

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX093025\
 Data File : VX047902.D
 Acq On : 30 Sep 2025 12:09
 Operator : JC/MD
 Sample : Q3213-10RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-184-EB-20250923

Quant Time: Oct 01 01:07:33 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)

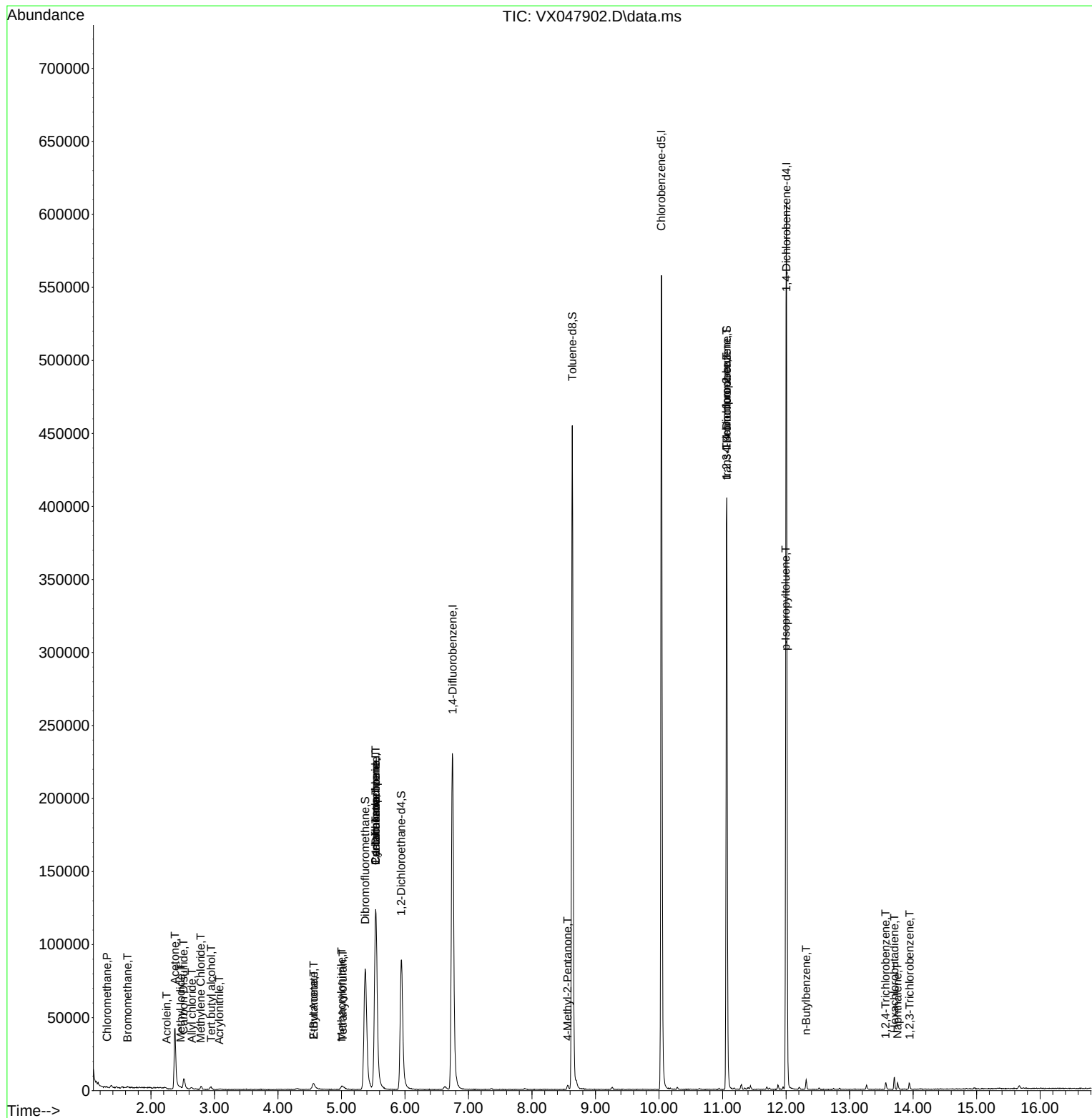
Internal Standards						
1) Pentafluorobenzene	5.538	168	127478	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	257240	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	260569	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	127484	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	98063	48.328	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	96.660%
35) Dibromofluoromethane	5.373	113	82184	47.638	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	95.280%
50) Toluene-d8	8.635	98	284445	47.650	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	95.300%
62) 4-Bromofluorobenzene	11.067	95	118144	52.148	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	104.300%
Target Compounds						
					Qvalue	
3) Chloromethane	1.307	50	745	0.429	ug/l	95
5) Bromomethane	1.630	94	301	0.280	ug/l	97
10) Methyl Iodide	2.465	142	1135	0.494	ug/l #	66
11) Tert butyl alcohol	2.947	59	1509	6.677	ug/l #	72
13) Acrolein	2.246	56	62	0.298	ug/l #	55
14) Allyl chloride	2.642	41	1423	0.455	ug/l #	49
15) Acrylonitrile	3.075	53	223	0.266	ug/l #	64
16) Acetone	2.380	43	56694	64.259	ug/l	95
17) Carbon Disulfide	2.514	76	5205	1.255	ug/l	97
20) Methylene Chloride	2.782	84	971	0.520	ug/l #	91
25) 2-Butanone	4.562	43	9365	8.510	ug/l	95
29) Tetrahydrofuran	5.019	42	2450	3.701	ug/l #	84
31) Cyclohexane	5.538	56	3091	1.153	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	10821	4.292	ug/l #	47
37) Ethyl Acetate	4.562	43	9365	3.470	ug/l #	71
38) Carbon Tetrachloride	5.538	117	13018	4.753	ug/l #	19
41) Methacrylonitrile	5.001	41	1882	1.351	ug/l #	43
51) 4-Methyl-2-Pentanone	8.562	43	2222	0.905	ug/l	96
76) 1,2,3-Trichloropropane	11.061	75	60244	23.340	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	60244	59.520	ug/l #	8
86) p-Isopropyltoluene	11.994	119	1953	0.238	ug/l #	78
89) n-Butylbenzene	12.317	91	2428	0.320	ug/l	99
93) 1,2,4-Trichlorobenzene	13.567	180	1390	0.506	ug/l	96
94) Hexachlorobutadiene	13.707	225	1040	1.115	ug/l	88
95) Naphthalene	13.756	128	3094	0.370	ug/l	98
96) 1,2,3-Trichlorobenzene	13.945	180	1117	0.437	ug/l	96

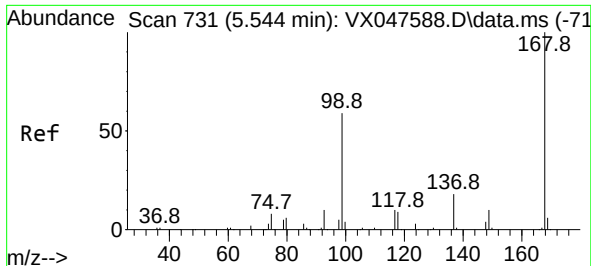
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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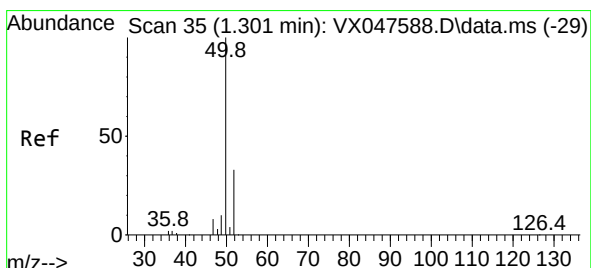
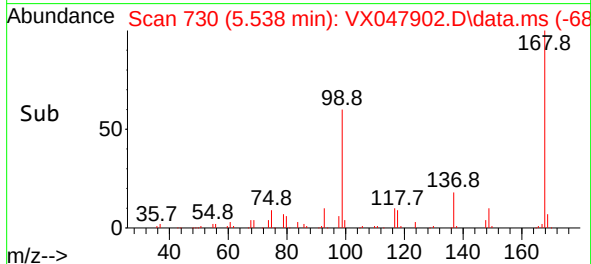
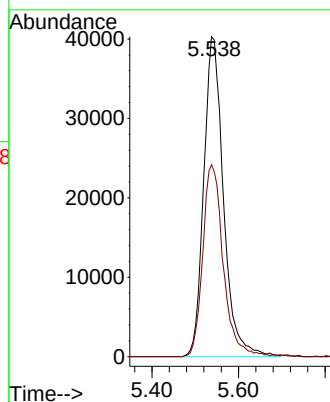
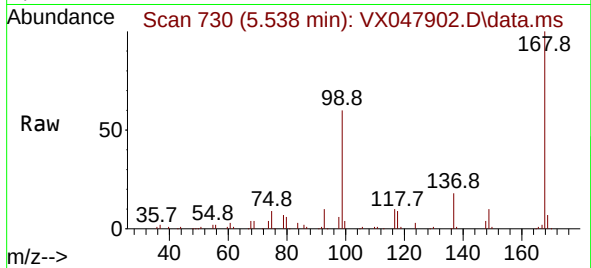




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

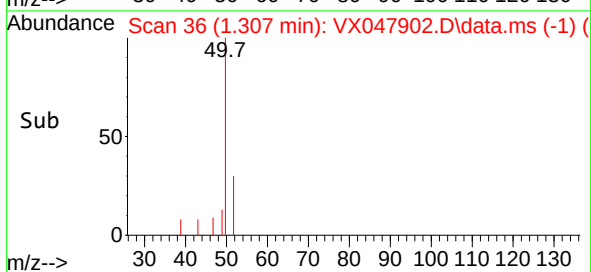
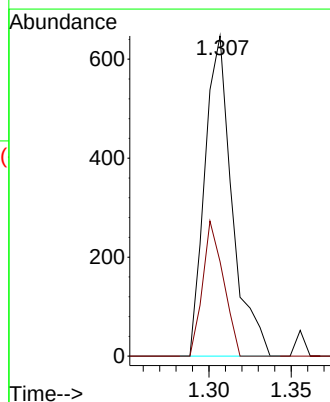
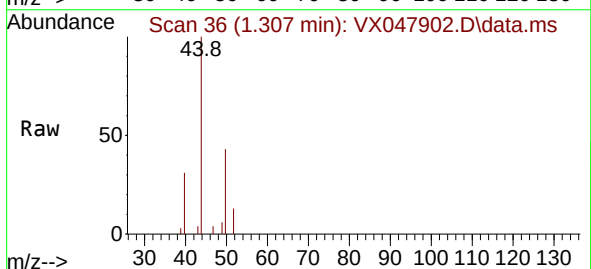
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

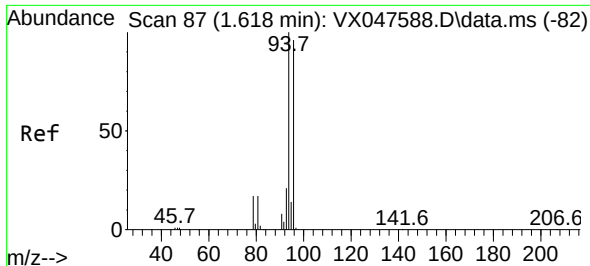
Tgt Ion:168 Resp: 127478
Ion Ratio Lower Upper
168 100
99 60.0 48.8 73.2



#3
Chloromethane
Concen: 0.429 ug/l
RT: 1.307 min Scan# 36
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 50 Resp: 745
Ion Ratio Lower Upper
50 100
52 29.5 26.1 39.1

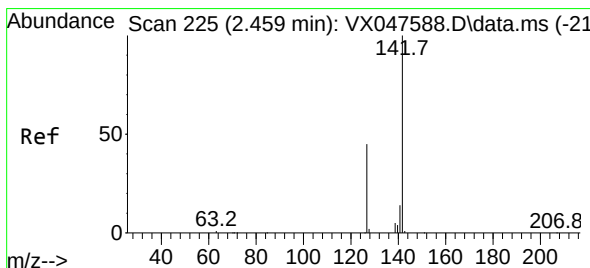
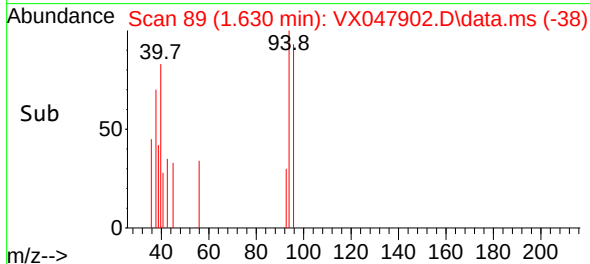
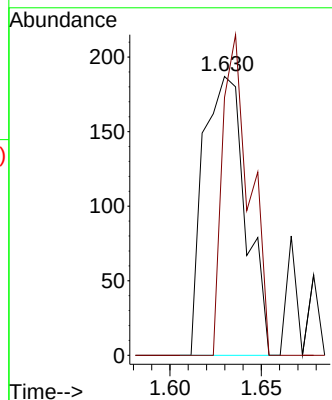
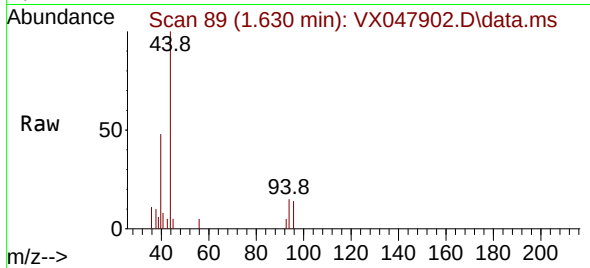




#5
Bromomethane
Concen: 0.280 ug/l
RT: 1.630 min Scan# 89
Delta R.T. 0.012 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

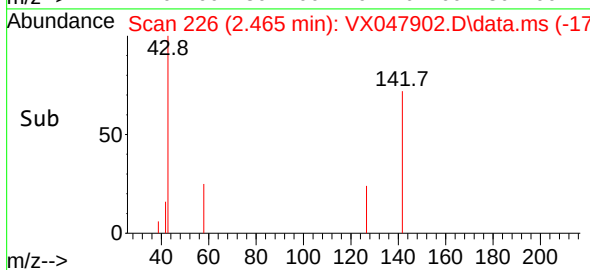
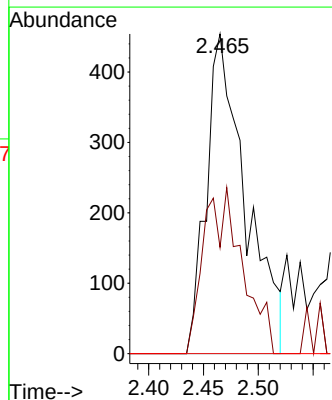
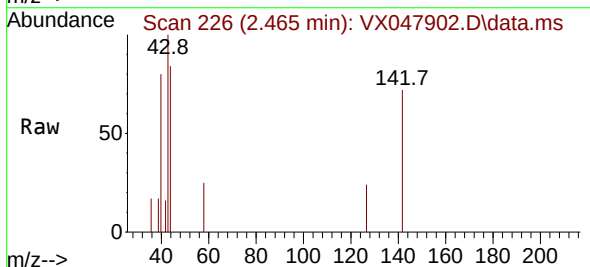
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

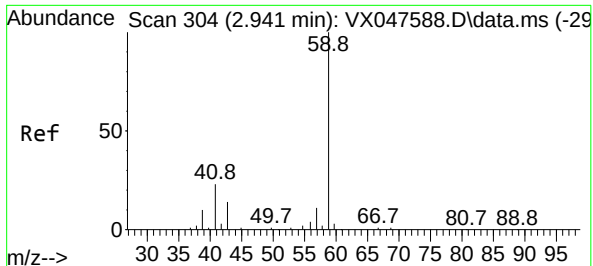
Tgt Ion: 94 Resp: 301
Ion Ratio Lower Upper
94 100
96 92.5 76.6 115.0



#10
Methyl Iodide
Concen: 0.494 ug/l
RT: 2.465 min Scan# 226
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 142 Resp: 1135
Ion Ratio Lower Upper
142 100
127 23.9 37.2 55.8#
141 0.0 11.4 17.0#

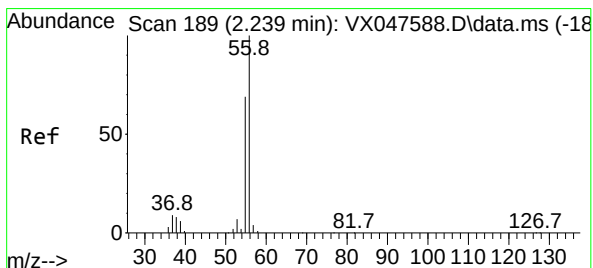
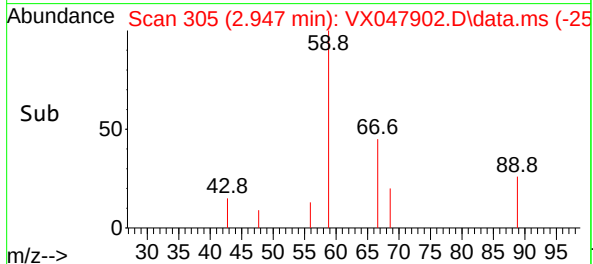
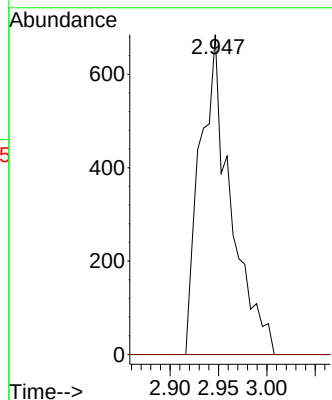
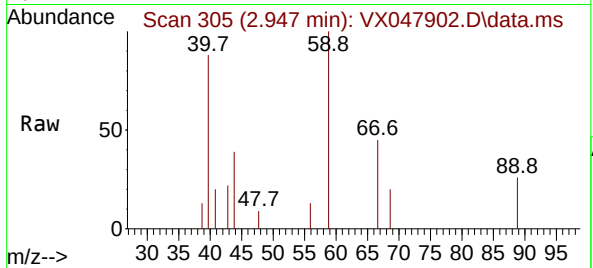




#11
Tert butyl alcohol
Concen: 6.677 ug/l
RT: 2.947 min Scan# 30
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

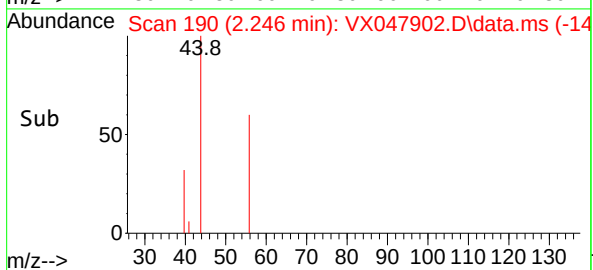
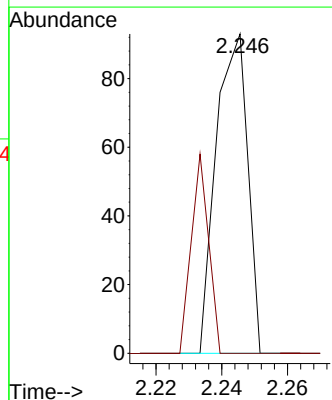
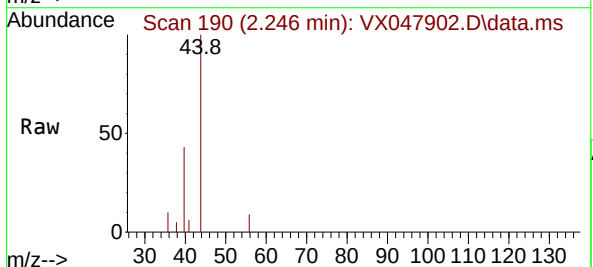
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

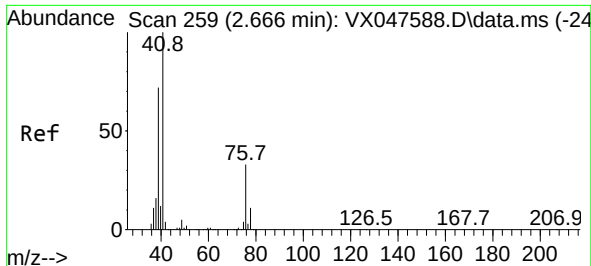
Tgt Ion: 59 Resp: 1509
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: 0.298 ug/l
RT: 2.246 min Scan# 190
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 56 Resp: 62
Ion Ratio Lower Upper
56 100
55 33.9 57.2 85.8#

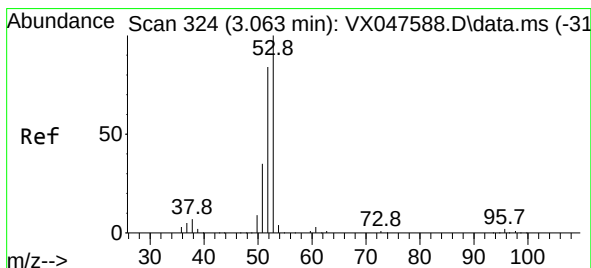
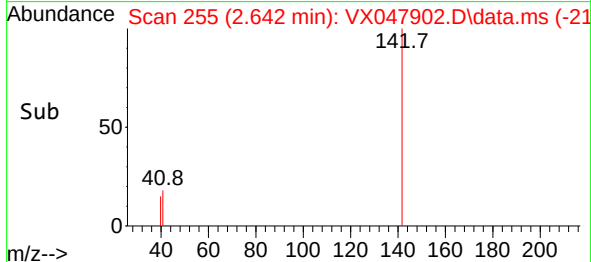
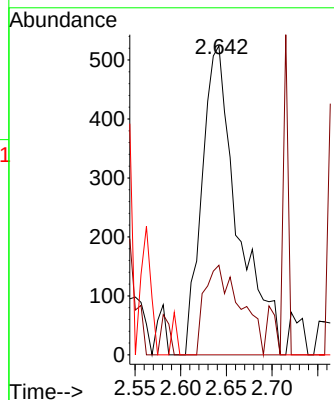
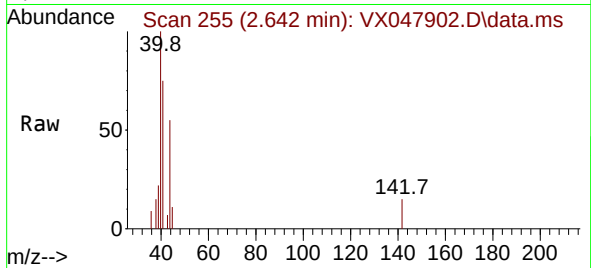




#14
 Allyl chloride
 Concen: 0.455 ug/l
 RT: 2.642 min Scan# 21
 Delta R.T. -0.024 min
 Lab File: VX047902.D
 Acq: 30 Sep 2025 12:09

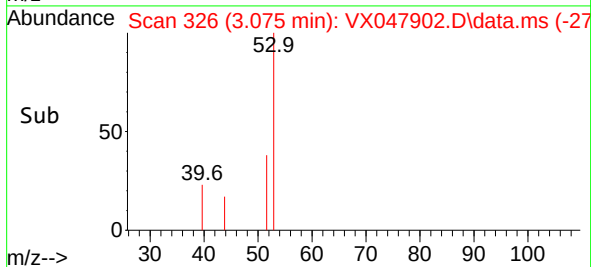
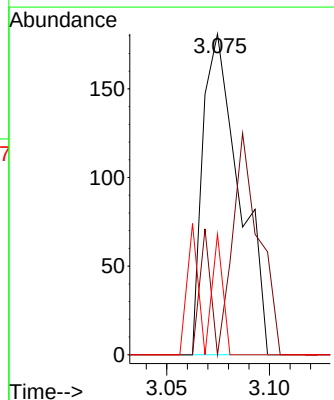
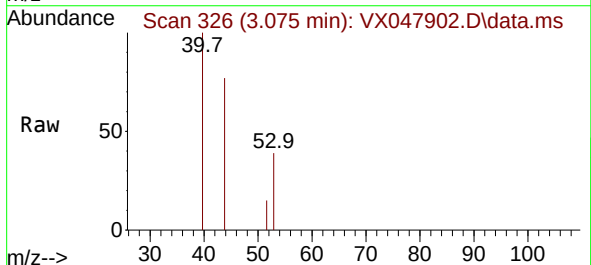
Instrument :
 MSVOA_X
 ClientSampleId :
 BP-VPB-184-EB-20250923

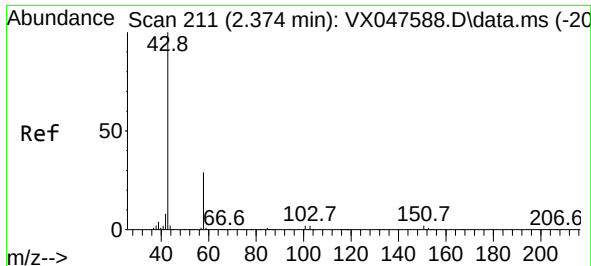
Tgt Ion: 41 Resp: 1423
 Ion Ratio Lower Upper
 41 100
 39 29.0 54.7 82.1#
 76 0.0 25.7 38.5#



#15
 Acrylonitrile
 Concen: 0.266 ug/l
 RT: 3.075 min Scan# 326
 Delta R.T. 0.012 min
 Lab File: VX047902.D
 Acq: 30 Sep 2025 12:09

Tgt Ion: 53 Resp: 223
 Ion Ratio Lower Upper
 53 100
 52 61.4 66.4 99.6#
 51 0.0 29.5 44.3#

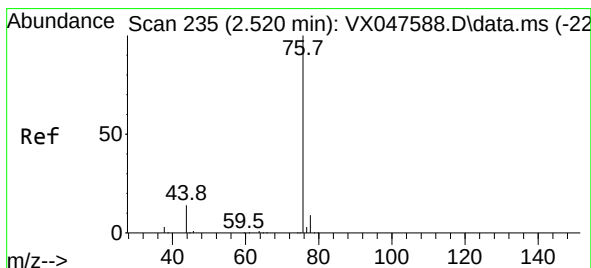
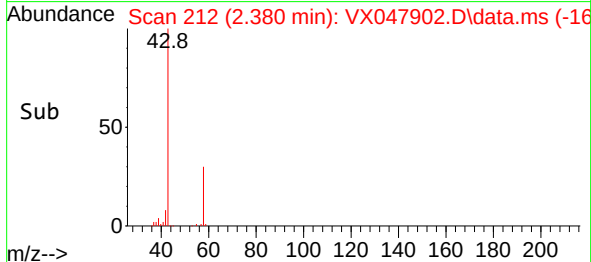
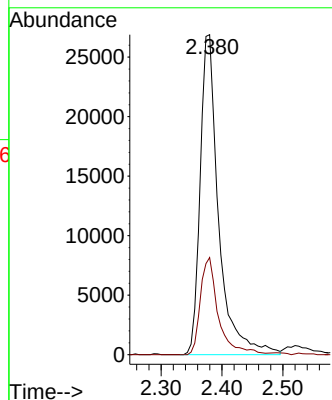
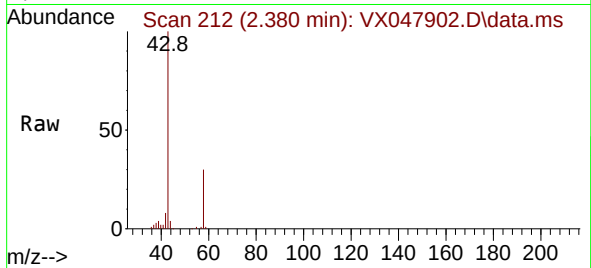




#16
Acetone
Concen: 64.259 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

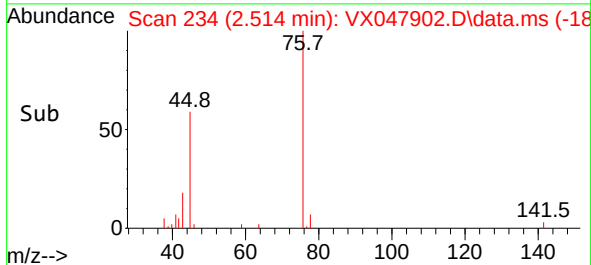
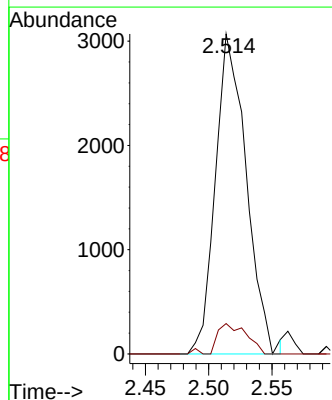
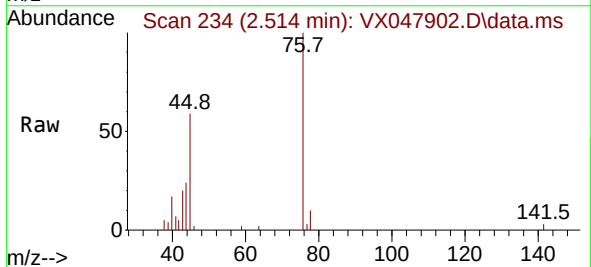
Instrument :
MSVOA_X
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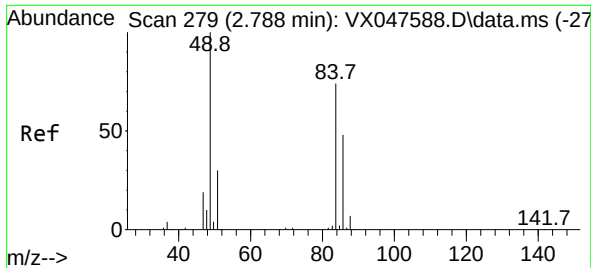
Tgt Ion: 43 Resp: 56694
Ion Ratio Lower Upper
43 100
58 31.8 23.4 35.0



#17
Carbon Disulfide
Concen: 1.255 ug/l
RT: 2.514 min Scan# 234
Delta R.T. -0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 76 Resp: 5205
Ion Ratio Lower Upper
76 100
78 9.5 6.8 10.2

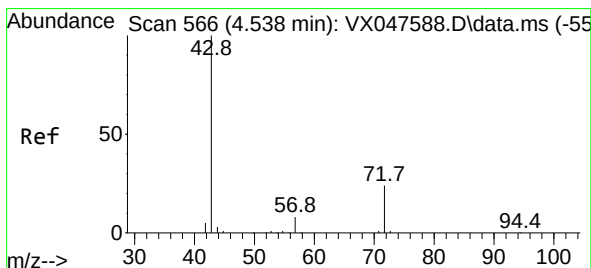
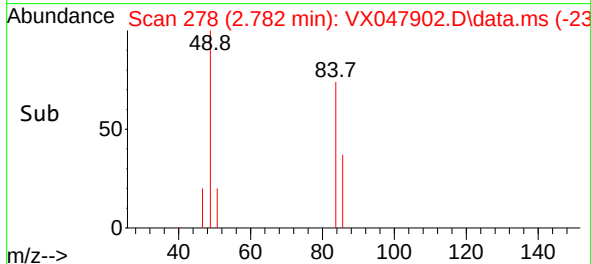
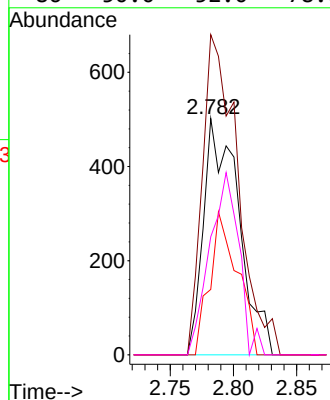
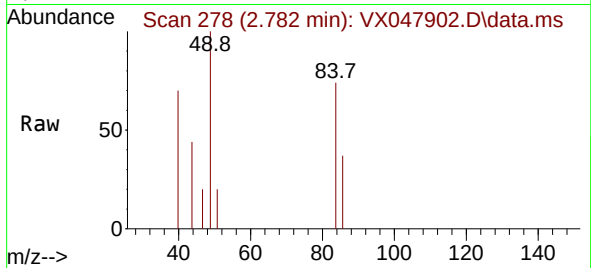




#20
Methylene Chloride
Concen: 0.520 ug/l
RT: 2.782 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

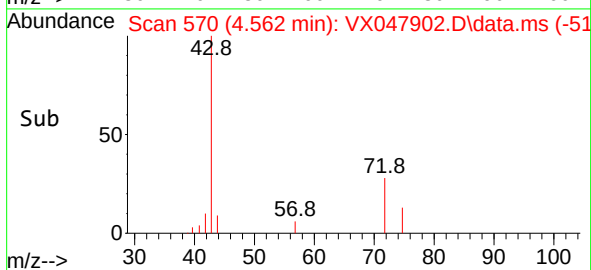
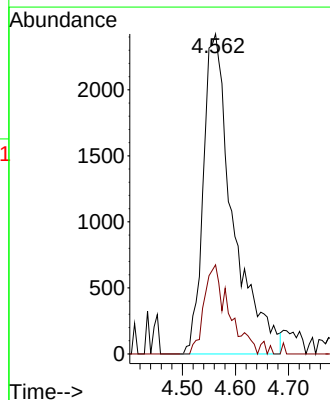
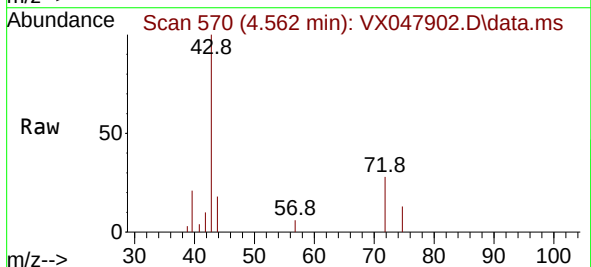
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

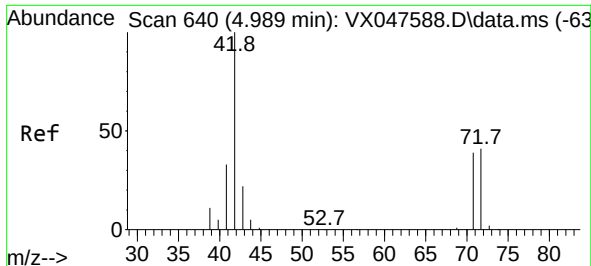
Tgt Ion: 84 Resp: 971
Ion Ratio Lower Upper
84 100
49 135.5 108.6 162.8
51 27.7 32.6 48.8#
86 50.0 52.0 78.0#



#25
2-Butanone
Concen: 8.510 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.024 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 43 Resp: 9365
Ion Ratio Lower Upper
43 100
72 27.9 20.1 30.1





#29

Tetrahydrofuran

Concen: 3.701 ug/l

RT: 5.019 min Scan# 64

Delta R.T. 0.030 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-EB-20250923

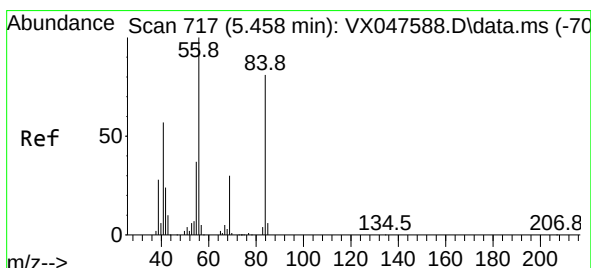
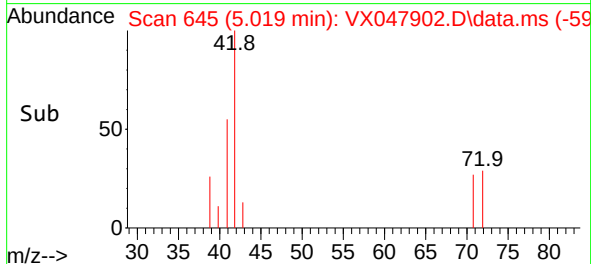
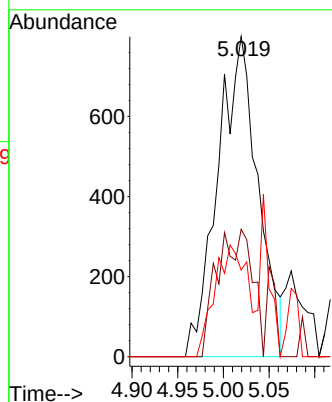
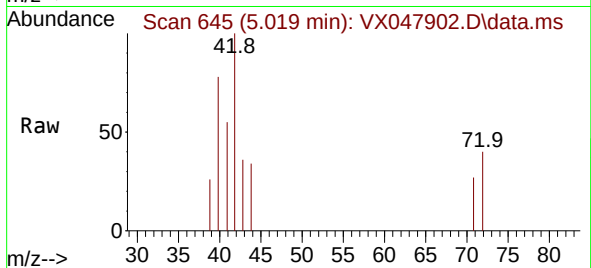
Tgt Ion: 42 Resp: 2450

Ion Ratio Lower Upper

42 100

72 34.6 34.2 51.2

71 27.7 31.9 47.9#



#31

Cyclohexane

Concen: 1.153 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.079 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

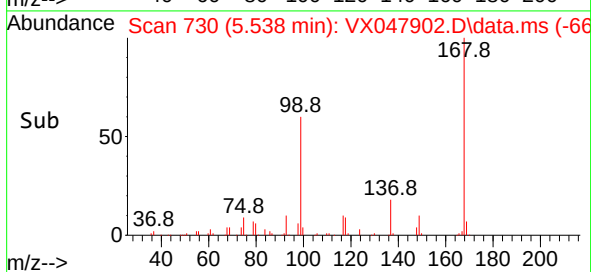
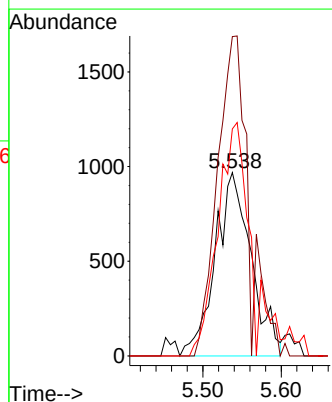
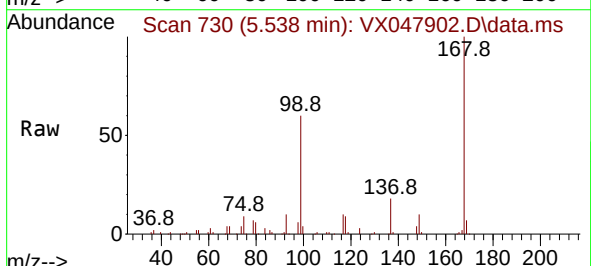
Tgt Ion: 56 Resp: 3091

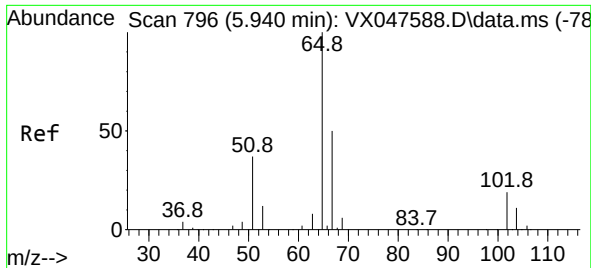
Ion Ratio Lower Upper

56 100

69 174.3 23.8 35.8#

84 123.9 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 48.328 ug/l

RT: 5.940 min Scan# 796

Delta R.T. -0.000 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

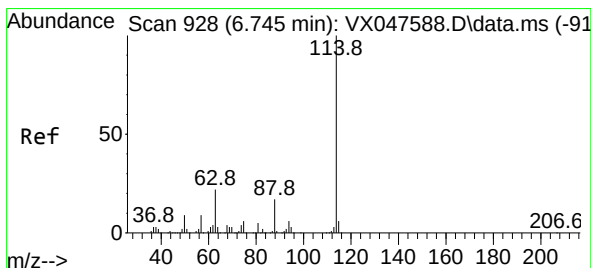
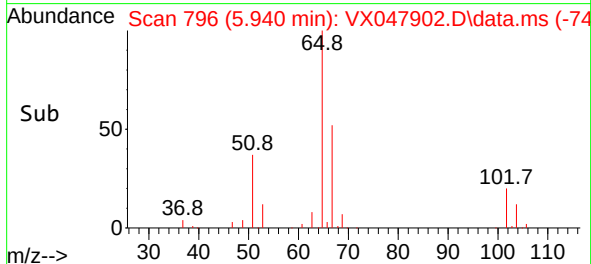
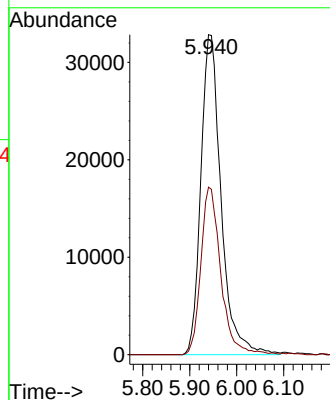
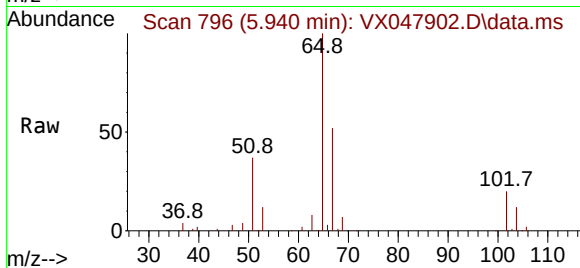
BP-VPB-184-EB-20250923

Tgt Ion: 65 Resp: 98063

Ion Ratio Lower Upper

65 100

67 51.7 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

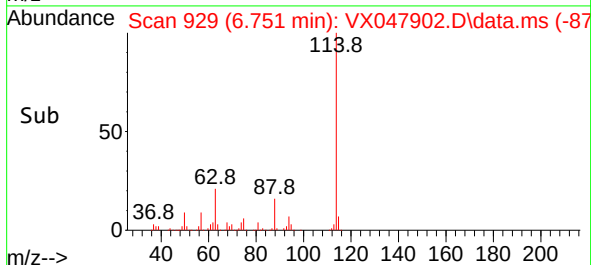
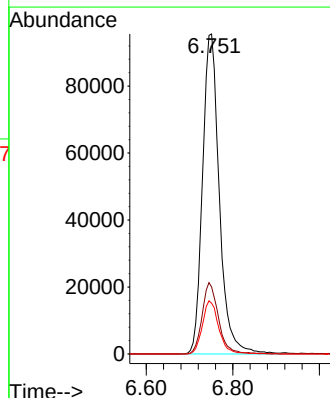
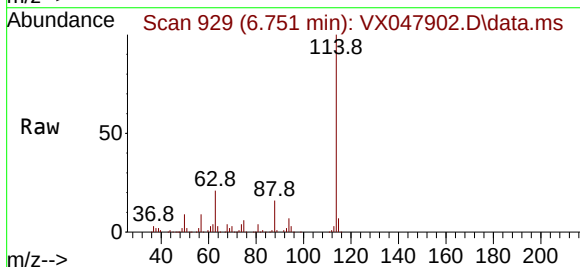
Tgt Ion: 114 Resp: 257240

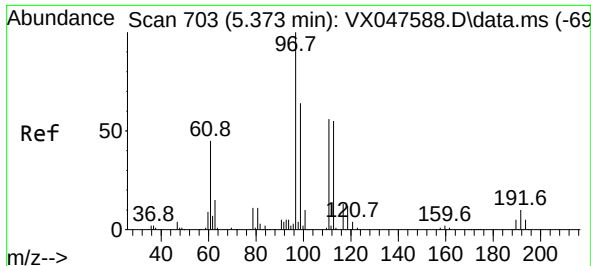
Ion Ratio Lower Upper

114 100

63 21.0 0.0 44.0

88 15.9 0.0 34.2

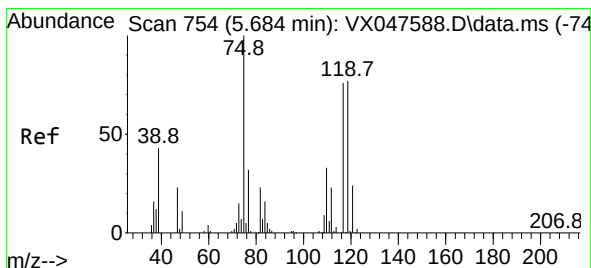
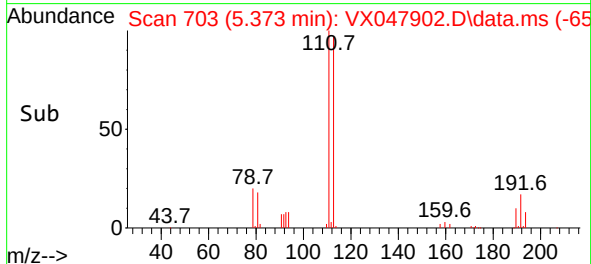
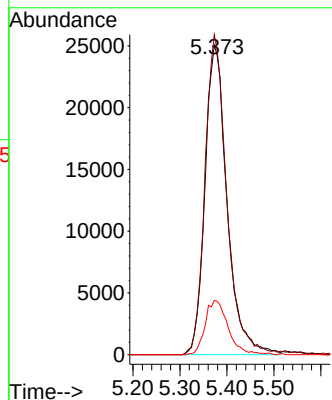
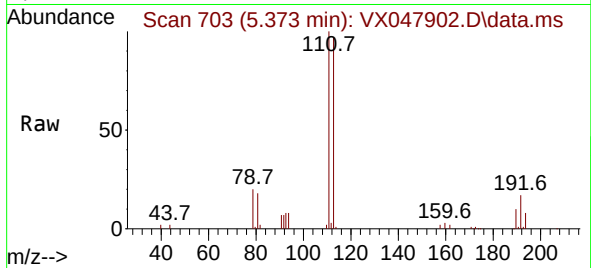




#35
Dibromofluoromethane
Concen: 47.638 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

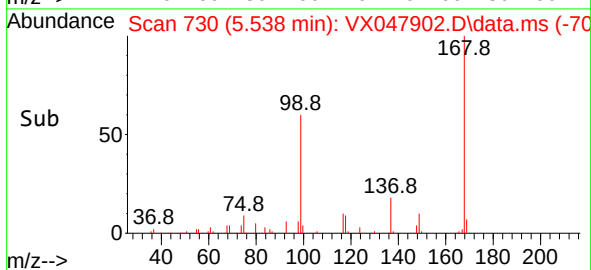
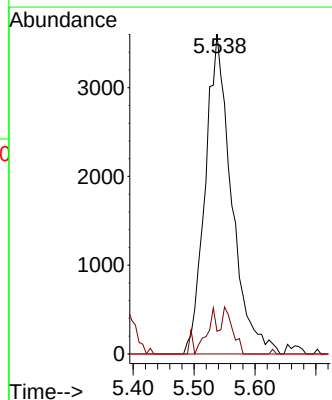
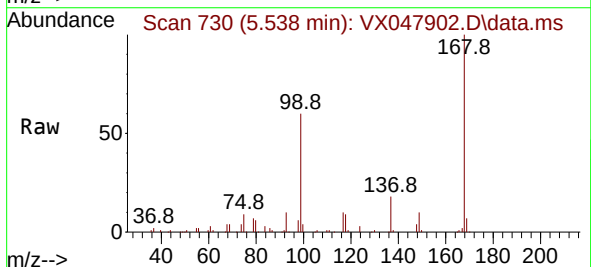
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

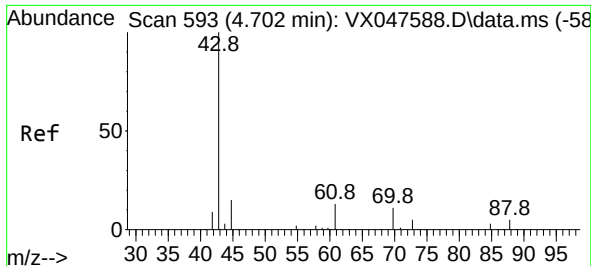
Tgt Ion:113 Resp: 82184
Ion Ratio Lower Upper
113 100
111 101.4 80.9 121.3
192 18.2 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.292 ug/l
RT: 5.538 min Scan# 730
Delta R.T. -0.146 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 75 Resp: 10821
Ion Ratio Lower Upper
75 100
110 5.1 16.7 50.1#
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 3.470 ug/l

RT: 4.562 min Scan# 51

Delta R.T. -0.140 min

Lab File: VX047902.D

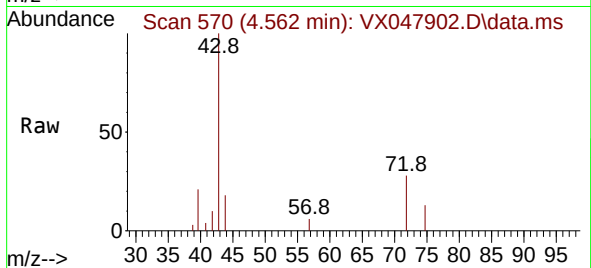
Acq: 30 Sep 2025 12:09

Instrument :

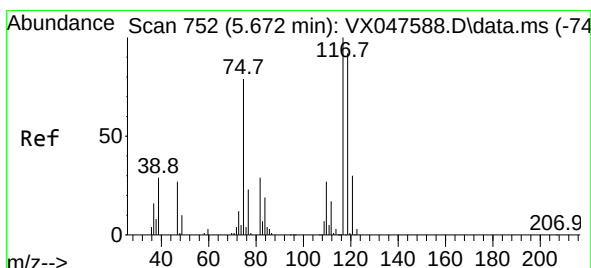
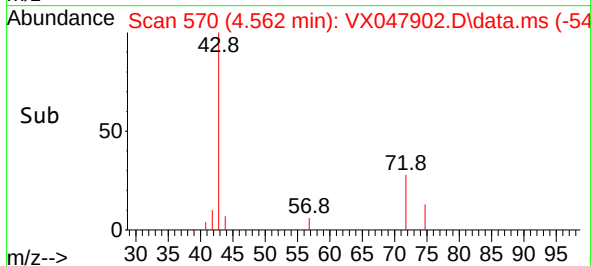
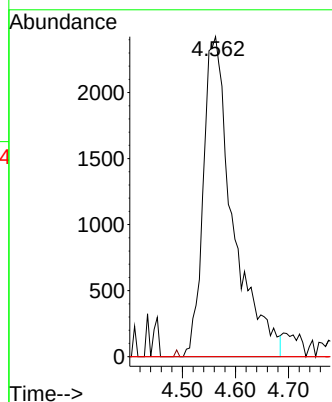
MSVOA_X

ClientSampleId :

BP-VPB-184-EB-20250923



Tgt Ion:	43	Resp:	9365
Ion	Ratio	Lower	Upper
43	100		
61	0.0	9.8	14.8#
70	0.0	7.9	11.9#



#38

Carbon Tetrachloride

Concen: 4.753 ug/l

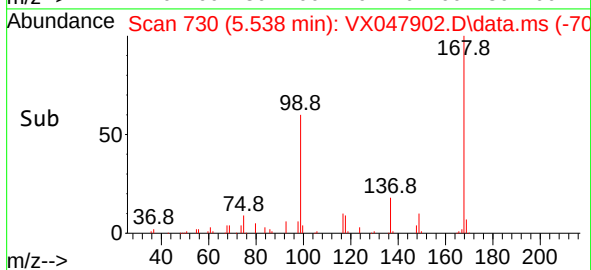
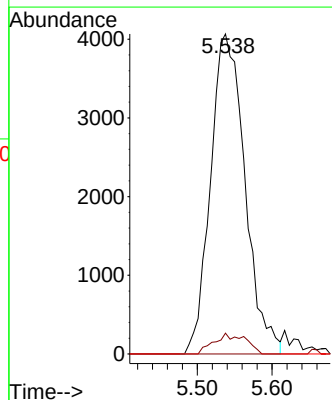
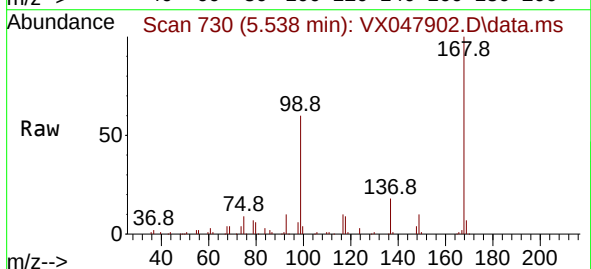
RT: 5.538 min Scan# 730

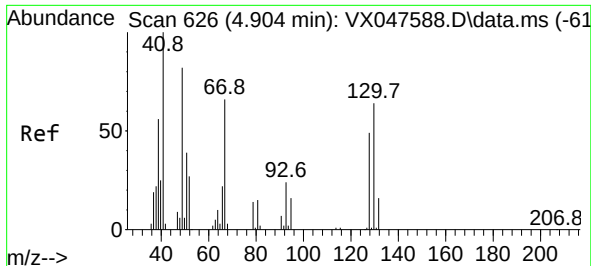
Delta R.T. -0.134 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

Tgt Ion:	117	Resp:	13018
Ion	Ratio	Lower	Upper
117	100		
119	6.5	73.4	110.2#
121	0.0	23.8	35.6#

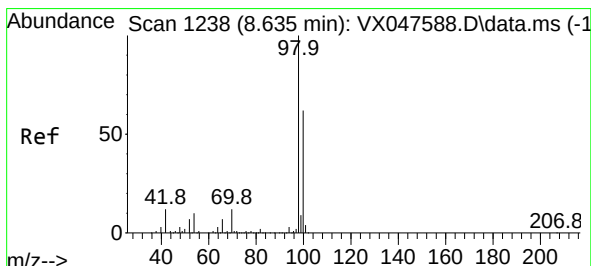
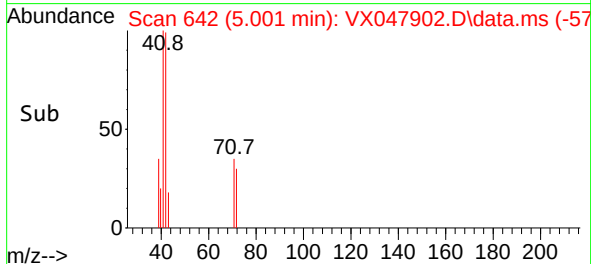
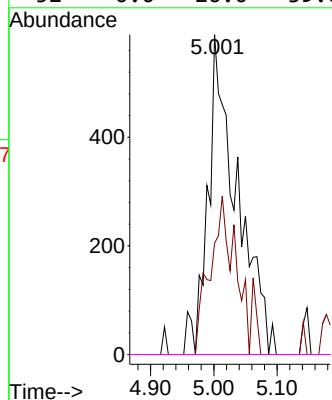
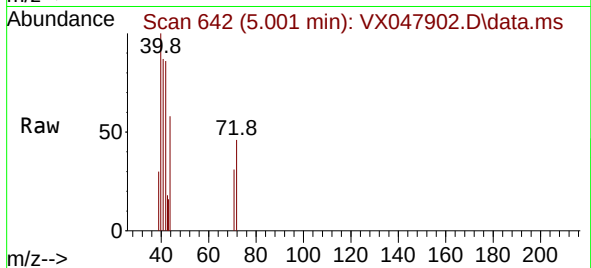




#41
Methacrylonitrile
Concen: 1.351 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.098 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

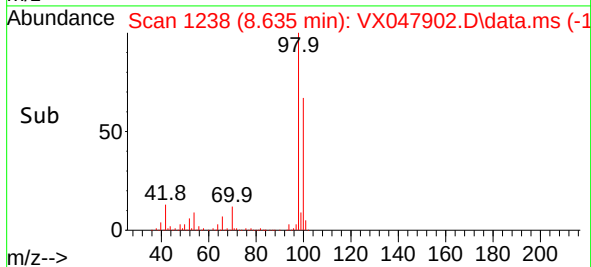
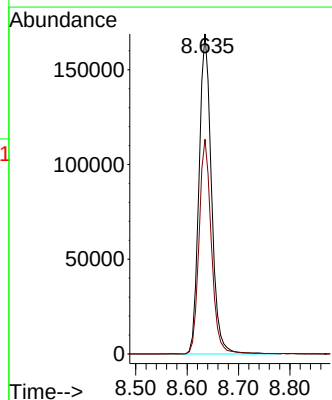
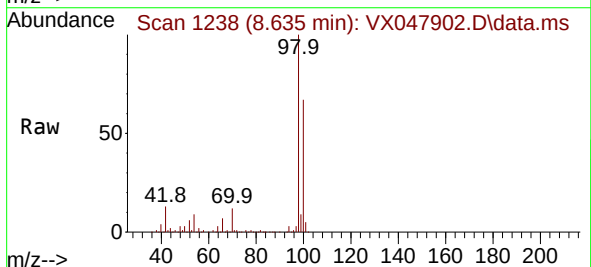
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

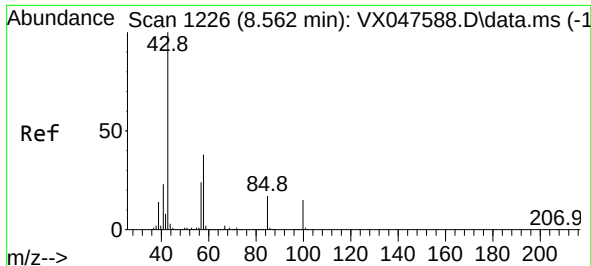
Tgt Ion:	41	Resp:	1882
Ion	Ratio	Lower	Upper
41	100		
39	42.7	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#50
Toluene-d8
Concen: 47.650 ug/l
RT: 8.635 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion:	98	Resp:	284445
Ion	Ratio	Lower	Upper
98	100		
100	66.5	53.0	79.4

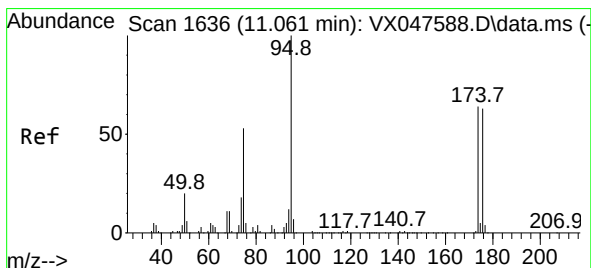
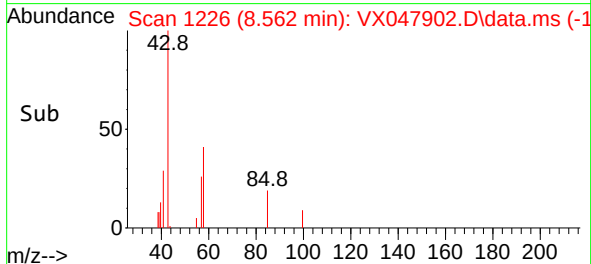
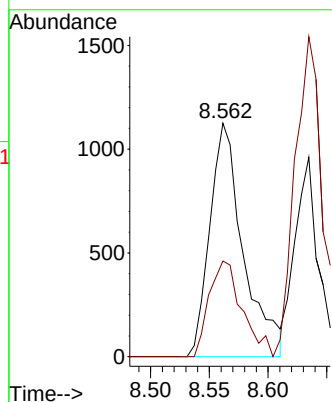
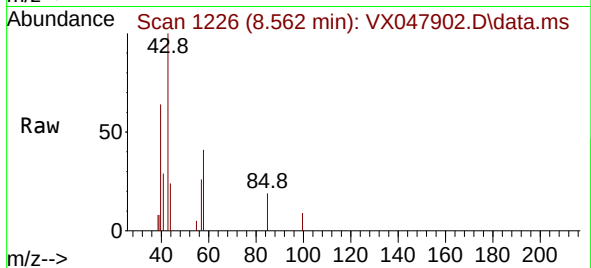




#51
4-Methyl-2-Pentanone
Concen: 0.905 ug/l
RT: 8.562 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

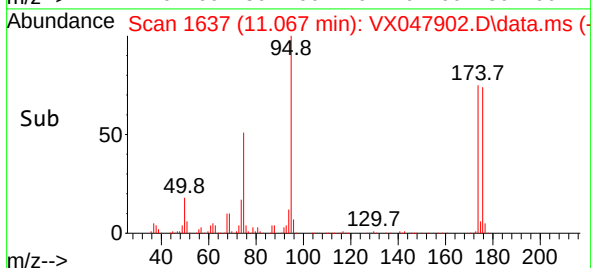
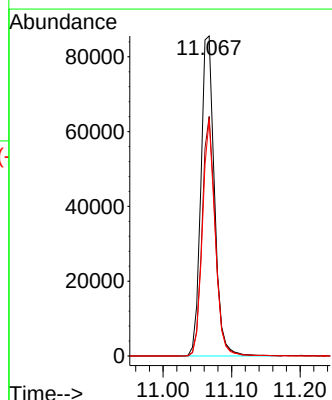
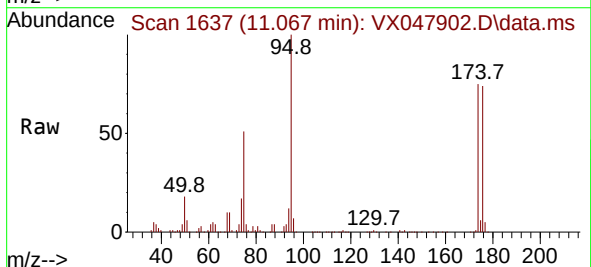
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

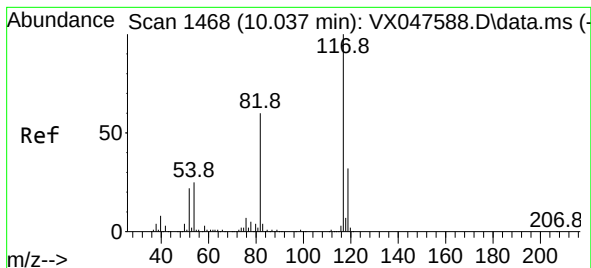
Tgt Ion: 43 Resp: 2222
Ion Ratio Lower Upper
43 100
58 40.4 30.3 45.5



#62
4-Bromofluorobenzene
Concen: 52.148 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 95 Resp: 118144
Ion Ratio Lower Upper
95 100
174 72.5 0.0 141.6
176 69.2 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: VX047902.D

Acq: 30 Sep 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-EB-20250923

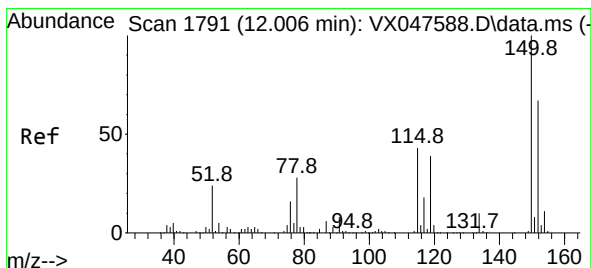
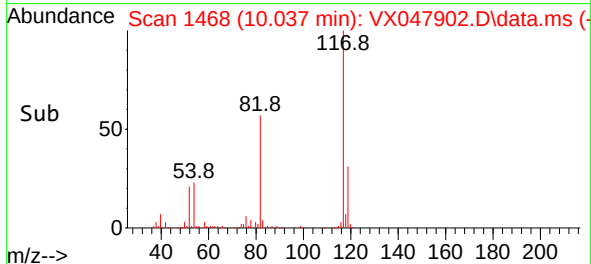
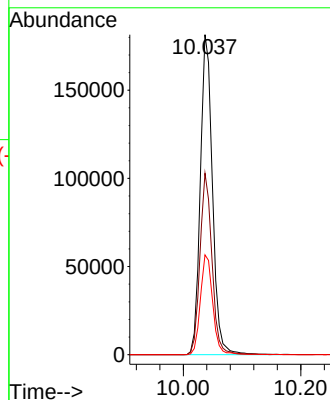
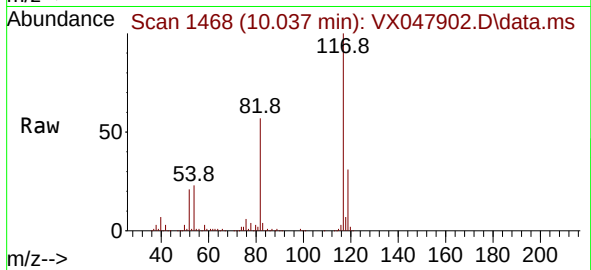
Tgt Ion:117 Resp: 260569

Ion Ratio Lower Upper

117 100

82 56.7 47.8 71.6

119 31.2 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.000 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

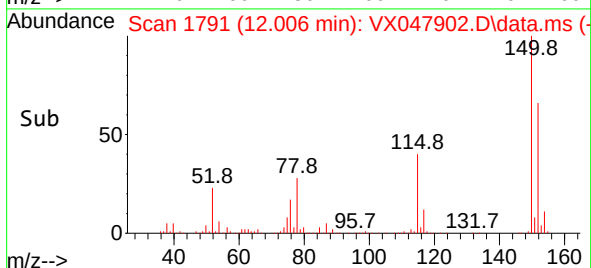
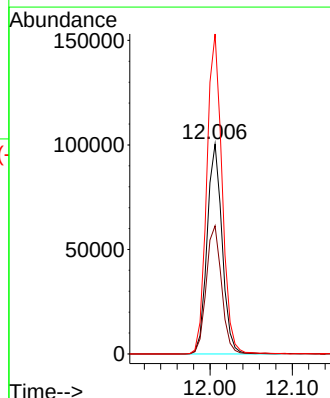
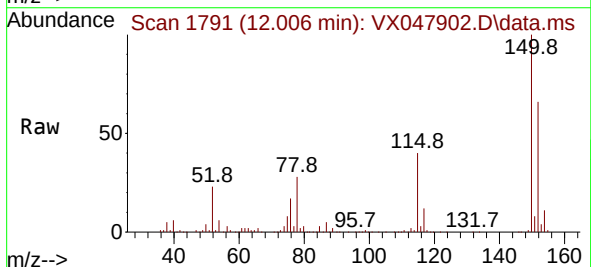
Tgt Ion:152 Resp: 127484

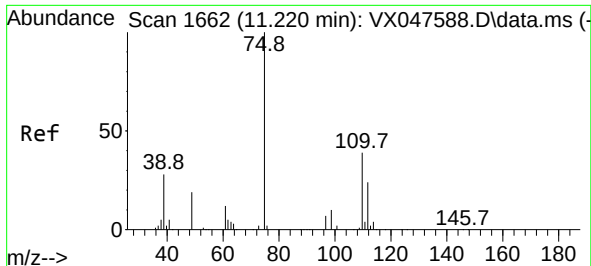
Ion Ratio Lower Upper

152 100

115 62.4 44.9 134.5

150 155.5 0.0 352.0

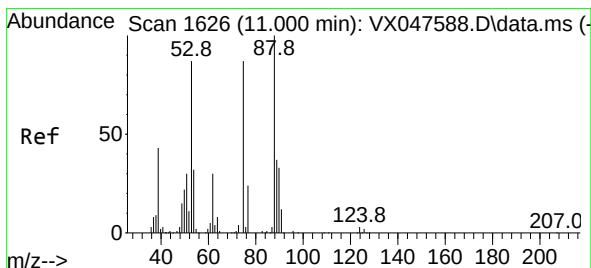
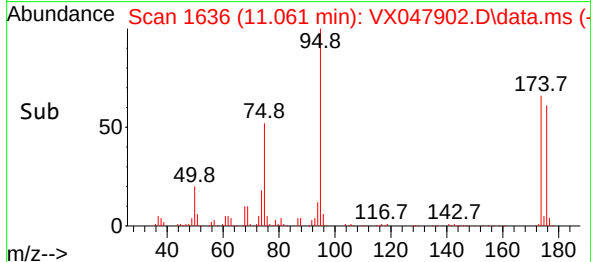
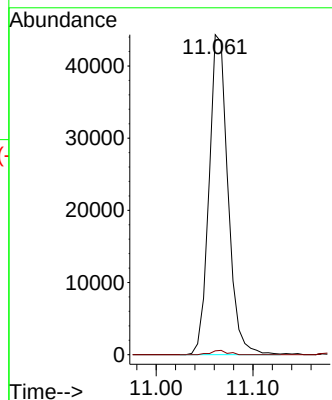
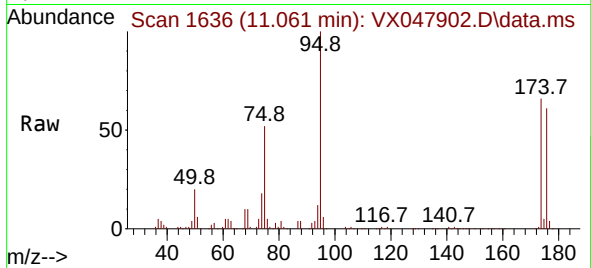




#76
1,2,3-Trichloropropane
Concen: 23.340 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

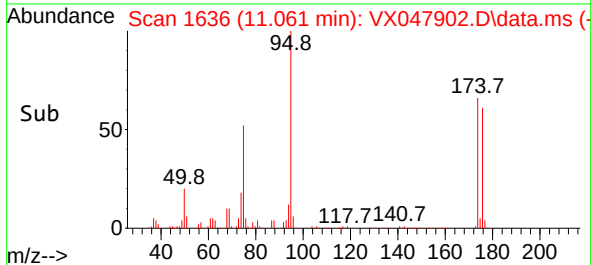
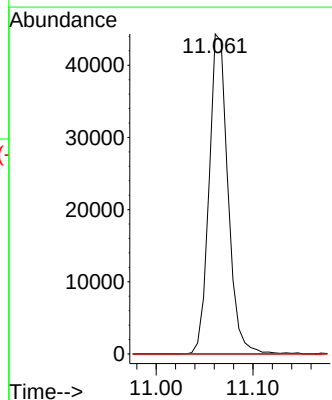
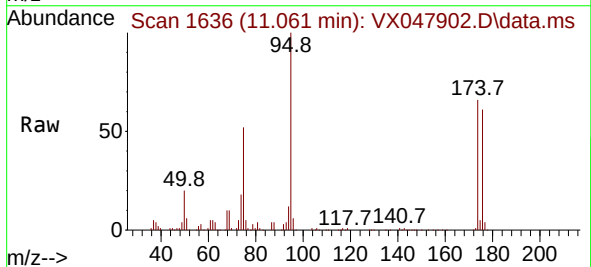
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

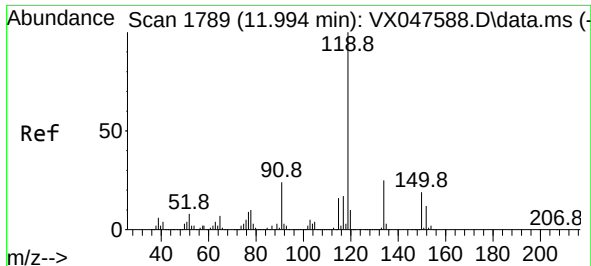
Tgt Ion: 75 Resp: 60244
Ion Ratio Lower Upper
75 100
77 1.2 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 59.520 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion: 75 Resp: 60244
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#

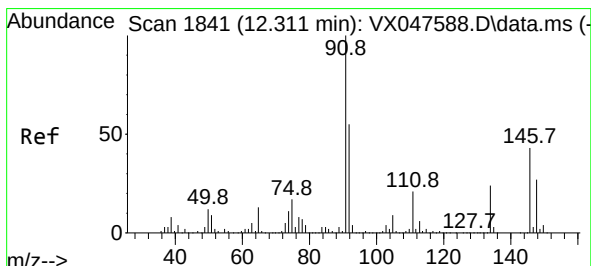
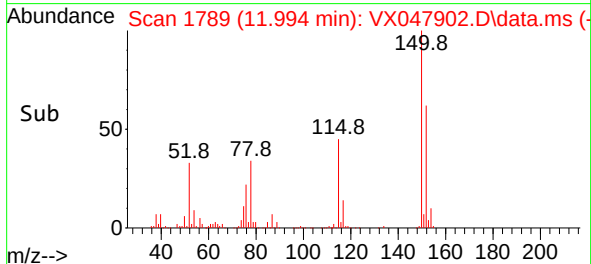
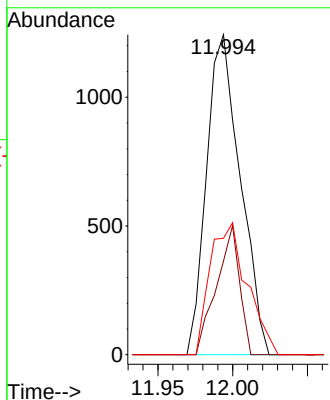
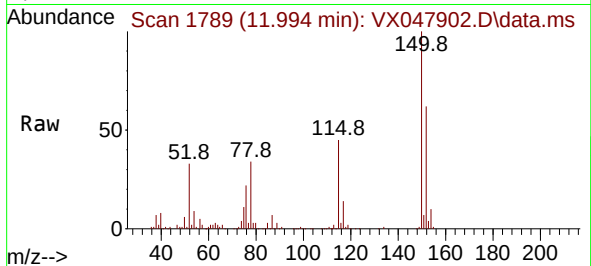




#86
p-Isopropyltoluene
Concen: 0.238 ug/l
RT: 11.994 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

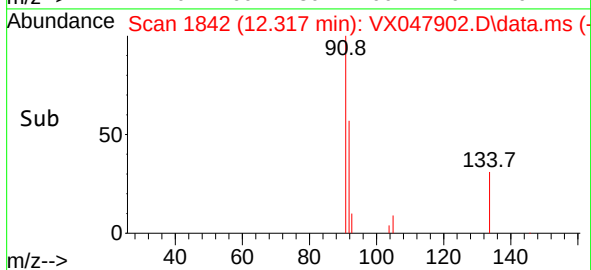
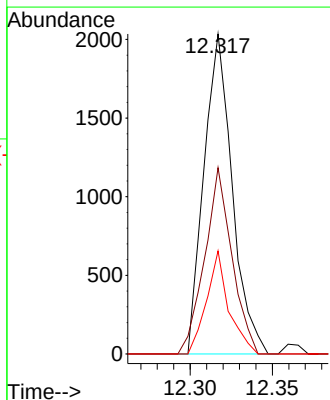
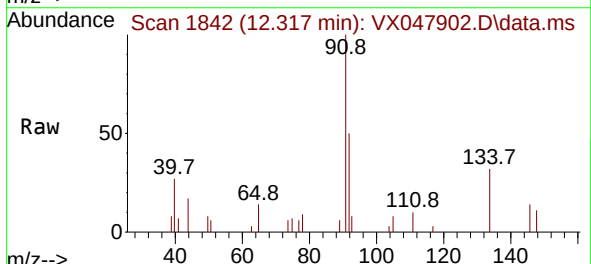
Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

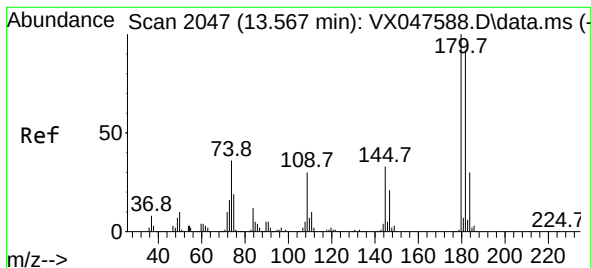
Tgt Ion:	119	Resp:	1953
Ion	Ratio	Lower	Upper
119	100		
134	27.4	12.6	37.8
91	45.1	12.6	37.6#



#89
n-Butylbenzene
Concen: 0.320 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion:	91	Resp:	2428
Ion	Ratio	Lower	Upper
91	100		
92	56.2	27.6	82.7
134	25.3	12.6	37.8





#93

1,2,4-Trichlorobenzene

Concen: 0.506 ug/l

RT: 13.567 min Scan# 2047

Delta R.T. -0.000 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

Instrument :

MSVOA_X

ClientSampleId :

BP-VPB-184-EB-20250923

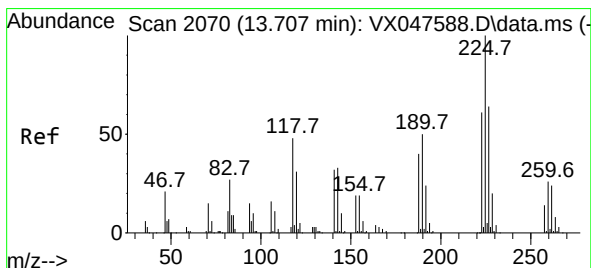
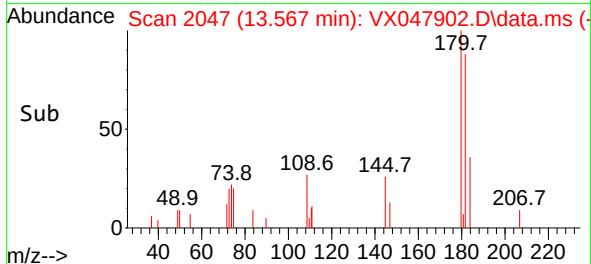
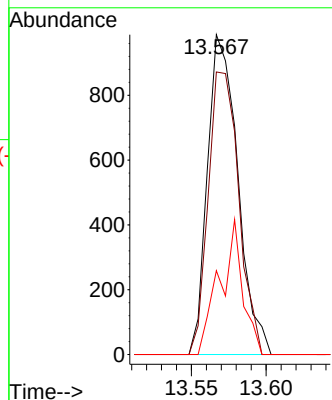
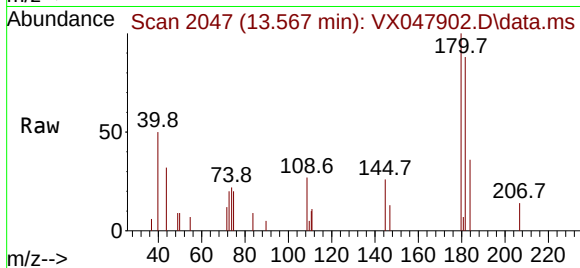
Tgt Ion:180 Resp: 1390

Ion Ratio Lower Upper

180 100

182 88.8 46.6 139.8

145 32.1 16.4 49.1



#94

Hexachlorobutadiene

Concen: 1.115 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047902.D

Acq: 30 Sep 2025 12:09

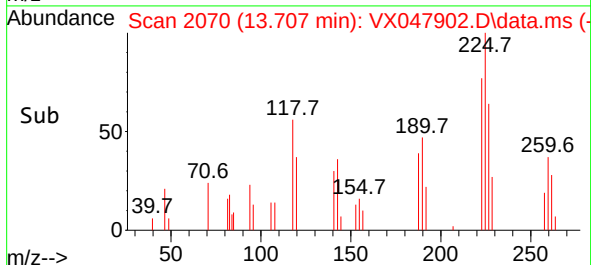
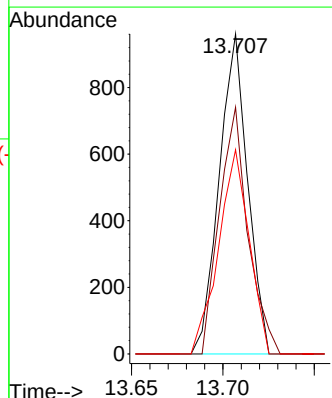
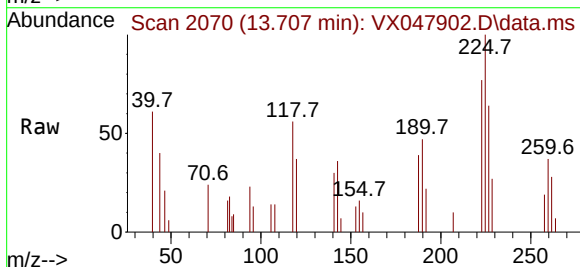
Tgt Ion:225 Resp: 1040

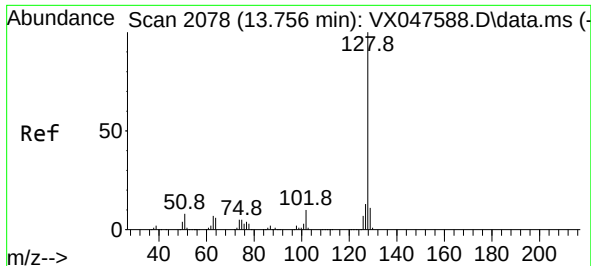
Ion Ratio Lower Upper

225 100

223 77.6 31.7 95.1

227 68.6 32.0 96.0

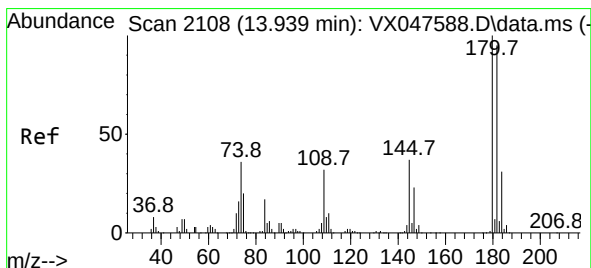
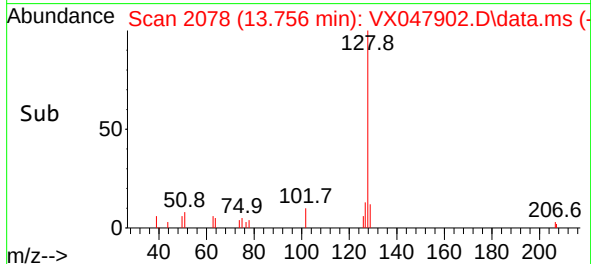
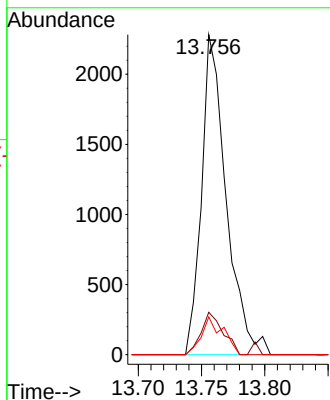
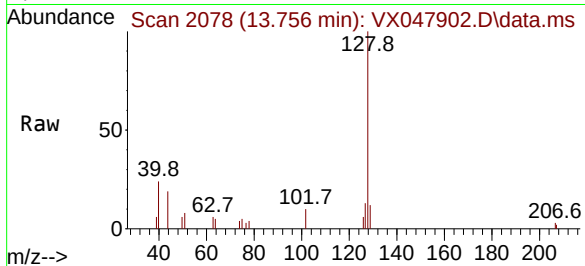




#95
Naphthalene
Concen: 0.370 ug/l
RT: 13.756 min Scan# 2078
Delta R.T. -0.000 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Instrument :
MSVOA_X
ClientSampleId :
BP-VPB-184-EB-20250923

Tgt Ion:	128	Resp:	3094
Ion Ratio	Lower	Upper	
128	100		
127	11.9	10.2	15.2
129	10.4	8.8	13.2



#96
1,2,3-Trichlorobenzene
Concen: 0.437 ug/l
RT: 13.945 min Scan# 2109
Delta R.T. 0.006 min
Lab File: VX047902.D
Acq: 30 Sep 2025 12:09

Tgt Ion:	180	Resp:	1117
Ion Ratio	Lower	Upper	
180	100		
182	100.4	47.6	142.8
145	35.5	17.9	53.7

