

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY091922\
 Data File : VY010565.D
 Acq On : 19 Sep 2022 20:45
 Operator : KP/MD
 Sample : N4641-07
 Misc : 5.99g/5.0mL/MSVOA_Y/SOIL
 ALS Vial : 23 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 A1-8-17.5

Quant Time: Sep 20 01:06:24 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y091922S.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 20 01:02:44 2022
 Response via : Initial Calibration

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

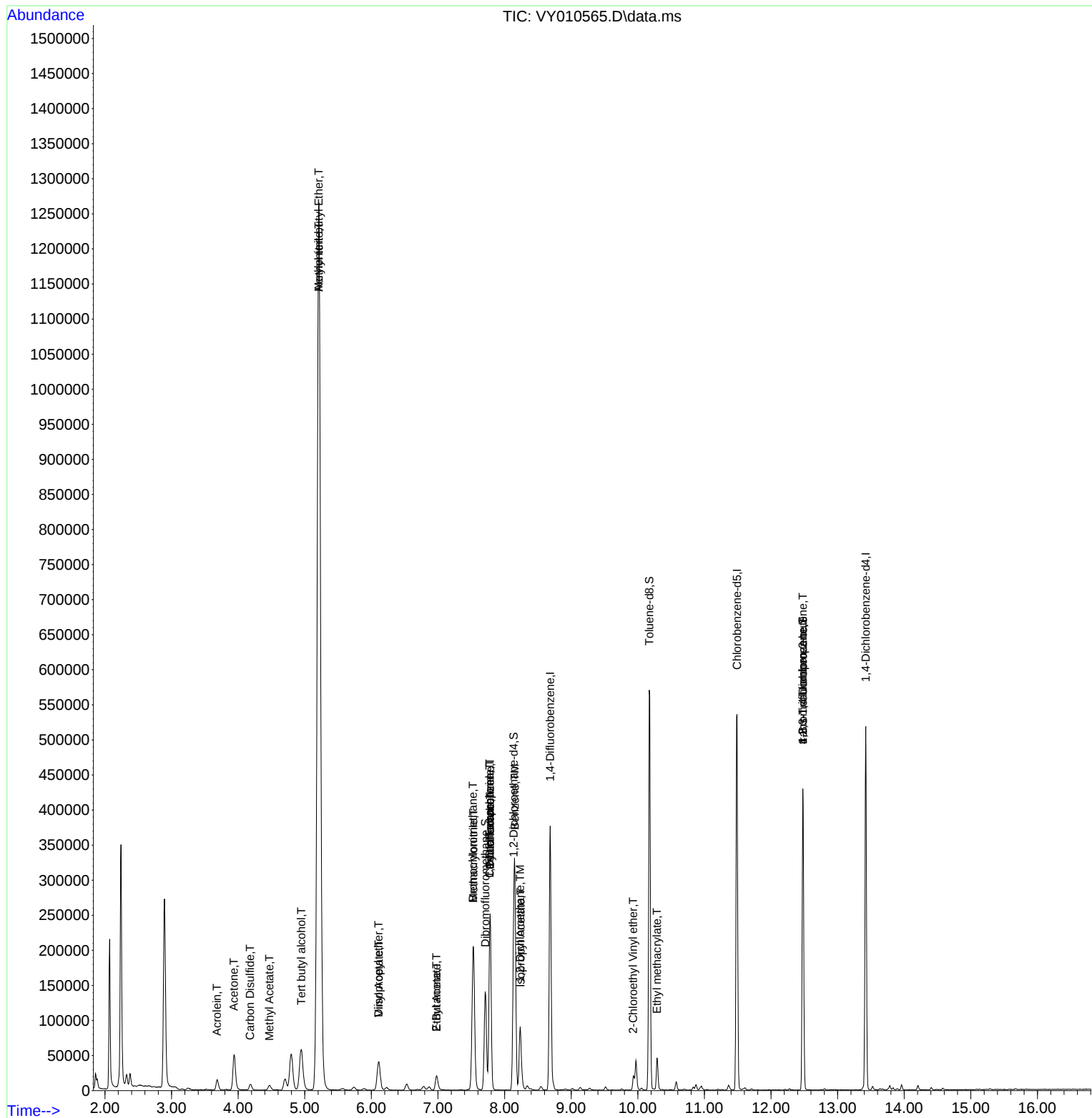
Internal Standards						
1) Pentafluorobenzene	7.783	168	188854	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.685	114	316462	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.490	117	298456	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.422	152	131688	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.136	65	112903	62.504	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 125.000%	
35) Dibromofluoromethane	7.710	113	99875	49.451	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 98.900%	
50) Toluene-d8	10.173	98	377356	50.521	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 101.040%	
62) 4-Bromofluorobenzene	12.477	95	127715	45.881	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 91.760%	
Target Compounds						
						Qvalue
2) Dichlorodifluoromethane	1.894	85	22	Below Cal	#	43
3) Chloromethane	2.107	50	1213	Below Cal		95
4) Vinyl Chloride	2.247	62	68	Below Cal	#	43
5) Bromomethane	2.656	94	470	Below Cal		85
11) Tert butyl alcohol	4.948	59	112738	718.383	ug/l #	94
13) Acrolein	3.680	56	718	8.545	ug/l #	1
15) Acrylonitrile	5.210	53	22965	52.004	ug/l #	29
16) Acetone	3.936	43	89322	242.485	ug/l	92
17) Carbon Disulfide	4.180	76	16680	1.840	ug/l	99
18) Methyl Acetate	4.466	43	14200	12.061	ug/l #	89
19) Methyl tert-butyl Ether	5.210	73	2264949	544.764	ug/l	97
20) Methylene Chloride	4.704	84	12571	Below Cal	#	81
22) Diisopropyl ether	6.106	45	49628	10.457	ug/l #	89
23) Vinyl Acetate	6.112	43	26798	9.558	ug/l #	75
25) 2-Butanone	6.978	43	34876	60.531	ug/l #	84
28) Bromochloromethane	7.527	49	1546	6.136	ug/l #	16
31) Cyclohexane	7.783	56	11264	2.113	ug/l #	51
36) 1,1-Dichloropropene	7.777	75	14194	6.308	ug/l #	50
37) Ethyl Acetate	6.978	43	34876	26.832	ug/l #	72
38) Carbon Tetrachloride	7.777	117	18622	7.197	ug/l #	16
40) Benzene	8.155	78	259059	38.616	ug/l	96
41) Methacrylonitrile	7.533	41	91509	138.030	ug/l #	43
42) 1,2-Dichloroethane	8.234	62	16739	8.103	ug/l	90
43) Isopropyl Acetate	8.240	43	21713	9.113	ug/l #	71
56) Ethyl methacrylate	10.289	69	6071	3.126	ug/l #	84
58) 2-Chloroethyl Vinyl ether	9.929	63	48	20.517	ug/l #	48
76) 1,2,3-Trichloropropane	12.477	75	65137	51.825	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.477	75	65137	115.229	ug/l #	7

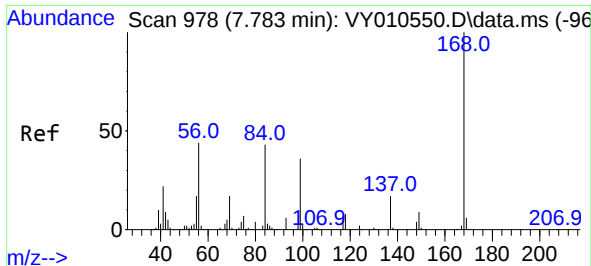
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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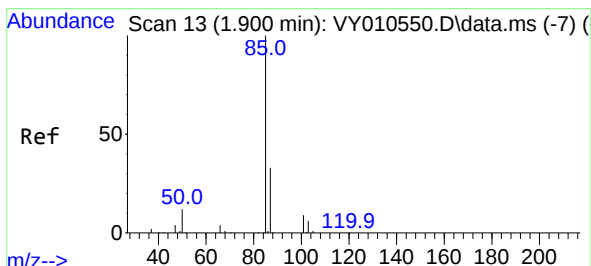
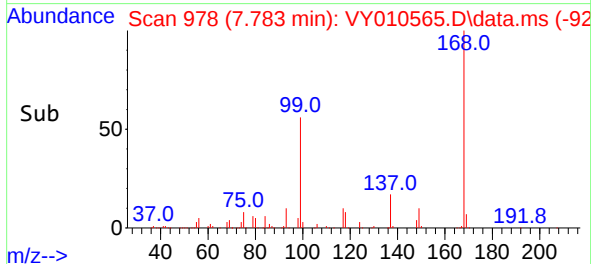
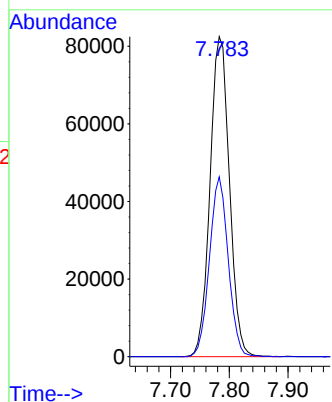
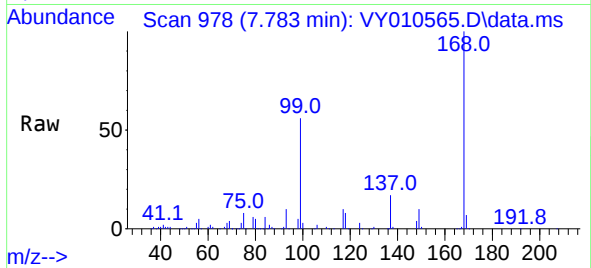




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

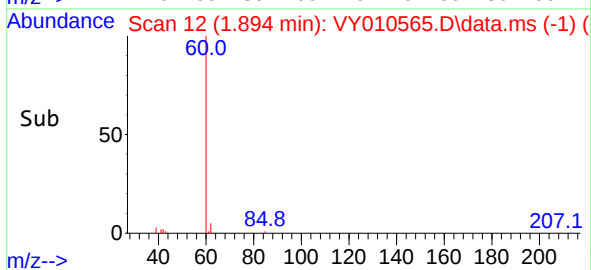
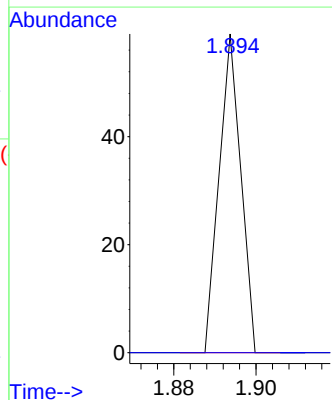
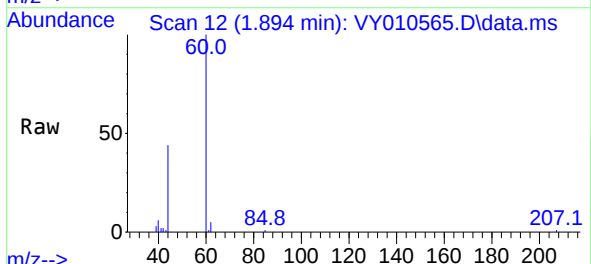
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

Tgt Ion:168 Resp: 188854
Ion Ratio Lower Upper
168 100
99 56.2 46.9 70.3



#2
Dichlorodifluoromethane
Concen: Below Cal
RT: 1.894 min Scan# 12
Delta R.T. -0.006 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 85 Resp: 22
Ion Ratio Lower Upper
85 100
87 0.0 16.1 48.2#

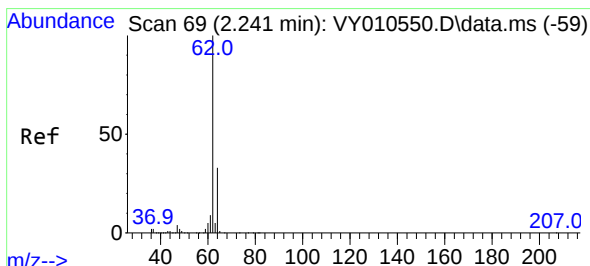
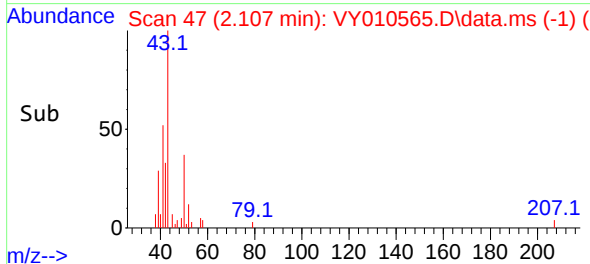
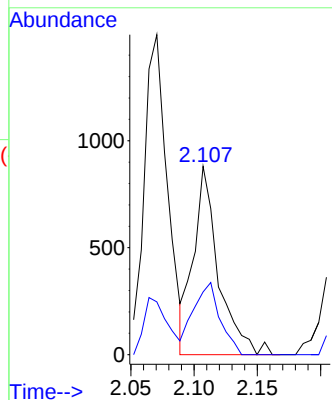
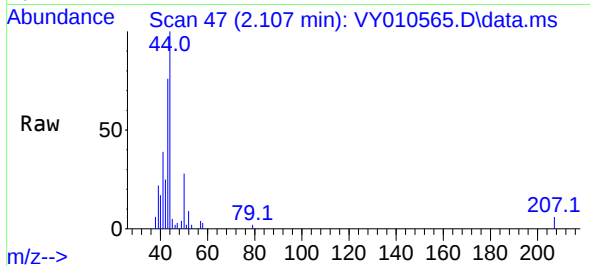




#3
Chloromethane
Concen: Below Cal
RT: 2.107 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

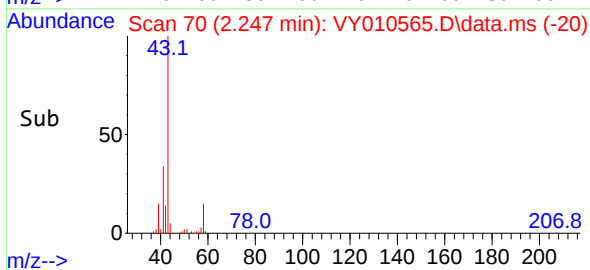
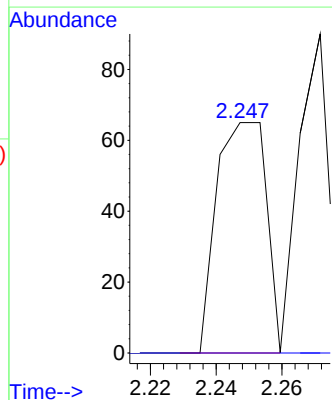
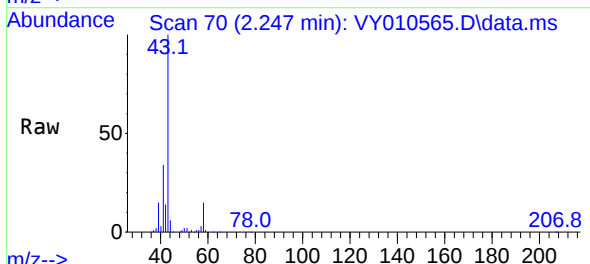
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

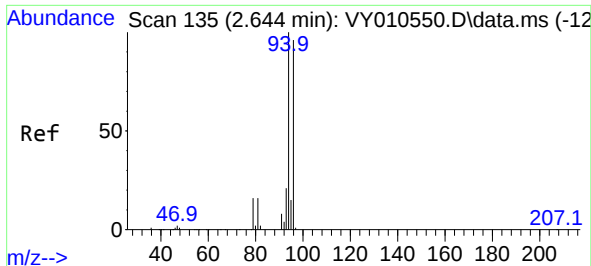
Tgt Ion: 50 Resp: 1213
Ion Ratio Lower Upper
50 100
52 33.3 24.6 37.0



#4
Vinyl Chloride
Concen: Below Cal
RT: 2.247 min Scan# 70
Delta R.T. 0.006 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 62 Resp: 68
Ion Ratio Lower Upper
62 100
64 0.0 25.0 37.6#

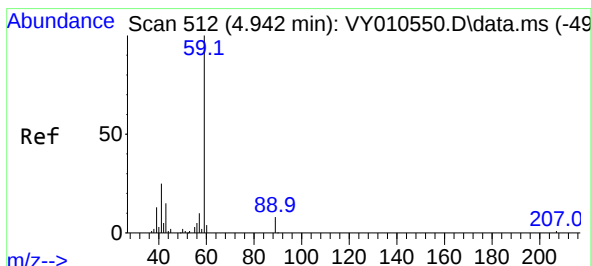
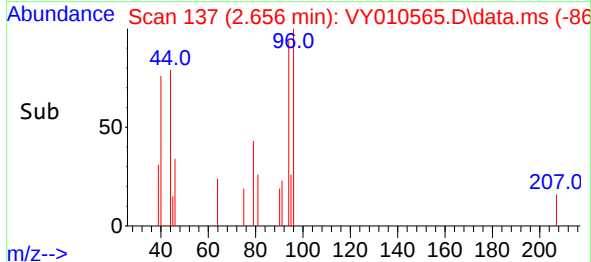
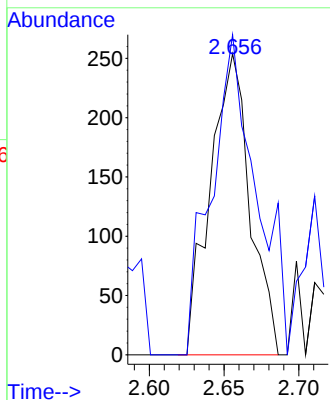
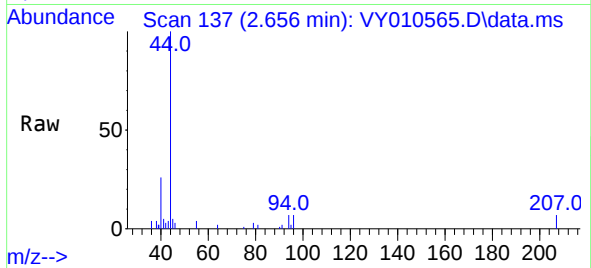




#5
Bromomethane
Concen: Below Cal
RT: 2.656 min Scan# 11
Delta R.T. 0.012 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

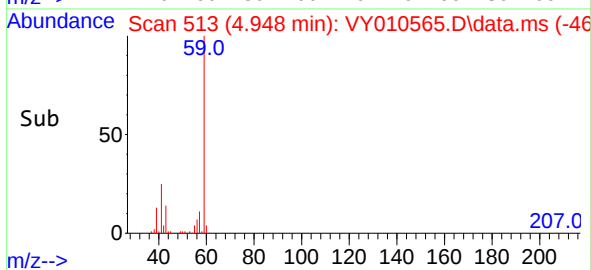
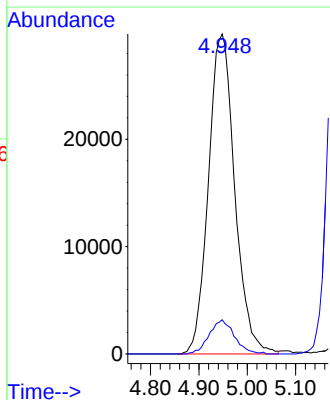
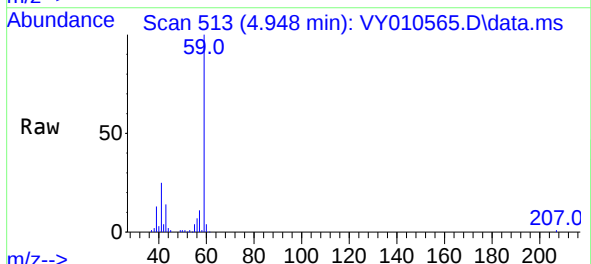
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

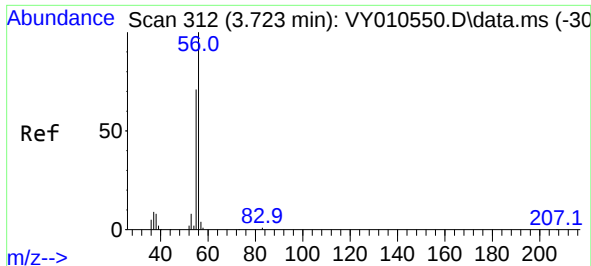
Tgt Ion: 94 Resp: 470
Ion Ratio Lower Upper
94 100
96 106.3 73.5 110.3



#11
Tert butyl alcohol
Concen: 718.383 ug/l
RT: 4.948 min Scan# 513
Delta R.T. 0.006 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 59 Resp: 112738
Ion Ratio Lower Upper
59 100
57 10.3 6.4 9.6#

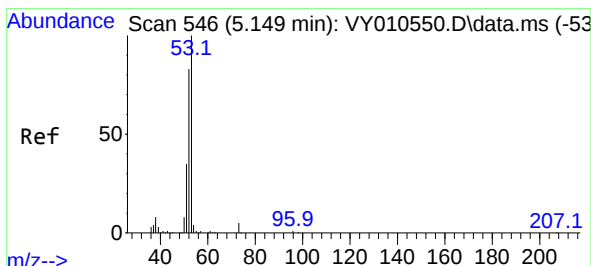
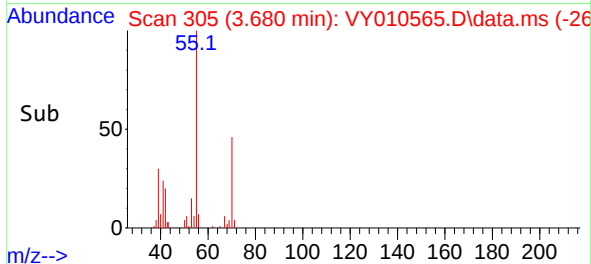
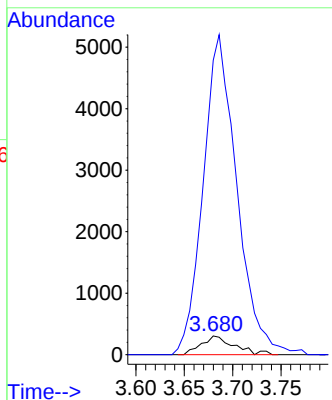
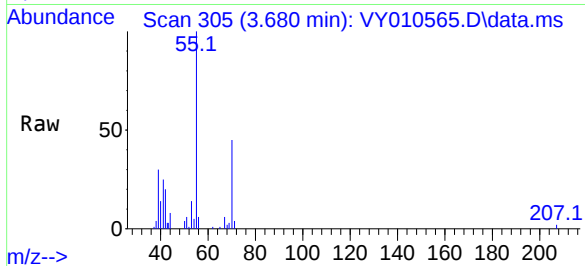




#13
Acrolein
Concen: 8.545 ug/l
RT: 3.680 min Scan# 305
Delta R.T. -0.043 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

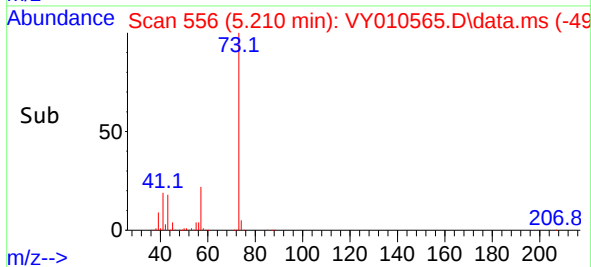
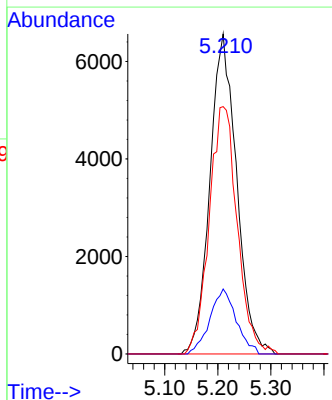
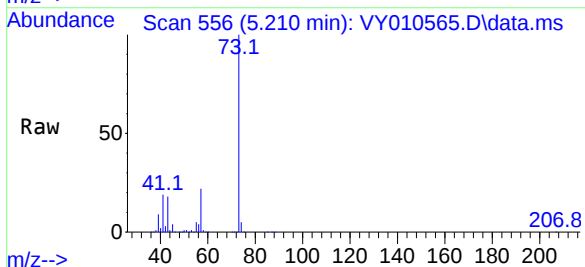
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

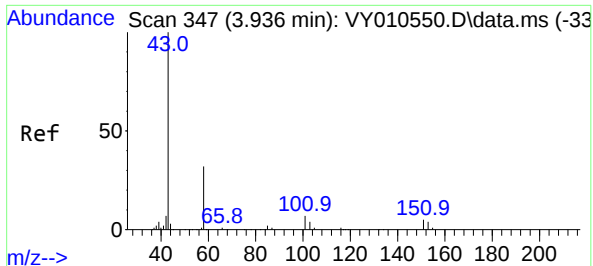
Tgt Ion: 56 Resp: 718
Ion Ratio Lower Upper
56 100
55 1763.5 57.6 86.4#



#15
Acrylonitrile
Concen: 52.004 ug/l
RT: 5.210 min Scan# 556
Delta R.T. 0.061 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 53 Resp: 22965
Ion Ratio Lower Upper
53 100
52 20.0 67.0 100.4#
51 80.9 29.8 44.6#

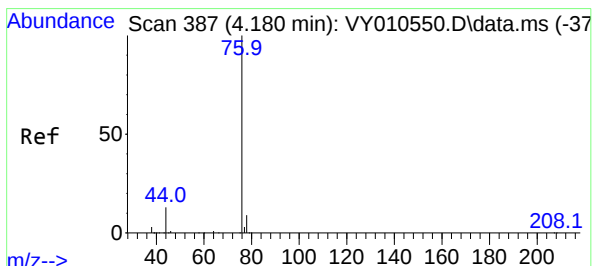
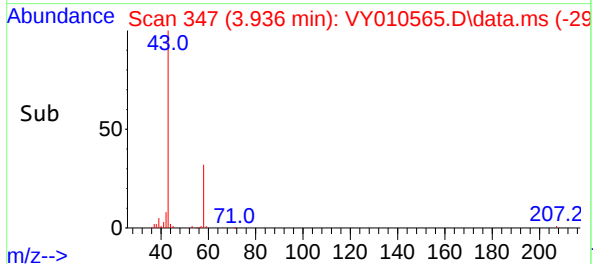
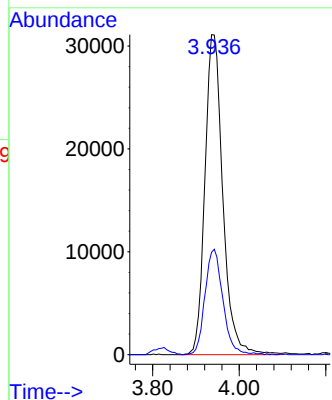
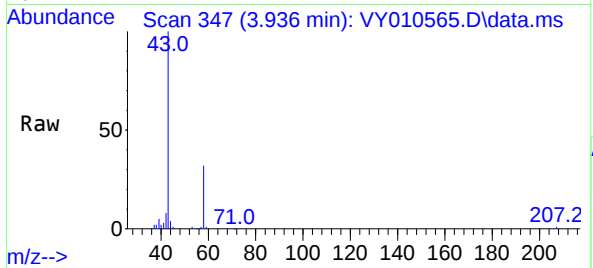




#16
Acetone
Concen: 242.485 ug/l
RT: 3.936 min Scan# 347
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

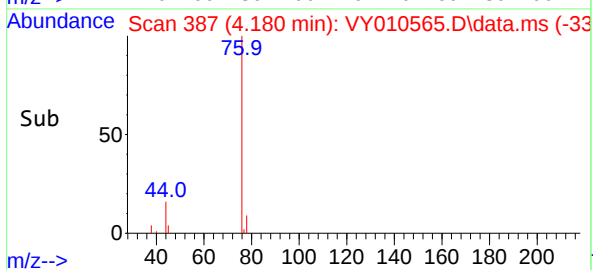
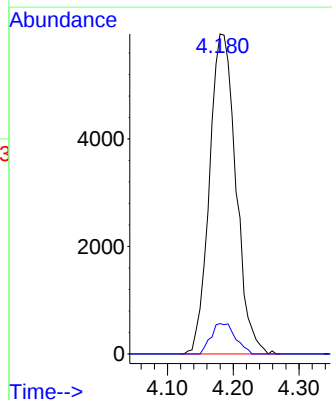
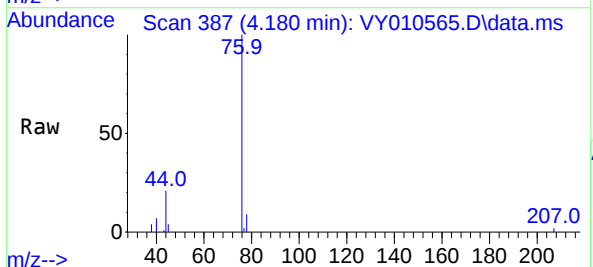
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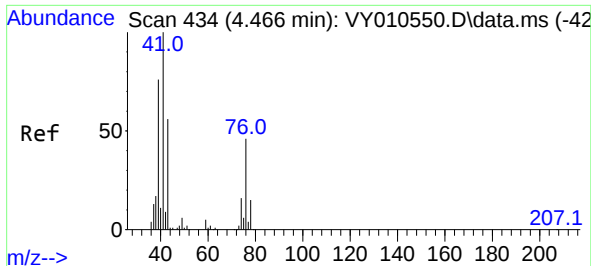
Tgt Ion: 43 Resp: 89322
Ion Ratio Lower Upper
43 100
58 31.8 22.0 33.0



#17
Carbon Disulfide
Concen: 1.840 ug/l
RT: 4.180 min Scan# 387
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 76 Resp: 16680
Ion Ratio Lower Upper
76 100
78 9.5 7.4 11.0

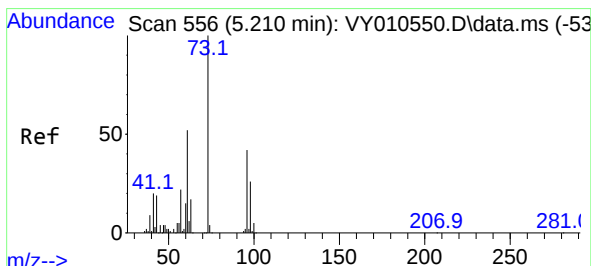
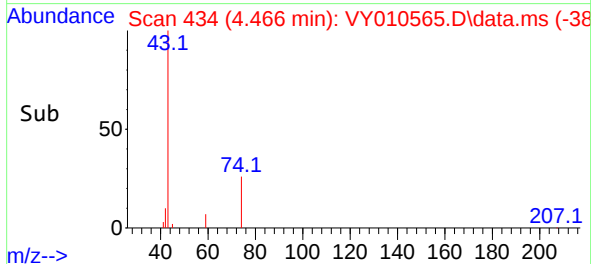
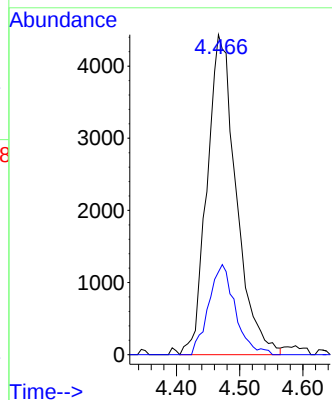
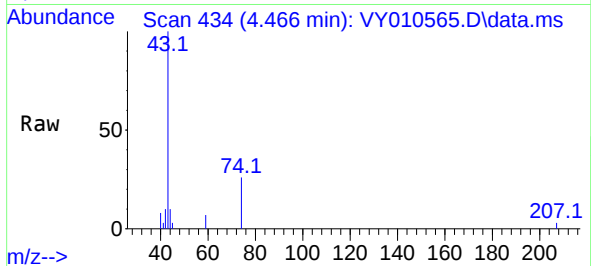




#18
Methyl Acetate
Concen: 12.061 ug/l
RT: 4.466 min Scan# 41
Delta R.T. 0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

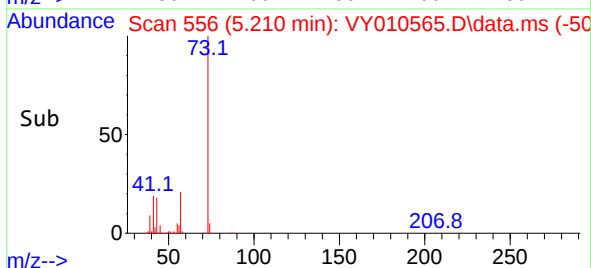
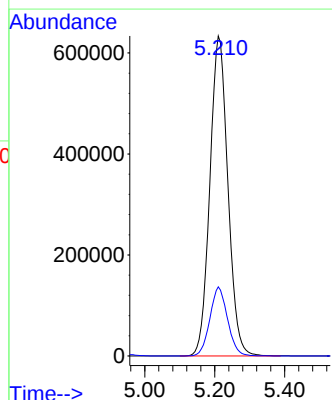
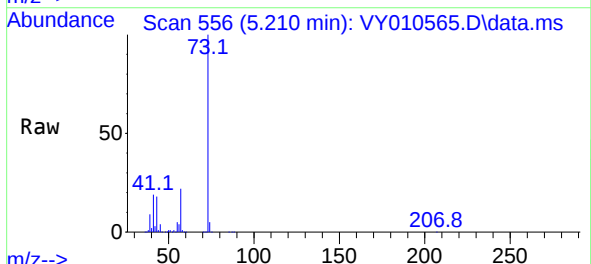
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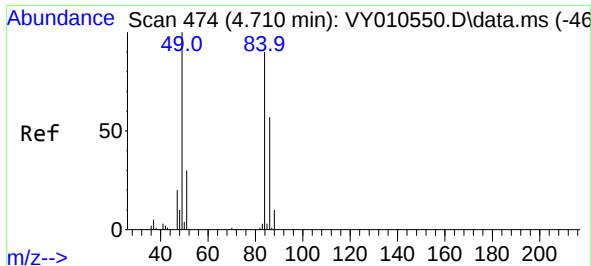
Tgt Ion: 43 Resp: 14200
Ion Ratio Lower Upper
43 100
74 25.7 16.6 24.8#



#19
Methyl tert-butyl Ether
Concen: 544.764 ug/l
RT: 5.210 min Scan# 556
Delta R.T. 0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 73 Resp: 2264949
Ion Ratio Lower Upper
73 100
57 21.6 18.6 27.8

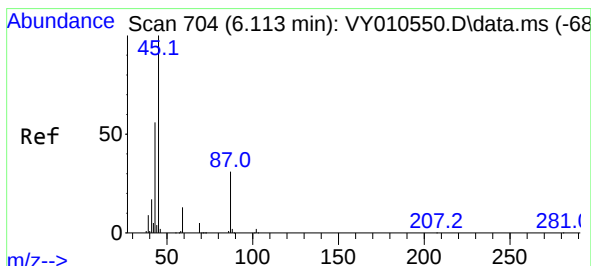
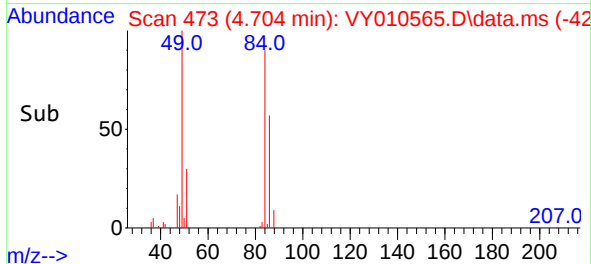
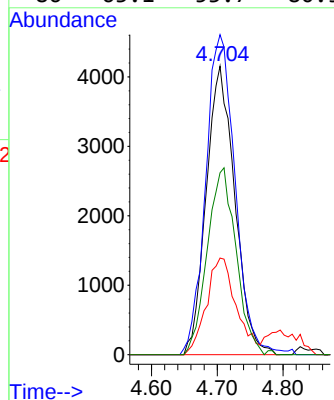
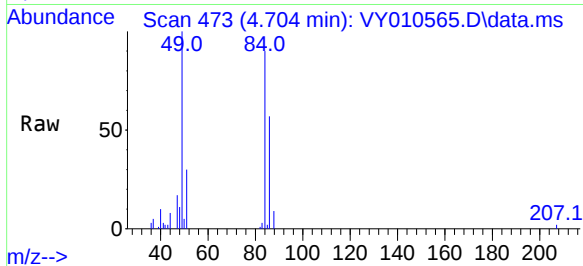




#20
Methylene Chloride
Concen: Below Cal
RT: 4.704 min Scan# 41
Delta R.T. -0.006 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

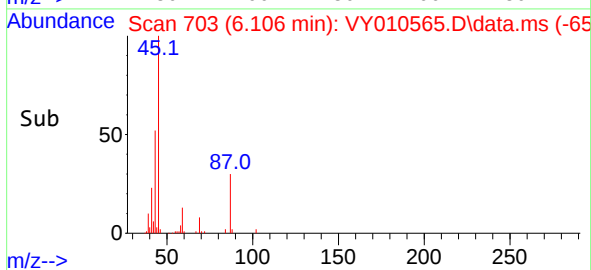
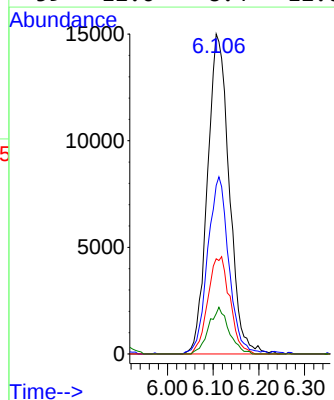
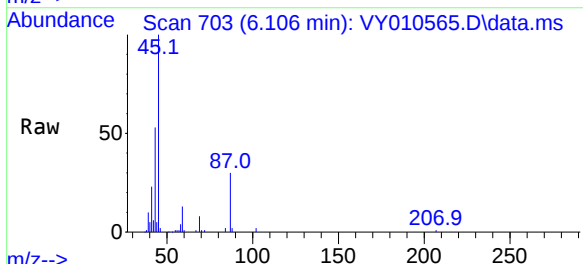
Instrument :
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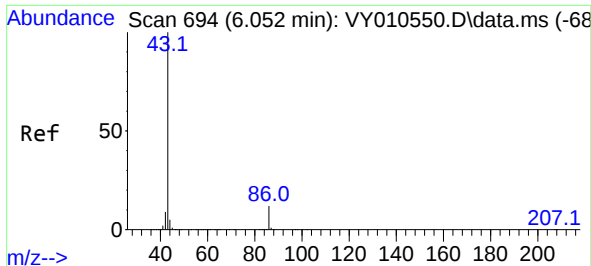
Tgt Ion:	84	Resp:	12571
Ion	Ratio	Lower	Upper
84	100		
49	110.9	114.4	171.6#
51	33.5	35.3	52.9#
86	63.1	53.7	80.5



#22
Diisopropyl ether
Concen: 10.457 ug/l
RT: 6.106 min Scan# 703
Delta R.T. -0.007 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion:	45	Resp:	49628
Ion	Ratio	Lower	Upper
45	100		
43	52.6	49.3	73.9
87	29.8	19.2	28.8#
59	12.6	8.4	12.6

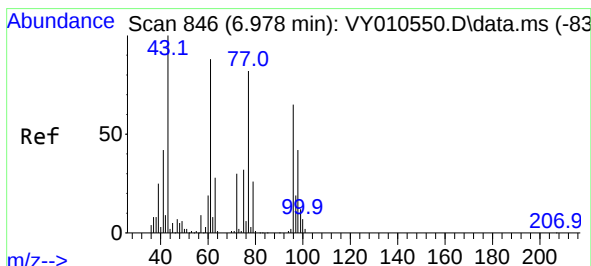
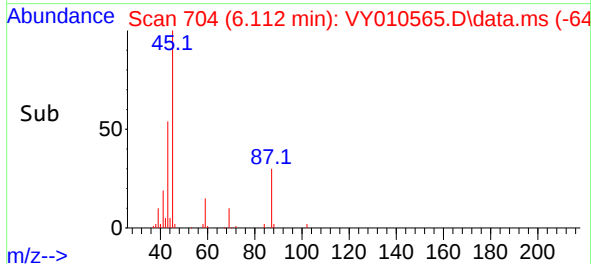
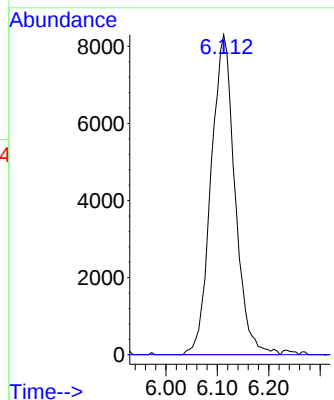
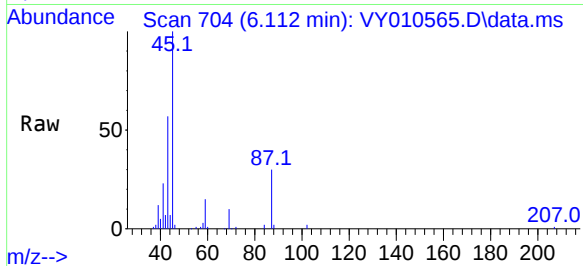




#23
 Vinyl Acetate
 Concen: 9.558 ug/l
 RT: 6.112 min Scan# 704
 Delta R.T. 0.060 min
 Lab File: VY010565.D
 Acq: 19 Sep 2022 20:45

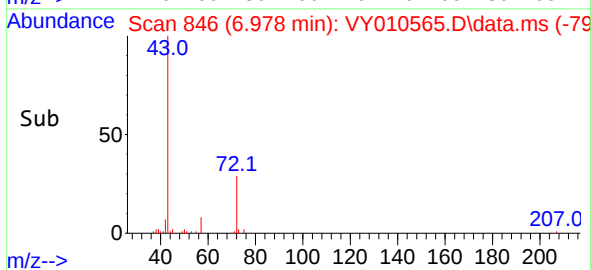
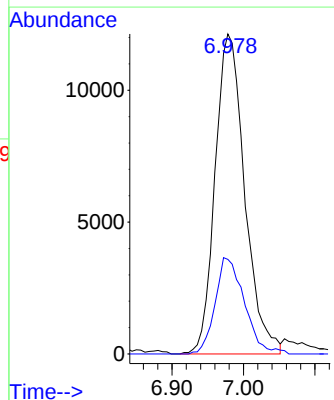
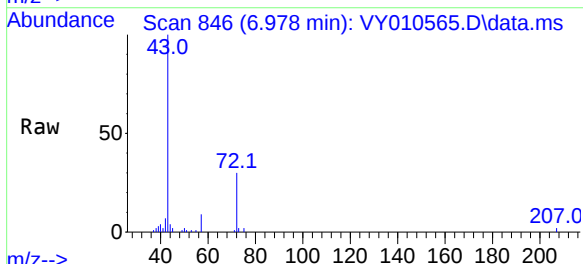
Instrument :
 MSVOA_Y
 ClientSampleId :
 A1-8-17.5

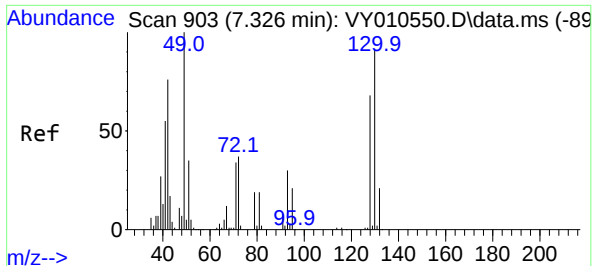
Tgt Ion: 43 Resp: 26798
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.1 10.7#



#25
 2-Butanone
 Concen: 60.531 ug/l
 RT: 6.978 min Scan# 846
 Delta R.T. 0.000 min
 Lab File: VY010565.D
 Acq: 19 Sep 2022 20:45

Tgt Ion: 43 Resp: 34876
 Ion Ratio Lower Upper
 43 100
 72 29.5 17.7 26.5#

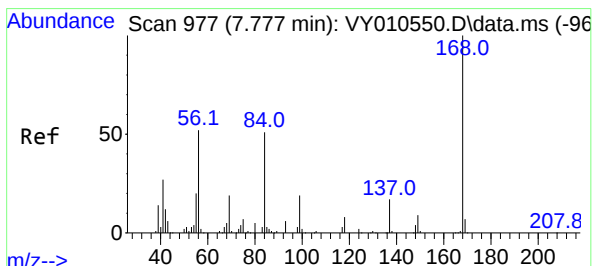
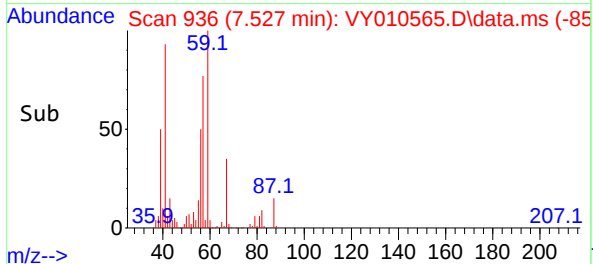
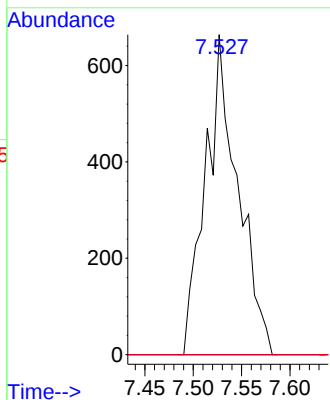
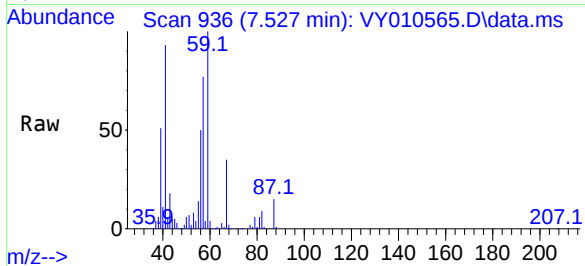




#28
Bromochloromethane
Concen: 6.136 ug/l
RT: 7.527 min Scan# 91
Delta R.T. 0.201 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

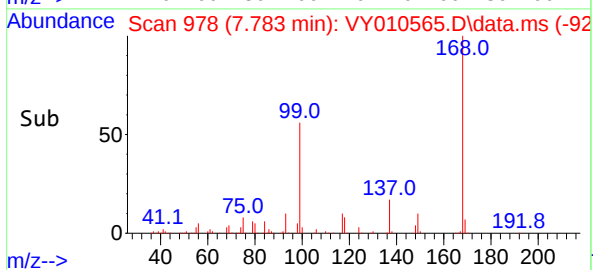
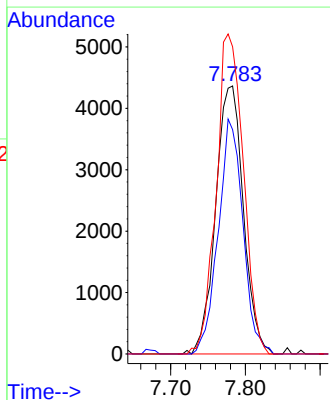
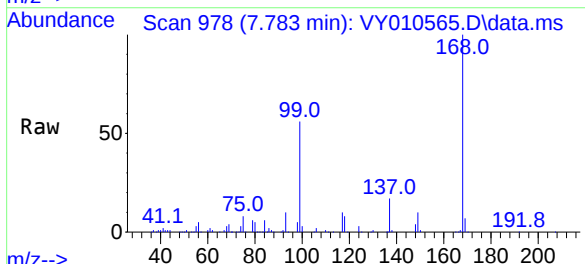
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

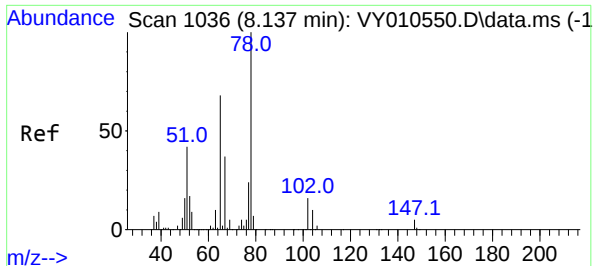
Tgt Ion: 49 Resp: 1546
Ion Ratio Lower Upper
49 100
129 0.0 0.0 2.2
130 0.0 55.4 83.0#



#31
Cyclohexane
Concen: 2.113 ug/l
RT: 7.783 min Scan# 978
Delta R.T. 0.006 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 56 Resp: 11264
Ion Ratio Lower Upper
56 100
69 83.7 26.7 40.1#
84 114.6 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 62.504 ug/l

RT: 8.136 min Scan# 112903

Delta R.T. -0.001 min

Lab File: VY010565.D

Acq: 19 Sep 2022 20:45

Instrument :

MSVOA_Y

ClientSampleId :

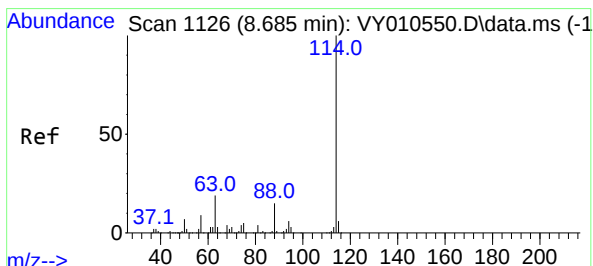
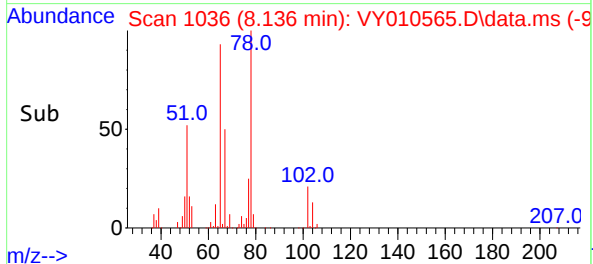
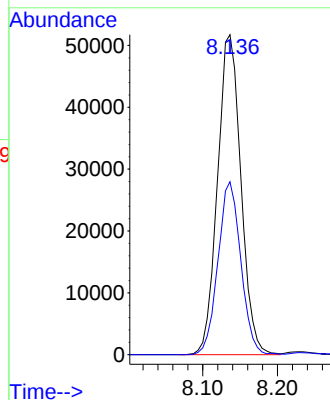
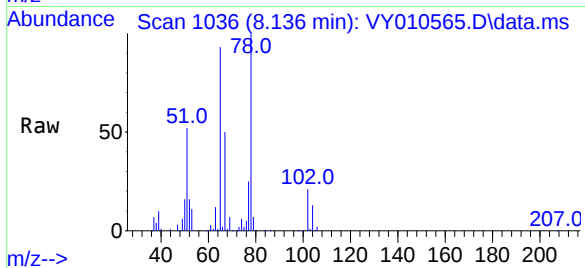
A1-8-17.5

Tgt Ion: 65 Resp: 112903

Ion Ratio Lower Upper

65 100

67 52.7 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: VY010565.D

Acq: 19 Sep 2022 20:45

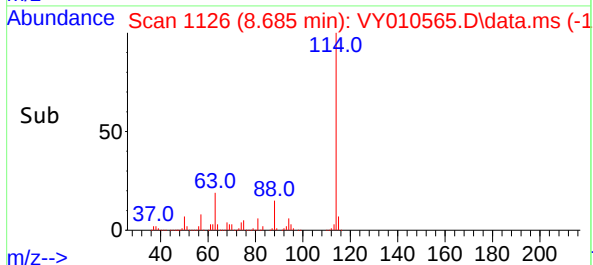
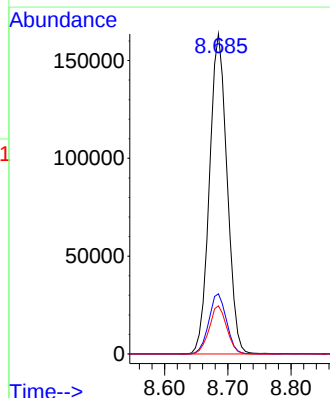
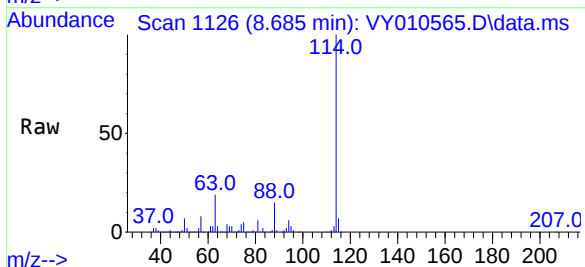
Tgt Ion: 114 Resp: 316462

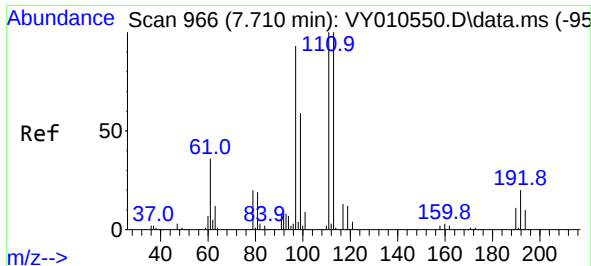
Ion Ratio Lower Upper

114 100

63 18.8 0.0 43.2

88 15.1 0.0 31.8

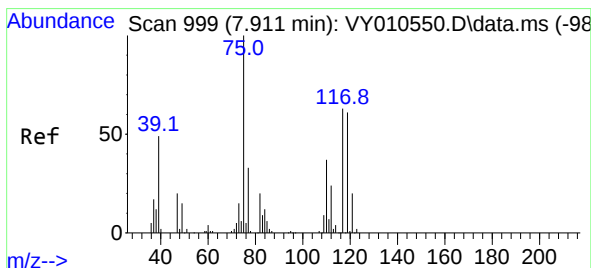
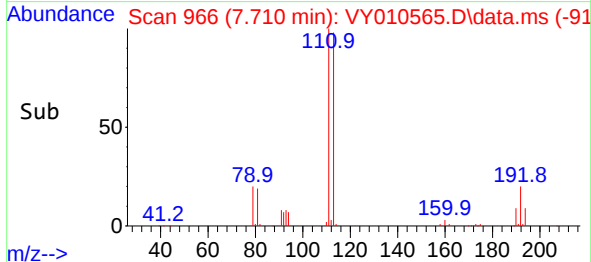
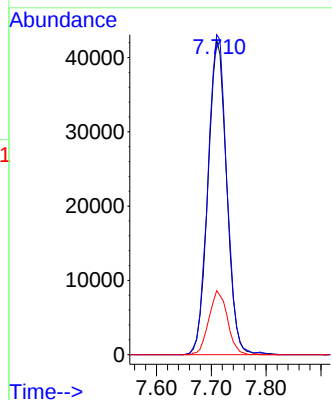
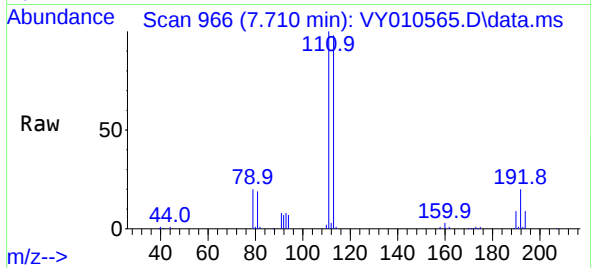




#35
Dibromofluoromethane
Concen: 49.451 ug/l
RT: 7.710 min Scan# 91
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

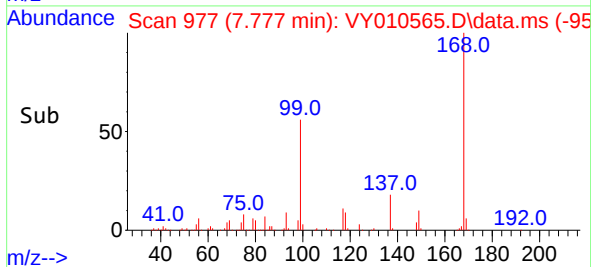
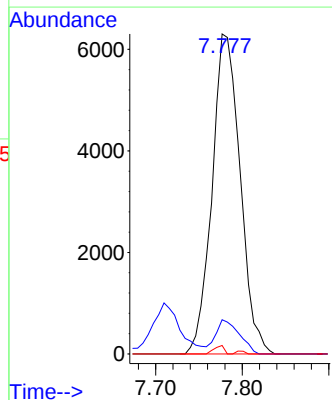
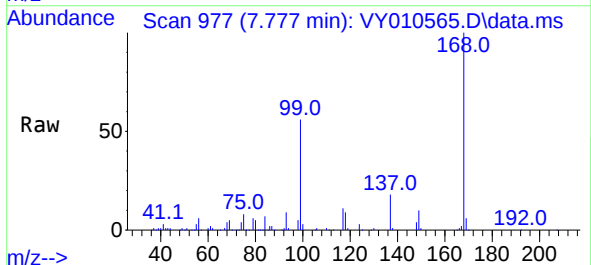
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

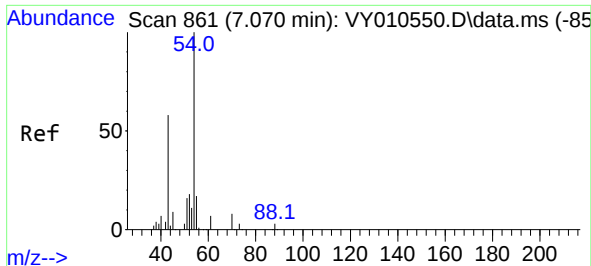
Tgt Ion:	113	Resp:	99875
Ion	Ratio	Lower	Upper
113	100		
111	103.4	82.6	124.0
192	20.2	17.6	26.4



#36
1,1-Dichloropropene
Concen: 6.308 ug/l
RT: 7.777 min Scan# 977
Delta R.T. -0.134 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion:	75	Resp:	14194
Ion	Ratio	Lower	Upper
75	100		
110	9.0	17.1	51.2#
77	0.0	24.4	36.6#





#37

Ethyl Acetate

Concen: 26.832 ug/l

RT: 6.978 min Scan# 84

Delta R.T. -0.092 min

Lab File: VY010565.D

Acq: 19 Sep 2022 20:45

Instrument :

MSVOA_Y

ClientSampleId :

A1-8-17.5

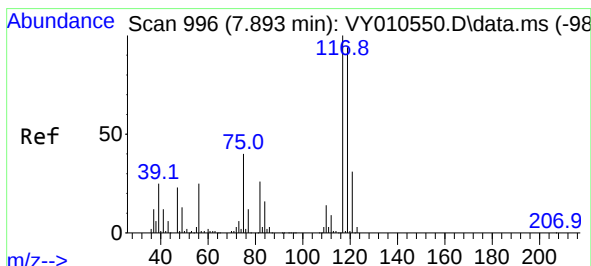
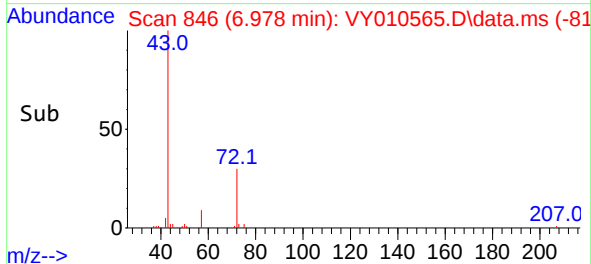
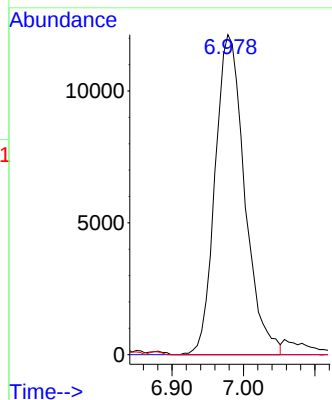
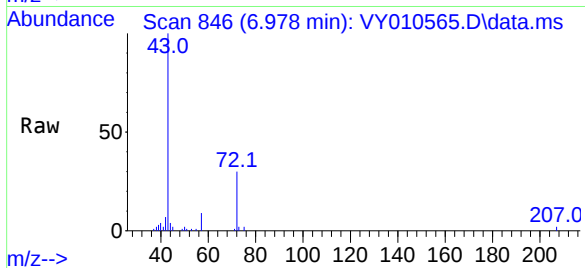
Tgt Ion: 43 Resp: 34876

Ion Ratio Lower Upper

43 100

61 0.0 9.7 14.5#

70 0.0 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 7.197 ug/l

RT: 7.777 min Scan# 977

Delta R.T. -0.116 min

Lab File: VY010565.D

Acq: 19 Sep 2022 20:45

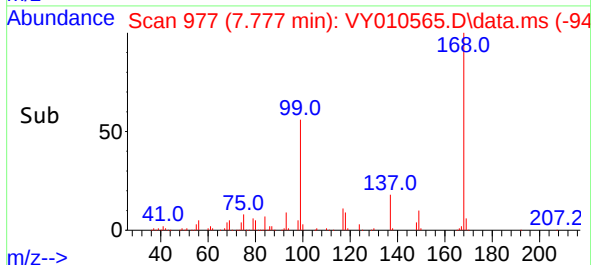
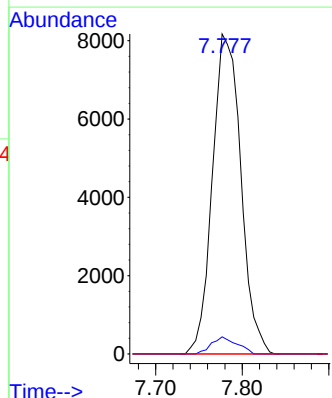
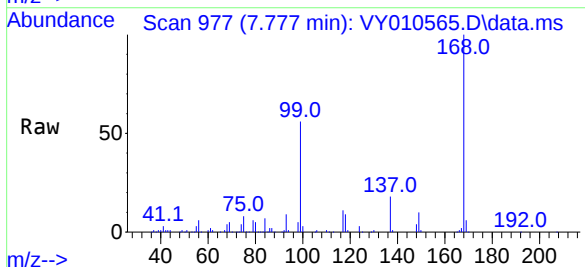
Tgt Ion: 117 Resp: 18622

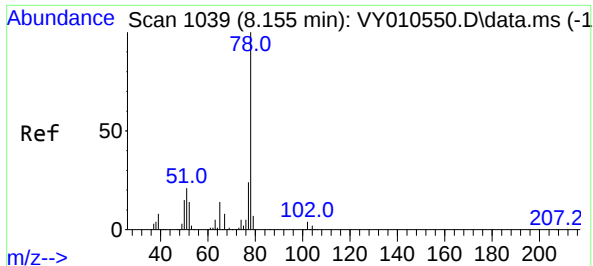
Ion Ratio Lower Upper

117 100

119 5.4 77.9 116.9#

121 0.0 24.8 37.2#

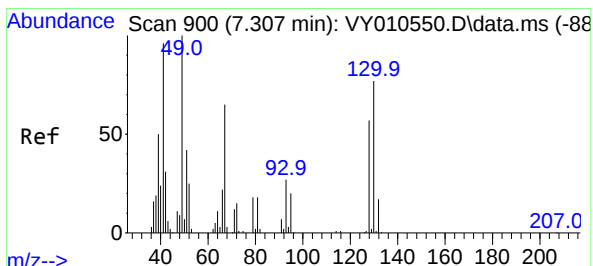
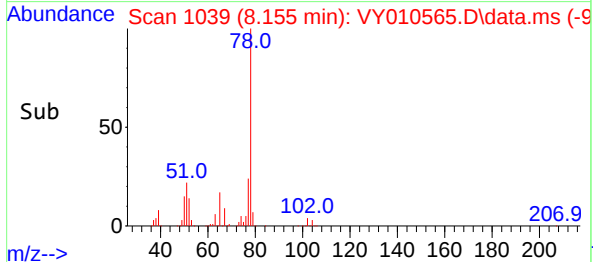
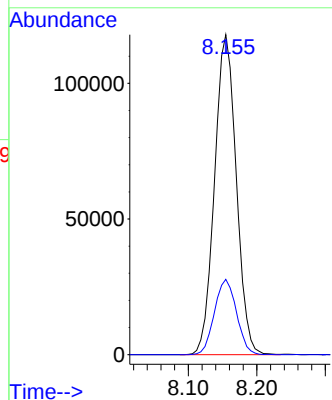
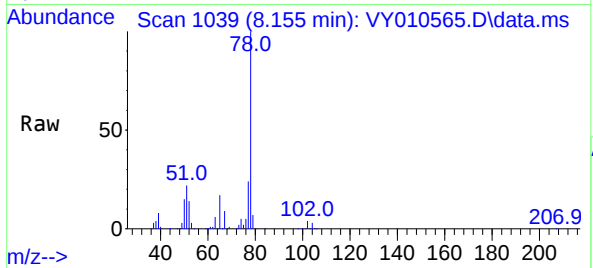




#40
Benzene
Concen: 38.616 ug/l
RT: 8.155 min Scan# 1039
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

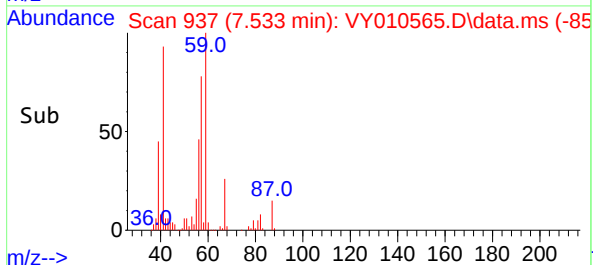
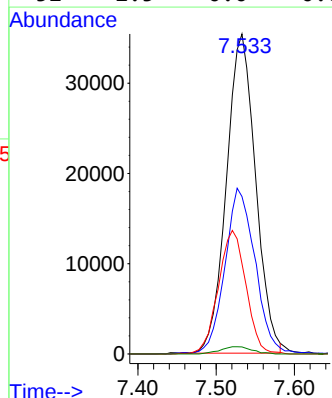
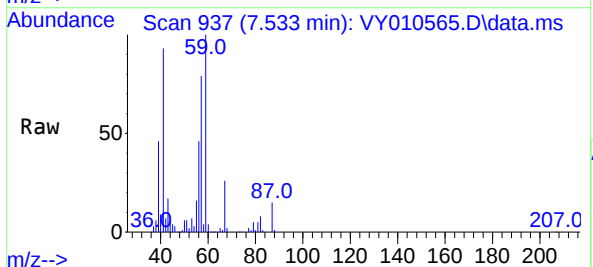
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

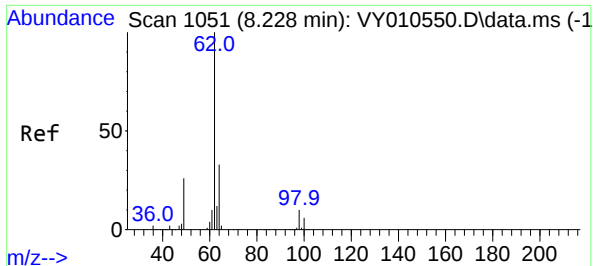
Tgt Ion: 78 Resp: 259059
Ion Ratio Lower Upper
78 100
77 23.5 20.4 30.6



#41
Methacrylonitrile
Concen: 138.030 ug/l
RT: 7.533 min Scan# 937
Delta R.T. 0.226 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 41 Resp: 91509
Ion Ratio Lower Upper
41 100
39 53.4 92.9 139.3#
67 36.7 0.0 0.0#
52 2.5 0.0 0.0#





#42

1,2-Dichloroethane

Concen: 8.103 ug/l

RT: 8.234 min Scan# 1052

Delta R.T. 0.006 min

Lab File: VY010565.D

Acq: 19 Sep 2022 20:45

Instrument :

MSVOA_Y

ClientSampleId :

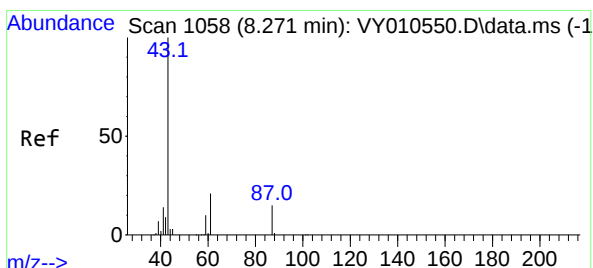
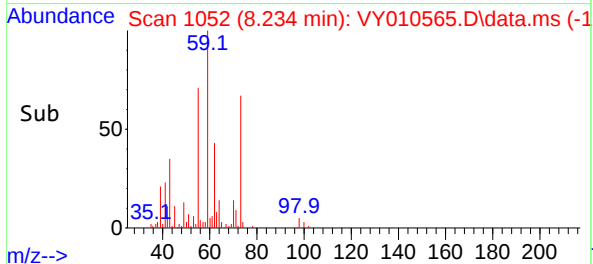
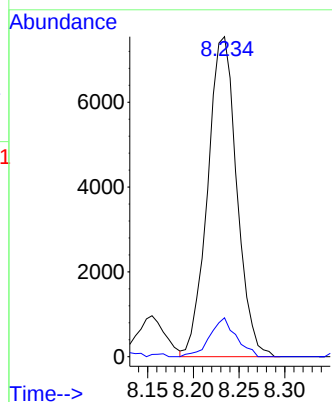
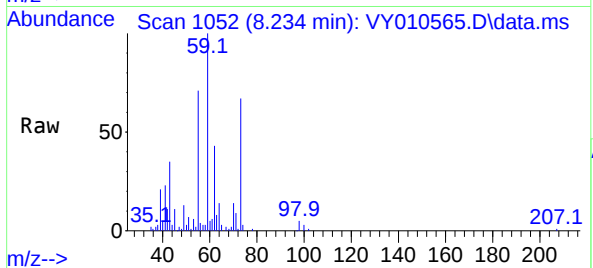
A1-8-17.5

Tgt Ion: 62 Resp: 16739

Ion Ratio Lower Upper

62 100

98 10.9 0.0 14.8



#43

Isopropyl Acetate

Concen: 9.113 ug/l

RT: 8.240 min Scan# 1053

Delta R.T. -0.031 min

Lab File: VY010565.D

Acq: 19 Sep 2022 20:45

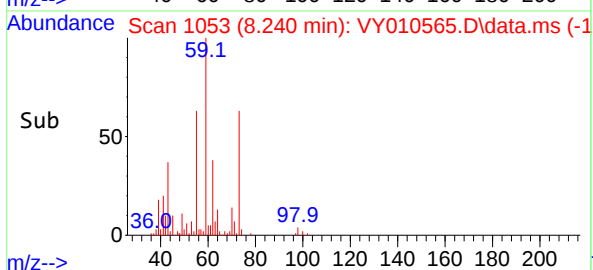
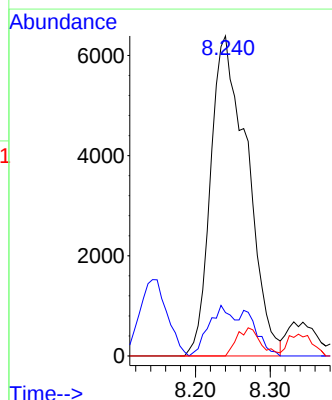
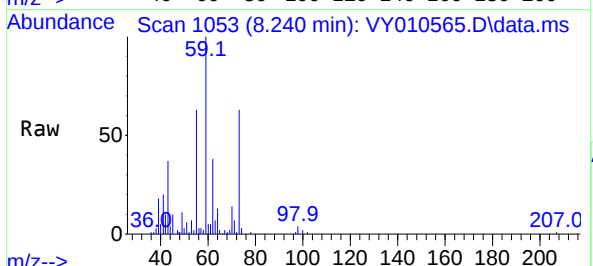
Tgt Ion: 43 Resp: 21713

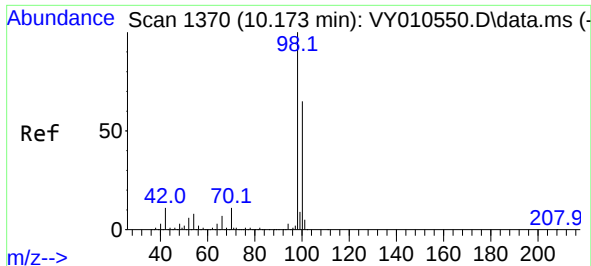
Ion Ratio Lower Upper

43 100

61 10.3 20.2 30.2#

87 0.0 8.9 13.3#

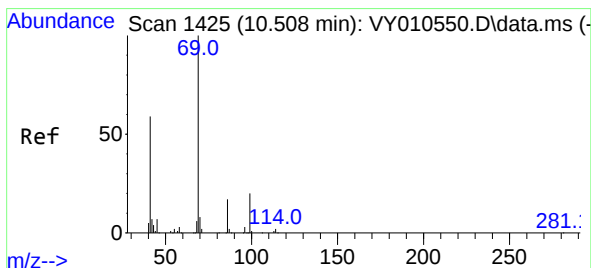
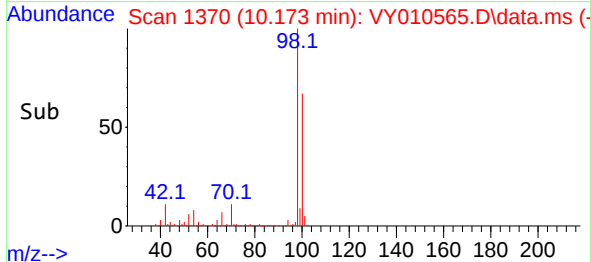
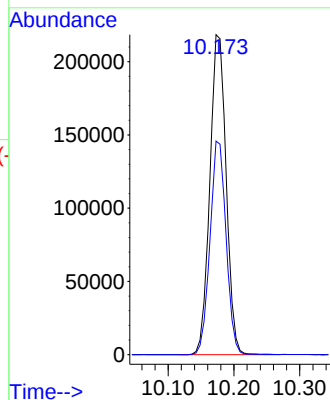
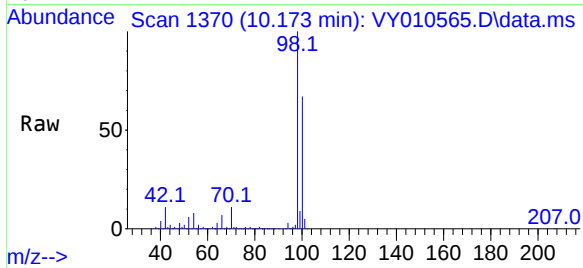




#50
Toluene-d8
Concen: 50.521 ug/l
RT: 10.173 min Scan# 11
Delta R.T. -0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

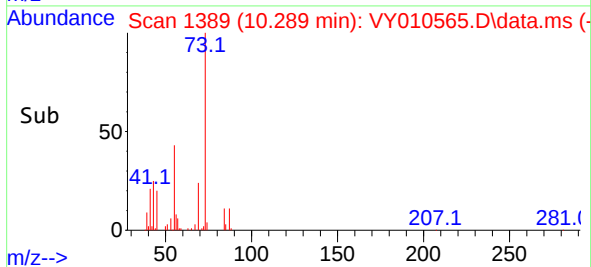
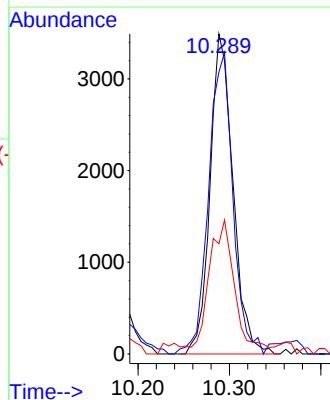
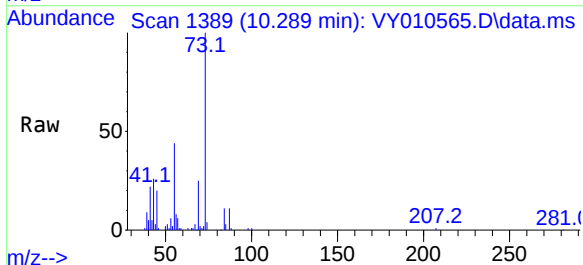
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

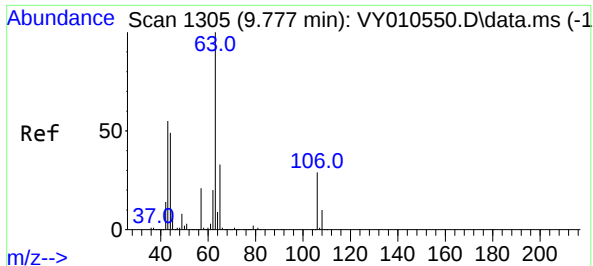
Tgt Ion: 98 Resp: 377356
Ion Ratio Lower Upper
98 100
100 65.8 50.2 75.2



#56
Ethyl methacrylate
Concen: 3.126 ug/l
RT: 10.289 min Scan# 1389
Delta R.T. -0.219 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 69 Resp: 6071
Ion Ratio Lower Upper
69 100
41 100.0 63.4 95.0#
39 46.8 35.8 53.8

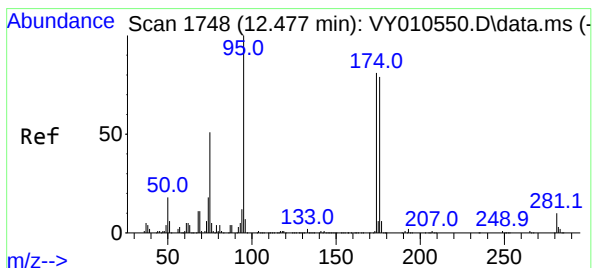
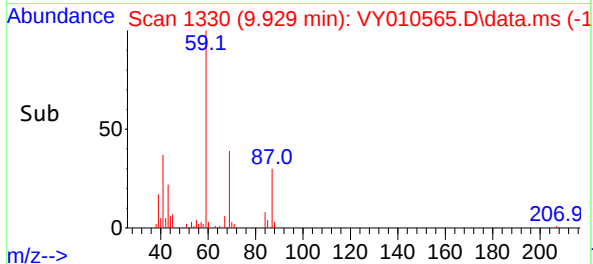
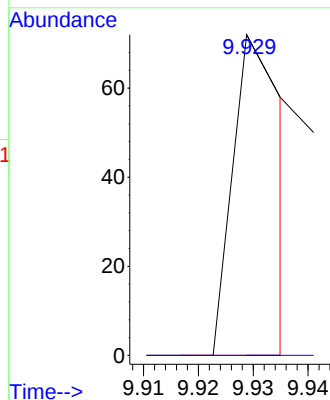
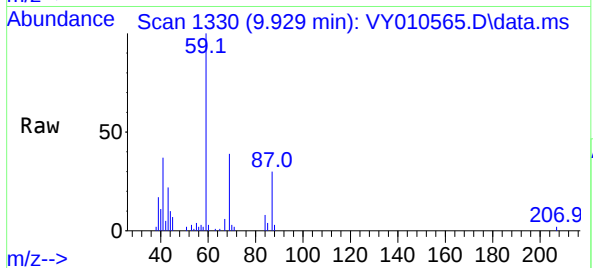




#58
2-Chloroethyl Vinyl ether
Concen: 20.517 ug/l
RT: 9.929 min Scan# 11
Delta R.T. 0.152 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

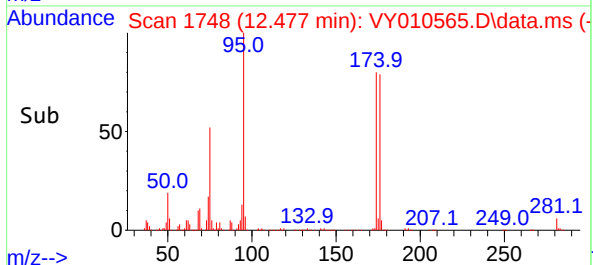
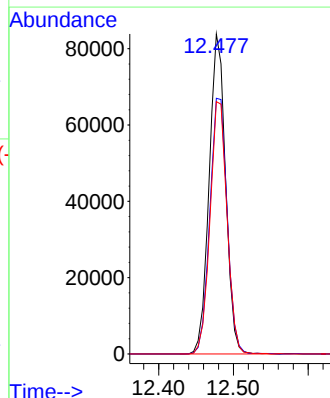
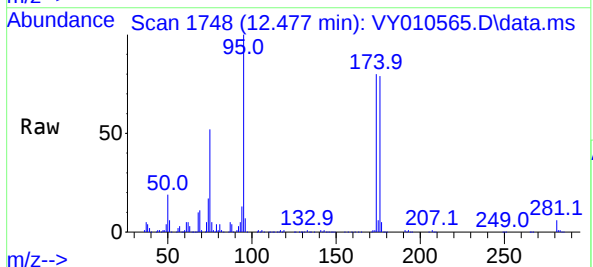
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

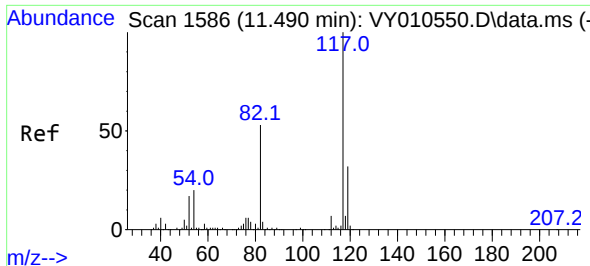
Tgt Ion: 63 Resp: 48
Ion Ratio Lower Upper
63 100
106 0.0 21.5 32.3#



#62
4-Bromofluorobenzene
Concen: 45.881 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 95 Resp: 127715
Ion Ratio Lower Upper
95 100
174 84.5 0.0 177.0
176 81.8 0.0 175.8

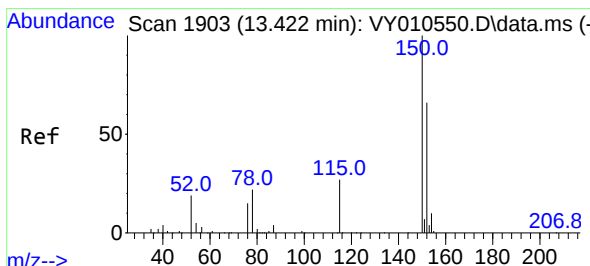
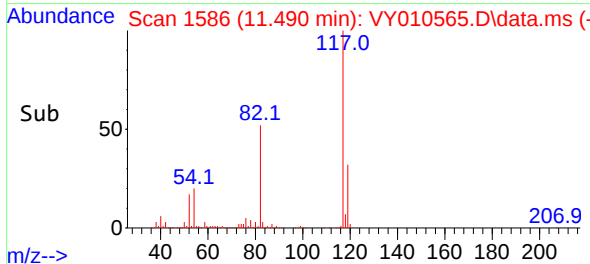
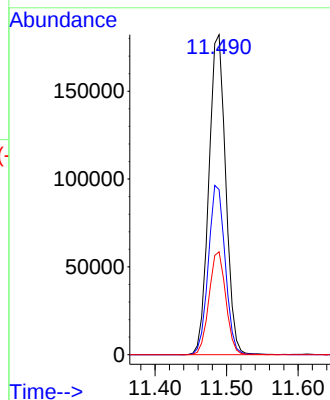
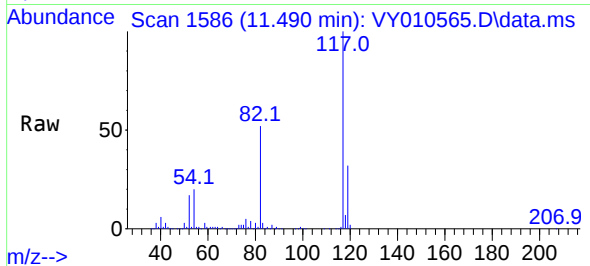




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.490 min Scan# 11
Delta R.T. -0.001 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

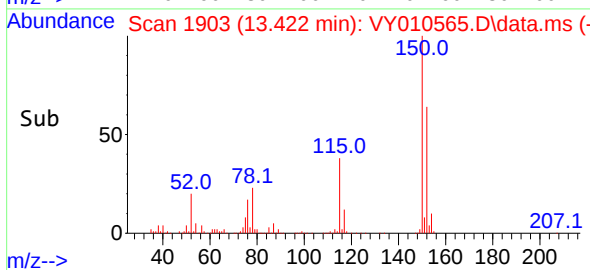
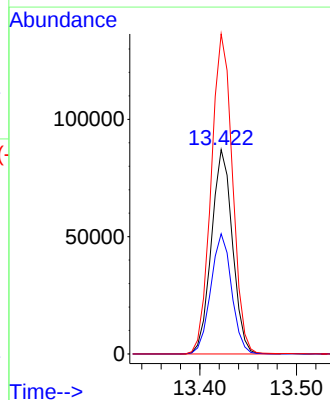
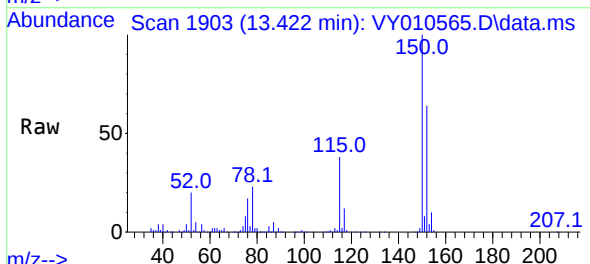
Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

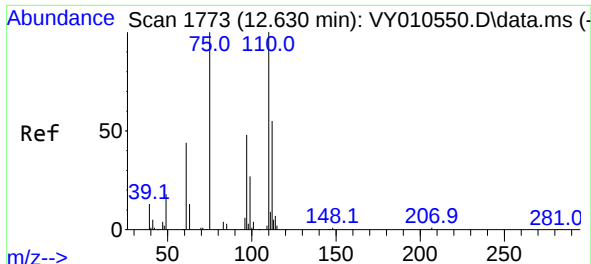
Tgt Ion:	117	Resp:	298456
Ion	Ratio	Lower	Upper
117	100		
82	51.6	43.0	64.4
119	32.2	25.4	38.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.422 min Scan# 1903
Delta R.T. 0.000 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion:	152	Resp:	131688
Ion	Ratio	Lower	Upper
152	100		
115	58.2	28.2	84.7
150	158.7	0.0	347.6

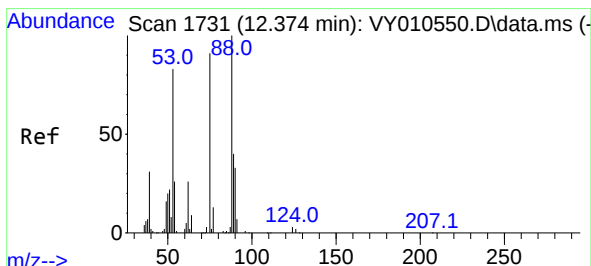
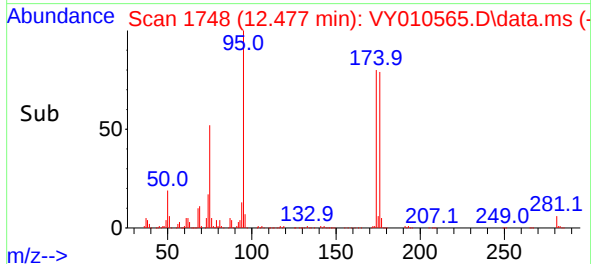
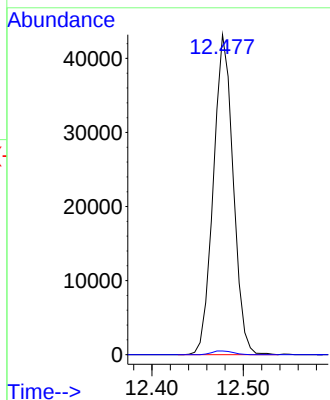
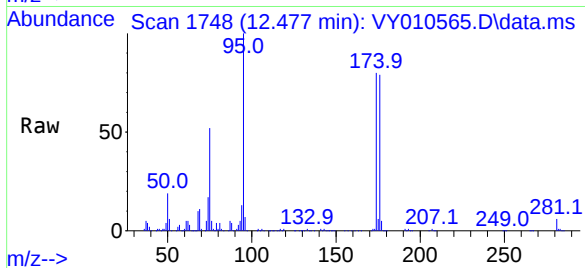




#76
1,2,3-Trichloropropane
Concen: 51.825 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. -0.153 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Instrument :
MSVOA_Y
ClientSampleId :
A1-8-17.5

Tgt Ion: 75 Resp: 65137
Ion Ratio Lower Upper
75 100
77 1.2 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 115.229 ug/l
RT: 12.477 min Scan# 1748
Delta R.T. 0.103 min
Lab File: VY010565.D
Acq: 19 Sep 2022 20:45

Tgt Ion: 75 Resp: 65137
Ion Ratio Lower Upper
75 100
53 0.0 85.3 127.9#
89 0.1 37.0 55.4#

