

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY100924\
 Data File : VY019841.D
 Acq On : 09 Oct 2024 18:38
 Operator : SY/MD
 Sample : P4344-01
 Misc : 4.99g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Oct 10 05:41:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y100924S.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 10 05:30:07 2024
 Response via : Initial Calibration

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

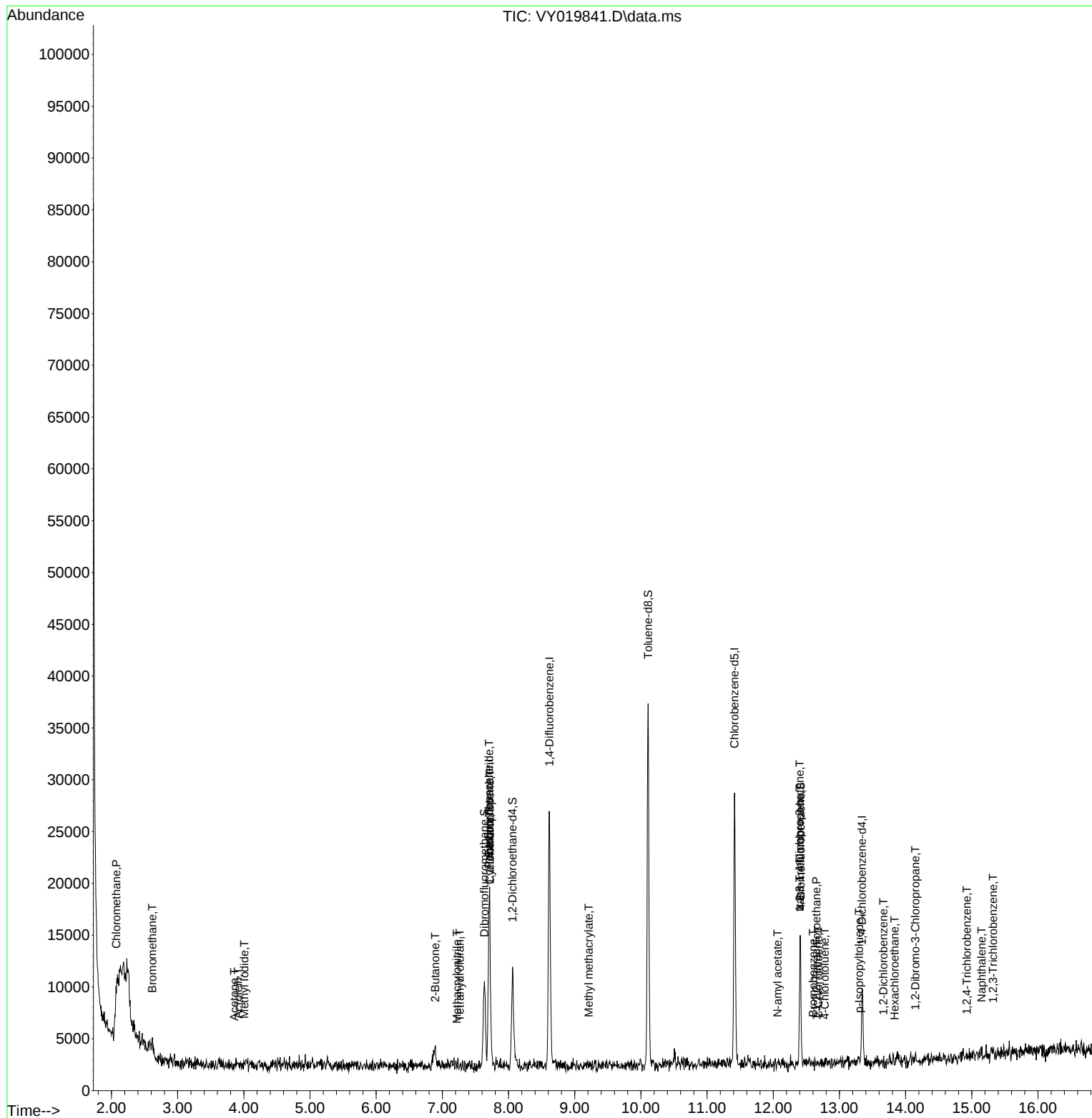
Internal Standards						
1) Pentafluorobenzene	7.701	168	11392	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	20314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	13361	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.340	152	1732	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	7061	50.339	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 100.680%	
35) Dibromofluoromethane	7.634	113	5881	43.872	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 87.740%	
50) Toluene-d8	10.109	98	23280	47.028	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	= 94.060%	
62) 4-Bromofluorobenzene	12.414	95	3863	21.597	ug/l	0.01
Spiked Amount	50.000	Range	29 - 146	Recovery	= 43.200%	
Target Compounds						Qvalue
3) Chloromethane	2.074	50	382	2.768	ug/l #	87
5) Bromomethane	2.617	94	481	5.003	ug/l	96
10) Methyl Iodide	4.007	142	169	1.271	ug/l #	76
13) Acrolein	3.915	56	23	2.232	ug/l #	14
16) Acetone	3.854	43	406	11.119	ug/l #	45
25) 2-Butanone	6.890	43	176	3.601	ug/l #	51
29) Tetrahydrofuran	7.262	42	115	4.121	ug/l #	49
31) Cyclohexane	7.719	56	253	1.079	ug/l #	12
36) 1,1-Dichloropropene	7.719	75	1300	6.731	ug/l #	43
38) Carbon Tetrachloride	7.707	117	1057	5.105	ug/l #	20
41) Methacrylonitrile	7.220	41	77	1.413	ug/l #	25
48) Methyl methacrylate	9.213	41	251	2.778	ug/l #	34
74) N-amyl acetate	12.066	43	86	2.229	ug/l #	14
75) 1,1,2,2-Tetrachloroethane	12.651	83	52	2.009	ug/l #	1
76) 1,2,3-Trichloropropane	12.402	75	2241	124.259	ug/l #	100
77) Bromobenzene	12.603	156	71	2.297	ug/l #	1
79) 2-Chlorotoluene	12.682	91	106	1.050	ug/l #	43
81) trans-1,4-Dichloro-2-b...	12.402	75	2241	266.596	ug/l #	8
82) 4-Chlorotoluene	12.780	91	154	1.492	ug/l #	42
86) p-Isopropyltoluene	13.298	119	167	1.306	ug/l #	50
90) Hexachloroethane	13.834	117	35	1.406	ug/l #	17
91) 1,2-Dichlorobenzene	13.663	146	60	1.094	ug/l #	3
92) 1,2-Dibromo-3-Chloropr...	14.145	75	20	4.841	ug/l #	5
93) 1,2,4-Trichlorobenzene	14.925	180	52	1.691	ug/l #	1
95) Naphthalene	15.151	128	481	8.291	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.322	180	148	5.692	ug/l #	70

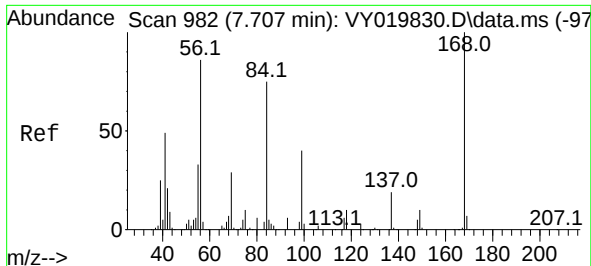
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Thu Oct 10 05:30:07 2024
Response via : Initial Calibration

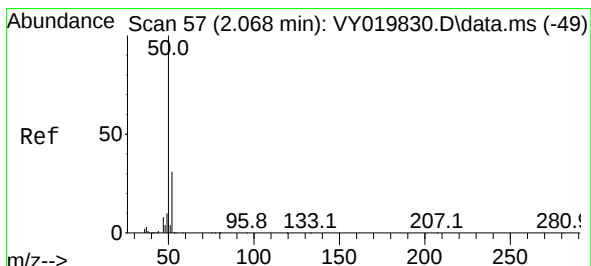
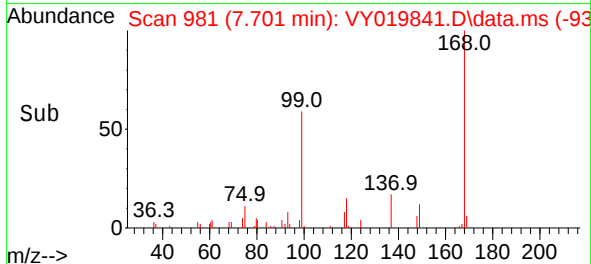
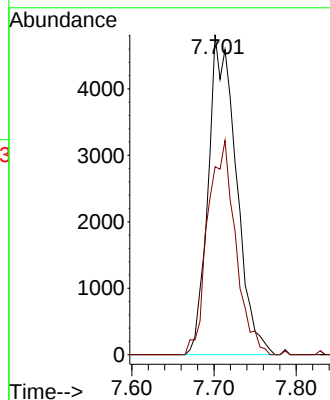
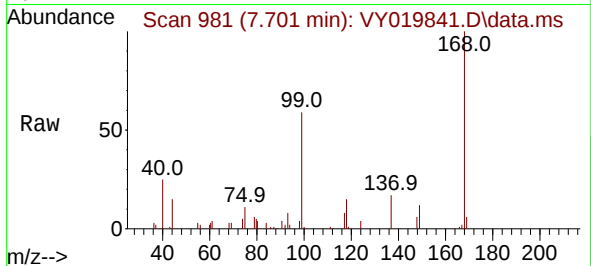




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.701 min Scan# 90
Delta R.T. -0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

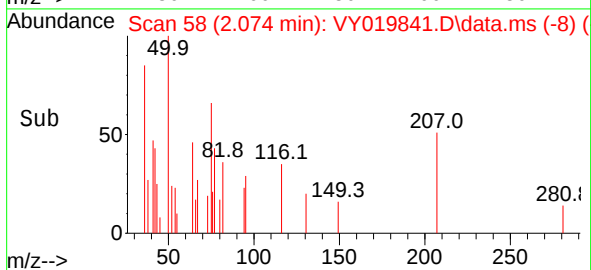
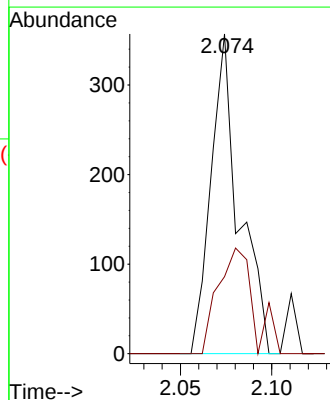
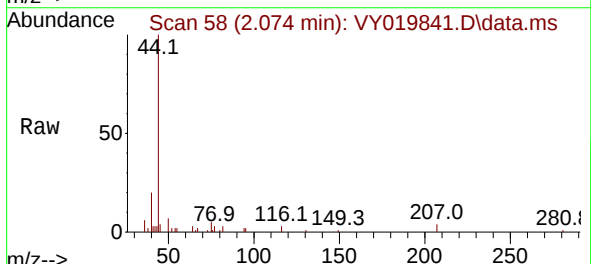
Instrument :
MSVOA_Y
ClientSampleId :

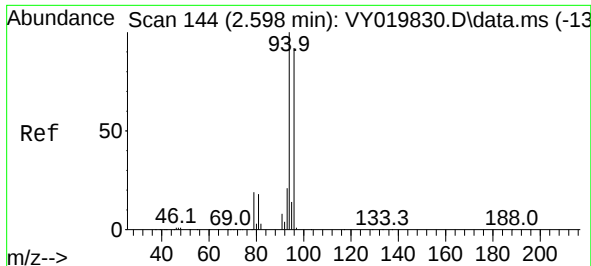
Tgt Ion:168 Resp: 11392
Ion Ratio Lower Upper
168 100
99 58.8 52.6 78.8



#3
Chloromethane
Concen: 2.768 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion: 50 Resp: 382
Ion Ratio Lower Upper
50 100
52 24.1 25.1 37.7#





#5

Bromomethane

Concen: 5.003 ug/l

RT: 2.617 min Scan# 144

Delta R.T. 0.018 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

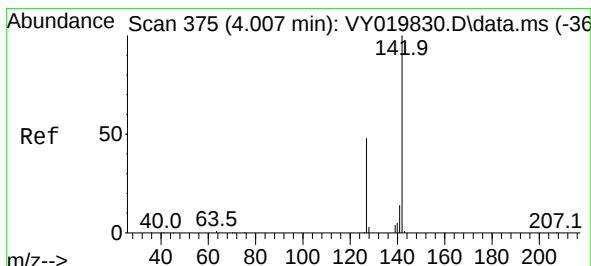
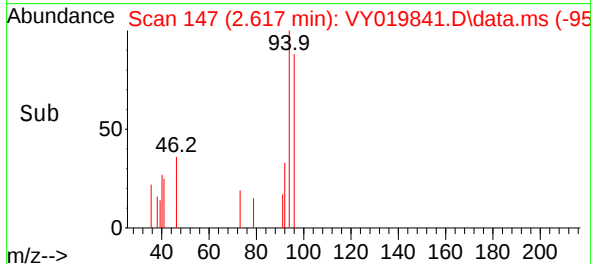
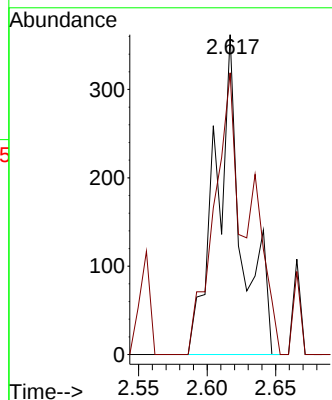
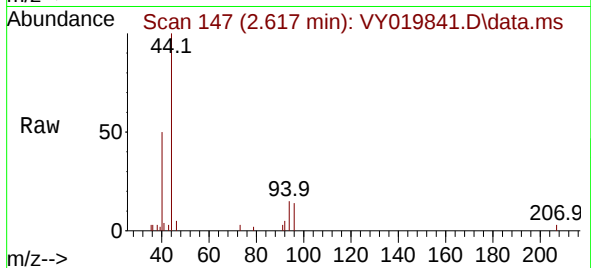
ClientSampleId :

Tgt Ion: 94 Resp: 481

Ion Ratio Lower Upper

94 100

96 88.1 73.6 110.4



#10

Methyl Iodide

Concen: 1.271 ug/l

RT: 4.007 min Scan# 375

Delta R.T. 0.000 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

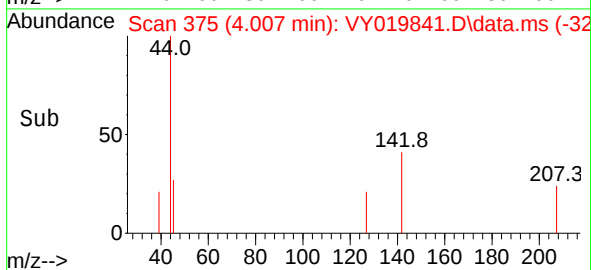
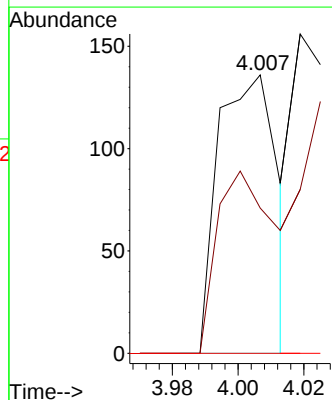
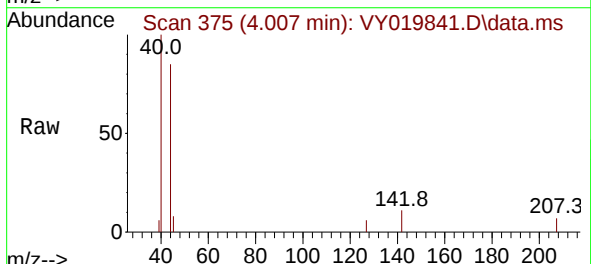
Tgt Ion:142 Resp: 169

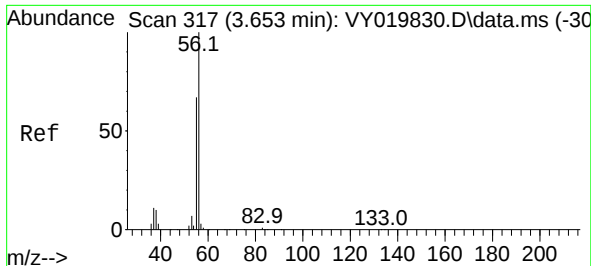
Ion Ratio Lower Upper

142 100

127 63.3 39.4 59.2#

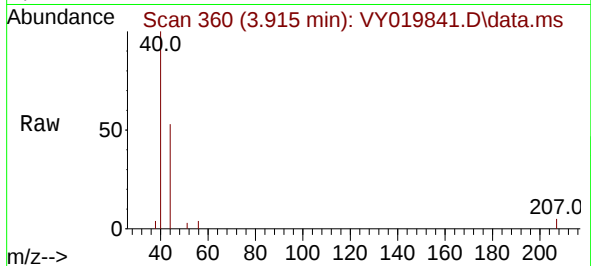
141 0.0 11.7 17.5#



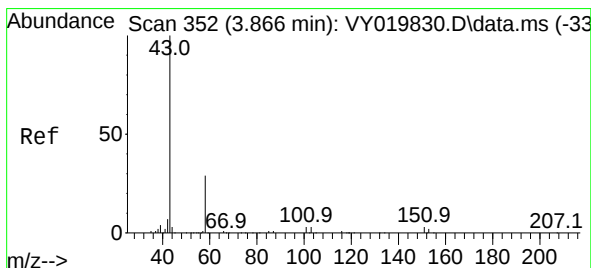
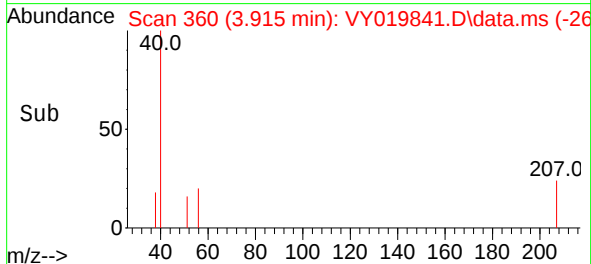
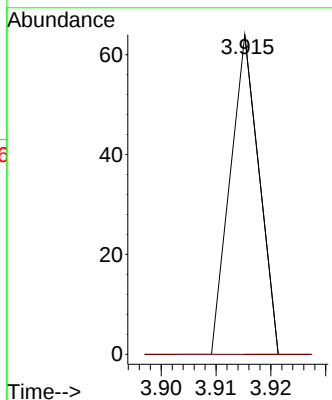


#13
Acrolein
Concen: 2.232 ug/l
RT: 3.915 min Scan# 317
Delta R.T. 0.262 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Instrument :
MSVOA_Y
ClientSampleId :

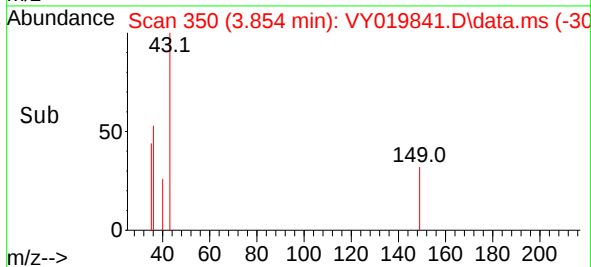
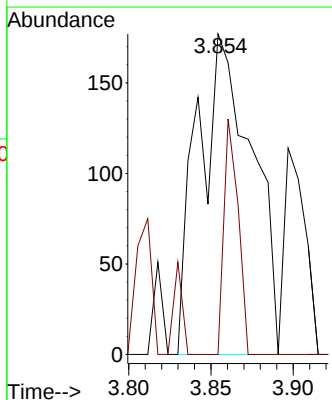
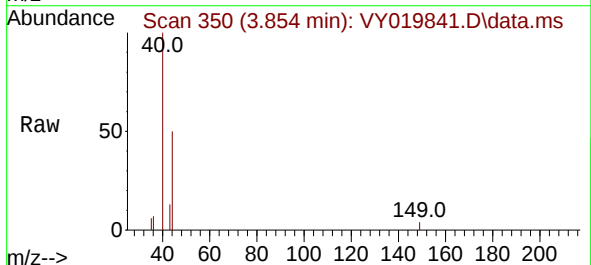


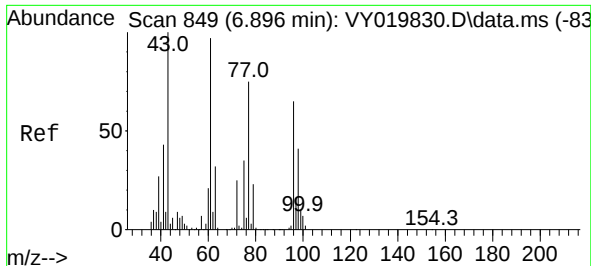
Tgt Ion: 56 Resp: 23
Ion Ratio Lower Upper
56 100
55 0.0 56.9 85.3#



#16
Acetone
Concen: 11.119 ug/l
RT: 3.854 min Scan# 350
Delta R.T. -0.012 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion: 43 Resp: 406
Ion Ratio Lower Upper
43 100
58 0.0 23.8 35.6#

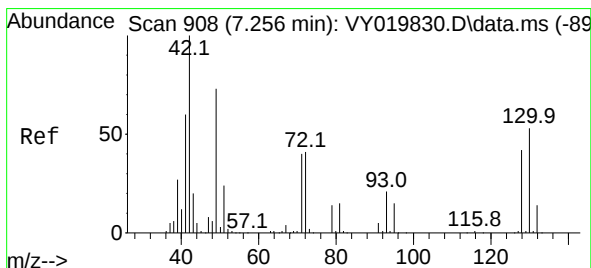
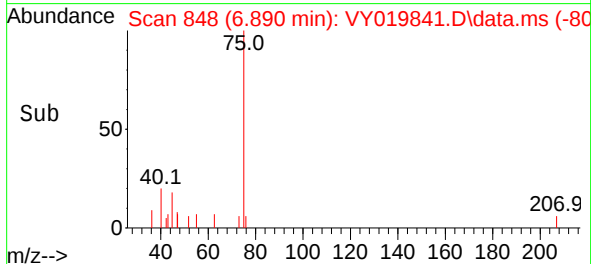
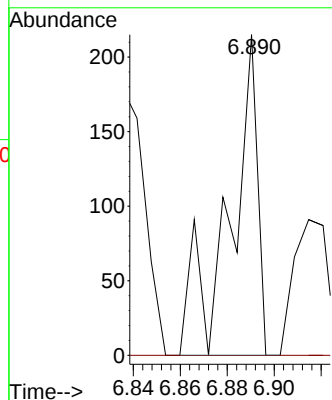
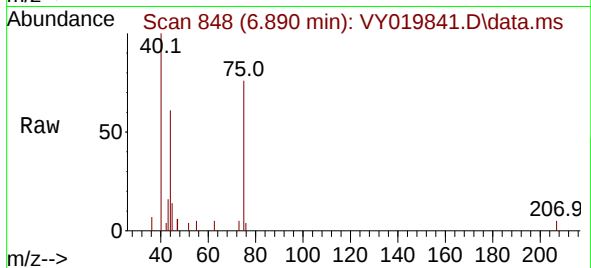




#25
2-Butanone
Concen: 3.601 ug/l
RT: 6.890 min Scan# 849
Delta R.T. -0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

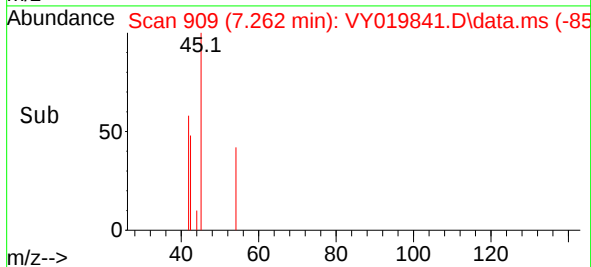
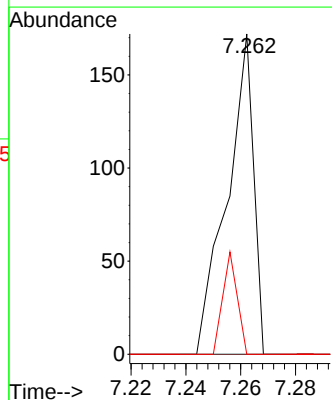
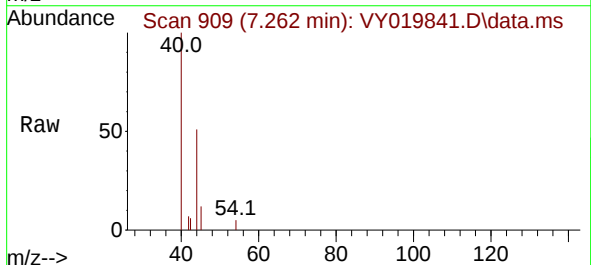
Instrument :
MSVOA_Y
ClientSampleId :

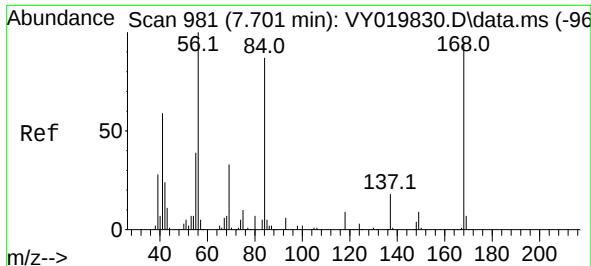
Tgt Ion: 43 Resp: 176
Ion Ratio Lower Upper
43 100
72 0.0 19.8 29.6#



#29
Tetrahydrofuran
Concen: 4.121 ug/l
RT: 7.262 min Scan# 909
Delta R.T. 0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

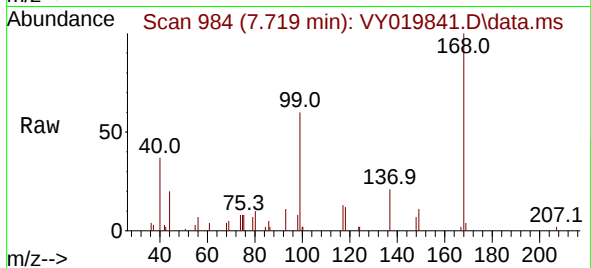
Tgt Ion: 42 Resp: 115
Ion Ratio Lower Upper
42 100
72 0.0 33.4 50.0#
71 17.4 31.6 47.4#



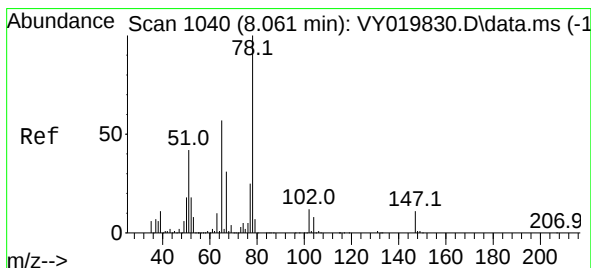
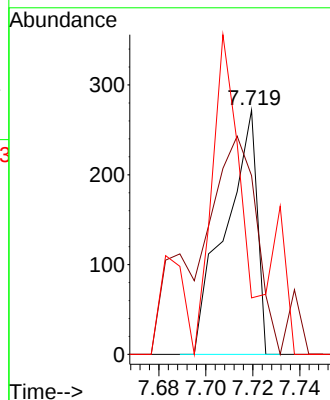
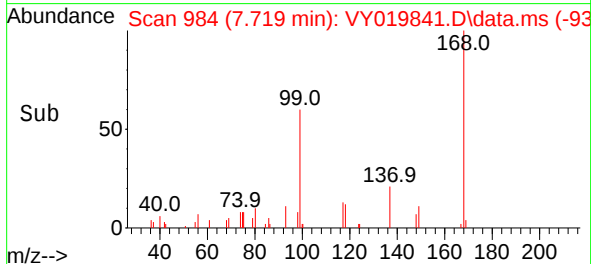


#31
Cyclohexane
Concen: 1.079 ug/l
RT: 7.719 min Scan# 981
Delta R.T. 0.018 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Instrument :
MSVOA_Y
ClientSampleId :

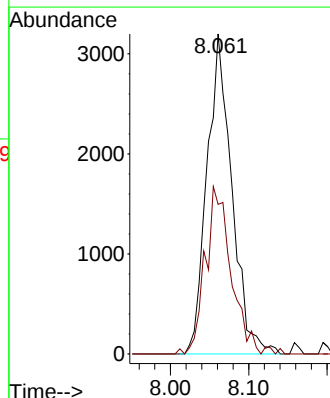
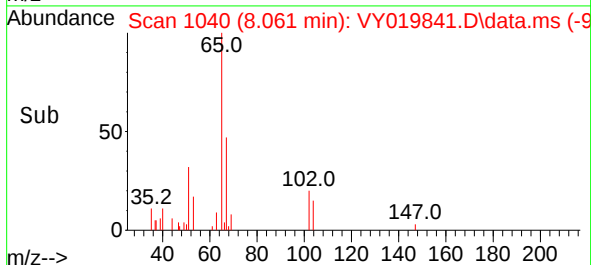
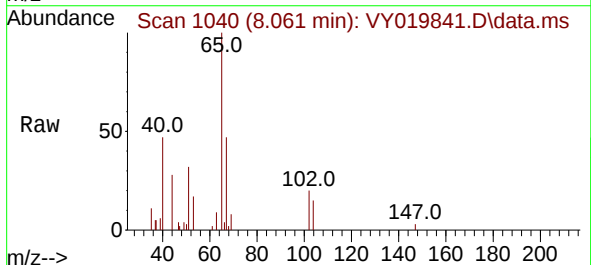


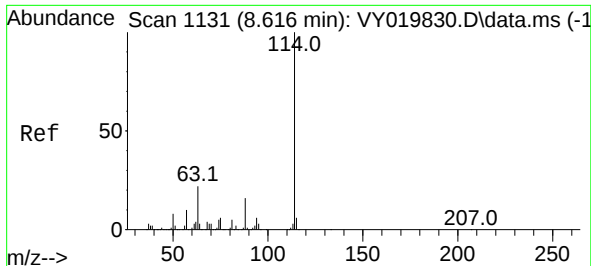
Tgt Ion: 56 Resp: 253
Ion Ratio Lower Upper
56 100
69 73.2 26.6 39.8#
84 0.0 69.6 104.4#



#33
1,2-Dichloroethane-d4
Concen: 50.339 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.000 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion: 65 Resp: 7061
Ion Ratio Lower Upper
65 100
67 53.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

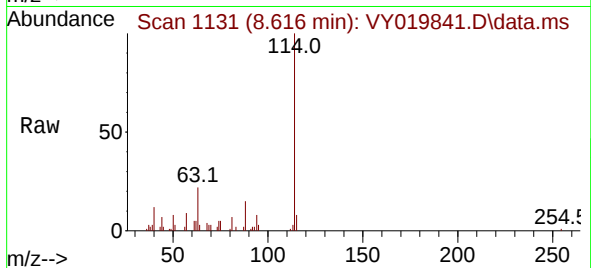
Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

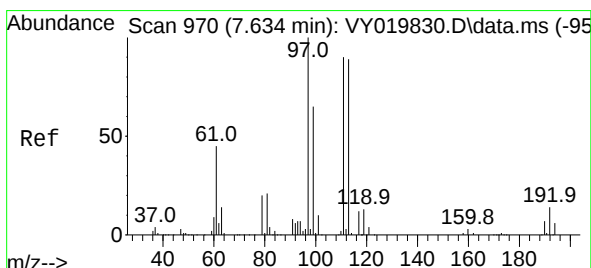
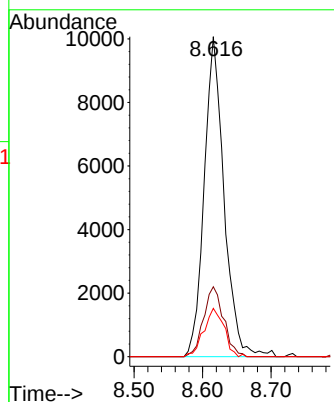
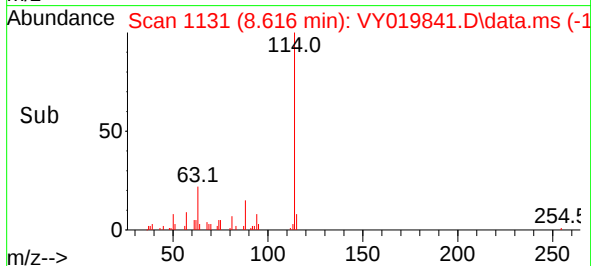
Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion:	114	Resp:	20314
Ion Ratio	Lower	Upper	
114	100		
63	21.9	0.0	43.8
88	15.1	0.0	32.0



#35

Dibromofluoromethane

Concen: 43.872 ug/l

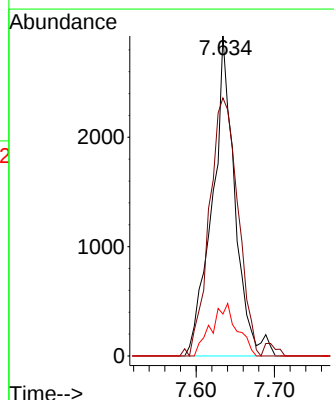
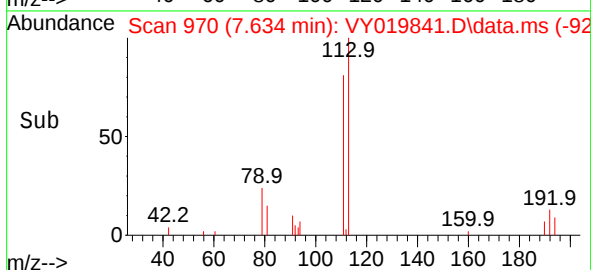
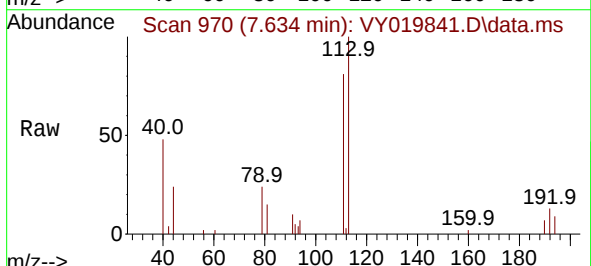
RT: 7.634 min Scan# 970

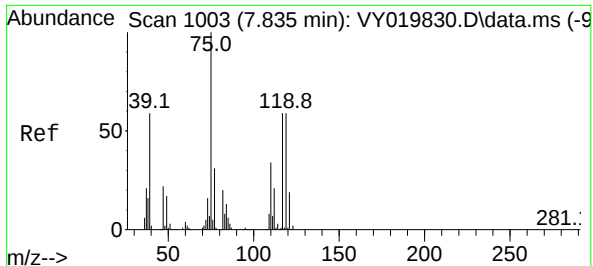
Delta R.T. 0.000 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Tgt Ion:	113	Resp:	5881
Ion Ratio	Lower	Upper	
113	100		
111	101.7	82.9	124.3
192	18.8	13.6	20.4

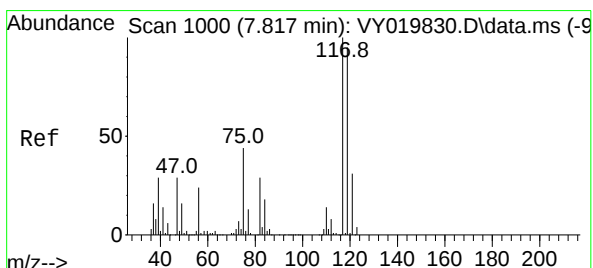
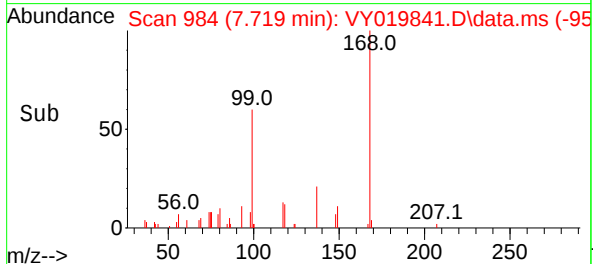
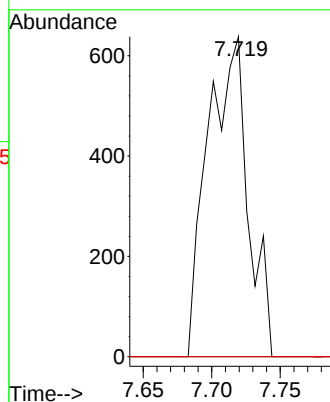
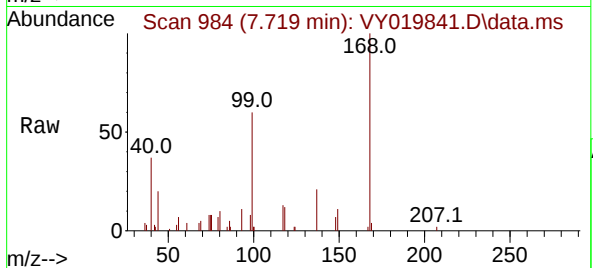




#36
1,1-Dichloropropene
Concen: 6.731 ug/l
RT: 7.719 min Scan# 91
Delta R.T. -0.116 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

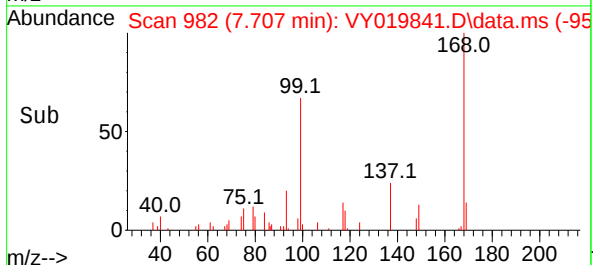
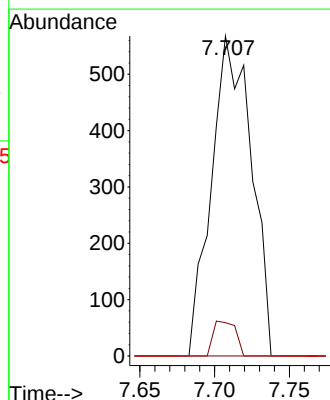
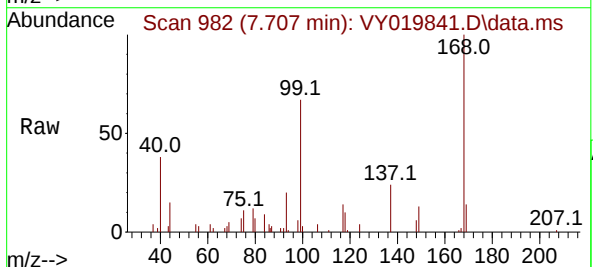
Instrument :
MSVOA_Y
ClientSampleId :

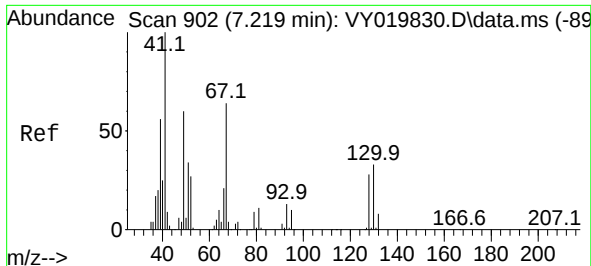
Tgt Ion: 75 Resp: 1300
Ion Ratio Lower Upper
75 100
110 0.0 16.6 49.8#
77 0.0 24.6 36.8#



#38
Carbon Tetrachloride
Concen: 5.105 ug/l
RT: 7.707 min Scan# 982
Delta R.T. -0.110 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

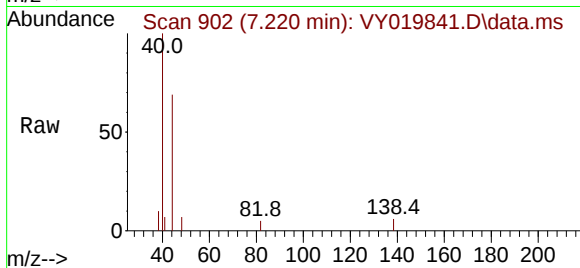
Tgt Ion: 117 Resp: 1057
Ion Ratio Lower Upper
117 100
119 10.4 76.2 114.4#
121 0.0 25.0 37.4#



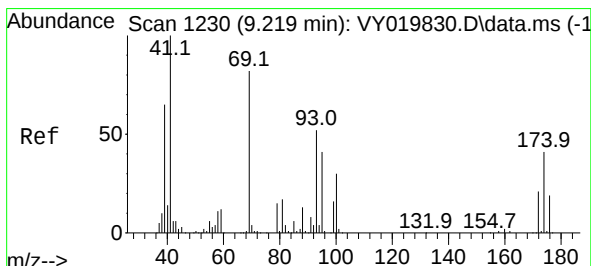
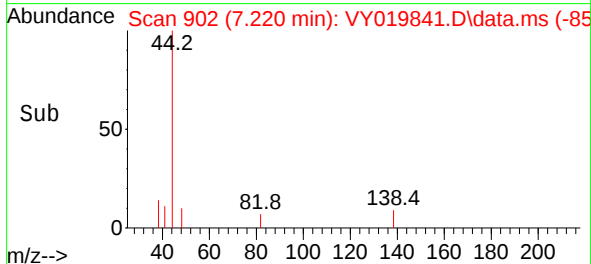
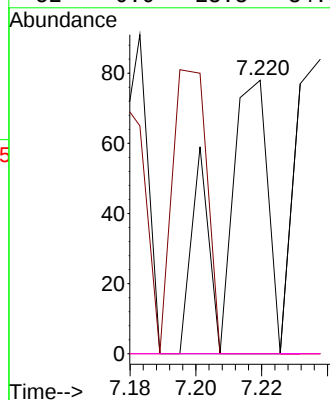


#41
Methacrylonitrile
Concen: 1.413 ug/l
RT: 7.220 min Scan# 90
Delta R.T. 0.000 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Instrument :
MSVOA_Y
ClientSampleId :

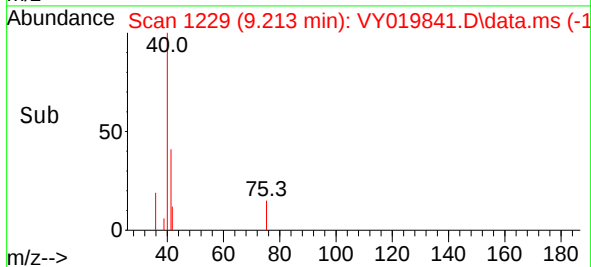
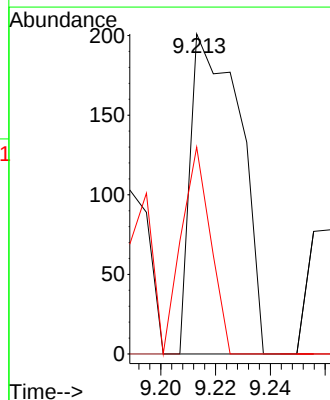
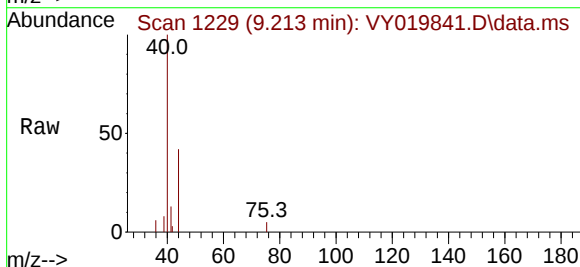


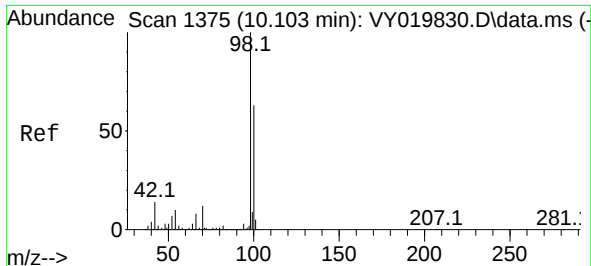
Tgt Ion:	41	Resp:	77
Ion	Ratio	Lower	Upper
41	100		
39	0.0	43.9	65.9#
67	0.0	53.2	79.8#
52	0.0	23.3	34.9#



#48
Methyl methacrylate
Concen: 2.778 ug/l
RT: 9.213 min Scan# 1229
Delta R.T. -0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion:	41	Resp:	251
Ion	Ratio	Lower	Upper
41	100		
69	0.0	66.3	99.5#
39	38.2	50.2	75.4#

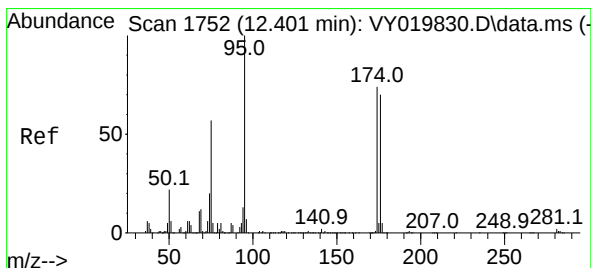
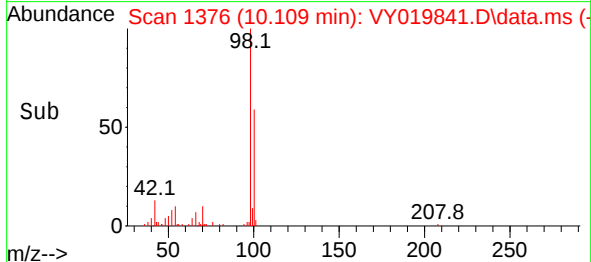
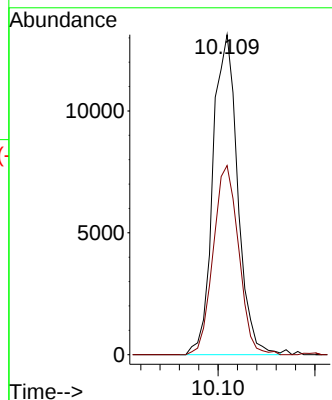
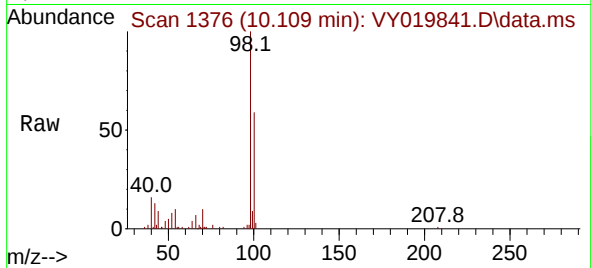




#50
Toluene-d8
Concen: 47.028 ug/l
RT: 10.109 min Scan# 1375
Delta R.T. 0.006 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

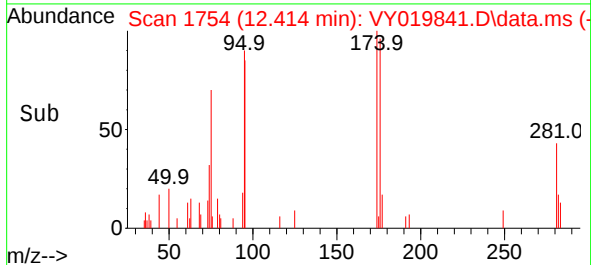
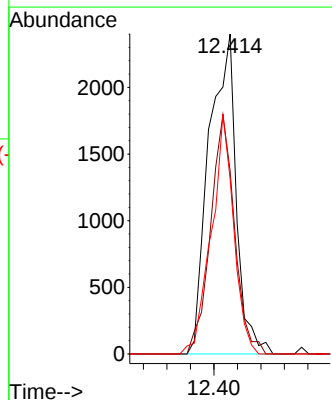
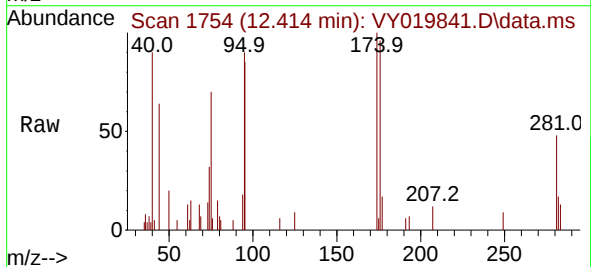
Instrument :
MSVOA_Y
ClientSampleId :

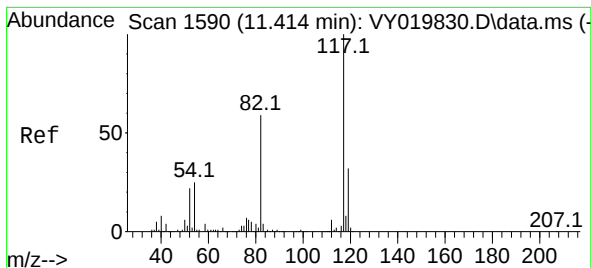
Tgt Ion: 98 Resp: 23280
Ion Ratio Lower Upper
98 100
100 60.8 51.1 76.7



#62
4-Bromofluorobenzene
Concen: 21.597 ug/l
RT: 12.414 min Scan# 1754
Delta R.T. 0.012 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion: 95 Resp: 3863
Ion Ratio Lower Upper
95 100
174 66.0 0.0 148.0
176 61.3 0.0 142.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

ClientSampleId :

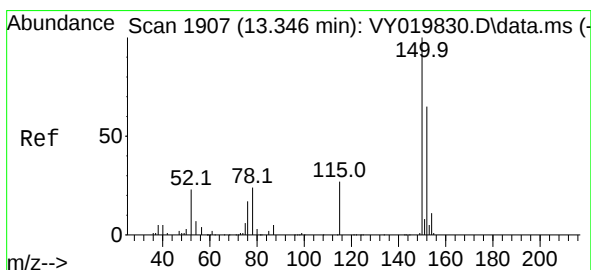
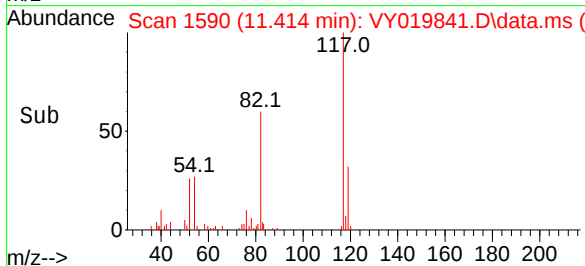
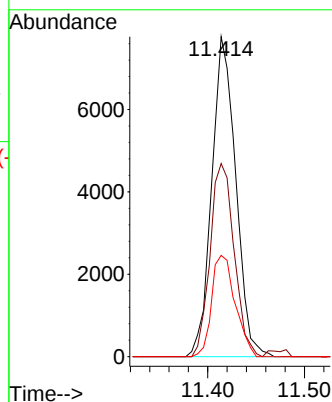
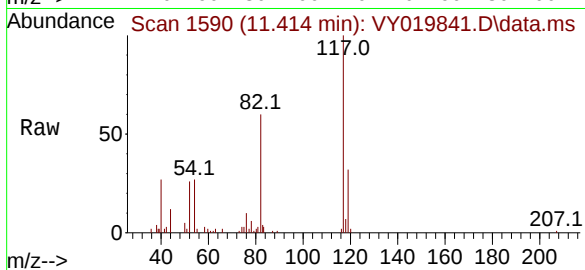
Tgt Ion:117 Resp: 13361

Ion Ratio Lower Upper

117 100

82 60.3 46.9 70.3

119 31.7 25.4 38.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1906

Delta R.T. -0.006 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

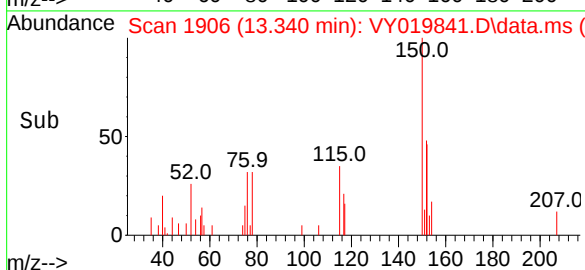
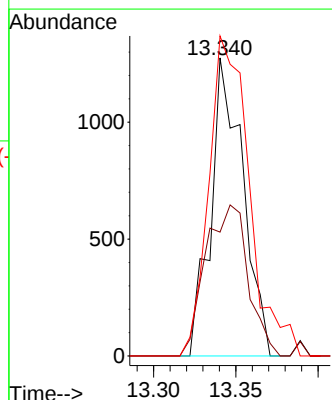
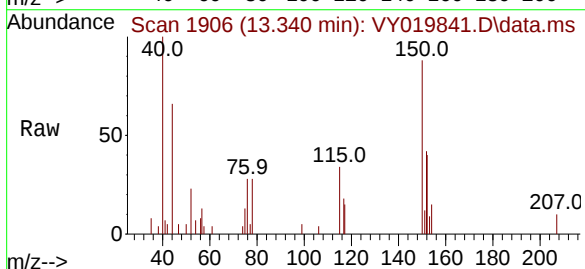
Tgt Ion:152 Resp: 1732

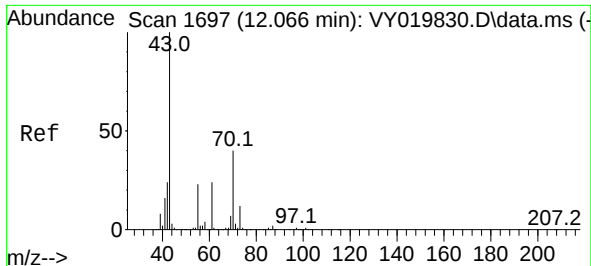
Ion Ratio Lower Upper

152 100

115 67.1 30.8 92.3

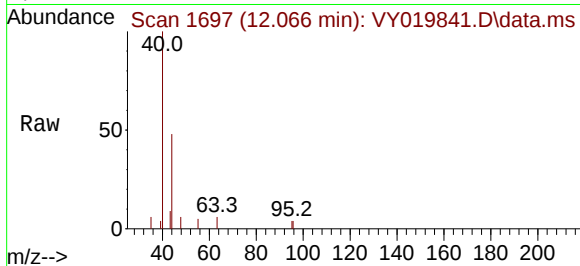
150 135.2 0.0 352.8



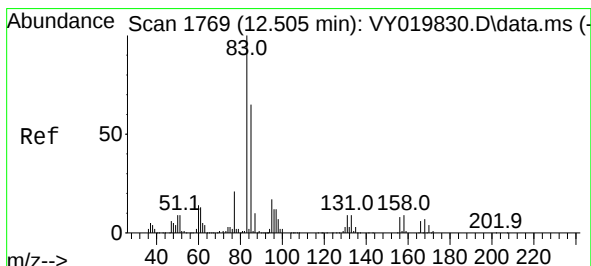
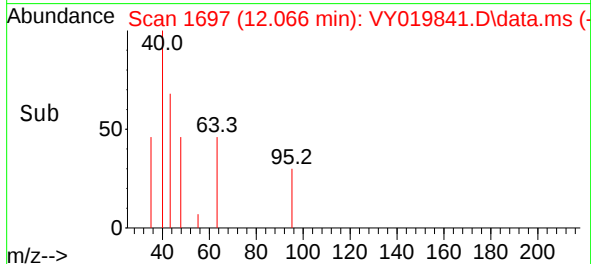
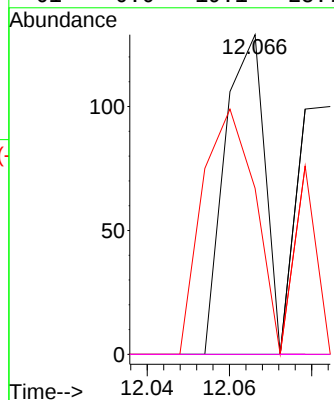


#74
N-ethyl acetate
Concen: 2.229 ug/l
RT: 12.066 min Scan# 1697
Delta R.T. 0.000 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Instrument :
MSVOA_Y
ClientSampleId :

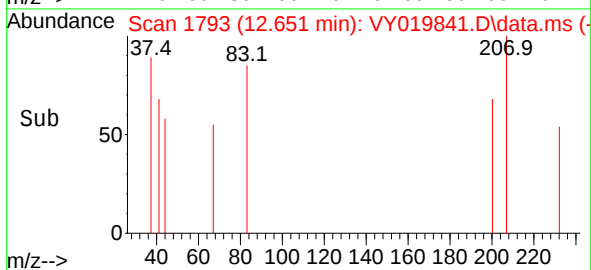
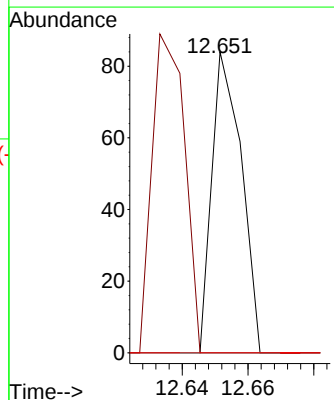
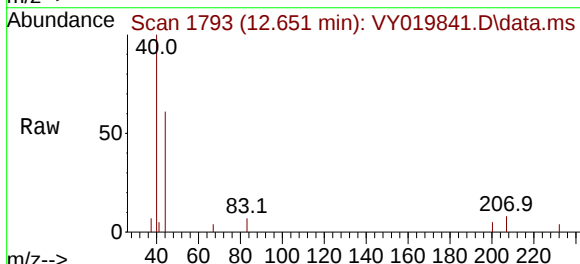


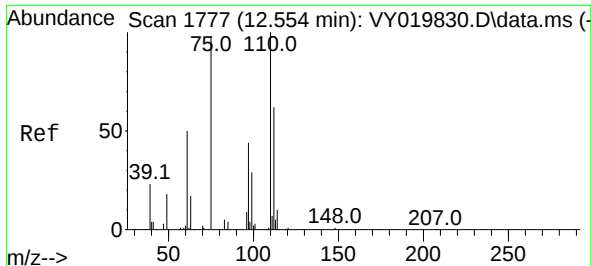
Tgt Ion: 43	Resp: 86
Ion Ratio	Lower Upper
43 100	
70 0.0	32.8 49.2#
55 102.3	19.3 28.9#
61 0.0	19.1 28.7#



#75
1,1,2,2-Tetrachloroethane
Concen: 2.009 ug/l
RT: 12.651 min Scan# 1793
Delta R.T. 0.146 min
Lab File: VY019841.D
Acq: 09 Oct 2024 18:38

Tgt Ion: 83	Resp: 52
Ion Ratio	Lower Upper
83 100	
131 117.3	4.9 14.6#
85 0.0	31.7 95.1#





#76

1,2,3-Trichloropropane

Concen: 124.259 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.152 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

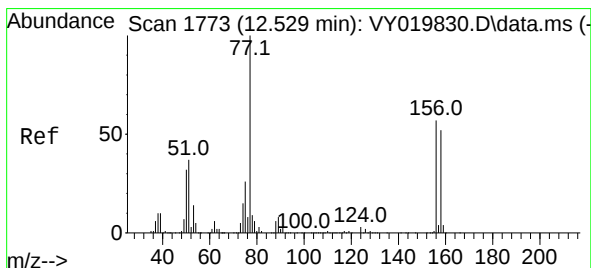
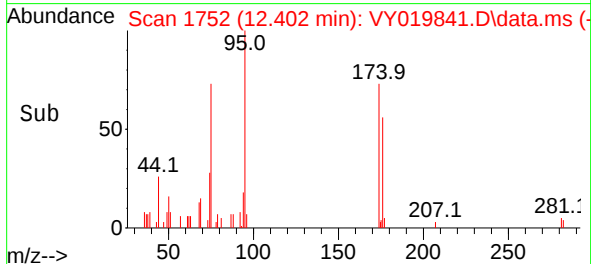
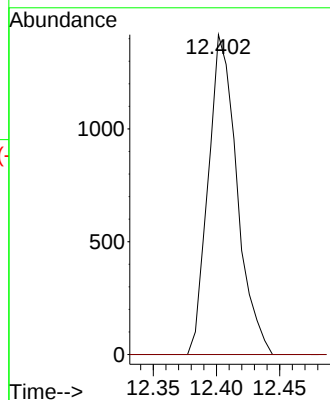
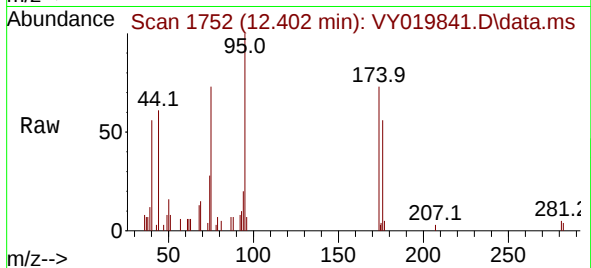
ClientSampleId :

Tgt Ion: 75 Resp: 2241

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



#77

Bromobenzene

Concen: 2.297 ug/l

RT: 12.603 min Scan# 1785

Delta R.T. 0.073 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

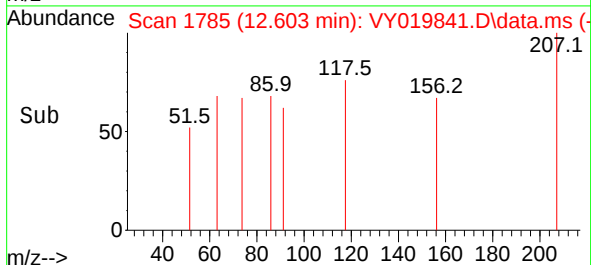
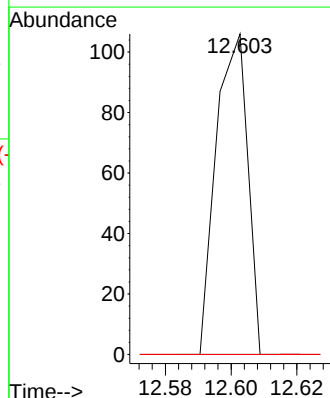
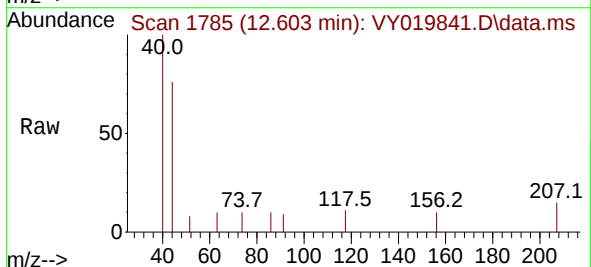
Tgt Ion: 156 Resp: 71

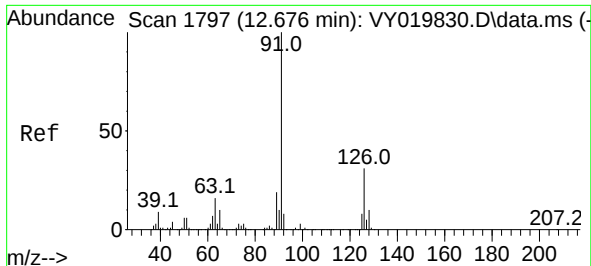
Ion Ratio Lower Upper

156 100

77 0.0 101.3 303.9#

158 0.0 47.9 143.6#





#79

2-Chlorotoluene

Concen: 1.050 ug/l

RT: 12.682 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

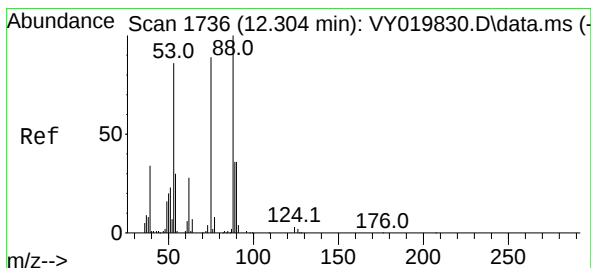
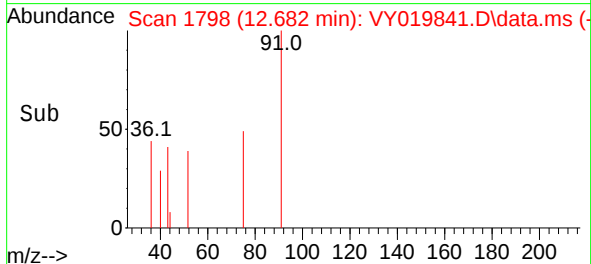
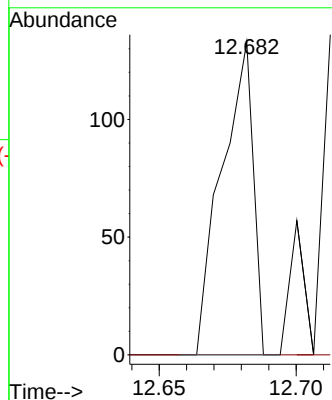
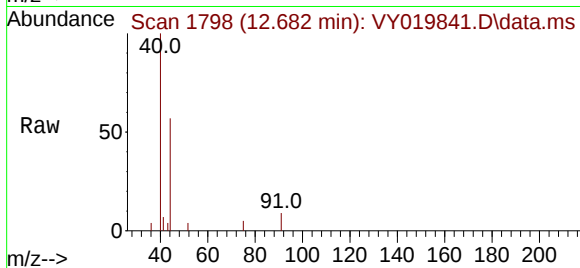
ClientSampleId :

Tgt Ion: 91 Resp: 106

Ion Ratio Lower Upper

91 100

126 0.0 16.1 48.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 266.596 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

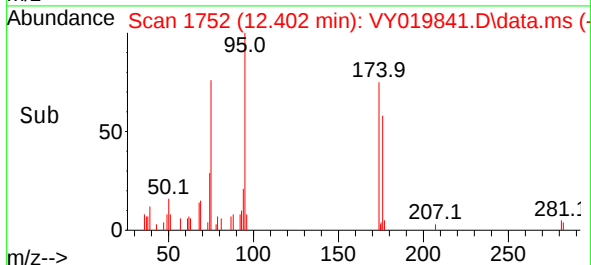
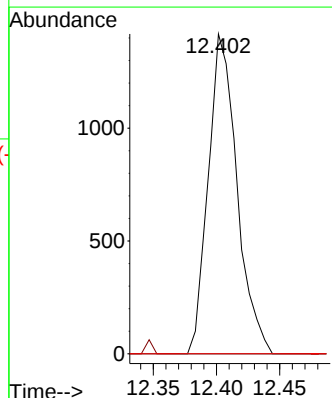
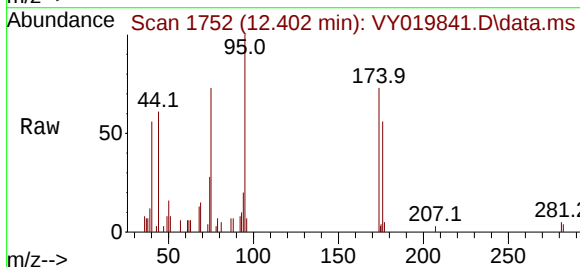
Tgt Ion: 75 Resp: 2241

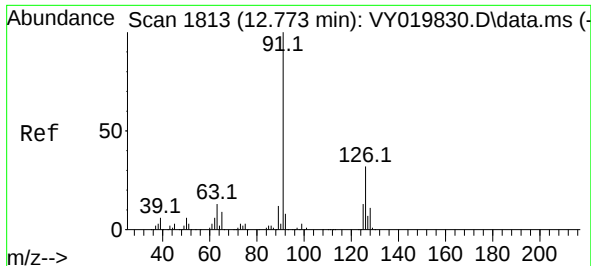
Ion Ratio Lower Upper

75 100

53 0.0 84.7 127.1#

89 0.0 35.4 53.2#





#82

4-Chlorotoluene

Concen: 1.492 ug/l

RT: 12.780 min Scan# 1814

Delta R.T. 0.006 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

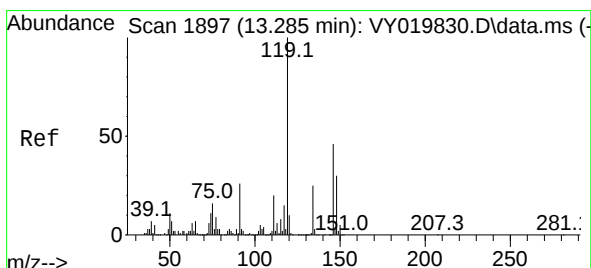
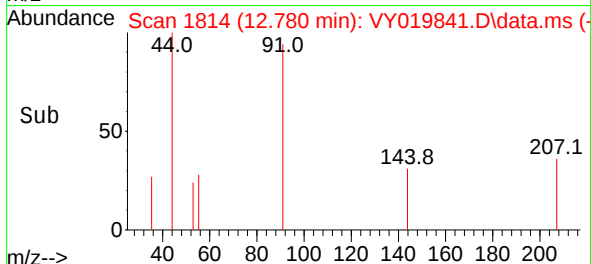
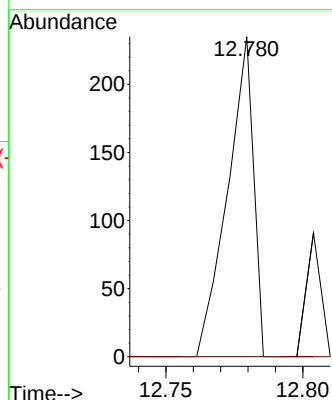
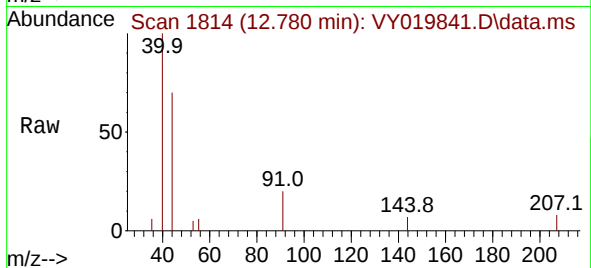
ClientSampleId :

Tgt Ion: 91 Resp: 154

Ion Ratio Lower Upper

91 100

126 0.0 16.1 48.3#



#86

p-Isopropyltoluene

Concen: 1.306 ug/l

RT: 13.298 min Scan# 1899

Delta R.T. 0.012 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

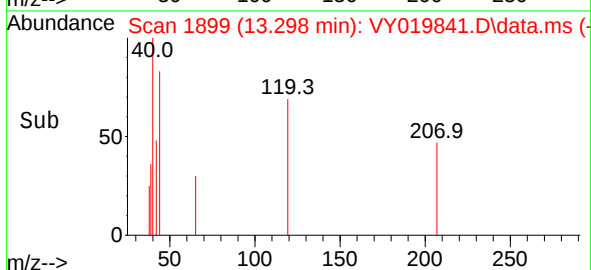
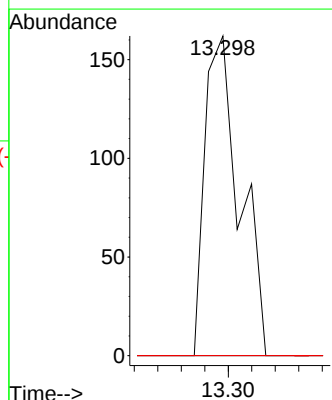
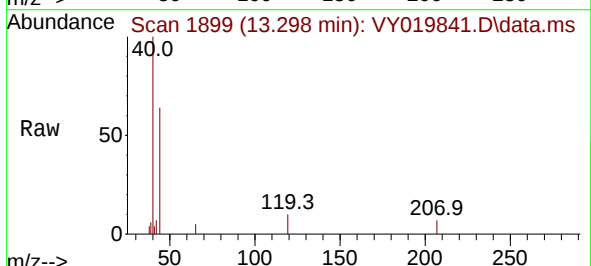
Tgt Ion: 119 Resp: 167

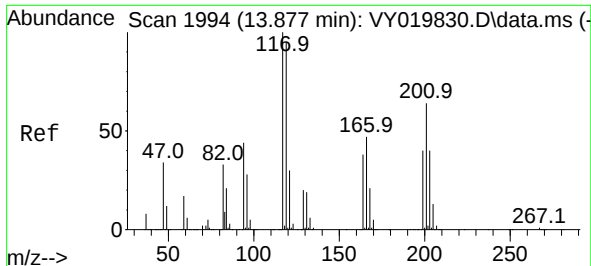
Ion Ratio Lower Upper

119 100

134 0.0 12.8 38.3#

91 0.0 12.7 38.0#





#90

Hexachloroethane

Concen: 1.406 ug/l

RT: 13.834 min Scan# 1987

Delta R.T. -0.043 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

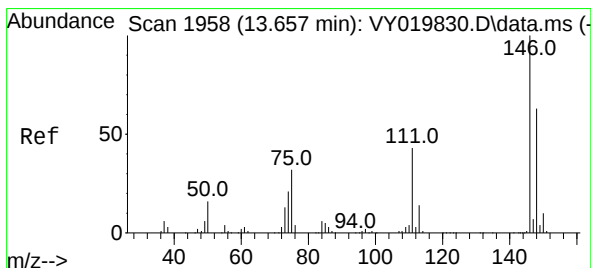
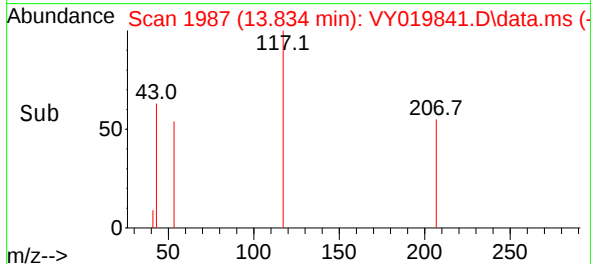
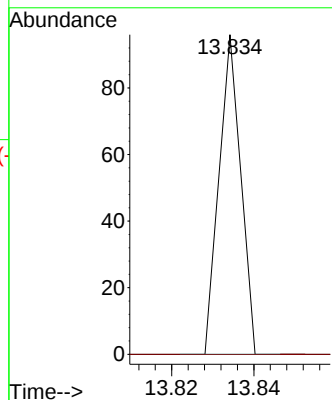
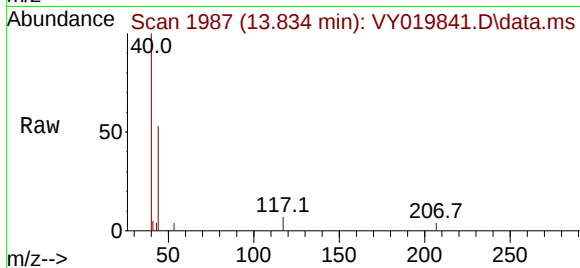
ClientSampleId :

Tgt Ion:117 Resp: 35

Ion Ratio Lower Upper

117 100

201 0.0 33.1 99.5#



#91

1,2-Dichlorobenzene

Concen: 1.094 ug/l

RT: 13.663 min Scan# 1959

Delta R.T. 0.006 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

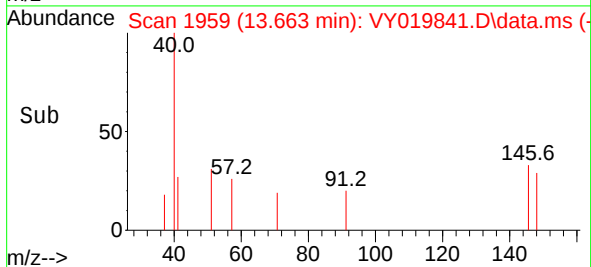
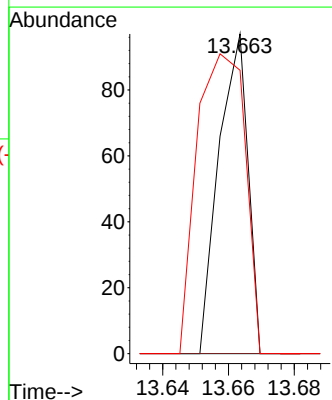
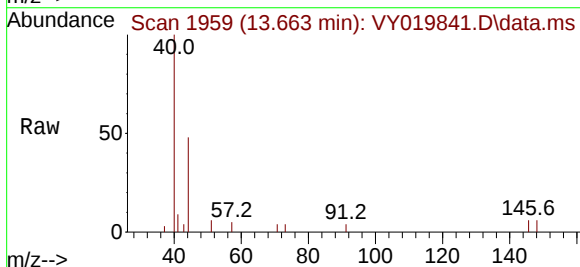
Tgt Ion:146 Resp: 60

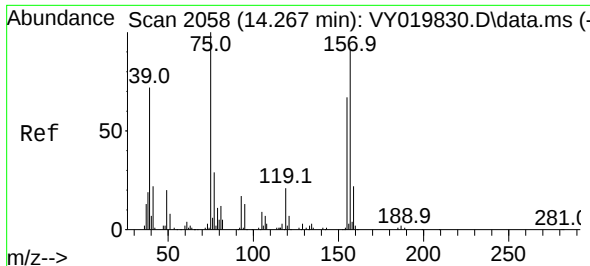
Ion Ratio Lower Upper

146 100

111 0.0 21.8 65.3#

148 155.0 32.0 96.0#





#92

1,2-Dibromo-3-Chloropropane

Concen: 4.841 ug/l

RT: 14.145 min Scan# 2058

Delta R.T. -0.122 min

Lab File: VY019841.D

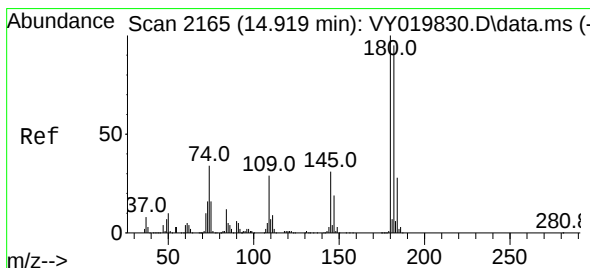
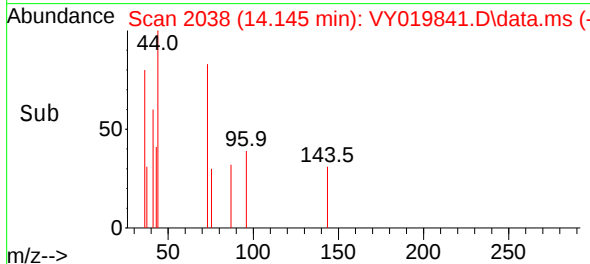
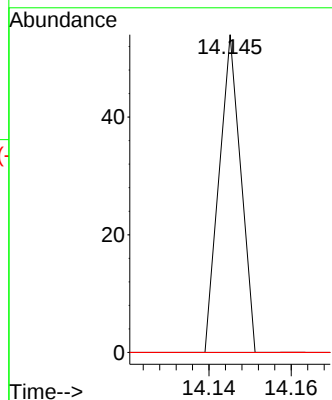
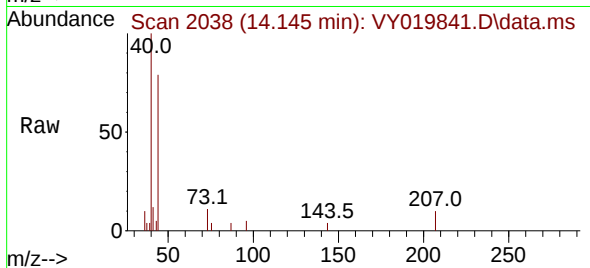
Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 75	Resp: 20
Ion Ratio	Lower Upper
75	100
155	0.0 38.5 115.5#
157	0.0 49.9 149.7#



#93

1,2,4-Trichlorobenzene

Concen: 1.691 ug/l

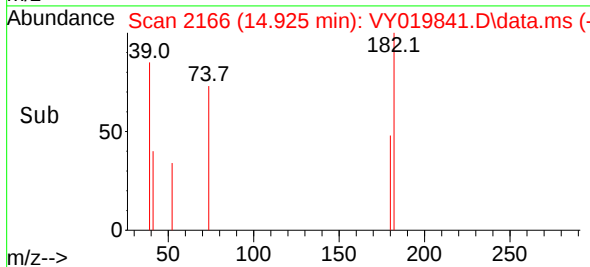
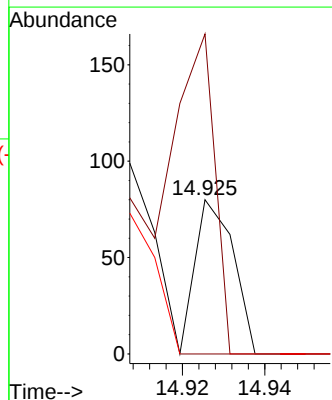
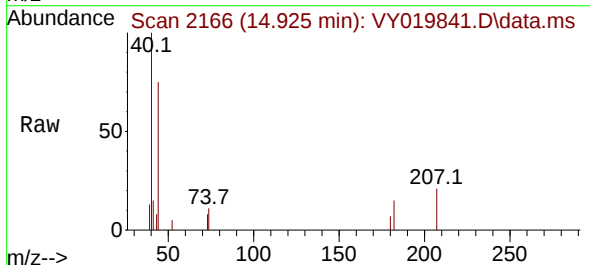
RT: 14.925 min Scan# 2166

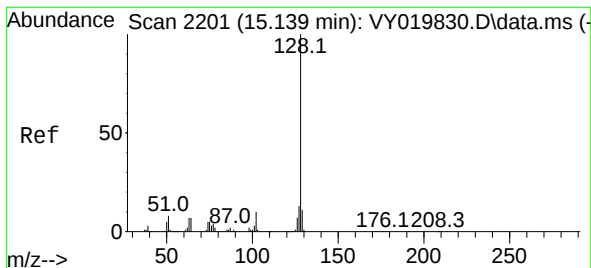
Delta R.T. 0.006 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Tgt Ion: 180	Resp: 52
Ion Ratio	Lower Upper
180	100
182	309.6 47.4 142.3#
145	0.0 16.1 48.2#





#95

Naphthalene

Concen: 8.291 ug/l

RT: 15.151 min Scan# 2203

Delta R.T. 0.012 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Instrument :

MSVOA_Y

ClientSampleId :

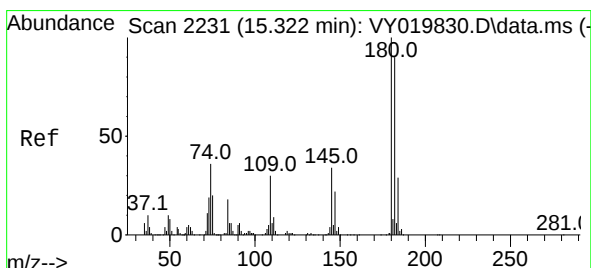
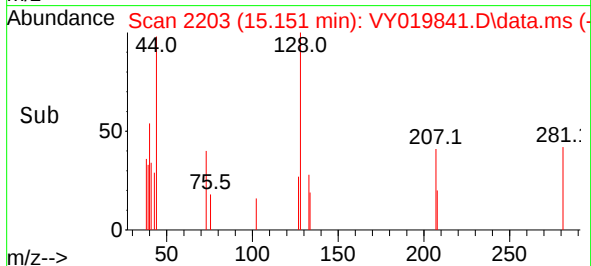
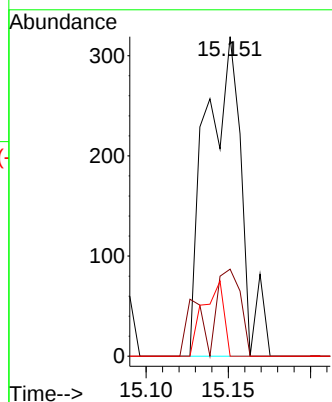
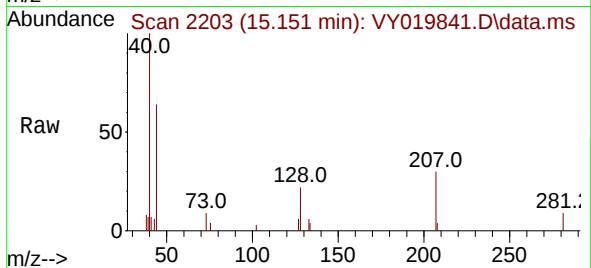
Tgt Ion:128 Resp: 481

Ion Ratio Lower Upper

128 100

127 17.7 10.4 15.6#

129 13.5 8.6 12.8#



#96

1,2,3-Trichlorobenzene

Concen: 5.692 ug/l

RT: 15.322 min Scan# 2231

Delta R.T. 0.000 min

Lab File: VY019841.D

Acq: 09 Oct 2024 18:38

Tgt Ion:180 Resp: 148

Ion Ratio Lower Upper

180 100

182 74.3 46.8 140.4

145 0.0 16.9 50.6#

