

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091825\
 Data File : VX047650.D
 Acq On : 18 Sep 2025 18:29
 Operator : JC/MD
 Sample : Q3095-25
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 21 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20250910

Quant Time: Sep 22 03:42:16 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)

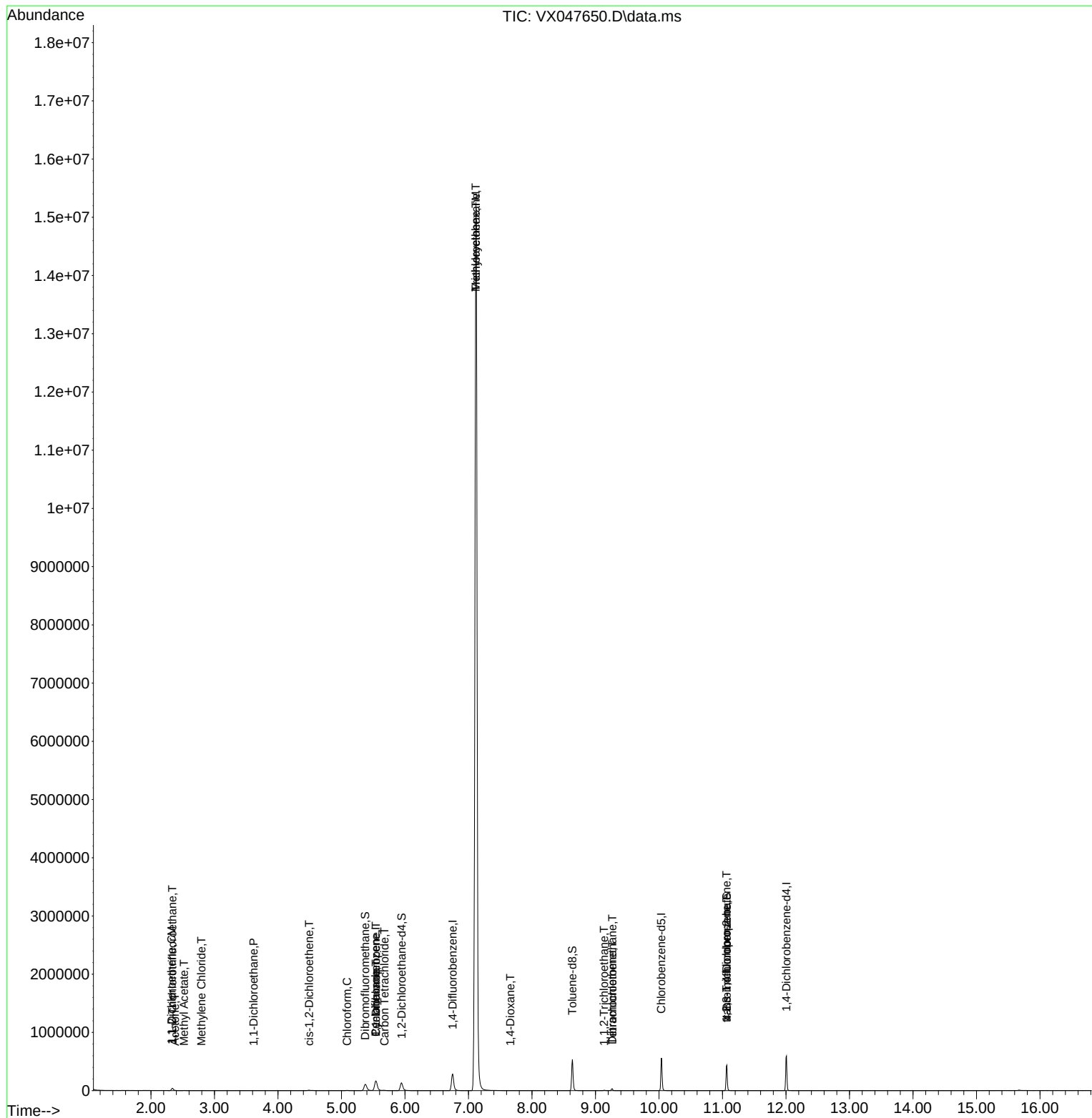
Internal Standards						
1) Pentafluorobenzene	5.538	168	167095	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	311560	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	253664	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	122561	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	142956	53.748	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 107.500%		
35) Dibromofluoromethane	5.373	113	106335	50.890	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 101.780%		
50) Toluene-d8	8.635	98	323179	44.699	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 89.400%#		
62) 4-Bromofluorobenzene	11.067	95	128276	46.749	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 93.500%		
Target Compounds						Qvalue
9) 1,1,2-Trichlorotrifluo...	2.337	101	15734	8.141	ug/l	98
12) 1,1-Dichloroethene	2.325	96	3873	1.951	ug/l	85
16) Acetone	2.380	43	2394	2.070	ug/l #	44
18) Methyl Acetate	2.520	43	886	0.344	ug/l #	54
20) Methylene Chloride	2.794	84	670	0.274	ug/l #	88
24) 1,1-Dichloroethane	3.617	63	1267	0.300	ug/l #	81
27) cis-1,2-Dichloroethene	4.489	96	4811	1.838	ug/l	86
30) Chloroform	5.087	83	3435	0.806	ug/l	94
31) Cyclohexane	5.544	56	3487	0.992	ug/l #	1
36) 1,1-Dichloropropene	5.544	75	14494	4.747	ug/l #	51
38) Carbon Tetrachloride	5.678	117	4273	1.288	ug/l #	89
39) Methylcyclohexane	7.117	83	77668	22.410	ug/l #	1
44) Trichloroethene	7.117	130	6398112	2853.770	ug/l	98
49) 1,4-Dioxane	7.659	88	375	13.894	ug/l #	51
55) 1,1,2-Trichloroethane	9.135	97	2123	0.964	ug/l	95
60) Dibromochloromethane	9.263	129	6511	2.565	ug/l #	11
64) Tetrachloroethene	9.263	164	6179	3.737	ug/l	92
76) 1,2,3-Trichloropropane	11.061	75	66881	26.952	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	66881	68.732	ug/l #	8

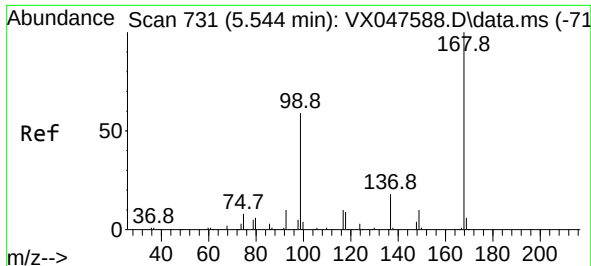
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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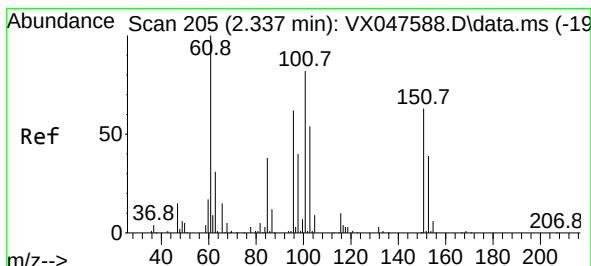
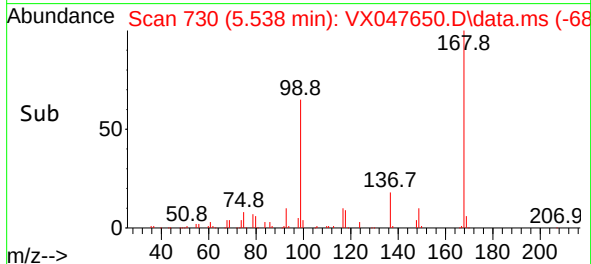
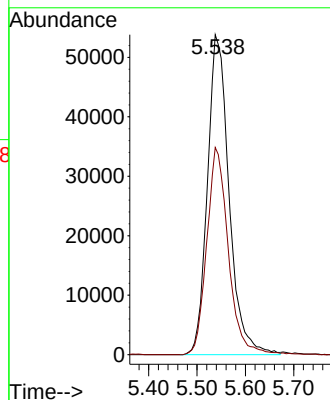
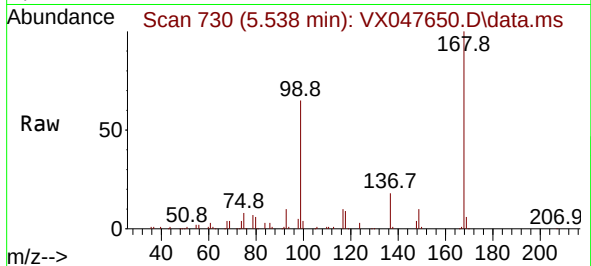




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

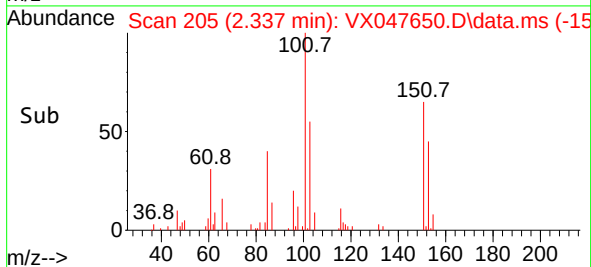
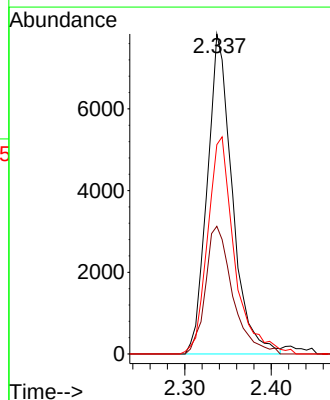
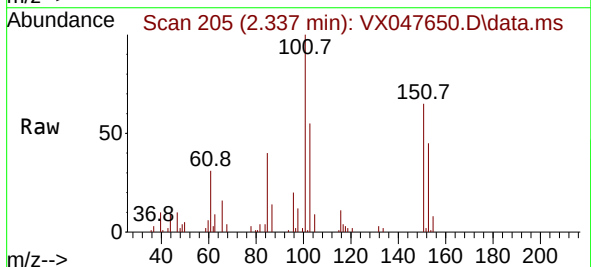
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

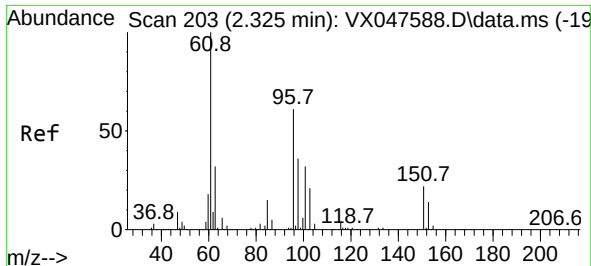
Tgt Ion:168 Resp: 167095
Ion Ratio Lower Upper
168 100
99 64.7 48.8 73.2



#9
1,1,2-Trichlorotrifluoroethane
Concen: 8.141 ug/l
RT: 2.337 min Scan# 205
Delta R.T. 0.000 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion:101 Resp: 15734
Ion Ratio Lower Upper
101 100
85 43.3 35.5 53.3
151 72.5 59.4 89.0





#12

1,1-Dichloroethene

Concen: 1.951 ug/l

RT: 2.325 min Scan# 203

Delta R.T. 0.000 min

Lab File: VX047650.D

Acq: 18 Sep 2025 18:29

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20250910

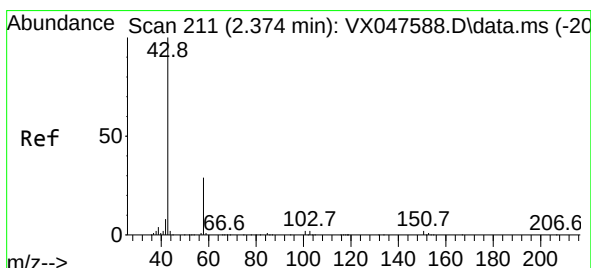
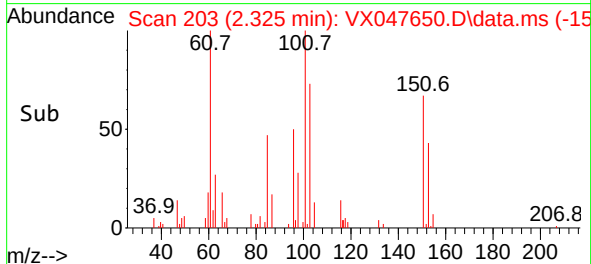
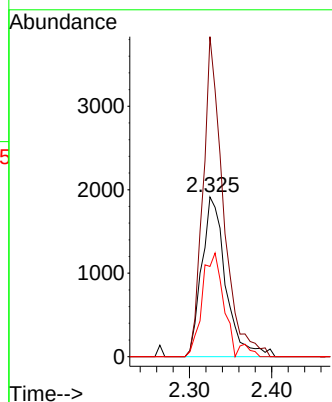
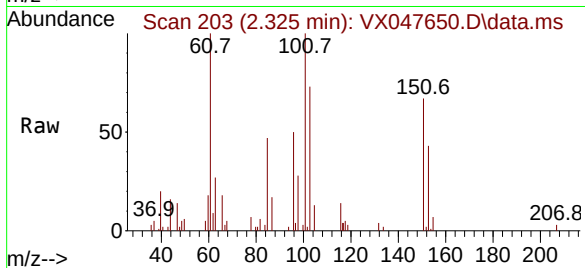
Tgt Ion: 96 Resp: 3873

Ion Ratio Lower Upper

96 100

61 186.5 131.0 196.6

98 52.6 47.7 71.5



#16

Acetone

Concen: 2.070 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX047650.D

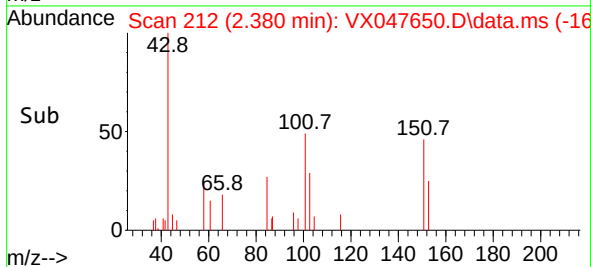
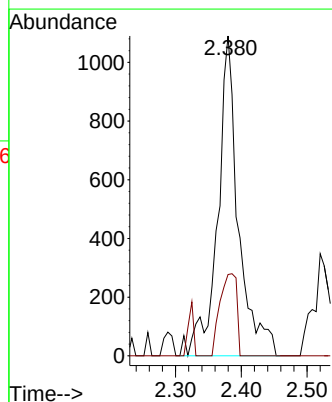
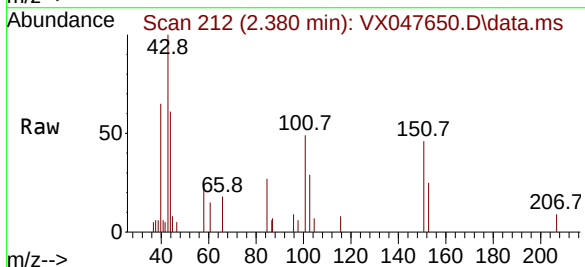
Acq: 18 Sep 2025 18:29

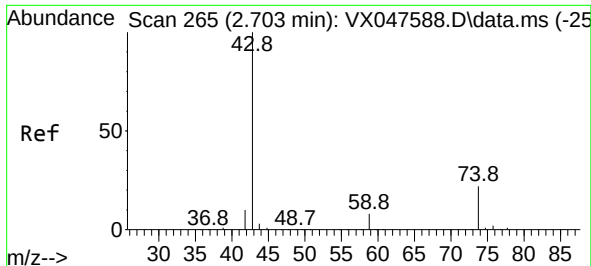
Tgt Ion: 43 Resp: 2394

Ion Ratio Lower Upper

43 100

58 59.1 23.4 35.0#

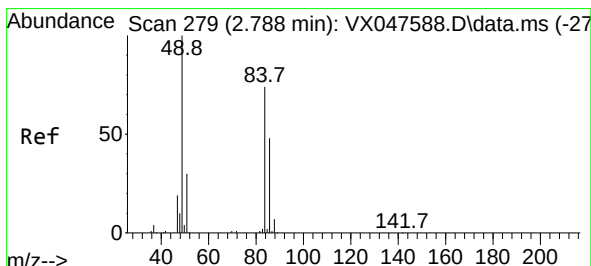
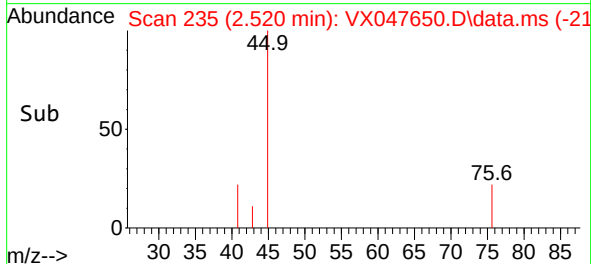
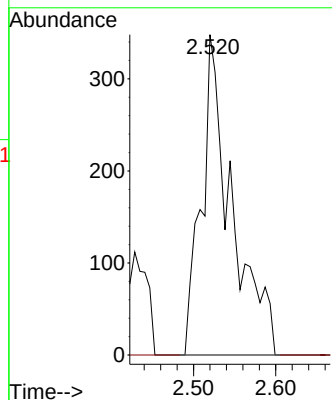
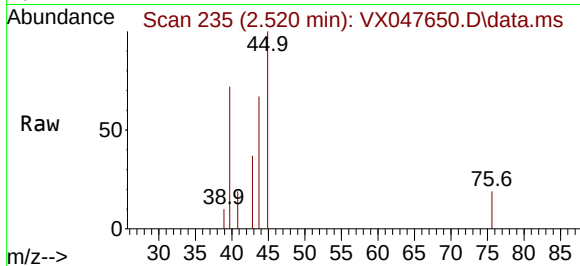




#18
Methyl Acetate
Concen: 0.344 ug/l
RT: 2.520 min Scan# 21
Delta R.T. -0.183 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

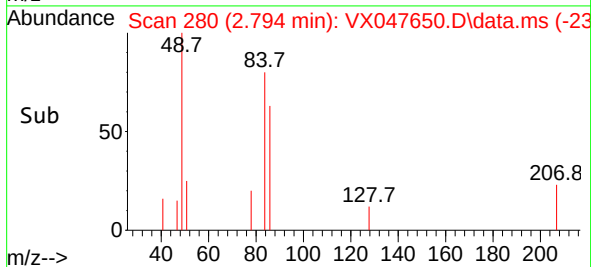
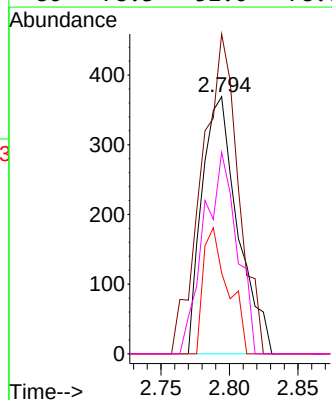
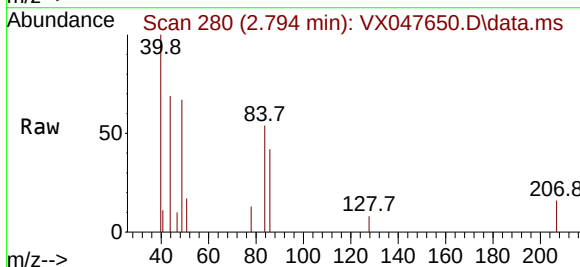
Instrument :
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ClientSampleId :
DUP02-20250910

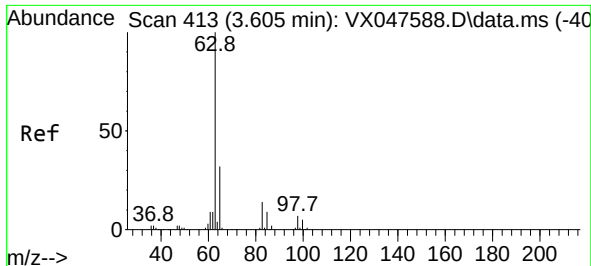
Tgt Ion: 43 Resp: 886
Ion Ratio Lower Upper
43 100
74 0.0 17.4 26.2#



#20
Methylene Chloride
Concen: 0.274 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 84 Resp: 670
Ion Ratio Lower Upper
84 100
49 124.4 108.6 162.8
51 31.4 32.6 48.8#
86 78.3 52.0 78.0#

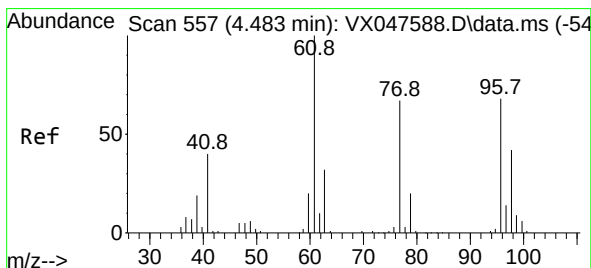
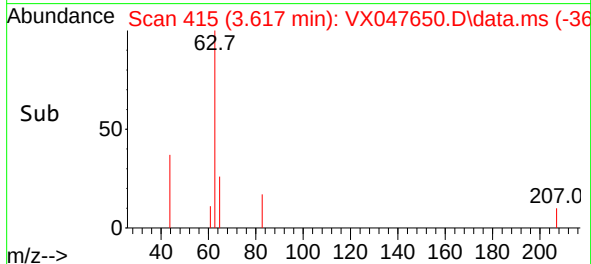
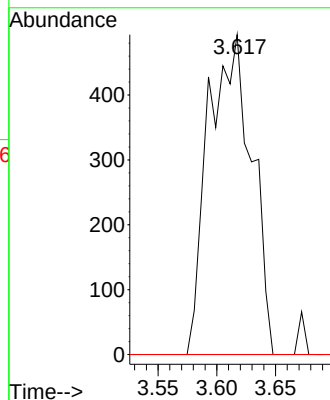
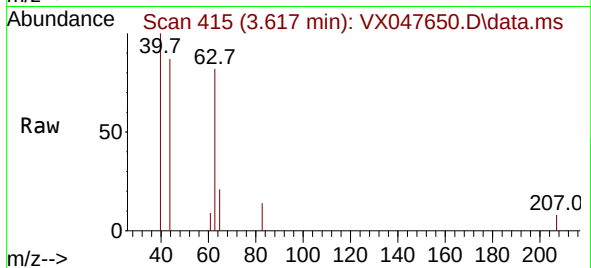




#24
 1,1-Dichloroethane
 Concen: 0.300 ug/l
 RT: 3.617 min Scan# 413
 Delta R.T. 0.012 min
 Lab File: VX047650.D
 Acq: 18 Sep 2025 18:29

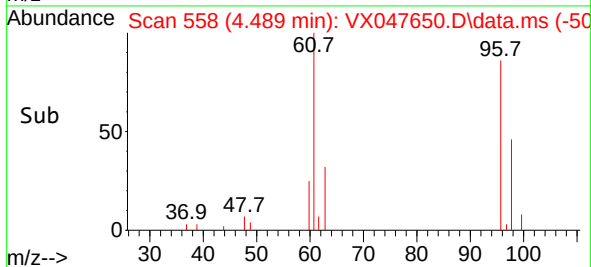
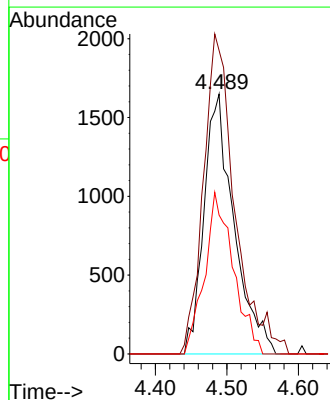
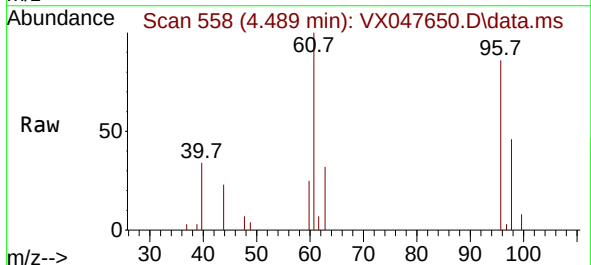
Instrument :
 MSVOA_X
 ClientSampleId :
 DUP02-20250910

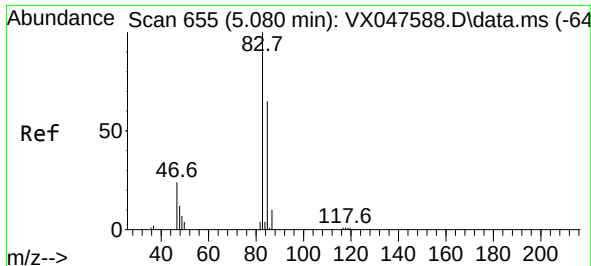
Tgt Ion: 63 Resp: 1267
 Ion Ratio Lower Upper
 63 100
 98 0.0 3.8 11.2#
 100 0.0 2.3 6.9#



#27
 cis-1,2-Dichloroethene
 Concen: 1.838 ug/l
 RT: 4.489 min Scan# 558
 Delta R.T. 0.006 min
 Lab File: VX047650.D
 Acq: 18 Sep 2025 18:29

Tgt Ion: 96 Resp: 4811
 Ion Ratio Lower Upper
 96 100
 61 128.6 0.0 303.2
 98 59.5 0.0 127.8

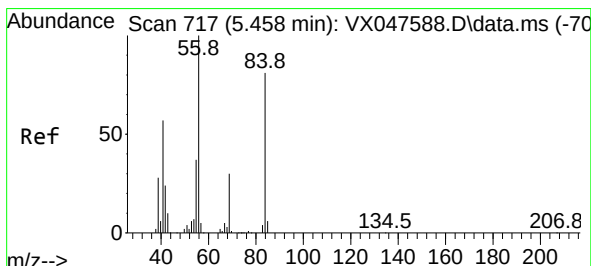
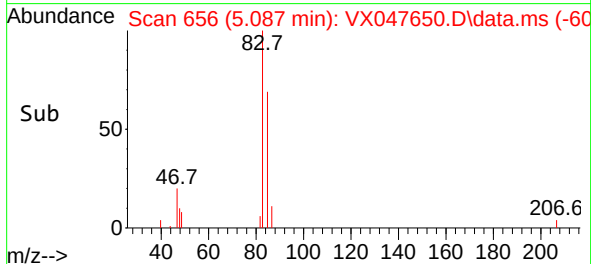
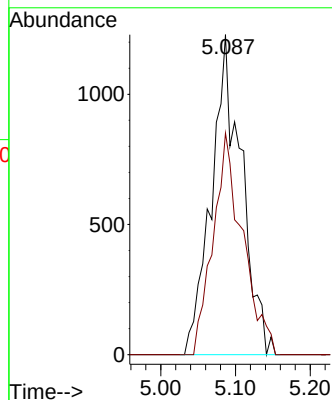
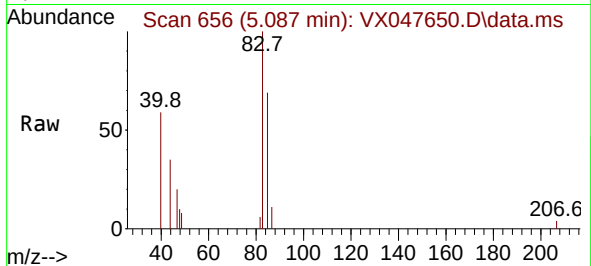




#30
Chloroform
Concen: 0.806 ug/l
RT: 5.087 min Scan# 61
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

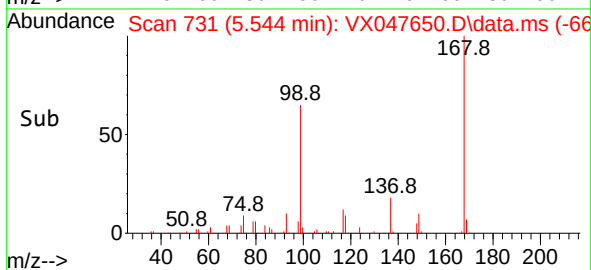
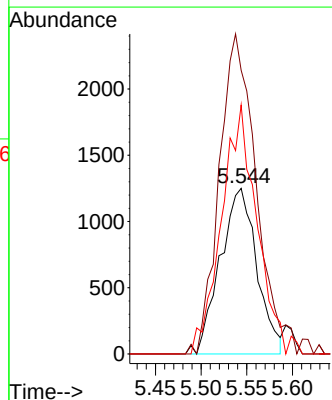
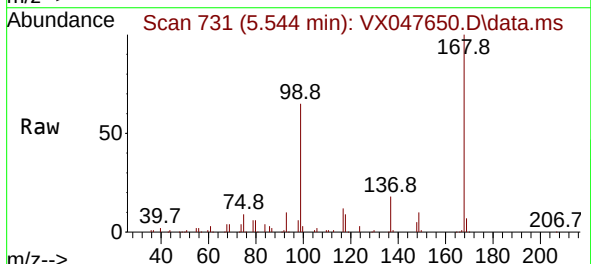
Instrument :
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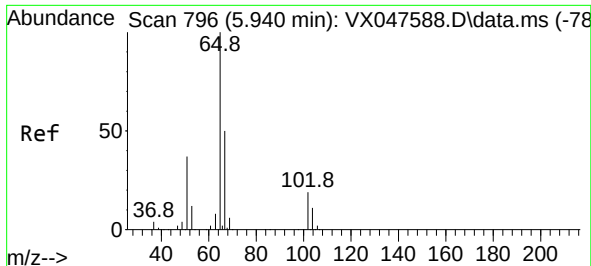
Tgt Ion: 83 Resp: 3435
Ion Ratio Lower Upper
83 100
85 69.2 51.8 77.6



#31
Cyclohexane
Concen: 0.992 ug/l
RT: 5.544 min Scan# 731
Delta R.T. 0.085 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 56 Resp: 3487
Ion Ratio Lower Upper
56 100
69 171.2 23.8 35.8#
84 150.3 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 53.748 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047650.D

Acq: 18 Sep 2025 18:29

Instrument :

MSVOA_X

ClientSampleId :

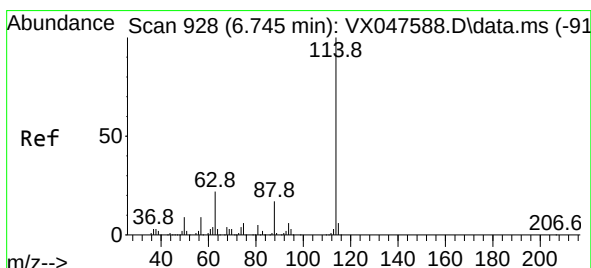
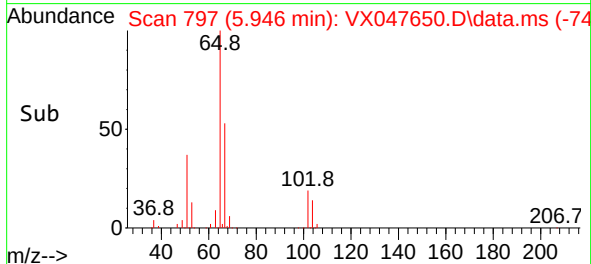
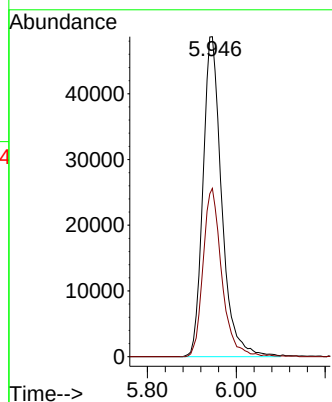
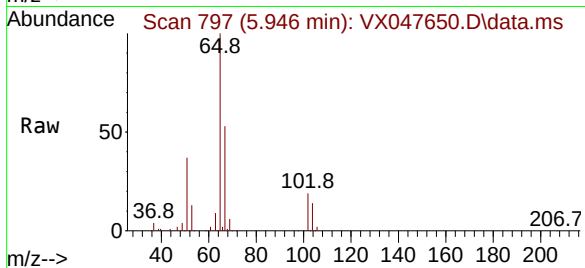
DUP02-20250910

Tgt Ion: 65 Resp: 142956

Ion Ratio Lower Upper

65 100

67 52.3 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: VX047650.D

Acq: 18 Sep 2025 18:29

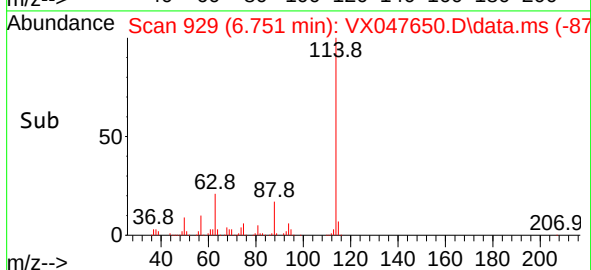
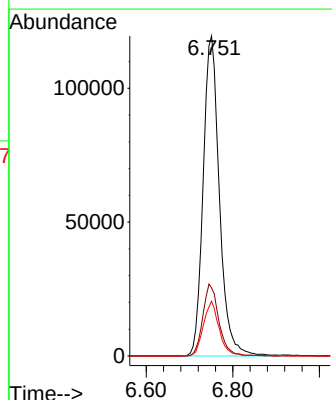
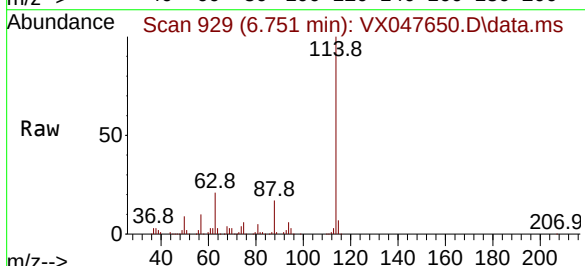
Tgt Ion: 114 Resp: 311560

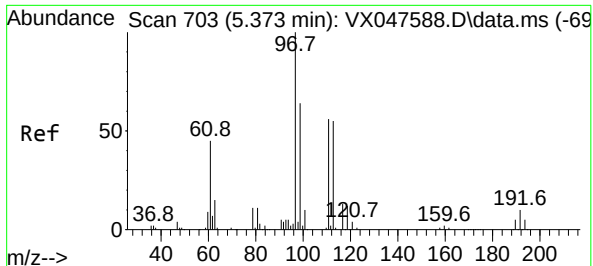
Ion Ratio Lower Upper

114 100

63 21.3 0.0 44.0

88 17.1 0.0 34.2

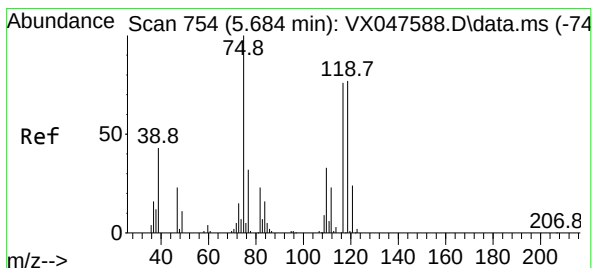
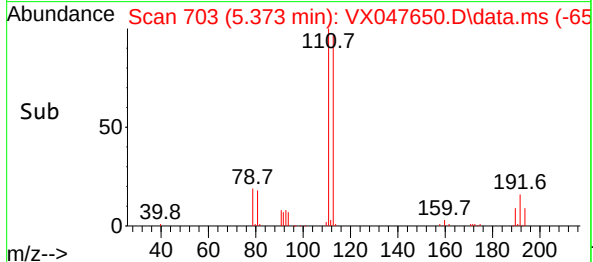
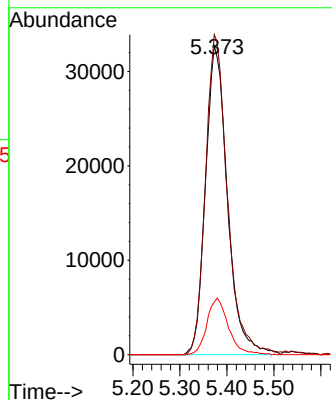
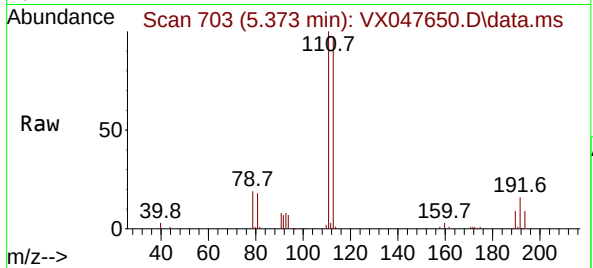




#35
Dibromofluoromethane
Concen: 50.890 ug/l
RT: 5.373 min Scan# 703
Delta R.T. 0.000 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

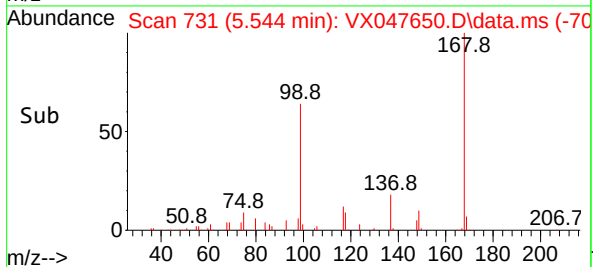
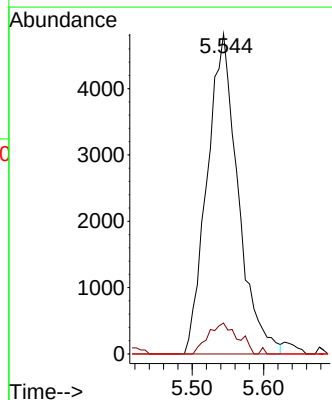
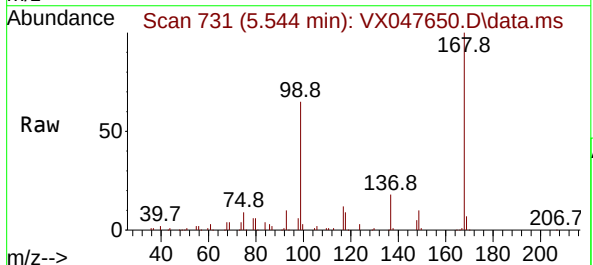
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MSVOA_X
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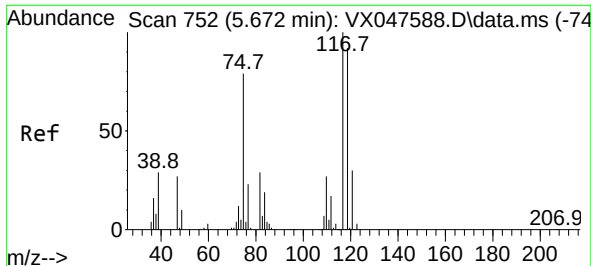
Tgt Ion:113 Resp: 106335
Ion Ratio Lower Upper
113 100
111 102.5 80.9 121.3
192 17.9 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.747 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 75 Resp: 14494
Ion Ratio Lower Upper
75 100
110 9.2 16.7 50.1#
77 0.0 24.3 36.5#

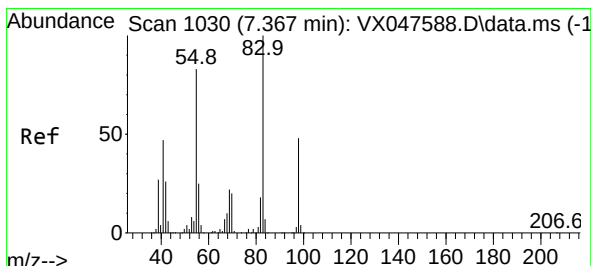
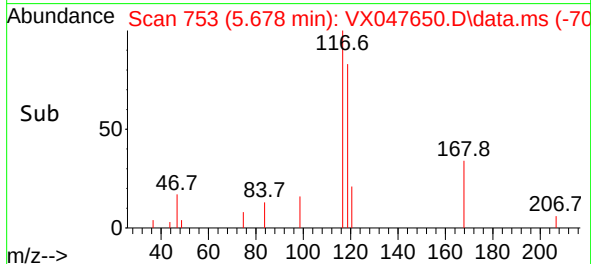
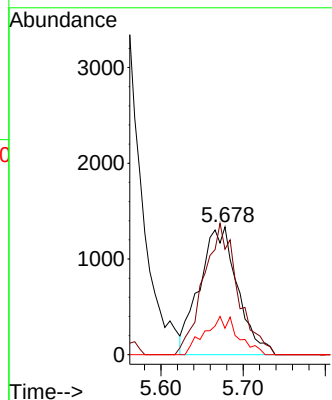
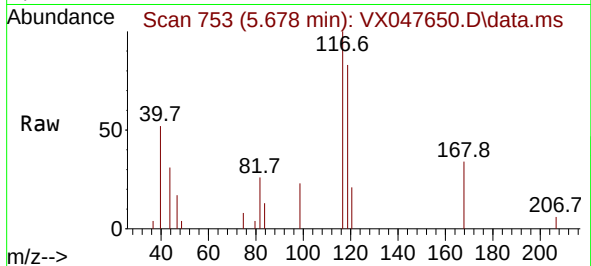




#38
Carbon Tetrachloride
Concen: 1.288 ug/l
RT: 5.678 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

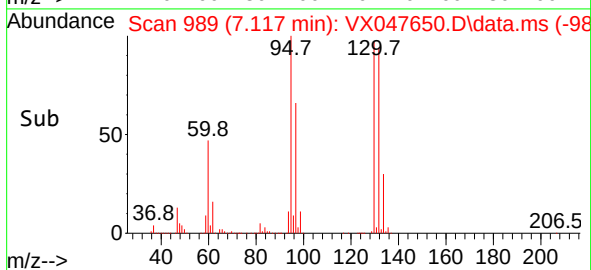
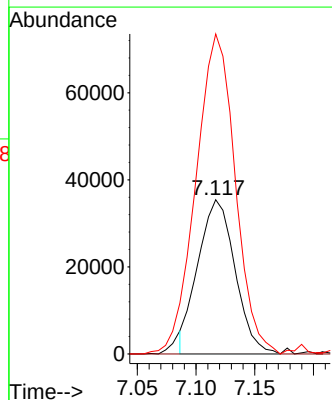
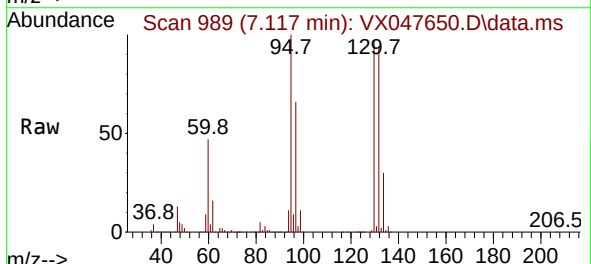
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

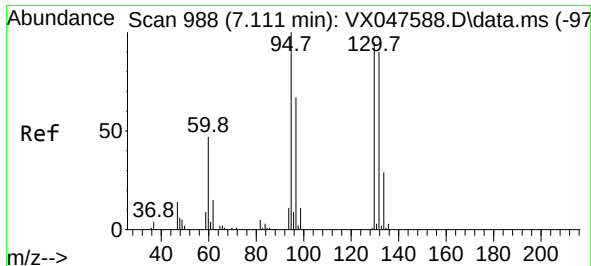
Tgt Ion:117 Resp: 4273
Ion Ratio Lower Upper
117 100
119 82.5 73.4 110.2
121 20.7 23.8 35.6#



#39
Methylcyclohexane
Concen: 22.410 ug/l
RT: 7.117 min Scan# 989
Delta R.T. -0.250 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 83 Resp: 77668
Ion Ratio Lower Upper
83 100
55 0.0 66.4 99.6#
98 312.4 38.1 57.1#

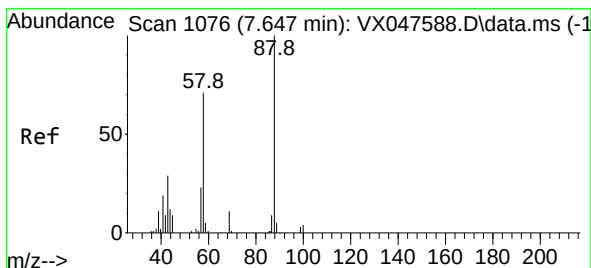
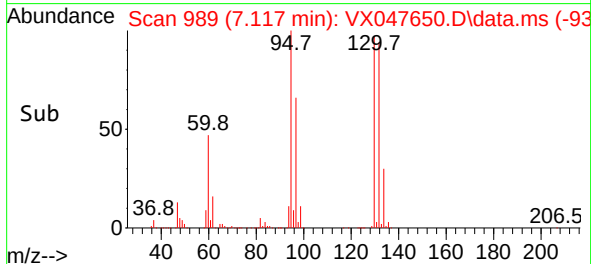
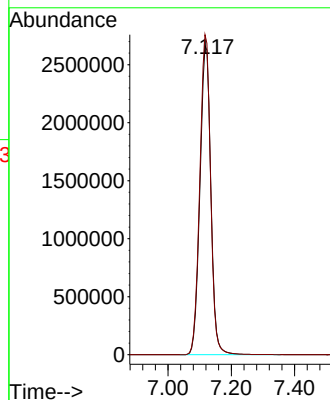
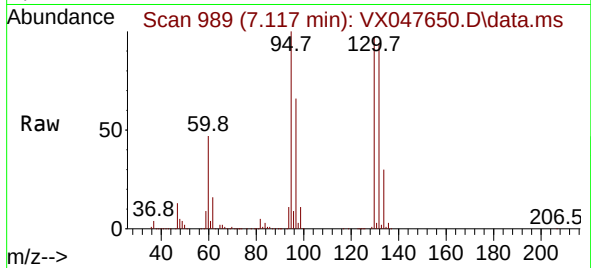




#44
Trichloroethene
Concen: 2853.770 ug/l
RT: 7.117 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

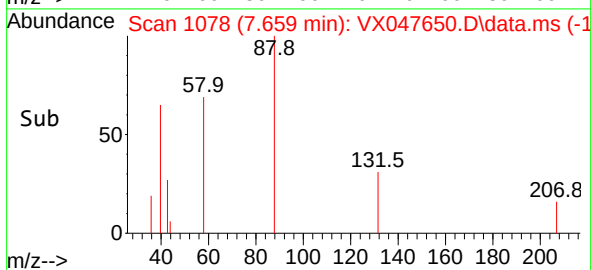
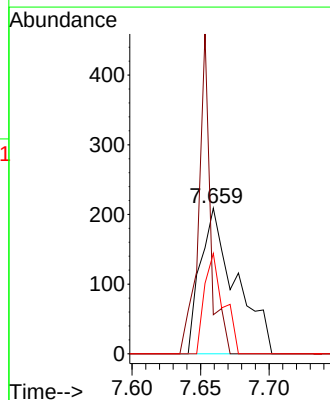
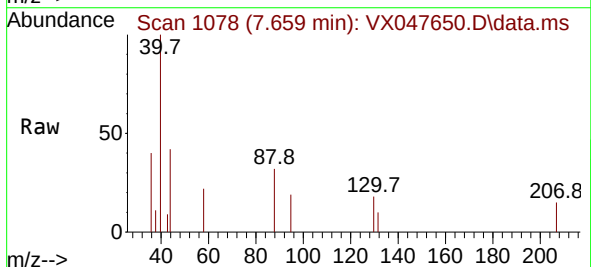
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

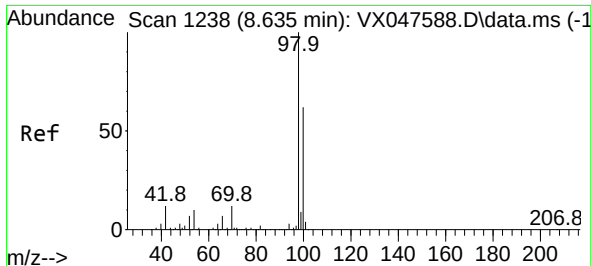
Tgt Ion:130 Resp: 6398112
Ion Ratio Lower Upper
130 100
95 103.6 0.0 210.8



#49
1,4-Dioxane
Concen: 13.894 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 88 Resp: 375
Ion Ratio Lower Upper
88 100
43 74.1 30.2 45.2#
58 37.3 59.5 89.3#

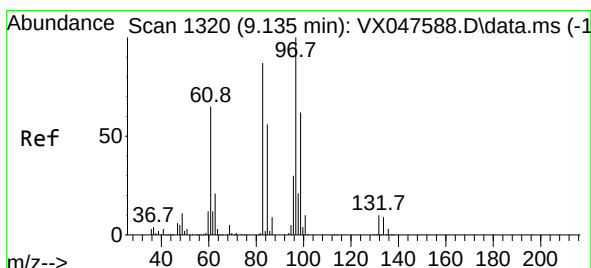
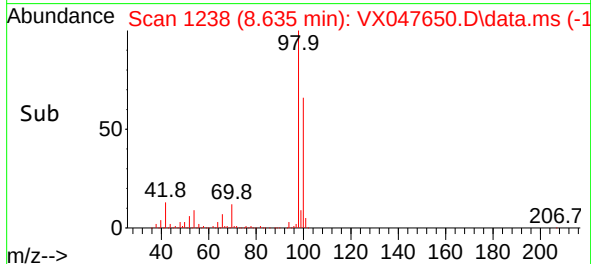
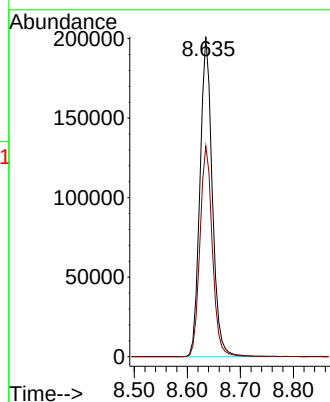
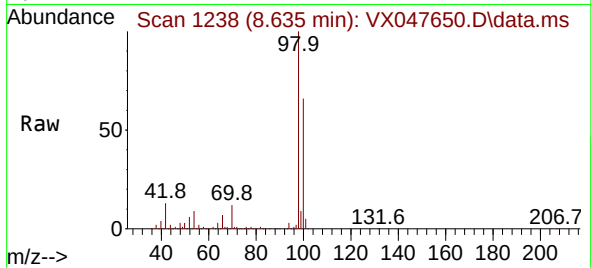




#50
Toluene-d8
Concen: 44.699 ug/l
RT: 8.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

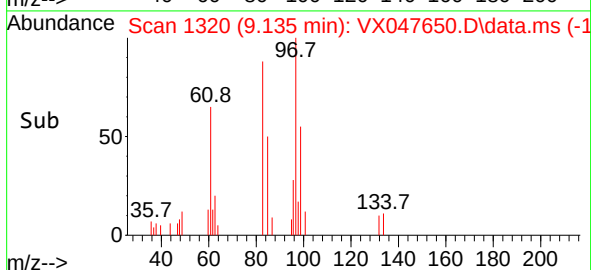
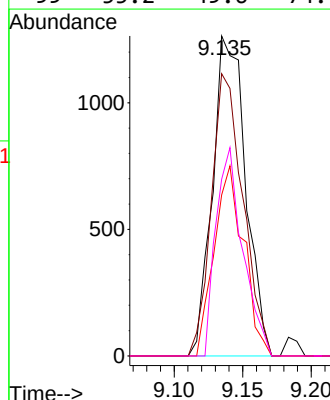
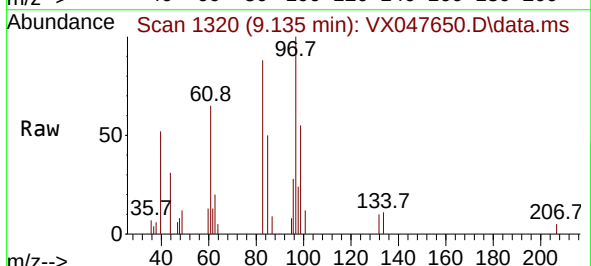
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

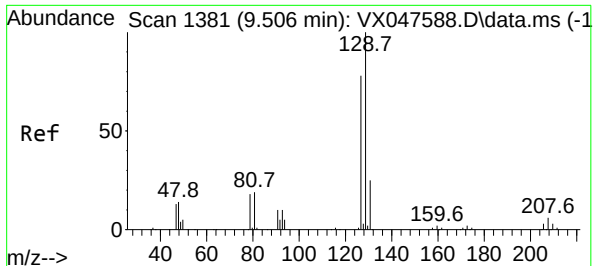
Tgt Ion: 98 Resp: 323179
Ion Ratio Lower Upper
98 100
100 66.5 53.0 79.4



#55
1,1,2-Trichloroethane
Concen: 0.964 ug/l
RT: 9.135 min Scan# 1320
Delta R.T. 0.000 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 97 Resp: 2123
Ion Ratio Lower Upper
97 100
83 88.2 69.6 104.4
85 50.3 45.0 67.6
99 55.2 49.6 74.4

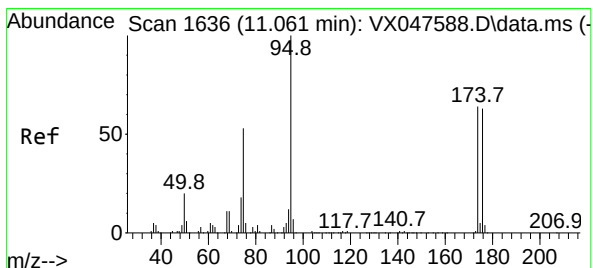
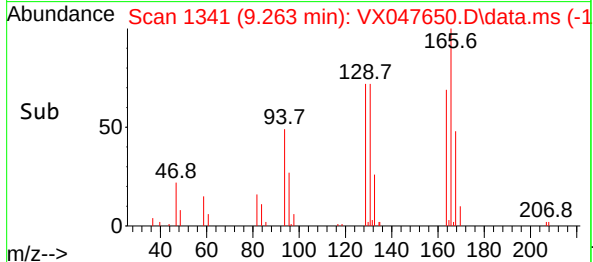
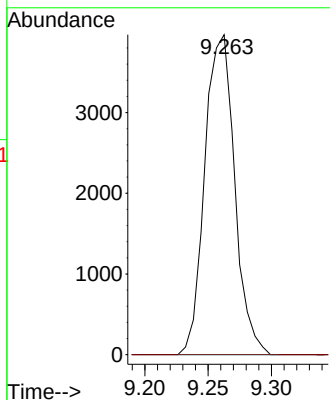
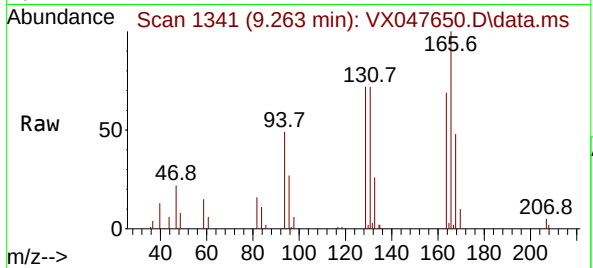




#60
Dibromochloromethane
Concen: 2.565 ug/l
RT: 9.263 min Scan# 11
Delta R.T. -0.244 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

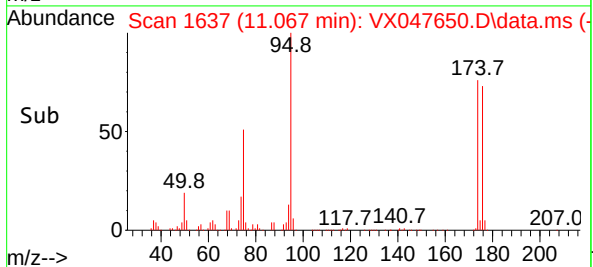
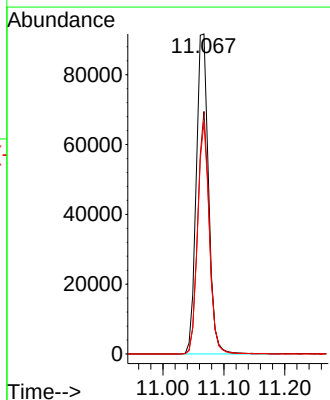
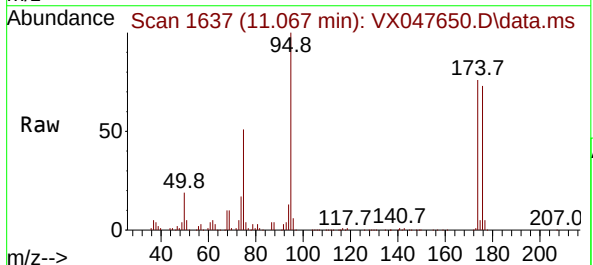
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

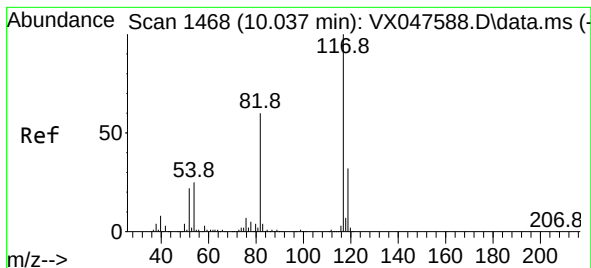
Tgt Ion:129 Resp: 6511
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 46.749 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion: 95 Resp: 128276
Ion Ratio Lower Upper
95 100
174 70.7 0.0 141.6
176 68.8 0.0 138.4

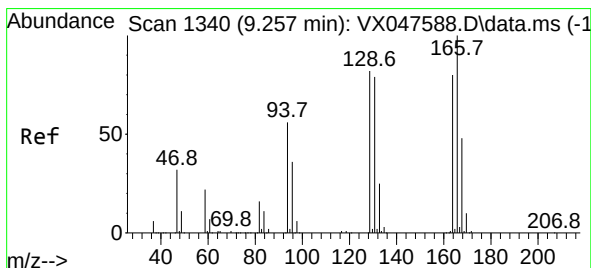
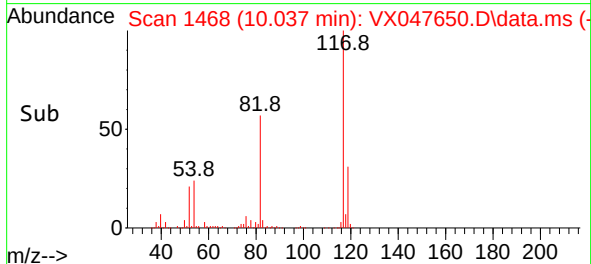
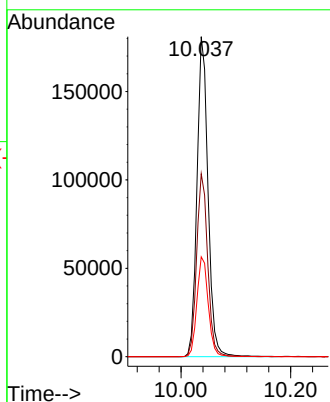
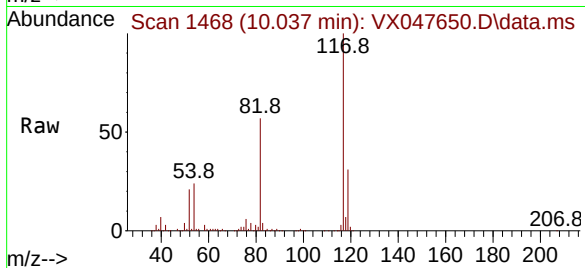




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. 0.000 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

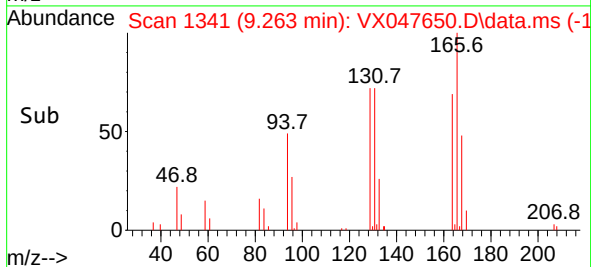
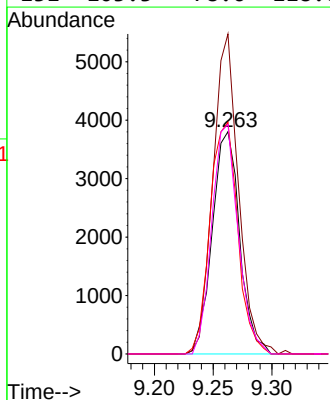
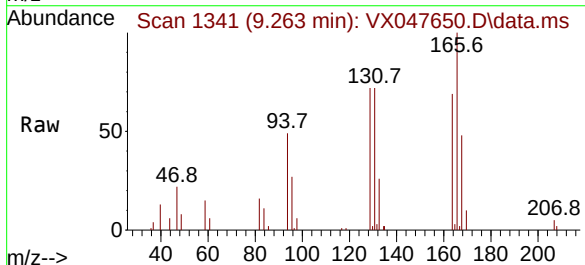
Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910

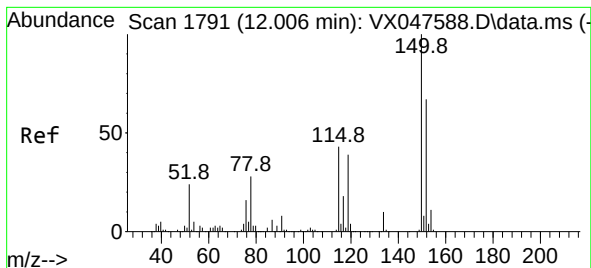
Tgt Ion:117 Resp: 253664
Ion Ratio Lower Upper
117 100
82 57.1 47.8 71.6
119 31.2 25.2 37.8



#64
Tetrachloroethene
Concen: 3.737 ug/l
RT: 9.263 min Scan# 1341
Delta R.T. 0.006 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Tgt Ion:164 Resp: 6179
Ion Ratio Lower Upper
164 100
166 144.0 100.2 150.2
129 104.3 81.8 122.6
131 103.3 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: VX047650.D

Acq: 18 Sep 2025 18:29

Instrument :

MSVOA_X

ClientSampleId :

DUP02-20250910

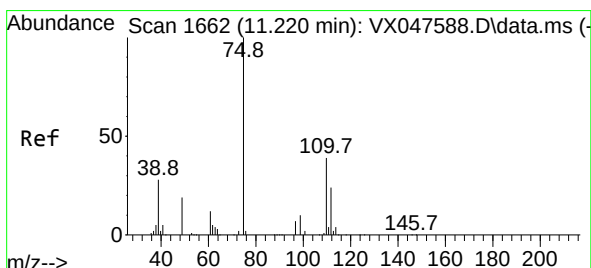
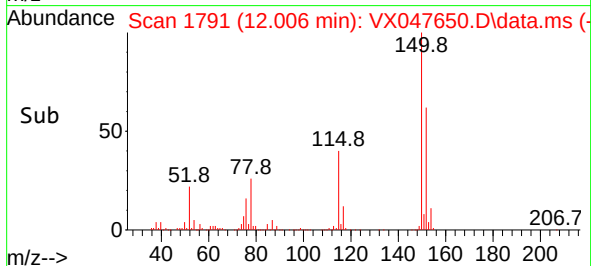
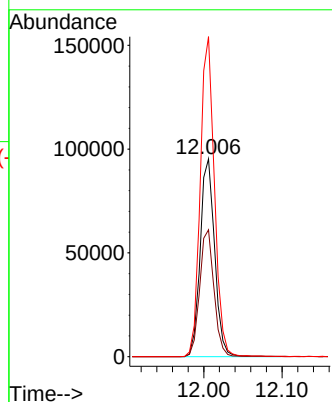
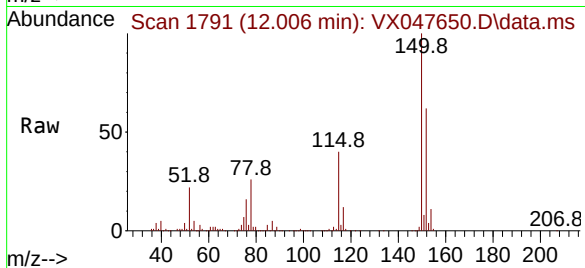
Tgt Ion:152 Resp: 122561

Ion Ratio Lower Upper

152 100

115 63.4 44.9 134.5

150 158.5 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 26.952 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.158 min

Lab File: VX047650.D

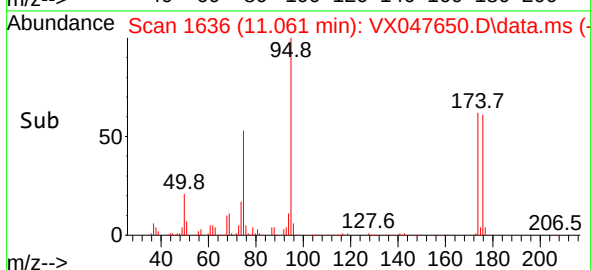
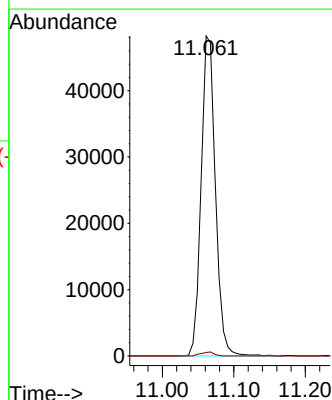
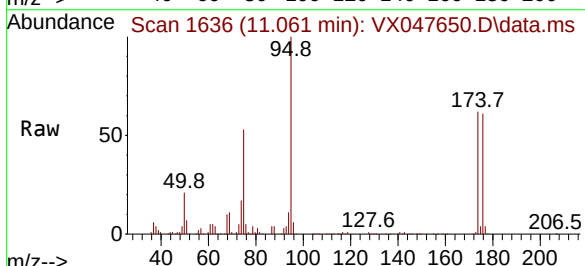
Acq: 18 Sep 2025 18:29

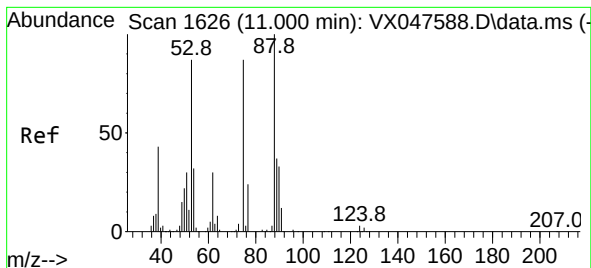
Tgt Ion: 75 Resp: 66881

Ion Ratio Lower Upper

75 100

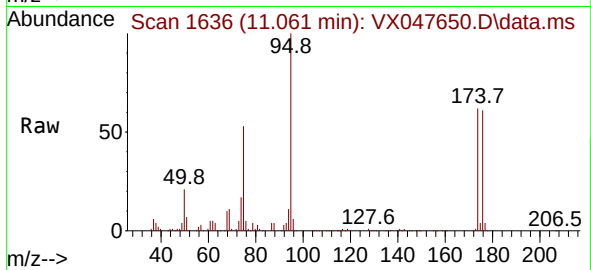
77 1.2 18.8 56.4#





#81
trans-1,4-Dichloro-2-butene
Concen: 68.732 ug/l
RT: 11.061 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX047650.D
Acq: 18 Sep 2025 18:29

Instrument :
MSVOA_X
ClientSampleId :
DUP02-20250910



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

