

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100825\
 Data File : VY023398.D
 Acq On : 08 Oct 2025 11:24
 Operator : SY/MD
 Sample : Q3303-01
 Misc : 5.20g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HL-WEST

Quant Time: Oct 09 03:10:05 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100725S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 08 05:12:50 2025
 Response via : Initial Calibration

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

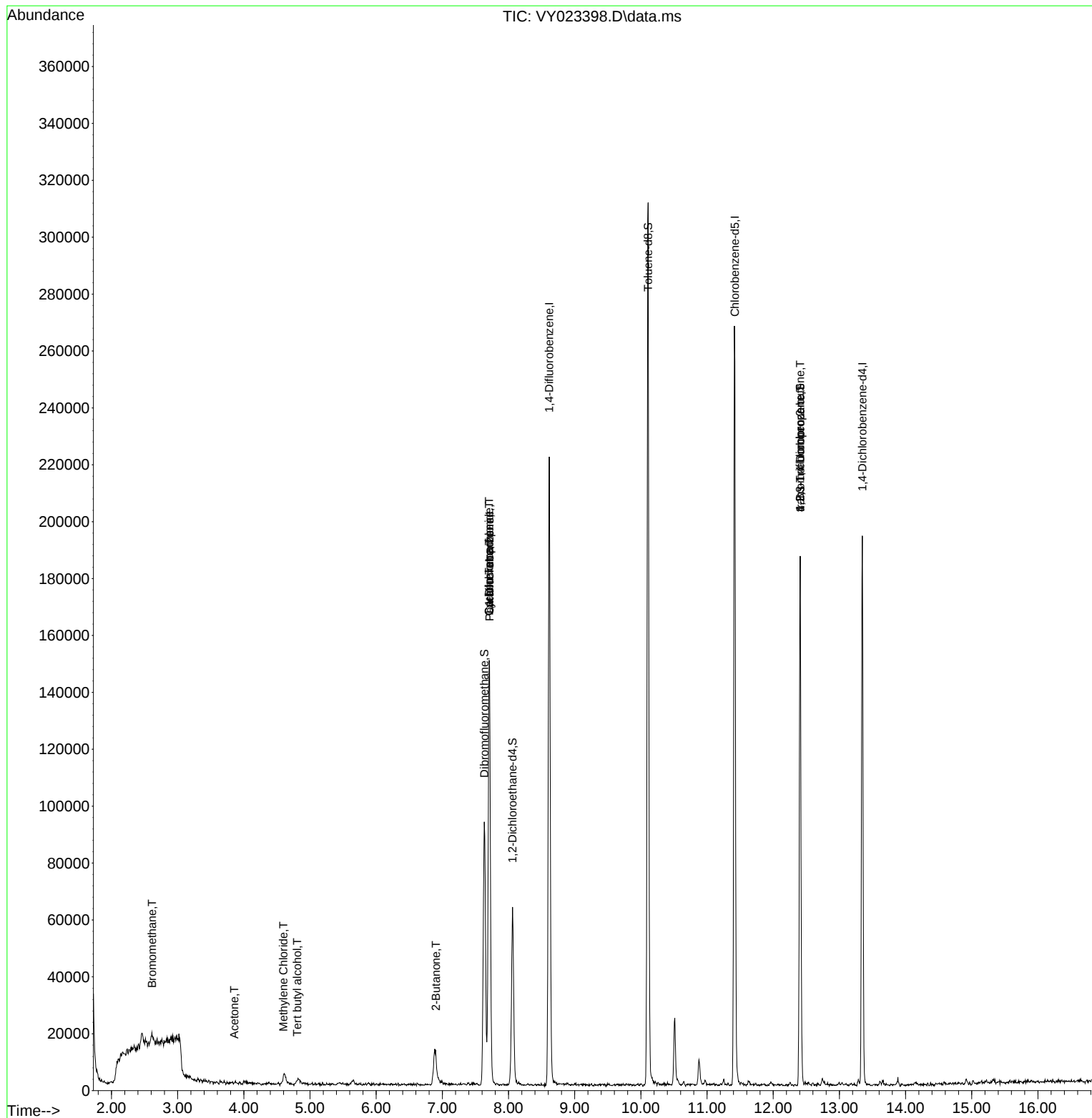
Internal Standards						
1) Pentafluorobenzene	7.713	168	127568	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	196292	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	158506	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	54504	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	46927	43.991	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	87.980%
35) Dibromofluoromethane	7.634	113	67132	55.659	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	111.320%
50) Toluene-d8	10.109	98	212872	47.392	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.780%
62) 4-Bromofluorobenzene	12.407	95	53299	35.942	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	71.880%
Target Compounds						
					Qvalue	
5) Bromomethane	2.610	94	1794	1.312	ug/l	88
11) Tert butyl alcohol	4.805	59	1766	22.253	ug/l #	72
16) Acetone	3.854	43	365	1.437	ug/l #	85
20) Methylene Chloride	4.598	84	2897	2.110	ug/l #	86
25) 2-Butanone	6.902	43	915	2.951	ug/l #	40
31) Cyclohexane	7.707	56	2178	1.227	ug/l #	42
36) 1,1-Dichloropropene	7.707	75	8448	5.291	ug/l #	46
38) Carbon Tetrachloride	7.707	117	11559	5.970	ug/l #	19
76) 1,2,3-Trichloropropane	12.407	75	27014	56.177	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	27014	137.757	ug/l #	15

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

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QLast Update : Wed Oct 08 05:12:50 2025
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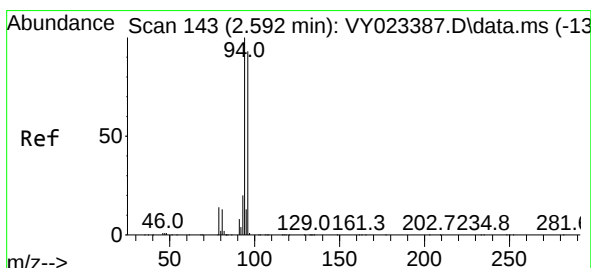
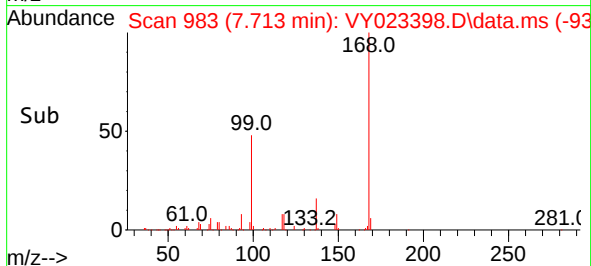
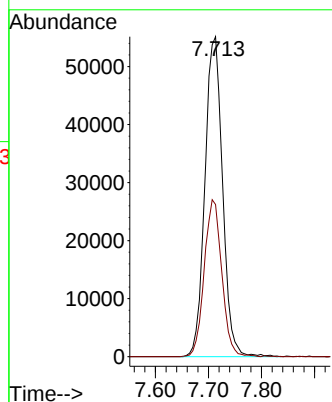
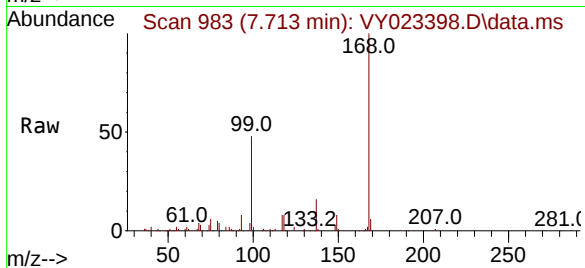




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

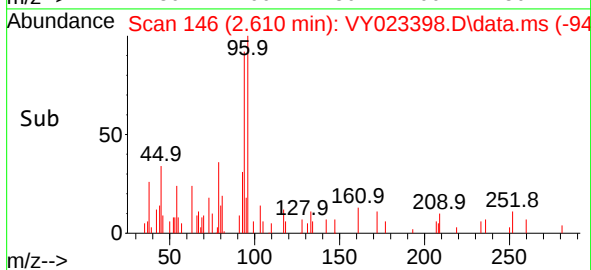
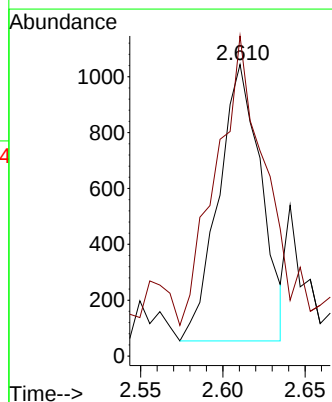
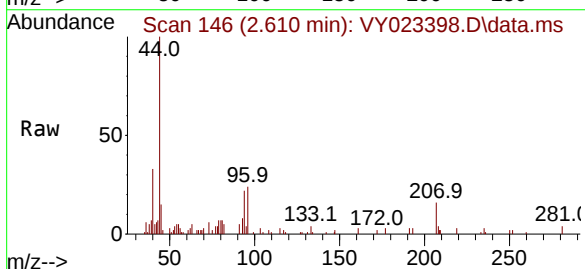
Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

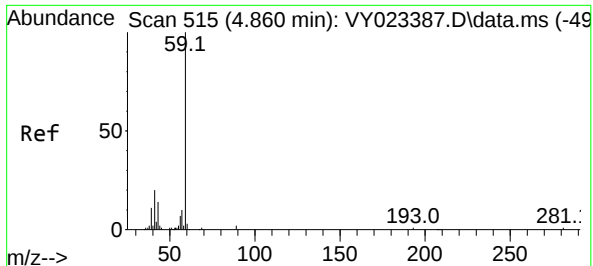
Tgt Ion:168 Resp: 127568
Ion Ratio Lower Upper
168 100
99 47.5 39.7 59.5



#5
Bromomethane
Concen: 1.312 ug/l
RT: 2.610 min Scan# 146
Delta R.T. 0.018 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion: 94 Resp: 1794
Ion Ratio Lower Upper
94 100
96 104.6 74.5 111.7





#11

Tert butyl alcohol

Concen: 22.253 ug/l

RT: 4.805 min Scan# 506

Delta R.T. -0.055 min

Lab File: VY023398.D

Acq: 08 Oct 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

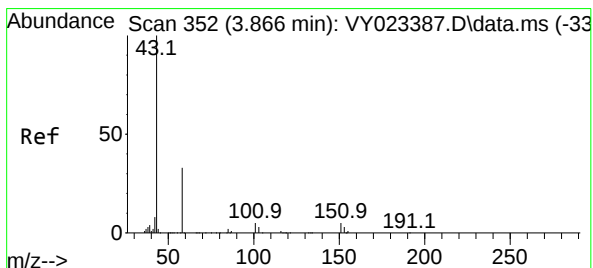
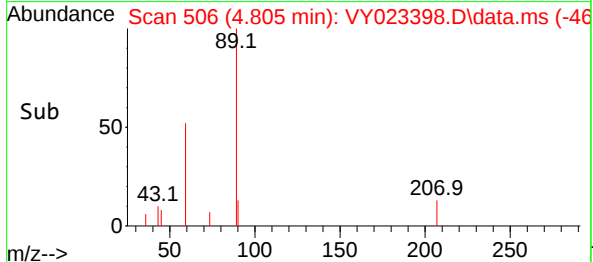
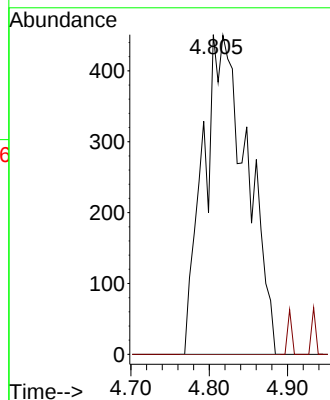
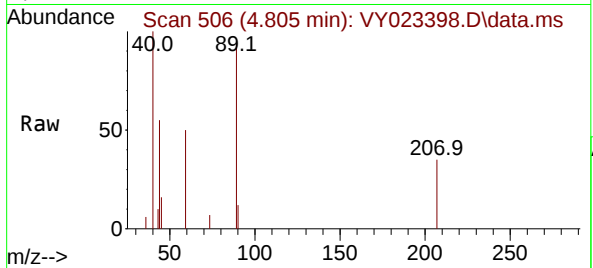
HL-WEST

Tgt Ion: 59 Resp: 1766

Ion Ratio Lower Upper

59 100

57 0.0 8.3 12.5#



#16

Acetone

Concen: 1.437 ug/l

RT: 3.854 min Scan# 350

Delta R.T. -0.012 min

Lab File: VY023398.D

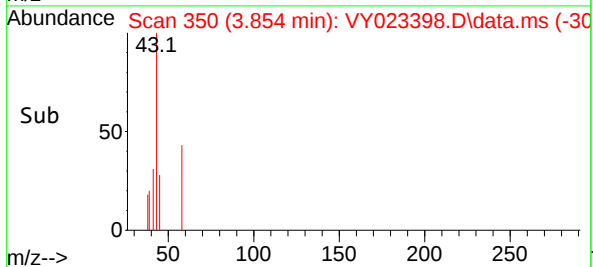
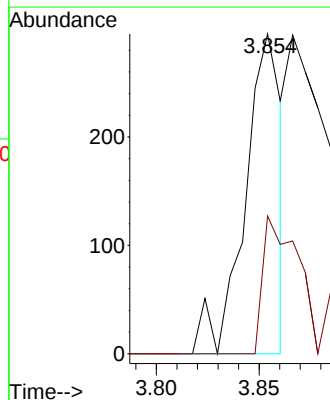
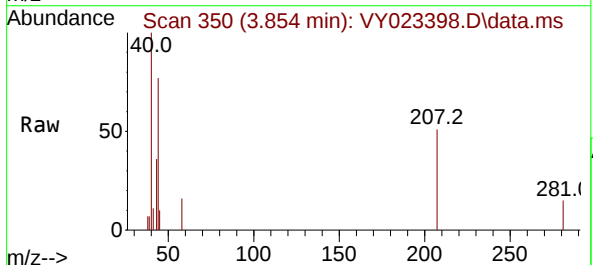
Acq: 08 Oct 2025 11:24

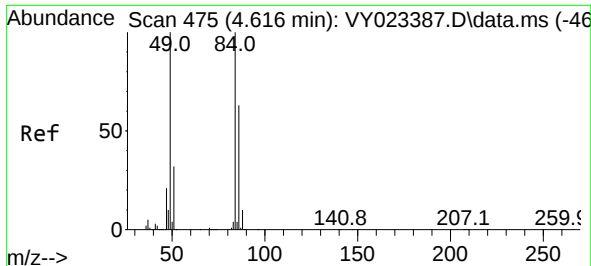
Tgt Ion: 43 Resp: 365

Ion Ratio Lower Upper

43 100

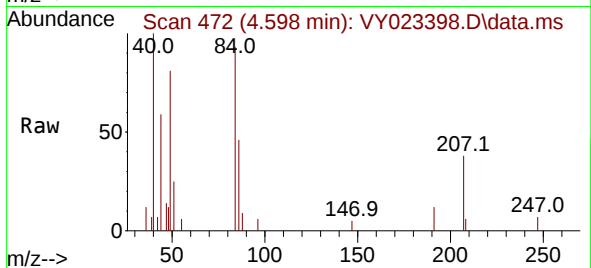
58 43.1 27.7 41.5#



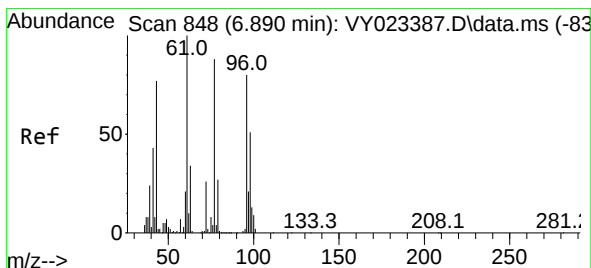
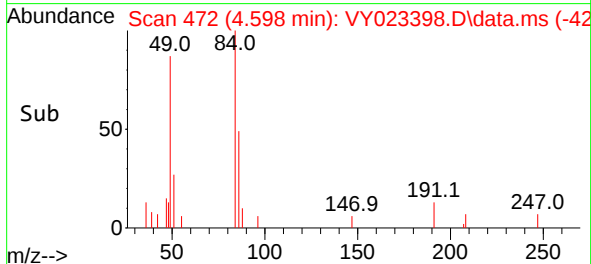
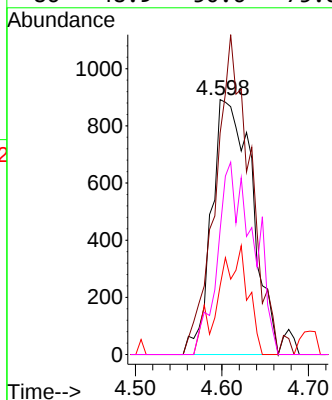


#20
Methylene Chloride
Concen: 2.110 ug/l
RT: 4.598 min Scan# 41
Delta R.T. -0.018 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

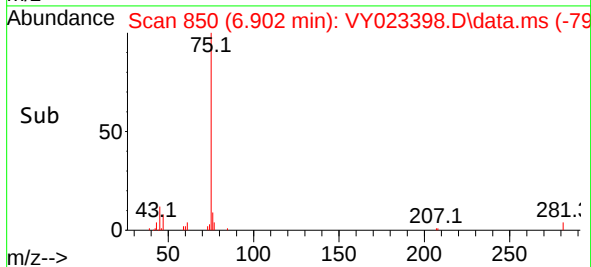
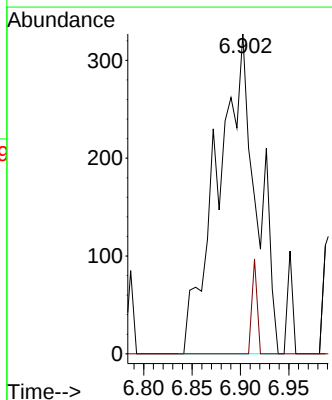
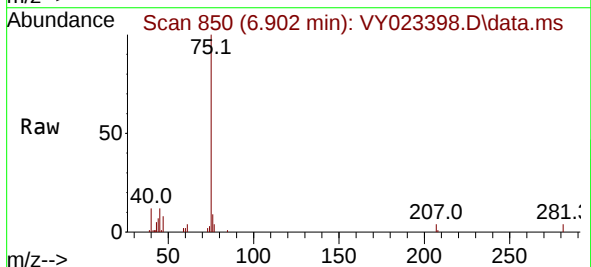


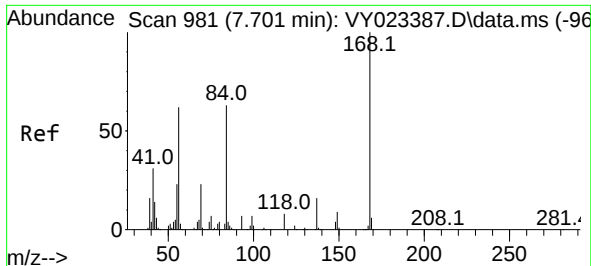
Tgt Ion:	84	Resp:	2897
Ion	Ratio	Lower	Upper
84	100		
49	86.9	80.2	120.4
51	27.0	25.9	38.9
86	48.9	50.6	75.8



#25
2-Butanone
Concen: 2.951 ug/l
RT: 6.902 min Scan# 850
Delta R.T. 0.012 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion:	43	Resp:	915
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.4	41.2

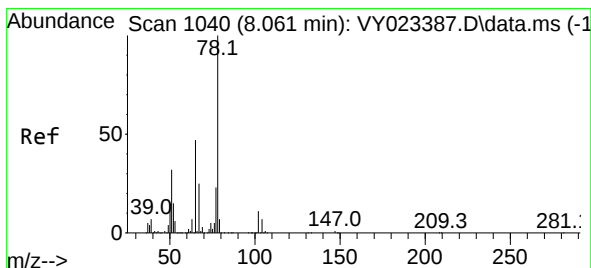
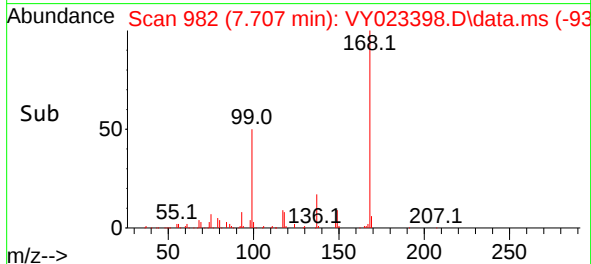
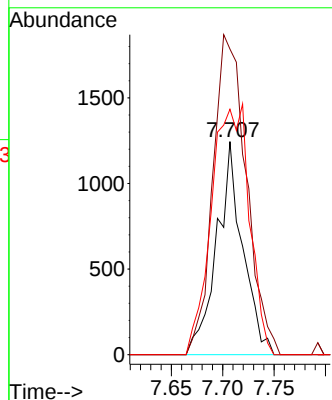
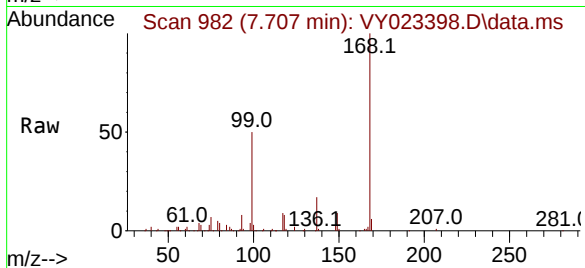




#31
Cyclohexane
Concen: 1.227 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

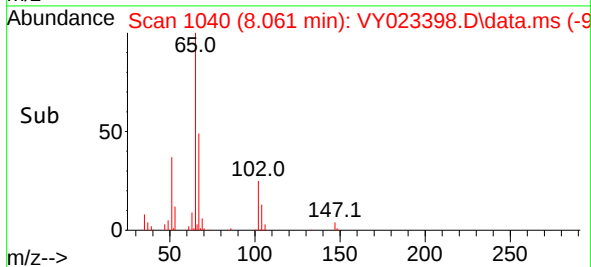
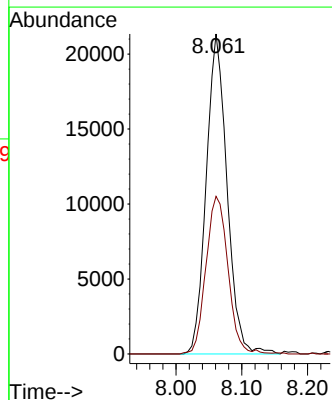
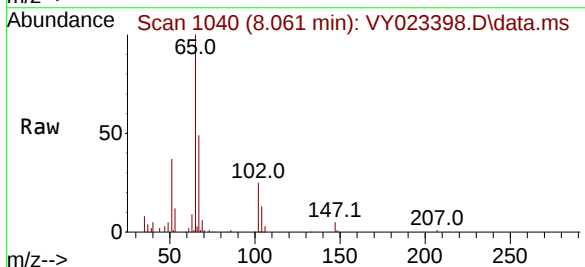
Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

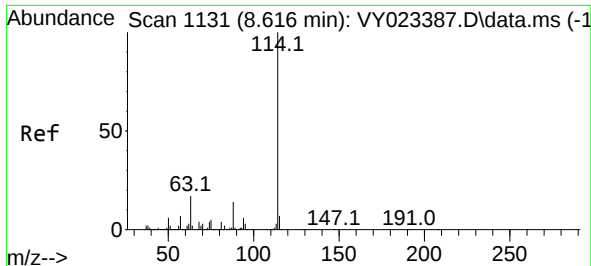
Tgt Ion: 56 Resp: 2178
Ion Ratio Lower Upper
56 100
69 143.4 30.0 45.0#
84 115.2 81.2 121.8



#33
1,2-Dichloroethane-d4
Concen: 43.991 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion: 65 Resp: 46927
Ion Ratio Lower Upper
65 100
67 52.2 0.0 105.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.000 min

Lab File: VY023398.D

Acq: 08 Oct 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

HL-WEST

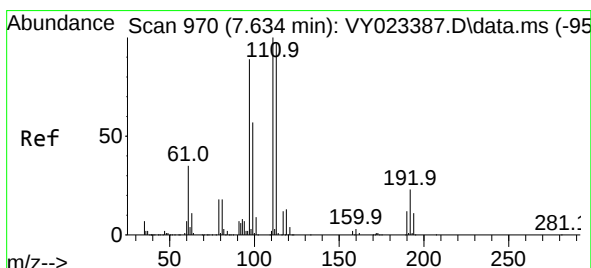
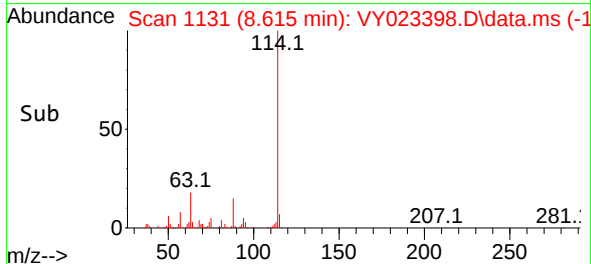
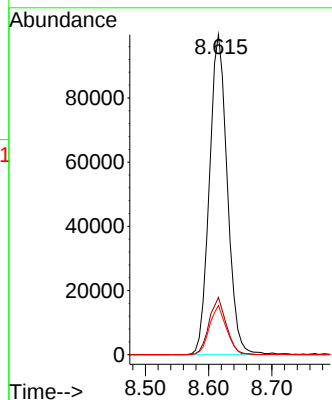
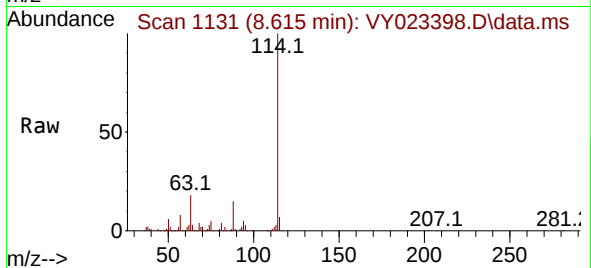
Tgt Ion:114 Resp: 196292

Ion Ratio Lower Upper

114 100

63 17.9 0.0 34.2

88 15.4 0.0 28.4



#35

Dibromofluoromethane

Concen: 55.659 ug/l

RT: 7.634 min Scan# 970

Delta R.T. -0.000 min

Lab File: VY023398.D

Acq: 08 Oct 2025 11:24

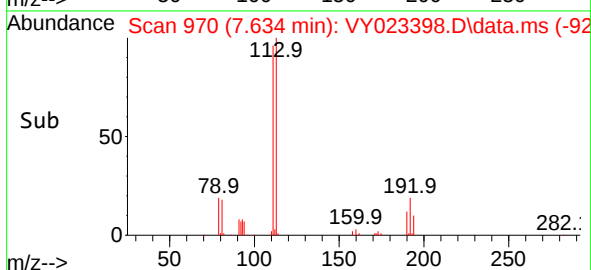
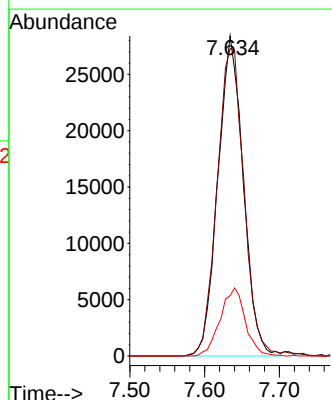
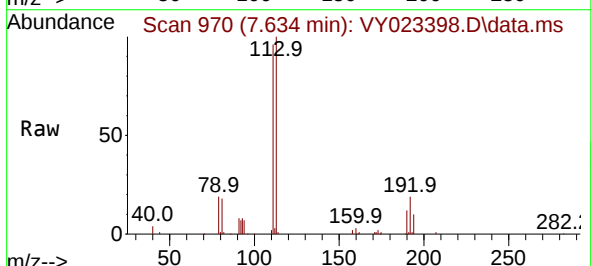
Tgt Ion:113 Resp: 67132

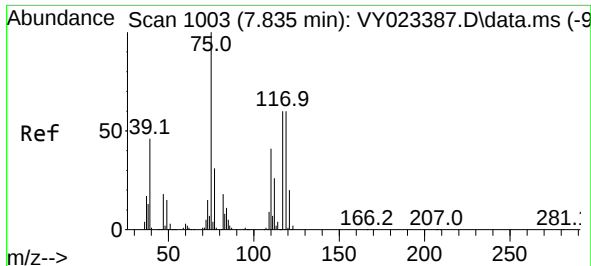
Ion Ratio Lower Upper

113 100

111 102.3 81.8 122.6

192 21.1 18.0 27.0





#36

1,1-Dichloropropene

Concen: 5.291 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.128 min

Lab File: VY023398.D

Acq: 08 Oct 2025 11:24

Instrument :

MSVOA_Y

ClientSampleId :

HL-WEST

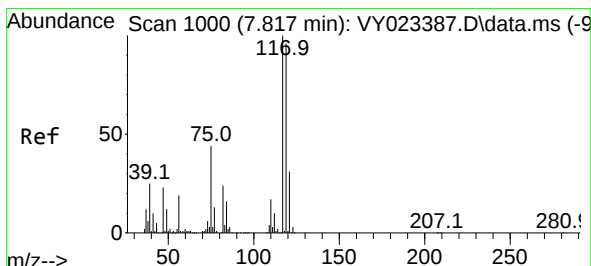
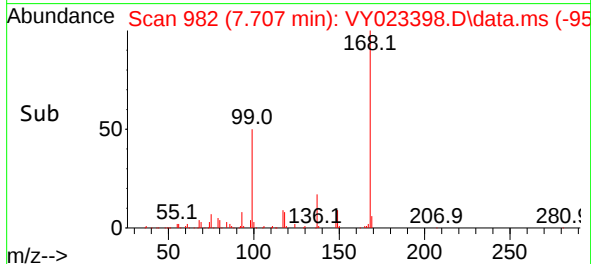
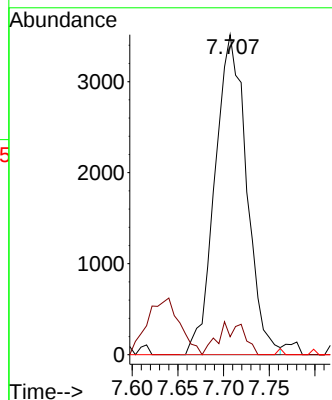
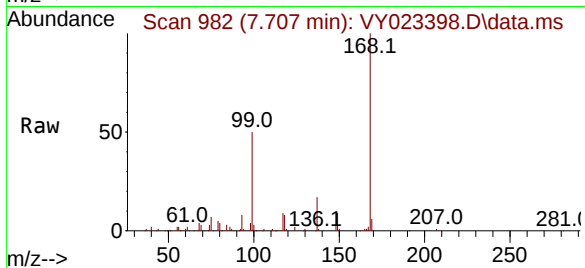
Tgt Ion: 75 Resp: 8448

Ion Ratio Lower Upper

75 100

110 8.1 19.9 59.7#

77 0.0 25.0 37.6#



#38

Carbon Tetrachloride

Concen: 5.970 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY023398.D

Acq: 08 Oct 2025 11:24

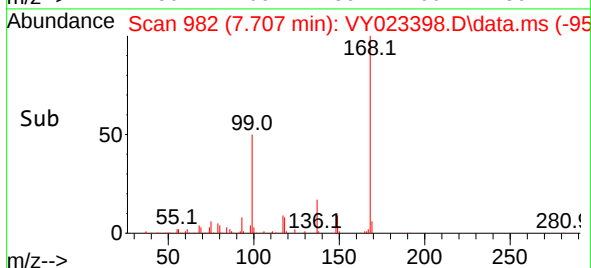
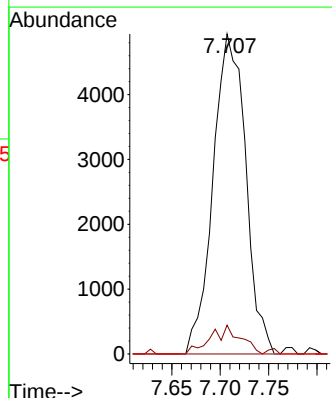
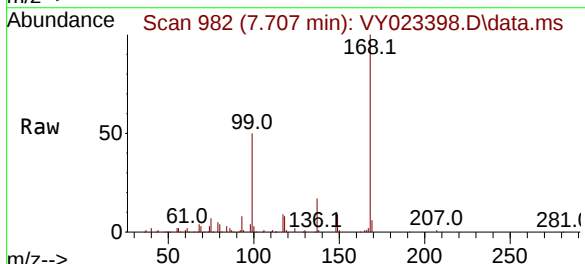
Tgt Ion: 117 Resp: 11559

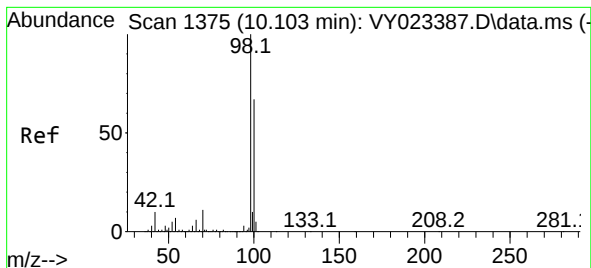
Ion Ratio Lower Upper

117 100

119 9.0 76.8 115.2#

121 0.0 24.5 36.7#

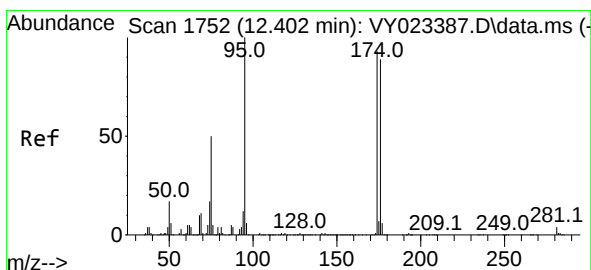
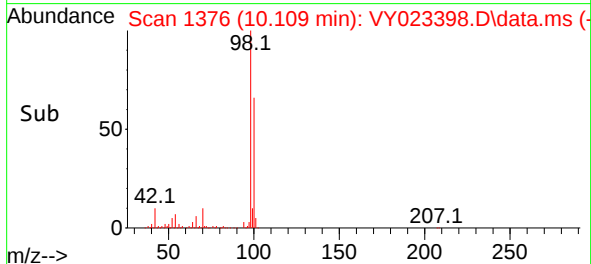
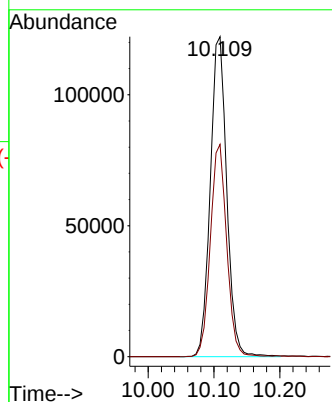
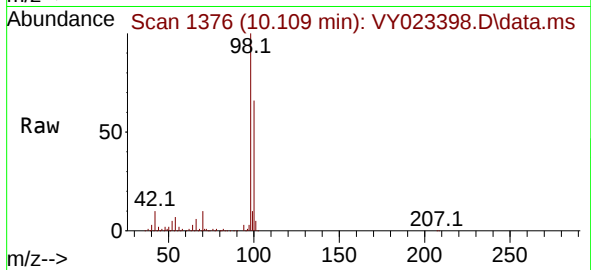




#50
Toluene-d8
Concen: 47.392 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

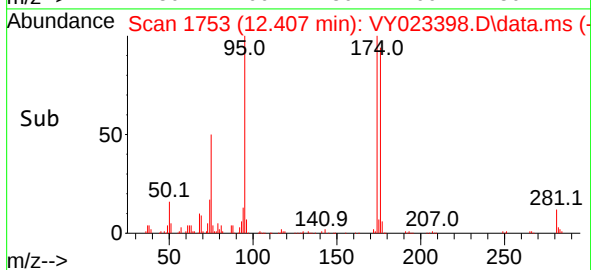
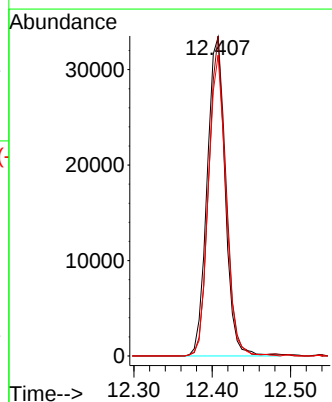
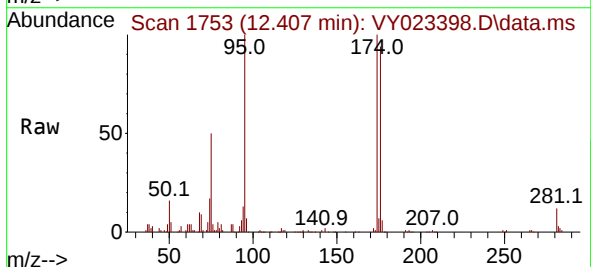
Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

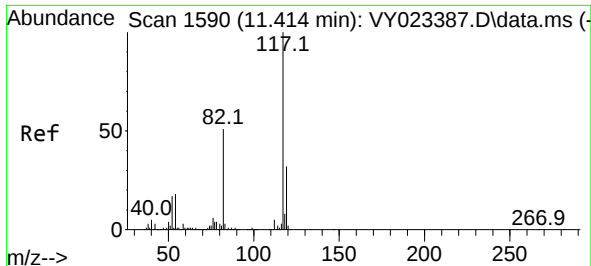
Tgt Ion: 98 Resp: 212872
Ion Ratio Lower Upper
98 100
100 66.0 53.0 79.4



#62
4-Bromofluorobenzene
Concen: 35.942 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion: 95 Resp: 53299
Ion Ratio Lower Upper
95 100
174 96.1 0.0 192.8
176 91.9 0.0 187.6

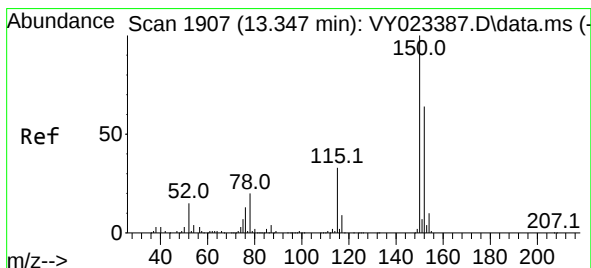
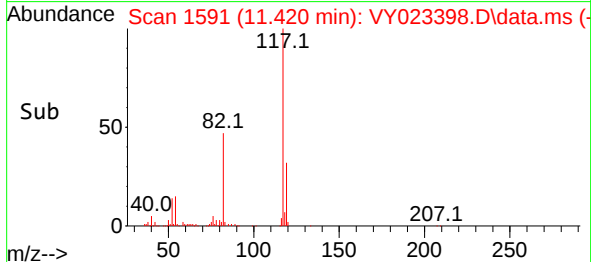
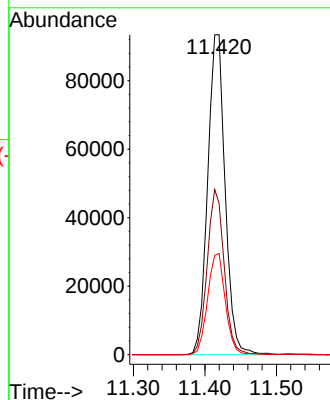
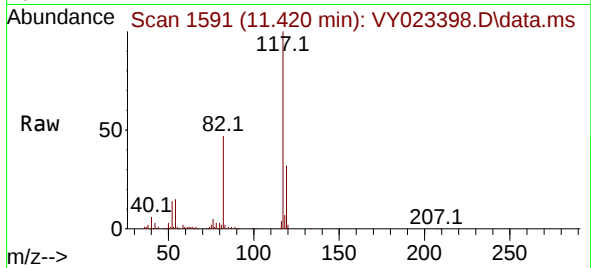




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

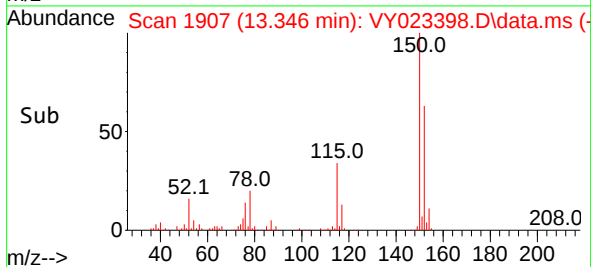
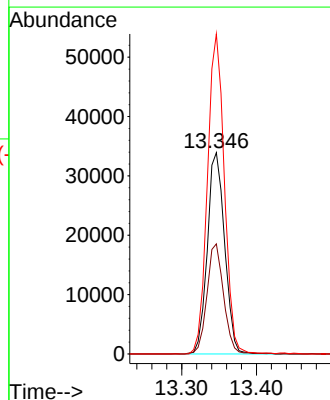
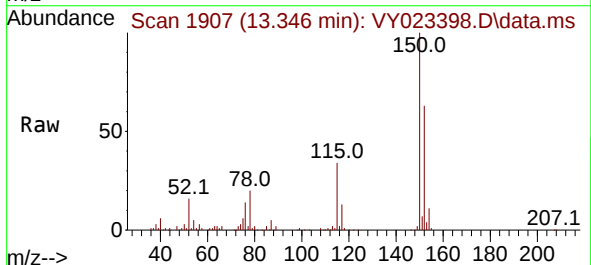
Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

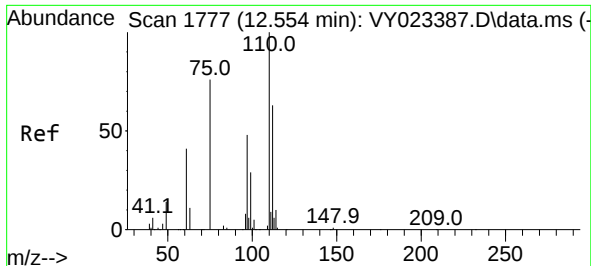
Tgt Ion:117 Resp: 158506
Ion Ratio Lower Upper
117 100
82 47.2 41.0 61.4
119 31.6 25.6 38.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion:152 Resp: 54504
Ion Ratio Lower Upper
152 100
115 52.8 27.1 81.2
150 155.1 0.0 347.4

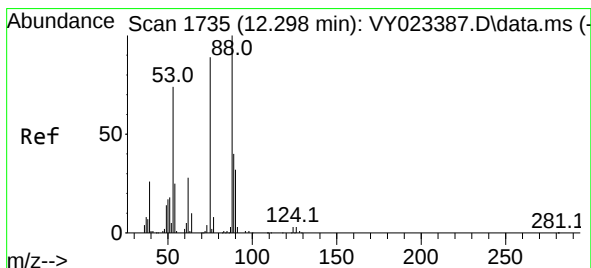
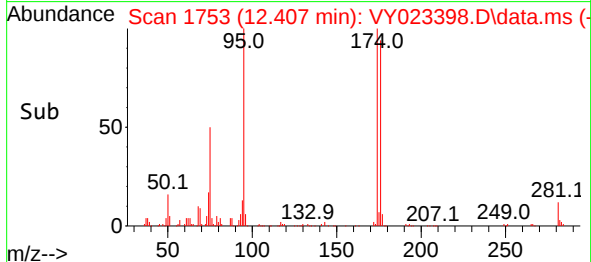
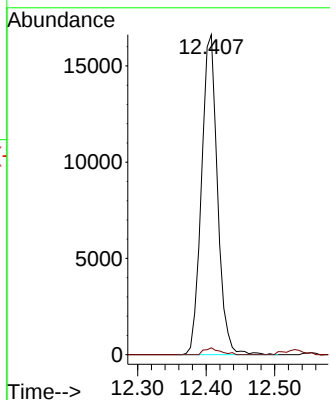
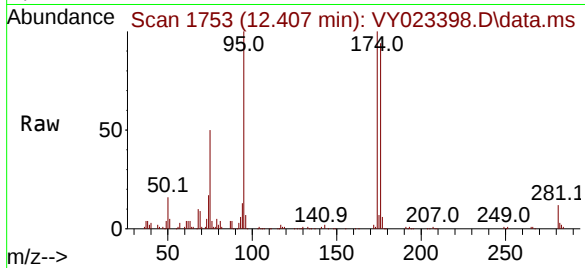




#76
1,2,3-Trichloropropane
Concen: 56.177 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.146 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Instrument :
MSVOA_Y
ClientSampleId :
HL-WEST

Tgt Ion: 75 Resp: 27014
Ion Ratio Lower Upper
75 100
77 2.1 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 137.757 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023398.D
Acq: 08 Oct 2025 11:24

Tgt Ion: 75 Resp: 27014
Ion Ratio Lower Upper
75 100
53 0.3 68.6 102.8#
89 0.2 39.0 58.4#

