

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY031325\
 Data File : VY021526.D
 Acq On : 13 Mar 2025 15:41
 Operator : SY/MD
 Sample : Q1549-01RE
 Misc : 5.10g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-11978RE

Quant Time: Mar 14 14:56:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y030425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 05 12:42:45 2025
 Response via : Initial Calibration

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

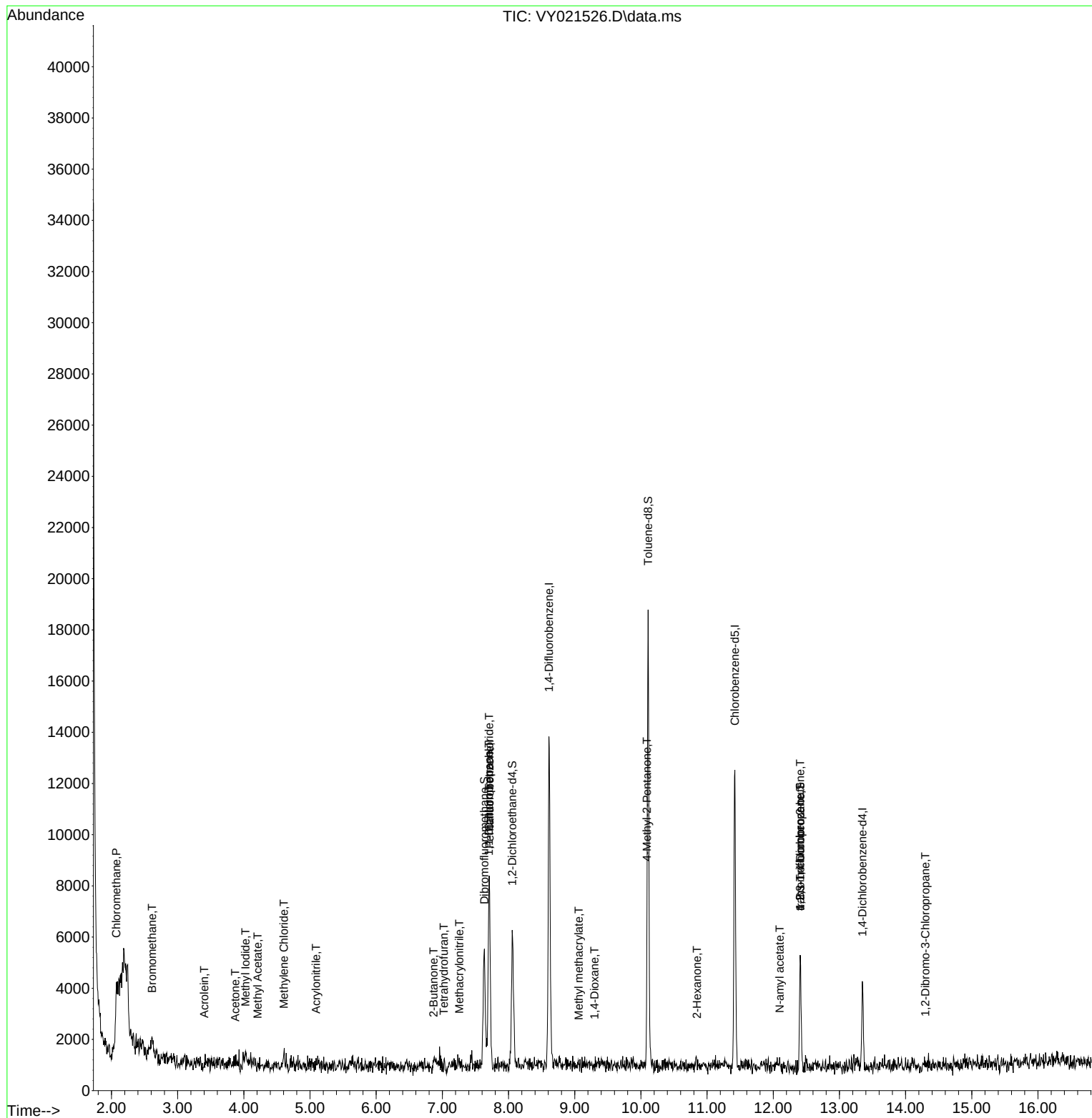
Internal Standards						
1) Pentafluorobenzene	7.713	168	5914	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	10374	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.420	117	6275	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	885	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.055	65	4074	65.176	ug/l	-0.01
Spiked Amount 50.000	Range 50 - 163		Recovery = 130.360%			
35) Dibromofluoromethane	7.634	113	3093	45.359	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 90.720%			
50) Toluene-d8	10.109	98	11010	42.643	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 85.280%			
62) 4-Bromofluorobenzene	12.408	95	1400	15.941	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 31.880%			
Target Compounds						Qvalue
3) Chloromethane	2.074	50	395	5.162	ug/l	# 72
5) Bromomethane	2.611	94	364	6.023	ug/l	# 63
10) Methyl Iodide	4.025	142	739	10.911	ug/l	# 65
11) Tert butyl alcohol	4.836	59	50	Below Cal	#	72
13) Acrolein	3.403	56	29	9.121	ug/l	# 10
15) Acrylonitrile	5.092	53	62	4.503	ug/l	# 17
16) Acetone	3.873	43	52	3.814	ug/l	# 47
18) Methyl Acetate	4.208	43	31	1.025	ug/l	# 51
20) Methylene Chloride	4.604	84	202	2.823	ug/l	# 30
25) 2-Butanone	6.866	43	45	2.386	ug/l	# 48
29) Tetrahydrofuran	7.024	42	19	1.632	ug/l	# 33
36) 1,1-Dichloropropene	7.701	75	660	6.183	ug/l	# 41
38) Carbon Tetrachloride	7.707	117	667	5.433	ug/l	# 12
41) Methacrylonitrile	7.256	41	48	1.869	ug/l	# 1
48) Methyl methacrylate	9.061	41	46	1.094	ug/l	# 13
49) 1,4-Dioxane	9.298	88	19	46.490	ug/l	# 22
51) 4-Methyl-2-Pentanone	10.091	43	149	3.153	ug/l	# 58
59) 2-Hexanone	10.847	43	71	2.272	ug/l	# 24
74) N-amyl acetate	12.097	43	79	5.218	ug/l	# 47
76) 1,2,3-Trichloropropane	12.408	75	803	90.043	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.408	75	803	204.695	ug/l	# 9
92) 1,2-Dibromo-3-Chloropr...	14.297	75	27	14.652	ug/l	# 1

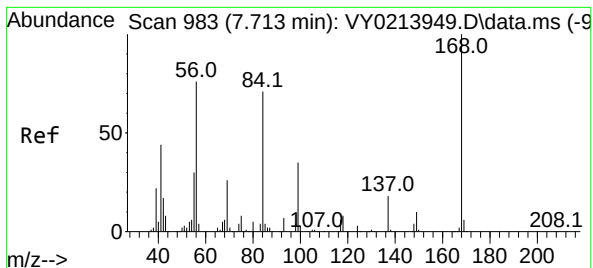
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Mar 05 12:42:45 2025
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.713 min Scan# 9

Delta R.T. 0.000 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

Instrument :

MSVOA_Y

ClientSampleId :

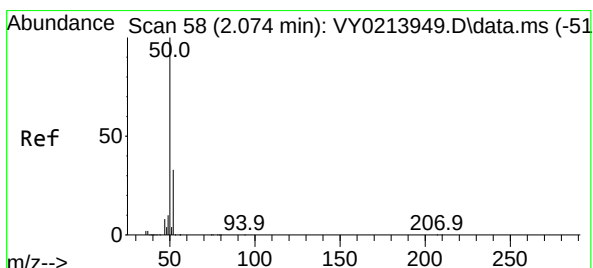
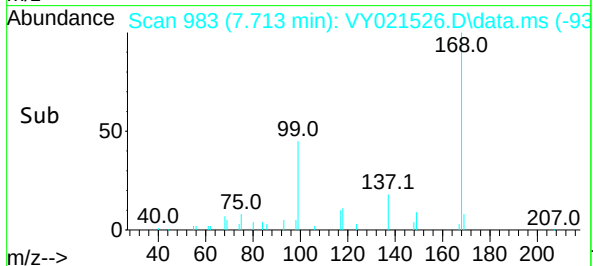
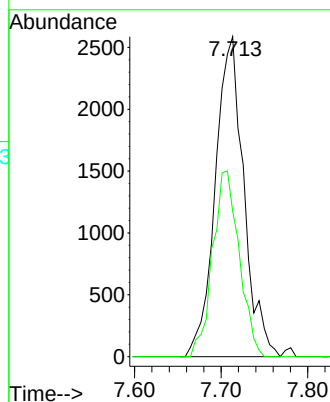
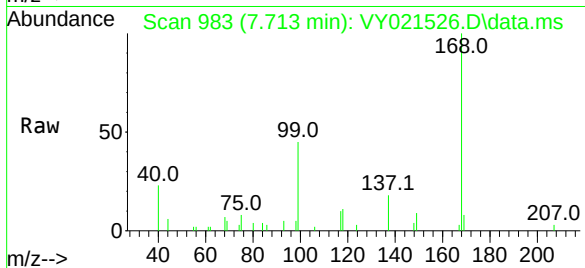
72-11978RE

Tgt Ion:168 Resp: 5914

Ion Ratio Lower Upper

168 100

99 45.4 46.0 69.0#



#3

Chloromethane

Concen: 5.162 ug/l

RT: 2.074 min Scan# 58

Delta R.T. 0.000 min

Lab File: VY021526.D

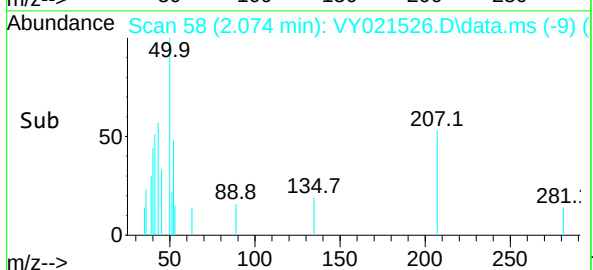
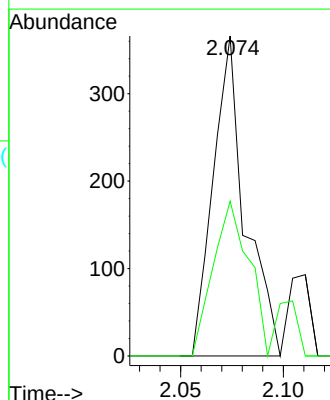
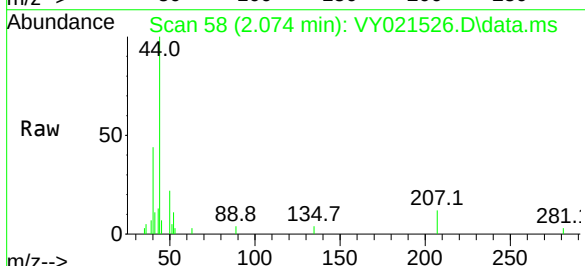
Acq: 13 Mar 2025 15:41

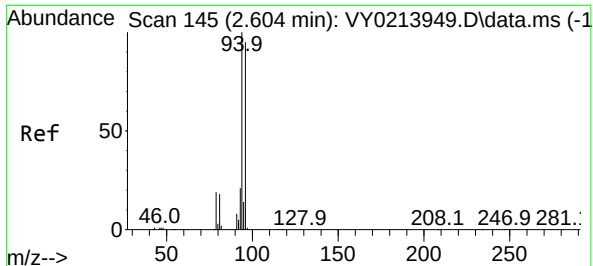
Tgt Ion: 50 Resp: 395

Ion Ratio Lower Upper

50 100

52 48.4 26.2 39.2#

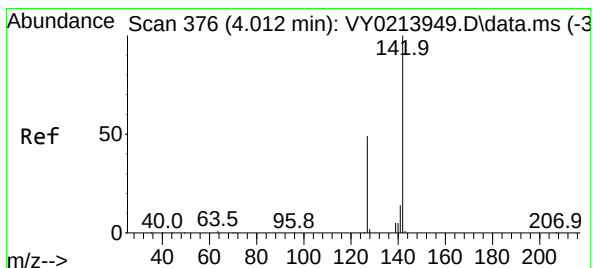
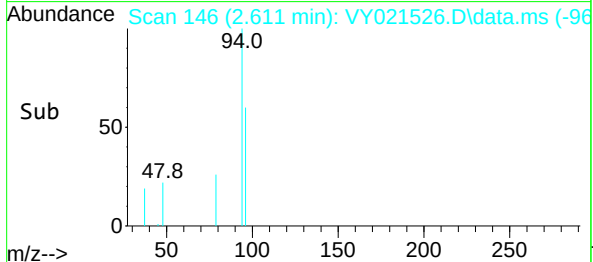
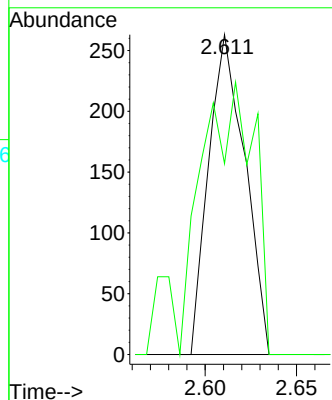
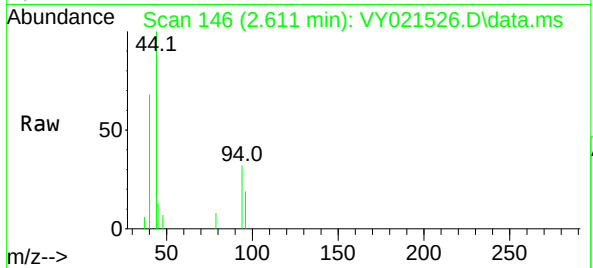




#5
Bromomethane
Concen: 6.023 ug/l
RT: 2.611 min Scan# 145
Delta R.T. 0.006 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

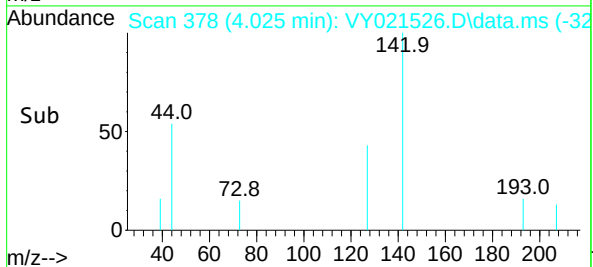
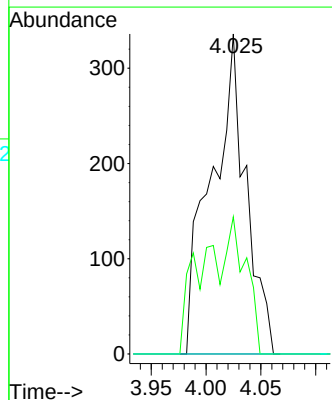
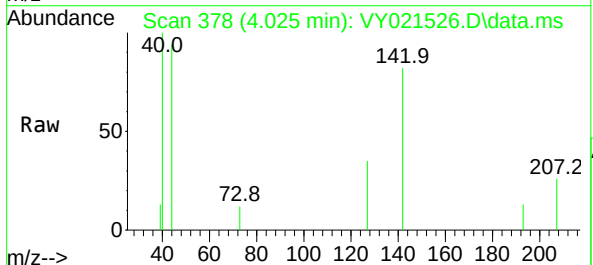
Instrument :
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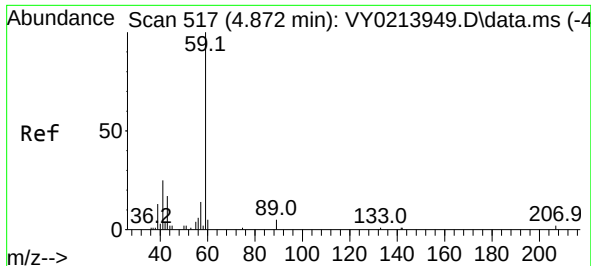
Tgt Ion: 94 Resp: 364
Ion Ratio Lower Upper
94 100
96 59.7 76.3 114.5#



#10
Methyl Iodide
Concen: 10.911 ug/l
RT: 4.025 min Scan# 378
Delta R.T. 0.012 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 142 Resp: 739
Ion Ratio Lower Upper
142 100
127 25.2 39.1 58.7#
141 0.0 11.8 17.6#

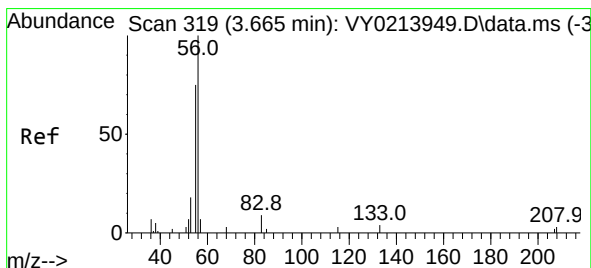
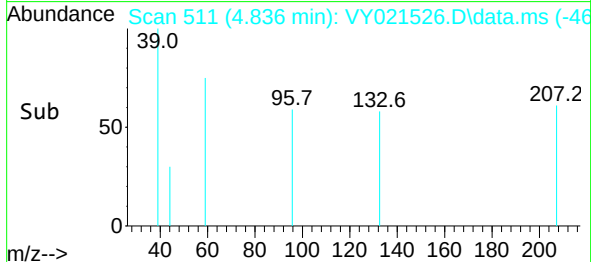
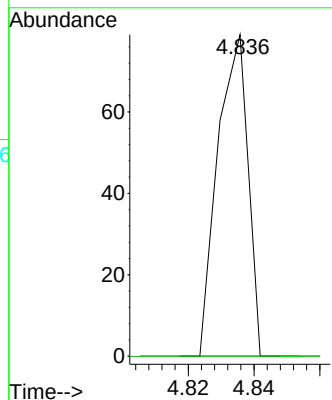
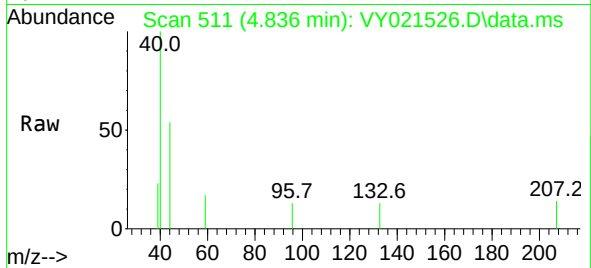




#11
Tert butyl alcohol
Concen: Below Cal
RT: 4.836 min Scan# 51
Delta R.T. -0.036 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

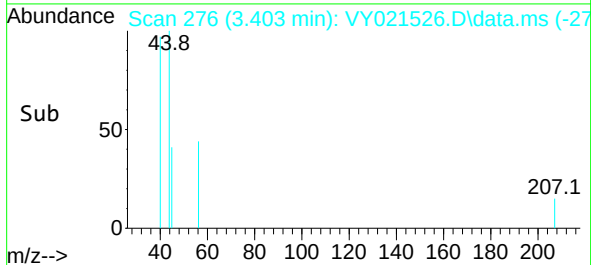
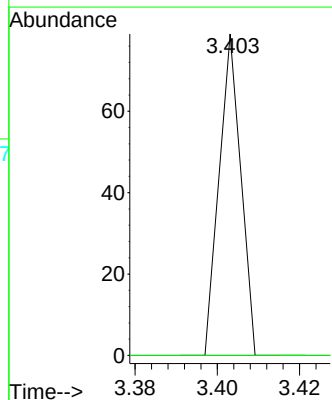
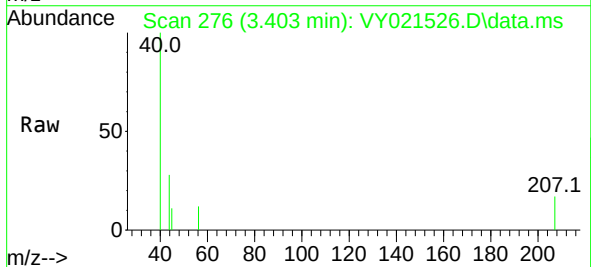
Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

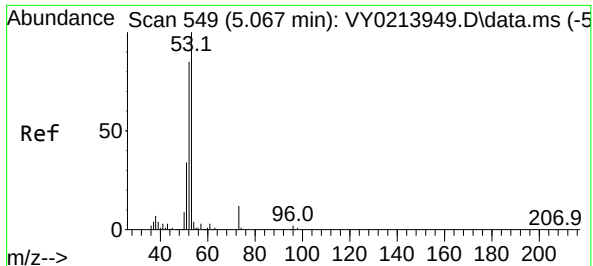
Tgt Ion: 59 Resp: 50
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#



#13
Acrolein
Concen: 9.121 ug/l
RT: 3.403 min Scan# 276
Delta R.T. -0.262 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 56 Resp: 29
Ion Ratio Lower Upper
56 100
55 0.0 63.4 95.2#

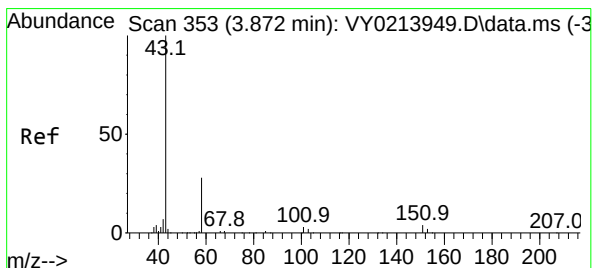
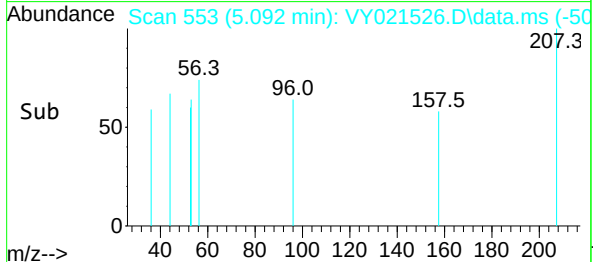
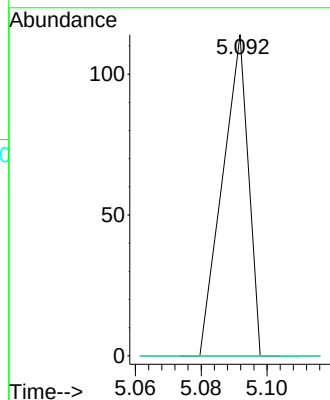
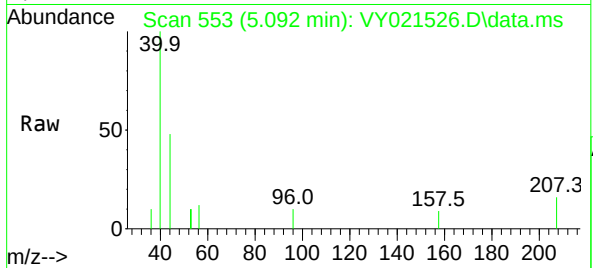




#15
Acrylonitrile
Concen: 4.503 ug/l
RT: 5.092 min Scan# 51
Delta R.T. 0.025 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

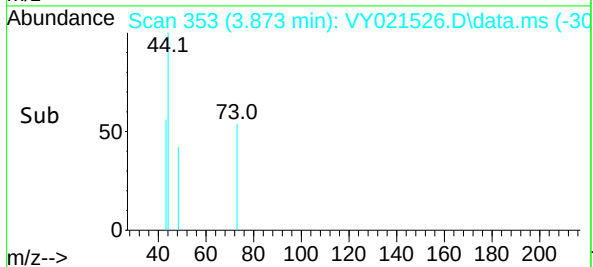
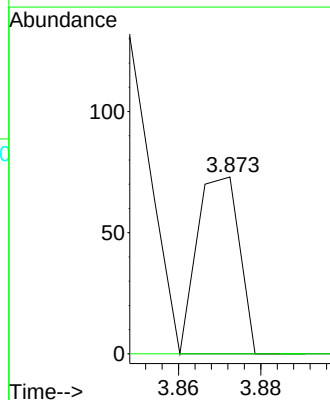
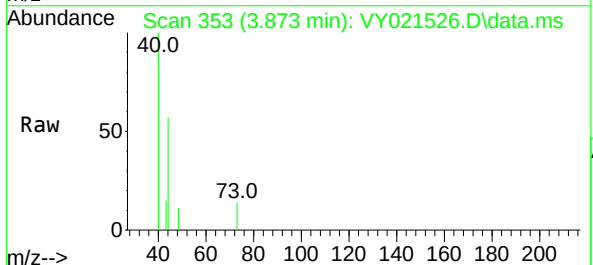
Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

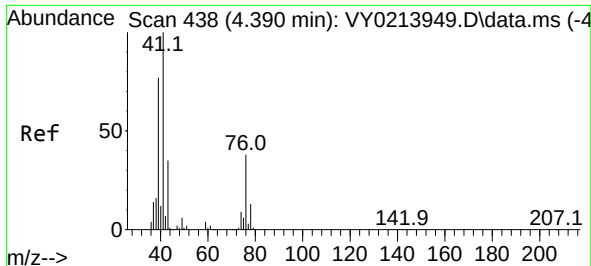
Tgt Ion: 53 Resp: 62
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 3.814 ug/l
RT: 3.873 min Scan# 353
Delta R.T. 0.001 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 43 Resp: 52
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#

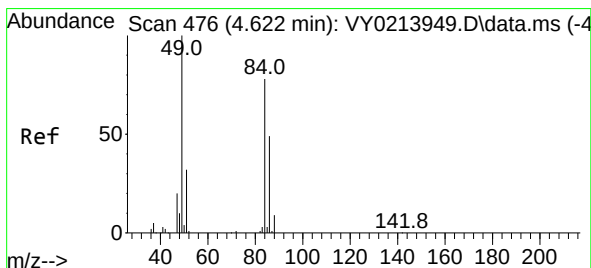
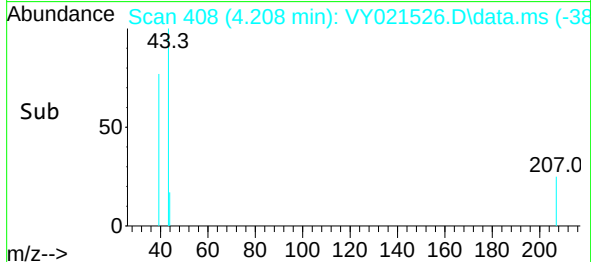
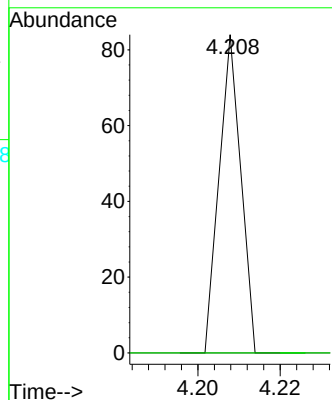
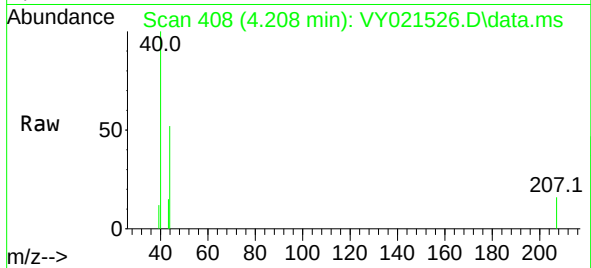




#18
Methyl Acetate
Concen: 1.025 ug/l
RT: 4.208 min Scan# 408
Delta R.T. -0.183 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

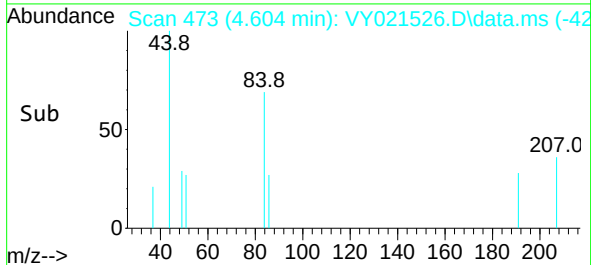
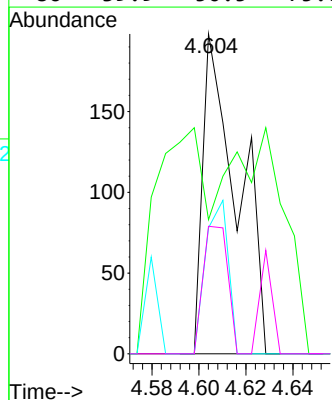
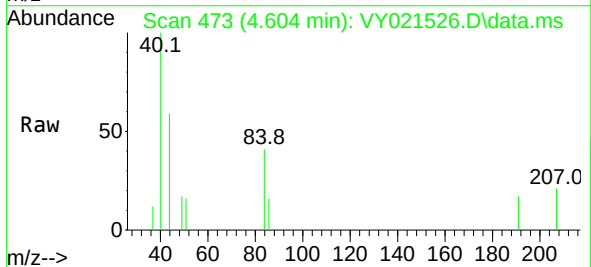
Instrument :
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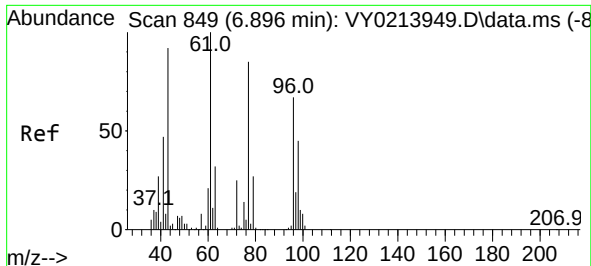
Tgt Ion: 43 Resp: 31
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#20
Methylene Chloride
Concen: 2.823 ug/l
RT: 4.604 min Scan# 473
Delta R.T. -0.018 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 84 Resp: 202
Ion Ratio Lower Upper
84 100
49 0.0 102.0 153.0#
51 39.4 33.0 49.6
86 39.9 50.5 75.7#

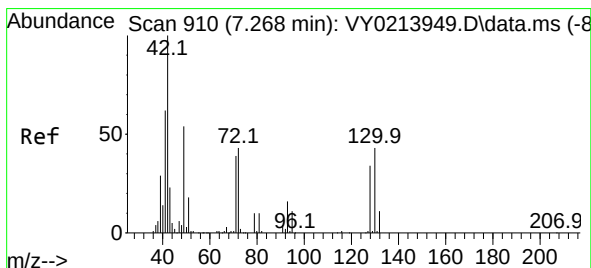
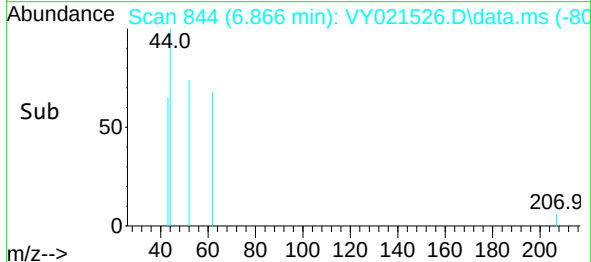
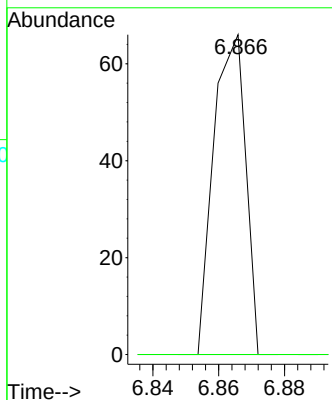
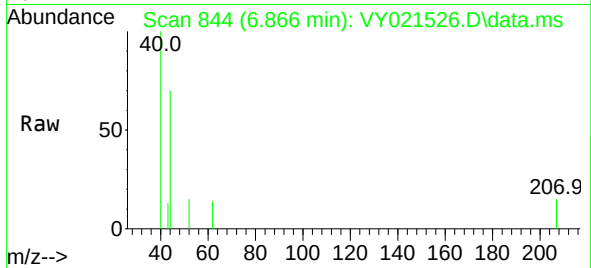




#25
2-Butanone
Concen: 2.386 ug/l
RT: 6.866 min Scan# 84
Delta R.T. -0.030 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

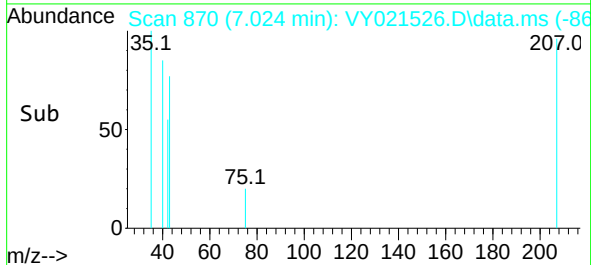
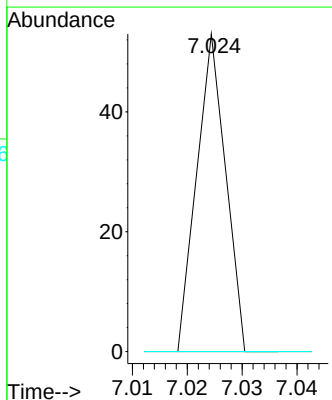
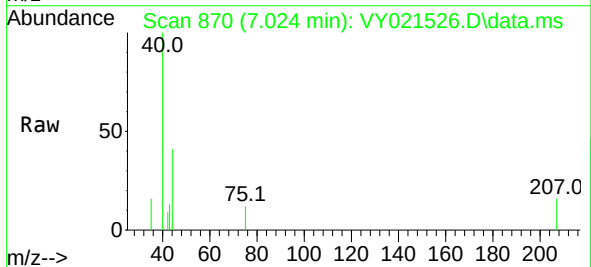
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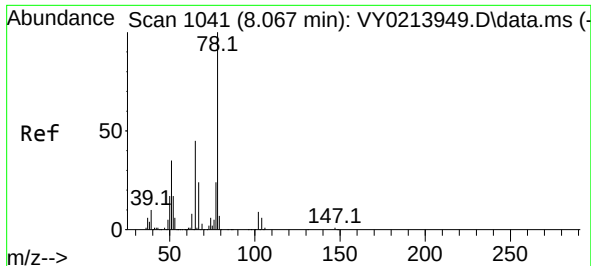
Tgt Ion: 43 Resp: 45
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.0#



#29
Tetrahydrofuran
Concen: 1.632 ug/l
RT: 7.024 min Scan# 870
Delta R.T. -0.244 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 42 Resp: 19
Ion Ratio Lower Upper
42 100
72 0.0 34.8 52.2#
71 0.0 32.6 48.8#





#33

1,2-Dichloroethane-d4

Concen: 65.176 ug/l

RT: 8.055 min Scan# 110

Delta R.T. -0.012 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

Instrument :

MSVOA_Y

ClientSampleId :

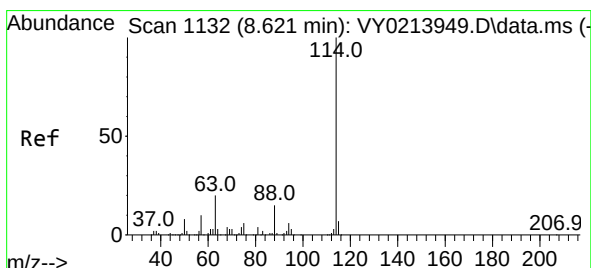
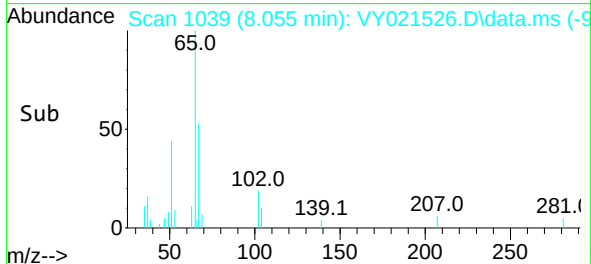
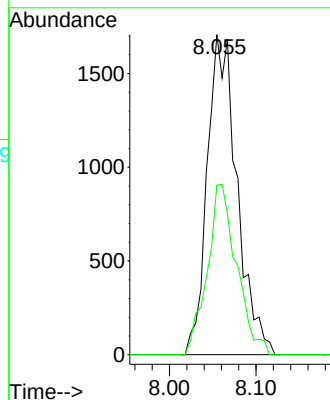
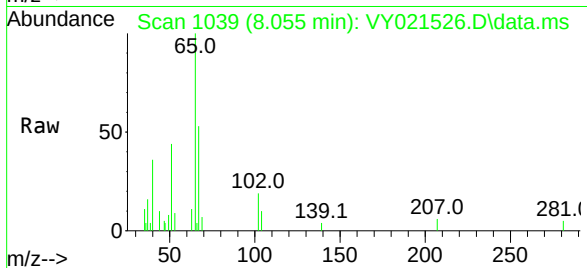
72-11978RE

Tgt Ion: 65 Resp: 4074

Ion Ratio Lower Upper

65 100

67 52.4 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1130

Delta R.T. -0.012 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

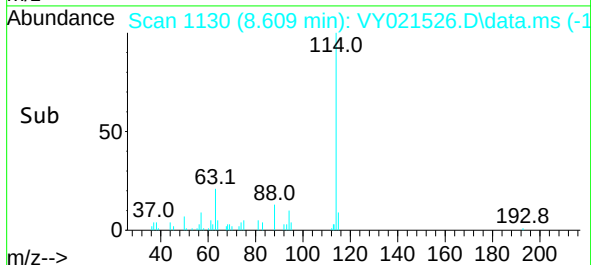
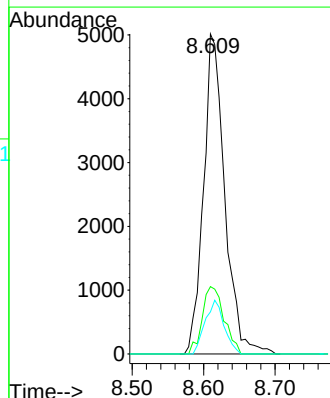
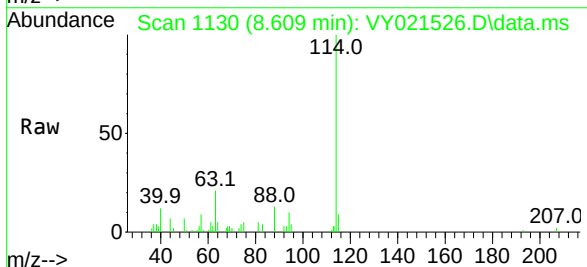
Tgt Ion: 114 Resp: 10374

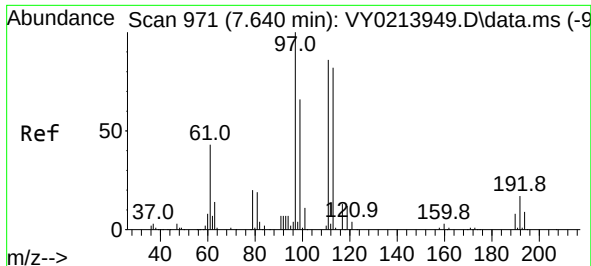
Ion Ratio Lower Upper

114 100

63 21.1 0.0 40.8

88 13.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 45.359 ug/l

RT: 7.634 min Scan# 91

Delta R.T. -0.006 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

Instrument :

MSVOA_Y

ClientSampleId :

72-11978RE

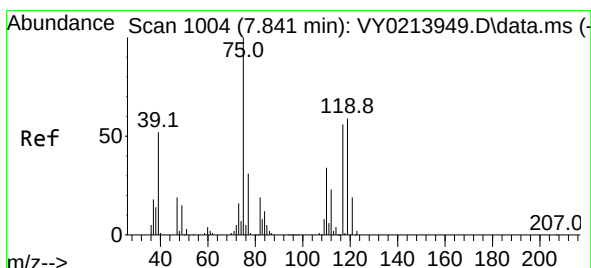
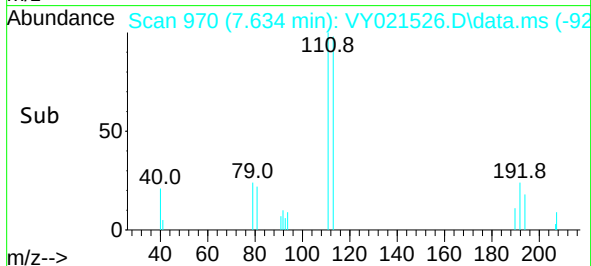
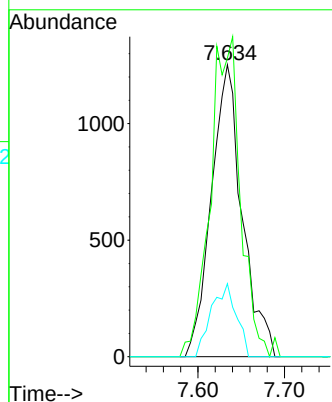
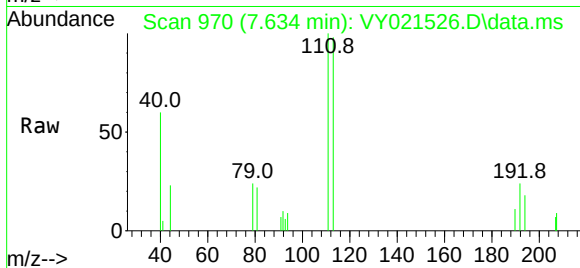
Tgt Ion:113 Resp: 3093

Ion Ratio Lower Upper

113 100

111 106.7 82.0 123.0

192 20.3 15.9 23.9



#36

1,1-Dichloropropene

Concen: 6.183 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.140 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

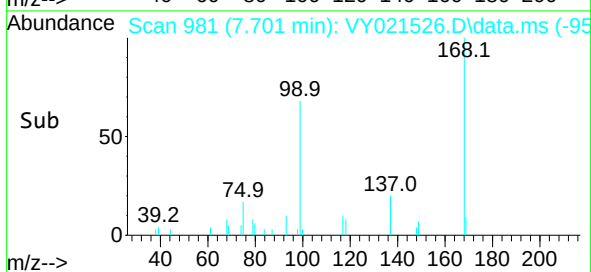
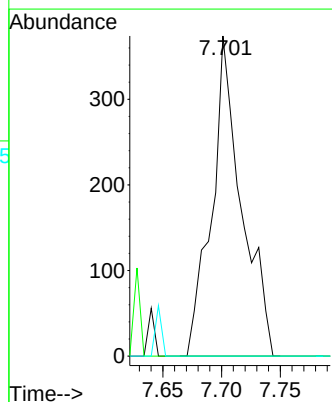
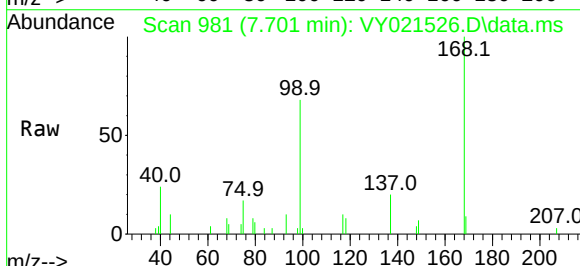
Tgt Ion: 75 Resp: 660

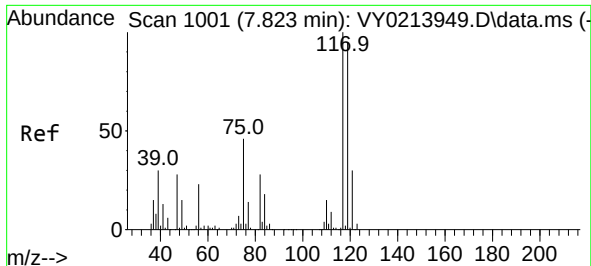
Ion Ratio Lower Upper

75 100

110 0.0 17.3 51.7#

77 0.0 25.4 38.2#

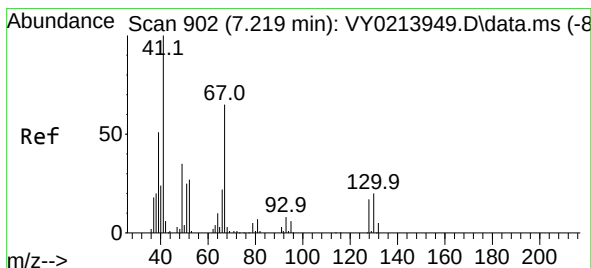
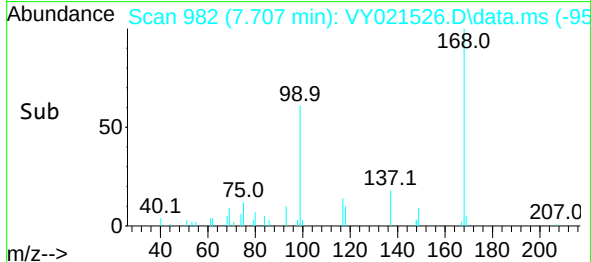
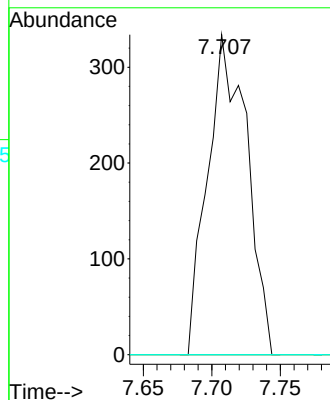
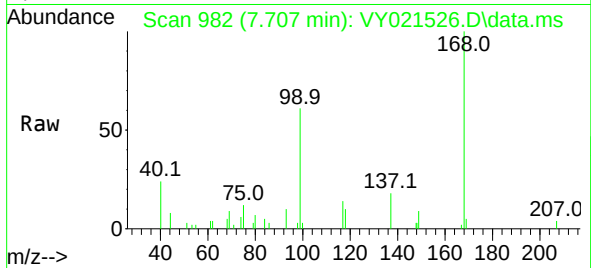




#38
Carbon Tetrachloride
Concen: 5.433 ug/l
RT: 7.707 min Scan# 911
Delta R.T. -0.116 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

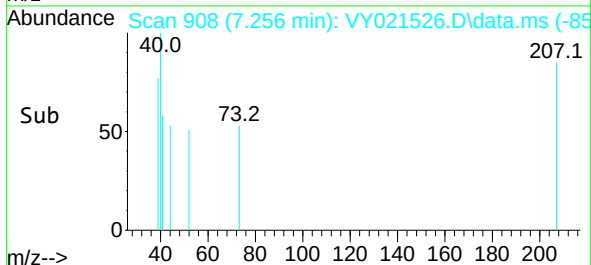
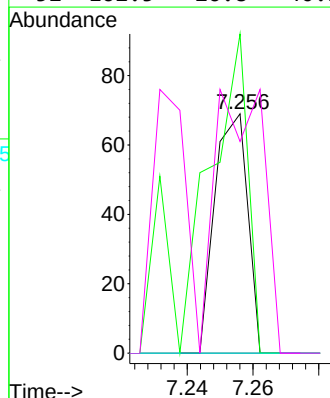
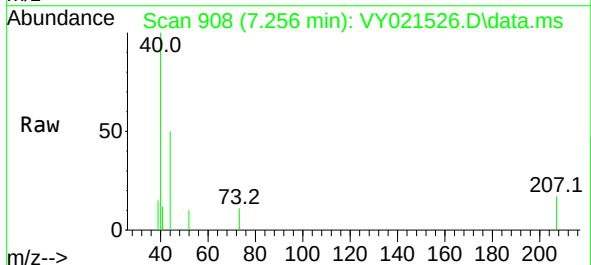
Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

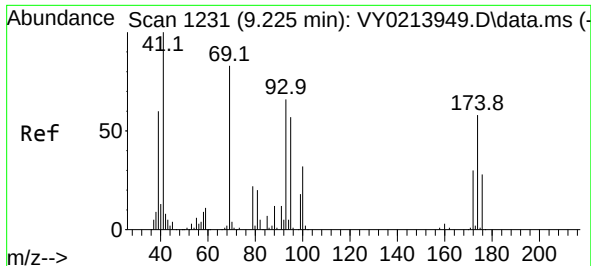
Tgt Ion:117 Resp: 667
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.8#
121 0.0 23.9 35.9#



#41
Methacrylonitrile
Concen: 1.869 ug/l
RT: 7.256 min Scan# 908
Delta R.T. 0.037 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

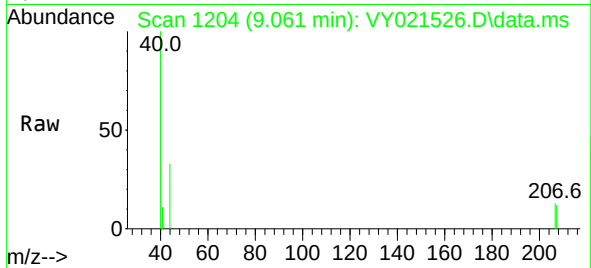
Tgt Ion: 41 Resp: 48
Ion Ratio Lower Upper
41 100
39 189.6 35.0 52.6#
67 0.0 61.2 91.8#
52 162.5 26.8 40.2#



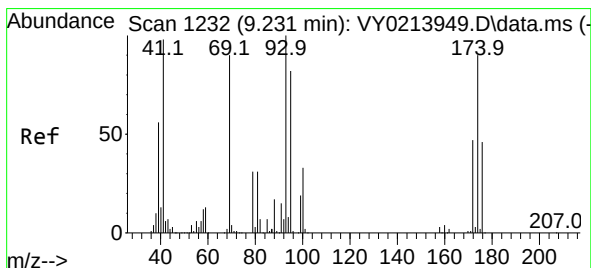
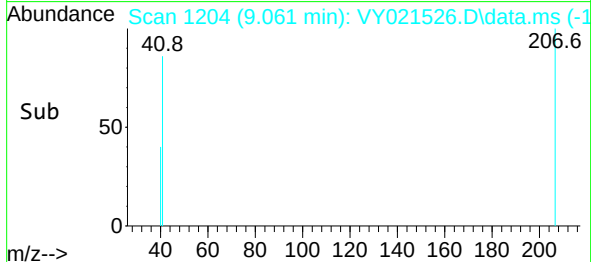
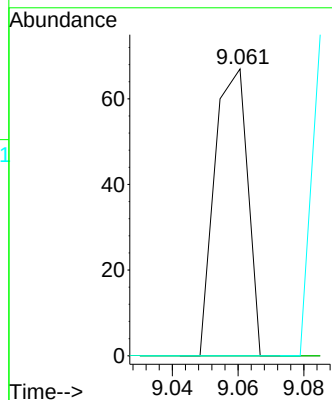


#48
Methyl methacrylate
Concen: 1.094 ug/l
RT: 9.061 min Scan# 11
Delta R.T. -0.164 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

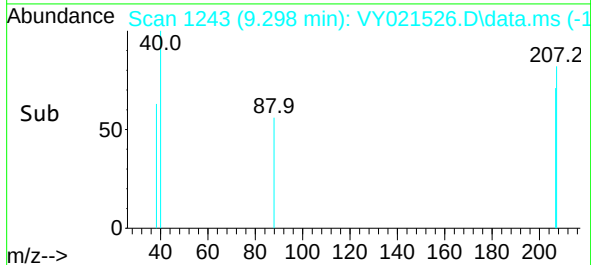
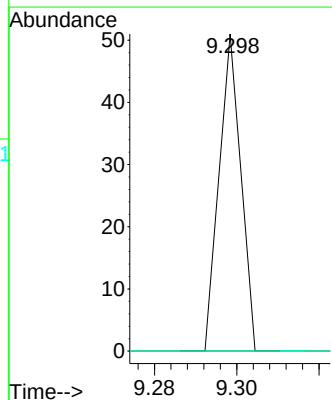
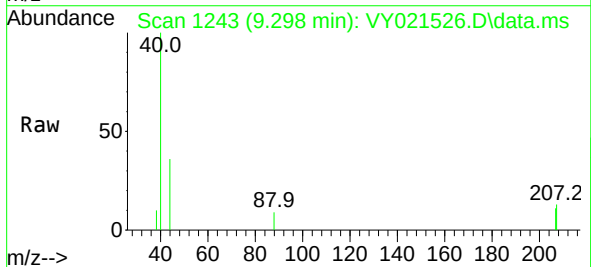


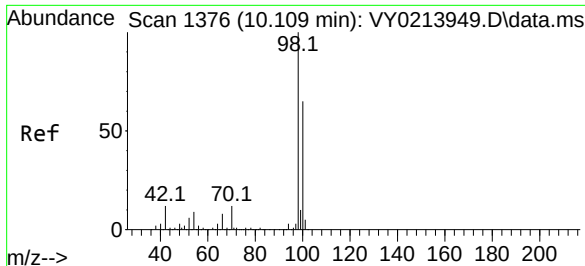
Tgt Ion: 41 Resp: 46
Ion Ratio Lower Upper
41 100
69 0.0 67.8 101.8#
39 0.0 46.4 69.6#



#49
1,4-Dioxane
Concen: 46.490 ug/l
RT: 9.298 min Scan# 1243
Delta R.T. 0.067 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 88 Resp: 19
Ion Ratio Lower Upper
88 100
43 0.0 25.0 37.4#
58 0.0 58.4 87.6#





#50

Toluene-d8

Concen: 42.643 ug/l

RT: 10.109 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

Instrument :

MSVOA_Y

ClientSampleId :

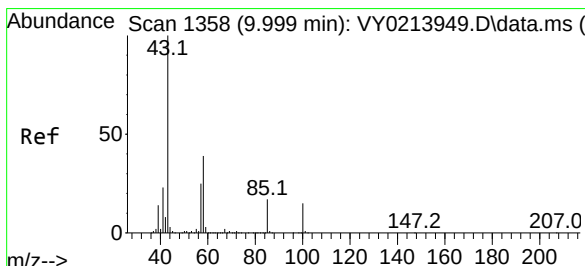
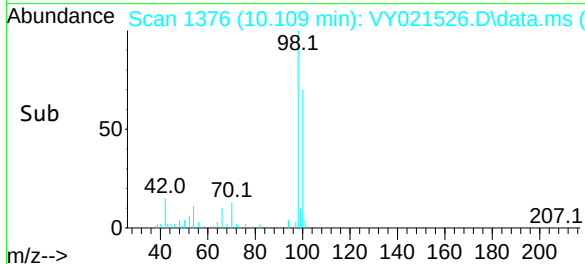
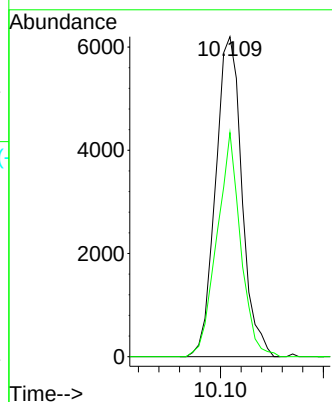
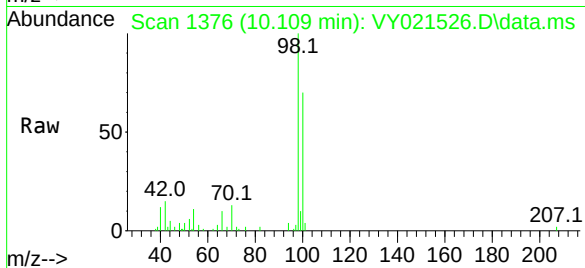
72-11978RE

Tgt Ion: 98 Resp: 11010

Ion Ratio Lower Upper

98 100

100 63.2 52.1 78.1



#51

4-Methyl-2-Pentanone

Concen: 3.153 ug/l

RT: 10.091 min Scan# 1373

Delta R.T. 0.092 min

Lab File: VY021526.D

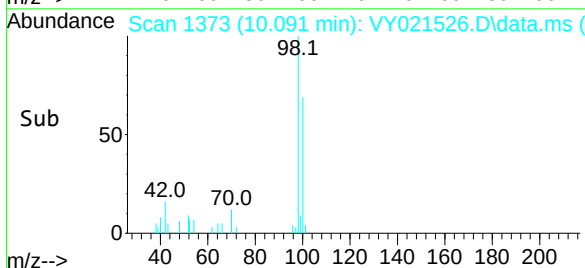
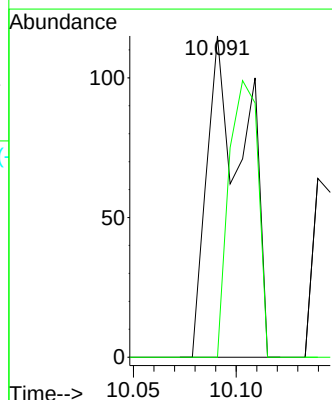
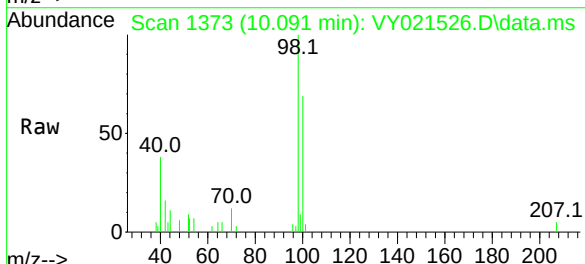
Acq: 13 Mar 2025 15:41

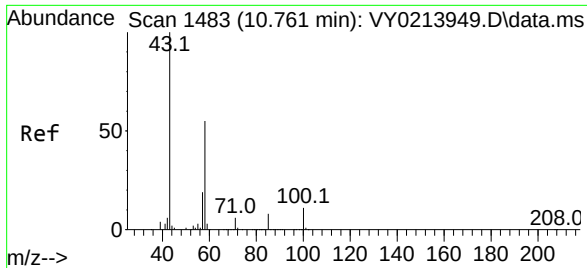
Tgt Ion: 43 Resp: 149

Ion Ratio Lower Upper

43 100

58 65.1 31.4 47.2#

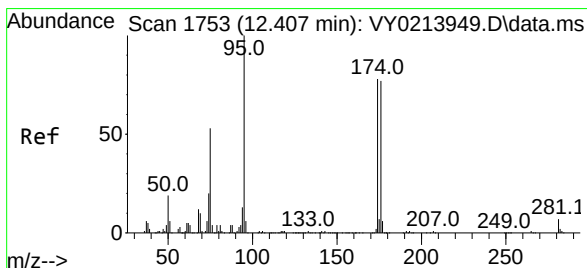
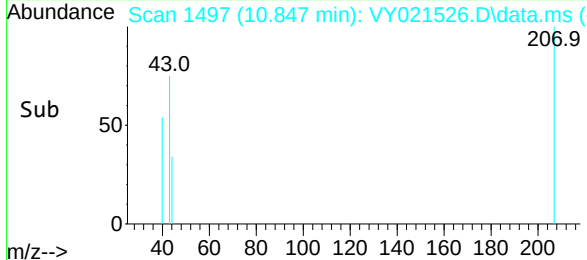
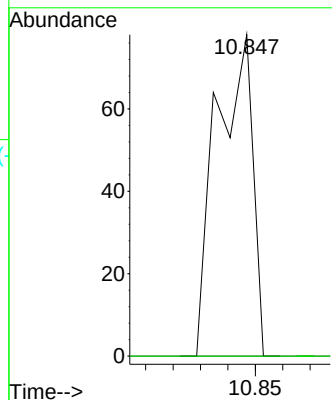
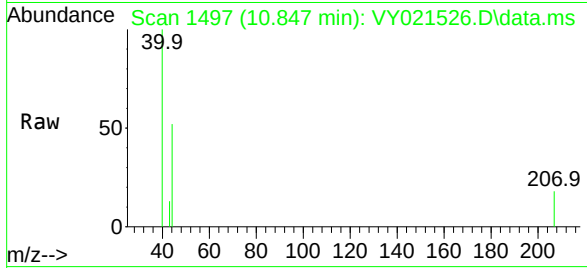




#59
2-Hexanone
Concen: 2.272 ug/l
RT: 10.847 min Scan# 1483
Delta R.T. 0.086 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

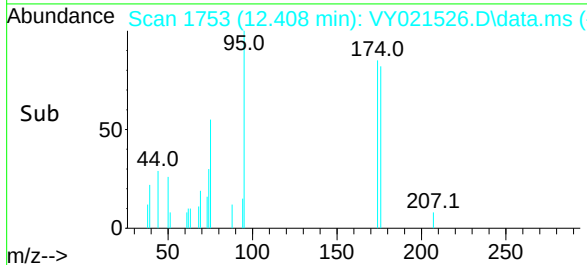
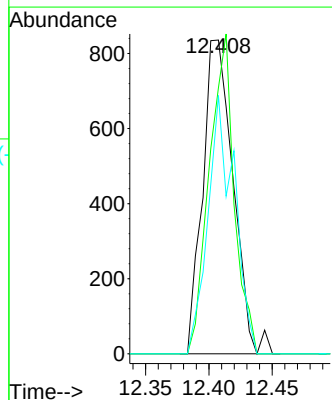
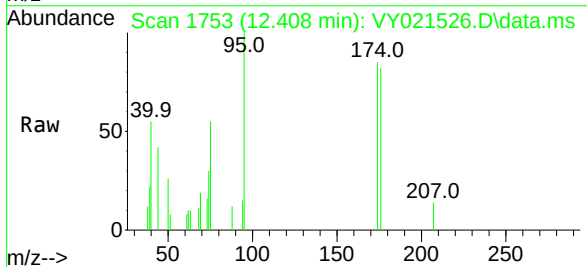
Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

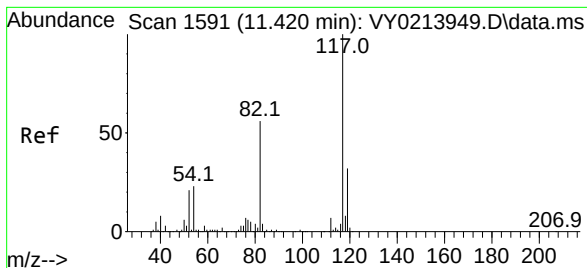
Tgt Ion: 43 Resp: 71
Ion Ratio Lower Upper
43 100
58 0.0 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 15.941 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.000 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 95 Resp: 1400
Ion Ratio Lower Upper
95 100
174 83.4 0.0 165.0
176 71.5 0.0 160.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

Instrument :

MSVOA_Y

ClientSampleId :

72-11978RE

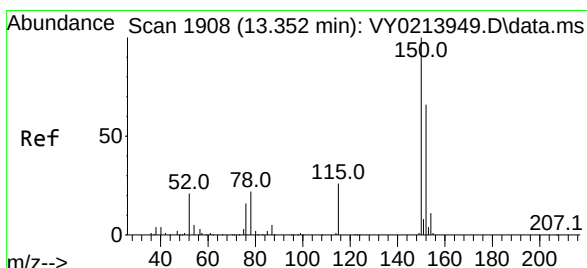
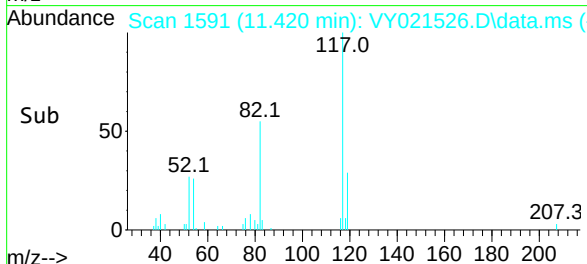
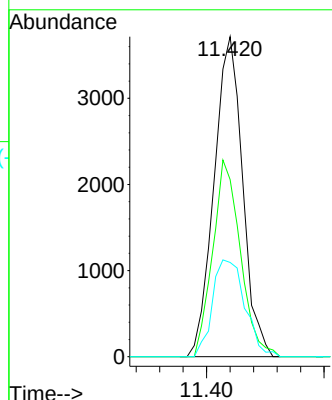
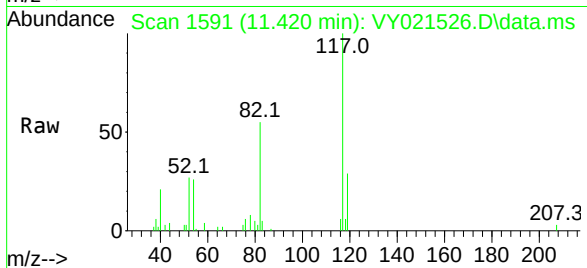
Tgt Ion:117 Resp: 6275

Ion Ratio Lower Upper

117 100

82 55.4 44.6 67.0

119 29.5 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY021526.D

Acq: 13 Mar 2025 15:41

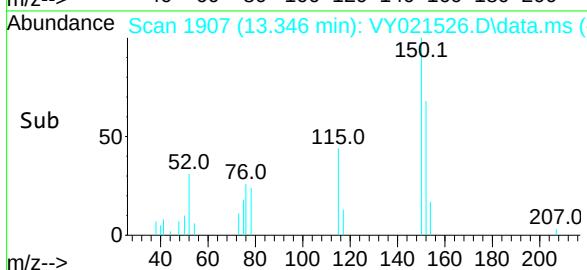
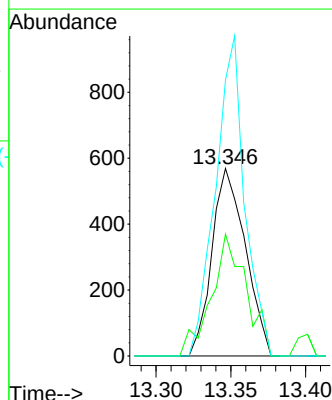
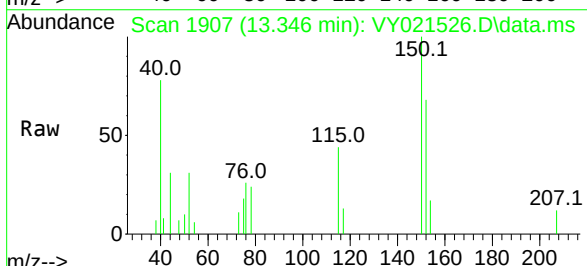
Tgt Ion:152 Resp: 885

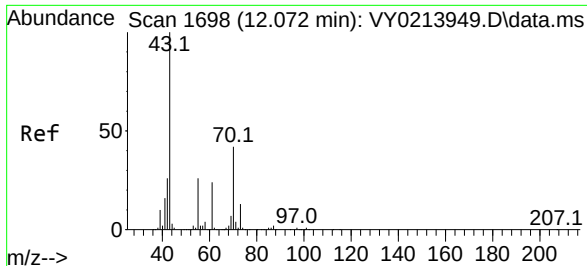
Ion Ratio Lower Upper

152 100

115 67.7 29.0 87.0

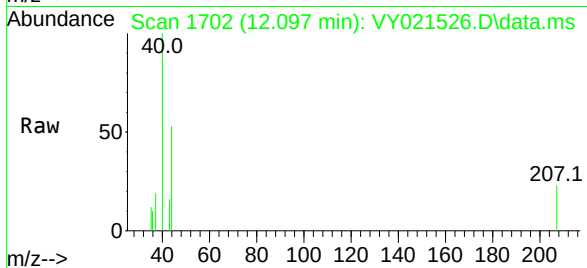
150 149.4 0.0 347.2



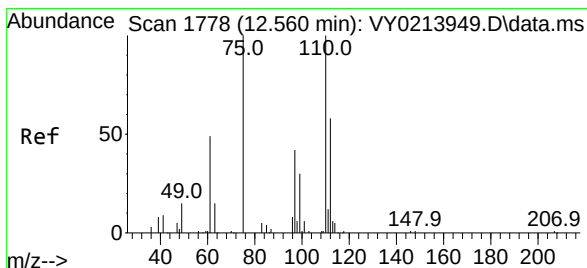
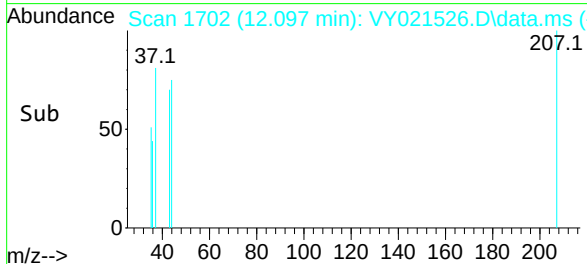
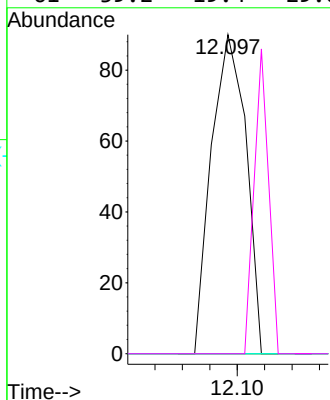


#74
N-amy1 acetate
Concen: 5.218 ug/l
RT: 12.097 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

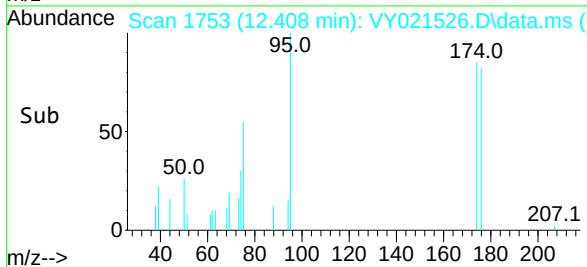
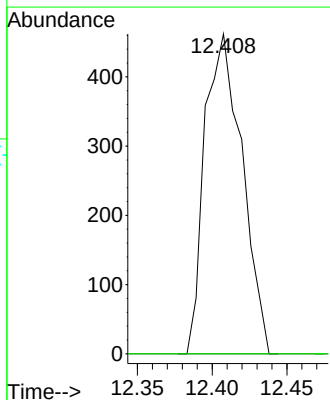
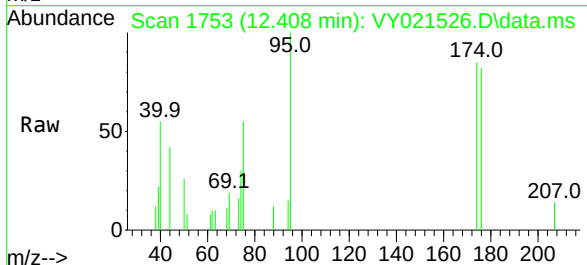


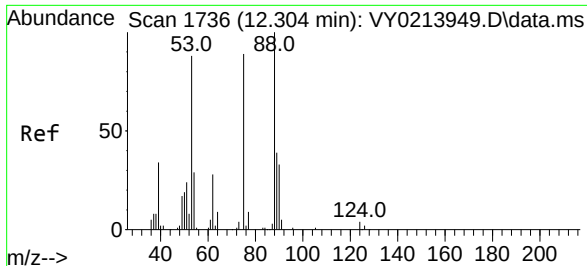
Tgt Ion:	43	Resp:	79
Ion	Ratio	Lower	Upper
43	100		
70	0.0	34.6	51.8#
55	0.0	21.1	31.7#
61	39.2	19.4	29.0#



#76
1,2,3-Trichloropropane
Concen: 90.043 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. -0.152 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion:	75	Resp:	803
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0

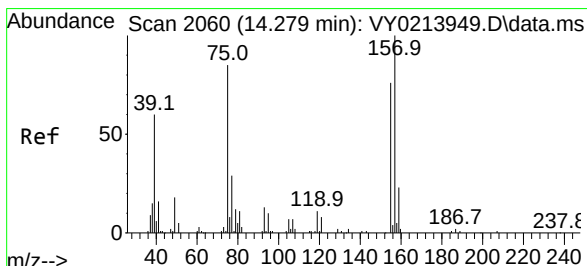
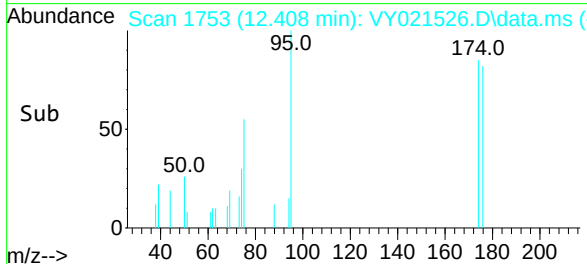
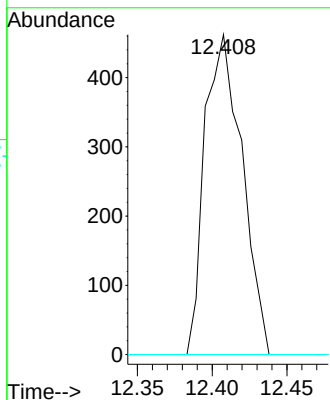
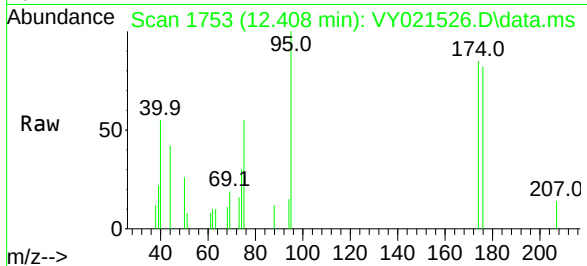




#81
trans-1,4-Dichloro-2-butene
Concen: 204.695 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Instrument :
MSVOA_Y
ClientSampleId :
72-11978RE

Tgt Ion: 75 Resp: 803
Ion Ratio Lower Upper
75 100
53 0.0 81.0 121.4#
89 0.0 36.9 55.3#



#92
1,2-Dibromo-3-Chloropropane
Concen: 14.652 ug/l
RT: 14.297 min Scan# 2063
Delta R.T. 0.019 min
Lab File: VY021526.D
Acq: 13 Mar 2025 15:41

Tgt Ion: 75 Resp: 27
Ion Ratio Lower Upper
75 100
155 0.0 43.5 130.5#
157 0.0 54.4 163.2#

