

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY070522\
 Data File : VY009436.D
 Acq On : 05 Jul 2022 14:44
 Operator : KP/MD
 Sample : N3568-01
 Misc : 5.09g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 11 Sample Multiplier: 1

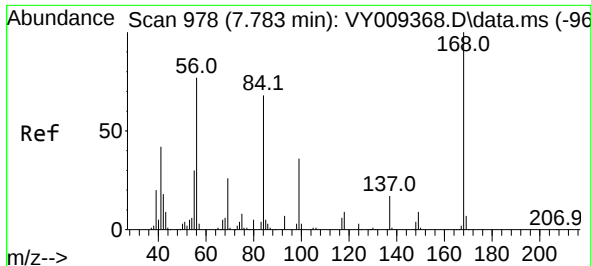
Instrument :
 MSVOA_Y
 ClientSampleId :
 TR-05-07012022

Quant Time: Jul 06 04:50:06 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y062822S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 29 17:35:34 2022
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.789	168	1971	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	3184	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.483	117	3198	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	1086	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.130	65	1129	71.515	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 143.020%	
35) Dibromofluoromethane	7.704	113	294	16.777	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 33.560%#	
50) Toluene-d8	10.179	98	2918	54.310	ug/l	0.00
Spiked Amount	50.000	Range	78 - 125	Recovery	= 108.620%	
62) 4-Bromofluorobenzene	12.483	95	909	35.673	ug/l	0.00
Spiked Amount	50.000	Range	50 - 146	Recovery	= 71.340%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.851	85	19	1.171	ug/l #	43
3) Chloromethane	2.101	50	159	9.006	ug/l #	44
4) Vinyl Chloride	2.272	62	23	1.126	ug/l #	43
5) Bromomethane	2.662	94	173	13.200	ug/l #	72
6) Chloroethane	2.826	64	23	2.112	ug/l #	43
10) Methyl Iodide	4.082	142	458	21.481	ug/l #	64
12) 1,1-Dichloroethene	3.851	96	22	1.242	ug/l #	1
13) Acrolein	3.851	56	20	15.179	ug/l #	14
16) Acetone	3.936	43	26	5.015	ug/l #	47
20) Methylene Chloride	4.710	84	101	Below Cal	#	1
23) Vinyl Acetate	5.978	43	47	1.095	ug/l #	75
25) 2-Butanone	6.954	43	73	8.881	ug/l #	54
36) 1,1-Dichloropropene	7.764	75	105	3.427	ug/l #	42
37) Ethyl Acetate	6.954	43	73	4.017	ug/l #	72
38) Carbon Tetrachloride	7.783	117	65	2.030	ug/l #	11
41) Methacrylonitrile	7.429	41	22	2.143	ug/l #	1
43) Isopropyl Acetate	7.996	43	46	1.379	ug/l #	56
46) Dibromomethane	9.423	93	23	1.769	ug/l #	3
48) Methyl methacrylate	9.343	41	18	1.252	ug/l #	17
51) 4-Methyl-2-Pentanone	10.093	43	20	1.163	ug/l #	40
59) 2-Hexanone	10.971	43	21	1.767	ug/l #	28
74) N-amyl acetate	12.099	43	56	2.661	ug/l #	47
75) 1,1,2,2-Tetrachloroethane	12.422	83	50	3.218	ug/l #	26
76) 1,2,3-Trichloropropane	12.477	75	399	31.373	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	399	69.851	ug/l #	7

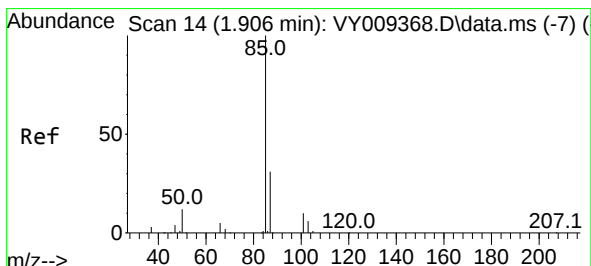
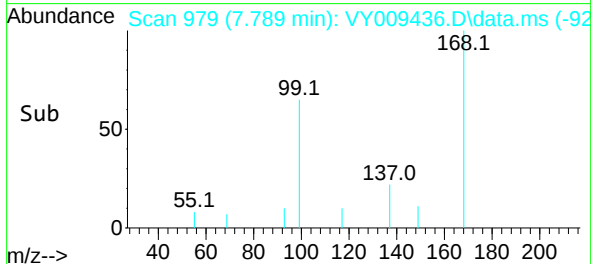
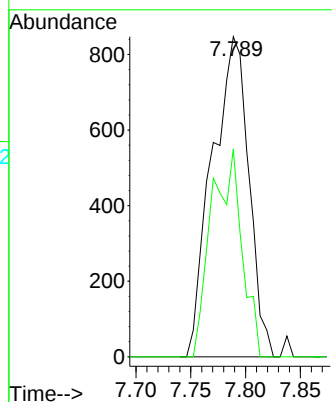
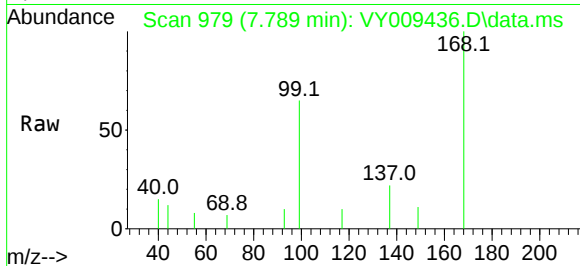
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

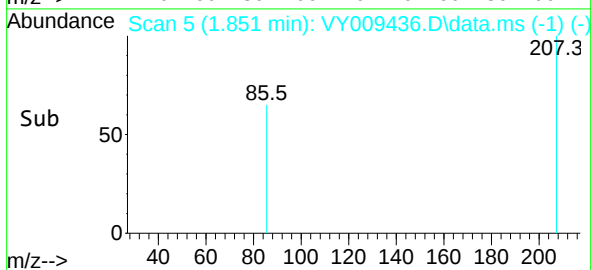
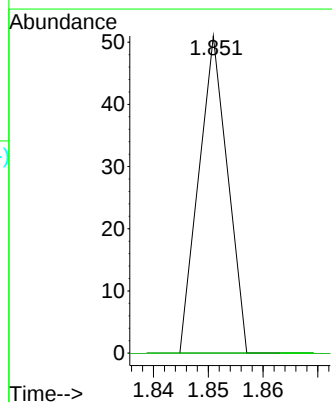
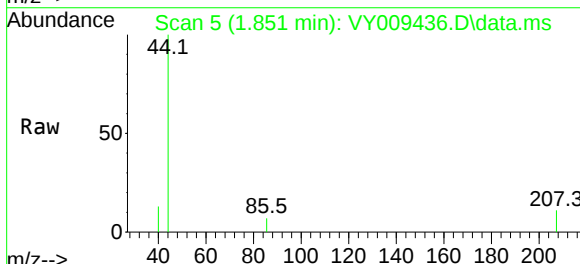
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

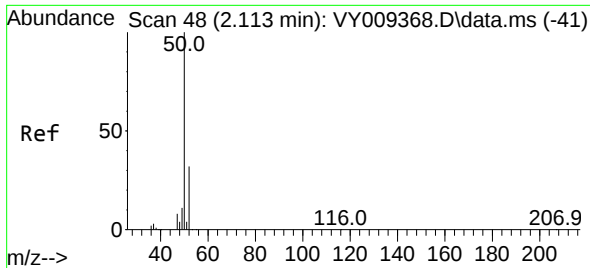
Tgt Ion:168 Resp: 1971
Ion Ratio Lower Upper
168 100
99 64.9 46.9 70.3



#2
Dichlorodifluoromethane
Concen: 1.171 ug/l
RT: 1.851 min Scan# 5
Delta R.T. -0.049 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 85 Resp: 19
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

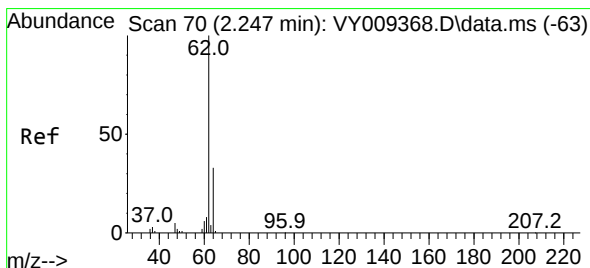
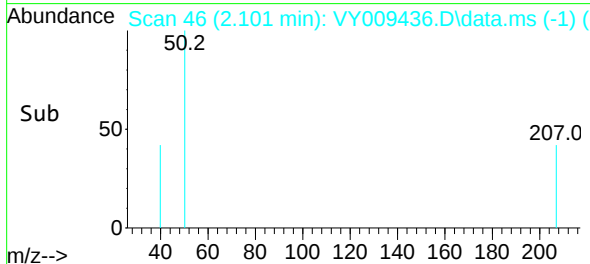
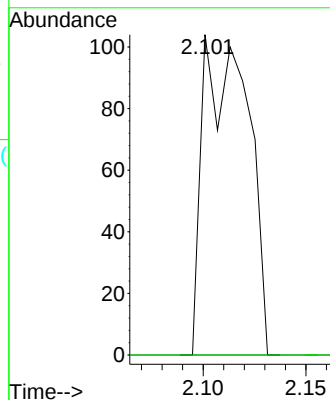
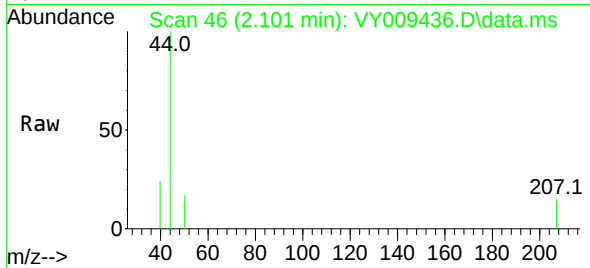




#3
Chloromethane
Concen: 9.006 ug/l
RT: 2.101 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

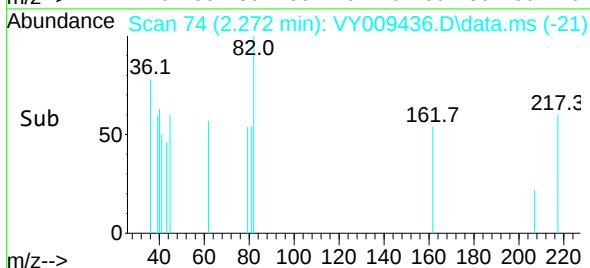
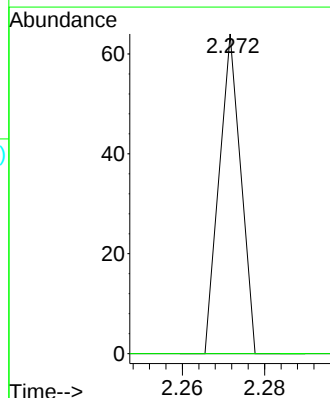
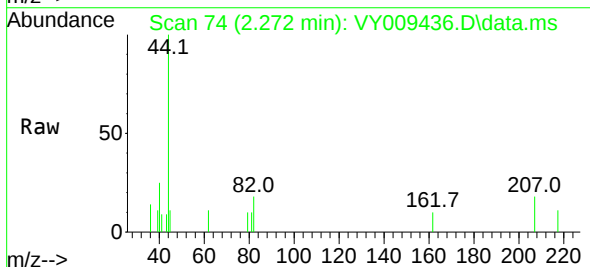
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

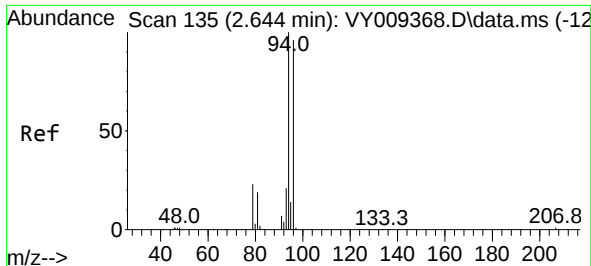
Tgt Ion: 50 Resp: 159
Ion Ratio Lower Upper
50 100
52 0.0 24.6 37.0#



#4
Vinyl Chloride
Concen: 1.126 ug/l
RT: 2.272 min Scan# 74
Delta R.T. 0.025 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 62 Resp: 23
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#

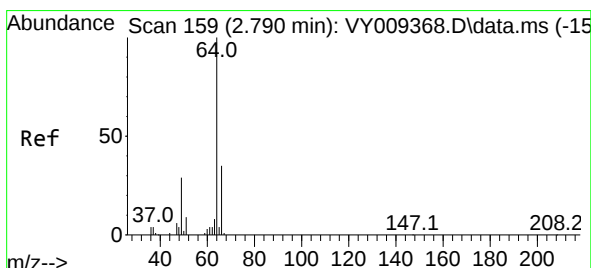
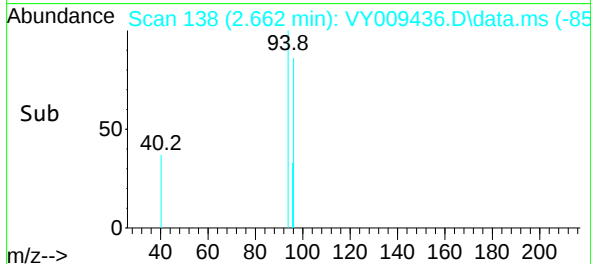
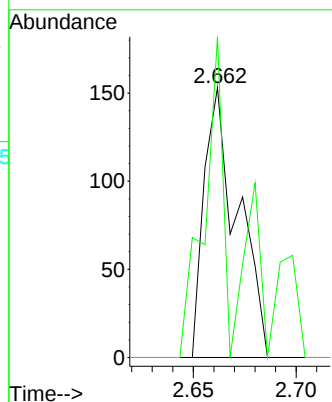
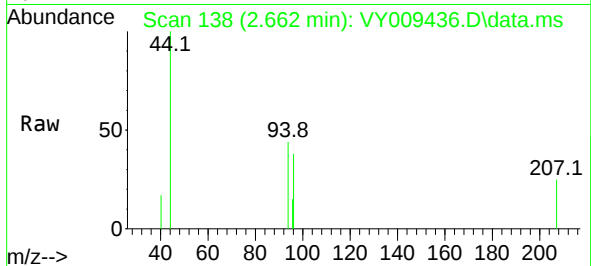




#5
Bromomethane
Concen: 13.200 ug/l
RT: 2.662 min Scan# 11
Delta R.T. 0.025 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

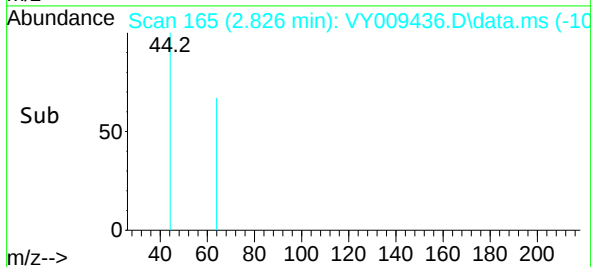
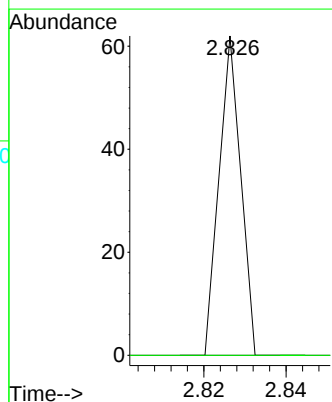
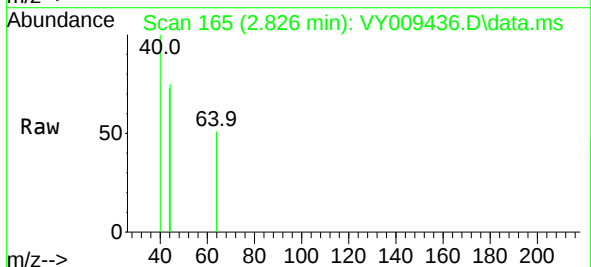
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

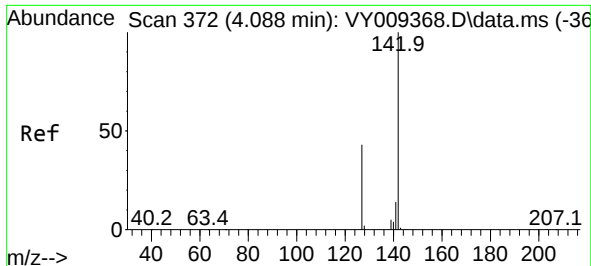
Tgt Ion: 94 Resp: 173
Ion Ratio Lower Upper
94 100
96 119.0 73.5 110.3#



#6
Chloroethane
Concen: 2.112 ug/l
RT: 2.826 min Scan# 165
Delta R.T. 0.042 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

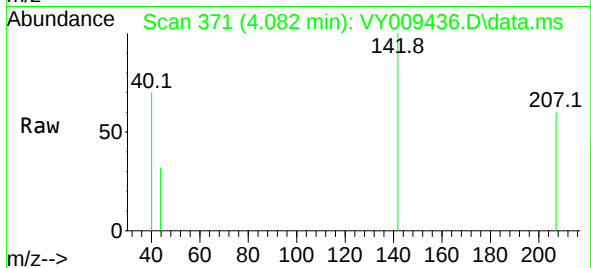
Tgt Ion: 64 Resp: 23
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.0#



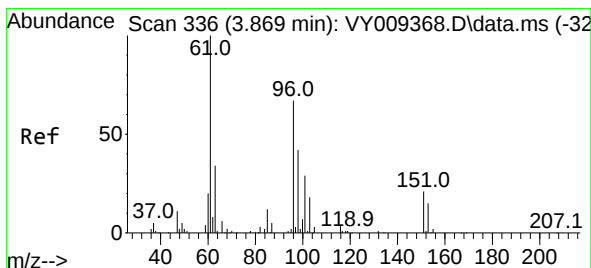
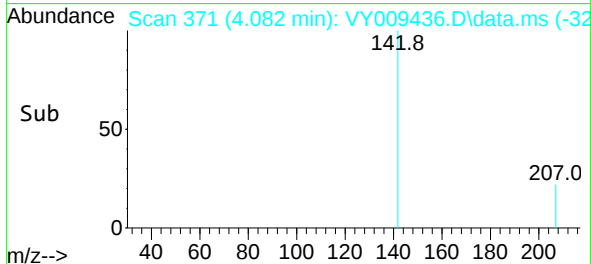
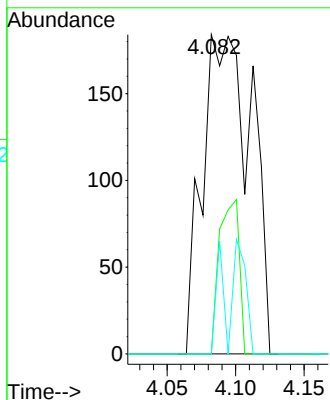


#10
Methyl Iodide
Concen: 21.481 ug/l
RT: 4.082 min Scan# 31
Delta R.T. 0.000 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

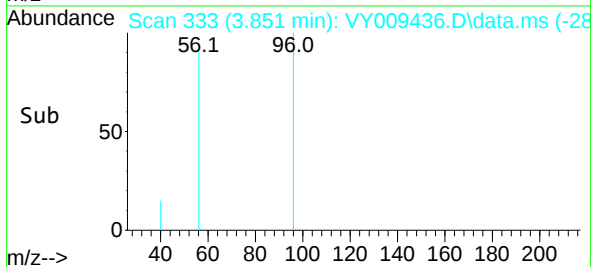
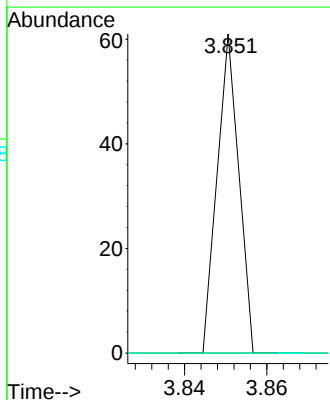
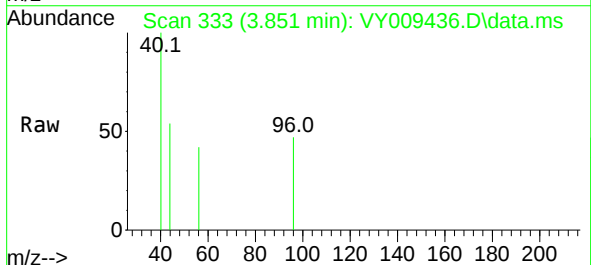


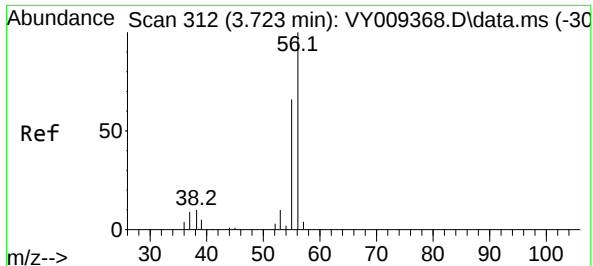
Tgt Ion:142 Resp: 458
Ion Ratio Lower Upper
142 100
127 19.4 41.5 62.3#
141 14.6 11.9 17.9



#12
1,1-Dichloroethene
Concen: 1.242 ug/l
RT: 3.851 min Scan# 333
Delta R.T. -0.012 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 96 Resp: 22
Ion Ratio Lower Upper
96 100
61 0.0 145.8 218.6#
98 0.0 52.5 78.7#





#13

Acrolein

Concen: 15.179 ug/l

RT: 3.851 min Scan# 312

Delta R.T. 0.128 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

Instrument :

MSVOA_Y

ClientSampleId :

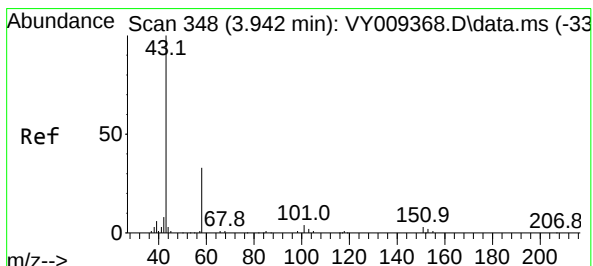
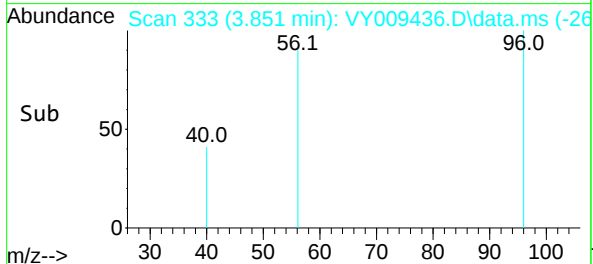
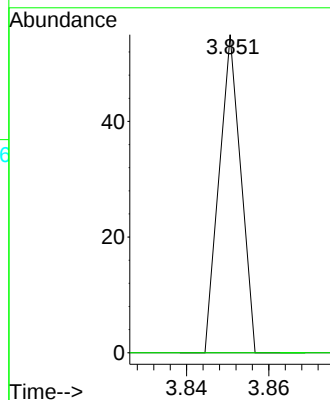
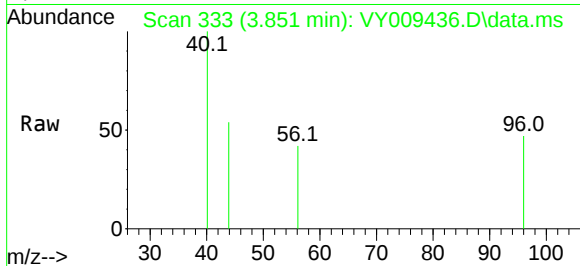
TR-05-07012022

Tgt Ion: 56 Resp: 20

Ion Ratio Lower Upper

56 100

55 0.0 57.6 86.4#



#16

Acetone

Concen: 5.015 ug/l

RT: 3.936 min Scan# 347

Delta R.T. -0.006 min

Lab File: VY009436.D

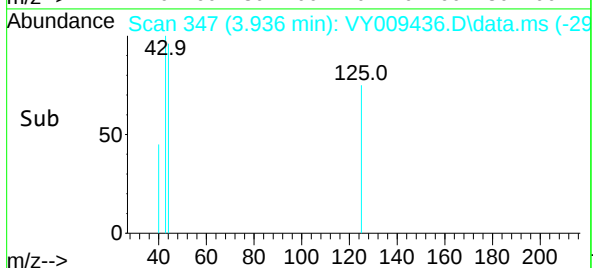
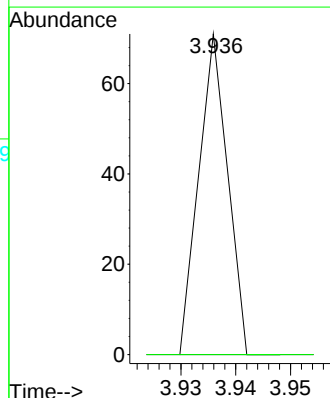
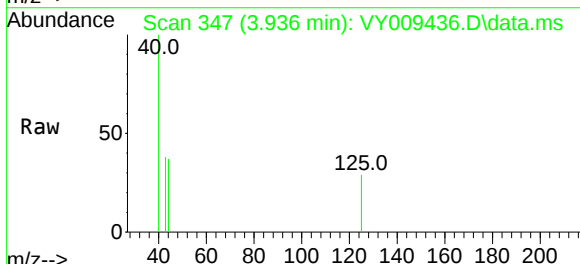
Acq: 05 Jul 2022 14:44

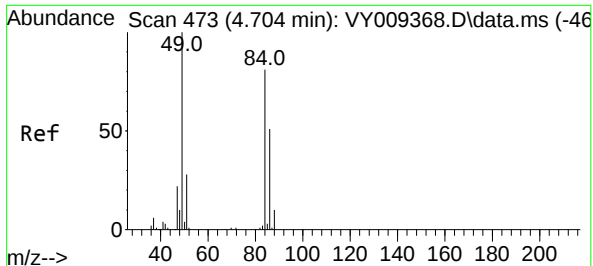
Tgt Ion: 43 Resp: 26

Ion Ratio Lower Upper

43 100

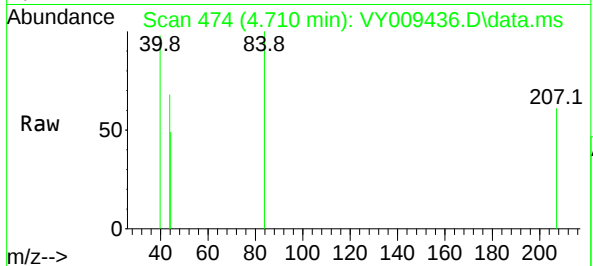
58 0.0 22.0 33.0#



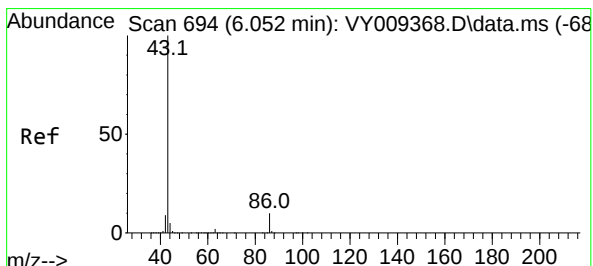
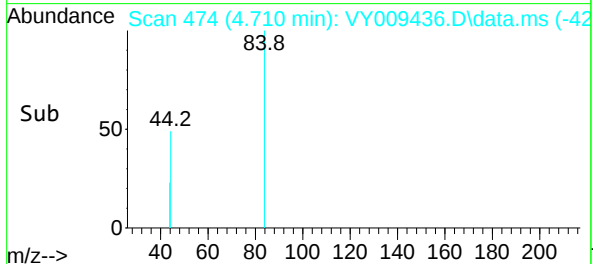
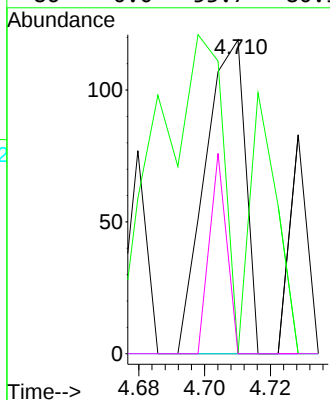


#20
Methylene Chloride
Concen: Below Cal
RT: 4.710 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

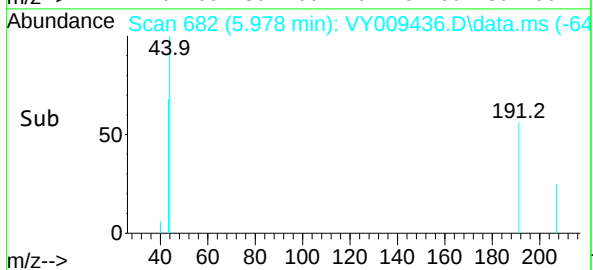
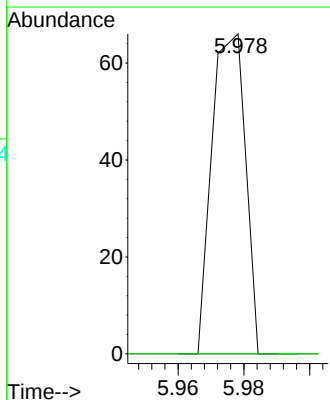
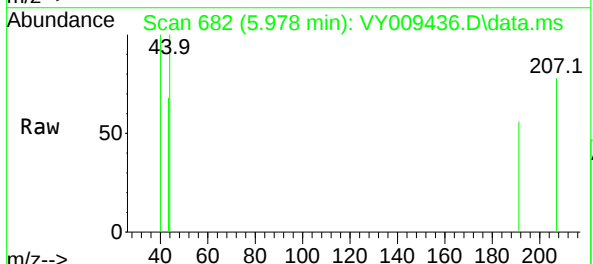


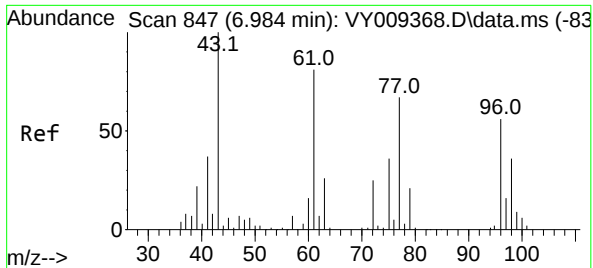
Tgt Ion: 84 Resp: 101
Ion Ratio Lower Upper
84 100
49 0.0 114.4 171.6#
51 0.0 35.3 52.9#
86 0.0 53.7 80.5#



#23
Vinyl Acetate
Concen: 1.095 ug/l
RT: 5.978 min Scan# 682
Delta R.T. -0.073 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 43 Resp: 47
Ion Ratio Lower Upper
43 100
86 0.0 7.1 10.7#





#25

2-Butanone

Concen: 8.881 ug/l

RT: 6.954 min Scan# 84

Delta R.T. -0.024 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

Instrument :

MSVOA_Y

ClientSampleId :

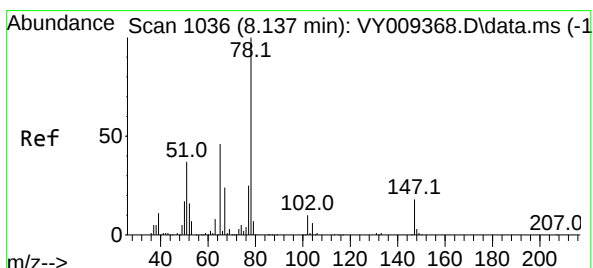
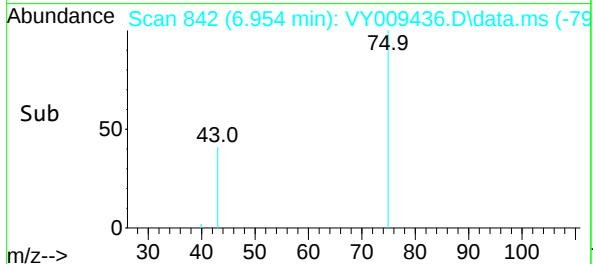
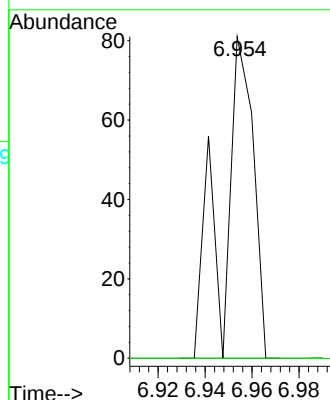
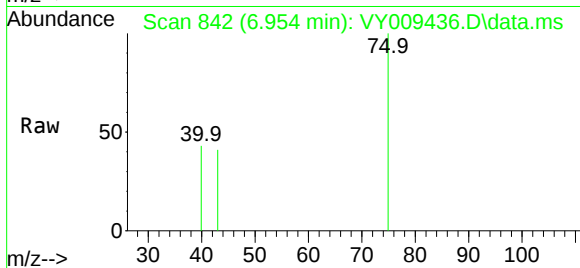
TR-05-07012022

Tgt Ion: 43 Resp: 73

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#33

1,2-Dichloroethane-d4

Concen: 71.515 ug/l

RT: 8.130 min Scan# 1035

Delta R.T. -0.006 min

Lab File: VY009436.D

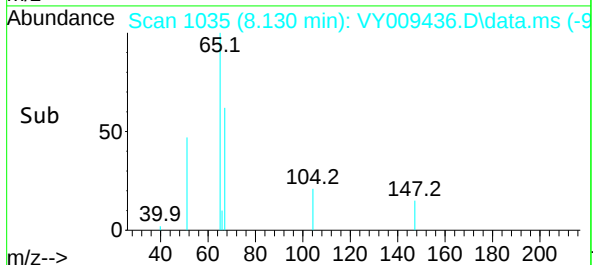
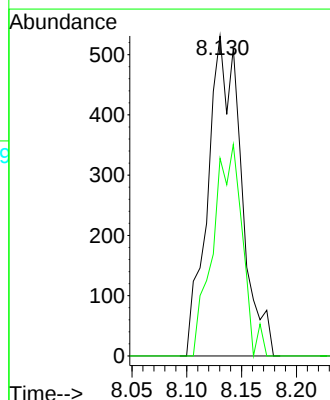
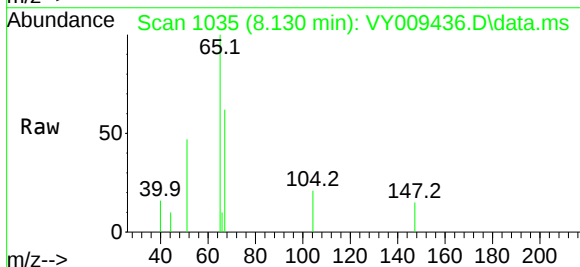
Acq: 05 Jul 2022 14:44

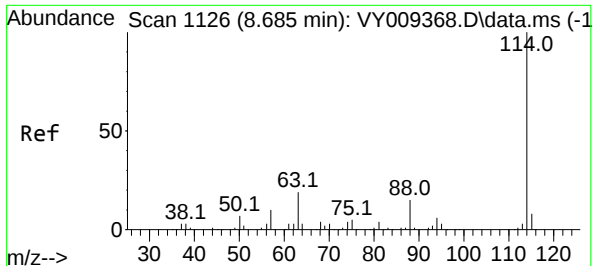
Tgt Ion: 65 Resp: 1129

Ion Ratio Lower Upper

65 100

67 57.8 0.0 99.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

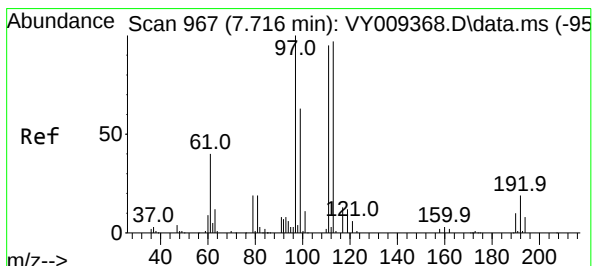
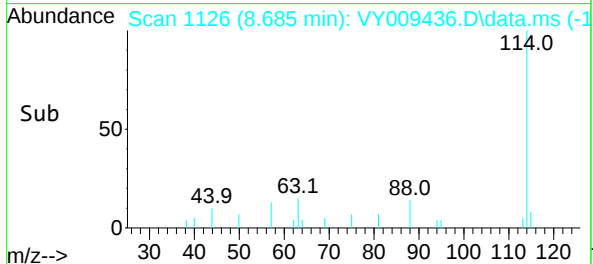
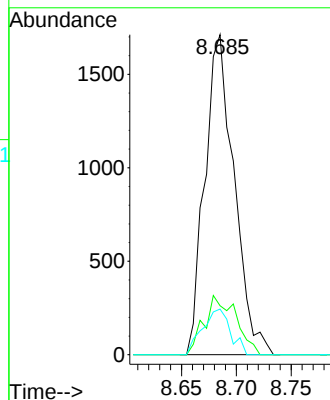
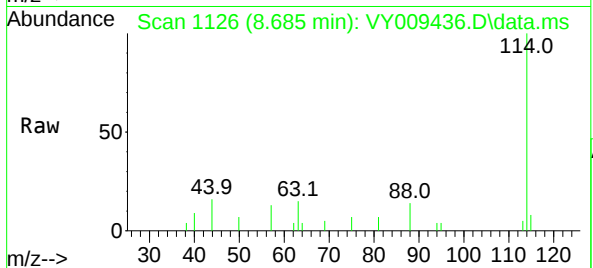
Instrument :

MSVOA_Y

ClientSampleId :

TR-05-07012022

Tgt Ion:114	Resp:	3184
Ion	Ratio	Lower Upper
114	100	
63	15.3	0.0 43.2
88	14.3	0.0 31.8



#35

Dibromofluoromethane

Concen: 16.777 ug/l

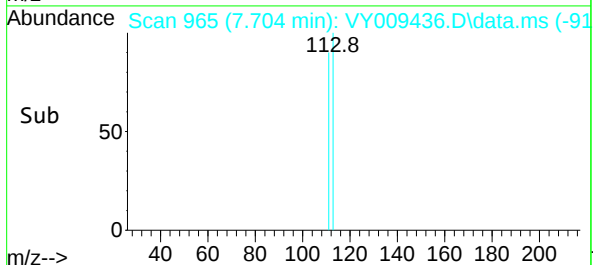
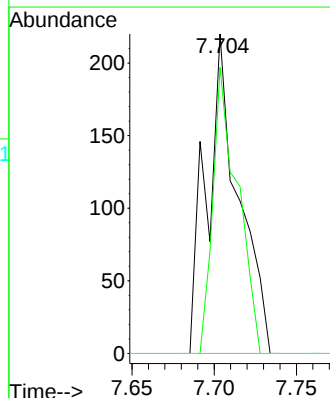
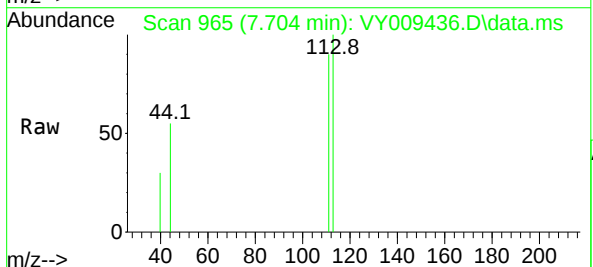
RT: 7.704 min Scan# 965

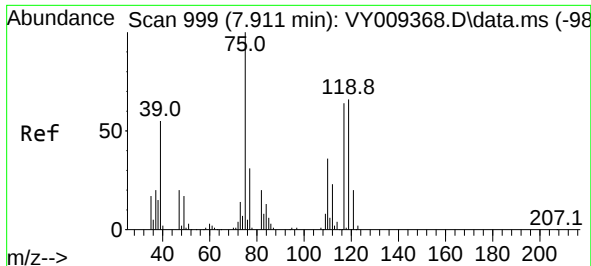
Delta R.T. -0.006 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

Tgt Ion:113	Resp:	294
Ion	Ratio	Lower Upper
113	100	
111	69.7	82.6 124.0#
192	0.0	17.6 26.4#

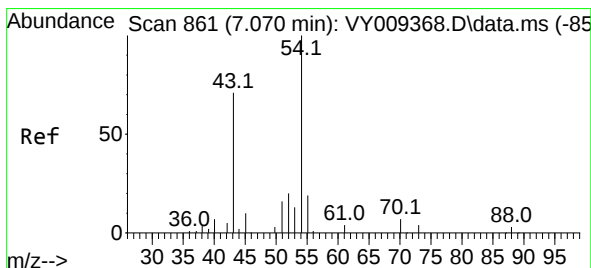
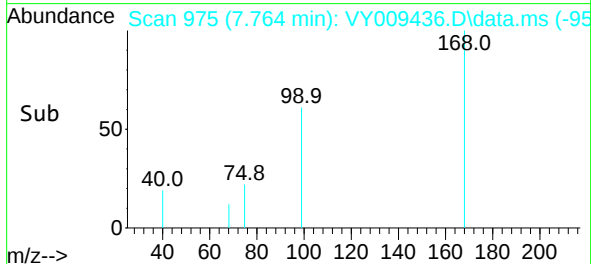
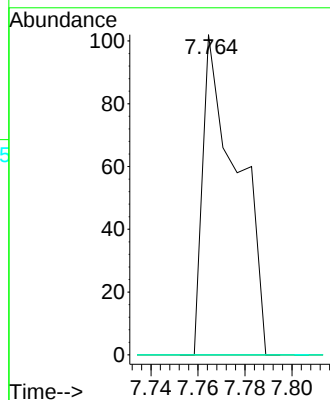
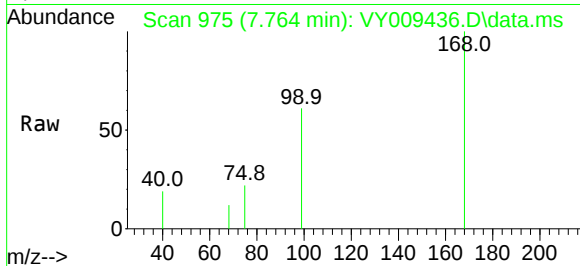




#36
1,1-Dichloropropene
Concen: 3.427 ug/l
RT: 7.764 min Scan# 91
Delta R.T. -0.147 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

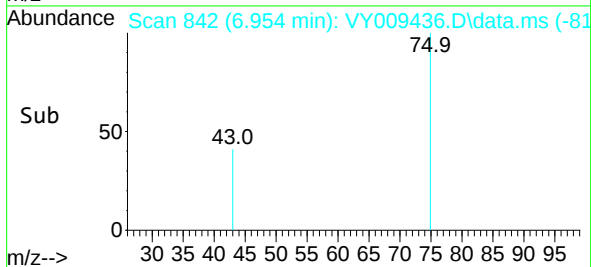
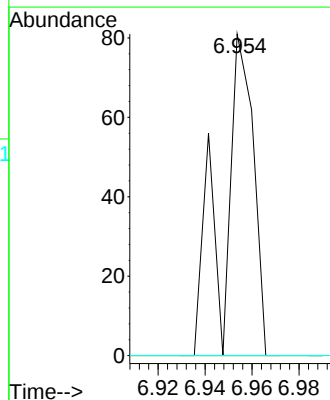
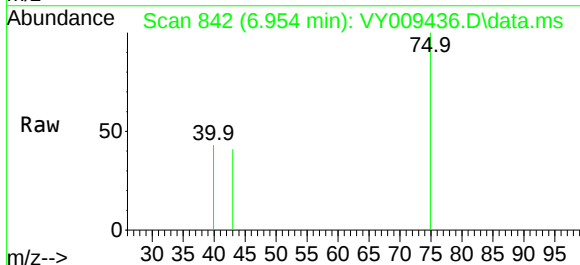
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

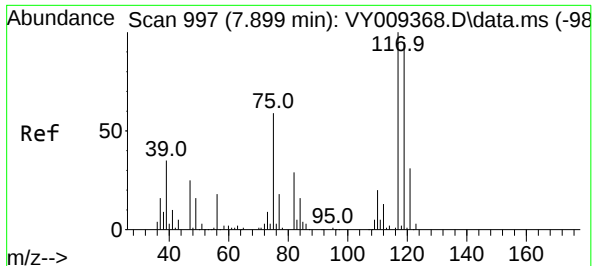
Tgt Ion: 75 Resp: 105
Ion Ratio Lower Upper
75 100
110 0.0 17.1 51.2#
77 0.0 24.4 36.6#



#37
Ethyl Acetate
Concen: 4.017 ug/l
RT: 6.954 min Scan# 842
Delta R.T. -0.116 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 43 Resp: 73
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.0 7.1 10.7#

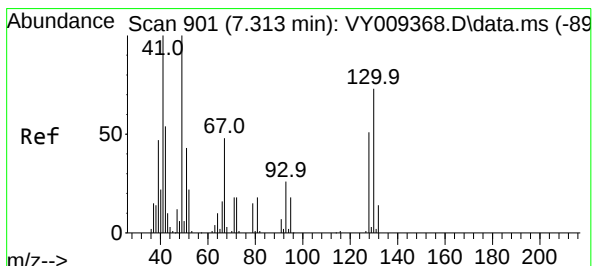
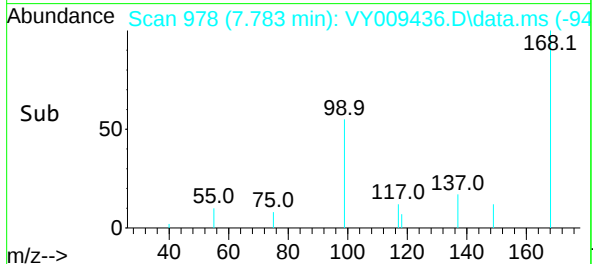
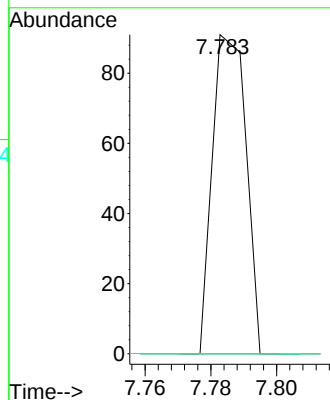
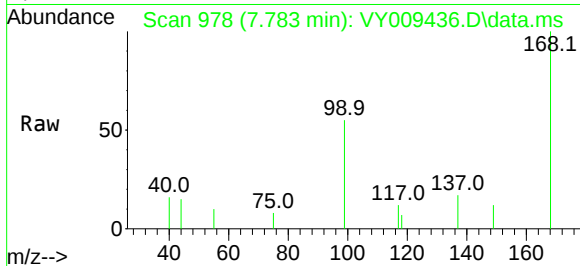




#38
Carbon Tetrachloride
Concen: 2.030 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.110 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

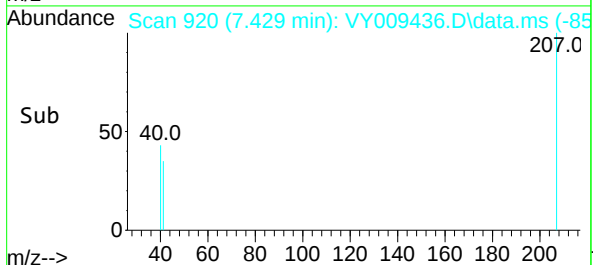
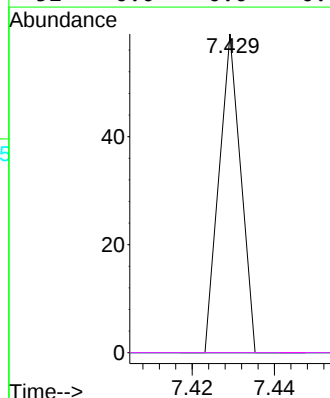
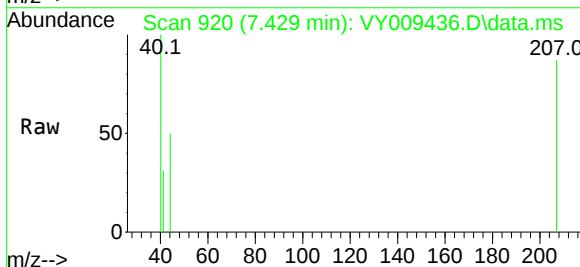
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

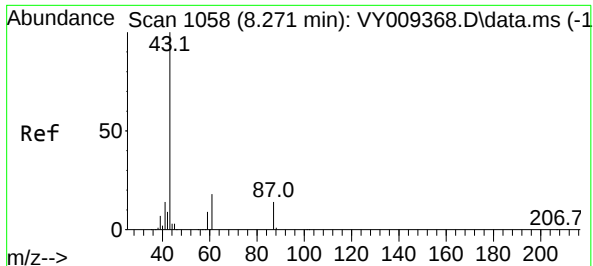
Tgt Ion:117 Resp: 65
Ion Ratio Lower Upper
117 100
119 0.0 77.9 116.9#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 2.143 ug/l
RT: 7.429 min Scan# 920
Delta R.T. 0.128 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

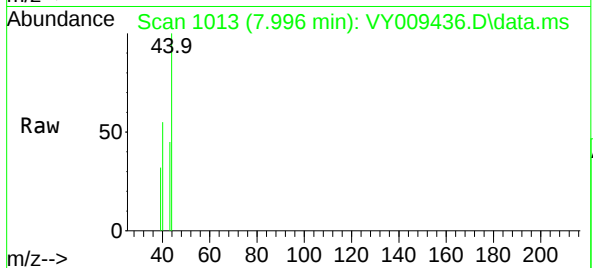
Tgt Ion: 41 Resp: 22
Ion Ratio Lower Upper
41 100
39 0.0 92.9 139.3#
67 0.0 0.0 0.0
52 0.0 0.0 0.0



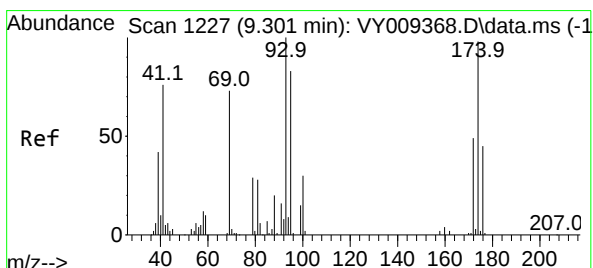
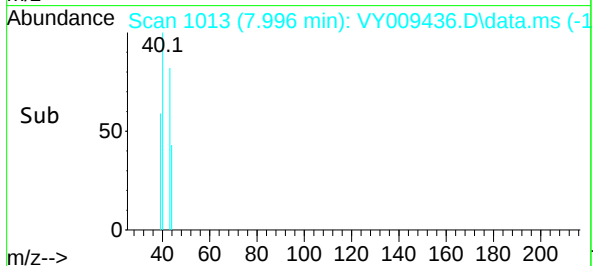
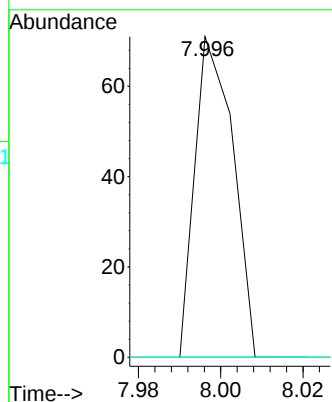


#43
Isopropyl Acetate
Concen: 1.379 ug/l
RT: 7.996 min Scan# 1058
Delta R.T. -0.275 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

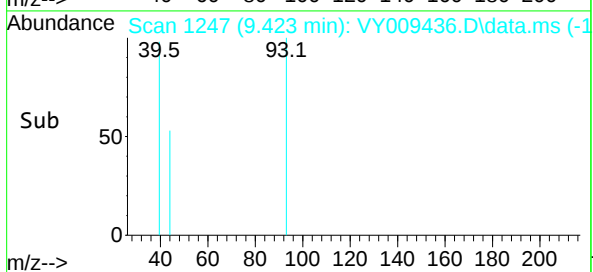
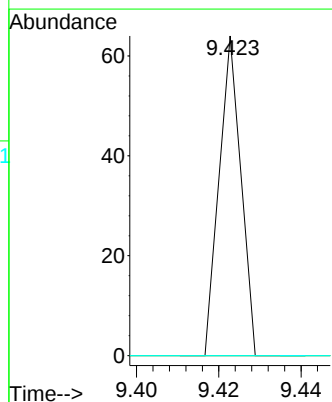
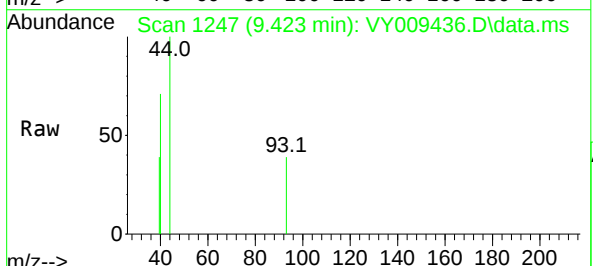


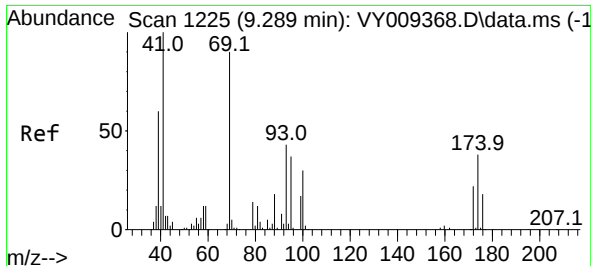
Tgt Ion: 43 Resp: 46
Ion Ratio Lower Upper
43 100
61 0.0 20.2 30.2#
87 0.0 8.9 13.3#



#46
Dibromomethane
Concen: 1.769 ug/l
RT: 9.423 min Scan# 1247
Delta R.T. 0.122 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 93 Resp: 23
Ion Ratio Lower Upper
93 100
95 0.0 64.3 96.5#
174 0.0 83.4 125.0#

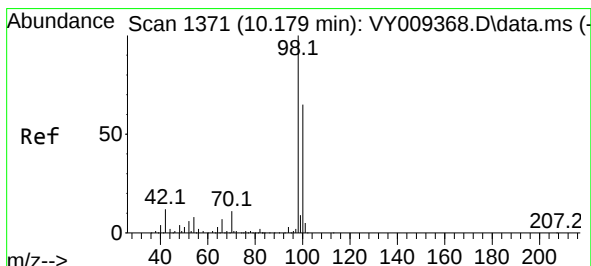
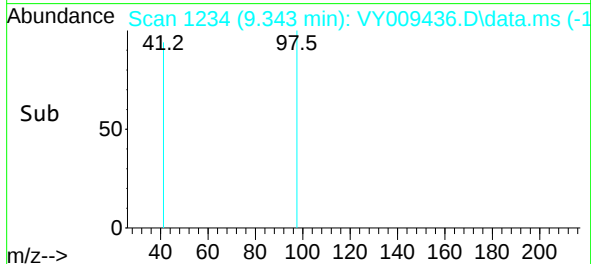
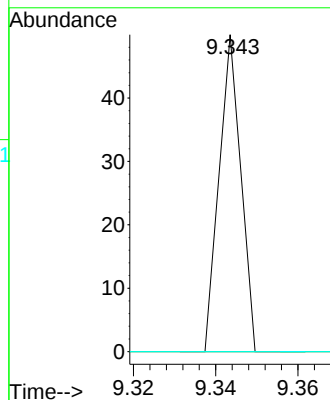
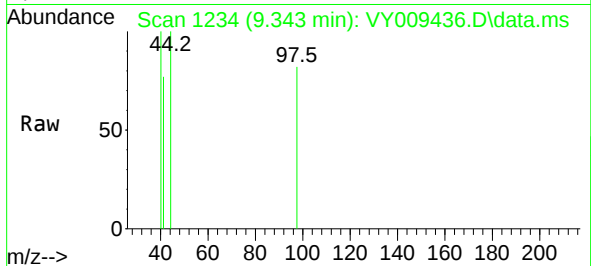




#48
Methyl methacrylate
Concen: 1.252 ug/l
RT: 9.343 min Scan# 11
Delta R.T. 0.054 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

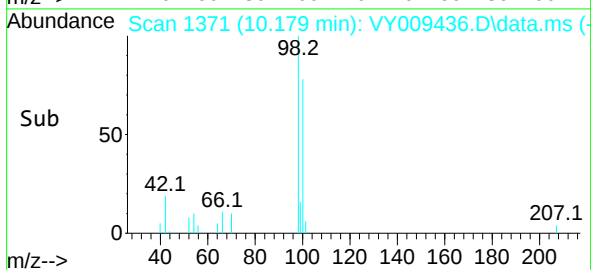
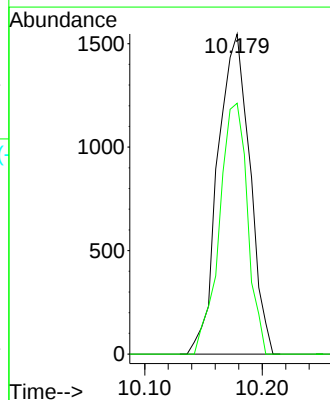
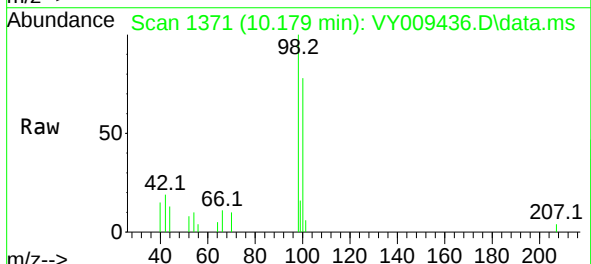
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

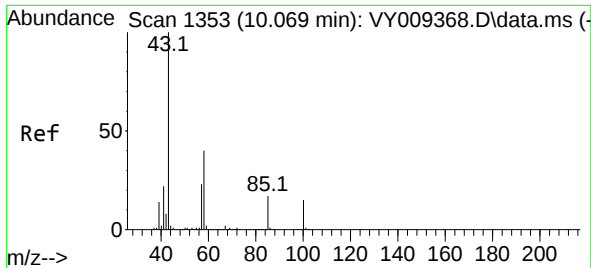
Tgt Ion: 41 Resp: 18
Ion Ratio Lower Upper
41 100
69 0.0 58.2 87.2#
39 0.0 47.4 71.0#



#50
Toluene-d8
Concen: 54.310 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 98 Resp: 2918
Ion Ratio Lower Upper
98 100
100 69.1 50.2 75.2





#51

4-Methyl-2-Pentanone

Concen: 1.163 ug/l

RT: 10.093 min Scan# 11

Delta R.T. 0.024 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

Instrument :

MSVOA_Y

ClientSampleId :

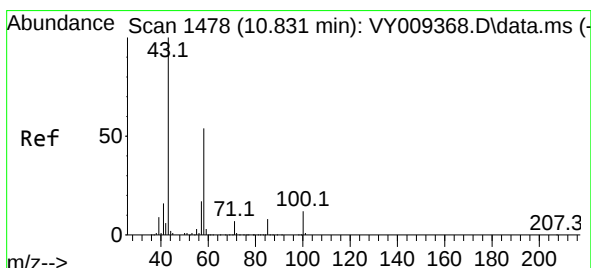
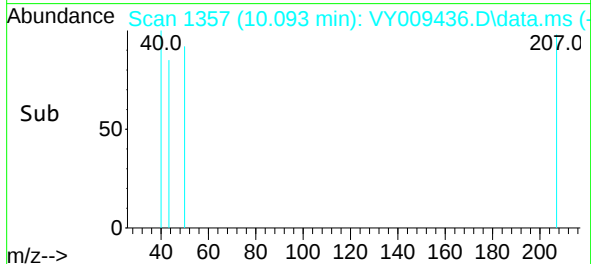
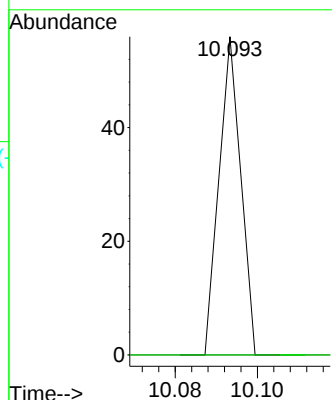
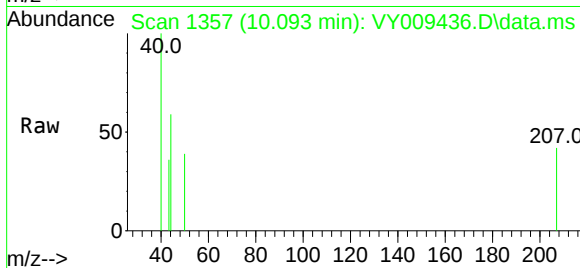
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Tgt Ion: 43 Resp: 20

Ion Ratio Lower Upper

43 100

58 0.0 28.1 42.1#



#59

2-Hexanone

Concen: 1.767 ug/l

RT: 10.971 min Scan# 1501

Delta R.T. 0.140 min

Lab File: VY009436.D

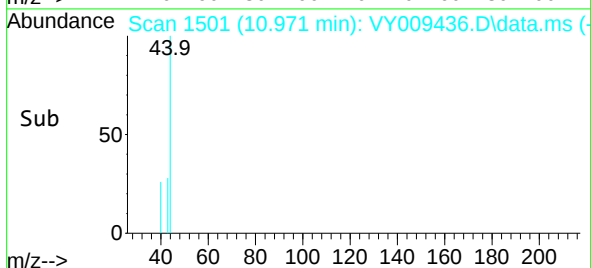
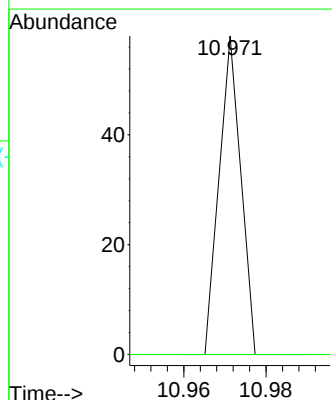
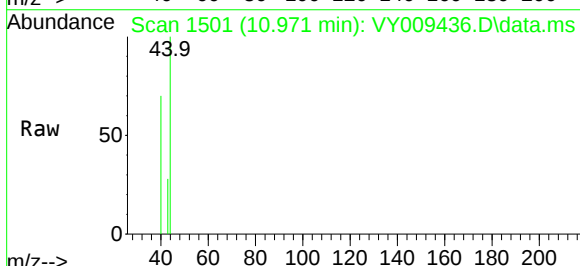
Acq: 05 Jul 2022 14:44

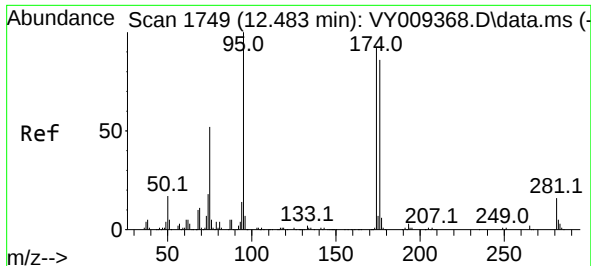
Tgt Ion: 43 Resp: 21

Ion Ratio Lower Upper

43 100

58 0.0 24.4 73.4#





#62

4-Bromofluorobenzene

Concen: 35.673 ug/l

RT: 12.483 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

Instrument :

MSVOA_Y

ClientSampleId :

TR-05-07012022

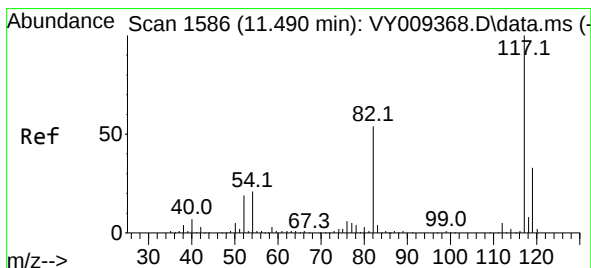
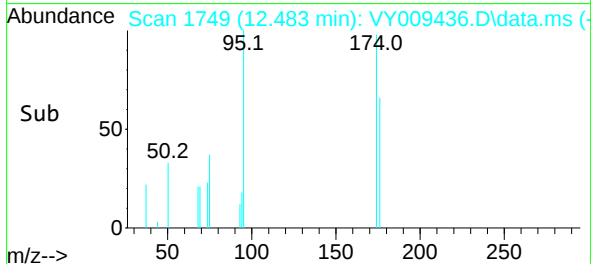
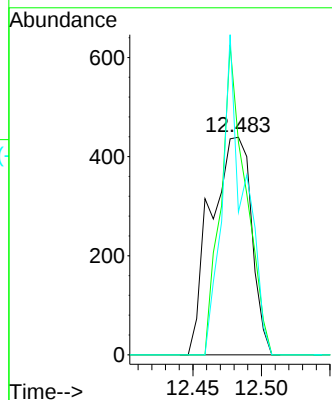
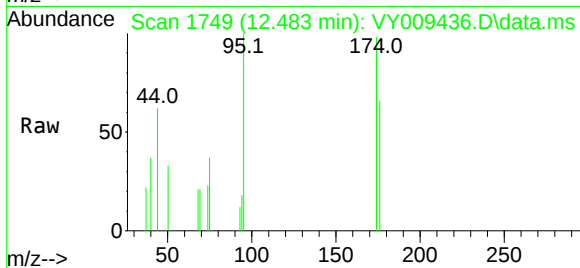
Tgt Ion: 95 Resp: 909

Ion Ratio Lower Upper

95 100

174 86.9 0.0 177.0

176 81.5 0.0 175.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.483 min Scan# 1585

Delta R.T. -0.007 min

Lab File: VY009436.D

Acq: 05 Jul 2022 14:44

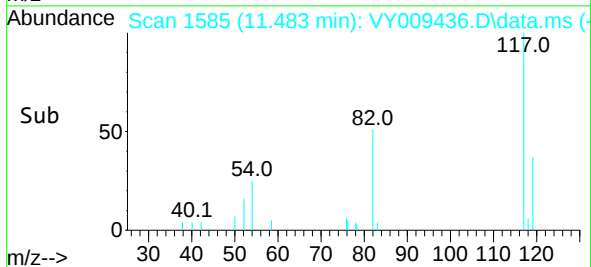
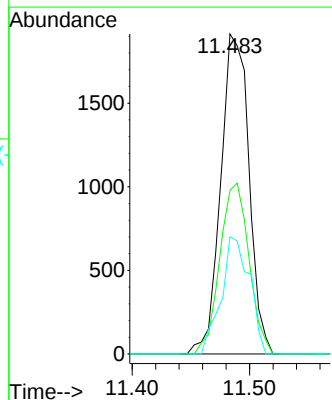
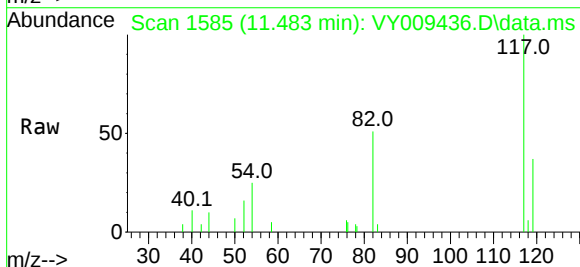
Tgt Ion: 117 Resp: 3198

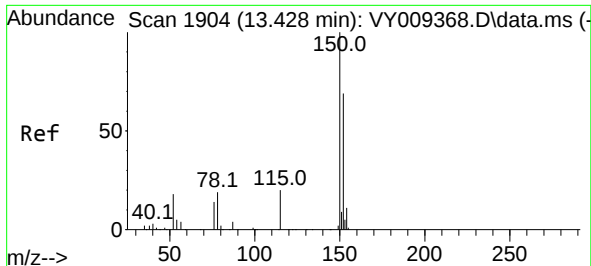
Ion Ratio Lower Upper

117 100

82 51.1 43.0 64.4

119 36.6 25.4 38.0

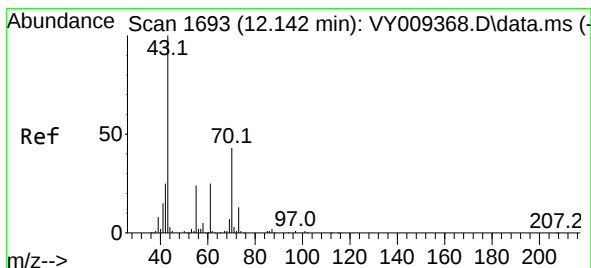
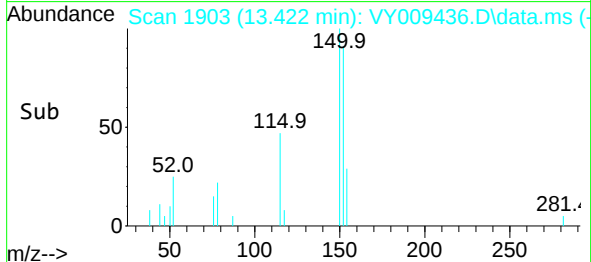
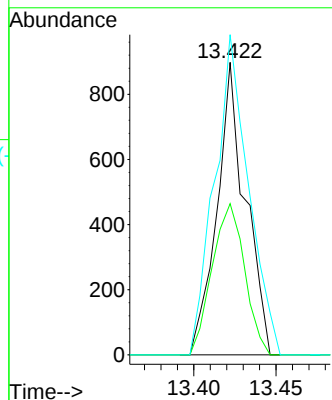
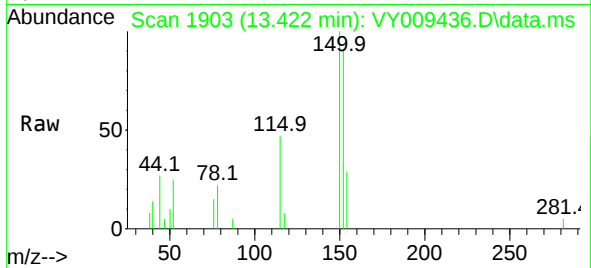




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1904
Delta R.T. 0.000 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

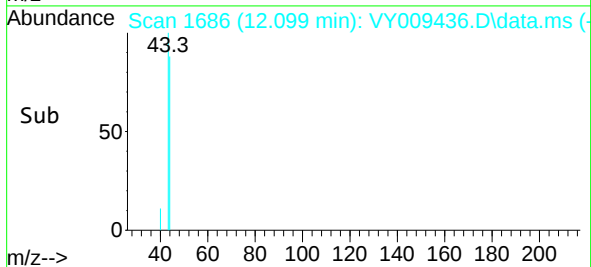
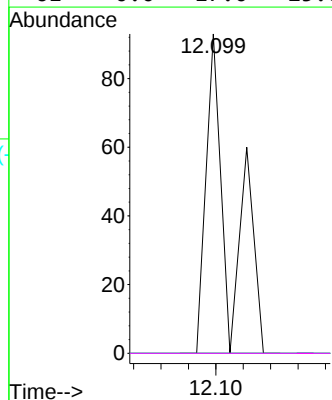
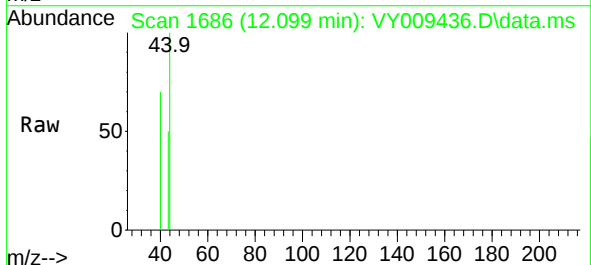
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

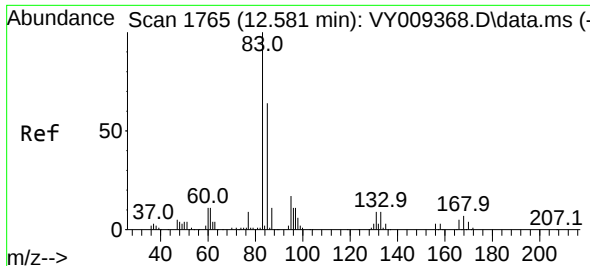
Tgt Ion:152 Resp: 1086
Ion Ratio Lower Upper
152 100
115 58.5 28.2 84.7
150 129.7 0.0 347.6



#74
N-ethyl acetate
Concen: 2.661 ug/l
RT: 12.099 min Scan# 1686
Delta R.T. -0.043 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Tgt Ion: 43 Resp: 56
Ion Ratio Lower Upper
43 100
70 0.0 28.7 43.1#
55 0.0 17.3 25.9#
61 0.0 17.0 25.6#

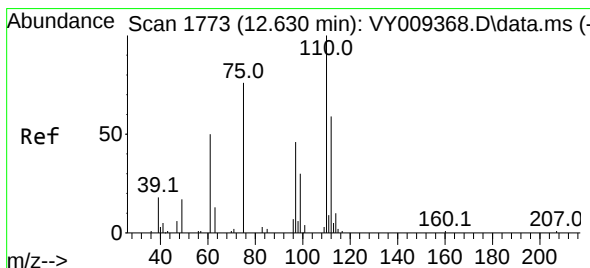
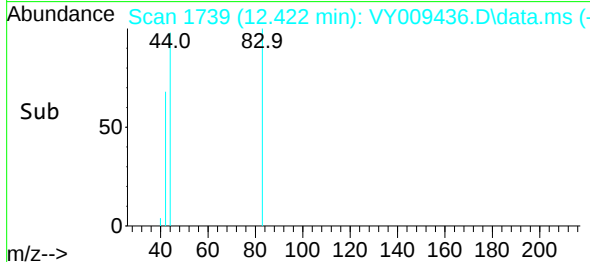
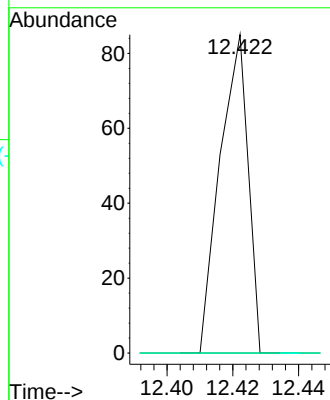
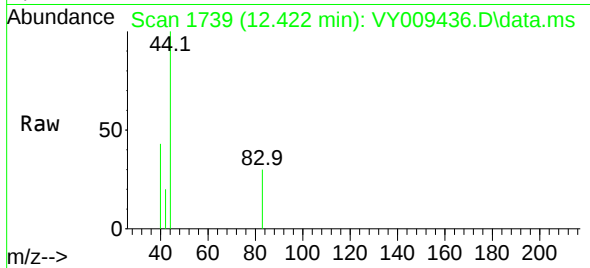




#75
1,1,2,2-Tetrachloroethane
Concen: 3.218 ug/l
RT: 12.422 min Scan# 11
Delta R.T. -0.159 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

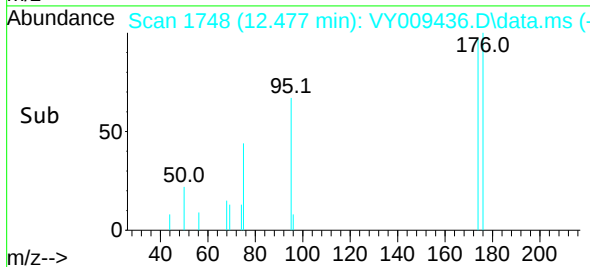
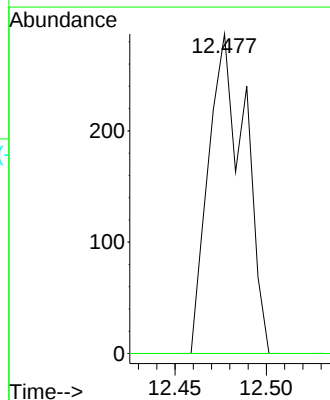
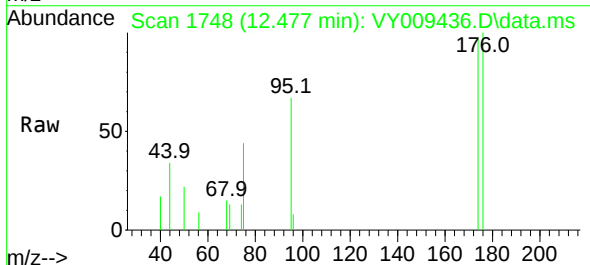
Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022

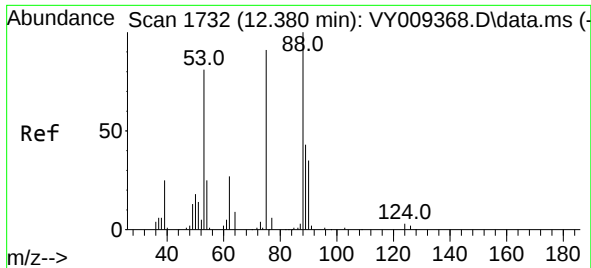
Tgt Ion: 83 Resp: 50
Ion Ratio Lower Upper
83 100
131 0.0 5.6 16.8#
85 0.0 32.3 96.8#



#76
1,2,3-Trichloropropane
Concen: 31.373 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

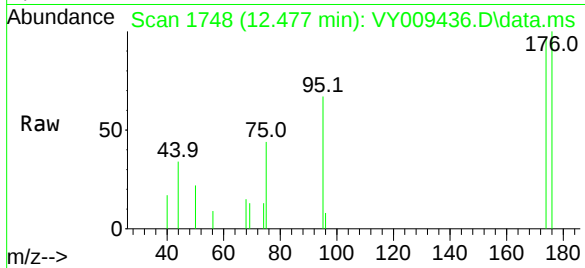
Tgt Ion: 75 Resp: 399
Ion Ratio Lower Upper
75 100
77 0.0 0.0 0.0





#81
trans-1,4-Dichloro-2-butene
Concen: 69.851 ug/l
RT: 12.477 min Scan# 11
Delta R.T. 0.103 min
Lab File: VY009436.D
Acq: 05 Jul 2022 14:44

Instrument :
MSVOA_Y
ClientSampleId :
TR-05-07012022



Tgt Ion: 75 Resp: 399
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.0 37.0 55.4#

