

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY032122\
 Data File : VY007964.D
 Acq On : 21 Mar 2022 18:56
 Operator : SY/MD
 Sample : N1974-10
 Misc : 5.04g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 G-6-7-14-15

Quant Time: Mar 22 03:41:28 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)

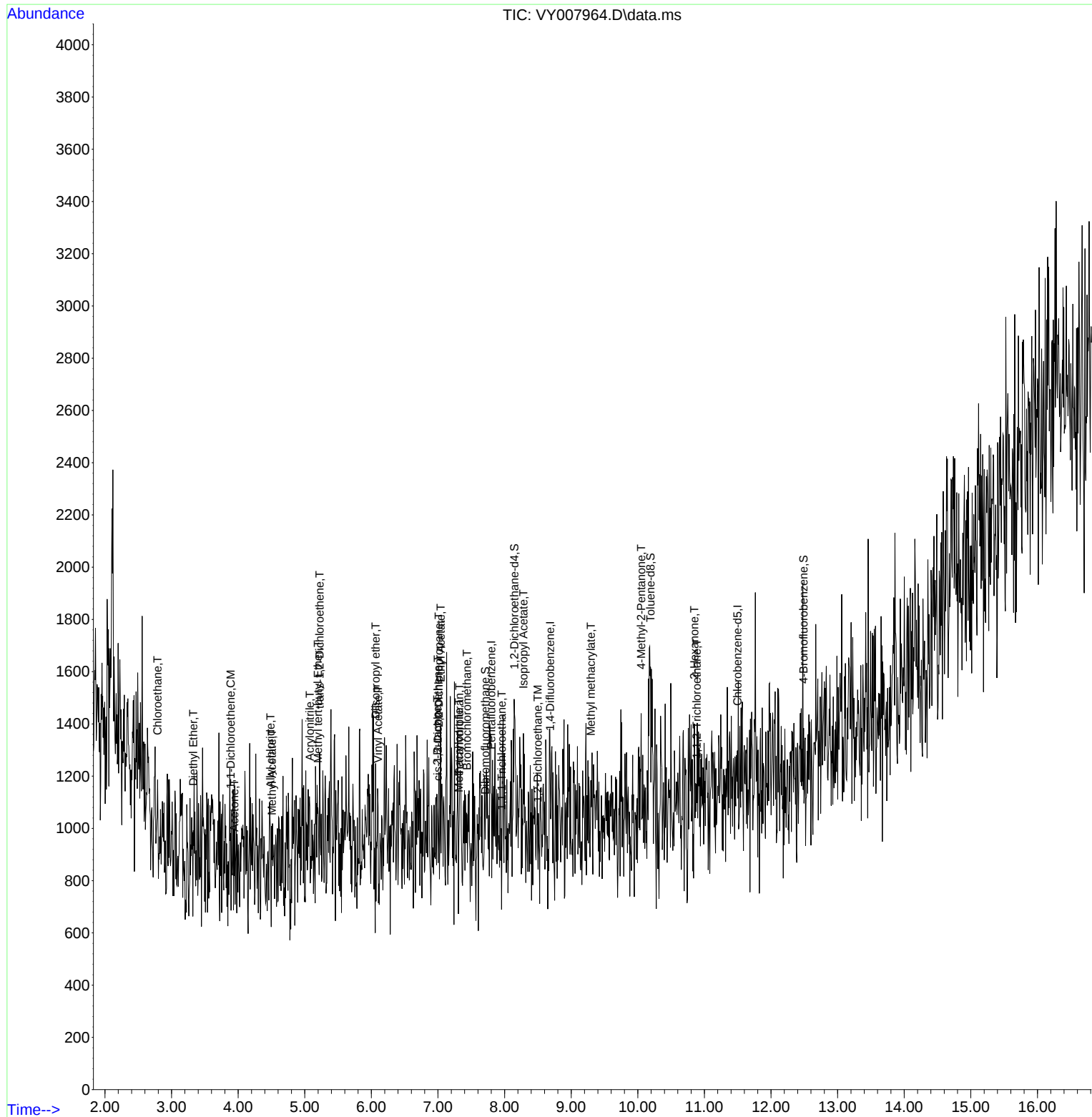
Internal Standards						
1) Pentafluorobenzene	7.801	168	251	50.000	ug/l	# 0.01
34) 1,4-Difluorobenzene	8.685	114	510	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.496	117	184	50.000	ug/l	# 0.00
72) 1,4-Dichlorobenzene-d4	0.000	152	0	0.000	ug/l	-13.43
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.149	65	274	95.742	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	191.480%#
35) Dibromofluoromethane	7.710	113	165	46.068	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	92.140%
50) Toluene-d8	10.191	98	461	41.701	ug/l	0.01
Spiked Amount	50.000	Range	49 - 140	Recovery	=	83.400%
62) 4-Bromofluorobenzene	12.489	95	31	6.031	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	12.060%#
Target Compounds						
					Qvalue	
6) Chloroethane	2.790	64	256	124.717	ug/l	# 43
8) Diethyl Ether	3.326	74	20	11.710	ug/l	# 1
12) 1,1-Dichloroethene	3.887	96	179	65.676	ug/l	# 1
14) Allyl chloride	4.485	41	20	4.363	ug/l	# 1
15) Acrylonitrile	5.076	53	21	23.071	ug/l	# 17
16) Acetone	3.942	43	79	104.055	ug/l	# 47
18) Methyl Acetate	4.509	43	150	87.326	ug/l	# 56
19) Methyl tert-butyl Ether	5.198	73	51	5.965	ug/l	# 52
21) trans-1,2-Dichloroethene	5.222	96	160	52.437	ug/l	# 1
22) Diisopropyl ether	6.064	45	23	2.332	ug/l	# 33
23) Vinyl Acetate	6.100	43	55	8.904	ug/l	# 75
25) 2-Butanone	6.990	43	49	40.293	ug/l	# 54
26) 2,2-Dichloropropane	7.015	77	32	6.215	ug/l	# 55
27) cis-1,2-Dichloroethene	6.996	96	143	39.045	ug/l	# 1
28) Bromochloromethane	7.435	49	24	10.938	ug/l	# 16
29) Tetrahydrofuran	7.320	42	125	160.422	ug/l	# 38
32) 1,1,1-Trichloroethane	7.960	97	19	3.674	ug/l	# 23
37) Ethyl Acetate	7.039	43	24	7.404	ug/l	# 72
41) Methacrylonitrile	7.313	41	22	11.005	ug/l	# 1
42) 1,2-Dichloroethane	8.496	62	20	4.450	ug/l	# 79
43) Isopropyl Acetate	8.283	43	59	9.441	ug/l	# 56
48) Methyl methacrylate	9.295	41	44	15.828	ug/l	# 51
51) 4-Methyl-2-Pentanone	10.051	43	127	38.573	ug/l	# 40
55) 1,1,2-Trichloroethane	10.886	97	31	9.074	ug/l	# 15
59) 2-Hexanone	10.849	43	96	40.774	ug/l	# 28

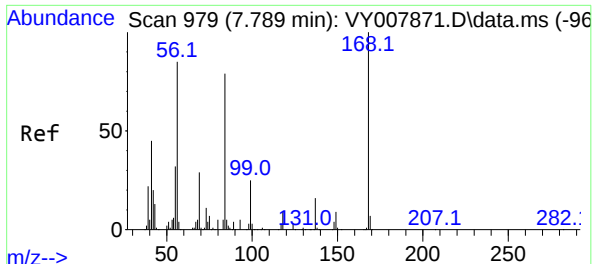
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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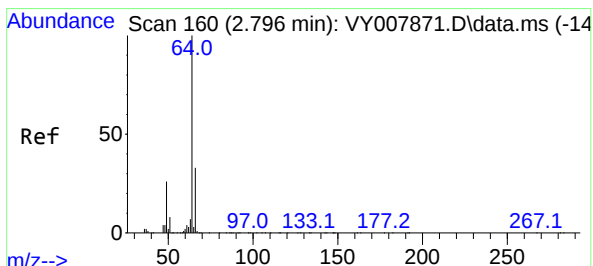
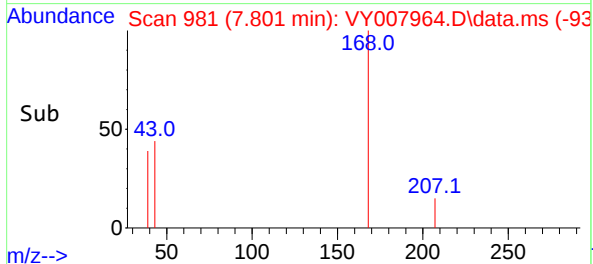
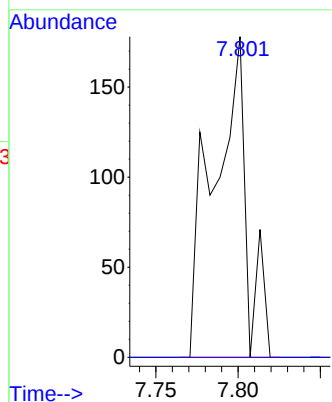
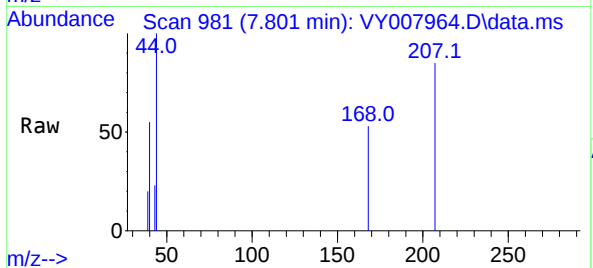




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.801 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

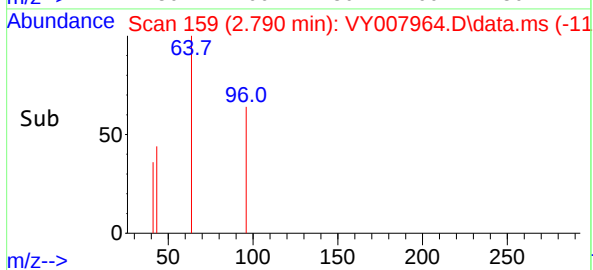
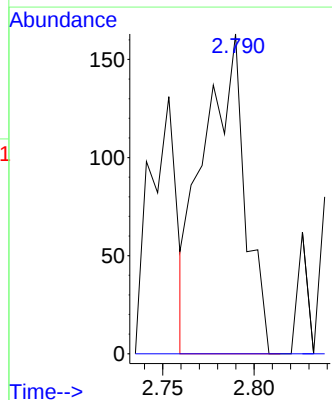
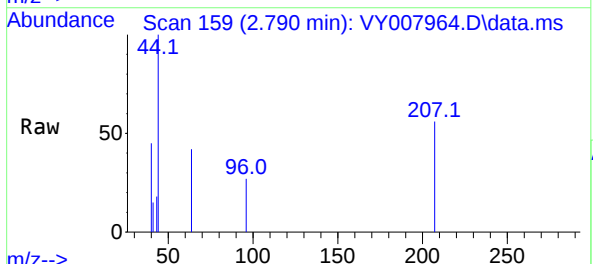
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

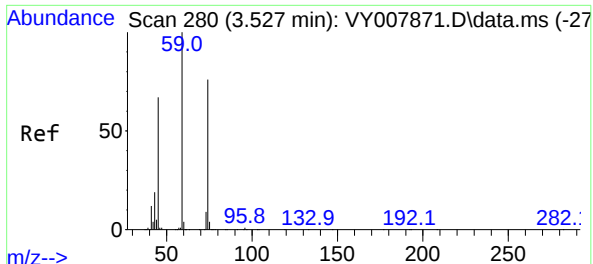
Tgt Ion:168 Resp: 251
Ion Ratio Lower Upper
168 100
99 0.0 46.9 70.3#



#6
Chloroethane
Concen: 124.717 ug/l
RT: 2.790 min Scan# 159
Delta R.T. -0.006 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 64 Resp: 256
Ion Ratio Lower Upper
64 100
66 0.0 25.4 38.0#

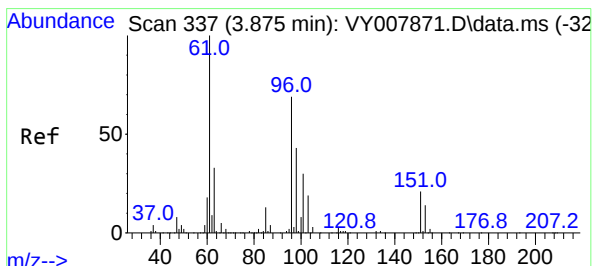
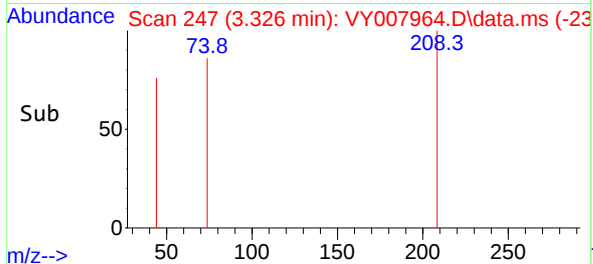
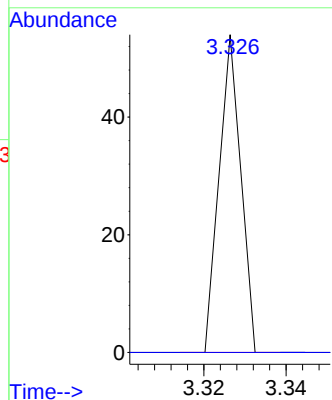
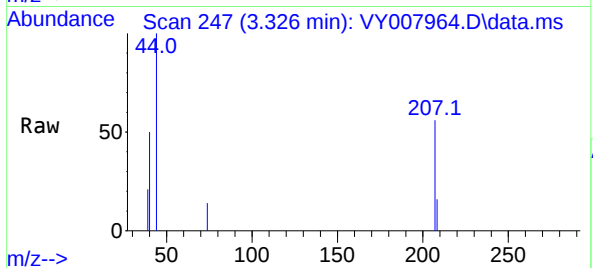




#8
Diethyl Ether
Concen: 11.710 ug/l
RT: 3.326 min Scan# 247
Delta R.T. -0.201 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

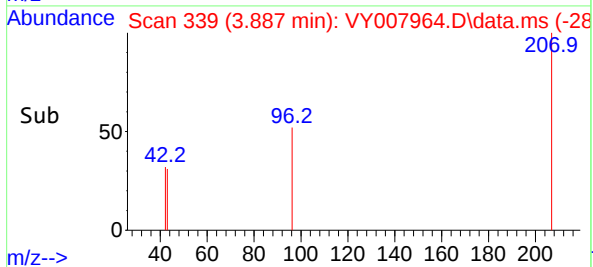
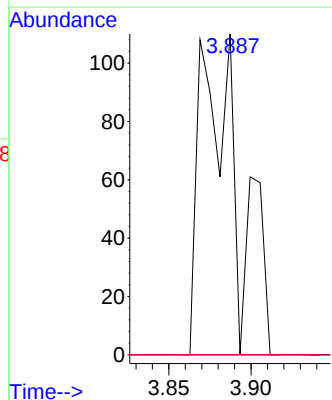
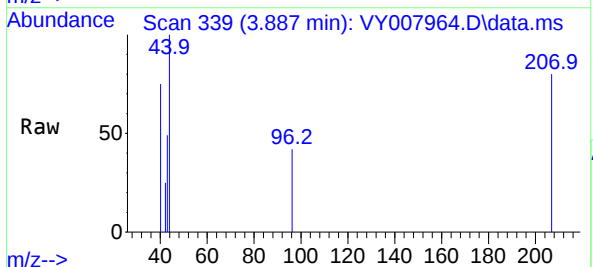
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

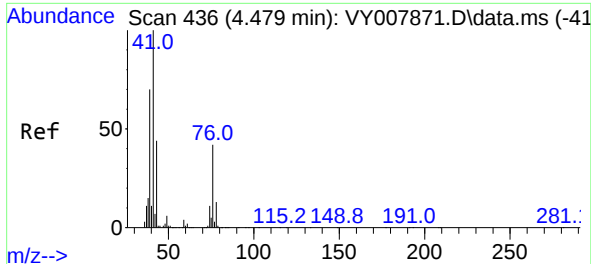
Tgt Ion: 74 Resp: 20
Ion Ratio Lower Upper
74 100
45 0.0 55.1 165.5#



#12
1,1-Dichloroethene
Concen: 65.676 ug/l
RT: 3.887 min Scan# 339
Delta R.T. 0.012 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 96 Resp: 179
Ion Ratio Lower Upper
96 100
61 0.0 145.8 218.6#
98 0.0 52.5 78.7#





#14

Allyl chloride

Concen: 4.363 ug/l

RT: 4.485 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA_Y

ClientSampleId :

G-6-7-14-15

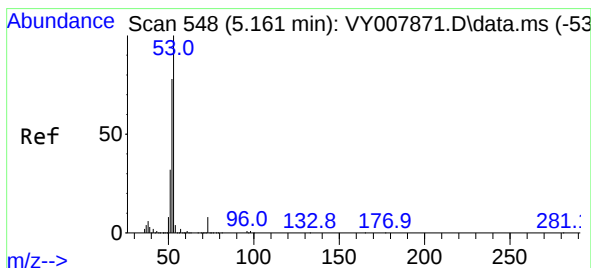
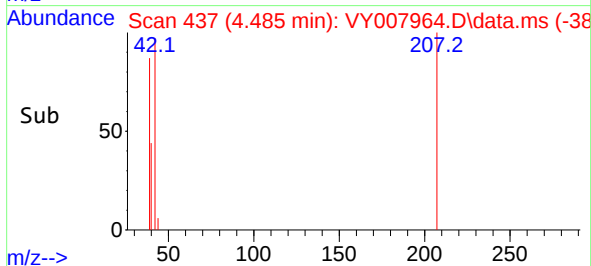
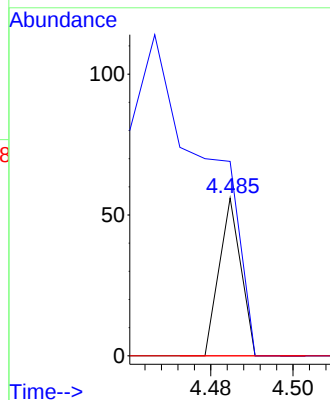
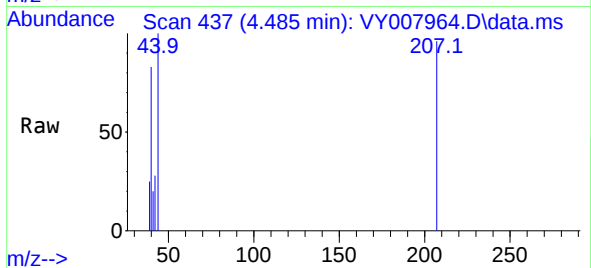
Tgt Ion: 41 Resp: 20

Ion Ratio Lower Upper

41 100

39 745.0 58.8 88.2#

76 0.0 25.1 37.7#



#15

Acrylonitrile

Concen: 23.071 ug/l

RT: 5.076 min Scan# 534

Delta R.T. -0.085 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

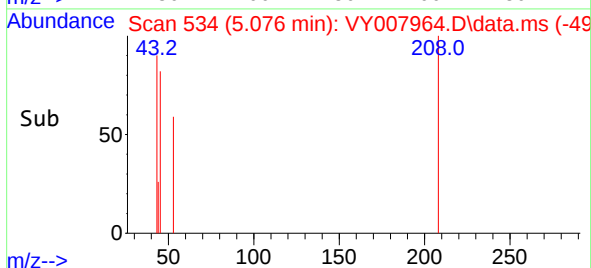
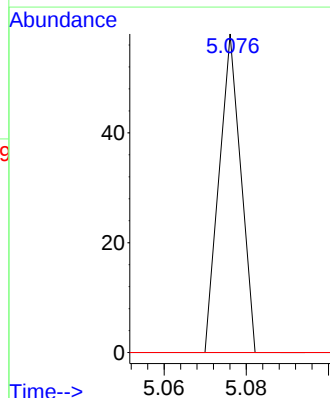
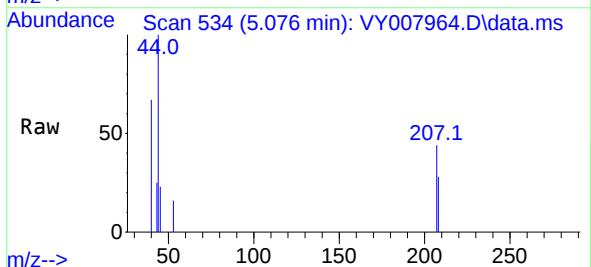
Tgt Ion: 53 Resp: 21

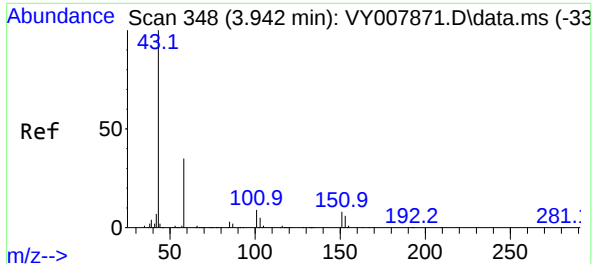
Ion Ratio Lower Upper

53 100

52 0.0 67.0 100.4#

51 0.0 29.8 44.6#

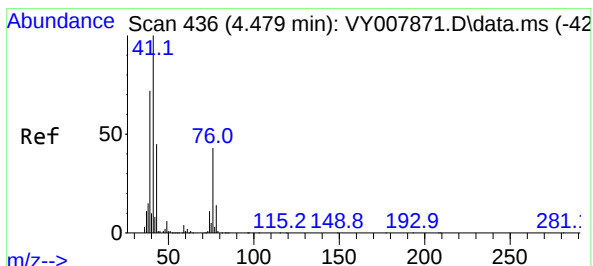
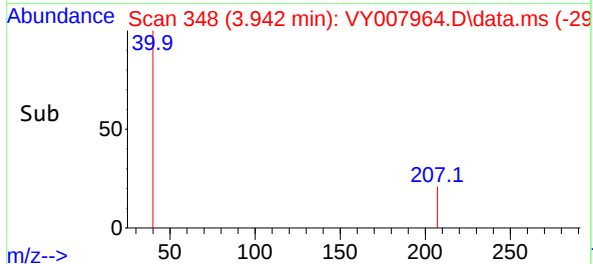
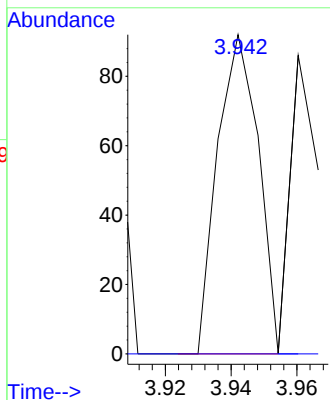
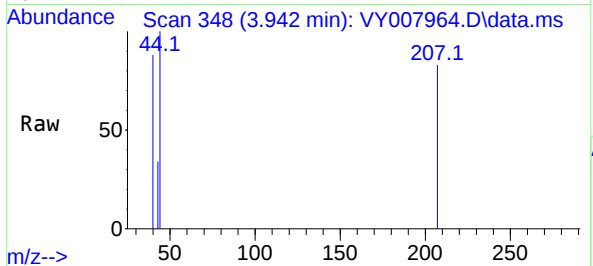




#16
Acetone
Concen: 104.055 ug/l
RT: 3.942 min Scan# 341
Delta R.T. -0.000 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

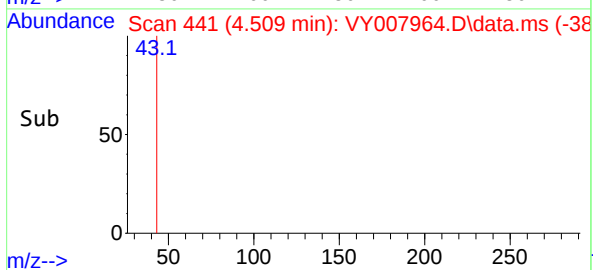
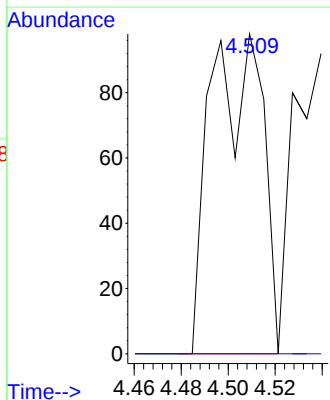
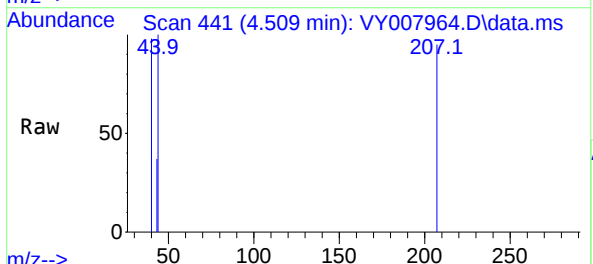
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G-6-7-14-15

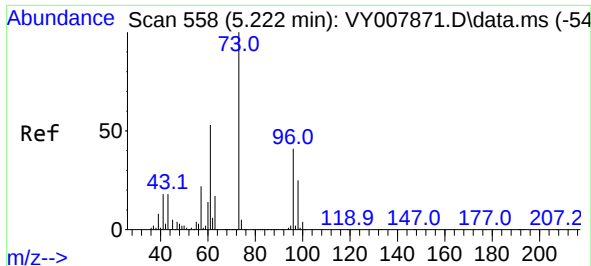
Tgt Ion: 43 Resp: 79
Ion Ratio Lower Upper
43 100
58 0.0 22.0 33.0#



#18
Methyl Acetate
Concen: 87.326 ug/l
RT: 4.509 min Scan# 441
Delta R.T. 0.037 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 43 Resp: 150
Ion Ratio Lower Upper
43 100
74 0.0 16.6 24.8#

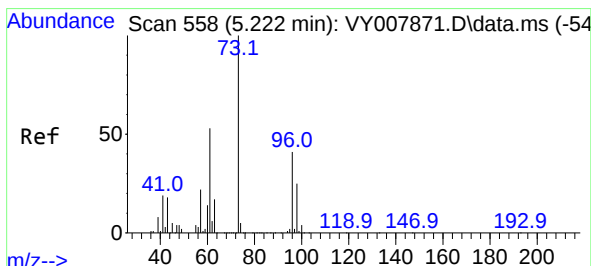
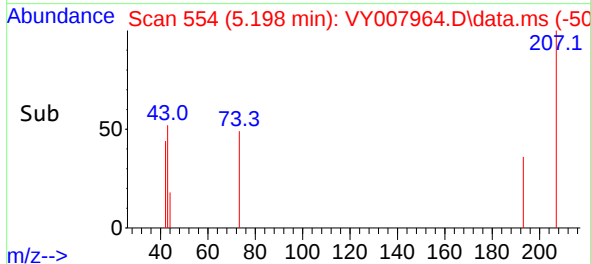
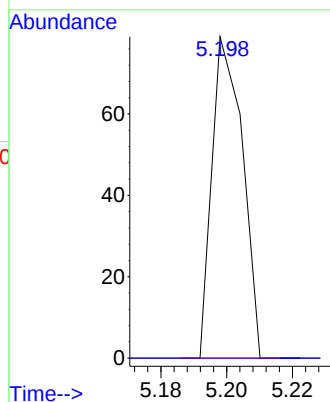
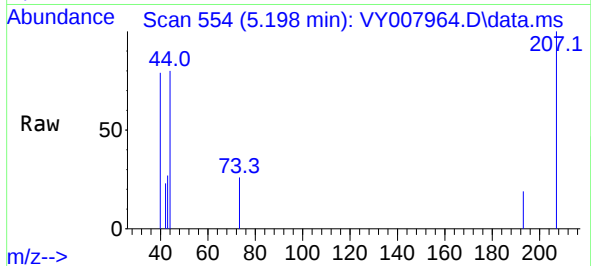




#19
Methyl tert-butyl Ether
Concen: 5.965 ug/l
RT: 5.198 min Scan# 51
Delta R.T. -0.024 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

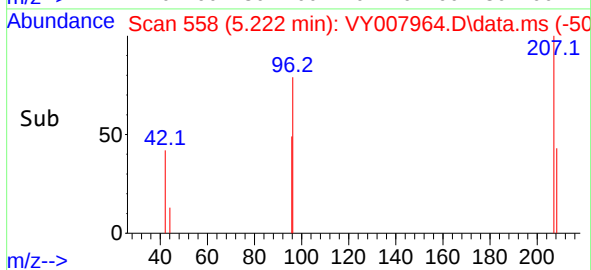
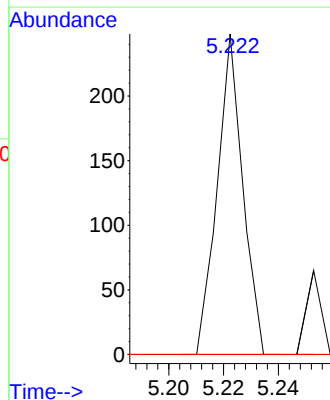
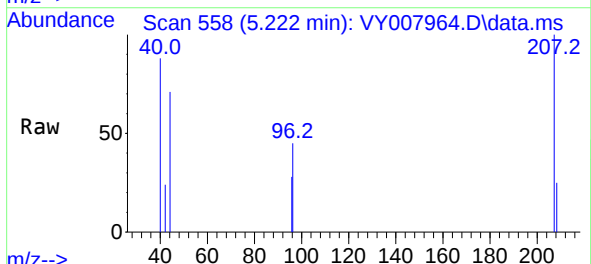
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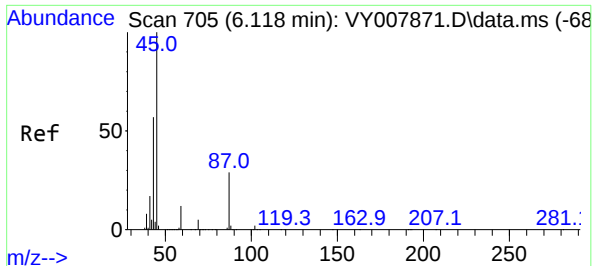
Tgt Ion: 73 Resp: 51
Ion Ratio Lower Upper
73 100
57 0.0 18.6 27.8#



#21
trans-1,2-Dichloroethene
Concen: 52.437 ug/l
RT: 5.222 min Scan# 558
Delta R.T. -0.000 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 96 Resp: 160
Ion Ratio Lower Upper
96 100
61 0.0 120.5 180.7#
98 0.0 49.8 74.8#

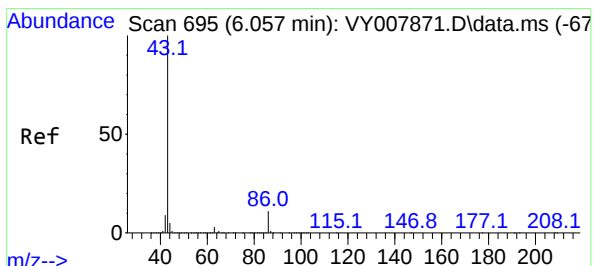
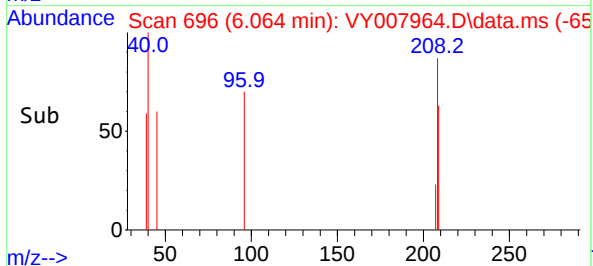
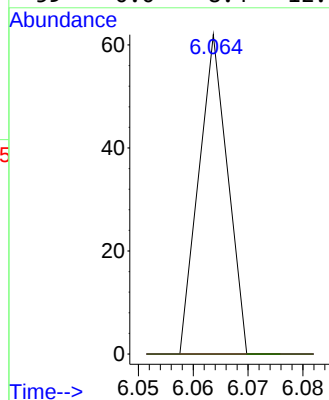
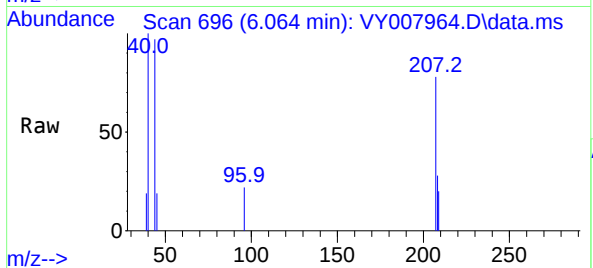




#22
Diisopropyl ether
Concen: 2.332 ug/l
RT: 6.064 min Scan# 61
Delta R.T. -0.049 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

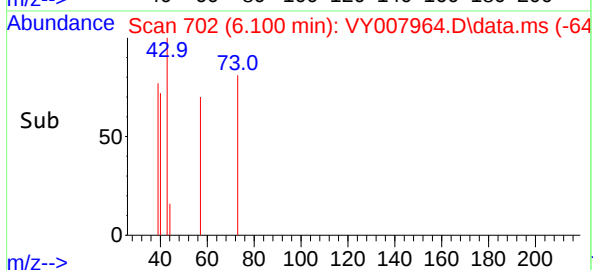
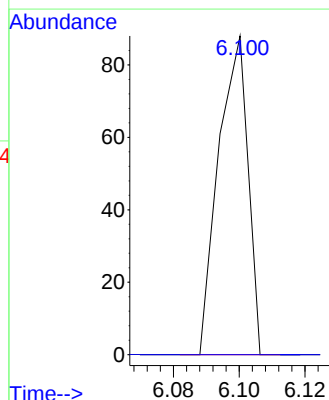
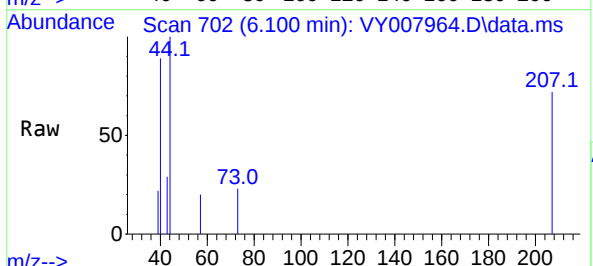
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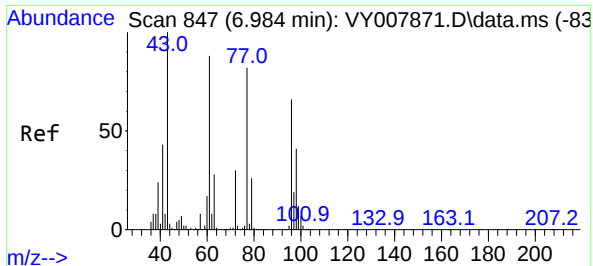
Tgt Ion:	45	Resp:	23
Ion	Ratio	Lower	Upper
45	100		
43	0.0	49.3	73.9#
87	0.0	19.2	28.8#
59	0.0	8.4	12.6#



#23
Vinyl Acetate
Concen: 8.904 ug/l
RT: 6.100 min Scan# 702
Delta R.T. 0.043 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion:	43	Resp:	55
Ion	Ratio	Lower	Upper
43	100		
86	0.0	7.1	10.7#





#25

2-Butanone

Concen: 40.293 ug/l

RT: 6.990 min Scan# 84

Delta R.T. 0.006 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA_Y

ClientSampleId :

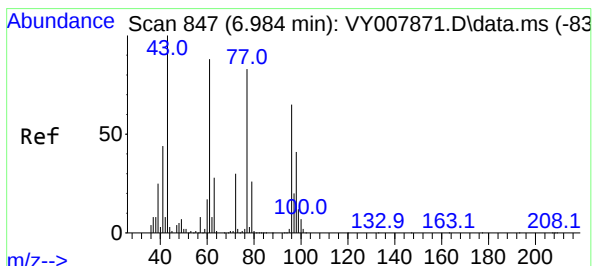
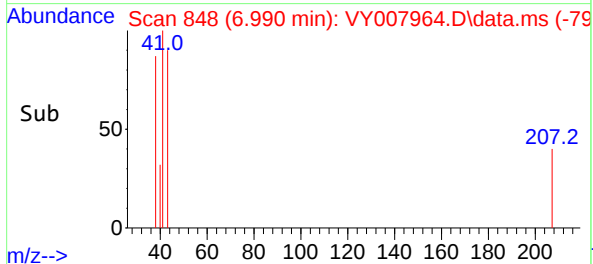
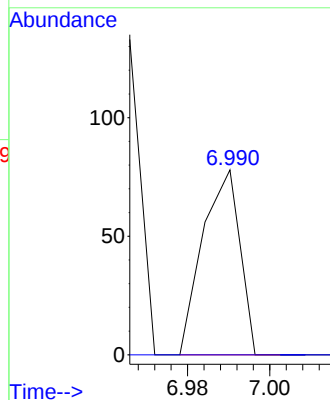
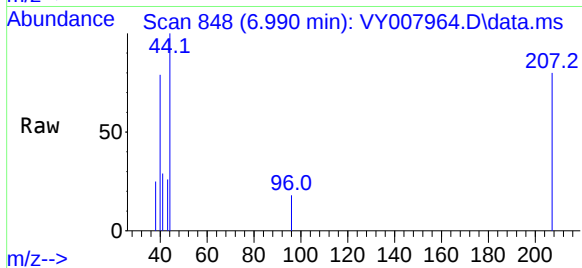
G-6-7-14-15

Tgt Ion: 43 Resp: 49

Ion Ratio Lower Upper

43 100

72 0.0 17.7 26.5#



#26

2,2-Dichloropropane

Concen: 6.215 ug/l

RT: 7.015 min Scan# 852

Delta R.T. 0.037 min

Lab File: VY007964.D

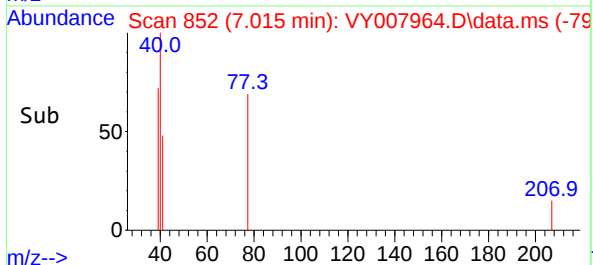
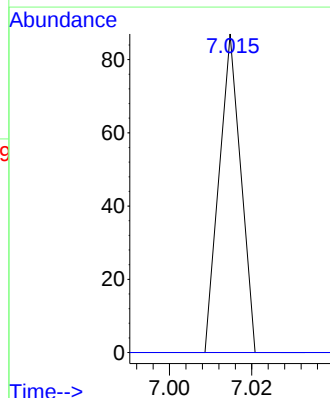
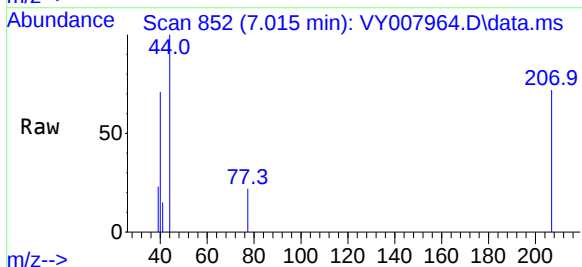
Acq: 21 Mar 2022 18:56

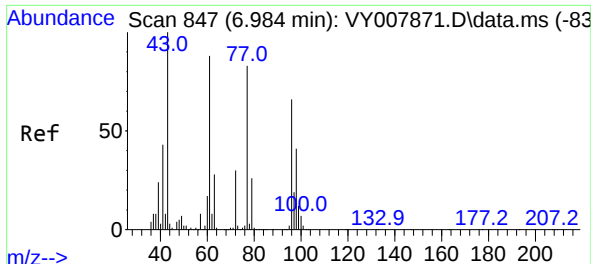
Tgt Ion: 77 Resp: 32

Ion Ratio Lower Upper

77 100

97 0.0 10.4 31.4#

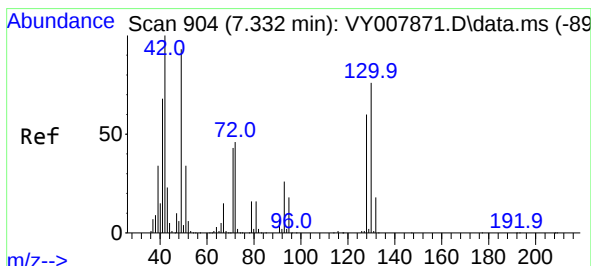
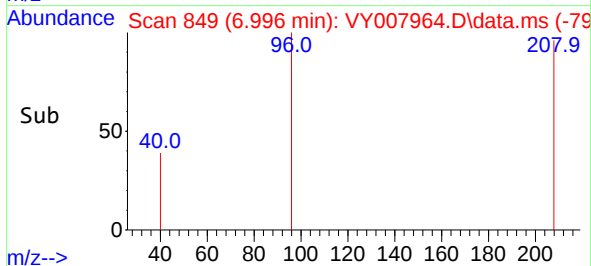
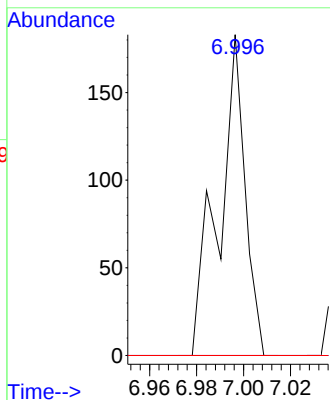
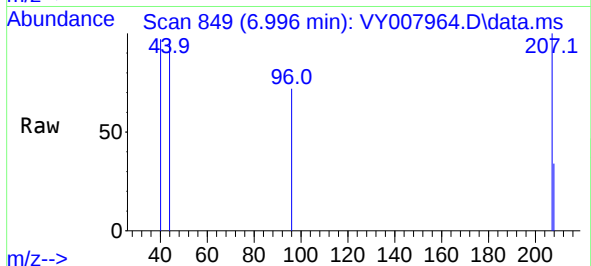




#27
 cis-1,2-Dichloroethene
 Concen: 39.045 ug/l
 RT: 6.996 min Scan# 84
 Delta R.T. 0.012 min
 Lab File: VY007964.D
 Acq: 21 Mar 2022 18:56

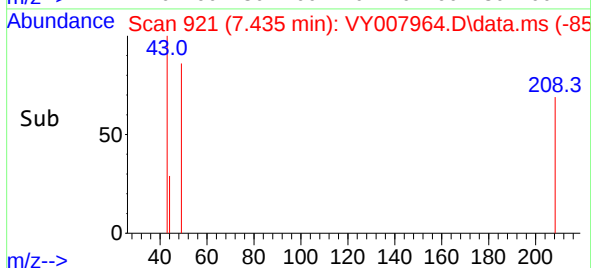
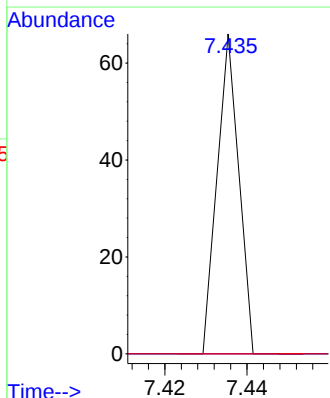
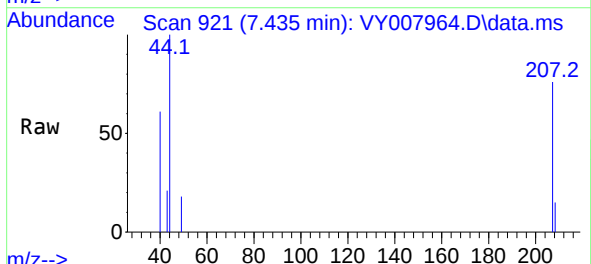
Instrument :
 MSVOA_Y
 ClientSampleId :
 G-6-7-14-15

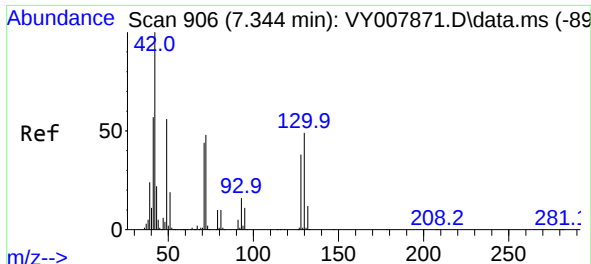
Tgt Ion: 96 Resp: 143
 Ion Ratio Lower Upper
 96 100
 61 0.0 0.0 319.8
 98 0.0 0.0 127.0



#28
 Bromochloromethane
 Concen: 10.938 ug/l
 RT: 7.435 min Scan# 921
 Delta R.T. 0.104 min
 Lab File: VY007964.D
 Acq: 21 Mar 2022 18:56

Tgt Ion: 49 Resp: 24
 Ion Ratio Lower Upper
 49 100
 129 0.0 0.0 2.2
 130 0.0 55.4 83.0#





#29

Tetrahydrofuran

Concen: 160.422 ug/l

RT: 7.320 min Scan# 906

Delta R.T. -0.024 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA_Y

ClientSampleId :

G-6-7-14-15

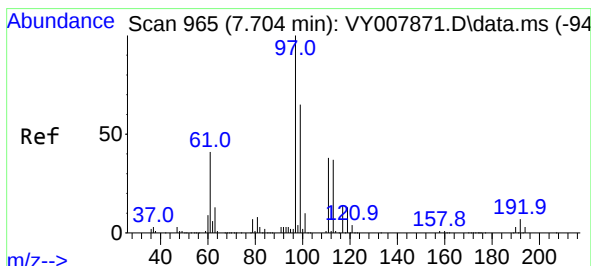
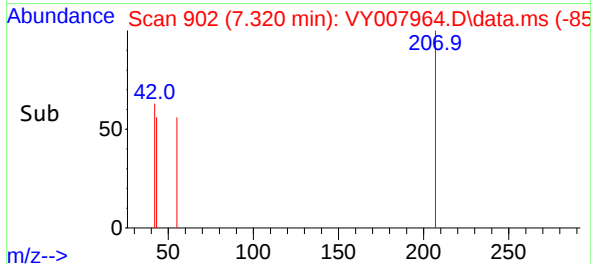
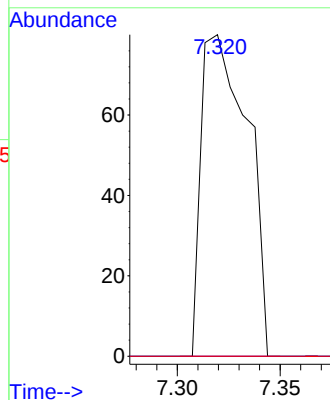
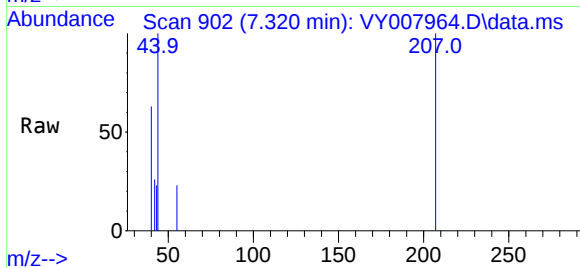
Tgt Ion: 42 Resp: 125

Ion Ratio Lower Upper

42 100

72 0.0 30.3 45.5#

71 0.0 29.0 43.4#



#32

1,1,1-Trichloroethane

Concen: 3.674 ug/l

RT: 7.960 min Scan# 1007

Delta R.T. 0.256 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

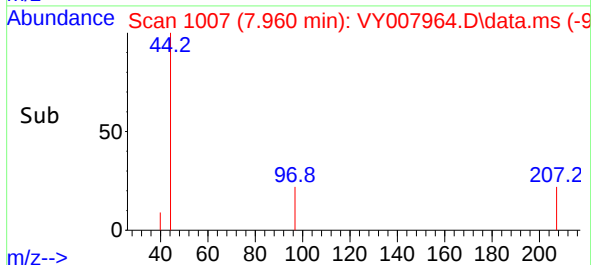
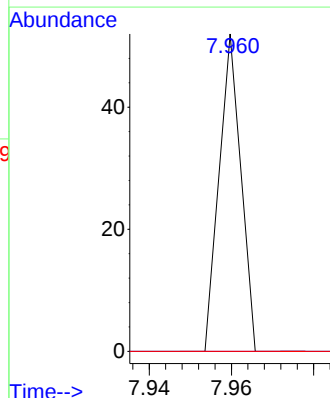
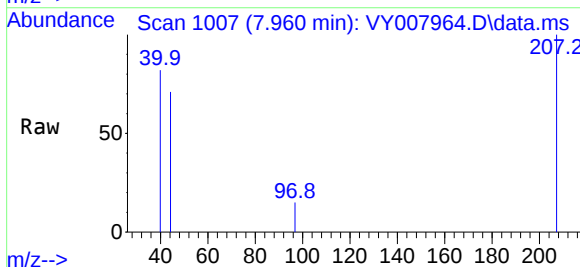
Tgt Ion: 97 Resp: 19

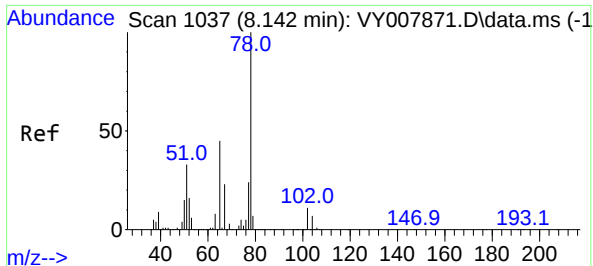
Ion Ratio Lower Upper

97 100

99 0.0 50.7 76.1#

61 0.0 37.6 56.4#





#33

1,2-Dichloroethane-d4

Concen: 95.742 ug/l

RT: 8.149 min Scan# 110

Delta R.T. 0.012 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA_Y

ClientSampleId :

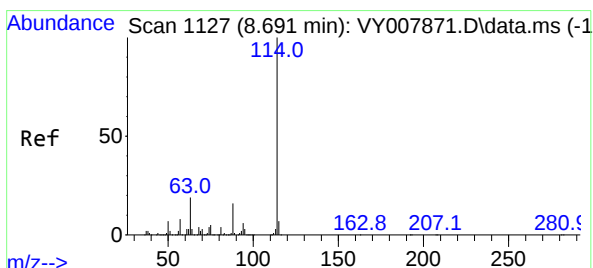
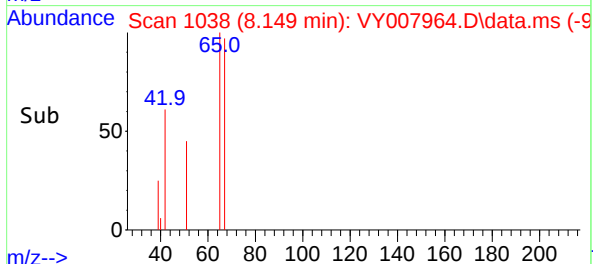
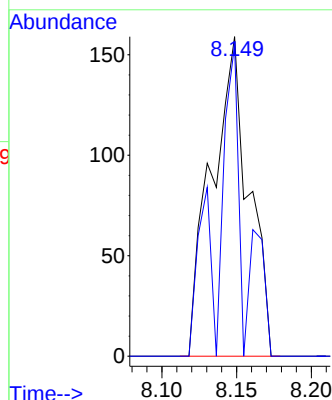
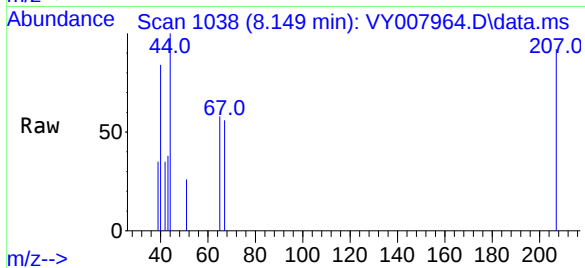
G-6-7-14-15

Tgt Ion: 65 Resp: 274

Ion Ratio Lower Upper

65 100

67 71.9 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

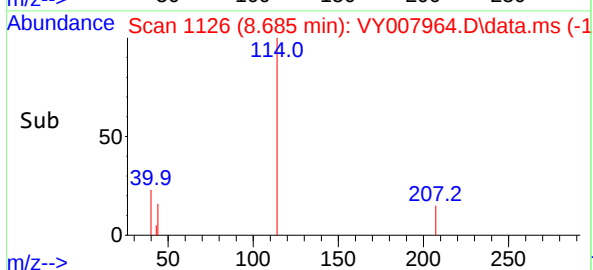
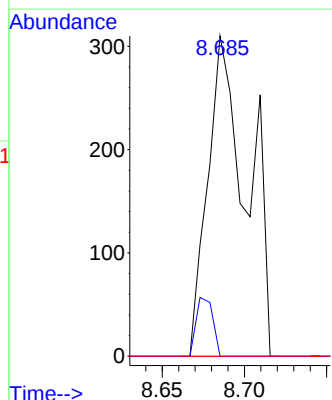
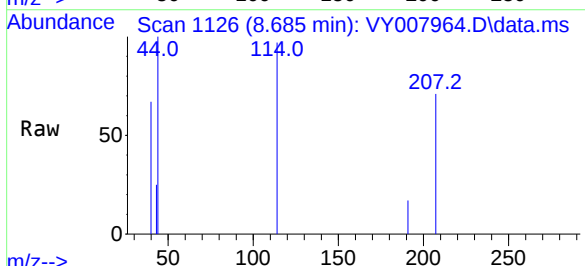
Tgt Ion: 114 Resp: 510

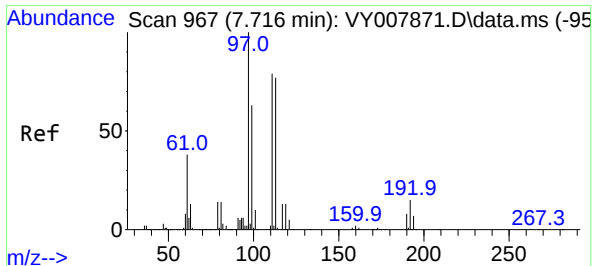
Ion Ratio Lower Upper

114 100

63 0.0 0.0 43.2

88 0.0 0.0 31.8





#35

Dibromofluoromethane

Concen: 46.068 ug/l

RT: 7.710 min Scan# 9

Delta R.T. -0.006 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

Instrument :

MSVOA_Y

ClientSampleId :

G-6-7-14-15

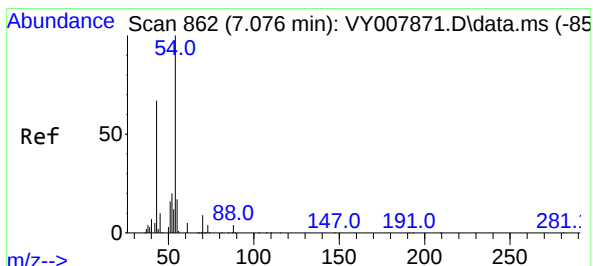
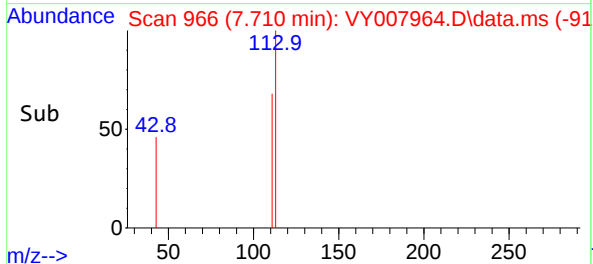
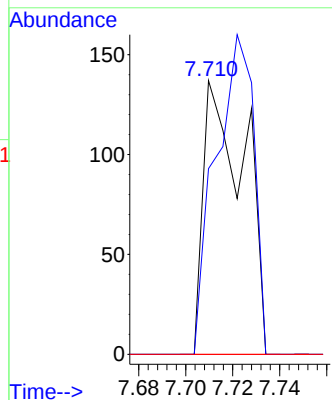
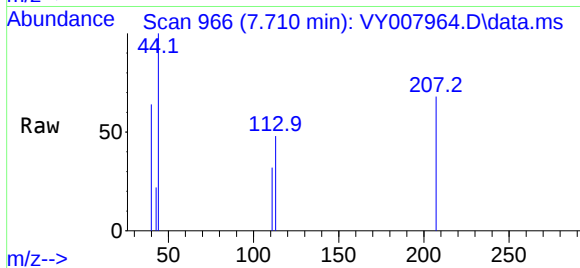
Tgt Ion:113 Resp: 165

Ion Ratio Lower Upper

113 100

111 109.1 82.6 124.0

192 0.0 17.6 26.4#



#37

Ethyl Acetate

Concen: 7.404 ug/l

RT: 7.039 min Scan# 856

Delta R.T. -0.031 min

Lab File: VY007964.D

Acq: 21 Mar 2022 18:56

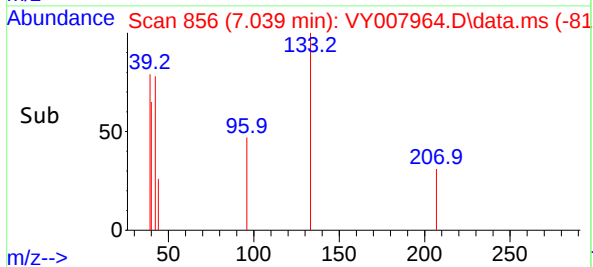
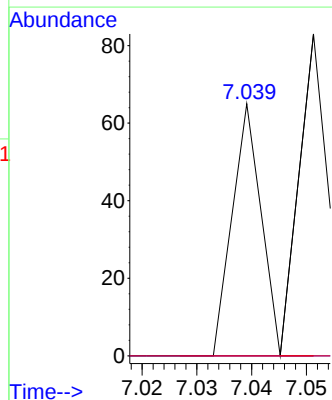
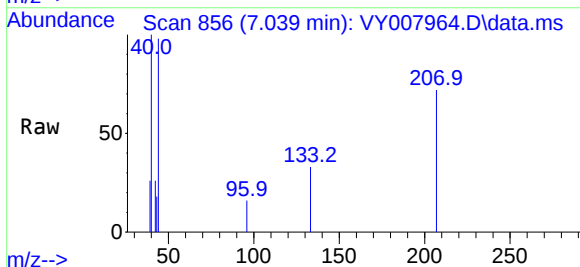
Tgt Ion: 43 Resp: 24

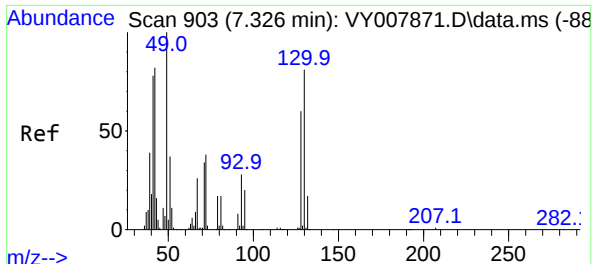
Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

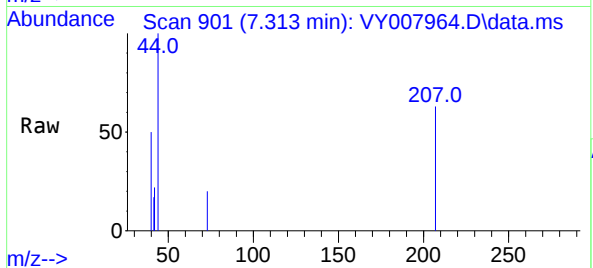
70 0.0 7.1 10.7#





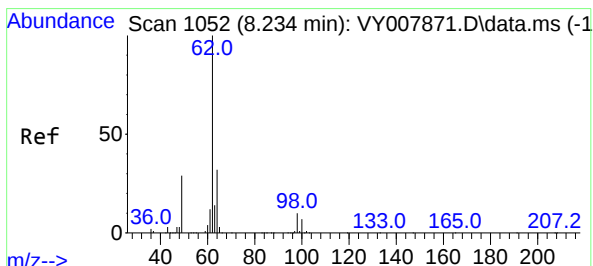
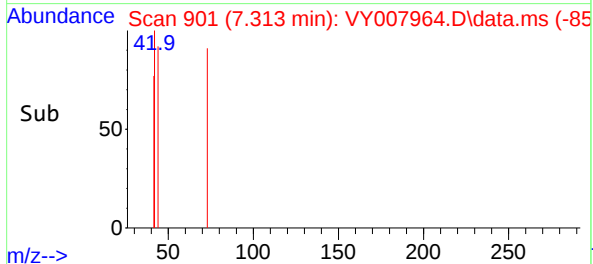
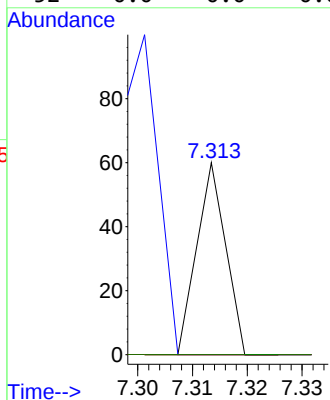
#41
Methacrylonitrile
Concen: 11.005 ug/l
RT: 7.313 min Scan# 901
Delta R.T. 0.006 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15



Tgt Ion: 41 Resp: 22

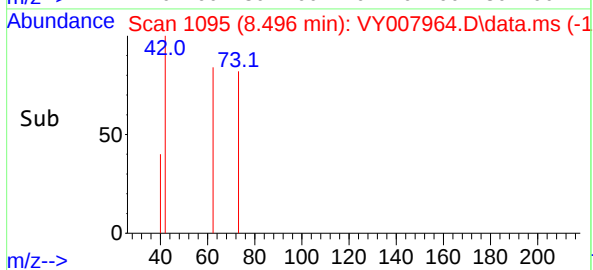
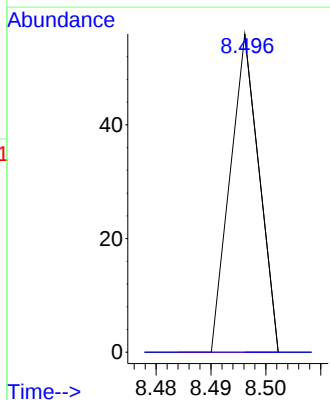
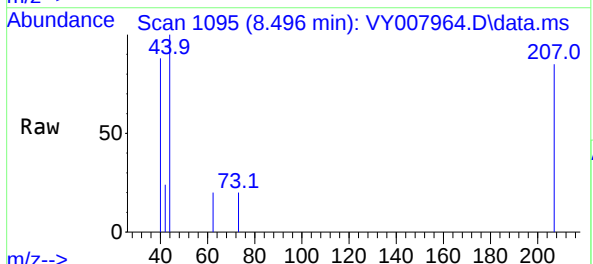
Ion	Ratio	Lower	Upper
41	100		
39	500.0	92.9	139.3#
67	0.0	0.0	0.0
52	0.0	0.0	0.0

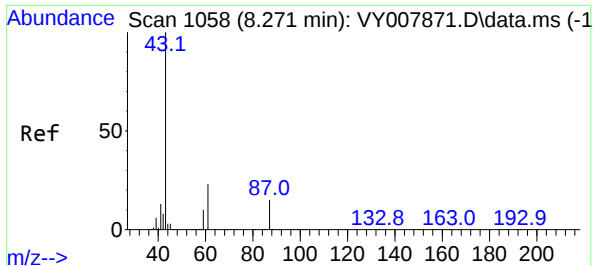


#42
1,2-Dichloroethane
Concen: 4.450 ug/l
RT: 8.496 min Scan# 1095
Delta R.T. 0.262 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 62 Resp: 20

Ion	Ratio	Lower	Upper
62	100		
98	0.0	0.0	14.8

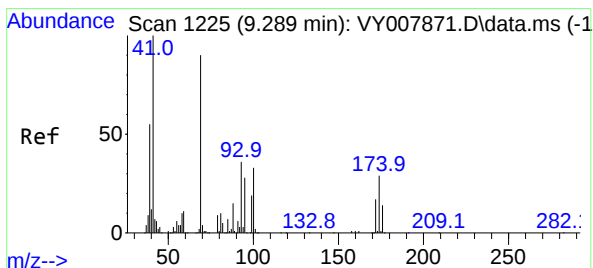
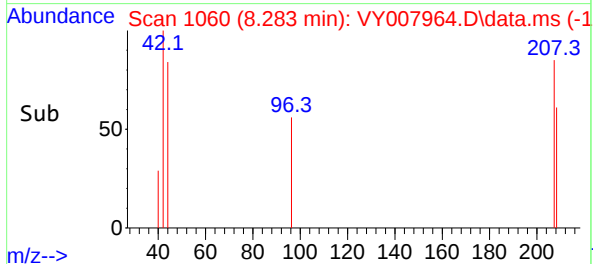
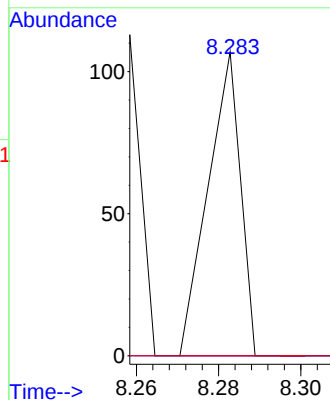
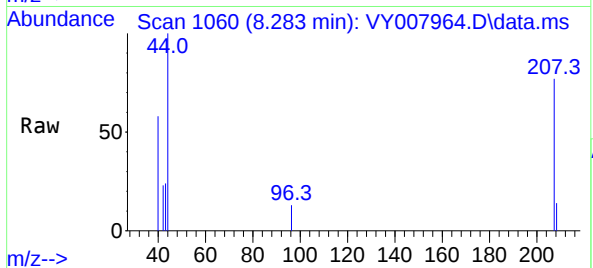




#43
Isopropyl Acetate
Concen: 9.441 ug/l
RT: 8.283 min Scan# 1060
Delta R.T. 0.012 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

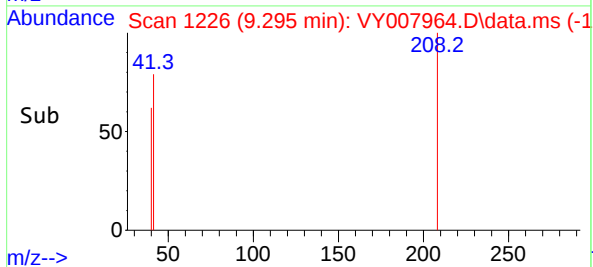
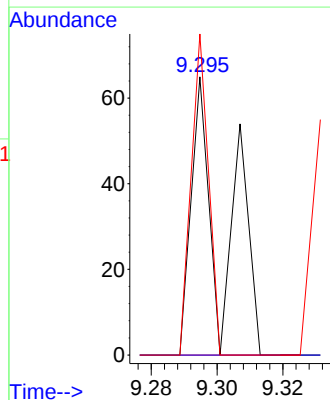
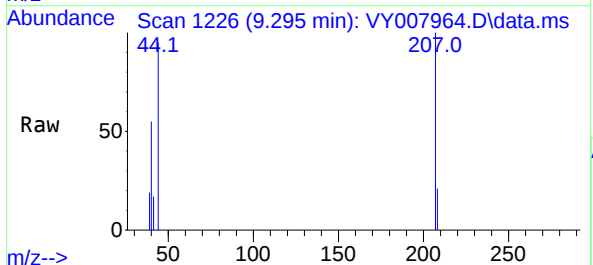
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

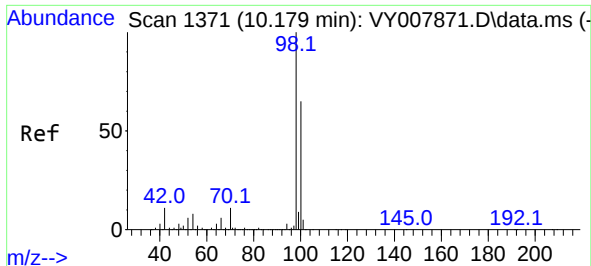
Tgt Ion: 43	Resp: 59
Ion Ratio	Lower Upper
43 100	
61 0.0	20.2 30.2#
87 0.0	8.9 13.3#



#48
Methyl methacrylate
Concen: 15.828 ug/l
RT: 9.295 min Scan# 1226
Delta R.T. 0.006 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 41	Resp: 44		
Ion Ratio	Lower	Upper	
41 100			
69 0.0	58.2	87.2#	
39 61.4	47.4	71.0	

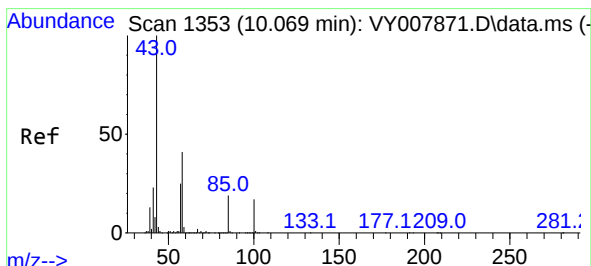
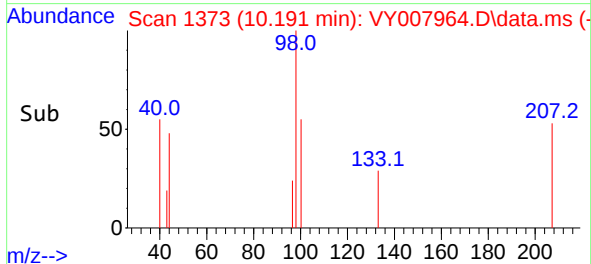
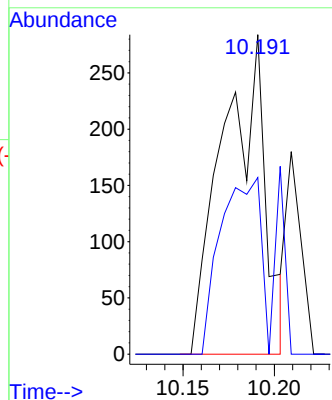
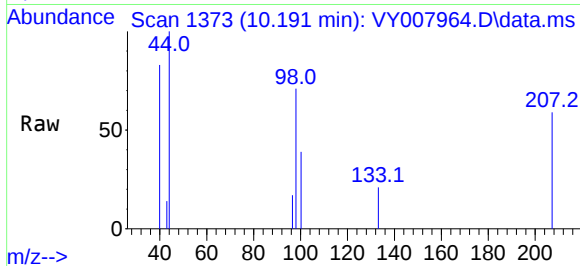




#50
Toluene-d8
Concen: 41.701 ug/l
RT: 10.191 min Scan# 1373
Delta R.T. 0.012 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

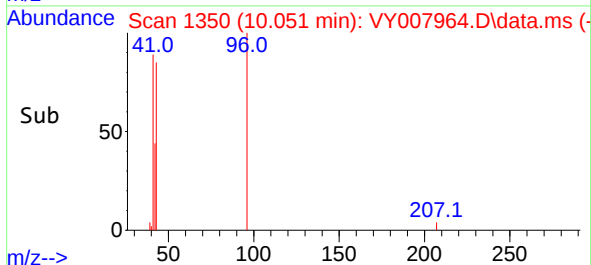
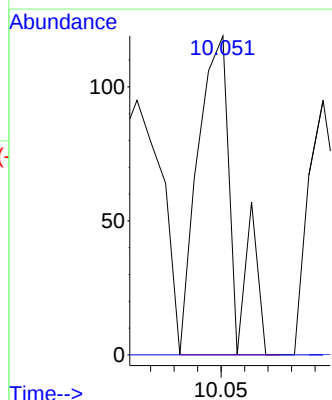
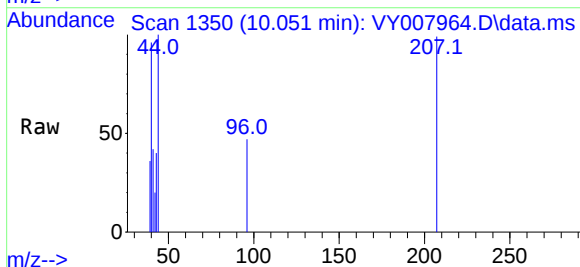
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

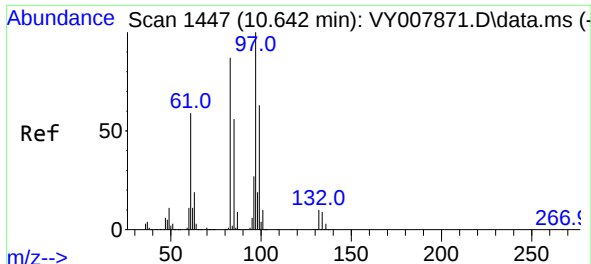
Tgt Ion: 98 Resp: 461
Ion Ratio Lower Upper
98 100
100 0.0 50.2 75.2#



#51
4-Methyl-2-Pentanone
Concen: 38.573 ug/l
RT: 10.051 min Scan# 1350
Delta R.T. -0.018 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 43 Resp: 127
Ion Ratio Lower Upper
43 100
58 0.0 28.1 42.1#

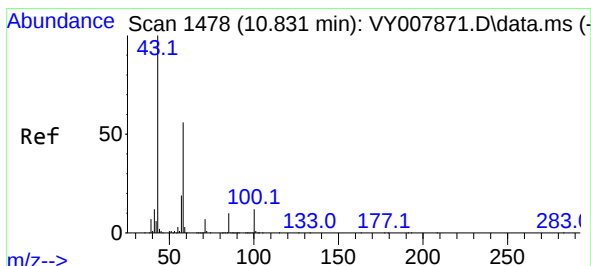
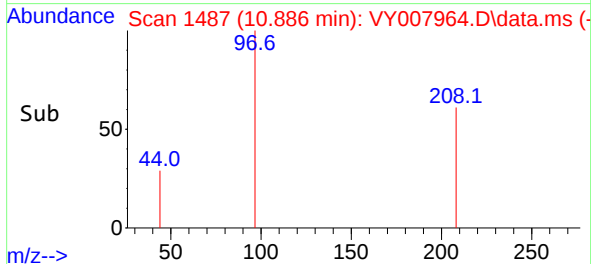
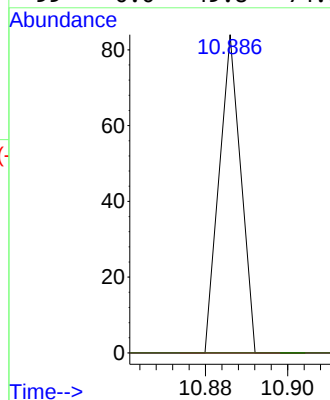
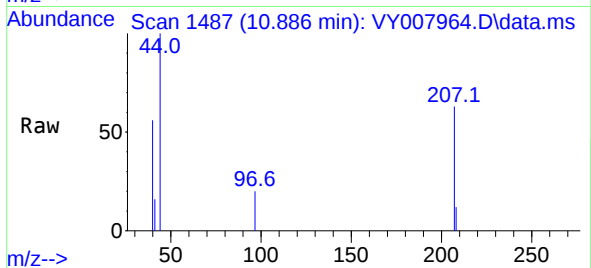




#55
1,1,2-Trichloroethane
Concen: 9.074 ug/l
RT: 10.886 min Scan# 1487
Delta R.T. 0.244 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

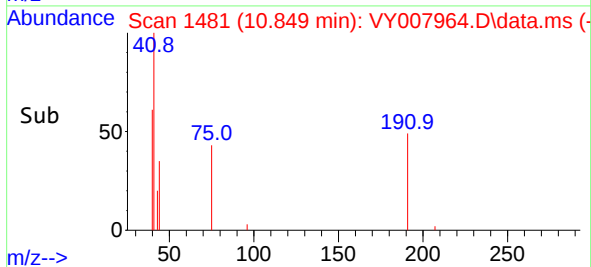
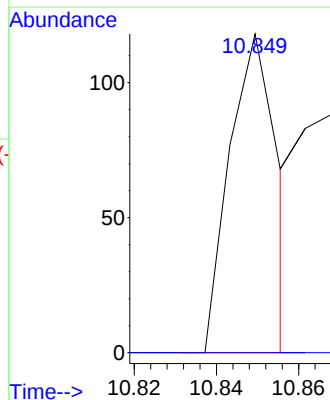
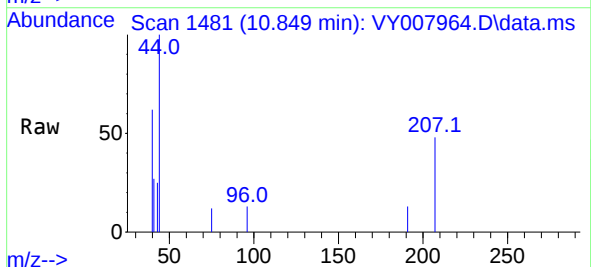
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

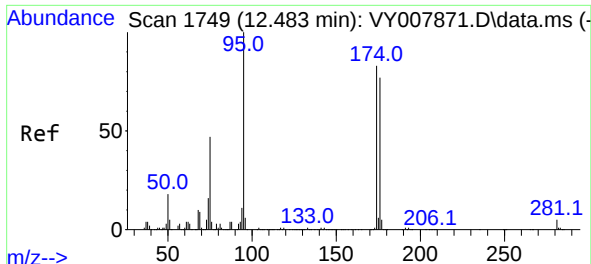
Tgt Ion: 97	Resp:	31	
Ion	Ratio	Lower	Upper
97	100		
83	0.0	69.8	104.8#
85	0.0	44.3	66.5#
99	0.0	49.8	74.6#



#59
2-Hexanone
Concen: 40.774 ug/l
RT: 10.849 min Scan# 1481
Delta R.T. 0.018 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 43	Resp:	96	
Ion Ratio	Lower	Upper	
43 100			
58 0.0	24.4	73.4#	

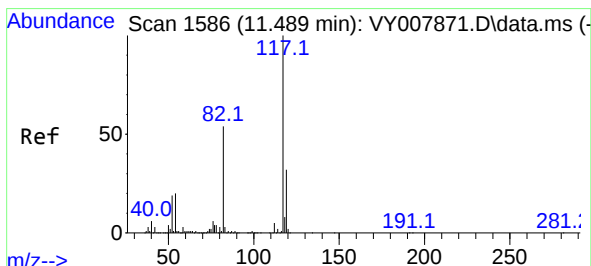
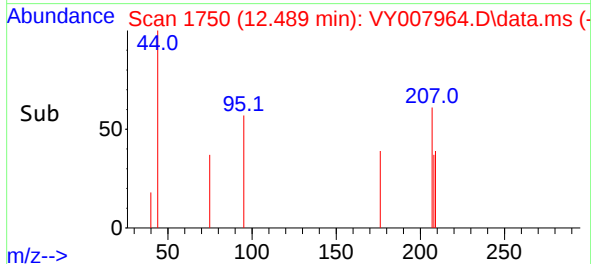
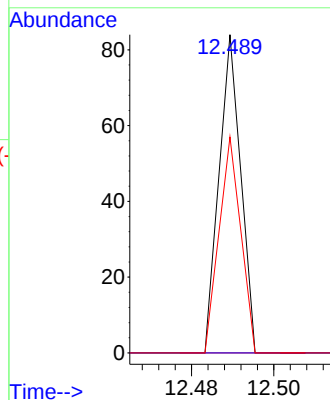
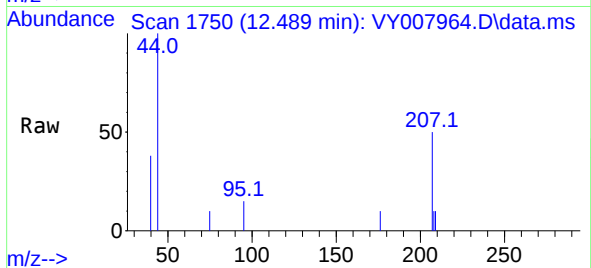




#62
4-Bromofluorobenzene
Concen: 6.031 ug/l
RT: 12.489 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

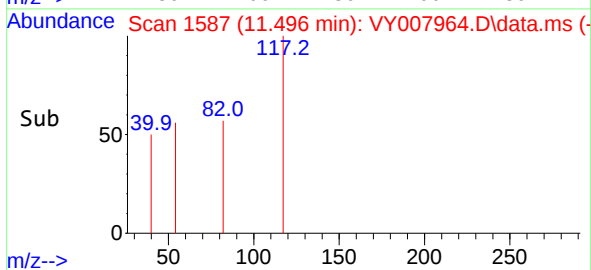
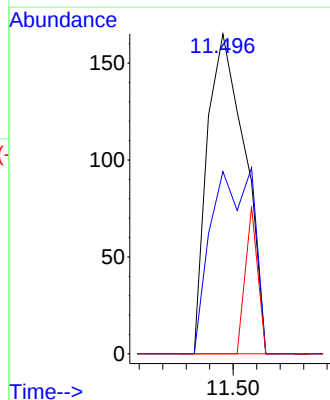
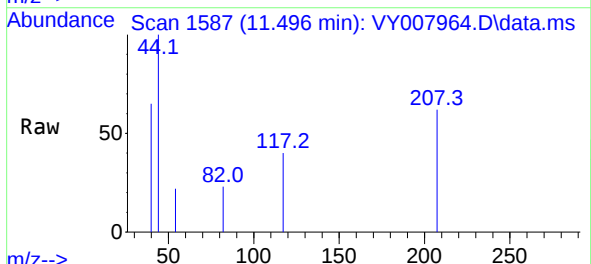
Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

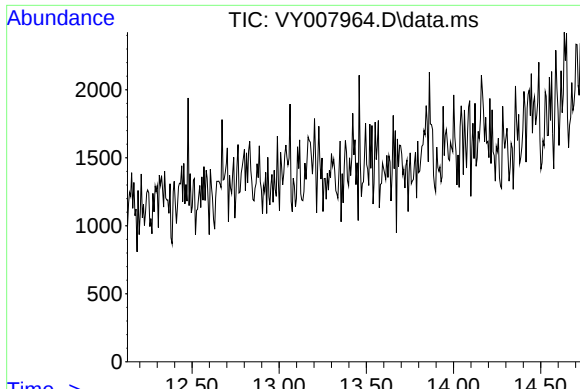
Tgt Ion: 95	Resp:	31
Ion Ratio	Lower	Upper
95	100	
174	0.0	177.0
176	67.7	175.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.496 min Scan# 1587
Delta R.T. 0.006 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Tgt Ion: 117	Resp:	184
Ion Ratio	Lower	Upper
117	100	
82	57.0	64.4
119	0.0	38.0





#72
1,4-Dichlorobenzene-d4
Concen: 0.000 ug/l
Expected RT: 13.43 min
Lab File: VY007964.D
Acq: 21 Mar 2022 18:56

Instrument :
MSVOA_Y
ClientSampleId :
G-6-7-14-15

Tgt Ion: 152
Sig Exp Ratio
152 100
115 56.5
150 173.8

