

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX102125\
 Data File : VX048253.D
 Acq On : 21 Oct 2025 09:12
 Operator : JC/MD
 Sample : VX1021MBL01
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA_X/MEOH
 ALS Vial : 3 Sample Multiplier: 1

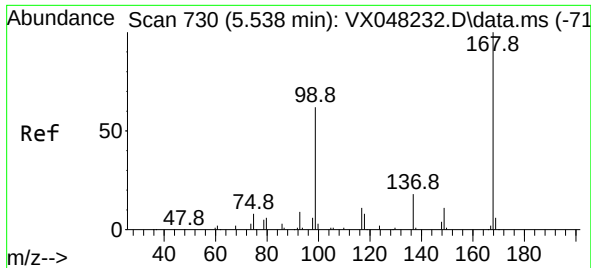
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1021MBL01

Quant Time: Oct 24 04:22:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X102025W.M
 Quant Title : SW846 8260
 QLast Update : Mon Oct 20 14:13:59 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.538	168	91961	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	178643	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	183312	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	90101	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.934	65	62909	48.791	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.580%		
35) Dibromofluoromethane	5.367	113	54167	44.414	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	88.820%		
50) Toluene-d8	8.635	98	188946	44.200	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	88.400%#		
62) 4-Bromofluorobenzene	11.061	95	80532	49.520	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.040%		
Target Compounds						Qvalue
5) Bromomethane	1.630	94	331	0.597	ug/l #	77
10) Methyl Iodide	2.465	142	1168	0.936	ug/l #	74
11) Tert butyl alcohol	2.947	59	533	4.164	ug/l #	72
16) Acetone	2.380	43	894	2.021	ug/l #	70
17) Carbon Disulfide	2.514	76	1608	0.528	ug/l	98
31) Cyclohexane	5.525	56	1789	1.118	ug/l #	22
36) 1,1-Dichloropropene	5.538	75	7210	4.159	ug/l #	47
38) Carbon Tetrachloride	5.531	117	9203	4.303	ug/l #	17
39) Methylcyclohexane	7.366	83	448	0.219	ug/l #	60
51) 4-Methyl-2-Pentanone	8.549	43	304	0.223	ug/l #	38
64) Tetrachloroethene	9.262	164	292	0.213	ug/l #	81
76) 1,2,3-Trichloropropane	11.061	75	40660	27.828	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	40660	67.703	ug/l #	10
83) tert-Butylbenzene	11.695	119	1300	0.232	ug/l #	91
85) sec-Butylbenzene	11.872	105	2655	0.394	ug/l	97
86) p-Isopropyltoluene	11.994	119	2321	0.399	ug/l	91
87) 1,3-Dichlorobenzene	11.957	146	640	0.206	ug/l	95
89) n-Butylbenzene	12.317	91	3355	0.633	ug/l	95
90) Hexachloroethane	12.518	117	424	0.369	ug/l	73
93) 1,2,4-Trichlorobenzene	13.573	180	1473	0.746	ug/l	90
94) Hexachlorobutadiene	13.707	225	2172	2.997	ug/l	95
95) Naphthalene	13.762	128	2991	0.572	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	1616	0.892	ug/l	95

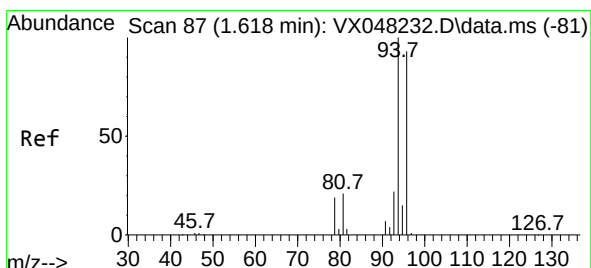
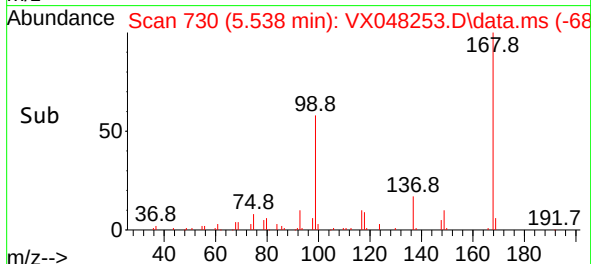
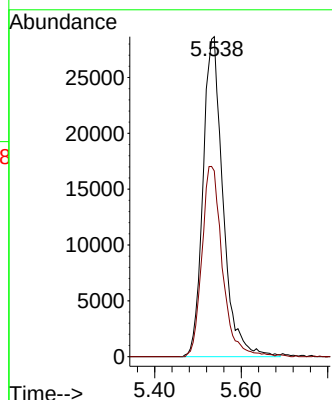
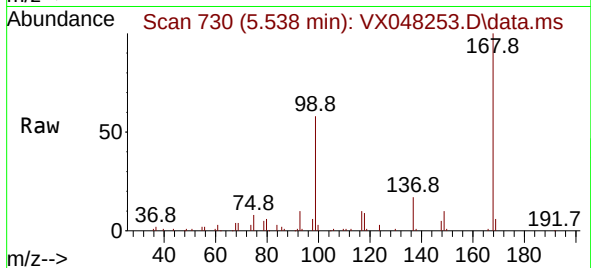
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

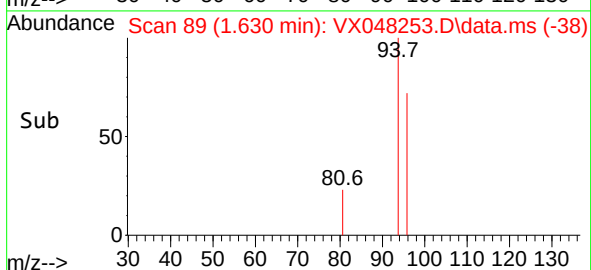
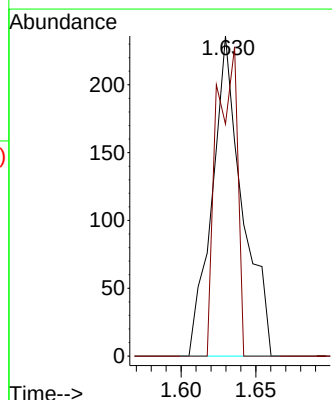
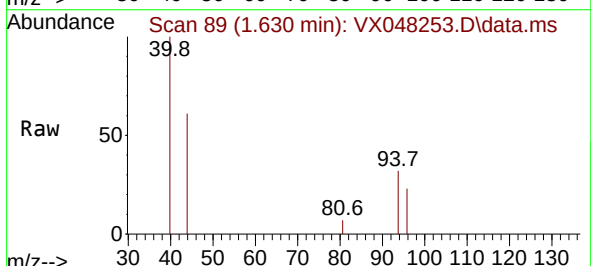
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

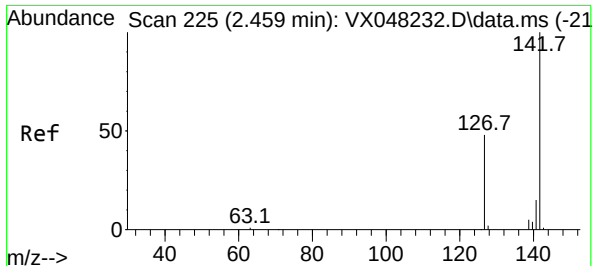
Tgt Ion:168 Resp: 91961
Ion Ratio Lower Upper
168 100
99 58.0 46.4 69.6



#5
Bromomethane
Concen: 0.597 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 94 Resp: 331
Ion Ratio Lower Upper
94 100
96 72.5 76.0 114.0#

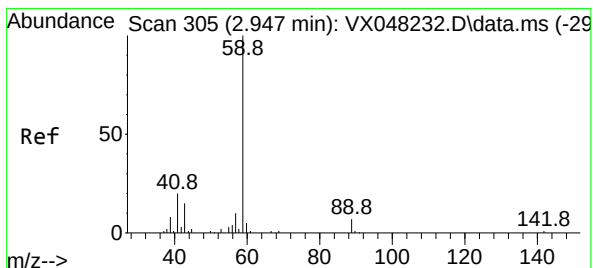
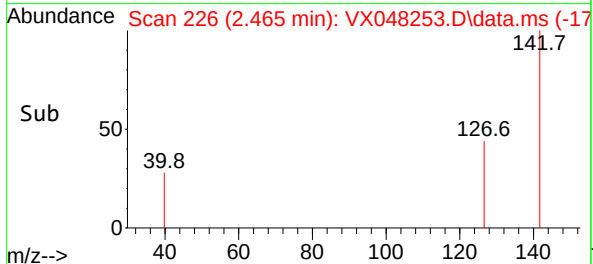
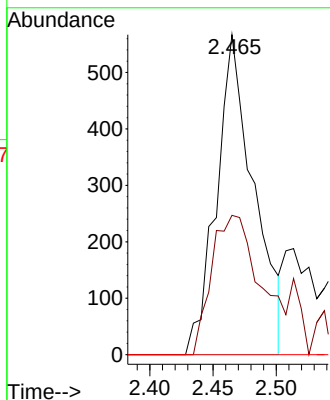
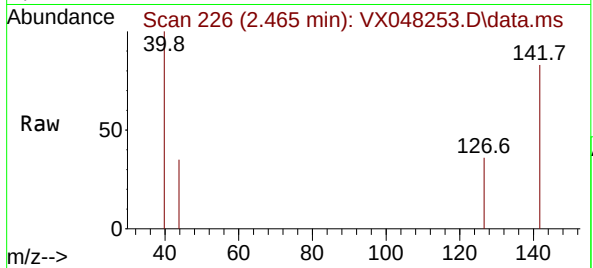




#10
Methyl Iodide
Concen: 0.936 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

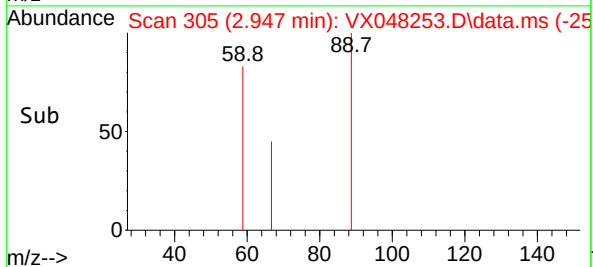
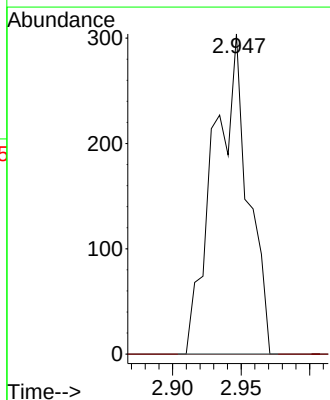
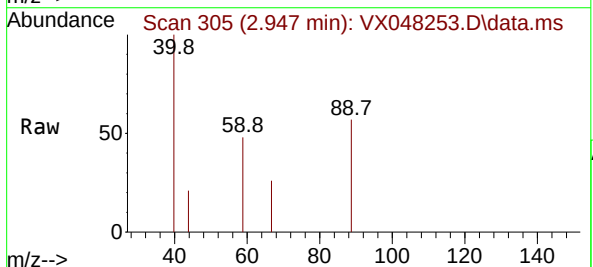
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

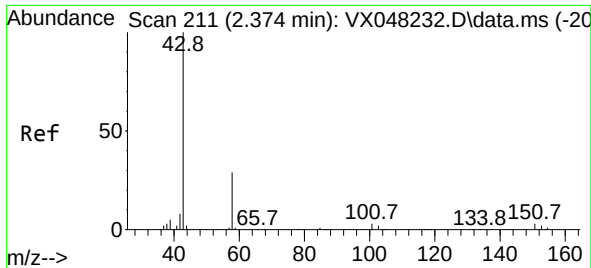
Tgt Ion:142 Resp: 1168
Ion Ratio Lower Upper
142 100
127 64.2 38.5 57.7#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 4.164 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 59 Resp: 533
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

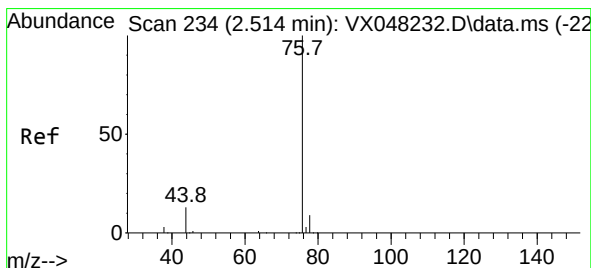
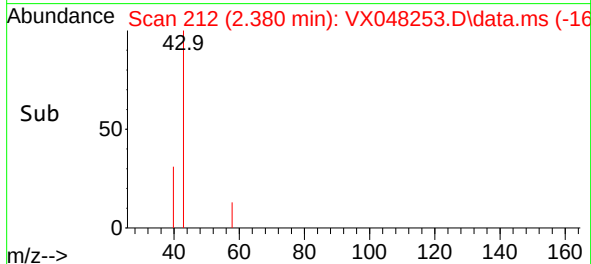
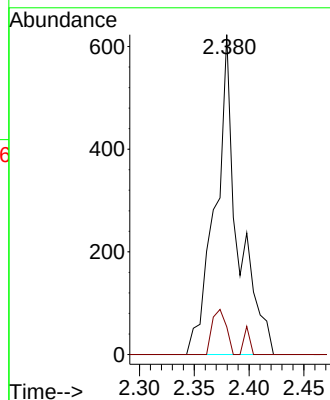
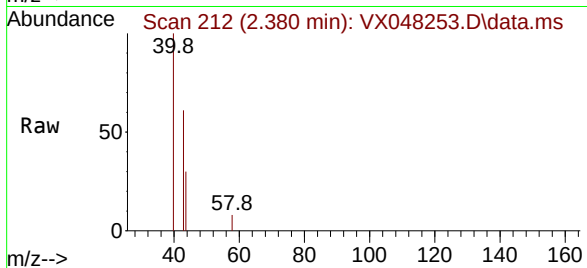




#16
Acetone
Concen: 2.021 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

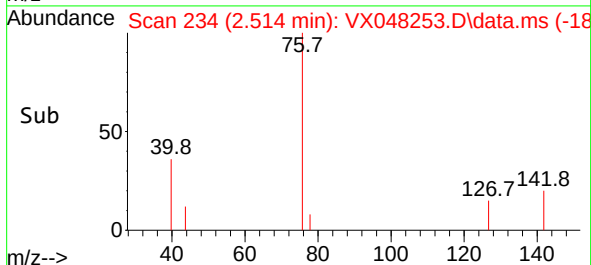
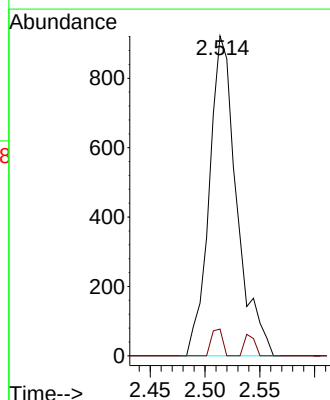
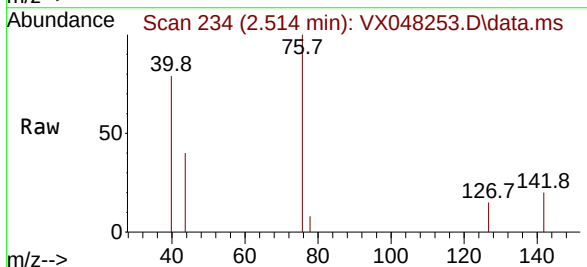
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

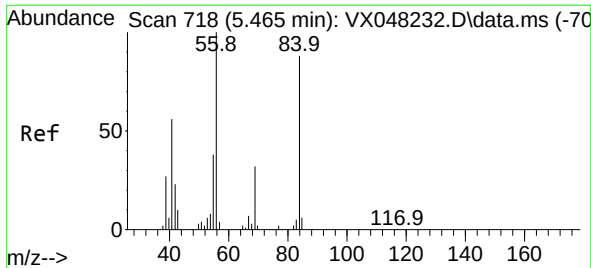
Tgt Ion: 43 Resp: 894
Ion Ratio Lower Upper
43 100
58 13.4 23.4 35.2#



#17
Carbon Disulfide
Concen: 0.528 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 76 Resp: 1608
Ion Ratio Lower Upper
76 100
78 8.4 7.1 10.7

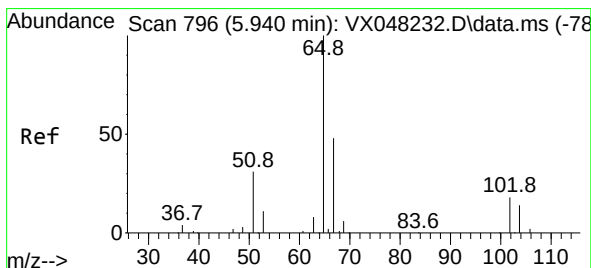
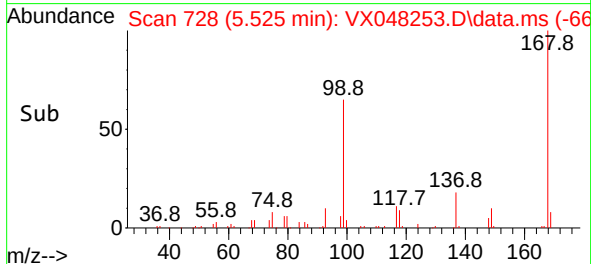
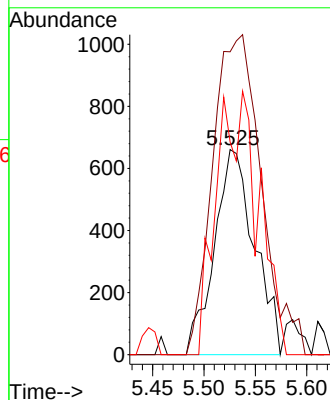
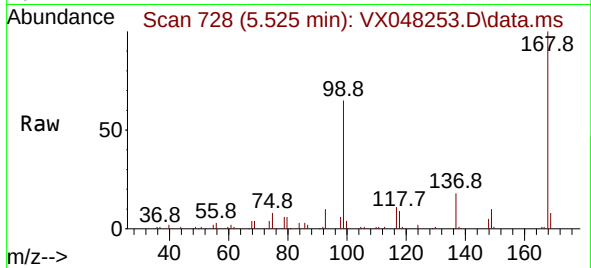




#31
Cyclohexane
Concen: 1.118 ug/l
RT: 5.525 min Scan# 718
Delta R.T. 0.067 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

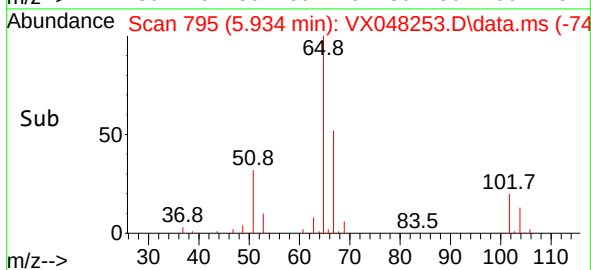
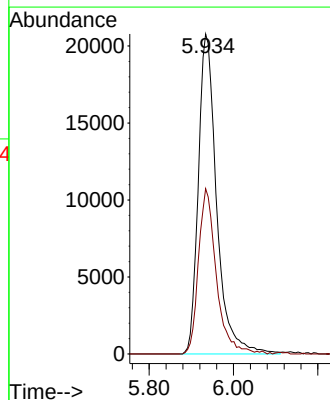
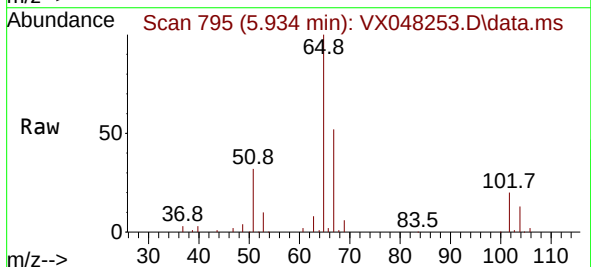
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

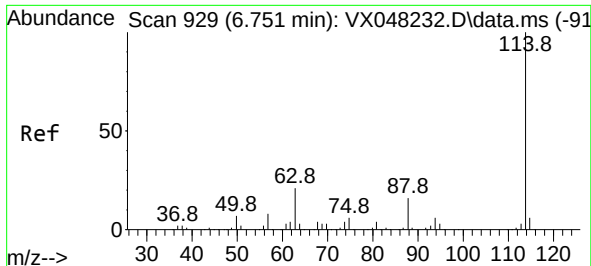
Tgt Ion: 56 Resp: 1789
Ion Ratio Lower Upper
56 100
69 147.7 23.0 34.6#
84 103.6 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 48.791 ug/l
RT: 5.934 min Scan# 795
Delta R.T. -0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 65 Resp: 62909
Ion Ratio Lower Upper
65 100
67 50.2 0.0 105.0

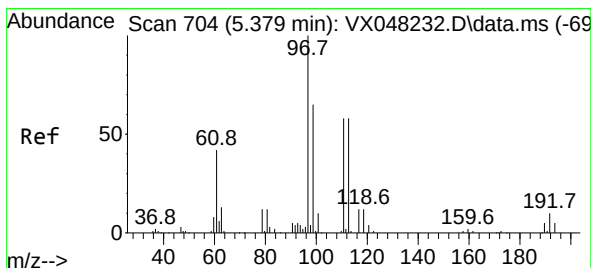
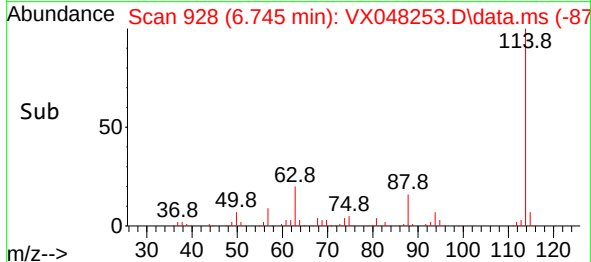
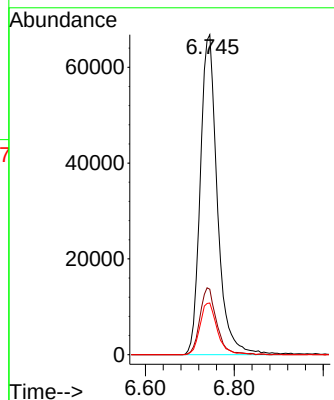
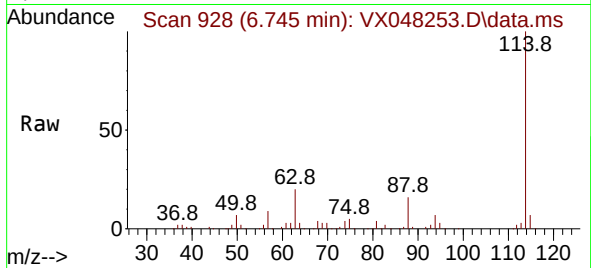




#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.745 min Scan# 91
 Delta R.T. -0.000 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

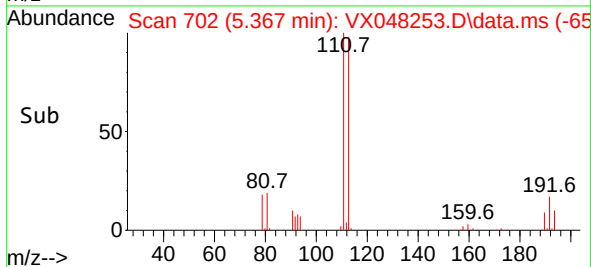
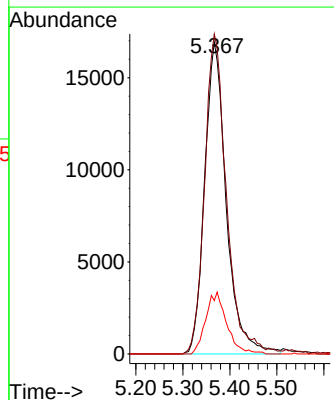
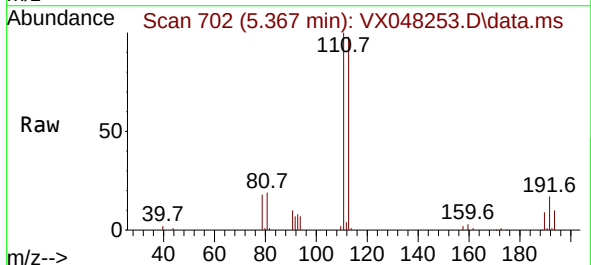
Instrument :
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 ClientSampleId :
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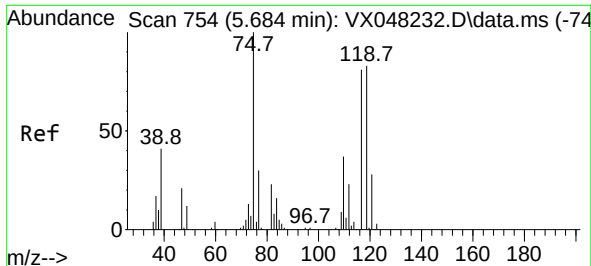
Tgt Ion:114 Resp: 178643
 Ion Ratio Lower Upper
 114 100
 63 20.4 0.0 43.2
 88 16.2 0.0 33.6



#35
 Dibromofluoromethane
 Concen: 44.414 ug/l
 RT: 5.367 min Scan# 702
 Delta R.T. -0.006 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

Tgt Ion:113 Resp: 54167
 Ion Ratio Lower Upper
 113 100
 111 102.6 82.2 123.4
 192 19.3 15.1 22.7





#36

1,1-Dichloropropene

Concen: 4.159 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX048253.D

Acq: 21 Oct 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

VX1021MBL01

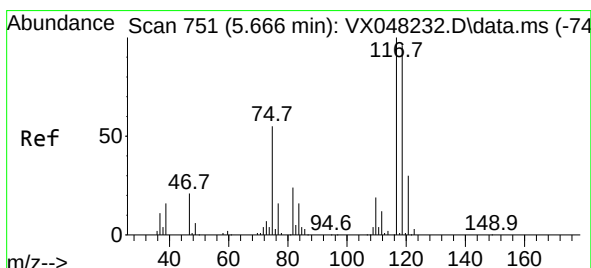
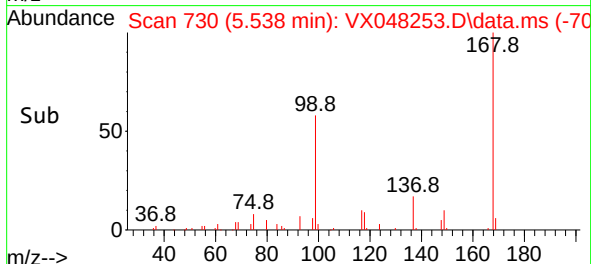
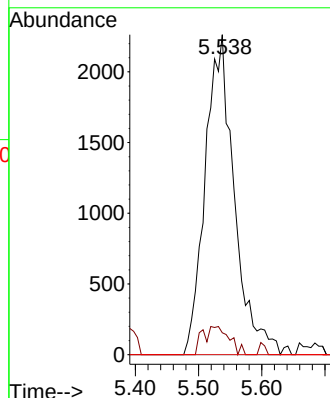
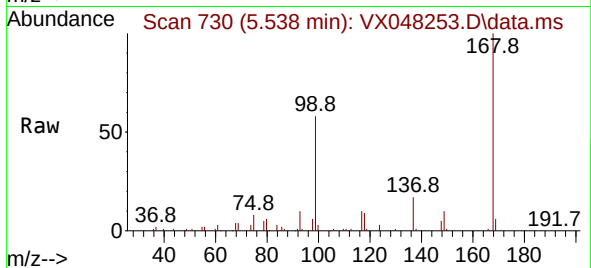
Tgt Ion: 75 Resp: 7210

Ion Ratio Lower Upper

75 100

110 6.0 17.7 53.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 4.303 ug/l

RT: 5.531 min Scan# 729

Delta R.T. -0.134 min

Lab File: VX048253.D

Acq: 21 Oct 2025 09:12

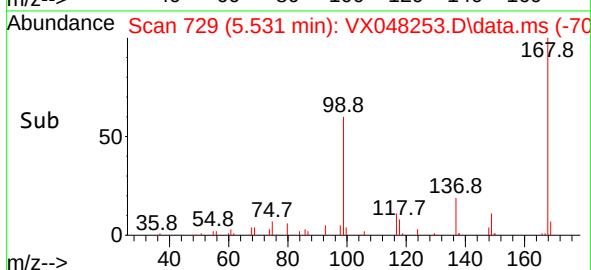
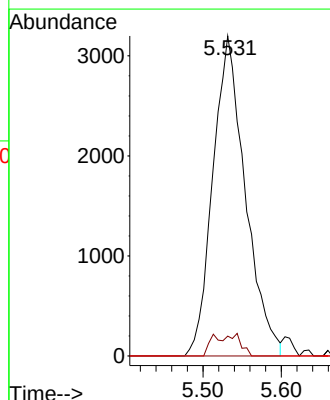
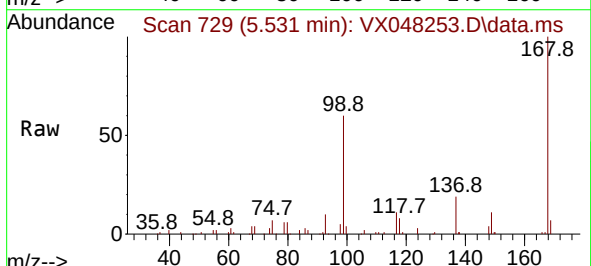
Tgt Ion: 117 Resp: 9203

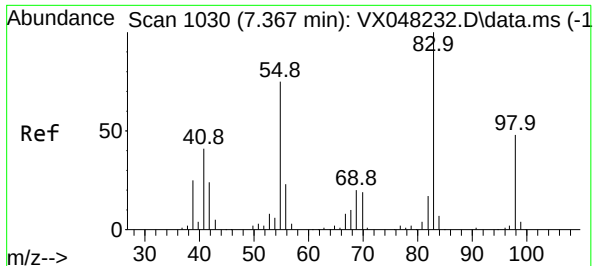
Ion Ratio Lower Upper

117 100

119 6.2 77.2 115.8#

121 0.0 24.8 37.2#

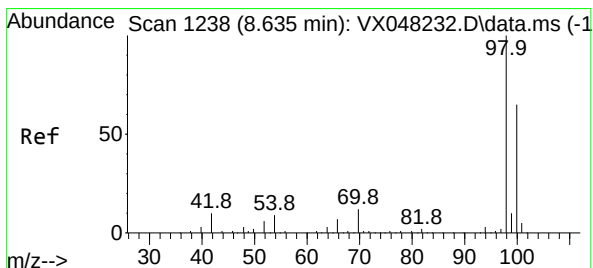
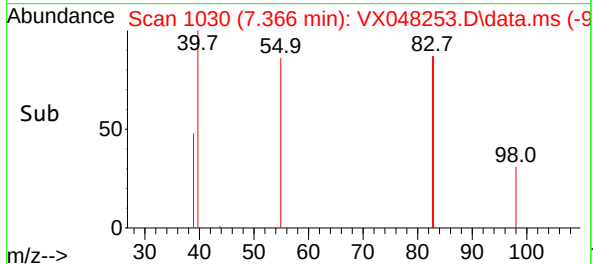
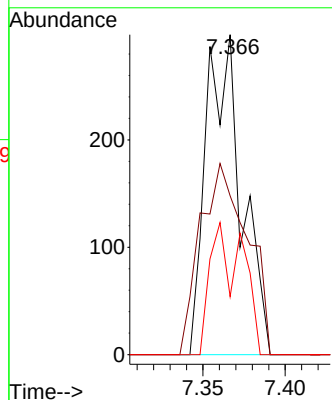
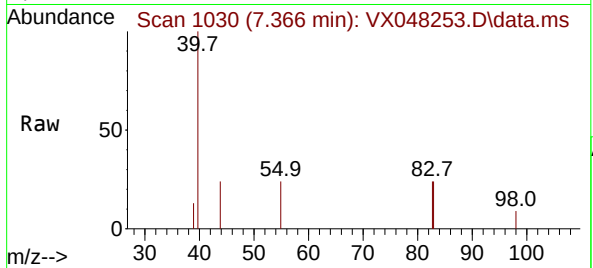




#39
Methylcyclohexane
Concen: 0.219 ug/l
RT: 7.366 min Scan# 1030
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

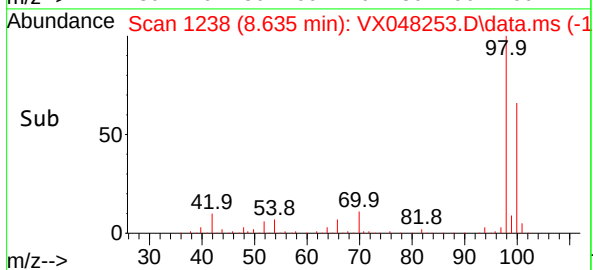
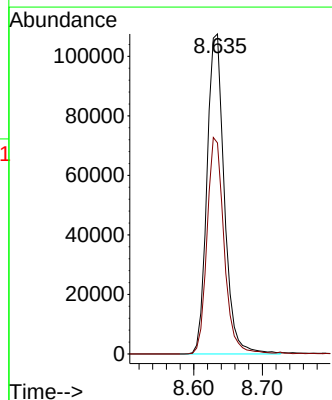
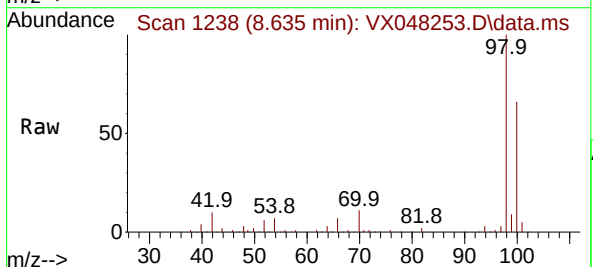
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

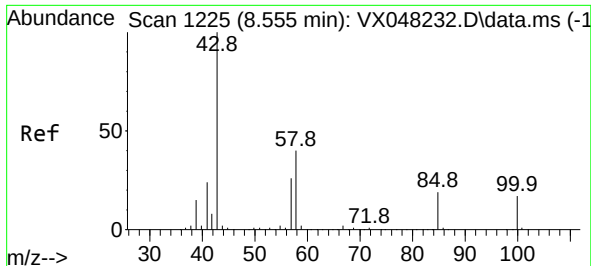
Tgt Ion: 83 Resp: 448
Ion Ratio Lower Upper
83 100
55 49.7 66.2 99.2#
98 18.1 38.9 58.3#



#50
Toluene-d8
Concen: 44.200 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 98 Resp: 188946
Ion Ratio Lower Upper
98 100
100 66.7 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 0.223 ug/l

RT: 8.549 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX048253.D

Acq: 21 Oct 2025 09:12

Instrument :

MSVOA_X

ClientSampleId :

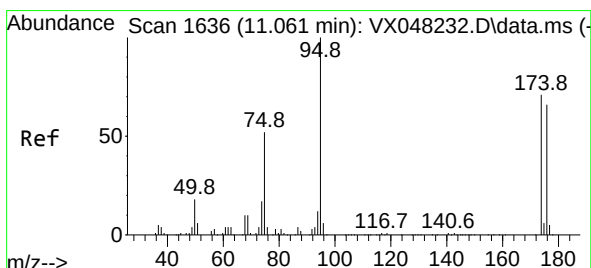
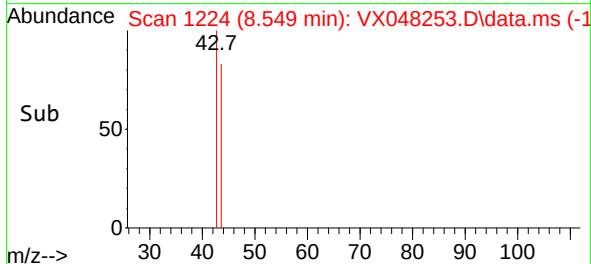
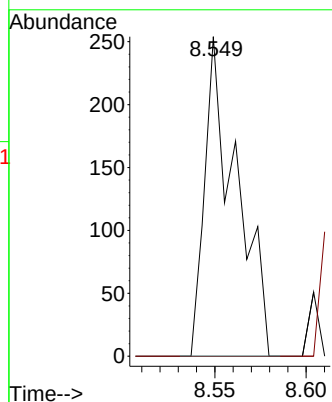
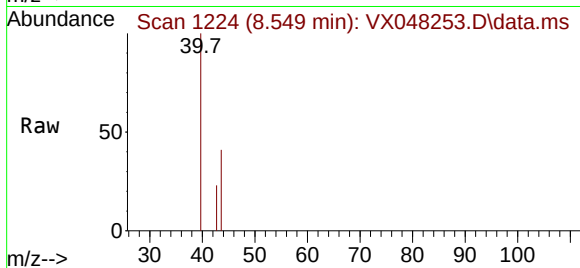
VX1021MBL01

Tgt Ion: 43 Resp: 304

Ion Ratio Lower Upper

43 100

58 0.0 29.5 44.3#



#62

4-Bromofluorobenzene

Concen: 49.520 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.000 min

Lab File: VX048253.D

Acq: 21 Oct 2025 09:12

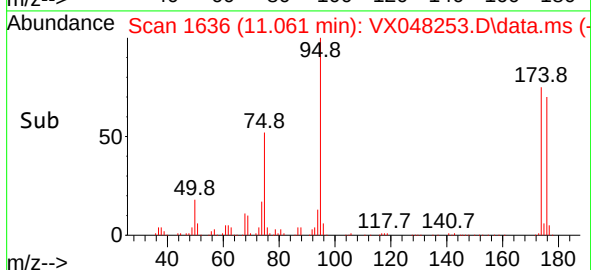
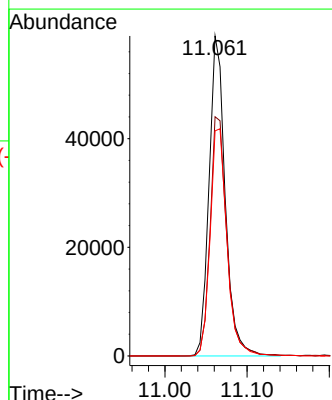
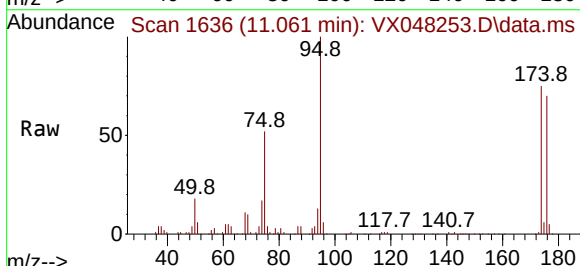
Tgt Ion: 95 Resp: 80532

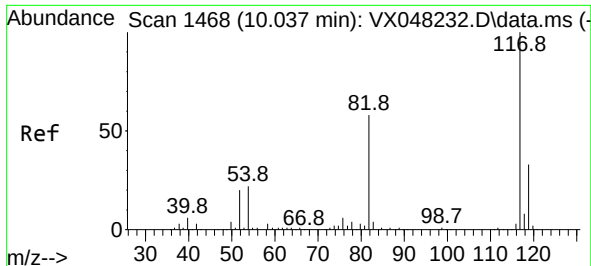
Ion Ratio Lower Upper

95 100

174 77.2 0.0 147.8

176 74.3 0.0 142.8

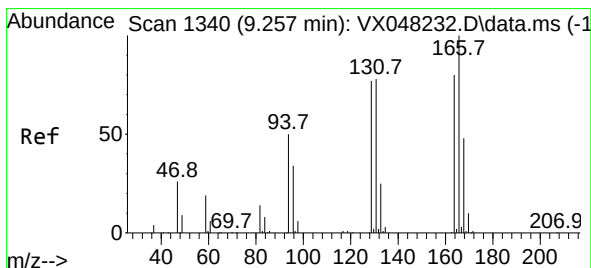
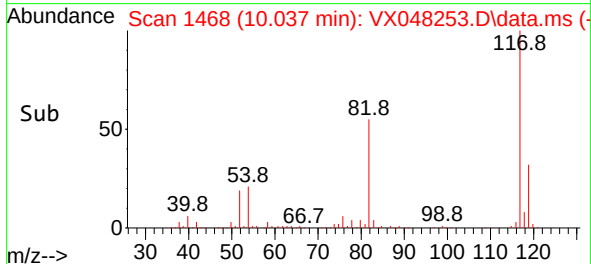
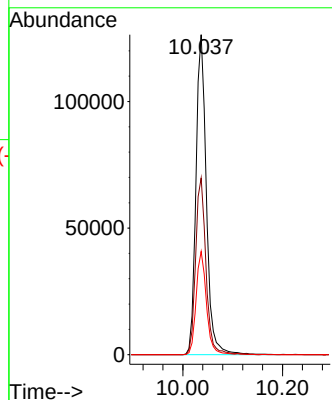
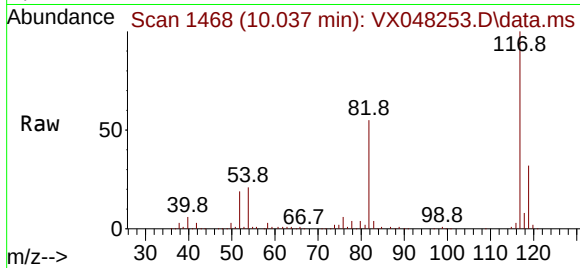




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

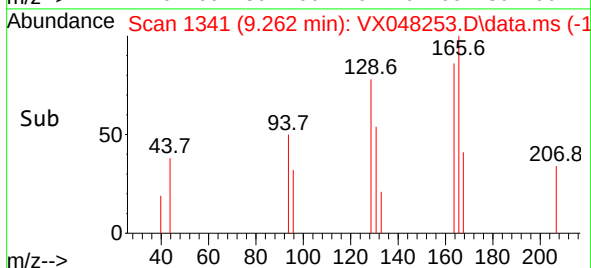
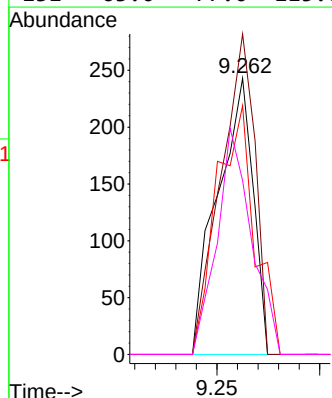
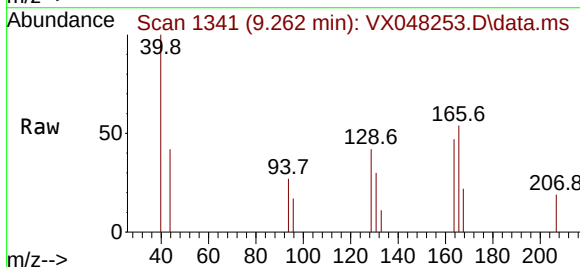
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

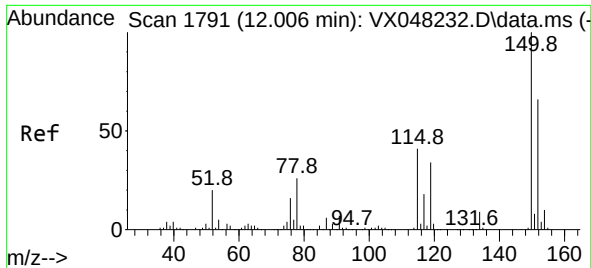
Tgt Ion:117 Resp: 183312
Ion Ratio Lower Upper
117 100
82 55.2 46.5 69.7
119 32.3 25.9 38.9



#64
Tetrachloroethene
Concen: 0.213 ug/l
RT: 9.262 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion:164 Resp: 292
Ion Ratio Lower Upper
164 100
166 116.0 104.5 156.7
129 90.1 81.8 122.6
131 63.0 77.0 115.6#

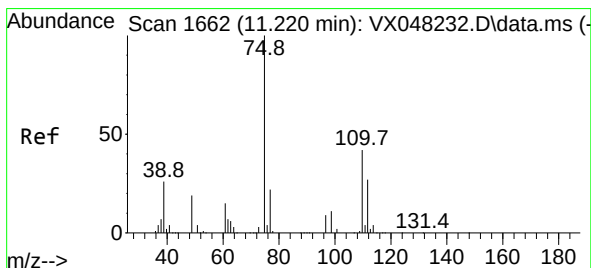
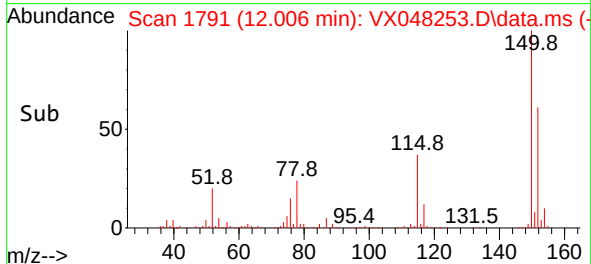
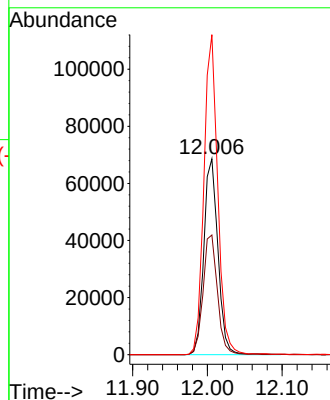
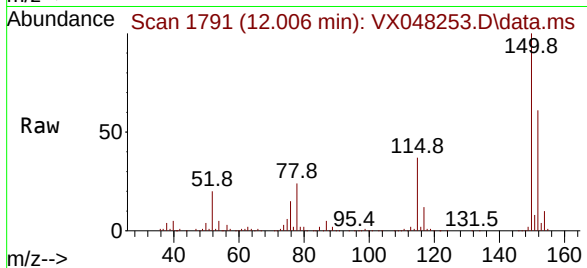




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.006 min Scan# 1
 Delta R.T. -0.000 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

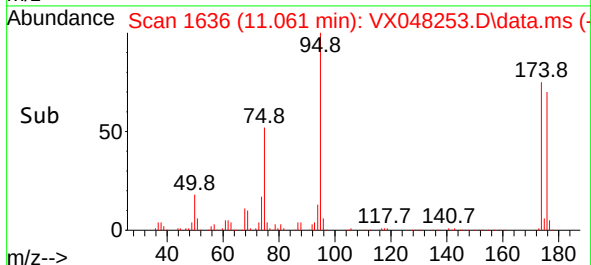
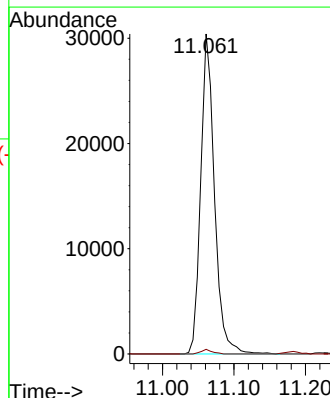
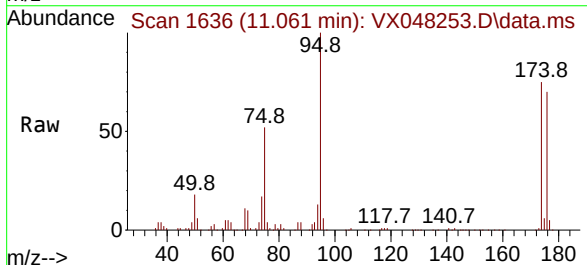
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1021MBL01

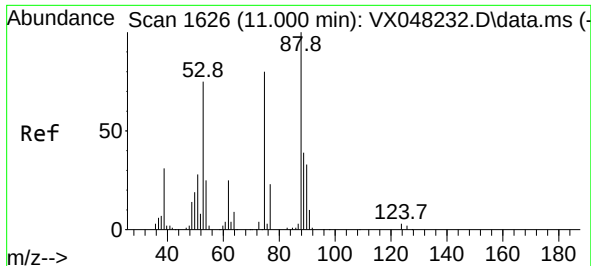
Tgt Ion:152 Resp: 90101
 Ion Ratio Lower Upper
 152 100
 115 62.2 43.1 129.4
 150 159.4 0.0 353.0



#76
 1,2,3-Trichloropropane
 Concen: 27.828 ug/l
 RT: 11.061 min Scan# 1636
 Delta R.T. -0.159 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

Tgt Ion: 75 Resp: 40660
 Ion Ratio Lower Upper
 75 100
 77 1.1 22.4 67.2#

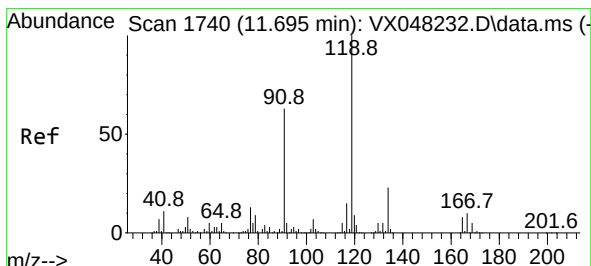
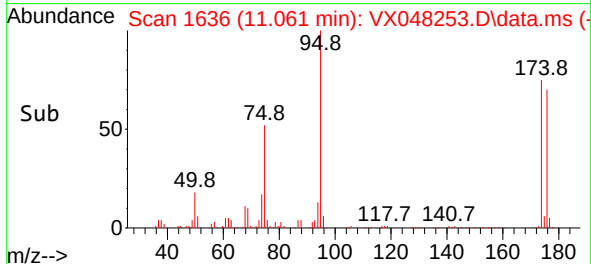
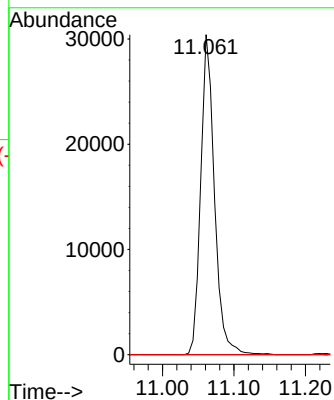
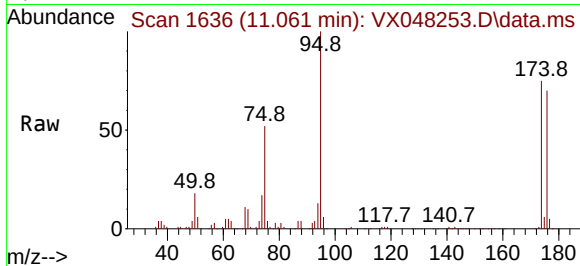




#81
trans-1,4-Dichloro-2-butene
Concen: 67.703 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

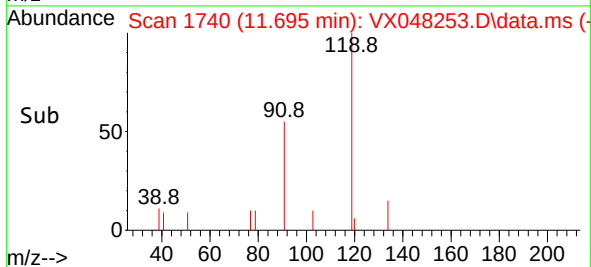
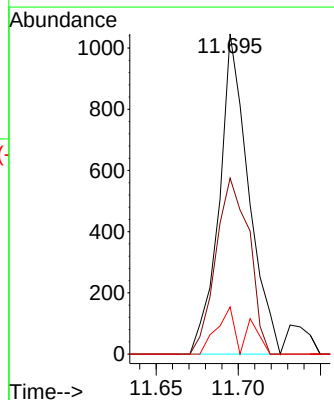
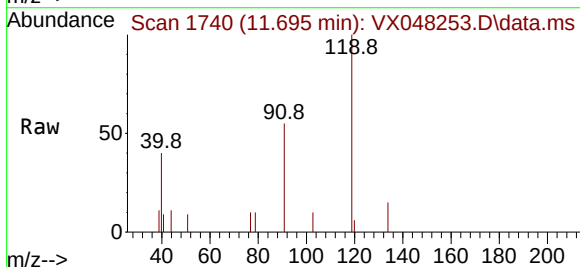
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

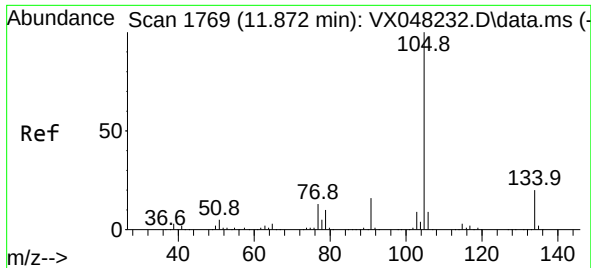
Tgt Ion: 75 Resp: 40660
Ion Ratio Lower Upper
75 100
53 0.0 79.5 119.3#
89 0.0 36.8 55.2#



#83
tert-Butylbenzene
Concen: 0.232 ug/l
RT: 11.695 min Scan# 1740
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 119 Resp: 1300
Ion Ratio Lower Upper
119 100
91 62.2 30.3 91.0
134 8.7 11.4 34.2#

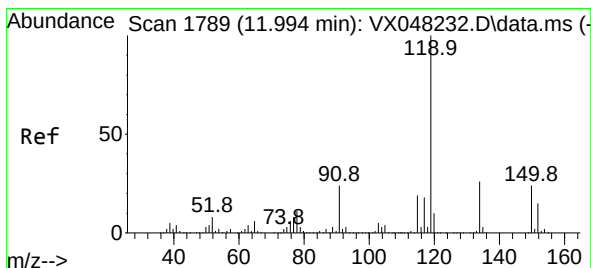
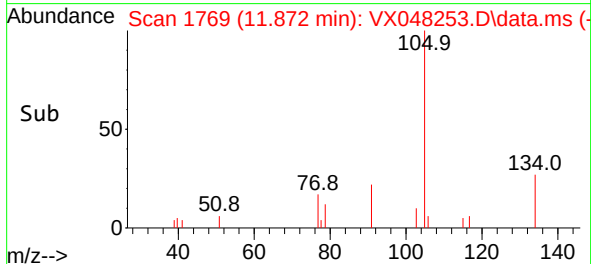
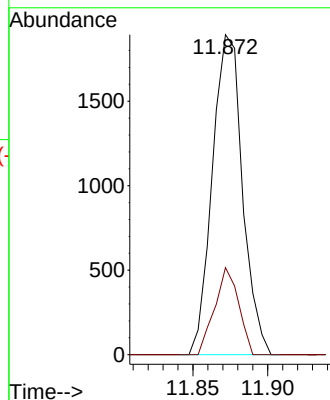
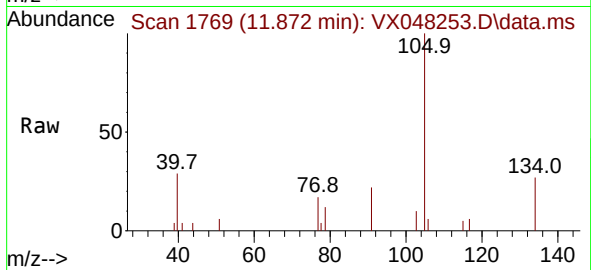




#85
 sec-Butylbenzene
 Concen: 0.394 ug/l
 RT: 11.872 min Scan# 1769
 Delta R.T. -0.000 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

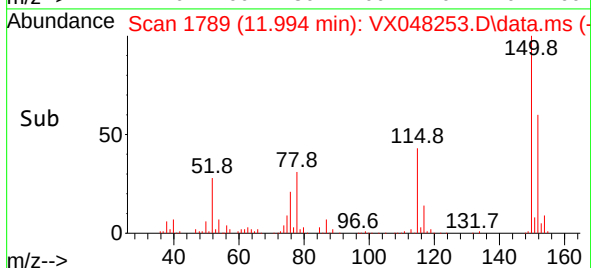
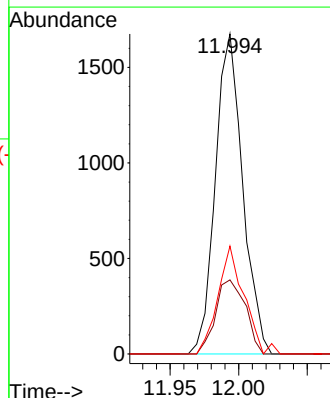
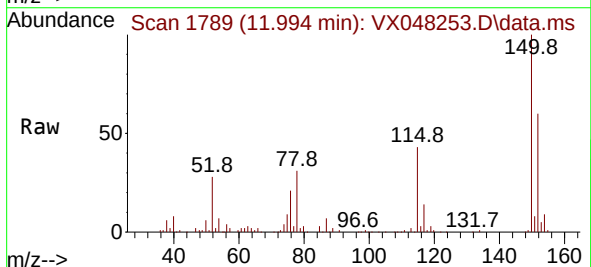
Instrument :
 MSVOA_X
 ClientSampleId :
 VX1021MBL01

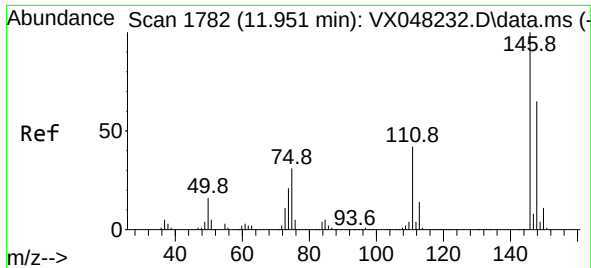
Tgt Ion:105 Resp: 2655
 Ion Ratio Lower Upper
 105 100
 134 21.5 10.1 30.1



#86
 p-Isopropyltoluene
 Concen: 0.399 ug/l
 RT: 11.994 min Scan# 1789
 Delta R.T. 0.006 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

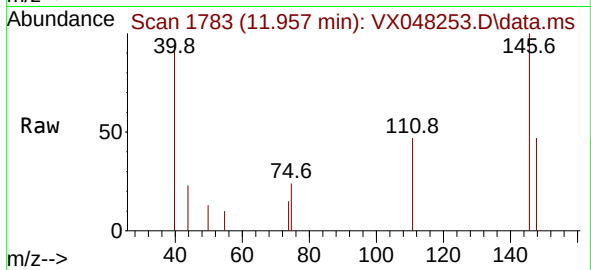
Tgt Ion:119 Resp: 2321
 Ion Ratio Lower Upper
 119 100
 134 25.2 13.0 39.0
 91 32.4 12.1 36.3





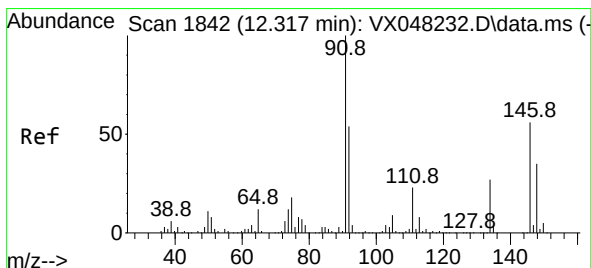
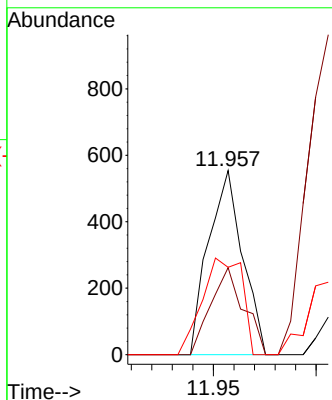
#87
1,3-Dichlorobenzene
Concen: 0.206 ug/l
RT: 11.957 min Scan# 1783
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01



Tgt Ion:146 Resp: 640

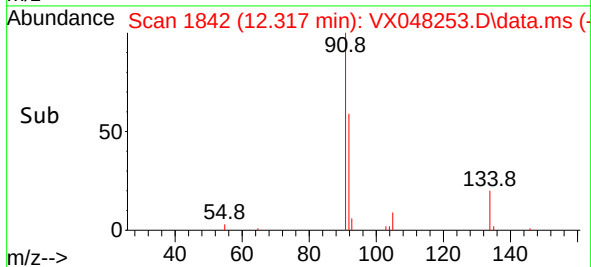
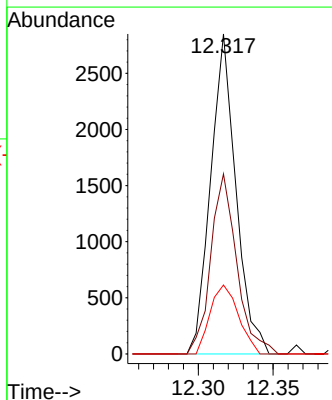
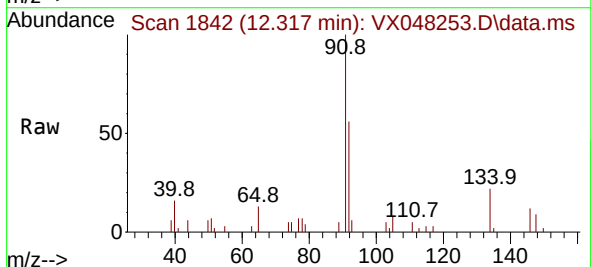
Ion	Ratio	Lower	Upper
146	100		
111	45.9	20.4	61.2
148	61.4	31.9	95.9

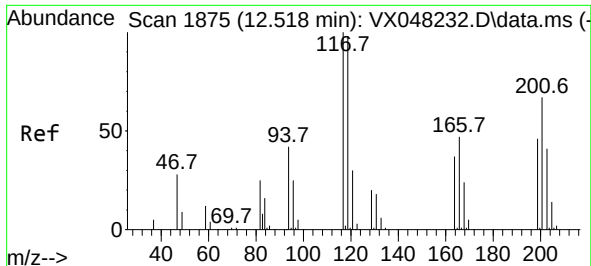


#89
n-Butylbenzene
Concen: 0.633 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion: 91 Resp: 3355

Ion	Ratio	Lower	Upper
91	100		
92	57.9	26.9	80.6
134	24.0	12.7	38.1

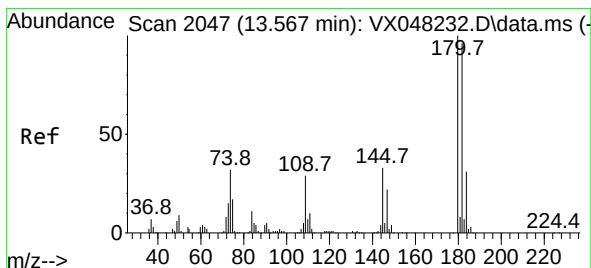
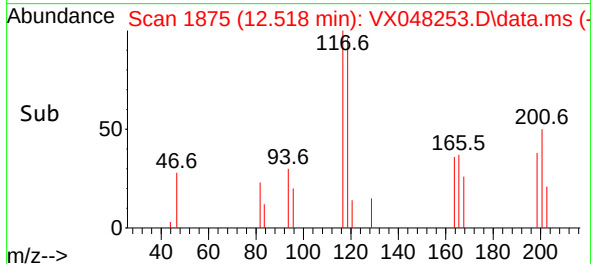
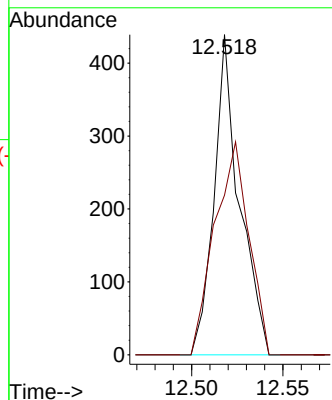
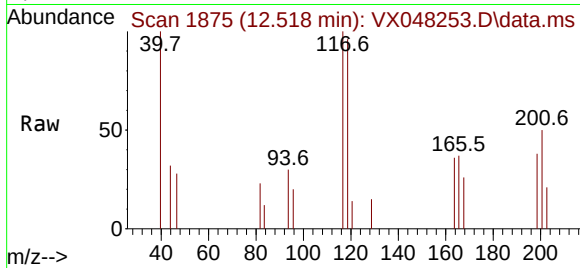




#90
Hexachloroethane
Concen: 0.369 ug/l
RT: 12.518 min Scan# 117
Delta R.T. -0.000 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

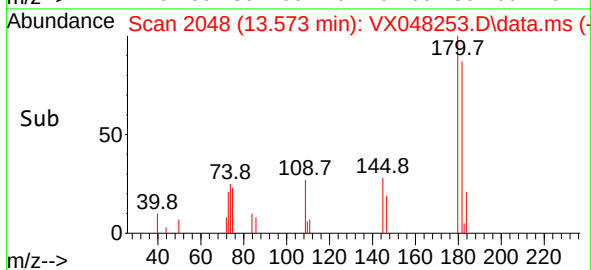
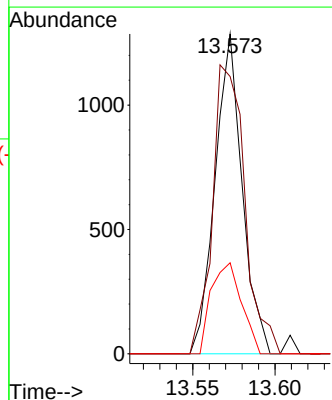
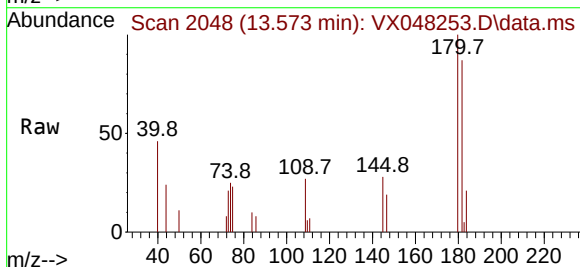
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

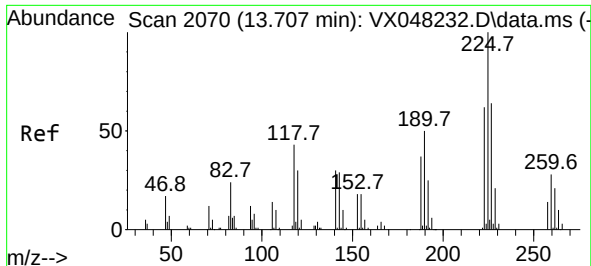
Tgt Ion:117 Resp: 424
Ion Ratio Lower Upper
117 100
201 89.6 34.1 102.2



#93
1,2,4-Trichlorobenzene
Concen: 0.746 ug/l
RT: 13.573 min Scan# 2048
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion:180 Resp: 1473
Ion Ratio Lower Upper
180 100
182 107.4 47.3 142.0
145 31.8 16.3 48.9

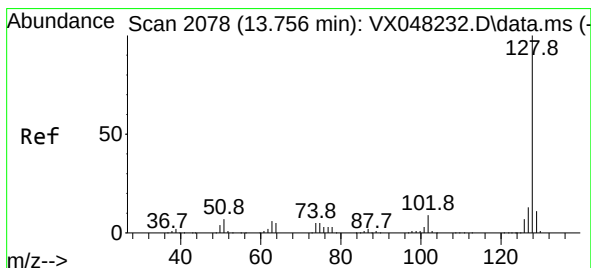
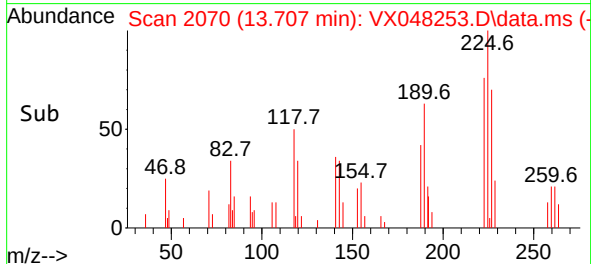
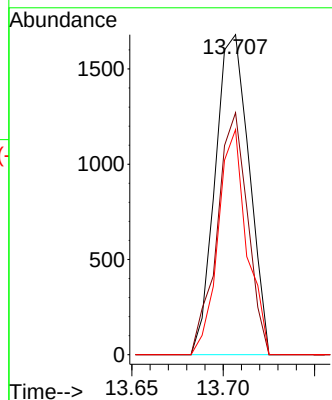
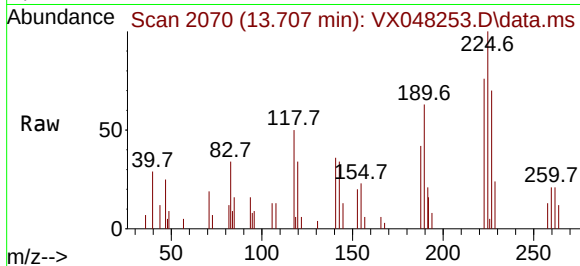




#94
Hexachlorobutadiene
Concen: 2.997 ug/l
RT: 13.707 min Scan# 2070
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

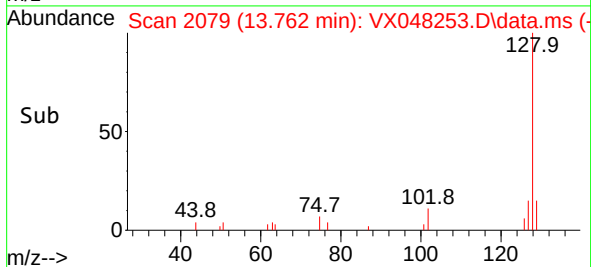
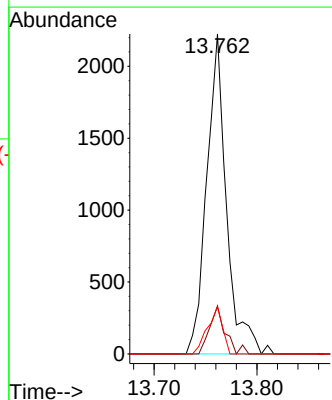
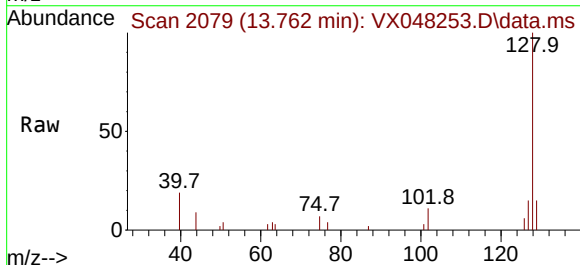
Instrument :
MSVOA_X
ClientSampleId :
VX1021MBL01

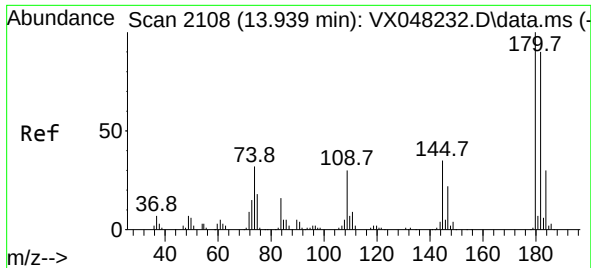
Tgt Ion:	225	Resp:	2172
Ion	Ratio	Lower	Upper
225	100		
223	68.1	32.6	97.7
227	59.7	32.5	97.4



#95
Naphthalene
Concen: 0.572 ug/l
RT: 13.762 min Scan# 2079
Delta R.T. 0.006 min
Lab File: VX048253.D
Acq: 21 Oct 2025 09:12

Tgt Ion:	128	Resp:	2991
Ion	Ratio	Lower	Upper
128	100		
127	11.9	10.2	15.4
129	11.1	8.6	12.8





#96
 1,2,3-Trichlorobenzene
 Concen: 0.892 ug/l
 RT: 13.945 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VX048253.D
 Acq: 21 Oct 2025 09:12

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1021MBL01

Tgt Ion:180 Resp: 1616
 Ion Ratio Lower Upper
 180 100
 182 97.5 46.6 139.7
 145 31.3 16.9 50.7

