

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY050825\
 Data File : VY022203.D
 Acq On : 08 May 2025 11:30
 Operator : SY/MD
 Sample : Q1978-01
 Misc : 5.76g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-12016

Quant Time: May 09 05:05:53 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y042225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 23 02:30:30 2025
 Response via : Initial Calibration

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

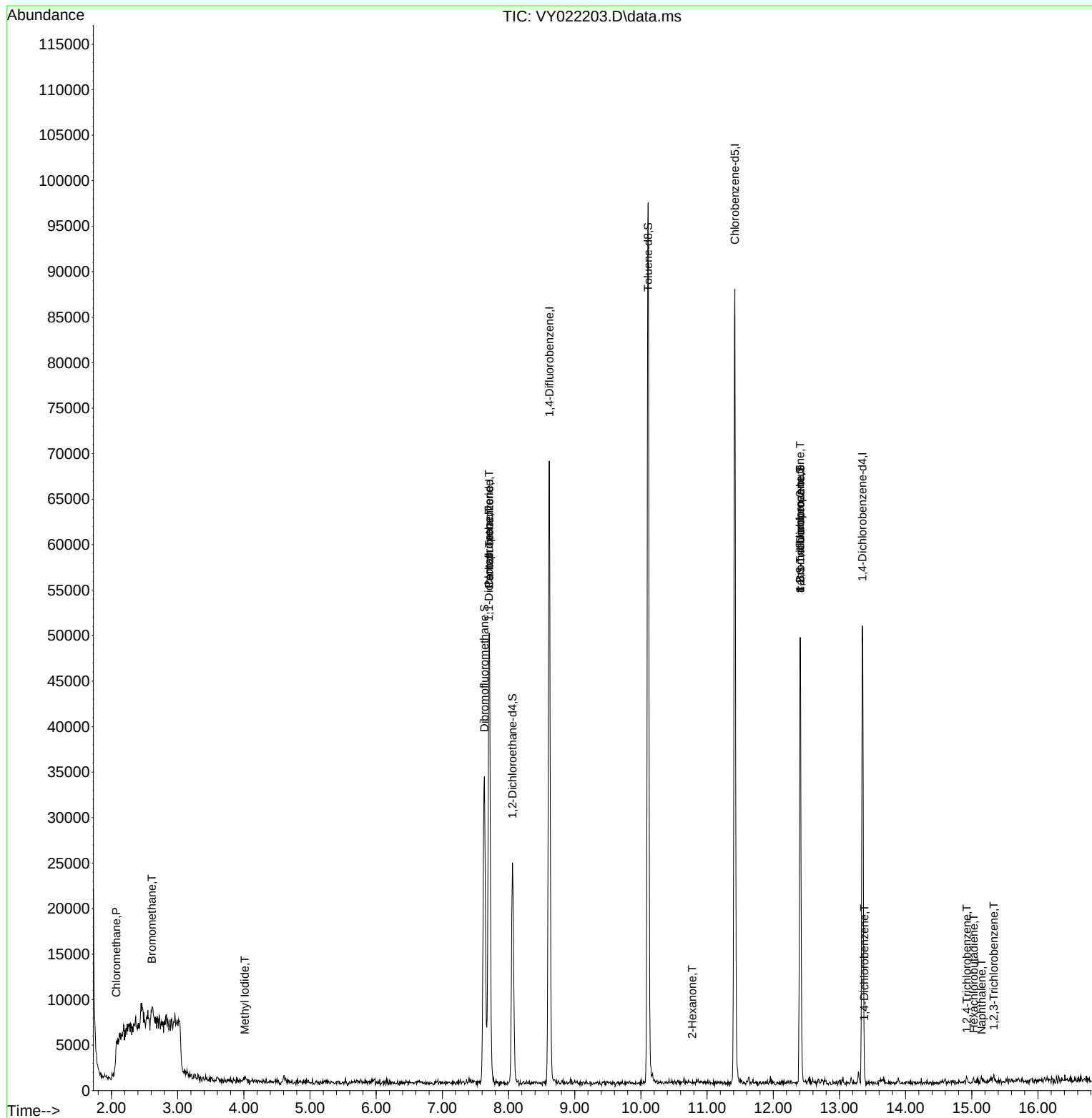
Internal Standards						
1) Pentafluorobenzene	7.707	168	38963	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	59234	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	48933	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	13531	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	19805	55.030	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 110.060%			
35) Dibromofluoromethane	7.634	113	24787	63.340	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 126.680%			
50) Toluene-d8	10.109	98	66992	45.409	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 90.820%			
62) 4-Bromofluorobenzene	12.407	95	15423	31.054	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 62.100%			
Target Compounds						Qvalue
3) Chloromethane	2.074	50	718	1.519	ug/l #	49
5) Bromomethane	2.610	94	1465	2.927	ug/l	96
10) Methyl Iodide	4.013	142	874	1.817	ug/l #	89
16) Acetone	3.860	43	95	Below Cal		93
36) 1,1-Dichloropropene	7.701	75	3100	5.897	ug/l #	45
38) Carbon Tetrachloride	7.707	117	4023	6.405	ug/l #	16
59) 2-Hexanone	10.774	43	171	1.364	ug/l #	18
76) 1,2,3-Trichloropropane	12.407	75	7611	65.669	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	7611	158.140	ug/l #	16
88) 1,4-Dichlorobenzene	13.377	146	473	1.029	ug/l #	70
93) 1,2,4-Trichlorobenzene	14.925	180	324	1.413	ug/l #	81
94) Hexachlorobutadiene	15.029	225	184	1.304	ug/l #	49
95) Naphthalene	15.151	128	487	1.278	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.334	180	352	1.778	ug/l	76

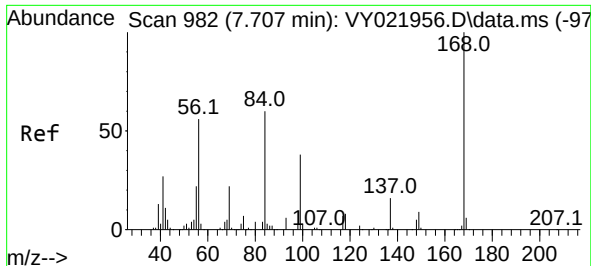
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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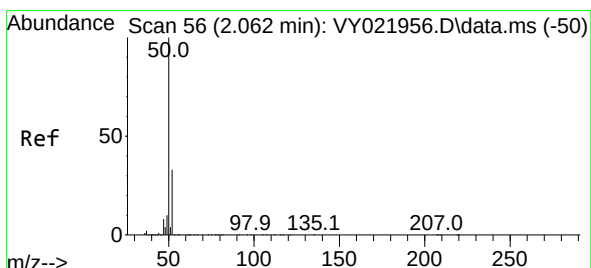
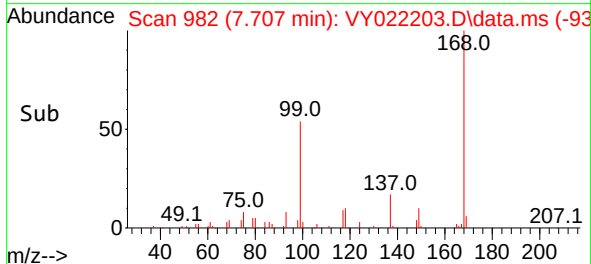
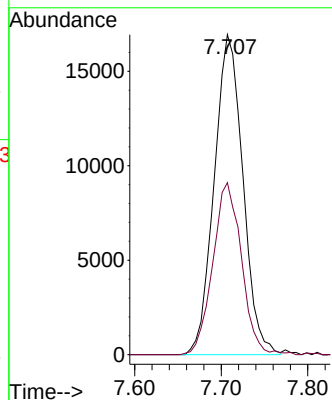
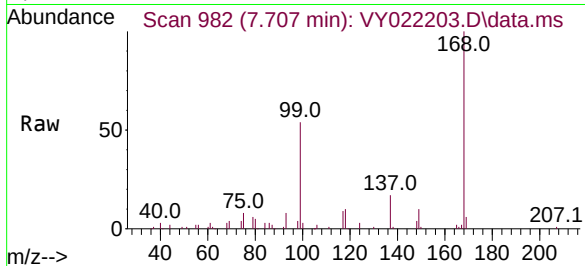




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

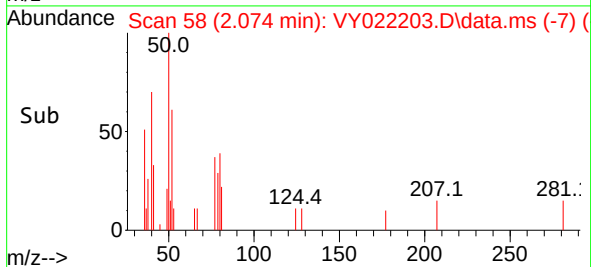
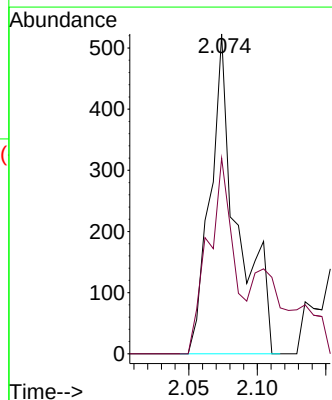
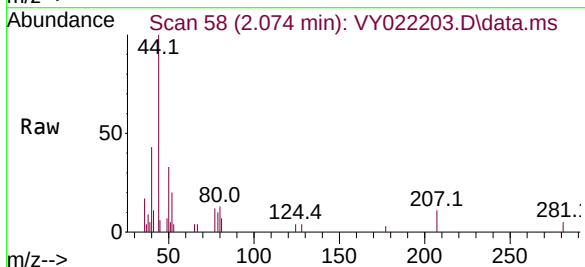
Instrument :
MSVOA_Y
ClientSampleId :
72-12016

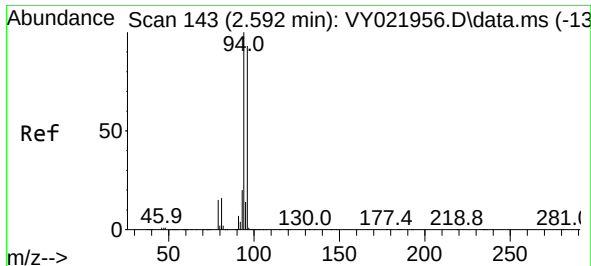
Tgt Ion:168 Resp: 38963
Ion Ratio Lower Upper
168 100
99 53.7 43.1 64.7



#3
Chloromethane
Concen: 1.519 ug/l
RT: 2.074 min Scan# 58
Delta R.T. 0.012 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion: 50 Resp: 718
Ion Ratio Lower Upper
50 100
52 61.2 26.1 39.1#

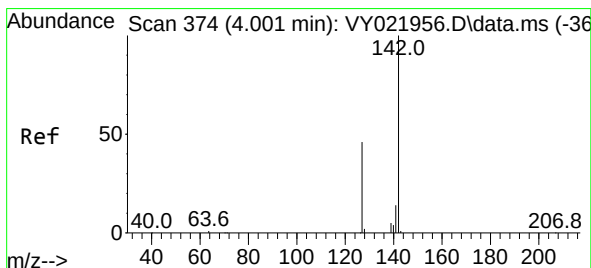
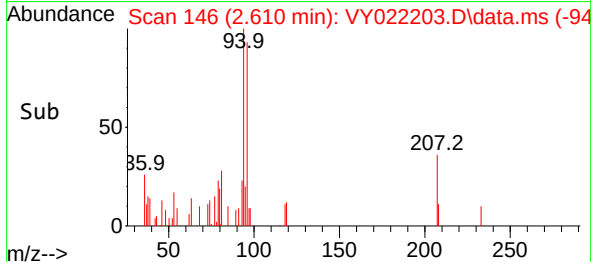
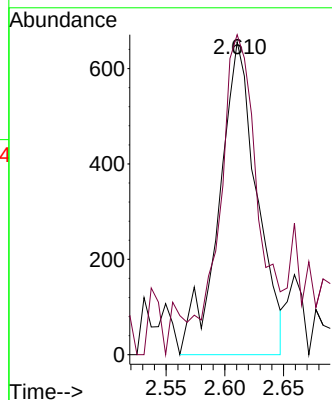
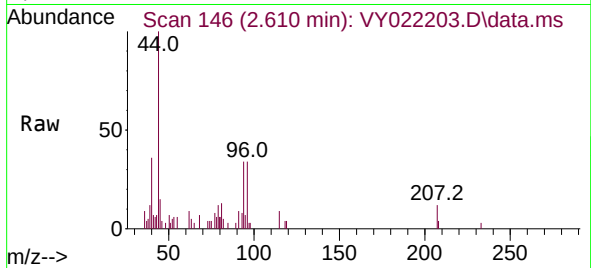




#5
Bromomethane
Concen: 2.927 ug/l
RT: 2.610 min Scan# 143
Delta R.T. 0.018 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

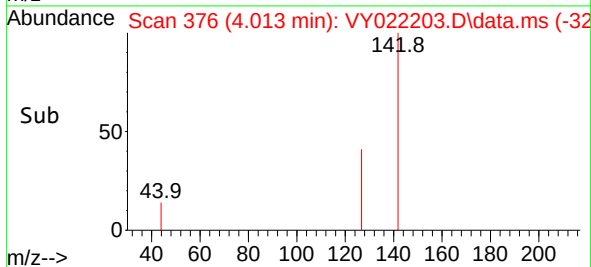
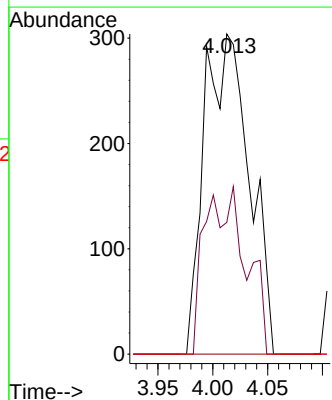
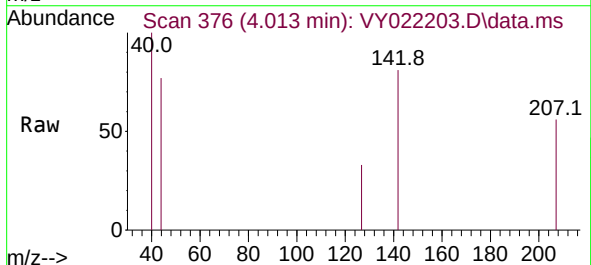
Instrument :
MSVOA_Y
ClientSampleId :
72-12016

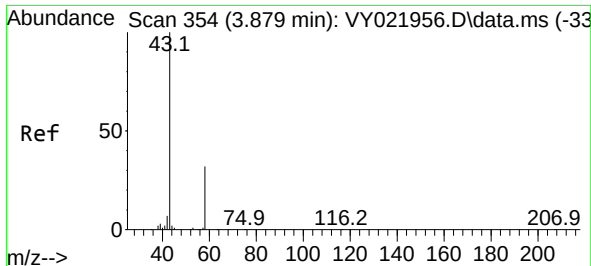
Tgt Ion: 94 Resp: 1465
Ion Ratio Lower Upper
94 100
96 89.8 74.6 111.8



#10
Methyl Iodide
Concen: 1.817 ug/l
RT: 4.013 min Scan# 376
Delta R.T. 0.012 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion: 142 Resp: 874
Ion Ratio Lower Upper
142 100
127 47.5 36.2 54.2
141 0.0 11.7 17.5#

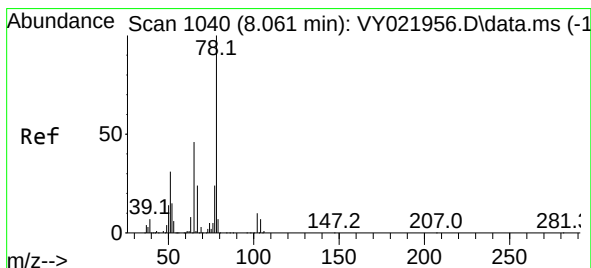
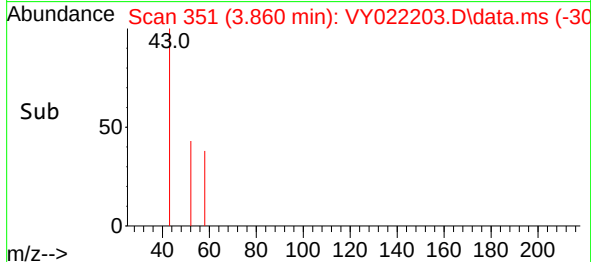
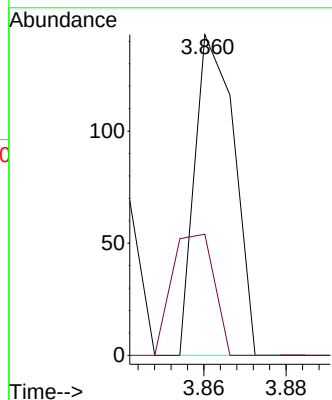
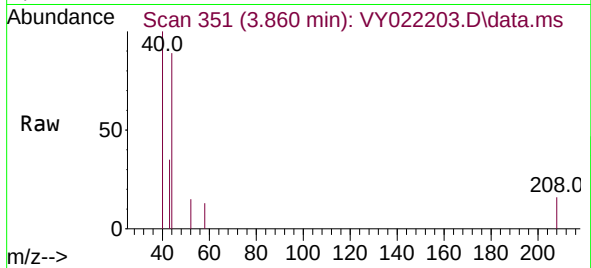




#16
Acetone
Concen: Below Cal
RT: 3.860 min Scan# 31
Delta R.T. -0.019 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

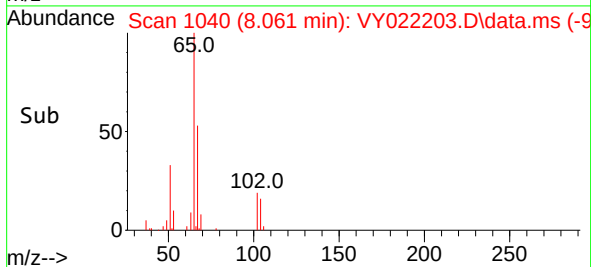
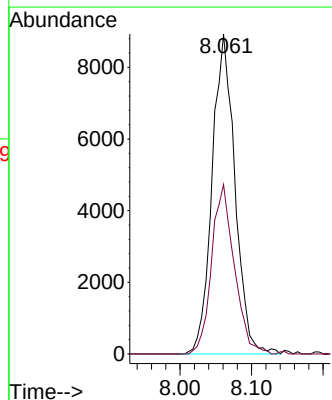
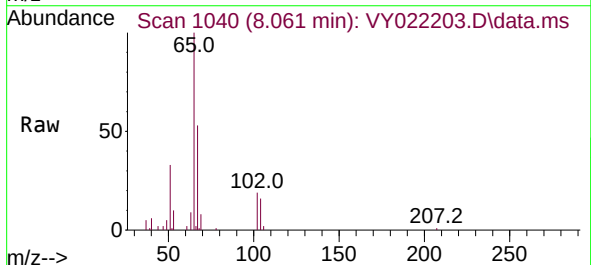
Instrument :
MSVOA_Y
ClientSampleId :
72-12016

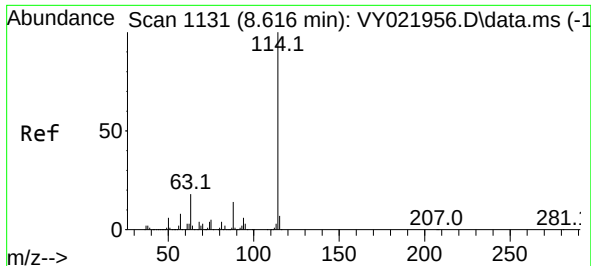
Tgt Ion: 43 Resp: 95
Ion Ratio Lower Upper
43 100
58 37.8 27.0 40.4



#33
1,2-Dichloroethane-d4
Concen: 55.030 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion: 65 Resp: 19805
Ion Ratio Lower Upper
65 100
67 52.6 0.0 105.8

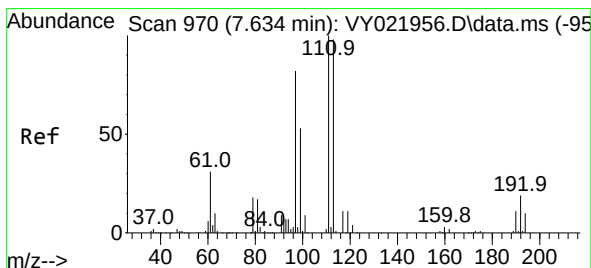
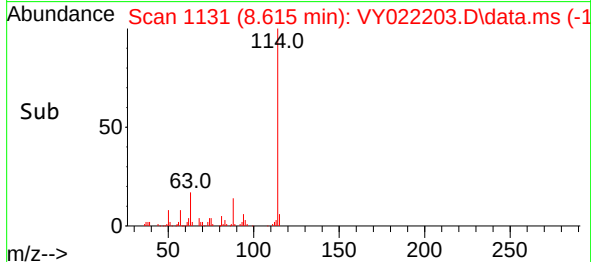
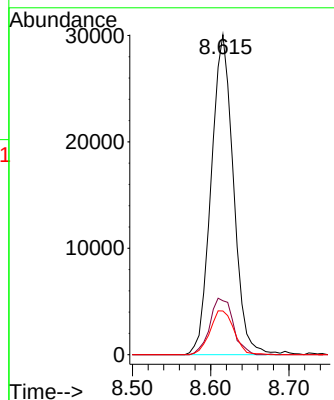
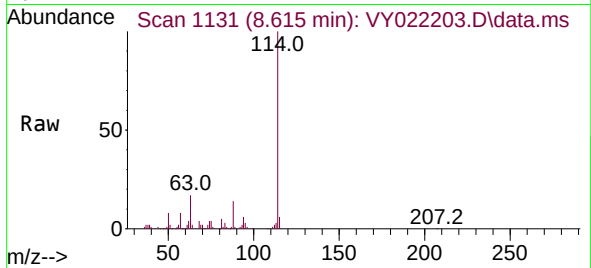




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

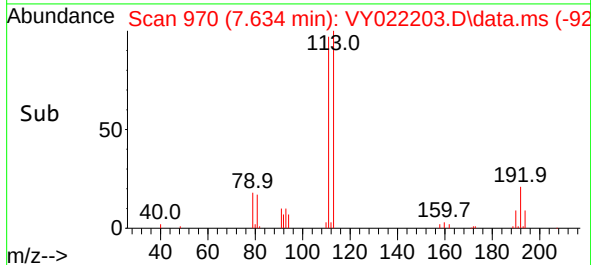
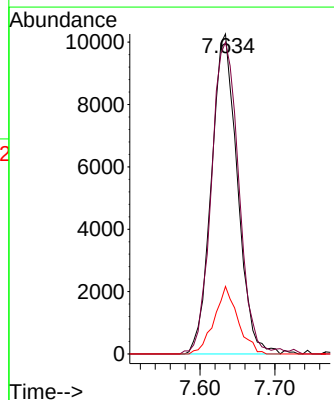
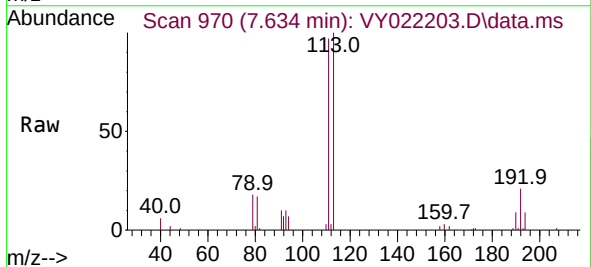
Instrument :
MSVOA_Y
ClientSampleId :
72-12016

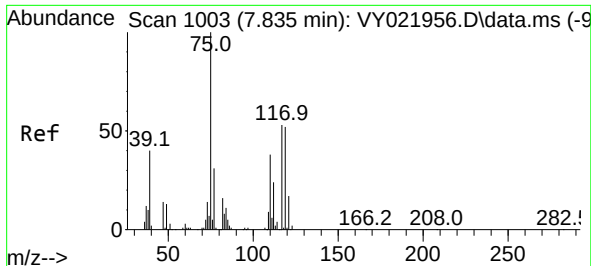
Tgt Ion:114	Resp:	59234
Ion Ratio	Lower	Upper
114	100	
63	16.9	0.0 35.4
88	13.6	0.0 28.2



#35
Dibromofluoromethane
Concen: 63.340 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion:113	Resp:	24787
Ion Ratio	Lower	Upper
113	100	
111	103.3	81.8 122.8
192	19.2	15.6 23.4





#36

1,1-Dichloropropene

Concen: 5.897 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.134 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

Instrument :

MSVOA_Y

ClientSampleId :

72-12016

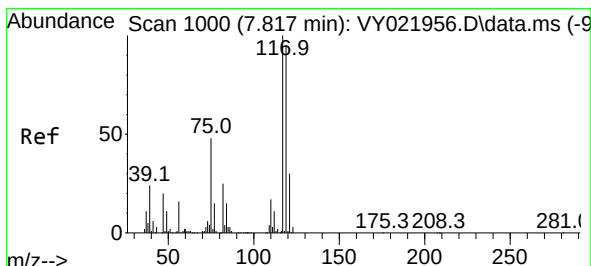
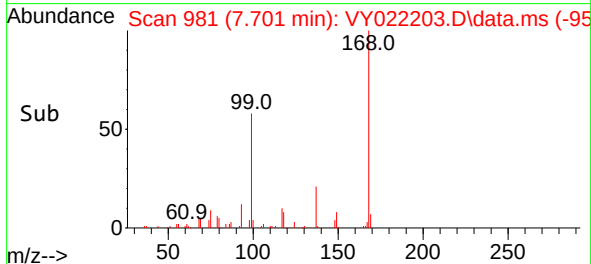
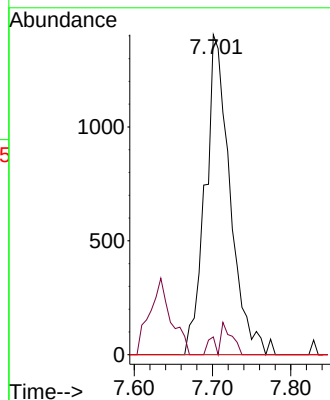
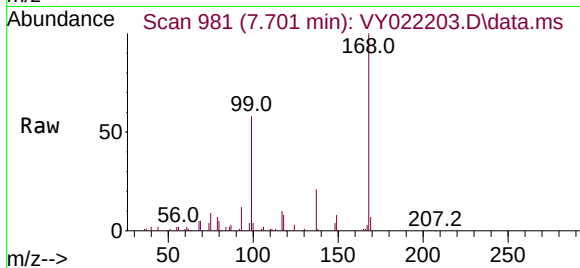
Tgt Ion: 75 Resp: 3100

Ion Ratio Lower Upper

75 100

110 6.0 19.1 57.3#

77 0.0 25.5 38.3#



#38

Carbon Tetrachloride

Concen: 6.405 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.110 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

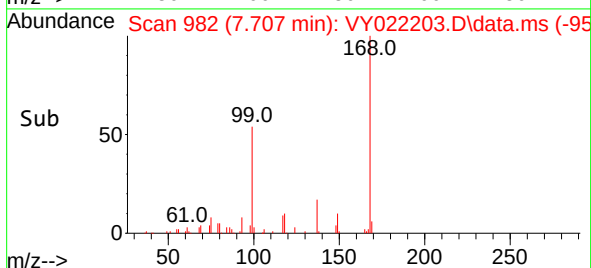
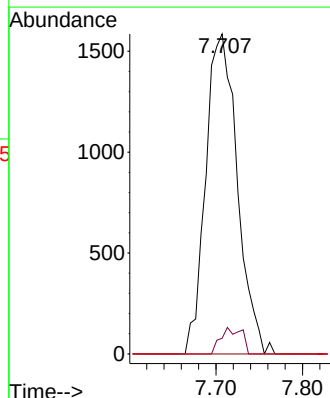
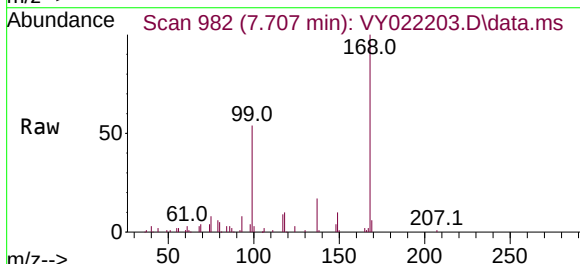
Tgt Ion: 117 Resp: 4023

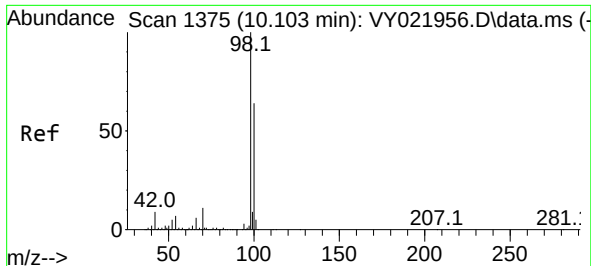
Ion Ratio Lower Upper

117 100

119 4.9 76.2 114.4#

121 0.0 24.0 36.0#

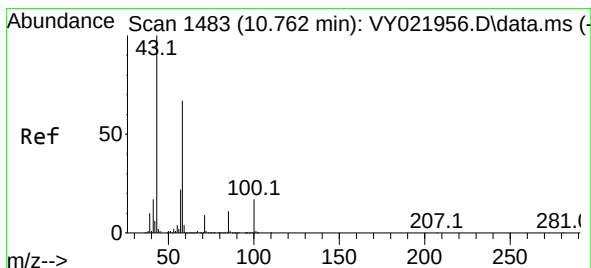
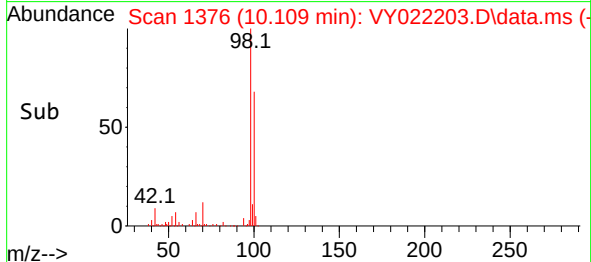
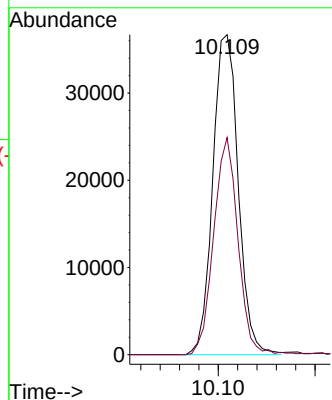
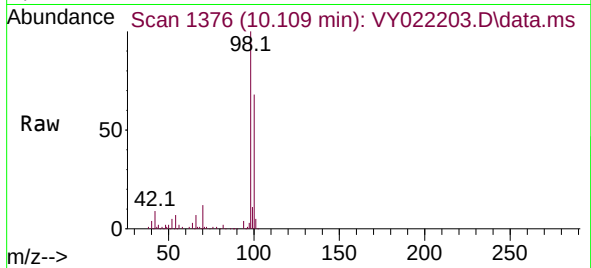




#50
Toluene-d8
Concen: 45.409 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

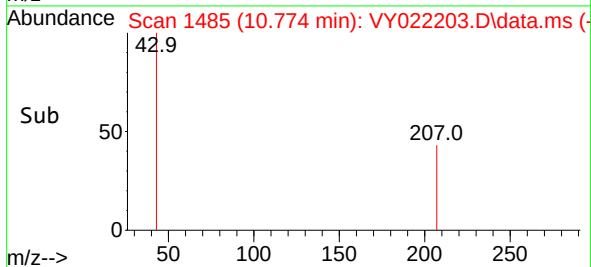
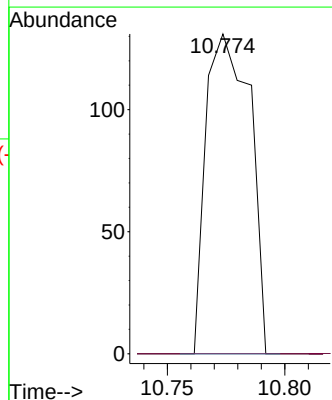
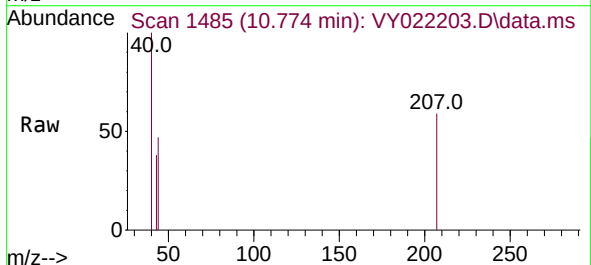
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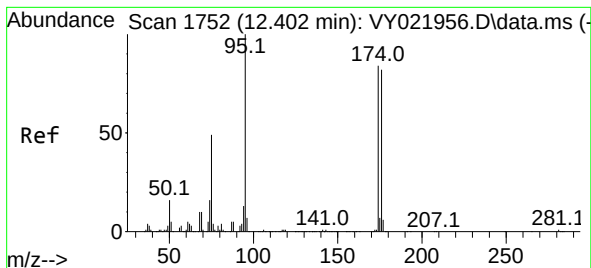
Tgt Ion: 98 Resp: 66992
Ion Ratio Lower Upper
98 100
100 64.9 51.6 77.4



#59
2-Hexanone
Concen: 1.364 ug/l
RT: 10.774 min Scan# 1485
Delta R.T. 0.012 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion: 43 Resp: 171
Ion Ratio Lower Upper
43 100
58 0.0 32.0 96.0#





#62

4-Bromofluorobenzene

Concen: 31.054 ug/l

RT: 12.407 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

Instrument :

MSVOA_Y

ClientSampleId :

72-12016

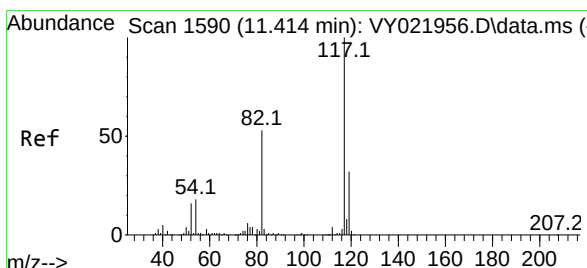
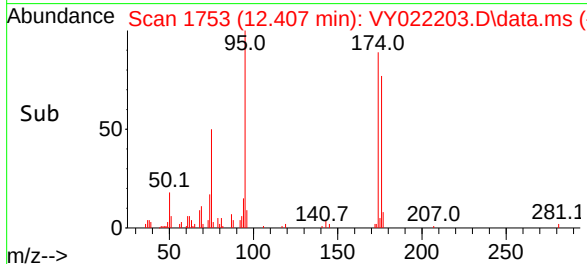
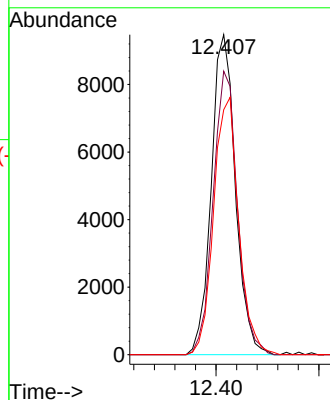
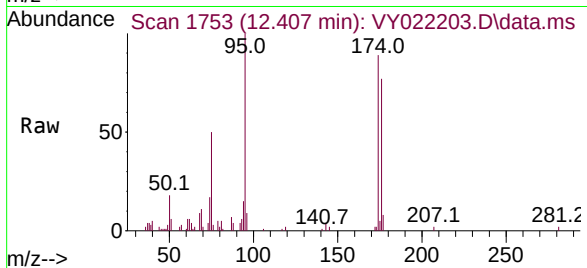
Tgt Ion: 95 Resp: 15423

Ion Ratio Lower Upper

95 100

174 89.4 0.0 179.0

176 83.4 0.0 171.8



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. 0.006 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

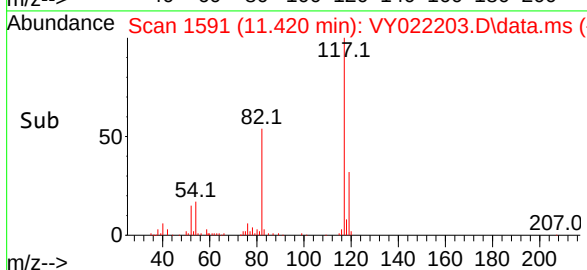
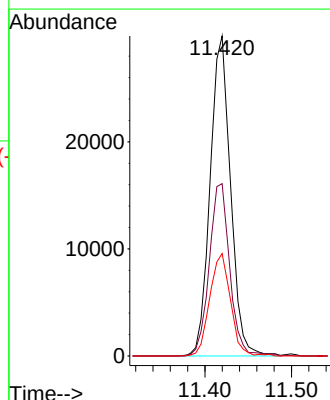
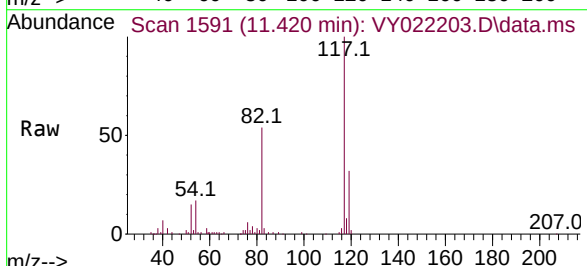
Tgt Ion: 117 Resp: 48933

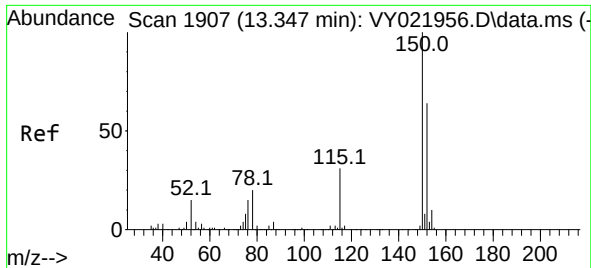
Ion Ratio Lower Upper

117 100

82 53.8 42.1 63.1

119 32.0 25.7 38.5

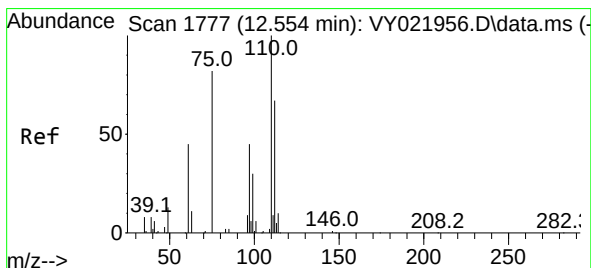
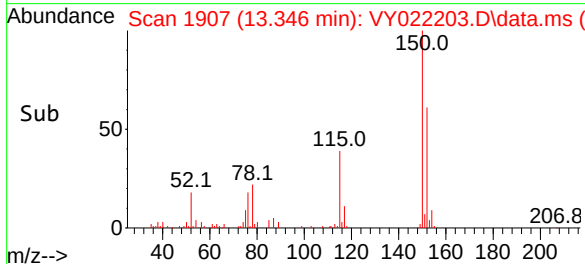
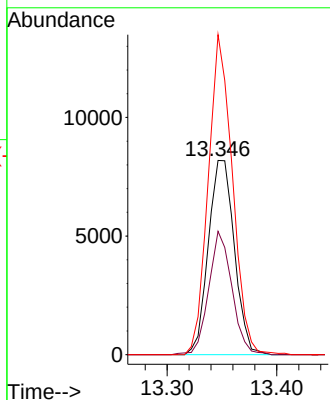
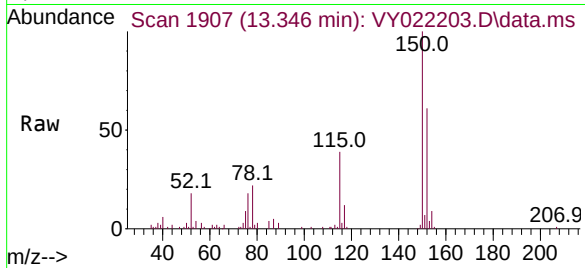




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.346 min Scan# 1907
 Delta R.T. -0.000 min
 Lab File: VY022203.D
 Acq: 08 May 2025 11:30

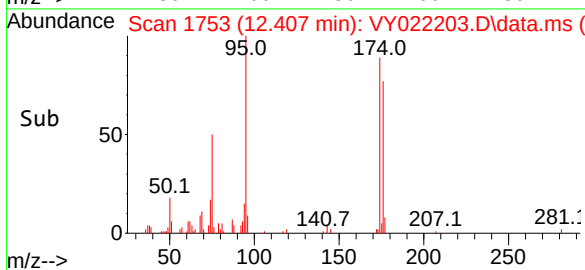
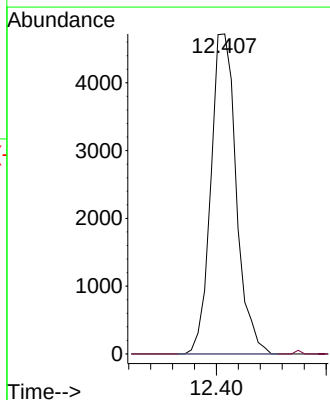
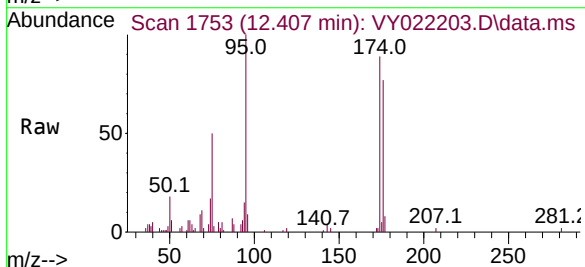
Instrument :
 MSVOA_Y
 ClientSampleId :
 72-12016

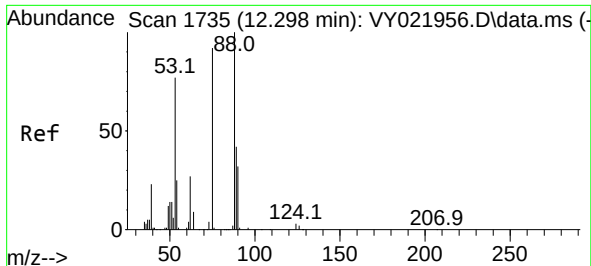
Tgt Ion:152 Resp: 13531
 Ion Ratio Lower Upper
 152 100
 115 56.5 28.0 84.0
 150 153.0 0.0 345.6



#76
 1,2,3-Trichloropropane
 Concen: 65.669 ug/l
 RT: 12.407 min Scan# 1753
 Delta R.T. -0.146 min
 Lab File: VY022203.D
 Acq: 08 May 2025 11:30

Tgt Ion: 75 Resp: 7611
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

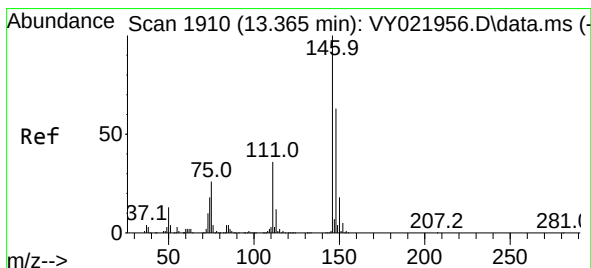
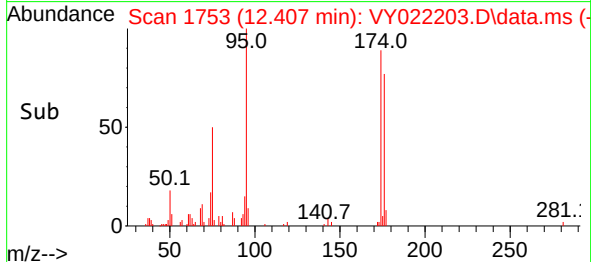
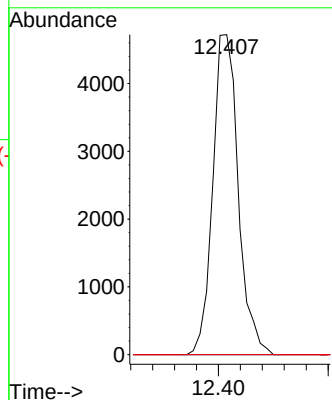
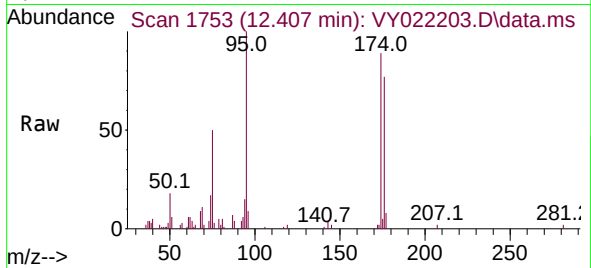




#81
trans-1,4-Dichloro-2-butene
Concen: 158.140 ug/l
RT: 12.407 min Scan# 1735
Delta R.T. 0.110 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

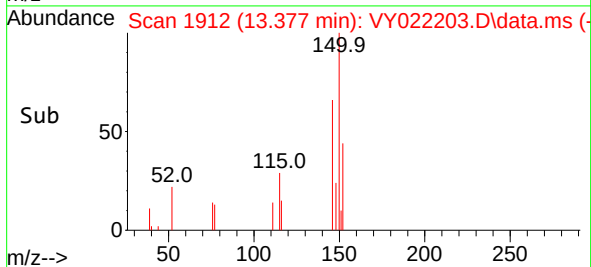
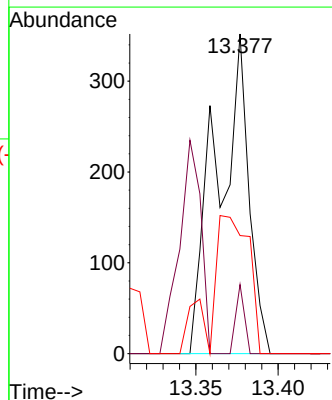
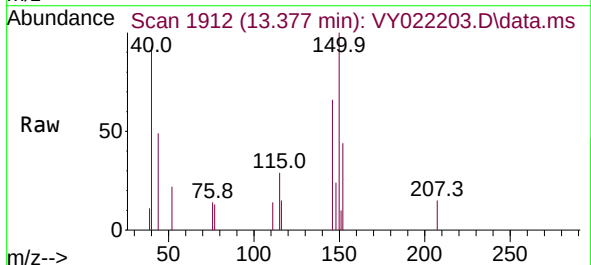
Instrument :
MSVOA_Y
ClientSampleId :
72-12016

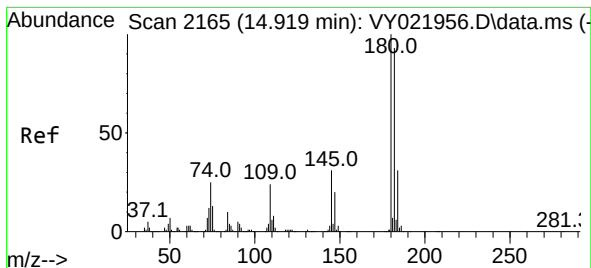
Tgt Ion: 75 Resp: 7611
Ion Ratio Lower Upper
75 100
53 0.0 66.0 99.0#
89 0.0 37.2 55.8#



#88
1,4-Dichlorobenzene
Concen: 1.029 ug/l
RT: 13.377 min Scan# 1912
Delta R.T. 0.012 min
Lab File: VY022203.D
Acq: 08 May 2025 11:30

Tgt Ion:146 Resp: 473
Ion Ratio Lower Upper
146 100
111 5.9 19.2 57.6#
148 52.0 32.0 96.0





#93

1,2,4-Trichlorobenzene

Concen: 1.413 ug/l

RT: 14.925 min Scan# 2165

Delta R.T. 0.006 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

Instrument :

MSVOA_Y

ClientSampleId :

72-12016

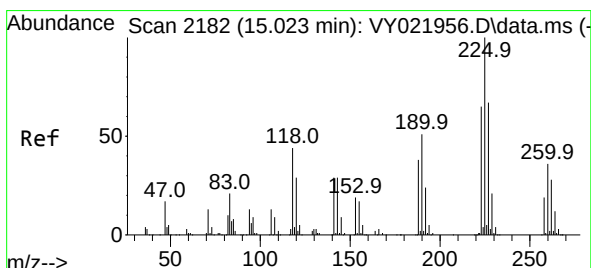
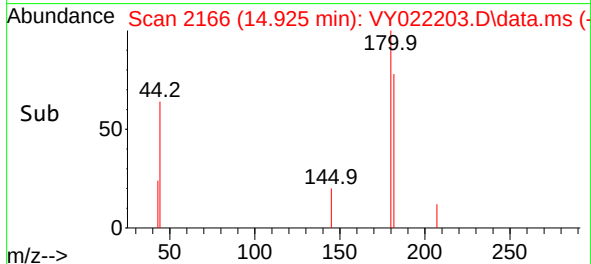
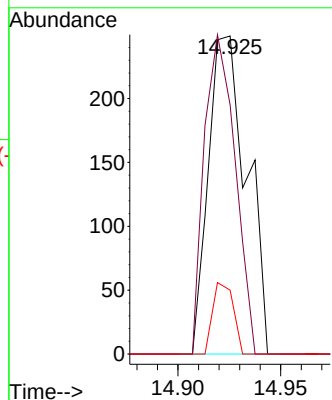
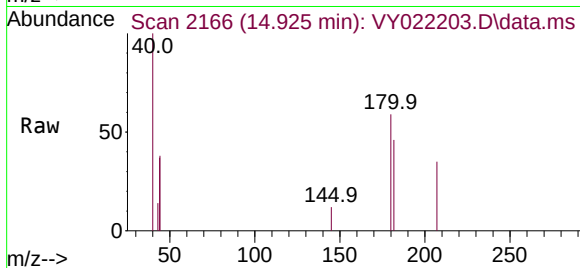
Tgt Ion:180 Resp: 324

Ion Ratio Lower Upper

180 100

182 80.2 47.1 141.4

145 12.0 15.0 45.0#



#94

Hexachlorobutadiene

Concen: 1.304 ug/l

RT: 15.029 min Scan# 2183

Delta R.T. 0.006 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

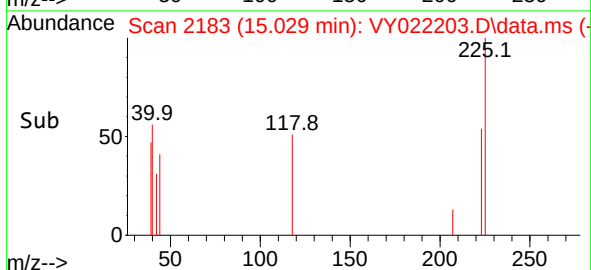
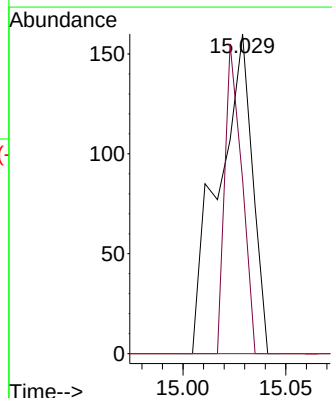
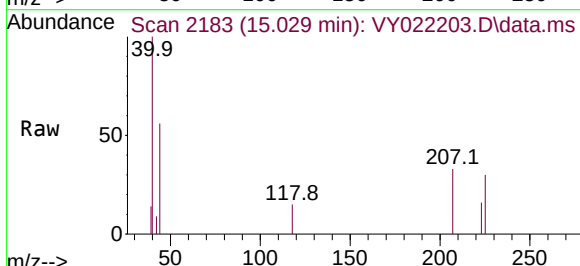
Tgt Ion:225 Resp: 184

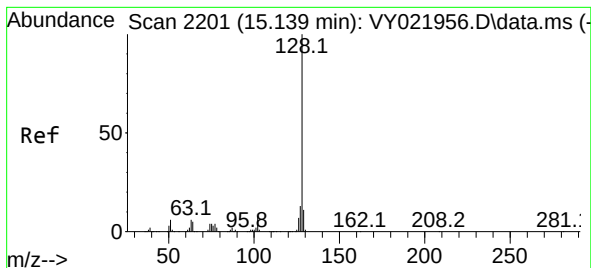
Ion Ratio Lower Upper

225 100

223 48.4 31.9 95.5

227 0.0 32.3 96.9#





#95

Naphthalene

Concen: 1.278 ug/l

RT: 15.151 min Scan# 21

Delta R.T. 0.012 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

Instrument :

MSVOA_Y

ClientSampleId :

72-12016

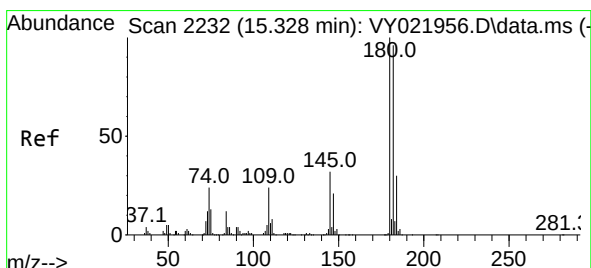
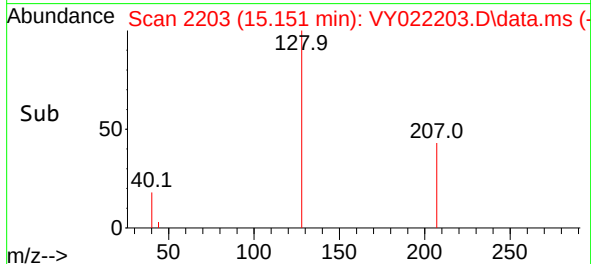
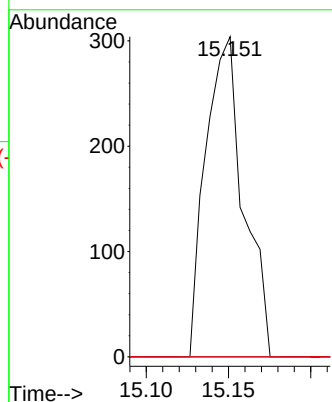
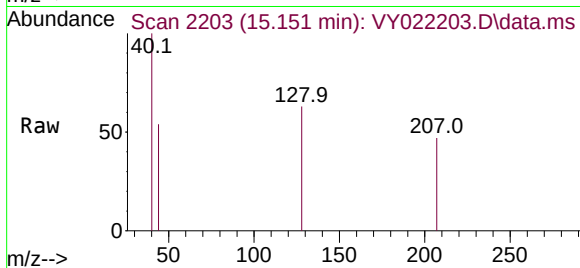
Tgt Ion:128 Resp: 487

Ion Ratio Lower Upper

128 100

127 0.0 10.6 16.0#

129 0.0 8.9 13.3#



#96

1,2,3-Trichlorobenzene

Concen: 1.778 ug/l

RT: 15.334 min Scan# 2233

Delta R.T. 0.006 min

Lab File: VY022203.D

Acq: 08 May 2025 11:30

Tgt Ion:180 Resp: 352

Ion Ratio Lower Upper

180 100

182 72.2 48.1 144.4

145 19.0 16.0 48.0

