

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
 Data File : VY023073.D
 Acq On : 13 Aug 2025 16:30
 Operator : SY/MD
 Sample : Q2819-11
 Misc : 5.46g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 84SB-W

Quant Time: Aug 14 01:26:18 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

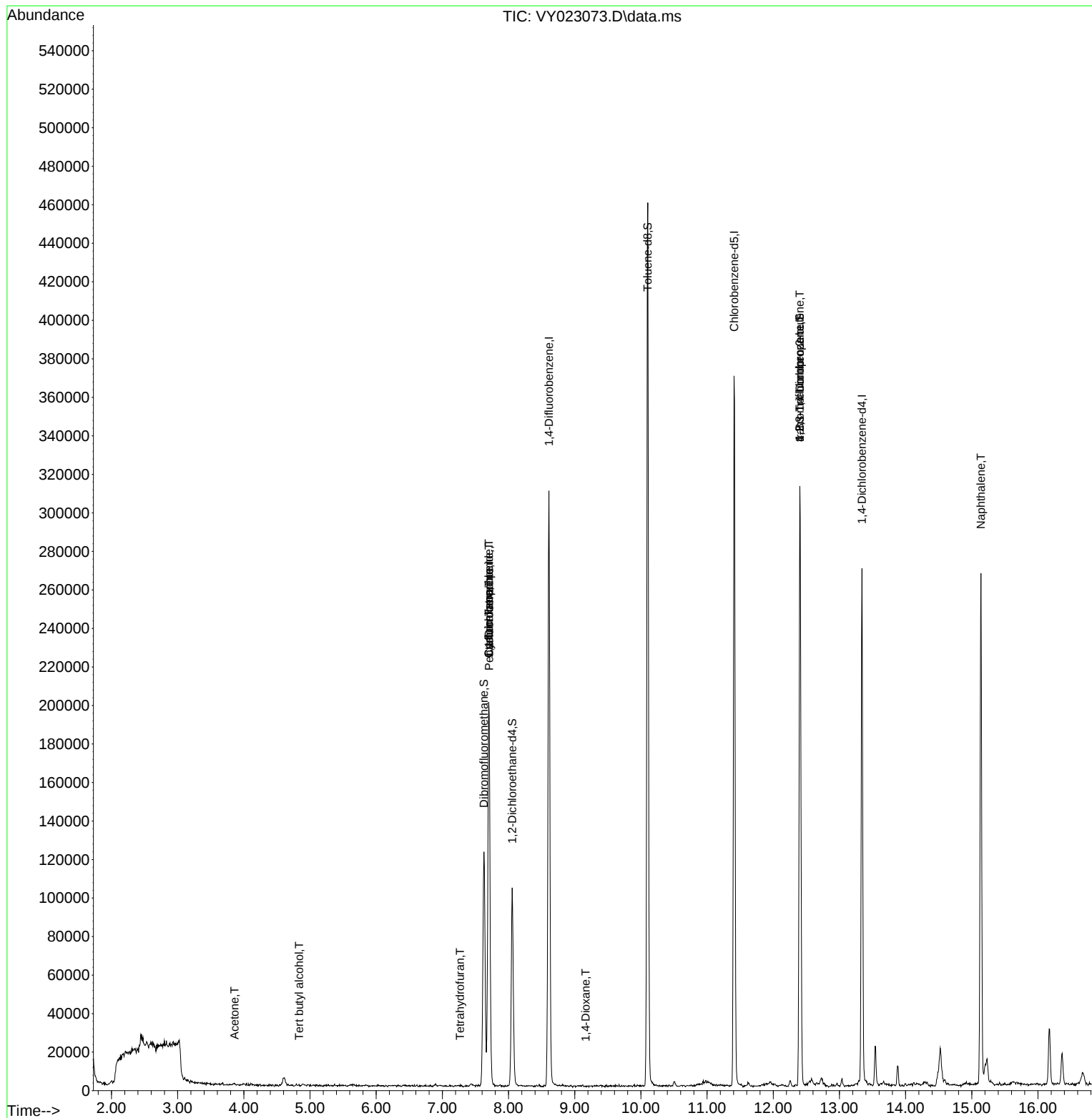
Internal Standards						
1) Pentafluorobenzene	7.707	168	153832	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	260153	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.408	117	196566	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	66820	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	77906	53.137	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 106.280%	
35) Dibromofluoromethane	7.628	113	84686	54.402	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.800%	
50) Toluene-d8	10.103	98	298869	49.146	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 98.300%	
62) 4-Bromofluorobenzene	12.402	95	73961	37.818	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 75.640%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	4.836	59	121	1.204	ug/l #	71
16) Acetone	3.860	43	822	2.588	ug/l #	87
20) Methylene Chloride	4.604	84	2911	Below Cal	#	93
29) Tetrahydrofuran	7.268	42	279	1.042	ug/l #	49
31) Cyclohexane	7.701	56	3551	1.300	ug/l #	24
36) 1,1-Dichloropropene	7.701	75	12098	5.229	ug/l #	49
38) Carbon Tetrachloride	7.701	117	15488	6.164	ug/l #	18
49) 1,4-Dioxane	9.164	88	25	2.264	ug/l #	24
76) 1,2,3-Trichloropropane	12.402	75	40349	62.568	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	40349	151.457	ug/l #	14
95) Naphthalene	15.139	128	213615	108.867	ug/l	100

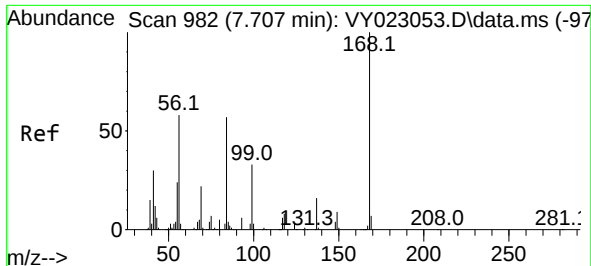
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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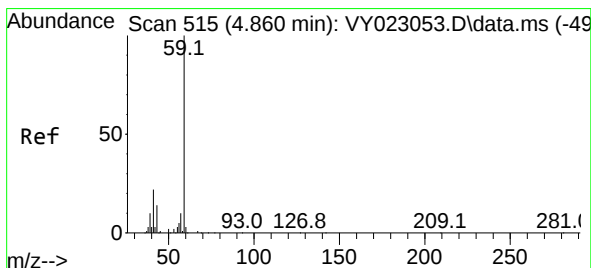
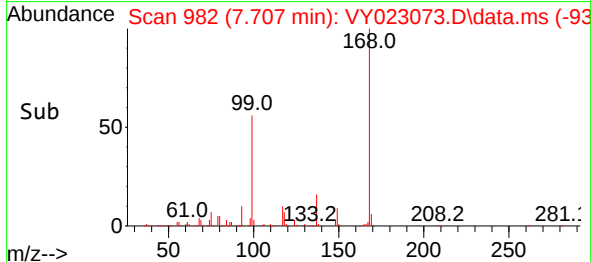
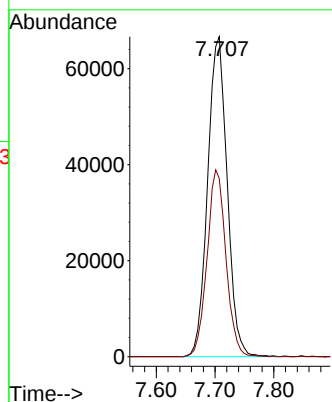
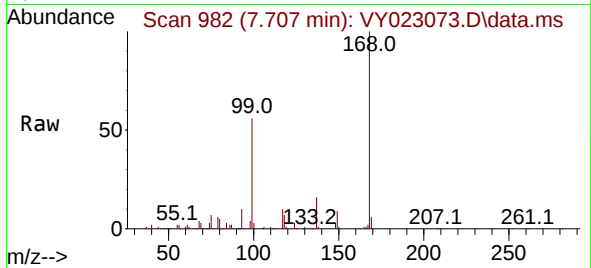




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

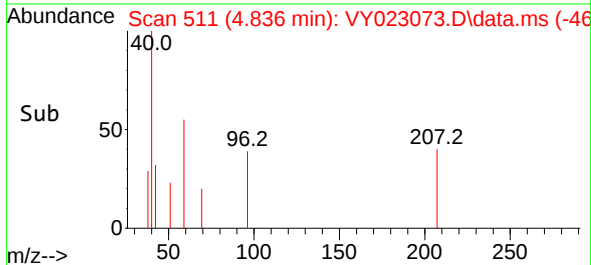
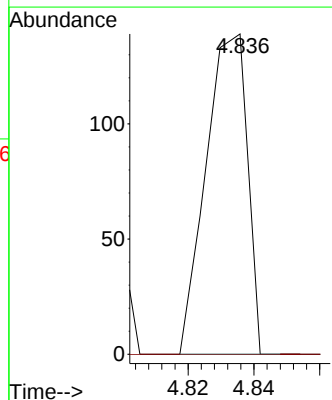
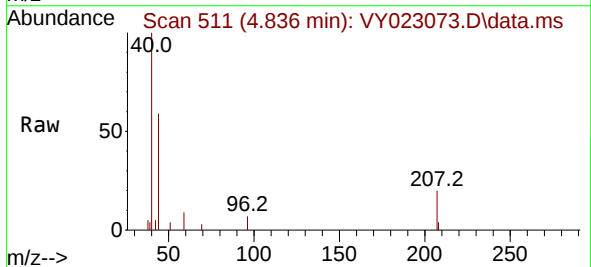
Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

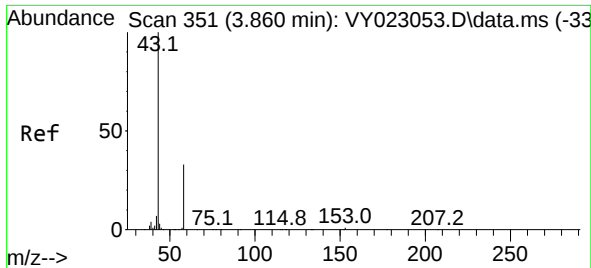
Tgt Ion:168 Resp: 153832
Ion Ratio Lower Upper
168 100
99 55.7 42.8 64.2



#11
Tert butyl alcohol
Concen: 1.204 ug/l
RT: 4.836 min Scan# 511
Delta R.T. -0.024 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 59 Resp: 121
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#





#16

Acetone

Concen: 2.588 ug/l

RT: 3.860 min Scan# 31

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

Instrument :

MSVOA_Y

ClientSampleId :

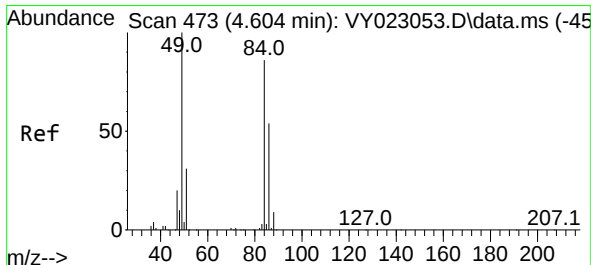
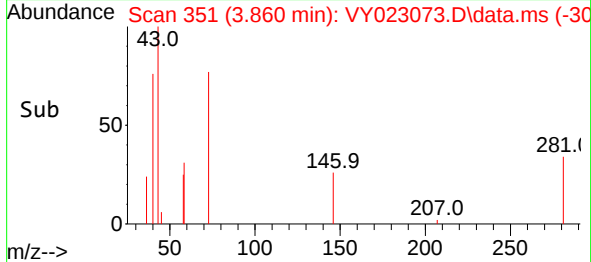
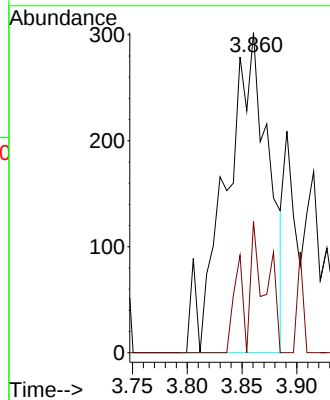
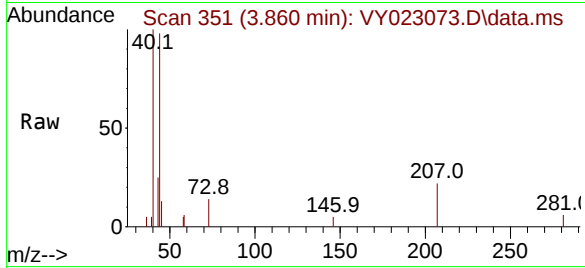
84SB-W

Tgt Ion: 43 Resp: 822

Ion Ratio Lower Upper

43 100

58 41.1 27.1 40.7#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.604 min Scan# 473

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

Tgt Ion: 84 Resp: 2911

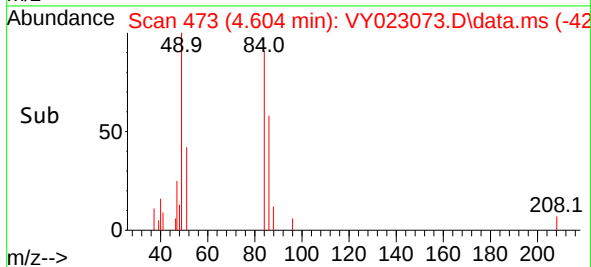
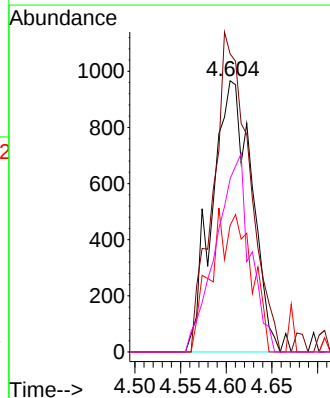
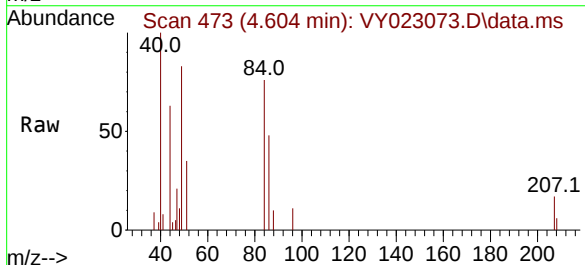
Ion Ratio Lower Upper

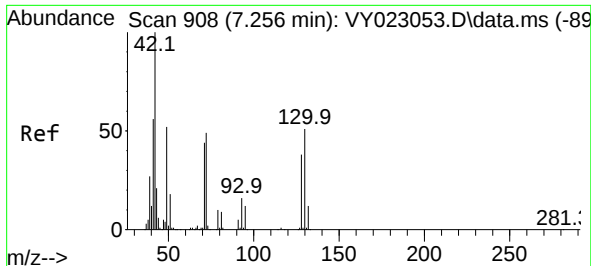
84 100

49 109.9 93.0 139.6

51 46.7 29.0 43.4#

86 63.9 50.2 75.4





#29

Tetrahydrofuran

Concen: 1.042 ug/l

RT: 7.268 min Scan# 91

Delta R.T. 0.012 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

Instrument :

MSVOA_Y

ClientSampleId :

84SB-W

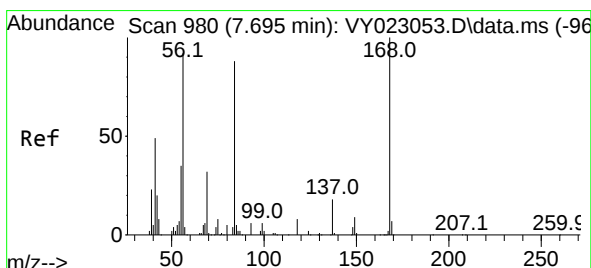
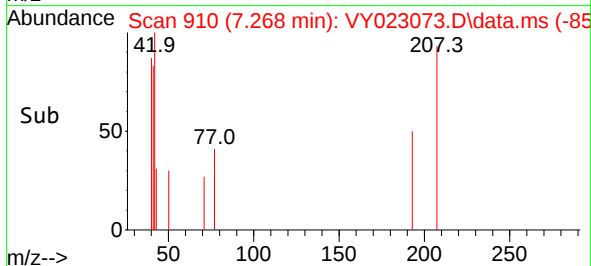
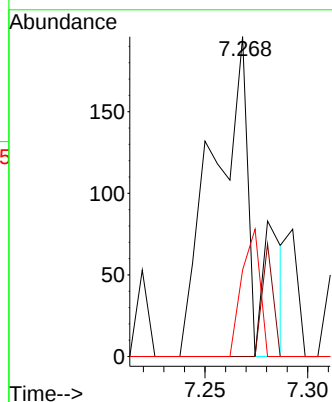
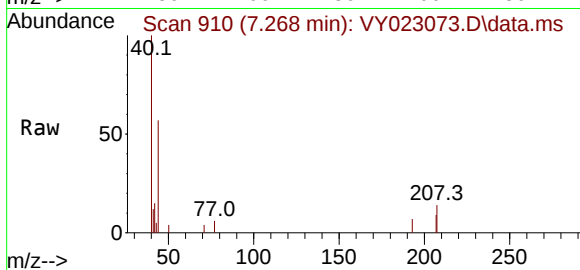
Tgt Ion: 42 Resp: 279

Ion Ratio Lower Upper

42 100

72 9.0 39.4 59.2#

71 17.2 36.5 54.7#



#31

Cyclohexane

Concen: 1.300 ug/l

RT: 7.701 min Scan# 981

Delta R.T. 0.006 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

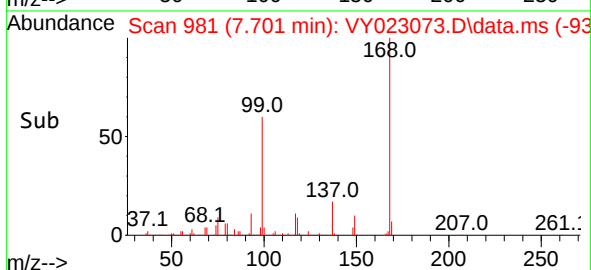
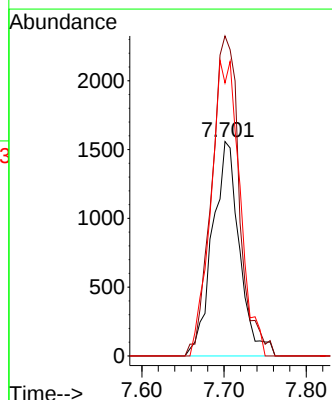
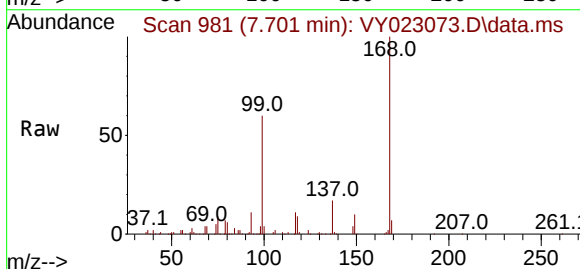
Tgt Ion: 56 Resp: 3551

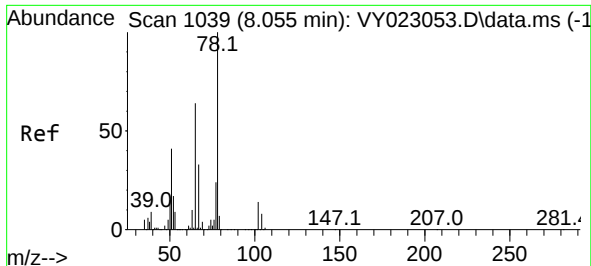
Ion Ratio Lower Upper

56 100

69 149.2 28.2 42.2#

84 127.3 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 53.137 ug/l

RT: 8.055 min Scan# 1103

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

Instrument :

MSVOA_Y

ClientSampleId :

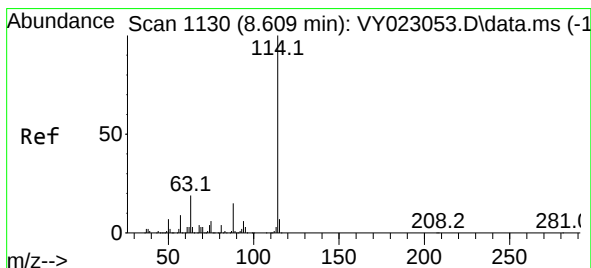
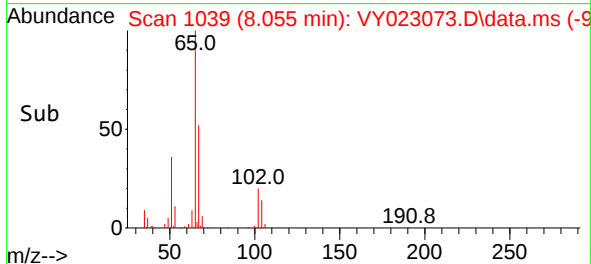
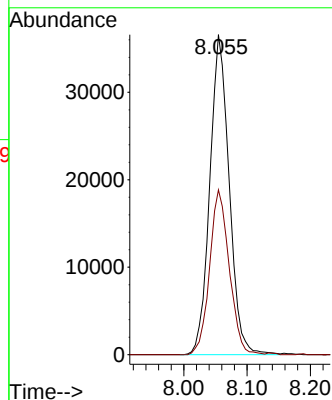
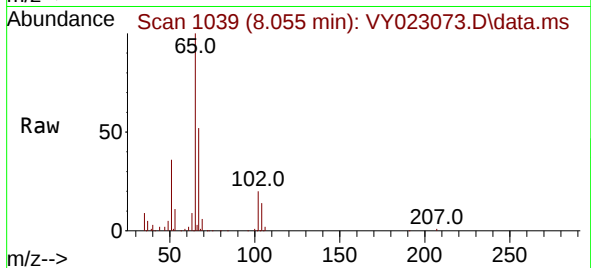
84SB-W

Tgt Ion: 65 Resp: 77906

Ion Ratio Lower Upper

65 100

67 52.1 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

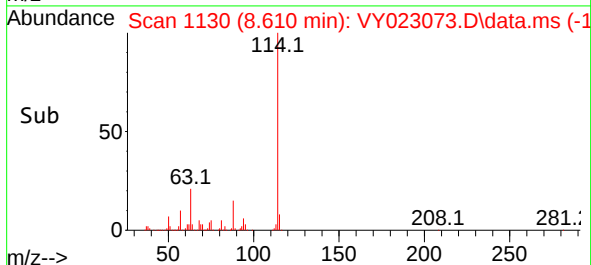
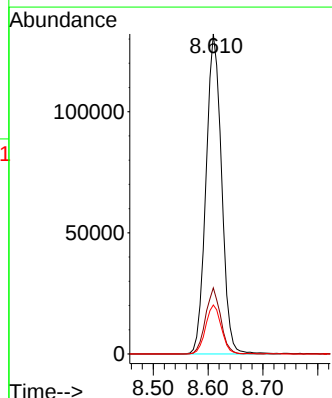
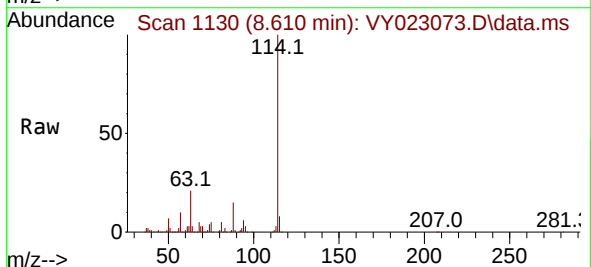
Tgt Ion: 114 Resp: 260153

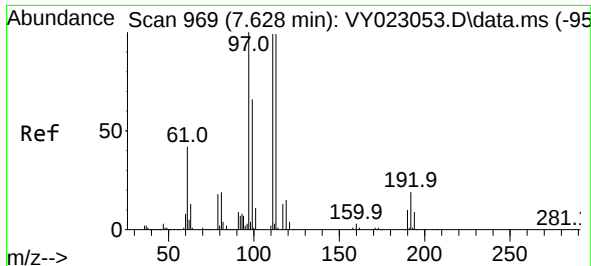
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

88 15.3 0.0 30.0

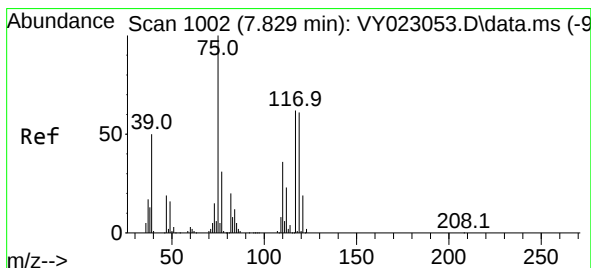
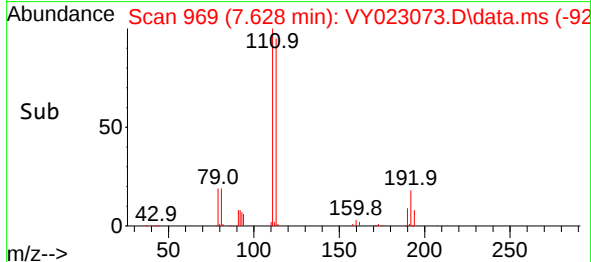
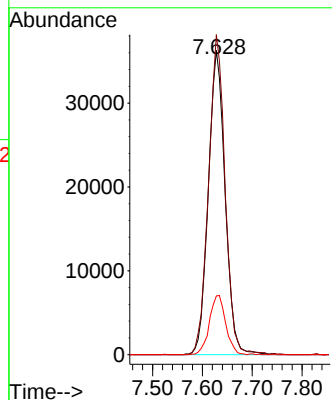
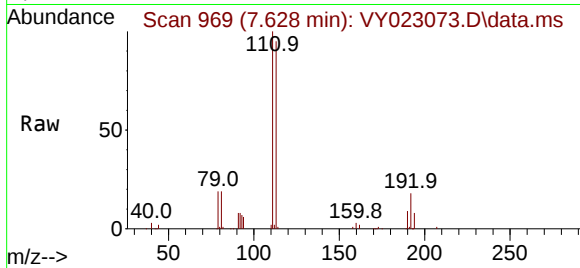




#35
Dibromofluoromethane
Concen: 54.402 ug/l
RT: 7.628 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

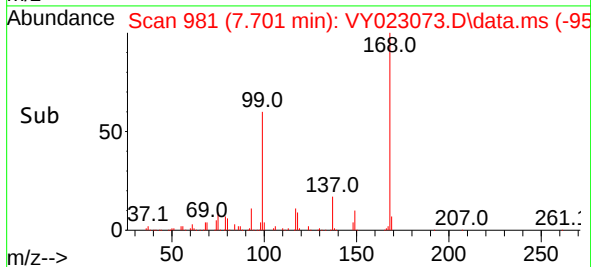
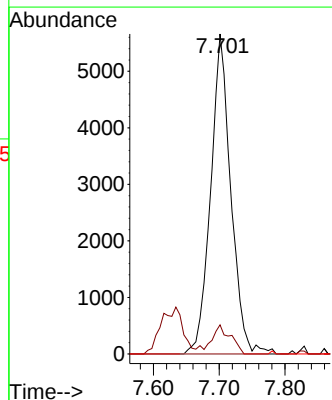
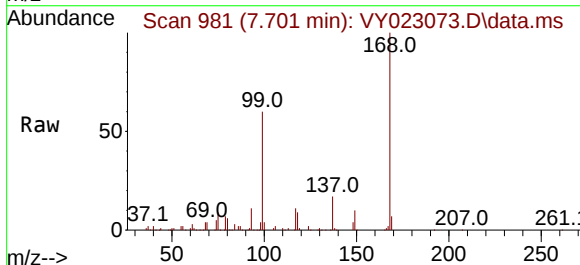
Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

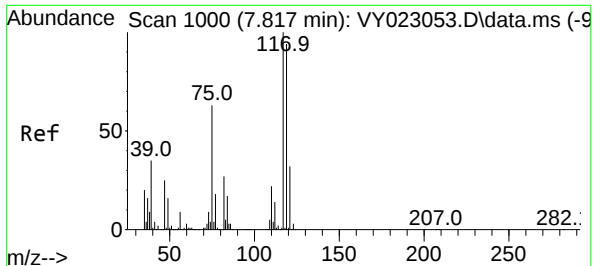
Tgt Ion:113 Resp: 84686
Ion Ratio Lower Upper
113 100
111 103.9 81.1 121.7
192 19.0 16.2 24.4



#36
1,1-Dichloropropene
Concen: 5.229 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.128 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 75 Resp: 12098
Ion Ratio Lower Upper
75 100
110 8.7 18.1 54.4#
77 0.0 24.6 37.0#

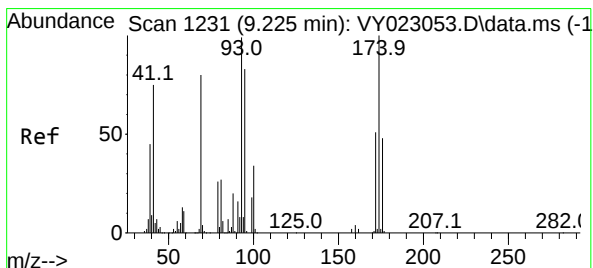
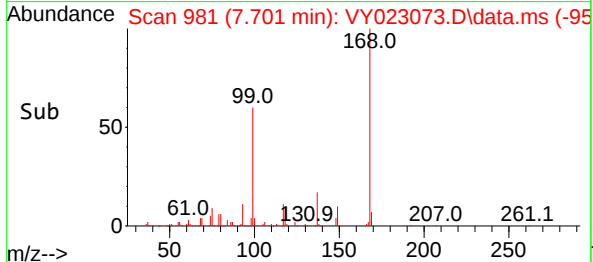
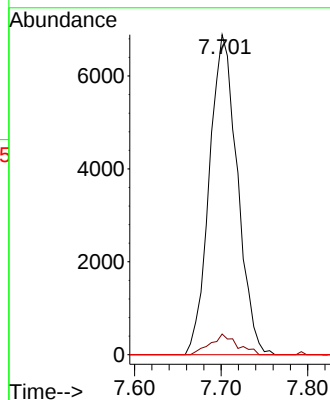
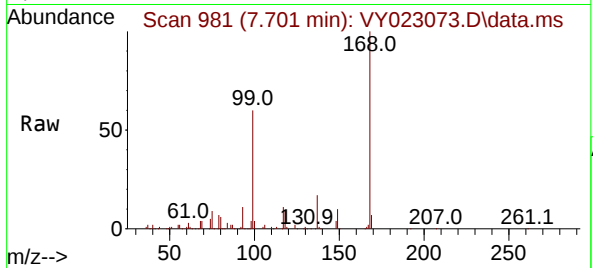




#38
Carbon Tetrachloride
Concen: 6.164 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

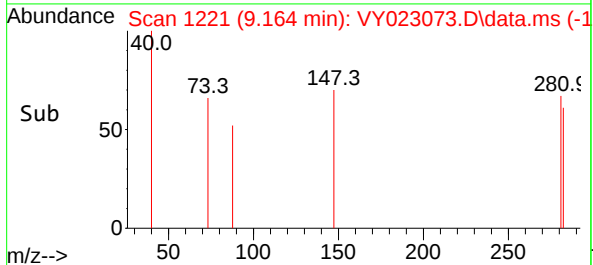
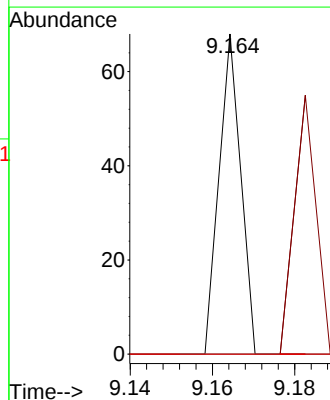
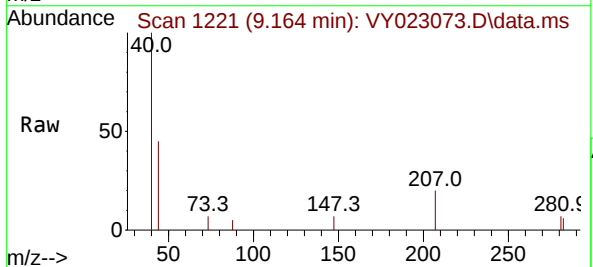
Instrument :
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84SB-W

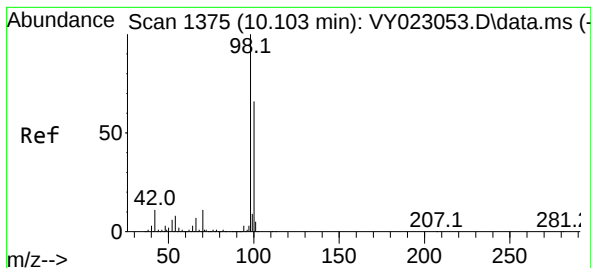
Tgt Ion:117 Resp: 15488
Ion Ratio Lower Upper
117 100
119 6.4 75.6 113.4#
121 0.0 25.8 38.8#



#49
1,4-Dioxane
Concen: 2.264 ug/l
RT: 9.164 min Scan# 1221
Delta R.T. -0.061 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 88 Resp: 25
Ion Ratio Lower Upper
88 100
43 0.0 24.3 36.5#
58 0.0 55.4 83.0#

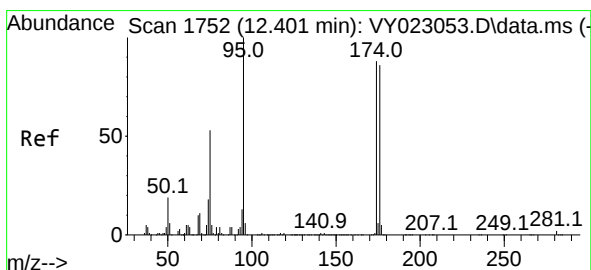
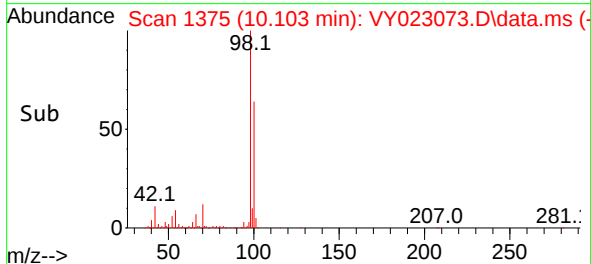
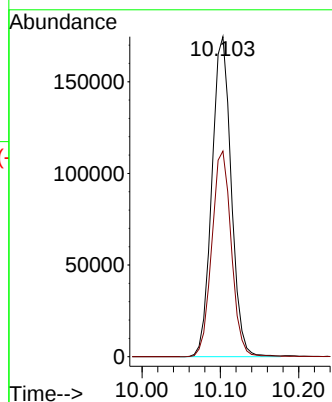
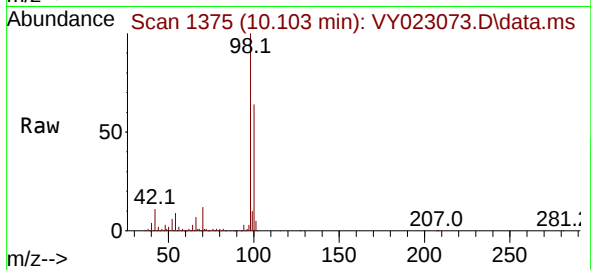




#50
Toluene-d8
Concen: 49.146 ug/l
RT: 10.103 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

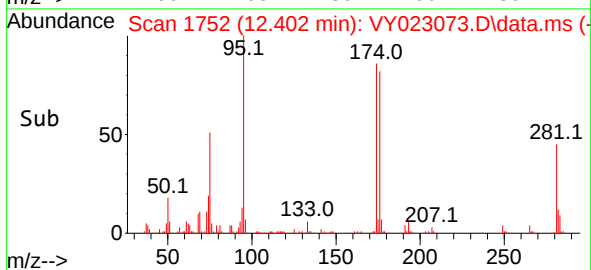
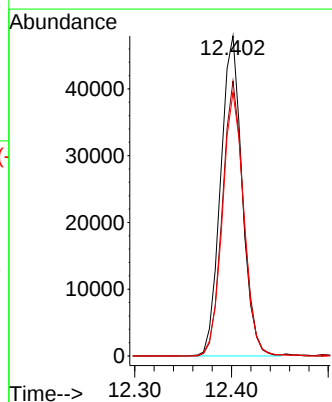
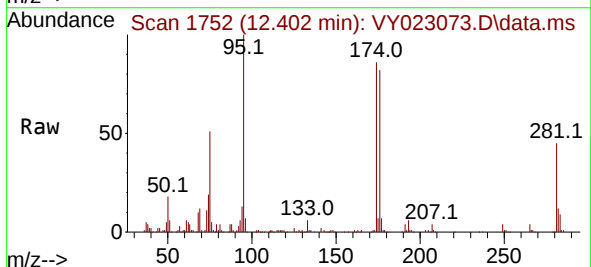
Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

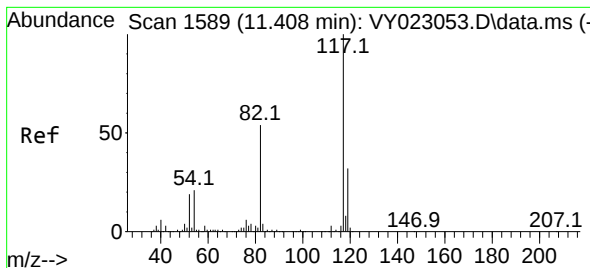
Tgt Ion: 98 Resp: 298869
Ion Ratio Lower Upper
98 100
100 64.9 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 37.818 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Tgt Ion: 95 Resp: 73961
Ion Ratio Lower Upper
95 100
174 84.2 0.0 171.6
176 82.3 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.408 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

Instrument :

MSVOA_Y

ClientSampleId :

84SB-W

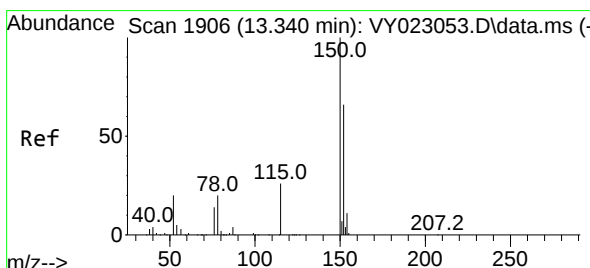
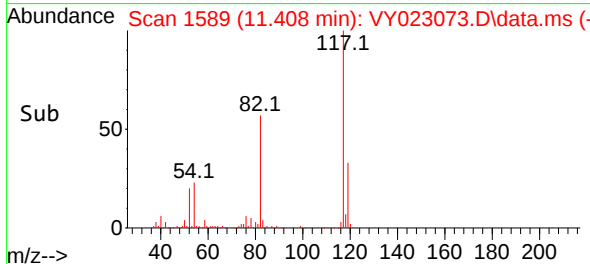
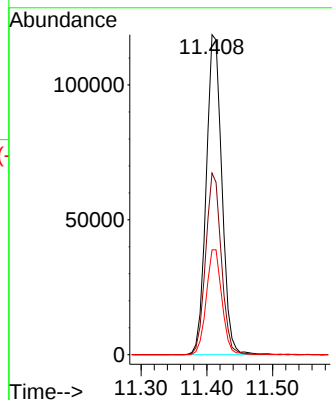
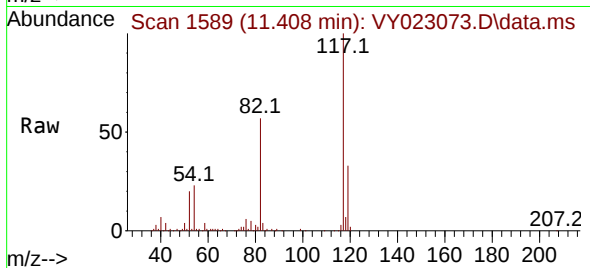
Tgt Ion:117 Resp: 196566

Ion Ratio Lower Upper

117 100

82 56.7 43.4 65.0

119 32.8 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. 0.000 min

Lab File: VY023073.D

Acq: 13 Aug 2025 16:30

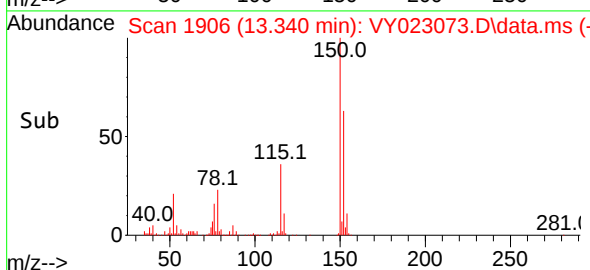
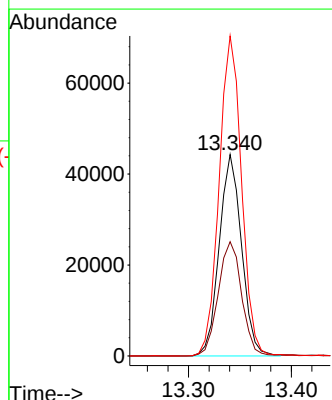
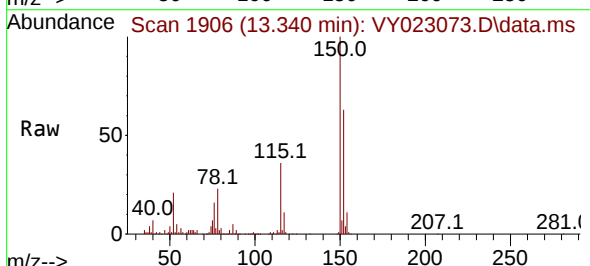
Tgt Ion:152 Resp: 66820

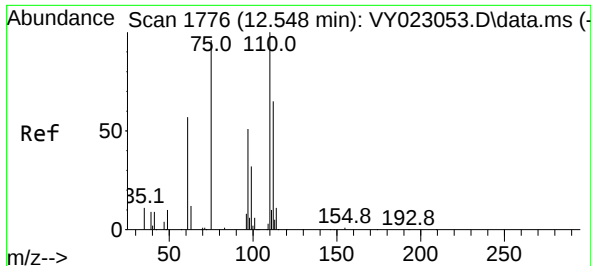
Ion Ratio Lower Upper

152 100

115 59.8 28.2 84.6

150 159.5 0.0 348.0

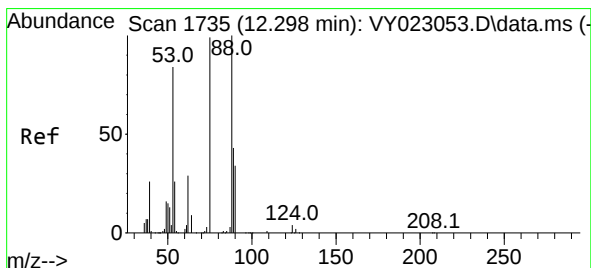
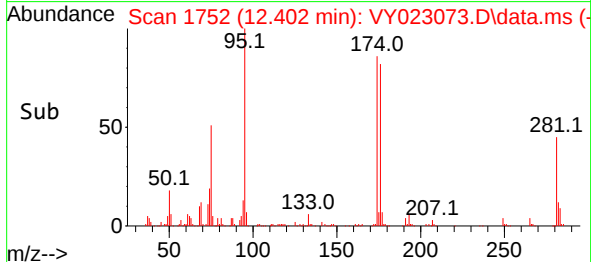
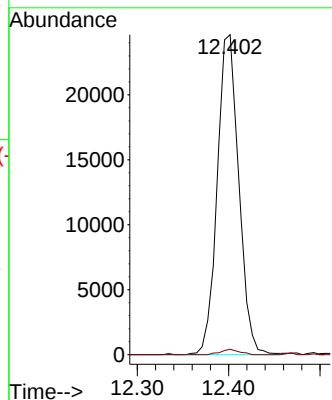
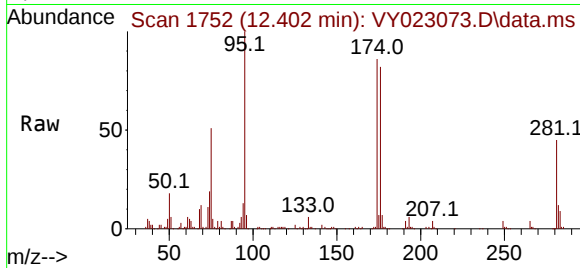




#76
1,2,3-Trichloropropane
Concen: 62.568 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.146 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

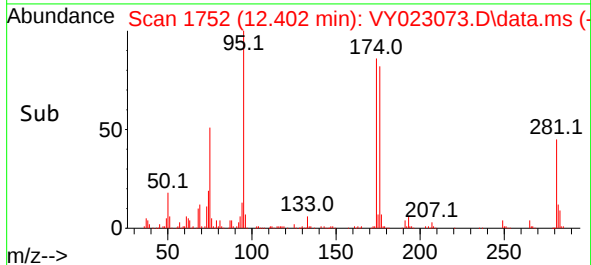
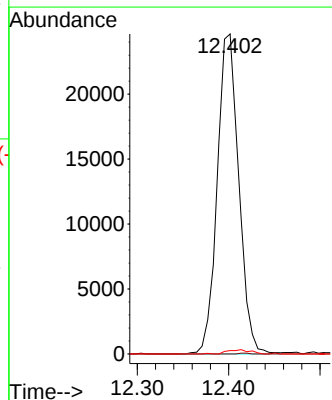
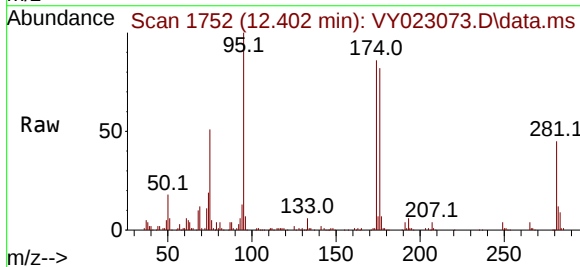
Instrument :
MSVOA_Y
ClientSampleId :
84SB-W

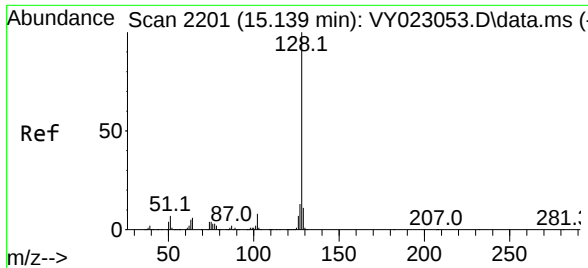
Tgt Ion: 75 Resp: 40349
Ion Ratio Lower Upper
75 100
77 1.5 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 151.457 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.104 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

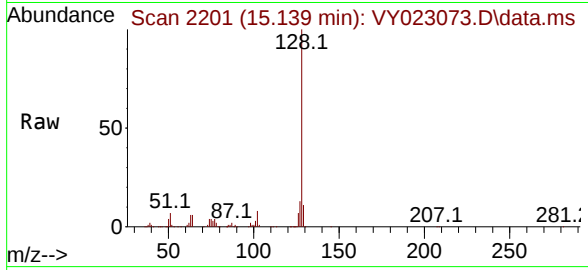
Tgt Ion: 75 Resp: 40349
Ion Ratio Lower Upper
75 100
53 0.1 70.8 106.2#
89 1.4 38.1 57.1#





#95
Naphthalene
Concen: 108.867 ug/l
RT: 15.139 min Scan# 21
Delta R.T. 0.000 min
Lab File: VY023073.D
Acq: 13 Aug 2025 16:30

Instrument :
MSVOA_Y
ClientSampleId :
84SB-W



Tgt Ion:128 Resp: 213615
Ion Ratio Lower Upper
128 100
127 13.1 10.4 15.6
129 11.1 9.0 13.4

