

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081325\
 Data File : VX047318.D
 Acq On : 13 Aug 2025 13:40
 Operator : JC/MD
 Sample : Q2814-07RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-82H-WRE

Quant Time: Aug 14 03:28:26 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.568	168	175507	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.775	114	326793	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	307131	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	157483	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.971	65	135926	62.173	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	=	124.340%#
35) Dibromofluoromethane	5.404	113	116193	57.586	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	115.180%
50) Toluene-d8	8.653	98	310226	47.476	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	=	94.960%
62) 4-Bromofluorobenzene	11.079	95	156459	55.562	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	=	111.120%
Target Compounds						
						Qvalue
3) Chloromethane	1.276	50	29713	12.885	ug/l #	43
10) Methyl Iodide	2.477	142	3896	1.717	ug/l #	93
11) Tert butyl alcohol	2.971	59	3172	2.216	ug/l #	76
16) Acetone	2.398	43	15119	17.263	ug/l	100
17) Carbon Disulfide	2.538	76	13017	2.040	ug/l	98
18) Methyl Acetate	2.703	43	725	0.311	ug/l #	54
20) Methylene Chloride	2.813	84	1004	0.417	ug/l #	92
31) Cyclohexane	5.568	56	3887	0.951	ug/l #	1
36) 1,1-Dichloropropene	5.568	75	14403	4.188	ug/l #	51
38) Carbon Tetrachloride	5.568	117	17828	4.857	ug/l #	18
52) Toluene	8.720	92	237209	38.758	ug/l	100
53) t-1,3-Dichloropropene	8.726	75	2999	0.853	ug/l #	1
67) Ethyl Benzene	10.201	91	5547	0.441	ug/l	99
76) 1,2,3-Trichloropropane	11.079	75	81117	27.828	ug/l #	35
81) trans-1,4-Dichloro-2-b...	11.079	75	81117	71.696	ug/l #	8
92) 1,2-Dibromo-3-Chloropr...	12.768	75	148	0.217	ug/l #	2
94) Hexachlorobutadiene	13.725	225	334	0.275	ug/l	77

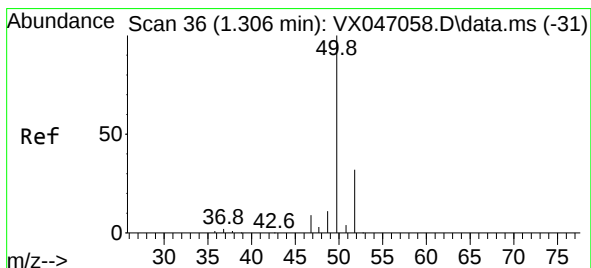
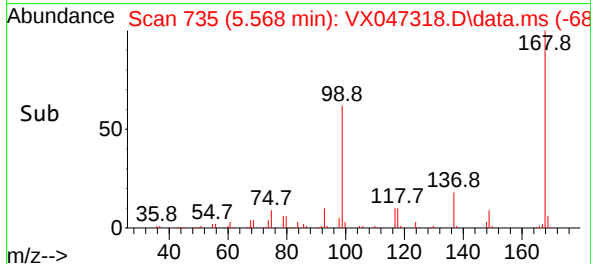
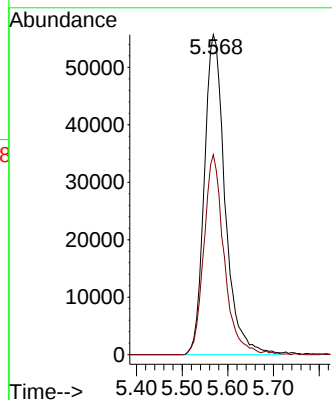
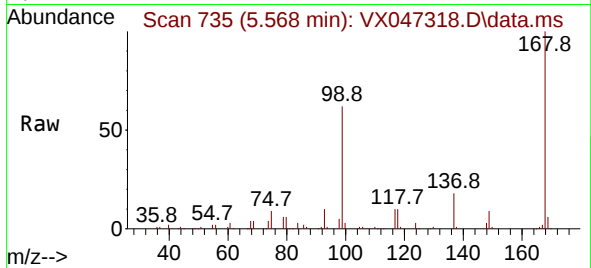
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.006 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

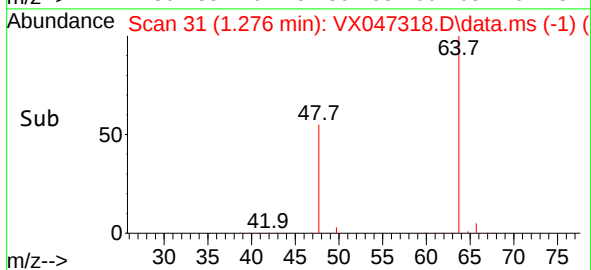
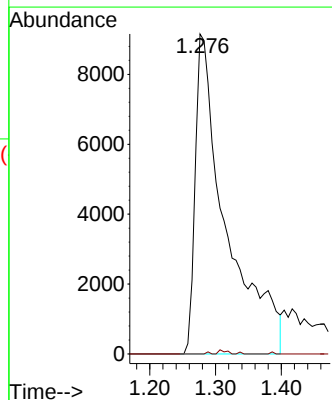
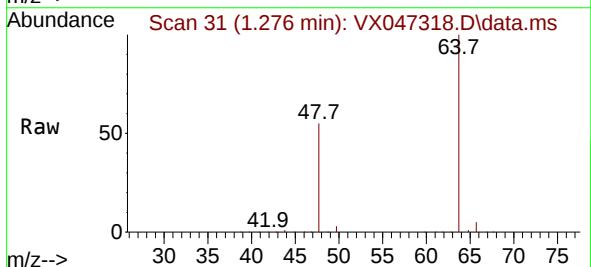
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

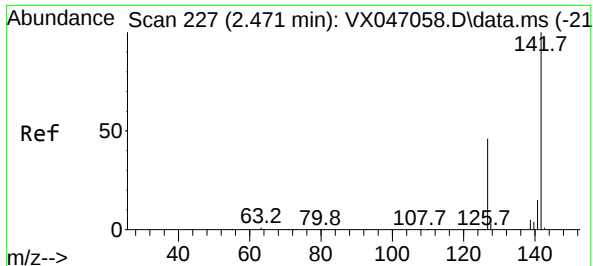
Tgt Ion:168 Resp: 175507
Ion Ratio Lower Upper
168 100
99 62.5 48.0 72.0



#3
Chloromethane
Concen: 12.885 ug/l
RT: 1.276 min Scan# 31
Delta R.T. -0.030 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 50 Resp: 29713
Ion Ratio Lower Upper
50 100
52 0.0 25.4 38.2#

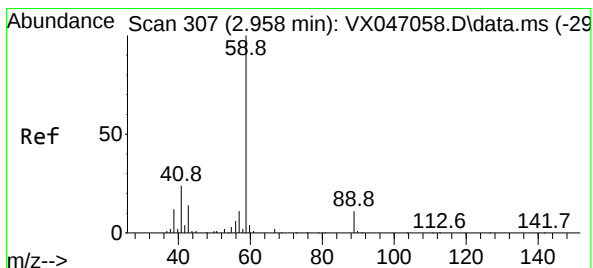
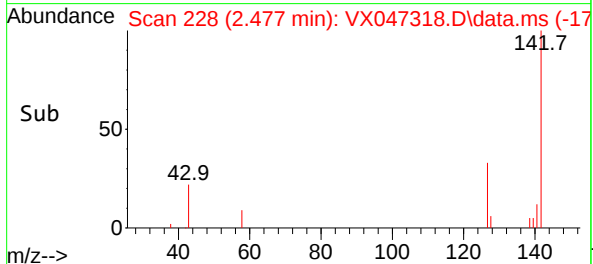
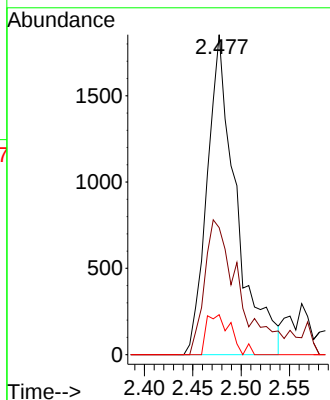
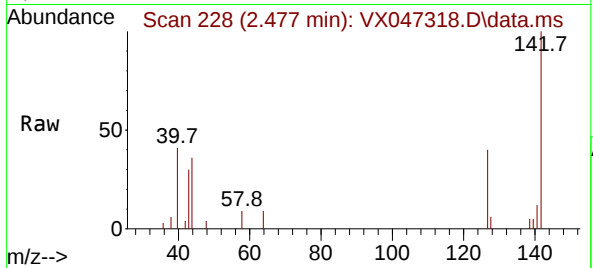




#10
Methyl Iodide
Concen: 1.717 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

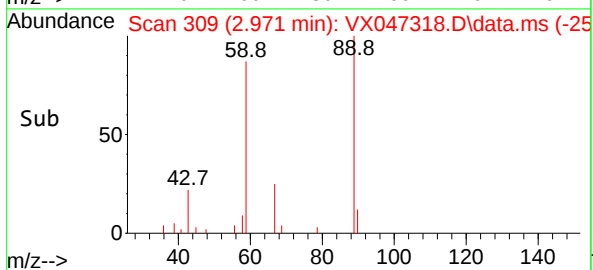
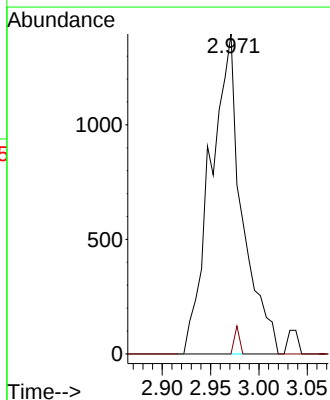
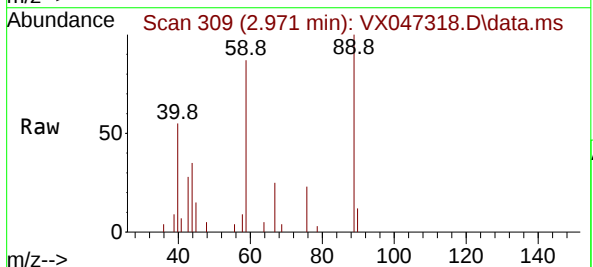
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

Tgt Ion:142 Resp: 3896
Ion Ratio Lower Upper
142 100
127 50.5 36.6 54.8
141 10.4 10.9 16.3#



#11
Tert butyl alcohol
Concen: 2.216 ug/l
RT: 2.971 min Scan# 309
Delta R.T. 0.013 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 59 Resp: 3172
Ion Ratio Lower Upper
59 100
57 1.4 8.5 12.7#

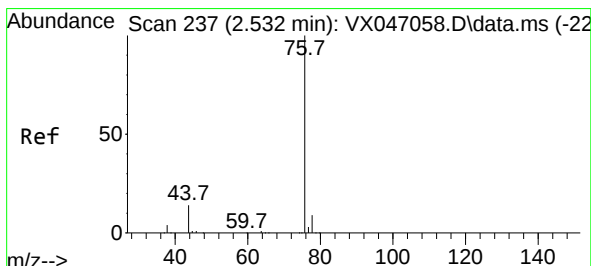
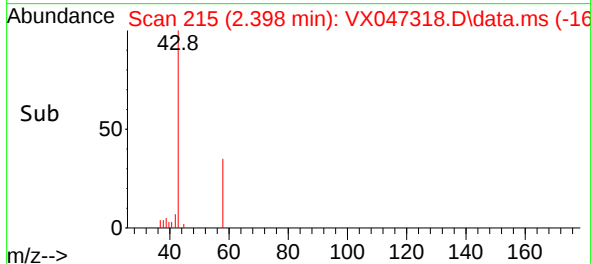
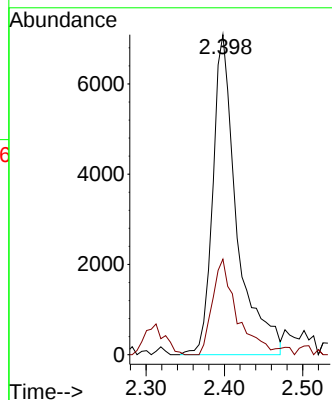
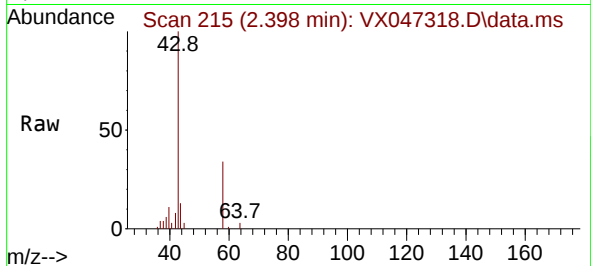




#16
Acetone
Concen: 17.263 ug/l
RT: 2.398 min Scan# 213
Delta R.T. 0.013 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

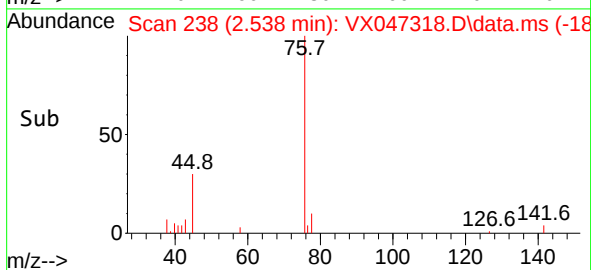
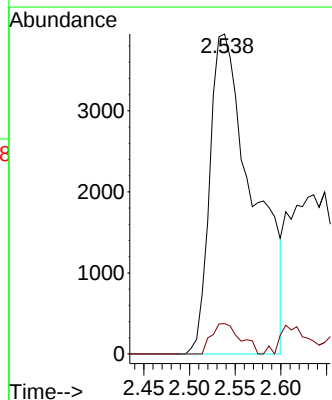
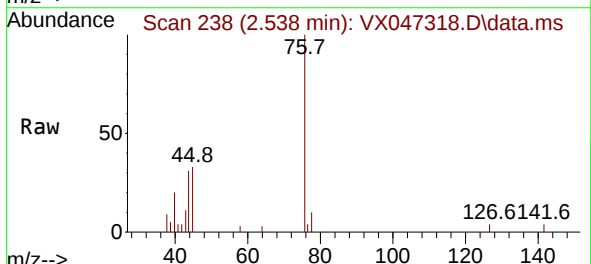
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

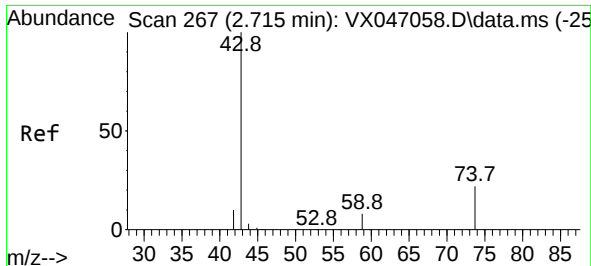
Tgt Ion: 43 Resp: 15119
Ion Ratio Lower Upper
43 100
58 30.3 24.0 36.0



#17
Carbon Disulfide
Concen: 2.040 ug/l
RT: 2.538 min Scan# 238
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 76 Resp: 13017
Ion Ratio Lower Upper
76 100
78 9.5 7.0 10.4

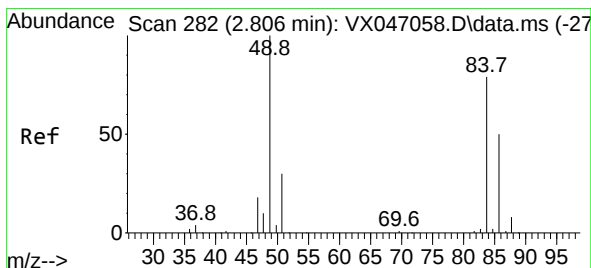
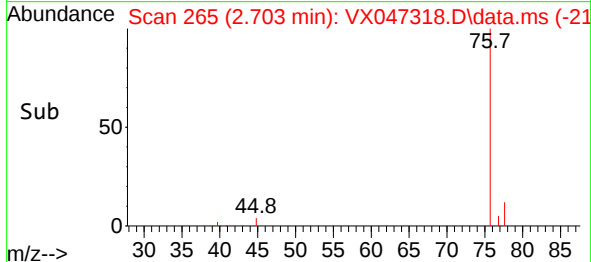
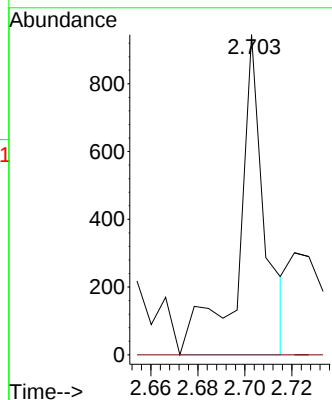
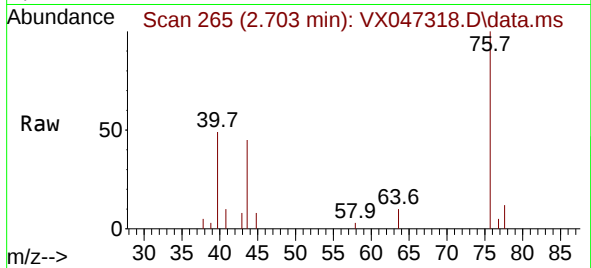




#18
Methyl Acetate
Concen: 0.311 ug/l
RT: 2.703 min Scan# 20
Delta R.T. -0.012 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

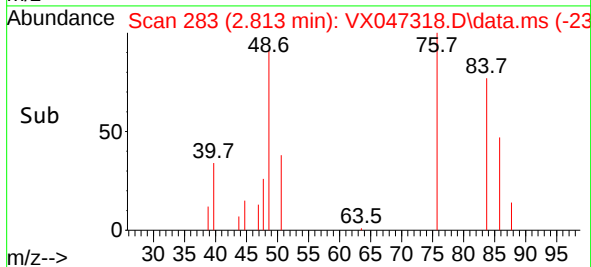
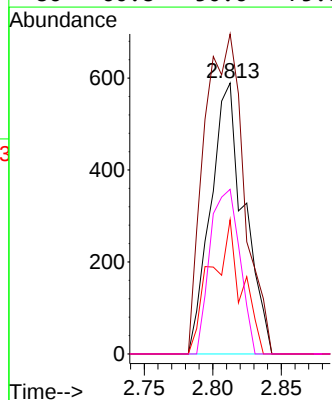
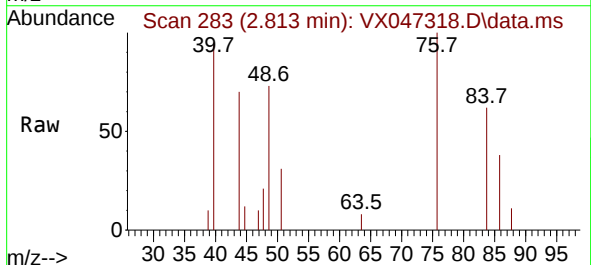
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

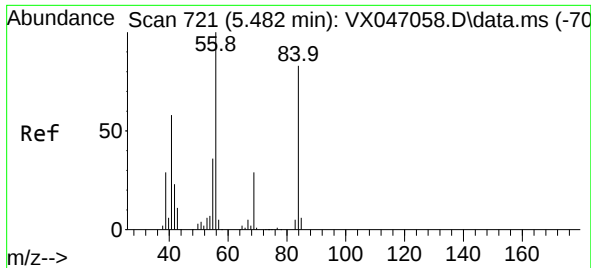
Tgt Ion: 43 Resp: 725
Ion Ratio Lower Upper
43 100
74 0.0 17.7 26.5#



#20
Methylene Chloride
Concen: 0.417 ug/l
RT: 2.813 min Scan# 283
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 84 Resp: 1004
Ion Ratio Lower Upper
84 100
49 118.2 101.6 152.4
51 49.6 30.3 45.5#
86 60.8 50.6 75.8

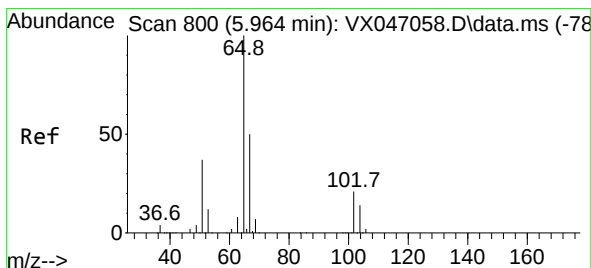
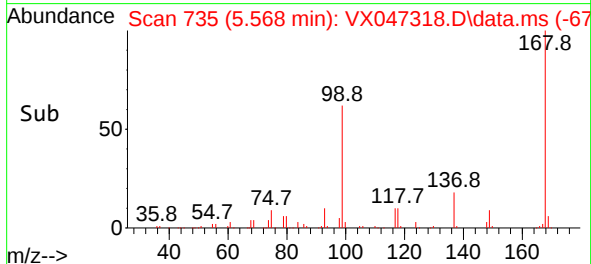
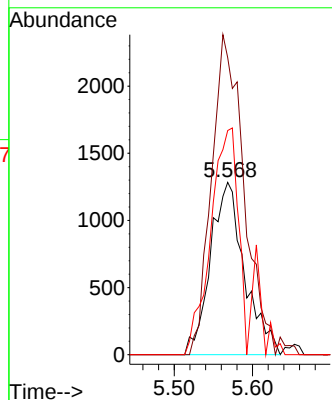
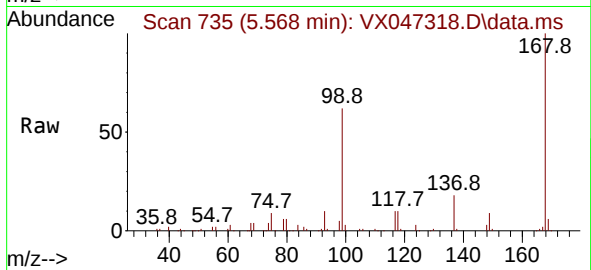




#31
Cyclohexane
Concen: 0.951 ug/l
RT: 5.568 min Scan# 71
Delta R.T. 0.086 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

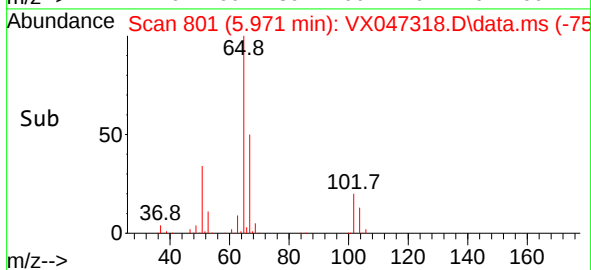
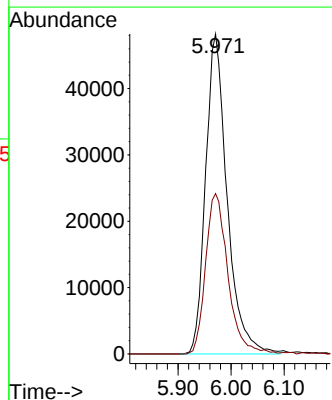
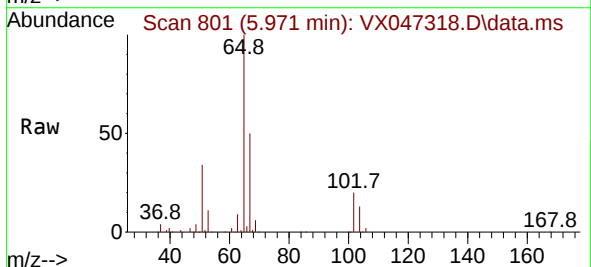
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

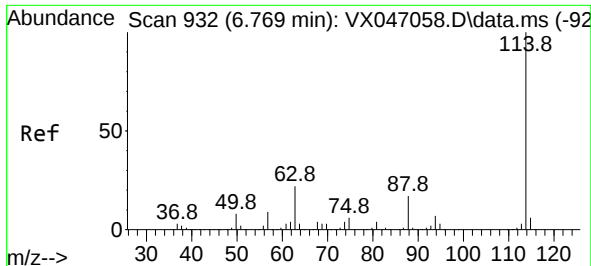
Tgt Ion: 56 Resp: 3887
Ion Ratio Lower Upper
56 100
69 172.2 23.3 34.9#
84 130.0 66.5 99.7#



#33
1,2-Dichloroethane-d4
Concen: 62.173 ug/l
RT: 5.971 min Scan# 801
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 65 Resp: 135926
Ion Ratio Lower Upper
65 100
67 52.0 0.0 104.8

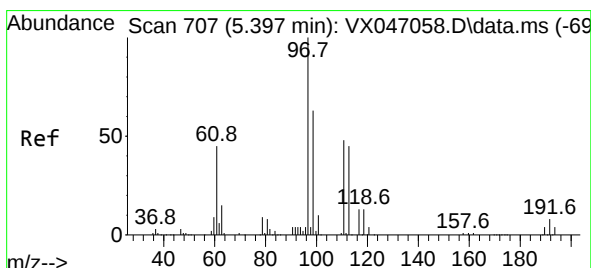
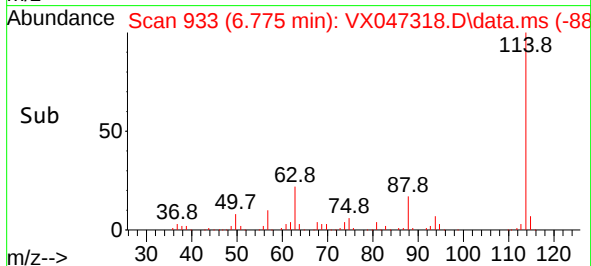
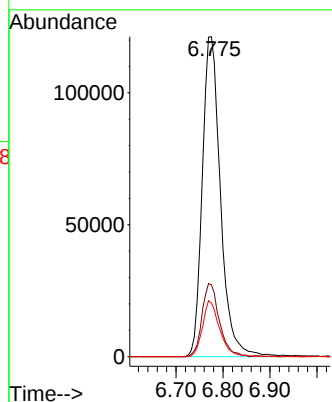
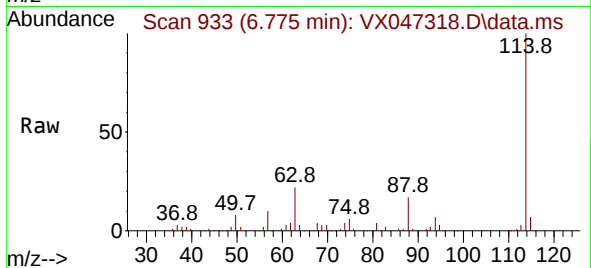




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.775 min Scan# 911
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

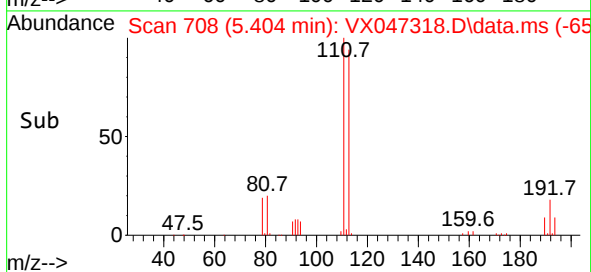
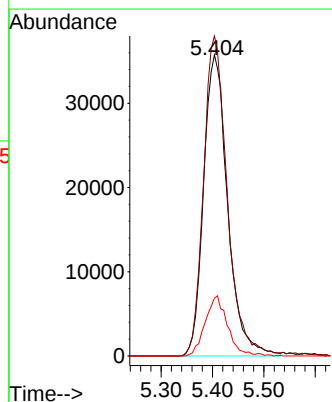
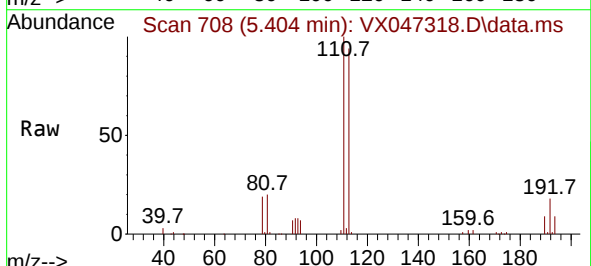
Instrument :
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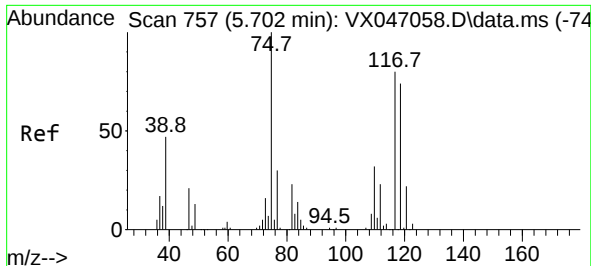
Tgt Ion:114 Resp: 326793
Ion Ratio Lower Upper
114 100
63 22.5 0.0 43.2
88 16.7 0.0 33.8



#35
Dibromofluoromethane
Concen: 57.586 ug/l
RT: 5.404 min Scan# 708
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion:113 Resp: 116193
Ion Ratio Lower Upper
113 100
111 104.8 82.6 124.0
192 18.3 14.9 22.3





#36

1,1-Dichloropropene

Concen: 4.188 ug/l

RT: 5.568 min Scan# 71

Delta R.T. -0.134 min

Lab File: VX047318.D

Acq: 13 Aug 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

TW-82H-WRE

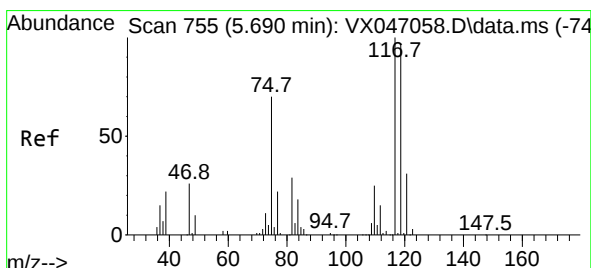
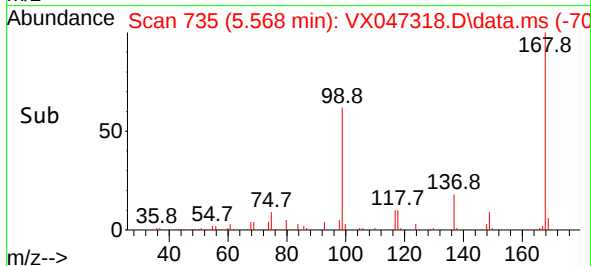
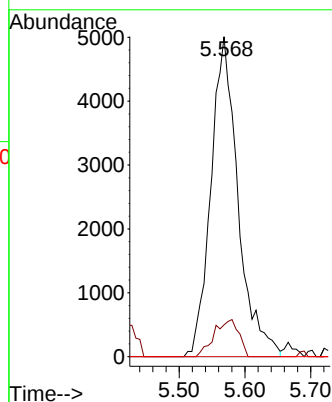
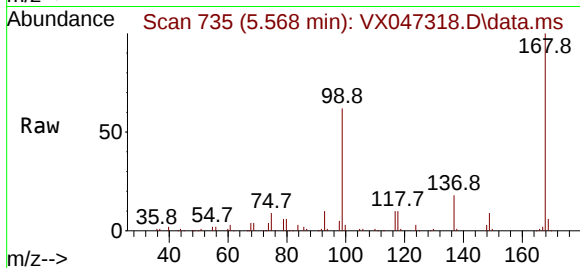
Tgt Ion: 75 Resp: 14403

Ion Ratio Lower Upper

75 100

110 10.5 17.2 51.5#

77 0.0 25.1 37.7#



#38

Carbon Tetrachloride

Concen: 4.857 ug/l

RT: 5.568 min Scan# 735

Delta R.T. -0.121 min

Lab File: VX047318.D

Acq: 13 Aug 2025 13:40

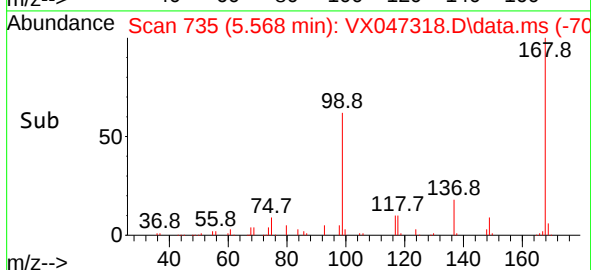
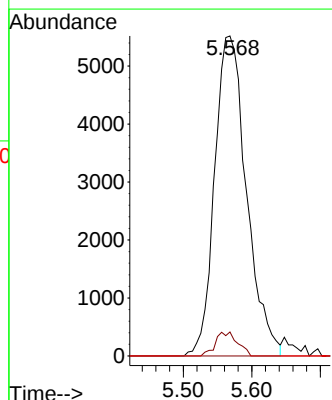
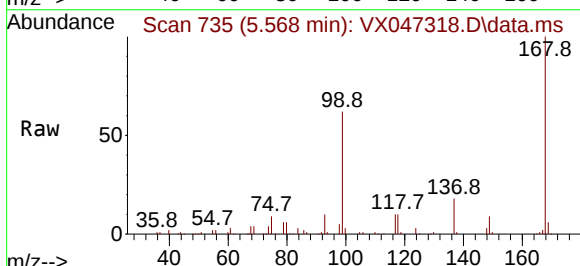
Tgt Ion: 117 Resp: 17828

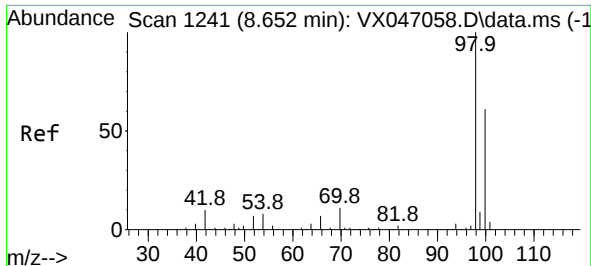
Ion Ratio Lower Upper

117 100

119 7.5 76.6 115.0#

121 0.0 24.4 36.6#

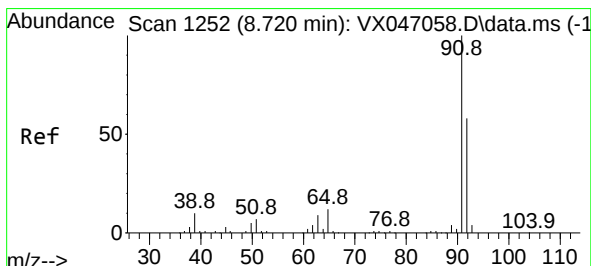
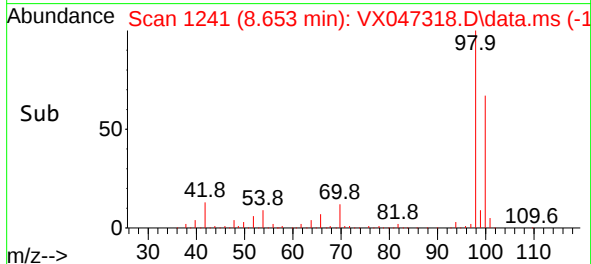
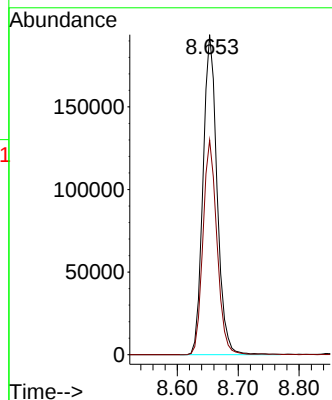
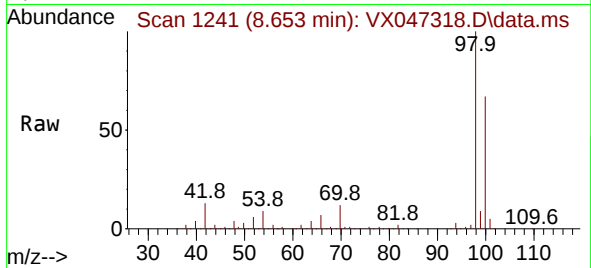




#50
Toluene-d8
Concen: 47.476 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

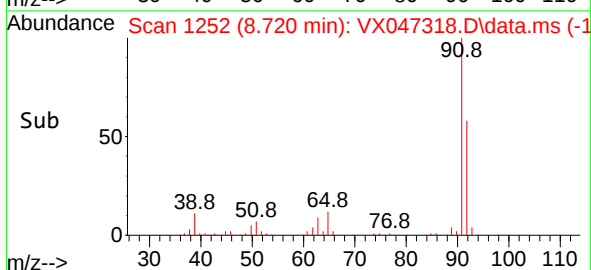
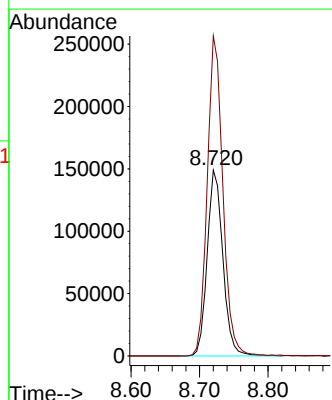
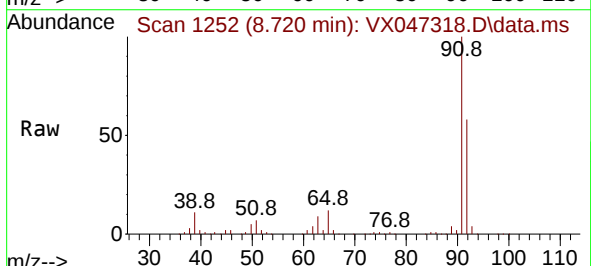
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

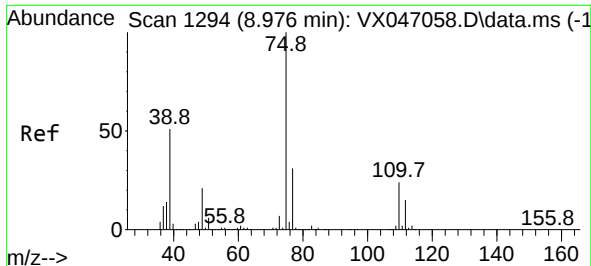
Tgt Ion: 98 Resp: 310226
Ion Ratio Lower Upper
98 100
100 66.7 53.3 79.9



#52
Toluene
Concen: 38.758 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 92 Resp: 237209
Ion Ratio Lower Upper
92 100
91 171.9 137.9 206.9

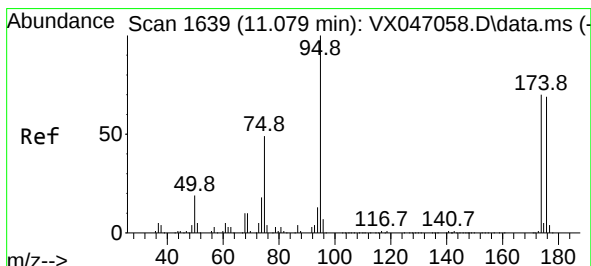
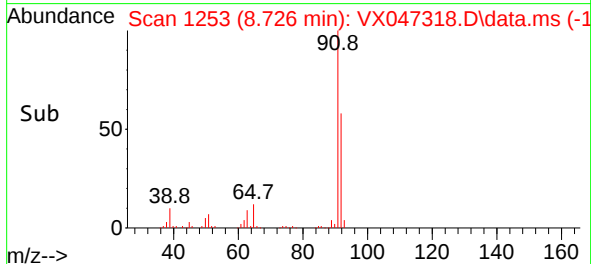
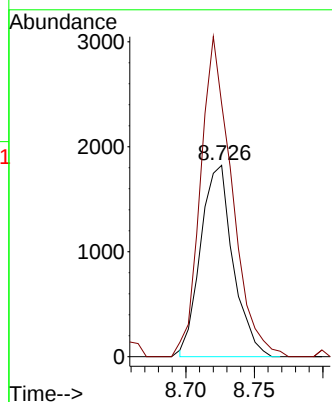
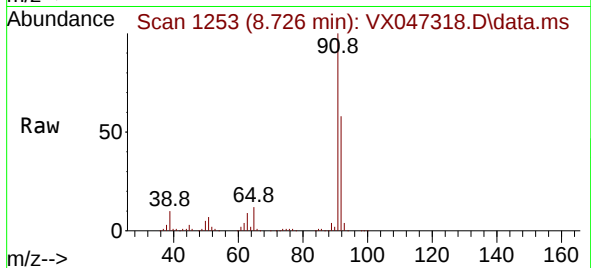




#53
t-1,3-Dichloropropene
Concen: 0.853 ug/l
RT: 8.726 min Scan# 11
Delta R.T. -0.249 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

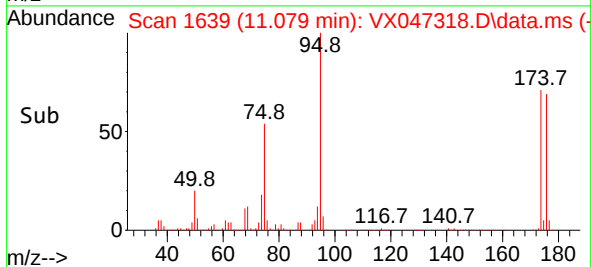
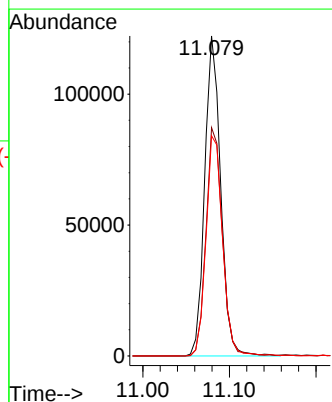
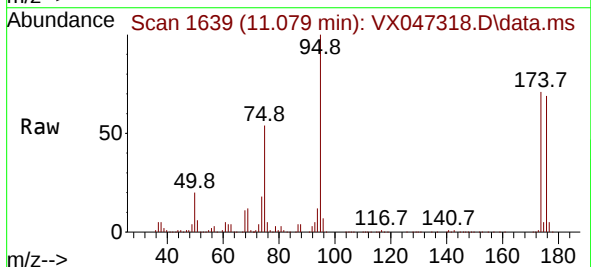
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

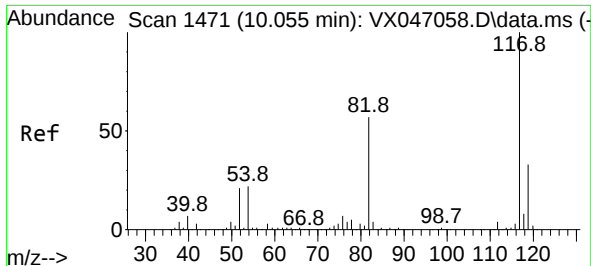
Tgt Ion: 75 Resp: 2999
Ion Ratio Lower Upper
75 100
77 129.2 24.5 36.7#



#62
4-Bromofluorobenzene
Concen: 55.562 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 95 Resp: 156459
Ion Ratio Lower Upper
95 100
174 73.3 0.0 144.6
176 71.8 0.0 139.6

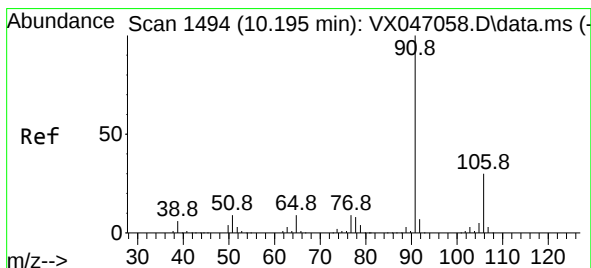
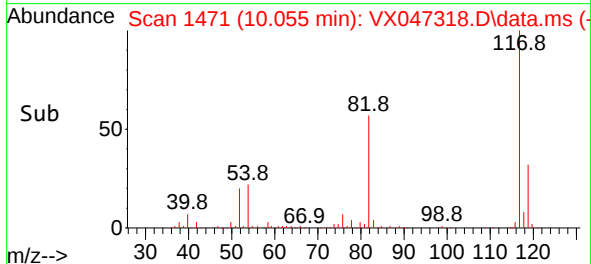
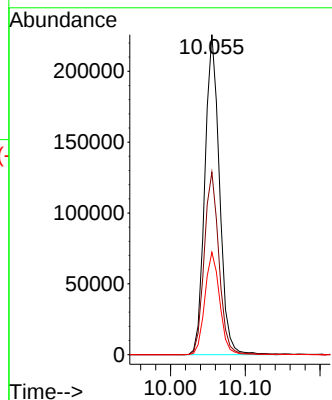
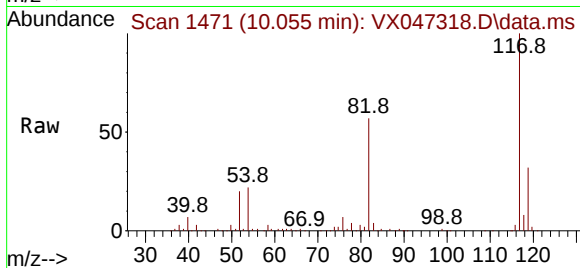




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

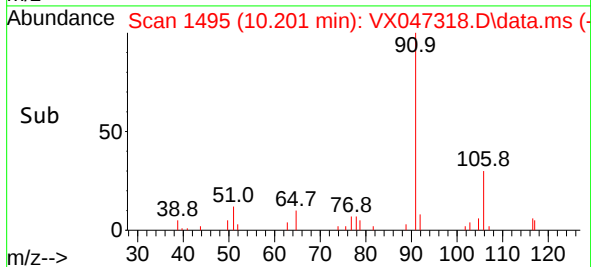
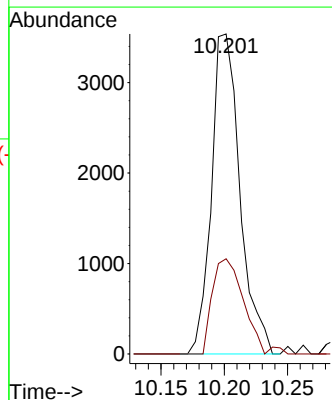
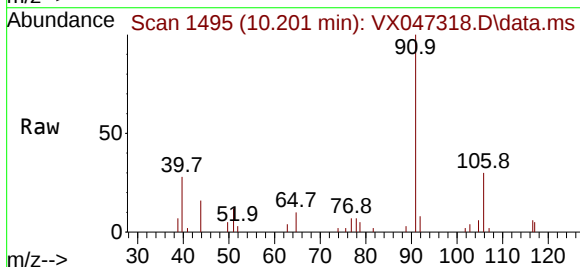
Instrument :
MSVOA_X
ClientSampleId :
TW-82H-WRE

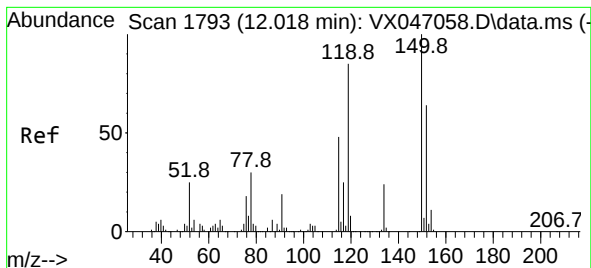
Tgt Ion:117 Resp: 307131
Ion Ratio Lower Upper
117 100
82 57.0 45.4 68.2
119 32.0 26.1 39.1



#67
Ethyl Benzene
Concen: 0.441 ug/l
RT: 10.201 min Scan# 1495
Delta R.T. 0.007 min
Lab File: VX047318.D
Acq: 13 Aug 2025 13:40

Tgt Ion: 91 Resp: 5547
Ion Ratio Lower Upper
91 100
106 29.8 24.2 36.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX047318.D

Acq: 13 Aug 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

TW-82H-WRE

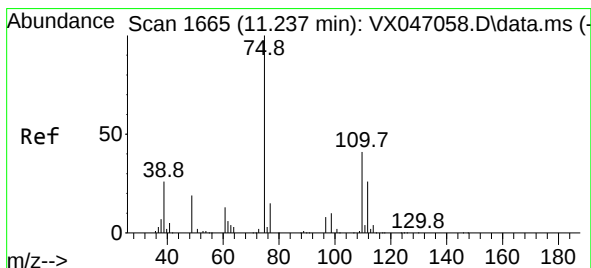
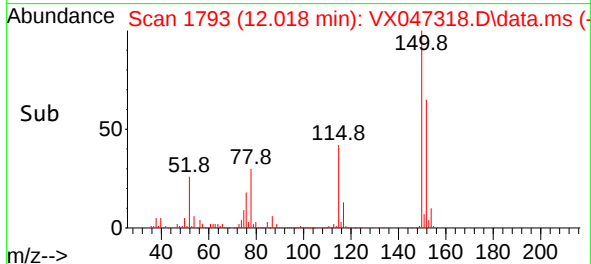
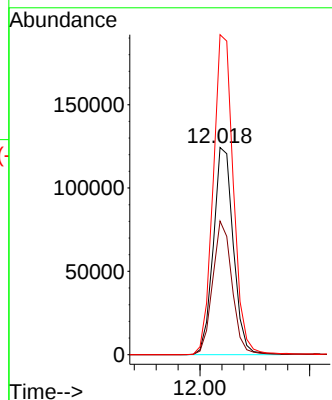
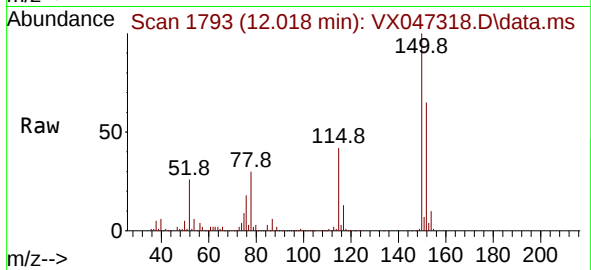
Tgt Ion:152 Resp: 157483

Ion Ratio Lower Upper

152 100

115 62.5 45.6 136.7

150 156.8 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 27.828 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047318.D

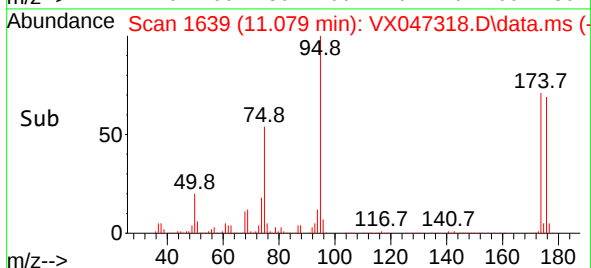
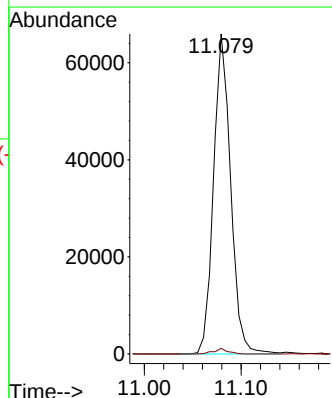
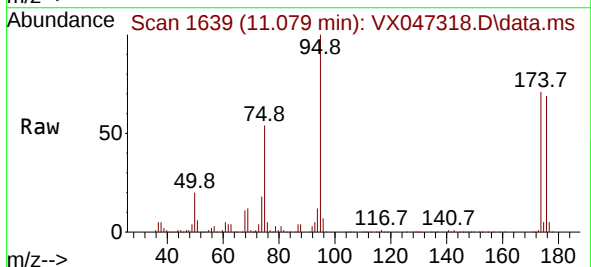
Acq: 13 Aug 2025 13:40

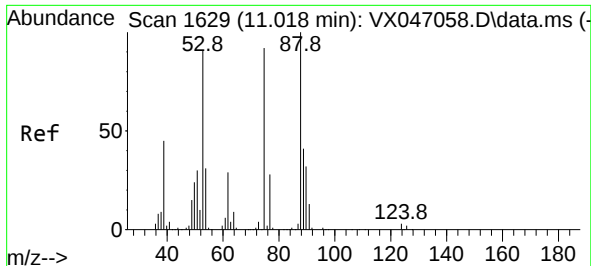
Tgt Ion: 75 Resp: 81117

Ion Ratio Lower Upper

75 100

77 1.4 21.6 65.0#

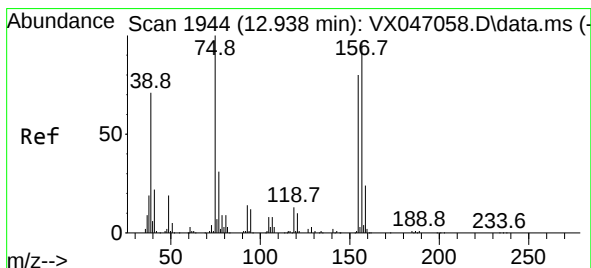
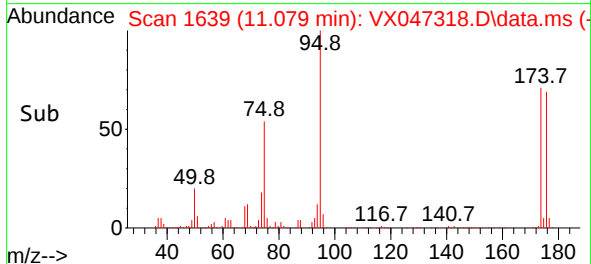
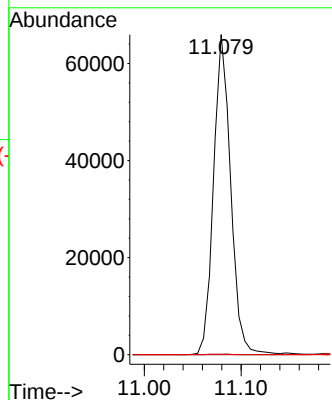
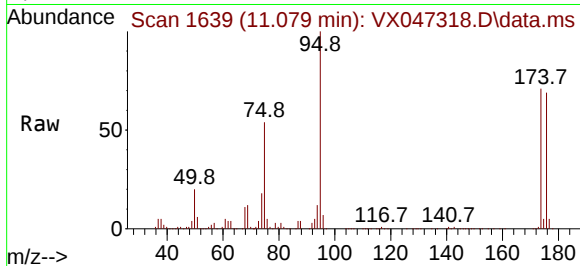




#81
 trans-1,4-Dichloro-2-butene
 Concen: 71.696 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX047318.D
 Acq: 13 Aug 2025 13:40

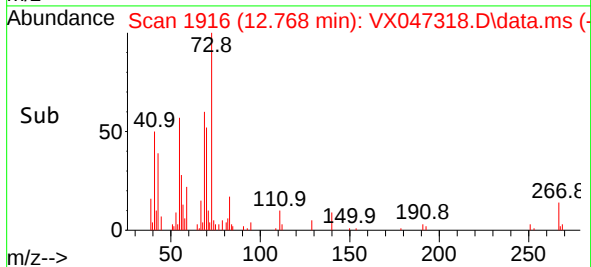
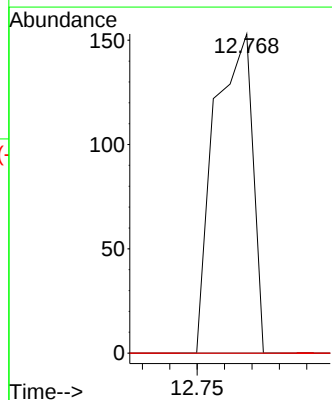
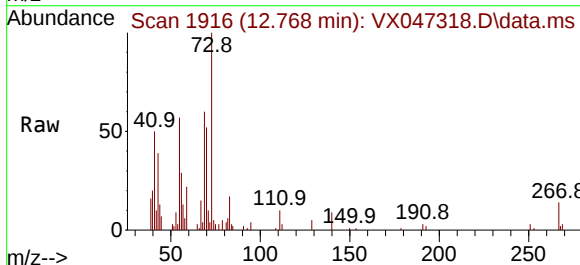
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-82H-WRE

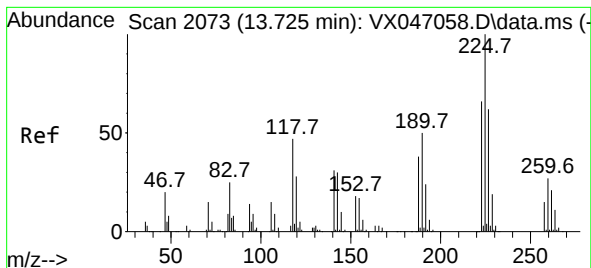
Tgt Ion: 75 Resp: 81117
 Ion Ratio Lower Upper
 75 100
 53 0.2 84.2 126.4#
 89 0.0 36.0 54.0#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.217 ug/l
 RT: 12.768 min Scan# 1916
 Delta R.T. -0.170 min
 Lab File: VX047318.D
 Acq: 13 Aug 2025 13:40

Tgt Ion: 75 Resp: 148
 Ion Ratio Lower Upper
 75 100
 155 0.0 41.3 124.1#
 157 0.0 52.8 158.3#





#94

Hexachlorobutadiene

Concen: 0.275 ug/l

RT: 13.725 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX047318.D

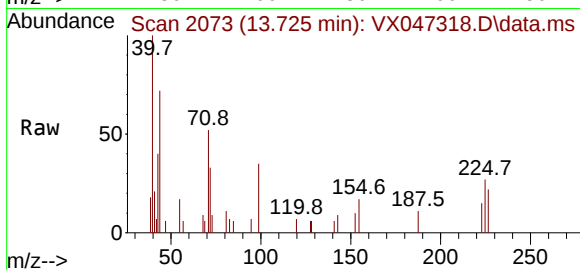
Acq: 13 Aug 2025 13:40

Instrument :

MSVOA_X

ClientSampleId :

TW-82H-WRE



Tgt Ion:	225	Resp:	334
Ion	Ratio	Lower	Upper
225	100		
223	50.3	31.6	95.0
227	42.8	32.9	98.6

