

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092324\
 Data File : VY019664.D
 Acq On : 23 Sep 2024 13:41
 Operator : SY/MD
 Sample : P4138-03
 Misc : 4.70g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 8 Sample Multiplier: 1

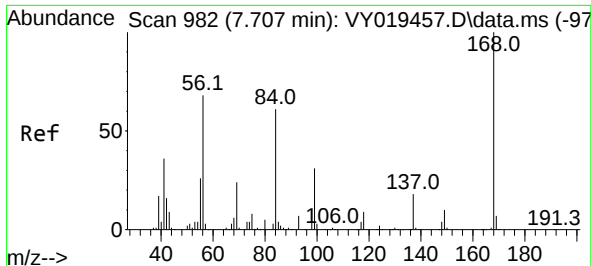
Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 24 01:45:19 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090924S.M
 Quant Title : SW846 8260
 QLast Update : Mon Sep 09 16:00:30 2024
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	9362	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.609	114	13376	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	4475	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.353	152	675	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	2977	34.341	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	68.680%
35) Dibromofluoromethane	7.628	113	3073	40.520	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	81.040%
50) Toluene-d8	10.103	98	12912	46.030	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	92.060%
62) 4-Bromofluorobenzene	12.401	95	937	8.687	ug/l	0.00
Spiked Amount	50.000	Range	29 - 146	Recovery	=	17.380%#
Target Compounds						
					Qvalue	
5) Bromomethane	2.611	94	97	1.885	ug/l	# 3
11) Tert butyl alcohol	4.799	59	19	2.714	ug/l	# 88
13) Acrolein	3.623	56	53	1.481	ug/l	# 15
15) Acrylonitrile	5.019	53	23	1.138	ug/l	# 18
16) Acetone	3.879	43	244	11.814	ug/l	# 36
25) 2-Butanone	6.884	43	57	1.941	ug/l	# 41
29) Tetrahydrofuran	7.244	42	48	2.688	ug/l	# 26
31) Cyclohexane	7.701	56	203	1.308	ug/l	# 30
36) 1,1-Dichloropropene	7.701	75	846	8.198	ug/l	# 40
38) Carbon Tetrachloride	7.707	117	1012	8.696	ug/l	# 13
41) Methacrylonitrile	7.244	41	54	1.752	ug/l	# 15
51) 4-Methyl-2-Pentanone	9.999	43	86	1.539	ug/l	# 31
58) 2-Chloroethyl Vinyl ether	9.445	63	48	1.160	ug/l	# 45
59) 2-Hexanone	10.786	43	63	1.538	ug/l	# 19
68) m/p-Xylenes	11.633	106	88	1.488	ug/l	# 33
74) N-amyl acetate	12.072	43	26	1.952	ug/l	# 37
75) 1,1,2,2-Tetrachloroethane	12.432	83	19	2.186	ug/l	# 26
76) 1,2,3-Trichloropropane	12.408	75	542	85.669	ug/l	# 100
77) Bromobenzene	12.615	156	64	5.893	ug/l	# 1
79) 2-Chlorotoluene	12.676	91	72	2.129	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	12.408	75	542	164.459	ug/l	# 16
82) 4-Chlorotoluene	12.755	91	63	1.812	ug/l	# 24
84) 1,2,4-Trimethylbenzene	13.042	105	80	2.030	ug/l	# 30
86) p-Isopropyltoluene	13.292	119	92	2.148	ug/l	# 7
87) 1,3-Dichlorobenzene	13.389	146	23	1.090	ug/l	# 25
88) 1,4-Dichlorobenzene	13.389	146	23	1.098	ug/l	# 25
91) 1,2-Dichlorobenzene	13.761	146	20	1.062	ug/l	# 25
92) 1,2-Dibromo-3-Chloropr...	14.480	75	48	33.136	ug/l	# 1
93) 1,2,4-Trichlorobenzene	14.913	180	104	9.080	ug/l	# 26
95) Naphthalene	15.139	128	437	19.052	ug/l	# 69

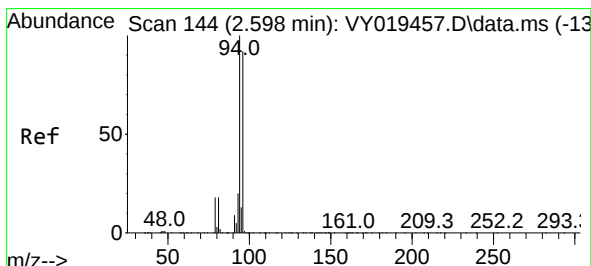
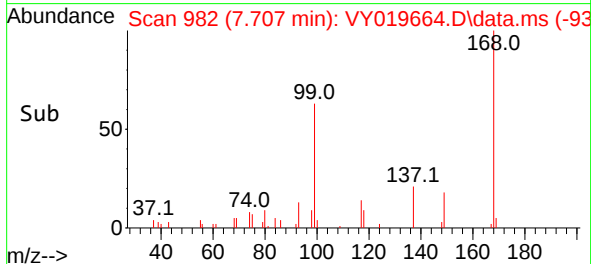
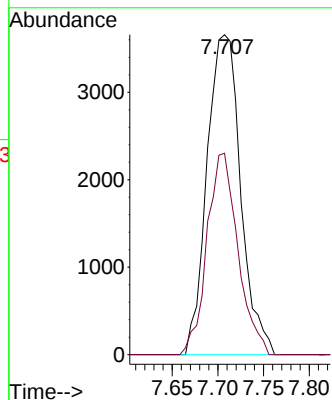
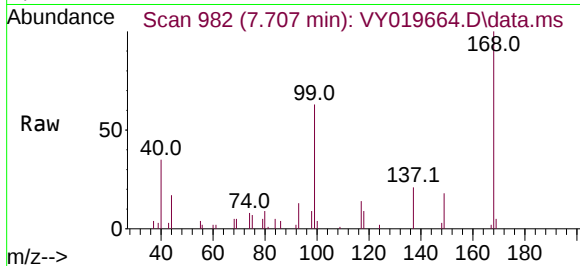
(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

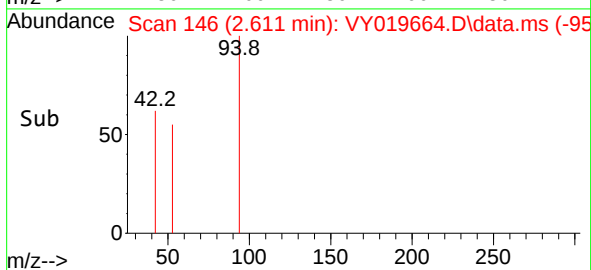
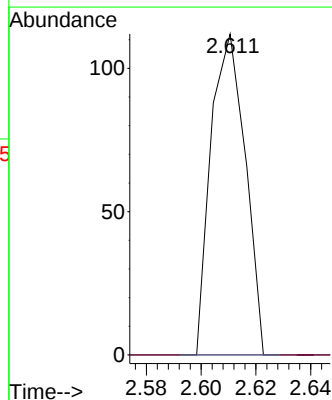
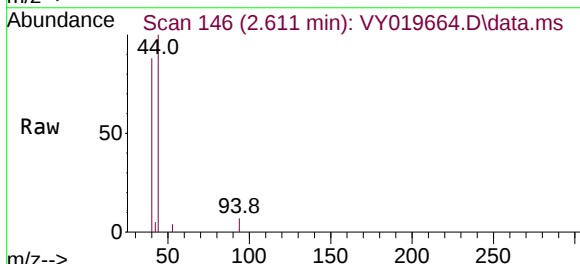
Instrument :
MSVOA_Y
ClientSampleId :

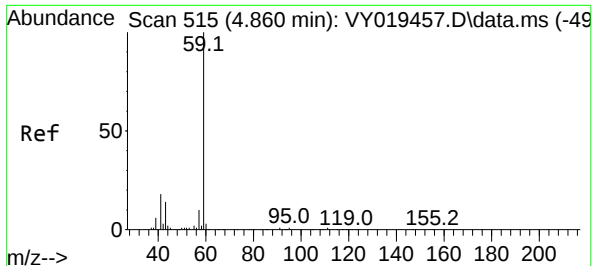
Tgt Ion:168 Resp: 9362
Ion Ratio Lower Upper
168 100
99 62.9 39.1 58.7#



#5
Bromomethane
Concen: 1.885 ug/l
RT: 2.611 min Scan# 146
Delta R.T. 0.012 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

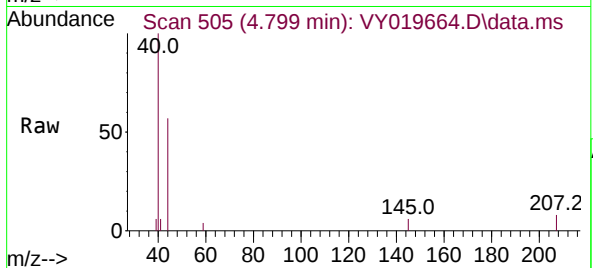
Tgt Ion: 94 Resp: 97
Ion Ratio Lower Upper
94 100
96 0.0 74.1 111.1#



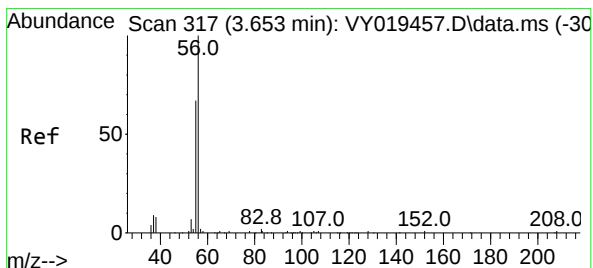
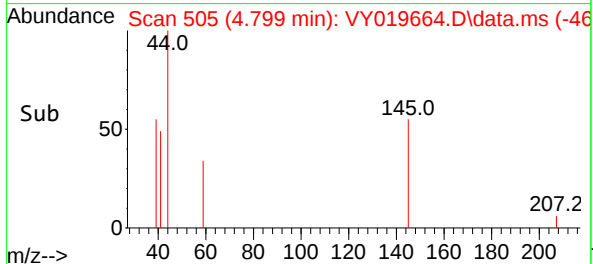
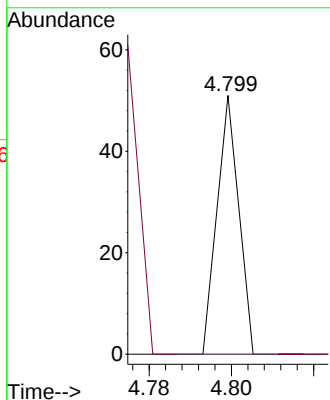


#11
Tert butyl alcohol
Concen: 2.714 ug/l
RT: 4.799 min Scan# 50
Delta R.T. -0.061 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Instrument :
MSVOA_Y
ClientSampleId :

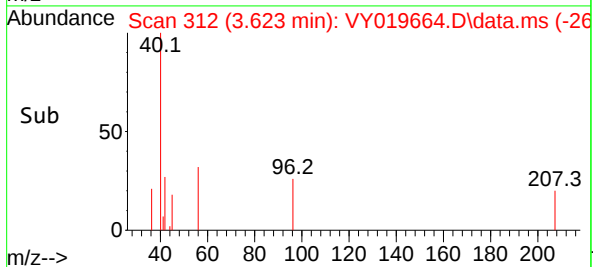
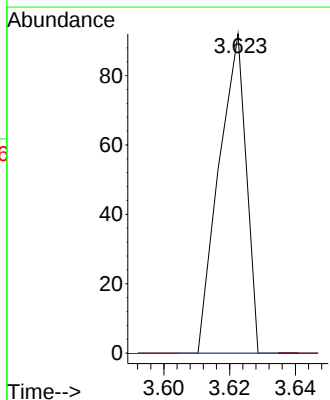
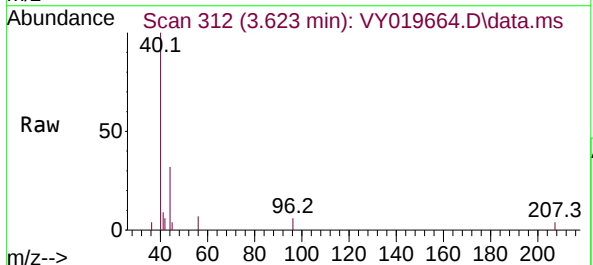


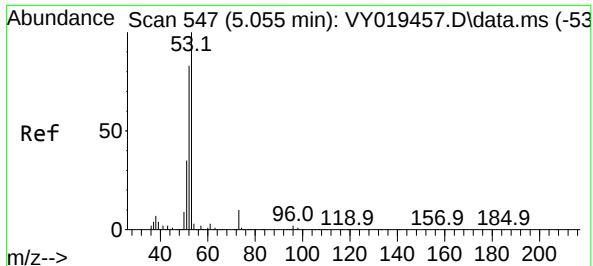
Tgt Ion: 59 Resp: 19
Ion Ratio Lower Upper
59 100
57 0.0 3.0 4.6#



#13
Acrolein
Concen: 1.481 ug/l
RT: 3.623 min Scan# 312
Delta R.T. -0.030 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Tgt Ion: 56 Resp: 53
Ion Ratio Lower Upper
56 100
55 0.0 55.7 83.5#

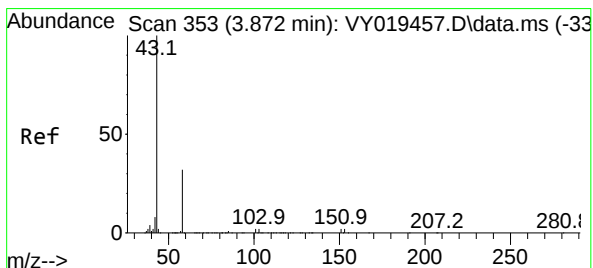
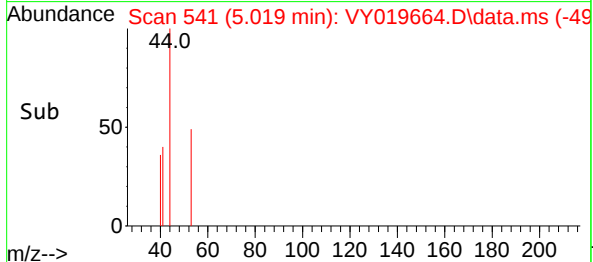
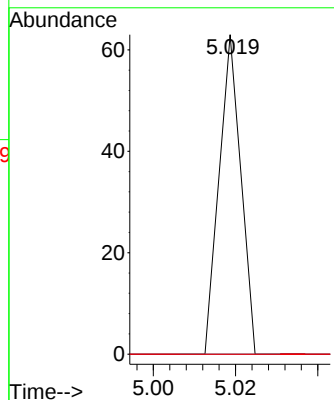
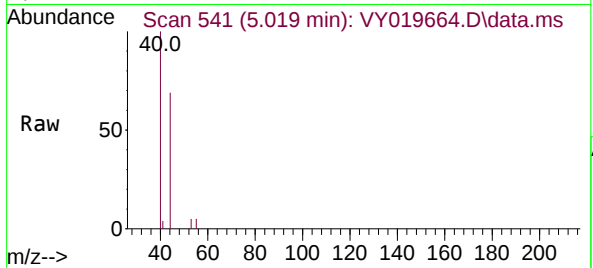




#15
Acrylonitrile
Concen: 1.138 ug/l
RT: 5.019 min Scan# 541
Delta R.T. -0.036 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

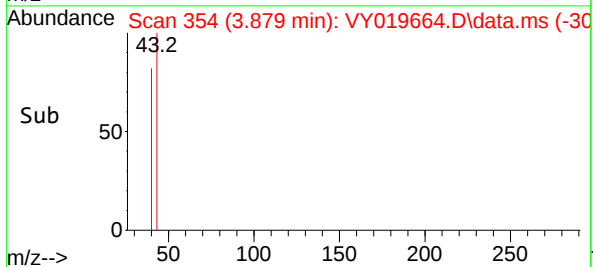
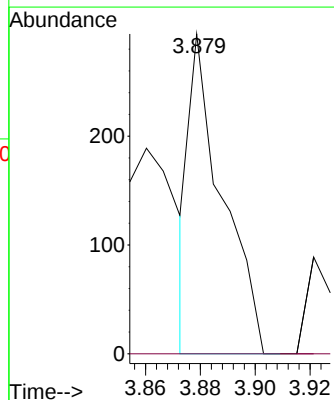
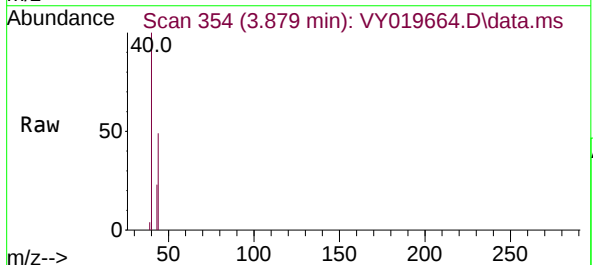
Instrument :
MSVOA_Y
ClientSampleId :

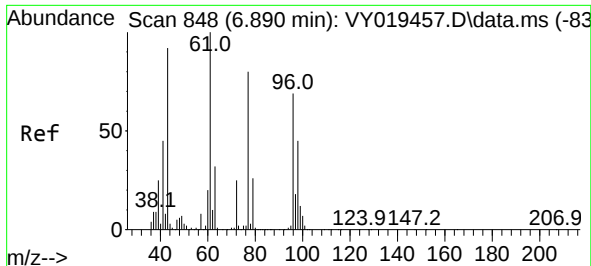
Tgt Ion: 53 Resp: 23
Ion Ratio Lower Upper
53 100
52 0.0 64.7 97.1#
51 0.0 28.4 42.6#



#16
Acetone
Concen: 11.814 ug/l
RT: 3.879 min Scan# 354
Delta R.T. 0.006 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Tgt Ion: 43 Resp: 244
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#





#25

2-Butanone

Concen: 1.941 ug/l

RT: 6.884 min Scan# 84

Delta R.T. -0.006 min

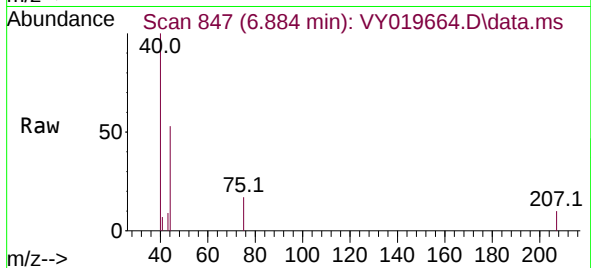
Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

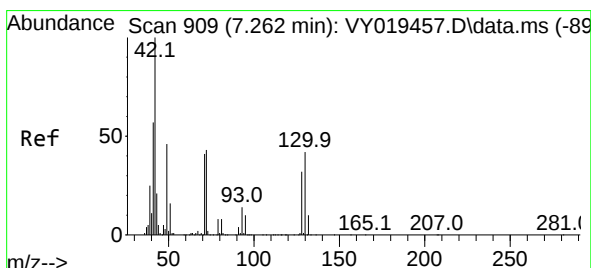
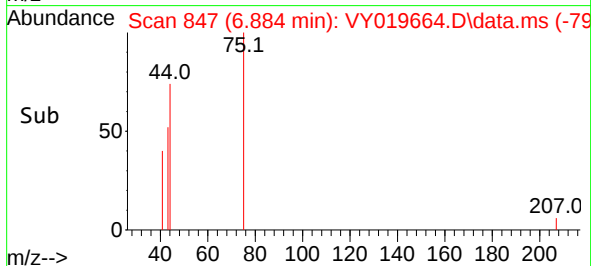
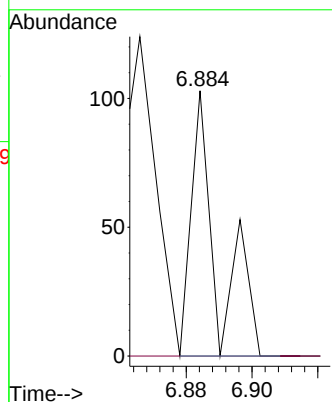


Tgt Ion: 43 Resp: 57

Ion Ratio Lower Upper

43 100

72 0.0 27.3 40.9#



#29

Tetrahydrofuran

Concen: 2.688 ug/l

RT: 7.244 min Scan# 906

Delta R.T. -0.018 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

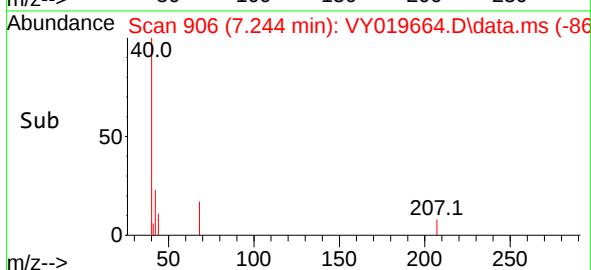
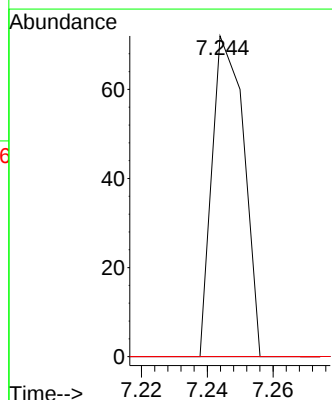
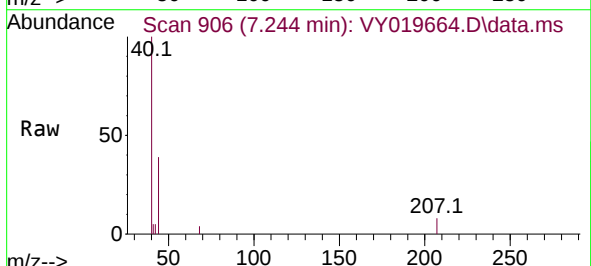
Tgt Ion: 42 Resp: 48

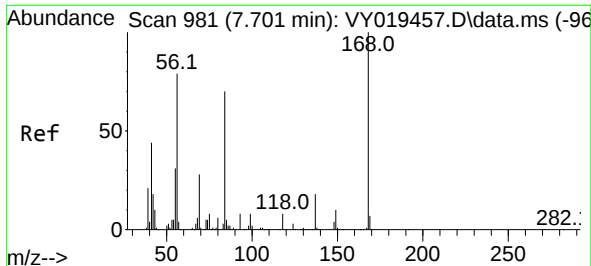
Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

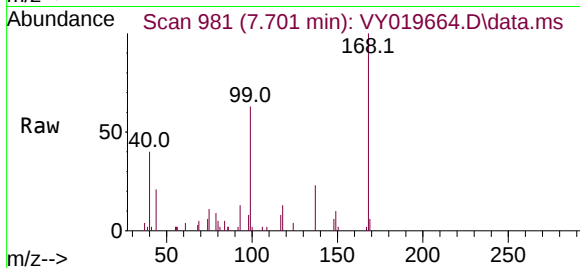
71 0.0 40.8 61.2#



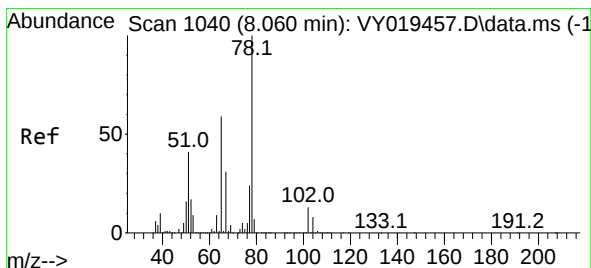
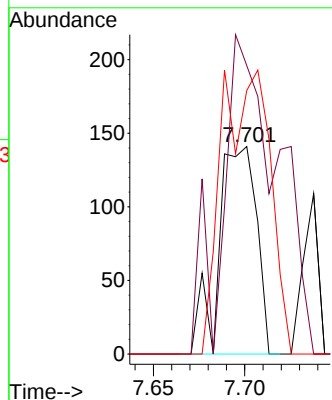
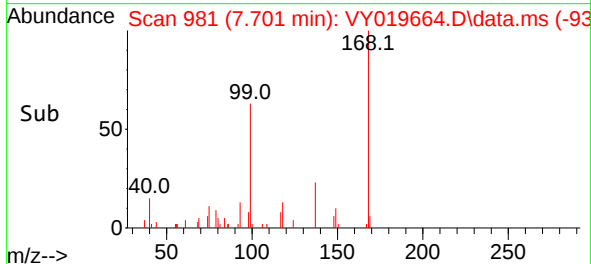


#31
Cyclohexane
Concen: 1.308 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.000 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Instrument :
MSVOA_Y
ClientSampleId :

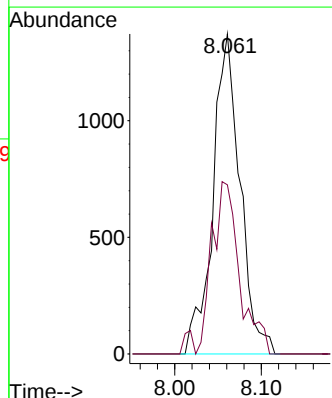
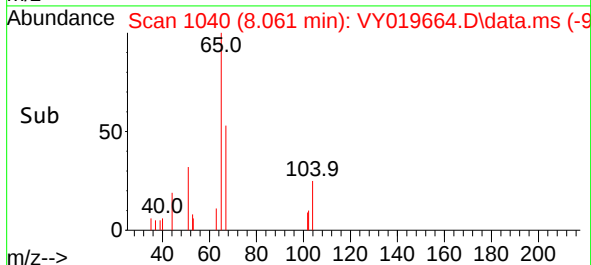
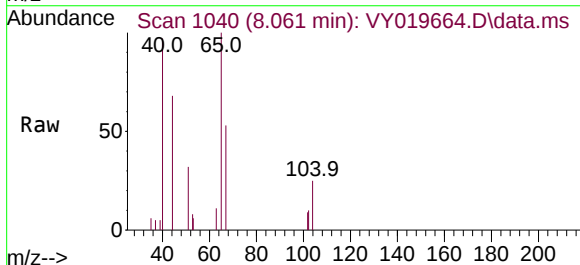


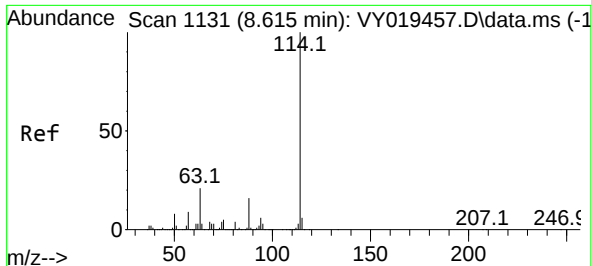
Tgt Ion: 56 Resp: 203
Ion Ratio Lower Upper
56 100
69 139.0 28.7 43.1#
84 127.0 77.7 116.5#



#33
1,2-Dichloroethane-d4
Concen: 34.341 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Tgt Ion: 65 Resp: 2977
Ion Ratio Lower Upper
65 100
67 54.9 0.0 109.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.609 min Scan# 1131

Delta R.T. -0.006 min

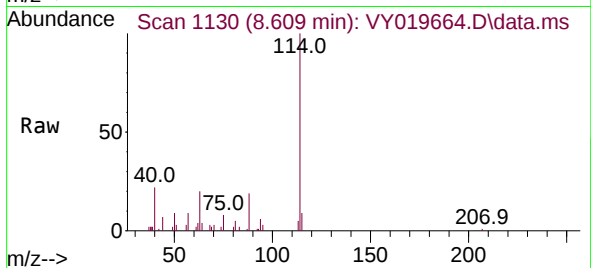
Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :



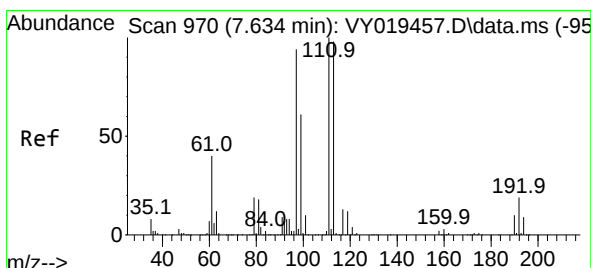
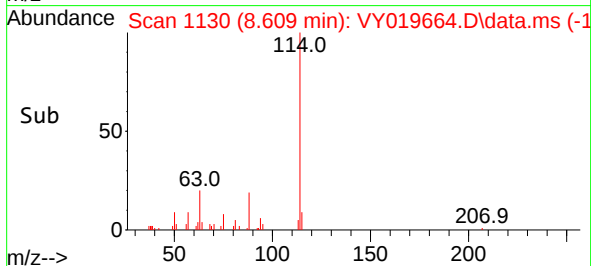
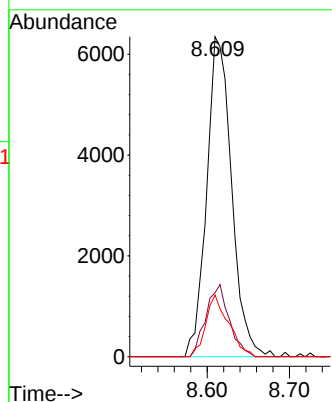
Tgt Ion:114 Resp: 13376

Ion Ratio Lower Upper

114 100

63 20.0 0.0 35.0

88 19.2 0.0 27.2



#35

Dibromofluoromethane

Concen: 40.520 ug/l

RT: 7.628 min Scan# 969

Delta R.T. -0.006 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

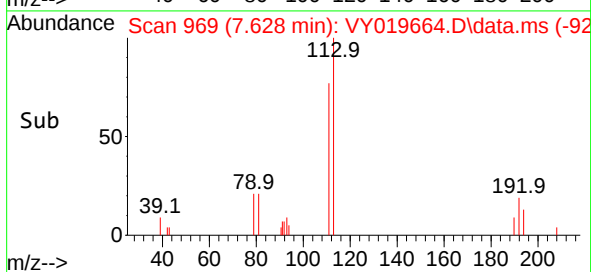
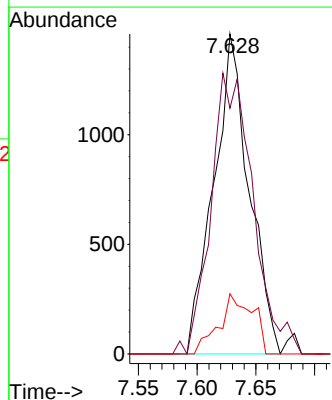
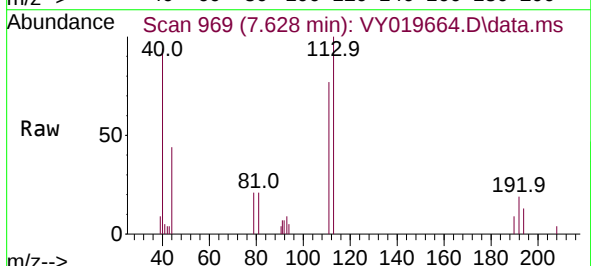
Tgt Ion:113 Resp: 3073

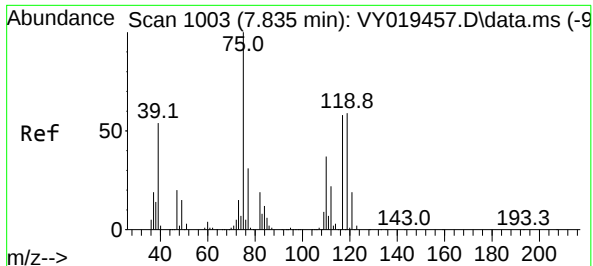
Ion Ratio Lower Upper

113 100

111 104.0 82.2 123.4

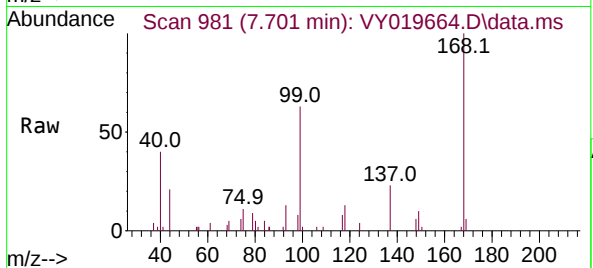
192 17.8 15.9 23.9



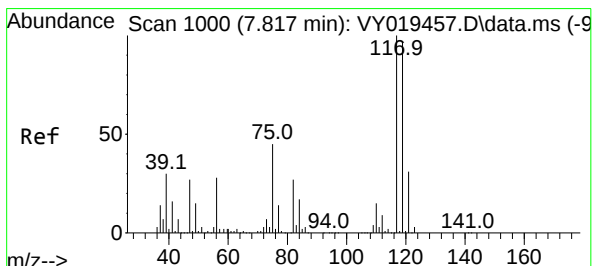
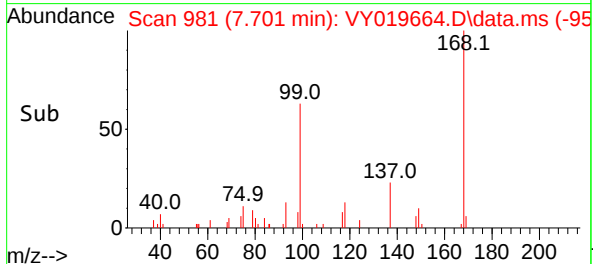
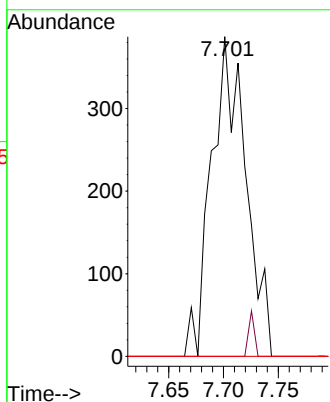


#36
1,1-Dichloropropene
Concen: 8.198 ug/l
RT: 7.701 min Scan# 91
Delta R.T. -0.134 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Instrument :
MSVOA_Y
ClientSampleId :

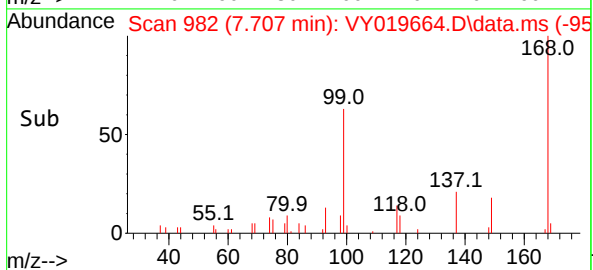
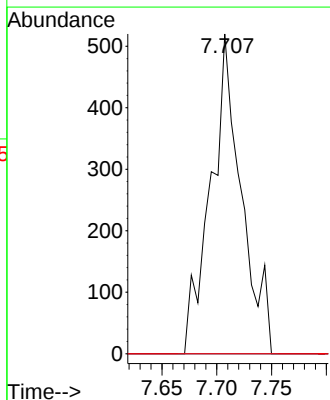
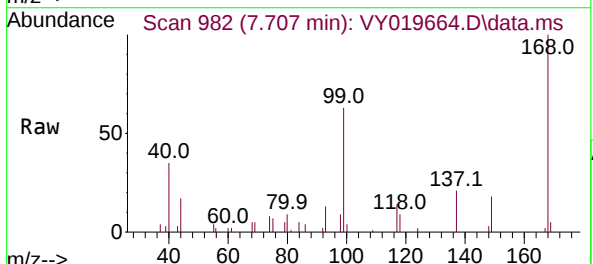


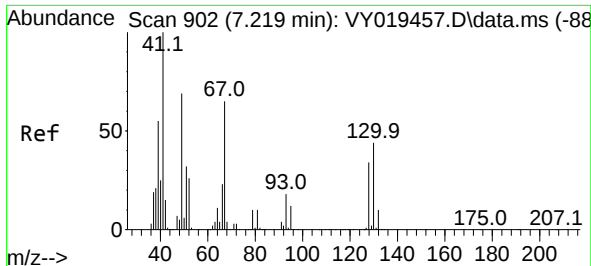
Tgt Ion: 75 Resp: 846
Ion Ratio Lower Upper
75 100
110 0.0 19.0 57.0#
77 0.0 25.3 37.9#



#38
Carbon Tetrachloride
Concen: 8.696 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.109 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

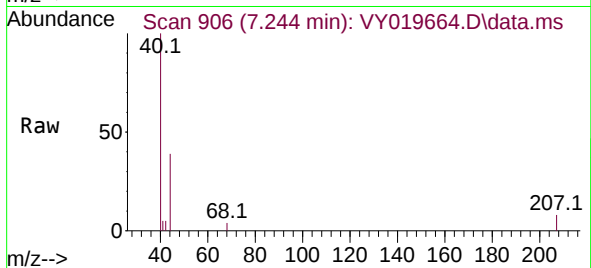
Tgt Ion: 117 Resp: 1012
Ion Ratio Lower Upper
117 100
119 0.0 75.8 113.6#
121 0.0 24.0 36.0#



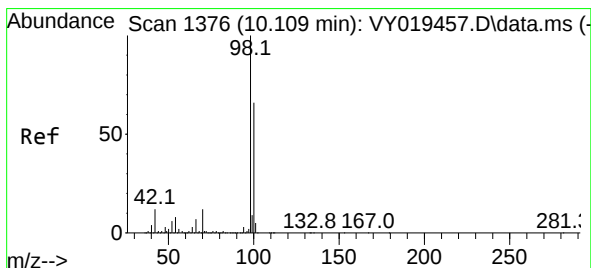
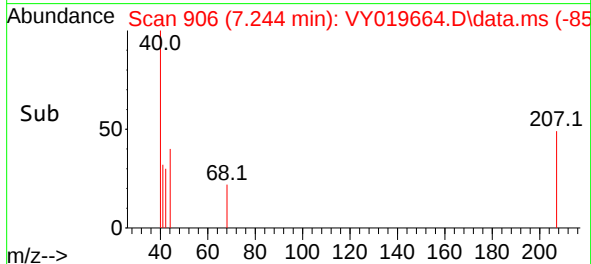
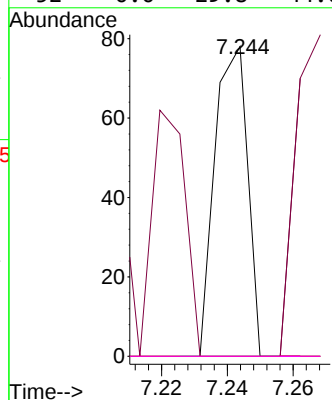


#41
Methacrylonitrile
Concen: 1.752 ug/l
RT: 7.244 min Scan# 90
Delta R.T. 0.025 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Instrument :
MSVOA_Y
ClientSampleId :

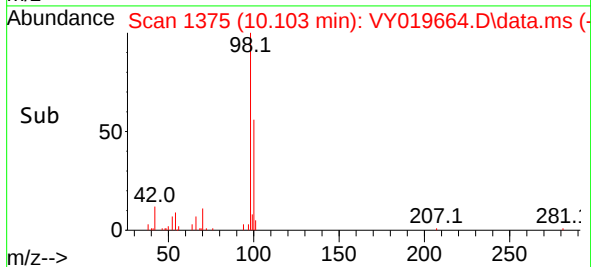
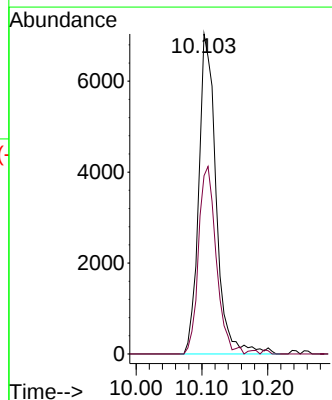
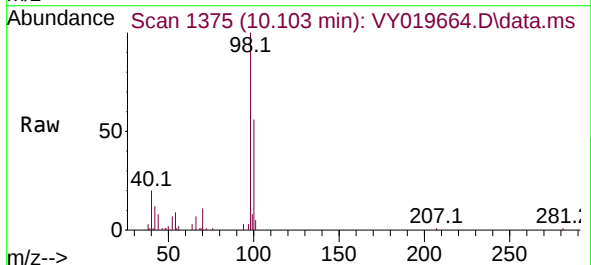


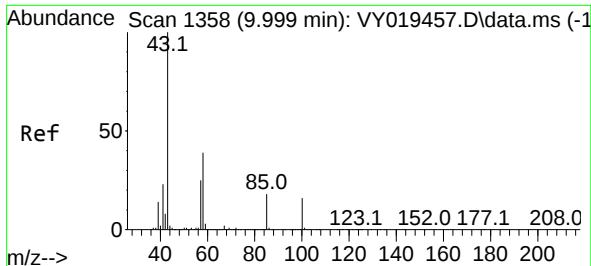
Tgt Ion: 41 Resp: 54
Ion Ratio Lower Upper
41 100
39 0.0 48.0 72.0#
67 0.0 75.1 112.7#
52 0.0 29.8 44.6#



#50
Toluene-d8
Concen: 46.030 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.006 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Tgt Ion: 98 Resp: 12912
Ion Ratio Lower Upper
98 100
100 59.4 52.0 78.0





#51

4-Methyl-2-Pentanone

Concen: 1.539 ug/l

RT: 9.999 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

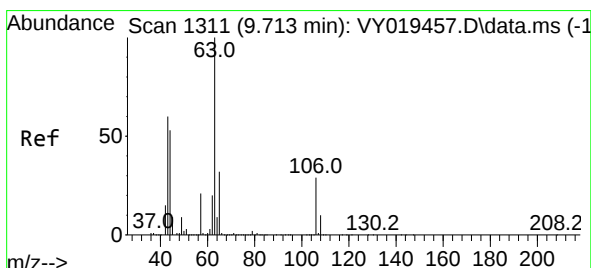
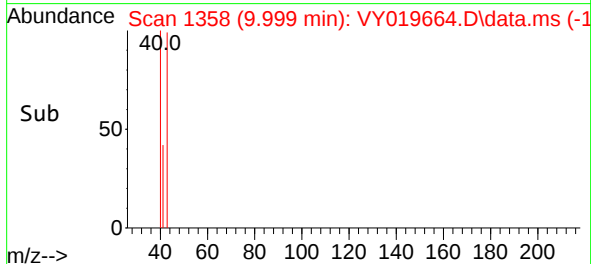
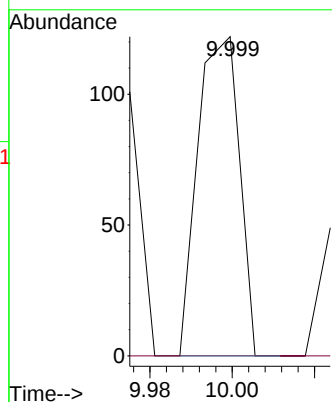
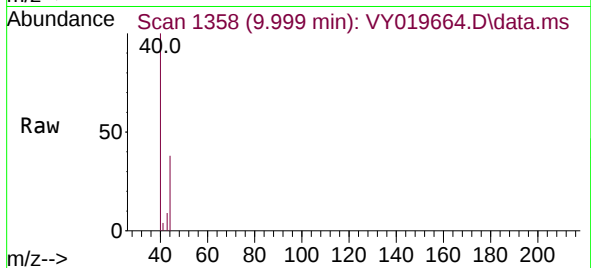
ClientSampleId :

Tgt Ion: 43 Resp: 86

Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#



#58

2-Chloroethyl Vinyl ether

Concen: 1.160 ug/l

RT: 9.445 min Scan# 1267

Delta R.T. -0.268 min

Lab File: VY019664.D

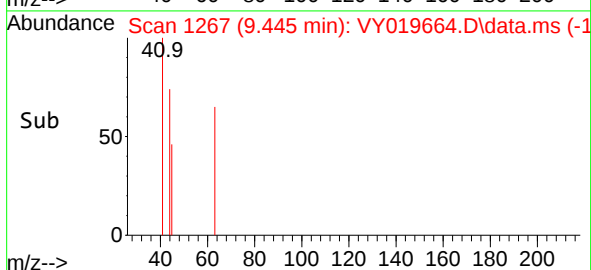
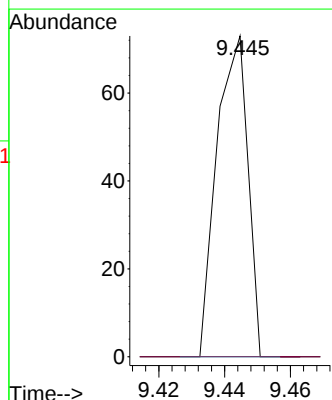
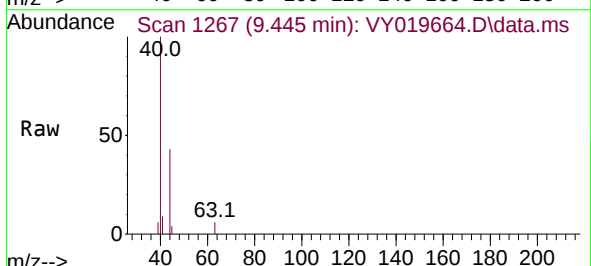
Acq: 23 Sep 2024 13:41

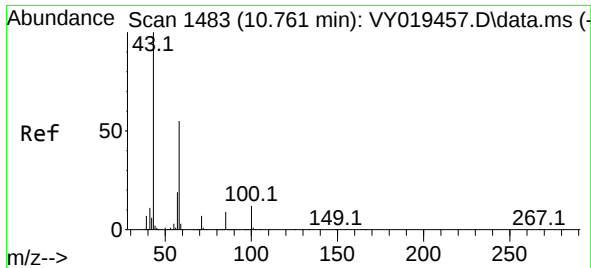
Tgt Ion: 63 Resp: 48

Ion Ratio Lower Upper

63 100

106 0.0 23.7 35.5#

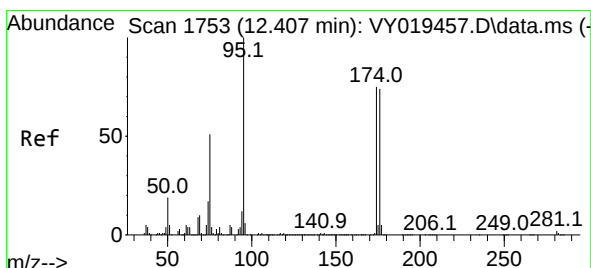
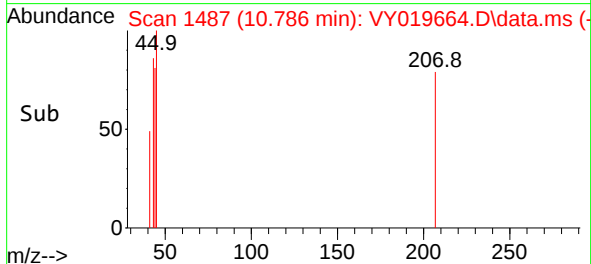
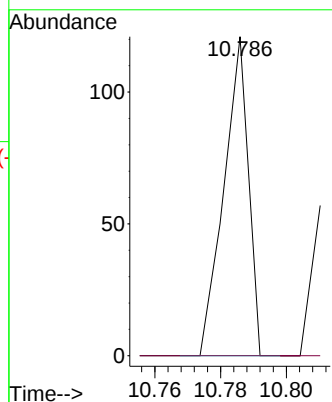
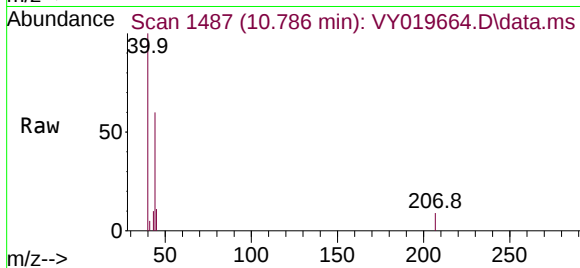




#59
2-Hexanone
Concen: 1.538 ug/l
RT: 10.786 min Scan# 1487
Delta R.T. 0.025 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

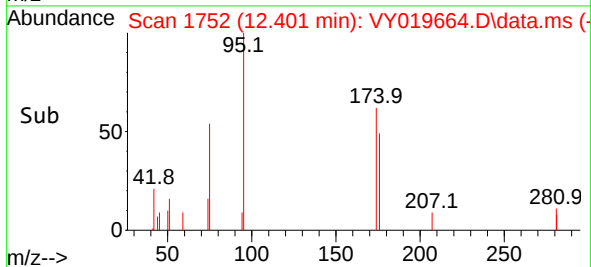
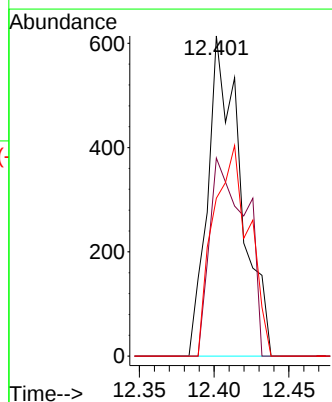
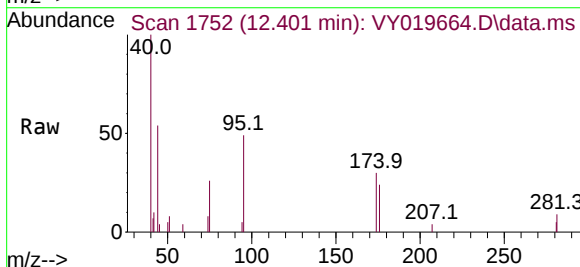
Instrument :
MSVOA_Y
ClientSampleId :

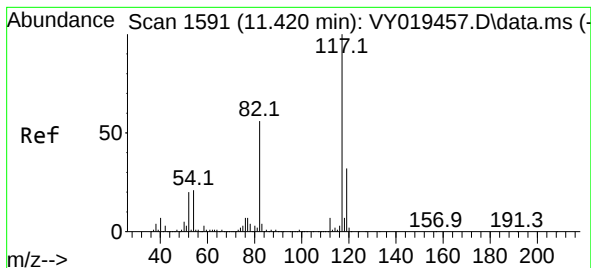
Tgt Ion: 43 Resp: 63
Ion Ratio Lower Upper
43 100
58 0.0 31.4 94.0#



#62
4-Bromofluorobenzene
Concen: 8.687 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

Tgt Ion: 95 Resp: 937
Ion Ratio Lower Upper
95 100
174 68.4 0.0 175.6
176 71.4 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 117

Delta R.T. -0.006 min

Lab File: VY019664.D

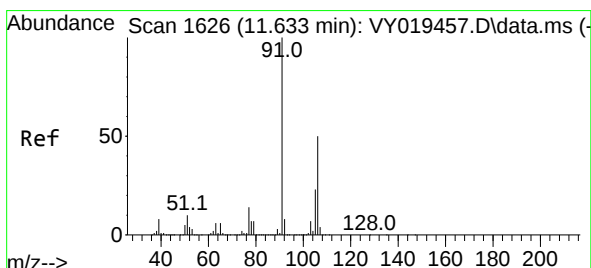
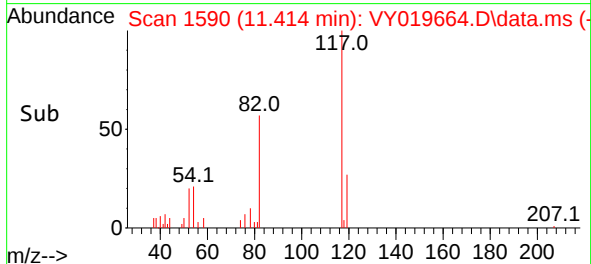
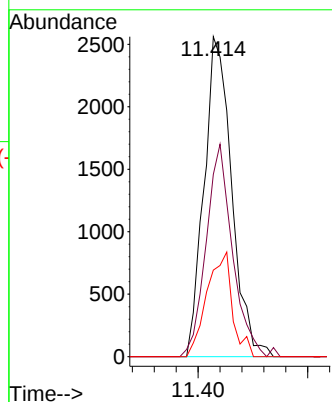
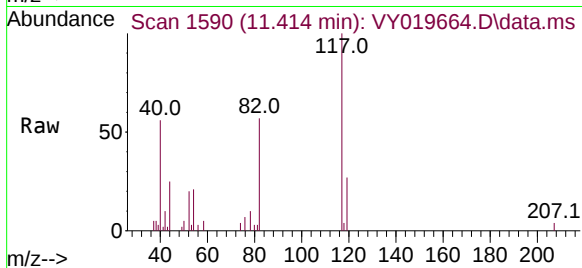
Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:117	Resp:	4475
Ion	Ratio	Lower Upper
117	100	
82	57.0	42.4 63.6
119	27.1	25.9 38.9



#68

m/p-Xylenes

Concen: 1.488 ug/l

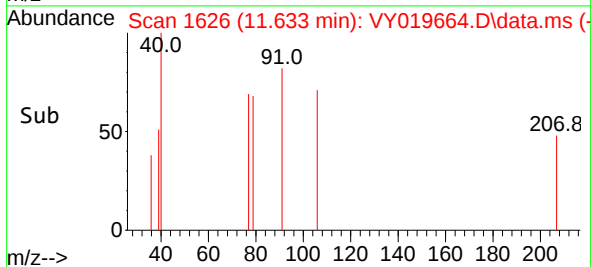
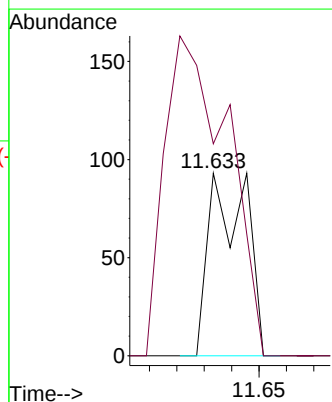
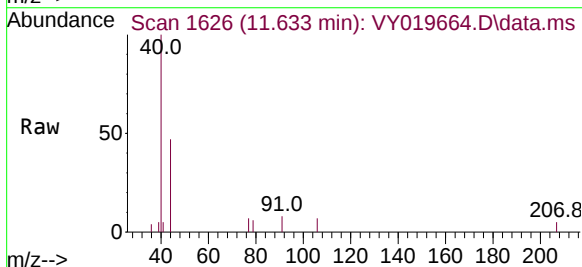
RT: 11.633 min Scan# 1626

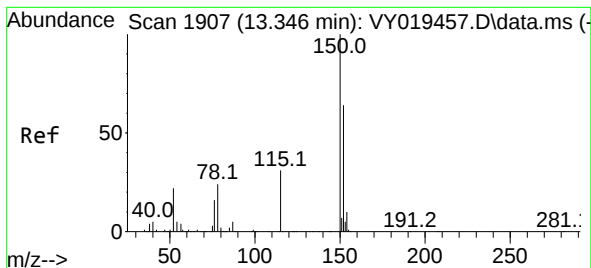
Delta R.T. 0.000 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Tgt Ion:106	Resp:	88
Ion	Ratio	Lower Upper
106	100	
91	295.5	156.0 234.0#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.353 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

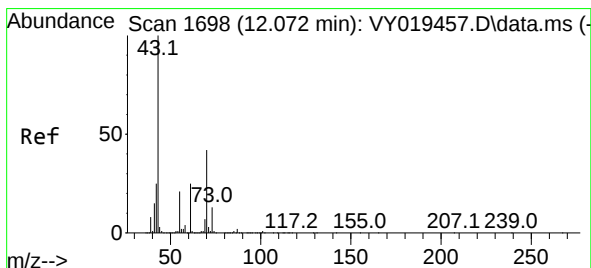
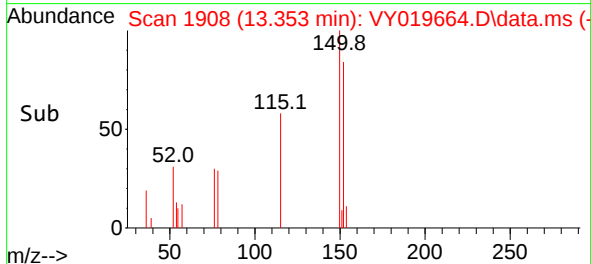
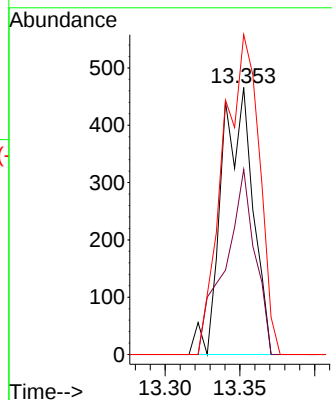
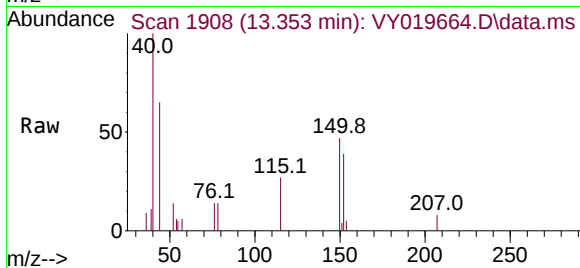
Tgt Ion:152 Resp: 675

Ion Ratio Lower Upper

152 100

115 66.7 28.2 84.7

150 139.0 0.0 345.6



#74

N-ethyl acetate

Concen: 1.952 ug/l

RT: 12.072 min Scan# 1698

Delta R.T. 0.000 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Tgt Ion: 43 Resp: 26

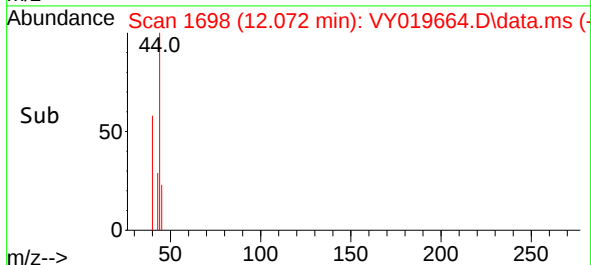
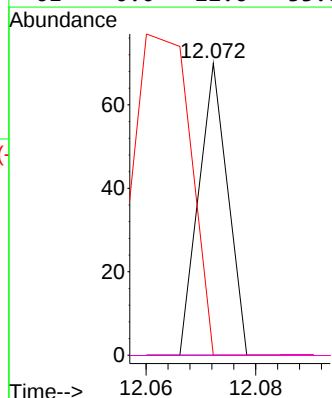
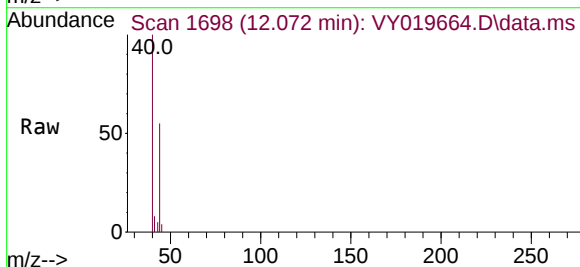
Ion Ratio Lower Upper

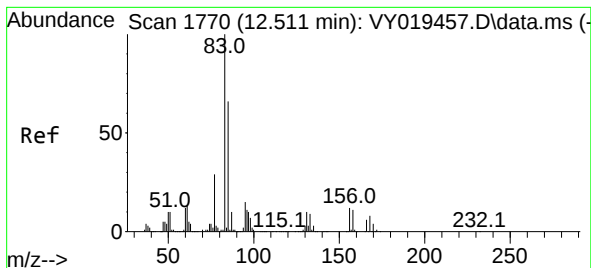
43 100

70 0.0 41.4 62.2#

55 0.0 23.3 34.9#

61 0.0 22.6 33.8#





#75

1,1,2,2-Tetrachloroethane

Concen: 2.186 ug/l

RT: 12.432 min Scan# 1753

Delta R.T. -0.079 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

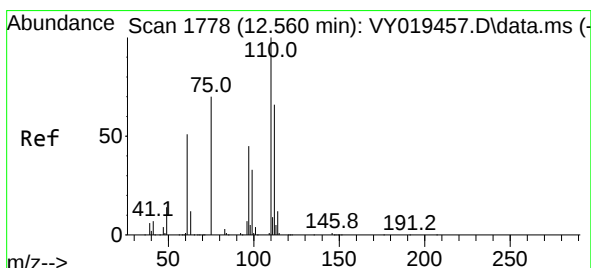
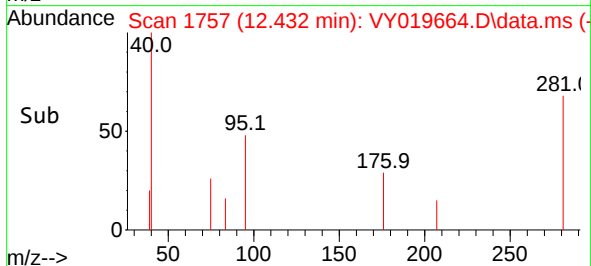
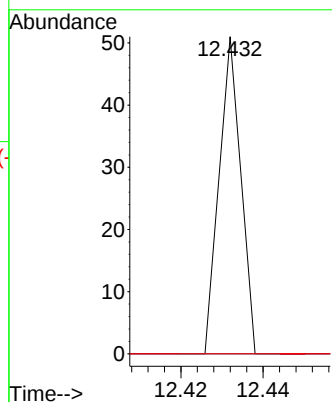
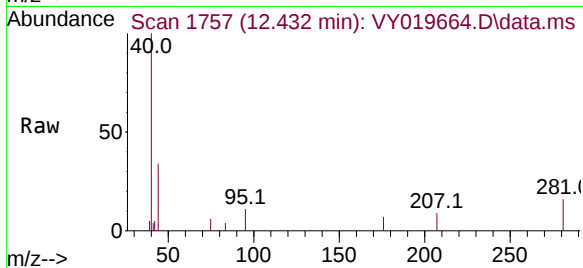
Tgt Ion: 83 Resp: 19

Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.0 96.0#



#76

1,2,3-Trichloropropane

Concen: 85.669 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.152 min

Lab File: VY019664.D

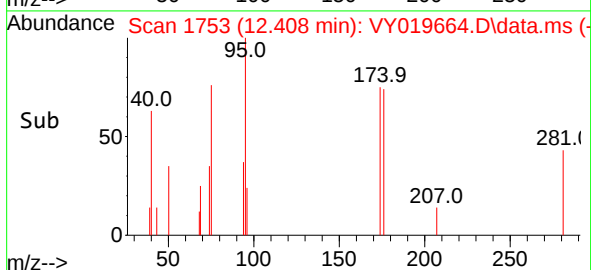
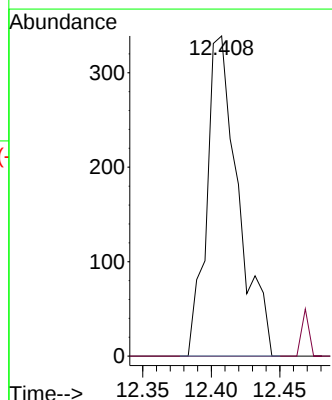
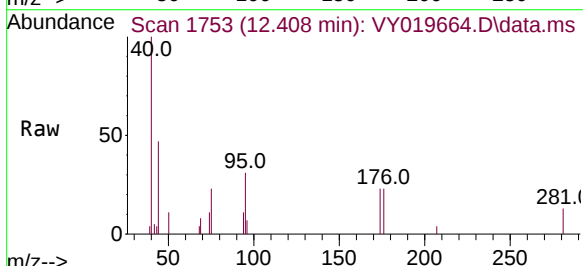
Acq: 23 Sep 2024 13:41

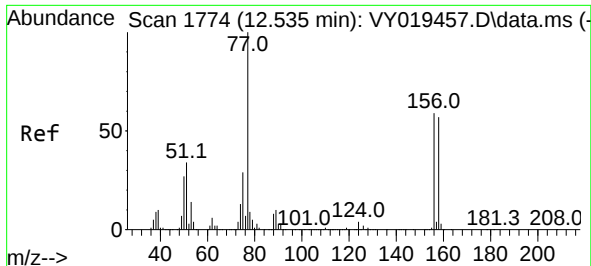
Tgt Ion: 75 Resp: 542

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0

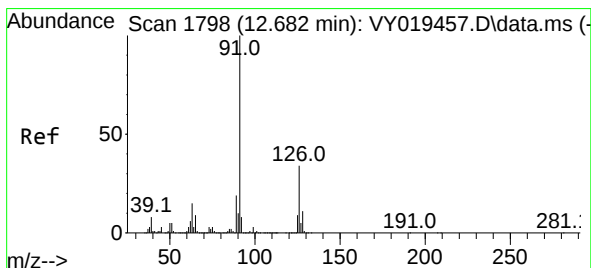
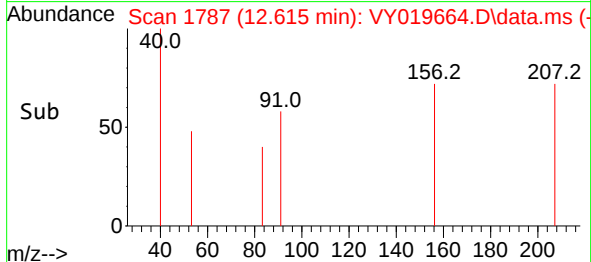
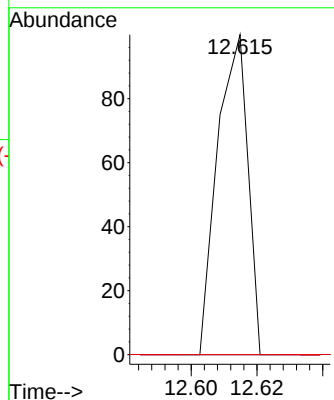
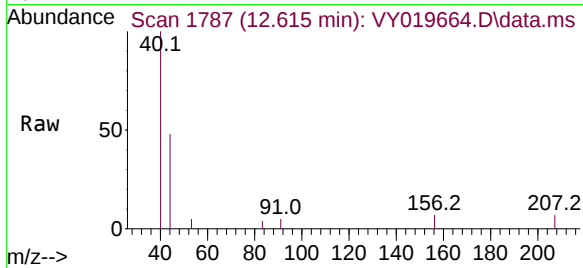




#77
Bromobenzene
Concen: 5.893 ug/l
RT: 12.615 min Scan# 11
Delta R.T. 0.080 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

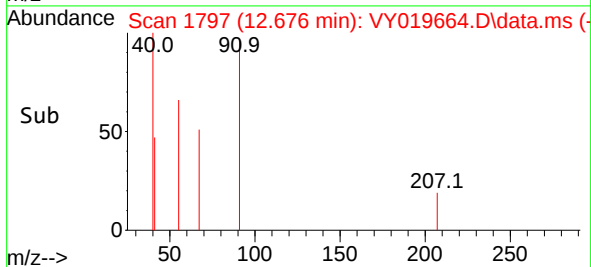
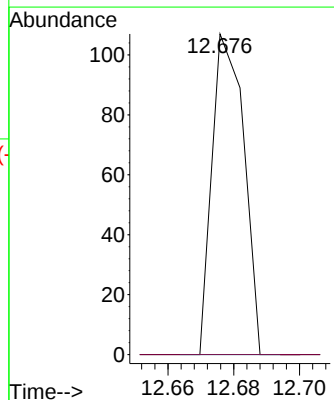
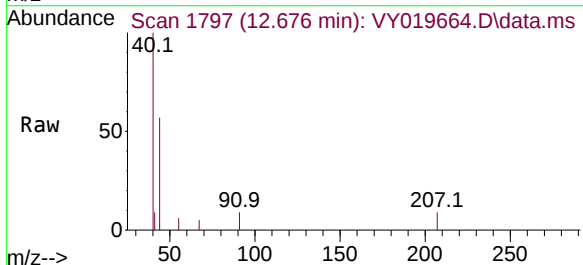
Instrument :
MSVOA_Y
ClientSampleId :

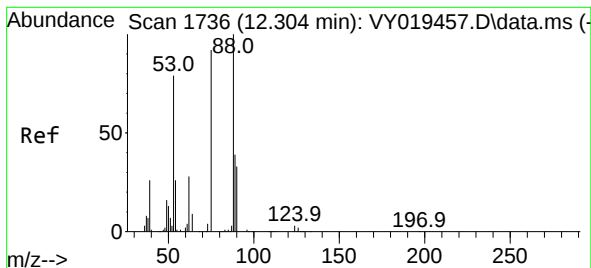
Tgt Ion:156 Resp: 64
Ion Ratio Lower Upper
156 100
77 0.0 87.1 261.3#
158 0.0 48.6 145.9#



#79
2-Chlorotoluene
Concen: 2.129 ug/l
RT: 12.676 min Scan# 1797
Delta R.T. -0.006 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

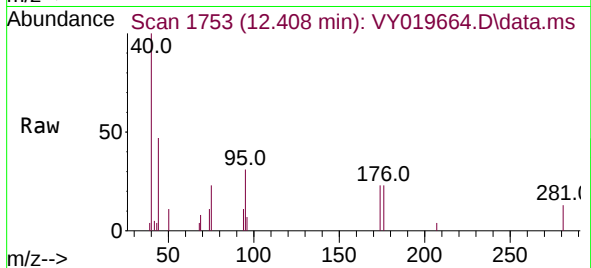
Tgt Ion: 91 Resp: 72
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



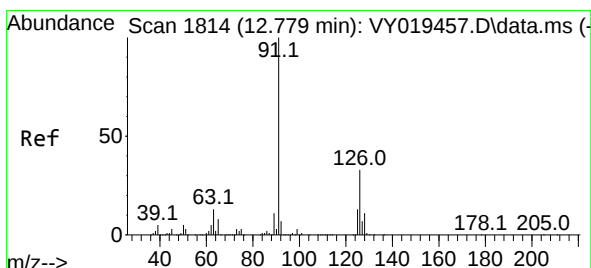
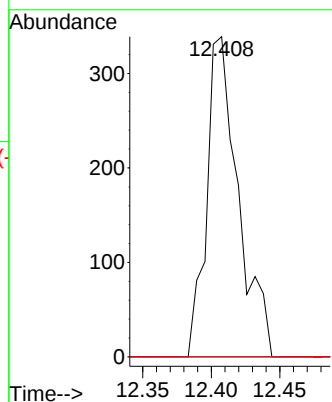
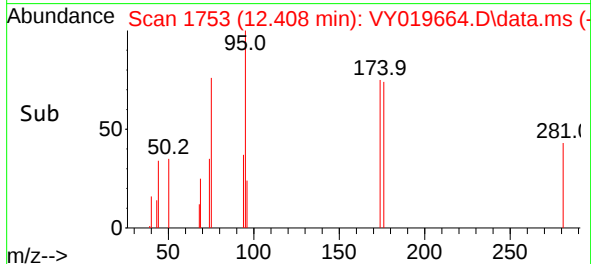


#81
trans-1,4-Dichloro-2-butene
Concen: 164.459 ug/l
RT: 12.408 min Scan# 11
Delta R.T. 0.104 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41

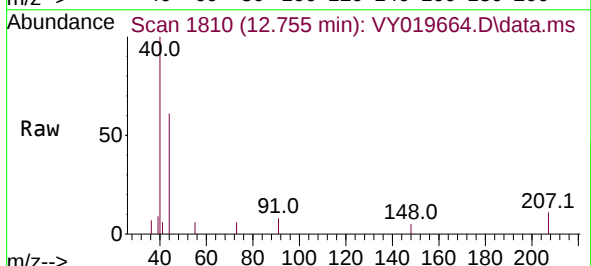
Instrument :
MSVOA_Y
ClientSampleId :



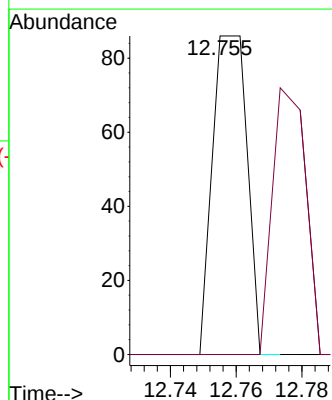
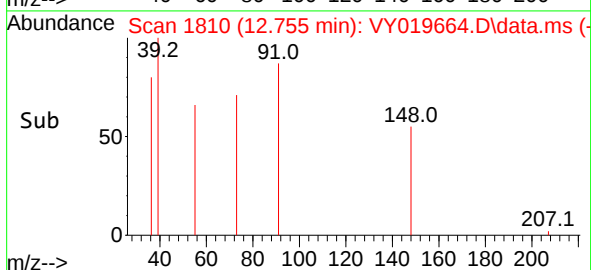
Tgt Ion	Ratio	Lower	Upper
75	100		
53	0.0	66.8	100.2#
89	0.0	35.8	53.6#

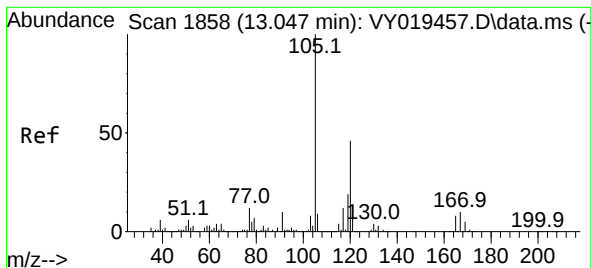


#82
4-Chlorotoluene
Concen: 1.812 ug/l
RT: 12.755 min Scan# 1810
Delta R.T. -0.024 min
Lab File: VY019664.D
Acq: 23 Sep 2024 13:41



Tgt Ion	Ratio	Lower	Upper
91	100		
126	79.4	17.6	52.9#





#84

1,2,4-Trimethylbenzene

Concen: 2.030 ug/l

RT: 13.042 min Scan# 1858

Delta R.T. -0.006 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

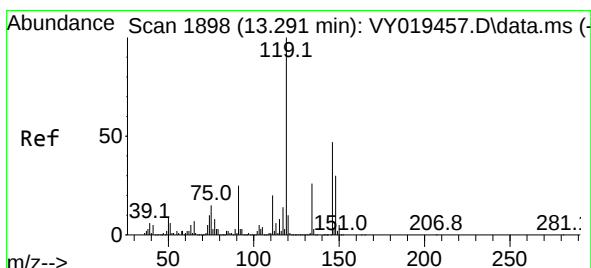
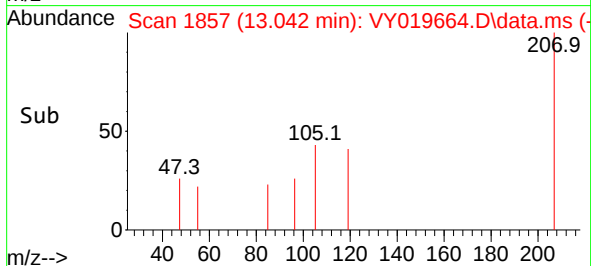
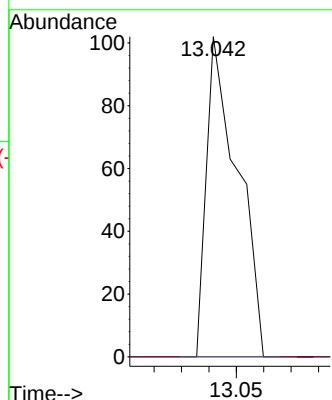
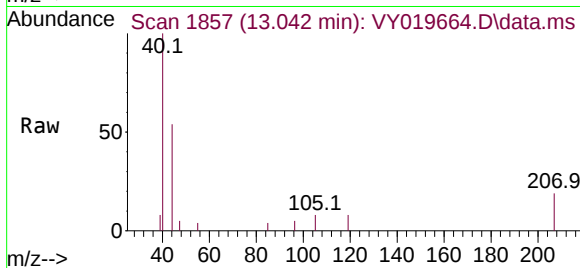
ClientSampleId :

Tgt Ion:105 Resp: 80

Ion Ratio Lower Upper

105 100

120 0.0 23.2 69.6#



#86

p-Isopropyltoluene

Concen: 2.148 ug/l

RT: 13.292 min Scan# 1898

Delta R.T. 0.000 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

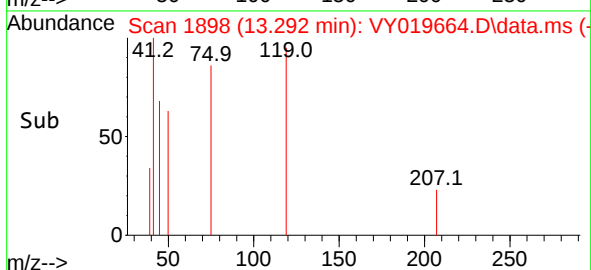
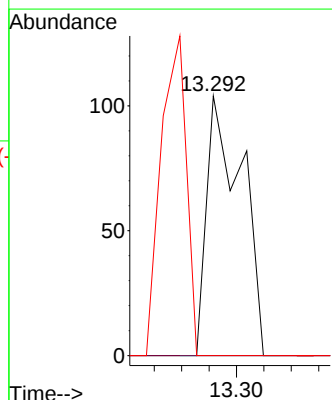
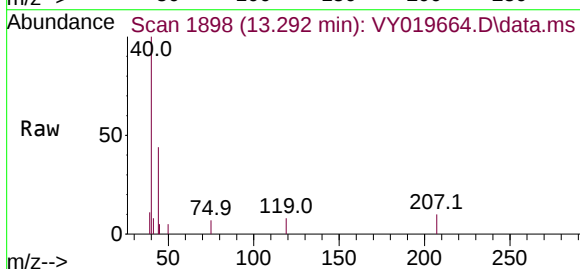
Tgt Ion:119 Resp: 92

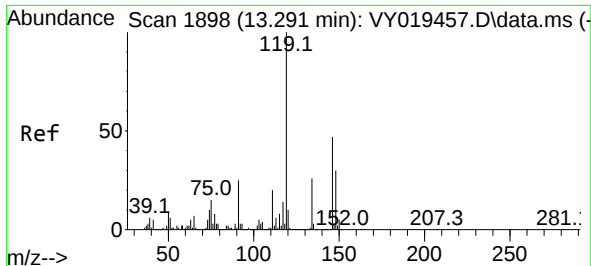
Ion Ratio Lower Upper

119 100

134 0.0 13.1 39.3#

91 89.1 10.7 32.1#





#87

1,3-Dichlorobenzene

Concen: 1.090 ug/l

RT: 13.389 min Scan# 1914

Delta R.T. 0.098 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

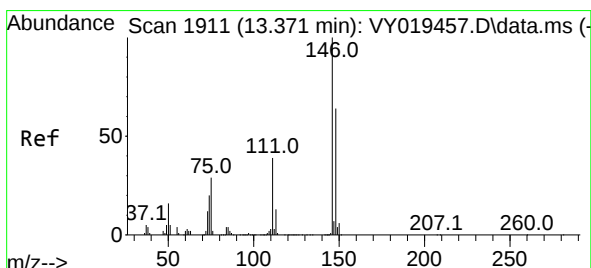
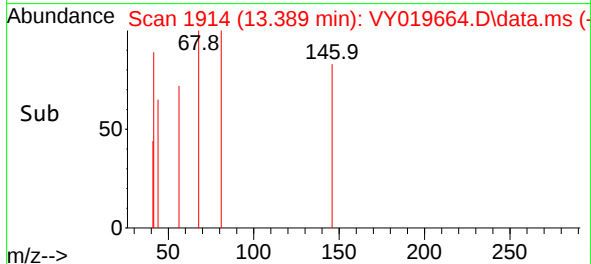
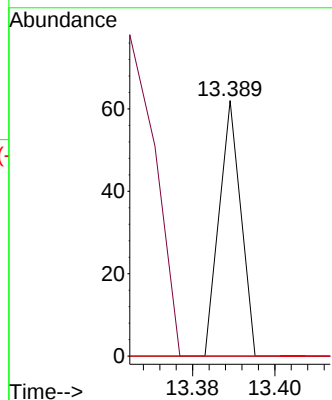
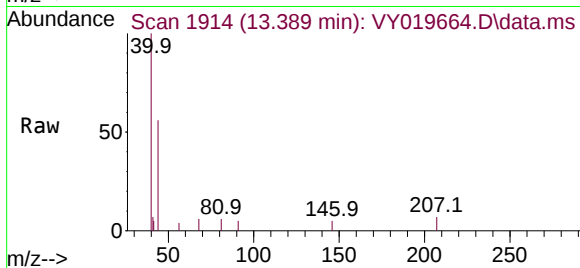
Tgt Ion:146 Resp: 23

Ion Ratio Lower Upper

146 100

111 0.0 19.0 57.0#

148 0.0 31.7 95.1#



#88

1,4-Dichlorobenzene

Concen: 1.098 ug/l

RT: 13.389 min Scan# 1914

Delta R.T. 0.019 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

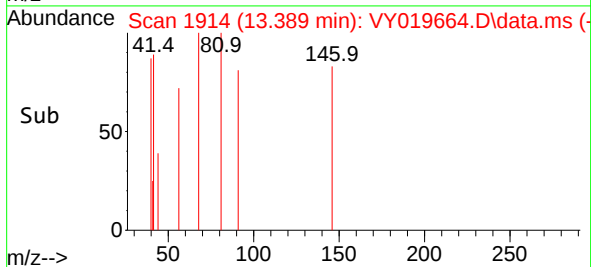
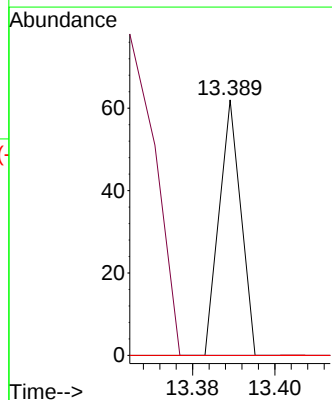
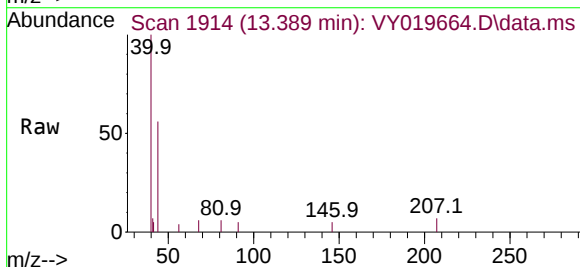
Tgt Ion:146 Resp: 23

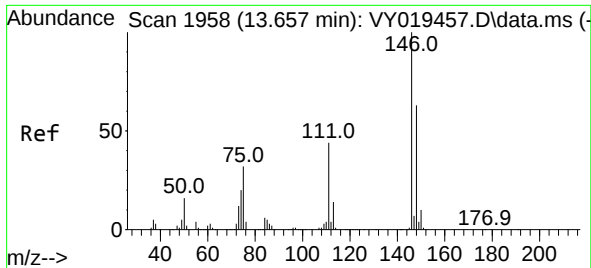
Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

148 0.0 32.4 97.2#





#91

1,2-Dichlorobenzene

Concen: 1.062 ug/l

RT: 13.761 min Scan# 1958

Delta R.T. 0.104 min

Lab File: VY019664.D

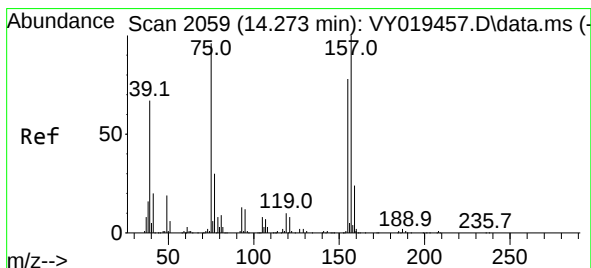
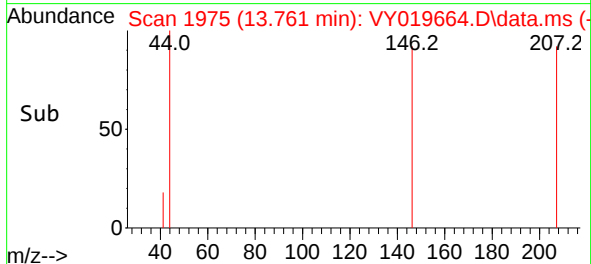
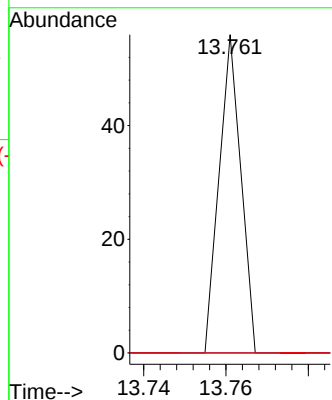
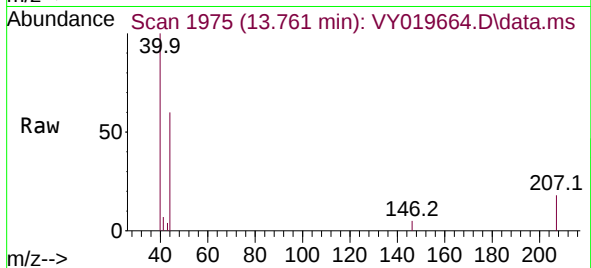
Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:146	Resp:	20
Ion	Ratio	Lower Upper
146	100	
111	0.0	19.9 59.7#
148	0.0	31.8 95.4#



#92

1,2-Dibromo-3-Chloropropane

Concen: 33.136 ug/l

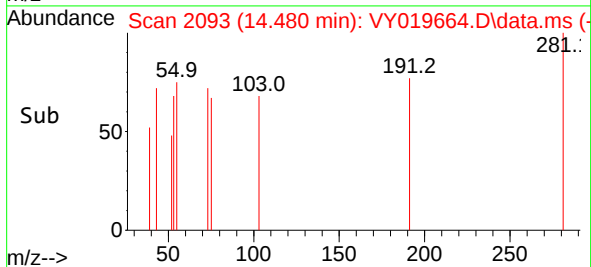
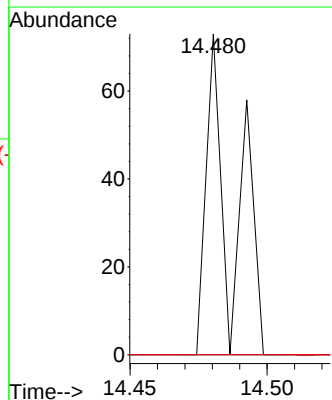
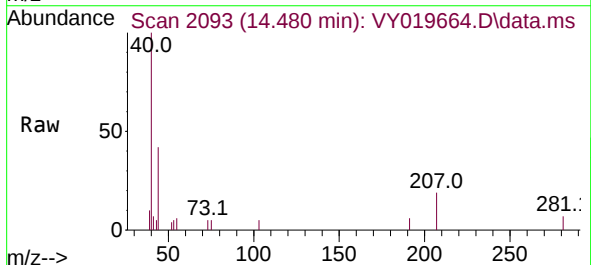
RT: 14.480 min Scan# 2093

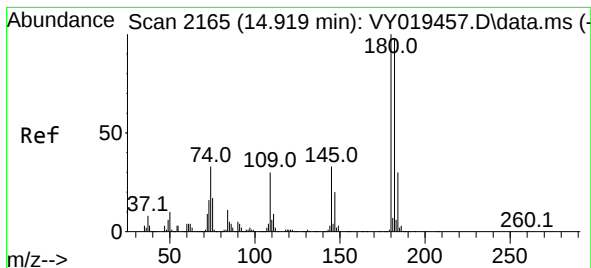
Delta R.T. 0.208 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Tgt Ion: 75	Resp:	48
Ion	Ratio	Lower Upper
75	100	
155	0.0	48.6 145.8#
157	0.0	62.7 188.2#





#93

1,2,4-Trichlorobenzene

Concen: 9.080 ug/l

RT: 14.913 min Scan# 2165

Delta R.T. -0.006 min

Lab File: VY019664.D

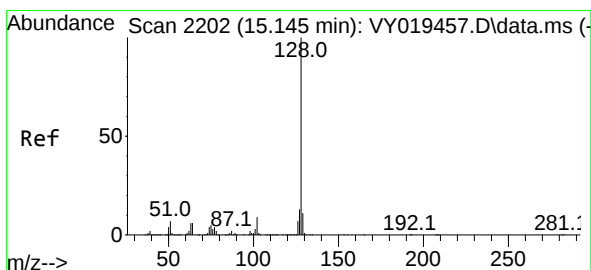
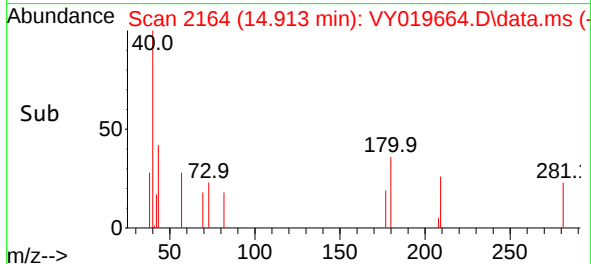
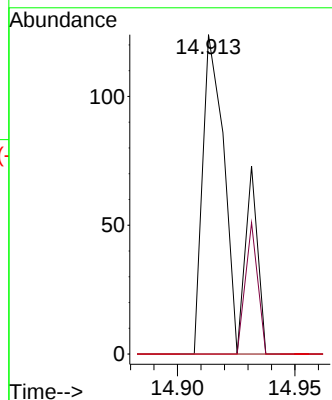
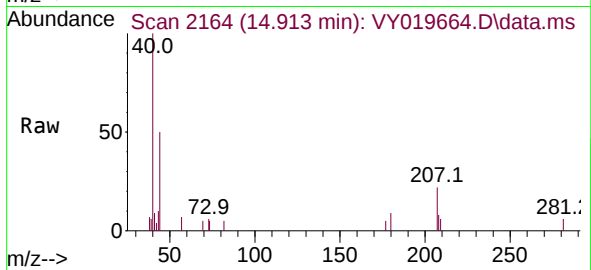
Acq: 23 Sep 2024 13:41

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:180	Resp:	104
Ion Ratio	Lower	Upper
180	100	
182	18.3	47.9 143.8#
145	0.0	14.2 42.6#



#95

Naphthalene

Concen: 19.052 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY019664.D

Acq: 23 Sep 2024 13:41

Tgt Ion:128	Resp:	437
Ion Ratio	Lower	Upper
128	100	
127	0.0	10.6 16.0#
129	0.0	8.6 13.0#

