

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY042423\
 Data File : VY013407.D
 Acq On : 24 Apr 2023 17:50
 Operator : KP/MD
 Sample : 02371-03
 Misc : 5.00g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-23-5.0-5.5

Quant Time: Apr 25 03:15:53 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042423S.M
 Quant Title : SW846 8260
 QLast Update : Tue Apr 25 02:39:58 2023
 Response via : Initial Calibration

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

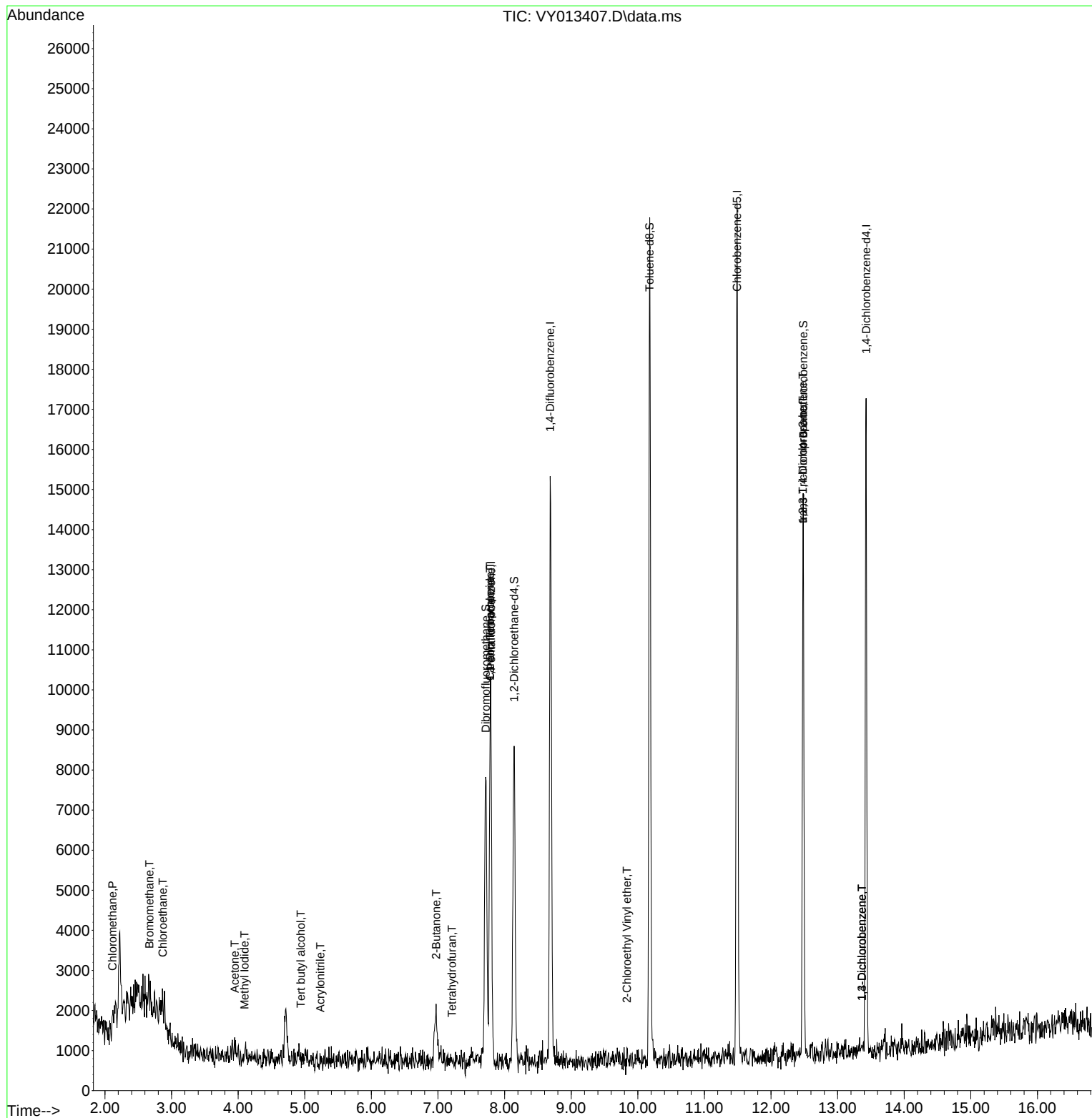
Internal Standards						
1) Pentafluorobenzene	7.795	168	7808	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	12290	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	11843	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	3986	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.142	65	6759	78.967	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 157.940%			
35) Dibromofluoromethane	7.716	113	5251	67.931	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 135.860%			
50) Toluene-d8	10.179	98	14449	52.545	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 105.100%			
62) 4-Bromofluorobenzene	12.483	95	4380	47.247	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 94.500%			
Target Compounds					Qvalue	
3) Chloromethane	2.113	50	193	1.940	ug/l #	42
5) Bromomethane	2.668	94	155	1.963	ug/l #	69
6) Chloroethane	2.869	64	76	1.110	ug/l #	44
10) Methyl Iodide	4.094	142	405	3.830	ug/l #	48
11) Tert butyl alcohol	4.942	59	63	7.168	ug/l #	89
13) Acrolein	3.747	56	20	Below Cal	#	16
15) Acrylonitrile	5.234	53	41	1.432	ug/l #	18
16) Acetone	3.948	43	524	15.546	ug/l	96
20) Methylene Chloride	4.710	84	810	Below Cal	#	92
25) 2-Butanone	6.972	43	116	2.714	ug/l #	47
29) Tetrahydrofuran	7.210	42	64	2.405	ug/l #	32
36) 1,1-Dichloropropene	7.783	75	599	4.669	ug/l #	40
38) Carbon Tetrachloride	7.783	117	711	5.288	ug/l #	11
58) 2-Chloroethyl Vinyl ether	9.837	63	48	1.232	ug/l #	45
76) 1,2,3-Trichloropropane	12.477	75	2118	39.400	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	2118	80.595	ug/l #	12
87) 1,3-Dichlorobenzene	13.367	146	151	1.085	ug/l #	25
88) 1,4-Dichlorobenzene	13.367	146	151	1.074	ug/l #	25

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

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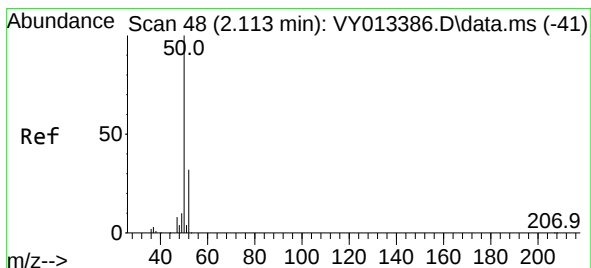
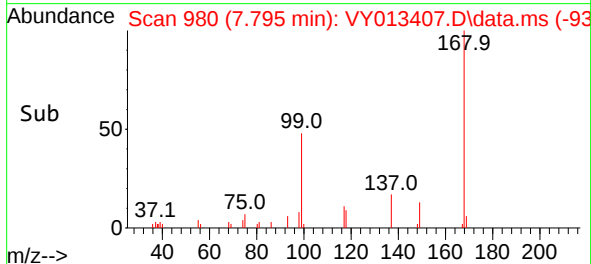
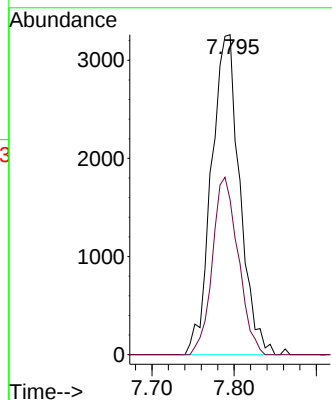
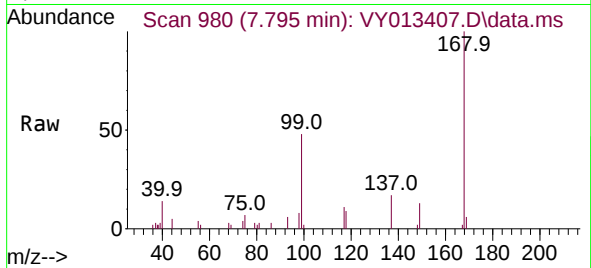




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.795 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

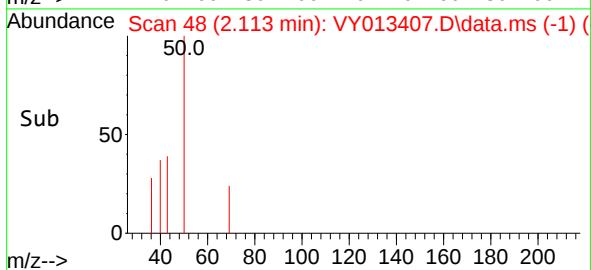
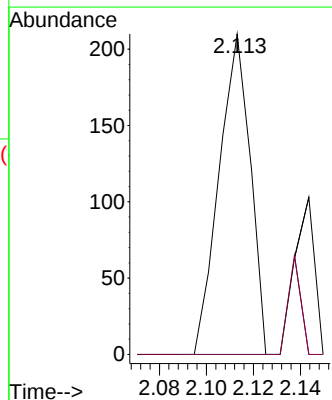
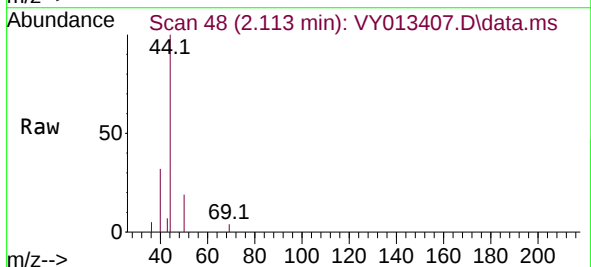
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

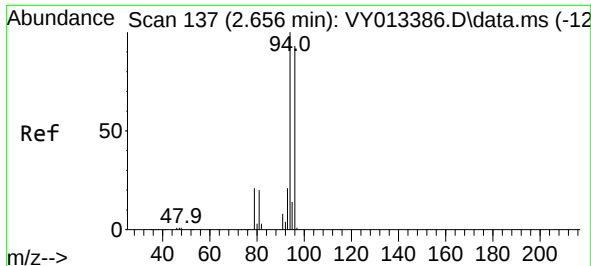
Tgt Ion:168 Resp: 7808
Ion Ratio Lower Upper
168 100
99 48.3 41.8 62.6



#3
Chloromethane
Concen: 1.940 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Tgt Ion: 50 Resp: 193
Ion Ratio Lower Upper
50 100
52 0.0 25.9 38.9#

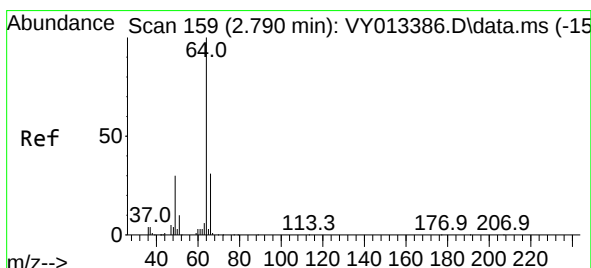
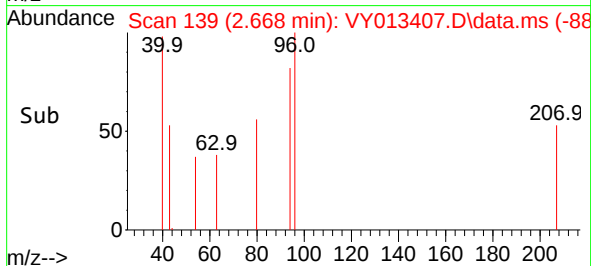
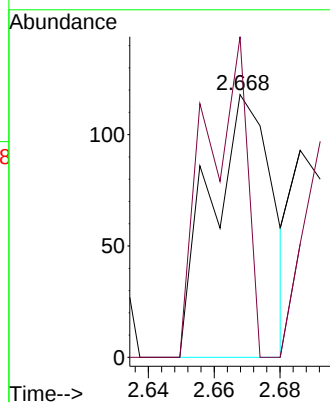
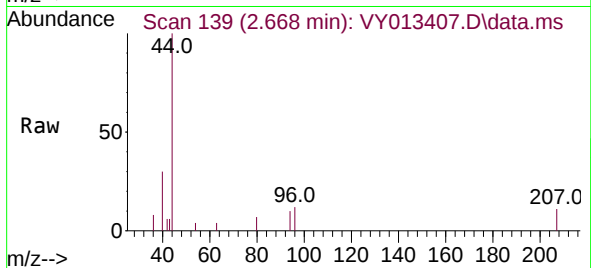




#5
Bromomethane
Concen: 1.963 ug/l
RT: 2.668 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

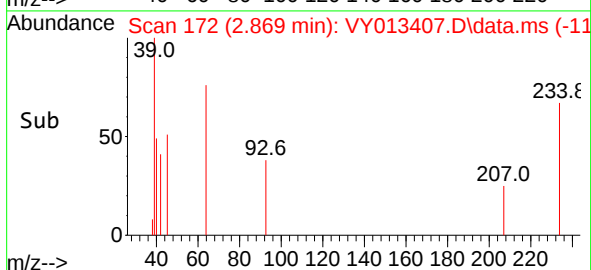
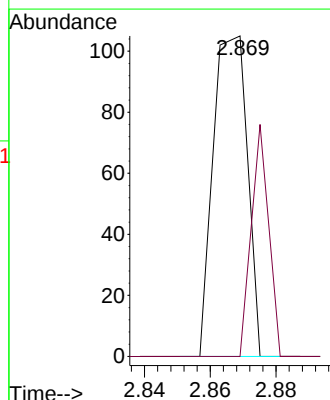
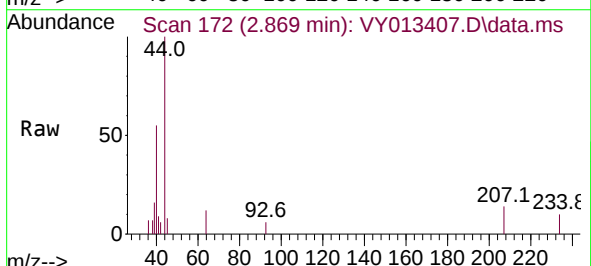
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

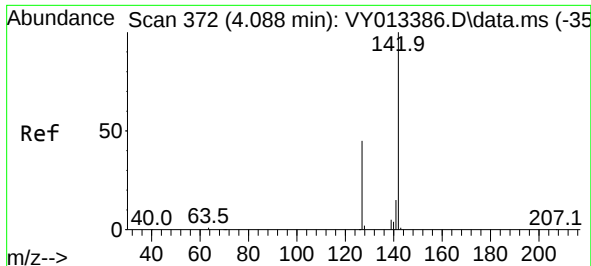
Tgt Ion: 94 Resp: 155
Ion Ratio Lower Upper
94 100
96 122.0 74.2 111.2#



#6
Chloroethane
Concen: 1.110 ug/l
RT: 2.869 min Scan# 172
Delta R.T. 0.079 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

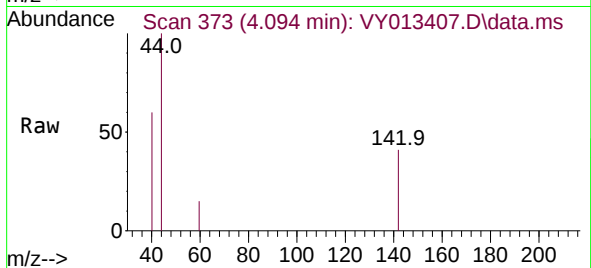
Tgt Ion: 64 Resp: 76
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



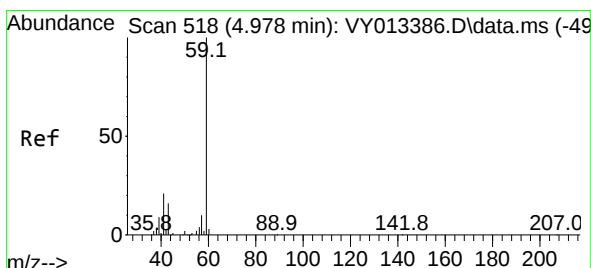
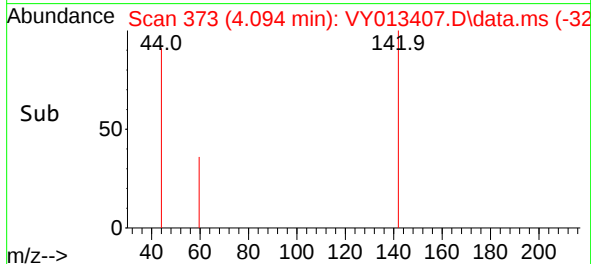
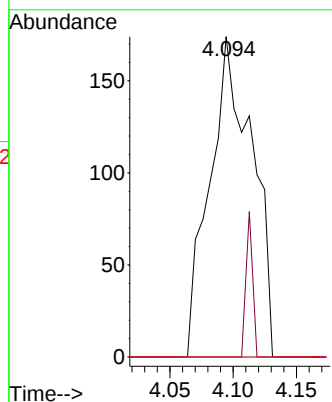


#10
Methyl Iodide
Concen: 3.830 ug/l
RT: 4.094 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

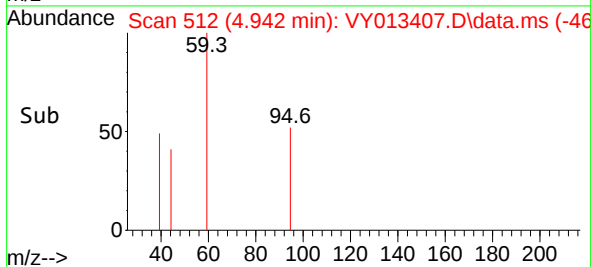
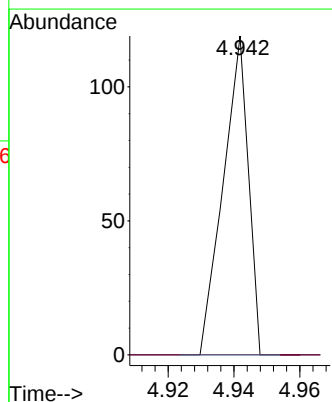
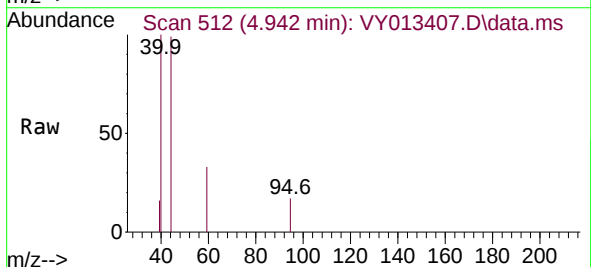


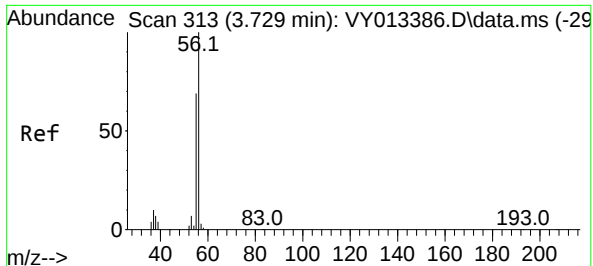
Tgt Ion:142 Resp: 405
Ion Ratio Lower Upper
142 100
127 7.2 36.1 54.1#
141 0.0 11.6 17.4#



#11
Tert butyl alcohol
Concen: 7.168 ug/l
RT: 4.942 min Scan# 512
Delta R.T. -0.036 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Tgt Ion: 59 Resp: 63
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.4#

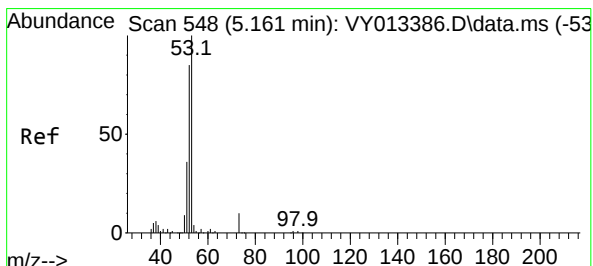
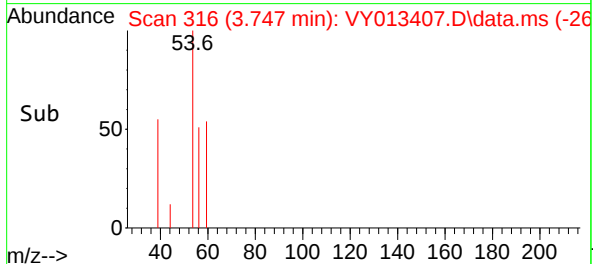
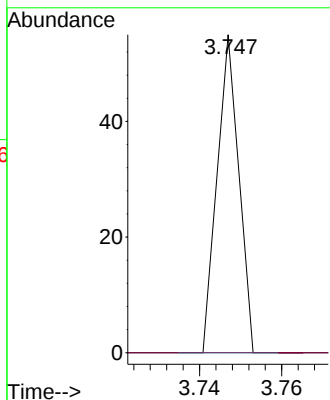
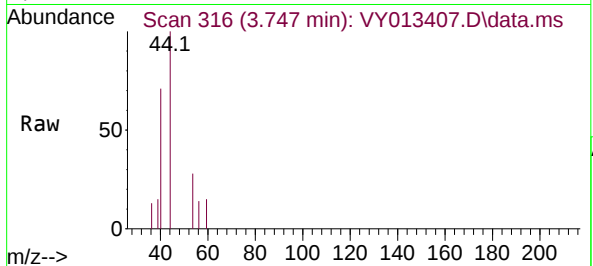




#13
Acrolein
Concen: Below Cal
RT: 3.747 min Scan# 313
Delta R.T. 0.018 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

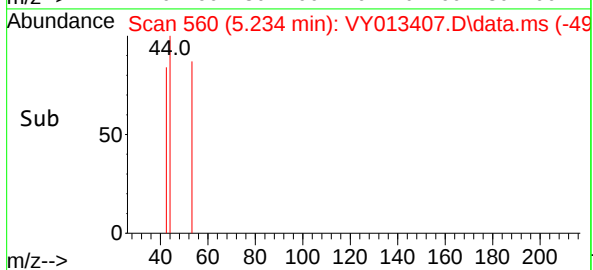
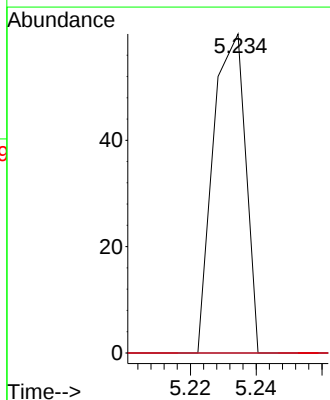
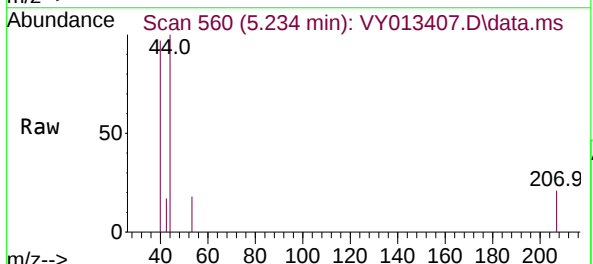
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

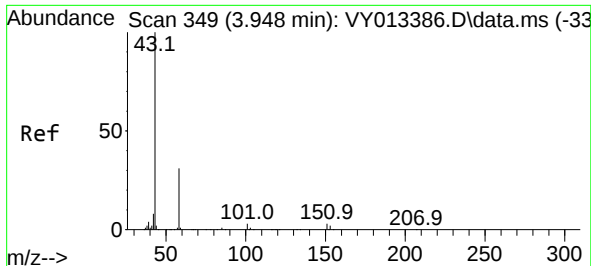
Tgt Ion: 56 Resp: 20
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#



#15
Acrylonitrile
Concen: 1.432 ug/l
RT: 5.234 min Scan# 560
Delta R.T. 0.073 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Tgt Ion: 53 Resp: 41
Ion Ratio Lower Upper
53 100
52 0.0 65.4 98.0#
51 0.0 29.3 43.9#





#16

Acetone

Concen: 15.546 ug/l

RT: 3.948 min Scan# 349

Delta R.T. 0.000 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

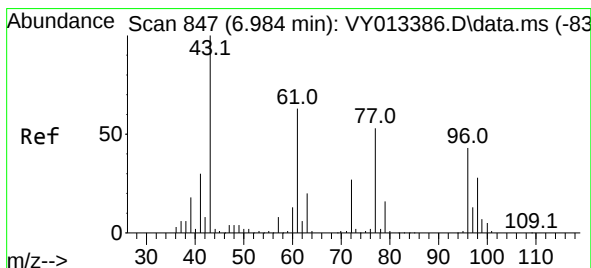
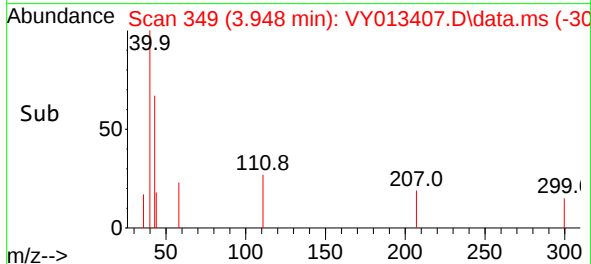
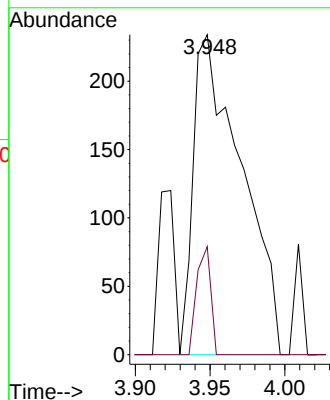
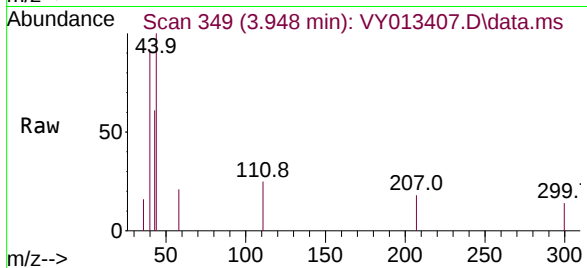
SB-23-5.0-5.5

Tgt Ion: 43 Resp: 524

Ion Ratio Lower Upper

43 100

58 33.8 25.4 38.0



#25

2-Butanone

Concen: 2.714 ug/l

RT: 6.972 min Scan# 845

Delta R.T. -0.012 min

Lab File: VY013407.D

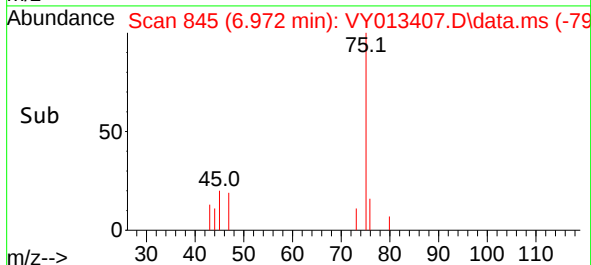
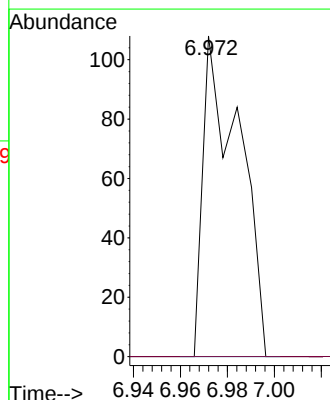
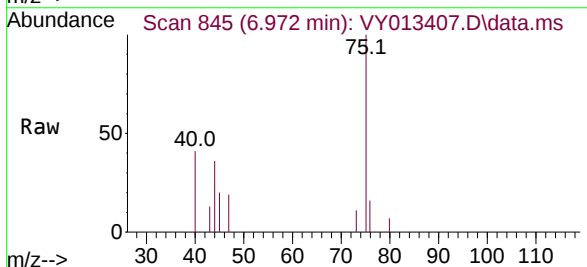
Acq: 24 Apr 2023 17:50

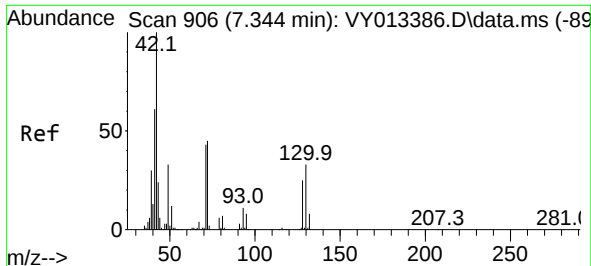
Tgt Ion: 43 Resp: 116

Ion Ratio Lower Upper

43 100

72 0.0 21.9 32.9#





#29

Tetrahydrofuran

Concen: 2.405 ug/l

RT: 7.210 min Scan# 81

Delta R.T. -0.134 min

Lab File: VY013407.D

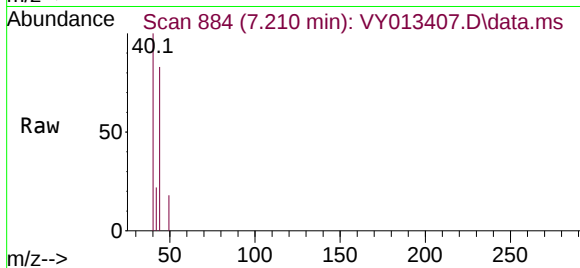
Acq: 24 Apr 2023 17:50

Instrument :

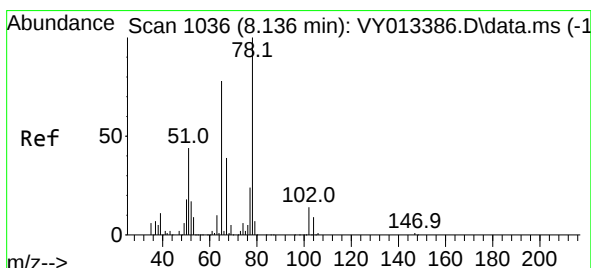
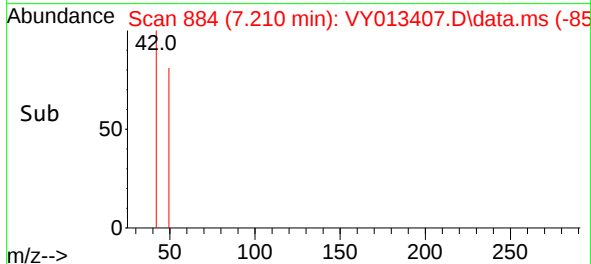
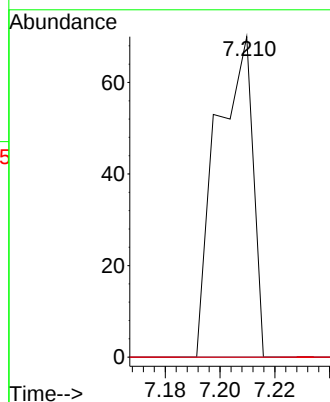
MSVOA_Y

ClientSampleId :

SB-23-5.0-5.5



Tgt Ion:	42	Resp:	64
Ion	Ratio	Lower	Upper
42	100		
72	0.0	35.9	53.9#
71	0.0	34.3	51.5#



#33

1,2-Dichloroethane-d4

Concen: 78.967 ug/l

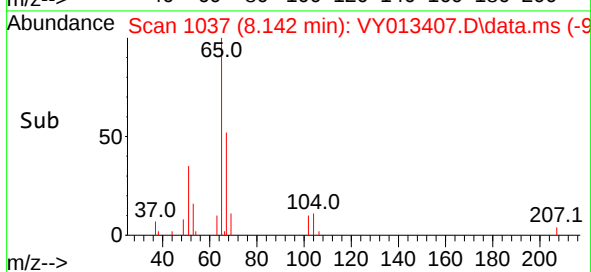
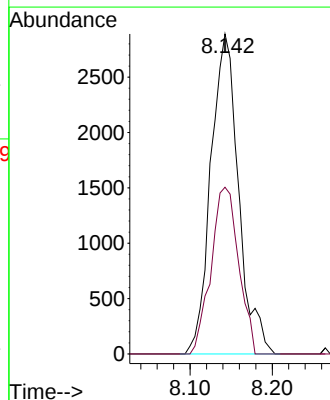
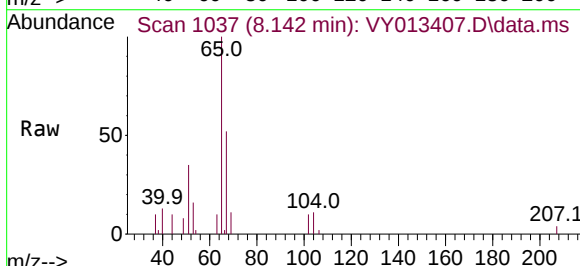
RT: 8.142 min Scan# 1037

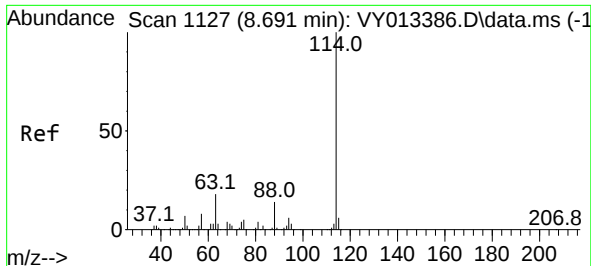
Delta R.T. 0.006 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

Tgt Ion:	65	Resp:	6759
Ion	Ratio	Lower	Upper
65	100		
67	51.9	0.0	103.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SB-23-5.0-5.5

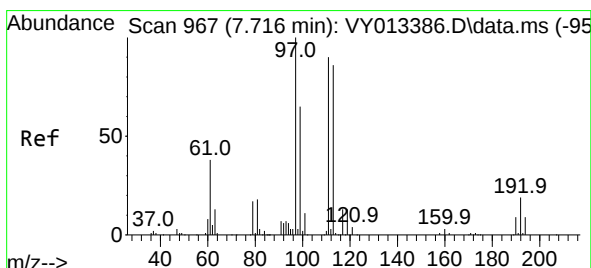
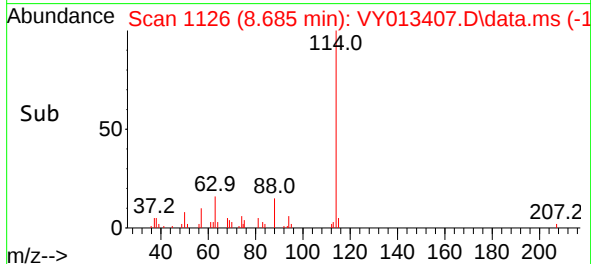
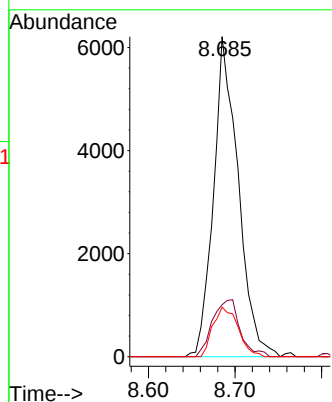
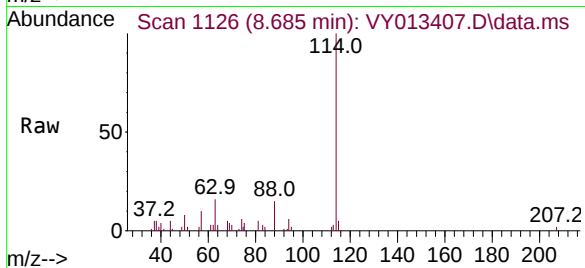
Tgt Ion:114 Resp: 12290

Ion Ratio Lower Upper

114 100

63 16.3 0.0 36.6

88 15.5 0.0 28.8



#35

Dibromofluoromethane

Concen: 67.931 ug/l

RT: 7.716 min Scan# 967

Delta R.T. -0.000 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

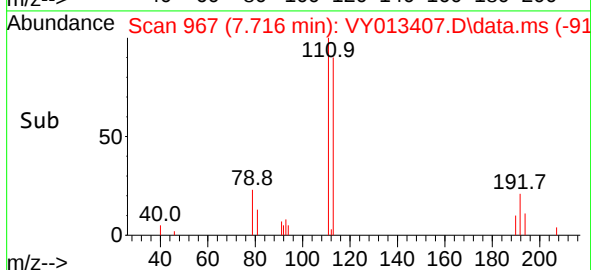
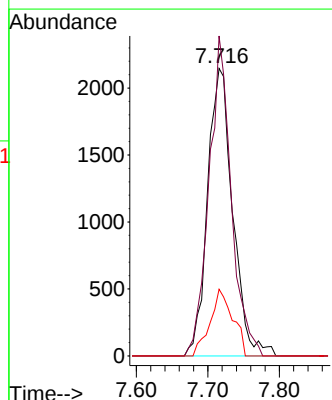
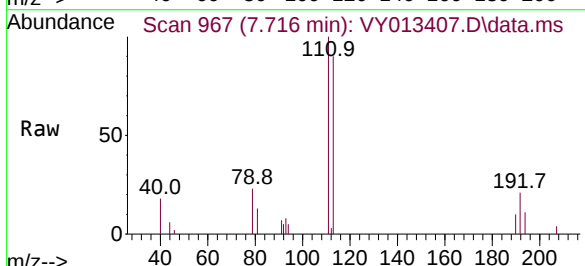
Tgt Ion:113 Resp: 5251

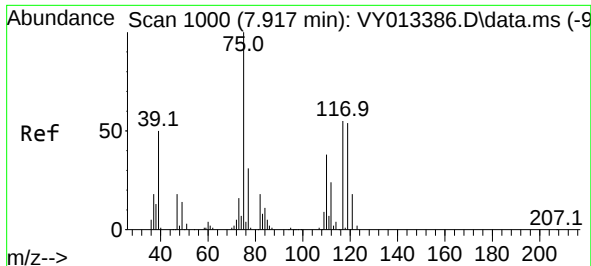
Ion Ratio Lower Upper

113 100

111 98.5 82.2 123.2

192 20.9 16.7 25.1





#36

1,1-Dichloropropene

Concen: 4.669 ug/l

RT: 7.783 min Scan# 91

Delta R.T. -0.134 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

Instrument :

MSVOA_Y

ClientSampleId :

SB-23-5.0-5.5

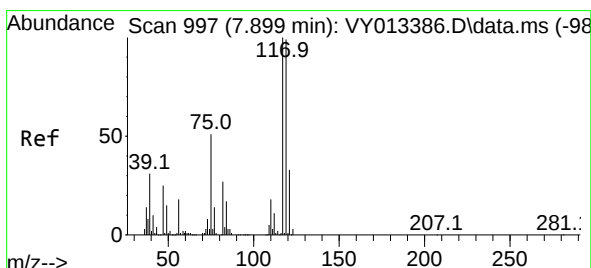
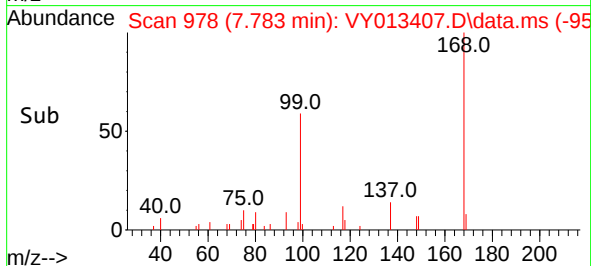
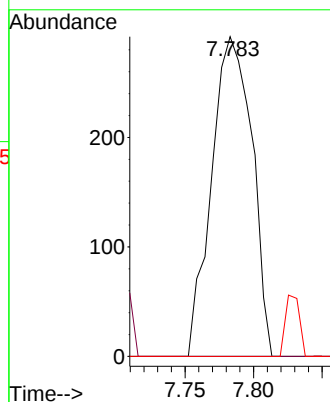
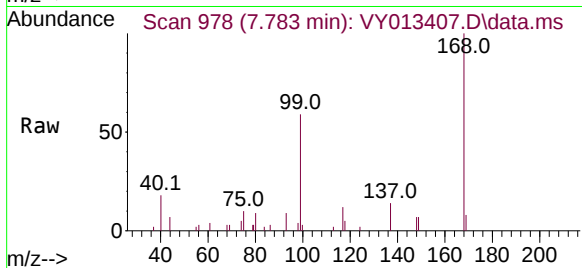
Tgt Ion: 75 Resp: 599

Ion Ratio Lower Upper

75 100

110 0.0 18.7 56.1#

77 0.0 24.6 37.0#



#38

Carbon Tetrachloride

Concen: 5.288 ug/l

RT: 7.783 min Scan# 978

Delta R.T. -0.116 min

Lab File: VY013407.D

Acq: 24 Apr 2023 17:50

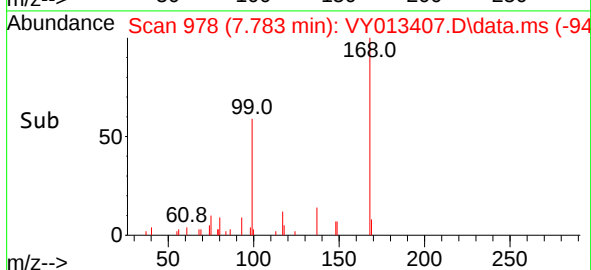
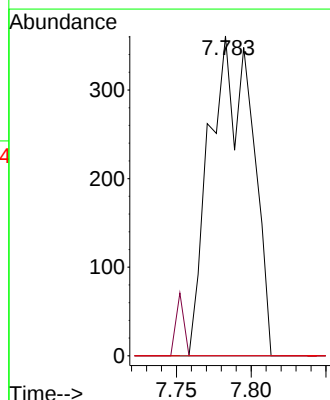
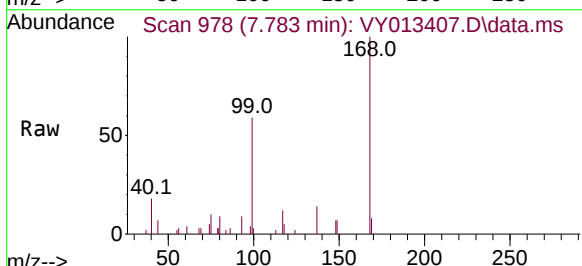
Tgt Ion: 117 Resp: 711

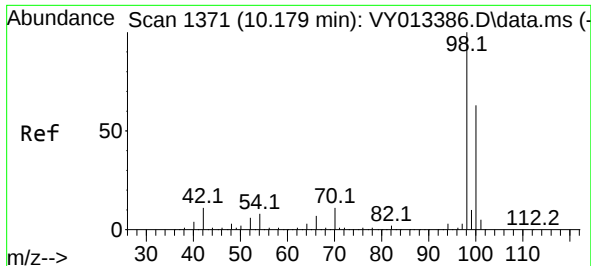
Ion Ratio Lower Upper

117 100

119 0.0 79.0 118.6#

121 0.0 26.6 40.0#

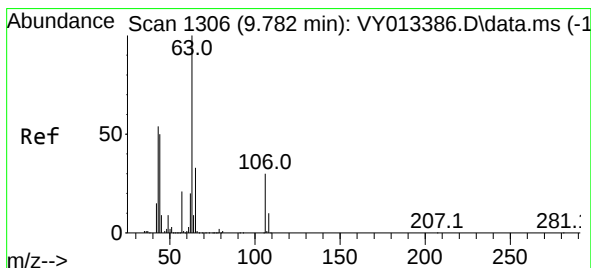
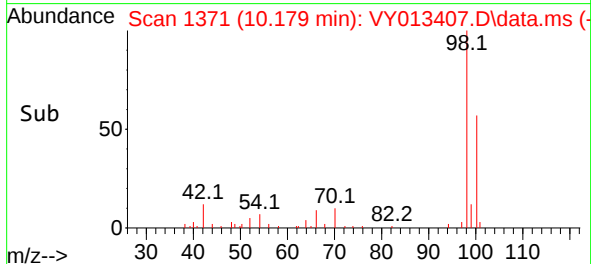
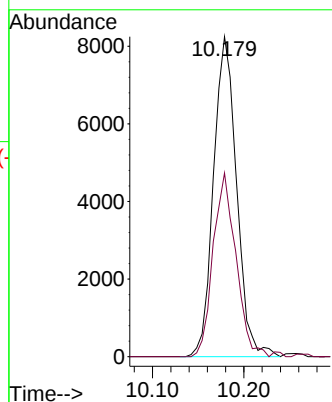
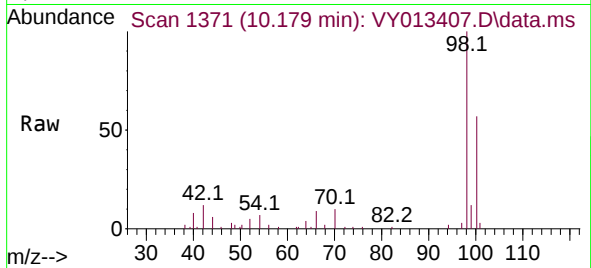




#50
Toluene-d8
Concen: 52.545 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

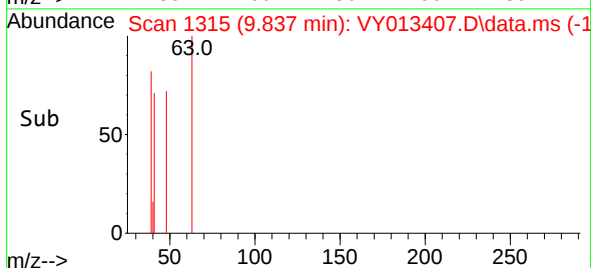
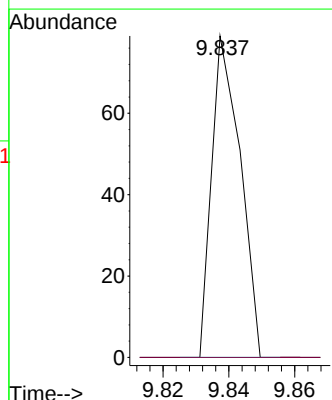
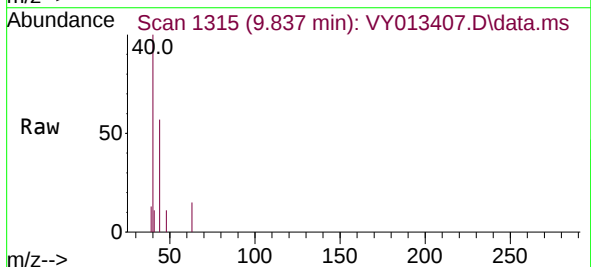
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

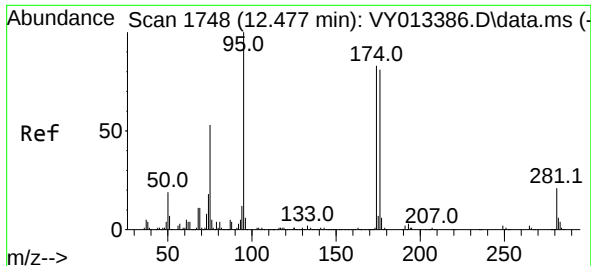
Tgt Ion: 98 Resp: 14449
Ion Ratio Lower Upper
98 100
100 56.8 50.5 75.7



#58
2-Chloroethyl Vinyl ether
Concen: 1.232 ug/l
RT: 9.837 min Scan# 1315
Delta R.T. 0.055 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Tgt Ion: 63 Resp: 48
Ion Ratio Lower Upper
63 100
106 0.0 23.5 35.3#

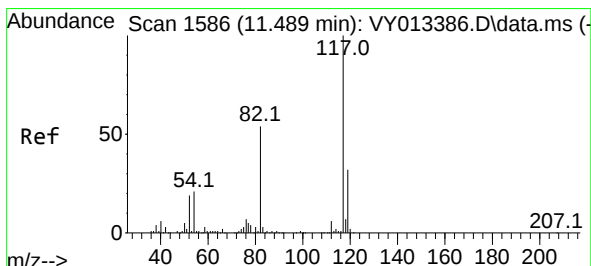
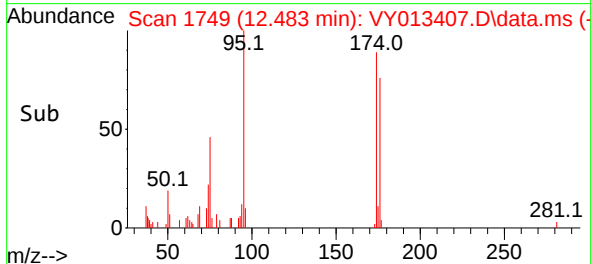
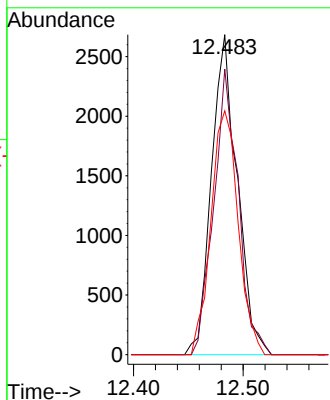
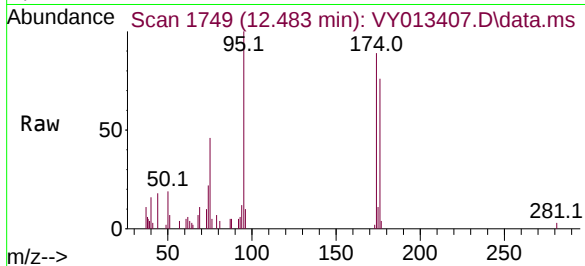




#62
4-Bromofluorobenzene
Concen: 47.247 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.006 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

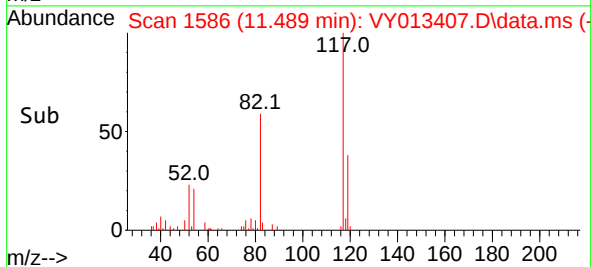
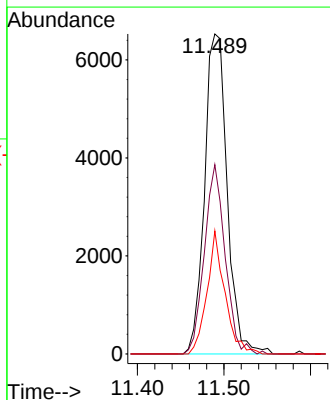
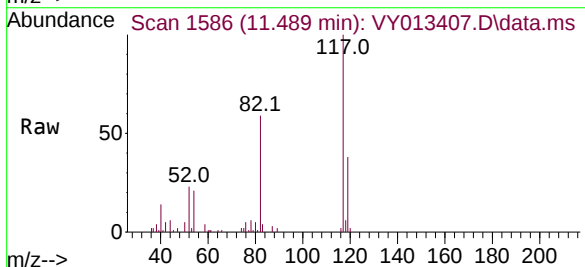
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

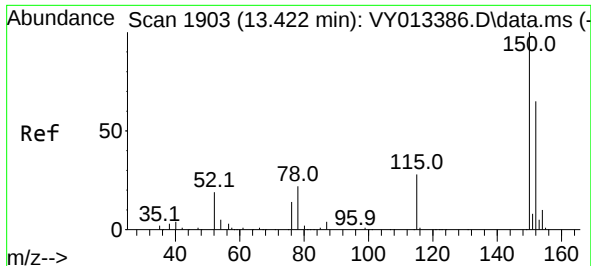
Tgt Ion: 95 Resp: 4380
Ion Ratio Lower Upper
95 100
174 85.3 0.0 182.0
176 80.7 0.0 175.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 1586
Delta R.T. 0.000 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

Tgt Ion: 117 Resp: 11843
Ion Ratio Lower Upper
117 100
82 59.2 43.0 64.6
119 38.4 25.5 38.3#

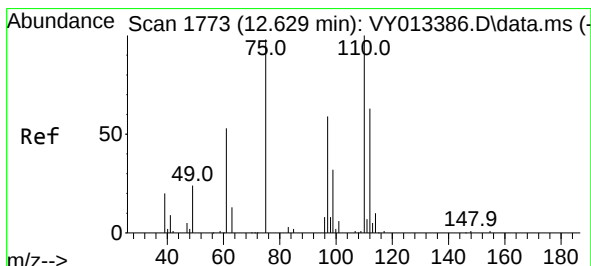
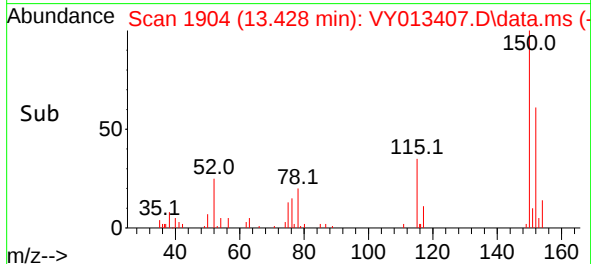
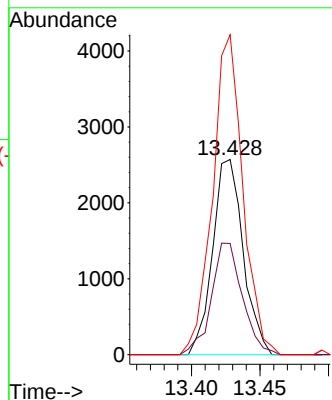
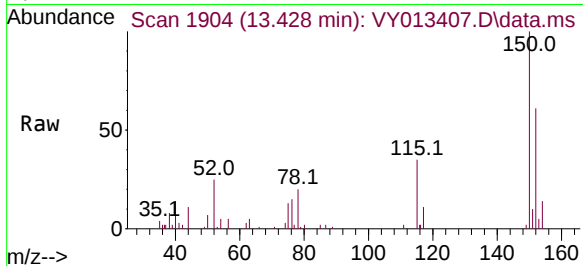




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.428 min Scan# 1903
 Delta R.T. 0.006 min
 Lab File: VY013407.D
 Acq: 24 Apr 2023 17:50

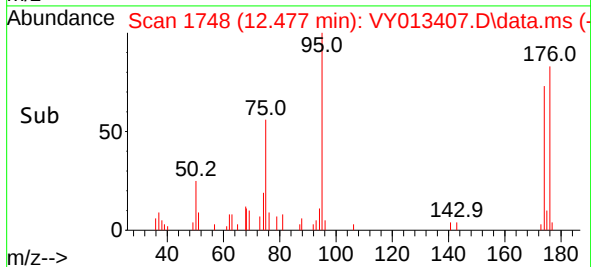
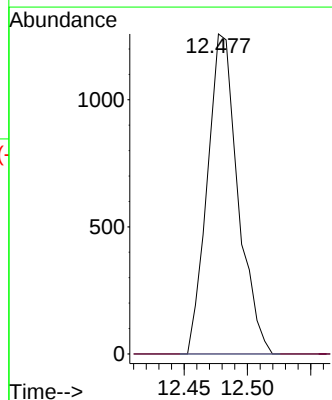
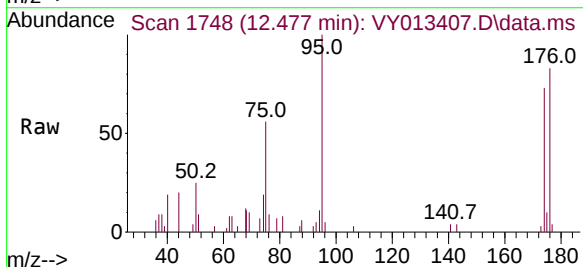
Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-23-5.0-5.5

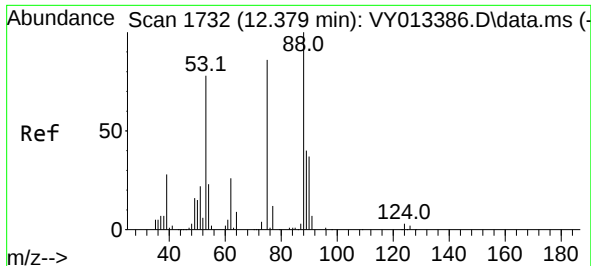
Tgt Ion:152 Resp: 3986
 Ion Ratio Lower Upper
 152 100
 115 58.1 28.1 84.2
 150 162.1 0.0 352.0



#76
 1,2,3-Trichloropropane
 Concen: 39.400 ug/l
 RT: 12.477 min Scan# 1748
 Delta R.T. -0.152 min
 Lab File: VY013407.D
 Acq: 24 Apr 2023 17:50

Tgt Ion: 75 Resp: 2118
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

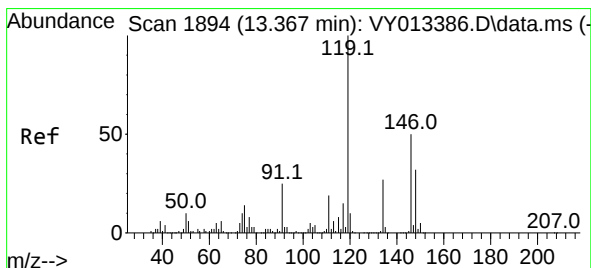
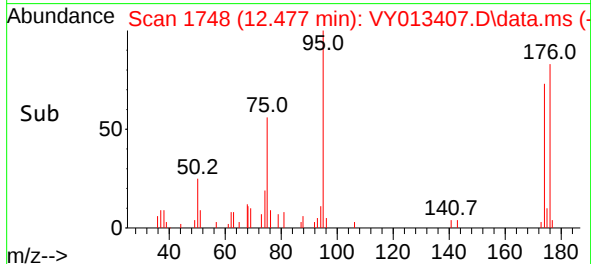
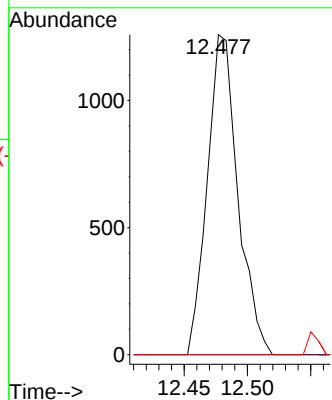
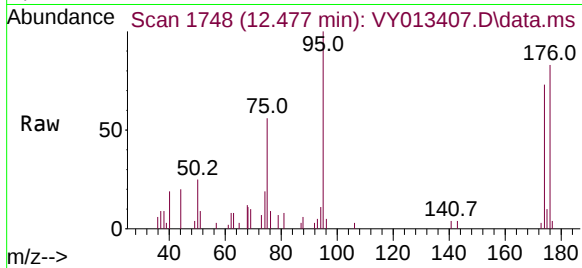




#81
trans-1,4-Dichloro-2-butene
Concen: 80.595 ug/l
RT: 12.477 min Scan# 1732
Delta R.T. 0.098 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

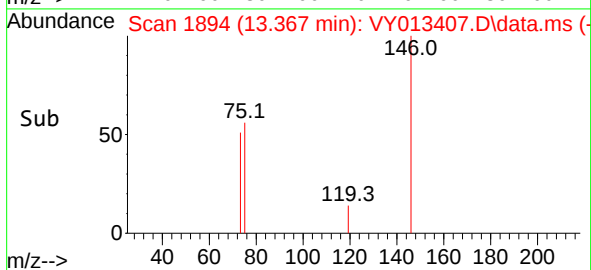
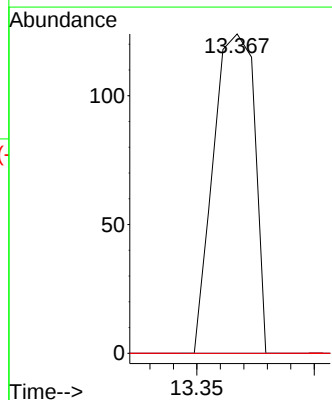
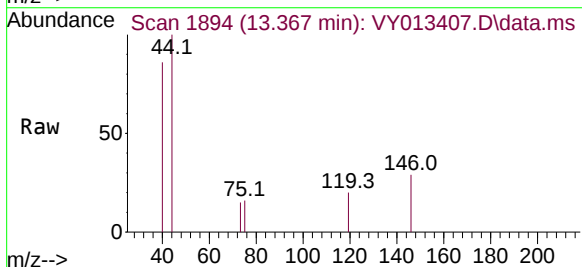
Instrument :
MSVOA_Y
ClientSampleId :
SB-23-5.0-5.5

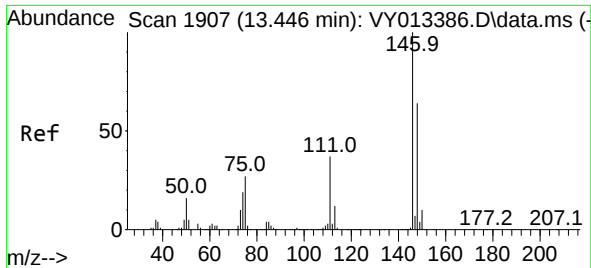
Tgt Ion: 75 Resp: 2118
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#



#87
1,3-Dichlorobenzene
Concen: 1.085 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013407.D
Acq: 24 Apr 2023 17:50

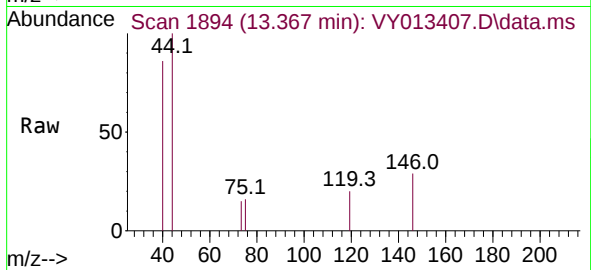
Tgt Ion:146 Resp: 151
Ion Ratio Lower Upper
146 100
111 0.0 19.3 57.9#
148 0.0 31.9 95.7#





#88
 1,4-Dichlorobenzene
 Concen: 1.074 ug/l
 RT: 13.367 min Scan# 11
 Delta R.T. -0.079 min
 Lab File: VY013407.D
 Acq: 24 Apr 2023 17:50

Instrument :
 MSVOA_Y
 ClientSampleId :
 SB-23-5.0-5.5



Tgt Ion	Ratio	Lower	Upper
146	100		
111	0.0	18.9	56.5#
148	0.0	31.9	95.5#

