

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060123\
 Data File : VY013970.D
 Acq On : 01 Jun 2023 17:38
 Operator : KP/MD
 Sample : 02983-05
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 18 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB24A

Quant Time: Jun 02 07:28:32 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060123S.M
 Quant Title : SW846 8260
 QLast Update : Fri Jun 02 07:00:14 2023
 Response via : Initial Calibration

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

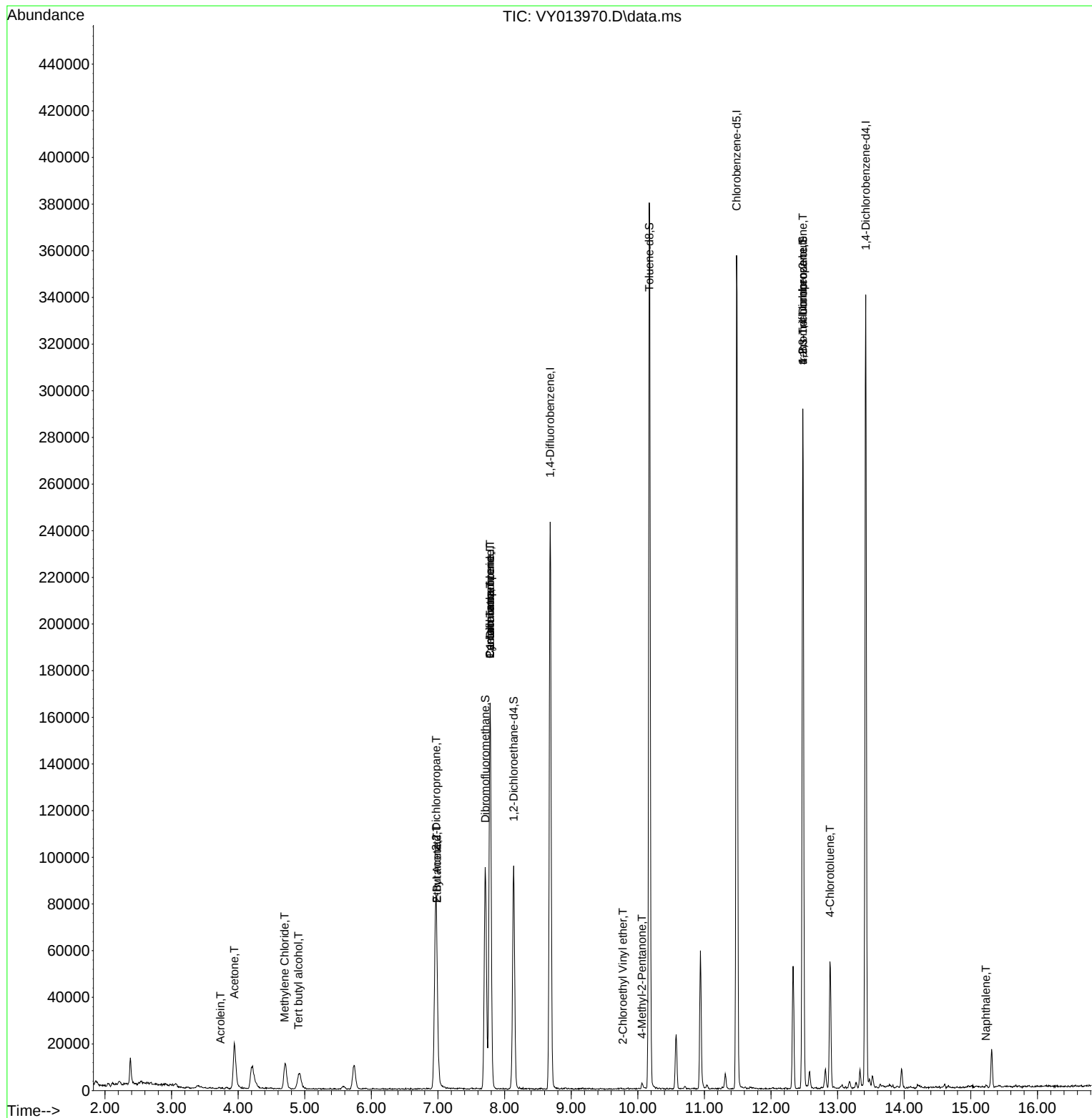
Internal Standards						
1) Pentafluorobenzene	7.783	168	126187	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	201798	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	188558	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	86730	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	76924	46.051	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 92.100%			
35) Dibromofluoromethane	7.710	113	65136	50.790	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 101.580%			
50) Toluene-d8	10.173	98	244628	50.008	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.020%			
62) 4-Bromofluorobenzene	12.477	95	76763	46.029	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 92.060%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	4.905	59	2908	8.471	ug/l #	94
13) Acrolein	3.735	56	583	3.708	ug/l #	24
16) Acetone	3.942	43	35260	61.697	ug/l	93
20) Methylene Chloride	4.698	84	8039	1.311	ug/l #	74
25) 2-Butanone	6.984	43	10559	14.831	ug/l	94
26) 2,2-Dichloropropane	6.972	77	6130	2.652	ug/l #	54
31) Cyclohexane	7.783	56	3058	1.520	ug/l #	1
36) 1,1-Dichloropropene	7.783	75	9722	5.321	ug/l #	51
37) Ethyl Acetate	6.984	43	10559	6.629	ug/l #	71
38) Carbon Tetrachloride	7.783	117	12751	6.228	ug/l #	16
51) 4-Methyl-2-Pentanone	10.063	43	1949	1.286	ug/l	98
58) 2-Chloroethyl Vinyl ether	9.776	63	21	23.128	ug/l #	48
76) 1,2,3-Trichloropropane	12.477	75	43165	36.984	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	43165	78.462	ug/l #	11
82) 4-Chlorotoluene	12.886	91	7352	1.683	ug/l #	40
95) Naphthalene	15.227	128	420	3.976	ug/l #	62

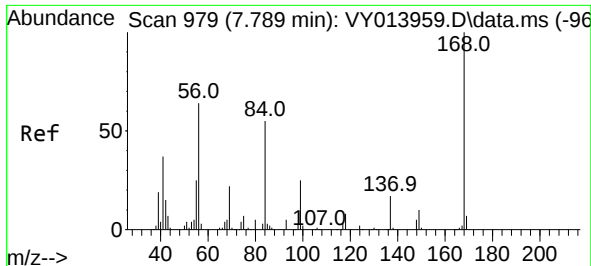
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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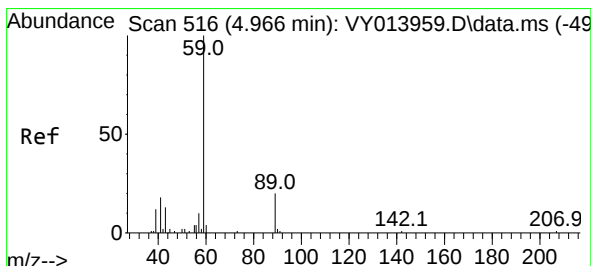
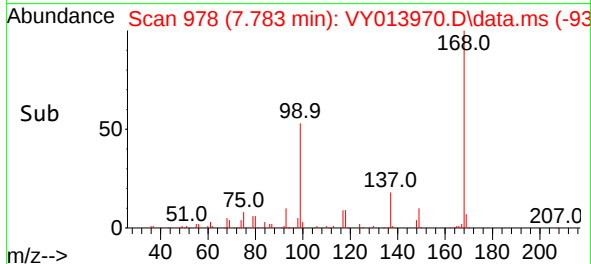
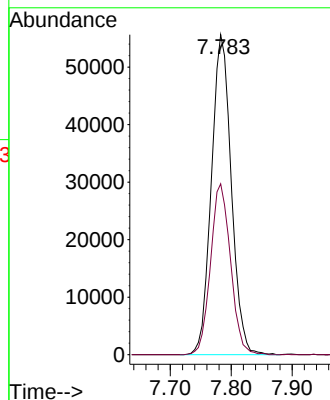
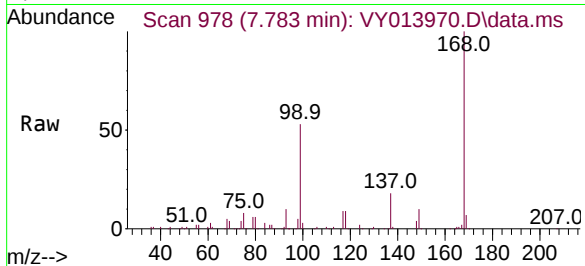




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

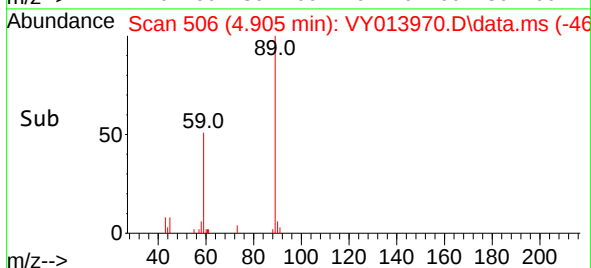
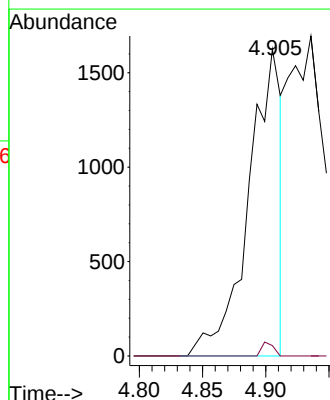
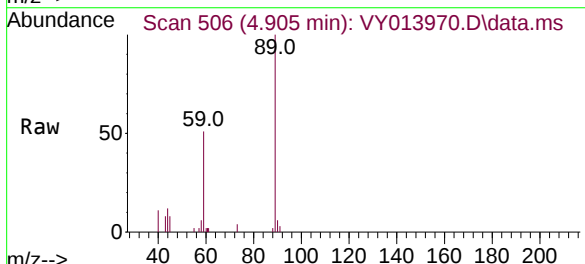
Instrument :
MSVOA_Y
ClientSampleId :
SB24A

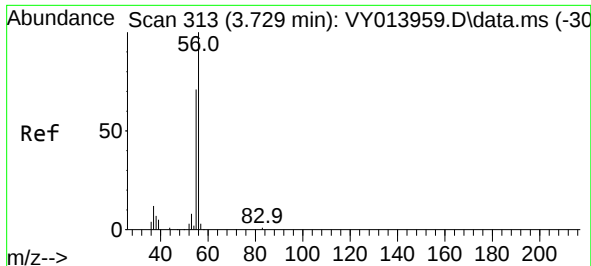
Tgt Ion:168 Resp: 126187
Ion Ratio Lower Upper
168 100
99 53.4 43.4 65.0



#11
Tert butyl alcohol
Concen: 8.471 ug/l
RT: 4.905 min Scan# 506
Delta R.T. -0.061 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

Tgt Ion: 59 Resp: 2908
Ion Ratio Lower Upper
59 100
57 1.6 3.0 4.4#





#13

Acrolein

Concen: 3.708 ug/l

RT: 3.735 min Scan# 31

Delta R.T. 0.006 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

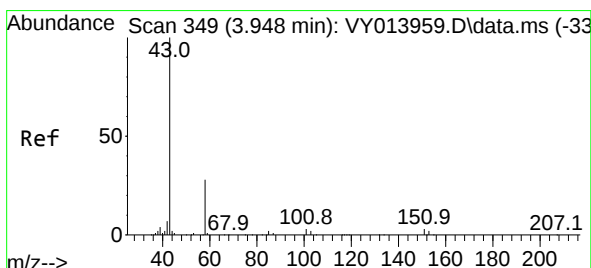
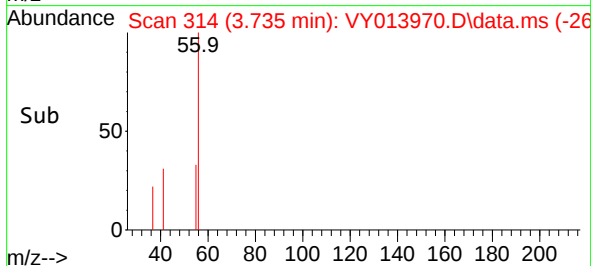
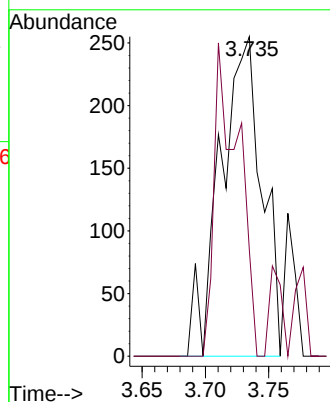
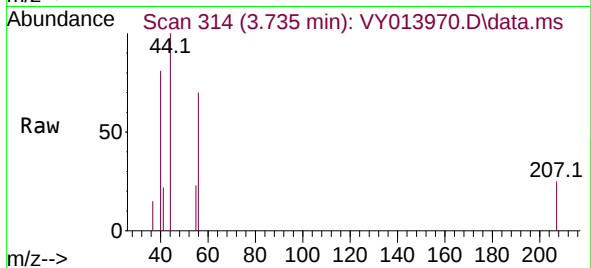
SB24A

Tgt Ion: 56 Resp: 583

Ion Ratio Lower Upper

56 100

55 8.1 57.0 85.4#



#16

Acetone

Concen: 61.697 ug/l

RT: 3.942 min Scan# 348

Delta R.T. -0.006 min

Lab File: VY013970.D

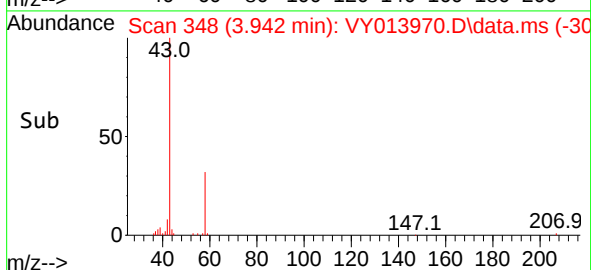
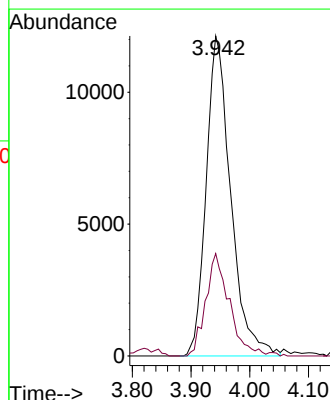
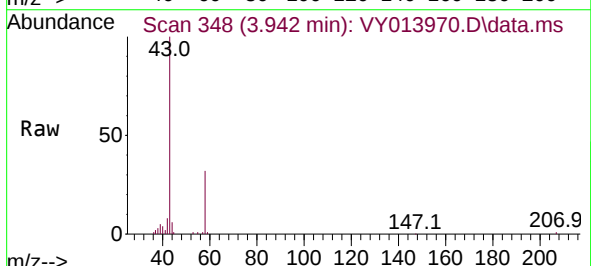
Acq: 01 Jun 2023 17:38

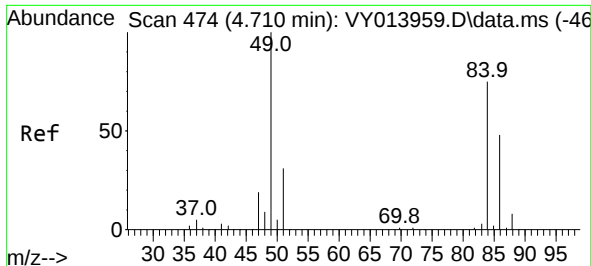
Tgt Ion: 43 Resp: 35260

Ion Ratio Lower Upper

43 100

58 32.0 22.7 34.1

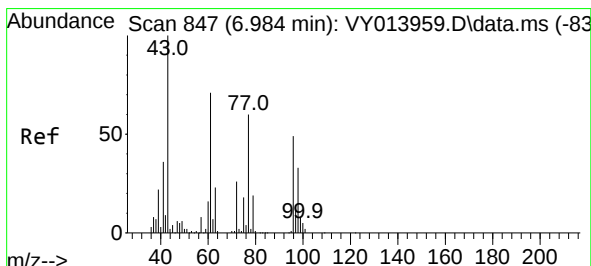
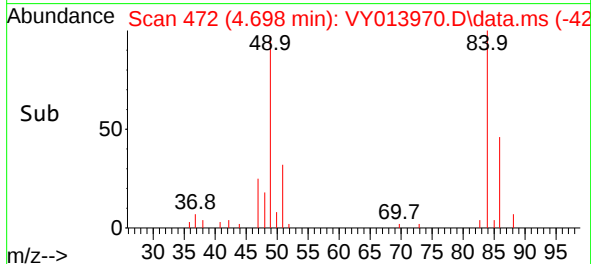
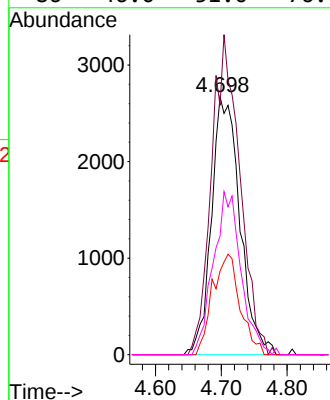
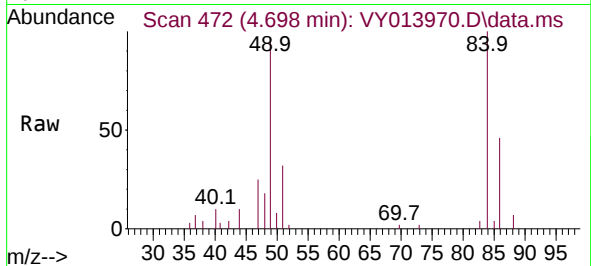




#20
Methylene Chloride
Concen: 1.311 ug/l
RT: 4.698 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

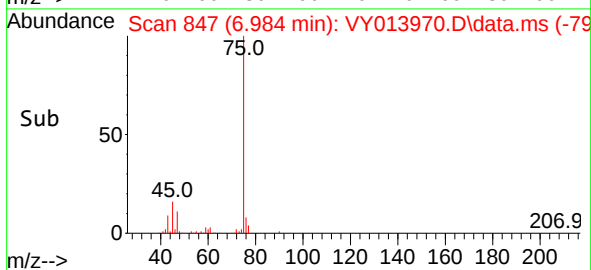
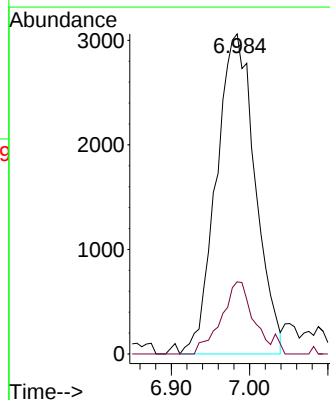
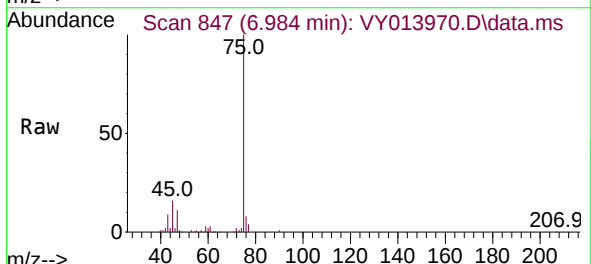
Instrument :
MSVOA_Y
ClientSampleId :
SB24A

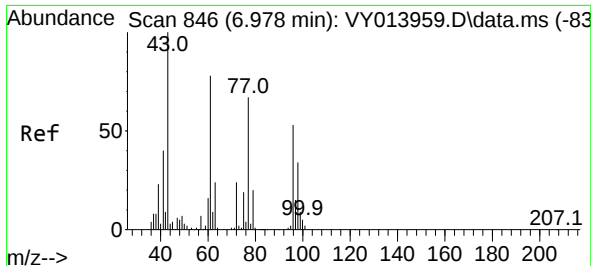
Tgt Ion:	84	Resp:	8039
Ion	Ratio	Lower	Upper
84	100		
49	96.7	106.9	160.3#
51	32.4	33.2	49.8#
86	46.0	51.0	76.6#



#25
2-Butanone
Concen: 14.831 ug/l
RT: 6.984 min Scan# 847
Delta R.T. -0.000 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

Tgt Ion:	43	Resp:	10559
Ion	Ratio	Lower	Upper
43	100		
72	22.5	20.5	30.7





#26

2,2-Dichloropropane

Concen: 2.652 ug/l

RT: 6.972 min Scan# 846

Delta R.T. -0.006 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

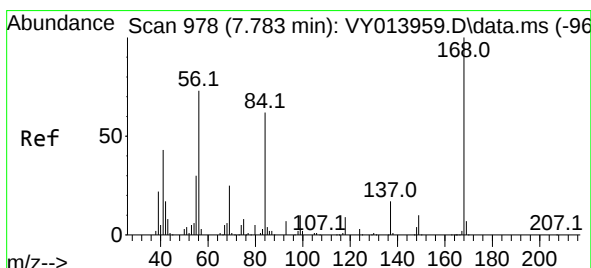
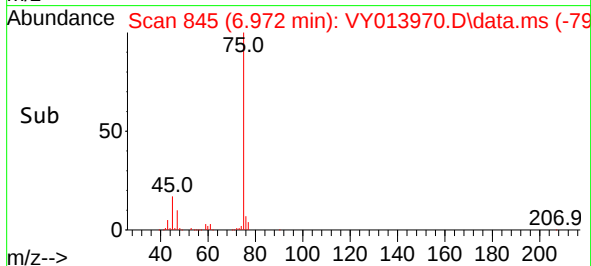
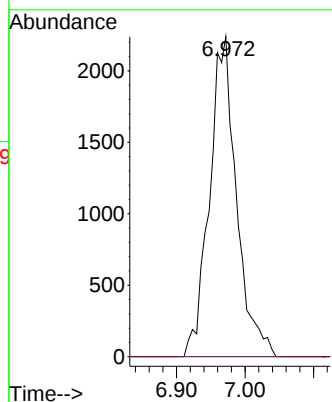
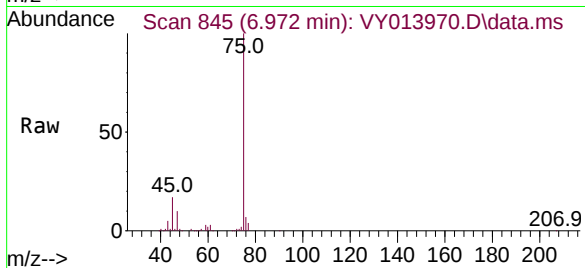
SB24A

Tgt Ion: 77 Resp: 6130

Ion Ratio Lower Upper

77 100

97 0.0 10.9 32.9#



#31

Cyclohexane

Concen: 1.520 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.000 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

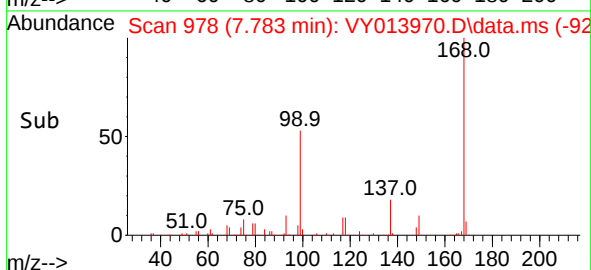
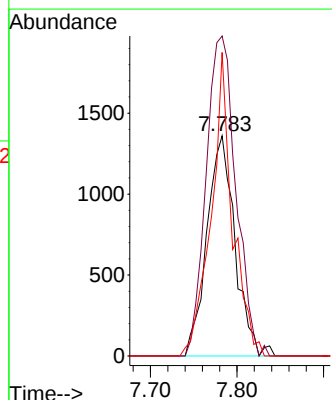
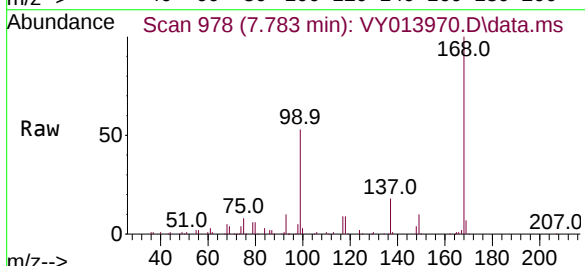
Tgt Ion: 56 Resp: 3058

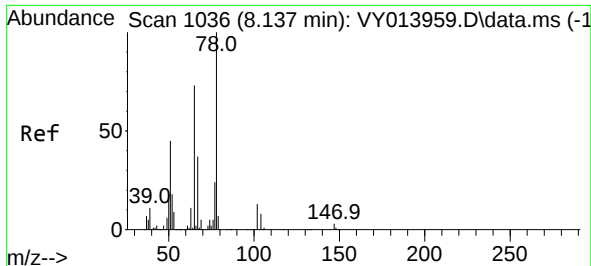
Ion Ratio Lower Upper

56 100

69 145.4 27.8 41.6#

84 137.9 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 46.051 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.000 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

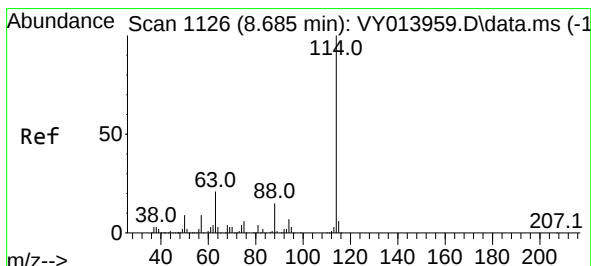
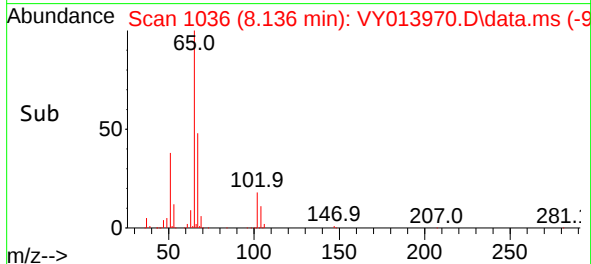
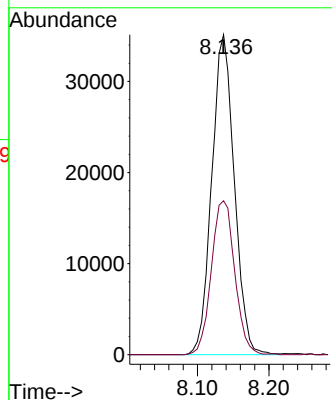
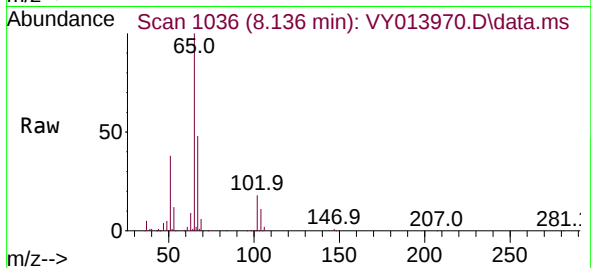
SB24A

Tgt Ion: 65 Resp: 76924

Ion Ratio Lower Upper

65 100

67 49.9 0.0 101.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

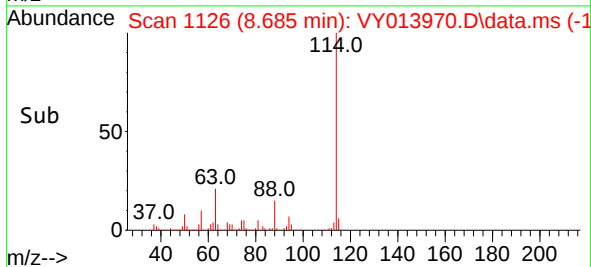
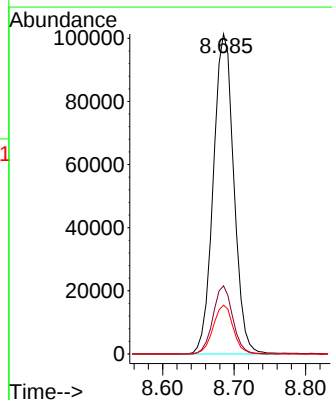
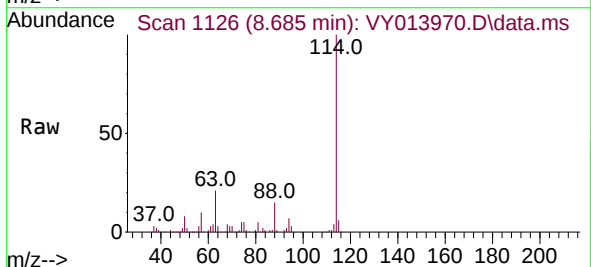
Tgt Ion: 114 Resp: 201798

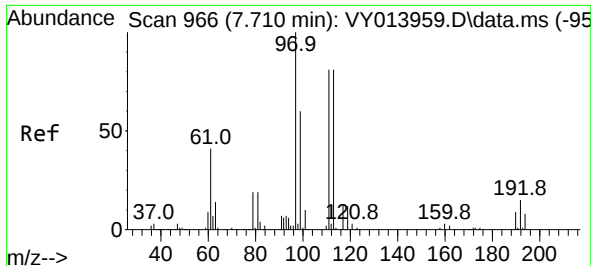
Ion Ratio Lower Upper

114 100

63 21.3 0.0 42.4

88 15.3 0.0 30.6

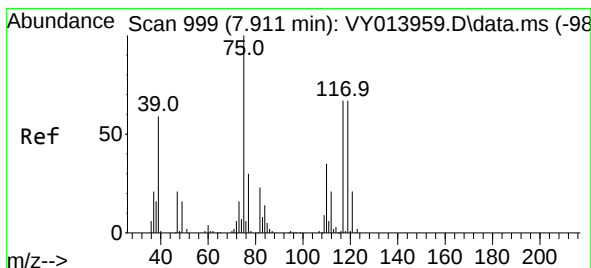
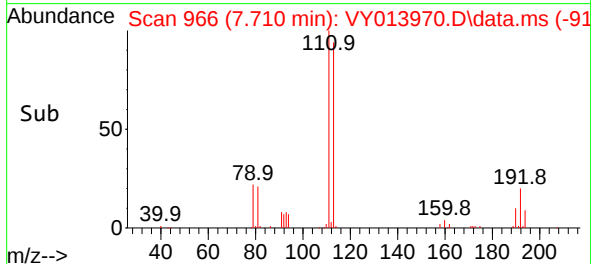
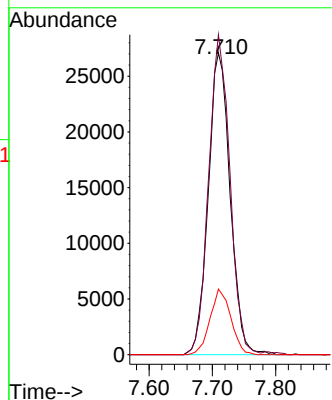
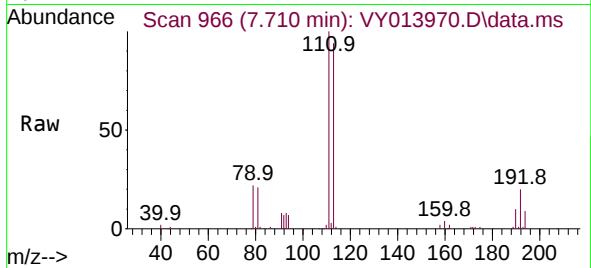




#35
Dibromofluoromethane
Concen: 50.790 ug/l
RT: 7.710 min Scan# 911
Delta R.T. -0.000 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

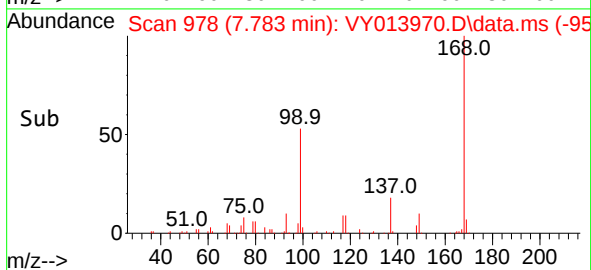
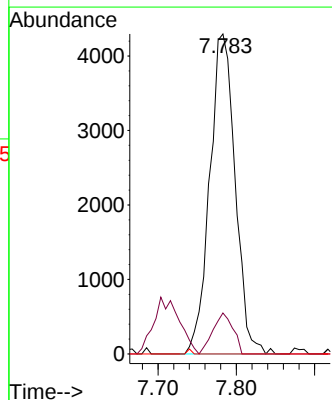
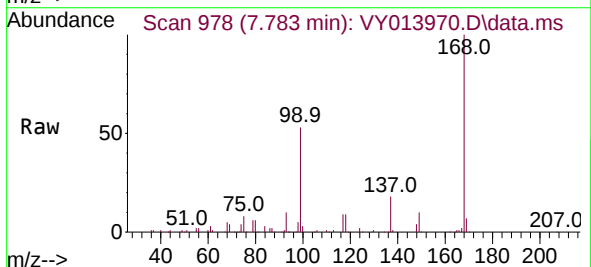
Instrument :
MSVOA_Y
ClientSampleId :
SB24A

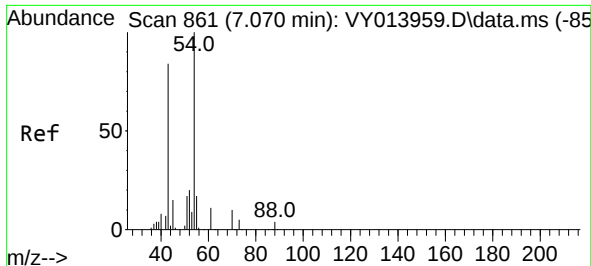
Tgt Ion:113 Resp: 65136
Ion Ratio Lower Upper
113 100
111 102.9 81.3 121.9
192 20.6 16.9 25.3



#36
1,1-Dichloropropene
Concen: 5.321 ug/l
RT: 7.783 min Scan# 978
Delta R.T. -0.128 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

Tgt Ion: 75 Resp: 9722
Ion Ratio Lower Upper
75 100
110 10.1 17.8 53.5#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 6.629 ug/l

RT: 6.984 min Scan# 84

Delta R.T. -0.086 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

SB24A

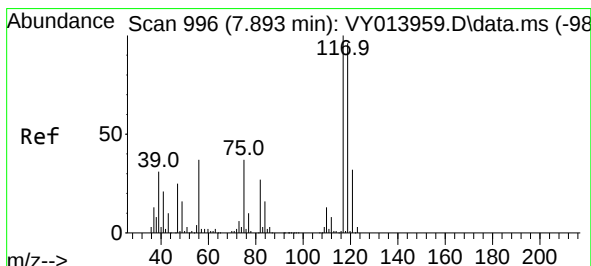
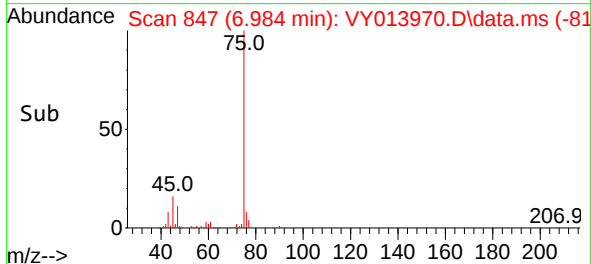
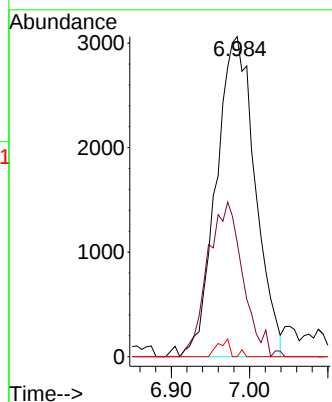
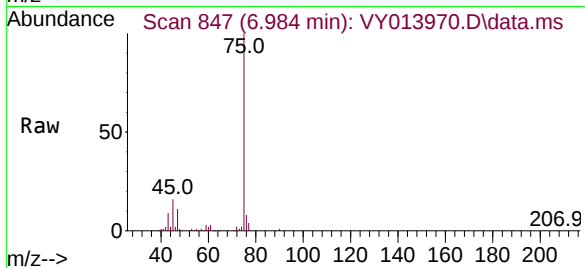
Tgt Ion: 43 Resp: 10559

Ion Ratio Lower Upper

43 100

61 0.0 10.1 15.1#

70 0.2 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 6.228 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.110 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

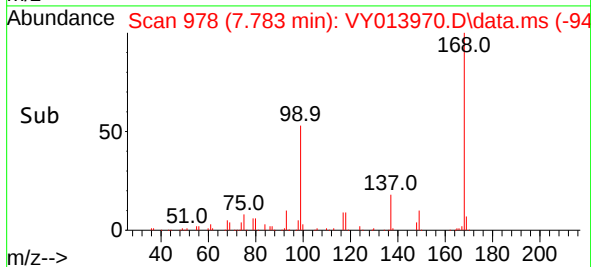
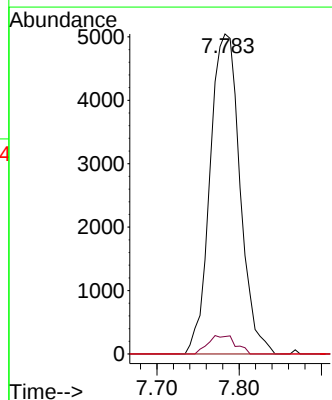
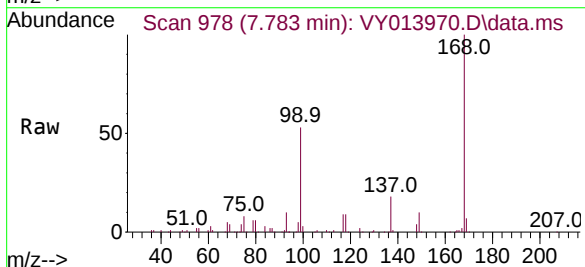
Tgt Ion: 117 Resp: 12751

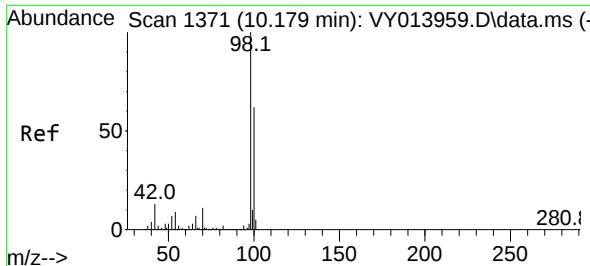
Ion Ratio Lower Upper

117 100

119 5.5 76.4 114.6#

121 0.0 25.8 38.6#

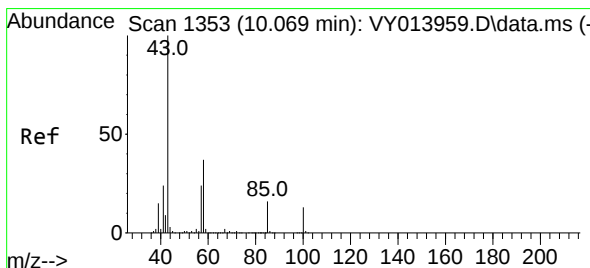
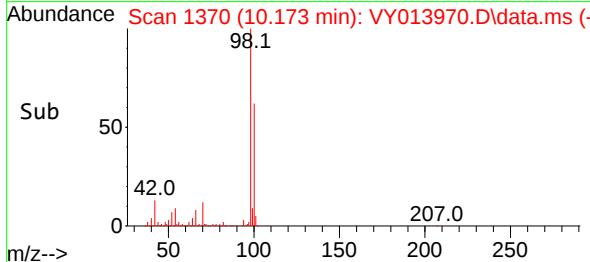
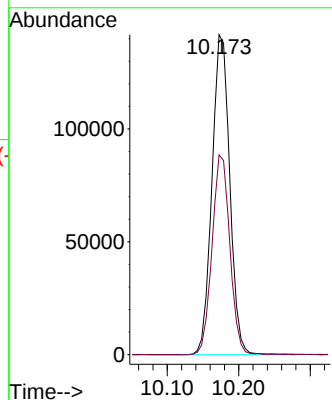
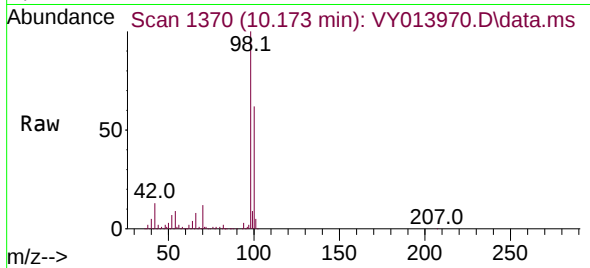




#50
Toluene-d8
Concen: 50.008 ug/l
RT: 10.173 min Scan# 11
Delta R.T. -0.006 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

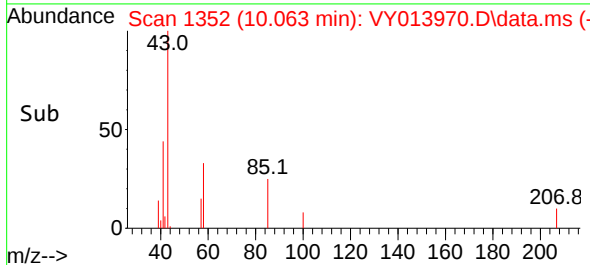
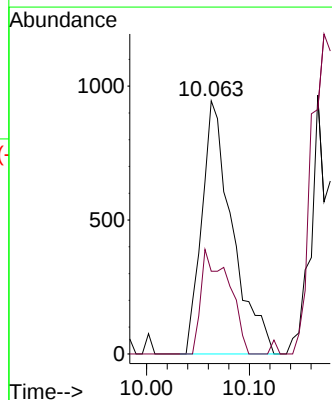
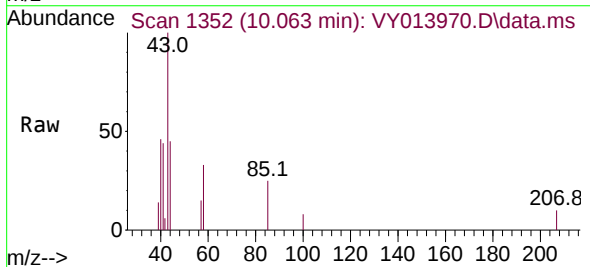
Instrument :
MSVOA_Y
ClientSampleId :
SB24A

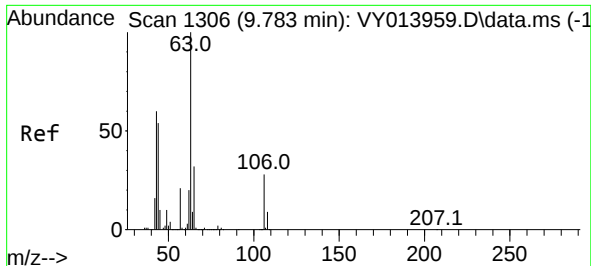
Tgt Ion: 98 Resp: 244628
Ion Ratio Lower Upper
98 100
100 62.5 50.1 75.1



#51
4-Methyl-2-Pentanone
Concen: 1.286 ug/l
RT: 10.063 min Scan# 1352
Delta R.T. -0.006 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

Tgt Ion: 43 Resp: 1949
Ion Ratio Lower Upper
43 100
58 37.5 29.0 43.6

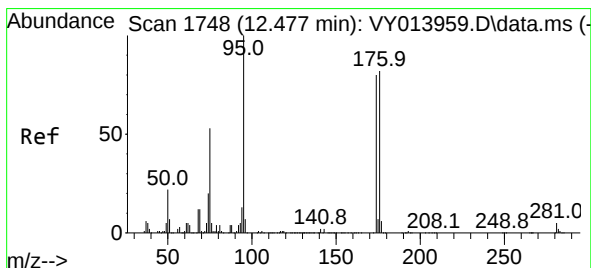
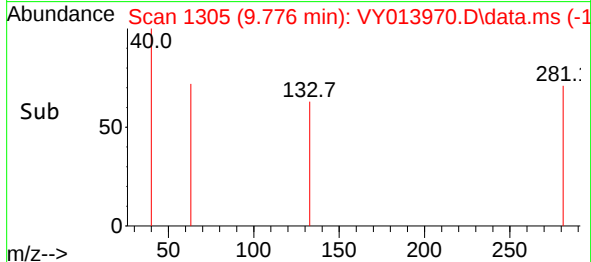
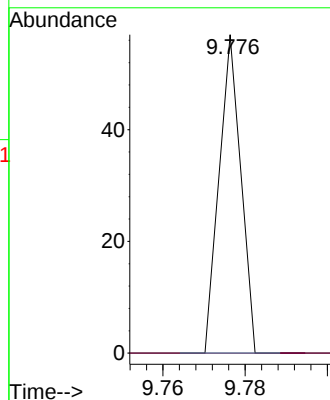
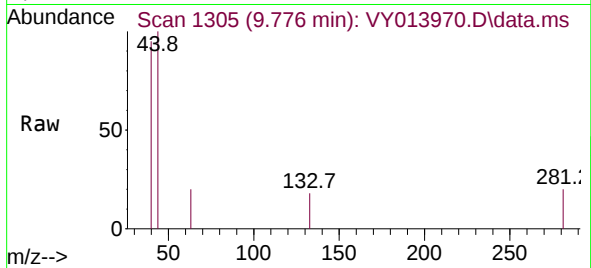




#58
2-Chloroethyl Vinyl ether
Concen: 23.128 ug/l
RT: 9.776 min Scan# 11
Delta R.T. -0.007 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

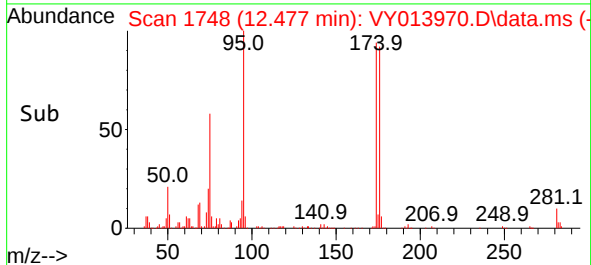
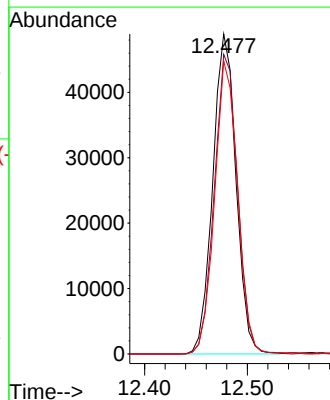
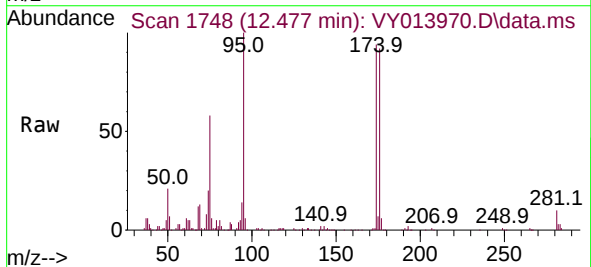
Instrument :
MSVOA_Y
ClientSampleId :
SB24A

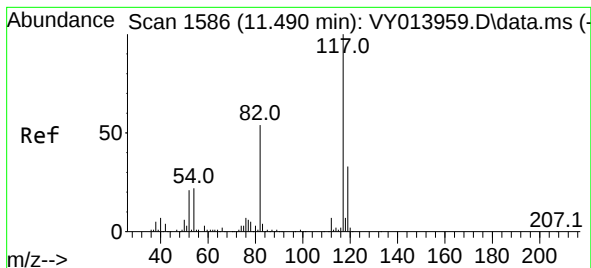
Tgt Ion: 63 Resp: 21
Ion Ratio Lower Upper
63 100
106 0.0 21.2 31.8#



#62
4-Bromofluorobenzene
Concen: 46.029 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.000 min
Lab File: VY013970.D
Acq: 01 Jun 2023 17:38

Tgt Ion: 95 Resp: 76763
Ion Ratio Lower Upper
95 100
174 94.0 0.0 178.2
176 90.9 0.0 173.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.483 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

SB24A

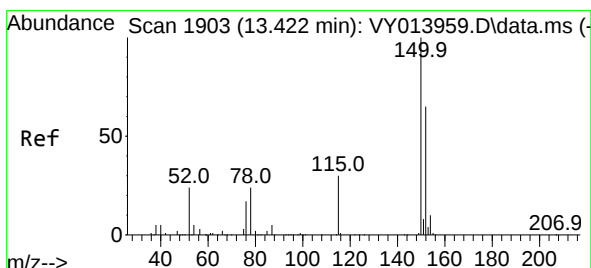
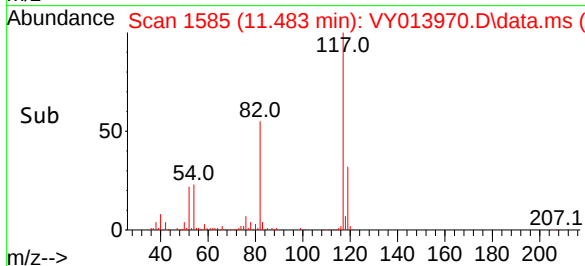
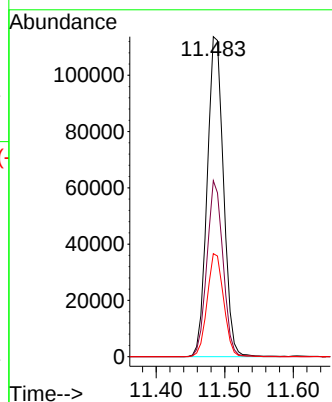
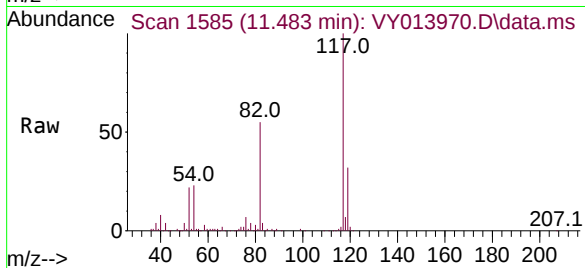
Tgt Ion:117 Resp: 188558

Ion Ratio Lower Upper

117 100

82 55.0 43.4 65.0

119 32.2 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.422 min Scan# 1903

Delta R.T. 0.000 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

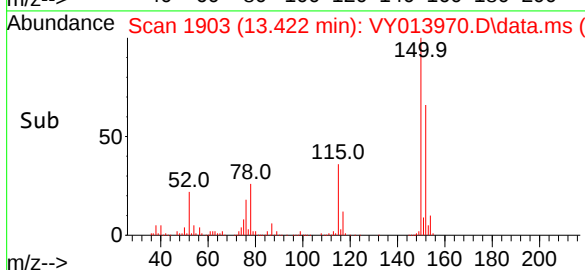
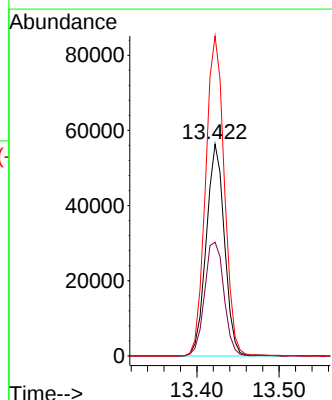
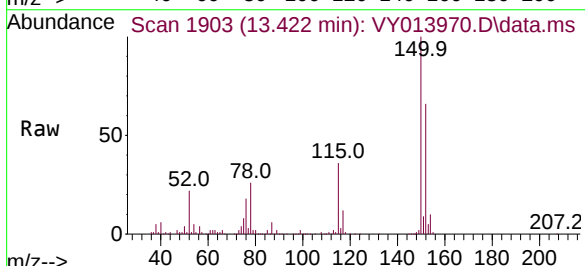
Tgt Ion:152 Resp: 86730

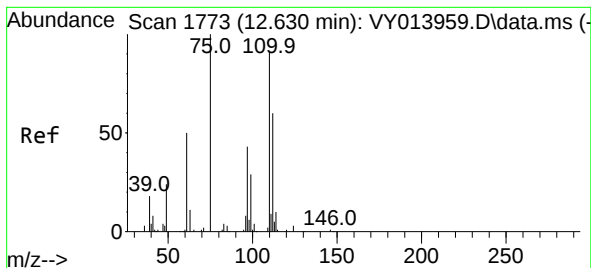
Ion Ratio Lower Upper

152 100

115 57.1 28.8 86.5

150 155.3 0.0 348.8





#76

1,2,3-Trichloropropane

Concen: 36.984 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. -0.153 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

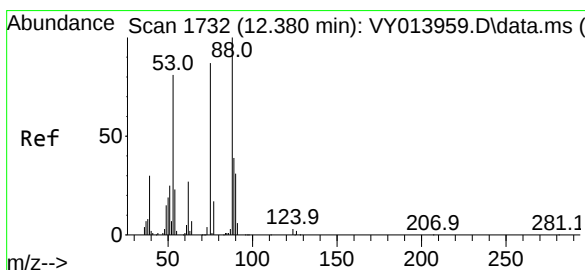
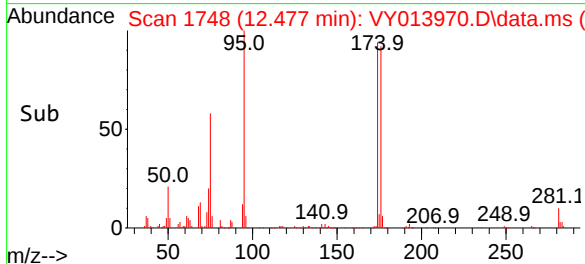
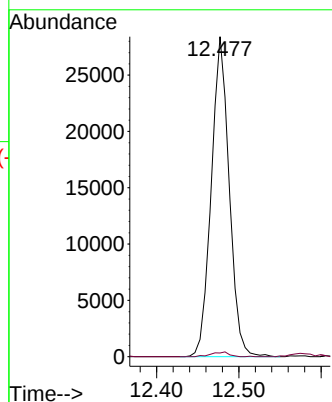
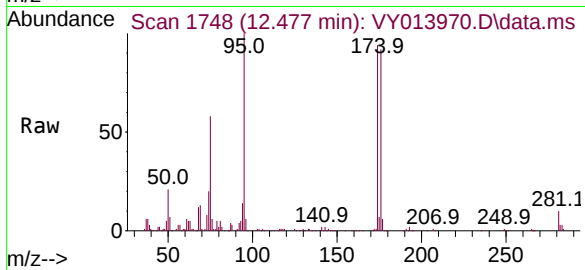
SB24A

Tgt Ion: 75 Resp: 43165

Ion Ratio Lower Upper

75 100

77 1.4 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene

Concen: 78.462 ug/l

RT: 12.477 min Scan# 1748

Delta R.T. 0.097 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

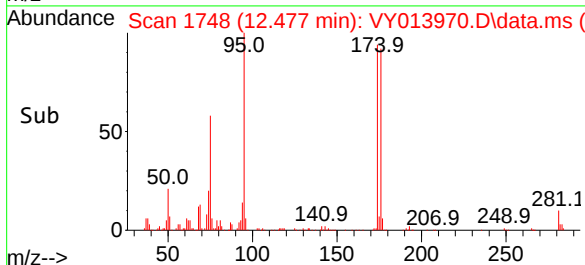
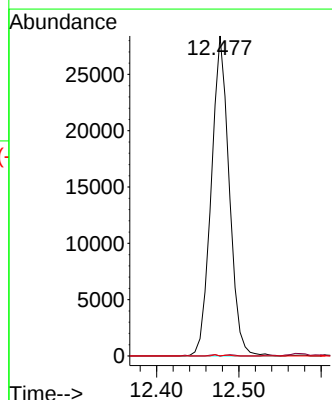
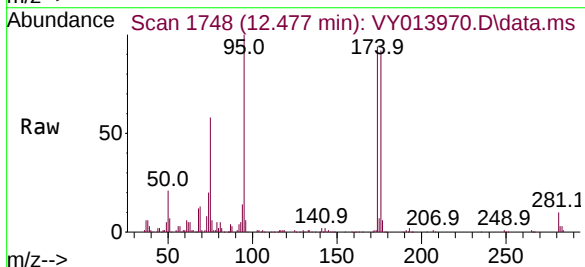
Tgt Ion: 75 Resp: 43165

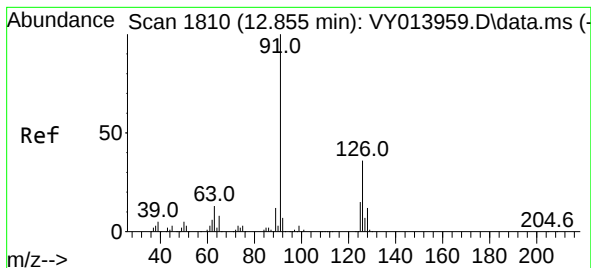
Ion Ratio Lower Upper

75 100

53 0.2 77.8 116.8#

89 0.1 37.4 56.0#





#82

4-Chlorotoluene

Concen: 1.683 ug/l

RT: 12.886 min Scan# 11

Delta R.T. 0.030 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Instrument :

MSVOA_Y

ClientSampleId :

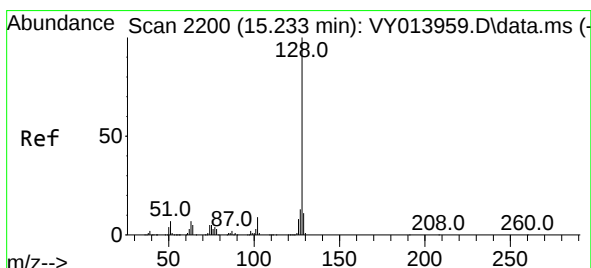
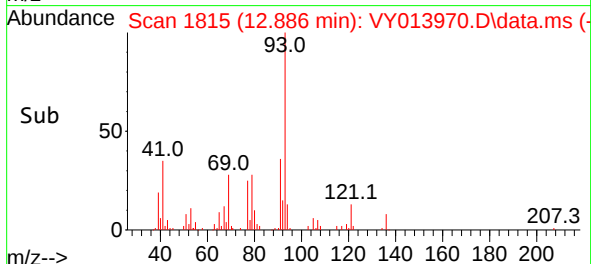
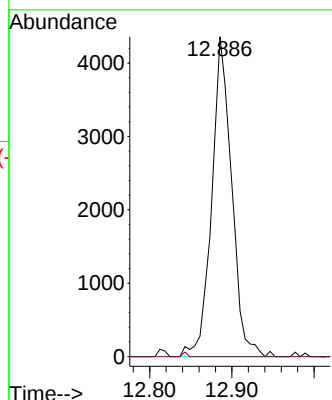
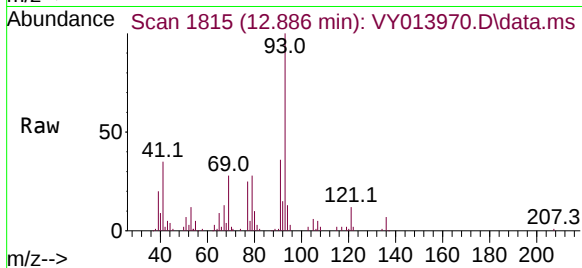
SB24A

Tgt Ion: 91 Resp: 7352

Ion Ratio Lower Upper

91 100

126 0.0 17.2 51.6#



#95

Naphthalene

Concen: 3.976 ug/l

RT: 15.227 min Scan# 2199

Delta R.T. -0.006 min

Lab File: VY013970.D

Acq: 01 Jun 2023 17:38

Tgt Ion: 128 Resp: 420

Ion Ratio Lower Upper

128 100

127 38.1 10.8 16.2#

129 7.4 8.6 13.0#

