

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050223\
 Data File : VY013550.D
 Acq On : 02 May 2023 12:39
 Operator : KP/MD
 Sample : 02557-01
 Misc : 5.02g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-042823-A

Quant Time: May 03 01:32:49 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)

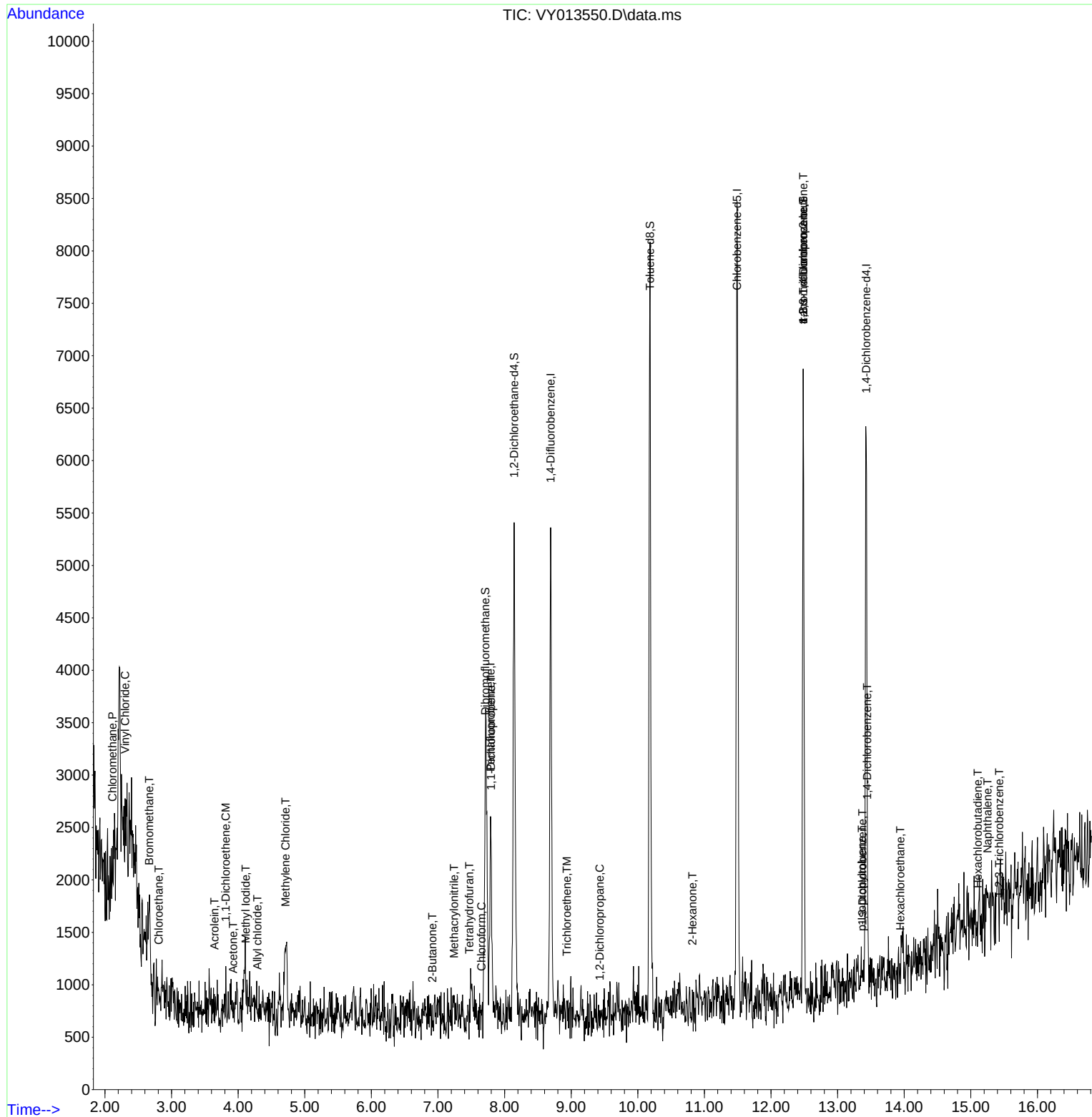
Internal Standards						
1) Pentafluorobenzene	7.789	168	1883	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.691	114	4230	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	4957	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	1583	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.143	65	3573	173.095	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 346.200%#			
35) Dibromofluoromethane	7.710	113	2249	84.534	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 169.060%#			
50) Toluene-d8	10.185	98	4761	50.304	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 100.600%			
62) 4-Bromofluorobenzene	12.483	95	1719	53.876	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 107.760%			
Target Compounds						Qvalue
3) Chloromethane	2.113	50	575	23.963	ug/l	# 85
4) Vinyl Chloride	2.302	62	47	1.967	ug/l	# 43
5) Bromomethane	2.662	94	398	20.904	ug/l	# 59
6) Chloroethane	2.808	64	23	1.393	ug/l	# 44
10) Methyl Iodide	4.113	142	923	36.197	ug/l	# 73
12) 1,1-Dichloroethene	3.814	96	20	1.022	ug/l	# 1
13) Acrolein	3.643	56	60	25.310	ug/l	# 16
14) Allyl chloride	4.290	41	41	1.129	ug/l	# 22
16) Acetone	3.924	43	58	7.135	ug/l	# 43
20) Methylene Chloride	4.710	84	479	12.789	ug/l	# 84
25) 2-Butanone	6.917	43	20	1.940	ug/l	# 47
29) Tetrahydrofuran	7.472	42	23	3.584	ug/l	# 32
30) Chloroform	7.655	83	43	1.093	ug/l	# 18
36) 1,1-Dichloropropene	7.795	75	165	3.737	ug/l	# 40
41) Methacrylonitrile	7.240	41	20	1.292	ug/l	# 30
44) Trichloroethene	8.935	130	57	1.723	ug/l	2
45) 1,2-Dichloropropane	9.429	63	70	2.152	ug/l	# 44
59) 2-Hexanone	10.819	43	42	1.849	ug/l	# 26
76) 1,2,3-Trichloropropane	12.483	75	913	42.766	ug/l	# 100
81) trans-1,4-Dichloro-2-b...	12.483	75	913	87.480	ug/l	# 12
86) p-Isopropyltoluene	13.367	119	103	1.008	ug/l	# 50
87) 1,3-Dichlorobenzene	13.373	146	56	1.013	ug/l	# 52
88) 1,4-Dichlorobenzene	13.446	146	202	3.618	ug/l	# 60
90) Hexachloroethane	13.940	117	28	1.302	ug/l	# 8
94) Hexachlorobutadiene	15.105	225	59	3.407	ug/l	# 19
95) Naphthalene	15.251	128	177	2.741	ug/l	# 69
96) 1,2,3-Trichlorobenzene	15.428	180	115	4.336	ug/l	# 45

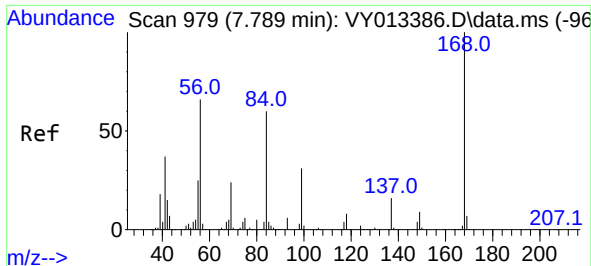
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Apr 25 02:39:58 2023
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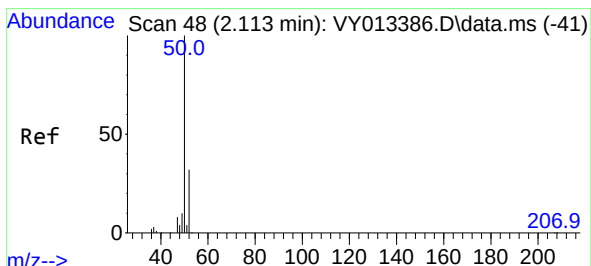
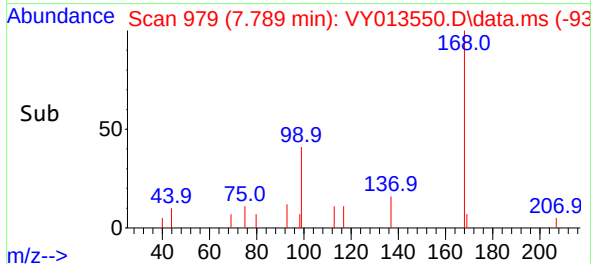
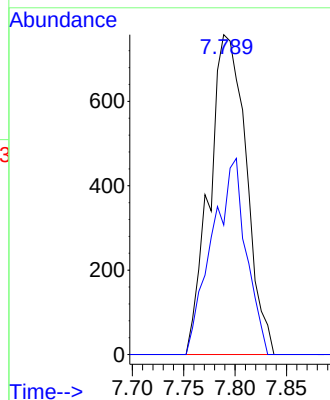
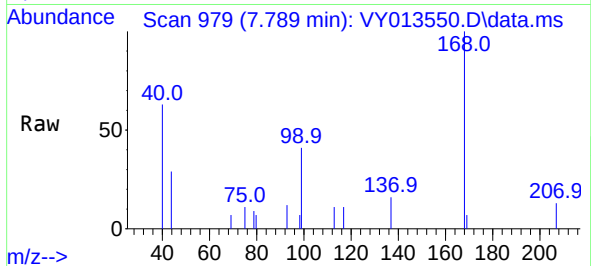




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

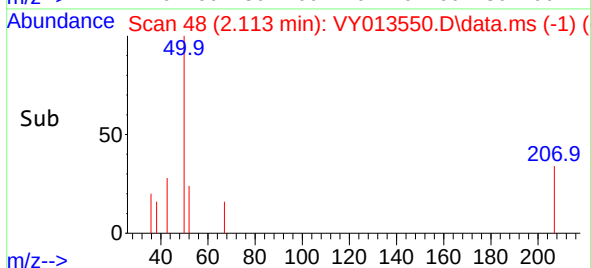
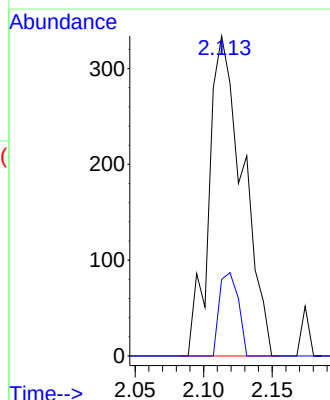
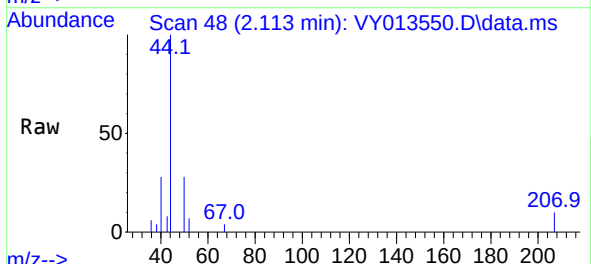
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

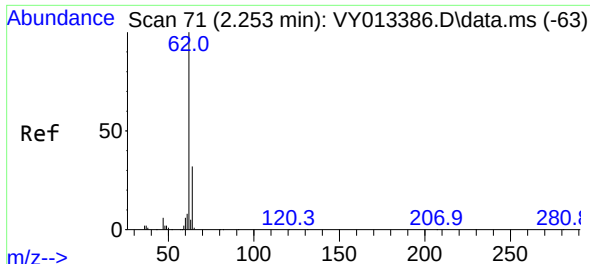
Tgt Ion:168 Resp: 1883
Ion Ratio Lower Upper
168 100
99 40.5 41.8 62.6#



#3
Chloromethane
Concen: 23.963 ug/l
RT: 2.113 min Scan# 48
Delta R.T. 0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 50 Resp: 575
Ion Ratio Lower Upper
50 100
52 24.0 25.9 38.9#

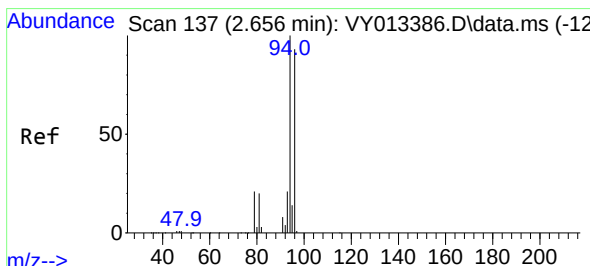
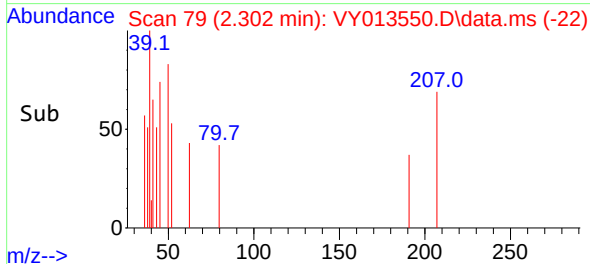
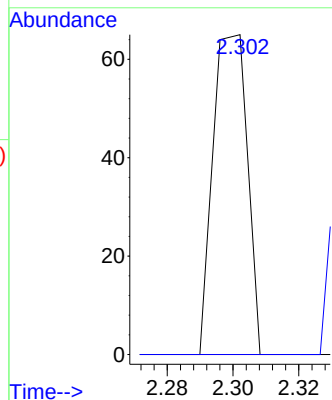
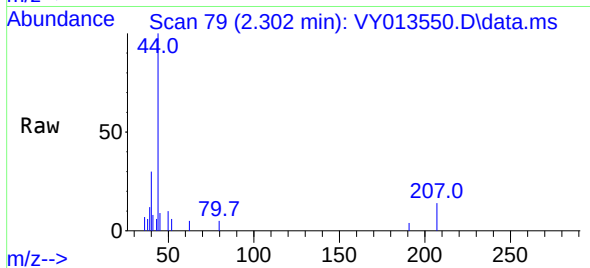




#4
 Vinyl Chloride
 Concen: 1.967 ug/l
 RT: 2.302 min Scan# 71
 Delta R.T. 0.049 min
 Lab File: VY013550.D
 Acq: 02 May 2023 12:39

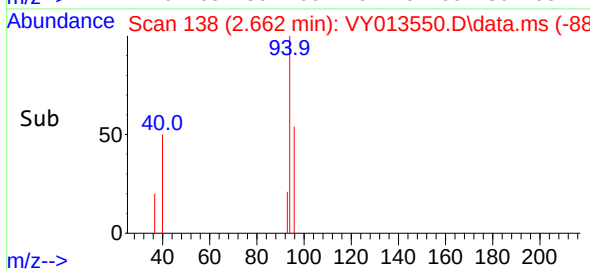
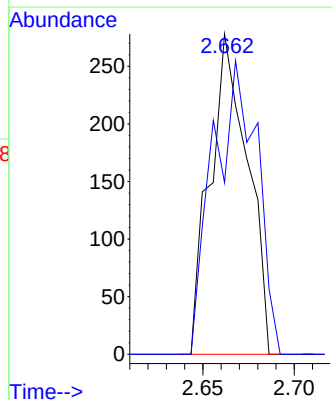
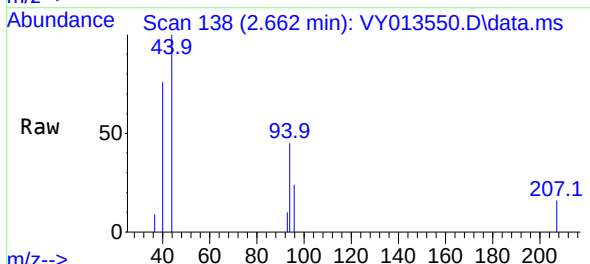
Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-042823-A

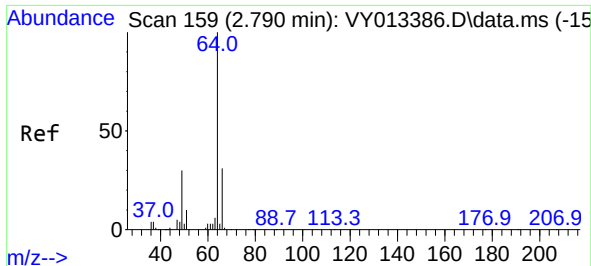
Tgt Ion: 62 Resp: 47
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.4 38.0#



#5
 Bromomethane
 Concen: 20.904 ug/l
 RT: 2.662 min Scan# 138
 Delta R.T. 0.006 min
 Lab File: VY013550.D
 Acq: 02 May 2023 12:39

Tgt Ion: 94 Resp: 398
 Ion Ratio Lower Upper
 94 100
 96 53.6 74.2 111.2#

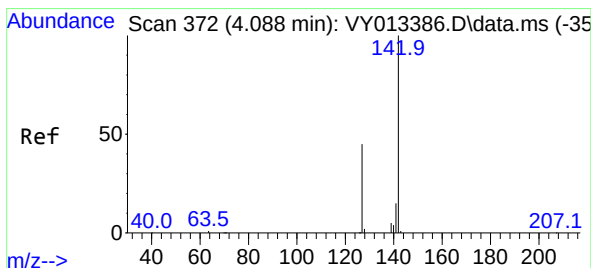
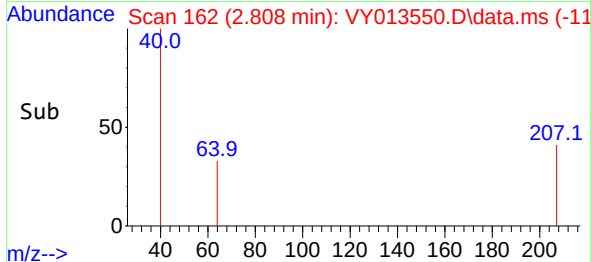
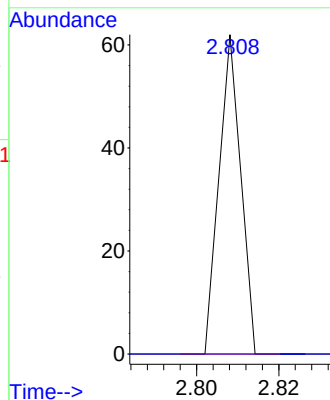
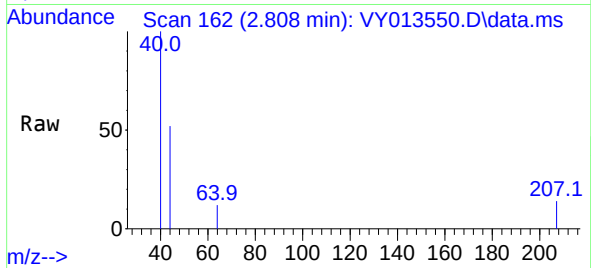




#6
Chloroethane
Concen: 1.393 ug/l
RT: 2.808 min Scan# 11
Delta R.T. 0.018 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

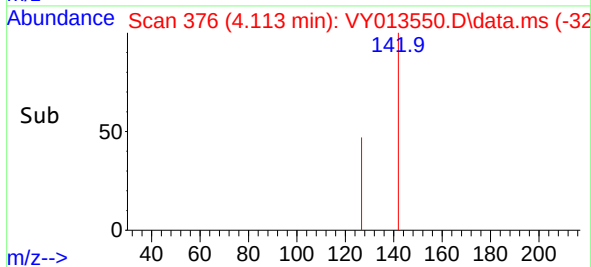
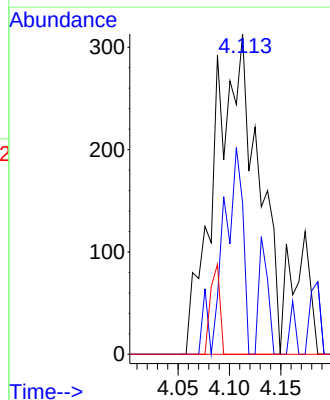
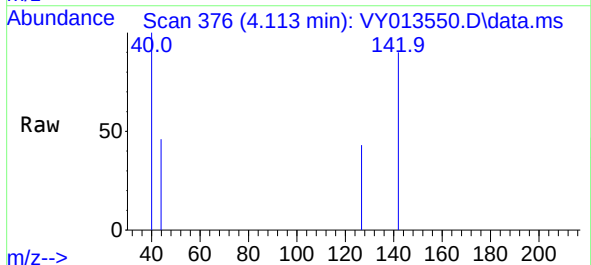
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

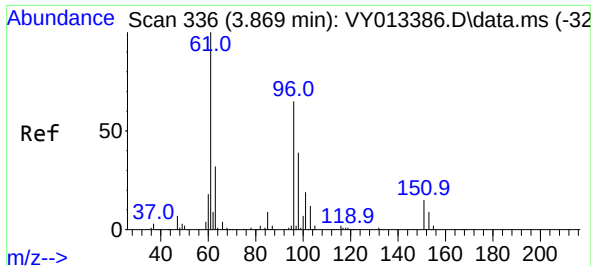
Tgt Ion: 64 Resp: 23
Ion Ratio Lower Upper
64 100
66 0.0 24.6 37.0#



#10
Methyl Iodide
Concen: 36.197 ug/l
RT: 4.113 min Scan# 376
Delta R.T. 0.025 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 142 Resp: 923
Ion Ratio Lower Upper
142 100
127 29.0 36.1 54.1#
141 0.0 11.6 17.4#

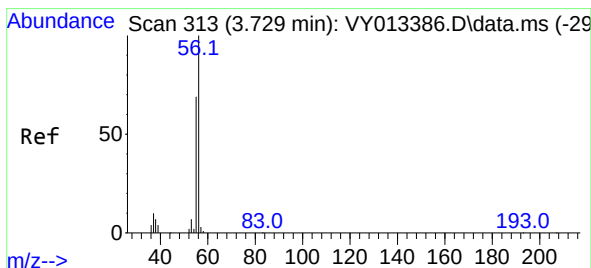
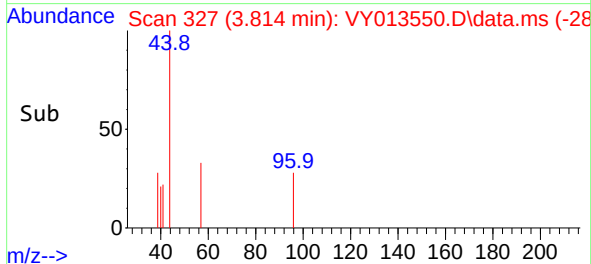
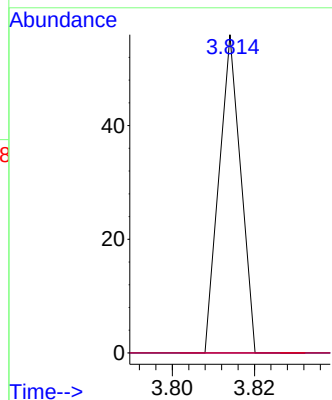
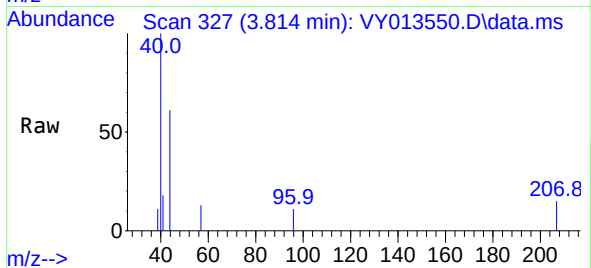




#12
1,1-Dichloroethene
Concen: 1.022 ug/l
RT: 3.814 min Scan# 31
Delta R.T. -0.055 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

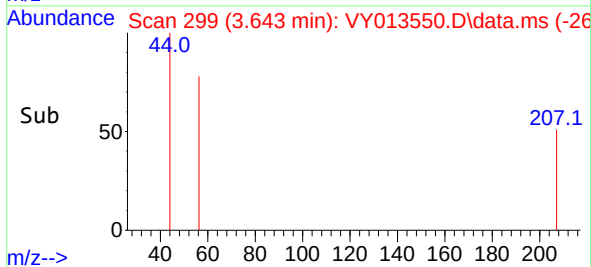
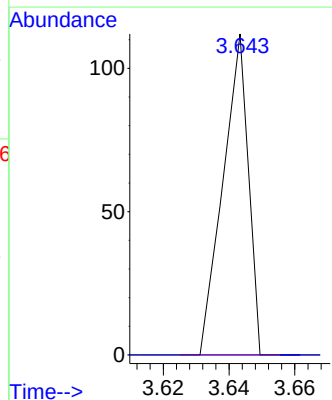
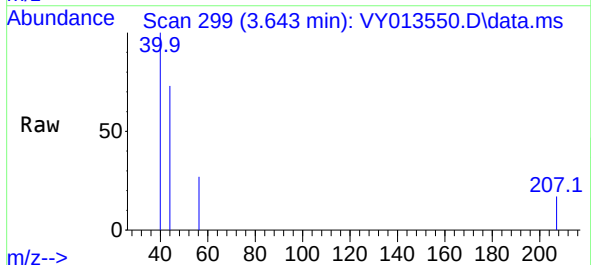
Instrument :
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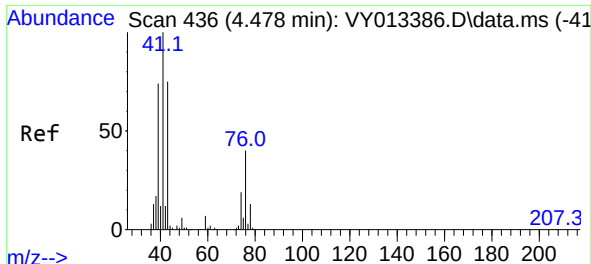
Tgt Ion: 96 Resp: 20
Ion Ratio Lower Upper
96 100
61 0.0 123.9 185.9#
98 0.0 48.9 73.3#



#13
Acrolein
Concen: 25.310 ug/l
RT: 3.643 min Scan# 299
Delta R.T. -0.086 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 56 Resp: 60
Ion Ratio Lower Upper
56 100
55 0.0 54.1 81.1#

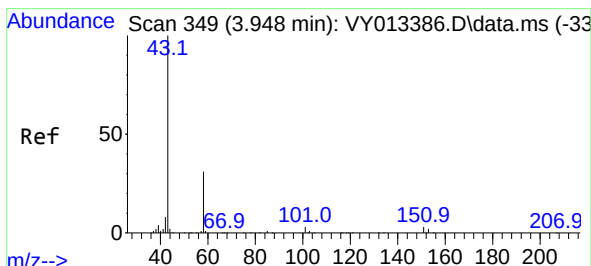
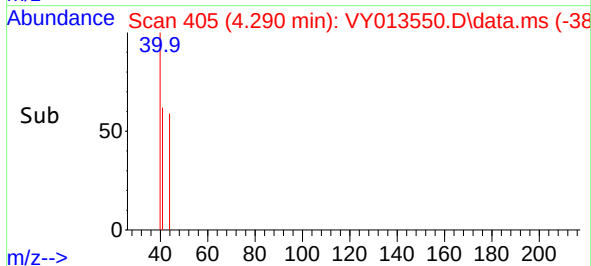
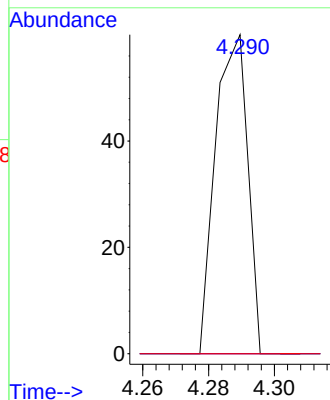
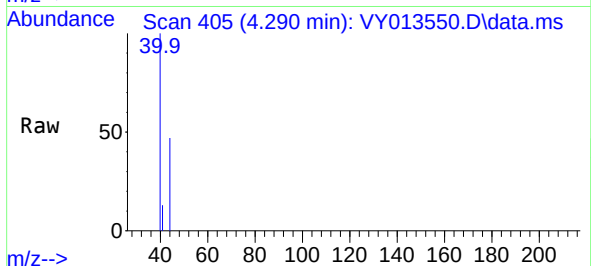




#14
 Allyl chloride
 Concen: 1.129 ug/l
 RT: 4.290 min Scan# 405
 Delta R.T. -0.188 min
 Lab File: VY013550.D
 Acq: 02 May 2023 12:39

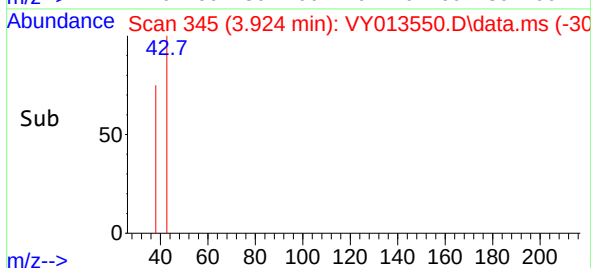
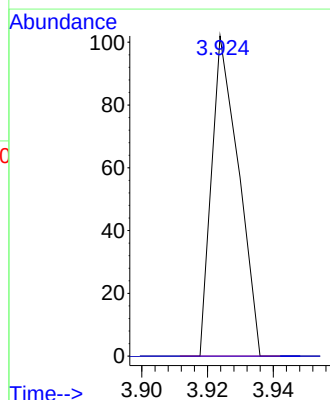
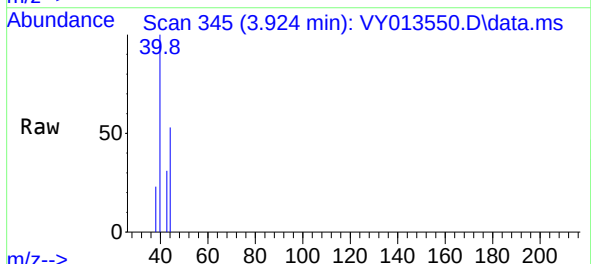
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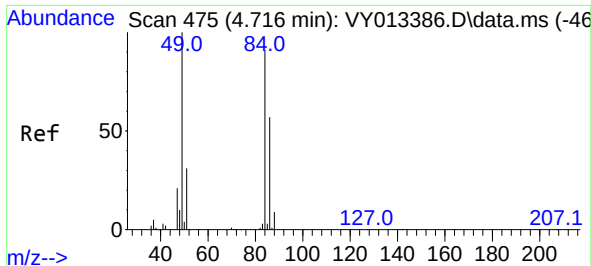
Tgt Ion: 41 Resp: 41
 Ion Ratio Lower Upper
 41 100
 39 0.0 56.6 85.0#
 76 0.0 30.5 45.7#



#16
 Acetone
 Concen: 7.135 ug/l
 RT: 3.924 min Scan# 345
 Delta R.T. -0.024 min
 Lab File: VY013550.D
 Acq: 02 May 2023 12:39

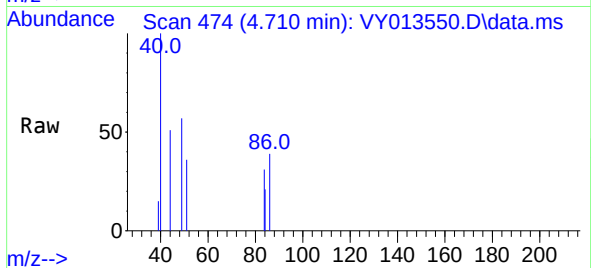
Tgt Ion: 43 Resp: 58
 Ion Ratio Lower Upper
 43 100
 58 0.0 25.4 38.0#





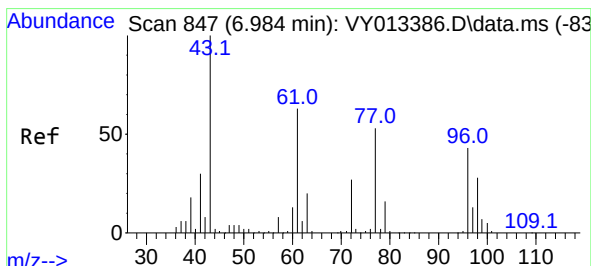
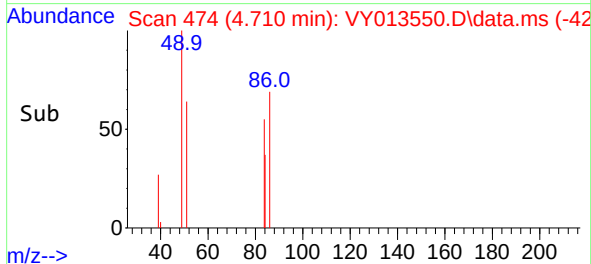
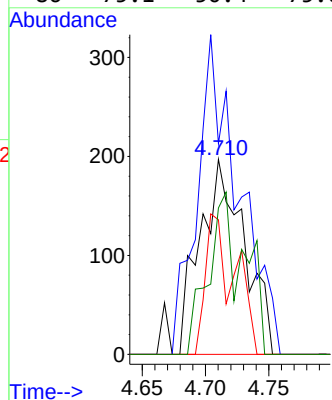
#20
Methylene Chloride
Concen: 12.789 ug/l
RT: 4.710 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

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Tgt Ion: 84 Resp: 479

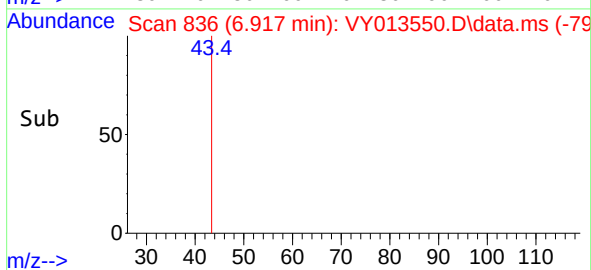
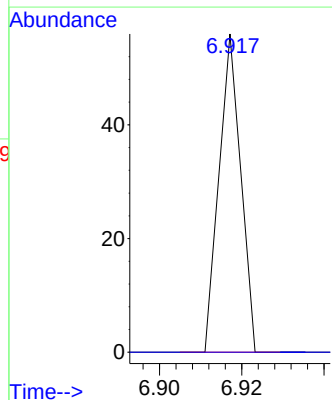
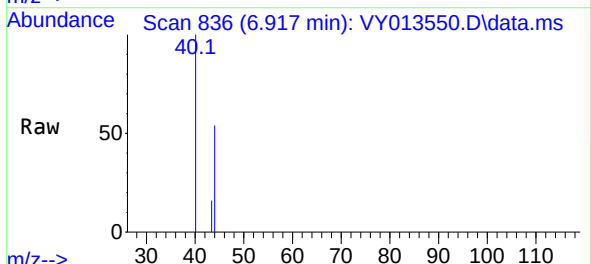
Ion	Ratio	Lower	Upper
84	100		
49	108.1	88.0	132.0
51	69.0	27.4	41.0#
86	75.1	50.4	75.6



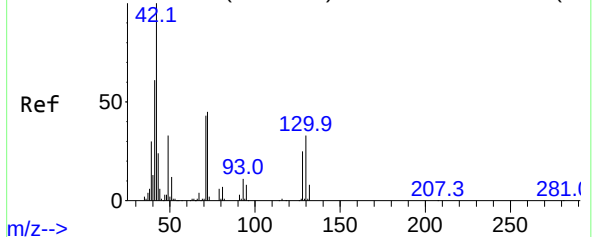
#25
2-Butanone
Concen: 1.940 ug/l
RT: 6.917 min Scan# 836
Delta R.T. -0.067 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 43 Resp: 20

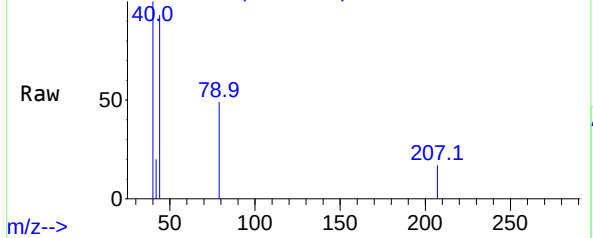
Ion	Ratio	Lower	Upper
43	100		
72	0.0	21.9	32.9#



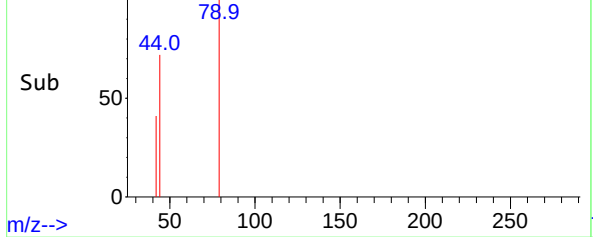
Abundance Scan 906 (7.344 min): VY013386.D\data.ms (-89



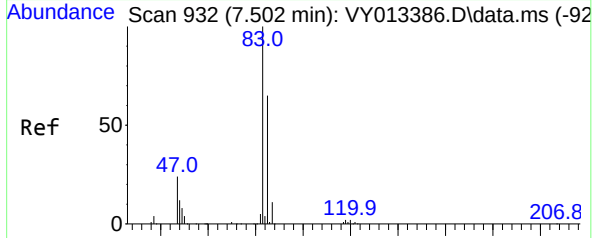
m/z--> Scan 927 (7.472 min): VY013550.D\data.ms



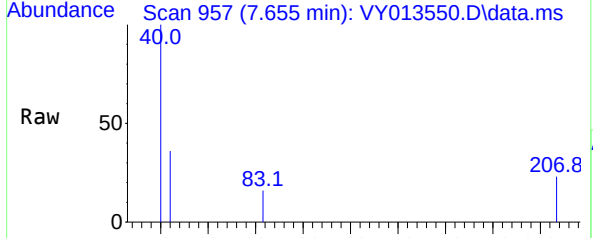
m/z--> Abundance Scan 927 (7.472 min): VY013550.D\data.ms (-85



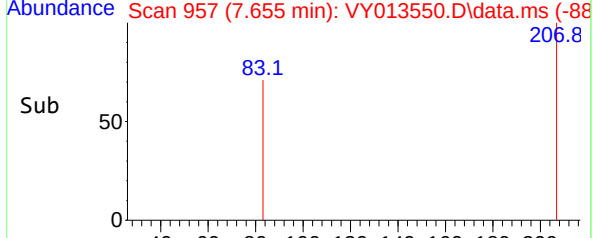
m/z--> Abundance Scan 932 (7.502 min): VY013386.D\data.ms (-92



m/z--> Abundance Scan 957 (7.655 min): VY013550.D\data.ms



m/z--> Abundance Scan 957 (7.655 min): VY013550.D\data.ms (-88



m/z--> Abundance

#29

Tetrahydrofuran

Concen: 3.584 ug/l

RT: 7.472 min Scan# 91

Delta R.T. 0.128 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

Instrument :

MSVOA_Y

ClientSampleId :

JC-03-042823-A

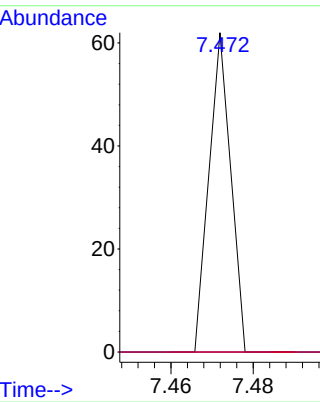
Tgt Ion: 42 Resp: 23

Ion Ratio Lower Upper

42 100

72 0.0 35.9 53.9#

71 0.0 34.3 51.5#



#30

Chloroform

Concen: 1.093 ug/l

RT: 7.655 min Scan# 957

Delta R.T. 0.153 min

Lab File: VY013550.D

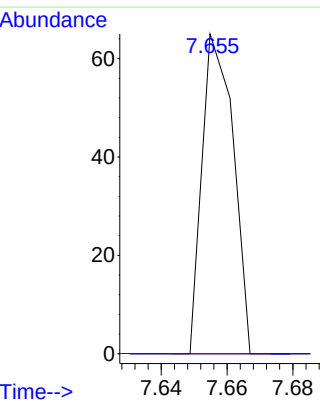
Acq: 02 May 2023 12:39

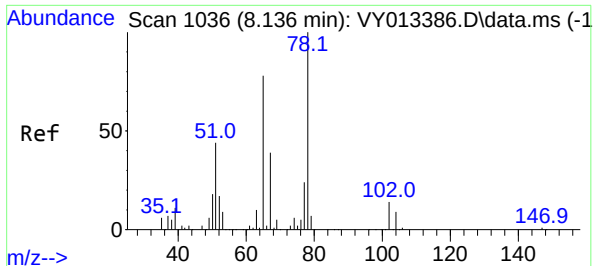
Tgt Ion: 83 Resp: 43

Ion Ratio Lower Upper

83 100

85 0.0 52.0 78.0#





#33

1,2-Dichloroethane-d4

Concen: 173.095 ug/l

RT: 8.143 min Scan# 1036

Delta R.T. 0.007 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

Instrument :

MSVOA_Y

ClientSampleId :

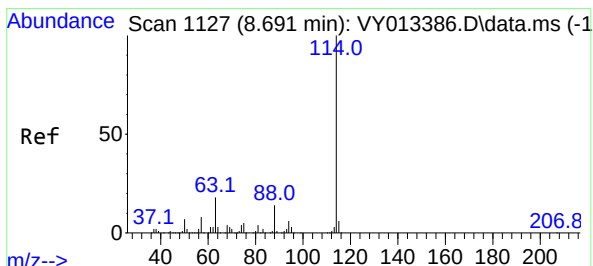
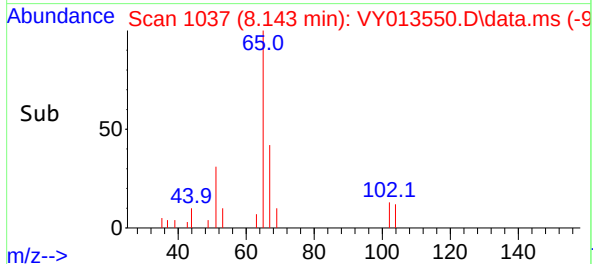
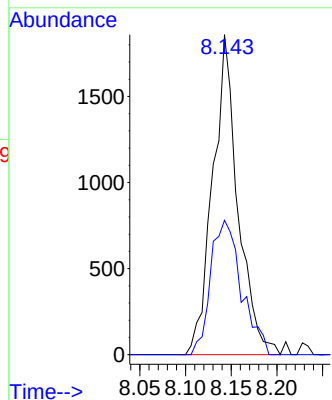
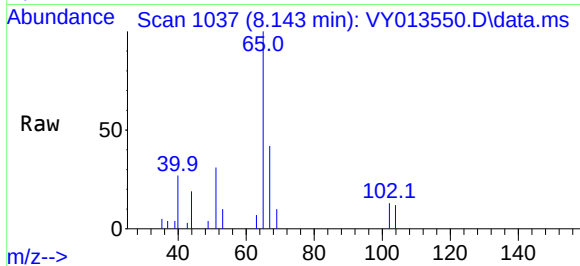
JC-03-042823-A

Tgt Ion: 65 Resp: 3573

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. 0.000 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

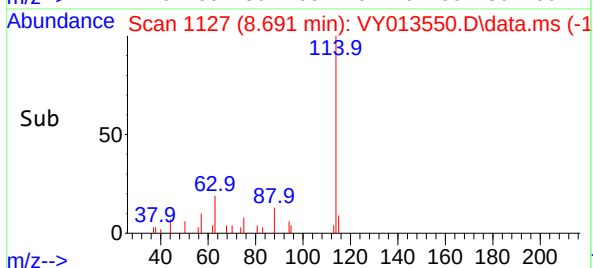
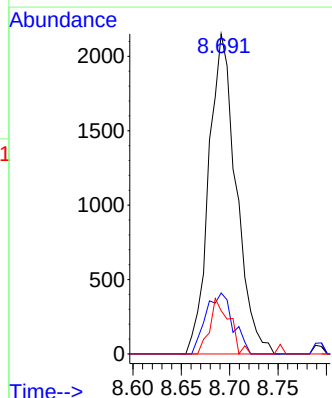
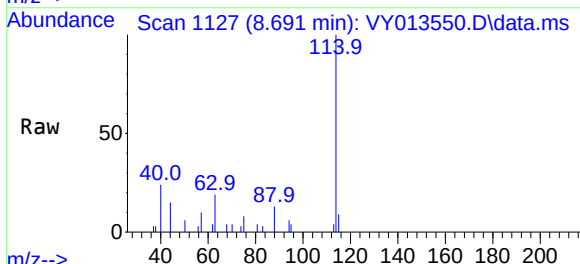
Tgt Ion: 114 Resp: 4230

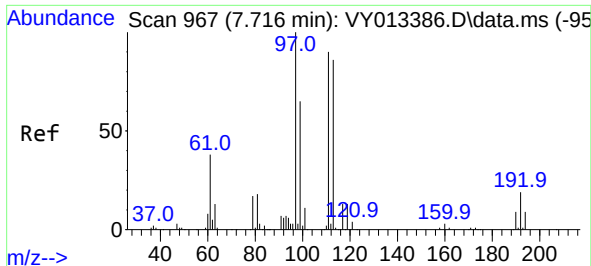
Ion Ratio Lower Upper

114 100

63 19.0 0.0 36.6

88 13.5 0.0 28.8

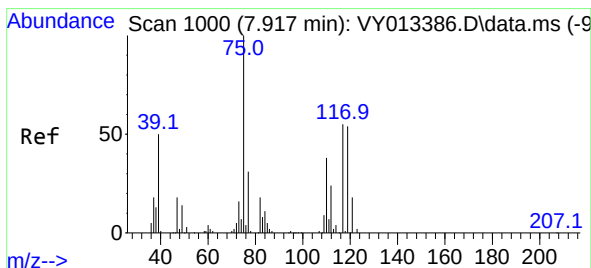
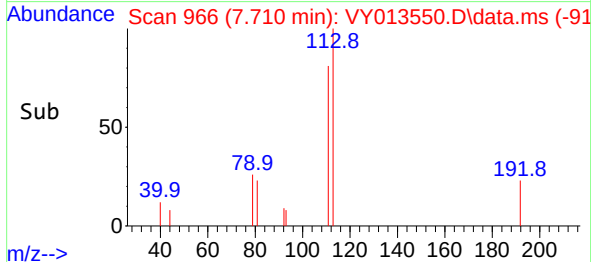
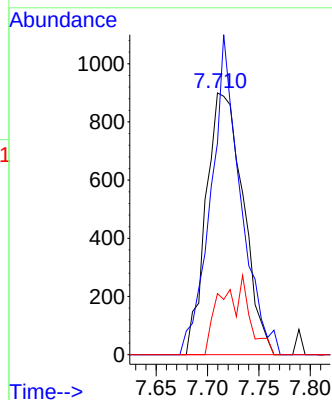
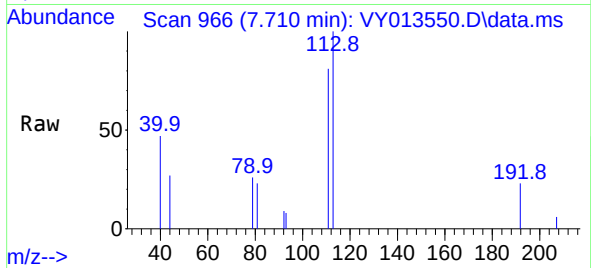




#35
Dibromofluoromethane
Concen: 84.534 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.006 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

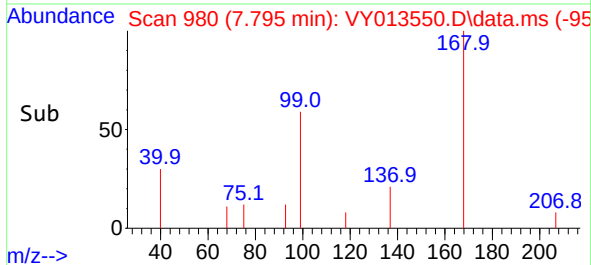
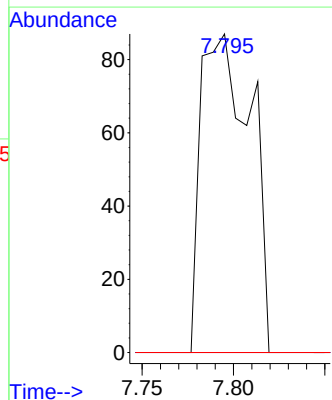
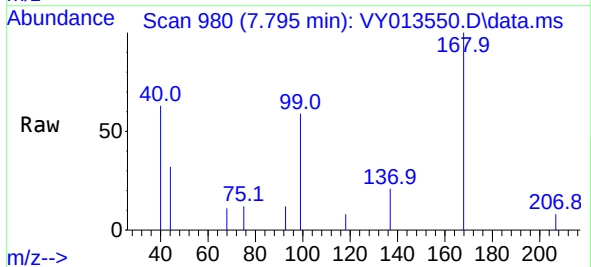
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

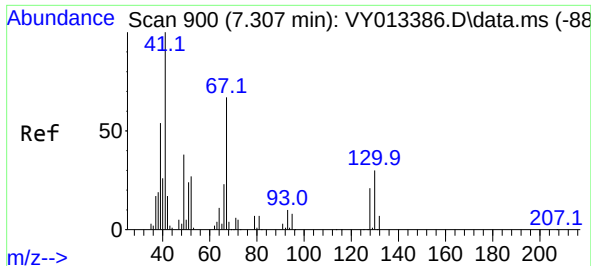
Tgt Ion:113 Resp: 2249
Ion Ratio Lower Upper
113 100
111 97.8 82.2 123.2
192 0.0 16.7 25.1#



#36
1,1-Dichloropropene
Concen: 3.737 ug/l
RT: 7.795 min Scan# 980
Delta R.T. -0.122 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 75 Resp: 165
Ion Ratio Lower Upper
75 100
110 0.0 18.7 56.1#
77 0.0 24.6 37.0#

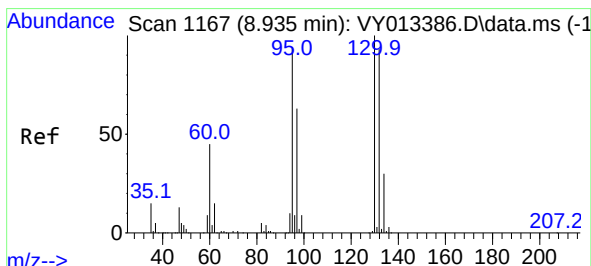
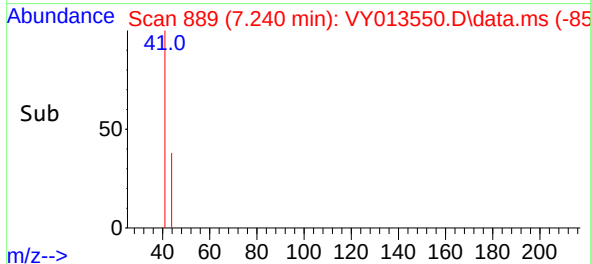
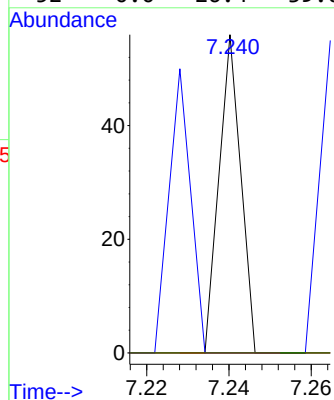
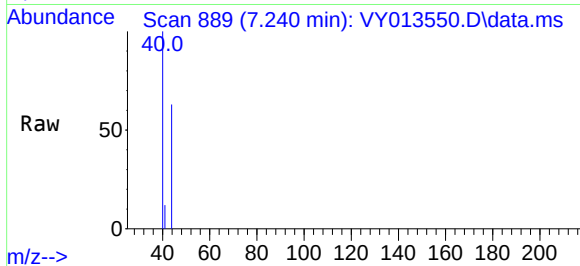




#41
Methacrylonitrile
Concen: 1.292 ug/l
RT: 7.240 min Scan# 89
Delta R.T. -0.067 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

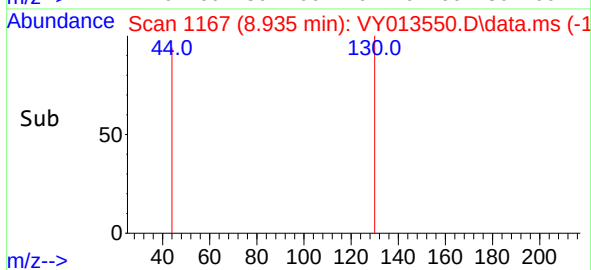
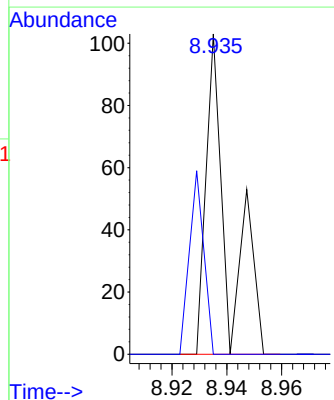
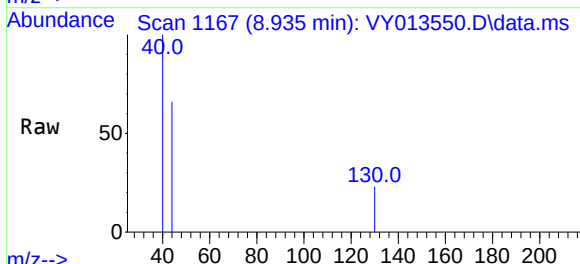
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

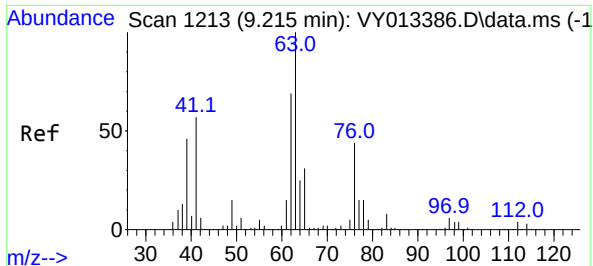
Tgt Ion:	41	Resp:	20
Ion	Ratio	Lower	Upper
41	100		
39	90.0	44.2	66.4#
67	0.0	62.9	94.3#
52	0.0	26.4	39.6#



#44
Trichloroethene
Concen: 1.723 ug/l
RT: 8.935 min Scan# 1167
Delta R.T. 0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion:	130	Resp:	57
Ion	Ratio	Lower	Upper
130	100		
95	0.0	0.0	188.8





#45

1,2-Dichloropropane

Concen: 2.152 ug/l

RT: 9.429 min Scan# 11

Delta R.T. 0.214 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

Instrument :

MSVOA_Y

ClientSampleId :

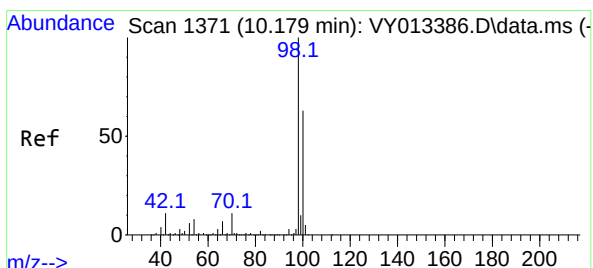
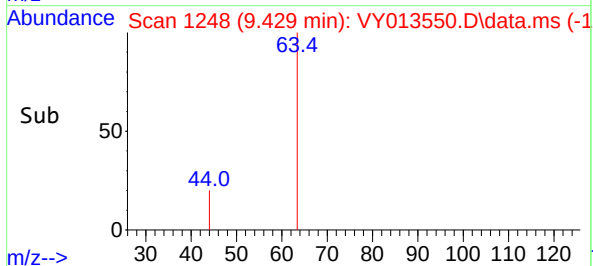
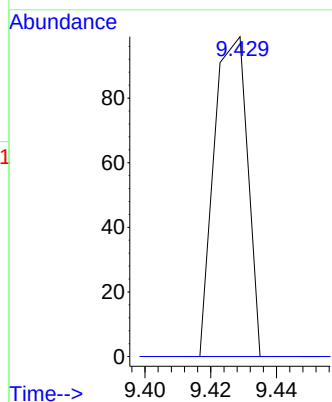
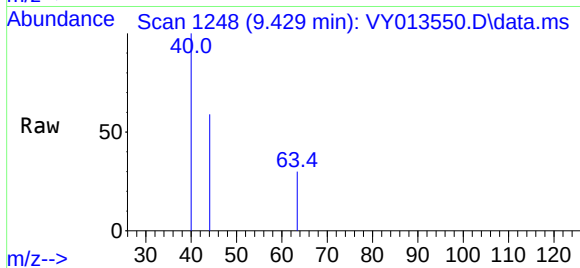
JC-03-042823-A

Tgt Ion: 63 Resp: 70

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#50

Toluene-d8

Concen: 50.304 ug/l

RT: 10.185 min Scan# 1372

Delta R.T. 0.006 min

Lab File: VY013550.D

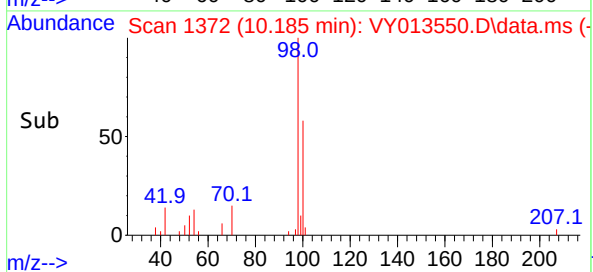
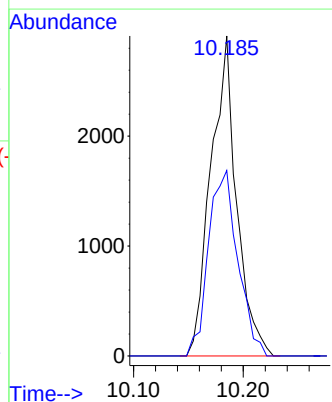
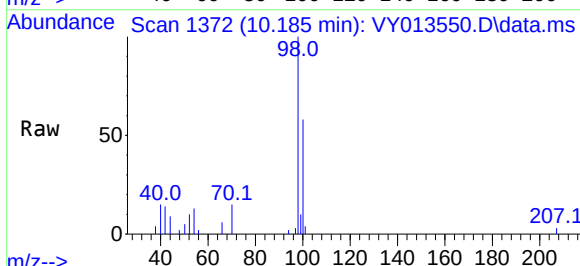
Acq: 02 May 2023 12:39

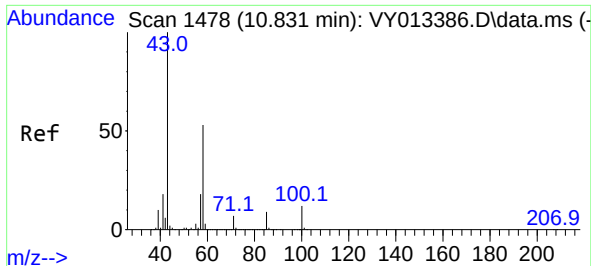
Tgt Ion: 98 Resp: 4761

Ion Ratio Lower Upper

98 100

100 66.0 50.5 75.7





#59

2-Hexanone

Concen: 1.849 ug/l

RT: 10.819 min Scan# 1478

Delta R.T. -0.012 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

Instrument :

MSVOA_Y

ClientSampleId :

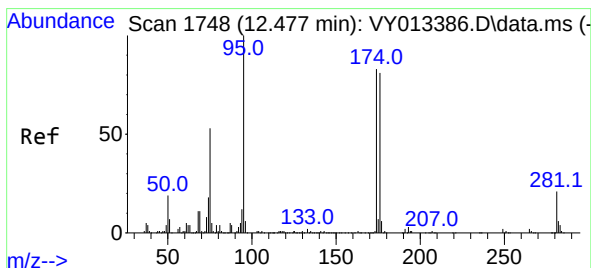
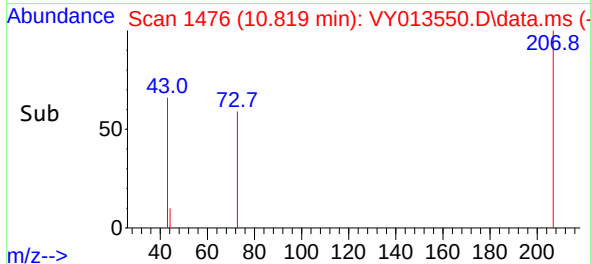
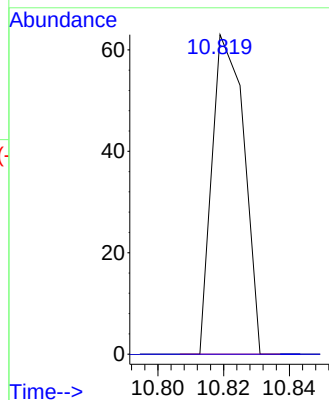
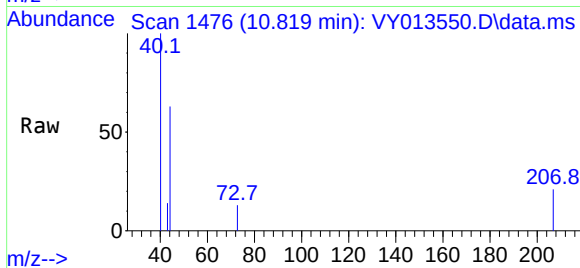
JC-03-042823-A

Tgt Ion: 43 Resp: 42

Ion Ratio Lower Upper

43 100

58 0.0 26.3 78.8#



#62

4-Bromofluorobenzene

Concen: 53.876 ug/l

RT: 12.483 min Scan# 1749

Delta R.T. 0.006 min

Lab File: VY013550.D

Acq: 02 May 2023 12:39

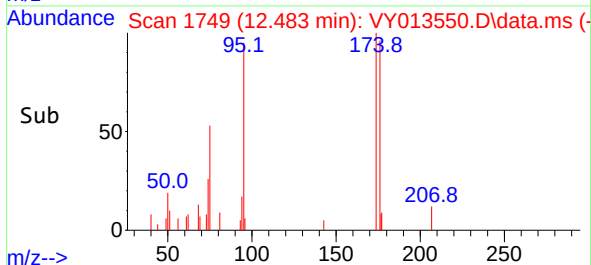
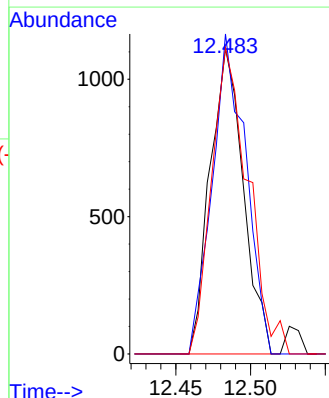
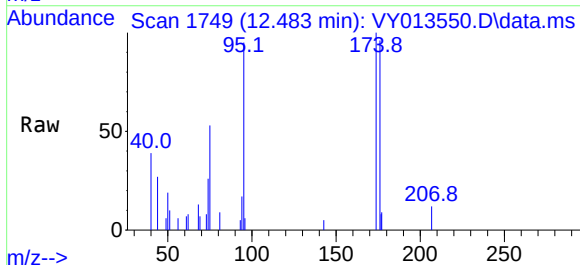
Tgt Ion: 95 Resp: 1719

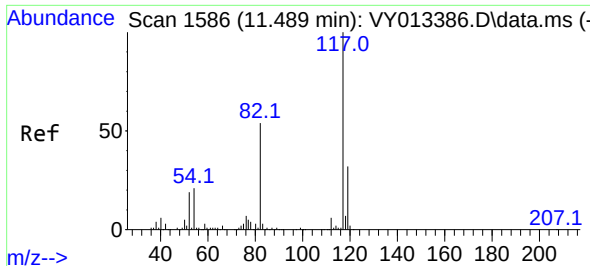
Ion Ratio Lower Upper

95 100

174 105.4 0.0 182.0

176 109.9 0.0 175.4

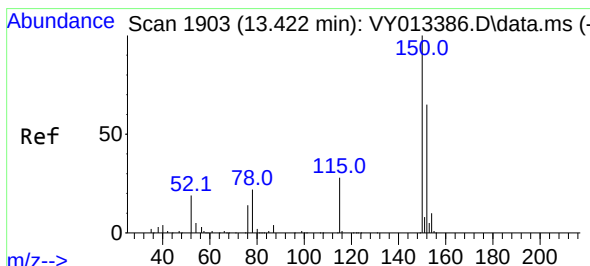
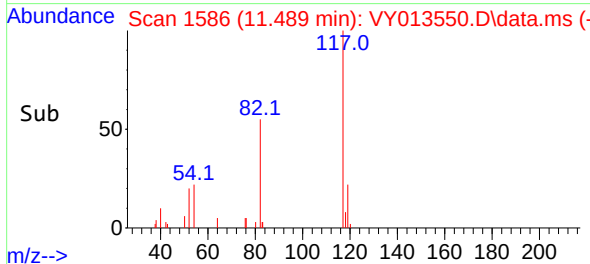
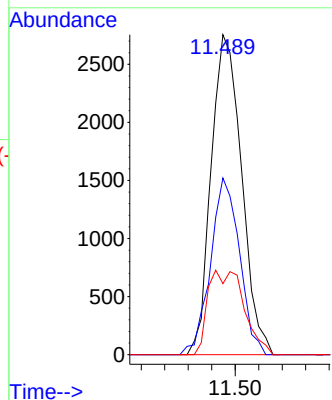
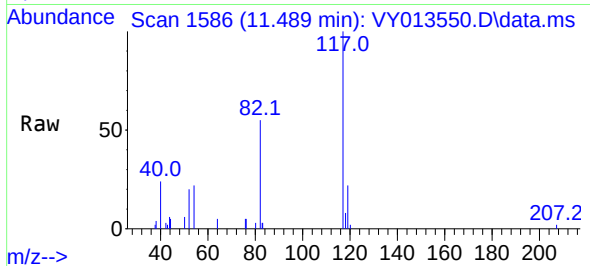




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

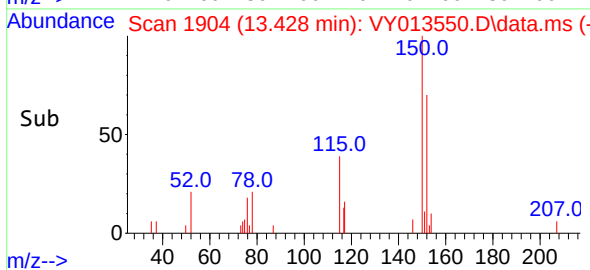
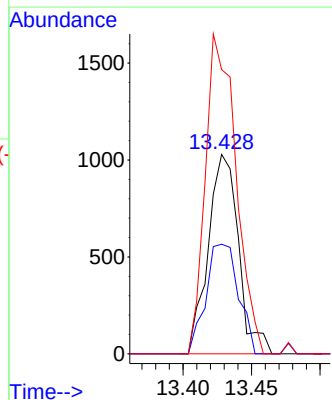
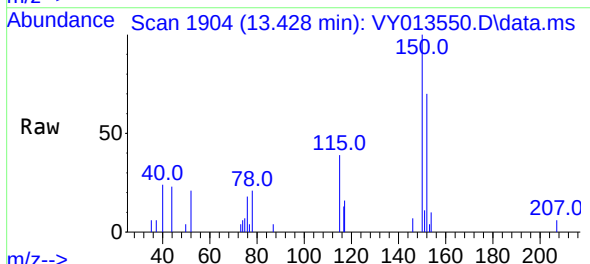
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

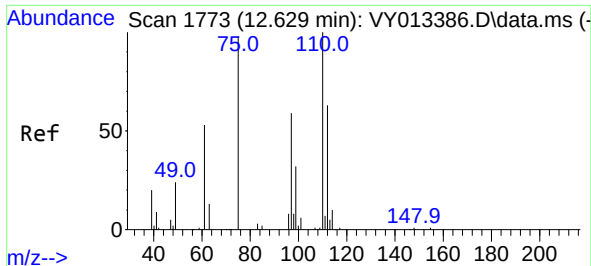
Tgt Ion:	117	Resp:	4957
Ion	Ratio	Lower	Upper
117	100		
82	55.2	43.0	64.6
119	22.2	25.5	38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. 0.006 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion:	152	Resp:	1583
Ion	Ratio	Lower	Upper
152	100		
115	59.1	28.1	84.2
150	161.9	0.0	352.0

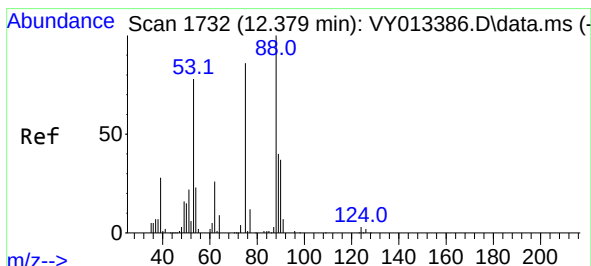
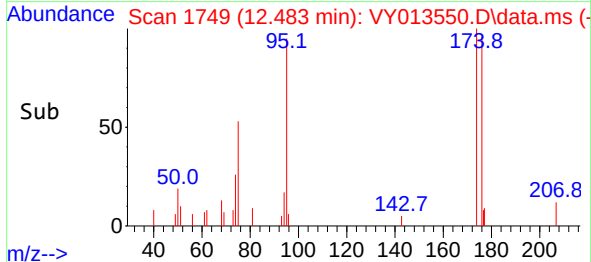
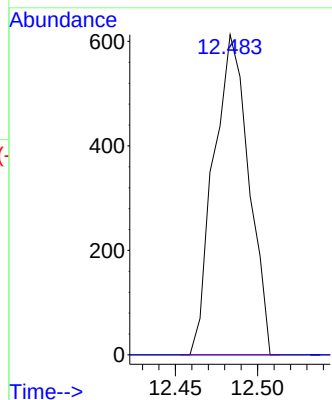
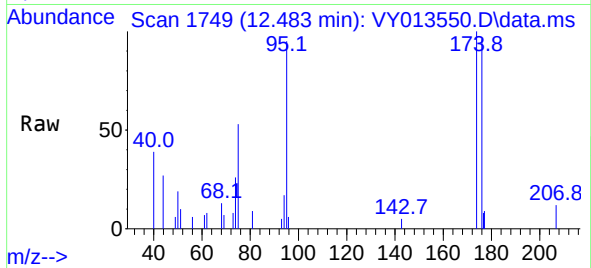




#76
1,2,3-Trichloropropane
Concen: 42.766 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.146 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

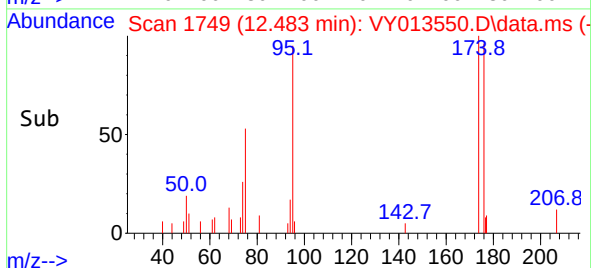
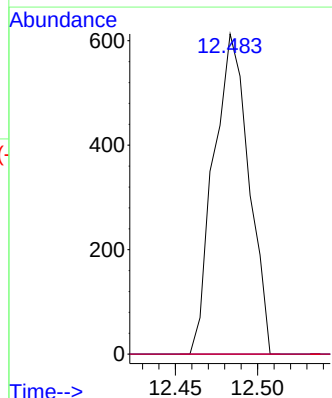
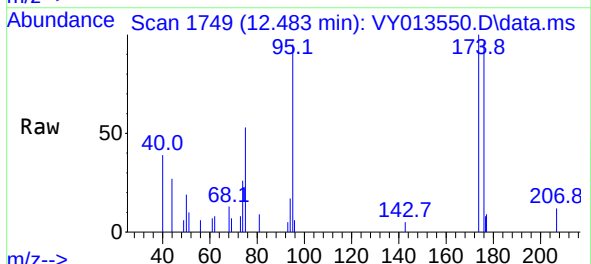
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

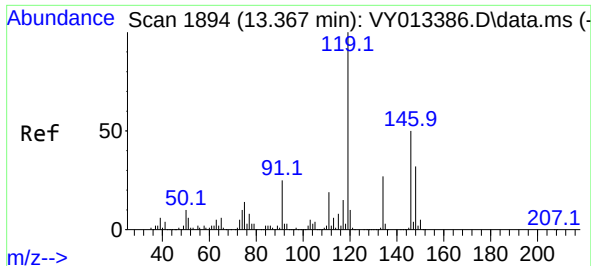
Tgt Ion: 75 Resp: 913
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0



#81
trans-1,4-Dichloro-2-butene
Concen: 87.480 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. 0.104 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion: 75 Resp: 913
Ion Ratio Lower Upper
75 100
53 0.0 73.2 109.8#
89 0.0 38.0 57.0#

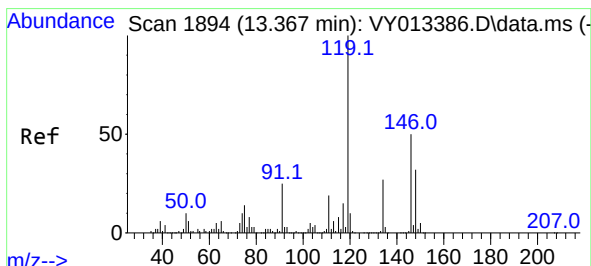
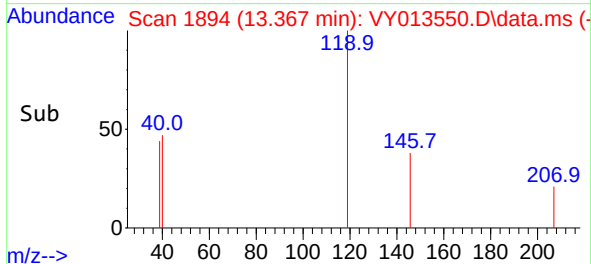
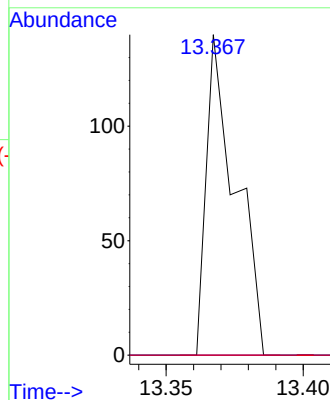
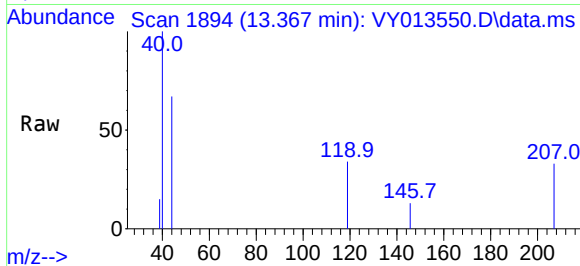




#86
p-Isopropyltoluene
Concen: 1.008 ug/l
RT: 13.367 min Scan# 1894
Delta R.T. 0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

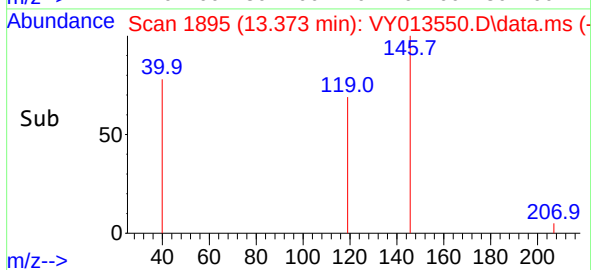
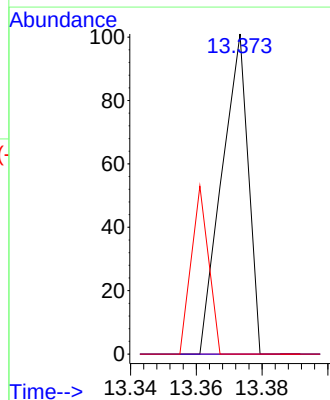
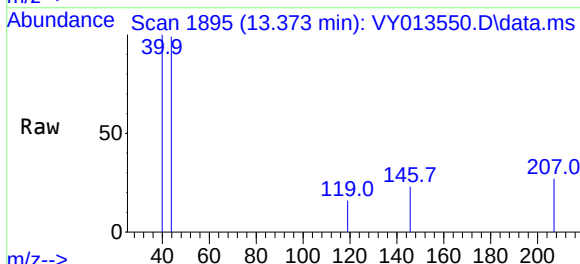
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

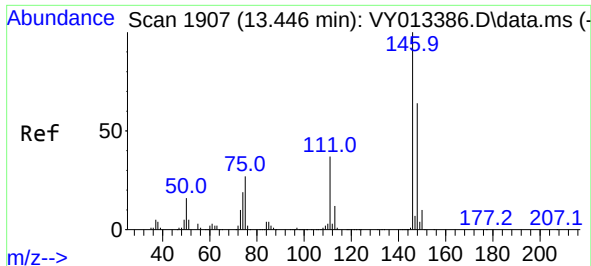
Tgt Ion:	119	Resp:	103
Ion	Ratio	Lower	Upper
119	100		
134	0.0	13.4	40.2#
91	0.0	12.1	36.3#



#87
1,3-Dichlorobenzene
Concen: 1.013 ug/l
RT: 13.373 min Scan# 1895
Delta R.T. 0.006 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion:	146	Resp:	56
Ion	Ratio	Lower	Upper
146	100		
111	0.0	19.3	57.9#
148	33.9	31.9	95.7

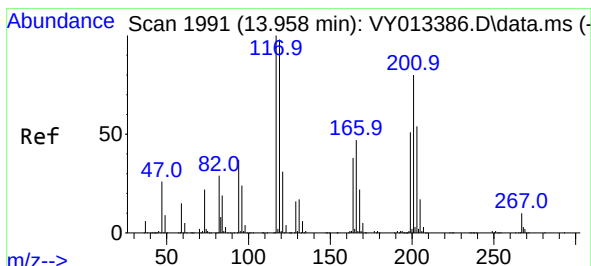
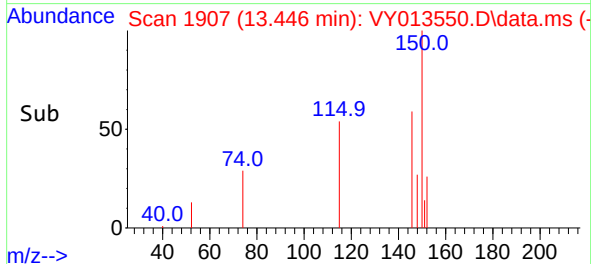
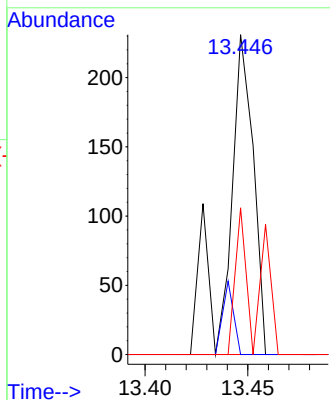
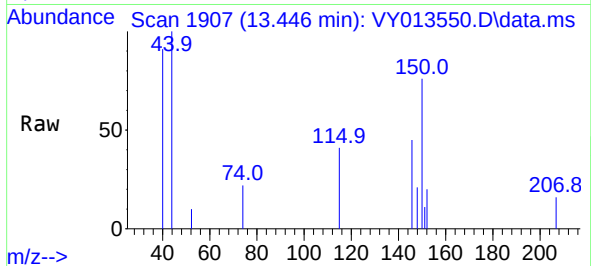




#88
1,4-Dichlorobenzene
Concen: 3.618 ug/l
RT: 13.446 min Scan# 1907
Delta R.T. 0.000 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

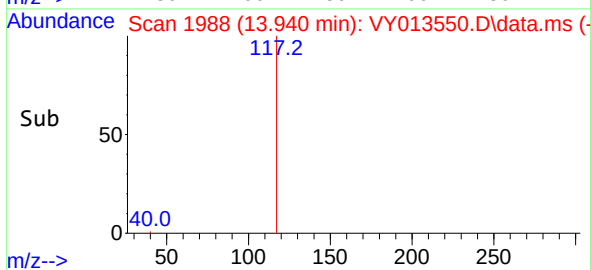
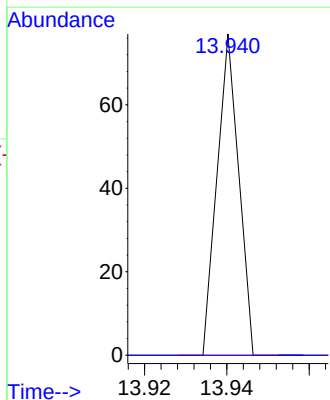
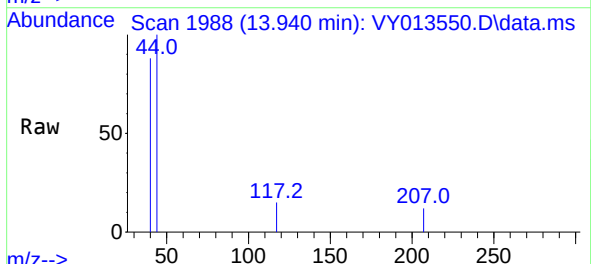
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

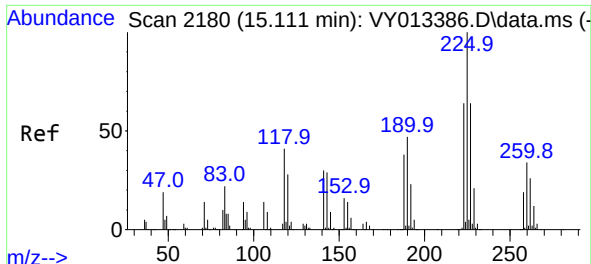
Tgt Ion:146 Resp: 202
Ion Ratio Lower Upper
146 100
111 9.4 18.9 56.5#
148 36.1 31.9 95.5



#90
Hexachloroethane
Concen: 1.302 ug/l
RT: 13.940 min Scan# 1988
Delta R.T. -0.018 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

Tgt Ion:117 Resp: 28
Ion Ratio Lower Upper
117 100
201 0.0 41.6 124.8#

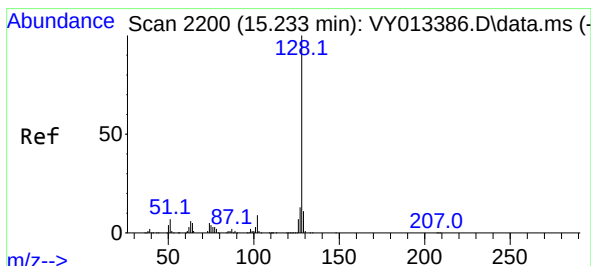
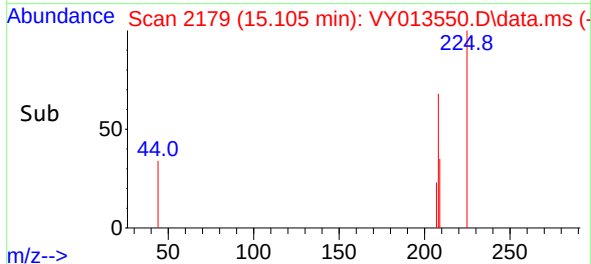
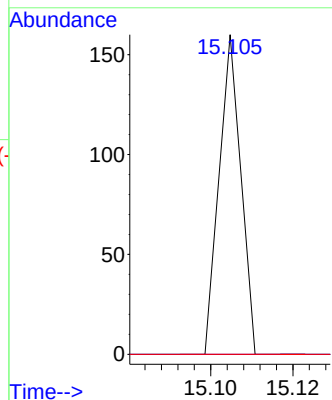
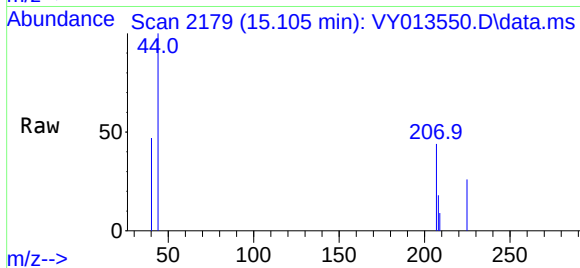




#94
Hexachlorobutadiene
Concen: 3.407 ug/l
RT: 15.105 min Scan# 2180
Delta R.T. -0.006 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

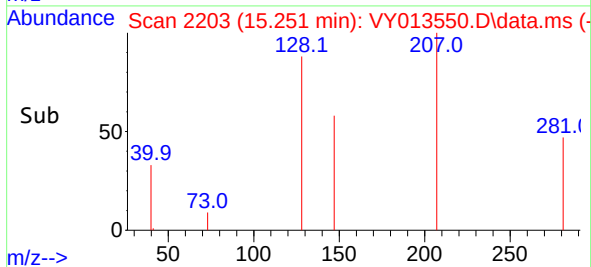
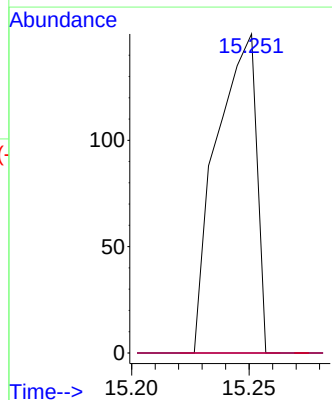
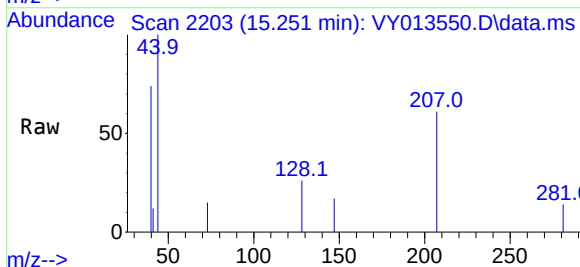
Instrument :
MSVOA_Y
ClientSampleId :
JC-03-042823-A

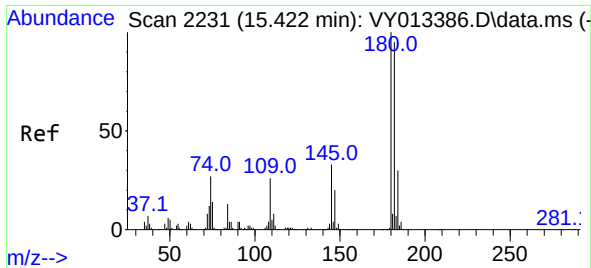
Tgt Ion:225 Resp: 59
Ion Ratio Lower Upper
225 100
223 0.0 31.4 94.2#
227 0.0 32.0 96.0#



#95
Naphthalene
Concen: 2.741 ug/l
RT: 15.251 min Scan# 2203
Delta R.T. 0.018 min
Lab File: VY013550.D
Acq: 02 May 2023 12:39

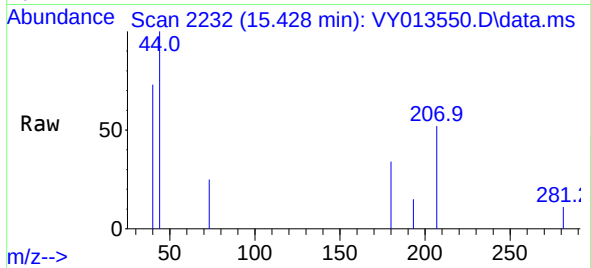
Tgt Ion:128 Resp: 177
Ion Ratio Lower Upper
128 100
127 0.0 10.7 16.1#
129 0.0 8.8 13.2#





#96
 1,2,3-Trichlorobenzene
 Concen: 4.336 ug/l
 RT: 15.428 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY013550.D
 Acq: 02 May 2023 12:39

Instrument :
 MSVOA_Y
 ClientSampleId :
 JC-03-042823-A



Tgt Ion:	180	Resp:	115
Ion	Ratio	Lower	Upper
180	100		
182	41.7	47.1	141.3#
145	0.0	15.9	47.7#

