

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX081925\
 Data File : VX047406.D
 Acq On : 19 Aug 2025 12:59
 Operator : JC/MD
 Sample : Q2815-12RE
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-S

Quant Time: Aug 20 01:25:12 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
 Quant Title : SW846 8260
 QLast Update : Mon Aug 18 04:18:28 2025
 Response via : Initial Calibration

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

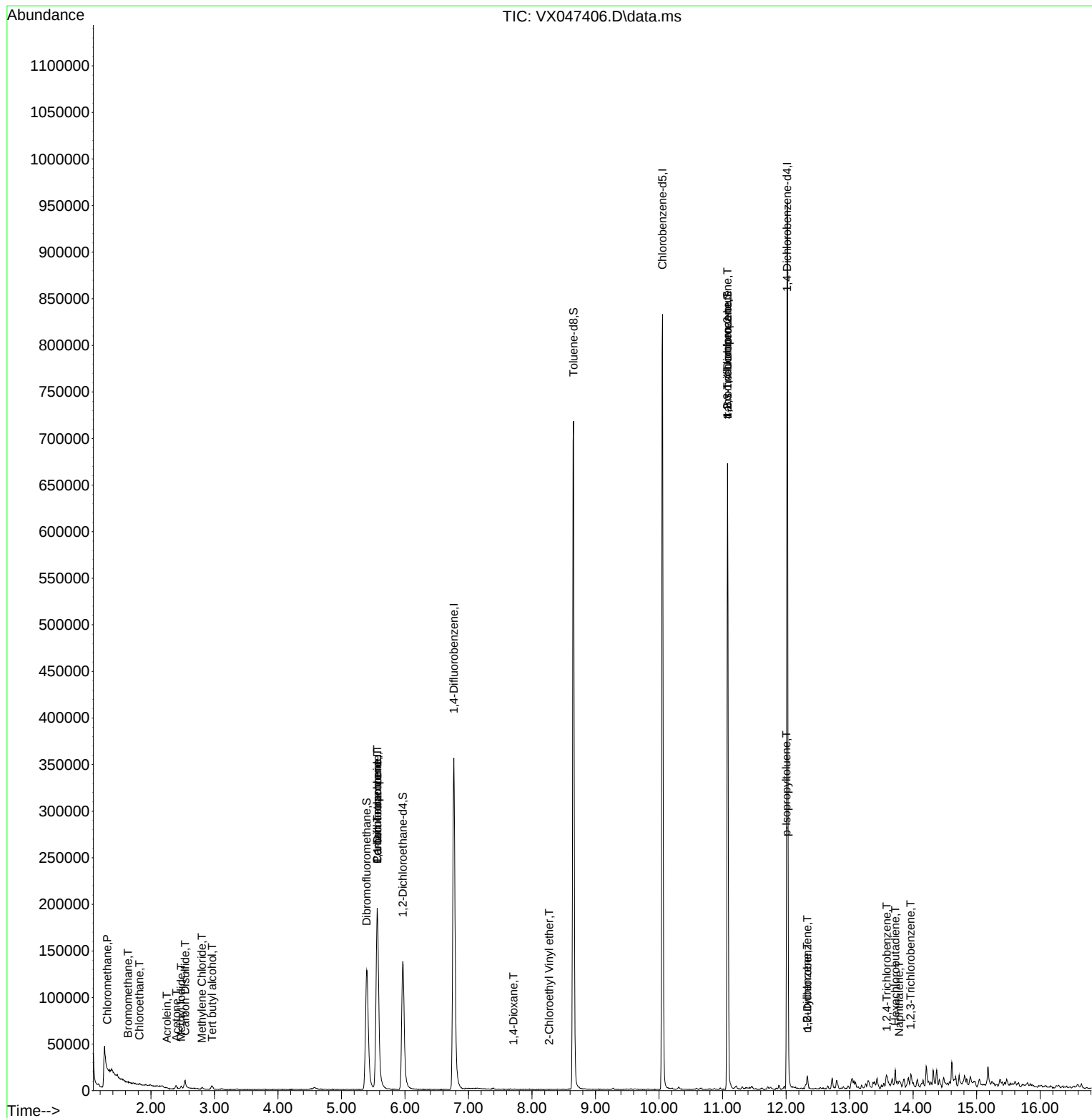
Internal Standards						
1) Pentafluorobenzene	5.562	168	192217	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	378823	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	378260	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	187039	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	148535	55.215	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 110.420%	
35) Dibromofluoromethane	5.397	113	125348	50.984	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.960%	
50) Toluene-d8	8.653	98	438277	49.874	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 99.740%	
62) 4-Bromofluorobenzene	11.079	95	179486	55.349	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 110.700%	
Target Compounds						
					Qvalue	
3) Chloromethane	1.313	50	588	0.267	ug/l	94
5) Bromomethane	1.636	94	247	0.221	ug/l	82
6) Chloroethane	1.819	64	1327	0.784	ug/l #	58
10) Methyl Iodide	2.477	142	4419	1.086	ug/l	98
11) Tert butyl alcohol	2.965	59	1922	8.213	ug/l #	76
13) Acrolein	2.252	56	263	0.532	ug/l	90
16) Acetone	2.398	43	5746	5.683	ug/l #	87
17) Carbon Disulfide	2.538	76	9106	1.247	ug/l #	93
20) Methylene Chloride	2.800	84	911	0.340	ug/l #	49
36) 1,1-Dichloropropene	5.562	75	16414	4.229	ug/l #	49
38) Carbon Tetrachloride	5.562	117	20070	4.732	ug/l #	13
49) 1,4-Dioxane	7.708	88	25	0.856	ug/l #	22
58) 2-Chloroethyl Vinyl ether	8.269	63	27	8.369	ug/l #	46
76) 1,2,3-Trichloropropane	11.079	75	92585	26.989	ug/l #	38
81) trans-1,4-Dichloro-2-b...	11.079	75	92585	106.727	ug/l #	7
86) p-Isopropyltoluene	12.006	119	2653	0.211	ug/l	87
89) n-Butylbenzene	12.329	91	3604	0.307	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	2658	0.410	ug/l	99
93) 1,2,4-Trichlorobenzene	13.585	180	1683	0.387	ug/l #	79
94) Hexachlorobutadiene	13.719	225	1767	1.143	ug/l	96
95) Naphthalene	13.780	128	3889	0.313	ug/l #	96
96) 1,2,3-Trichlorobenzene	13.963	180	1681	0.410	ug/l #	16

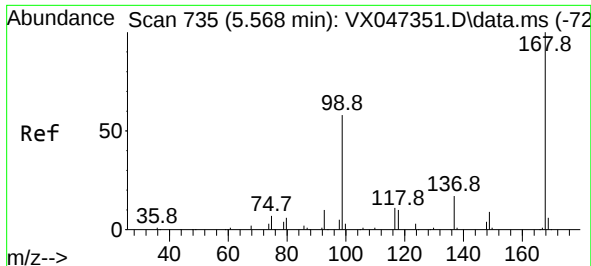
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Aug 20 01:25:12 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X081525W.M
Quant Title : SW846 8260
QLast Update : Mon Aug 18 04:18:28 2025
Response via : Initial Calibration





#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

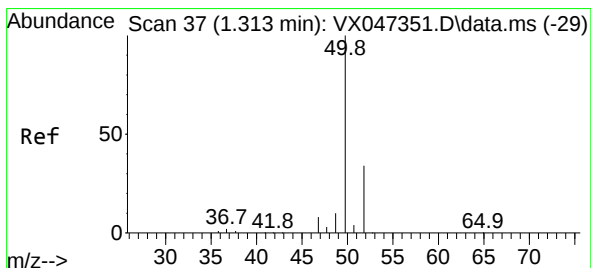
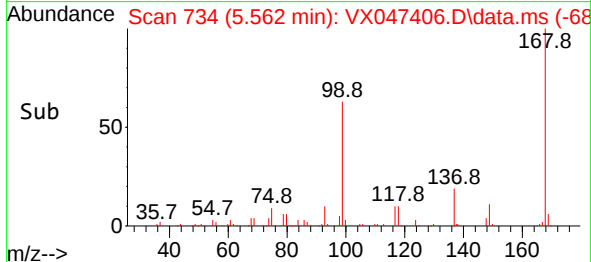
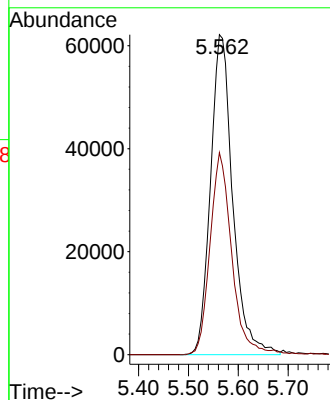
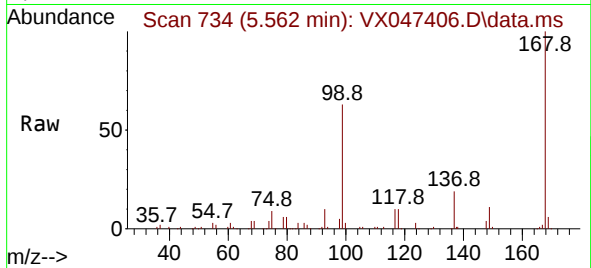
Instrument :

MSVOA_X

ClientSampleId :

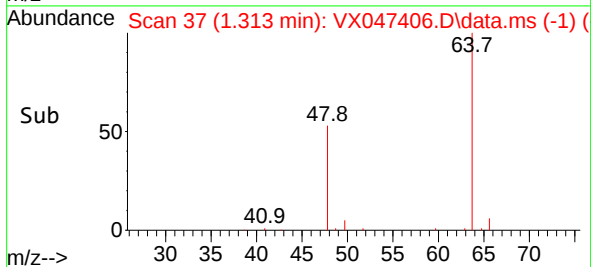
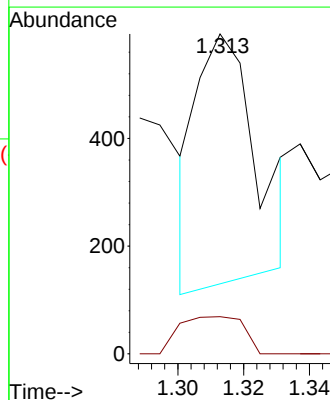
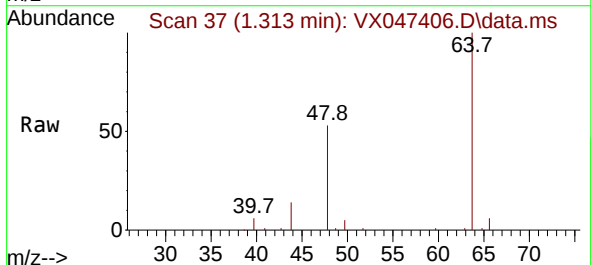
TW-22M-S

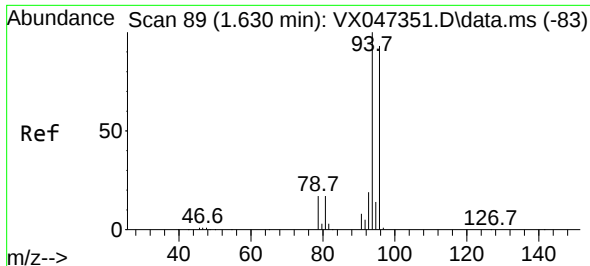
Tgt Ion:168 Resp: 192217
Ion Ratio Lower Upper
168 100
99 63.1 47.9 71.9



#3
Chloromethane
Concen: 0.267 ug/l
RT: 1.313 min Scan# 37
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 50 Resp: 588
Ion Ratio Lower Upper
50 100
52 30.1 27.0 40.4

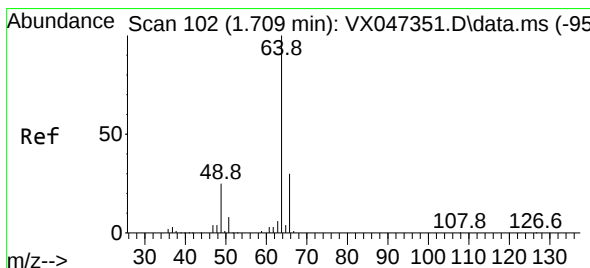
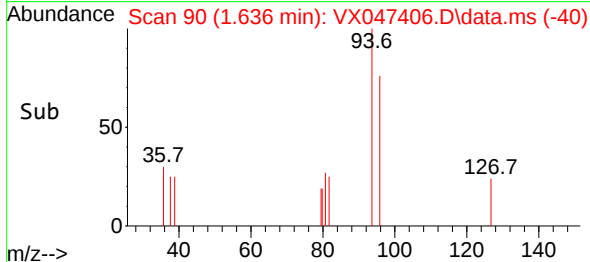
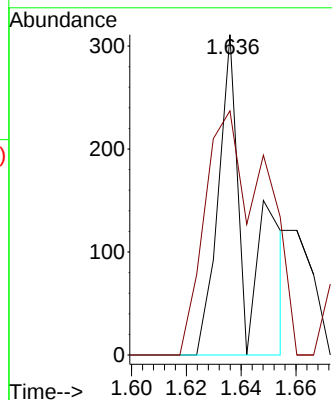
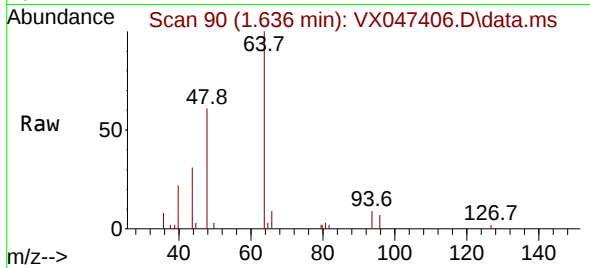




#5
Bromomethane
Concen: 0.221 ug/l
RT: 1.636 min Scan# 90
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

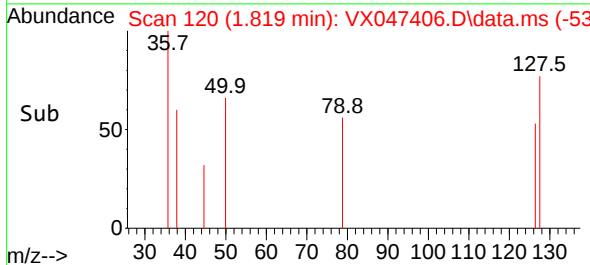
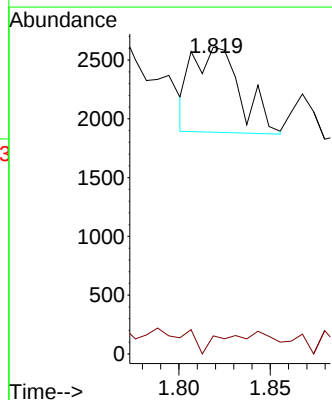
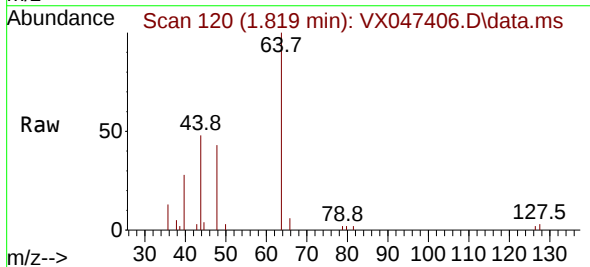
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

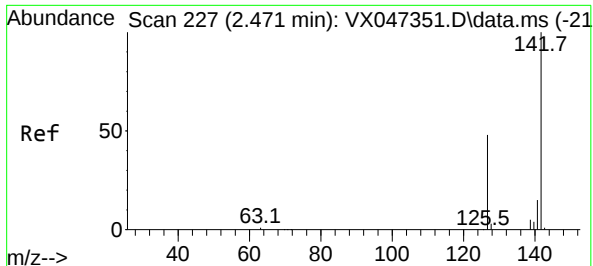
Tgt Ion: 94 Resp: 247
Ion Ratio Lower Upper
94 100
96 76.2 74.7 112.1



#6
Chloroethane
Concen: 0.784 ug/l
RT: 1.819 min Scan# 120
Delta R.T. 0.110 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 64 Resp: 1327
Ion Ratio Lower Upper
64 100
66 7.4 24.4 36.6#

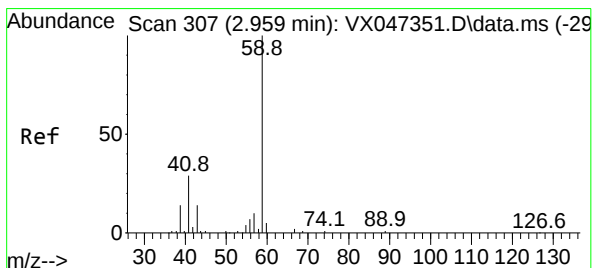
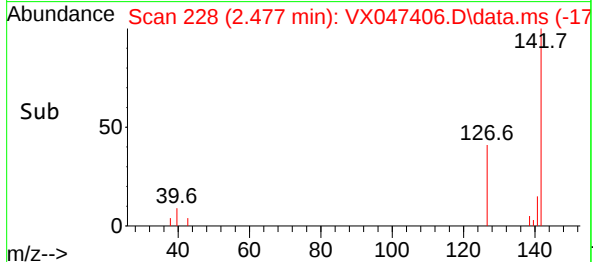
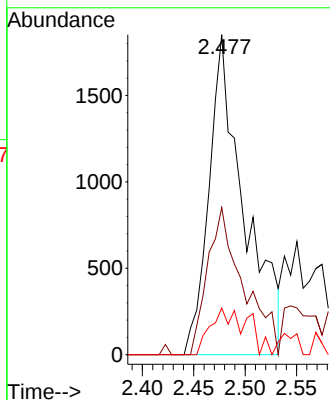
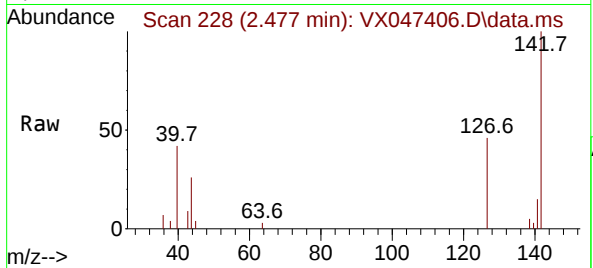




#10
Methyl Iodide
Concen: 1.086 ug/l
RT: 2.477 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

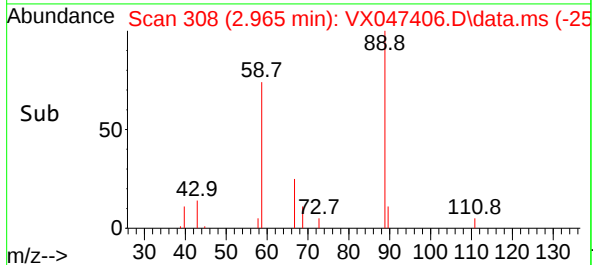
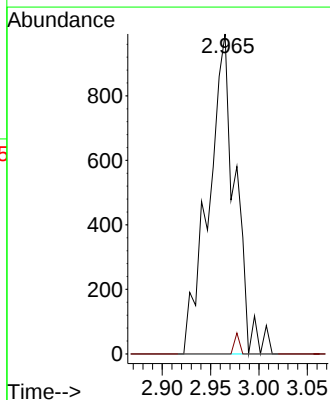
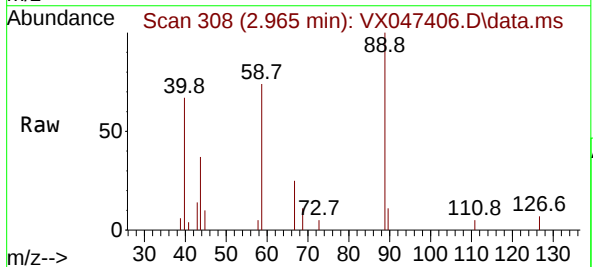
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

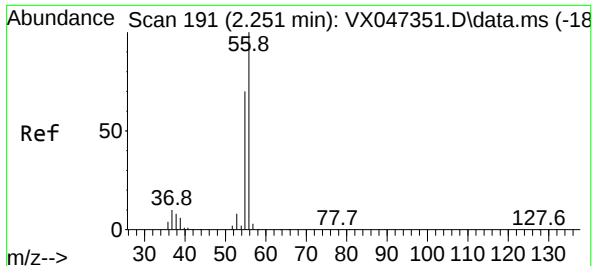
Tgt Ion:142 Resp: 4419
Ion Ratio Lower Upper
142 100
127 46.4 36.1 54.1
141 15.1 11.1 16.7



#11
Tert butyl alcohol
Concen: 8.213 ug/l
RT: 2.965 min Scan# 308
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 59 Resp: 1922
Ion Ratio Lower Upper
59 100
57 1.2 8.3 12.5#

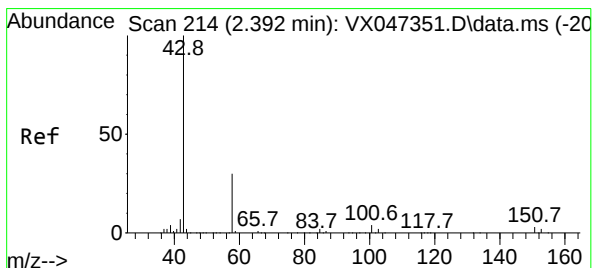
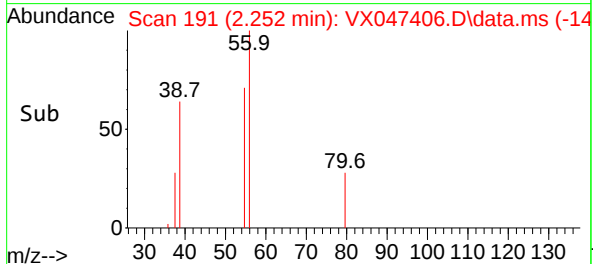
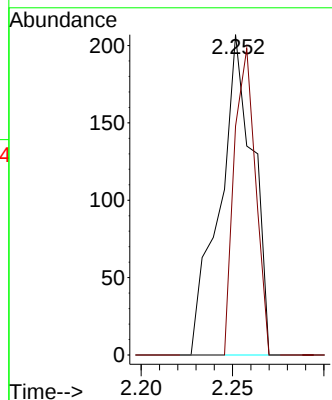
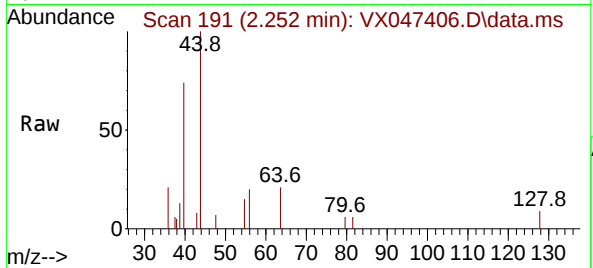




#13
Acrolein
Concen: 0.532 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

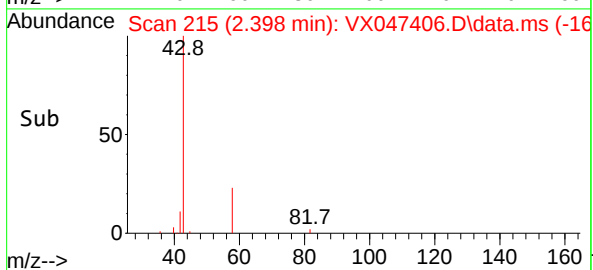
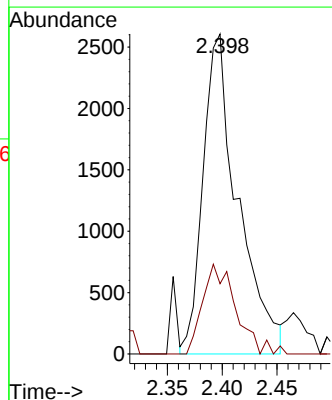
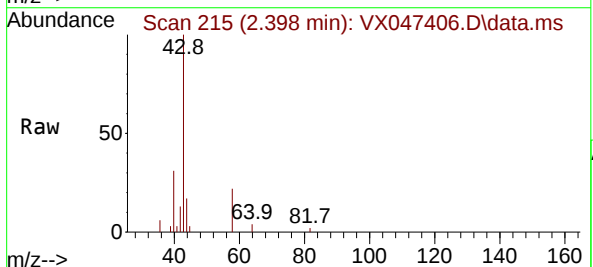
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

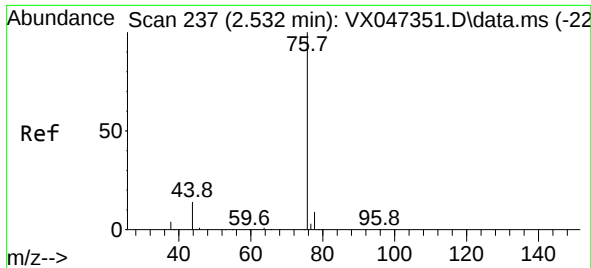
Tgt Ion: 56 Resp: 263
Ion Ratio Lower Upper
56 100
55 61.2 55.5 83.3



#16
Acetone
Concen: 5.683 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 43 Resp: 5746
Ion Ratio Lower Upper
43 100
58 24.1 24.8 37.2#

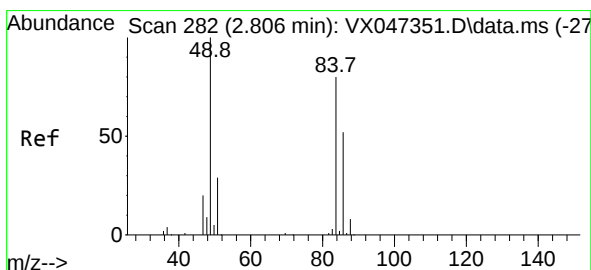
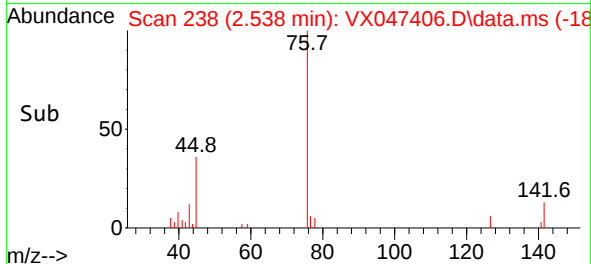
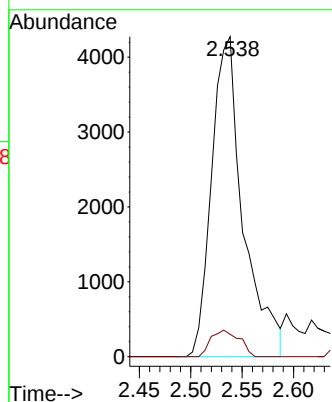
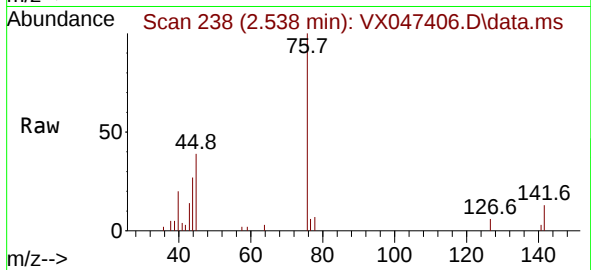




#17
Carbon Disulfide
Concen: 1.247 ug/l
RT: 2.538 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

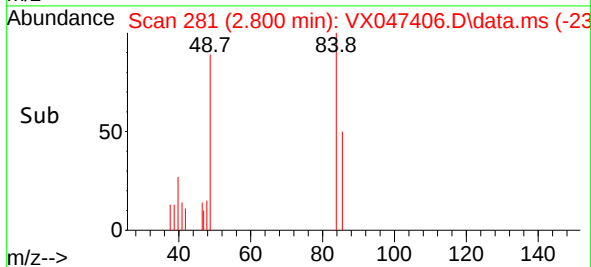
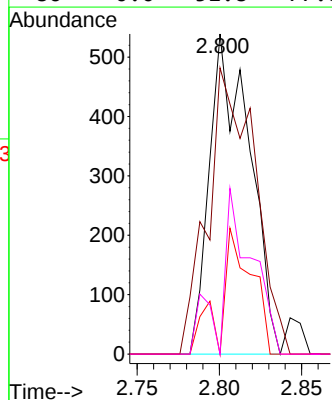
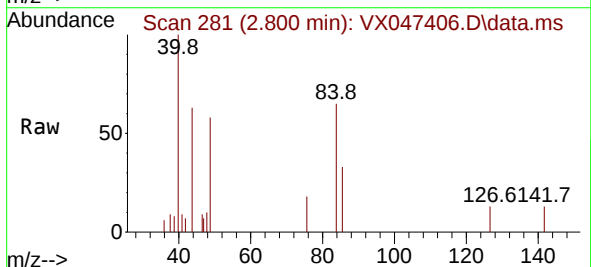
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

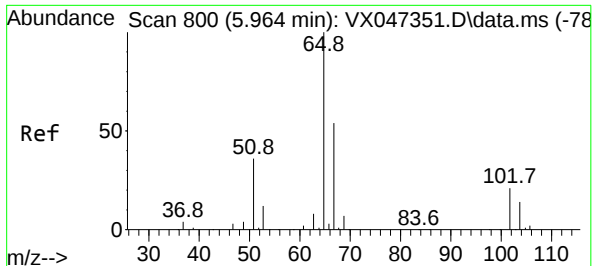
Tgt Ion: 76 Resp: 9106
Ion Ratio Lower Upper
76 100
78 6.6 7.2 10.8#



#20
Methylene Chloride
Concen: 0.340 ug/l
RT: 2.800 min Scan# 281
Delta R.T. -0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 84 Resp: 911
Ion Ratio Lower Upper
84 100
49 89.4 100.1 150.1#
51 0.0 29.5 44.3#
86 0.0 51.8 77.8#





#33

1,2-Dichloroethane-d4

Concen: 55.215 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047406.D

Acq: 19 Aug 2025 12:59

Instrument :

MSVOA_X

ClientSampleId :

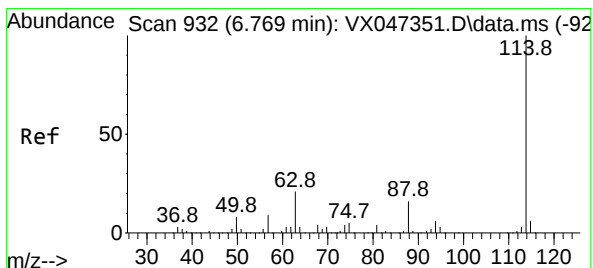
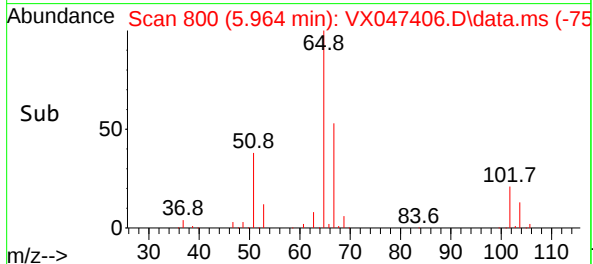
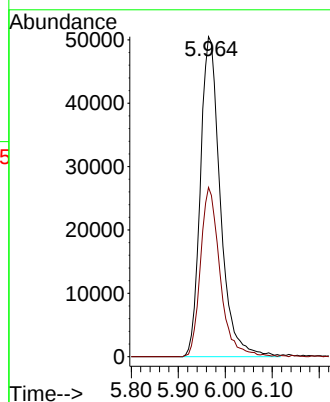
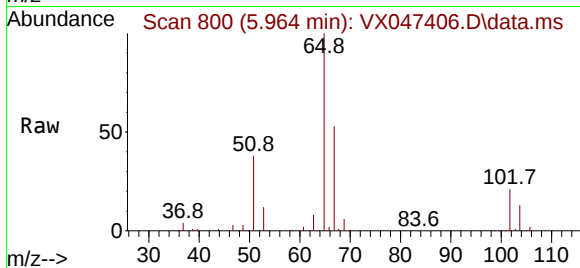
TW-22M-S

Tgt Ion: 65 Resp: 148535

Ion Ratio Lower Upper

65 100

67 52.0 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX047406.D

Acq: 19 Aug 2025 12:59

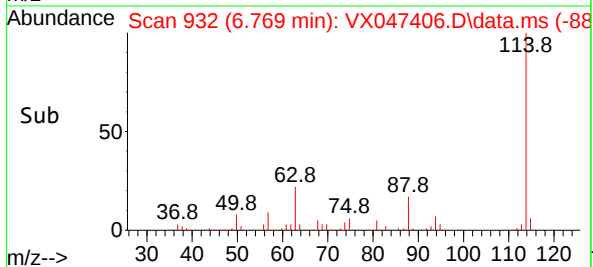
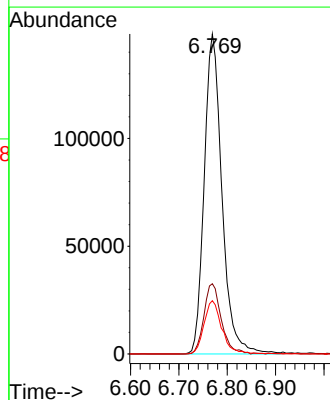
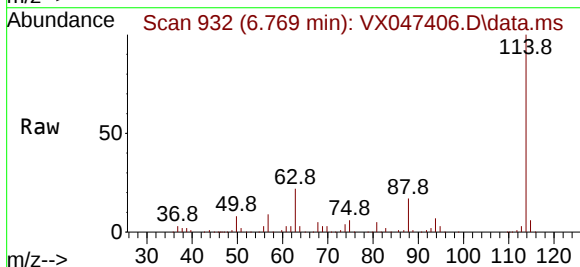
Tgt Ion: 114 Resp: 378823

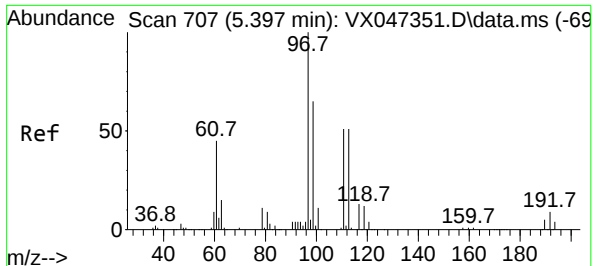
Ion Ratio Lower Upper

114 100

63 22.0 0.0 42.4

88 16.7 0.0 33.0

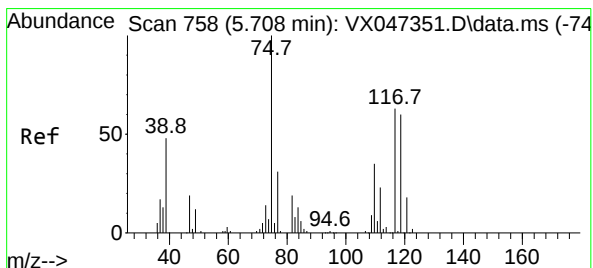
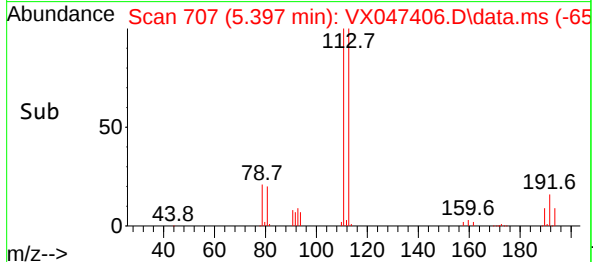
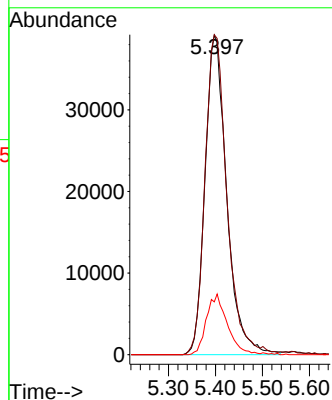
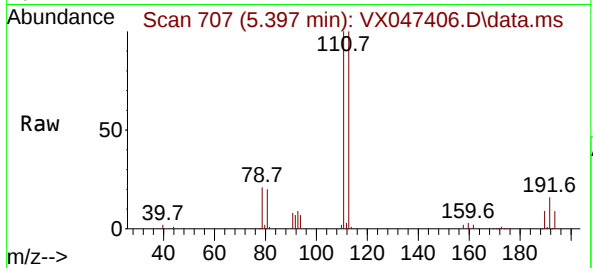




#35
Dibromofluoromethane
Concen: 50.984 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

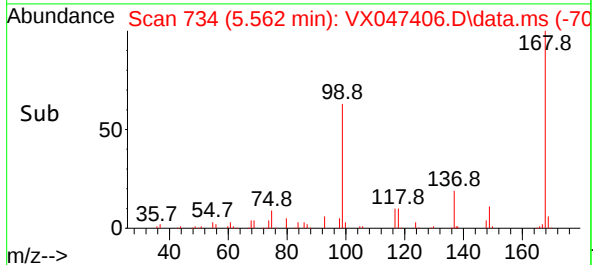
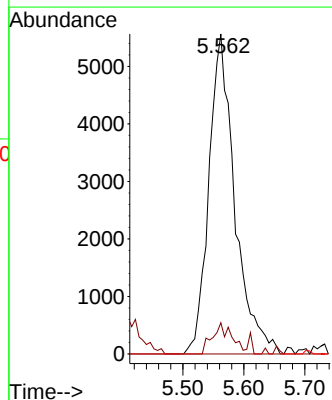
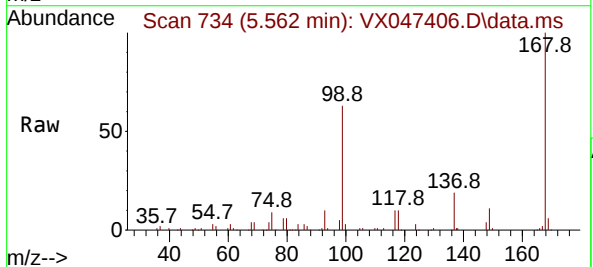
Instrument :
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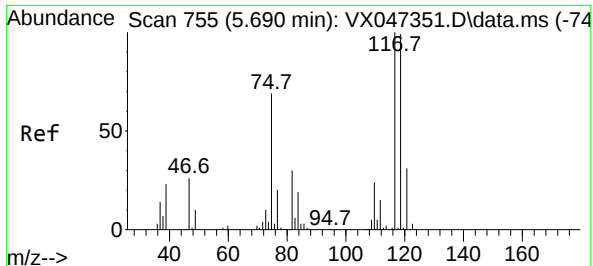
Tgt Ion:113 Resp: 125348
Ion Ratio Lower Upper
113 100
111 101.4 81.4 122.2
192 18.2 14.1 21.1



#36
1,1-Dichloropropene
Concen: 4.229 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.146 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 75 Resp: 16414
Ion Ratio Lower Upper
75 100
110 7.3 17.4 52.2#
77 0.0 24.4 36.6#

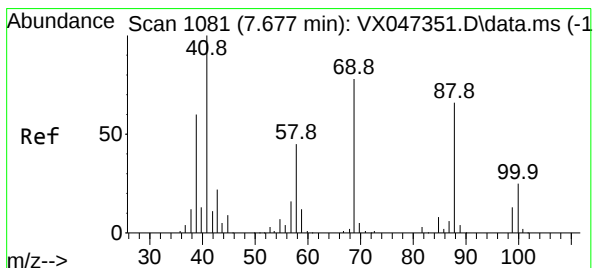
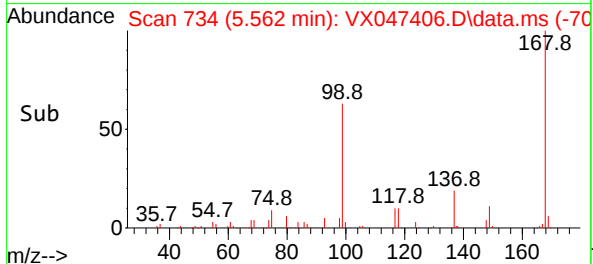
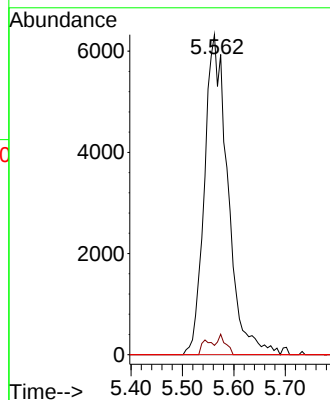
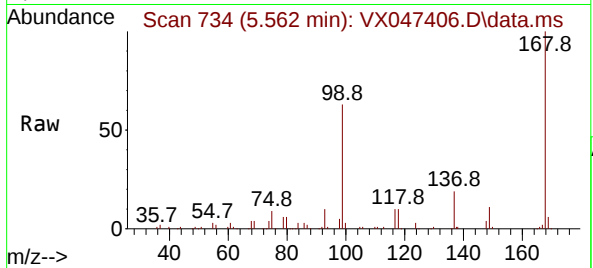




#38
Carbon Tetrachloride
Concen: 4.732 ug/l
RT: 5.562 min Scan# 71
Delta R.T. -0.128 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

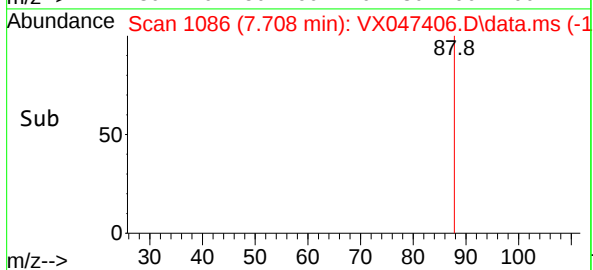
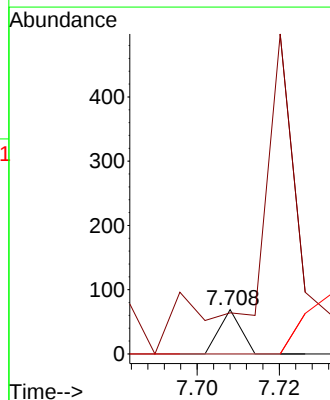
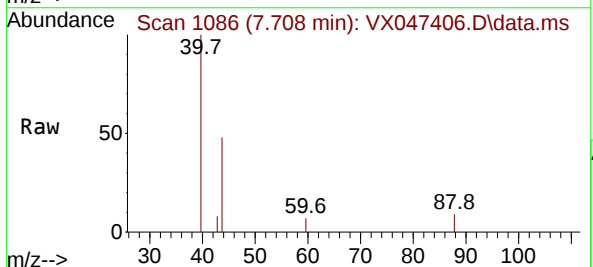
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

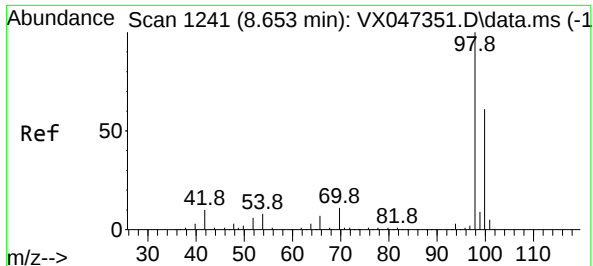
Tgt Ion:117 Resp: 20070
Ion Ratio Lower Upper
117 100
119 2.9 78.5 117.7#
121 0.0 24.7 37.1#



#49
1,4-Dioxane
Concen: 0.856 ug/l
RT: 7.708 min Scan# 1086
Delta R.T. 0.031 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 32.4 48.6#
58 0.0 56.9 85.3#

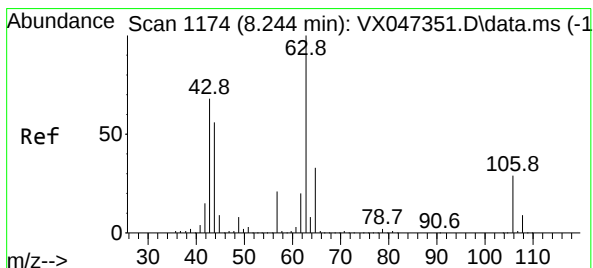
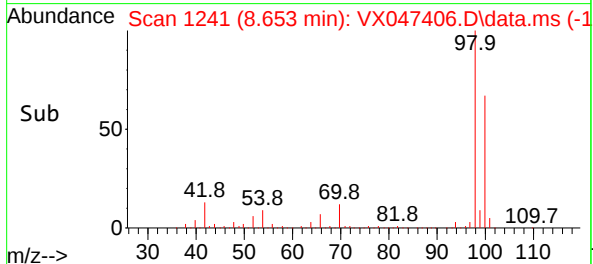
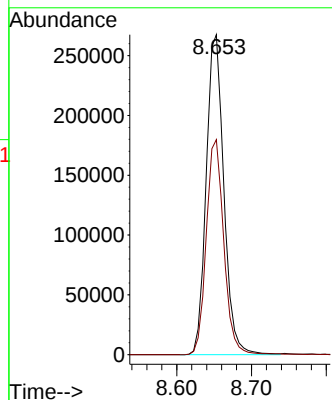
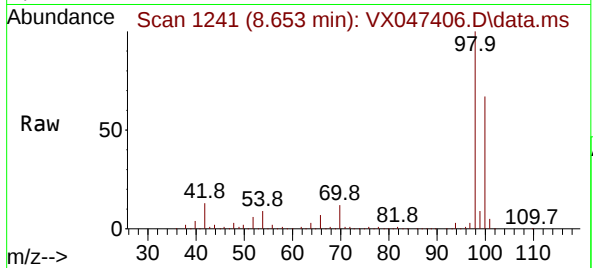




#50
Toluene-d8
Concen: 49.874 ug/l
RT: 8.653 min Scan# 1178
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

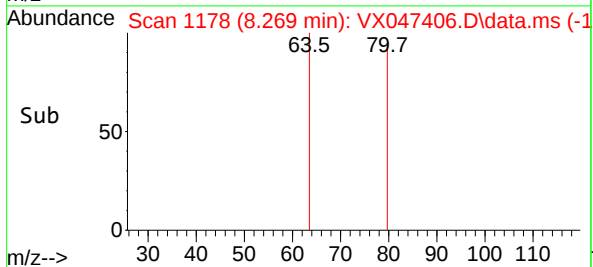
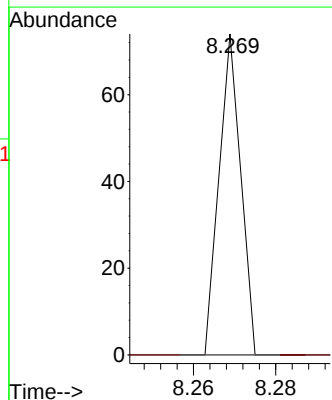
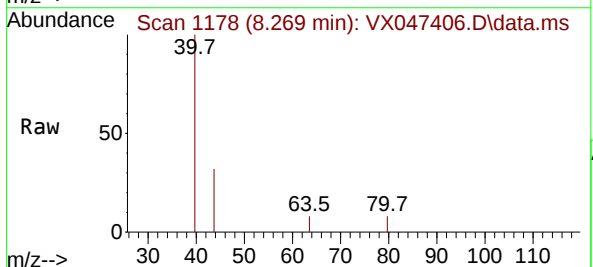
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

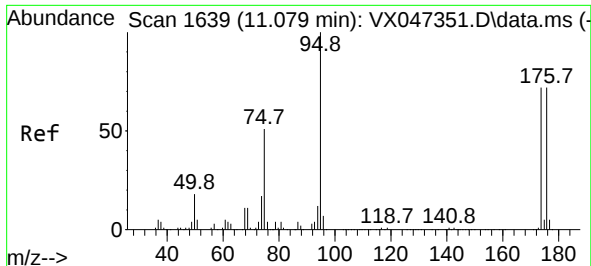
Tgt Ion: 98 Resp: 438277
Ion Ratio Lower Upper
98 100
100 67.0 53.9 80.9



#58
2-Chloroethyl Vinyl ether
Concen: 8.369 ug/l
RT: 8.269 min Scan# 1178
Delta R.T. 0.025 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 63 Resp: 27
Ion Ratio Lower Upper
63 100
106 0.0 22.8 34.2#

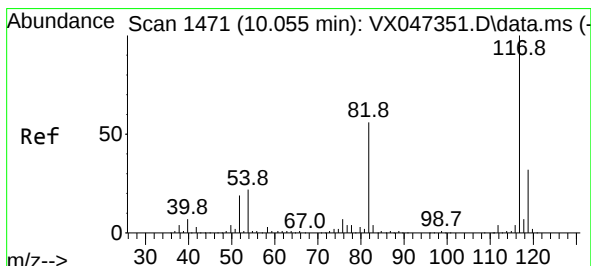
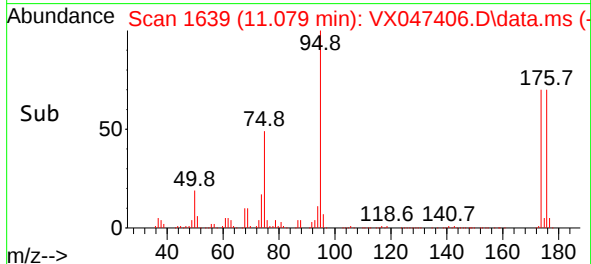
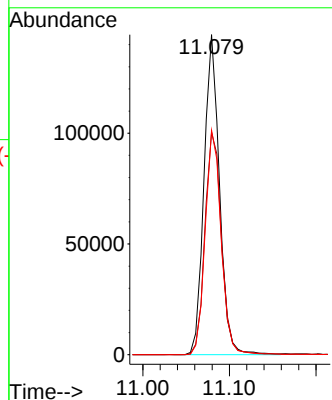
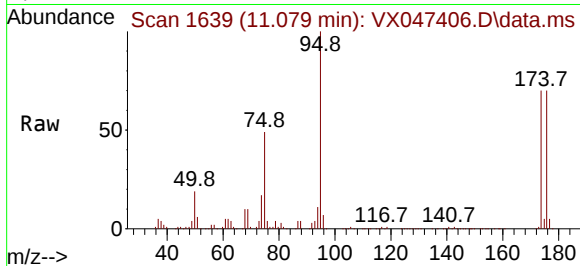




#62
4-Bromofluorobenzene
Concen: 55.349 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

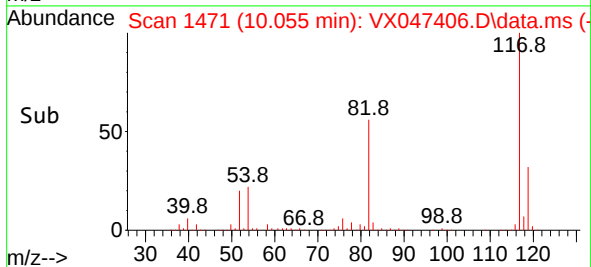
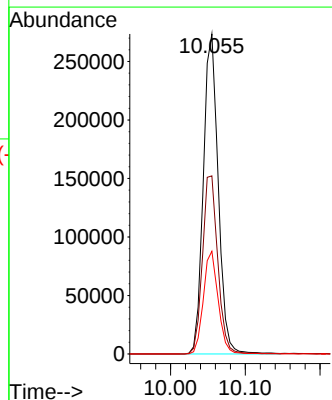
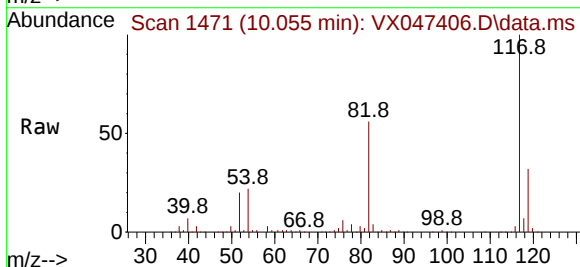
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

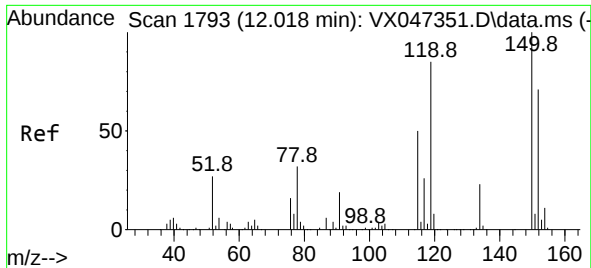
Tgt Ion: 95 Resp: 179486
Ion Ratio Lower Upper
95 100
174 74.3 0.0 148.0
176 72.2 0.0 145.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 117 Resp: 378260
Ion Ratio Lower Upper
117 100
82 55.7 45.0 67.4
119 32.1 25.8 38.8

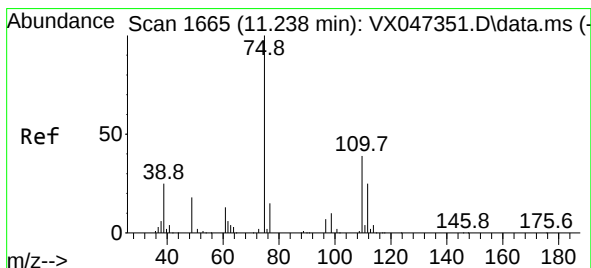
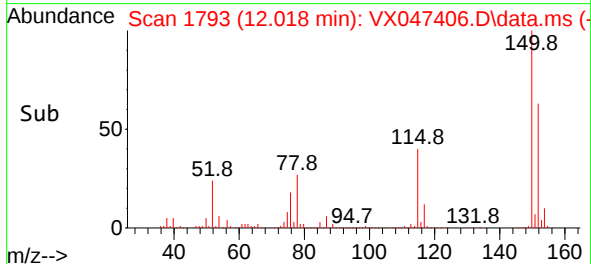
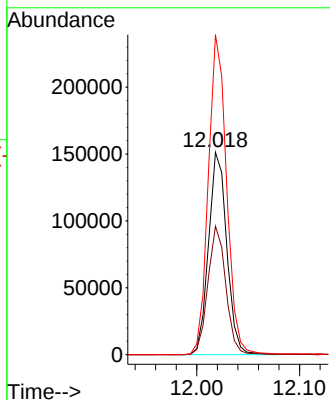
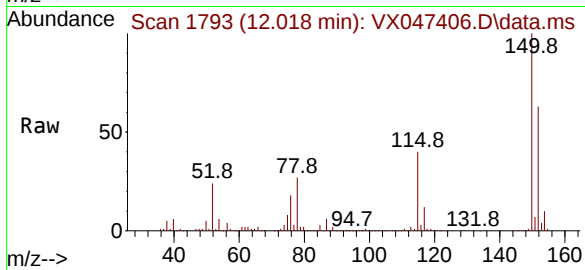




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 11
 Delta R.T. 0.000 min
 Lab File: VX047406.D
 Acq: 19 Aug 2025 12:59

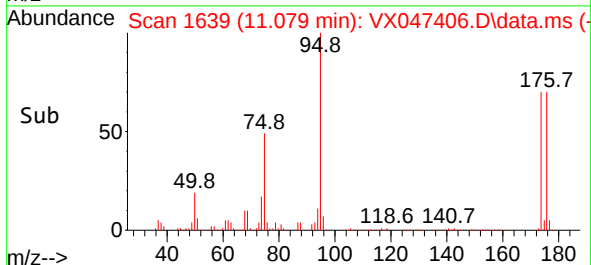
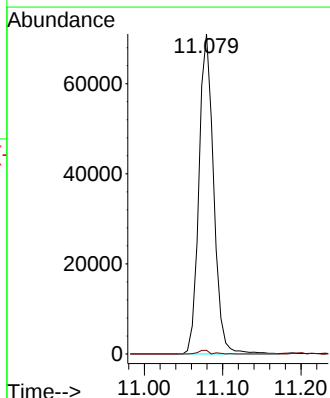
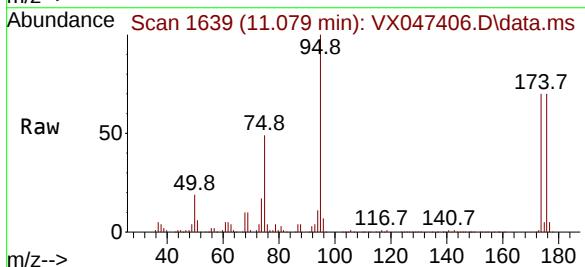
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-S

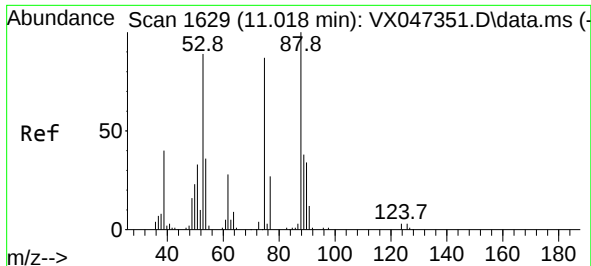
Tgt Ion:152 Resp: 187039
 Ion Ratio Lower Upper
 152 100
 115 62.5 44.6 133.8
 150 158.1 0.0 349.8



#76
 1,2,3-Trichloropropane
 Concen: 26.989 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX047406.D
 Acq: 19 Aug 2025 12:59

Tgt Ion: 75 Resp: 92585
 Ion Ratio Lower Upper
 75 100
 77 1.0 19.4 58.2#

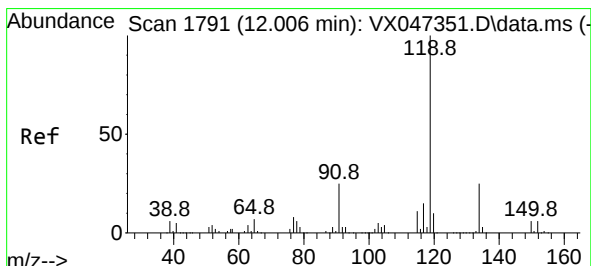
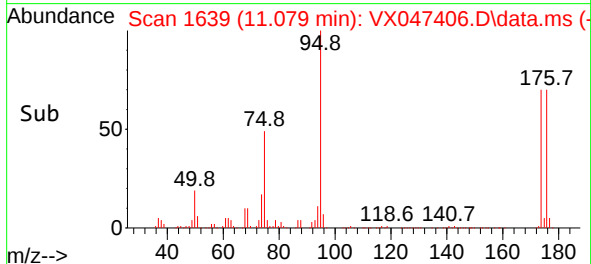
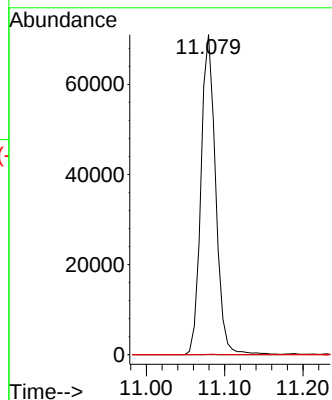
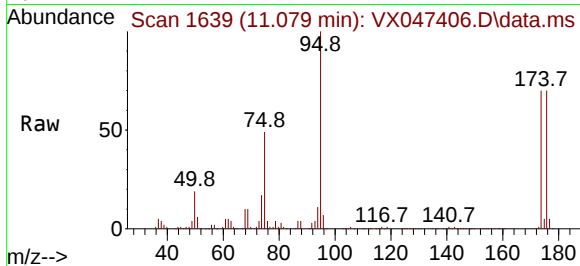




#81
trans-1,4-Dichloro-2-butene
Concen: 106.727 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

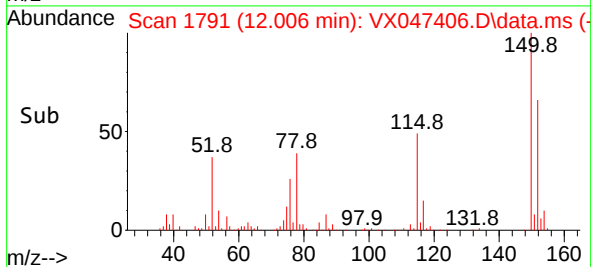
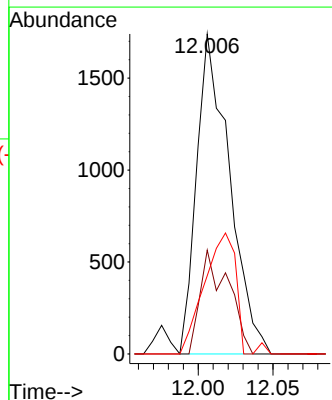
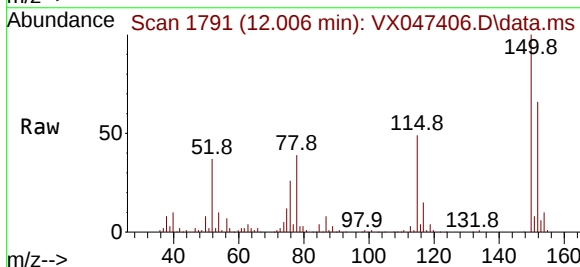
Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

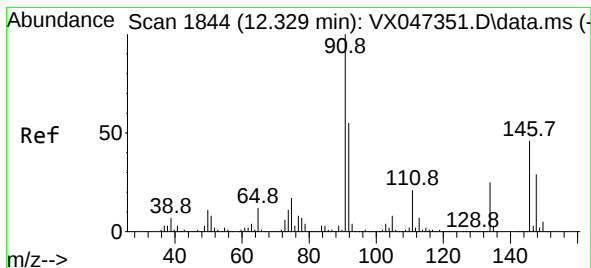
Tgt Ion: 75 Resp: 92585
Ion Ratio Lower Upper
75 100
53 0.1 85.2 127.8#
89 0.0 36.7 55.1#



#86
p-Isopropyltoluene
Concen: 0.211 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion: 119 Resp: 2653
Ion Ratio Lower Upper
119 100
134 28.0 12.8 38.4
91 36.0 12.4 37.4





#89

n-Butylbenzene

Concen: 0.307 ug/l

RT: 12.329 min Scan# 1844

Delta R.T. 0.000 min

Lab File: VX047406.D

Acq: 19 Aug 2025 12:59

Instrument :

MSVOA_X

ClientSampleId :

TW-22M-S

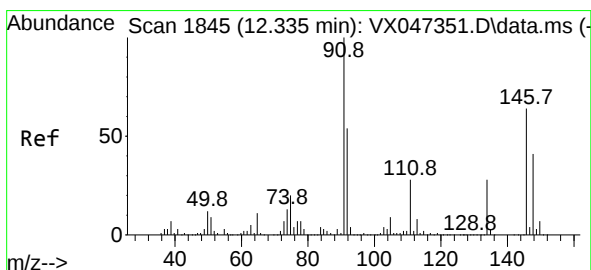
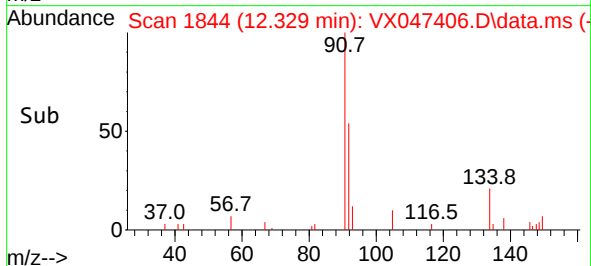
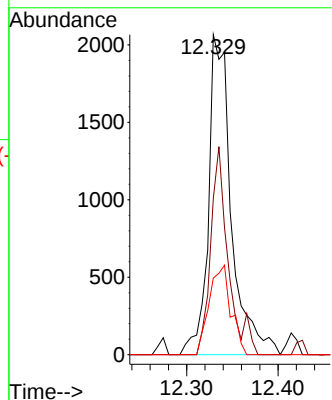
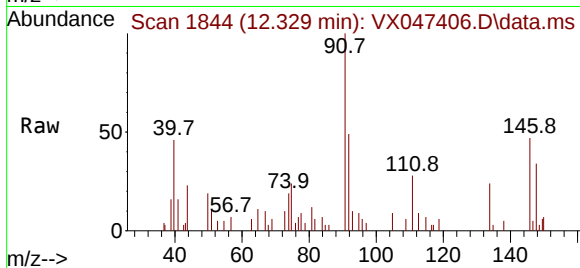
Tgt Ion: 91 Resp: 3604

Ion Ratio Lower Upper

91 100

92 49.5 27.2 81.5

134 26.4 12.6 37.8



#91

1,2-Dichlorobenzene

Concen: 0.410 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.000 min

Lab File: VX047406.D

Acq: 19 Aug 2025 12:59

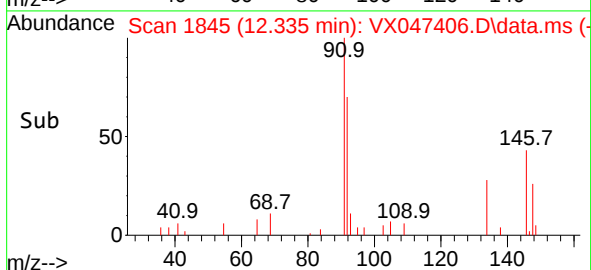
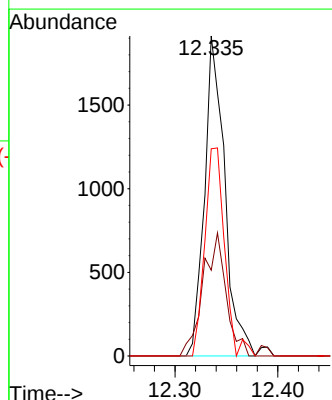
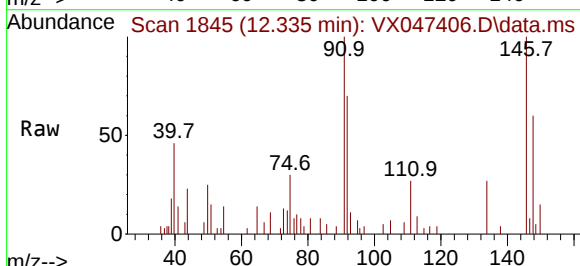
Tgt Ion:146 Resp: 2658

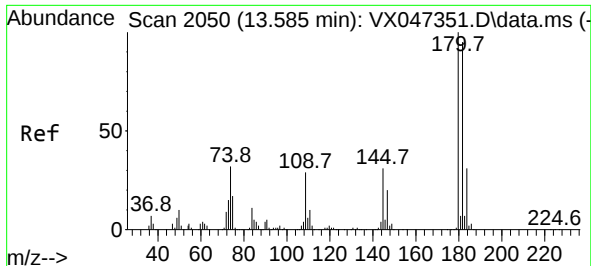
Ion Ratio Lower Upper

146 100

111 43.3 22.1 66.1

148 63.1 31.9 95.5

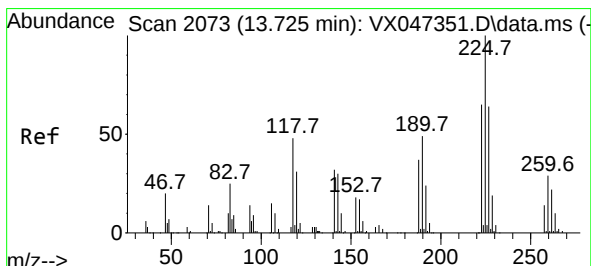
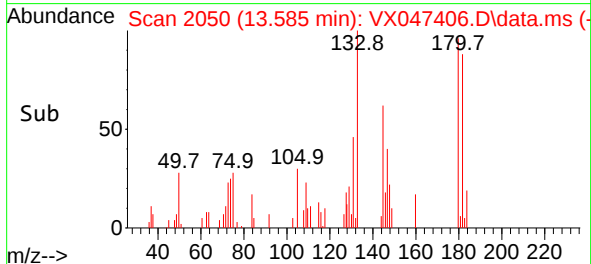
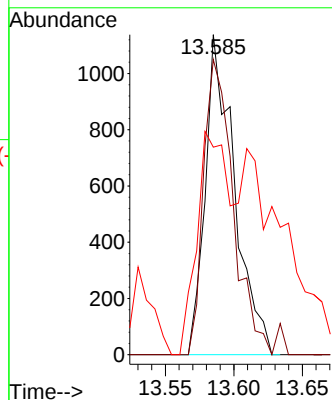
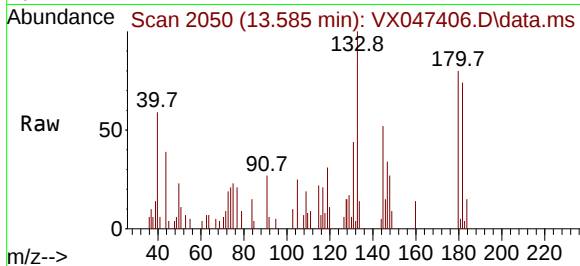




#93
 1,2,4-Trichlorobenzene
 Concen: 0.387 ug/l
 RT: 13.585 min Scan# 2050
 Delta R.T. 0.000 min
 Lab File: VX047406.D
 Acq: 19 Aug 2025 12:59

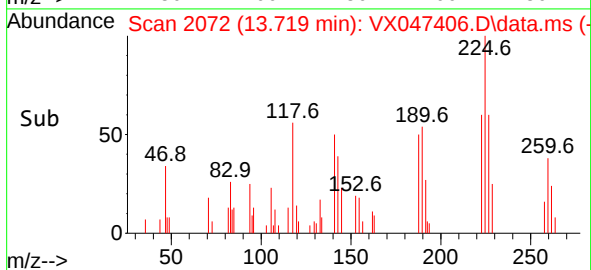
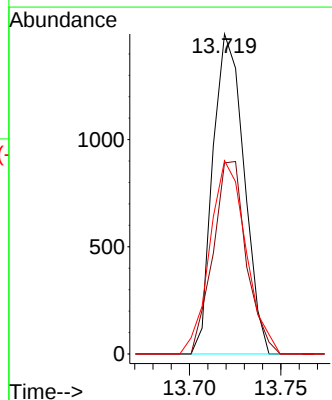
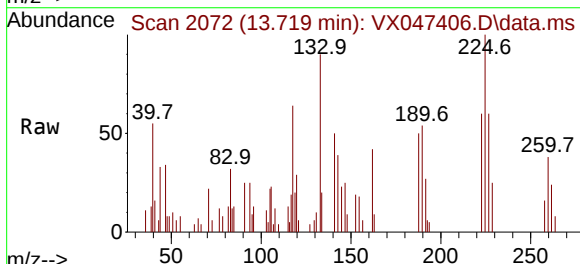
Instrument :
 MSVOA_X
 ClientSampleId :
 TW-22M-S

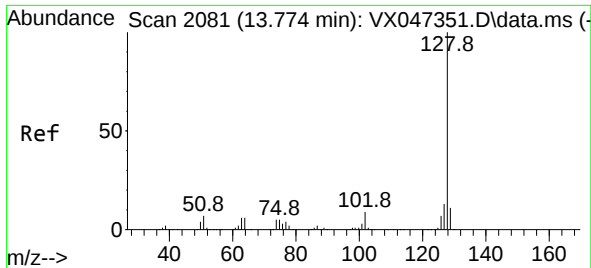
Tgt Ion:180 Resp: 1683
 Ion Ratio Lower Upper
 180 100
 182 93.5 48.1 144.4
 145 73.9 16.2 48.5#



#94
 Hexachlorobutadiene
 Concen: 1.143 ug/l
 RT: 13.719 min Scan# 2072
 Delta R.T. -0.006 min
 Lab File: VX047406.D
 Acq: 19 Aug 2025 12:59

Tgt Ion:225 Resp: 1767
 Ion Ratio Lower Upper
 225 100
 223 64.3 32.2 96.6
 227 70.1 31.6 95.0

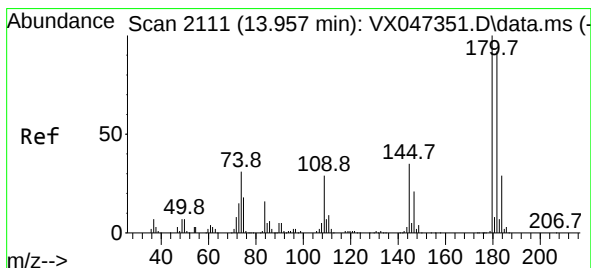
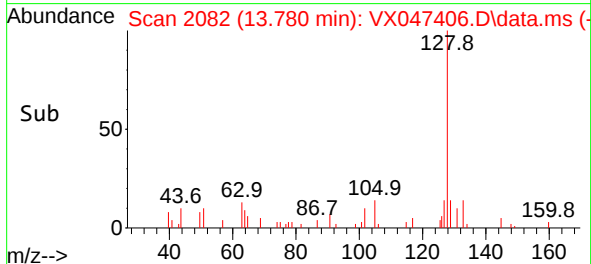
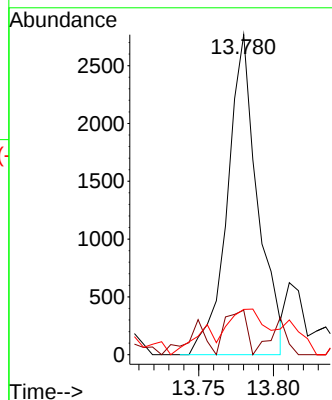
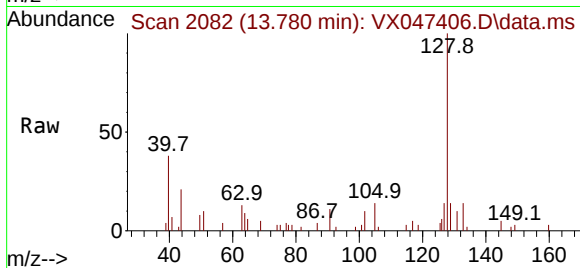




#95
Naphthalene
Concen: 0.313 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Instrument :
MSVOA_X
ClientSampleId :
TW-22M-S

Tgt Ion:128 Resp: 3889
Ion Ratio Lower Upper
128 100
127 10.0 10.1 15.1#
129 11.5 8.7 13.1



#96
1,2,3-Trichlorobenzene
Concen: 0.410 ug/l
RT: 13.963 min Scan# 2112
Delta R.T. 0.006 min
Lab File: VX047406.D
Acq: 19 Aug 2025 12:59

Tgt Ion:180 Resp: 1681
Ion Ratio Lower Upper
180 100
182 89.6 48.0 144.2
145 206.7 17.4 52.2#

