

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091825\
 Data File : VX047649.D
 Acq On : 18 Sep 2025 18:08
 Operator : JC/MD
 Sample : Q3095-24
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW178I-20250910

Quant Time: Sep 22 03:41:44 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)

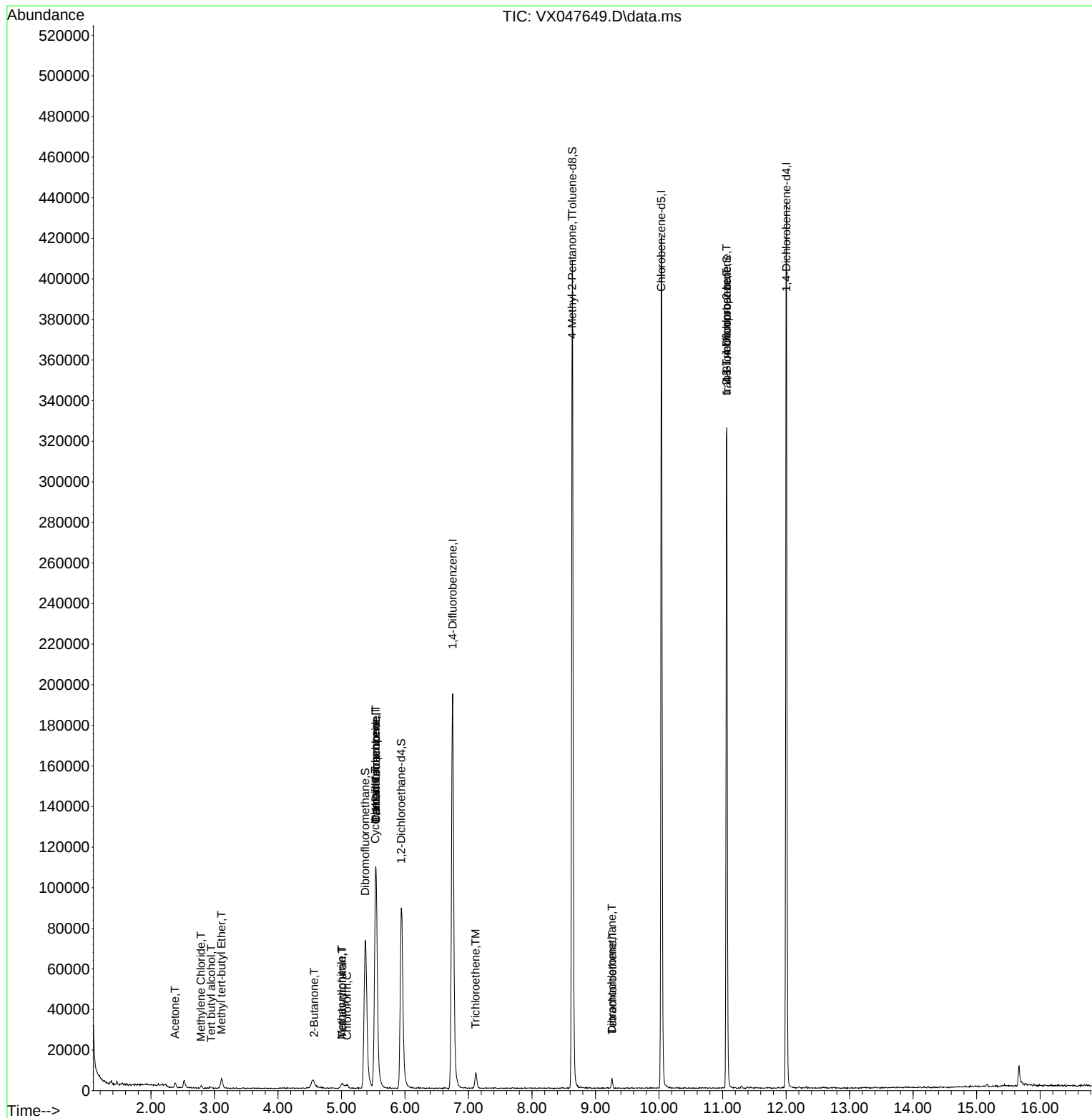
Internal Standards						
1) Pentafluorobenzene	5.538	168	110217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.751	114	210734	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	190251	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	91199	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	99338	56.623	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	113.240%
35) Dibromofluoromethane	5.373	113	72961	51.625	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	103.240%
50) Toluene-d8	8.635	98	248250	50.764	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	101.520%
62) 4-Bromofluorobenzene	11.067	95	96032	51.743	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	103.480%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.947	59	142	0.727	ug/l #	72
16) Acetone	2.380	43	3230	4.234	ug/l #	82
19) Methyl tert-butyl Ether	3.111	73	5465	1.143	ug/l	100
20) Methylene Chloride	2.788	84	668	0.414	ug/l #	85
25) 2-Butanone	4.568	43	2495	2.622	ug/l	99
29) Tetrahydrofuran	5.013	42	2712	4.738	ug/l #	73
30) Chloroform	5.086	83	1794	0.638	ug/l	90
31) Cyclohexane	5.531	56	2374	1.024	ug/l #	2
36) 1,1-Dichloropropene	5.538	75	9803	4.747	ug/l #	43
38) Carbon Tetrachloride	5.544	117	12224	5.448	ug/l #	17
41) Methacrylonitrile	5.001	41	682	0.597	ug/l #	33
44) Trichloroethene	7.110	130	3476	2.292	ug/l	98
51) 4-Methyl-2-Pentanone	8.628	43	1141	0.567	ug/l #	1
60) Dibromochloromethane	9.256	129	960	0.559	ug/l #	11
64) Tetrachloroethene	9.263	164	898	0.724	ug/l	87
76) 1,2,3-Trichloropropane	11.061	75	49943	27.047	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	49943	68.975	ug/l #	8

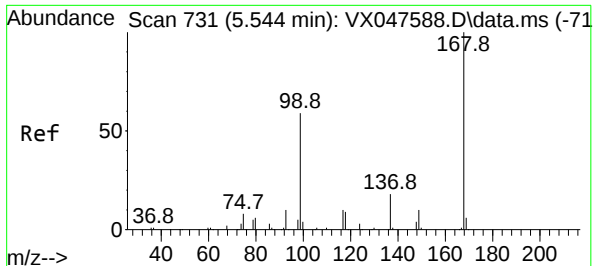
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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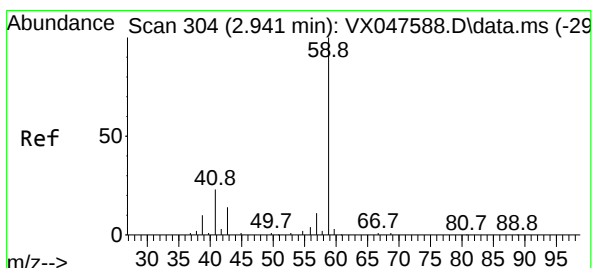
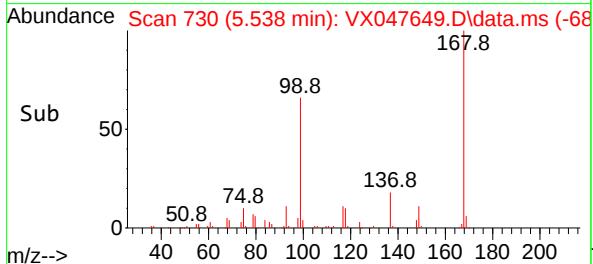
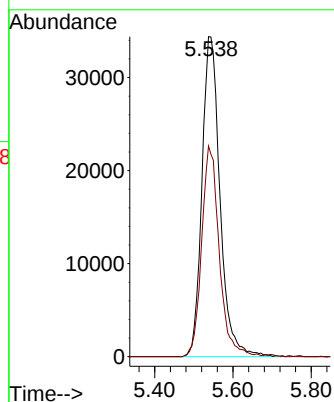
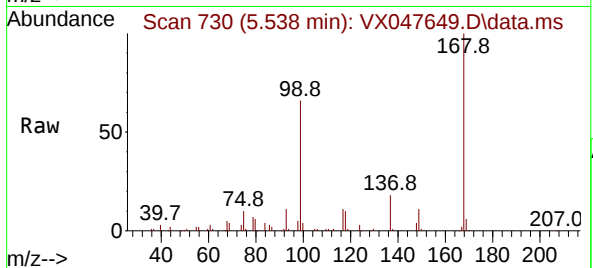




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

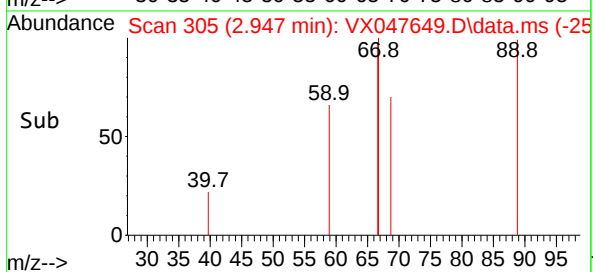
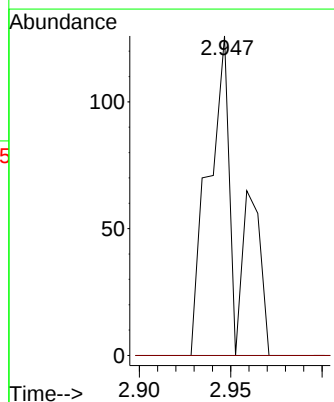
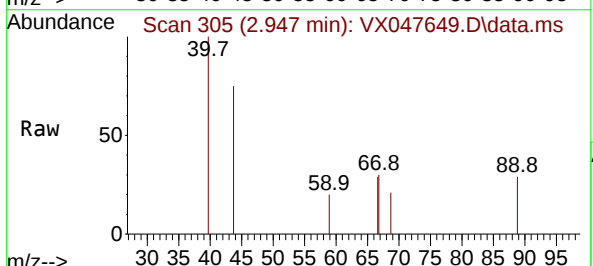
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

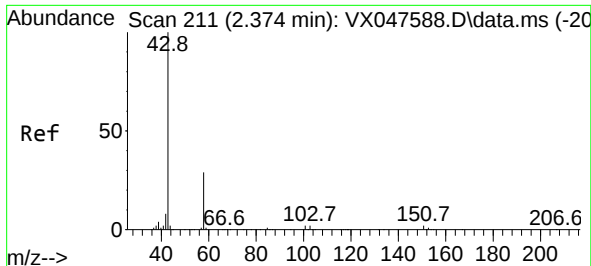
Tgt Ion:168 Resp: 110217
Ion Ratio Lower Upper
168 100
99 65.9 48.8 73.2



#11
Tert butyl alcohol
Concen: 0.727 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion: 59 Resp: 142
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

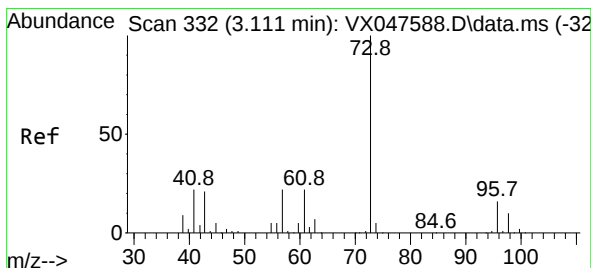
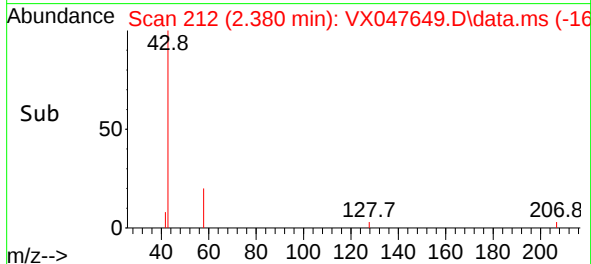
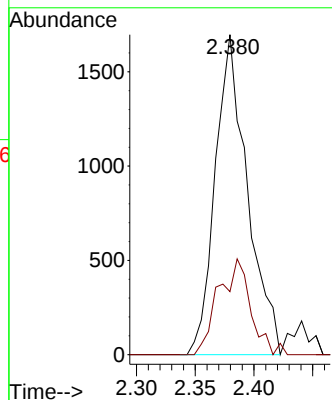
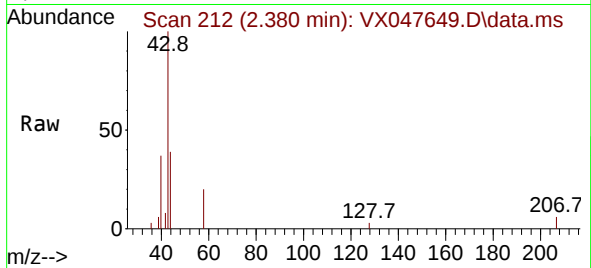




#16
Acetone
Concen: 4.234 ug/l
RT: 2.380 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

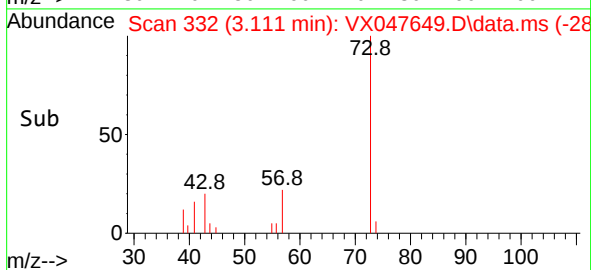
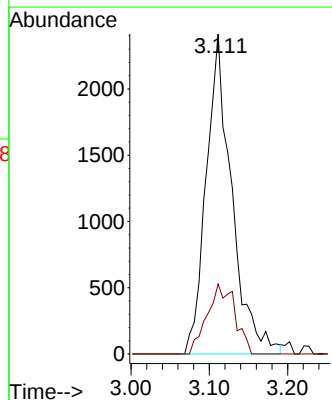
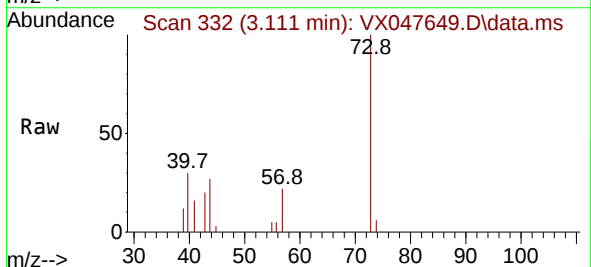
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

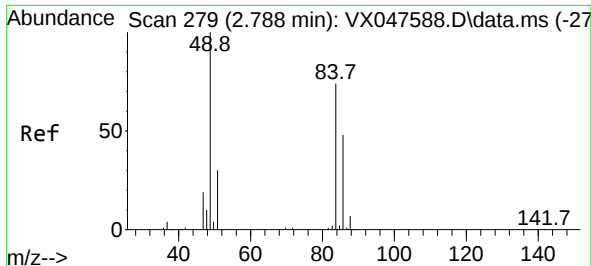
Tgt Ion: 43 Resp: 3230
Ion Ratio Lower Upper
43 100
58 19.7 23.4 35.0#



#19
Methyl tert-butyl Ether
Concen: 1.143 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion: 73 Resp: 5465
Ion Ratio Lower Upper
73 100
57 21.9 17.4 26.2

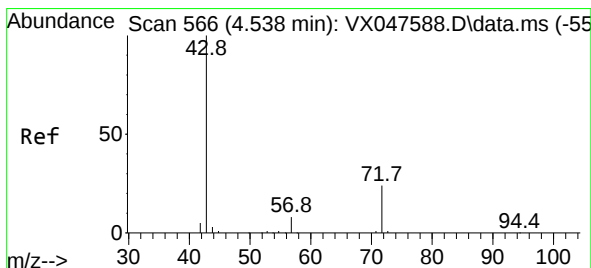
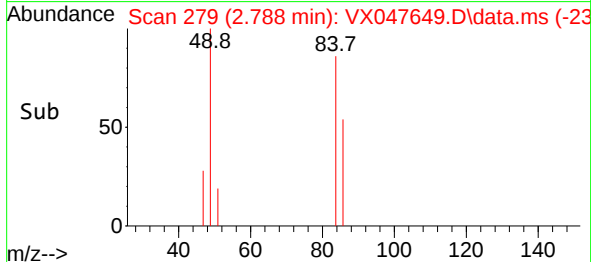
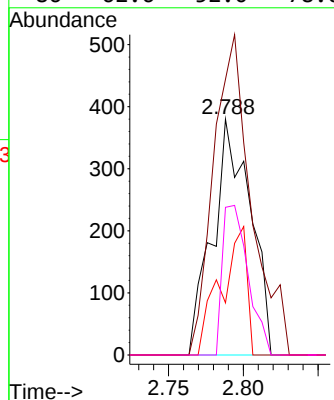
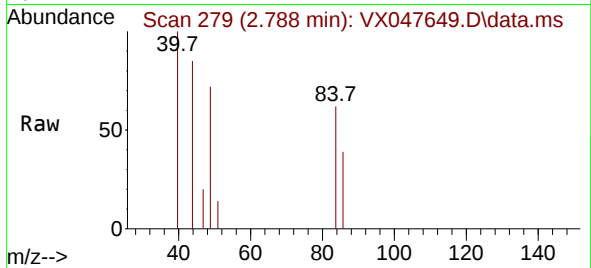




#20
Methylene Chloride
Concen: 0.414 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

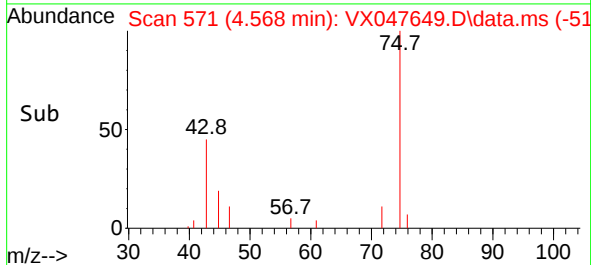
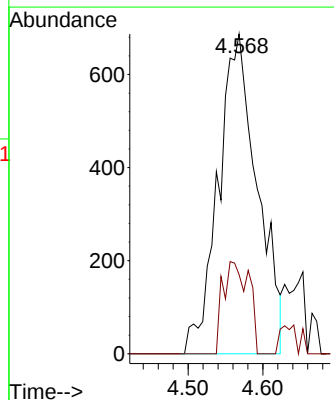
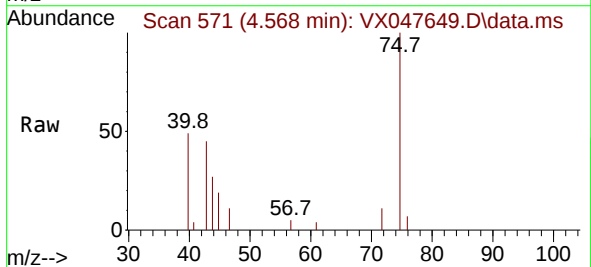
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

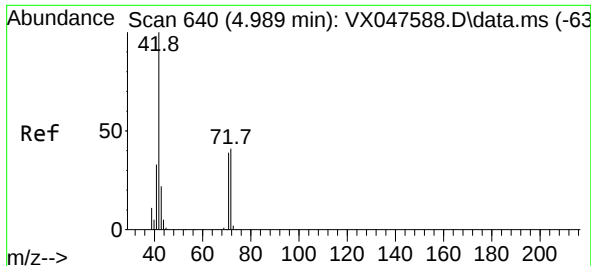
Tgt Ion:	84	Resp:	668
Ion	Ratio	Lower	Upper
84	100		
49	116.8	108.6	162.8
51	22.1	32.6	48.8#
86	62.6	52.0	78.0



#25
2-Butanone
Concen: 2.622 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.030 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion:	43	Resp:	2495
Ion	Ratio	Lower	Upper
43	100		
72	24.7	20.1	30.1





#29

Tetrahydrofuran

Concen: 4.738 ug/l

RT: 5.013 min Scan# 64

Delta R.T. 0.024 min

Lab File: VX047649.D

Acq: 18 Sep 2025 18:08

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910

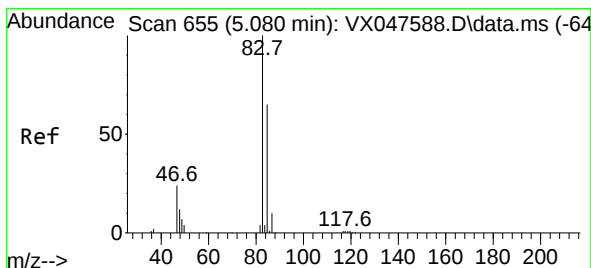
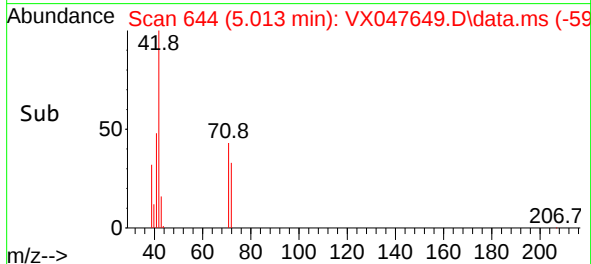
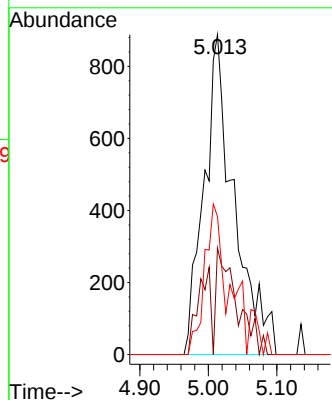
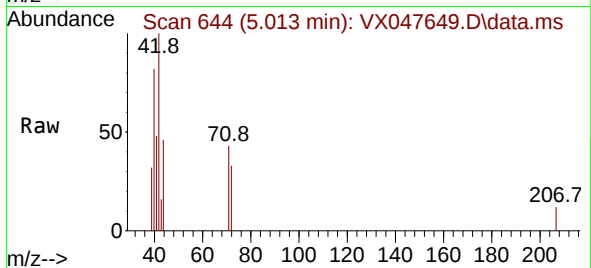
Tgt Ion: 42 Resp: 2712

Ion Ratio Lower Upper

42 100

72 22.9 34.2 51.2#

71 26.5 31.9 47.9#



#30

Chloroform

Concen: 0.638 ug/l

RT: 5.086 min Scan# 656

Delta R.T. 0.006 min

Lab File: VX047649.D

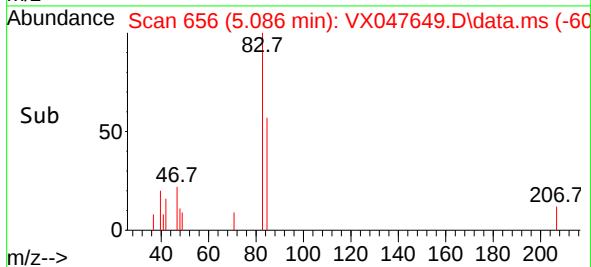
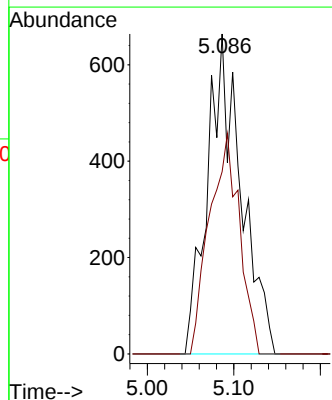
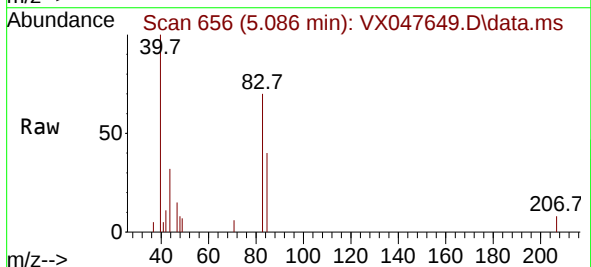
Acq: 18 Sep 2025 18:08

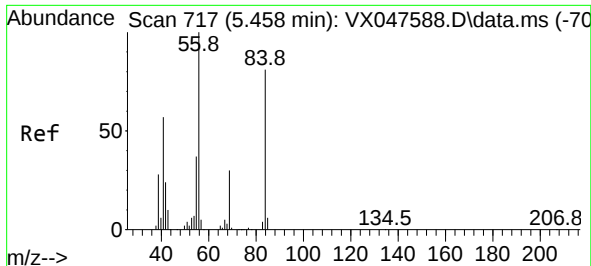
Tgt Ion: 83 Resp: 1794

Ion Ratio Lower Upper

83 100

85 56.9 51.8 77.6

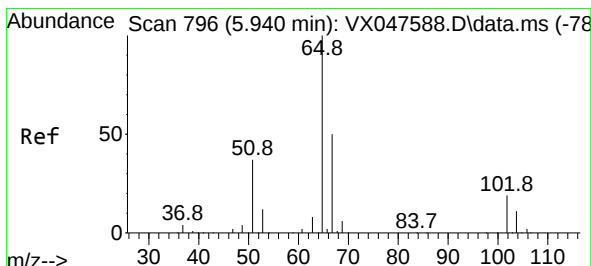
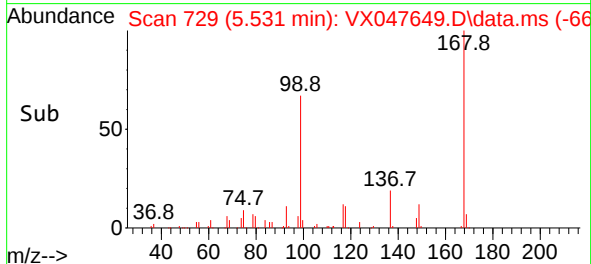
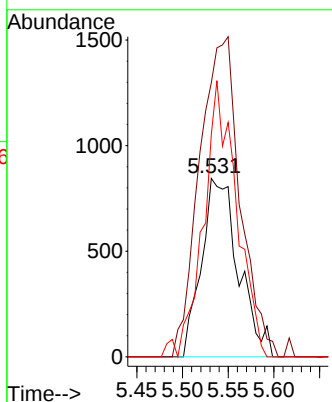
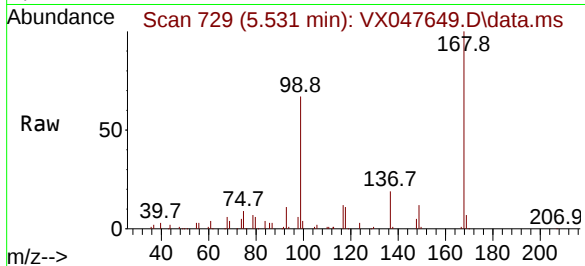




#31
Cyclohexane
Concen: 1.024 ug/l
RT: 5.531 min Scan# 717
Delta R.T. 0.073 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

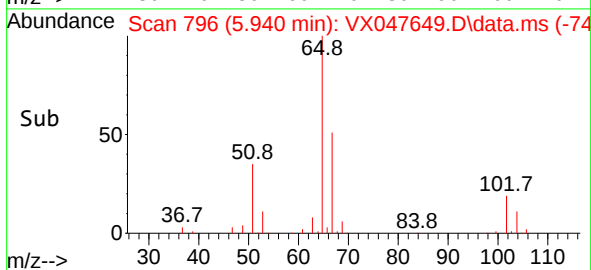
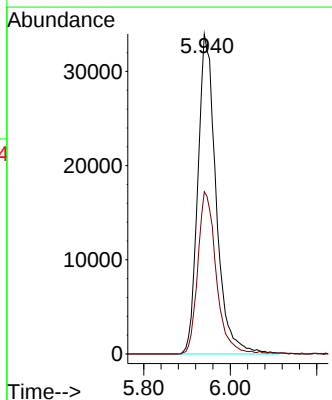
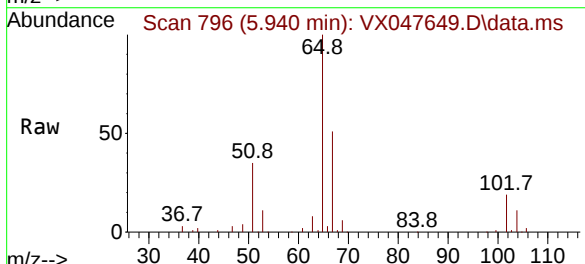
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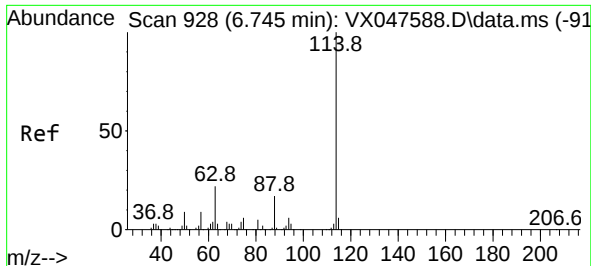
Tgt Ion: 56 Resp: 2374
Ion Ratio Lower Upper
56 100
69 153.6 23.8 35.8#
84 124.6 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 56.623 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion: 65 Resp: 99338
Ion Ratio Lower Upper
65 100
67 51.1 0.0 103.0

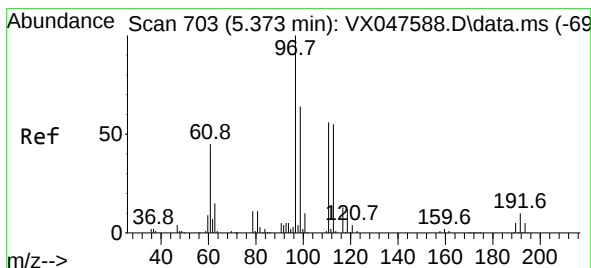
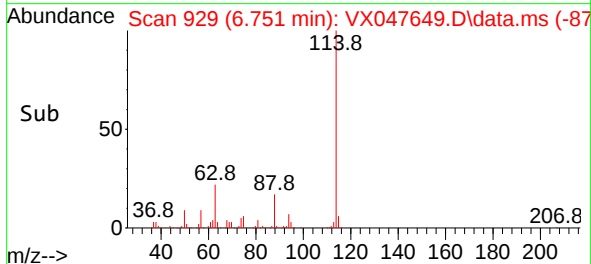
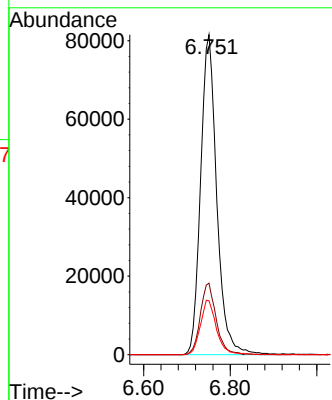
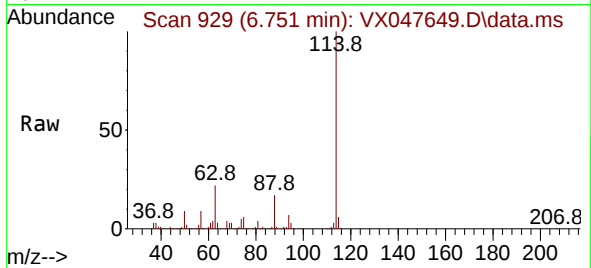




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.751 min Scan# 91
Delta R.T. 0.006 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

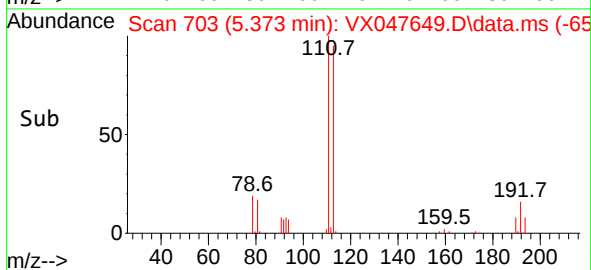
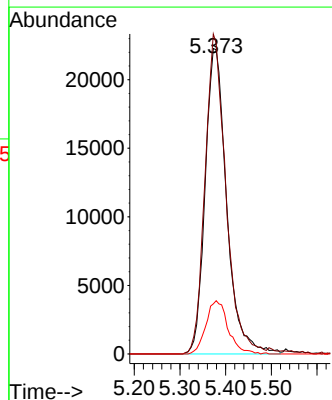
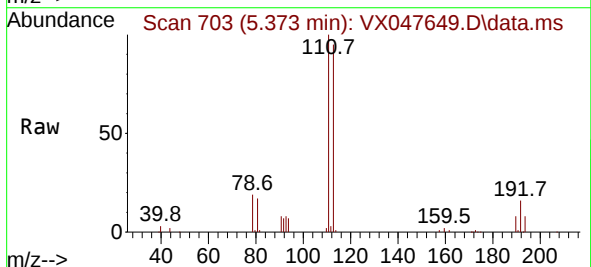
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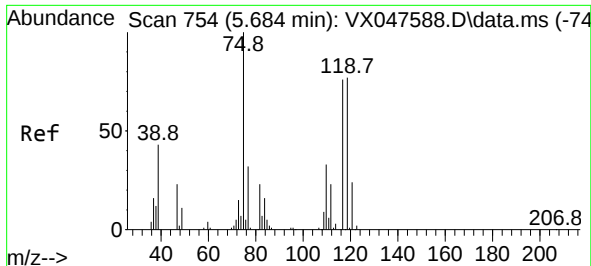
Tgt Ion:114 Resp: 210734
Ion Ratio Lower Upper
114 100
63 22.4 0.0 44.0
88 16.9 0.0 34.2



#35
Dibromofluoromethane
Concen: 51.625 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion:113 Resp: 72961
Ion Ratio Lower Upper
113 100
111 101.6 80.9 121.3
192 17.9 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.747 ug/l

RT: 5.538 min Scan# 71

Delta R.T. -0.146 min

Lab File: VX047649.D

Acq: 18 Sep 2025 18:08

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910

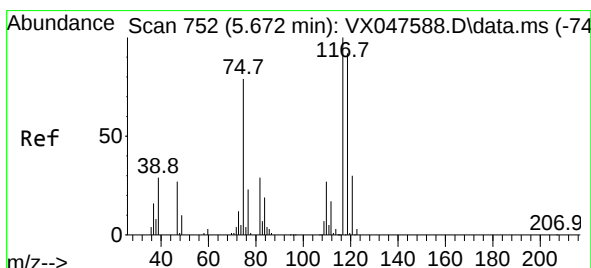
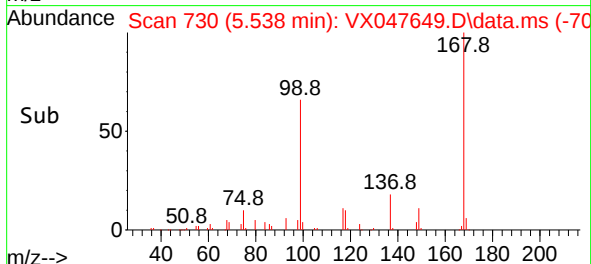
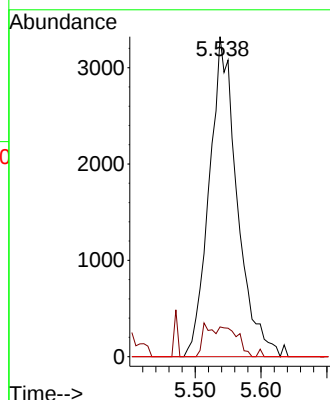
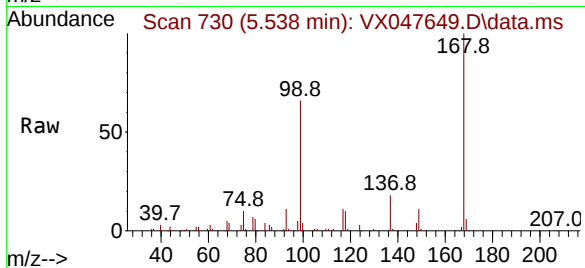
Tgt Ion: 75 Resp: 9803

Ion Ratio Lower Upper

75 100

110 0.0 16.7 50.1#

77 0.0 24.3 36.5#



#38

Carbon Tetrachloride

Concen: 5.448 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX047649.D

Acq: 18 Sep 2025 18:08

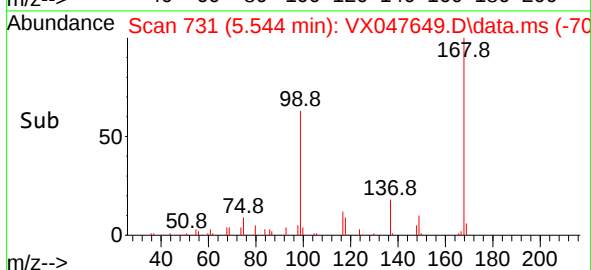
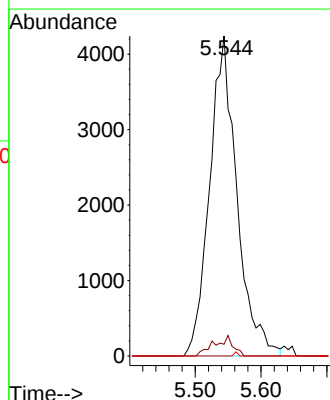
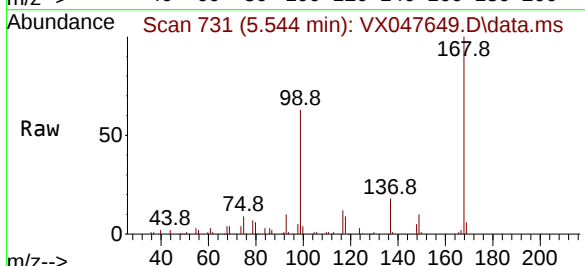
Tgt Ion: 117 Resp: 12224

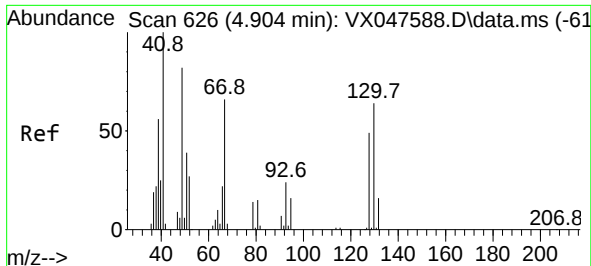
Ion Ratio Lower Upper

117 100

119 3.7 73.4 110.2#

121 0.0 23.8 35.6#

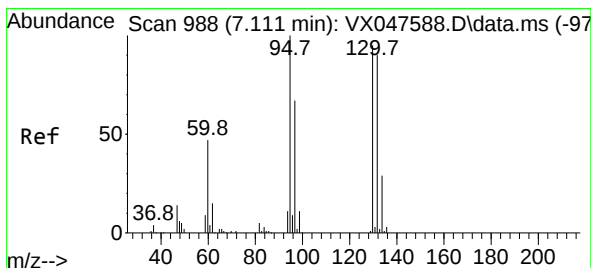
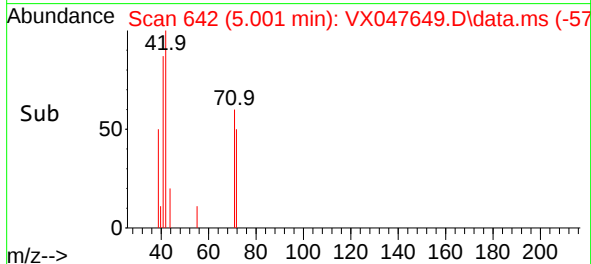
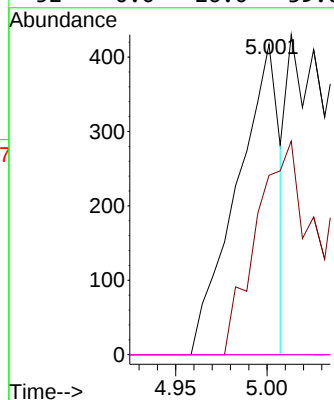
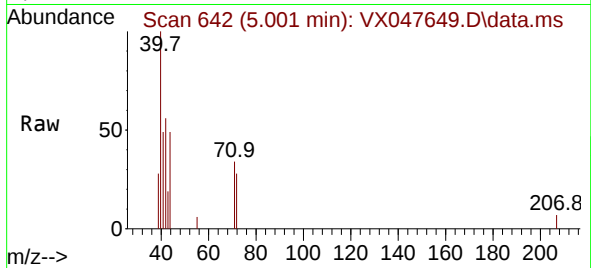




#41
Methacrylonitrile
Concen: 0.597 ug/l
RT: 5.001 min Scan# 642
Delta R.T. 0.097 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

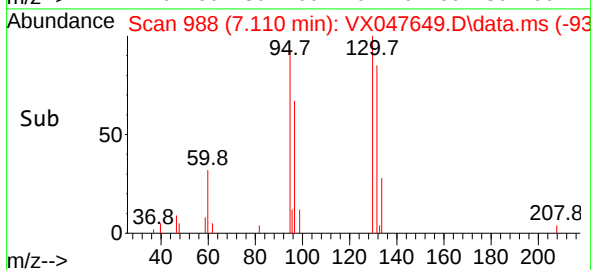
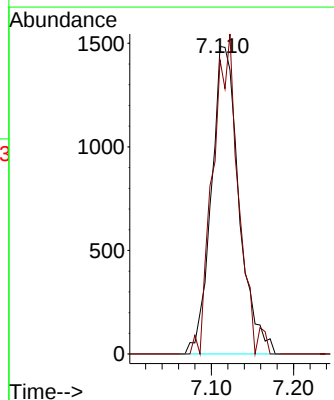
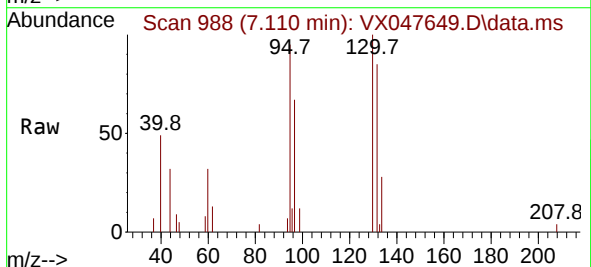
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

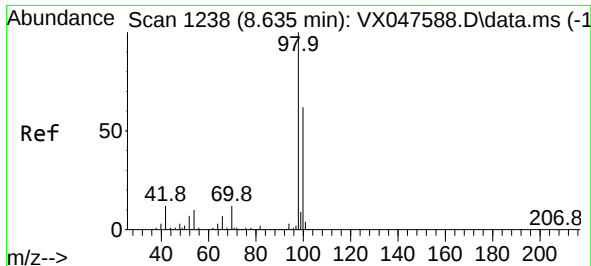
Tgt Ion:	41	Resp:	682
Ion	Ratio	Lower	Upper
41	100		
39	86.4	43.3	64.9#
67	0.0	58.6	87.8#
52	0.0	26.0	39.0#



#44
Trichloroethene
Concen: 2.292 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion:	130	Resp:	3476
Ion	Ratio	Lower	Upper
130	100		
95	107.1	0.0	210.8

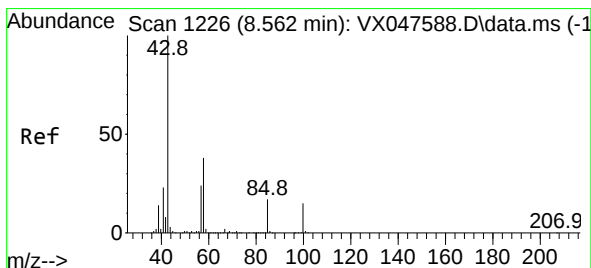
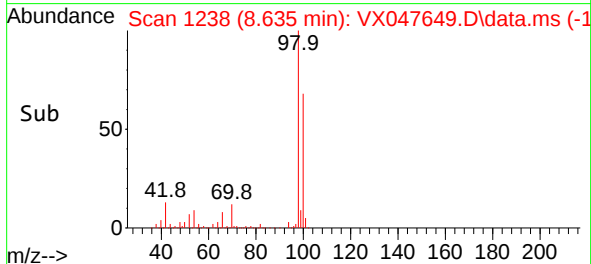
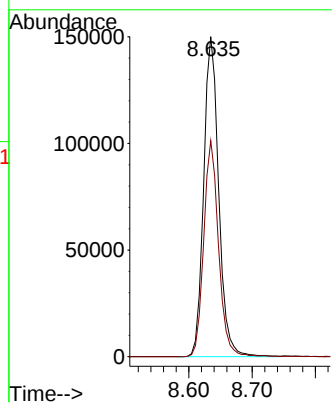
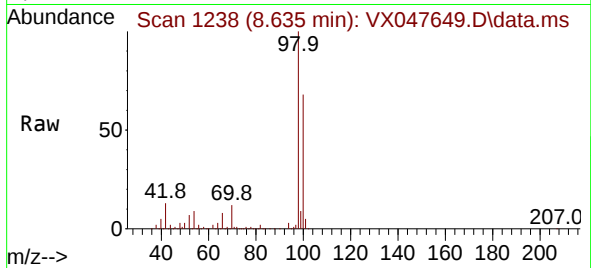




#50
Toluene-d8
Concen: 50.764 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

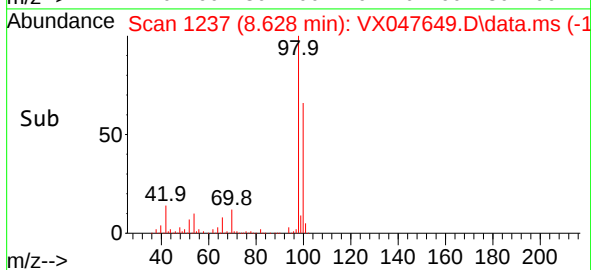
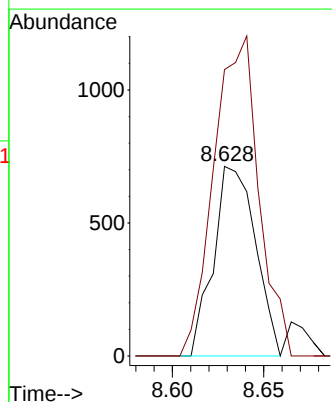
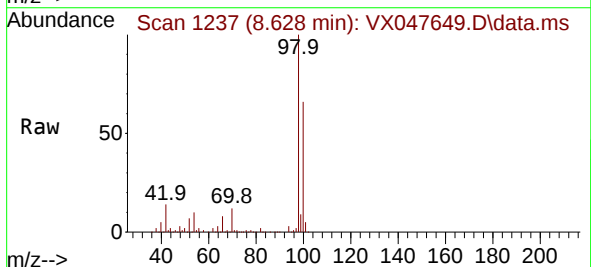
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

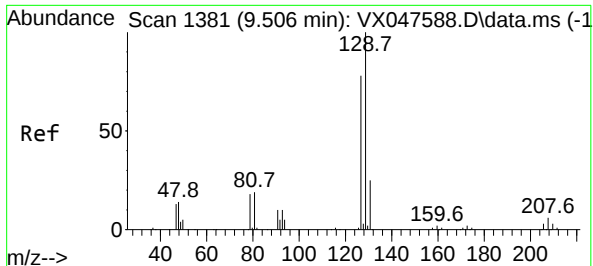
Tgt Ion: 98 Resp: 248250
Ion Ratio Lower Upper
98 100
100 66.6 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.567 ug/l
RT: 8.628 min Scan# 1237
Delta R.T. 0.067 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion: 43 Resp: 1141
Ion Ratio Lower Upper
43 100
58 180.2 30.3 45.5#

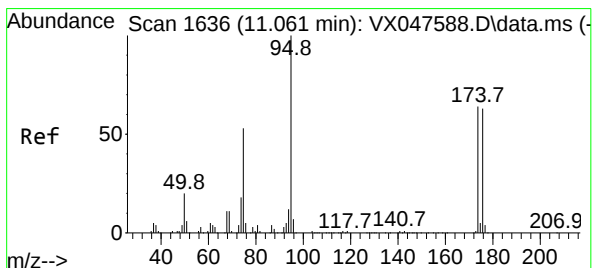
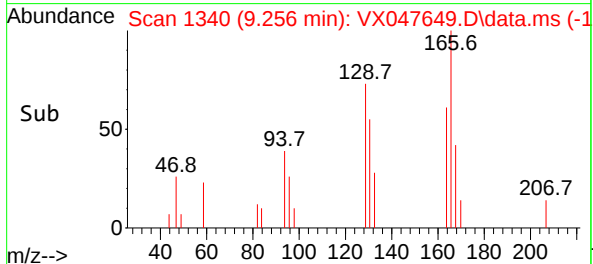
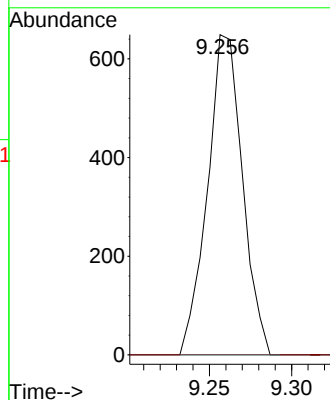
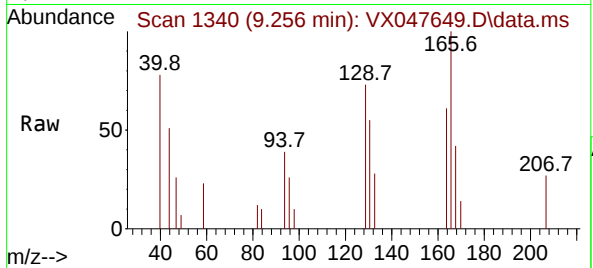




#60
Dibromochloromethane
Concen: 0.559 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.250 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

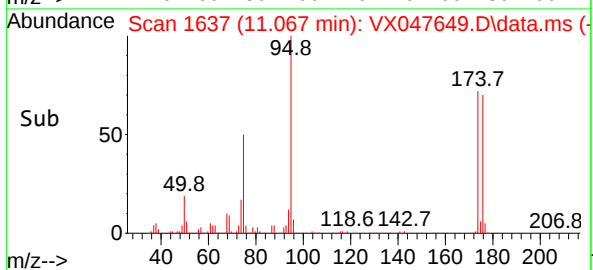
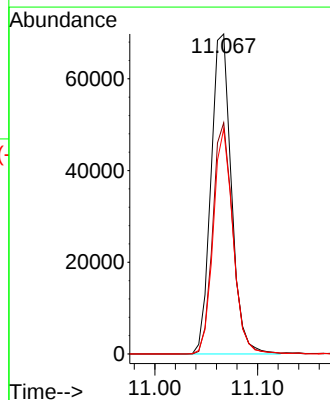
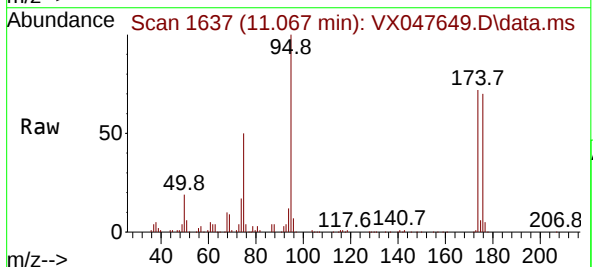
Instrument :
MSVOA_X
ClientSampleId :
MW178I-20250910

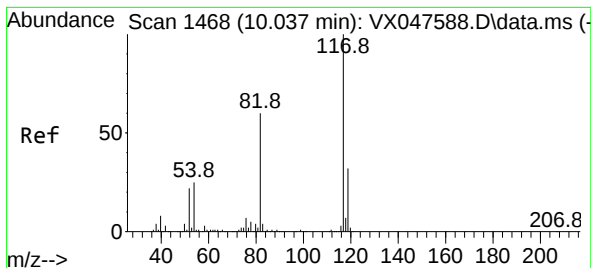
Tgt Ion:129 Resp: 960
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#



#62
4-Bromofluorobenzene
Concen: 51.743 ug/l
RT: 11.067 min Scan# 1637
Delta R.T. 0.006 min
Lab File: VX047649.D
Acq: 18 Sep 2025 18:08

Tgt Ion: 95 Resp: 96032
Ion Ratio Lower Upper
95 100
174 71.4 0.0 141.6
176 68.3 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: VX047649.D

Acq: 18 Sep 2025 18:08

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910

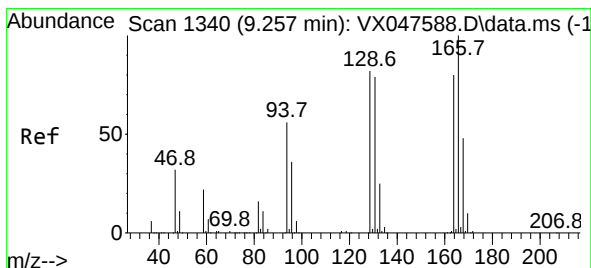
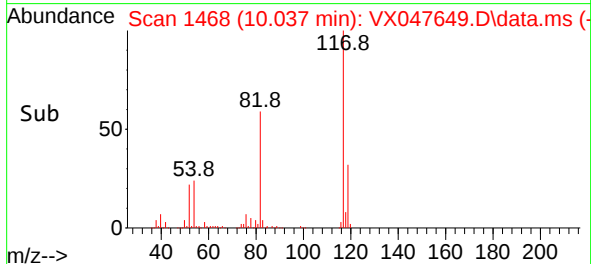
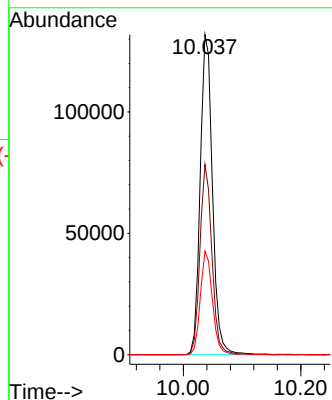
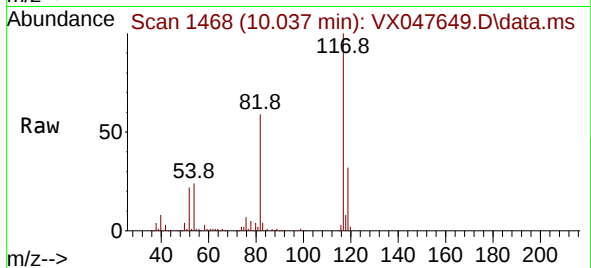
Tgt Ion:117 Resp: 190251

Ion Ratio Lower Upper

117 100

82 59.4 47.8 71.6

119 32.3 25.2 37.8



#64

Tetrachloroethene

Concen: 0.724 ug/l

RT: 9.263 min Scan# 1341

Delta R.T. 0.006 min

Lab File: VX047649.D

Acq: 18 Sep 2025 18:08

Tgt Ion:164 Resp: 898

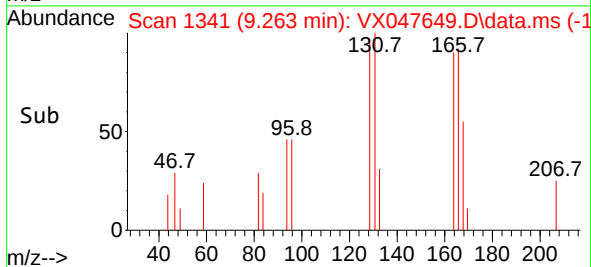
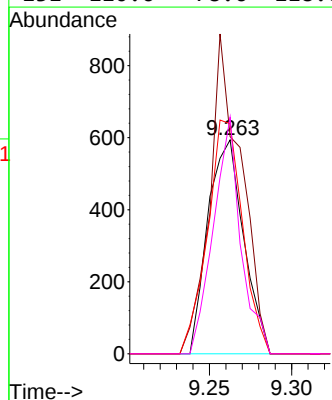
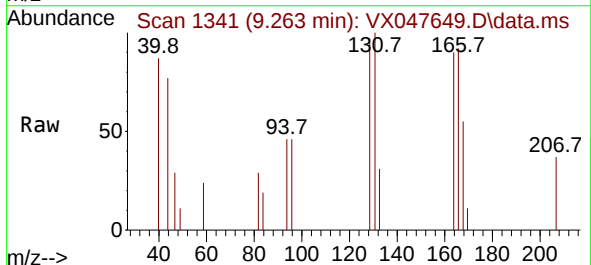
Ion Ratio Lower Upper

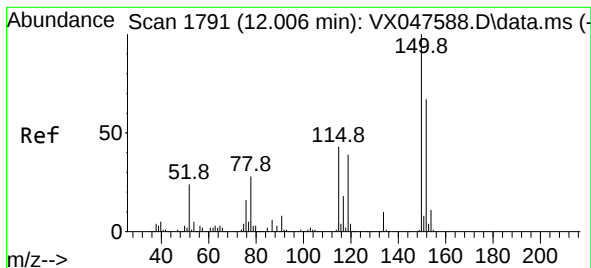
164 100

166 101.5 100.2 150.2

129 107.6 81.8 122.6

131 110.6 78.6 118.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX047649.D

Acq: 18 Sep 2025 18:08

Instrument :

MSVOA_X

ClientSampleId :

MW178I-20250910

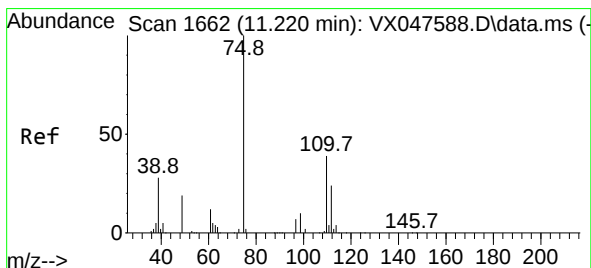
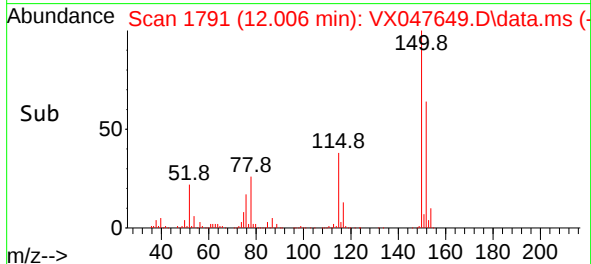
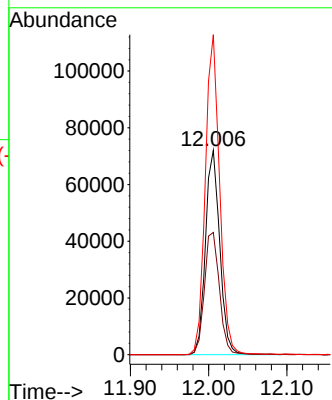
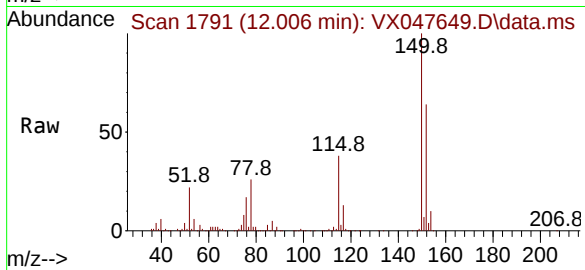
Tgt Ion:152 Resp: 91199

Ion Ratio Lower Upper

152 100

115 63.1 44.9 134.5

150 157.1 0.0 352.0



#76

1,2,3-Trichloropropane

Concen: 27.047 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. -0.159 min

Lab File: VX047649.D

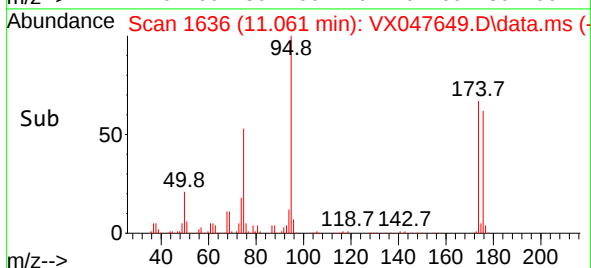
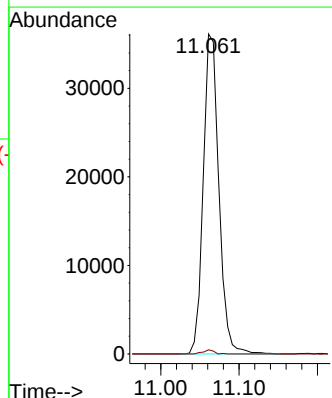
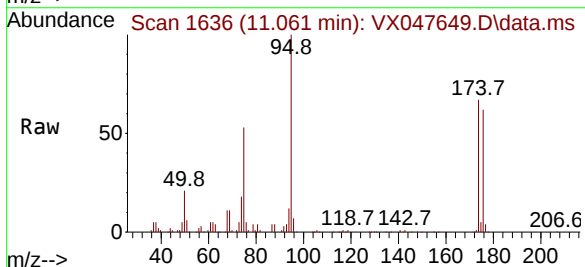
Acq: 18 Sep 2025 18:08

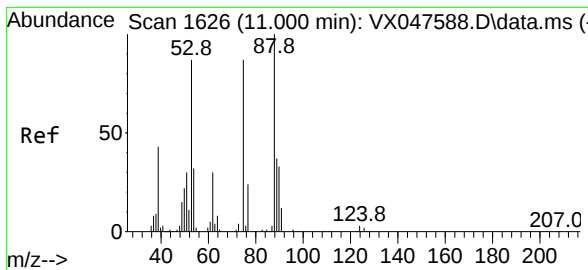
Tgt Ion: 75 Resp: 49943

Ion Ratio Lower Upper

75 100

77 0.9 18.8 56.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.975 ug/l
 RT: 11.061 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX047649.D
 Acq: 18 Sep 2025 18:08

Instrument :
 MSVOA_X
 ClientSampleId :
 MW178I-20250910

Tgt Ion: 75 Resp: 49943
 Ion Ratio Lower Upper
 75 100
 53 0.0 83.4 125.2#
 89 0.0 36.3 54.5#

