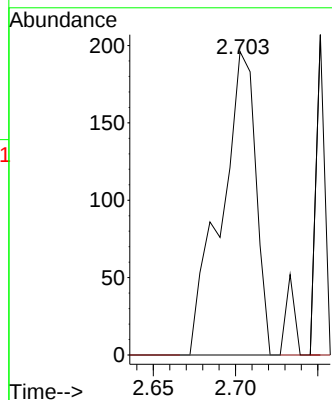
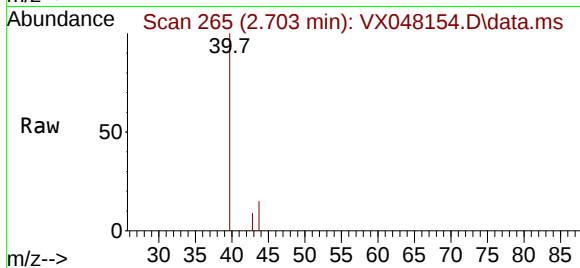
ClientSampleId :

Tgt Ion: 43 Resp: 287

Ion Ratio Lower Upper

43 100

74 0.0 17.4 26.2#



#25

2-Butanone

Concen: 0.236 ug/l

RT: 4.593 min Scan# 575

Delta R.T. 0.055 min

Lab File: VX048154.D

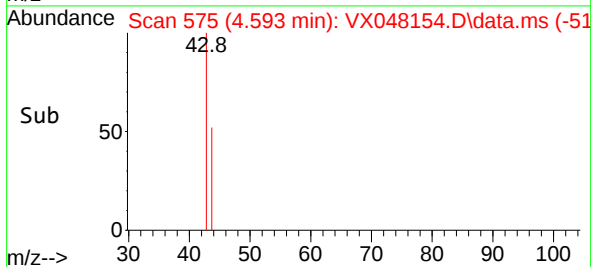
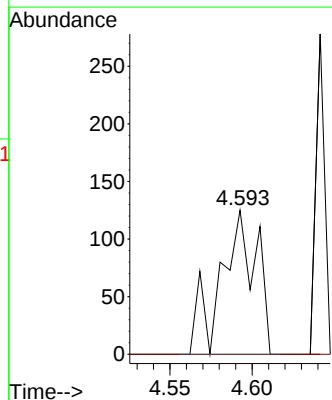
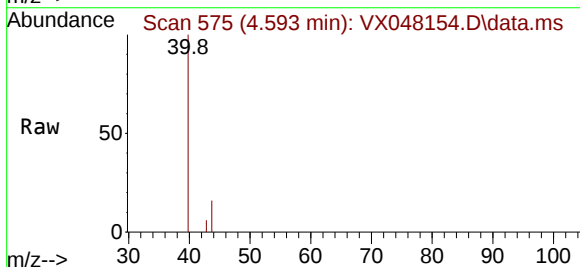
Acq: 14 Oct 2025 10:32

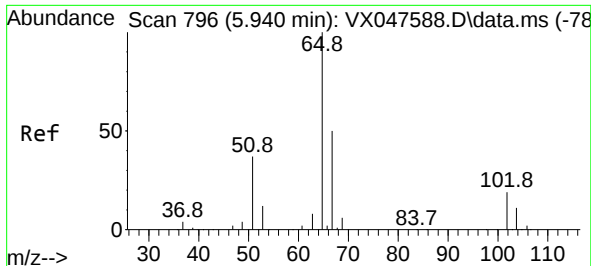
Tgt Ion: 43 Resp: 189

Ion Ratio Lower Upper

43 100

72 0.0 20.1 30.1#





#33

1,2-Dichloroethane-d4

Concen: 56.680 ug/l

RT: 5.934 min Scan# 796

Delta R.T. -0.006 min

Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

Instrument :

MSVOA_X

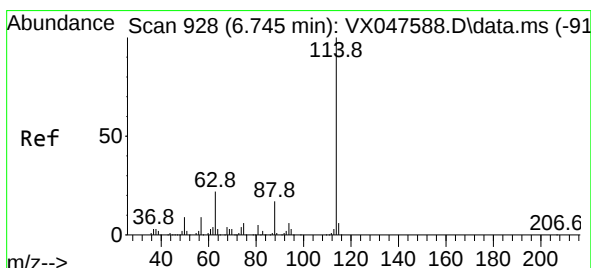
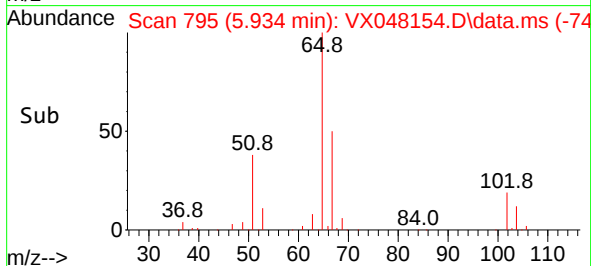
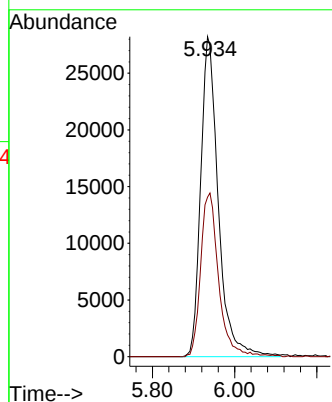
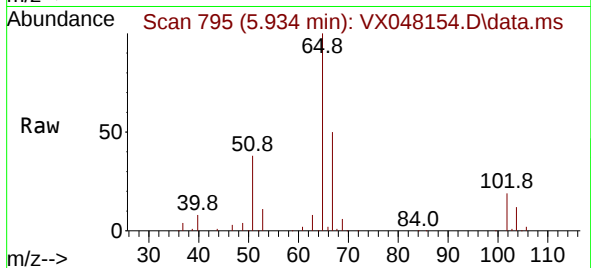
ClientSampleId :

Tgt Ion: 65 Resp: 83770

Ion Ratio Lower Upper

65 100

67 52.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.745 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

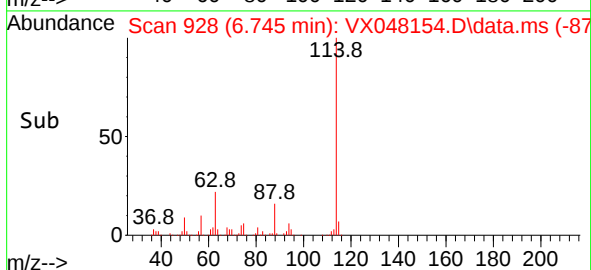
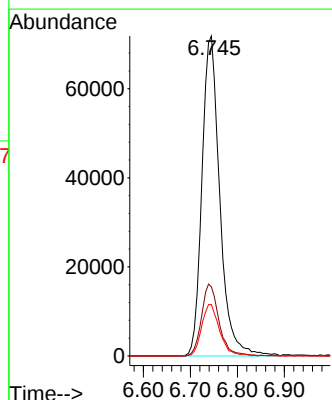
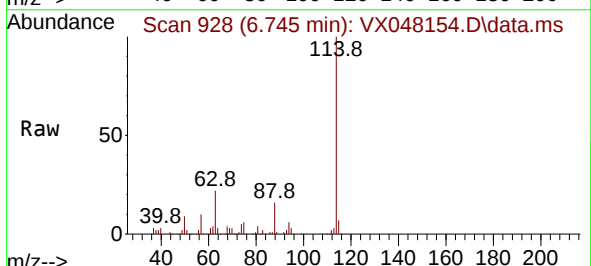
Tgt Ion: 114 Resp: 189331

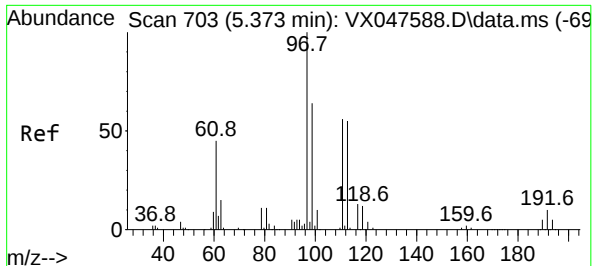
Ion Ratio Lower Upper

114 100

63 21.6 0.0 44.0

88 16.0 0.0 34.2

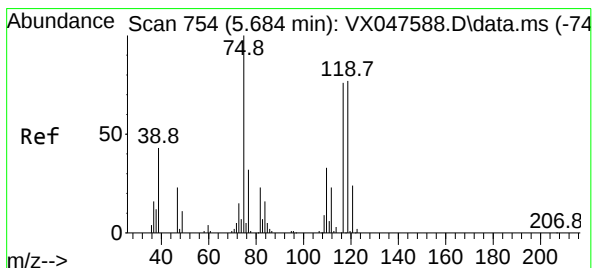
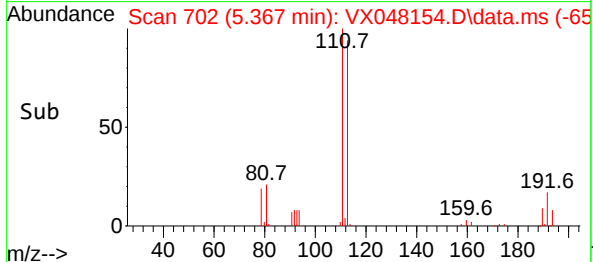
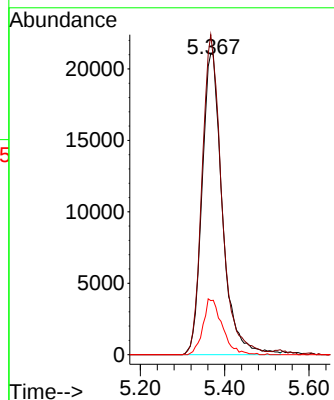
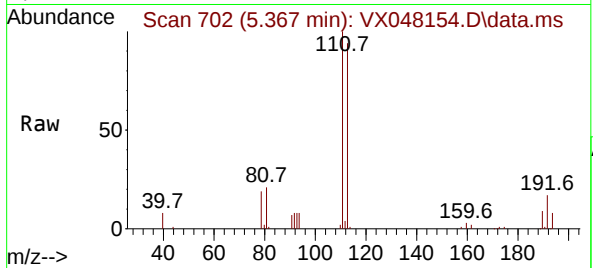




#35
Dibromofluoromethane
Concen: 55.581 ug/l
RT: 5.367 min Scan# 703
Delta R.T. -0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

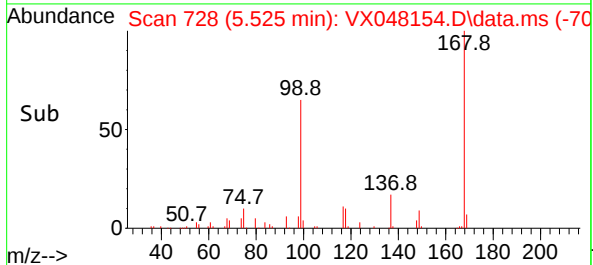
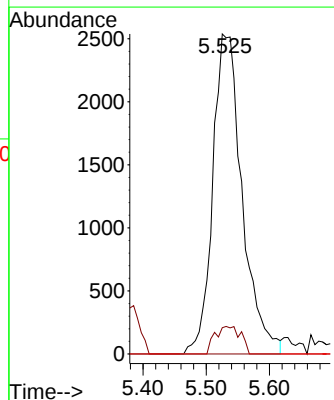
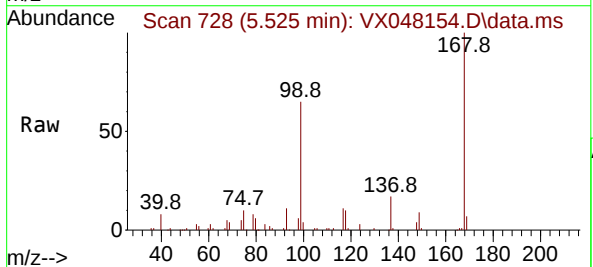
Instrument :
MSVOA_X
ClientSampleId :

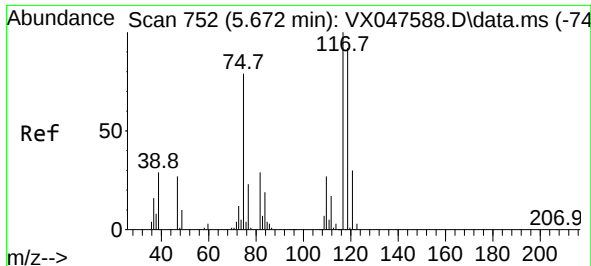
Tgt Ion:113 Resp: 70575
Ion Ratio Lower Upper
113 100
111 102.9 80.9 121.3
192 17.6 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.409 ug/l
RT: 5.525 min Scan# 728
Delta R.T. -0.159 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

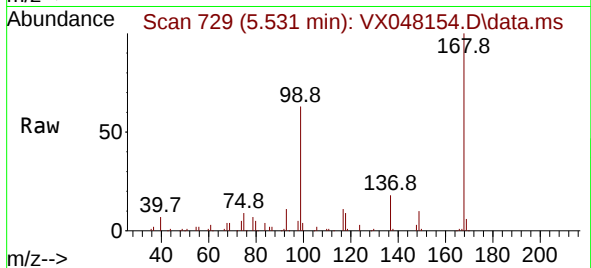
Tgt Ion: 75 Resp: 8181
Ion Ratio Lower Upper
75 100
110 7.5 16.7 50.1#
77 0.0 24.3 36.5#



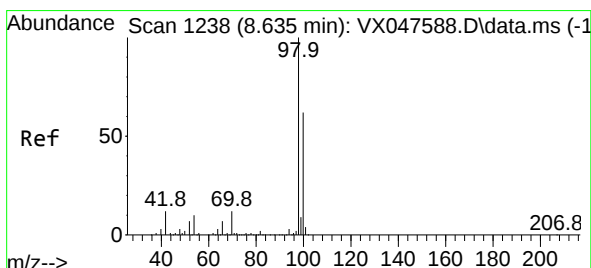
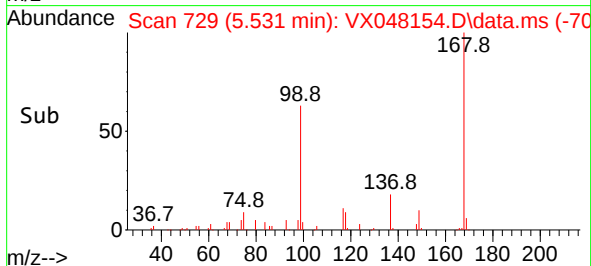
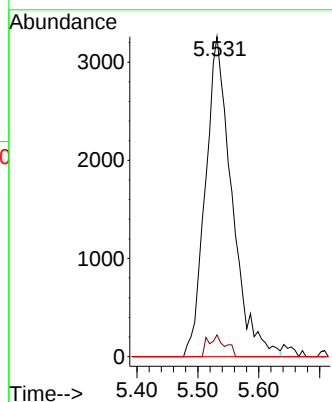


#38
Carbon Tetrachloride
Concen: 4.879 ug/l
RT: 5.531 min Scan# 71
Delta R.T. -0.140 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Instrument :
MSVOA_X
ClientSampleId :

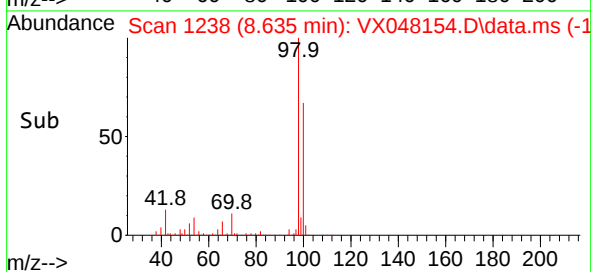
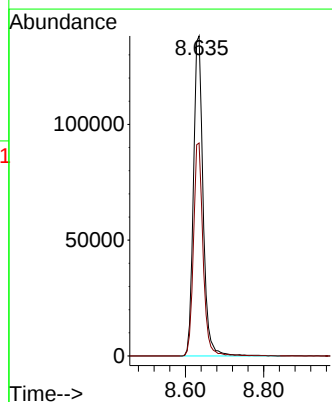
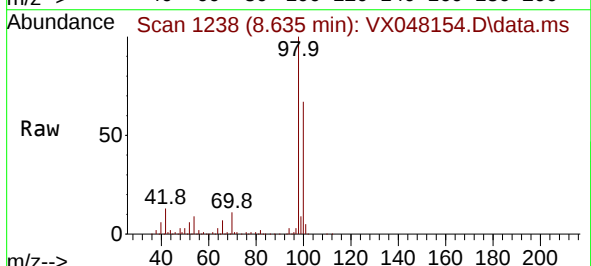


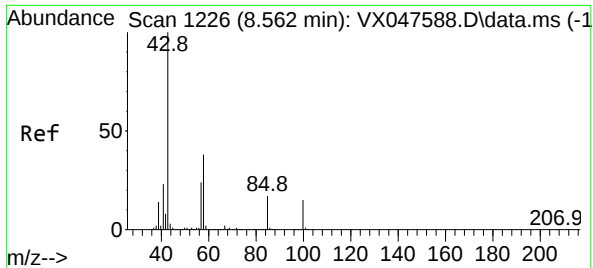
Tgt Ion:117 Resp: 9835
Ion Ratio Lower Upper
117 100
119 6.8 73.4 110.2#
121 0.0 23.8 35.6#



#50
Toluene-d8
Concen: 53.786 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 98 Resp: 236315
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 0.326 ug/l

RT: 8.561 min Scan# 1174

Delta R.T. -0.000 min

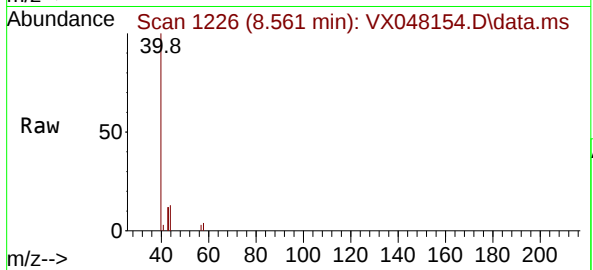
Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

Instrument :

MSVOA_X

ClientSampleId :

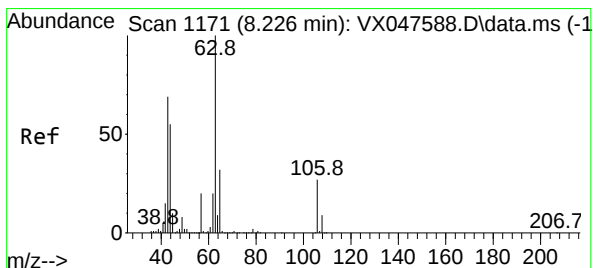
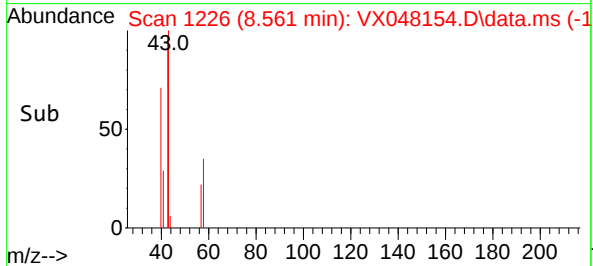
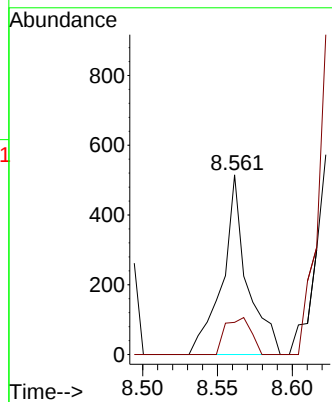


Tgt Ion: 43 Resp: 589

Ion Ratio Lower Upper

43 100

58 21.6 30.3 45.5#



#58

2-Chloroethyl Vinyl ether

Concen: 7.940 ug/l

RT: 8.244 min Scan# 1174

Delta R.T. 0.018 min

Lab File: VX048154.D

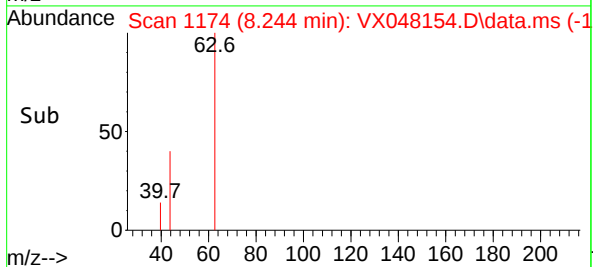
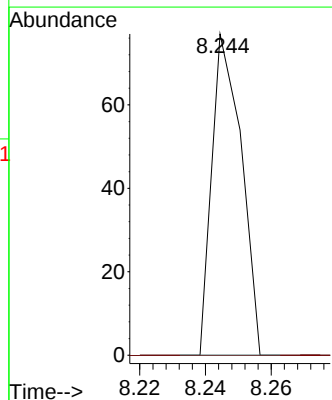
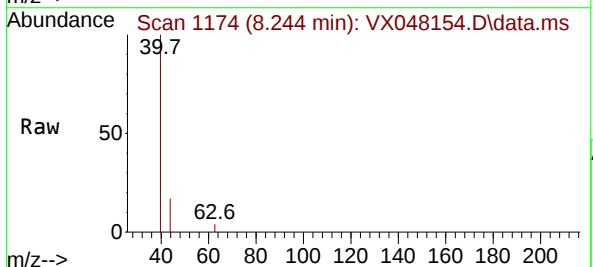
Acq: 14 Oct 2025 10:32

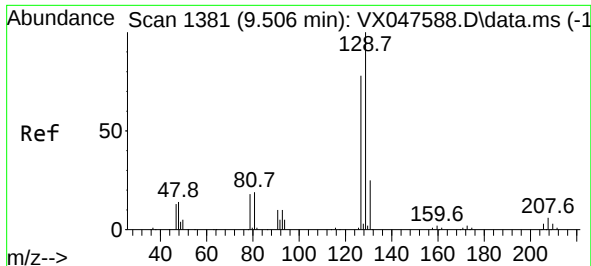
Tgt Ion: 63 Resp: 48

Ion Ratio Lower Upper

63 100

106 0.0 21.9 32.9#

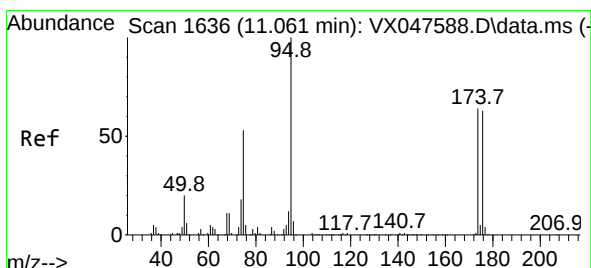
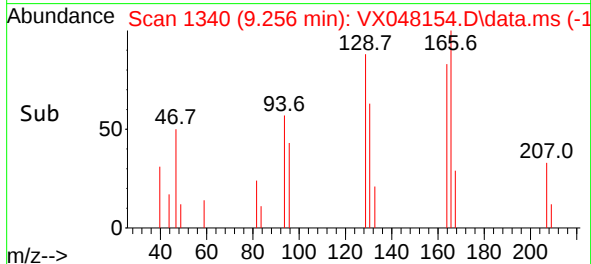
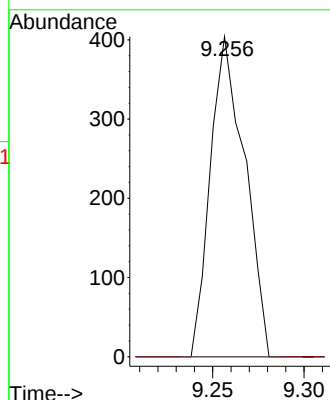
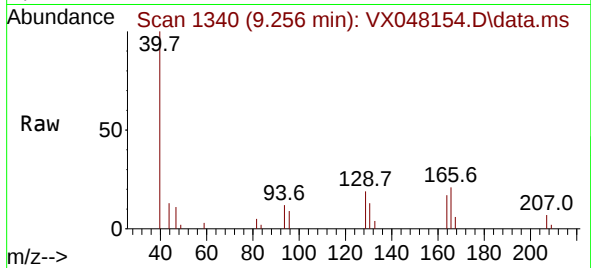




#60
Dibromochloromethane
Concen: 0.344 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

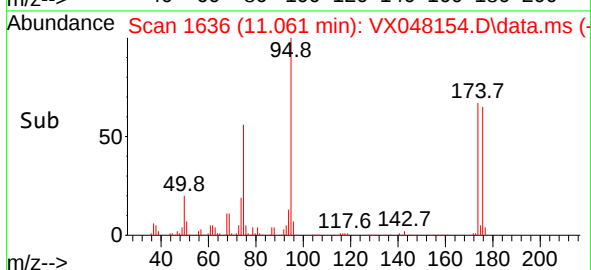
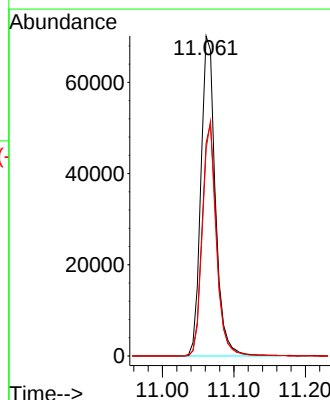
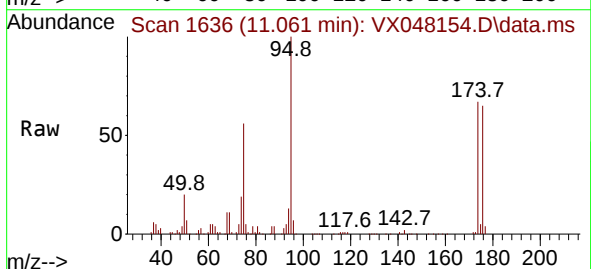
Instrument :
MSVOA_X
ClientSampleId :

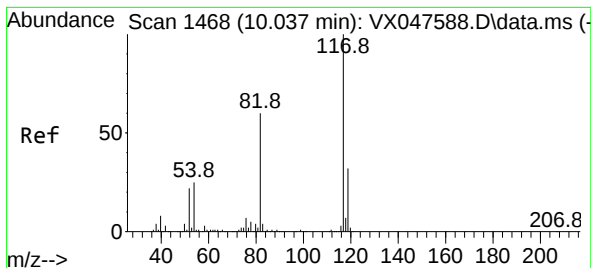
Tgt Ion:129 Resp: 530
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 59.020 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 95 Resp: 98413
Ion Ratio Lower Upper
95 100
174 73.2 0.0 141.6
176 70.2 0.0 138.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.037 min Scan# 1468

Delta R.T. -0.000 min

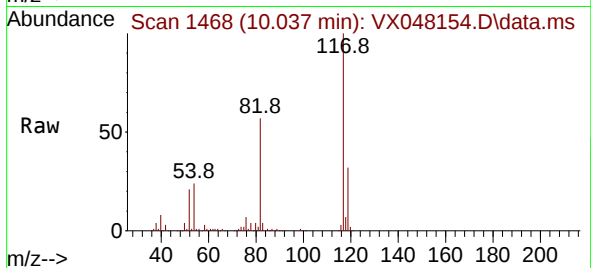
Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

Instrument :

MSVOA_X

ClientSampleId :



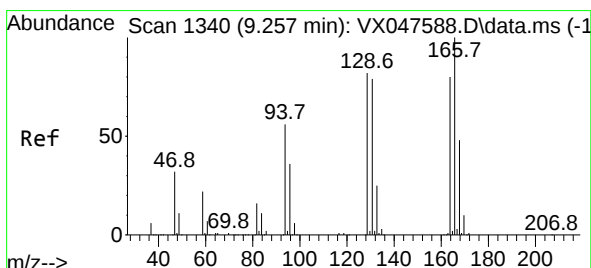
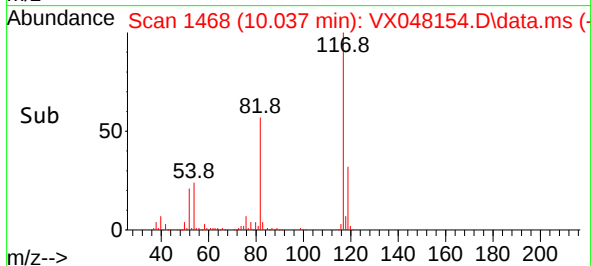
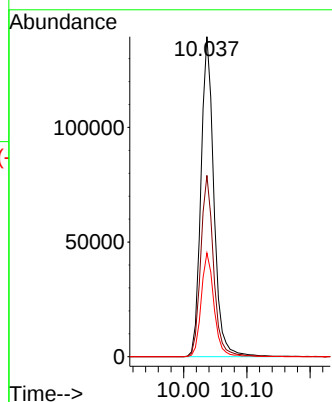
Tgt Ion:117 Resp: 199229

Ion Ratio Lower Upper

117 100

82 56.6 47.8 71.6

119 32.4 25.2 37.8



#64

Tetrachloroethene

Concen: 0.407 ug/l

RT: 9.256 min Scan# 1340

Delta R.T. -0.000 min

Lab File: VX048154.D

Acq: 14 Oct 2025 10:32

Tgt Ion:164 Resp: 528

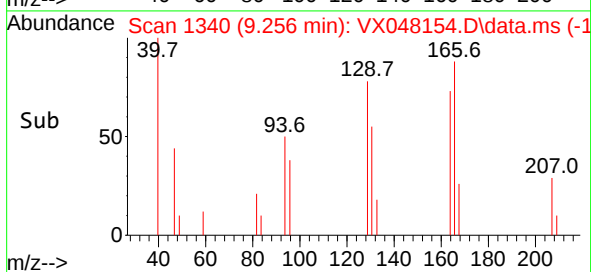
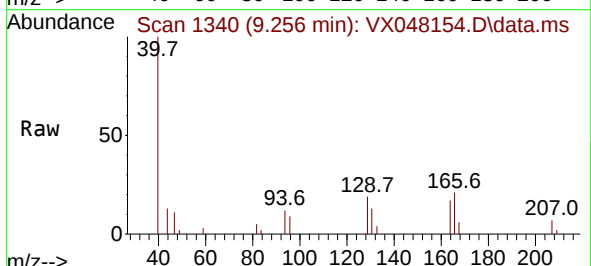
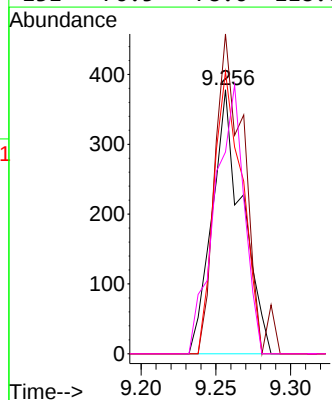
Ion Ratio Lower Upper

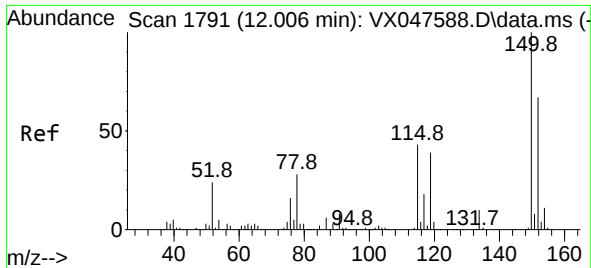
164 100

166 121.2 100.2 150.2

129 106.9 81.8 122.6

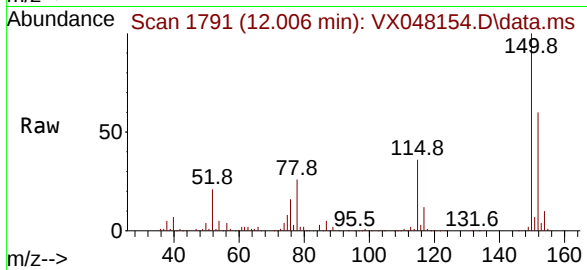
131 76.5 78.6 118.0#



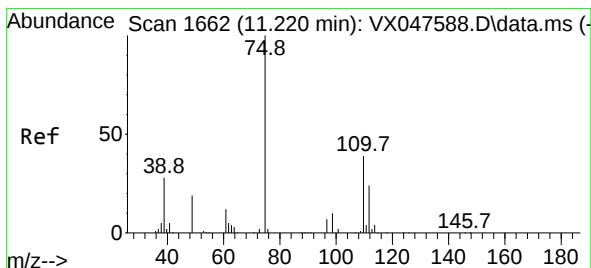
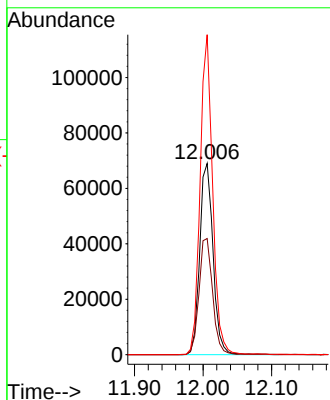
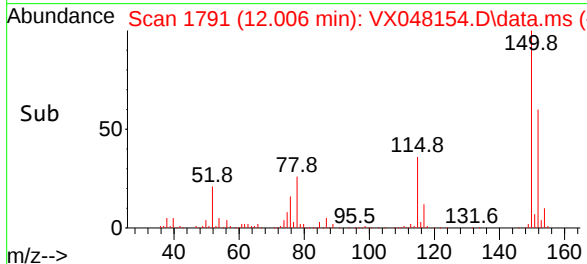


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Instrument :
MSVOA_X
ClientSampleId :

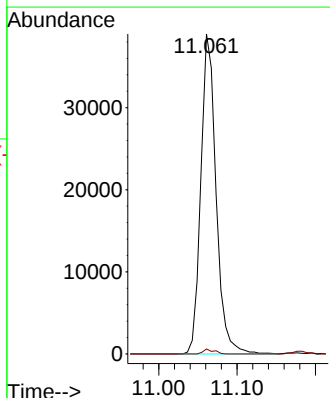
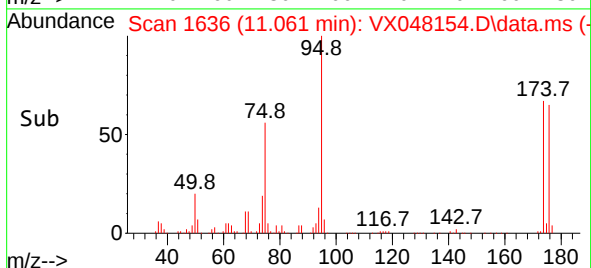
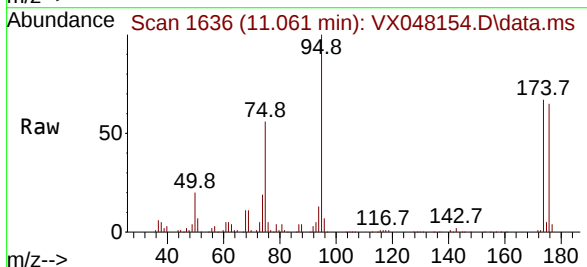


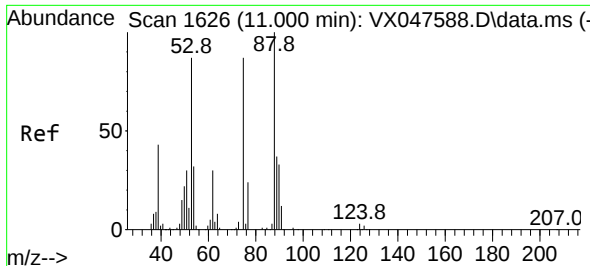
Tgt Ion:152 Resp: 93640
Ion Ratio Lower Upper
152 100
115 62.1 44.9 134.5
150 156.4 0.0 352.0



#76
1,2,3-Trichloropropane
Concen: 27.767 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 75 Resp: 52644
Ion Ratio Lower Upper
75 100
77 1.1 18.8 56.4#

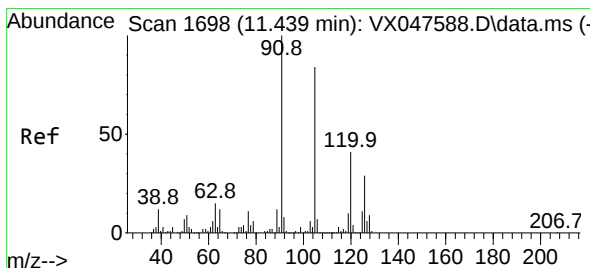
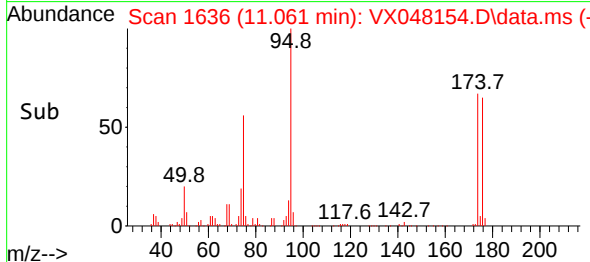
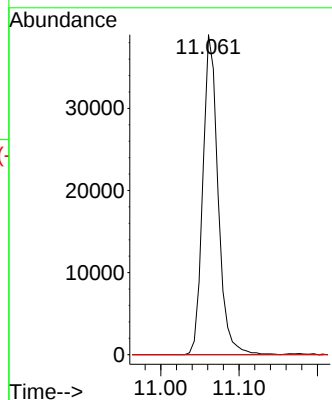
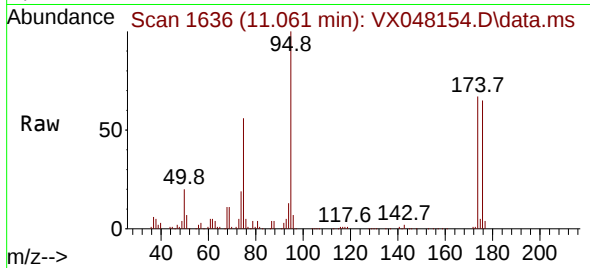




#81
trans-1,4-Dichloro-2-butene
Concen: 70.810 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

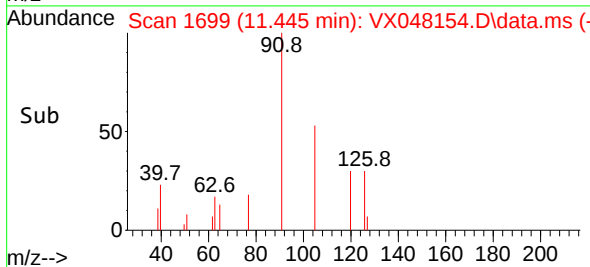
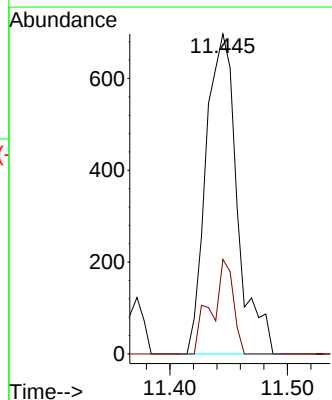
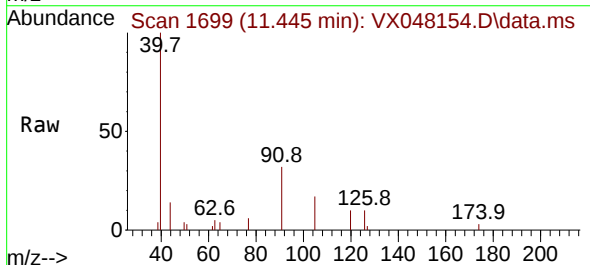
Instrument :
MSVOA_X
ClientSampleId :

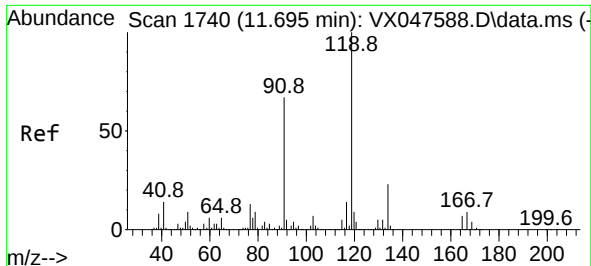
Tgt Ion: 75 Resp: 52644
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#



#82
4-Chlorotoluene
Concen: 0.212 ug/l
RT: 11.445 min Scan# 1699
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion: 91 Resp: 1291
Ion Ratio Lower Upper
91 100
126 20.4 14.2 42.6

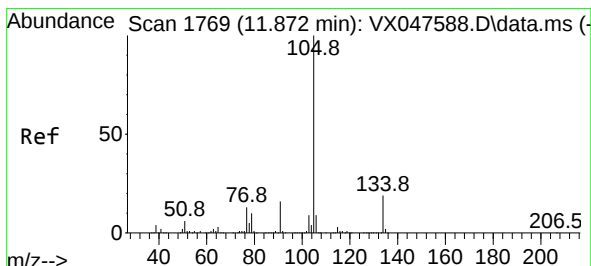
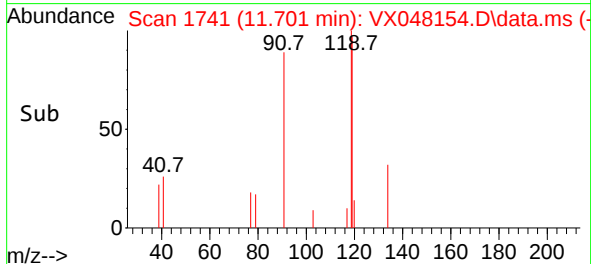
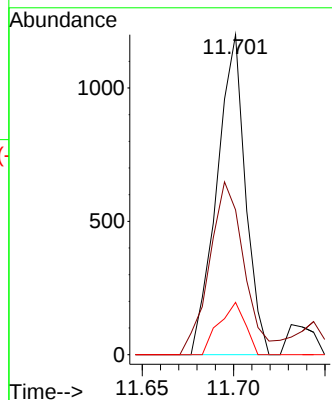
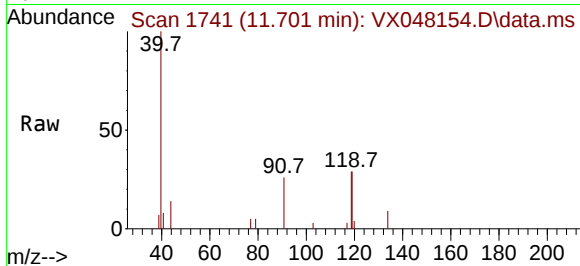




#83
tert-Butylbenzene
Concen: 0.218 ug/l
RT: 11.701 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

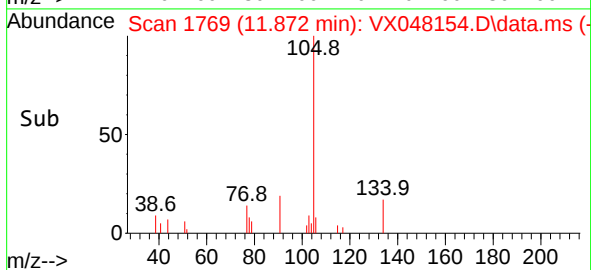
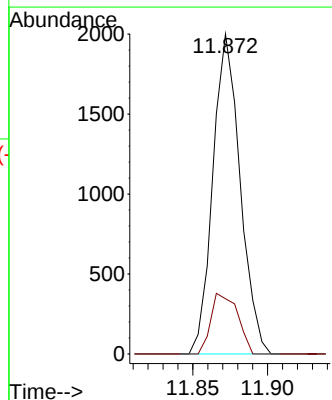
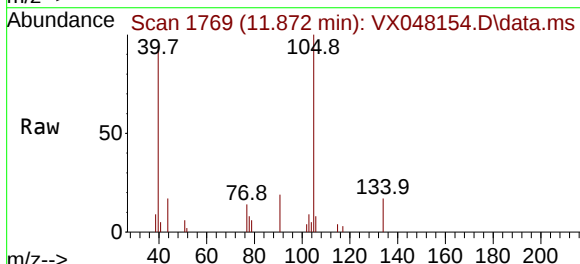
Instrument :
MSVOA_X
ClientSampleId :

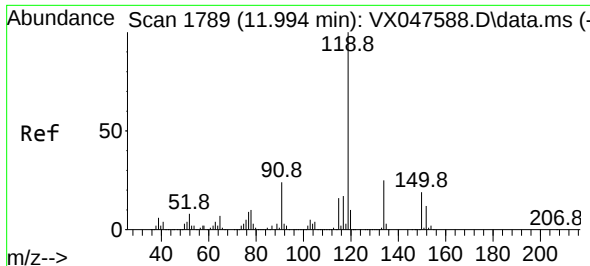
Tgt Ion:119 Resp: 1305
Ion Ratio Lower Upper
119 100
91 66.6 29.6 88.8
134 15.0 11.0 33.0



#85
sec-Butylbenzene
Concen: 0.356 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion:105 Resp: 2534
Ion Ratio Lower Upper
105 100
134 18.5 9.8 29.5

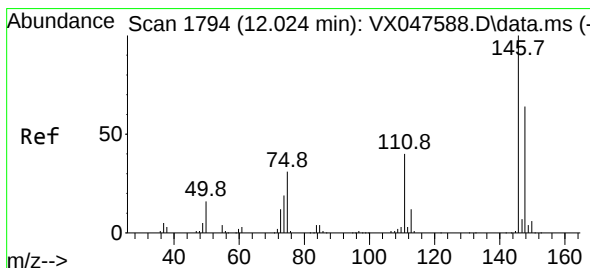
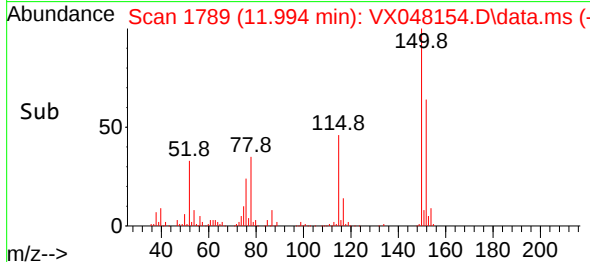
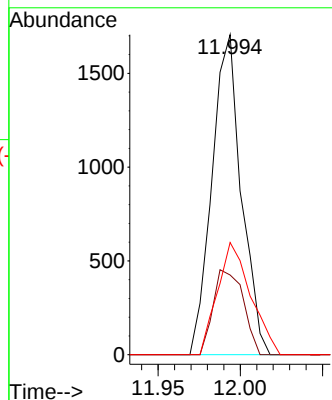
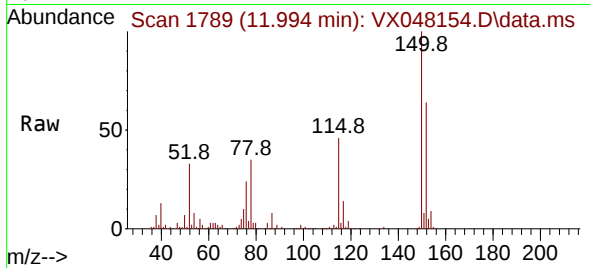




#86
p-Isopropyltoluene
Concen: 0.352 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

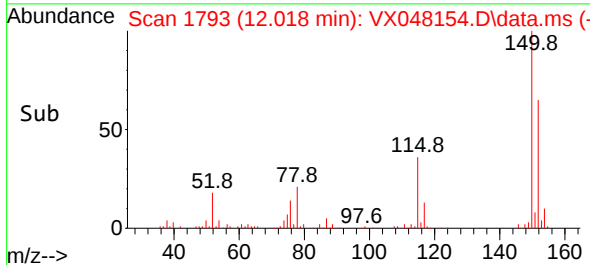
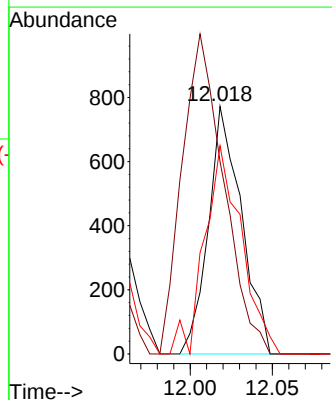
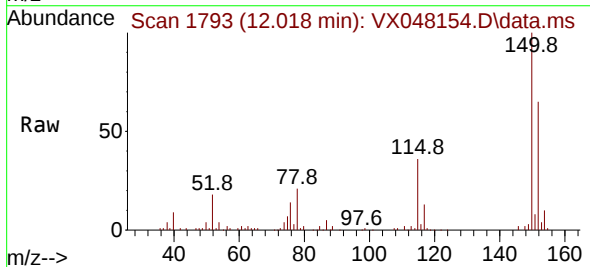
Instrument :
MSVOA_X
ClientSampleId :

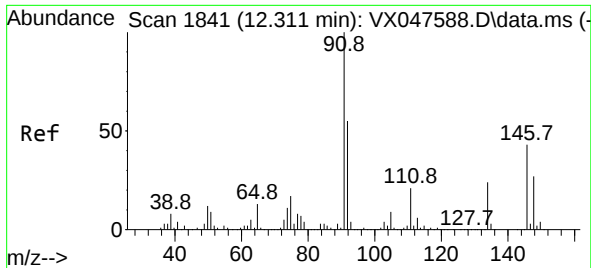
Tgt Ion:119 Resp: 2122
Ion Ratio Lower Upper
119 100
134 27.0 12.6 37.8
91 39.6 12.6 37.6#



#88
1,4-Dichlorobenzene
Concen: 0.324 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. -0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion:146 Resp: 1082
Ion Ratio Lower Upper
146 100
111 162.0 20.8 62.4#
148 93.6 31.7 95.1

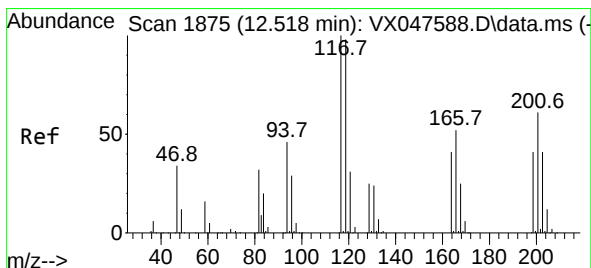
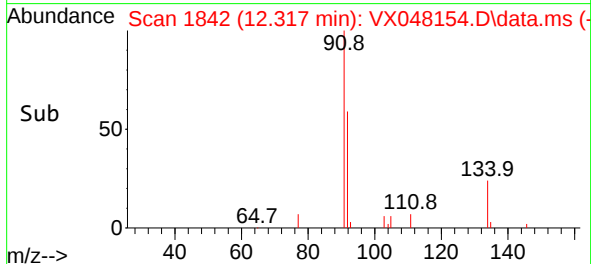
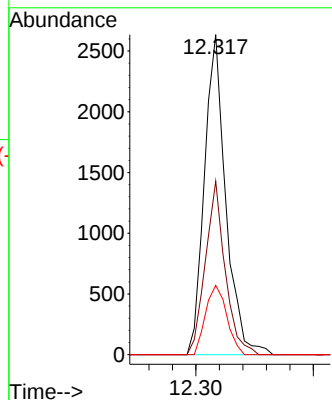
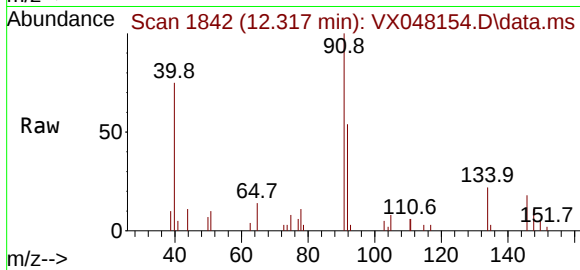




#89
n-Butylbenzene
Concen: 0.597 ug/l
RT: 12.317 min Scan# 1841
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

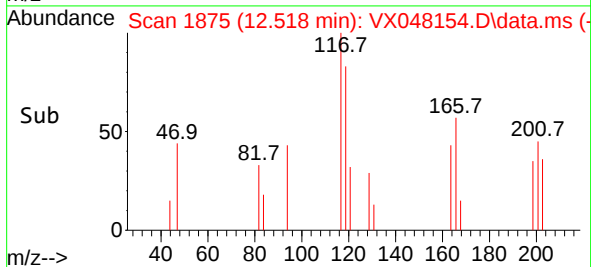
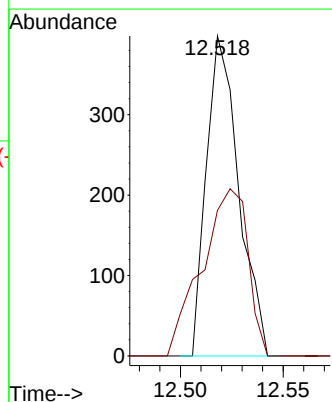
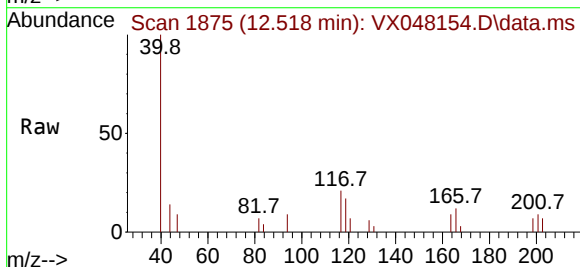
Instrument :
MSVOA_X
ClientSampleId :

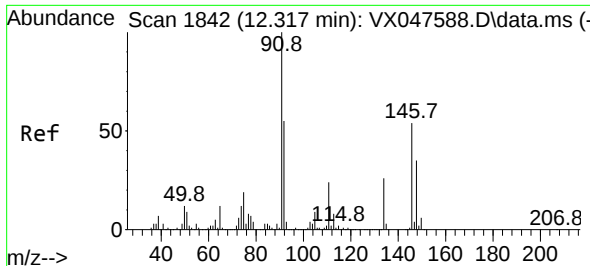
Tgt Ion: 91 Resp: 3324
Ion Ratio Lower Upper
91 100
92 50.2 27.6 82.7
134 21.5 12.6 37.8



#90
Hexachloroethane
Concen: 0.412 ug/l
RT: 12.518 min Scan# 1875
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

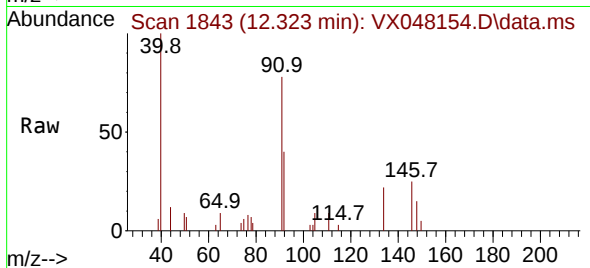
Tgt Ion: 117 Resp: 435
Ion Ratio Lower Upper
117 100
201 74.5 34.2 102.5



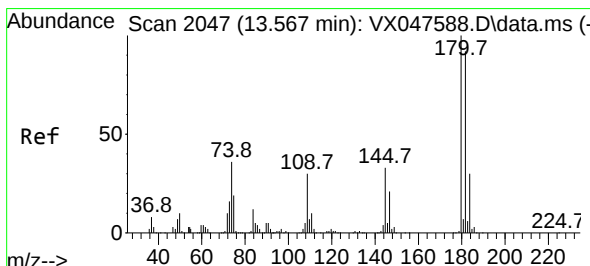
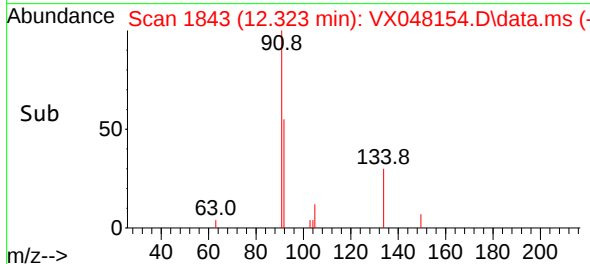
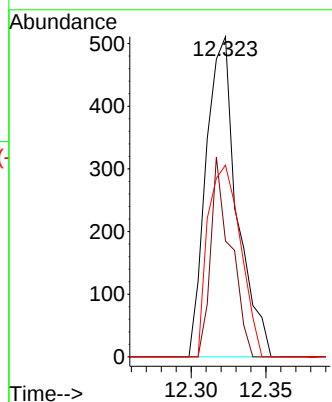


#91
1,2-Dichlorobenzene
Concen: 0.237 ug/l
RT: 12.323 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Instrument :
MSVOA_X
ClientSampleId :

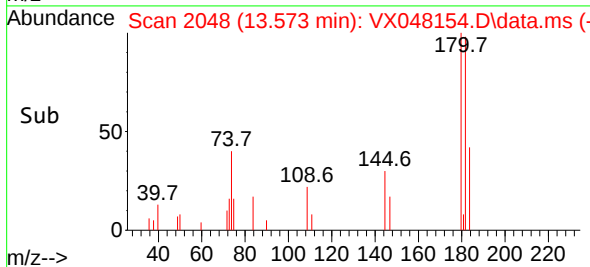
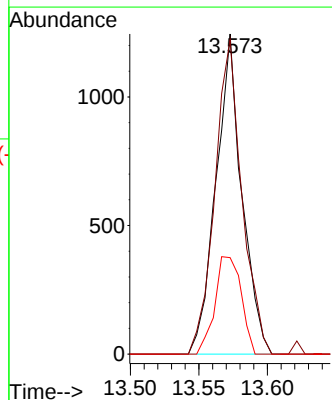
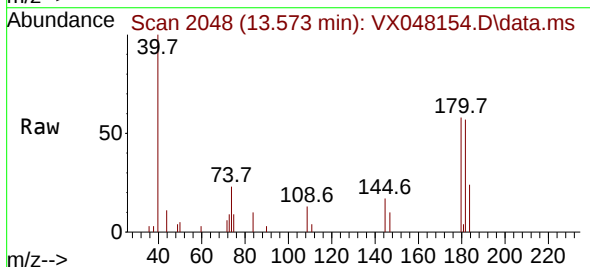


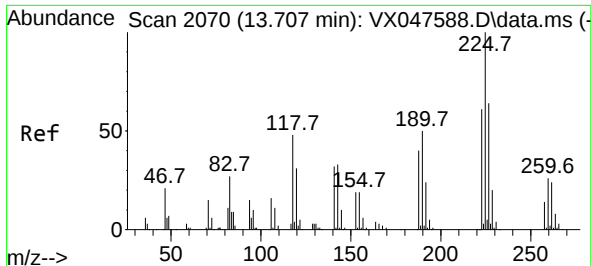
Tgt Ion:146 Resp: 735
Ion Ratio Lower Upper
146 100
111 40.3 22.2 66.6
148 63.1 31.8 95.4



#93
1,2,4-Trichlorobenzene
Concen: 0.811 ug/l
RT: 13.573 min Scan# 2048
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

Tgt Ion:180 Resp: 1636
Ion Ratio Lower Upper
180 100
182 102.8 46.6 139.8
145 30.8 16.4 49.1

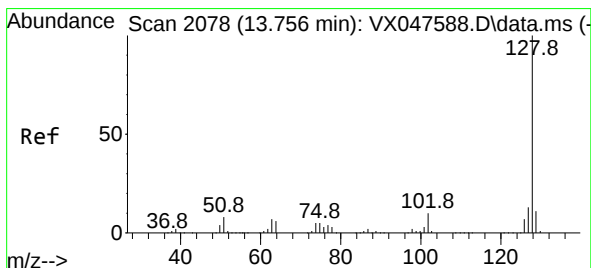
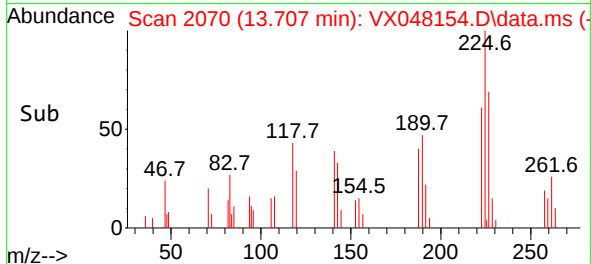
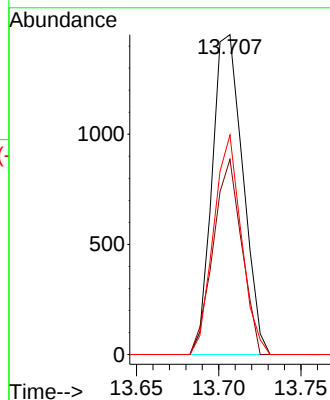
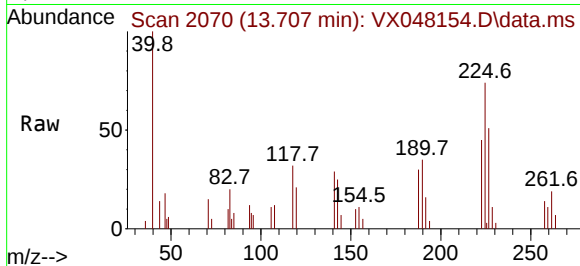




#94
Hexachlorobutadiene
Concen: 2.755 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. -0.000 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

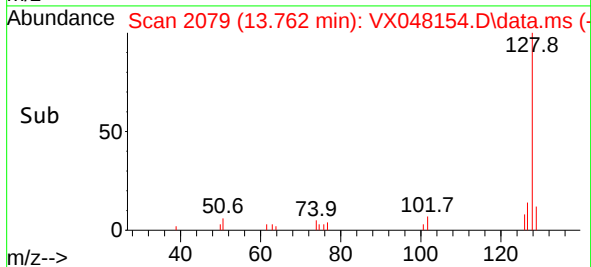
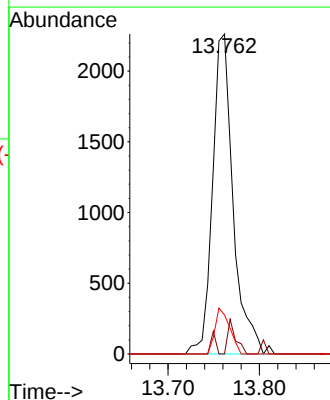
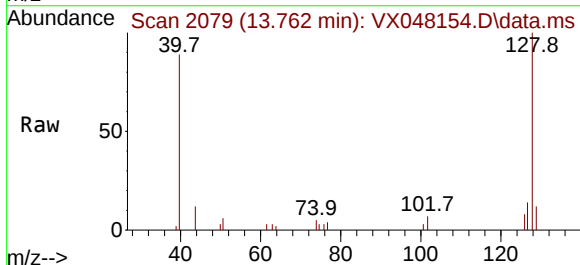
Instrument :
MSVOA_X
ClientSampleId :

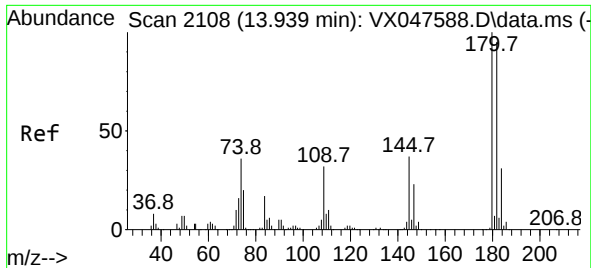
Tgt Ion	Ratio	Lower	Upper
225	100		
223	56.7	31.7	95.1
227	62.2	32.0	96.0



#95
Naphthalene
Concen: 0.576 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX048154.D
Acq: 14 Oct 2025 10:32

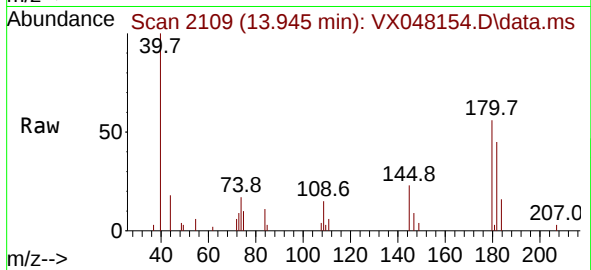
Tgt Ion	Ratio	Lower	Upper
128	100		
127	4.2	10.2	15.2#
129	10.2	8.8	13.2





#96
 1,2,3-Trichlorobenzene
 Concen: 0.912 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX048154.D
 Acq: 14 Oct 2025 10:32

Instrument :
 MSVOA_X
 ClientSampleId :



Tgt Ion:	180	Resp:	1710
Ion Ratio	Lower	Upper	
180	100		
182	92.0	47.6	142.8
145	35.7	17.9	53.7

