

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY062025\
 Data File : VY022767.D
 Acq On : 20 Jun 2025 16:42
 Operator : SY/MD
 Sample : Q2380-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Jun 21 02:42:00 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 10 15:26:14 2025
 Response via : Initial Calibration

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

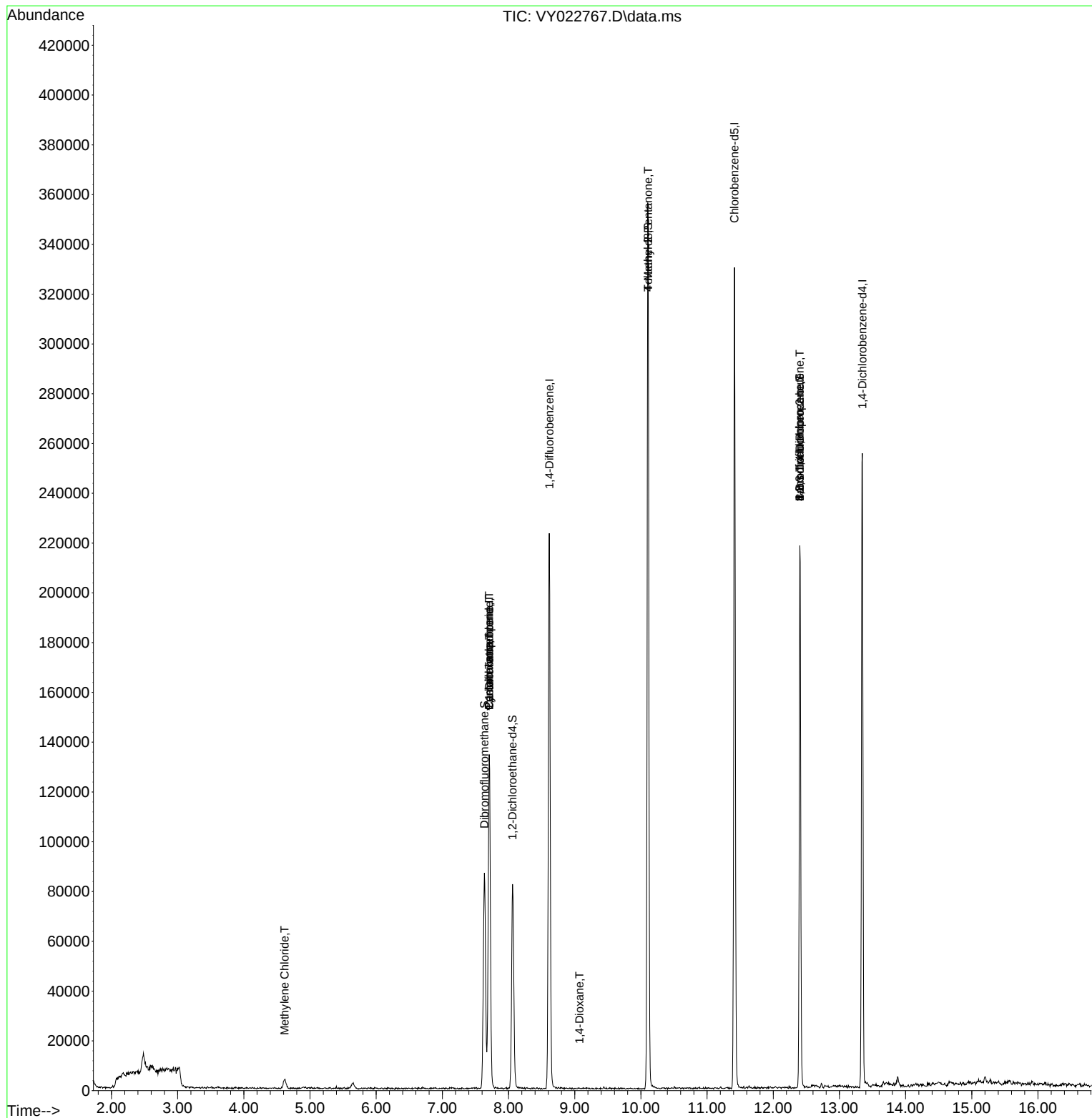
Internal Standards						
1) Pentafluorobenzene	7.707	168	99123	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	183950	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	159048	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	59131	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	63013	56.838	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 113.680%	
35) Dibromofluoromethane	7.634	113	59304	54.013	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 108.020%	
50) Toluene-d8	10.109	98	228063	51.407	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 102.820%	
62) 4-Bromofluorobenzene	12.402	95	58759	44.452	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	= 88.900%	
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.616	84	2501	1.956	ug/l #	73
31) Cyclohexane	7.707	56	3069	1.441	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	9117	5.116	ug/l #	49
38) Carbon Tetrachloride	7.707	117	10624	5.812	ug/l #	21
49) 1,4-Dioxane	9.073	88	18	2.171	ug/l #	1
51) 4-Methyl-2-Pentanone	10.109	43	1160	1.356	ug/l #	1
71) Bromoform	12.402	173	788	1.249	ug/l #	29
76) 1,2,3-Trichloropropane	12.402	75	34825	51.480	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	34825	124.320	ug/l #	10

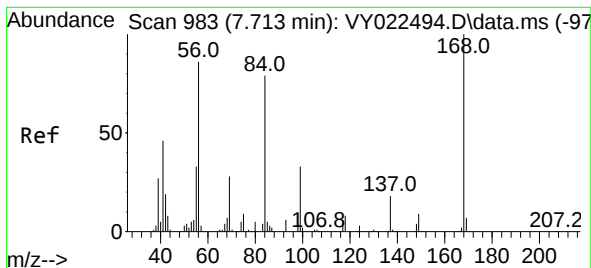
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 99

Delta R.T. -0.006 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

Instrument :

MSVOA_Y

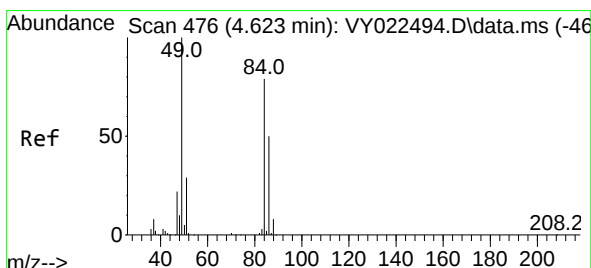
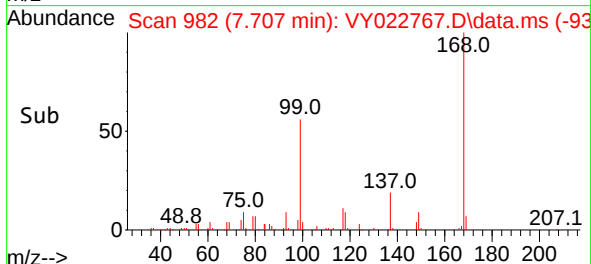
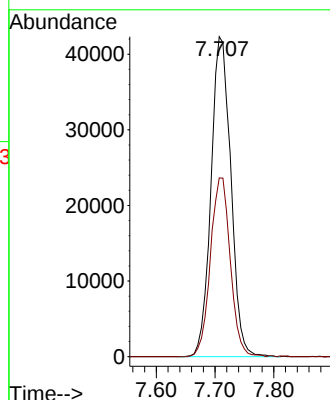
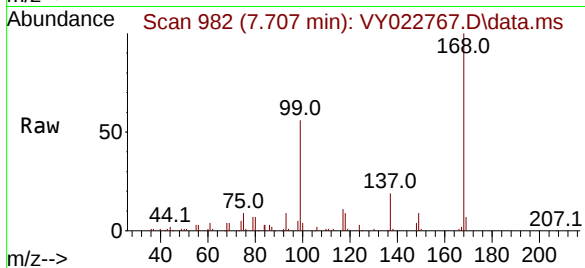
ClientSampleId :

Tgt Ion:168 Resp: 99123

Ion Ratio Lower Upper

168 100

99 55.9 44.3 66.5



#20

Methylene Chloride

Concen: 1.956 ug/l

RT: 4.616 min Scan# 475

Delta R.T. -0.006 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

Tgt Ion: 84 Resp: 2501

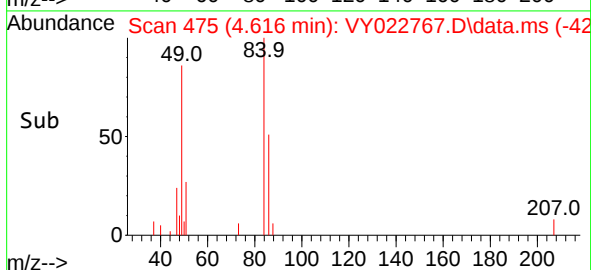
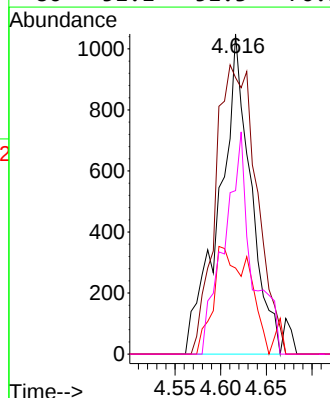
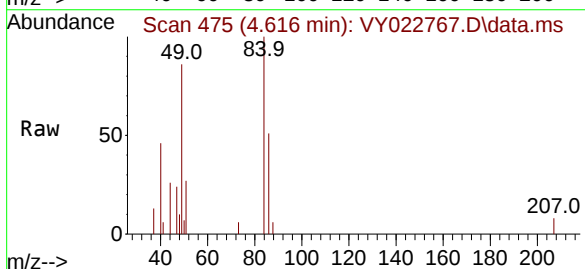
Ion Ratio Lower Upper

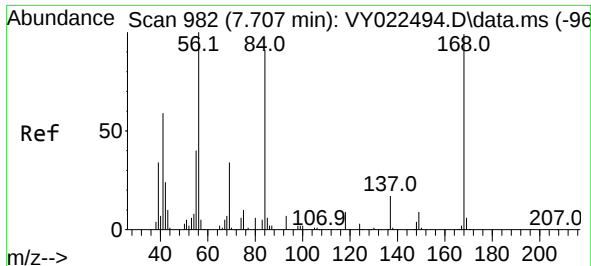
84 100

49 86.4 101.9 152.9#

51 26.9 29.8 44.8#

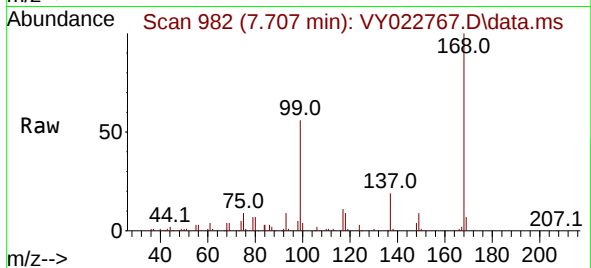
86 51.1 51.3 76.9#



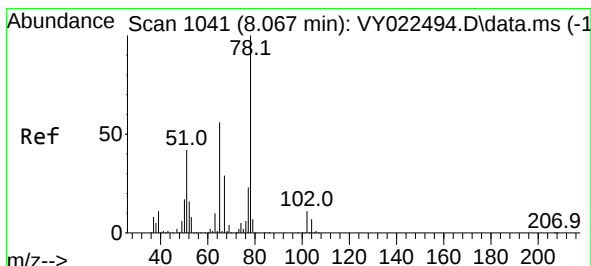
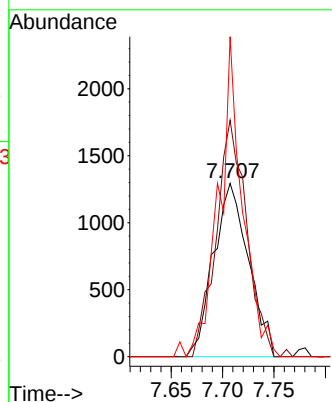
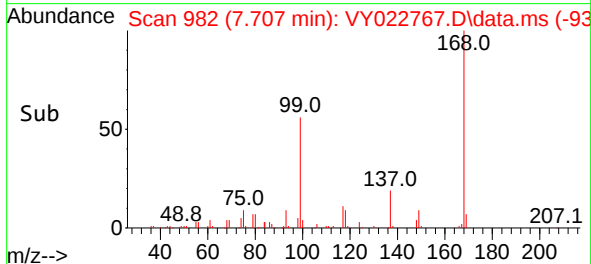


#31
Cyclohexane
Concen: 1.441 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

Instrument :
MSVOA_Y
ClientSampleId :

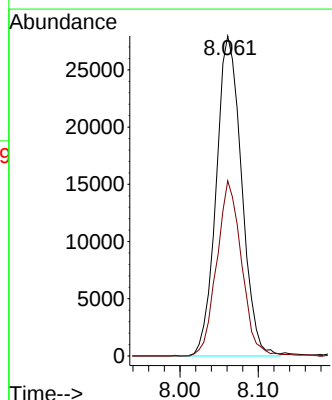
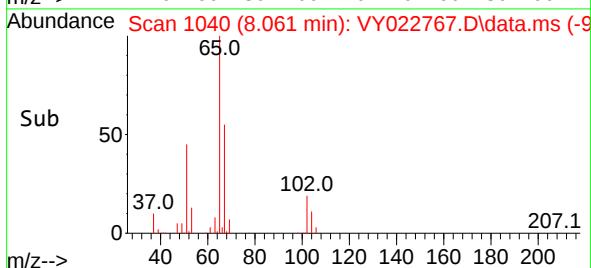
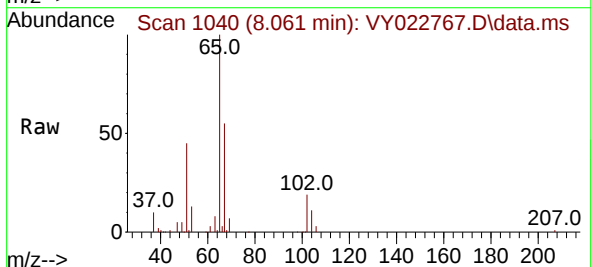


Tgt Ion: 56 Resp: 3069
Ion Ratio Lower Upper
56 100
69 136.4 27.0 40.6#
84 184.6 72.6 109.0#



#33
1,2-Dichloroethane-d4
Concen: 56.838 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

Tgt Ion: 65 Resp: 63013
Ion Ratio Lower Upper
65 100
67 53.5 0.0 103.4

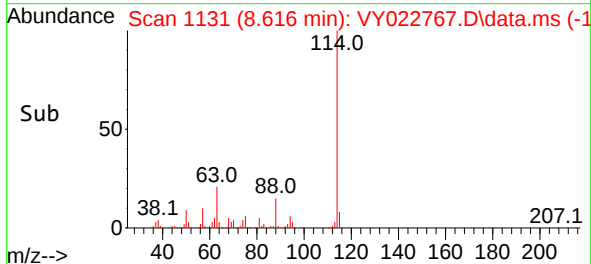
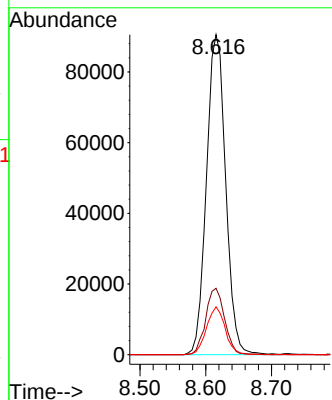
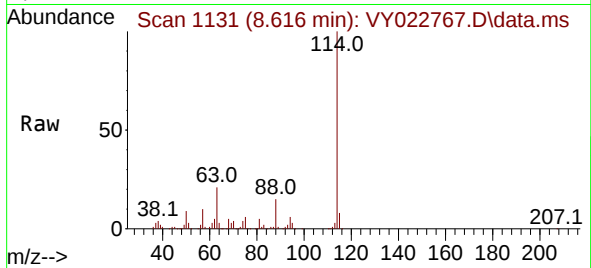




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

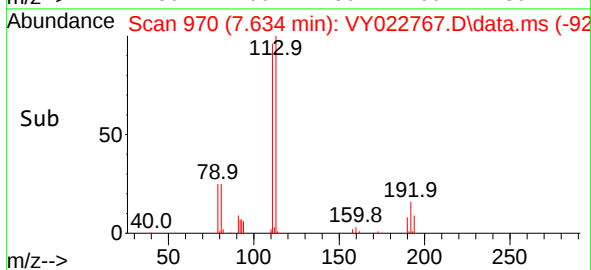
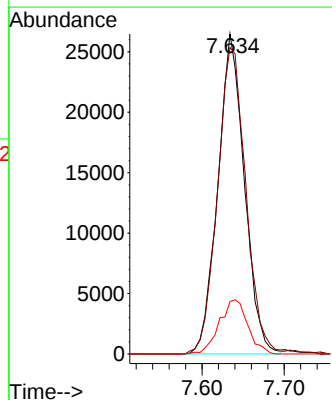
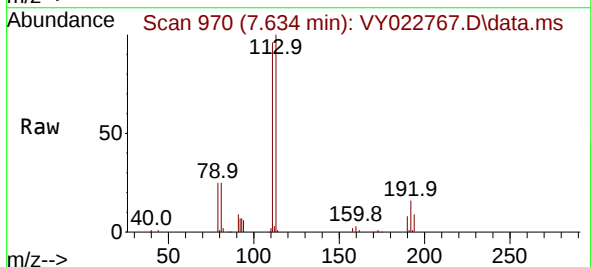
Instrument :
MSVOA_Y
ClientSampleId :

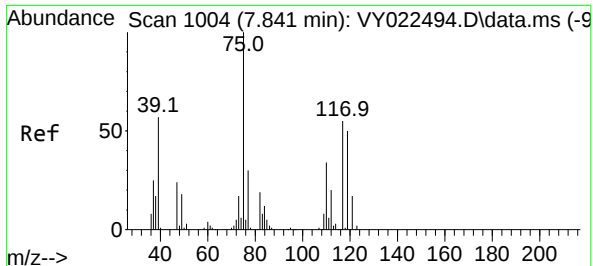
Tgt Ion:114 Resp: 183950
Ion Ratio Lower Upper
114 100
63 20.8 0.0 40.8
88 14.9 0.0 27.8



#35
Dibromofluoromethane
Concen: 54.013 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.006 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

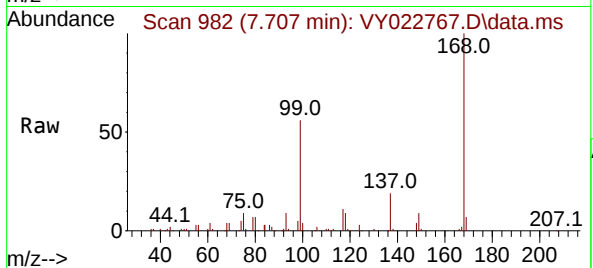
Tgt Ion:113 Resp: 59304
Ion Ratio Lower Upper
113 100
111 102.9 81.1 121.7
192 18.1 14.2 21.2



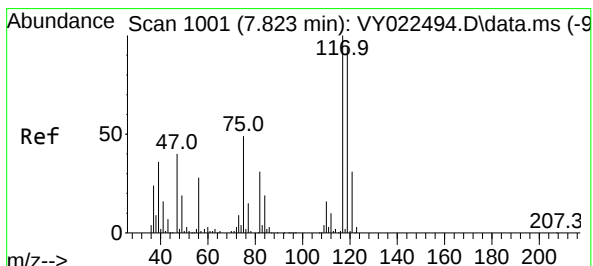
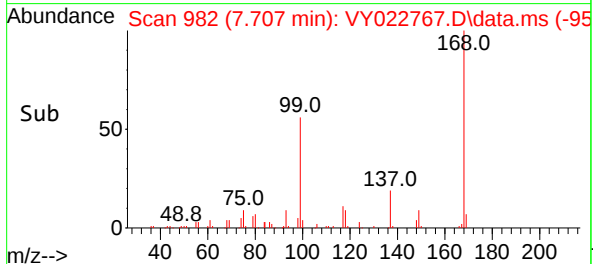
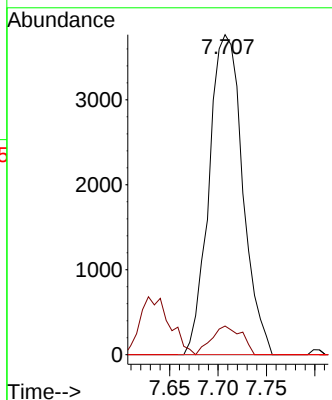


#36
1,1-Dichloropropene
Concen: 5.116 ug/l
RT: 7.707 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

Instrument :
MSVOA_Y
ClientSampleId :

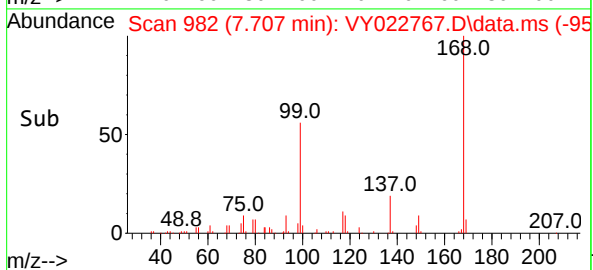
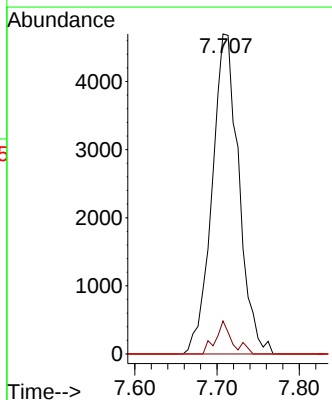
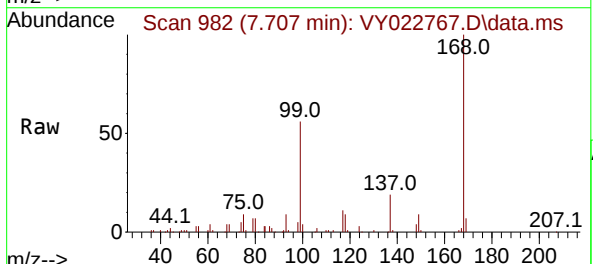


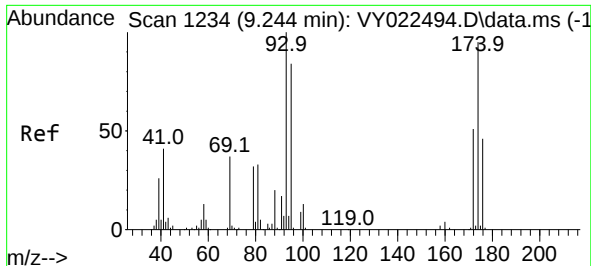
Tgt Ion: 75 Resp: 9117
Ion Ratio Lower Upper
75 100
110 8.0 16.9 50.7#
77 0.0 24.8 37.2#



#38
Carbon Tetrachloride
Concen: 5.812 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.116 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

Tgt Ion: 117 Resp: 10624
Ion Ratio Lower Upper
117 100
119 10.3 75.0 112.6#
121 0.0 25.0 37.4#





#49

1,4-Dioxane

Concen: 2.171 ug/l

RT: 9.073 min Scan# 11

Delta R.T. -0.171 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

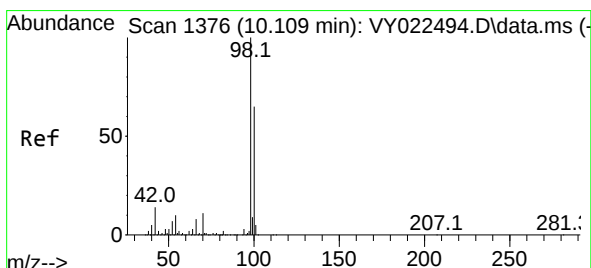
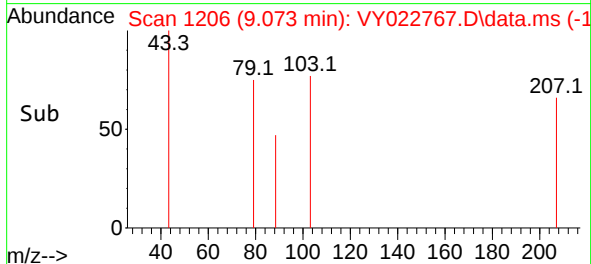
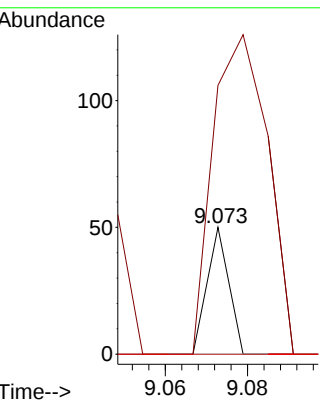
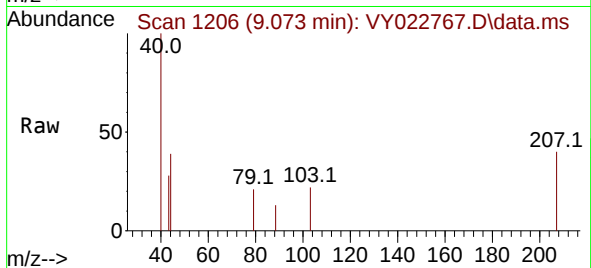
Tgt Ion: 88 Resp: 18

Ion Ratio Lower Upper

88 100

43 644.4 25.4 38.2#

58 0.0 54.9 82.3#



#50

Toluene-d8

Concen: 51.407 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY022767.D

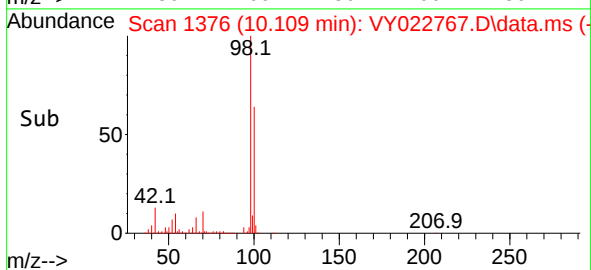
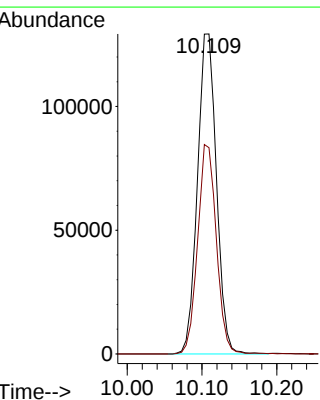
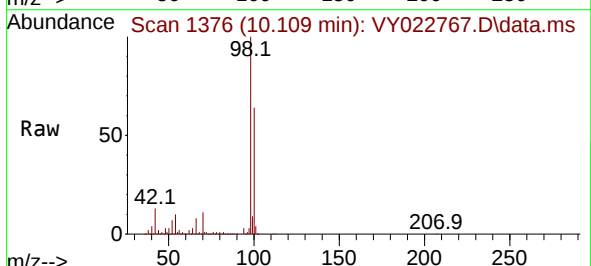
Acq: 20 Jun 2025 16:42

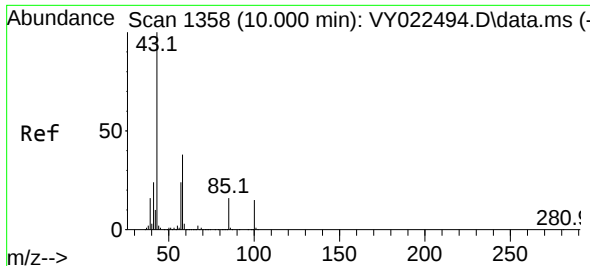
Tgt Ion: 98 Resp: 228063

Ion Ratio Lower Upper

98 100

100 64.7 51.4 77.0

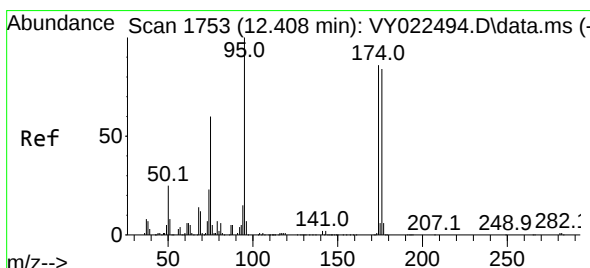
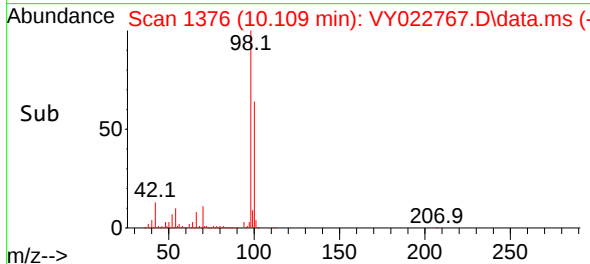
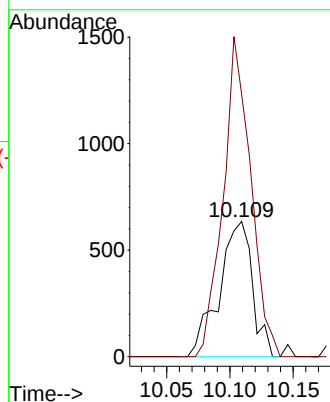
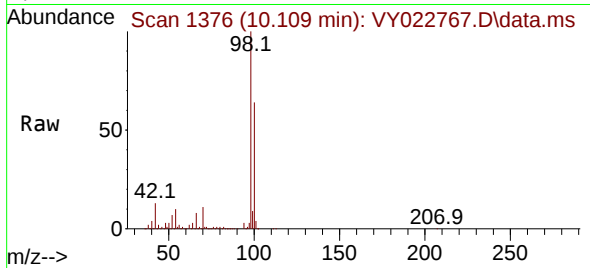




#51
4-Methyl-2-Pentanone
Concen: 1.356 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.110 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

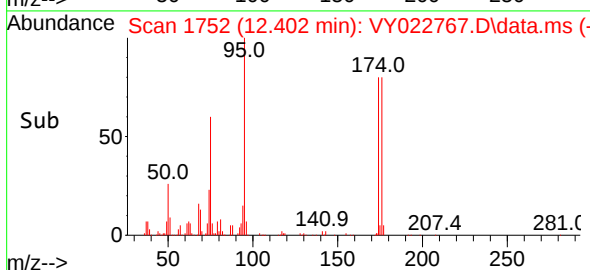
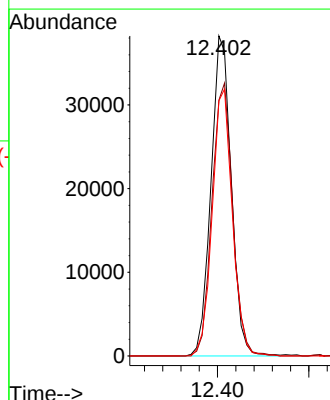
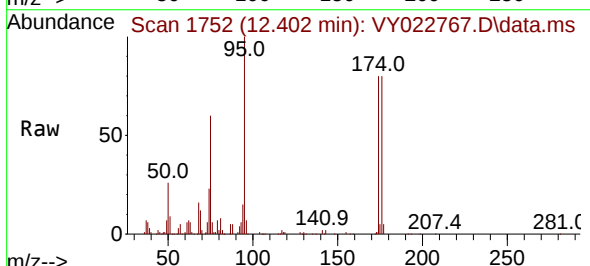
Instrument :
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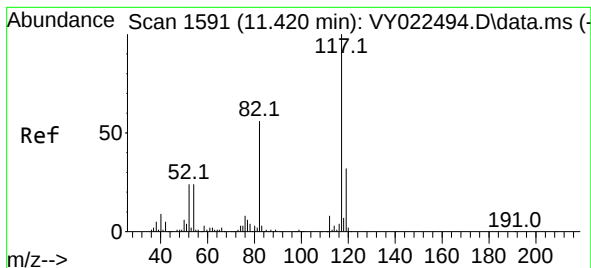
Tgt Ion: 43 Resp: 1160
Ion Ratio Lower Upper
43 100
58 197.0 30.4 45.6#



#62
4-Bromofluorobenzene
Concen: 44.452 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022767.D
Acq: 20 Jun 2025 16:42

Tgt Ion: 95 Resp: 58759
Ion Ratio Lower Upper
95 100
174 87.4 0.0 170.0
176 82.8 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

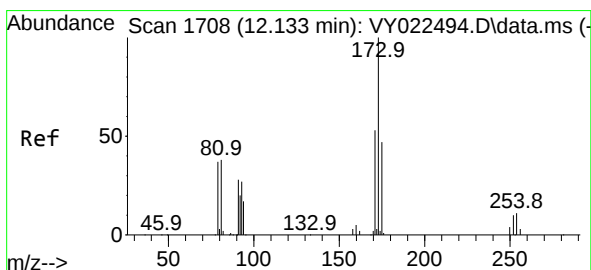
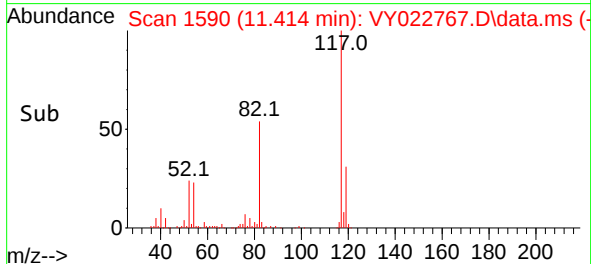
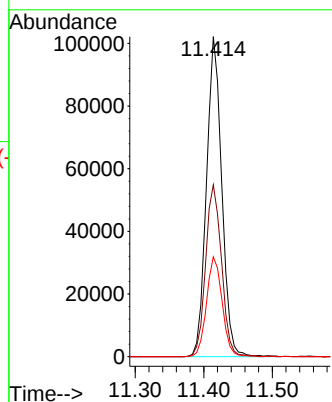
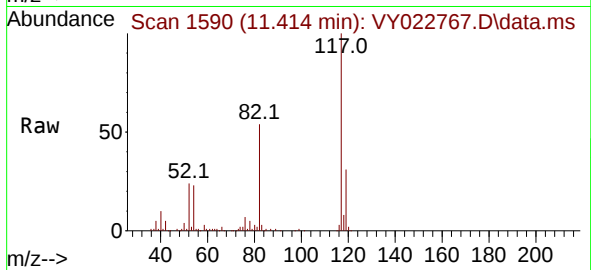
Tgt Ion:117 Resp: 159048

Ion Ratio Lower Upper

117 100

82 53.7 44.6 66.8

119 31.2 25.4 38.0



#71

Bromoform

Concen: 1.249 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.268 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

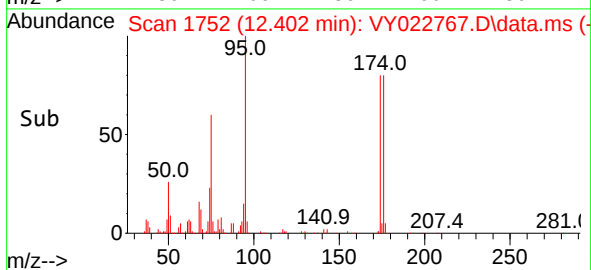
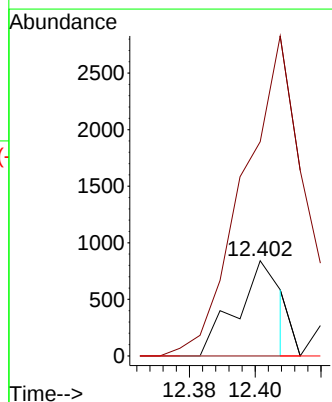
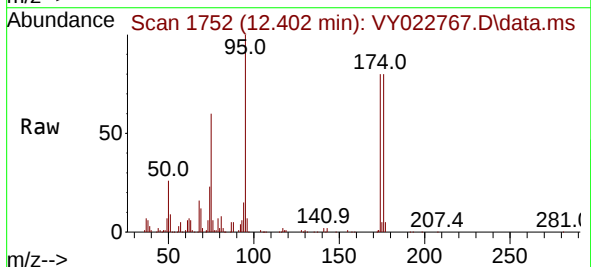
Tgt Ion:173 Resp: 788

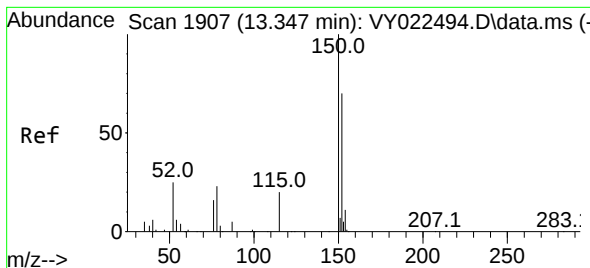
Ion Ratio Lower Upper

173 100

175 0.0 23.8 71.5#

254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY022767.D

Acq: 20 Jun 2025 16:42

Instrument :

MSVOA_Y

ClientSampleId :

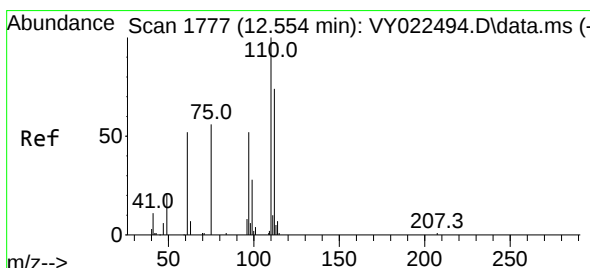
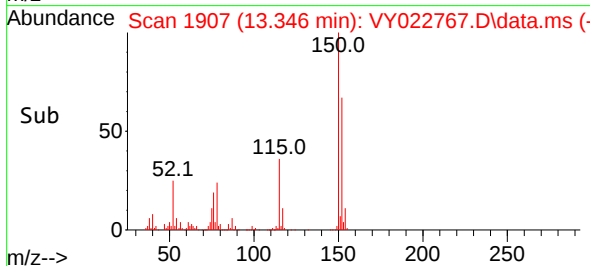
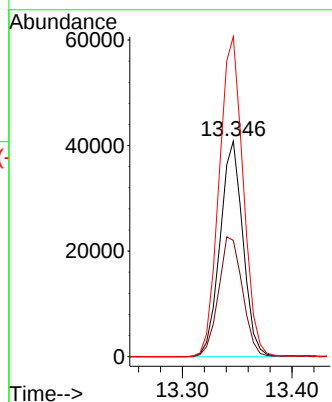
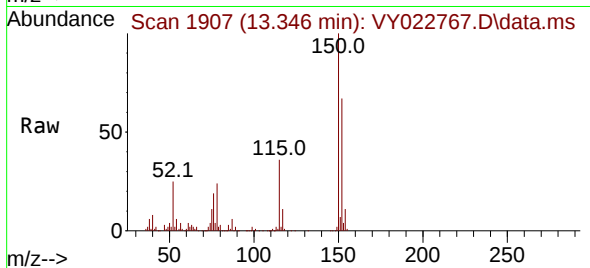
Tgt Ion:152 Resp: 59131

Ion Ratio Lower Upper

152 100

115 58.4 28.9 86.7

150 156.1 0.0 349.6



#76

1,2,3-Trichloropropane

Concen: 51.480 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY022767.D

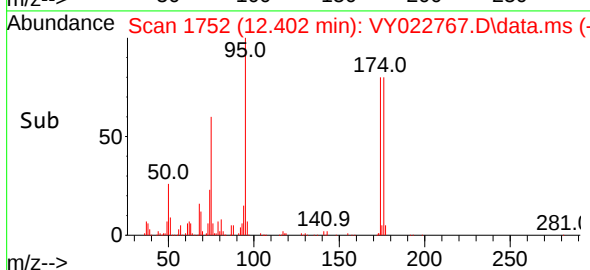
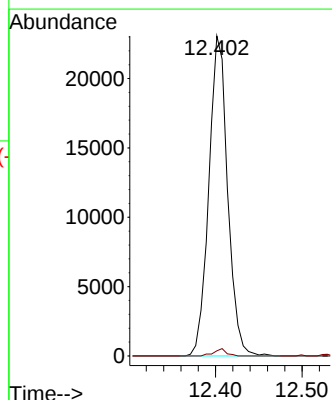
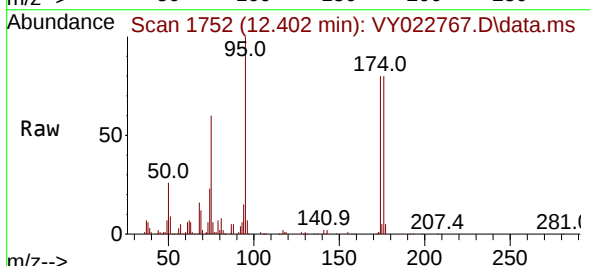
Acq: 20 Jun 2025 16:42

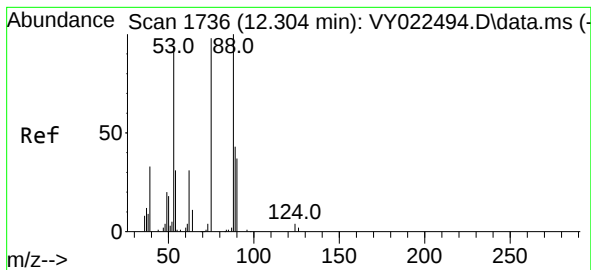
Tgt Ion: 75 Resp: 34825

Ion Ratio Lower Upper

75 100

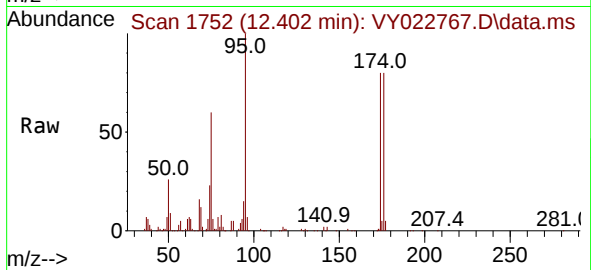
77 1.5 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 124.320 ug/l
 RT: 12.402 min Scan# 11
 Delta R.T. 0.097 min
 Lab File: VY022767.D
 Acq: 20 Jun 2025 16:42

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 34825
 Ion Ratio Lower Upper
 75 100
 53 0.1 78.5 117.7#
 89 0.0 35.7 53.5#

