

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
 Data File : VY021597.D
 Acq On : 21 Mar 2025 14:15
 Operator : SY/MD
 Sample : Q1619-05
 Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1

Quant Time: Mar 21 23:11:14 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)

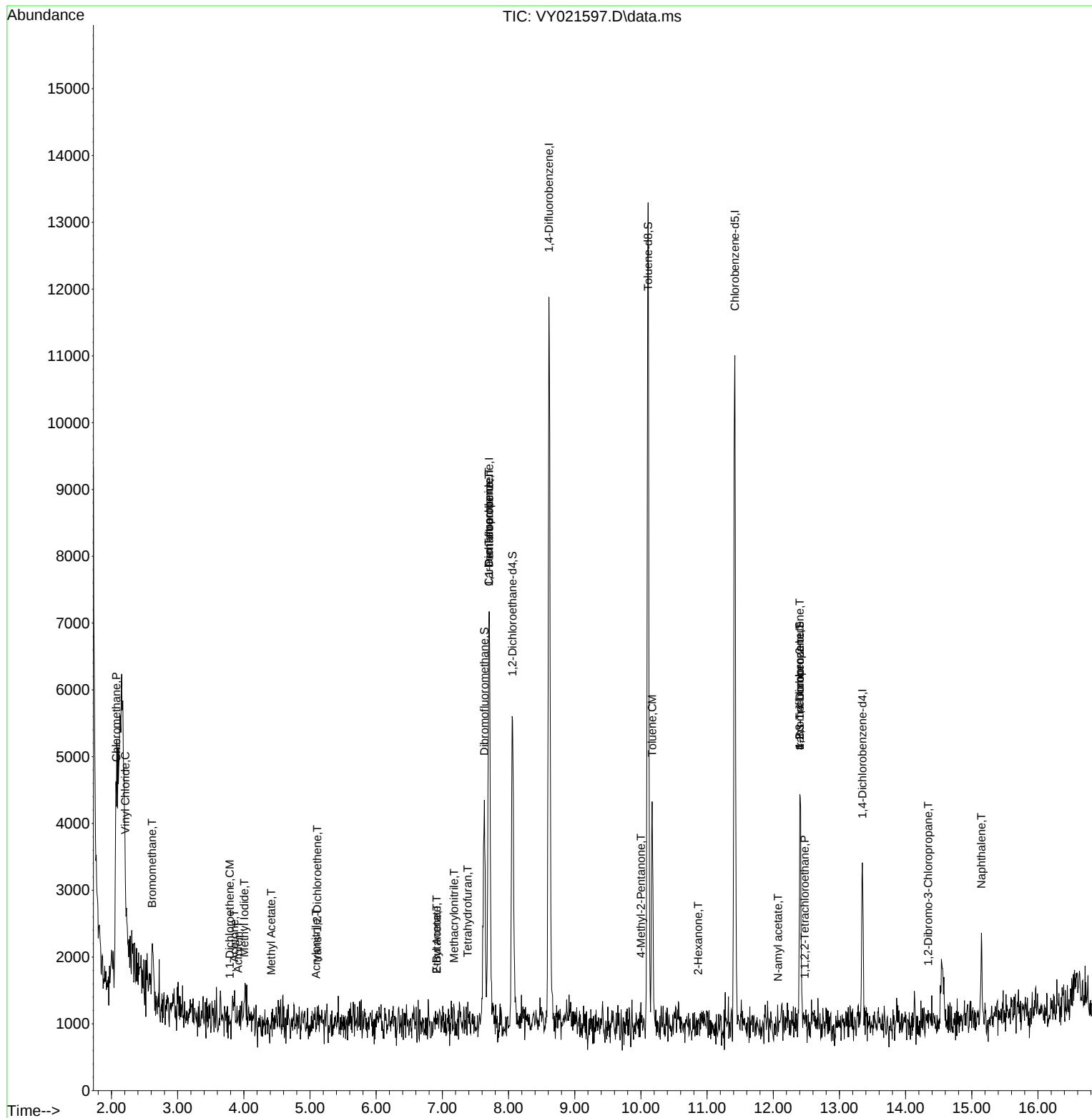
Internal Standards						
1) Pentafluorobenzene	7.707	168	4668	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.610	114	8946	50.000	ug/l	-0.01
63) Chlorobenzene-d5	11.420	117	5563	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	767	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	3851	78.054	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	156.100%
35) Dibromofluoromethane	7.634	113	2468	41.970	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	83.940%
50) Toluene-d8	10.109	98	8557	38.433	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	76.860%
62) 4-Bromofluorobenzene	12.402	95	1313	17.337	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	34.680%
Target Compounds						
					Qvalue	
3) Chloromethane	2.074	50	444	7.352	ug/l #	76
4) Vinyl Chloride	2.208	62	186	2.818	ug/l #	42
5) Bromomethane	2.611	94	392	8.218	ug/l	86
10) Methyl Iodide	4.007	142	579	10.830	ug/l	91
11) Tert butyl alcohol	5.043	59	65	Below Cal	#	72
12) 1,1-Dichloroethene	3.787	96	63	1.314	ug/l #	1
13) Acrolein	3.915	56	19	7.571	ug/l #	10
15) Acrylonitrile	5.092	53	27	2.485	ug/l #	17
16) Acetone	3.854	43	154	14.311	ug/l #	47
18) Methyl Acetate	4.415	43	31	1.298	ug/l #	51
21) trans-1,2-Dichloroethene	5.110	96	76	1.415	ug/l #	1
25) 2-Butanone	6.915	43	152	10.211	ug/l #	48
29) Tetrahydrofuran	7.384	42	58	6.311	ug/l #	33
36) 1,1-Dichloropropene	7.701	75	537	5.834	ug/l #	41
37) Ethyl Acetate	6.915	43	152	3.736	ug/l #	68
38) Carbon Tetrachloride	7.701	117	567	5.356	ug/l #	12
41) Methacrylonitrile	7.177	41	36	1.625	ug/l #	24
51) 4-Methyl-2-Pentanone	10.000	43	138	3.387	ug/l #	36
52) Toluene	10.170	92	1272	7.441	ug/l	97
59) 2-Hexanone	10.865	43	47	1.744	ug/l	86
74) N-amyl acetate	12.072	43	23	1.753	ug/l #	42
75) 1,1,2,2-Tetrachloroethane	12.475	83	34	3.189	ug/l #	26
76) 1,2,3-Trichloropropane	12.402	75	752	97.297	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	752	221.186	ug/l #	11
92) 1,2-Dibromo-3-Chloropr...	14.340	75	52	32.559	ug/l #	1
95) Naphthalene	15.145	128	1075	48.477	ug/l #	88

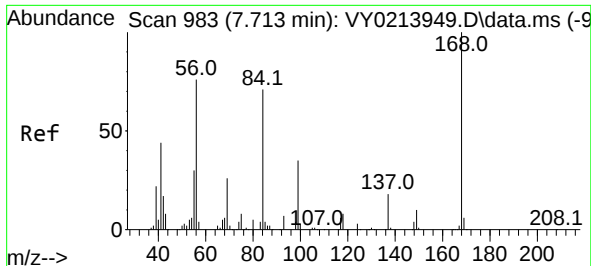
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032125\
Data File : VY021597.D
Acq On : 21 Mar 2025 14:15
Operator : SY/MD
Sample : Q1619-05
Misc : 5.08g/5.0mL/MSVOA_Y/SOIL/A
ALS Vial : 10 Sample Multiplier: 1

Instrument :
MSVOA_Y
ClientSampleId :
TP-1

Quant Time: Mar 21 23:11:14 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

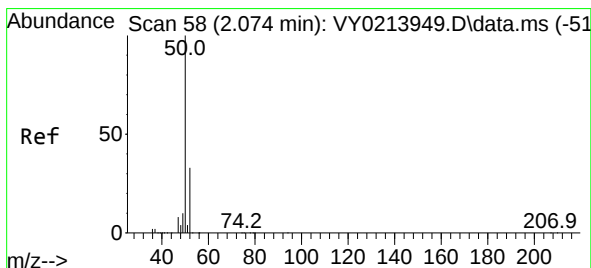
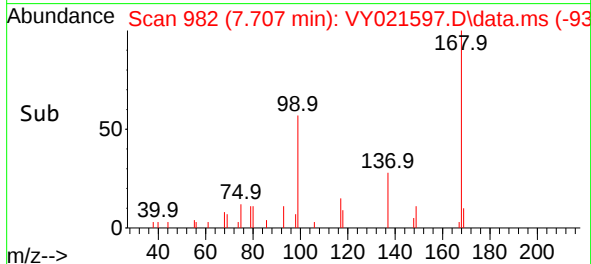
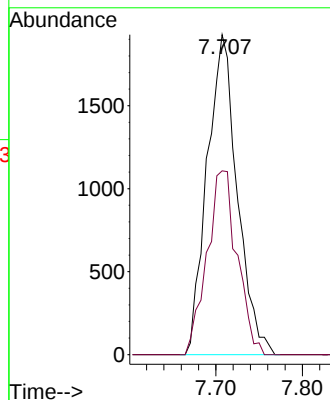
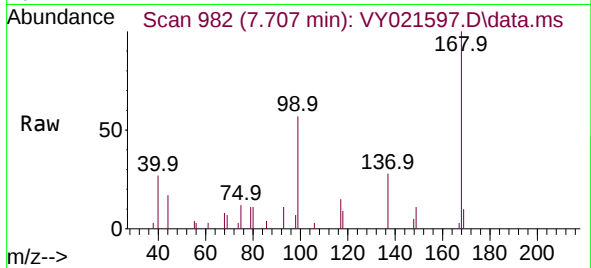




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 99
Delta R.T. -0.006 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

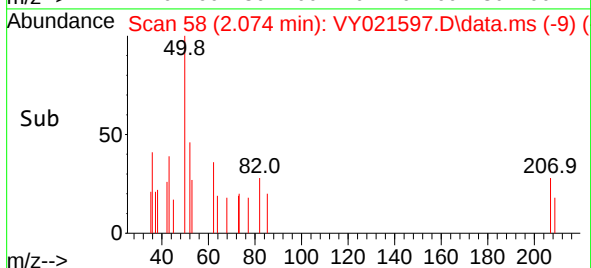
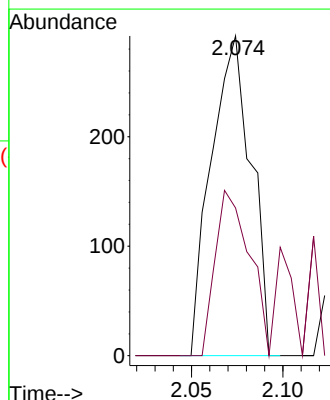
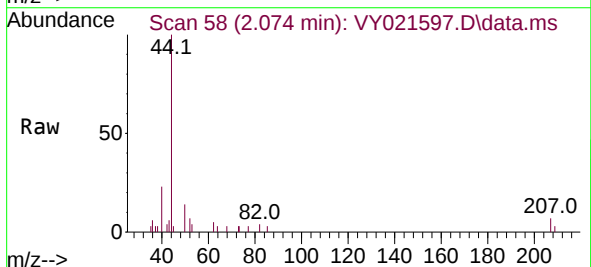
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

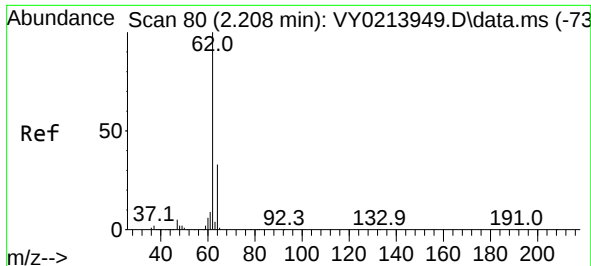
Tgt Ion:168 Resp: 4668
Ion Ratio Lower Upper
168 100
99 57.5 46.0 69.0



#3
Chloromethane
Concen: 7.352 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.000 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 50 Resp: 444
Ion Ratio Lower Upper
50 100
52 46.2 26.2 39.2#

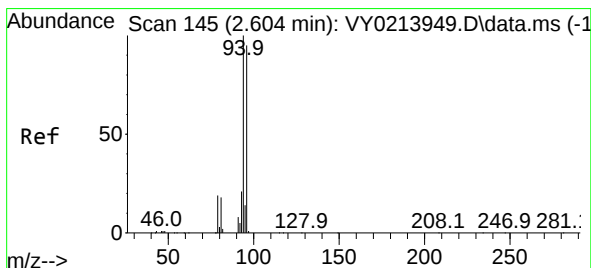
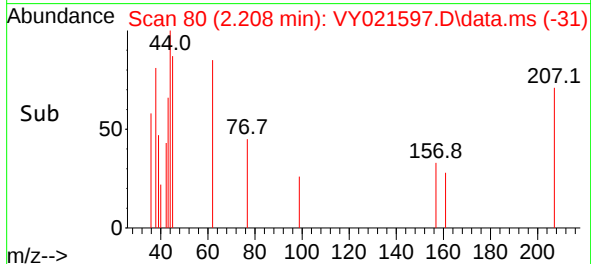
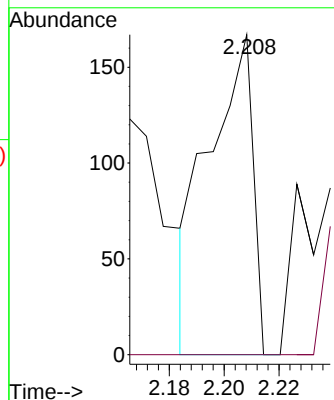
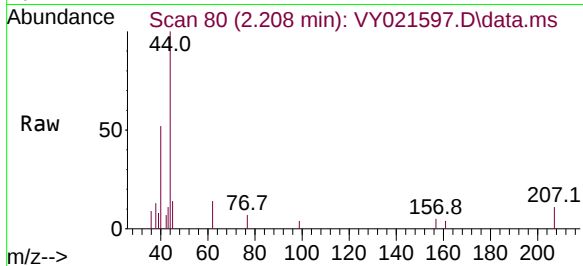




#4
 Vinyl Chloride
 Concen: 2.818 ug/l
 RT: 2.208 min Scan# 80
 Delta R.T. 0.000 min
 Lab File: VY021597.D
 Acq: 21 Mar 2025 14:15

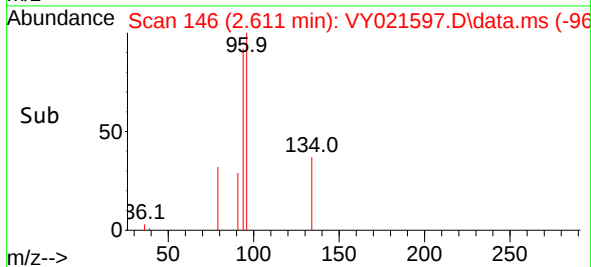
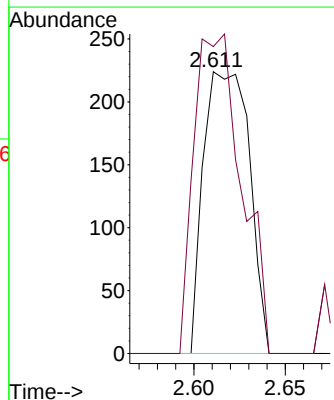
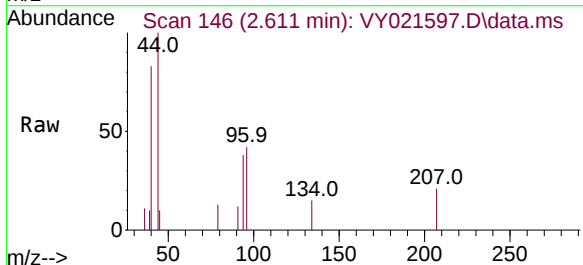
Instrument :
 MSVOA_Y
 ClientSampleId :
 TP-1

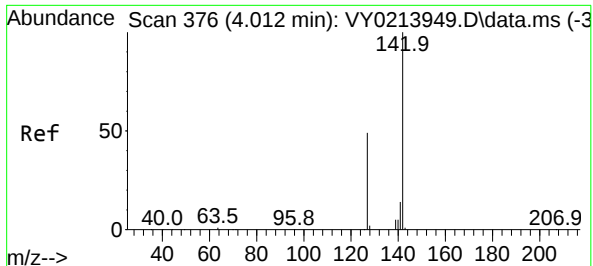
Tgt Ion: 62 Resp: 186
 Ion Ratio Lower Upper
 62 100
 64 0.0 26.2 39.2#



#5
 Bromomethane
 Concen: 8.218 ug/l
 RT: 2.611 min Scan# 146
 Delta R.T. 0.006 min
 Lab File: VY021597.D
 Acq: 21 Mar 2025 14:15

Tgt Ion: 94 Resp: 392
 Ion Ratio Lower Upper
 94 100
 96 108.9 76.3 114.5





#10

Methyl Iodide

Concen: 10.830 ug/l

RT: 4.007 min Scan# 31

Delta R.T. -0.006 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

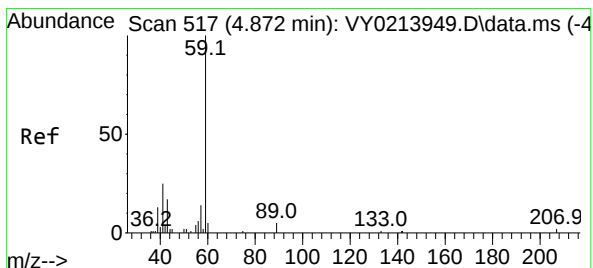
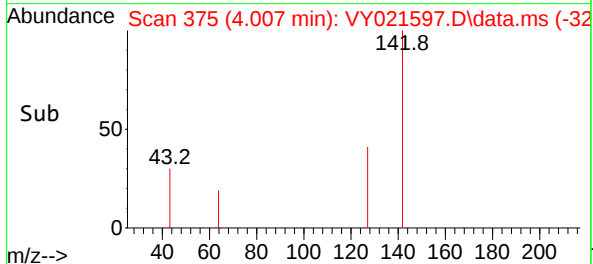
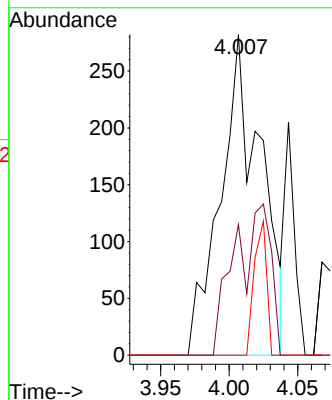
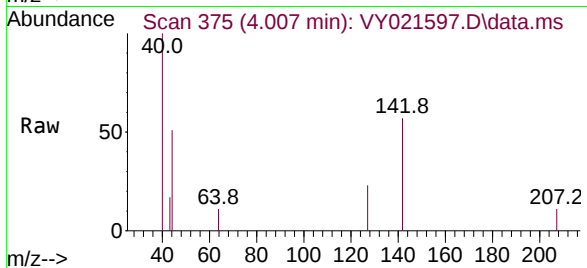
Tgt Ion:142 Resp: 579

Ion Ratio Lower Upper

142 100

127 41.6 39.1 58.7

141 13.0 11.8 17.6



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.043 min Scan# 545

Delta R.T. 0.171 min

Lab File: VY021597.D

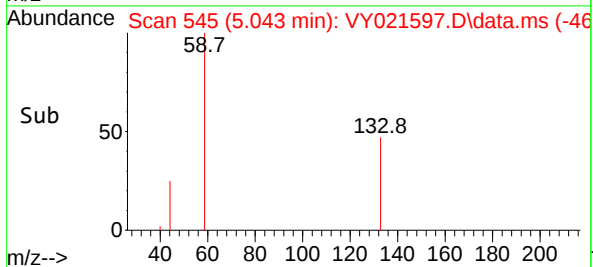
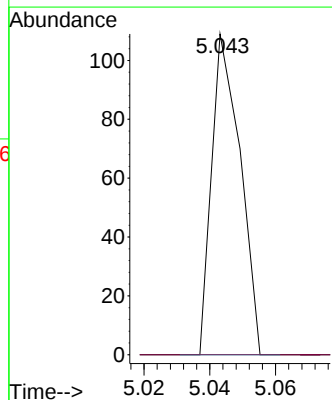
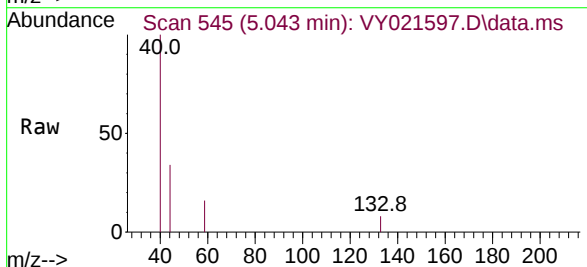
Acq: 21 Mar 2025 14:15

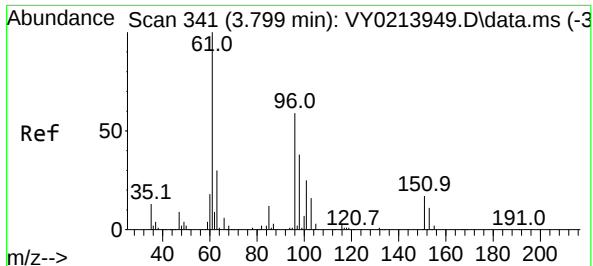
Tgt Ion: 59 Resp: 65

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#





#12

1,1-Dichloroethene

Concen: 1.314 ug/l

RT: 3.787 min Scan# 31

Delta R.T. -0.012 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

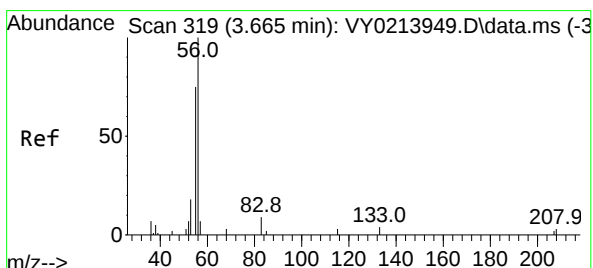
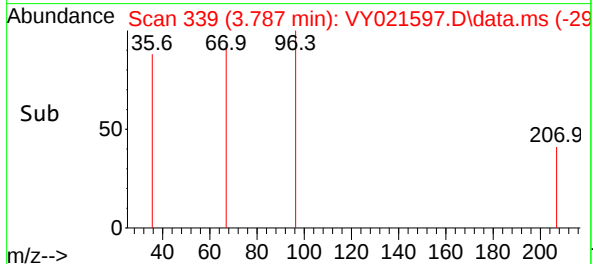
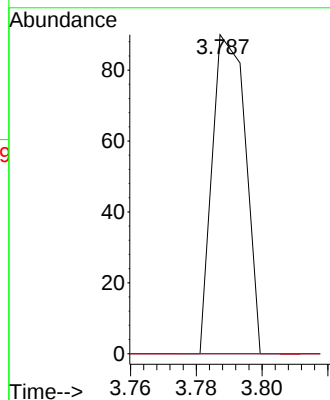
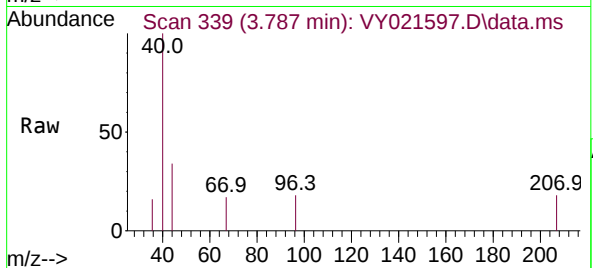
Tgt Ion: 96 Resp: 63

Ion Ratio Lower Upper

96 100

61 0.0 135.2 202.8#

98 0.0 51.4 77.2#



#13

Acrolein

Concen: 7.571 ug/l

RT: 3.915 min Scan# 360

Delta R.T. 0.250 min

Lab File: VY021597.D

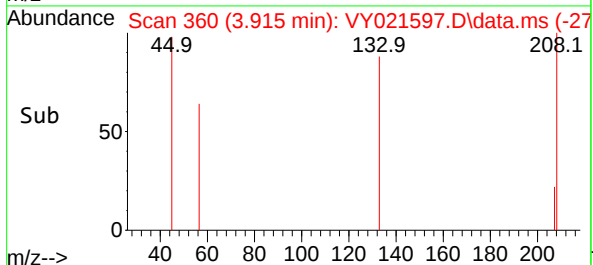
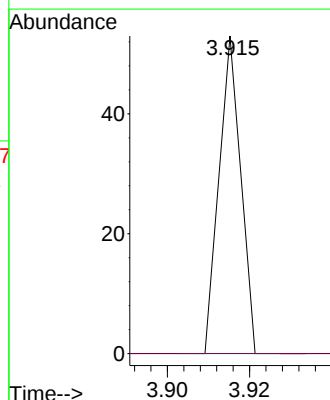
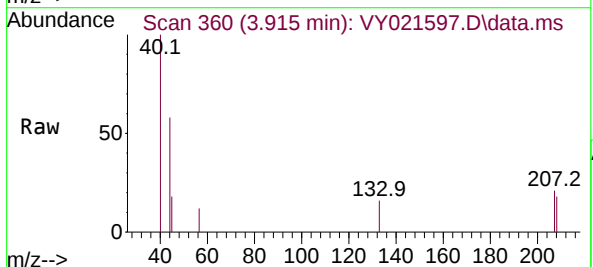
Acq: 21 Mar 2025 14:15

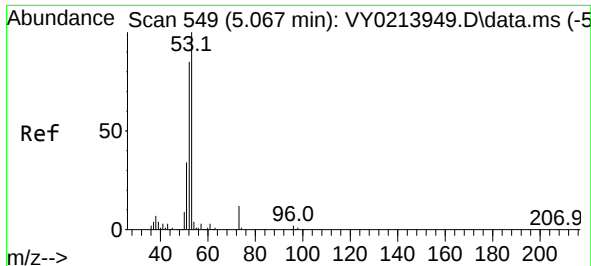
Tgt Ion: 56 Resp: 19

Ion Ratio Lower Upper

56 100

55 0.0 63.4 95.2#

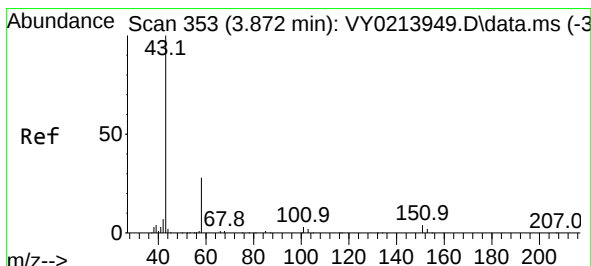
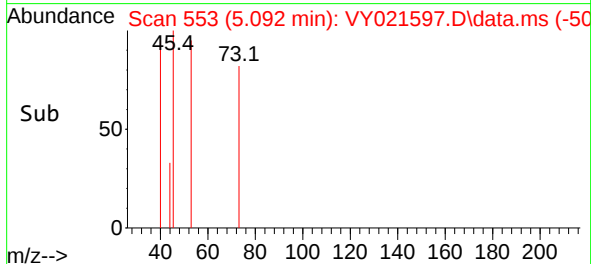
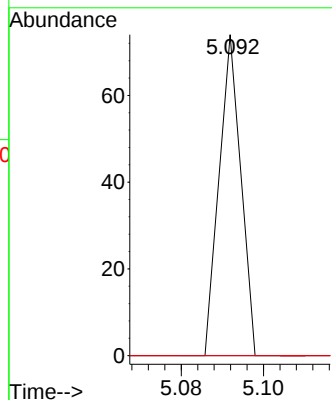
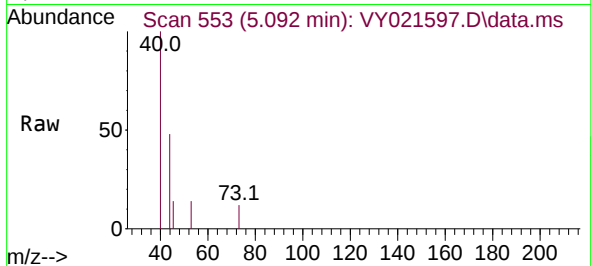




#15
Acrylonitrile
Concen: 2.485 ug/l
RT: 5.092 min Scan# 51
Delta R.T. 0.025 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

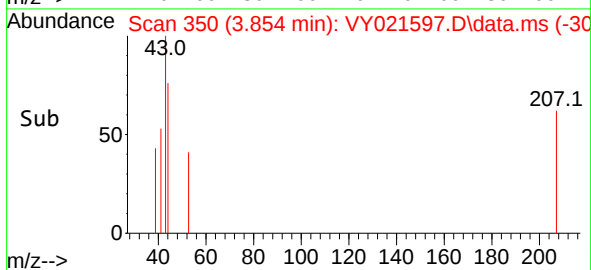
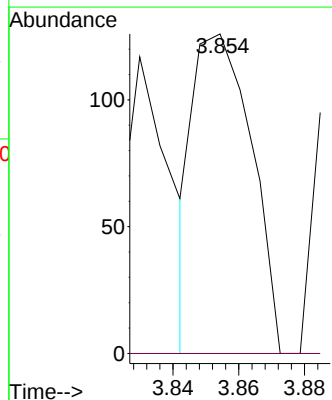
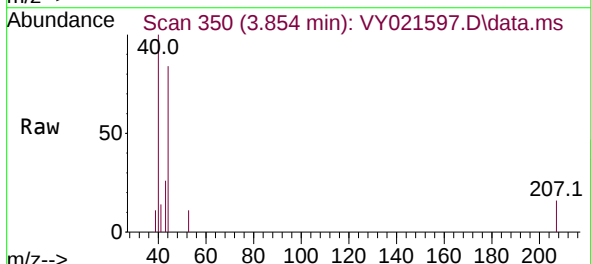
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

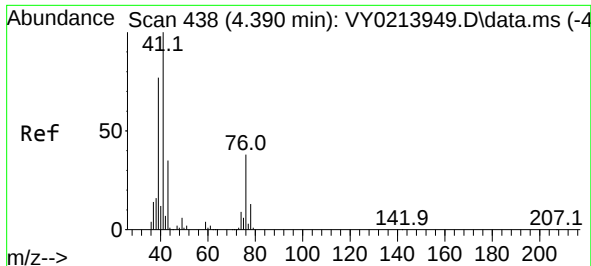
Tgt Ion: 53 Resp: 27
Ion Ratio Lower Upper
53 100
52 0.0 66.3 99.5#
51 0.0 30.3 45.5#



#16
Acetone
Concen: 14.311 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.018 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 43 Resp: 154
Ion Ratio Lower Upper
43 100
58 0.0 22.1 33.1#

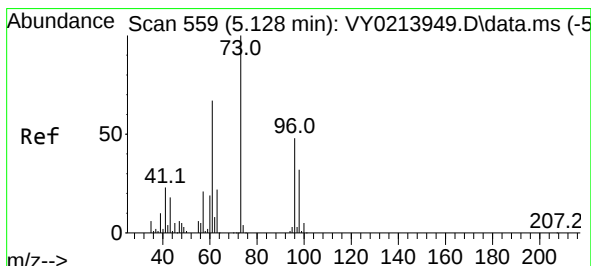
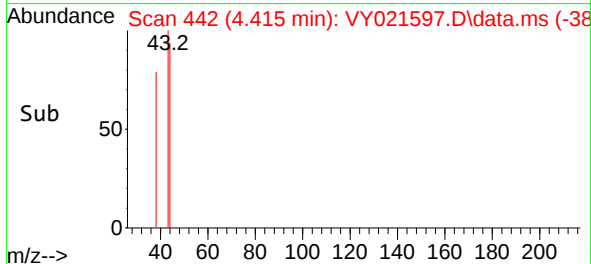
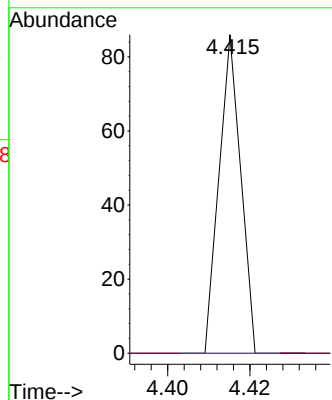
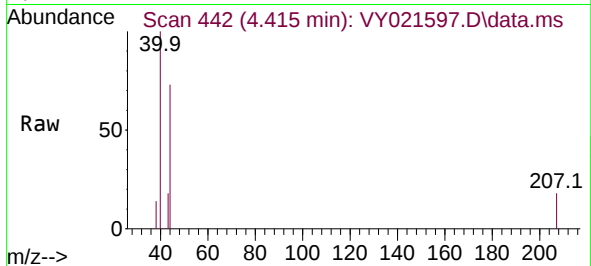




#18
Methyl Acetate
Concen: 1.298 ug/l
RT: 4.415 min Scan# 442
Delta R.T. 0.025 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

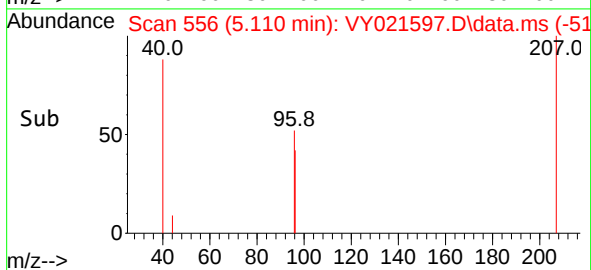
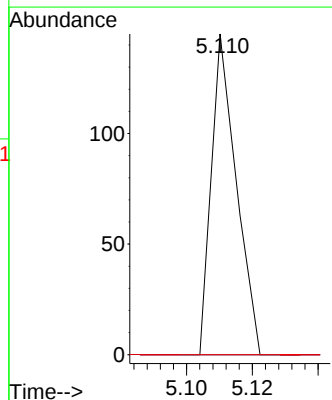
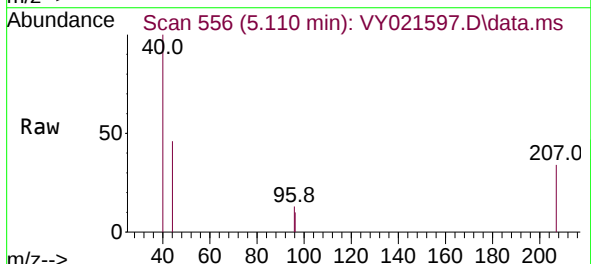
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

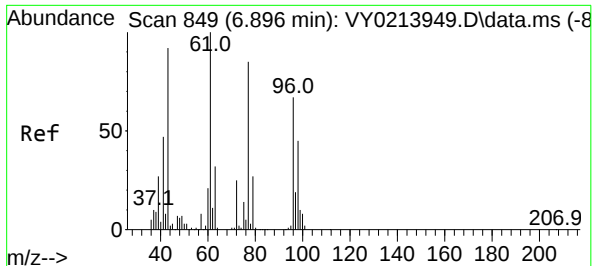
Tgt Ion: 43 Resp: 31
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#



#21
trans-1,2-Dichloroethene
Concen: 1.415 ug/l
RT: 5.110 min Scan# 556
Delta R.T. -0.018 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 96 Resp: 76
Ion Ratio Lower Upper
96 100
61 0.0 111.5 167.3#
98 0.0 53.8 80.8#





#25

2-Butanone

Concen: 10.211 ug/l

RT: 6.915 min Scan# 8

Delta R.T. 0.019 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

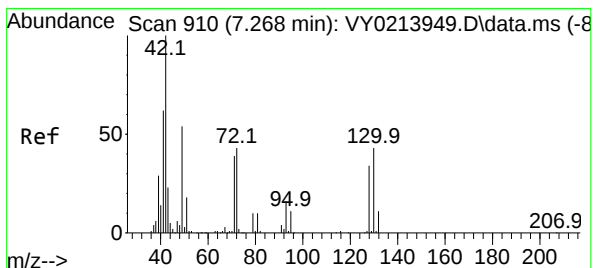
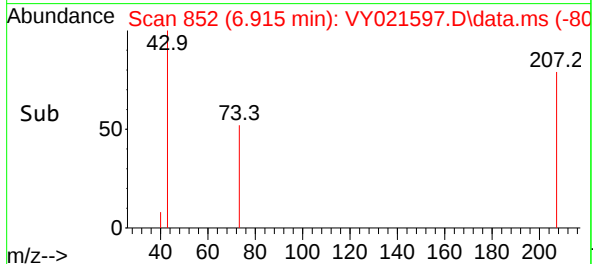
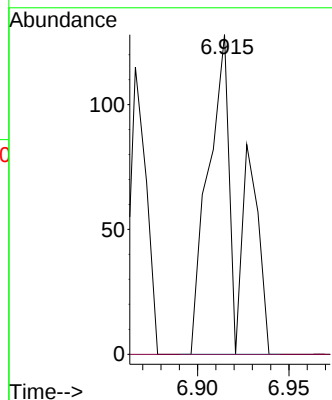
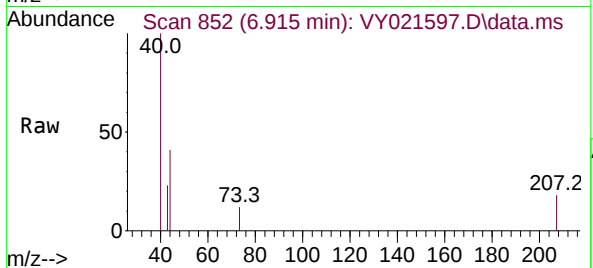
TP-1

Tgt Ion: 43 Resp: 152

Ion Ratio Lower Upper

43 100

72 0.0 21.4 32.0#



#29

Tetrahydrofuran

Concen: 6.311 ug/l

RT: 7.384 min Scan# 929

Delta R.T. 0.116 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

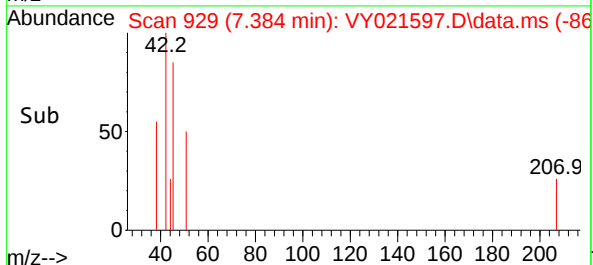
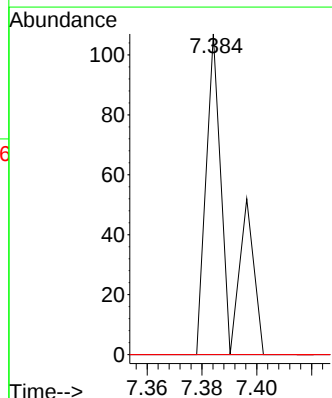
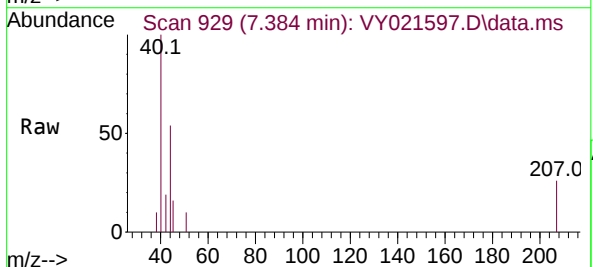
Tgt Ion: 42 Resp: 58

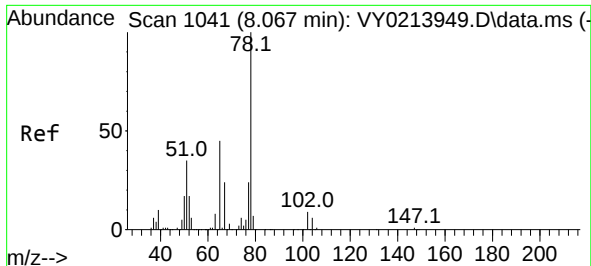
Ion Ratio Lower Upper

42 100

72 0.0 34.8 52.2#

71 0.0 32.6 48.8#





#33

1,2-Dichloroethane-d4

Concen: 78.054 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

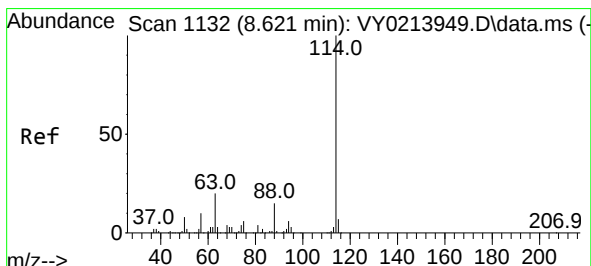
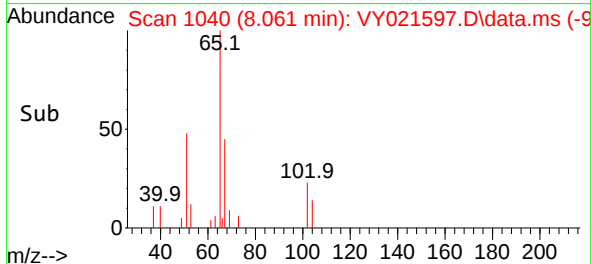
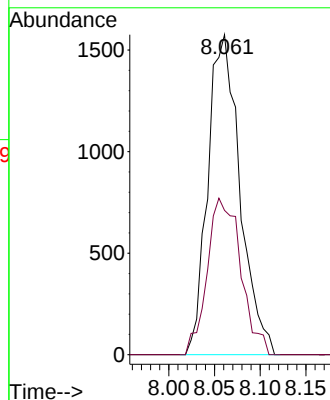
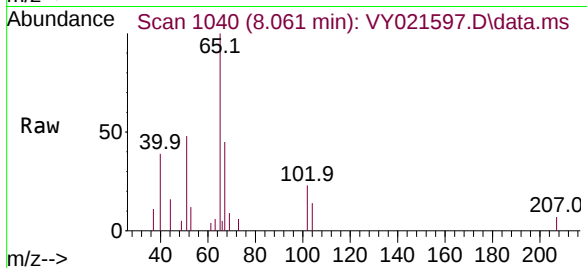
TP-1

Tgt Ion: 65 Resp: 3851

Ion Ratio Lower Upper

65 100

67 51.0 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.012 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

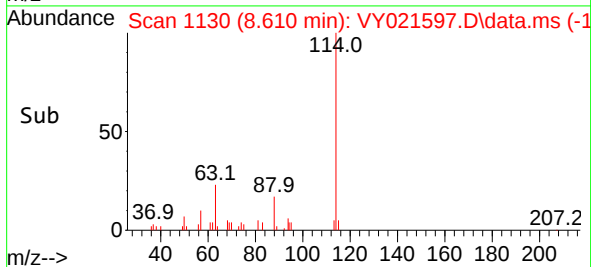
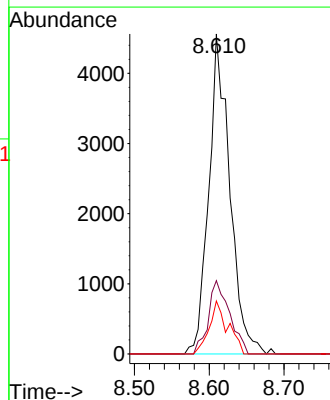
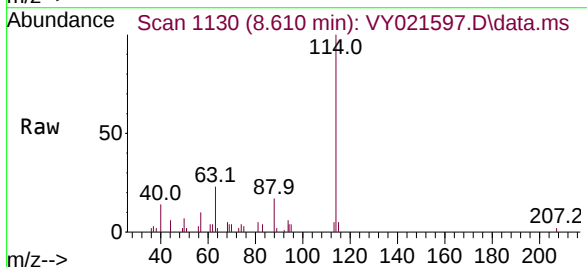
Tgt Ion: 114 Resp: 8946

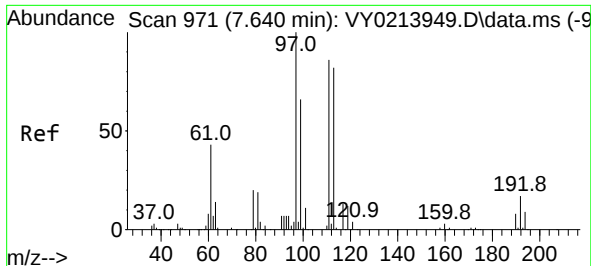
Ion Ratio Lower Upper

114 100

63 22.9 0.0 40.8

88 16.5 0.0 30.8

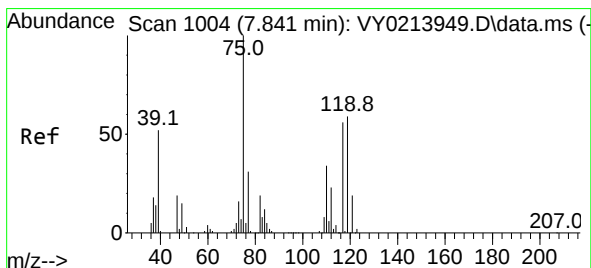
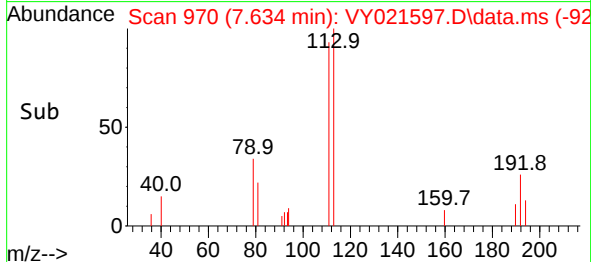
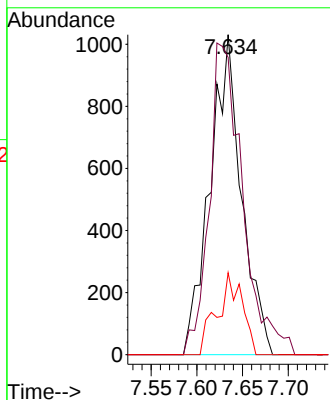
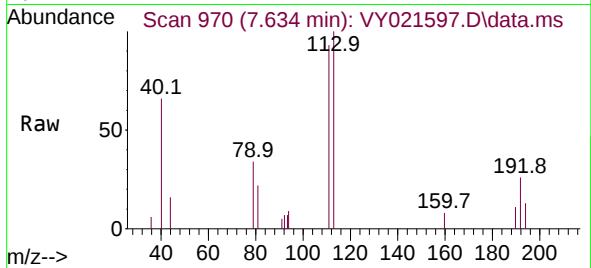




#35
Dibromofluoromethane
Concen: 41.970 ug/l
RT: 7.634 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

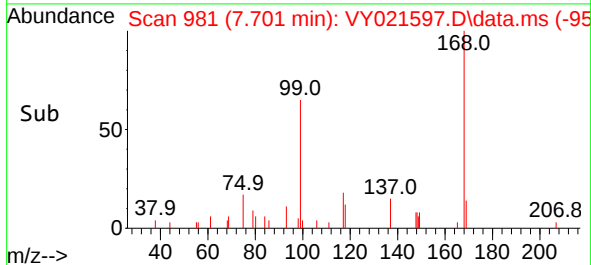
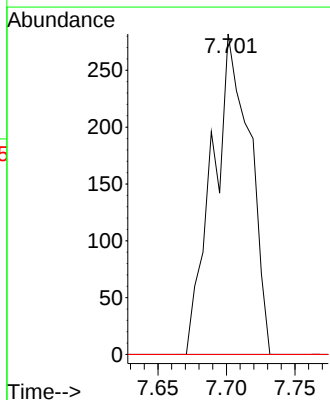
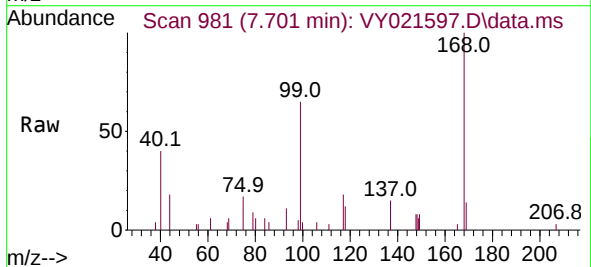
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

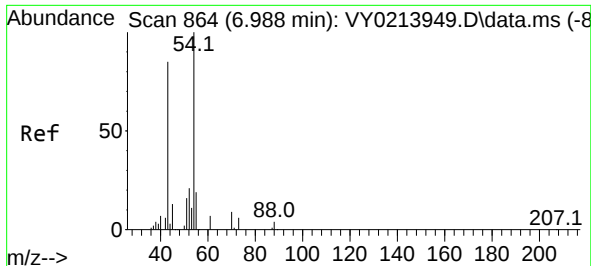
Tgt Ion:113 Resp: 2468
Ion Ratio Lower Upper
113 100
111 103.2 82.0 123.0
192 20.3 15.9 23.9



#36
1,1-Dichloropropene
Concen: 5.834 ug/l
RT: 7.701 min Scan# 981
Delta R.T. -0.140 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 75 Resp: 537
Ion Ratio Lower Upper
75 100
110 0.0 17.3 51.7#
77 0.0 25.4 38.2#





#37

Ethyl Acetate

Concen: 3.736 ug/l

RT: 6.915 min Scan# 8

Delta R.T. -0.073 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

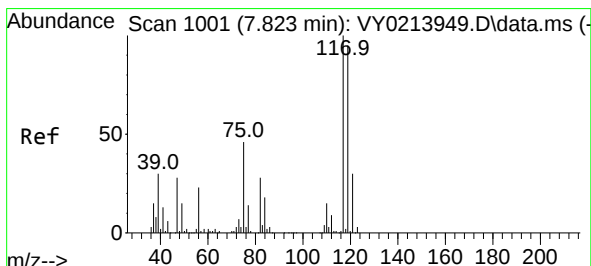
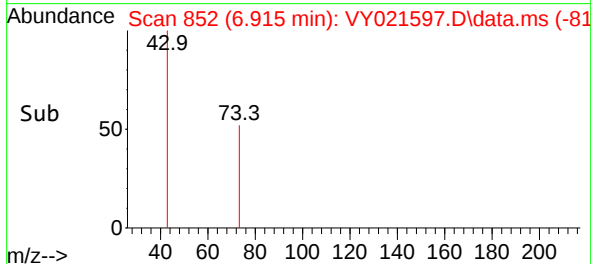
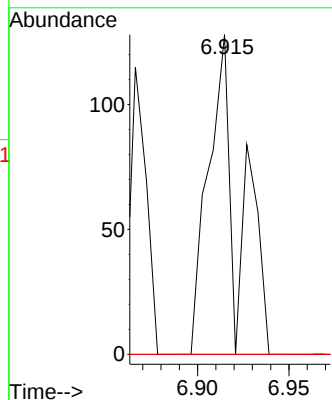
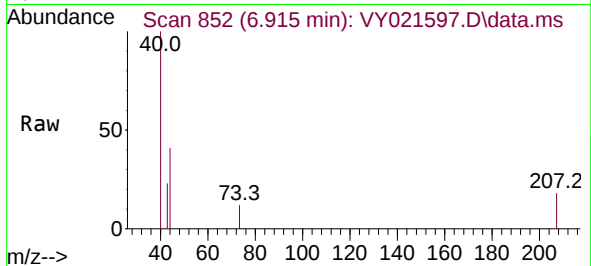
Tgt Ion: 43 Resp: 152

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 5.356 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.122 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

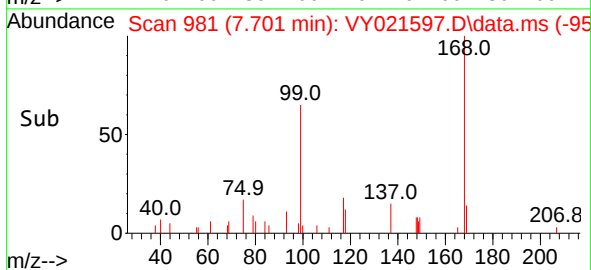
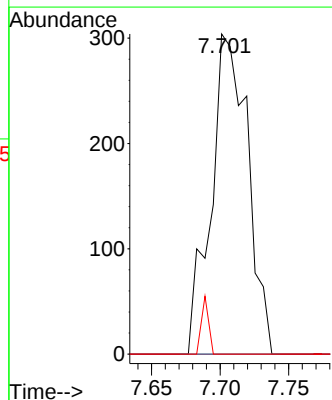
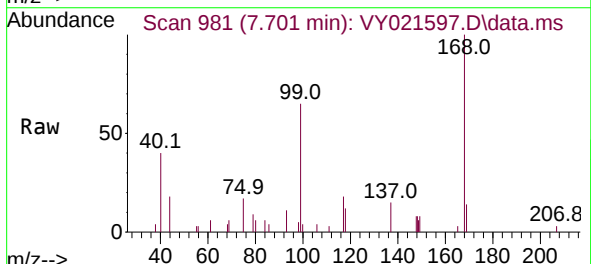
Tgt Ion: 117 Resp: 567

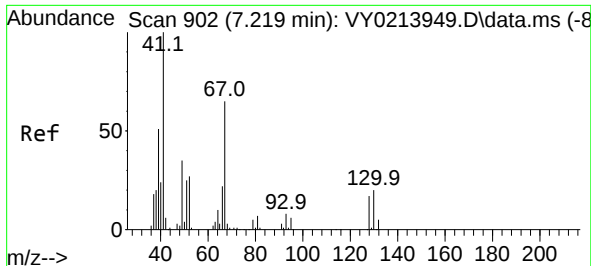
Ion Ratio Lower Upper

117 100

119 0.0 75.8 113.8#

121 0.0 23.9 35.9#

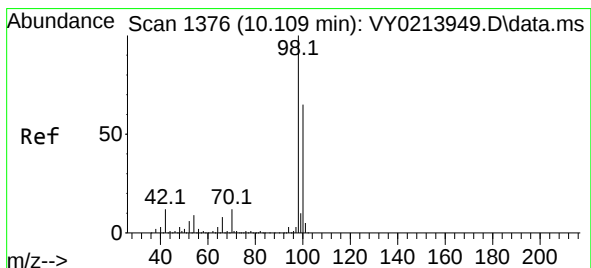
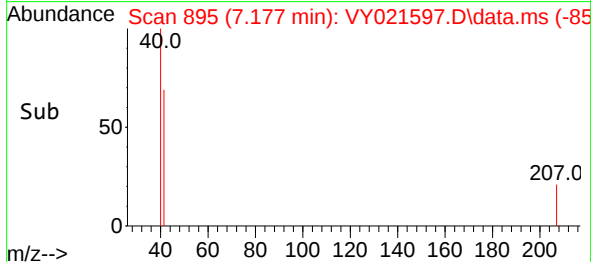
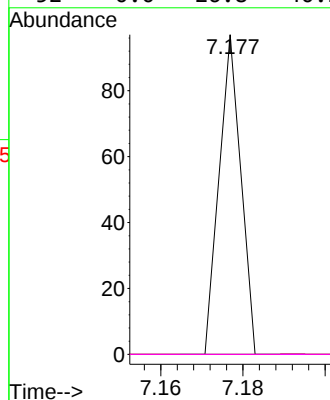
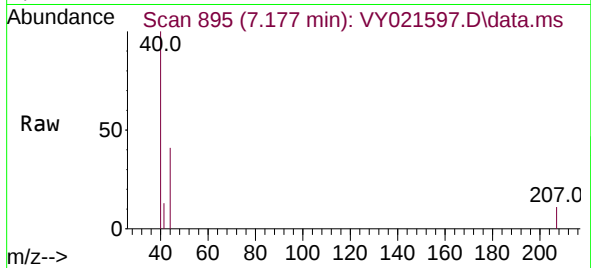




#41
Methacrylonitrile
Concen: 1.625 ug/l
RT: 7.177 min Scan# 895
Delta R.T. -0.042 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

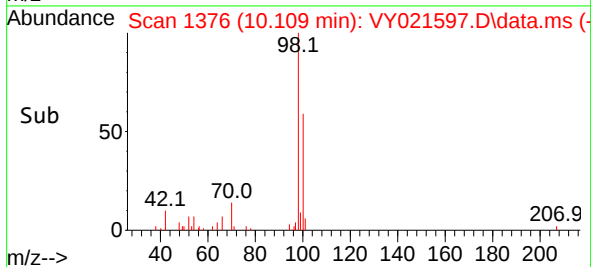
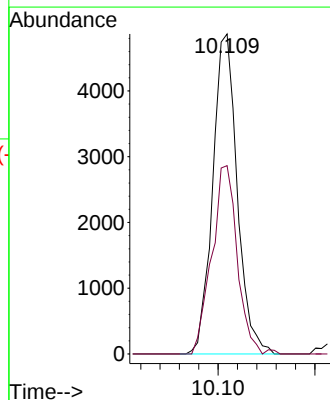
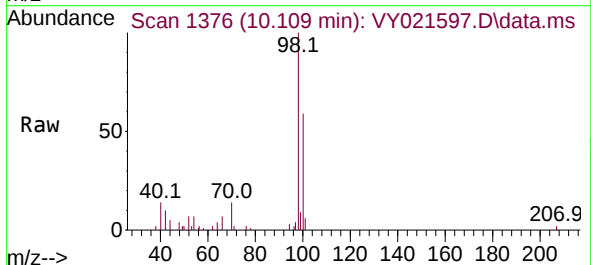
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

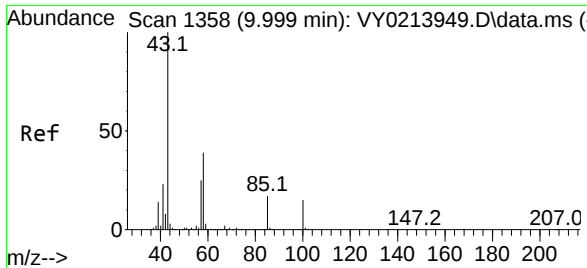
Tgt Ion:	41	Resp:	36
Ion	Ratio	Lower	Upper
41	100		
39	0.0	35.0	52.6#
67	0.0	61.2	91.8#
52	0.0	26.8	40.2#



#50
Toluene-d8
Concen: 38.433 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion:	98	Resp:	8557
Ion	Ratio	Lower	Upper
98	100		
100	61.2	52.1	78.1

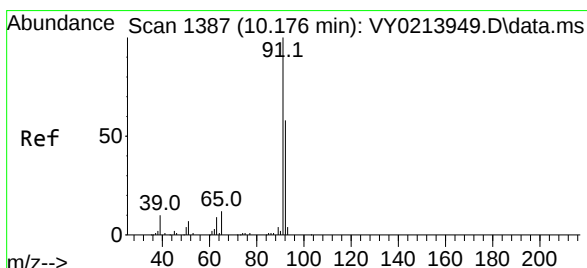
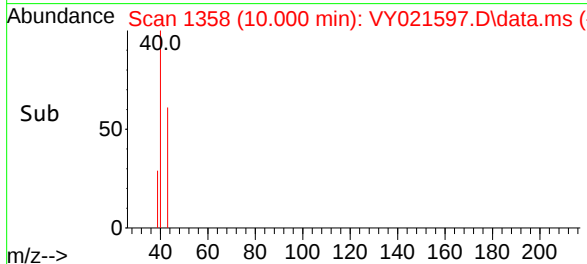
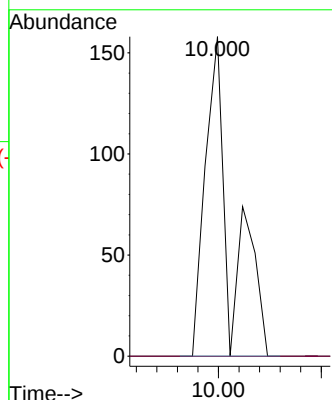
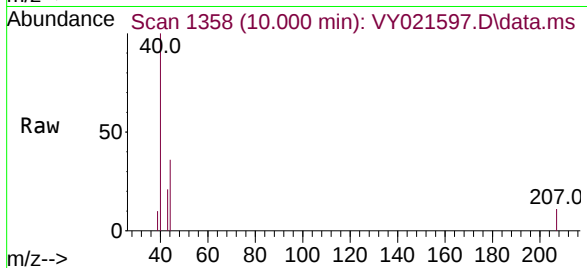




#51
4-Methyl-2-Pentanone
Concen: 3.387 ug/l
RT: 10.000 min Scan# 1358
Delta R.T. 0.000 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

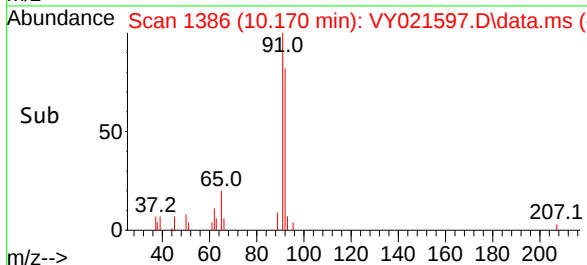
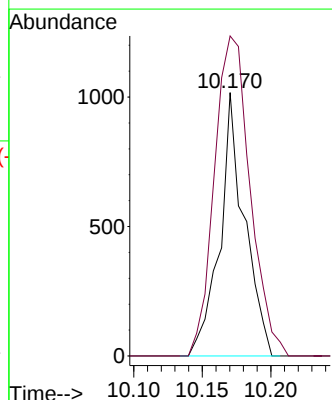
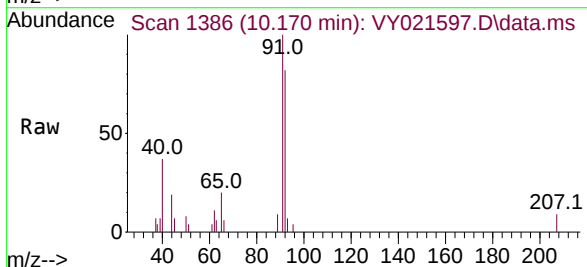
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

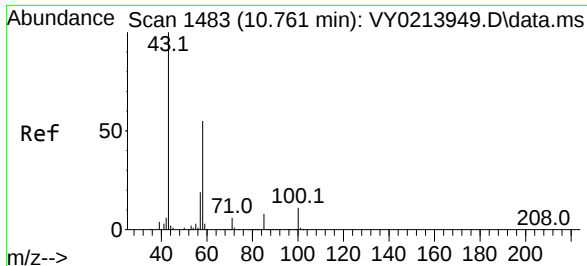
Tgt Ion: 43 Resp: 138
Ion Ratio Lower Upper
43 100
58 0.0 31.4 47.2#



#52
Toluene
Concen: 7.441 ug/l
RT: 10.170 min Scan# 1386
Delta R.T. -0.006 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 92 Resp: 1272
Ion Ratio Lower Upper
92 100
91 176.3 138.2 207.2





#59

2-Hexanone

Concen: 1.744 ug/l

RT: 10.865 min Scan# 11

Delta R.T. 0.104 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

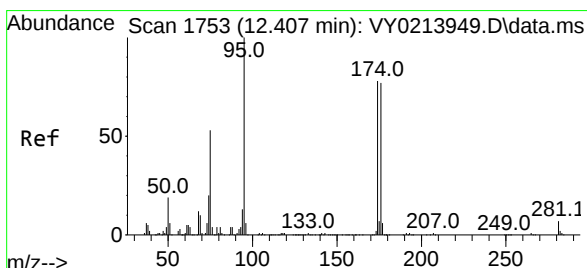
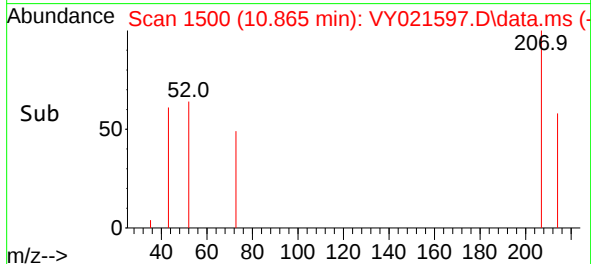
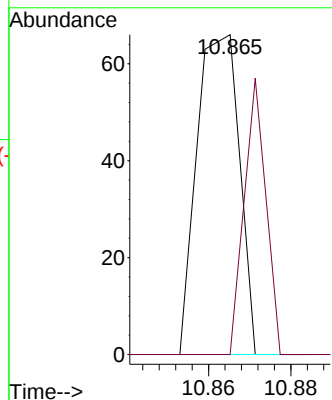
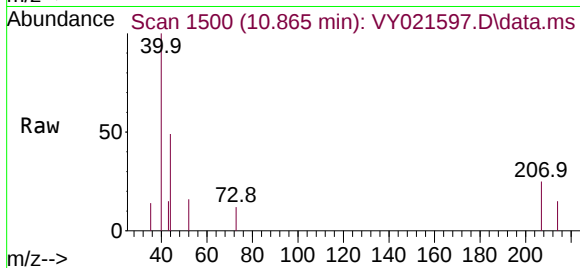
TP-1

Tgt Ion: 43 Resp: 47

Ion Ratio Lower Upper

43 100

58 44.7 27.3 81.8



#62

4-Bromofluorobenzene

Concen: 17.337 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

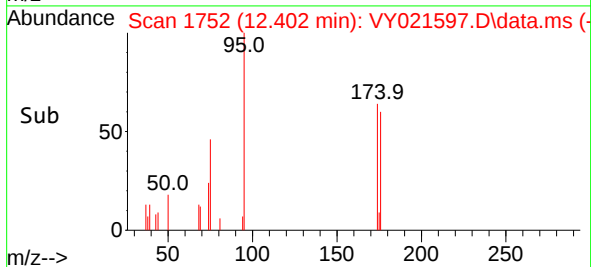
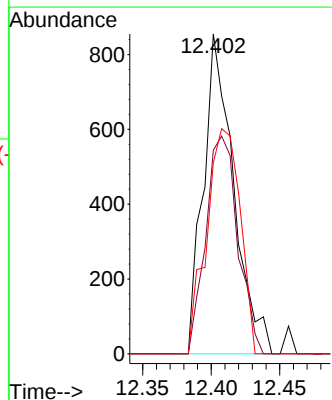
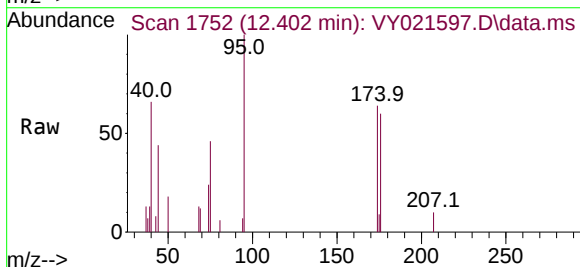
Tgt Ion: 95 Resp: 1313

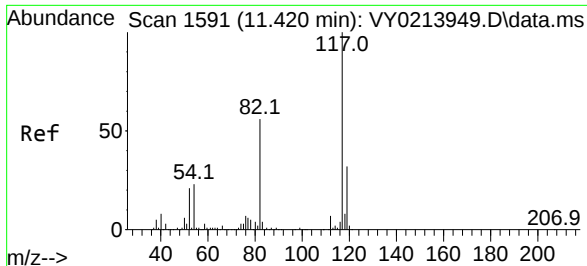
Ion Ratio Lower Upper

95 100

174 72.0 0.0 165.0

176 78.0 0.0 160.0

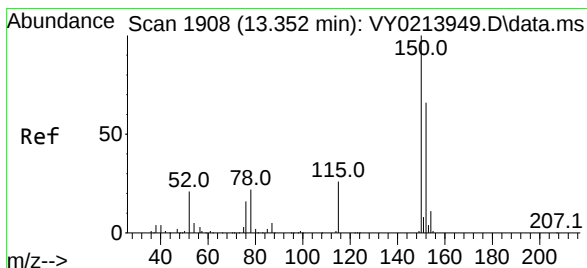
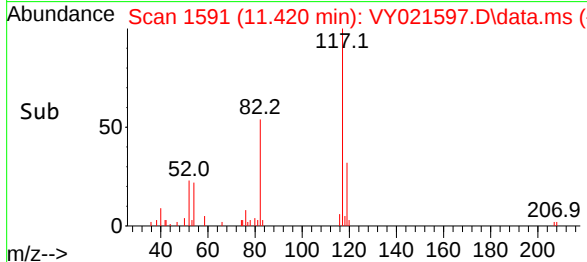
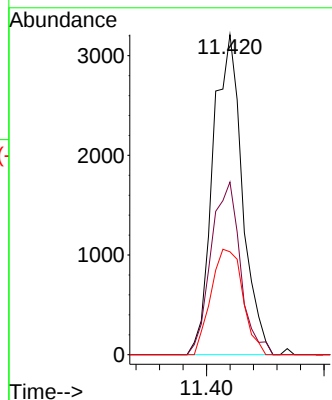
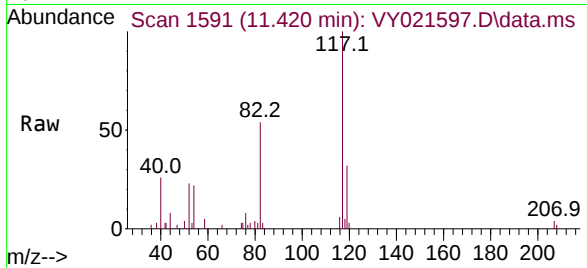




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.420 min Scan# 117
Delta R.T. 0.000 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

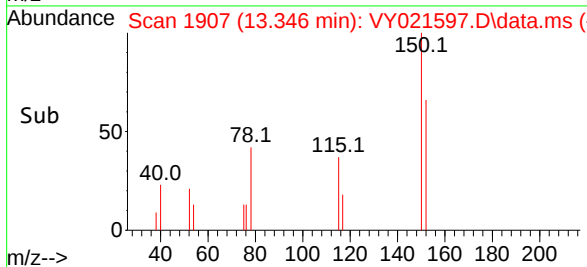
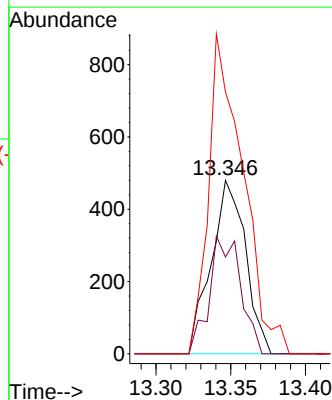
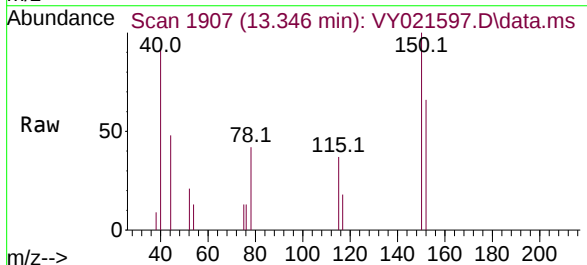
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

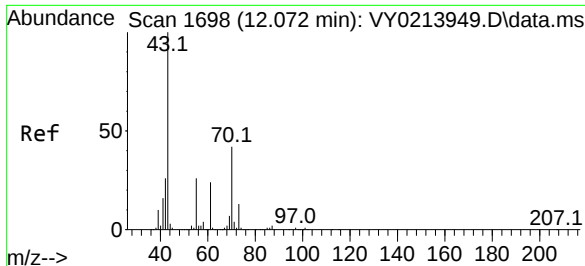
Tgt Ion:117	Resp:	5563
Ion Ratio	Lower	Upper
117	100	
82	53.9	44.6 67.0
119	32.2	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.346 min Scan# 1907
Delta R.T. -0.006 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion:152	Resp:	767
Ion Ratio	Lower	Upper
152	100	
115	61.8	29.0 87.0
150	184.9	0.0 347.2

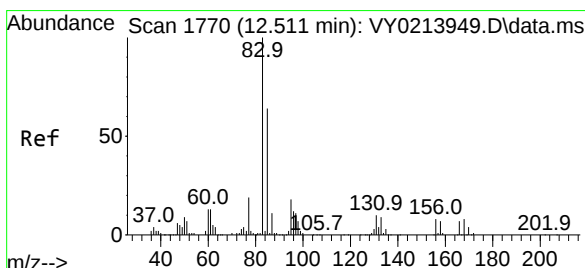
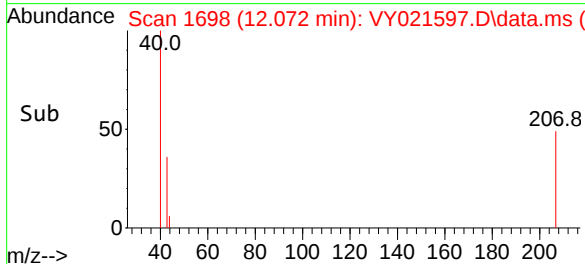
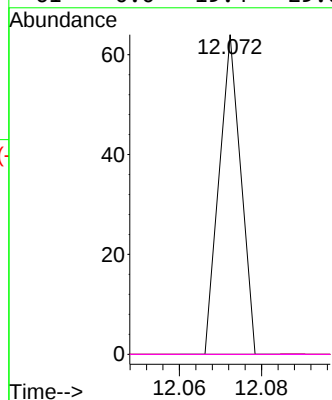
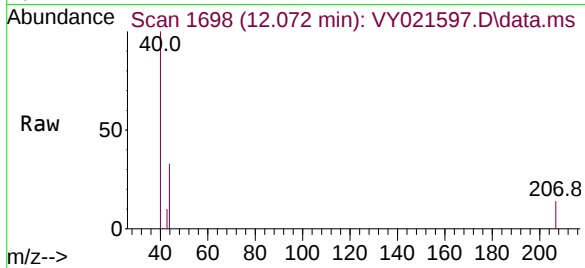




#74
N-amy1 acetate
Concen: 1.753 ug/l
RT: 12.072 min Scan# 1764
Delta R.T. 0.000 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

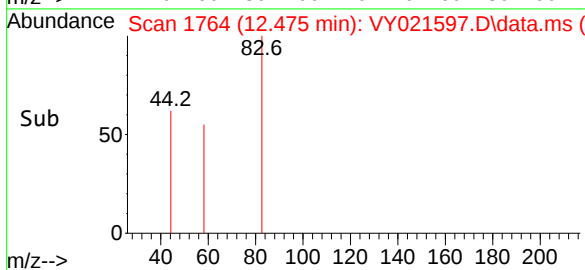
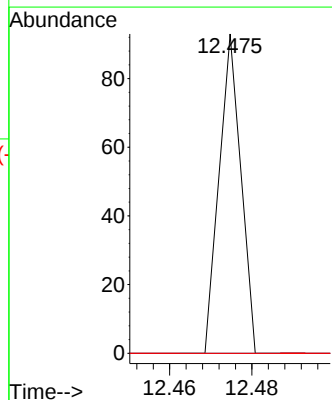
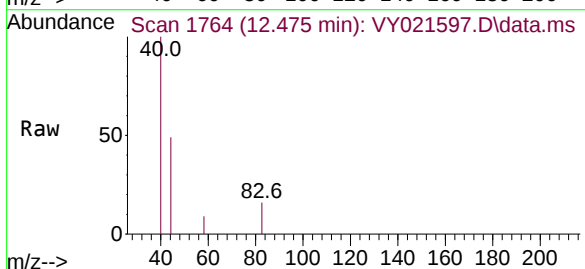
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

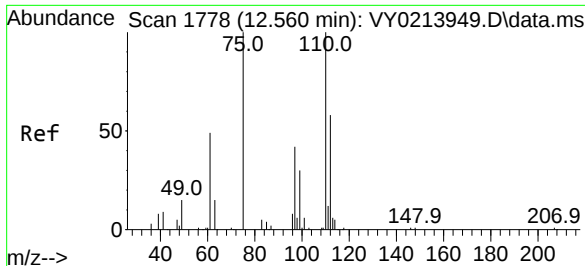
Tgt Ion: 43	Resp: 23
Ion Ratio	Lower Upper
43 100	
70 0.0	34.6 51.8#
55 0.0	21.1 31.7#
61 0.0	19.4 29.0#



#75
1,1,2,2-Tetrachloroethane
Concen: 3.189 ug/l
RT: 12.475 min Scan# 1764
Delta R.T. -0.036 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 83	Resp:	34	
Ion Ratio	Lower	Upper	
83 100			
131 0.0	5.3	16.1#	
85 0.0	31.9	95.5#	

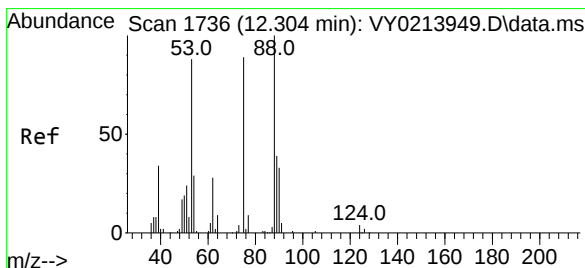
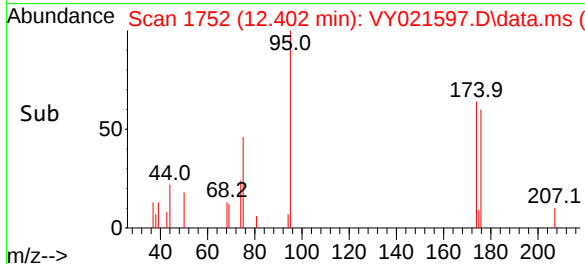
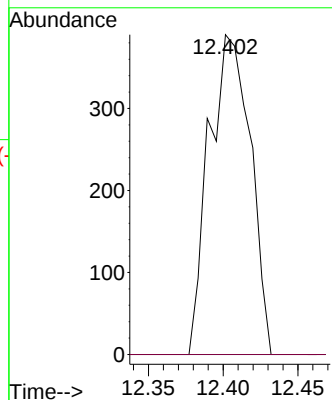
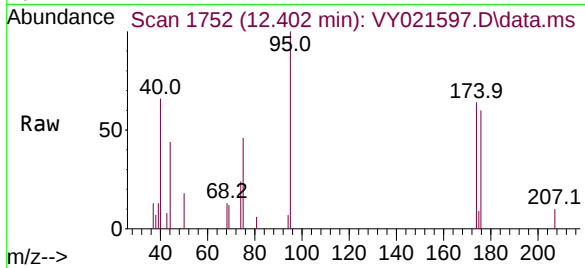




#76
1,2,3-Trichloropropane
Concen: 97.297 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.158 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

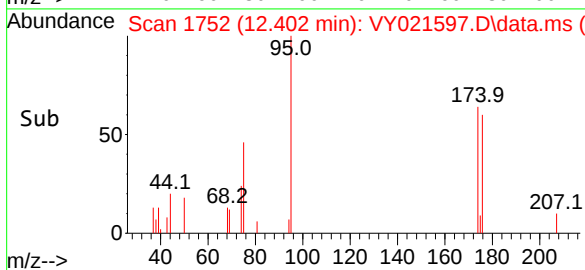
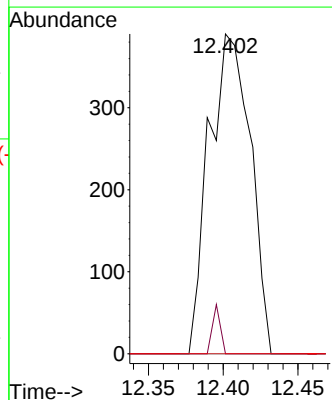
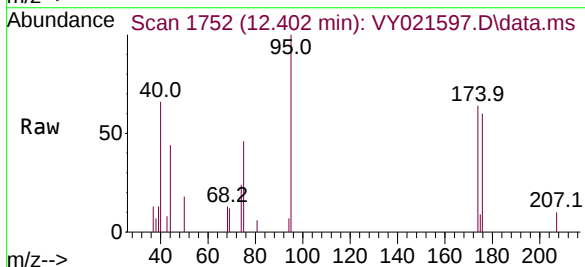
Instrument :
MSVOA_Y
ClientSampleId :
TP-1

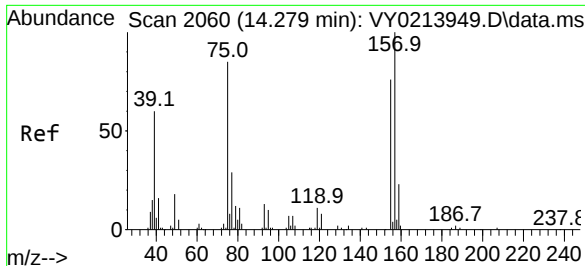
Tgt Ion: 75 Resp: 752
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 221.186 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. 0.098 min
Lab File: VY021597.D
Acq: 21 Mar 2025 14:15

Tgt Ion: 75 Resp: 752
Ion Ratio Lower Upper
75 100
53 2.9 81.0 121.4#
89 0.0 36.9 55.3#





#92

1,2-Dibromo-3-Chloropropane

Concen: 32.559 ug/l

RT: 14.340 min Scan# 2060

Delta R.T. 0.061 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Instrument :

MSVOA_Y

ClientSampleId :

TP-1

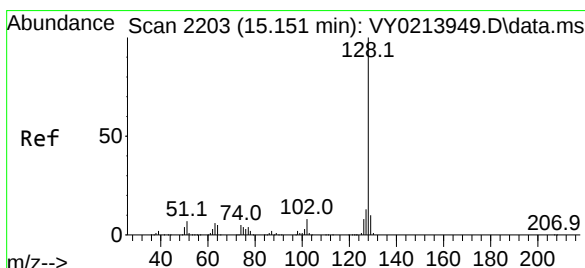
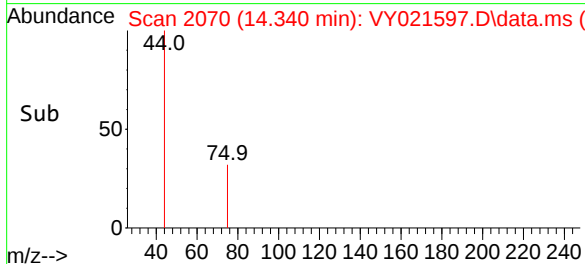
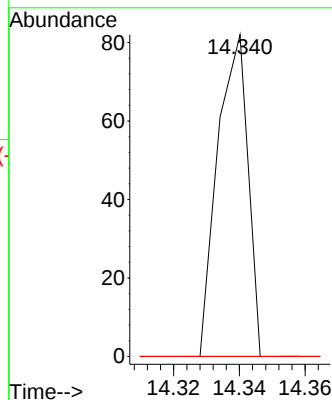
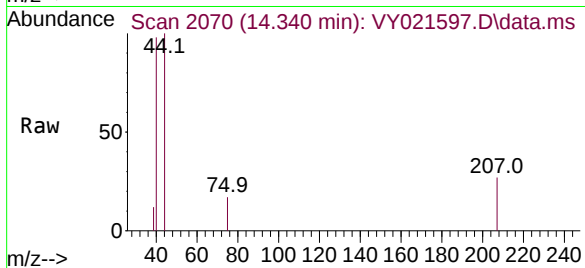
Tgt Ion: 75 Resp: 52

Ion Ratio Lower Upper

75 100

155 0.0 43.5 130.5#

157 0.0 54.4 163.2#



#95

Naphthalene

Concen: 48.477 ug/l

RT: 15.145 min Scan# 2202

Delta R.T. -0.006 min

Lab File: VY021597.D

Acq: 21 Mar 2025 14:15

Tgt Ion: 128 Resp: 1075

Ion Ratio Lower Upper

128 100

127 10.7 10.6 15.8

129 3.3 8.6 13.0#

