

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091725\
 Data File : VX047608.D
 Acq On : 17 Sep 2025 11:39
 Operator : JC/MD
 Sample : Q3095-02
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 MW179D-20250908

Quant Time: Sep 22 03:04:05 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

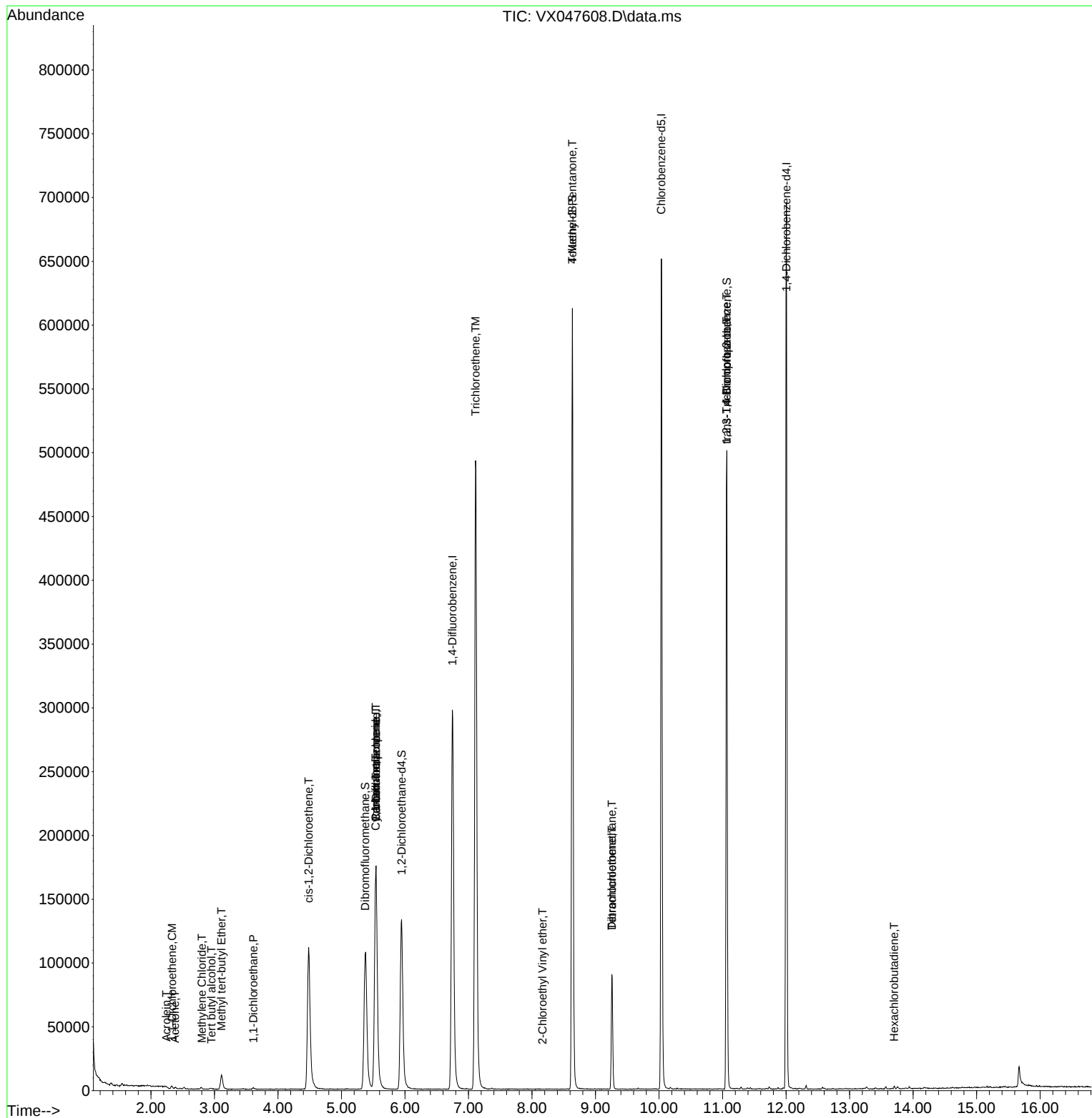
Compound	R.T. QIon		Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	5.543	168	173084	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.744	114	325021	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	290676	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	142056	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	144288	52.372	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 104.740%	
35) Dibromofluoromethane	5.373	113	105606	48.448	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 96.900%	
50) Toluene-d8	8.634	98	371842	49.300	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 98.600%	
62) 4-Bromofluorobenzene	11.067	95	145076	50.682	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 101.360%	
Target Compounds						Qvalue
11) Tert butyl alcohol	2.952	59	131	0.427	ug/l #	72
12) 1,1-Dichloroethene	2.331	96	697	0.339	ug/l #	71
13) Acrolein	2.239	56	115	0.407	ug/l #	43
16) Acetone	2.379	43	1548	1.292	ug/l #	75
19) Methyl tert-butyl Ether	3.111	73	12940	1.724	ug/l	95
20) Methylene Chloride	2.800	84	603	0.238	ug/l #	49
24) 1,1-Dichloroethane	3.611	63	1615	0.369	ug/l #	81
27) cis-1,2-Dichloroethene	4.483	96	76772	28.315	ug/l	90
31) Cyclohexane	5.537	56	4189	1.151	ug/l #	8
36) 1,1-Dichloropropene	5.543	75	15267	4.793	ug/l #	51
38) Carbon Tetrachloride	5.543	117	19250	5.562	ug/l #	17
44) Trichloroethene	7.110	130	205862	88.018	ug/l	98
51) 4-Methyl-2-Pentanone	8.634	43	1810	0.584	ug/l #	1
58) 2-Chloroethyl Vinyl ether	8.165	63	157	7.984	ug/l #	47
60) Dibromochloromethane	9.256	129	17675	6.675	ug/l #	11
64) Tetrachloroethene	9.256	164	17215	9.085	ug/l	98
76) 1,2,3-Trichloropropane	11.061	75	75327	26.190	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	75327	66.788	ug/l #	8
94) Hexachlorobutadiene	13.701	225	327	0.315	ug/l	83

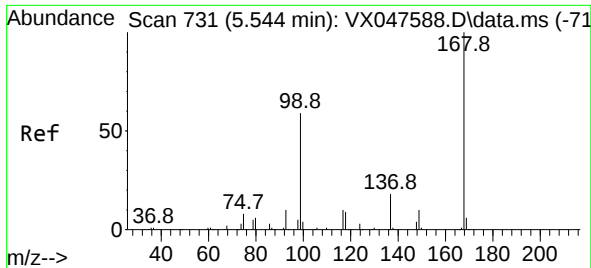
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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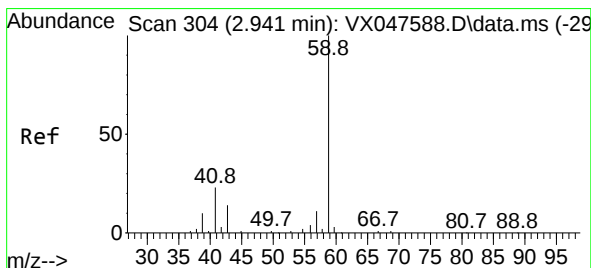
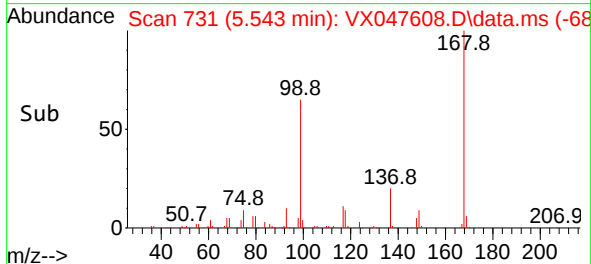
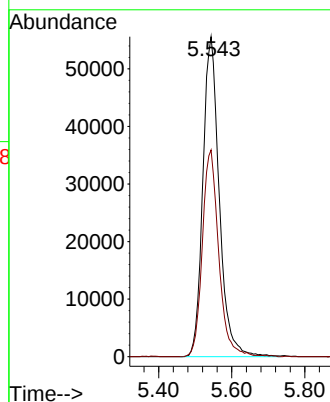
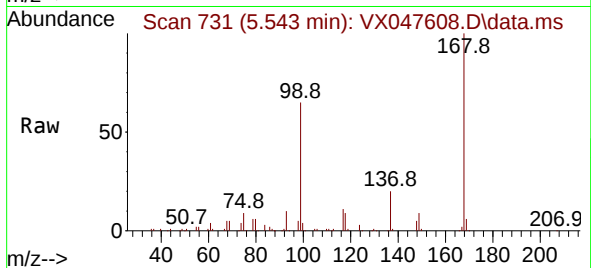




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.001 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

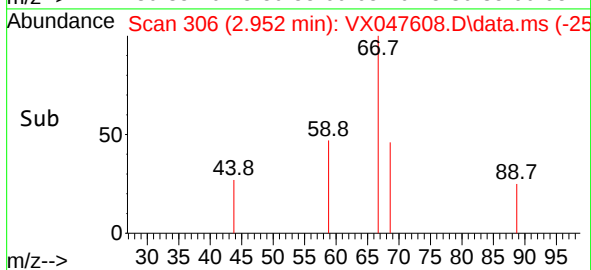
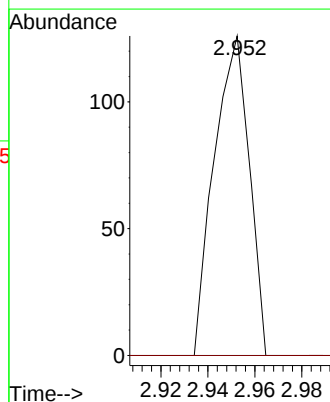
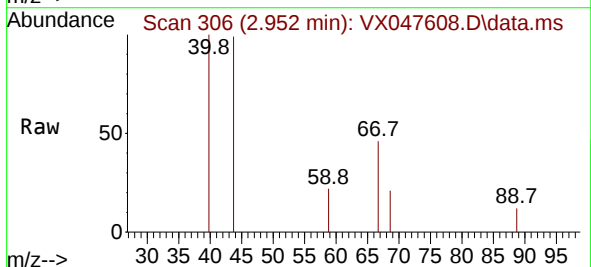
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

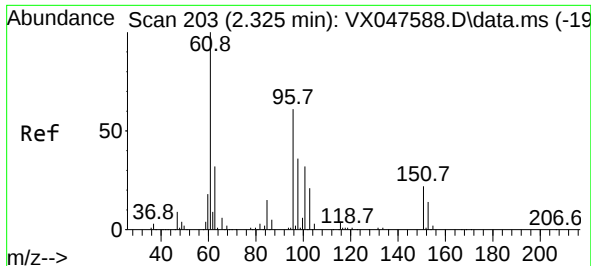
Tgt Ion:168 Resp: 173084
Ion Ratio Lower Upper
168 100
99 64.6 48.8 73.2



#11
Tert butyl alcohol
Concen: 0.427 ug/l
RT: 2.952 min Scan# 306
Delta R.T. 0.012 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion: 59 Resp: 131
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

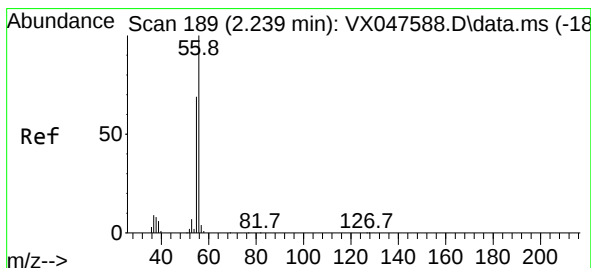
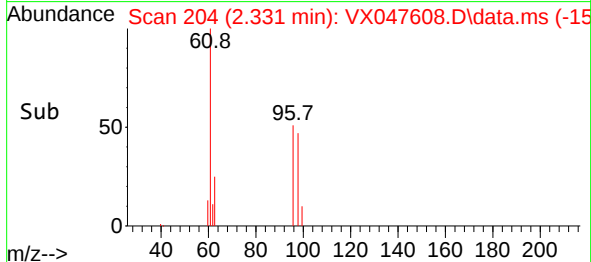
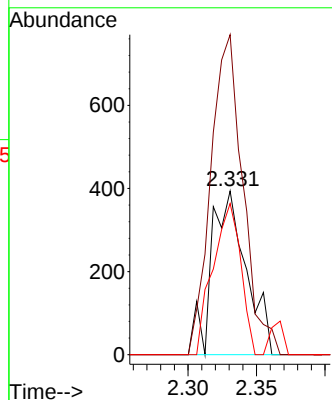
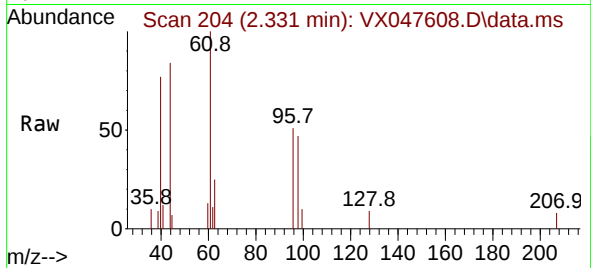




#12
1,1-Dichloroethene
Concen: 0.339 ug/l
RT: 2.331 min Scan# 203
Delta R.T. 0.006 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

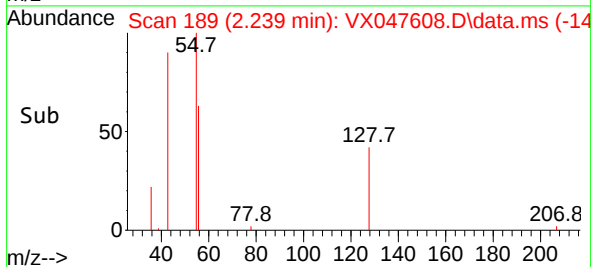
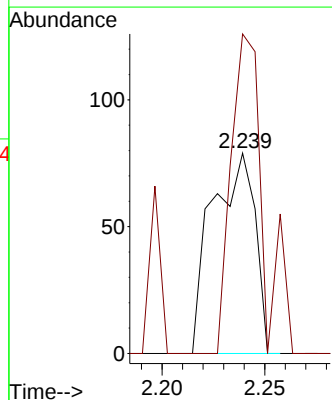
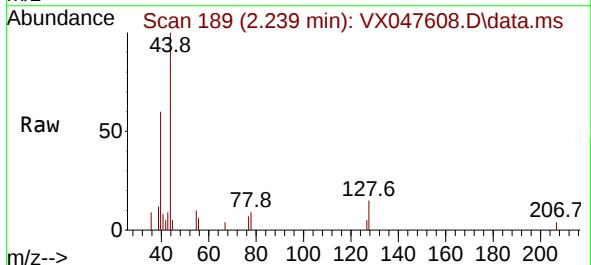
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

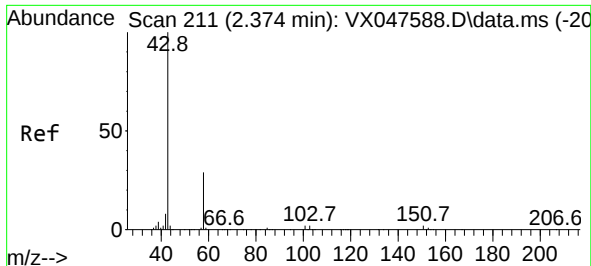
Tgt Ion: 96 Resp: 697
Ion Ratio Lower Upper
96 100
61 195.4 131.0 196.6
98 92.4 47.7 71.5#



#13
Acrolein
Concen: 0.407 ug/l
RT: 2.239 min Scan# 189
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion: 56 Resp: 115
Ion Ratio Lower Upper
56 100
55 119.1 57.2 85.8#

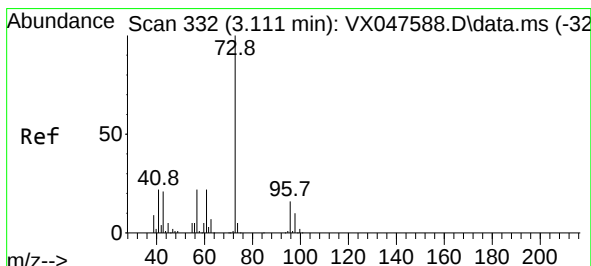
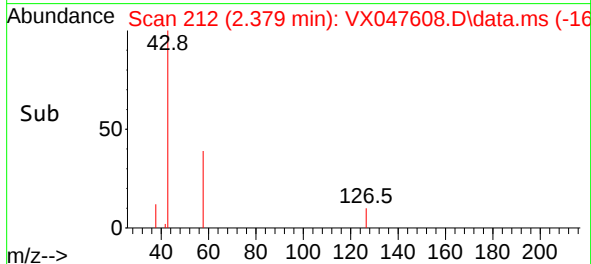
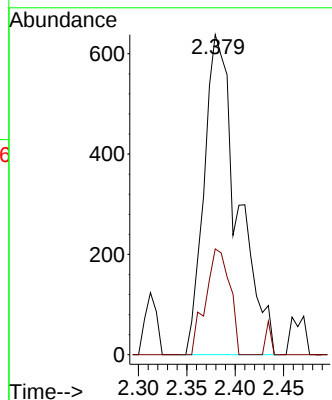
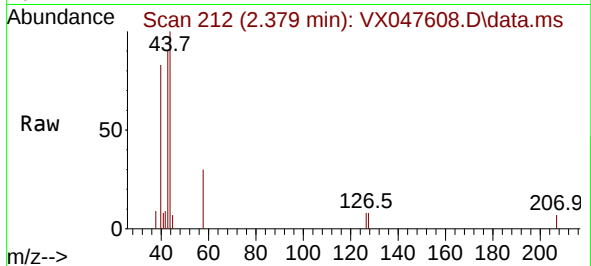




#16
Acetone
Concen: 1.292 ug/l
RT: 2.379 min Scan# 211
Delta R.T. 0.006 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

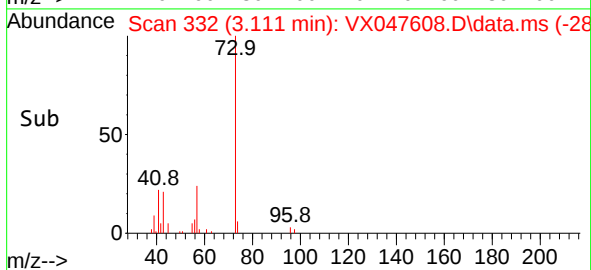
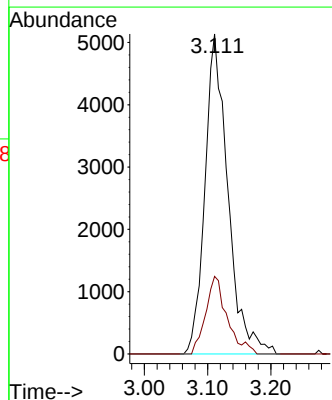
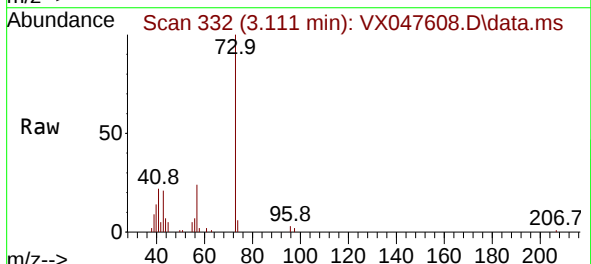
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

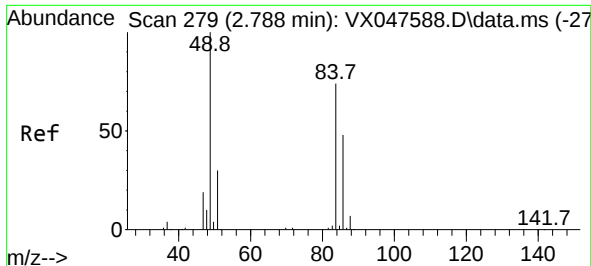
Tgt Ion: 43 Resp: 1548
Ion Ratio Lower Upper
43 100
58 15.7 23.4 35.0#



#19
Methyl tert-butyl Ether
Concen: 1.724 ug/l
RT: 3.111 min Scan# 332
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion: 73 Resp: 12940
Ion Ratio Lower Upper
73 100
57 24.3 17.4 26.2

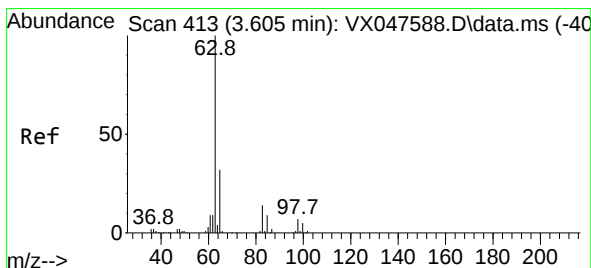
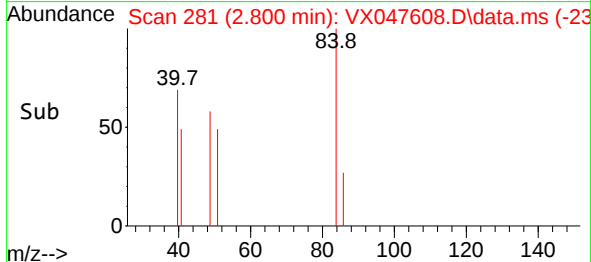
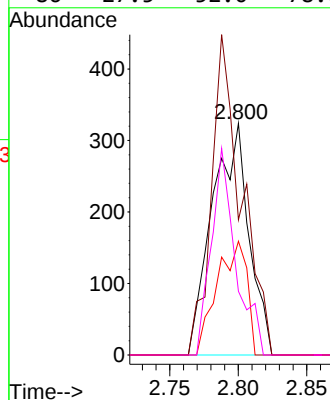
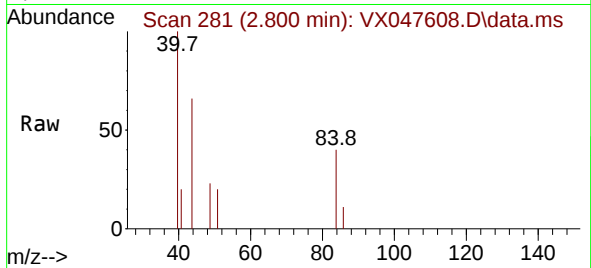




#20
Methylene Chloride
Concen: 0.238 ug/l
RT: 2.800 min Scan# 21
Delta R.T. 0.012 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

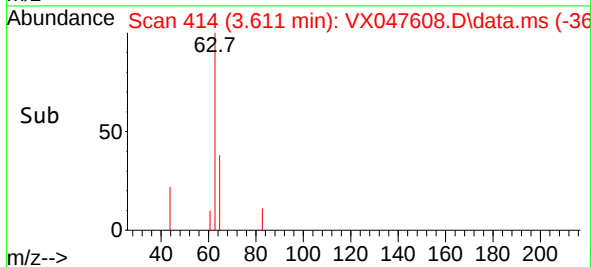
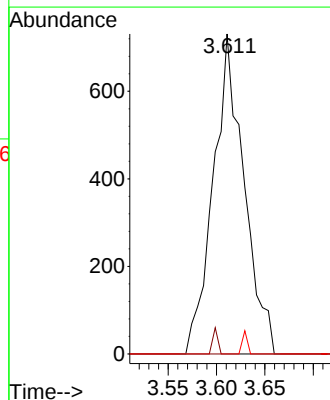
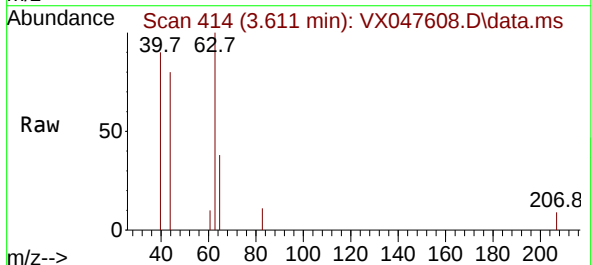
Instrument :
MSVOA_X
ClientSampleId :
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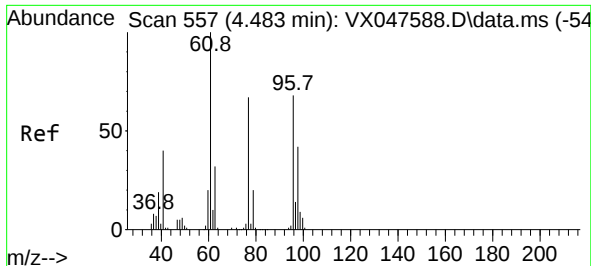
Tgt Ion:	84	Resp:	603
Ion	Ratio	Lower	Upper
84	100		
49	58.3	108.6	162.8#
51	49.1	32.6	48.8#
86	27.5	52.0	78.0#



#24
1,1-Dichloroethane
Concen: 0.369 ug/l
RT: 3.611 min Scan# 414
Delta R.T. 0.006 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion:	63	Resp:	1615
Ion	Ratio	Lower	Upper
63	100		
98	0.0	3.8	11.2#
100	0.0	2.3	6.9#

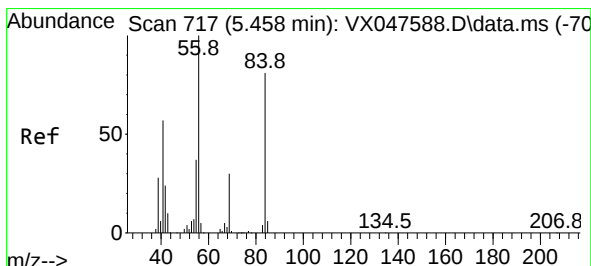
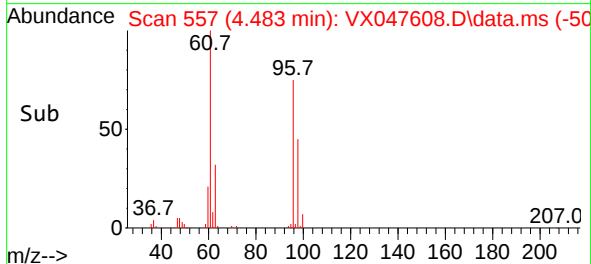
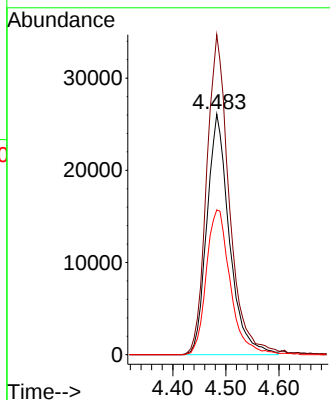
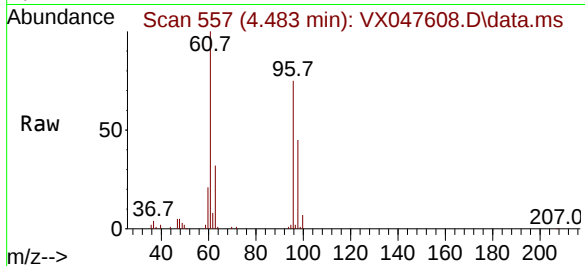




#27
 cis-1,2-Dichloroethene
 Concen: 28.315 ug/l
 RT: 4.483 min Scan# 51
 Delta R.T. -0.000 min
 Lab File: VX047608.D
 Acq: 17 Sep 2025 11:39

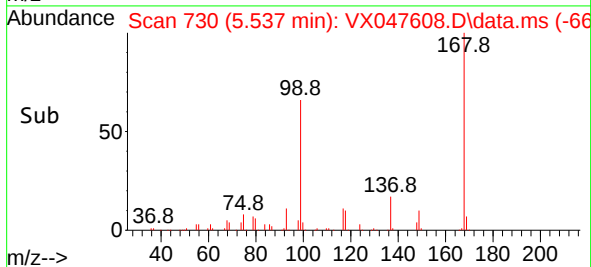
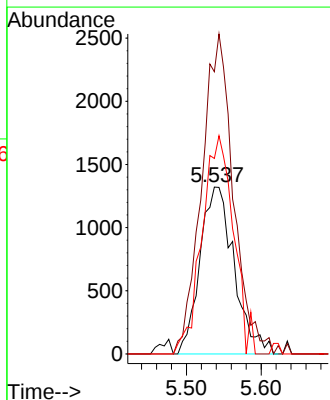
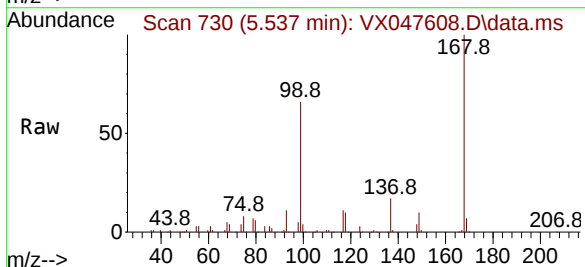
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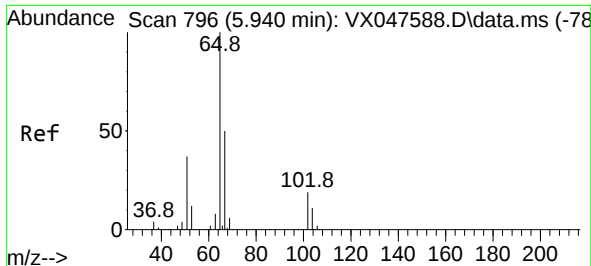
Tgt Ion: 96 Resp: 76772
 Ion Ratio Lower Upper
 96 100
 61 134.1 0.0 303.2
 98 64.5 0.0 127.8



#31
 Cyclohexane
 Concen: 1.151 ug/l
 RT: 5.537 min Scan# 730
 Delta R.T. 0.079 min
 Lab File: VX047608.D
 Acq: 17 Sep 2025 11:39

Tgt Ion: 56 Resp: 4189
 Ion Ratio Lower Upper
 56 100
 69 164.1 23.8 35.8#
 84 111.1 64.6 97.0#





#33

1,2-Dichloroethane-d4

Concen: 52.372 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX047608.D

Acq: 17 Sep 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

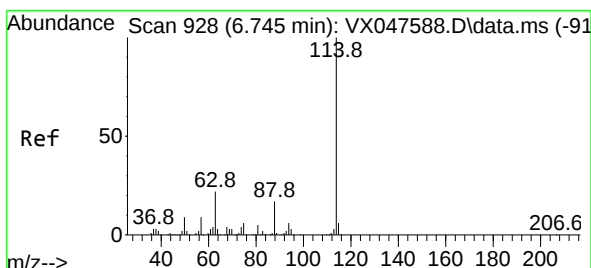
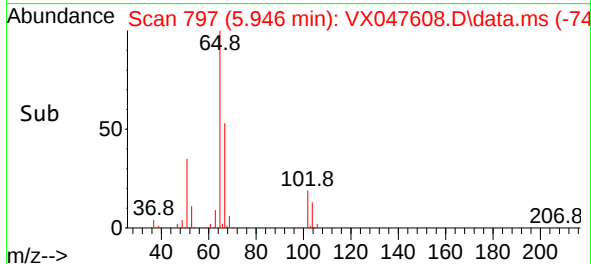
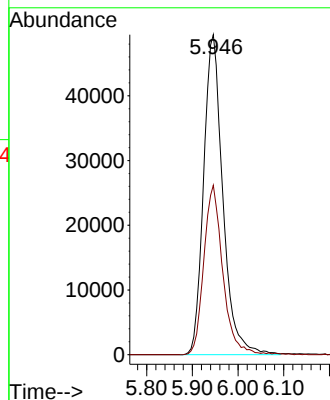
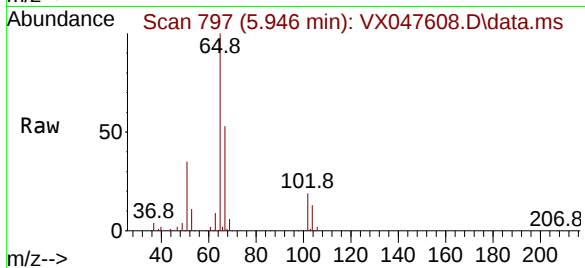
MW179D-20250908

Tgt Ion: 65 Resp: 144288

Ion Ratio Lower Upper

65 100

67 52.4 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.744 min Scan# 928

Delta R.T. -0.000 min

Lab File: VX047608.D

Acq: 17 Sep 2025 11:39

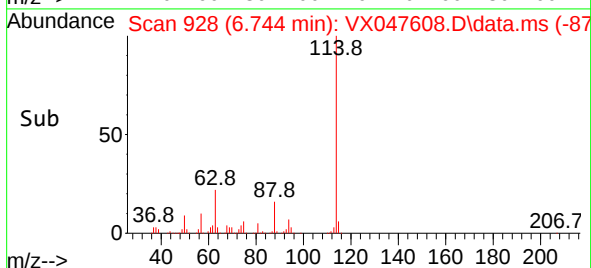
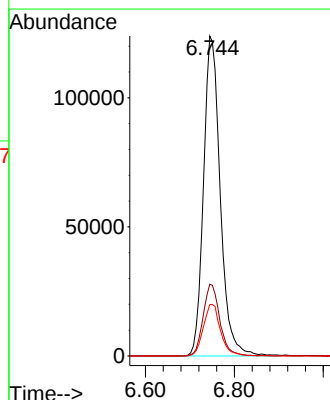
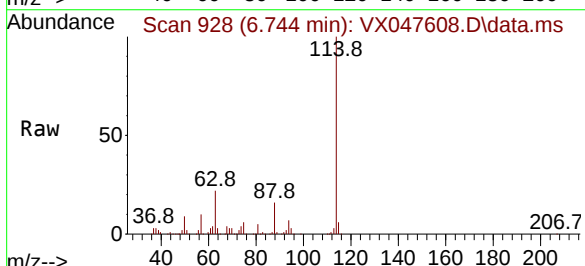
Tgt Ion: 114 Resp: 325021

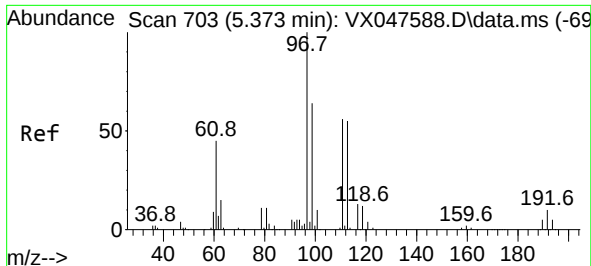
Ion Ratio Lower Upper

114 100

63 22.4 0.0 44.0

88 16.0 0.0 34.2





#35

Dibromofluoromethane

Concen: 48.448 ug/l

RT: 5.373 min Scan# 703

Delta R.T. -0.000 min

Lab File: VX047608.D

Acq: 17 Sep 2025 11:39

Instrument :

MSVOA_X

ClientSampleId :

MW179D-20250908

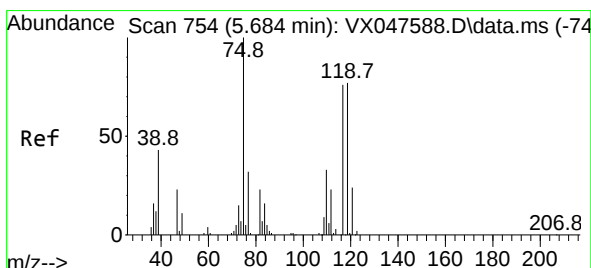
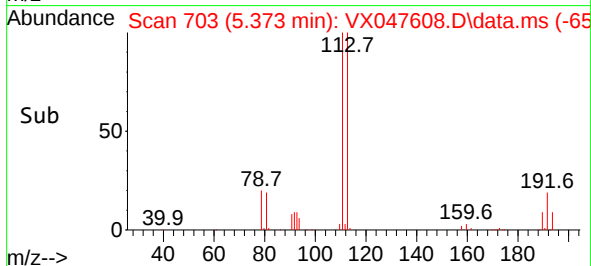
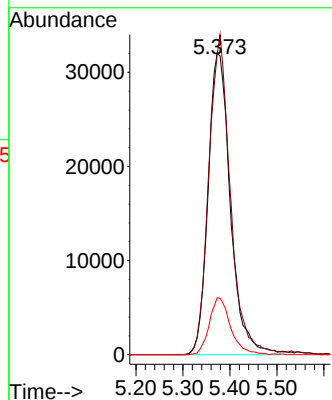
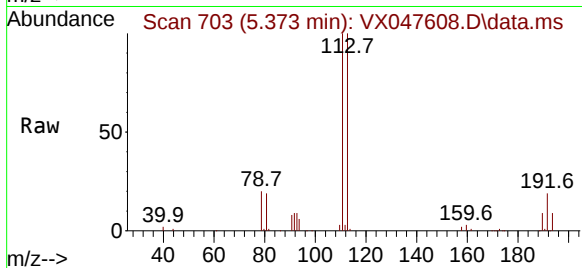
Tgt Ion:113 Resp: 105606

Ion Ratio Lower Upper

113 100

111 102.6 80.9 121.3

192 18.0 14.2 21.4



#36

1,1-Dichloropropene

Concen: 4.793 ug/l

RT: 5.543 min Scan# 731

Delta R.T. -0.141 min

Lab File: VX047608.D

Acq: 17 Sep 2025 11:39

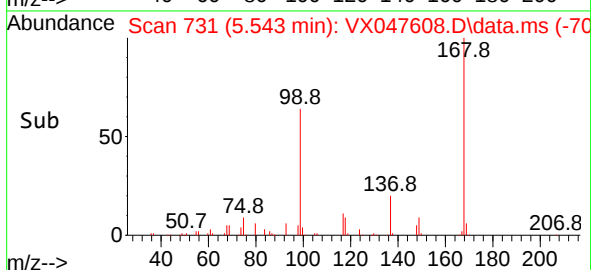
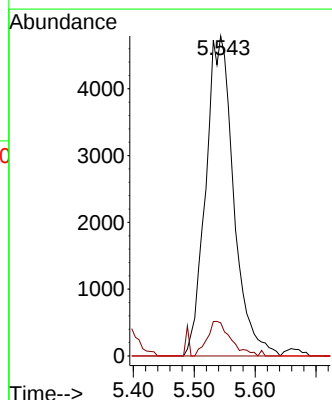
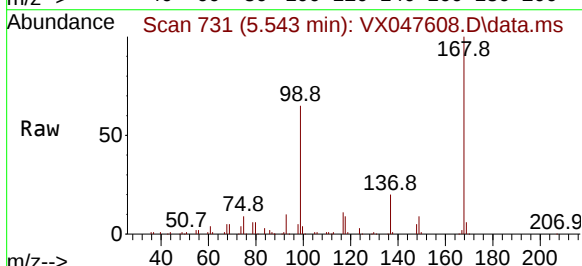
Tgt Ion: 75 Resp: 15267

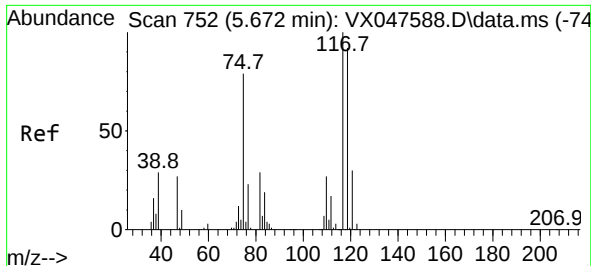
Ion Ratio Lower Upper

75 100

110 9.1 16.7 50.1#

77 0.0 24.3 36.5#

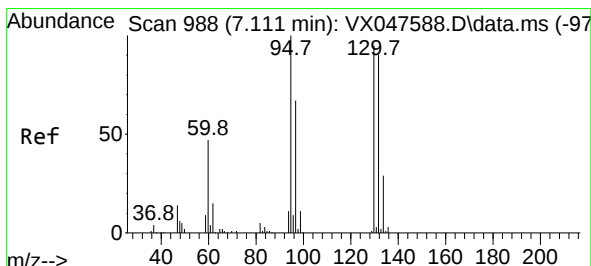
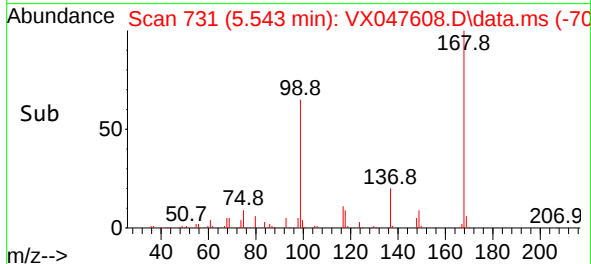
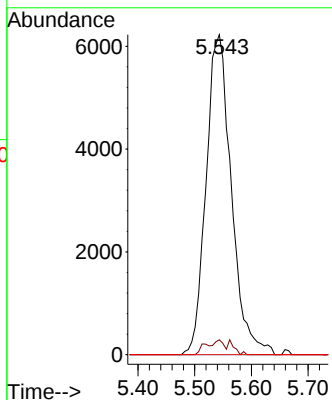
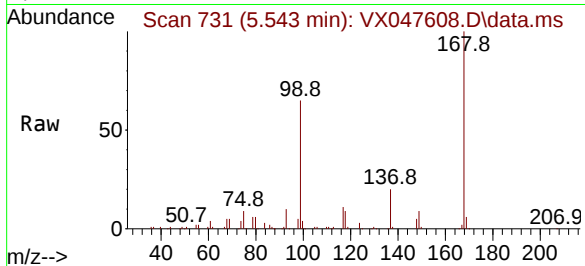




#38
Carbon Tetrachloride
Concen: 5.562 ug/l
RT: 5.543 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

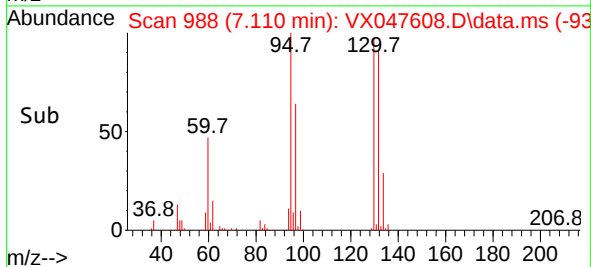
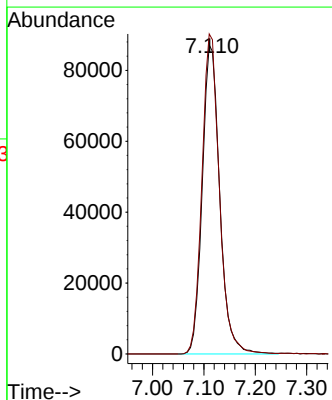
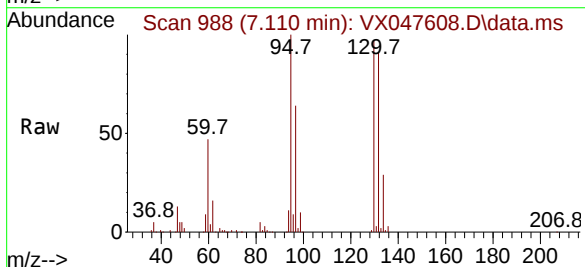
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

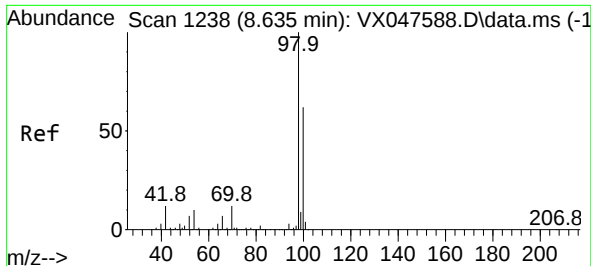
Tgt Ion:117 Resp: 19250
Ion Ratio Lower Upper
117 100
119 4.7 73.4 110.2#
121 0.0 23.8 35.6#



#44
Trichloroethene
Concen: 88.018 ug/l
RT: 7.110 min Scan# 988
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion:130 Resp: 205862
Ion Ratio Lower Upper
130 100
95 103.5 0.0 210.8

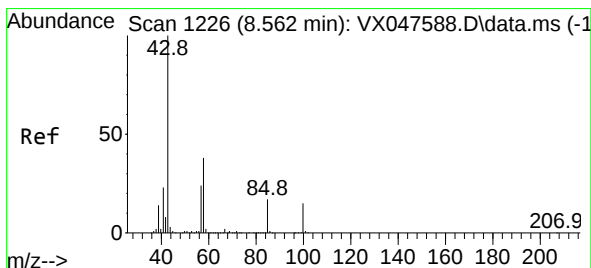
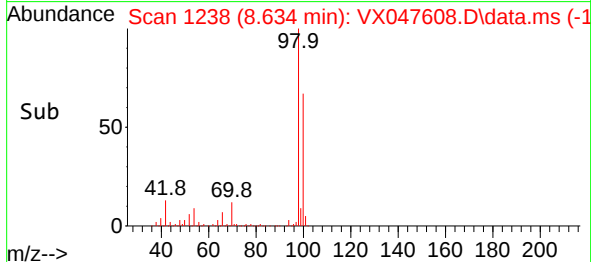
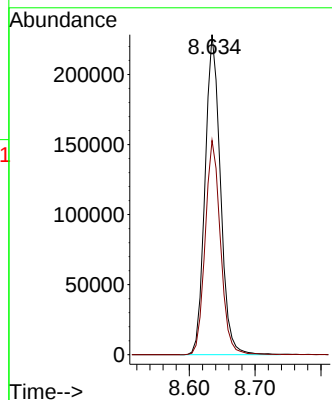
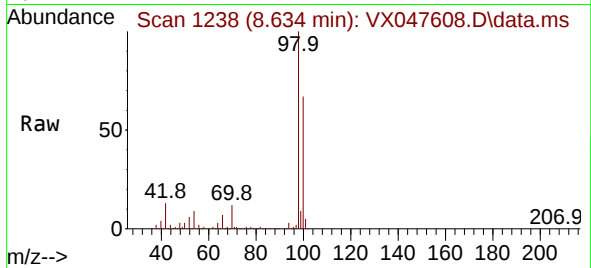




#50
Toluene-d8
Concen: 49.300 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

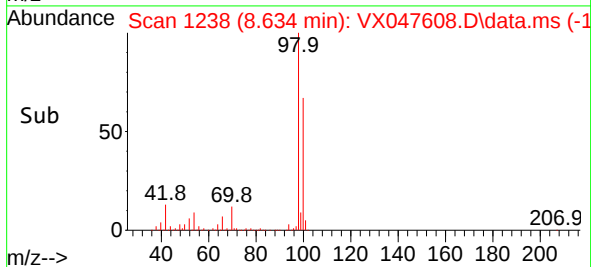
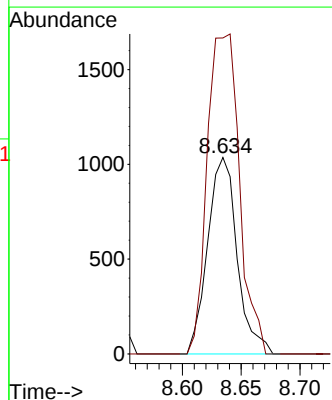
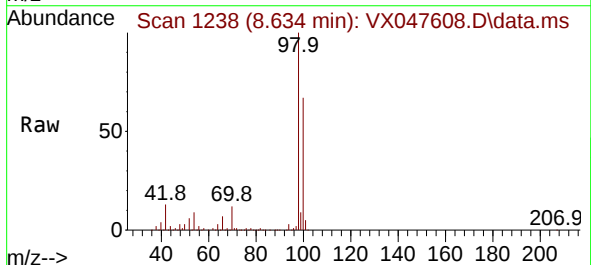
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

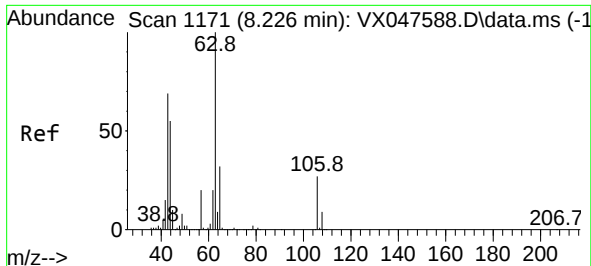
Tgt Ion: 98 Resp: 371842
Ion Ratio Lower Upper
98 100
100 66.7 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 0.584 ug/l
RT: 8.634 min Scan# 1238
Delta R.T. 0.073 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion: 43 Resp: 1810
Ion Ratio Lower Upper
43 100
58 177.9 30.3 45.5#

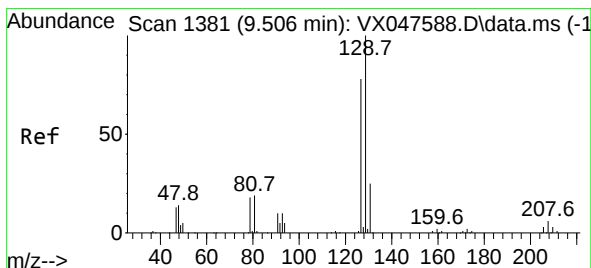
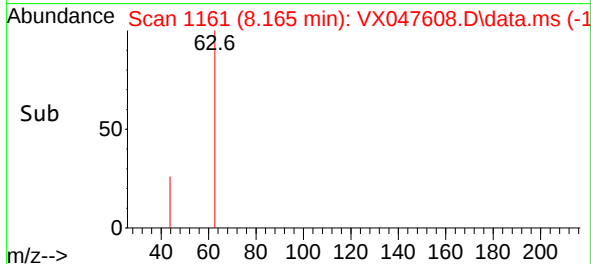
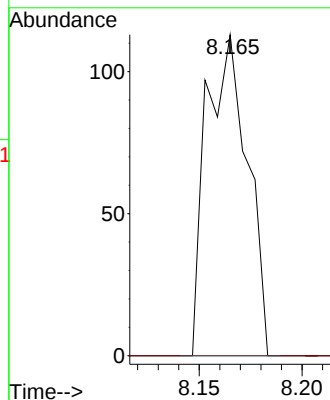
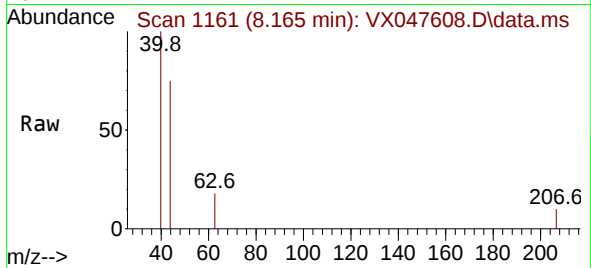




#58
2-Chloroethyl Vinyl ether
Concen: 7.984 ug/l
RT: 8.165 min Scan# 1161
Delta R.T. -0.061 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

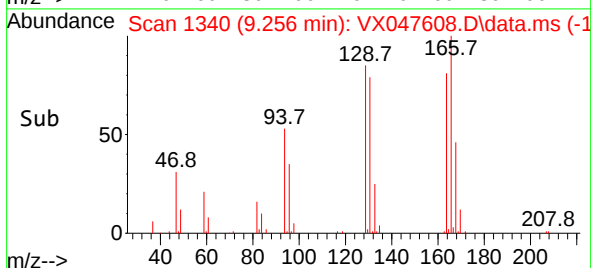
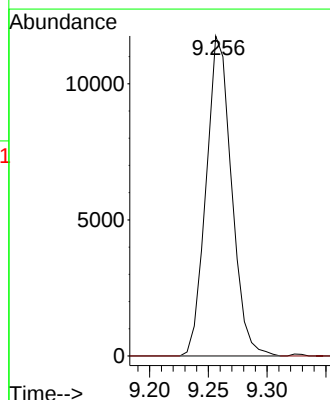
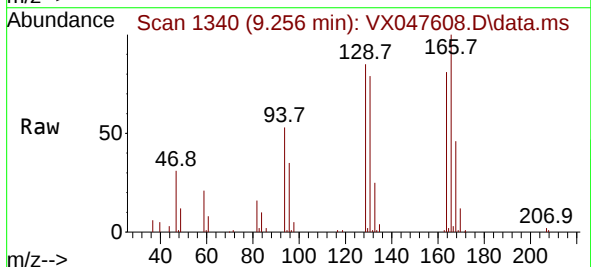
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

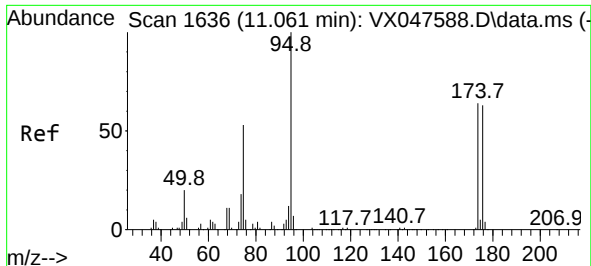
Tgt Ion: 63 Resp: 157
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



#60
Dibromochloromethane
Concen: 6.675 ug/l
RT: 9.256 min Scan# 1340
Delta R.T. -0.250 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion:129 Resp: 17675
Ion Ratio Lower Upper
129 100
127 0.0 38.4 115.2#

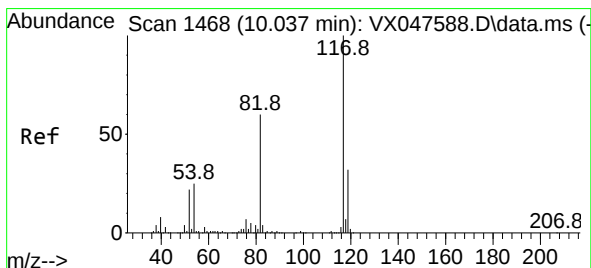
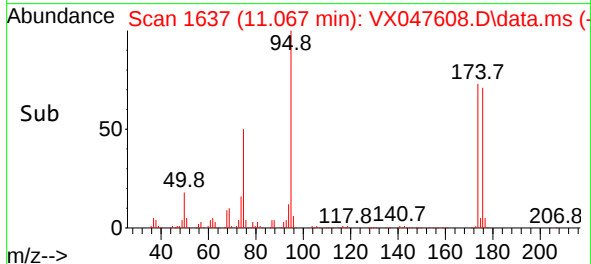
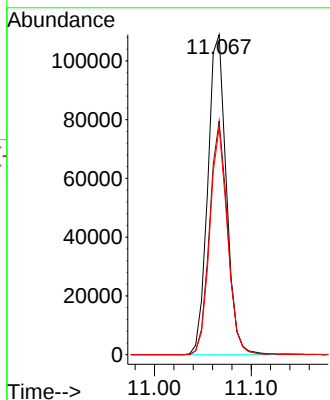
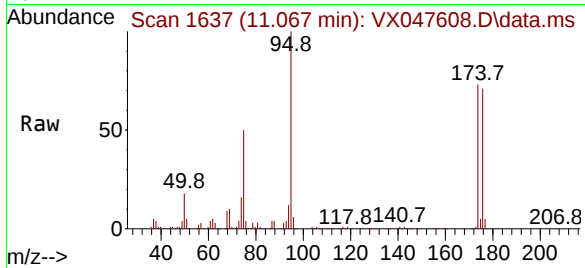




#62
4-Bromofluorobenzene
Concen: 50.682 ug/l
RT: 11.067 min Scan# 1
Delta R.T. 0.006 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

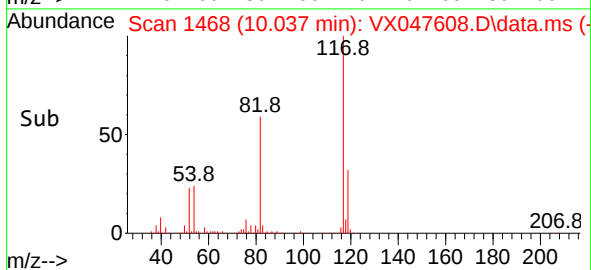
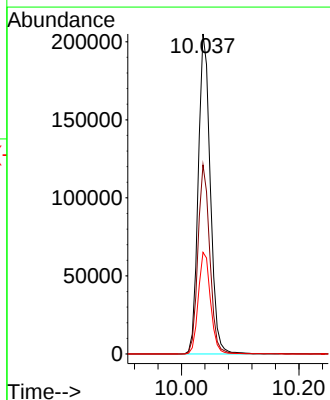
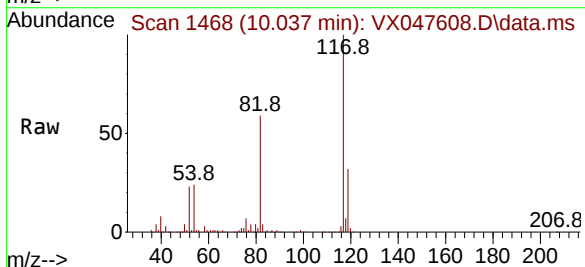
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

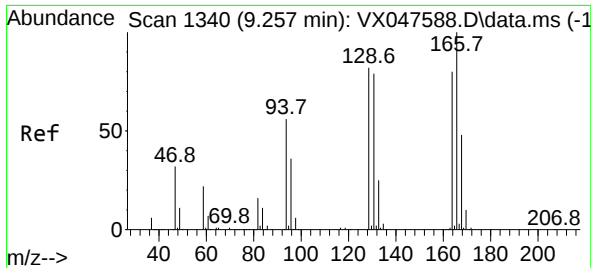
Tgt Ion: 95 Resp: 145076
Ion Ratio Lower Upper
95 100
174 71.2 0.0 141.6
176 68.4 0.0 138.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion: 117 Resp: 290676
Ion Ratio Lower Upper
117 100
82 59.1 47.8 71.6
119 31.7 25.2 37.8

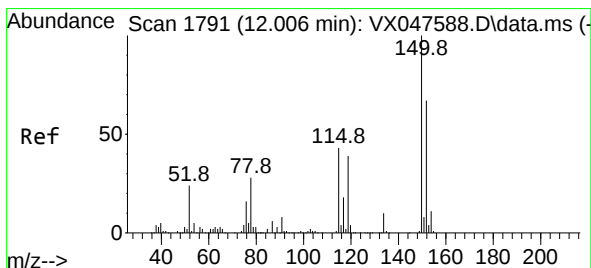
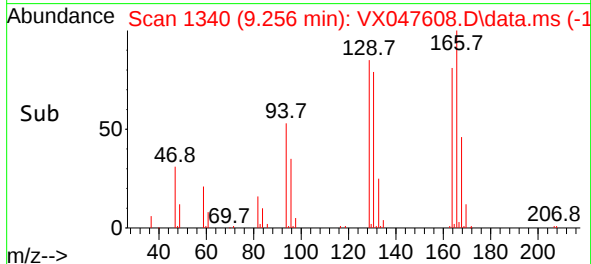
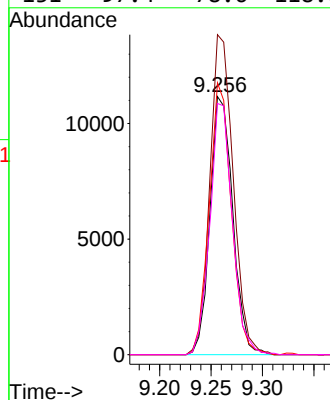
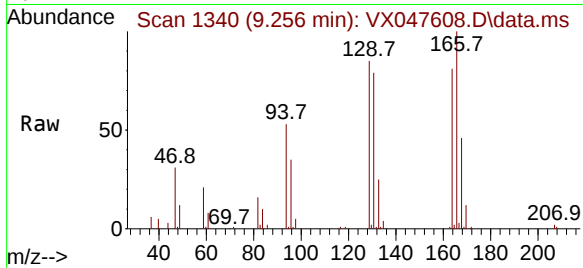




#64
Tetrachloroethene
Concen: 9.085 ug/l
RT: 9.256 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

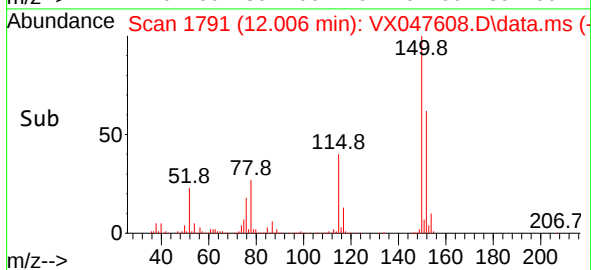
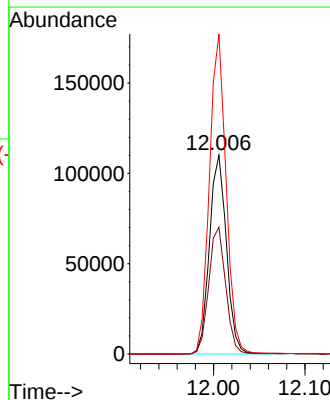
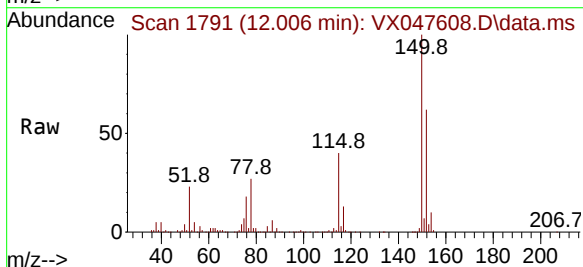
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

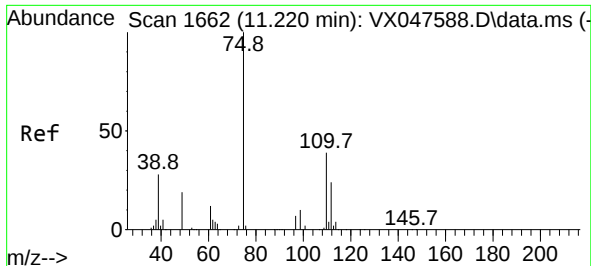
Tgt Ion:164 Resp: 17215
Ion Ratio Lower Upper
164 100
166 124.0 100.2 150.2
129 105.3 81.8 122.6
131 97.4 78.6 118.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

Tgt Ion:152 Resp: 142056
Ion Ratio Lower Upper
152 100
115 63.7 44.9 134.5
150 157.9 0.0 352.0

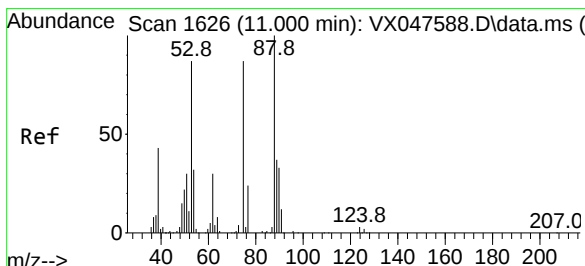
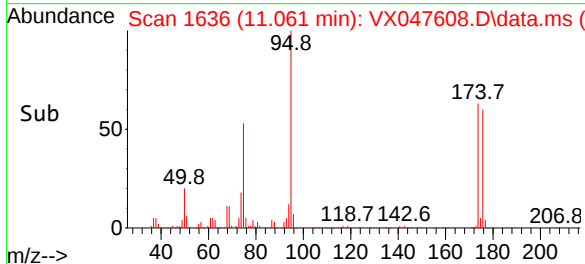
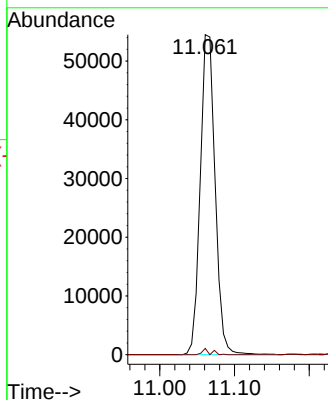
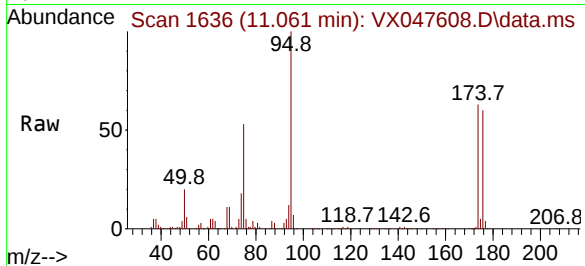




#76
1,2,3-Trichloropropane
Concen: 26.190 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.159 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

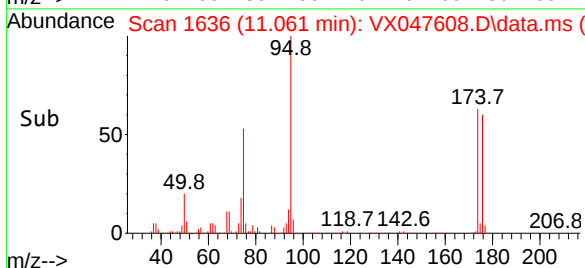
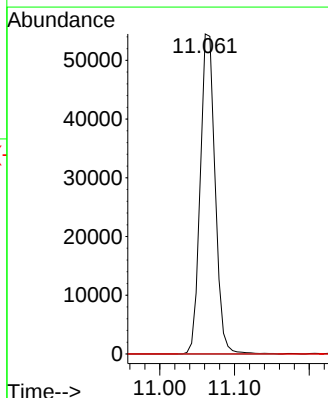
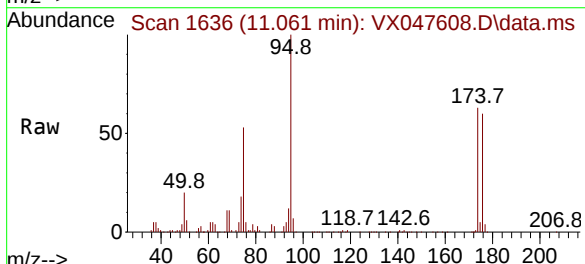
Instrument :
MSVOA_X
ClientSampleId :
MW179D-20250908

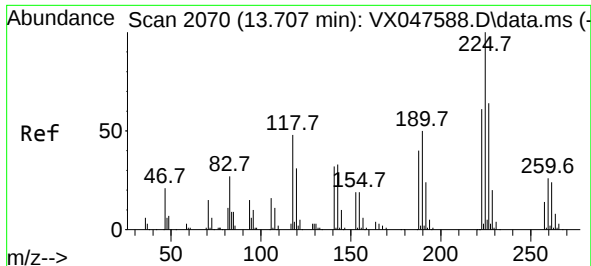
Tgt Ion: 75 Resp: 75327
Ion Ratio Lower Upper
75 100
77 1.0 18.8 56.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.788 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. 0.061 min
Lab File: VX047608.D
Acq: 17 Sep 2025 11:39

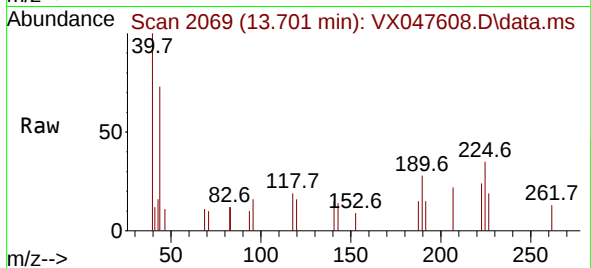
Tgt Ion: 75 Resp: 75327
Ion Ratio Lower Upper
75 100
53 0.0 83.4 125.2#
89 0.0 36.3 54.5#





#94
 Hexachlorobutadiene
 Concen: 0.315 ug/l
 RT: 13.701 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VX047608.D
 Acq: 17 Sep 2025 11:39

Instrument :
 MSVOA_X
 ClientSampleId :
 MW179D-20250908



Tgt Ion:225 Resp: 327
 Ion Ratio Lower Upper
 225 100
 223 80.1 31.7 95.1
 227 54.1 32.0 96.0

