

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092524\
 Data File : VY019697.D
 Acq On : 25 Sep 2024 16:01
 Operator : SY/MD
 Sample : P4168-01
 Misc : 5.03g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 26 04:01:56 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)

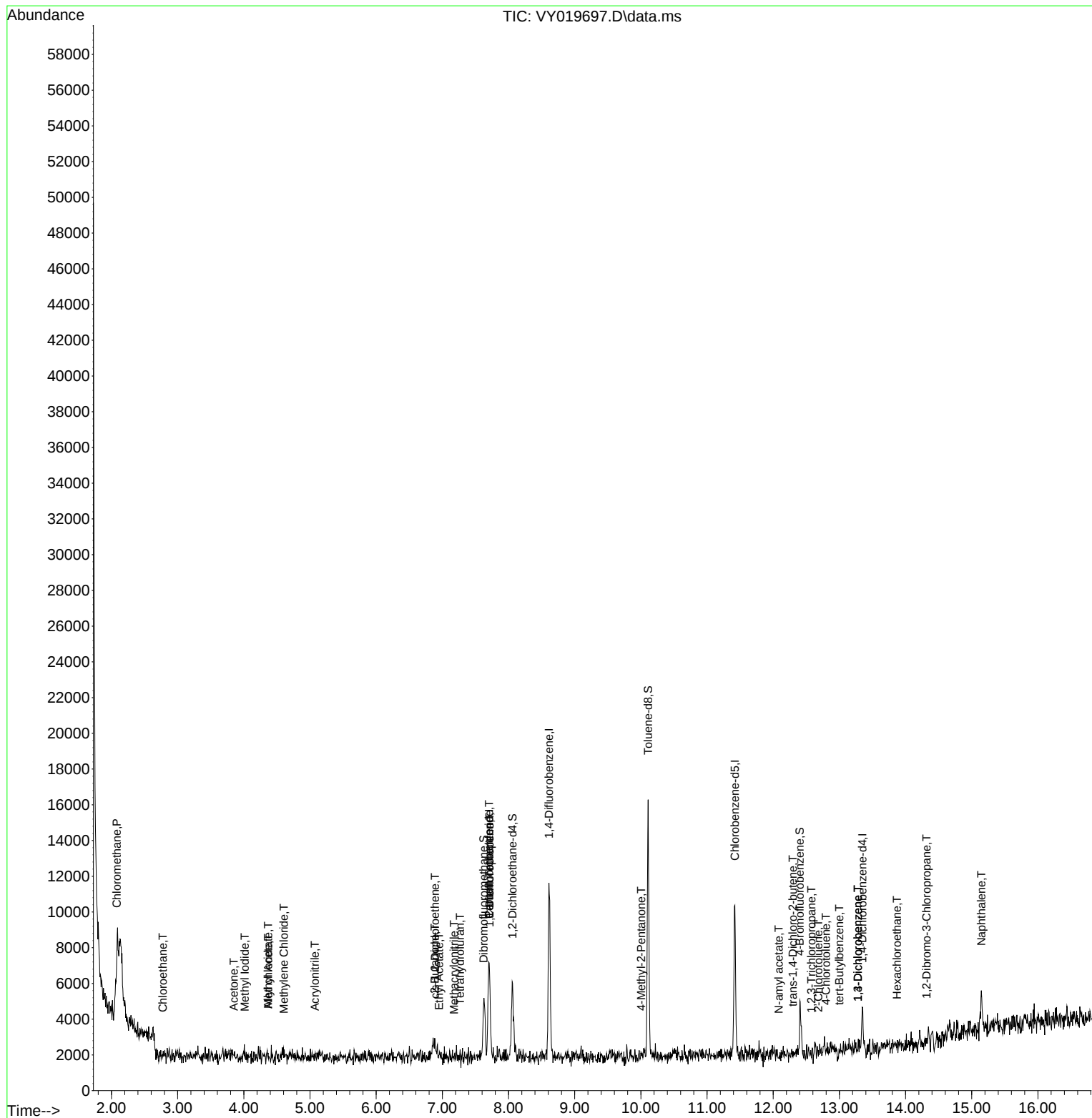
Internal Standards						
1) Pentafluorobenzene	7.707	168	4467	50.000	ug/l	# 0.00
34) 1,4-Difluorobenzene	8.610	114	8477	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	4716	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	779	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	3262	78.862	ug/l	0.00
Spiked Amount 50.000	Range 50	- 163	Recovery	=	157.720%	
35) Dibromofluoromethane	7.622	113	2932	61.003	ug/l	-0.01
Spiked Amount 50.000	Range 54	- 147	Recovery	=	122.000%	
50) Toluene-d8	10.109	98	8947	50.328	ug/l	0.00
Spiked Amount 50.000	Range 58	- 134	Recovery	=	100.660%	
62) 4-Bromofluorobenzene	12.402	95	1038	15.185	ug/l	0.00
Spiked Amount 50.000	Range 29	- 146	Recovery	=	30.380%	
Target Compounds						
						Qvalue
3) Chloromethane	2.080	50	59	1.596	ug/l	# 43
6) Chloroethane	2.775	64	31	1.187	ug/l	# 42
10) Methyl Iodide	4.013	142	74	1.401	ug/l	# 42
14) Allyl chloride	4.367	41	122	1.717	ug/l	# 36
15) Acrylonitrile	5.074	53	74	7.675	ug/l	# 18
16) Acetone	3.848	43	135	13.700	ug/l	# 36
18) Methyl Acetate	4.367	43	50	1.870	ug/l	# 46
20) Methylene Chloride	4.604	84	142	3.160	ug/l	# 42
25) 2-Butanone	6.884	43	262	18.694	ug/l	# 41
27) cis-1,2-Dichloroethene	6.890	96	69	1.308	ug/l	# 1
29) Tetrahydrofuran	7.268	42	53	6.220	ug/l	# 26
36) 1,1-Dichloropropene	7.713	75	439	6.713	ug/l	# 40
37) Ethyl Acetate	6.951	43	102	3.044	ug/l	# 67
38) Carbon Tetrachloride	7.707	117	507	6.875	ug/l	# 13
41) Methacrylonitrile	7.177	41	30	1.536	ug/l	# 15
51) 4-Methyl-2-Pentanone	10.006	43	65	1.835	ug/l	# 31
74) N-amyl acetate	12.085	43	51	3.318	ug/l	# 1
76) 1,2,3-Trichloropropane	12.578	75	20	2.739	ug/l	# 100
79) 2-Chlorotoluene	12.682	91	88	2.254	ug/l	# 39
81) trans-1,4-Dichloro-2-b...	12.298	75	39	10.254	ug/l	# 75
82) 4-Chlorotoluene	12.798	91	131	3.264	ug/l	# 39
83) tert-Butylbenzene	12.999	119	48	1.154	ug/l	# 77
87) 1,3-Dichlorobenzene	13.280	146	45	1.848	ug/l	# 25
88) 1,4-Dichlorobenzene	13.280	146	45	1.862	ug/l	# 25
90) Hexachloroethane	13.871	117	26	2.528	ug/l	# 12
92) 1,2-Dibromo-3-Chloropr...	14.316	75	20	11.963	ug/l	# 1
95) Naphthalene	15.145	128	1865	70.454	ug/l	# 81

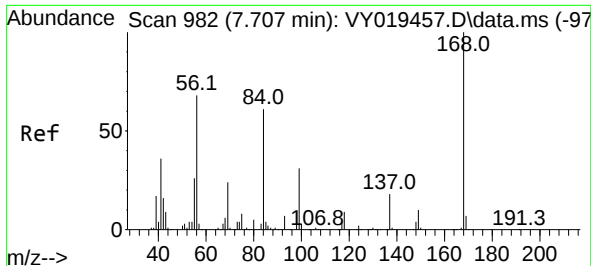
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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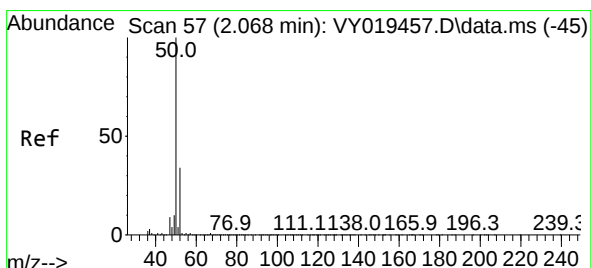
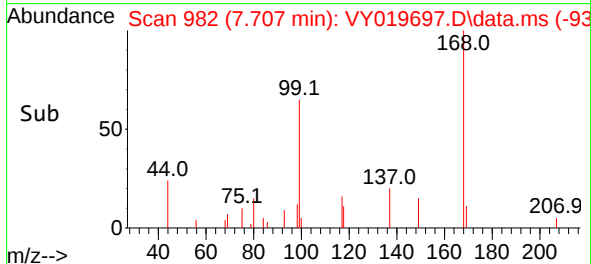
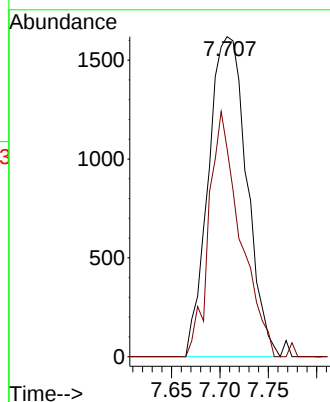
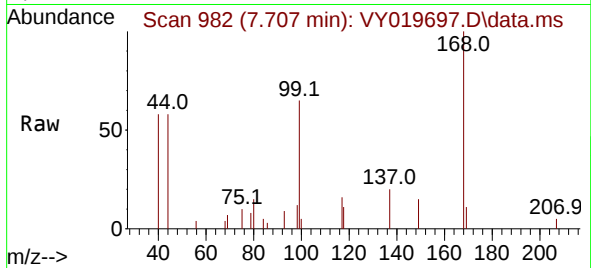




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY019697.D
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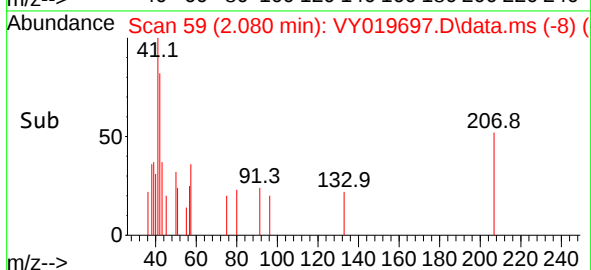
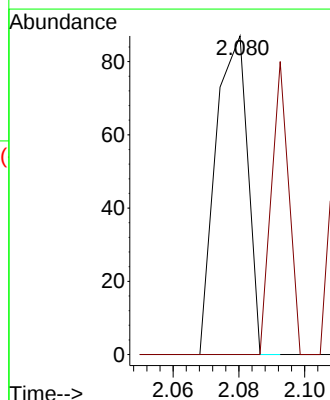
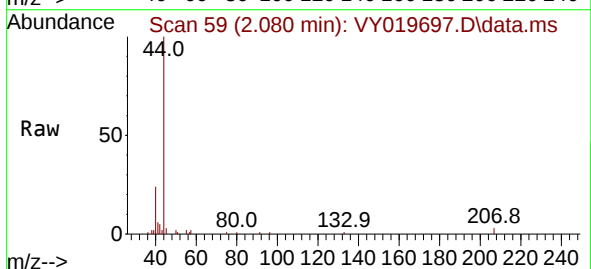
Instrument :
MSVOA_Y
ClientSampleId :

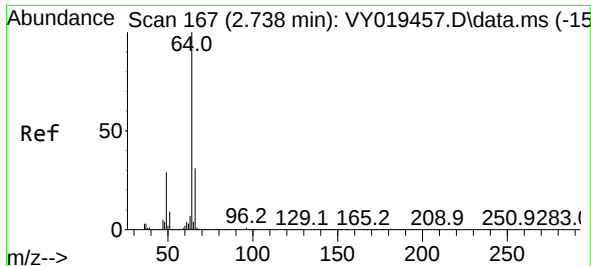
Tgt Ion:168 Resp: 4467
Ion Ratio Lower Upper
168 100
99 65.0 39.1 58.7#



#3
Chloromethane
Concen: 1.596 ug/l
RT: 2.080 min Scan# 59
Delta R.T. 0.013 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion: 50 Resp: 59
Ion Ratio Lower Upper
50 100
52 0.0 25.6 38.4#

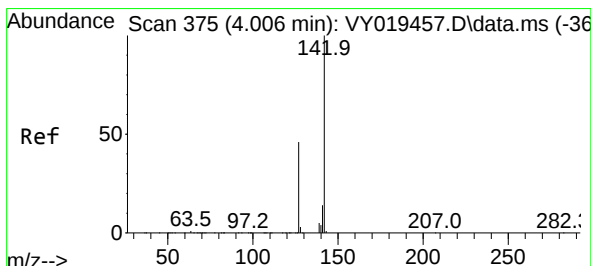
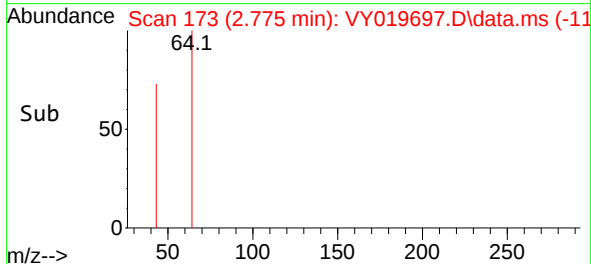
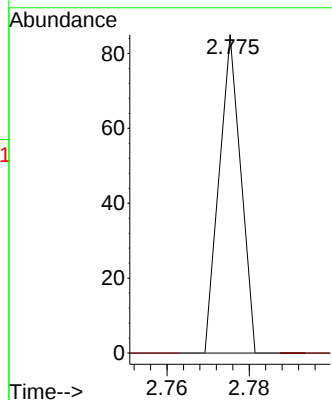
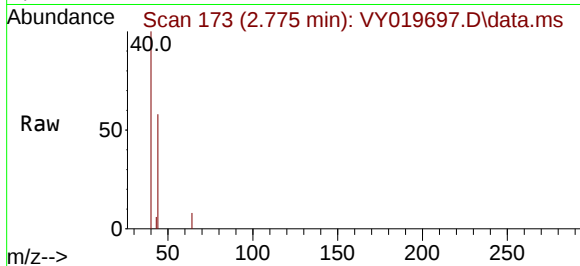




#6
Chloroethane
Concen: 1.187 ug/l
RT: 2.775 min Scan# 11
Delta R.T. 0.037 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

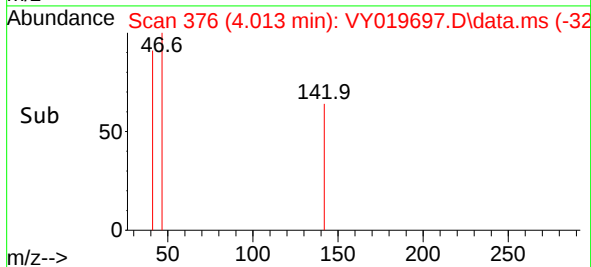
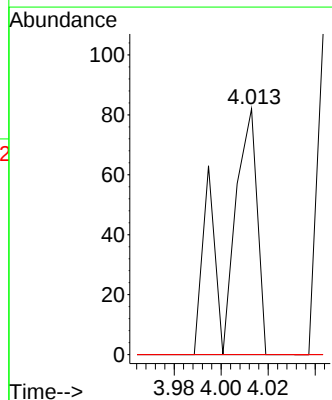
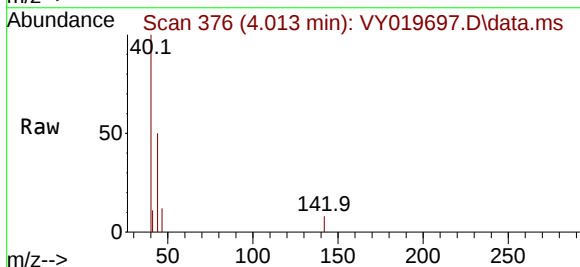
Instrument :
MSVOA_Y
ClientSampleId :

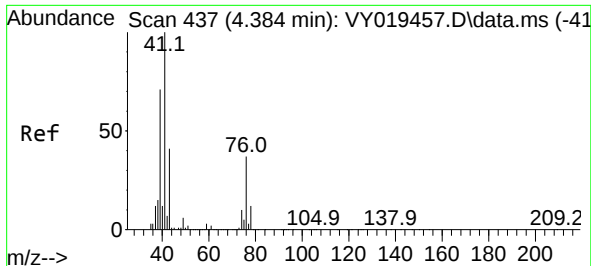
Tgt Ion: 64 Resp: 31
Ion Ratio Lower Upper
64 100
66 0.0 26.1 39.1#



#10
Methyl Iodide
Concen: 1.401 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.007 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

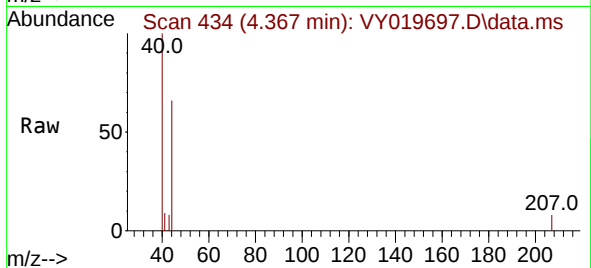
Tgt Ion: 142 Resp: 74
Ion Ratio Lower Upper
142 100
127 0.0 32.8 49.2#
141 0.0 11.4 17.2#



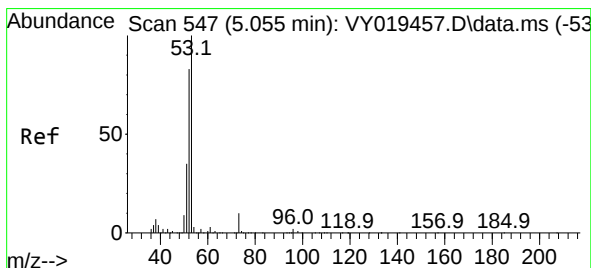
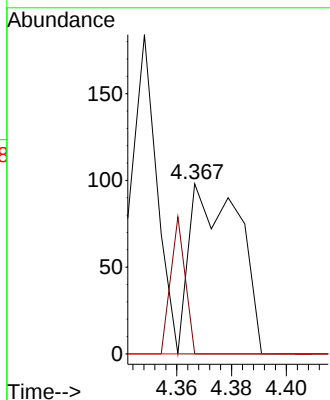
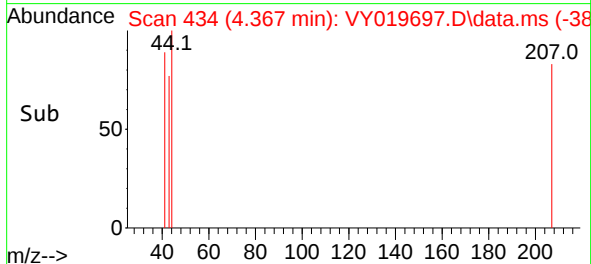


#14
 Allyl chloride
 Concen: 1.717 ug/l
 RT: 4.367 min Scan# 41
 Delta R.T. -0.018 min
 Lab File: VY019697.D
 Acq: 25 Sep 2024 16:01

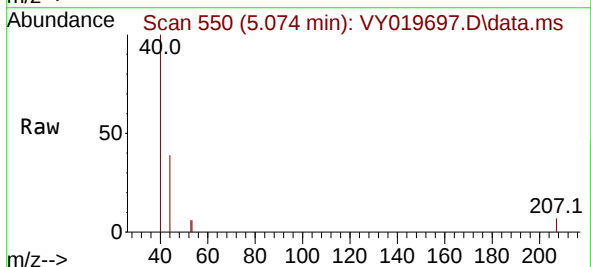
Instrument :
 MSVOA_Y
 ClientSampleId :



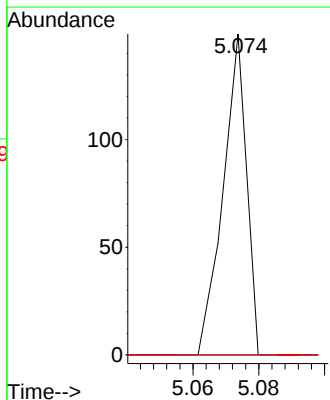
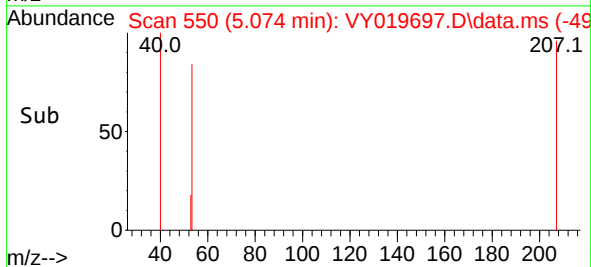
Tgt Ion: 41 Resp: 122
 Ion Ratio Lower Upper
 41 100
 39 23.8 58.3 87.5#
 76 0.0 39.0 58.6#

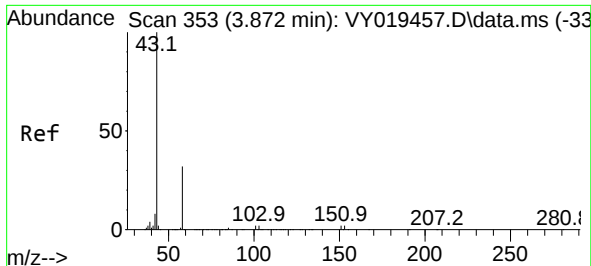


#15
 Acrylonitrile
 Concen: 7.675 ug/l
 RT: 5.074 min Scan# 550
 Delta R.T. 0.019 min
 Lab File: VY019697.D
 Acq: 25 Sep 2024 16:01



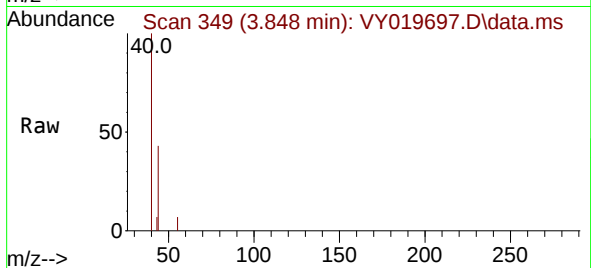
Tgt Ion: 53 Resp: 74
 Ion Ratio Lower Upper
 53 100
 52 0.0 64.7 97.1#
 51 0.0 28.4 42.6#



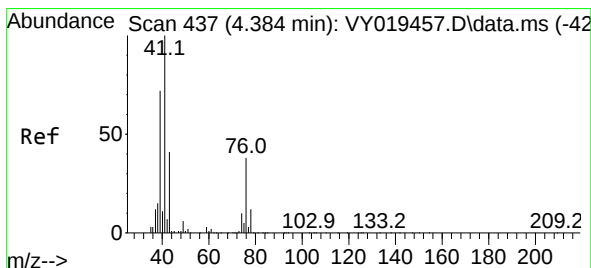
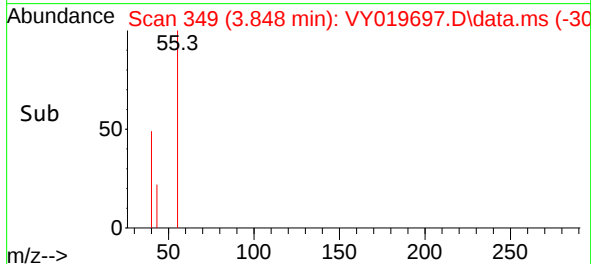
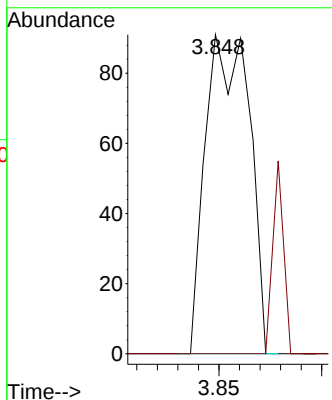


#16
Acetone
Concen: 13.700 ug/l
RT: 3.848 min Scan# 34
Delta R.T. -0.024 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

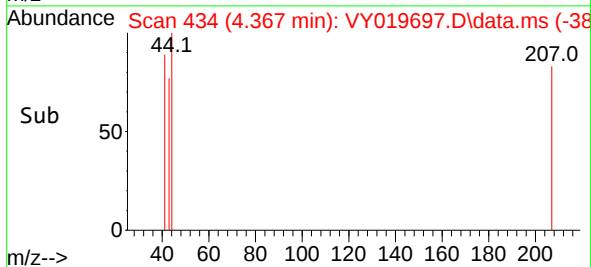
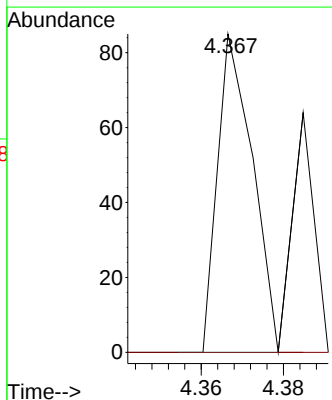
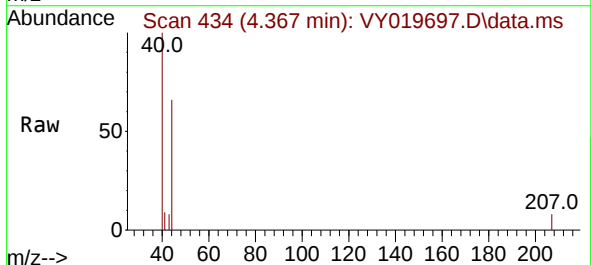


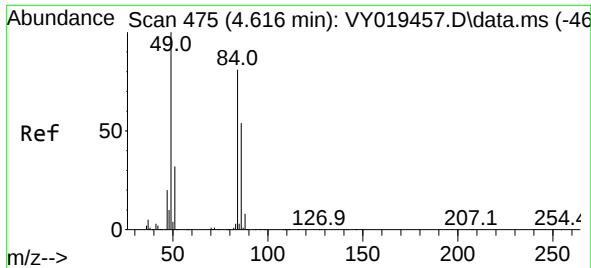
Tgt Ion: 43 Resp: 135
Ion Ratio Lower Upper
43 100
58 0.0 31.7 47.5#



#18
Methyl Acetate
Concen: 1.870 ug/l
RT: 4.367 min Scan# 434
Delta R.T. -0.018 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

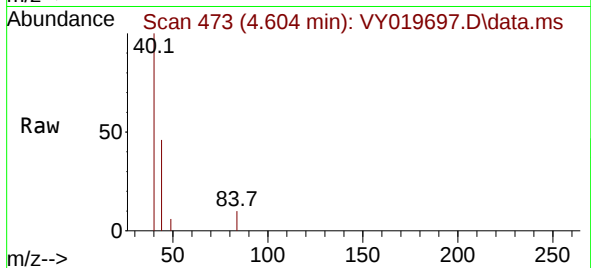
Tgt Ion: 43 Resp: 50
Ion Ratio Lower Upper
43 100
74 0.0 23.3 34.9#



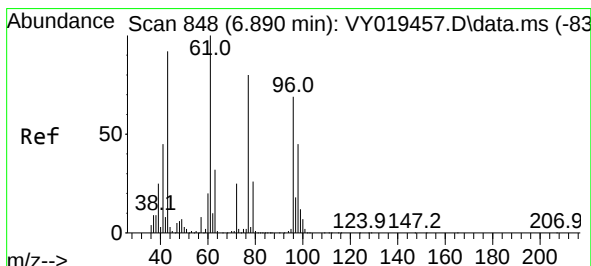
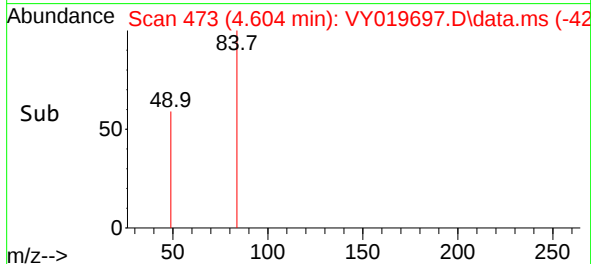
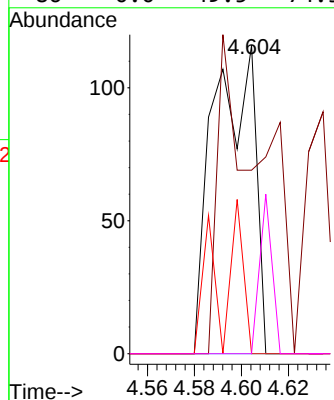


#20
Methylene Chloride
Concen: 3.160 ug/l
RT: 4.604 min Scan# 41
Delta R.T. -0.012 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

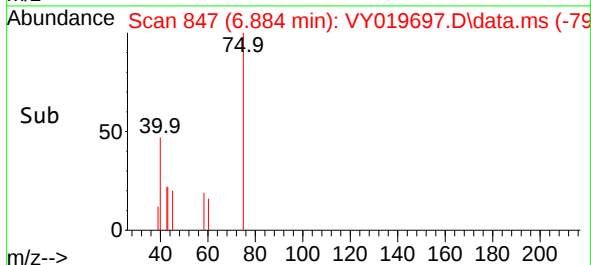
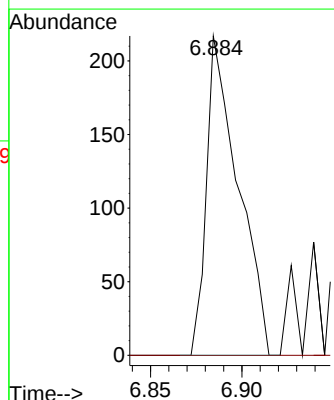
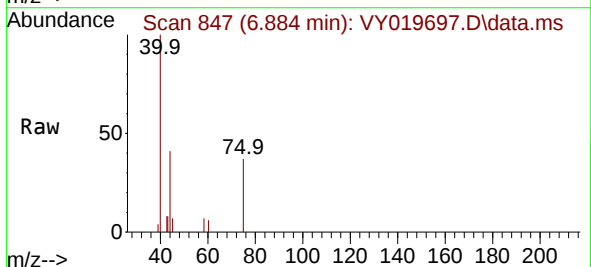


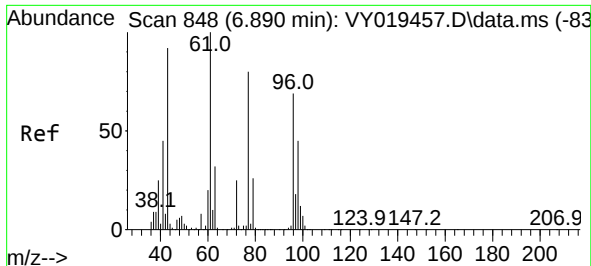
Tgt Ion:	84	Resp:	142
Ion	Ratio	Lower	Upper
84	100		
49	59.5	84.4	126.6#
51	0.0	26.0	39.0#
86	0.0	49.5	74.3#



#25
2-Butanone
Concen: 18.694 ug/l
RT: 6.884 min Scan# 847
Delta R.T. -0.006 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion:	43	Resp:	262
Ion	Ratio	Lower	Upper
43	100		
72	0.0	27.3	40.9#





#27

cis-1,2-Dichloroethene

Concen: 1.308 ug/l

RT: 6.890 min Scan# 84

Delta R.T. 0.000 min

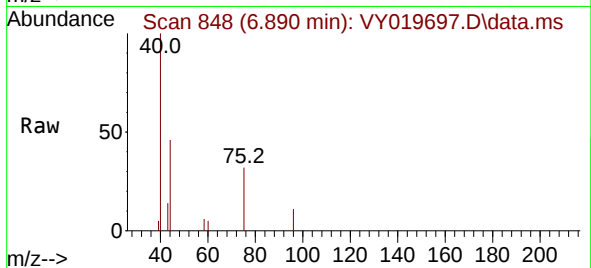
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Acq: 25 Sep 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :



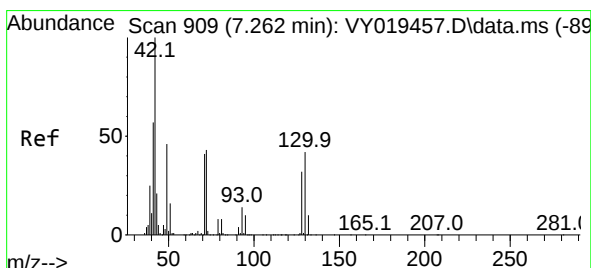
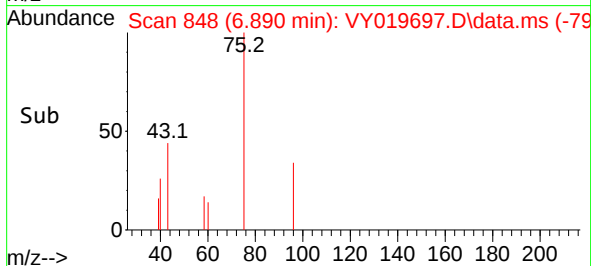
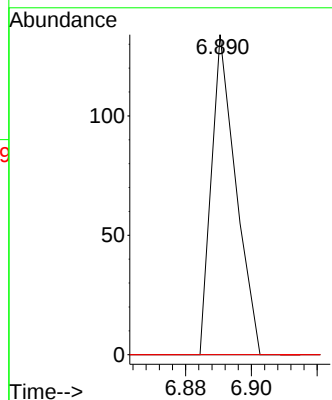
Tgt Ion: 96 Resp: 69

Ion Ratio Lower Upper

96 100

61 0.0 0.0 256.2

98 0.0 0.0 130.0



#29

Tetrahydrofuran

Concen: 6.220 ug/l

RT: 7.268 min Scan# 910

Delta R.T. 0.007 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

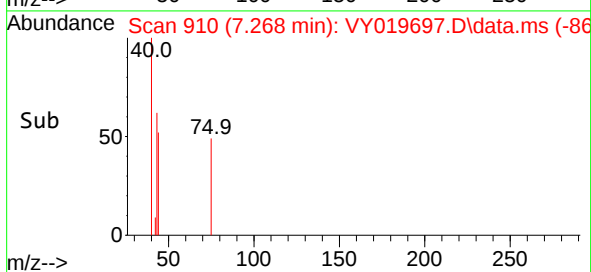
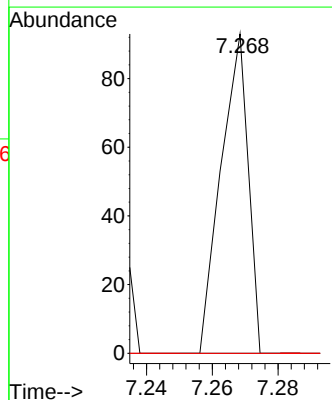
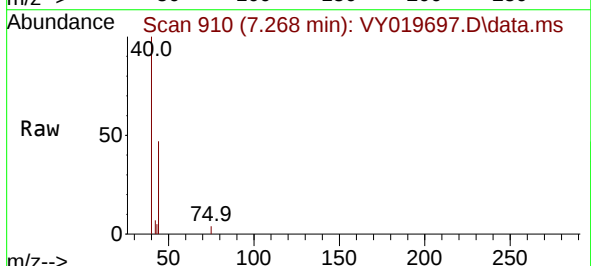
Tgt Ion: 42 Resp: 53

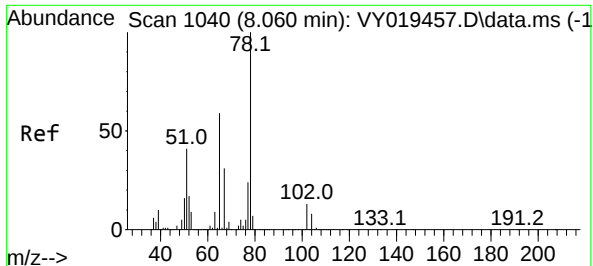
Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

71 0.0 40.8 61.2#





#33

1,2-Dichloroethane-d4

Concen: 78.862 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

Instrument :

MSVOA_Y

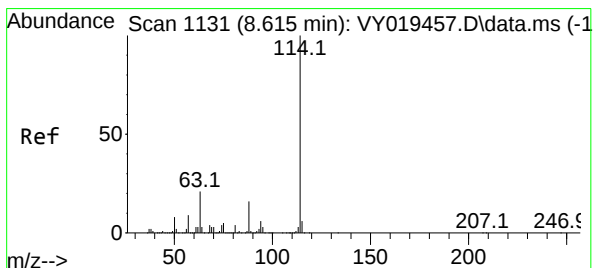
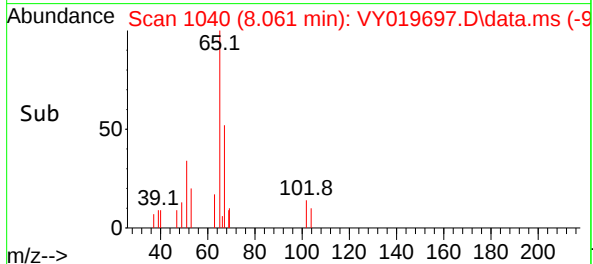
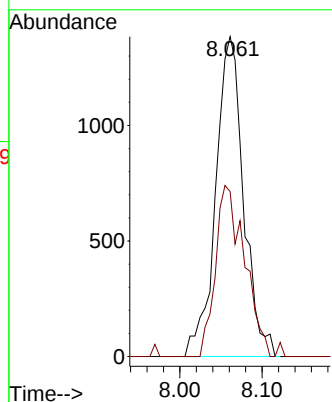
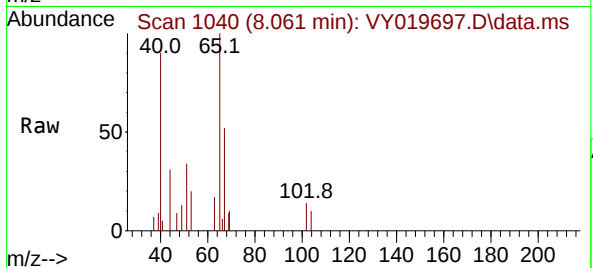
ClientSampleId :

Tgt Ion: 65 Resp: 3262

Ion Ratio Lower Upper

65 100

67 55.8 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.610 min Scan# 1130

Delta R.T. -0.006 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

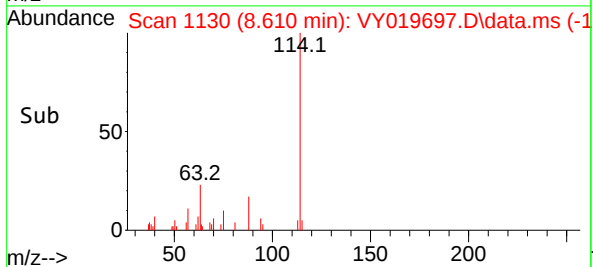
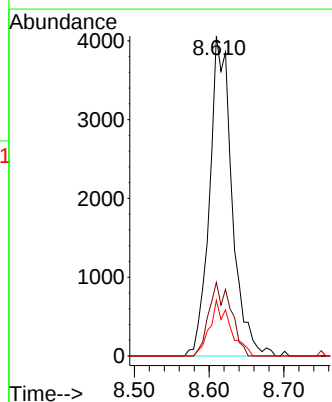
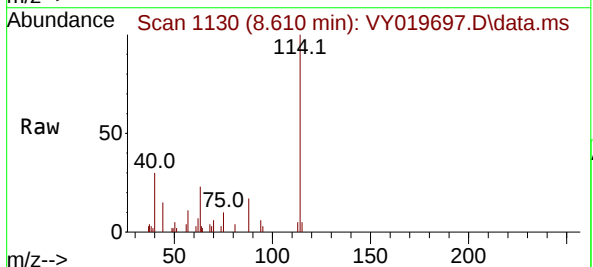
Tgt Ion: 114 Resp: 8477

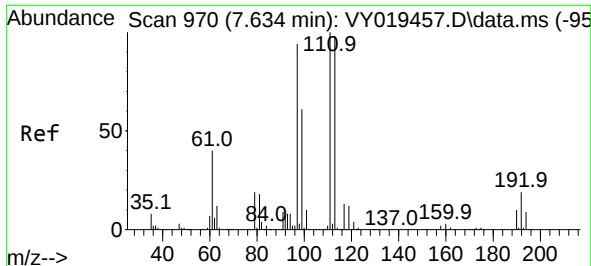
Ion Ratio Lower Upper

114 100

63 23.0 0.0 35.0

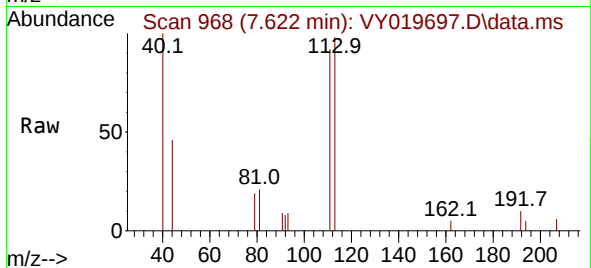
88 17.4 0.0 27.2



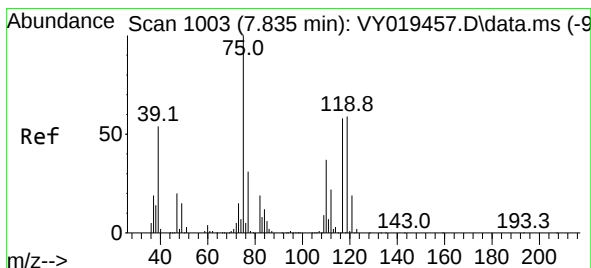
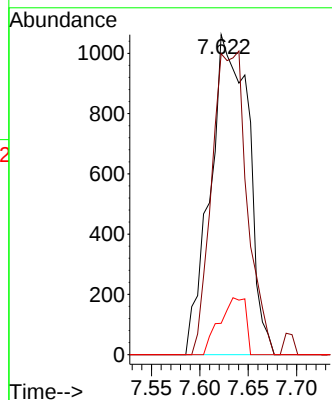
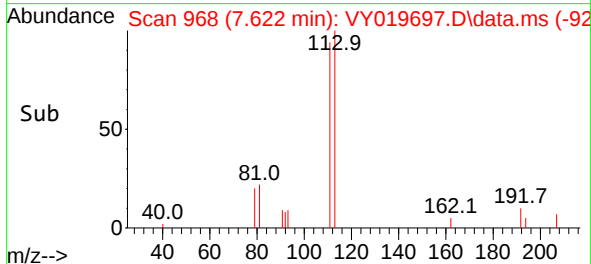


#35
Dibromofluoromethane
Concen: 61.003 ug/l
RT: 7.622 min Scan# 910
Delta R.T. -0.012 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

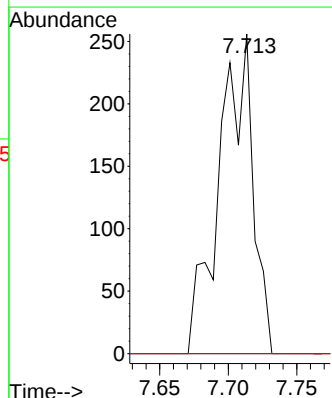
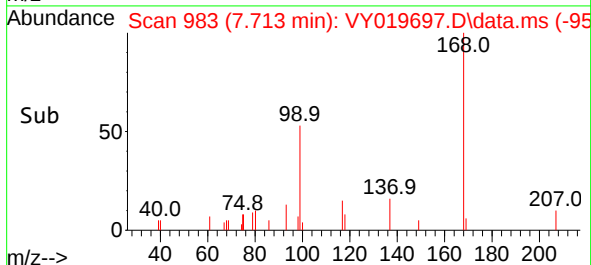
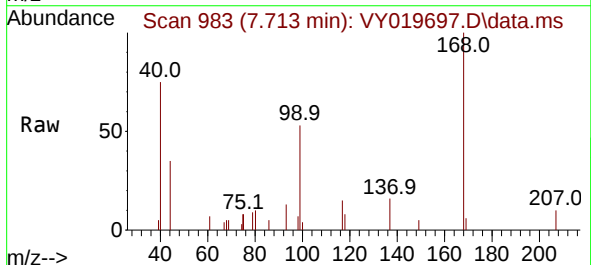


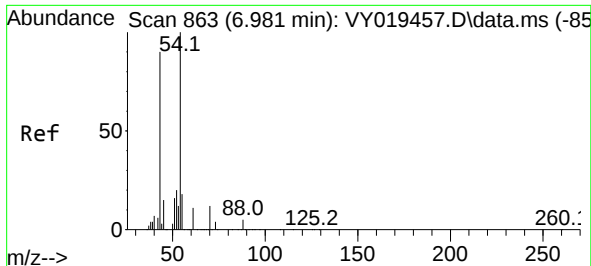
Tgt Ion:113 Resp: 2932
Ion Ratio Lower Upper
113 100
111 86.7 82.2 123.4
192 12.1 15.9 23.9#



#36
1,1-Dichloropropene
Concen: 6.713 ug/l
RT: 7.713 min Scan# 983
Delta R.T. -0.121 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion: 75 Resp: 439
Ion Ratio Lower Upper
75 100
110 0.0 19.0 57.0#
77 0.0 25.3 37.9#





#37

Ethyl Acetate

Concen: 3.044 ug/l

RT: 6.951 min Scan# 81

Delta R.T. -0.030 min

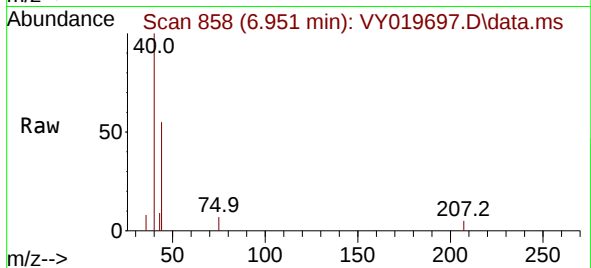
Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

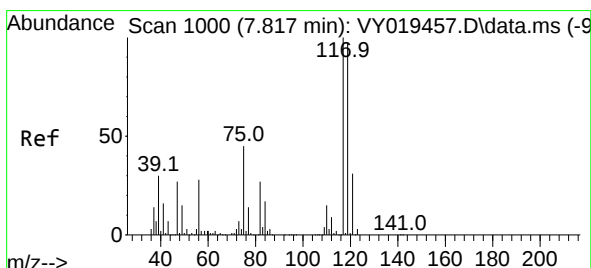
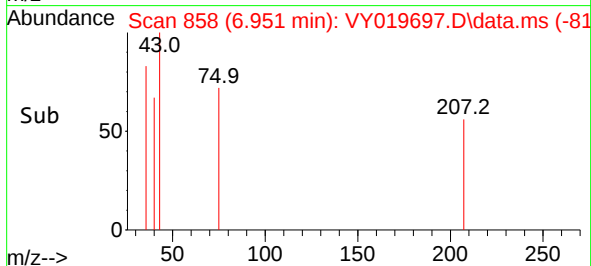
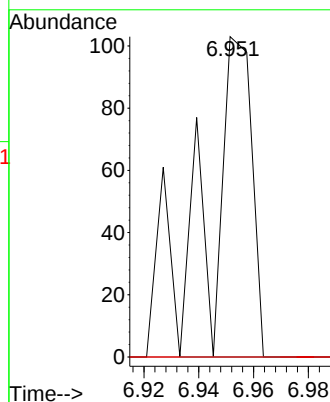
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	43	Resp:	102
Ion	Ratio	Lower	Upper
43	100		
61	0.0	12.6	19.0#
70	0.0	7.8	11.8#



#38

Carbon Tetrachloride

Concen: 6.875 ug/l

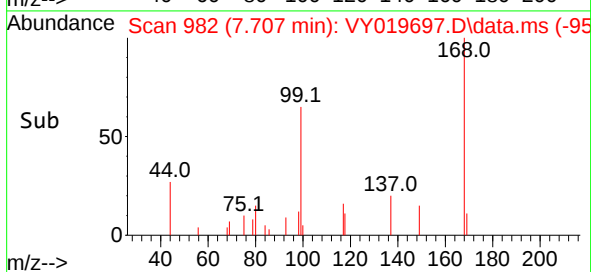
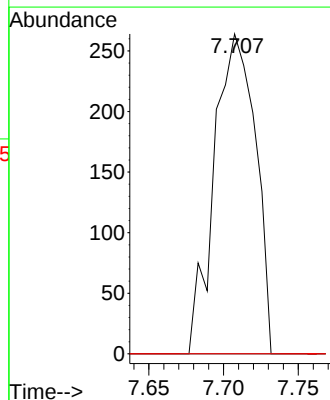
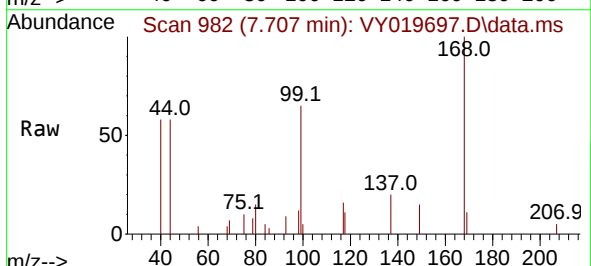
RT: 7.707 min Scan# 982

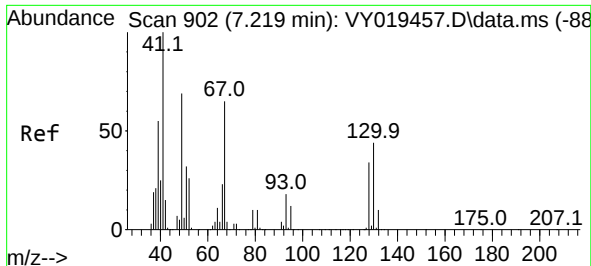
Delta R.T. -0.109 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

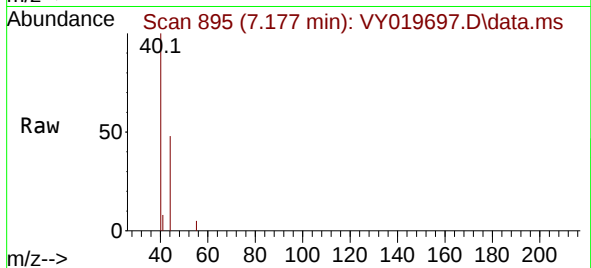
Tgt Ion:	117	Resp:	507
Ion	Ratio	Lower	Upper
117	100		
119	0.0	75.8	113.6#
121	0.0	24.0	36.0#



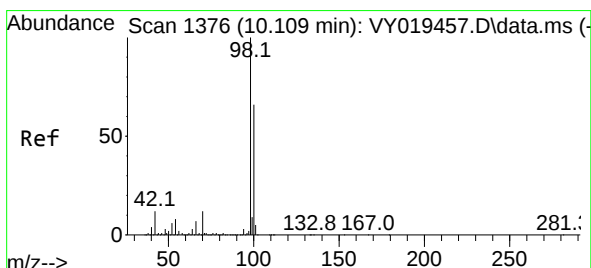
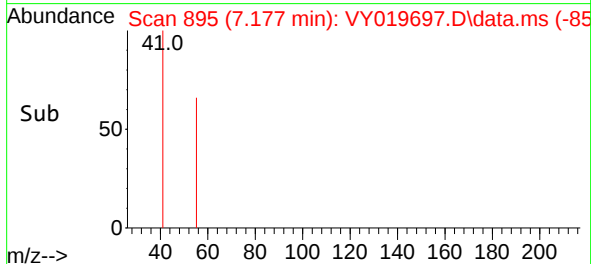
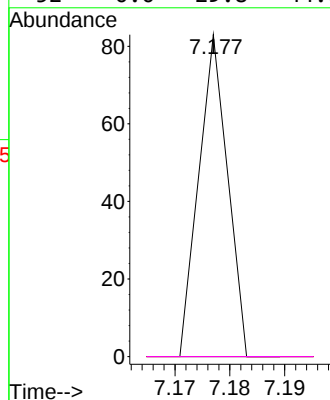


#41
Methacrylonitrile
Concen: 1.536 ug/l
RT: 7.177 min Scan# 895
Delta R.T. -0.042 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

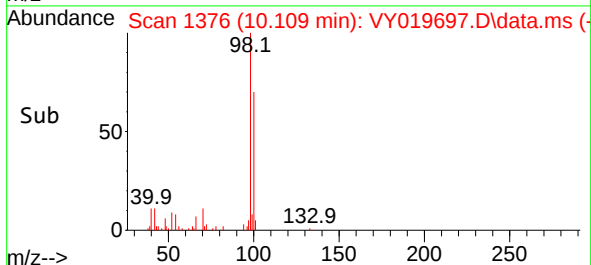
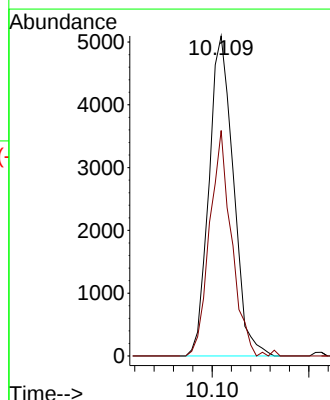
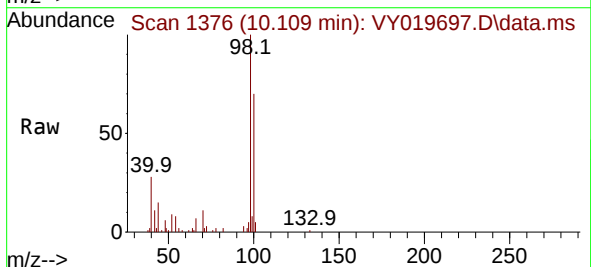


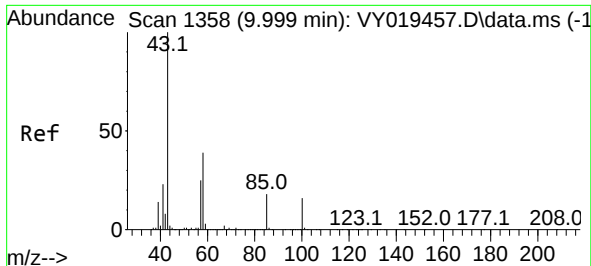
Tgt Ion:	41	Resp:	30
Ion	Ratio	Lower	Upper
41	100		
39	0.0	48.0	72.0#
67	0.0	75.1	112.7#
52	0.0	29.8	44.6#



#50
Toluene-d8
Concen: 50.328 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.000 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion:	98	Resp:	8947
Ion	Ratio	Lower	Upper
98	100		
100	63.0	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 1.835 ug/l

RT: 10.006 min Scan# 11

Delta R.T. 0.007 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

Instrument :

MSVOA_Y

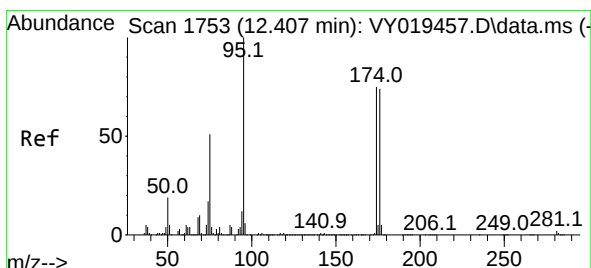
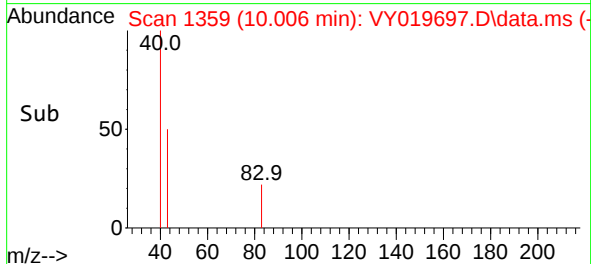
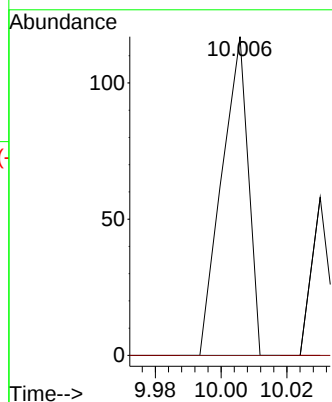
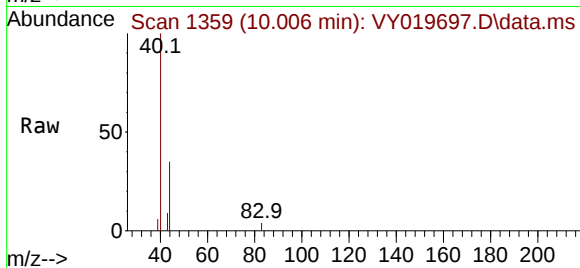
ClientSampleId :

Tgt Ion: 43 Resp: 65

Ion Ratio Lower Upper

43 100

58 0.0 35.7 53.5#



#62

4-Bromofluorobenzene

Concen: 15.185 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.006 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

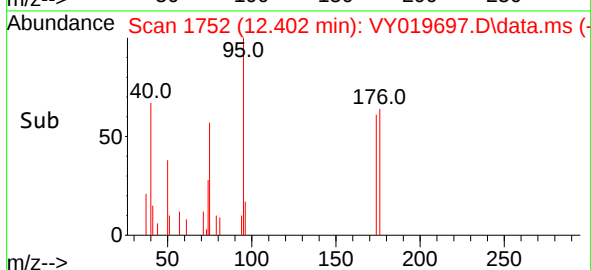
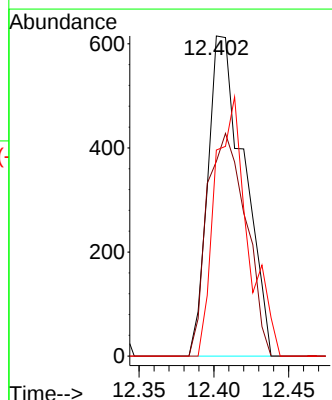
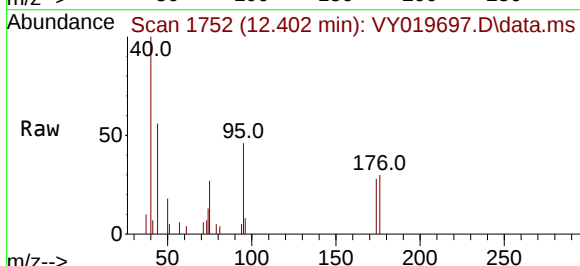
Tgt Ion: 95 Resp: 1038

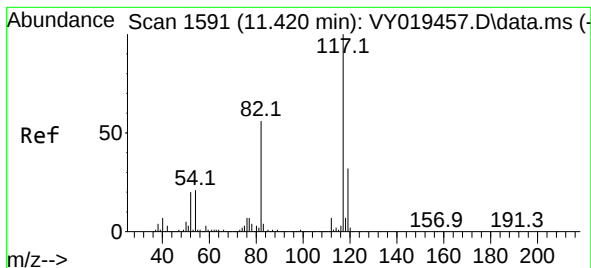
Ion Ratio Lower Upper

95 100

174 74.9 0.0 175.6

176 72.8 0.0 171.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019697.D

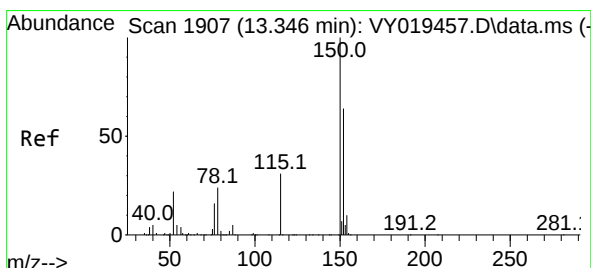
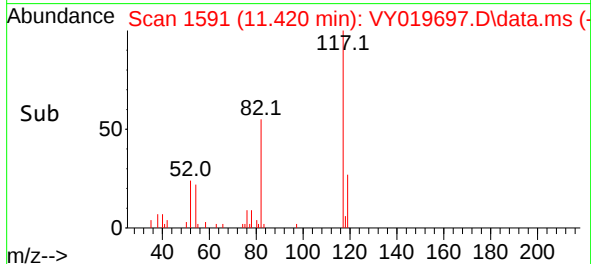
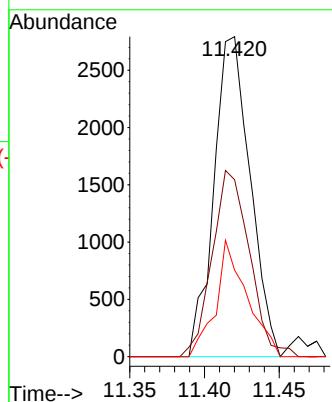
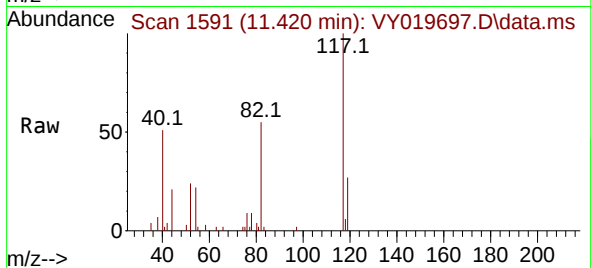
Acq: 25 Sep 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	117	Resp:	4716
Ion	Ratio	Lower	Upper
117	100		
82	55.3	42.4	63.6
119	27.0	25.9	38.9



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

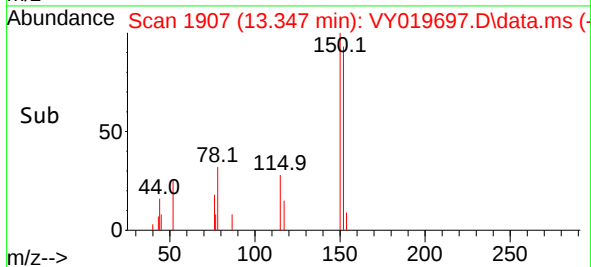
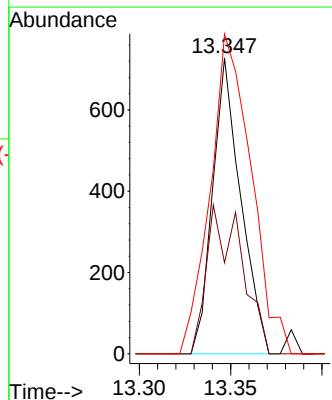
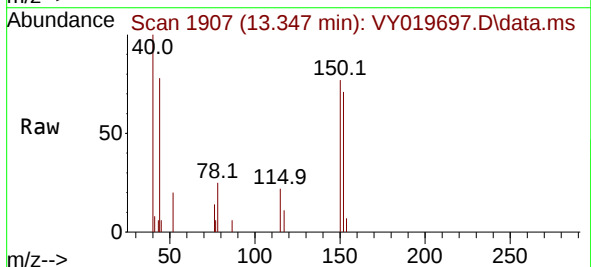
RT: 13.347 min Scan# 1907

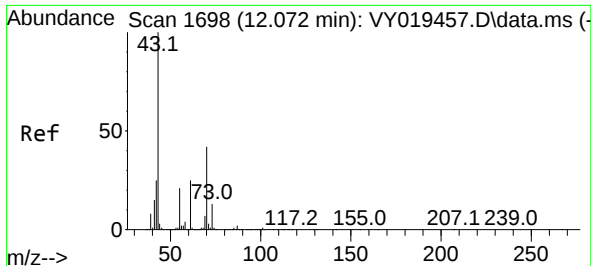
Delta R.T. 0.000 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

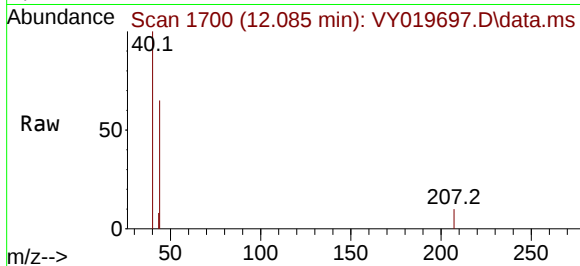
Tgt Ion:	152	Resp:	779
Ion	Ratio	Lower	Upper
152	100		
115	62.6	28.2	84.7
150	157.4	0.0	345.6



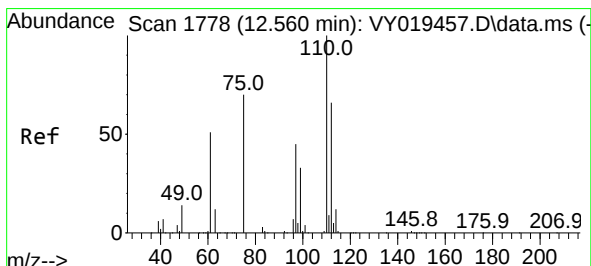
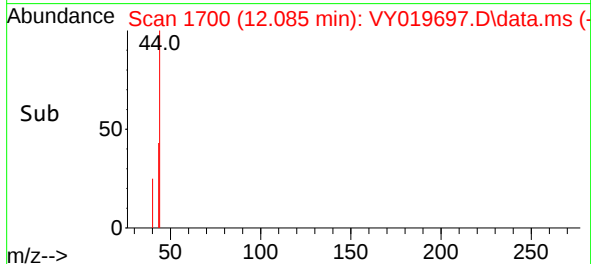
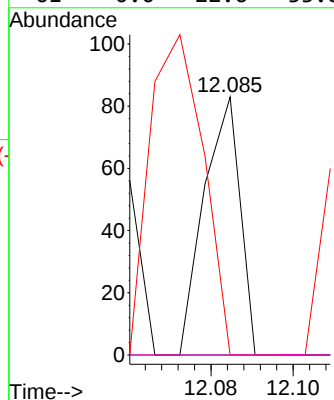


#74
N-amy1 acetate
Concen: 3.318 ug/l
RT: 12.085 min Scan# 11
Delta R.T. 0.013 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Instrument :
MSVOA_Y
ClientSampleId :

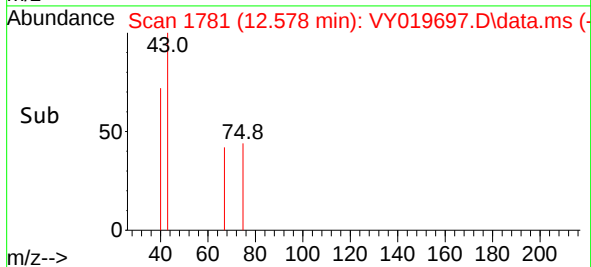
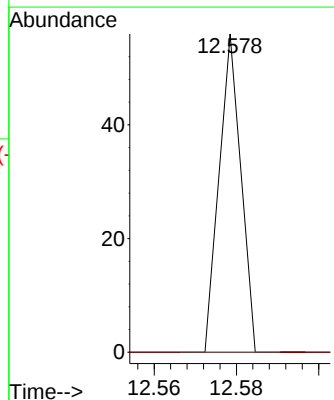
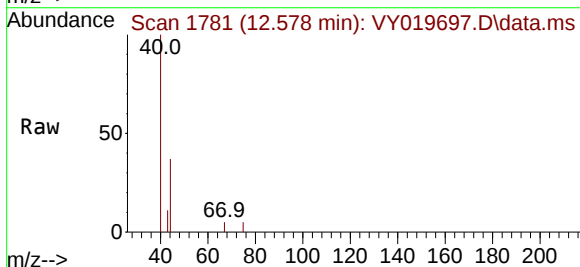


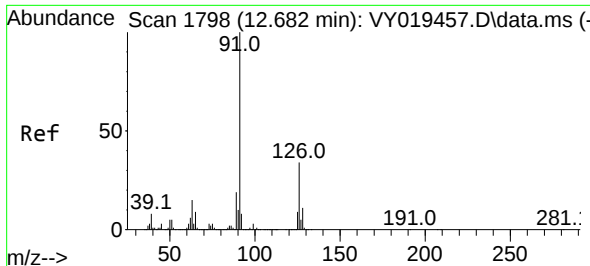
Tgt Ion: 43	Resp: 51
Ion Ratio	Lower Upper
43	100
70	0.0 41.4 62.2#
55	182.4 23.3 34.9#
61	0.0 22.6 33.8#



#76
1,2,3-Trichloropropane
Concen: 2.739 ug/l
RT: 12.578 min Scan# 1781
Delta R.T. 0.019 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion: 75	Resp: 20
Ion Ratio	Lower Upper
75	100
77	0.0 0.0 0.0

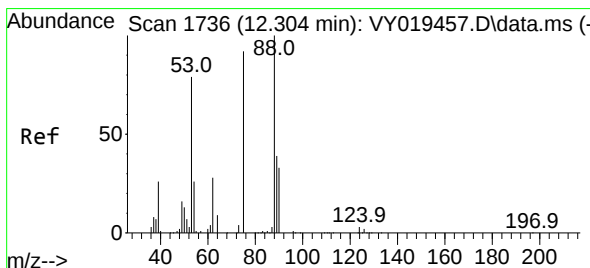
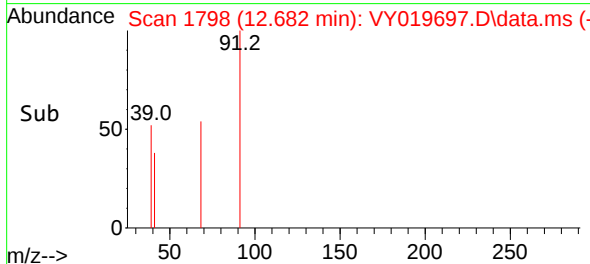
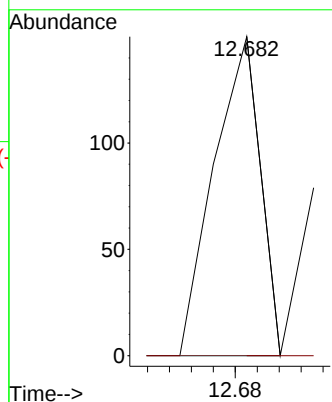
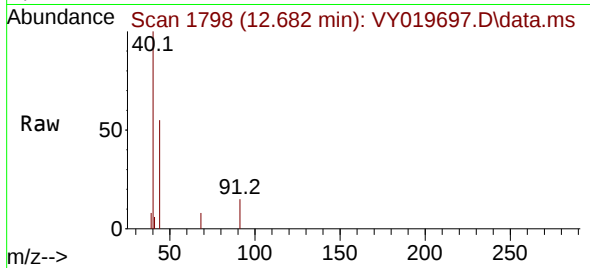




#79
2-Chlorotoluene
Concen: 2.254 ug/l
RT: 12.682 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

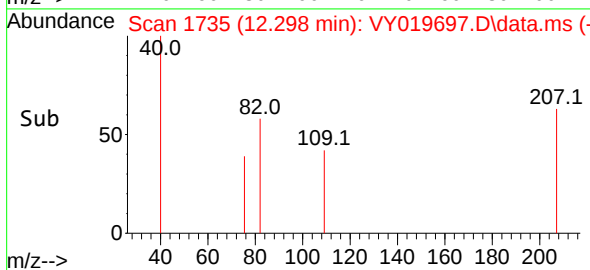
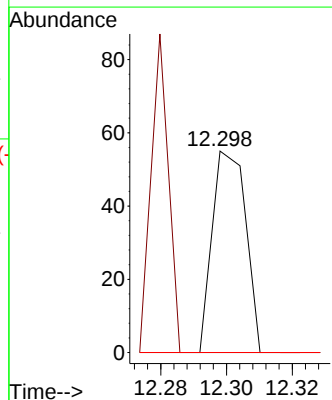
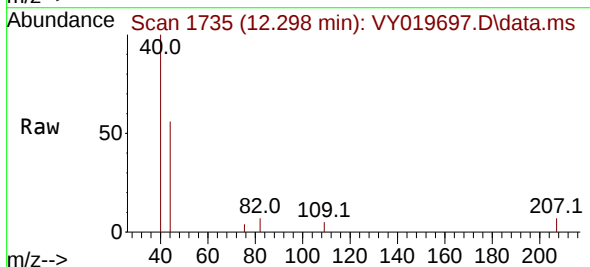
Instrument :
MSVOA_Y
ClientSampleId :

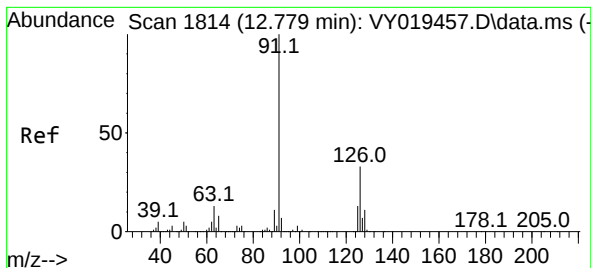
Tgt Ion: 91 Resp: 88
Ion Ratio Lower Upper
91 100
126 0.0 17.8 53.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 10.254 ug/l
RT: 12.298 min Scan# 1735
Delta R.T. -0.006 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion: 75 Resp: 39
Ion Ratio Lower Upper
75 100
53 82.1 66.8 100.2
89 0.0 35.8 53.6#

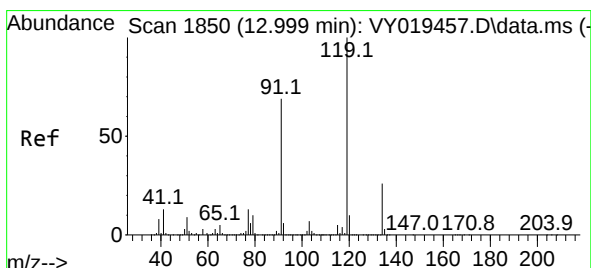
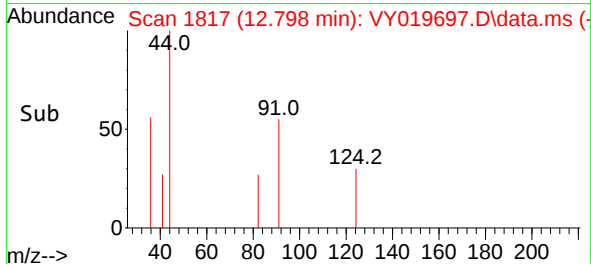
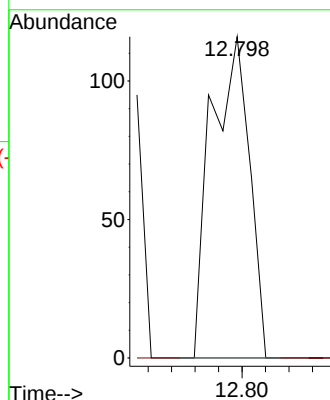
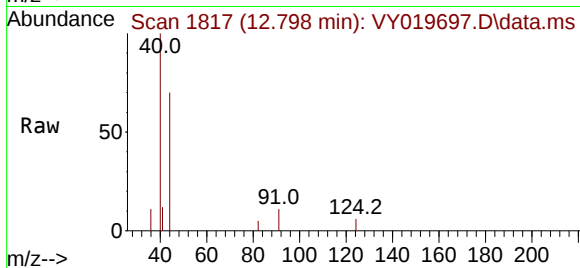




#82
4-Chlorotoluene
Concen: 3.264 ug/l
RT: 12.798 min Scan# 1814
Delta R.T. 0.019 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

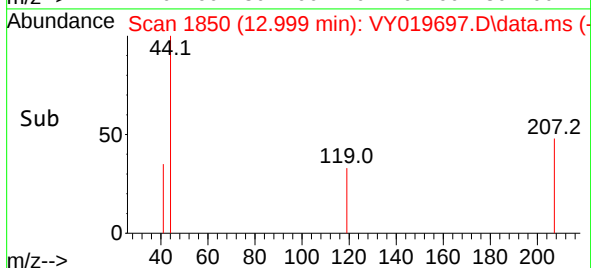
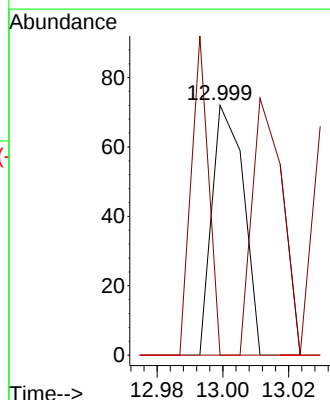
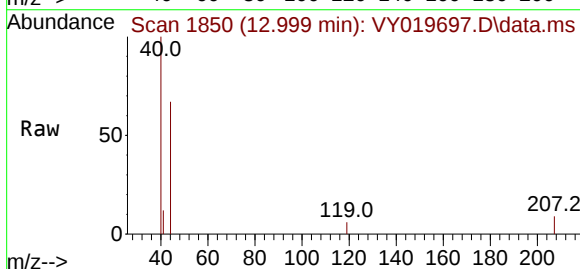
Instrument :
MSVOA_Y
ClientSampleId :

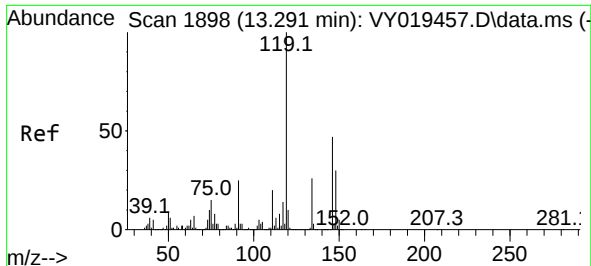
Tgt Ion: 91 Resp: 131
Ion Ratio Lower Upper
91 100
126 0.0 17.6 52.9#



#83
tert-Butylbenzene
Concen: 1.154 ug/l
RT: 12.999 min Scan# 1850
Delta R.T. 0.000 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

Tgt Ion: 119 Resp: 48
Ion Ratio Lower Upper
119 100
91 70.8 31.3 93.8
134 0.0 13.4 40.1#





#87

1,3-Dichlorobenzene

Concen: 1.848 ug/l

RT: 13.280 min Scan# 1896

Delta R.T. -0.012 min

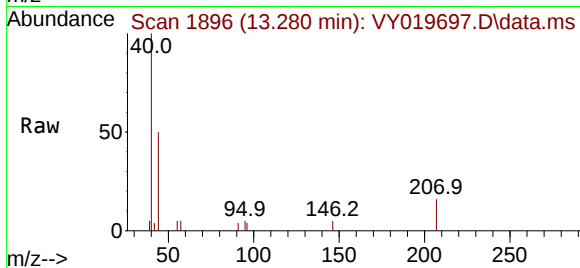
Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

Instrument :

MSVOA_Y

ClientSampleId :



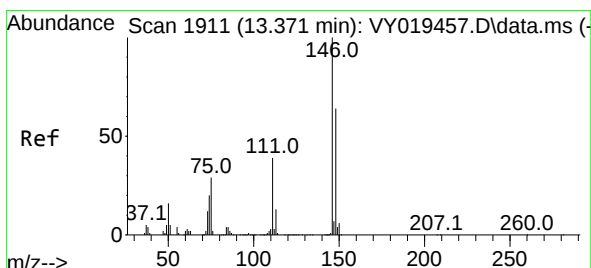
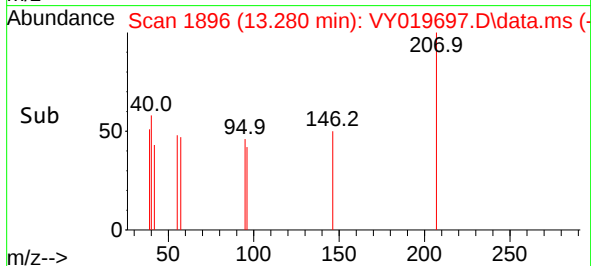
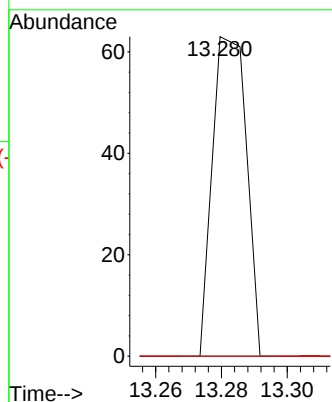
Tgt Ion:146 Resp: 45

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: 1.862 ug/l

RT: 13.280 min Scan# 1896

Delta R.T. -0.091 min

Lab File: VY019697.D

Acq: 25 Sep 2024 16:01

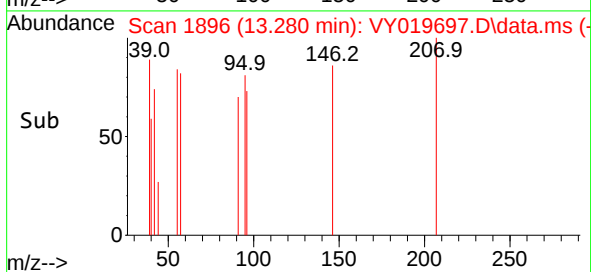
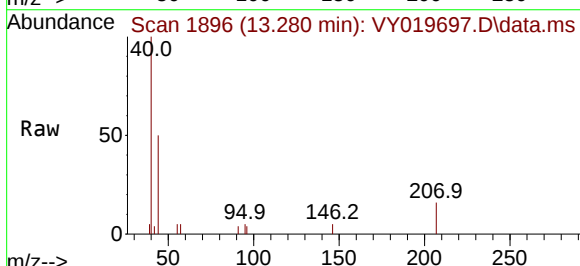
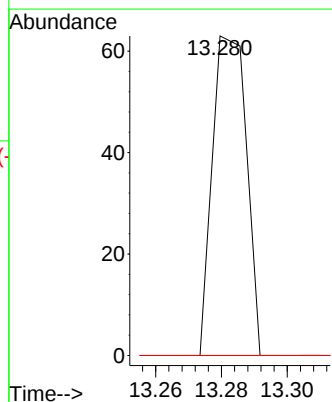
Tgt Ion:146 Resp: 45

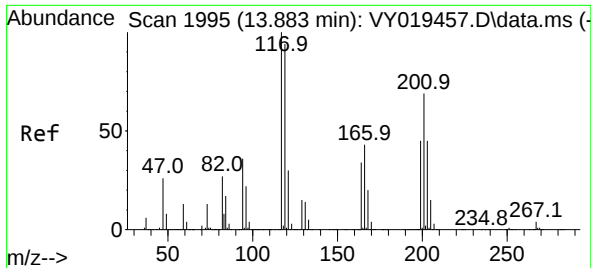
Ion Ratio Lower Upper

146 100

111 0.0 18.4 55.4#

148 0.0 32.4 97.2#

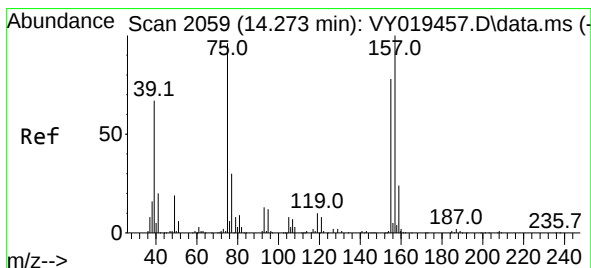
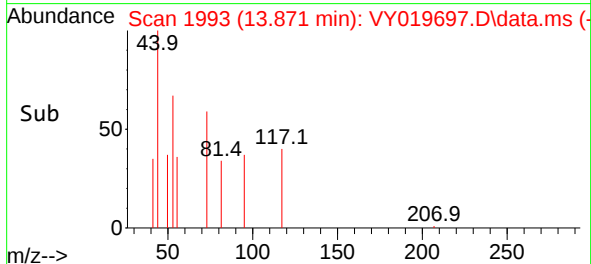
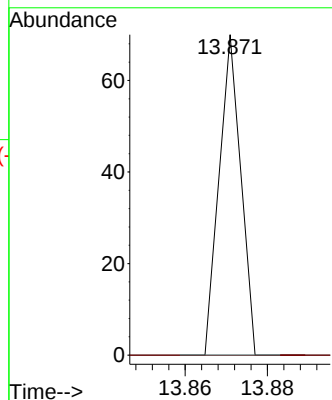
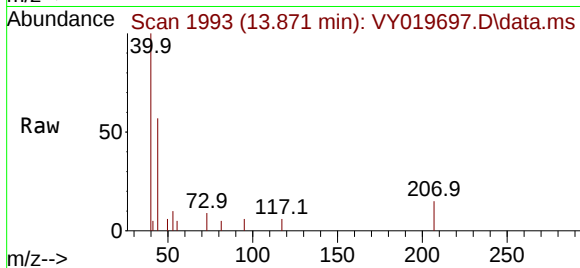




#90
Hexachloroethane
Concen: 2.528 ug/l
RT: 13.871 min Scan# 1993
Delta R.T. -0.012 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

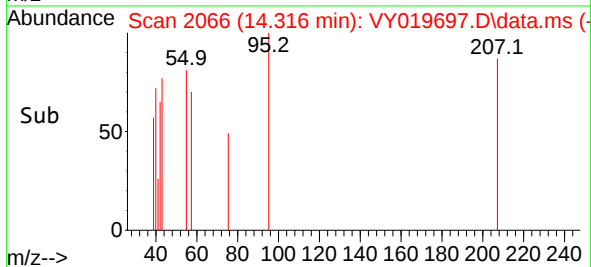
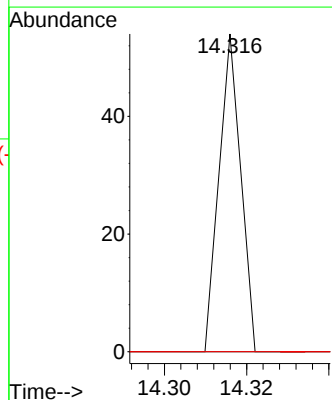
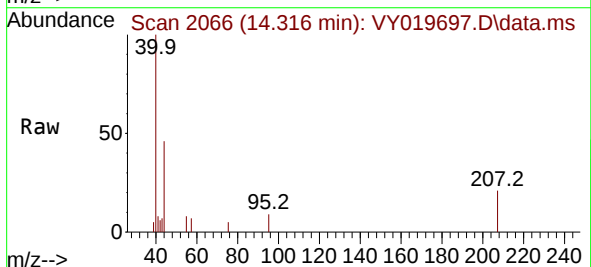
Instrument :
MSVOA_Y
ClientSampleId :

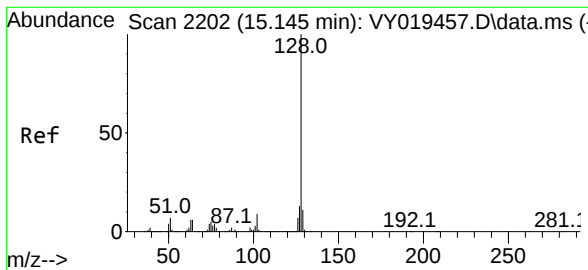
Tgt Ion:117 Resp: 26
Ion Ratio Lower Upper
117 100
201 0.0 37.4 112.2#



#92
1,2-Dibromo-3-Chloropropane
Concen: 11.963 ug/l
RT: 14.316 min Scan# 2066
Delta R.T. 0.043 min
Lab File: VY019697.D
Acq: 25 Sep 2024 16:01

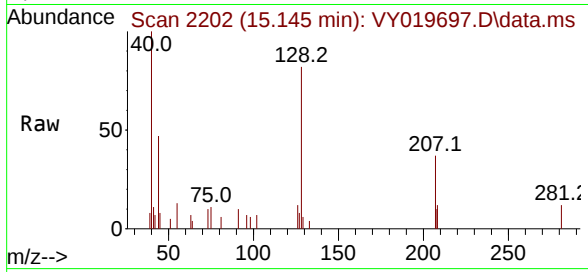
Tgt Ion: 75 Resp: 20
Ion Ratio Lower Upper
75 100
155 0.0 48.6 145.8#
157 0.0 62.7 188.2#





#95
 Naphthalene
 Concen: 70.454 ug/l
 RT: 15.145 min Scan# 21
 Delta R.T. 0.000 min
 Lab File: VY019697.D
 Acq: 25 Sep 2024 16:01

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:	128	Resp:	1865
Ion Ratio	100	Lower	Upper
127	0.0	10.6	16.0#
129	10.4	8.6	13.0

