

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032122\
 Data File : VY007973.D
 Acq On : 21 Mar 2022 23:56
 Operator : SY/MD
 Sample : N1864-06
 Misc : 5.23g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 37 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MB-B2-030922-5-6

Quant Time: Mar 22 03:43:53 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y031722S.M
 Quant Title : SW846 8260
 QLast Update : Thu Mar 17 13:55:34 2022
 Response via : Initial Calibration

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

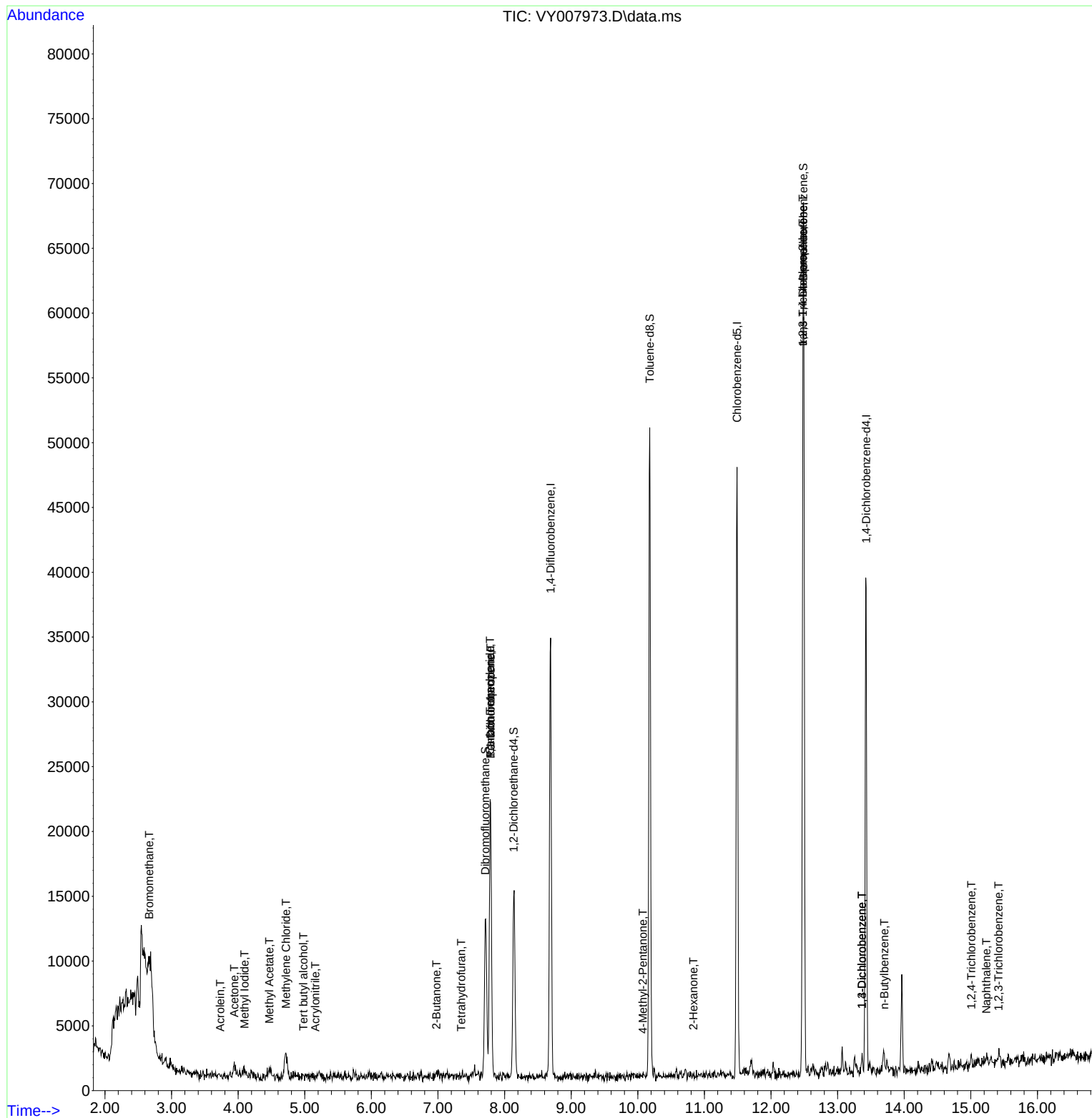
Internal Standards						
1) Pentafluorobenzene	7.789	168	15449	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.691	114	28538	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.489	117	24539	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.428	152	9000	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	11003	62.465	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 124.920%	
35) Dibromofluoromethane	7.709	113	9038	45.095	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 90.200%	
50) Toluene-d8	10.179	98	33753	56.550	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 113.100%	
62) 4-Bromofluorobenzene	12.483	95	10648	37.018	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 74.040%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.113	50	567	Below Cal	#	78
4) Vinyl Chloride	2.259	62	128	Below Cal	#	43
5) Bromomethane	2.662	94	1066	5.205	ug/l #	60
10) Methyl Iodide	4.094	142	1336	7.900	ug/l #	61
11) Tert butyl alcohol	4.978	59	31	1.511	ug/l #	77
13) Acrolein	3.728	56	167	13.512	ug/l #	65
15) Acrylonitrile	5.161	53	57	1.017	ug/l #	17
16) Acetone	3.942	43	1793	38.370	ug/l	94
18) Methyl Acetate	4.466	43	839	1.995	ug/l #	69
20) Methylene Chloride	4.716	84	1481	3.910	ug/l #	60
25) 2-Butanone	6.978	43	386	5.157	ug/l #	54
29) Tetrahydrofuran	7.350	42	168	3.503	ug/l #	38
31) Cyclohexane	7.777	56	167	Below Cal	#	83
36) 1,1-Dichloropropene	7.789	75	1435	4.827	ug/l #	44
38) Carbon Tetrachloride	7.783	117	1642	5.169	ug/l #	11
39) Methylcyclohexane	9.166	83	27	Below Cal	#	16
51) 4-Methyl-2-Pentanone	10.075	43	192	1.042	ug/l #	40
59) 2-Hexanone	10.837	43	281	2.133	ug/l #	44
76) 1,2,3-Trichloropropane	12.477	75	6831	53.251	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	6831	111.848	ug/l #	8
87) 1,3-Dichlorobenzene	13.367	146	369	1.044	ug/l	74
88) 1,4-Dichlorobenzene	13.367	146	369	1.041	ug/l	73
89) n-Butylbenzene	13.702	91	688	1.011	ug/l	87
93) 1,2,4-Trichlorobenzene	15.007	180	319	1.587	ug/l #	90
95) Naphthalene	15.232	128	1161	2.588	ug/l #	71
96) 1,2,3-Trichlorobenzene	15.415	180	323	1.822	ug/l #	85

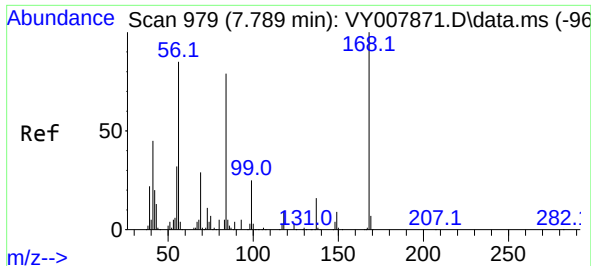
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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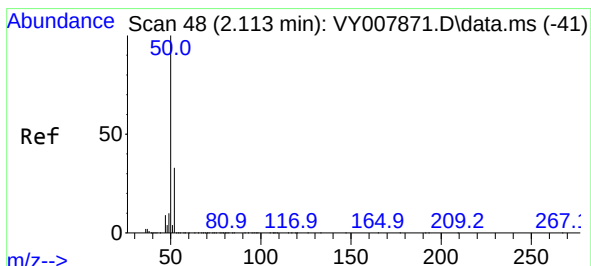
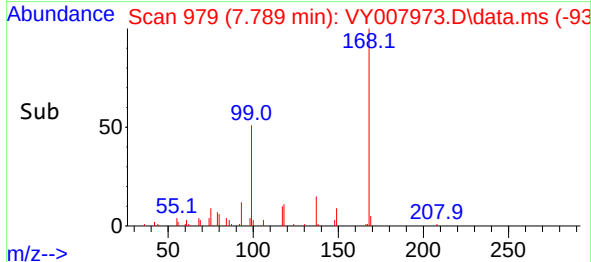
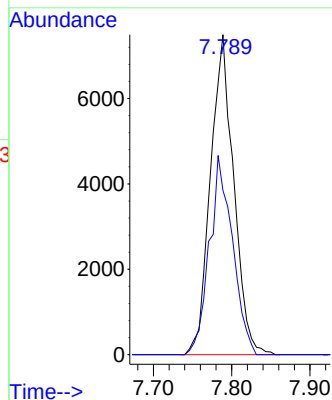
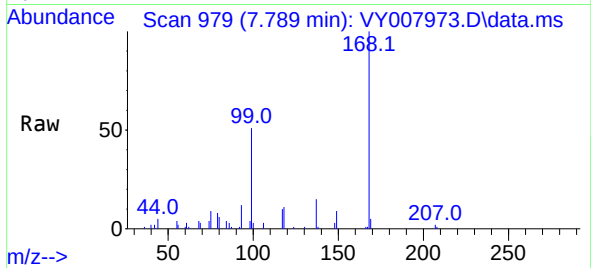




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.789 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

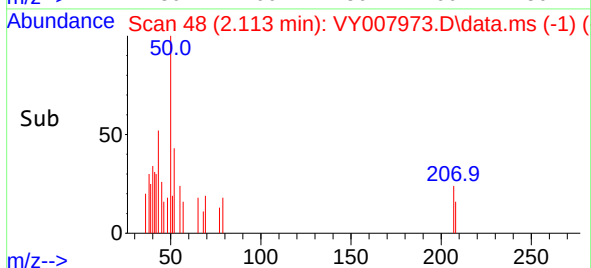
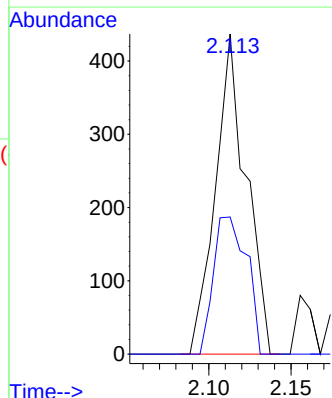
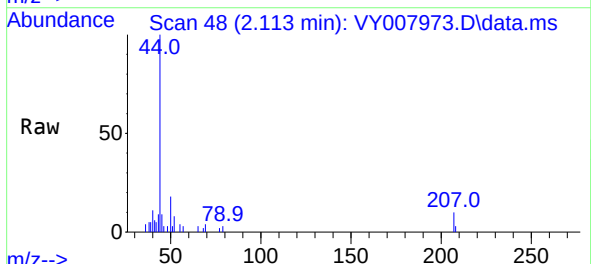
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

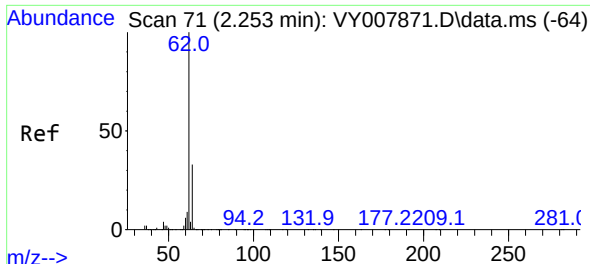
Tgt Ion:168 Resp: 15449
Ion Ratio Lower Upper
168 100
99 51.3 46.9 70.3



#3
Chloromethane
Concen: Below Cal
RT: 2.113 min Scan# 48
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 50 Resp: 567
Ion Ratio Lower Upper
50 100
52 42.8 24.6 37.0#

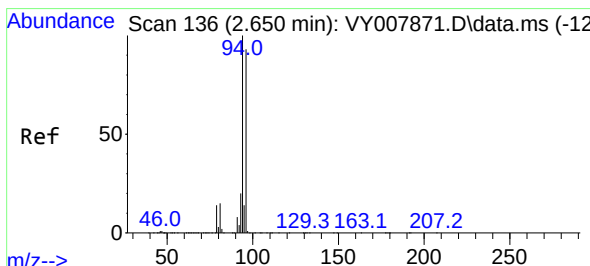
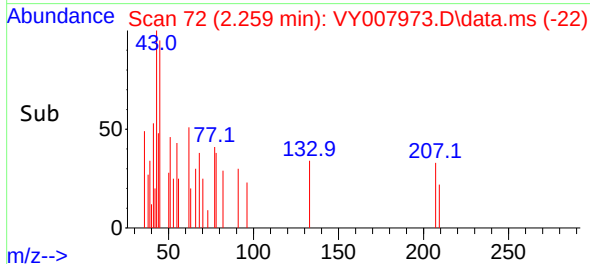
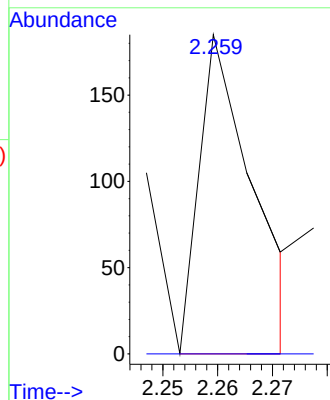
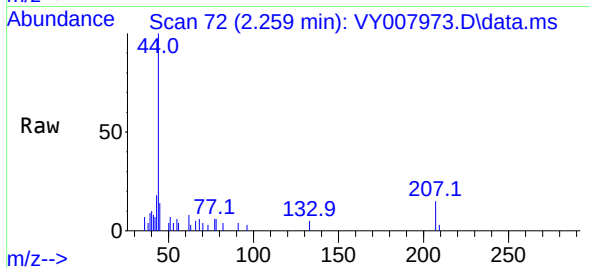




#4
 Vinyl Chloride
 Concen: Below Cal
 RT: 2.259 min Scan# 71
 Delta R.T. 0.006 min
 Lab File: VY007973.D
 Acq: 21 Mar 2022 23:56

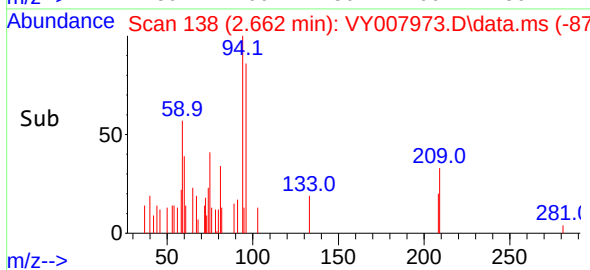
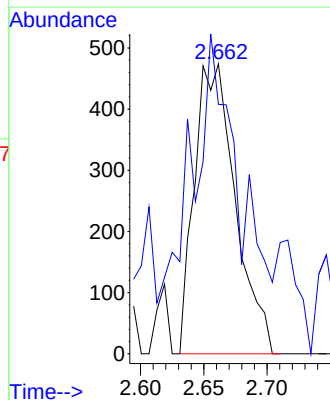
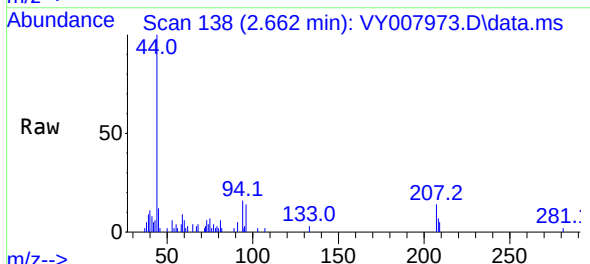
Instrument :
 MSVOA_Y
 ClientSampleId :
 MB-B2-030922-5-6

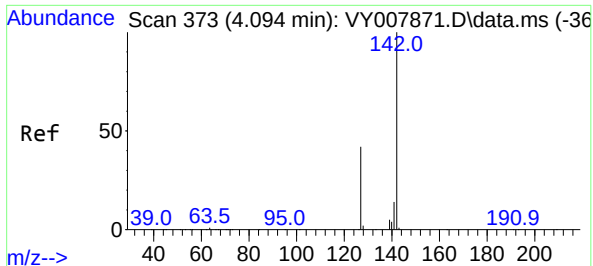
Tgt Ion: 62 Resp: 128
 Ion Ratio Lower Upper
 62 100
 64 0.0 25.0 37.6#



#5
 Bromomethane
 Concen: 5.205 ug/l
 RT: 2.662 min Scan# 138
 Delta R.T. 0.012 min
 Lab File: VY007973.D
 Acq: 21 Mar 2022 23:56

Tgt Ion: 94 Resp: 1066
 Ion Ratio Lower Upper
 94 100
 96 54.2 73.5 110.3#

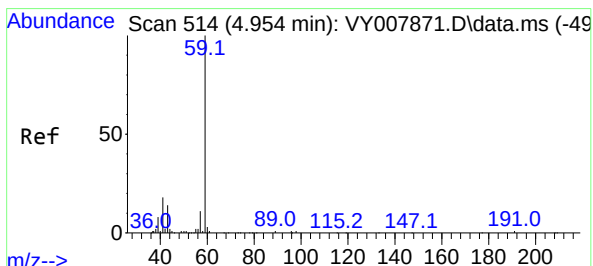
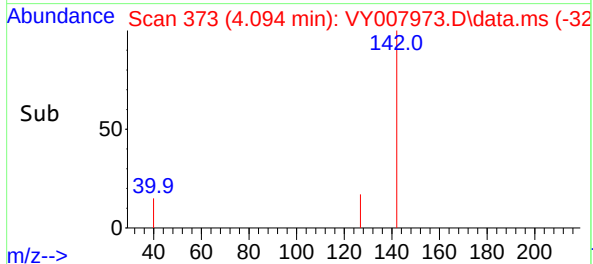
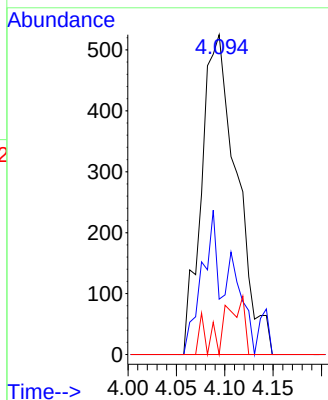
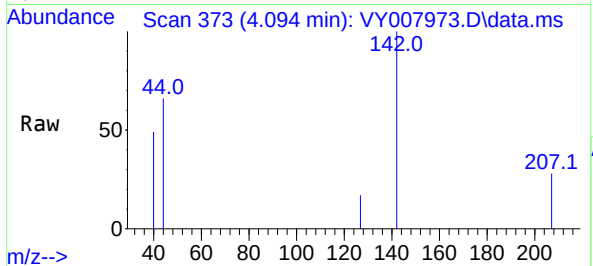




#10
Methyl Iodide
Concen: 7.900 ug/l
RT: 4.094 min Scan# 31
Delta R.T. 0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

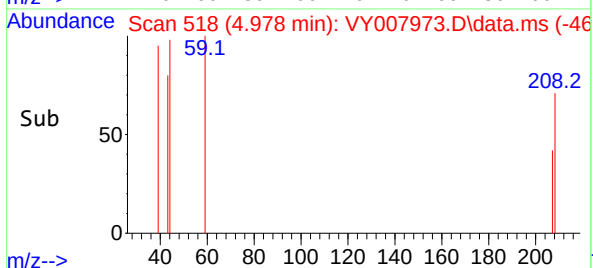
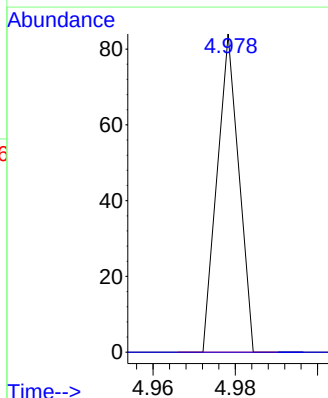
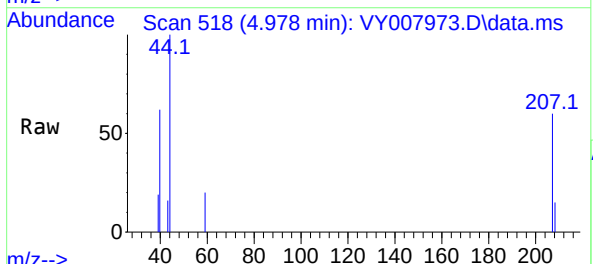
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

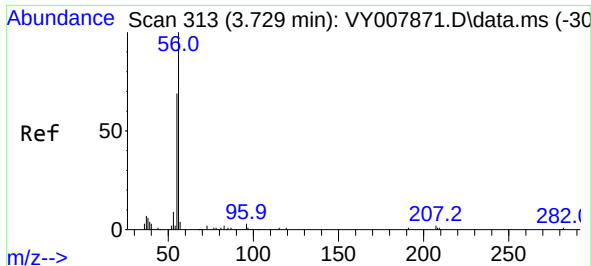
Tgt Ion:142 Resp: 1336
Ion Ratio Lower Upper
142 100
127 22.8 41.5 62.3#
141 1.9 11.9 17.9#



#11
Tert butyl alcohol
Concen: 1.511 ug/l
RT: 4.978 min Scan# 518
Delta R.T. 0.024 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 59 Resp: 31
Ion Ratio Lower Upper
59 100
57 0.0 6.4 9.6#

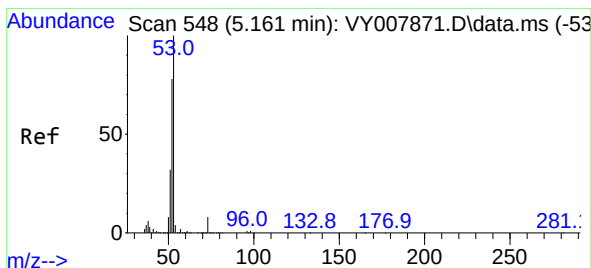
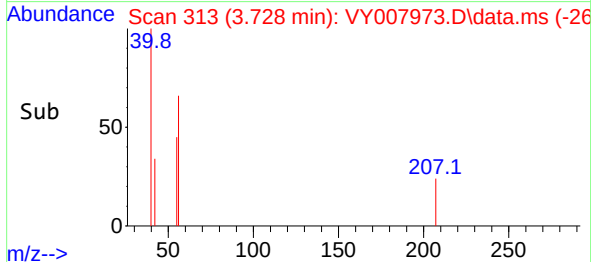
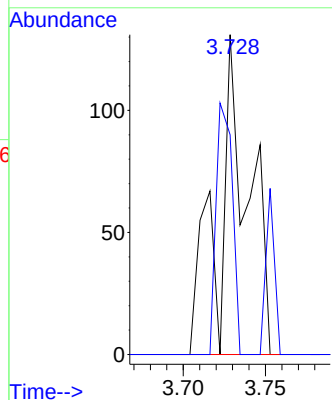
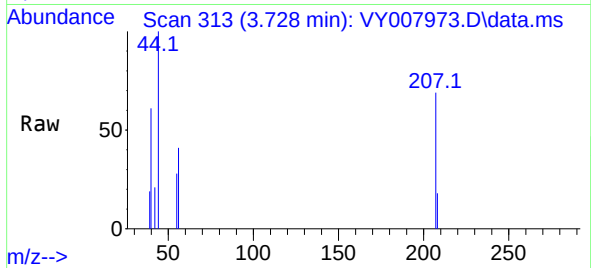




#13
Acrolein
Concen: 13.512 ug/l
RT: 3.728 min Scan# 313
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

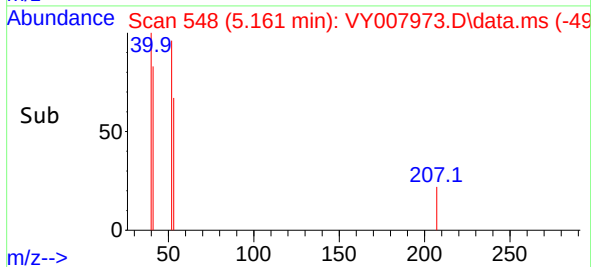
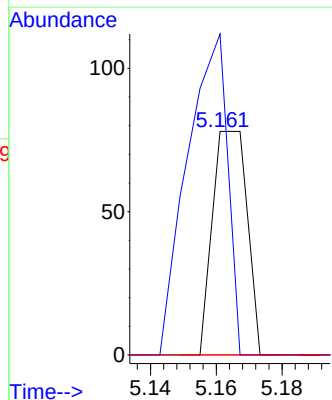
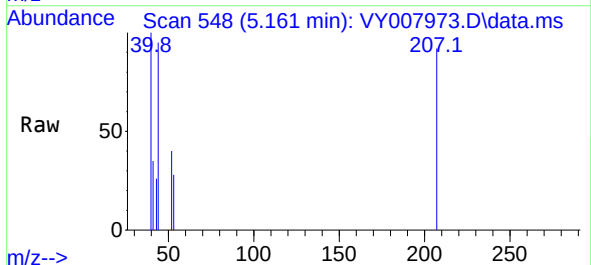
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

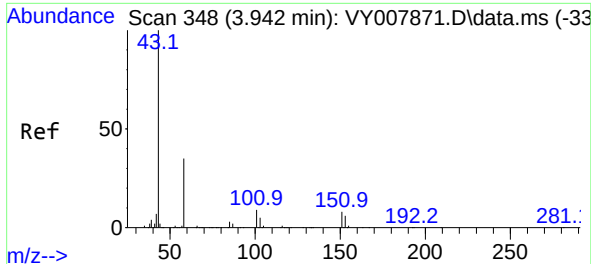
Tgt Ion: 56 Resp: 167
Ion Ratio Lower Upper
56 100
55 42.5 57.6 86.4#



#15
Acrylonitrile
Concen: 1.017 ug/l
RT: 5.161 min Scan# 548
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 53 Resp: 57
Ion Ratio Lower Upper
53 100
52 166.7 67.0 100.4#
51 0.0 29.8 44.6#





#16

Acetone

Concen: 38.370 ug/l

RT: 3.942 min Scan# 34

Delta R.T. -0.000 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

Instrument :

MSVOA_Y

ClientSampleId :

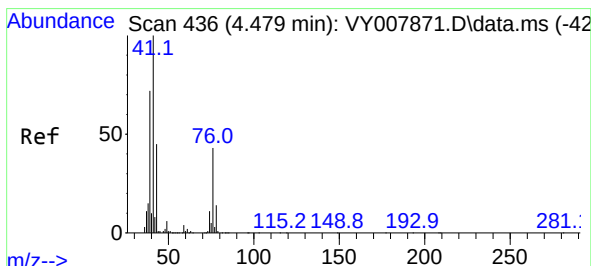
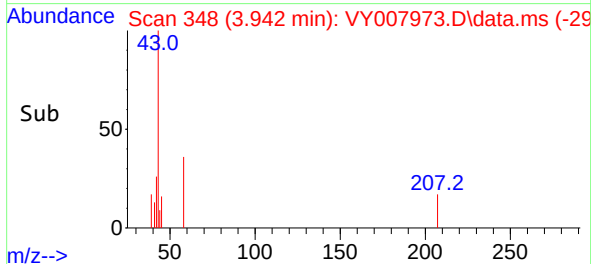
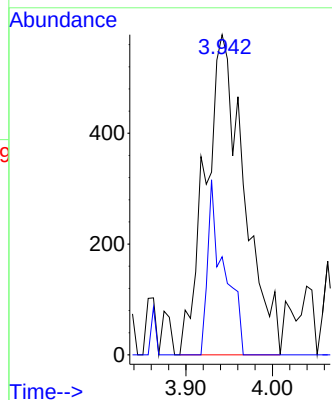
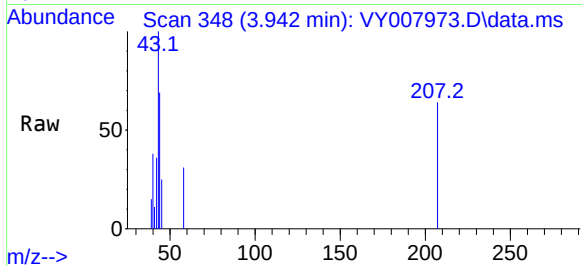
MB-B2-030922-5-6

Tgt Ion: 43 Resp: 1793

Ion Ratio Lower Upper

43 100

58 30.6 22.0 33.0



#18

Methyl Acetate

Concen: 1.995 ug/l

RT: 4.466 min Scan# 434

Delta R.T. -0.006 min

Lab File: VY007973.D

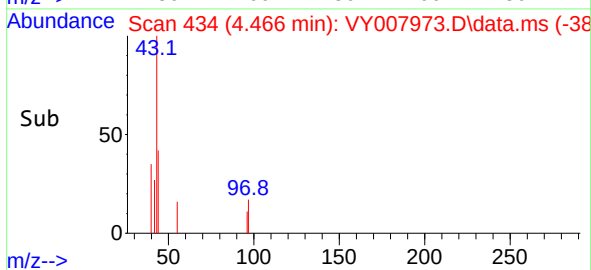
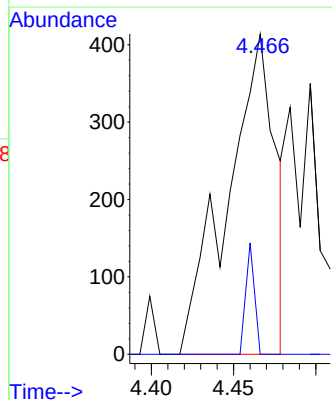
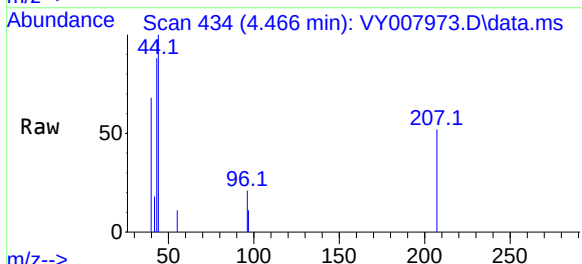
Acq: 21 Mar 2022 23:56

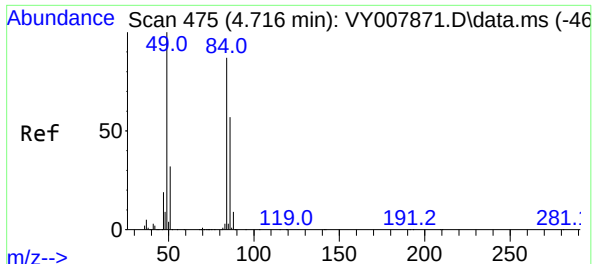
Tgt Ion: 43 Resp: 839

Ion Ratio Lower Upper

43 100

74 6.3 16.6 24.8#



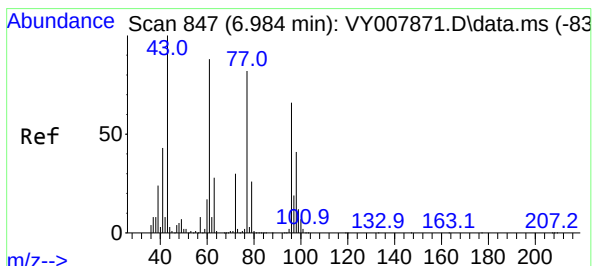
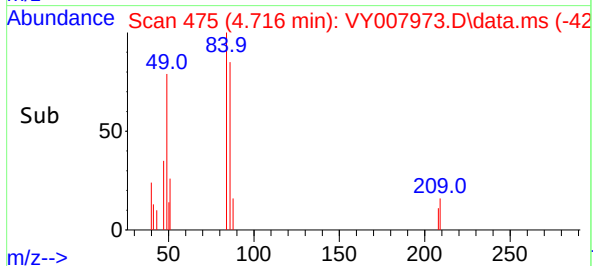
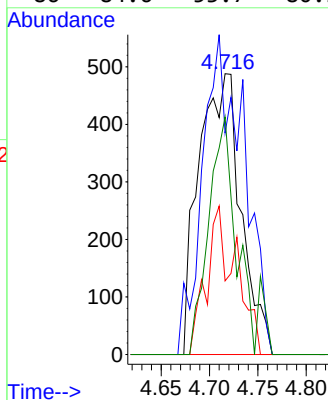
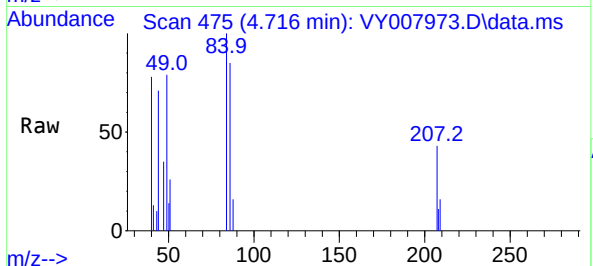


#20
Methylene Chloride
Concen: 3.910 ug/l
RT: 4.716 min Scan# 41
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

Tgt Ion: 84 Resp: 1481

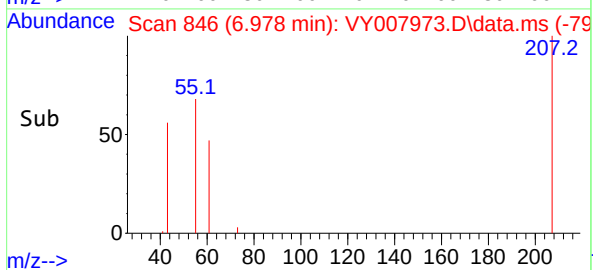
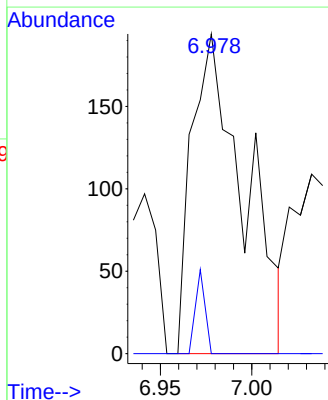
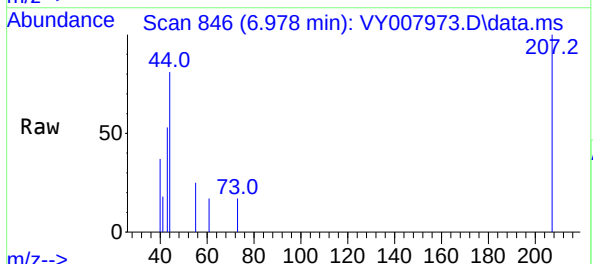
Ion	Ratio	Lower	Upper
84	100		
49	78.9	114.4	171.6#
51	26.2	35.3	52.9#
86	84.6	53.7	80.5#

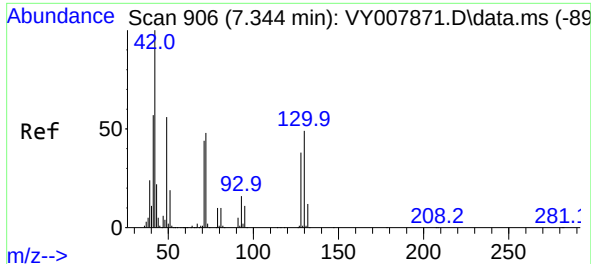


#25
2-Butanone
Concen: 5.157 ug/l
RT: 6.978 min Scan# 846
Delta R.T. -0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 43 Resp: 386

Ion	Ratio	Lower	Upper
43	100		
72	0.0	17.7	26.5#





#29

Tetrahydrofuran

Concen: 3.503 ug/l

RT: 7.350 min Scan# 906

Delta R.T. 0.006 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

Instrument :

MSVOA_Y

ClientSampleId :

MB-B2-030922-5-6

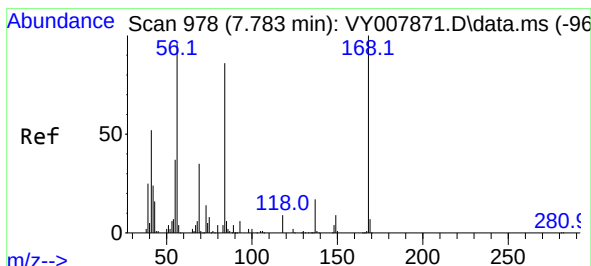
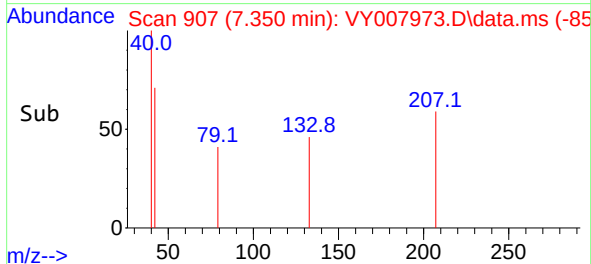
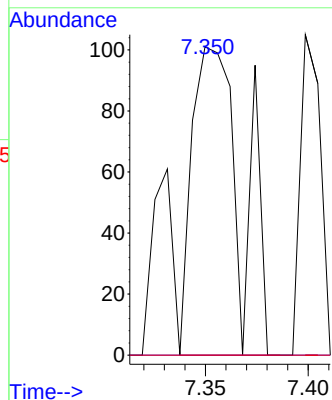
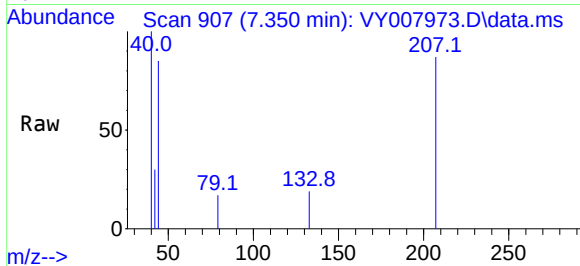
Tgt Ion: 42 Resp: 168

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#



#31

Cyclohexane

Concen: Below Cal

RT: 7.777 min Scan# 977

Delta R.T. -0.006 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

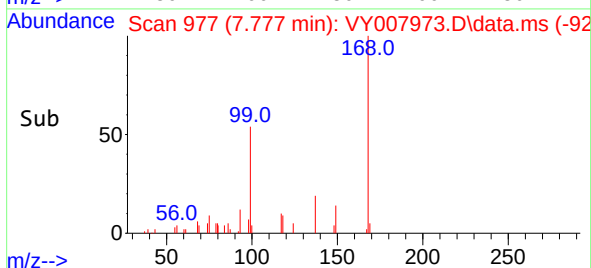
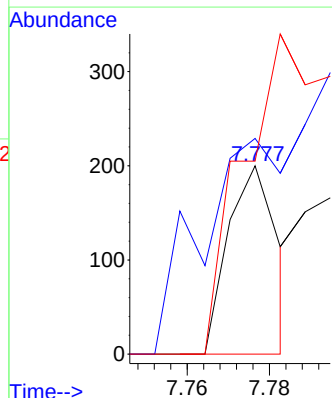
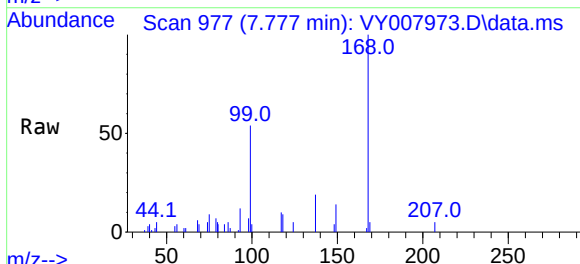
Tgt Ion: 56 Resp: 167

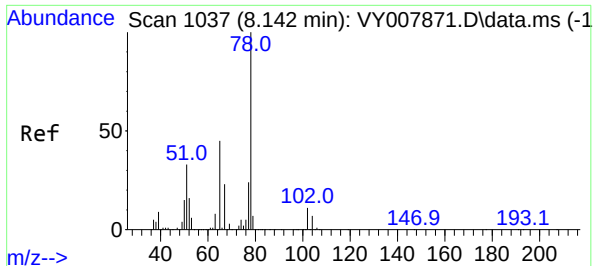
Ion Ratio Lower Upper

56 100

69 38.5 26.7 40.1

84 102.5 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 62.465 ug/l

RT: 8.136 min Scan# 11003

Delta R.T. -0.000 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

Instrument :

MSVOA_Y

ClientSampleId :

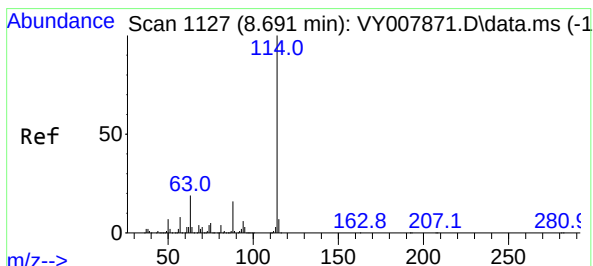
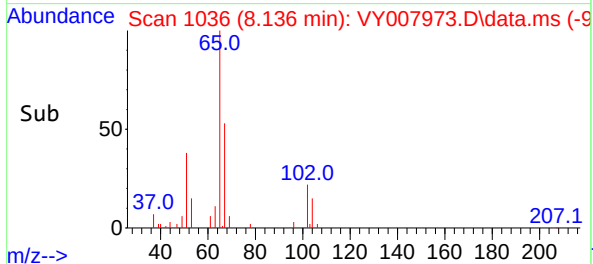
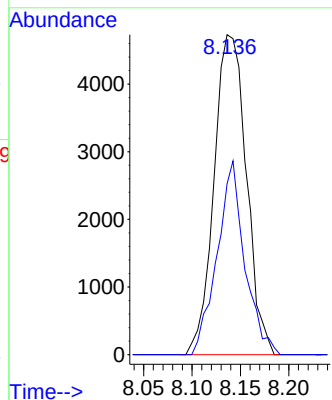
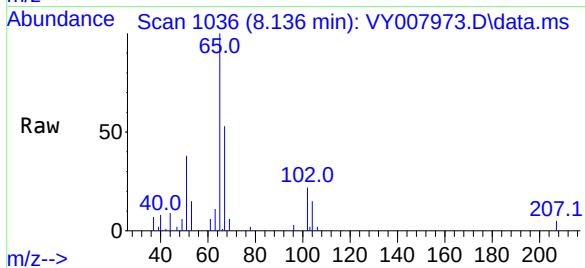
MB-B2-030922-5-6

Tgt Ion: 65 Resp: 11003

Ion Ratio Lower Upper

65 100

67 51.7 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.691 min Scan# 1127

Delta R.T. -0.000 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

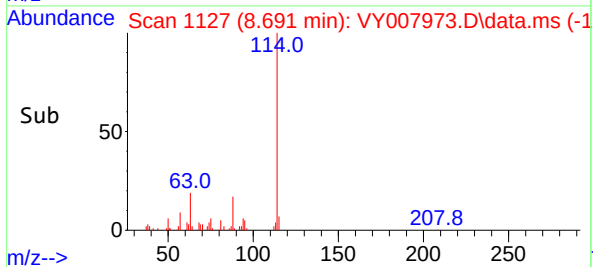
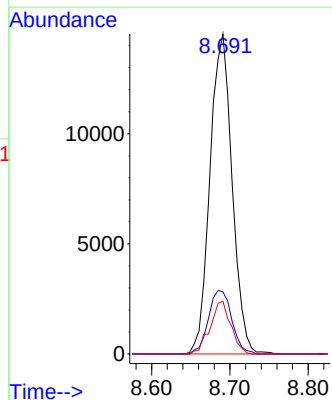
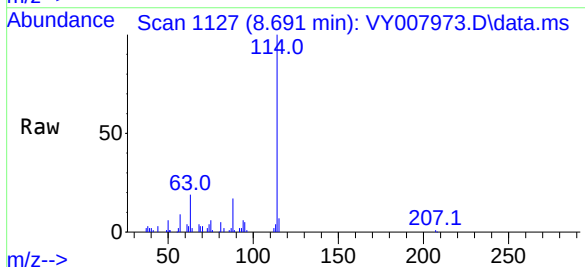
Tgt Ion:114 Resp: 28538

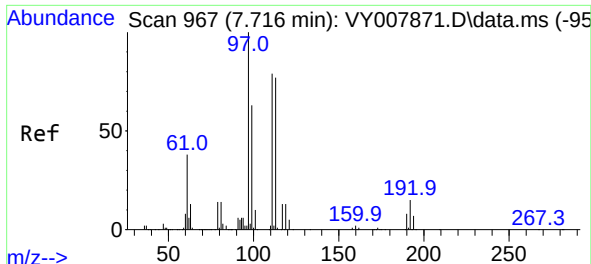
Ion Ratio Lower Upper

114 100

63 19.4 0.0 43.2

88 16.5 0.0 31.8

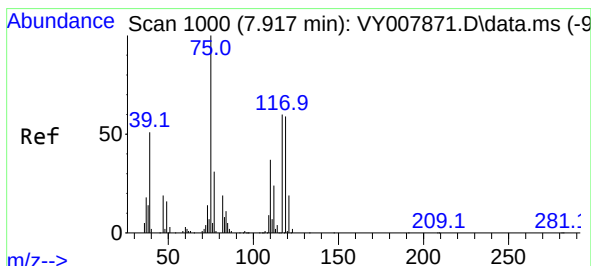
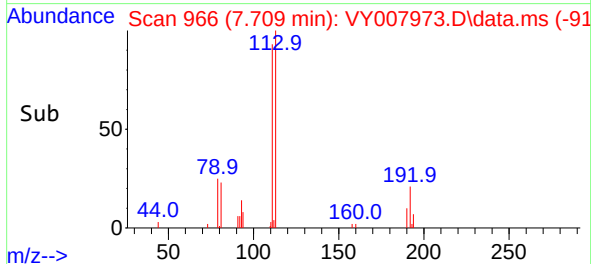
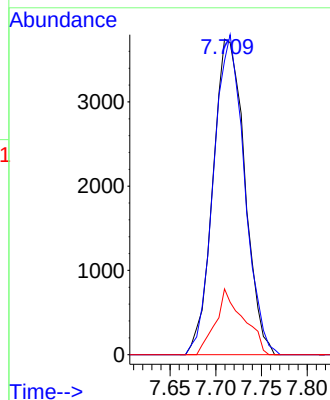
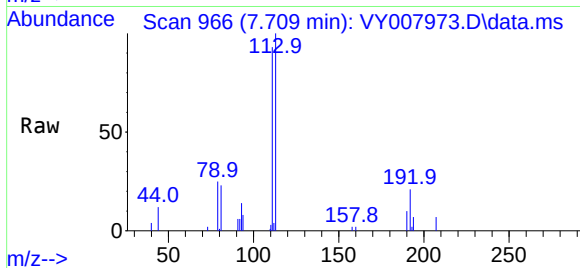




#35
Dibromofluoromethane
Concen: 45.095 ug/l
RT: 7.709 min Scan# 909
Delta R.T. -0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

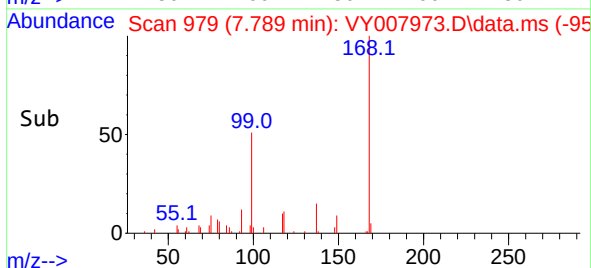
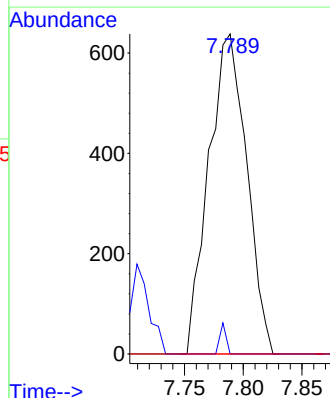
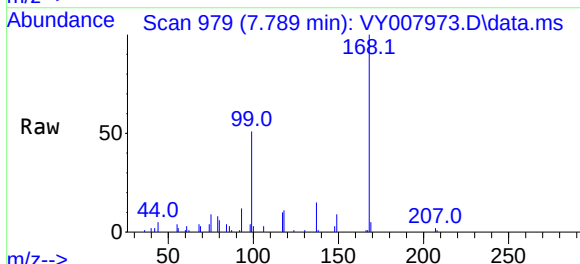
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

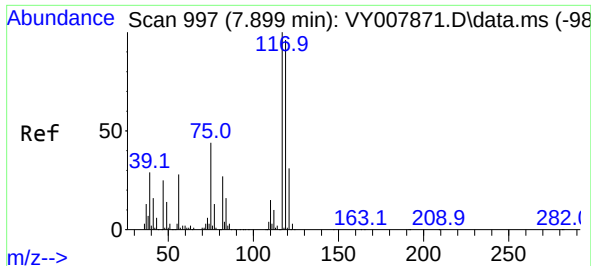
Tgt Ion:113 Resp: 9038
Ion Ratio Lower Upper
113 100
111 98.5 82.6 124.0
192 18.4 17.6 26.4



#36
1,1-Dichloropropene
Concen: 4.827 ug/l
RT: 7.789 min Scan# 979
Delta R.T. -0.128 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 75 Resp: 1435
Ion Ratio Lower Upper
75 100
110 1.6 17.1 51.2#
77 0.0 24.4 36.6#

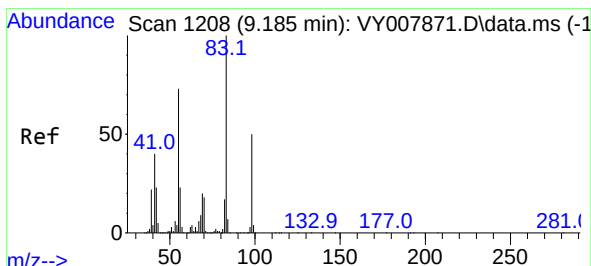
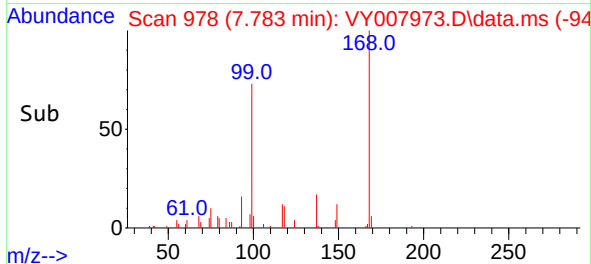
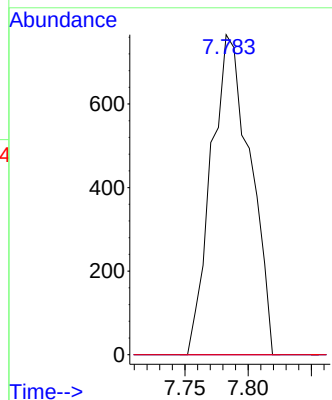
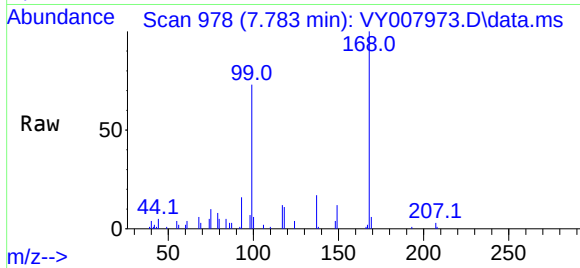




#38
Carbon Tetrachloride
Concen: 5.169 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

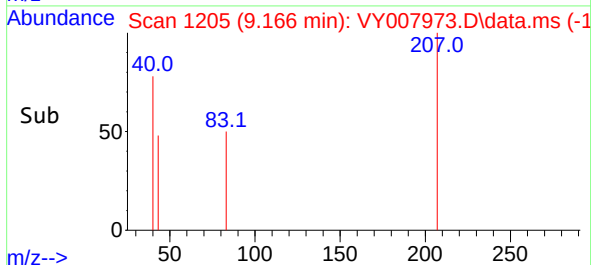
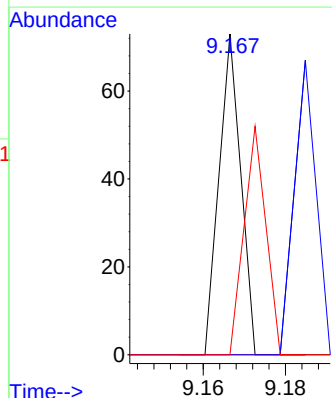
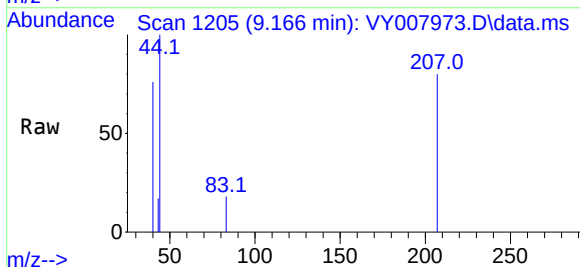
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

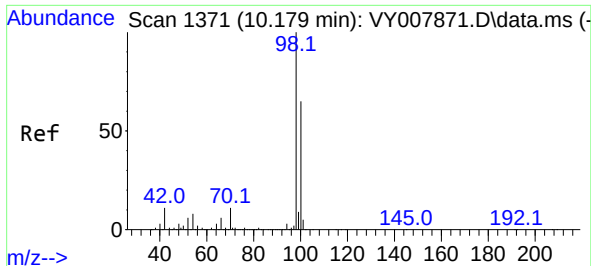
Tgt Ion:117 Resp: 1642
Ion Ratio Lower Upper
117 100
119 0.0 77.9 116.9#
121 0.0 24.8 37.2#



#39
Methylcyclohexane
Concen: Below Cal
RT: 9.166 min Scan# 1205
Delta R.T. -0.019 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 83 Resp: 27
Ion Ratio Lower Upper
83 100
55 0.0 66.5 99.7#
98 0.0 37.9 56.9#

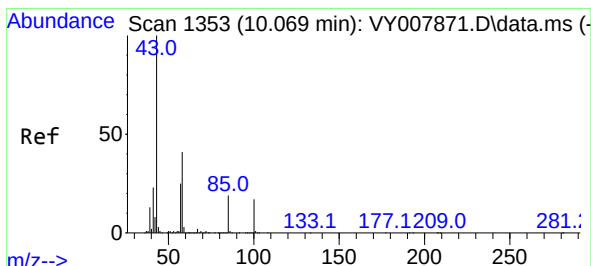
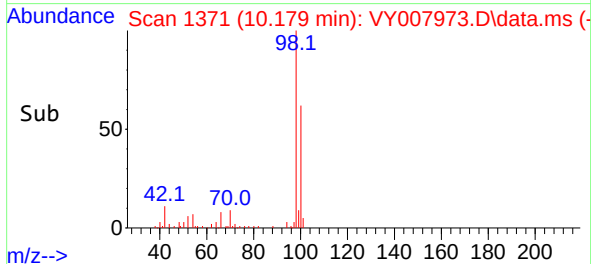
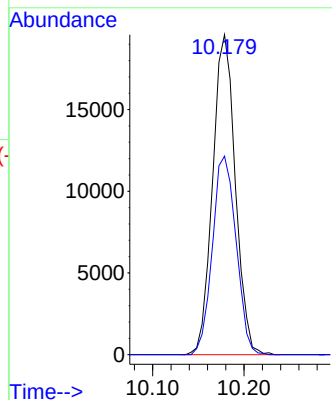
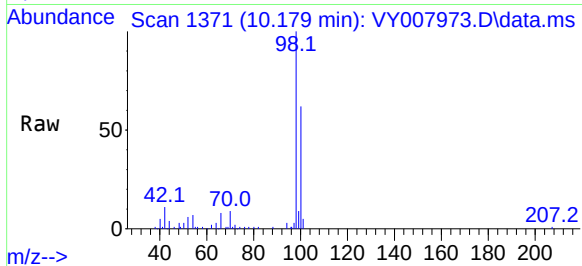




#50
Toluene-d8
Concen: 56.550 ug/l
RT: 10.179 min Scan# 1371
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

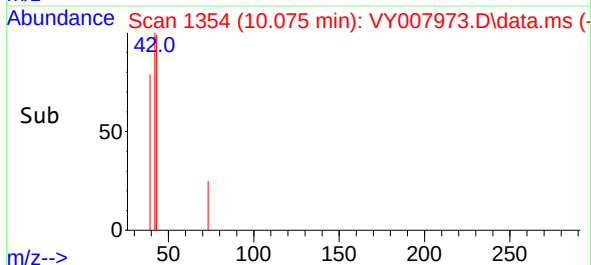
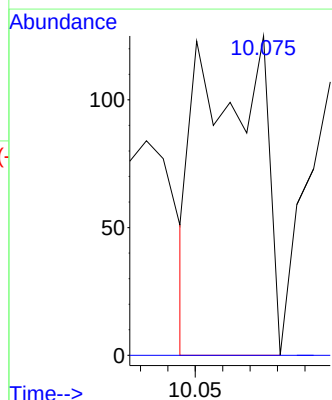
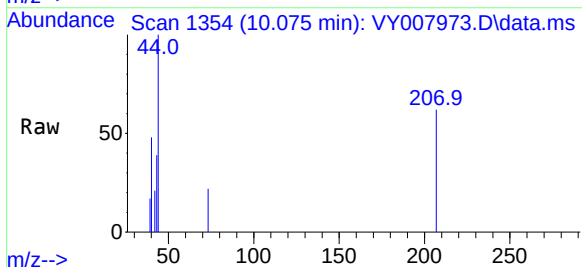
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

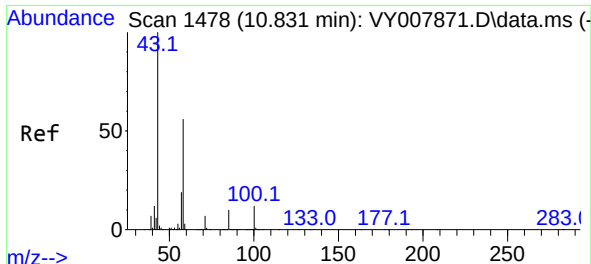
Tgt Ion: 98 Resp: 33753
Ion Ratio Lower Upper
98 100
100 64.8 50.2 75.2



#51
4-Methyl-2-Pentanone
Concen: 1.042 ug/l
RT: 10.075 min Scan# 1354
Delta R.T. 0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 43 Resp: 192
Ion Ratio Lower Upper
43 100
58 0.0 28.1 42.1#

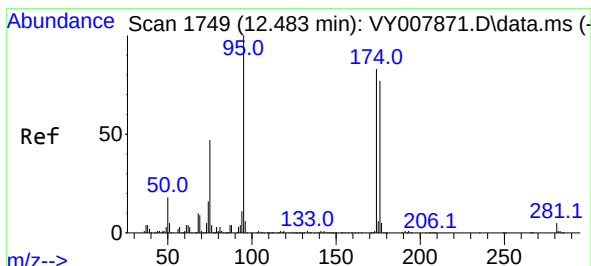
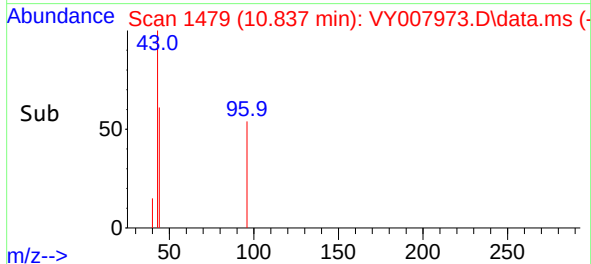
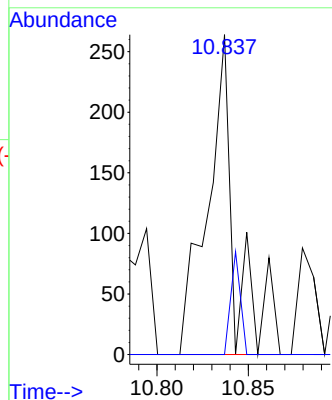
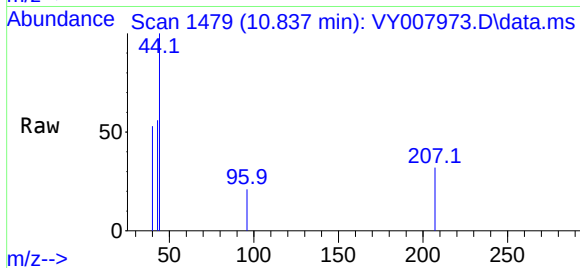




#59
2-Hexanone
Concen: 2.133 ug/l
RT: 10.837 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

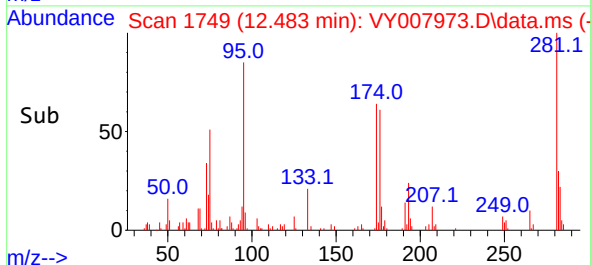
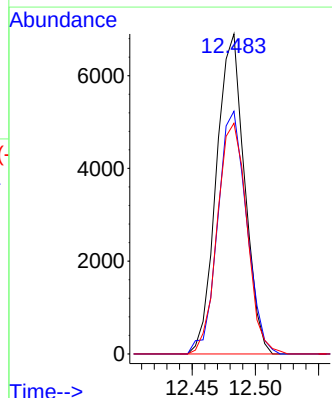
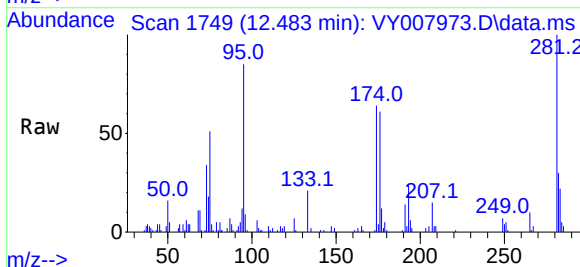
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

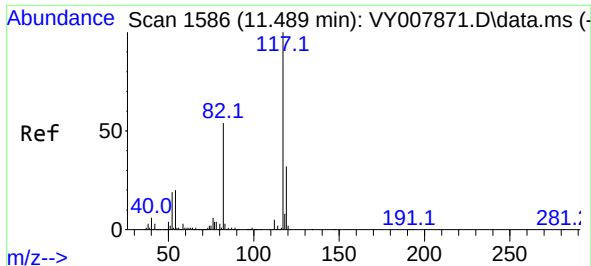
Tgt Ion: 43 Resp: 281
Ion Ratio Lower Upper
43 100
58 11.0 24.4 73.4#



#62
4-Bromofluorobenzene
Concen: 37.018 ug/l
RT: 12.483 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 95 Resp: 10648
Ion Ratio Lower Upper
95 100
174 78.0 0.0 177.0
176 75.8 0.0 175.8

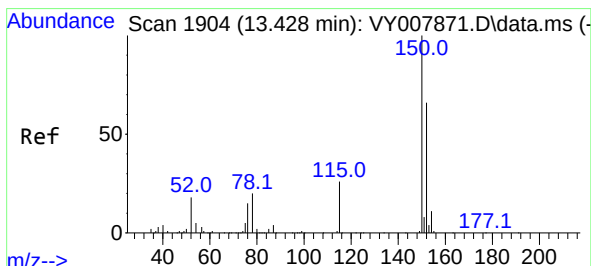
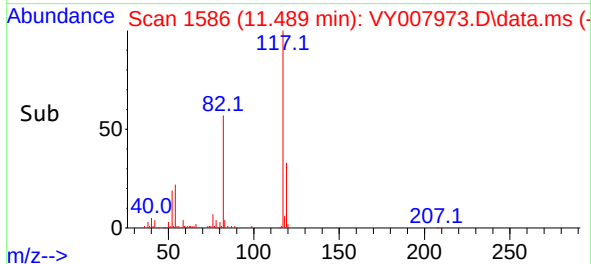
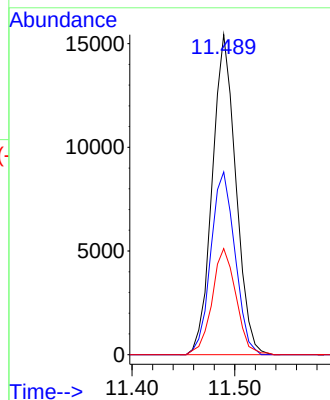
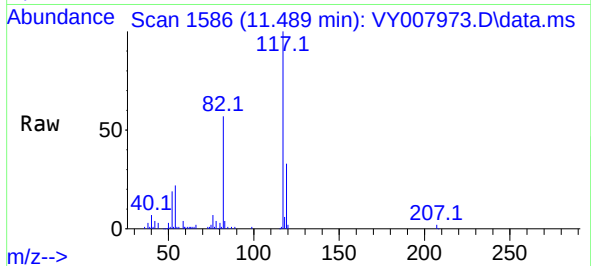




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.489 min Scan# 117
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

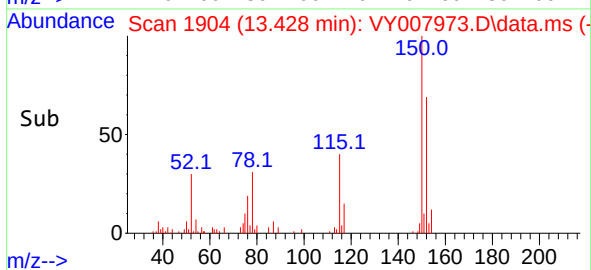
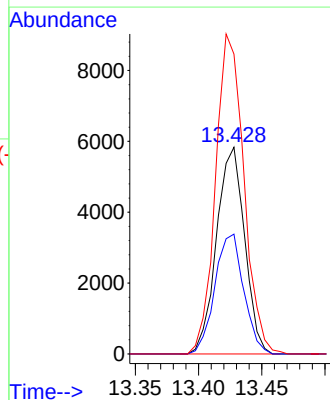
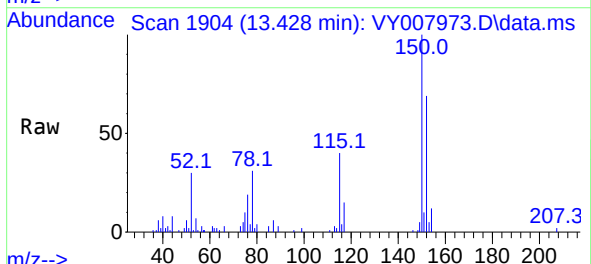
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

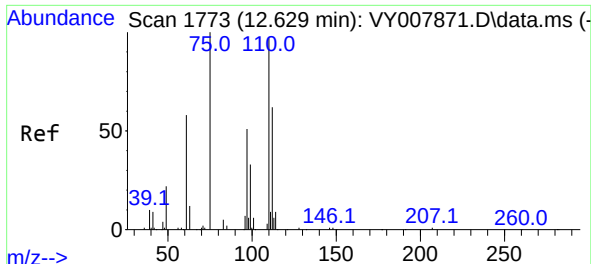
Tgt Ion:117	Resp:	24539
Ion Ratio	Lower	Upper
117	100	
82	57.1	43.0 64.4
119	33.2	25.4 38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.428 min Scan# 1904
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion:152	Resp:	9000
Ion Ratio	Lower	Upper
152	100	
115	59.5	28.2 84.7
150	156.3	0.0 347.6

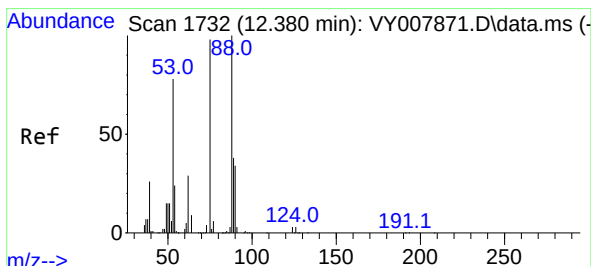
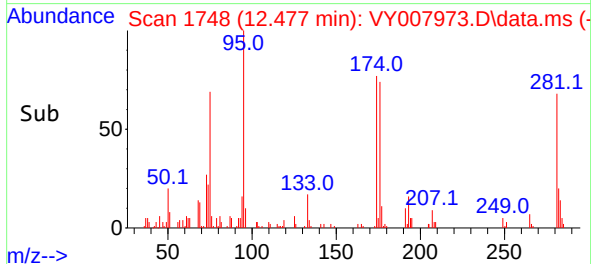
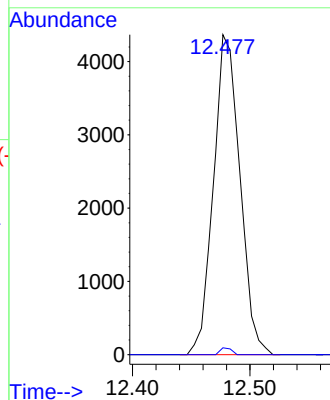
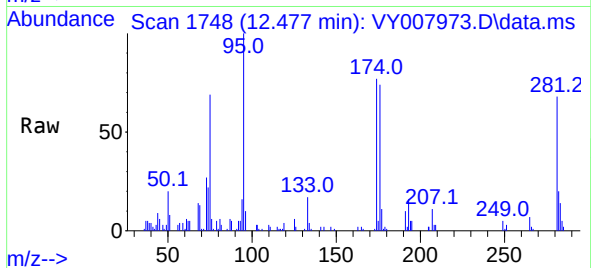




#76
1,2,3-Trichloropropane
Concen: 53.251 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.159 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

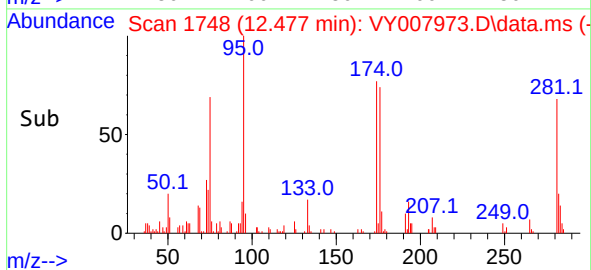
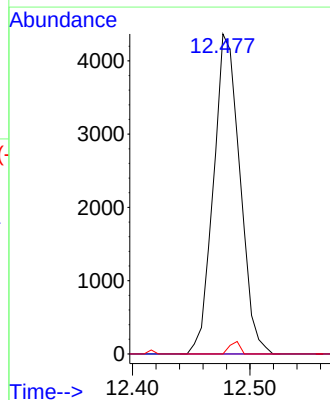
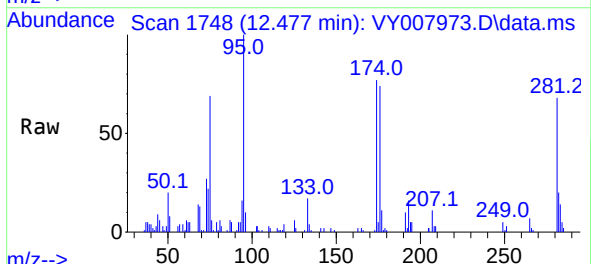
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

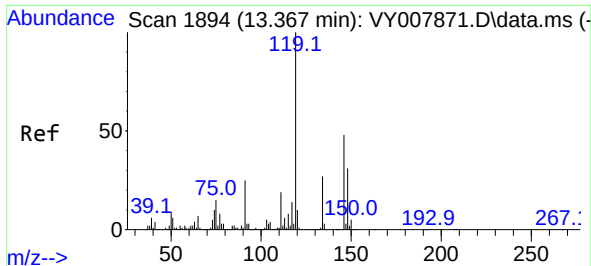
Tgt Ion: 75 Resp: 6831
Ion Ratio Lower Upper
75 100
77 0.9 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 111.848 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.097 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 75 Resp: 6831
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 1.6 37.0 55.4#





#87

1,3-Dichlorobenzene

Concen: 1.044 ug/l

RT: 13.367 min Scan# 1894

Delta R.T. -0.000 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

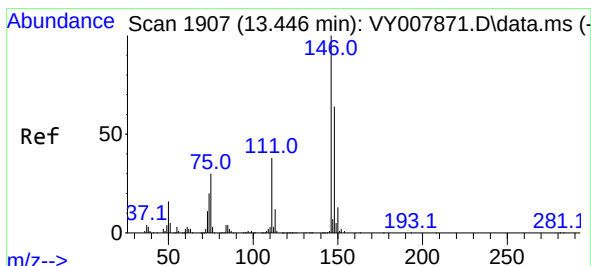
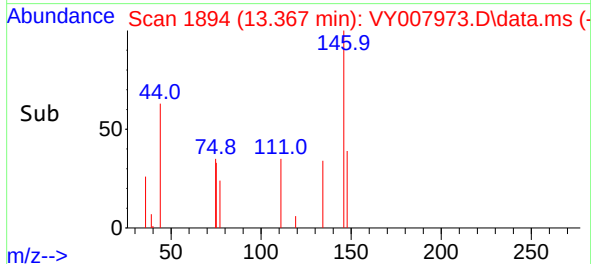
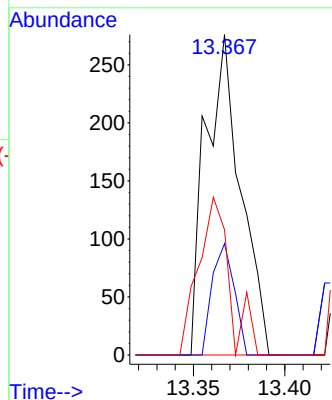
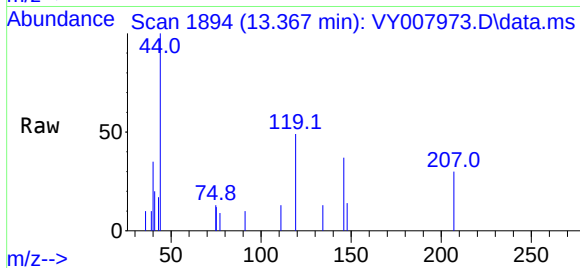
Instrument :

MSVOA_Y

ClientSampleId :

MB-B2-030922-5-6

Tgt Ion:	146	Resp:	369
Ion	Ratio	Lower	Upper
146	100		
111	21.7	19.5	58.5
148	43.6	31.6	95.0



#88

1,4-Dichlorobenzene

Concen: 1.041 ug/l

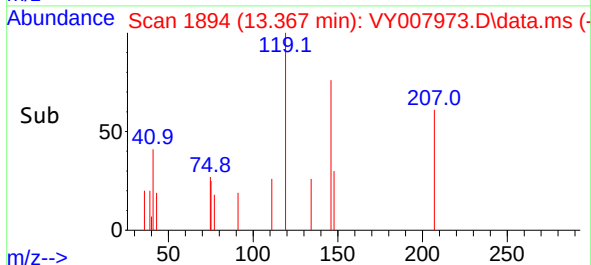
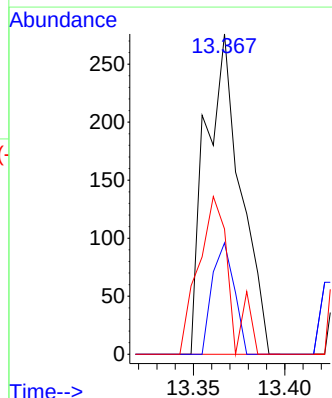
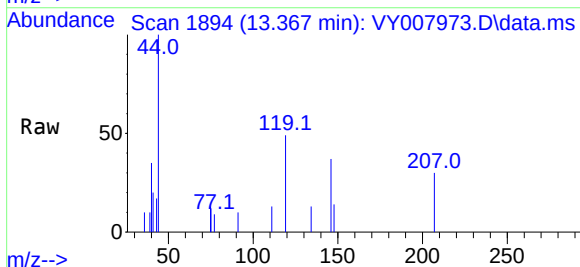
RT: 13.367 min Scan# 1894

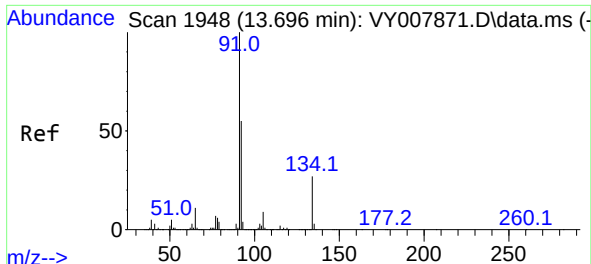
Delta R.T. -0.080 min

Lab File: VY007973.D

Acq: 21 Mar 2022 23:56

Tgt Ion:	146	Resp:	369
Ion	Ratio	Lower	Upper
146	100		
111	21.7	19.3	57.8
148	43.6	32.6	97.8

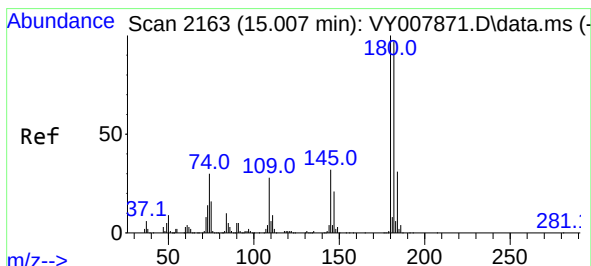
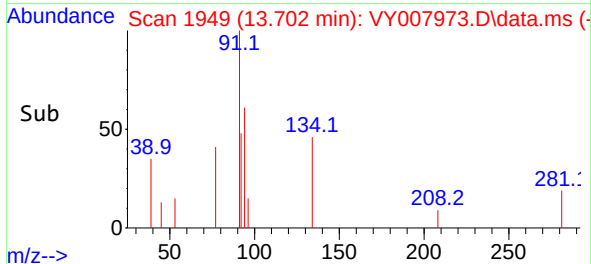
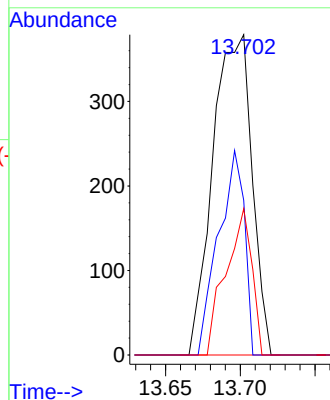
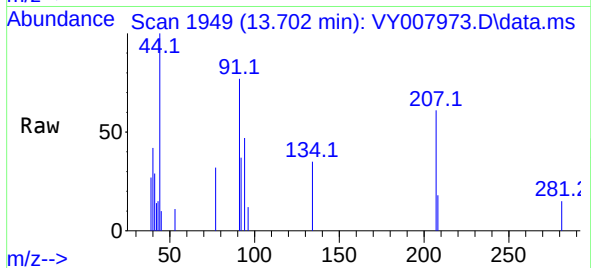




#89
n-Butylbenzene
Concen: 1.011 ug/l
RT: 13.702 min Scan# 1949
Delta R.T. 0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

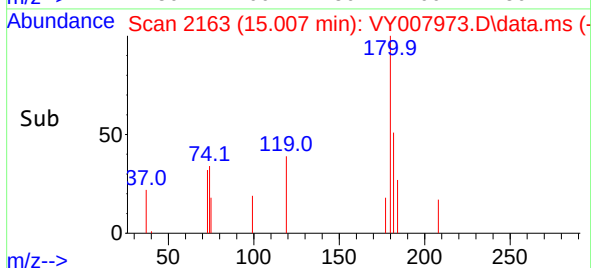
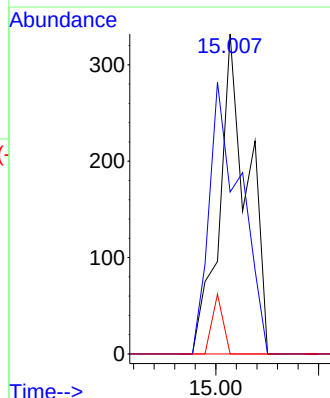
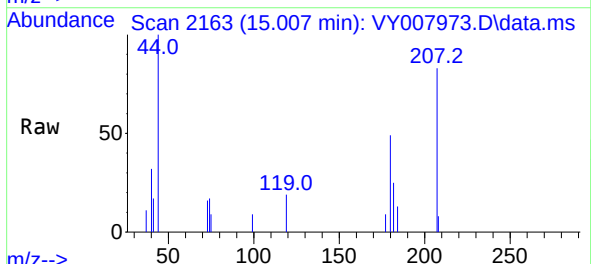
Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

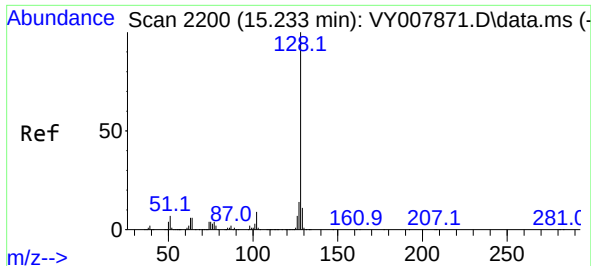
Tgt Ion: 91	Resp:	688
Ion	Ratio	Lower Upper
91	100	
92	42.4	26.3 78.9
134	30.5	13.0 38.9



#93
1,2,4-Trichlorobenzene
Concen: 1.587 ug/l
RT: 15.007 min Scan# 2163
Delta R.T. -0.000 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion: 180	Resp:	319
Ion	Ratio	Lower Upper
180	100	
182	93.7	47.3 141.9
145	7.2	14.6 43.8

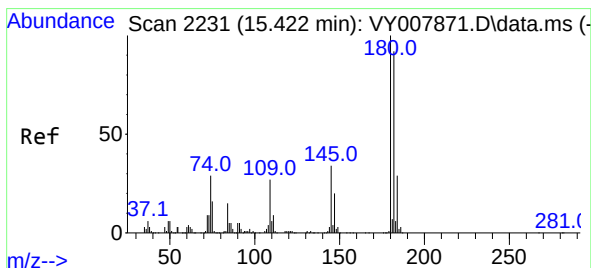
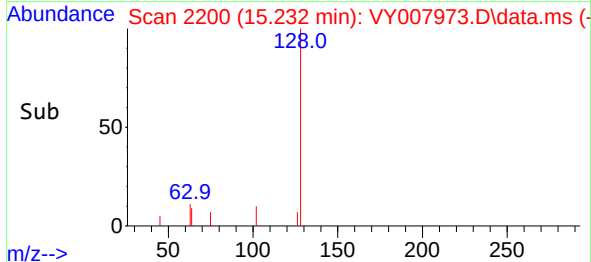
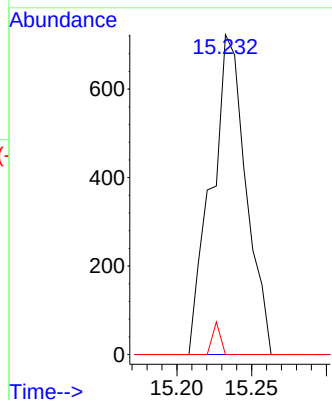
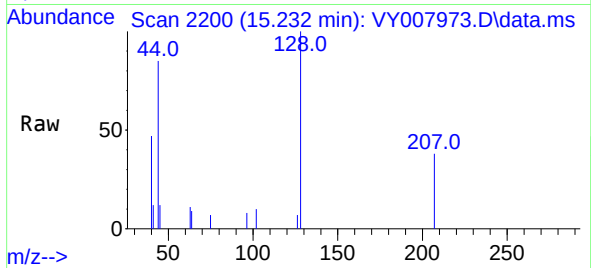




#95
Naphthalene
Concen: 2.588 ug/l
RT: 15.232 min Scan# 2116
Delta R.T. -0.006 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Instrument :
MSVOA_Y
ClientSampleId :
MB-B2-030922-5-6

Tgt Ion:	128	Resp:	1161
Ion	Ratio	Lower	Upper
128	100		
127	0.0	11.0	16.4#
129	2.3	8.4	12.6#



#96
1,2,3-Trichlorobenzene
Concen: 1.822 ug/l
RT: 15.415 min Scan# 2230
Delta R.T. -0.013 min
Lab File: VY007973.D
Acq: 21 Mar 2022 23:56

Tgt Ion:	180	Resp:	323
Ion	Ratio	Lower	Upper
180	100		
182	87.0	47.3	141.9
145	50.2	15.3	45.9#

