

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY081325\
 Data File : VY023070.D
 Acq On : 13 Aug 2025 15:19
 Operator : SY/MD
 Sample : Q2819-08
 Misc : 5.47g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 11M-E

Quant Time: Aug 14 01:25:12 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)

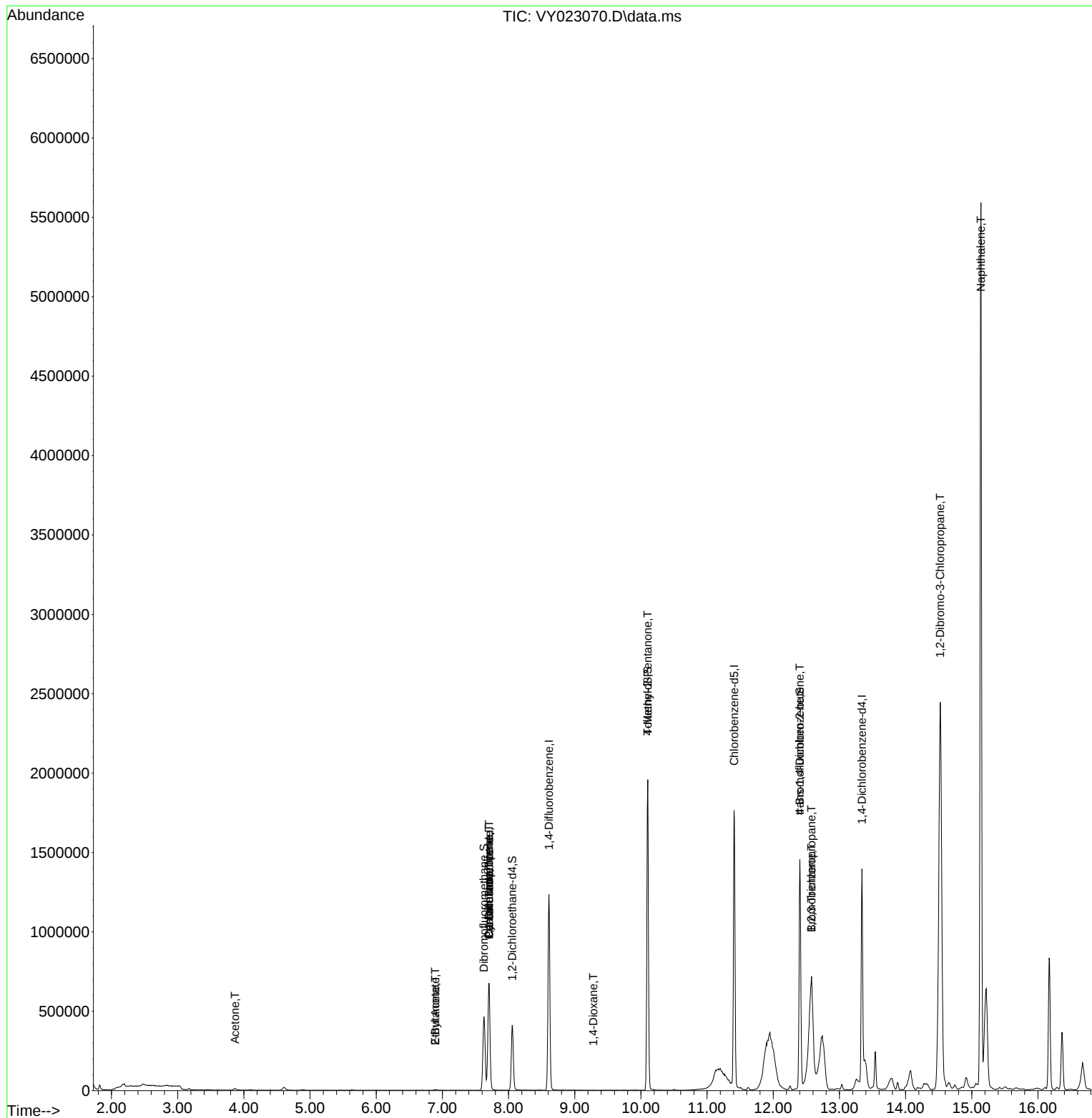
Internal Standards						
1) Pentafluorobenzene	7.707	168	520297	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.609	114	1036801	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.407	117	905464	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	338962	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.054	65	311975	62.914	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 125.820%	
35) Dibromofluoromethane	7.628	113	332447	53.587	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 107.180%	
50) Toluene-d8	10.103	98	1243938	51.326	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.660%	
62) 4-Bromofluorobenzene	12.401	95	349682	44.864	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 89.720%	
Target Compounds						
					Qvalue	
16) Acetone	3.866	43	17431	16.226	ug/l	97
20) Methylene Chloride	4.610	84	13447	Below Cal		88
25) 2-Butanone	6.890	43	5327	3.646	ug/l #	88
31) Cyclohexane	7.701	56	11796	1.277	ug/l #	11
36) 1,1-Dichloropropene	7.701	75	40993	4.446	ug/l #	50
37) Ethyl Acetate	6.890	43	5327	1.375	ug/l #	67
38) Carbon Tetrachloride	7.707	117	51354	5.128	ug/l #	16
49) 1,4-Dioxane	9.280	88	71	1.614	ug/l #	24
51) 4-Methyl-2-Pentanone	10.103	43	5797	1.436	ug/l #	1
76) 1,2,3-Trichloropropane	12.578	75	26081	7.973	ug/l #	100
77) Bromobenzene	12.578	156	776312	136.018	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.401	75	193841	143.436	ug/l #	14
92) 1,2-Dibromo-3-Chloropr...	14.523	75	123867	194.758	ug/l #	13
95) Naphthalene	15.138	128	4342336	436.257	ug/l	100

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

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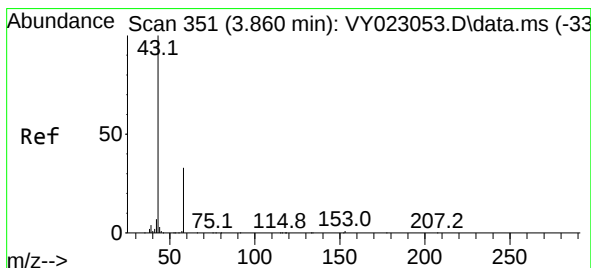
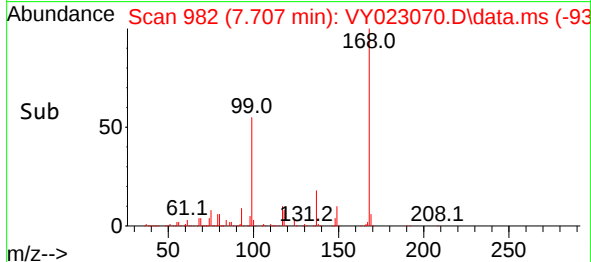
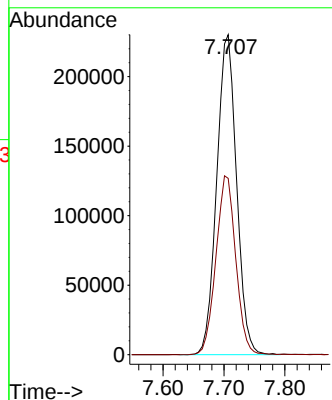
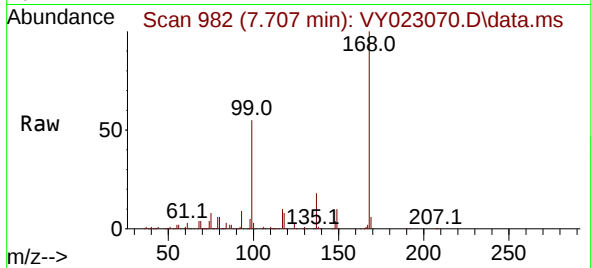




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

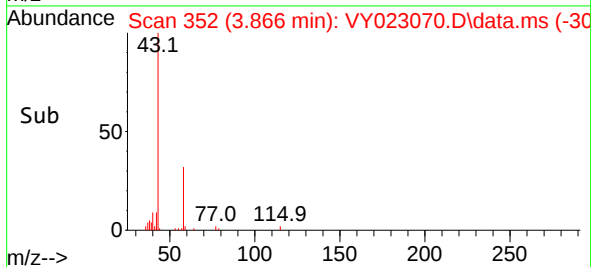
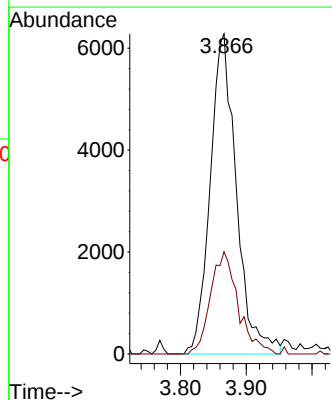
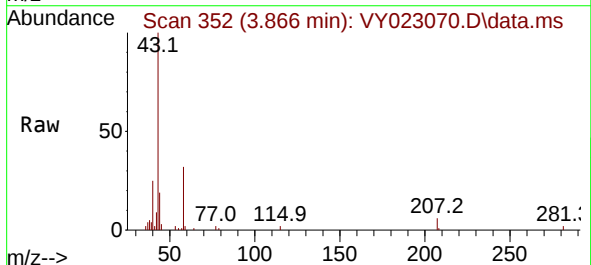
Instrument :
MSVOA_Y
ClientSampleId :
11M-E

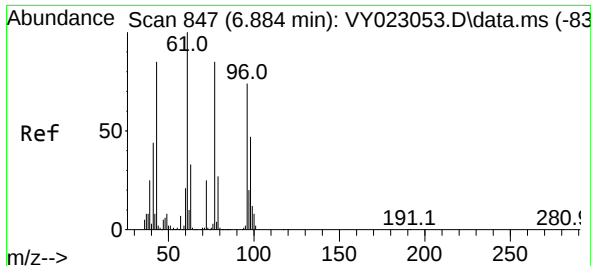
Tgt Ion:168 Resp: 520297
Ion Ratio Lower Upper
168 100
99 55.1 42.8 64.2



#16
Acetone
Concen: 16.226 ug/l
RT: 3.866 min Scan# 352
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 43 Resp: 17431
Ion Ratio Lower Upper
43 100
58 32.0 27.1 40.7

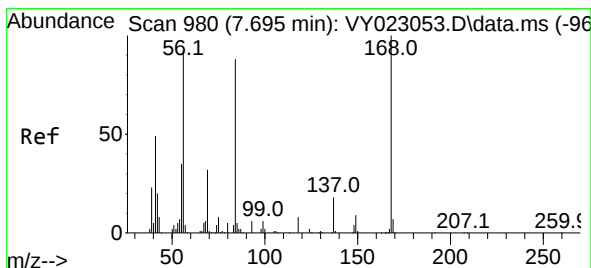
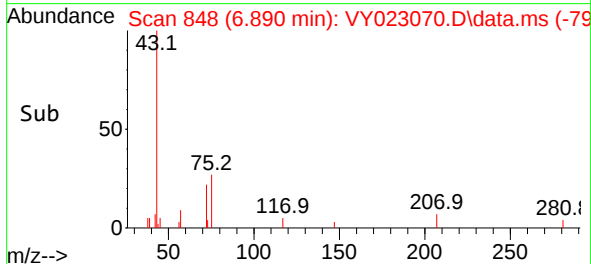
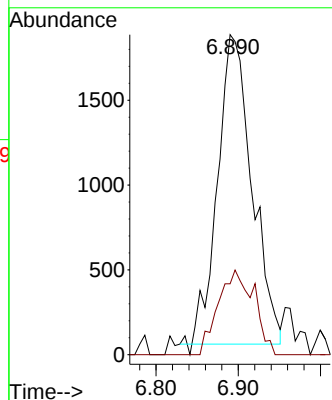
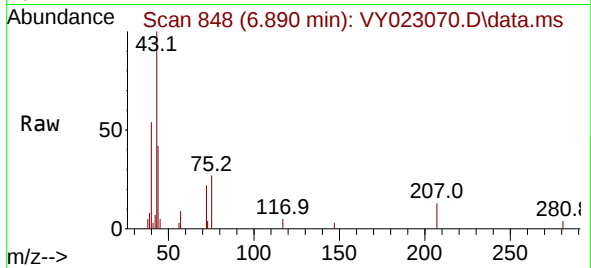




#25
2-Butanone
Concen: 3.646 ug/l
RT: 6.890 min Scan# 847
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

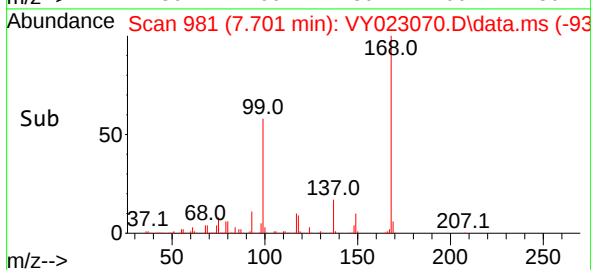
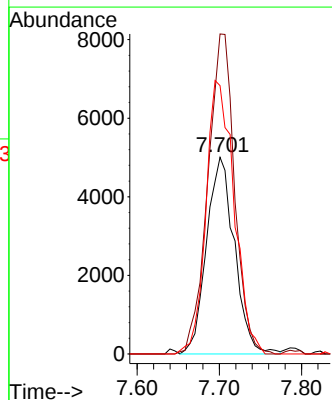
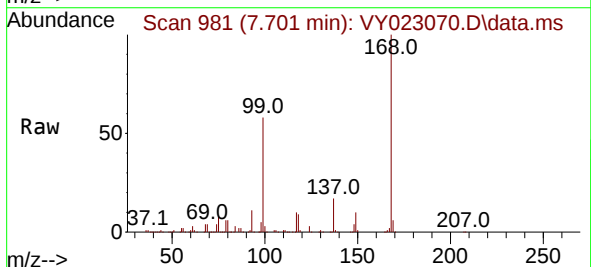
Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion: 43 Resp: 5327
Ion Ratio Lower Upper
43 100
72 22.9 23.5 35.3#



#31
Cyclohexane
Concen: 1.277 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 56 Resp: 11796
Ion Ratio Lower Upper
56 100
69 162.7 28.2 42.2#
84 136.4 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 62.914 ug/l

RT: 8.054 min Scan# 110

Delta R.T. -0.000 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :

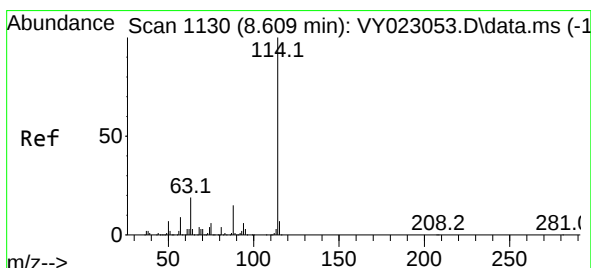
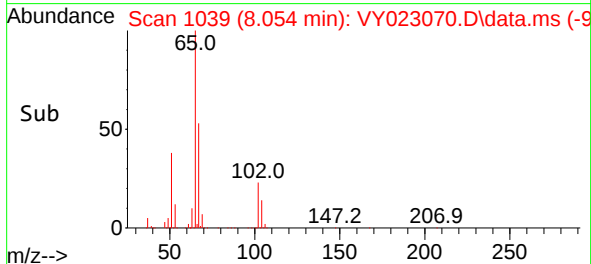
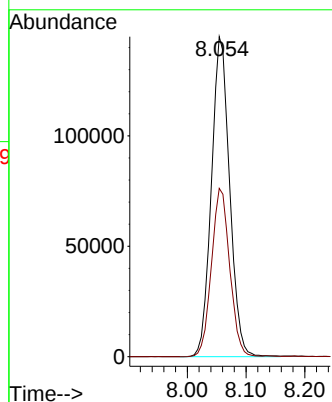
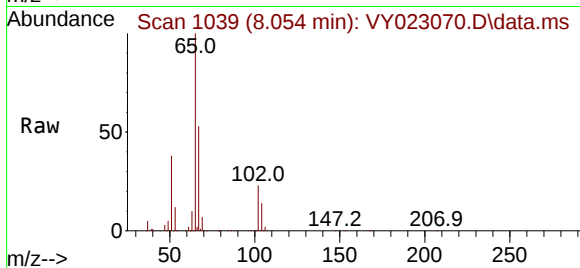
11M-E

Tgt Ion: 65 Resp: 311975

Ion Ratio Lower Upper

65 100

67 52.7 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.000 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

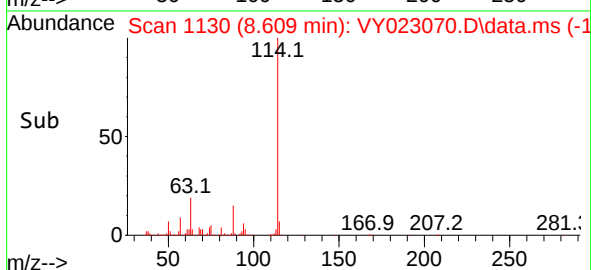
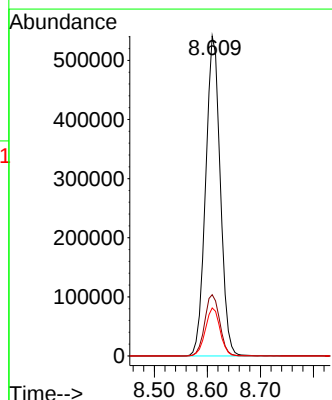
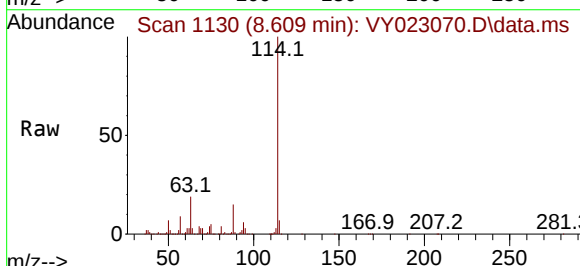
Tgt Ion: 114 Resp: 1036801

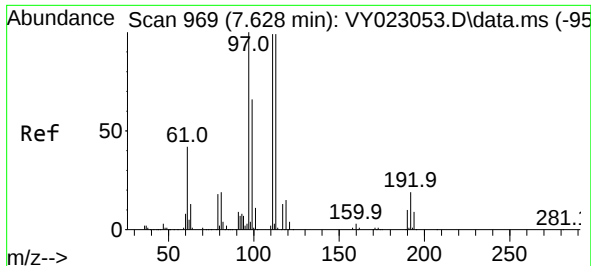
Ion Ratio Lower Upper

114 100

63 19.1 0.0 38.4

88 15.0 0.0 30.0

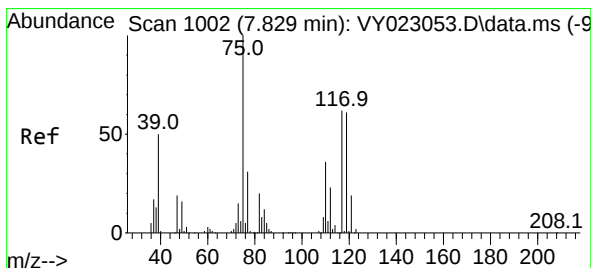
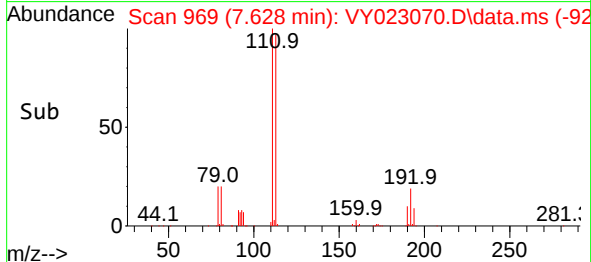
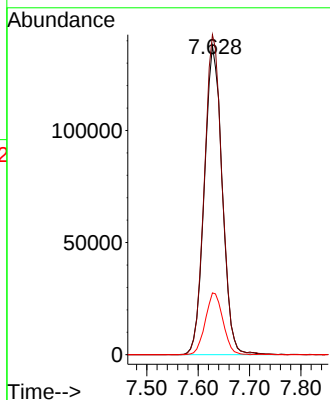
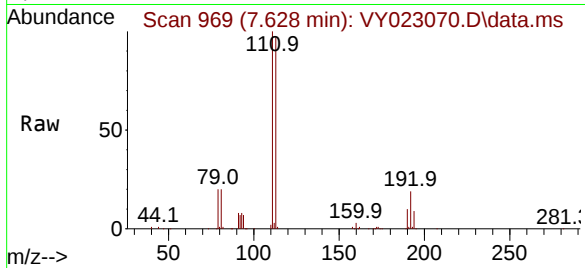




#35
Dibromofluoromethane
Concen: 53.587 ug/l
RT: 7.628 min Scan# 901
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

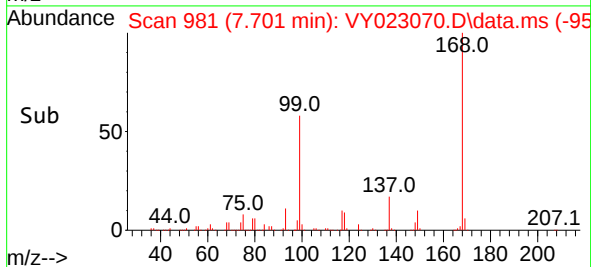
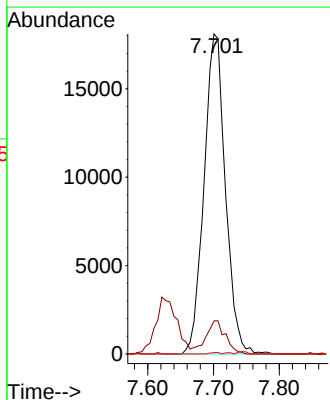
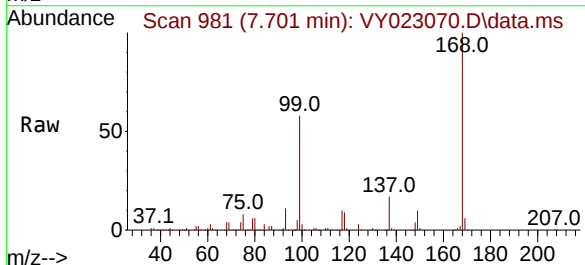
Instrument :
MSVOA_Y
ClientSampleId :
11M-E

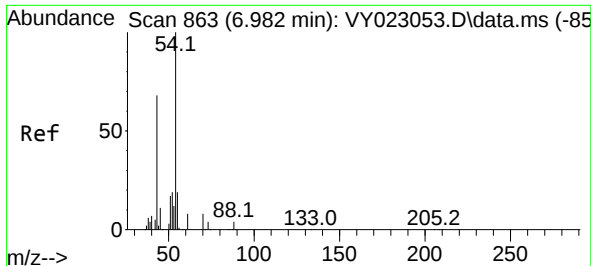
Tgt Ion:113 Resp: 332447
Ion Ratio Lower Upper
113 100
111 102.8 81.1 121.7
192 19.8 16.2 24.4



#36
1,1-Dichloropropene
Concen: 4.446 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.128 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 75 Resp: 40993
Ion Ratio Lower Upper
75 100
110 9.3 18.1 54.4#
77 0.2 24.6 37.0#

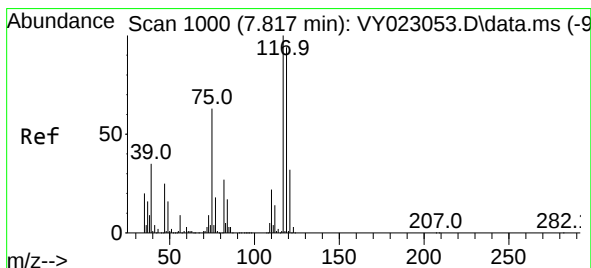
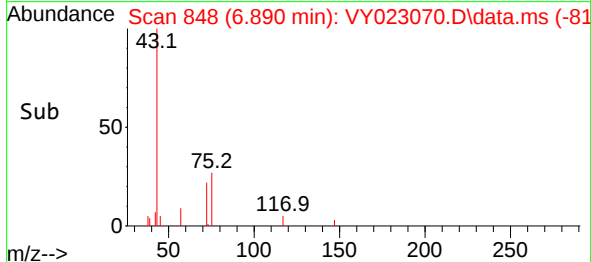
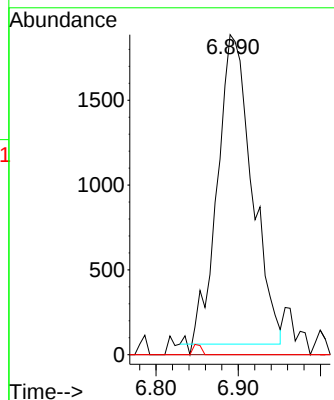
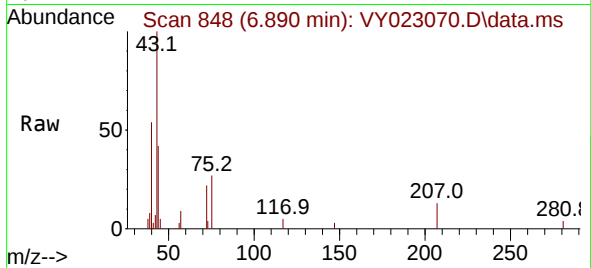




#37
Ethyl Acetate
Concen: 1.375 ug/l
RT: 6.890 min Scan# 841
Delta R.T. -0.092 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

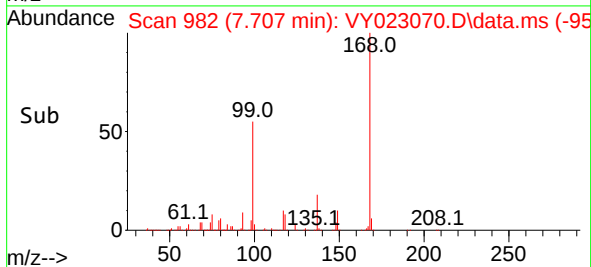
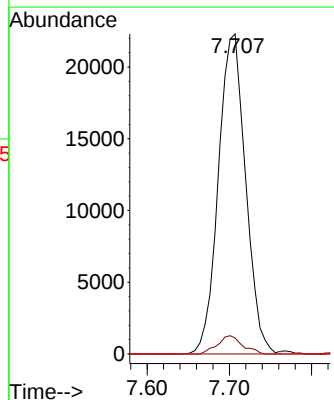
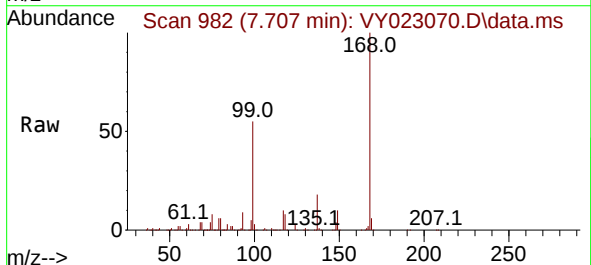
Instrument :
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ClientSampleId :
11M-E

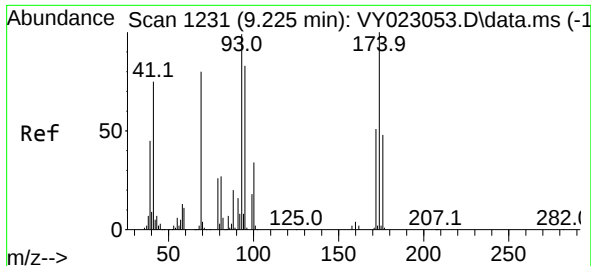
Tgt Ion: 43 Resp: 5327
Ion Ratio Lower Upper
43 100
61 0.0 11.9 17.9#
70 0.0 8.8 13.2#



#38
Carbon Tetrachloride
Concen: 5.128 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 117 Resp: 51354
Ion Ratio Lower Upper
117 100
119 5.0 75.6 113.4#
121 0.0 25.8 38.8#





#49

1,4-Dioxane

Concen: 1.614 ug/l

RT: 9.280 min Scan# 11

Delta R.T. 0.055 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :

11M-E

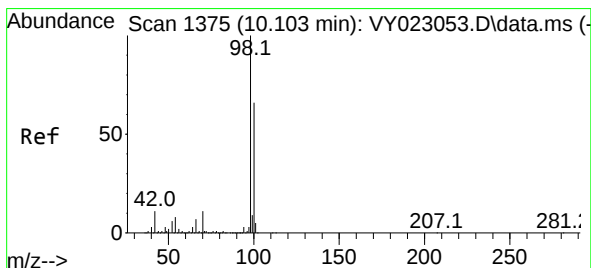
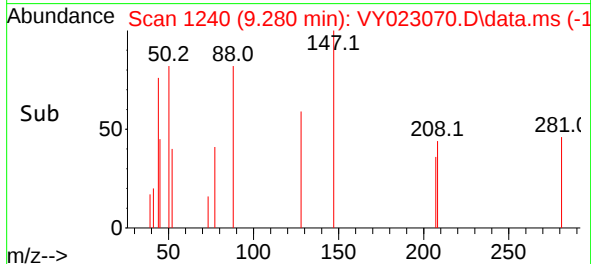
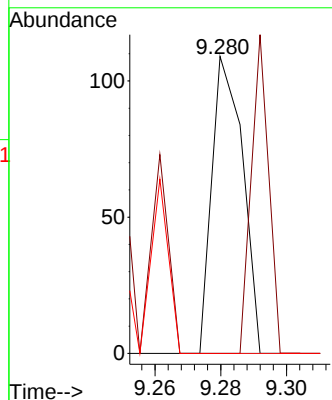
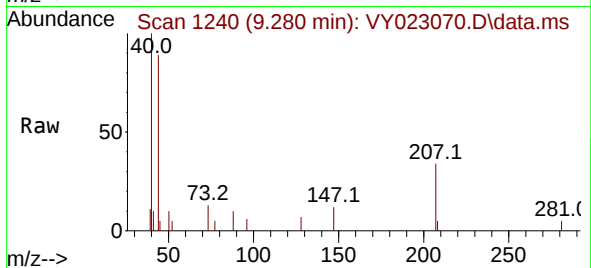
Tgt Ion: 88 Resp: 71

Ion Ratio Lower Upper

88 100

43 60.6 24.3 36.5#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 51.326 ug/l

RT: 10.103 min Scan# 1375

Delta R.T. -0.000 min

Lab File: VY023070.D

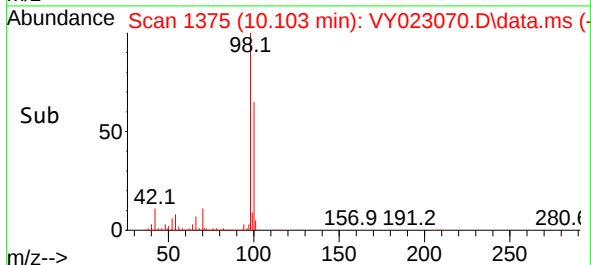
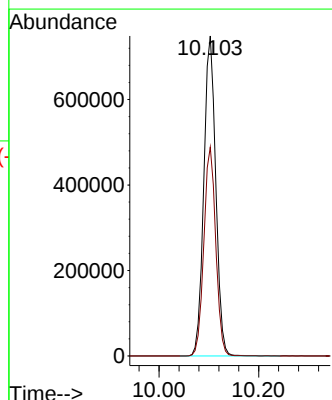
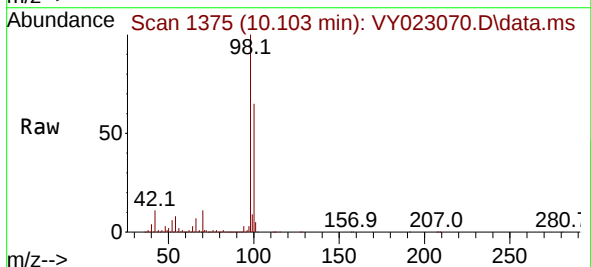
Acq: 13 Aug 2025 15:19

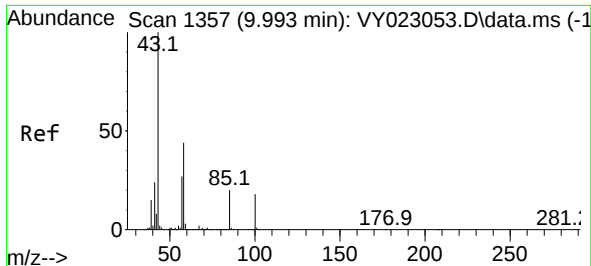
Tgt Ion: 98 Resp: 1243938

Ion Ratio Lower Upper

98 100

100 65.0 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.436 ug/l

RT: 10.103 min Scan# 1357

Delta R.T. 0.109 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

Instrument :

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ClientSampleId :

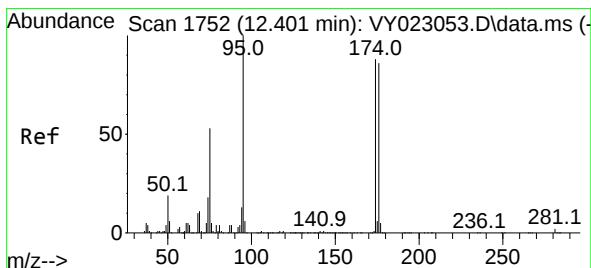
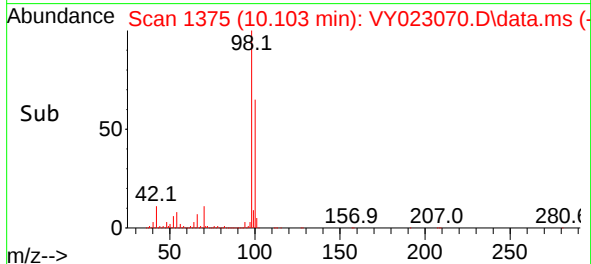
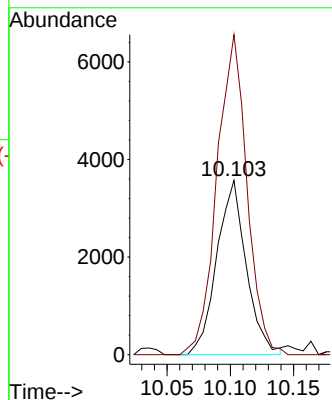
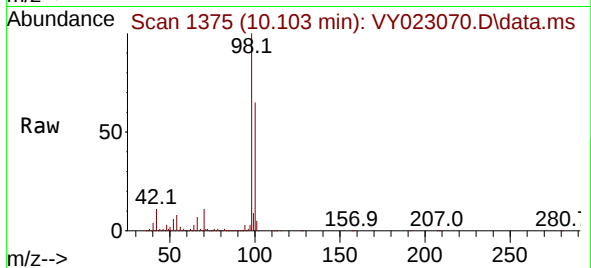
11M-E

Tgt Ion: 43 Resp: 5797

Ion Ratio Lower Upper

43 100

58 186.6 33.5 50.3#



#62

4-Bromofluorobenzene

Concen: 44.864 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.000 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

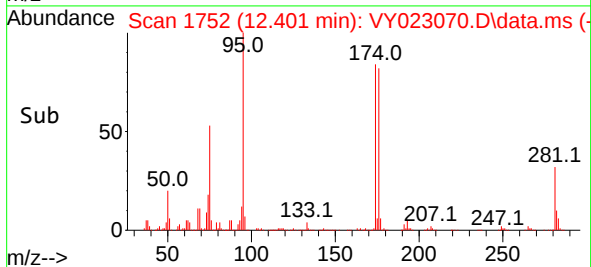
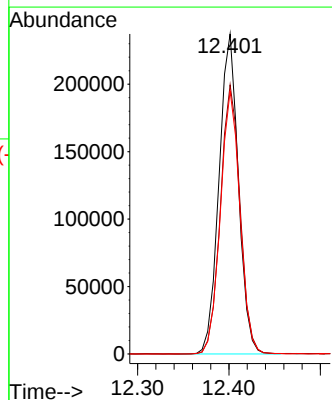
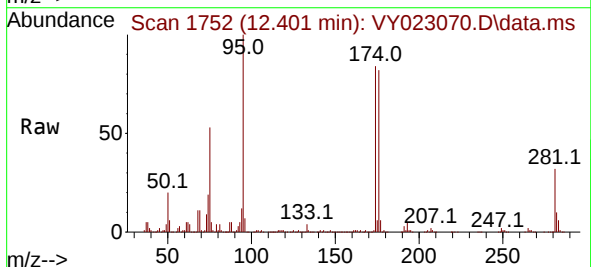
Tgt Ion: 95 Resp: 349682

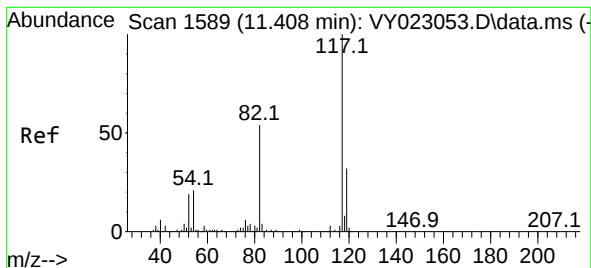
Ion Ratio Lower Upper

95 100

174 85.7 0.0 171.6

176 82.9 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.407 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :

11M-E

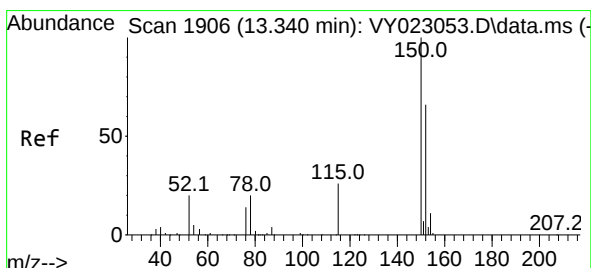
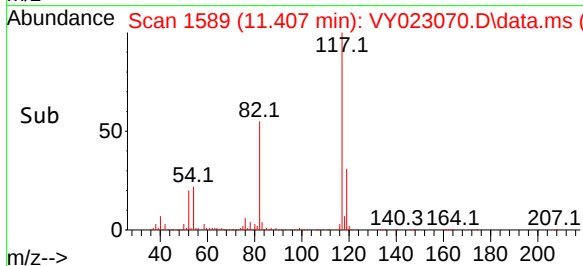
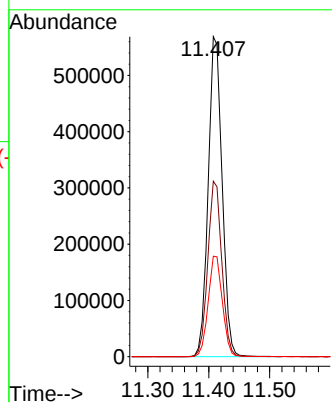
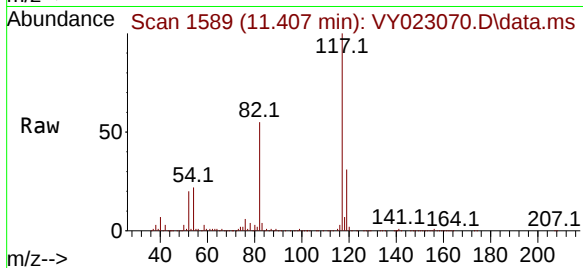
Tgt Ion:117 Resp: 905464

Ion Ratio Lower Upper

117 100

82 54.8 43.4 65.0

119 31.4 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: VY023070.D

Acq: 13 Aug 2025 15:19

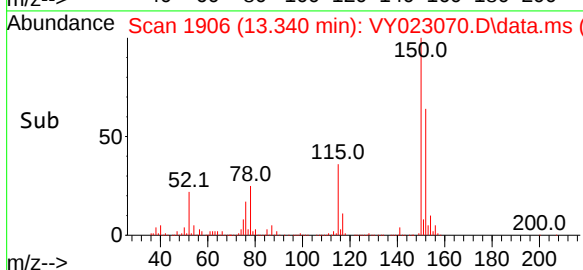
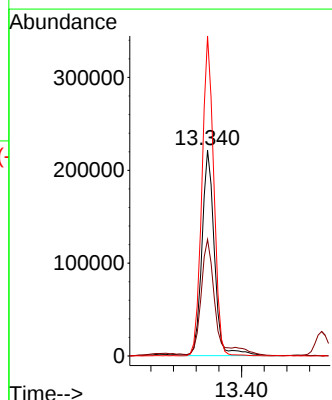
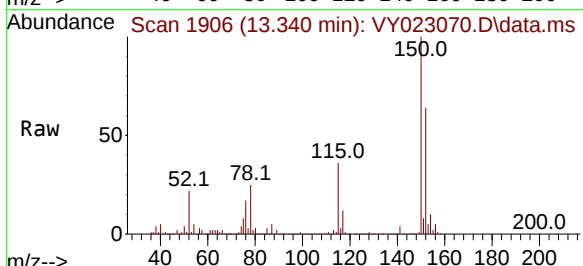
Tgt Ion:152 Resp: 338962

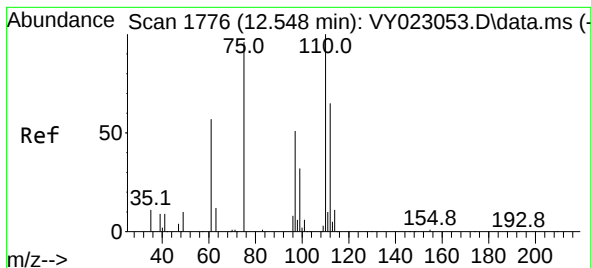
Ion Ratio Lower Upper

152 100

115 57.7 28.2 84.6

150 147.7 0.0 348.0





#76

1,2,3-Trichloropropane

Concen: 7.973 ug/l

RT: 12.578 min Scan# 1781

Delta R.T. 0.030 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

Instrument :

MSVOA_Y

ClientSampleId :

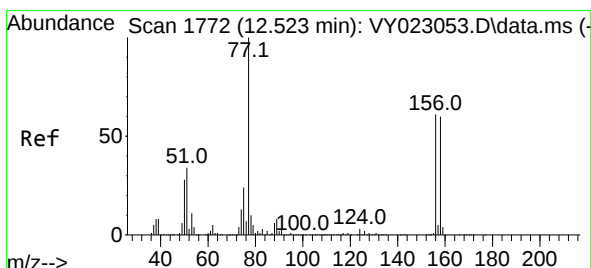
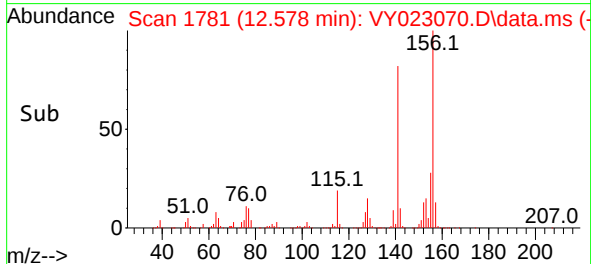
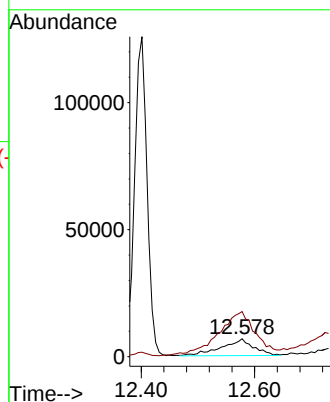
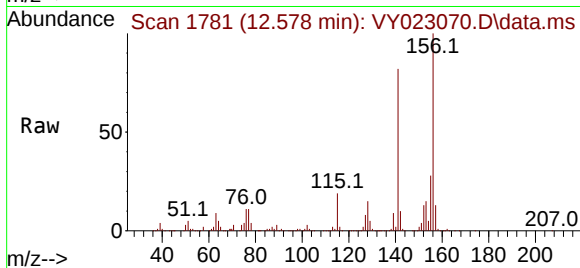
11M-E

Tgt Ion: 75 Resp: 26081

Ion Ratio Lower Upper

75 100

77 311.6 0.0 0.0#



#77

Bromobenzene

Concen: 136.018 ug/l

RT: 12.578 min Scan# 1781

Delta R.T. 0.055 min

Lab File: VY023070.D

Acq: 13 Aug 2025 15:19

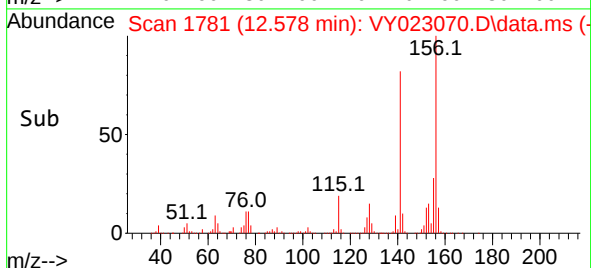
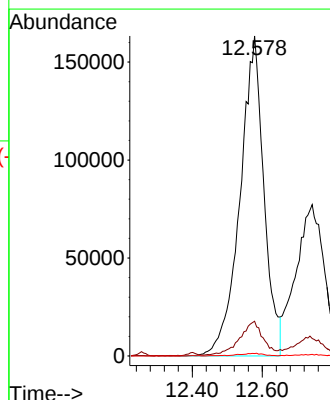
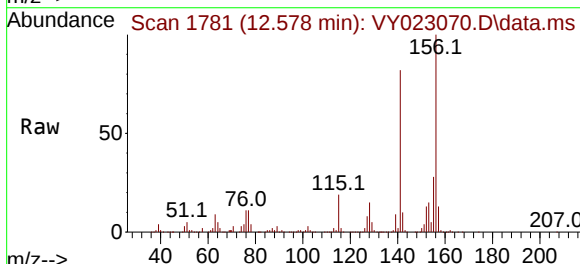
Tgt Ion:156 Resp: 776312

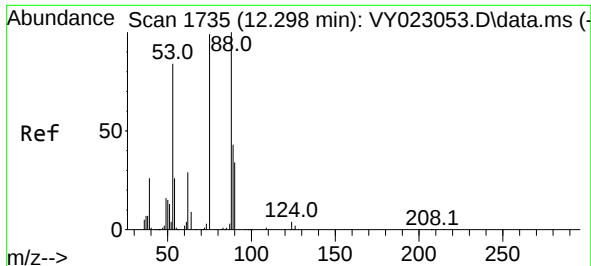
Ion Ratio Lower Upper

156 100

77 10.3 88.1 264.4#

158 0.7 48.0 144.0#

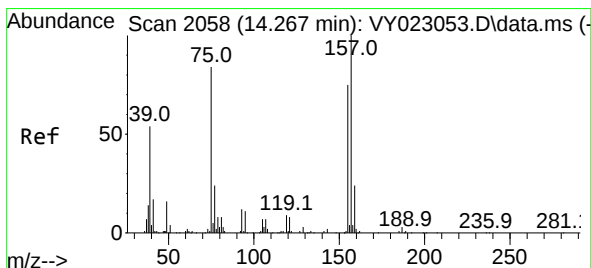
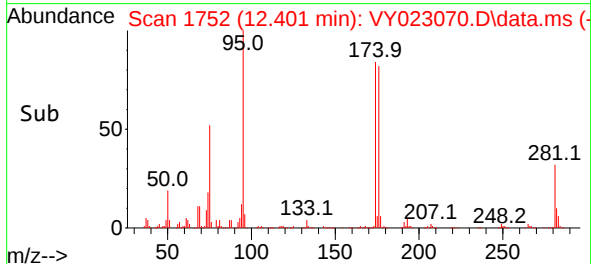
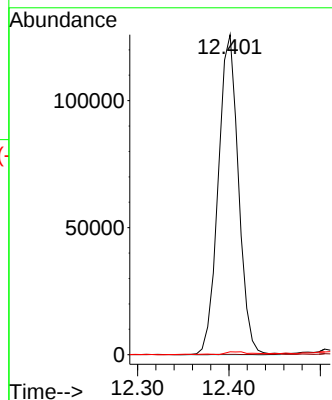
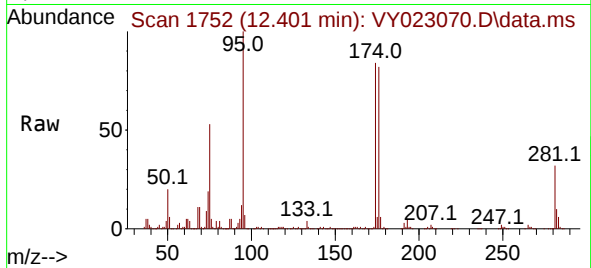




#81
trans-1,4-Dichloro-2-butene
Concen: 143.436 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

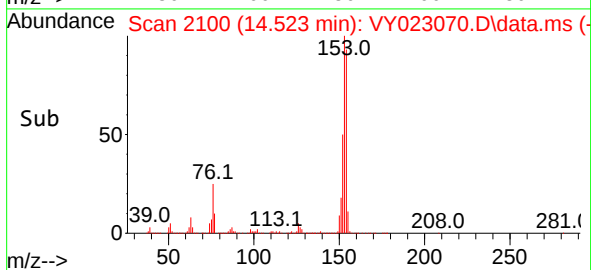
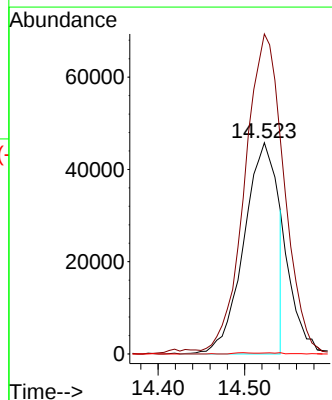
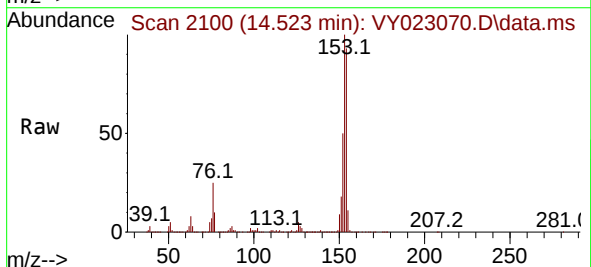
Instrument :
MSVOA_Y
ClientSampleId :
11M-E

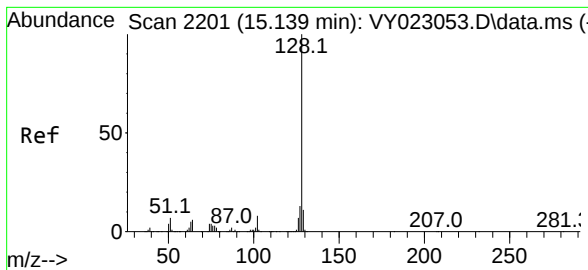
Tgt Ion: 75 Resp: 193841
Ion Ratio Lower Upper
75 100
53 0.2 70.8 106.2#
89 1.1 38.1 57.1#



#92
1,2-Dibromo-3-Chloropropane
Concen: 194.758 ug/l
RT: 14.523 min Scan# 2100
Delta R.T. 0.256 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Tgt Ion: 75 Resp: 123867
Ion Ratio Lower Upper
75 100
155 145.8 43.9 131.6#
157 0.1 57.2 171.6#





#95
Naphthalene
Concen: 436.257 ug/l
RT: 15.138 min Scan# 21
Delta R.T. -0.000 min
Lab File: VY023070.D
Acq: 13 Aug 2025 15:19

Instrument :
MSVOA_Y
ClientSampleId :
11M-E

Tgt Ion:128 Resp: 4342336
Ion Ratio Lower Upper
128 100
127 13.1 10.4 15.6
129 11.3 9.0 13.4

