

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY082525\
 Data File : VY023207.D
 Acq On : 25 Aug 2025 12:36
 Operator : SY/MD
 Sample : Q2926-01
 Misc : 5.44g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Aug 25 23:49:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 13 02:10:11 2025
 Response via : Initial Calibration

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

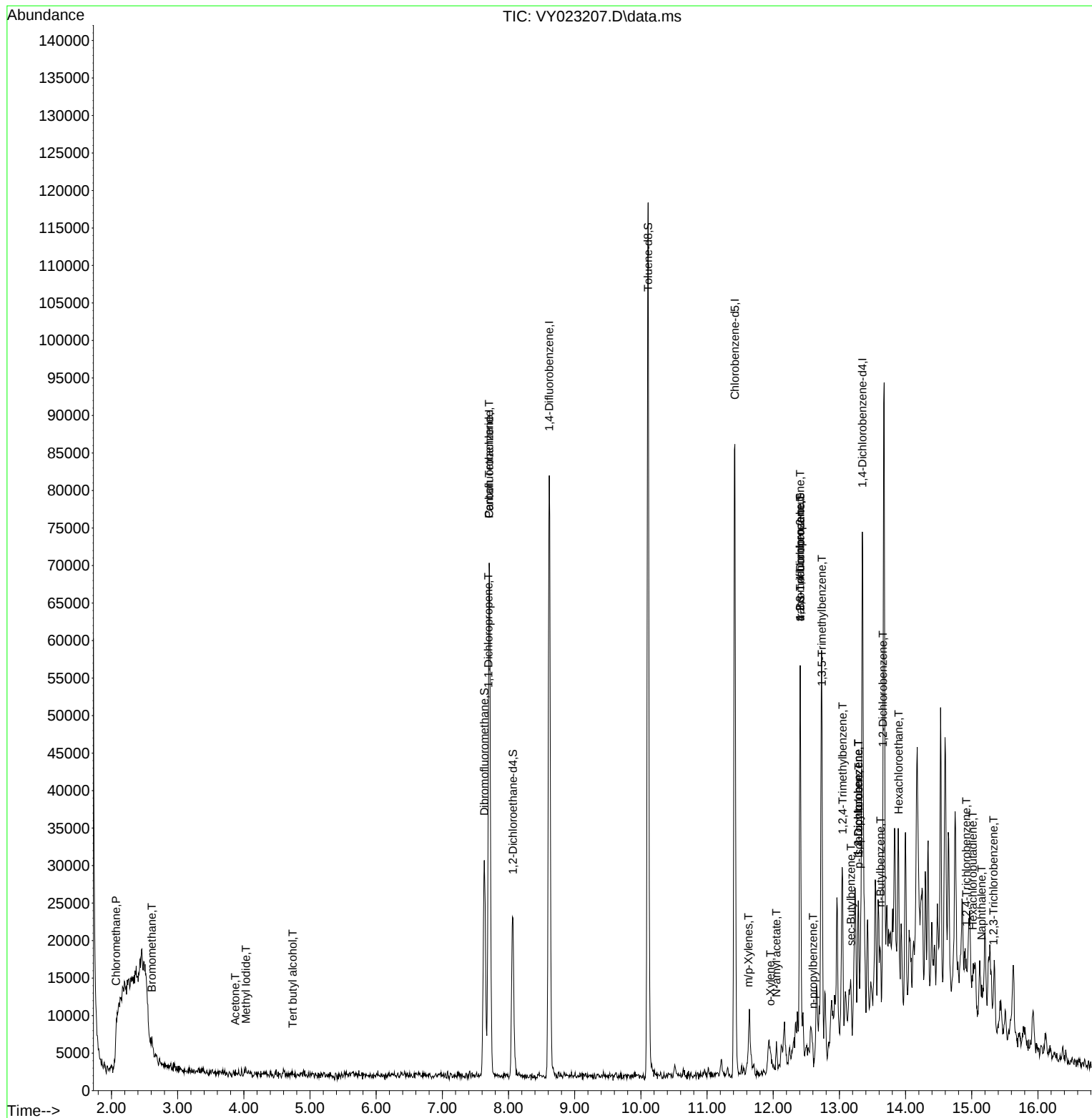
Internal Standards						
1) Pentafluorobenzene	7.707	168	56335	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	71733	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	47813	50.000	ug/l	0.01
72) 1,4-Dichlorobenzene-d4	13.346	152	14420	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	17509	32.611	ug/l	0.01
Spiked Amount	50.000	Range	50 - 163	Recovery	=	65.220%
35) Dibromofluoromethane	7.634	113	20706	48.240	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	96.480%
50) Toluene-d8	10.109	98	79230	47.250	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.500%
62) 4-Bromofluorobenzene	12.408	95	15436	28.624	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	57.240%
Target Compounds						
					Qvalue	
3) Chloromethane	2.068	50	886	1.190	ug/l	96
5) Bromomethane	2.611	94	1386	2.016	ug/l #	53
10) Methyl Iodide	4.031	142	862	1.446	ug/l #	47
11) Tert butyl alcohol	4.738	59	59	1.604	ug/l #	71
16) Acetone	3.873	43	259	2.227	ug/l #	41
20) Methylene Chloride	4.610	84	407	Below Cal	#	49
36) 1,1-Dichloropropene	7.695	75	4366	6.844	ug/l #	46
38) Carbon Tetrachloride	7.707	117	5279	7.619	ug/l #	16
68) m/p-Xylenes	11.627	106	736	1.062	ug/l #	60
69) o-Xylene	11.956	106	753	1.160	ug/l	96
74) N-amyl acetate	12.048	43	576	2.669	ug/l #	63
76) 1,2,3-Trichloropropane	12.408	75	7938	57.039	ug/l #	100
78) n-propylbenzene	12.603	91	2492	2.057	ug/l	94
80) 1,3,5-Trimethylbenzene	12.737	105	4135	5.027	ug/l	92
81) trans-1,4-Dichloro-2-b...	12.408	75	7938	138.073	ug/l #	14
84) 1,2,4-Trimethylbenzene	13.048	105	11229	13.714	ug/l	91
85) sec-Butylbenzene	13.176	105	2969	2.721	ug/l	84
86) p-Isopropyltoluene	13.292	119	1868	2.062	ug/l	93
87) 1,3-Dichlorobenzene	13.285	146	775	1.619	ug/l	78
88) 1,4-Dichlorobenzene	13.285	146	775	1.632	ug/l	80
89) n-Butylbenzene	13.621	91	3294	3.959	ug/l #	74
90) Hexachloroethane	13.895	117	1219	6.574	ug/l #	13
91) 1,2-Dichlorobenzene	13.657	146	691	1.646	ug/l #	26
93) 1,2,4-Trichlorobenzene	14.919	180	530	2.134	ug/l #	43
94) Hexachlorobutadiene	15.017	225	235	1.610	ug/l #	50
95) Naphthalene	15.151	128	1733	4.093	ug/l #	90
96) 1,2,3-Trichlorobenzene	15.328	180	317	1.481	ug/l #	1

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

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Quant Time: Aug 25 23:49:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y081225S.M
Quant Title : SW846 8260
QLast Update : Wed Aug 13 02:10:11 2025
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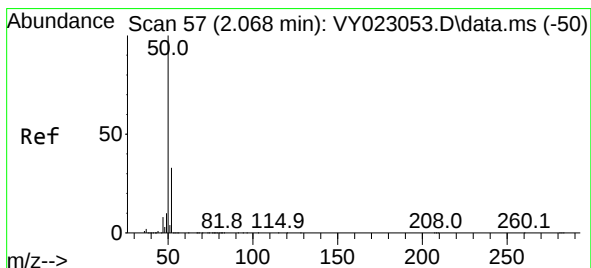
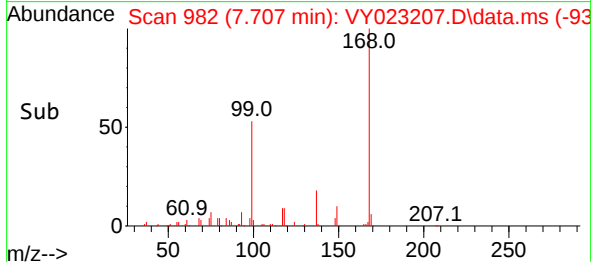
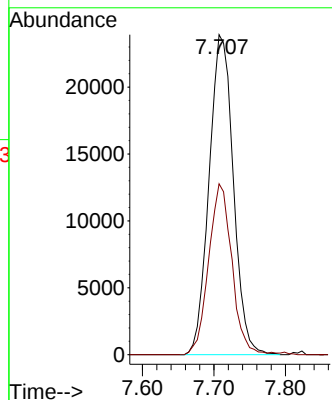
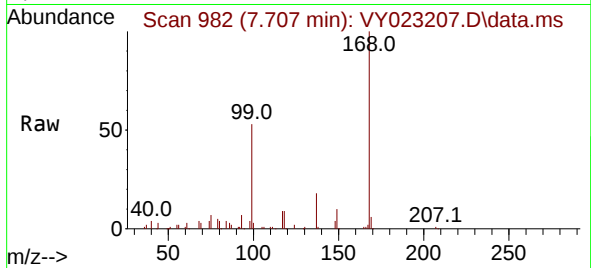




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

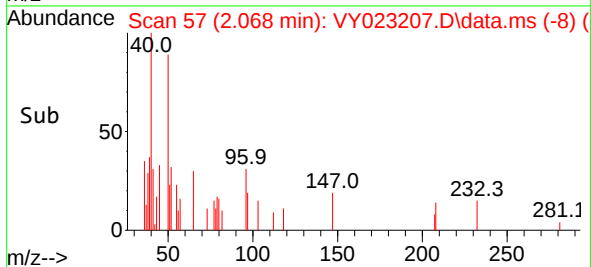
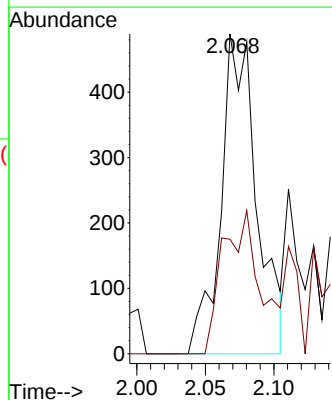
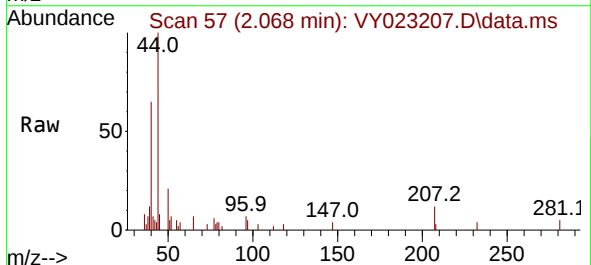
Instrument :
MSVOA_Y
ClientSampleId :

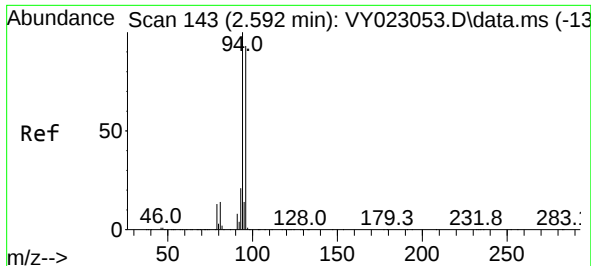
Tgt Ion:168 Resp: 56335
Ion Ratio Lower Upper
168 100
99 53.4 42.8 64.2



#3
Chloromethane
Concen: 1.190 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

Tgt Ion: 50 Resp: 886
Ion Ratio Lower Upper
50 100
52 35.8 26.7 40.1

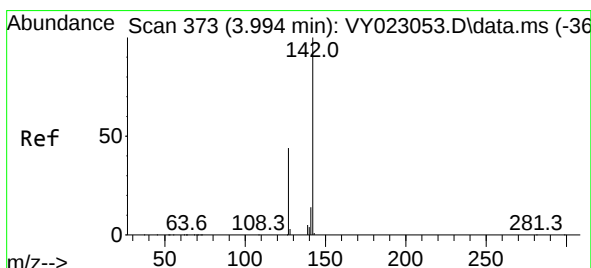
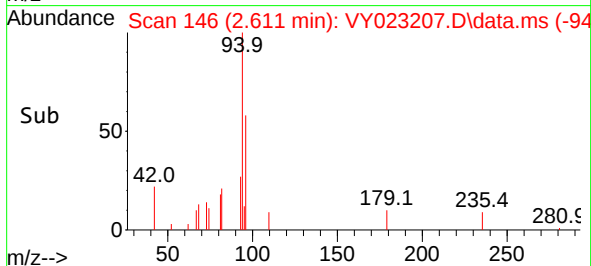
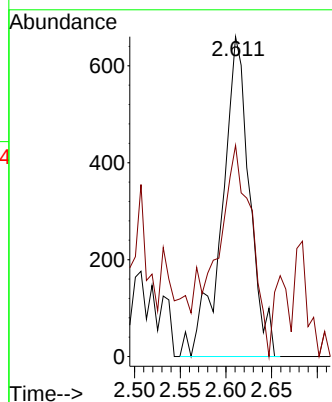
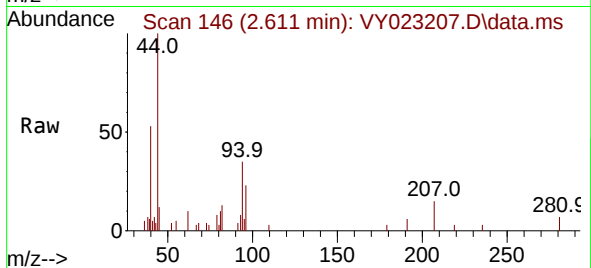




#5
Bromomethane
Concen: 2.016 ug/l
RT: 2.611 min Scan# 143
Delta R.T. 0.018 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

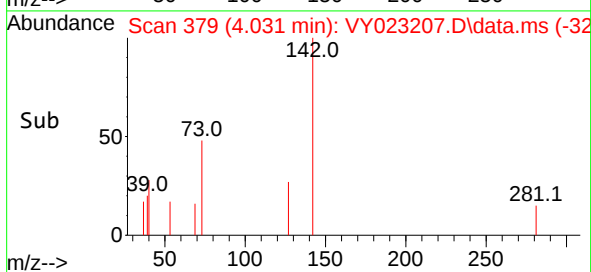
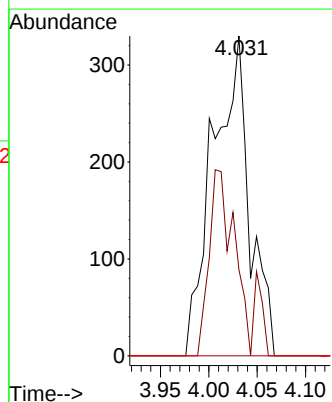
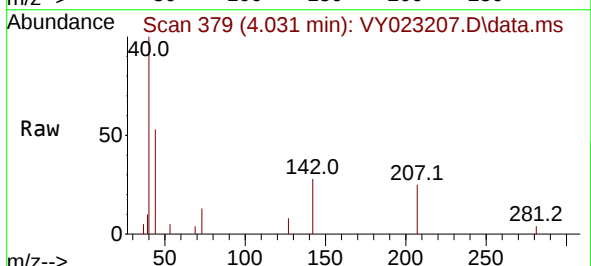
Instrument :
MSVOA_Y
ClientSampleId :

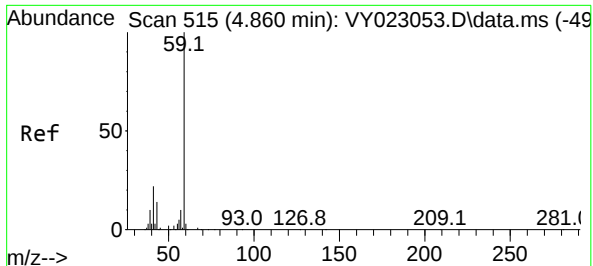
Tgt Ion: 94 Resp: 1386
Ion Ratio Lower Upper
94 100
96 48.0 74.6 112.0#



#10
Methyl Iodide
Concen: 1.446 ug/l
RT: 4.031 min Scan# 379
Delta R.T. 0.037 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

Tgt Ion: 142 Resp: 862
Ion Ratio Lower Upper
142 100
127 6.0 34.9 52.3#
141 0.0 11.3 16.9#





#11

Tert butyl alcohol

Concen: 1.604 ug/l

RT: 4.738 min Scan# 495

Delta R.T. -0.122 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

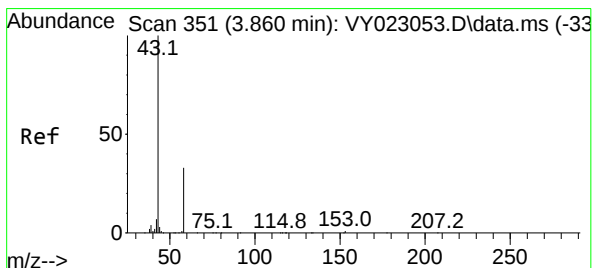
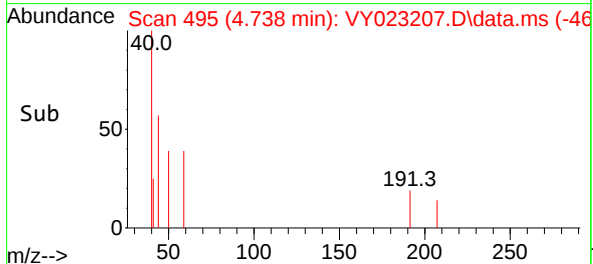
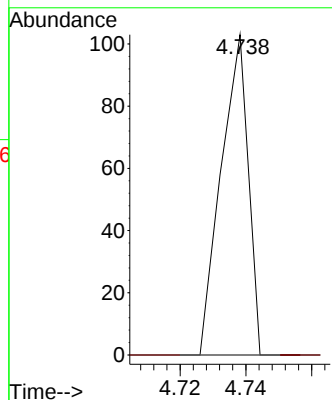
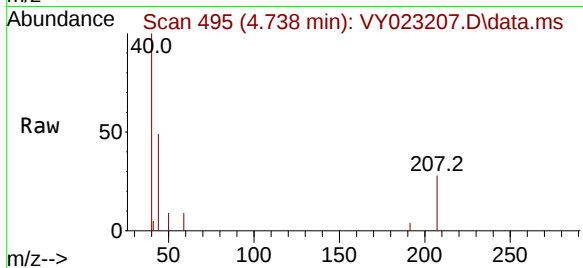
ClientSampleId :

Tgt Ion: 59 Resp: 59

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#16

Acetone

Concen: 2.227 ug/l

RT: 3.873 min Scan# 353

Delta R.T. 0.012 min

Lab File: VY023207.D

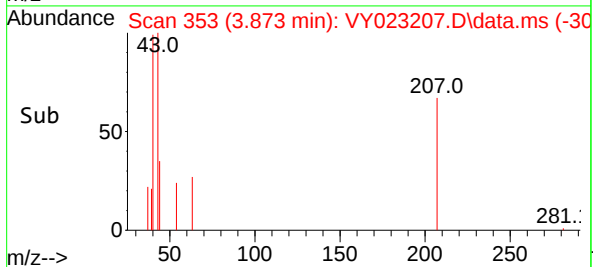
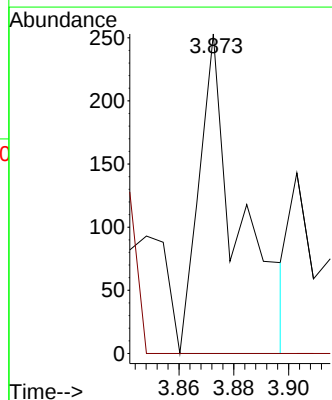
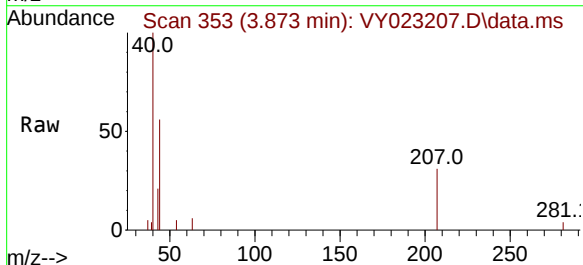
Acq: 25 Aug 2025 12:36

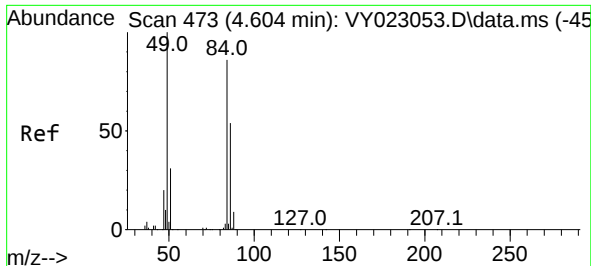
Tgt Ion: 43 Resp: 259

Ion Ratio Lower Upper

43 100

58 0.0 27.1 40.7#





#20

Methylene Chloride

Concen: Below Cal

RT: 4.610 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 84 Resp: 407

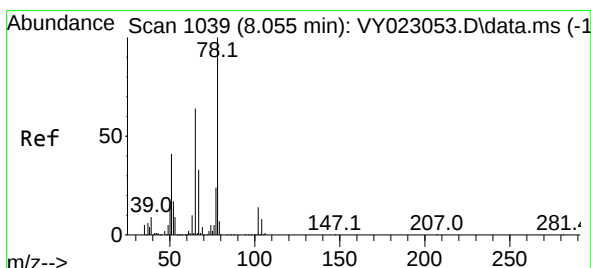
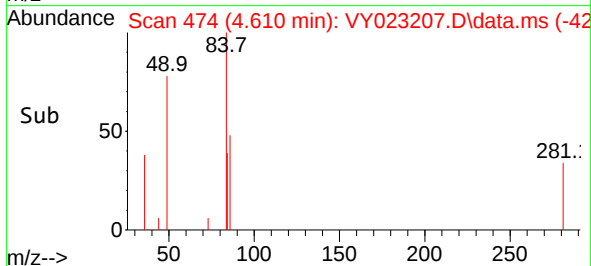
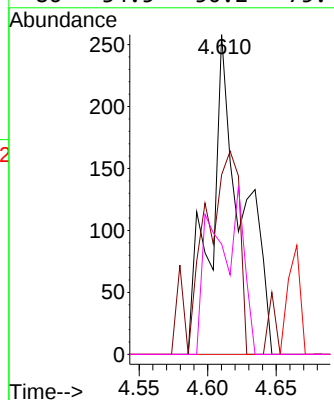
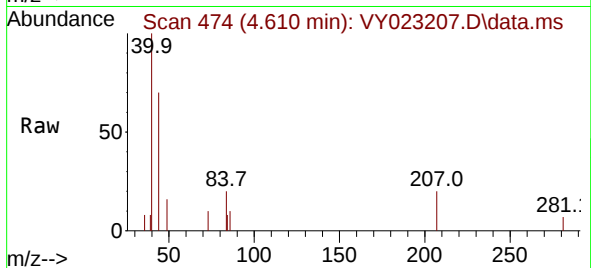
Ion Ratio Lower Upper

84 100

49 56.2 93.0 139.6#

51 0.0 29.0 43.4#

86 34.5 50.2 75.4#



#33

1,2-Dichloroethane-d4

Concen: 32.611 ug/l

RT: 8.067 min Scan# 1041

Delta R.T. 0.012 min

Lab File: VY023207.D

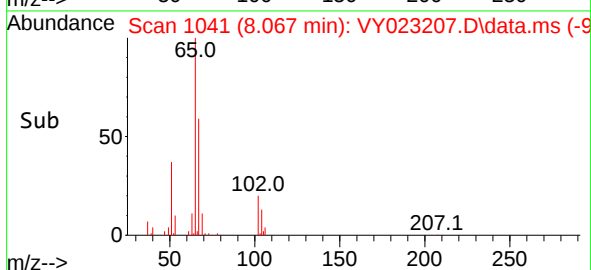
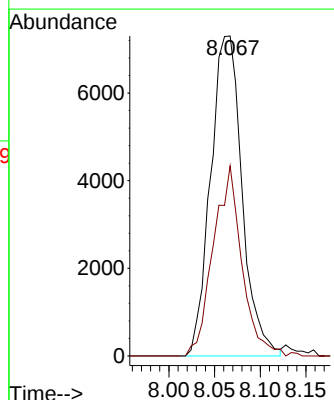
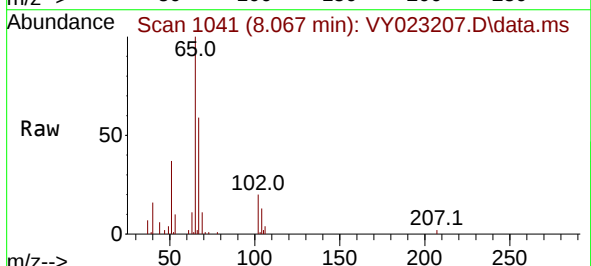
Acq: 25 Aug 2025 12:36

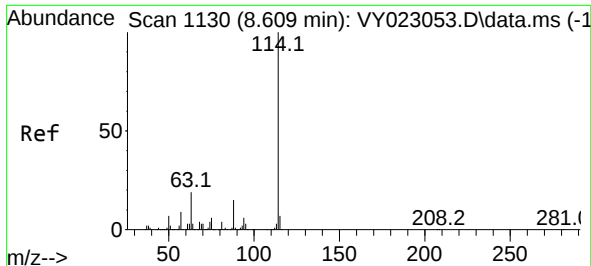
Tgt Ion: 65 Resp: 17509

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

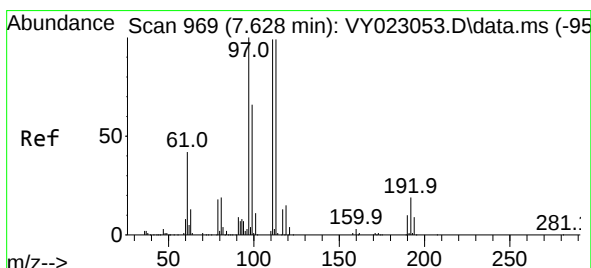
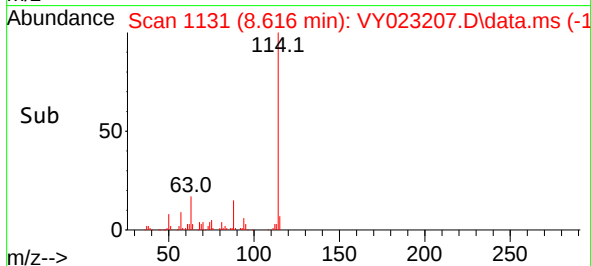
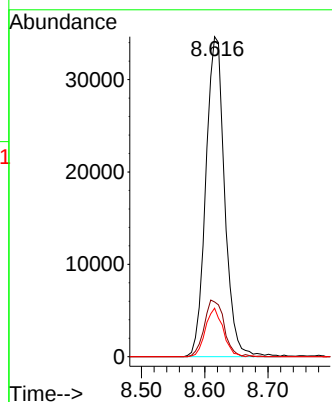
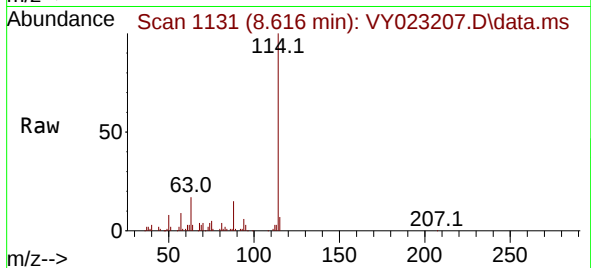
Tgt Ion:114 Resp: 71733

Ion Ratio Lower Upper

114 100

63 17.1 0.0 38.4

88 15.2 0.0 30.0



#35

Dibromofluoromethane

Concen: 48.240 ug/l

RT: 7.634 min Scan# 970

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

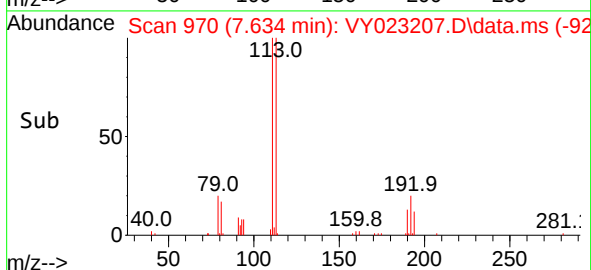
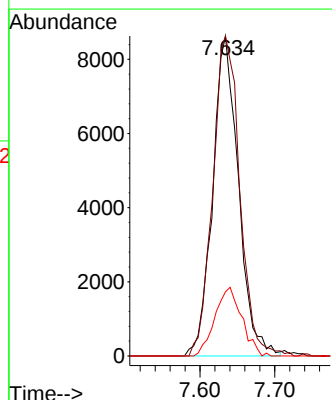
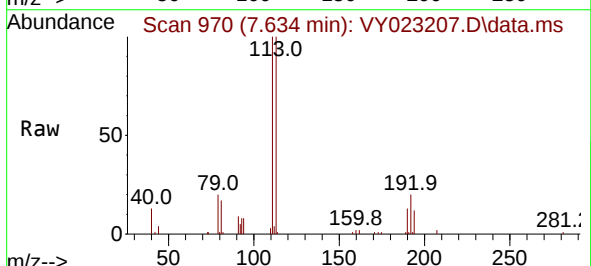
Tgt Ion:113 Resp: 20706

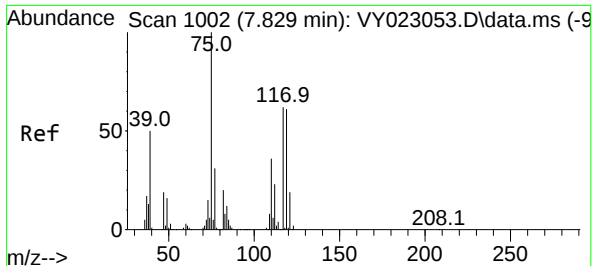
Ion Ratio Lower Upper

113 100

111 104.6 81.1 121.7

192 22.4 16.2 24.4





#36

1,1-Dichloropropene

Concen: 6.844 ug/l

RT: 7.695 min Scan# 91

Delta R.T. -0.134 min

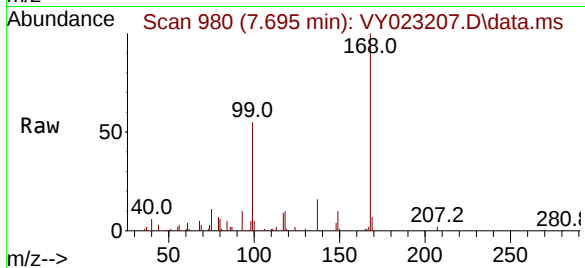
Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

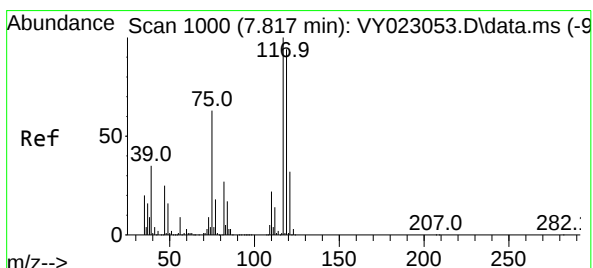
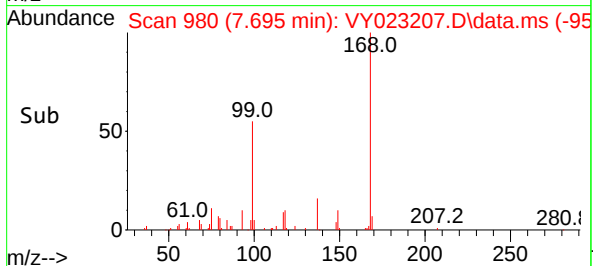
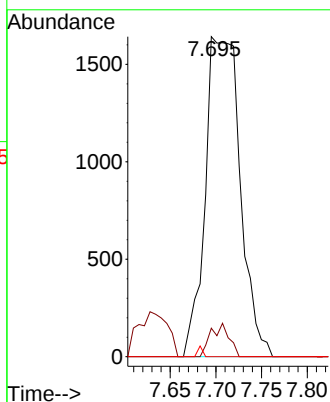
Instrument :

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ClientSampleId :



Tgt Ion:	75	Resp:	4366
Ion	Ratio	Lower	Upper
75	100		
110	5.5	18.1	54.4#
77	0.0	24.6	37.0#



#38

Carbon Tetrachloride

Concen: 7.619 ug/l

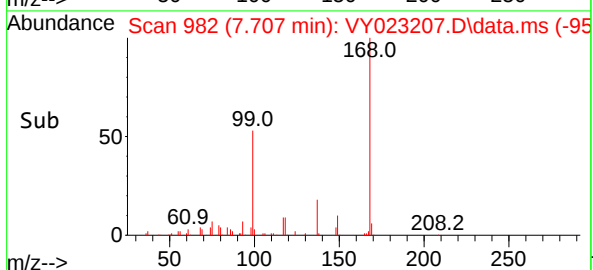
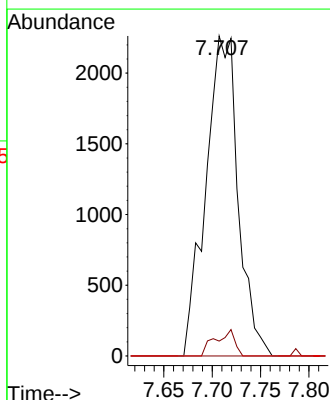
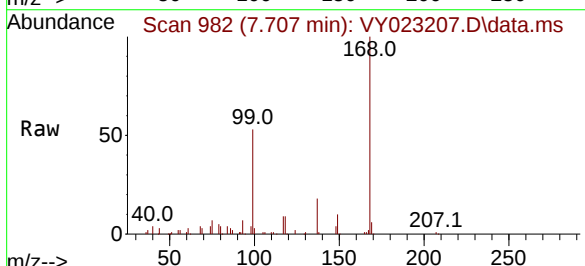
RT: 7.707 min Scan# 982

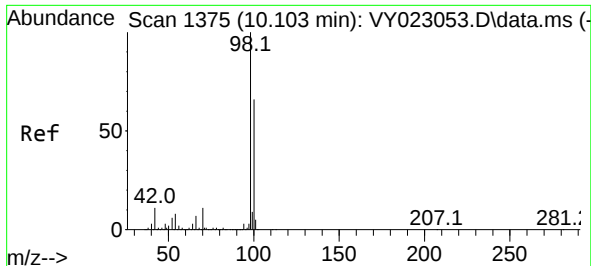
Delta R.T. -0.110 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Tgt Ion:	117	Resp:	5279
Ion	Ratio	Lower	Upper
117	100		
119	4.6	75.6	113.4#
121	0.0	25.8	38.8#

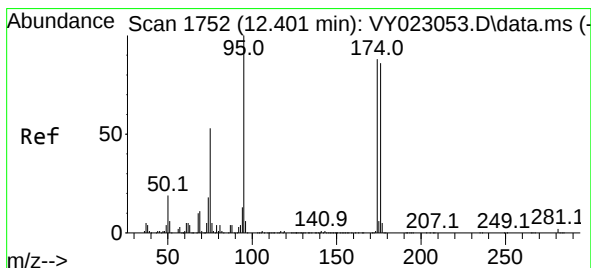
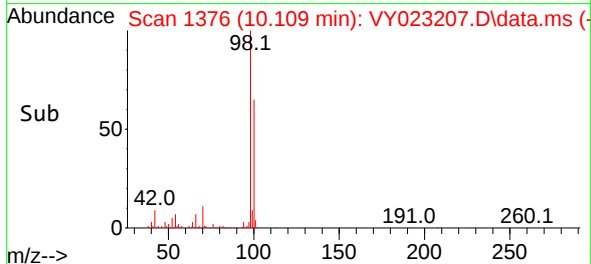
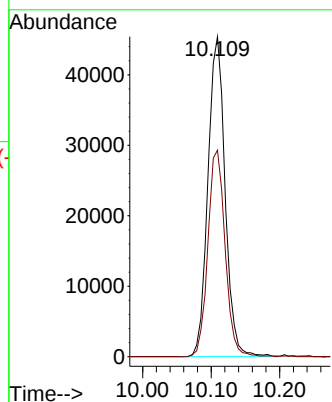
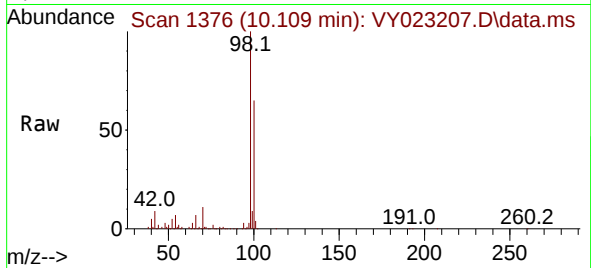




#50
Toluene-d8
Concen: 47.250 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

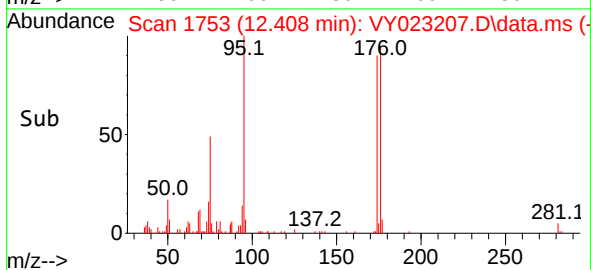
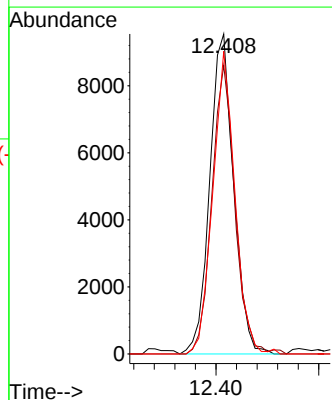
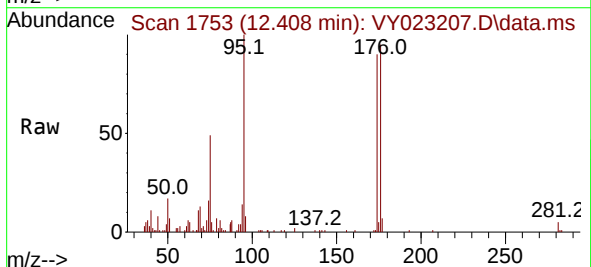
Instrument :
MSVOA_Y
ClientSampleId :

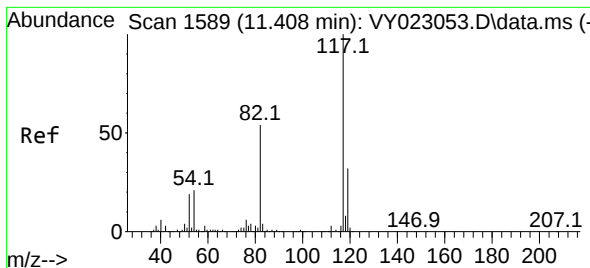
Tgt Ion: 98 Resp: 79230
Ion Ratio Lower Upper
98 100
100 64.7 52.3 78.5



#62
4-Bromofluorobenzene
Concen: 28.624 ug/l
RT: 12.408 min Scan# 1753
Delta R.T. 0.006 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

Tgt Ion: 95 Resp: 15436
Ion Ratio Lower Upper
95 100
174 86.9 0.0 171.6
176 87.6 0.0 167.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 117

Delta R.T. 0.012 min

Lab File: VY023207.D

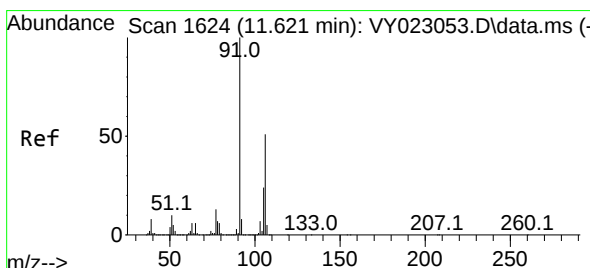
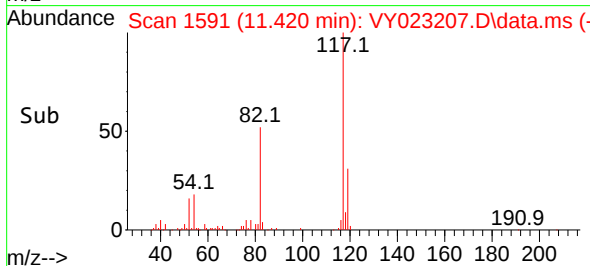
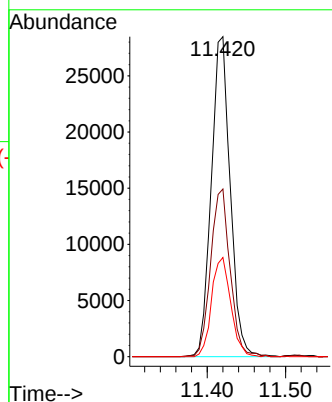
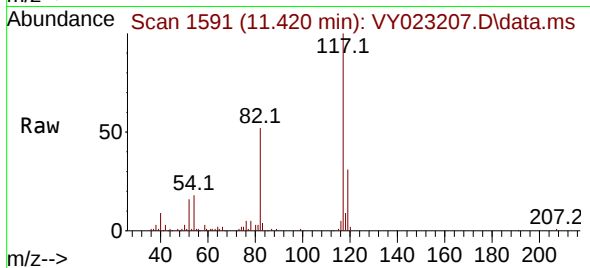
Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	117	Resp:	47813
Ion Ratio	Lower	Upper	
117	100		
82	52.4	43.4	65.0
119	31.0	25.6	38.4



#68

m/p-Xylenes

Concen: 1.062 ug/l

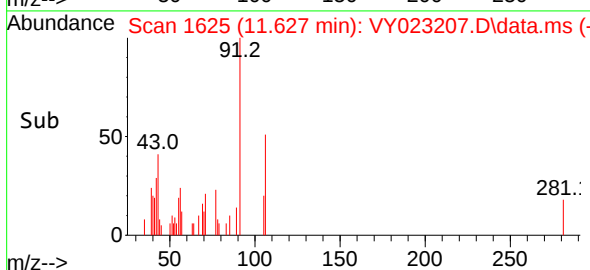
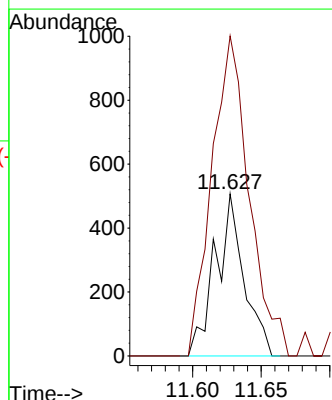
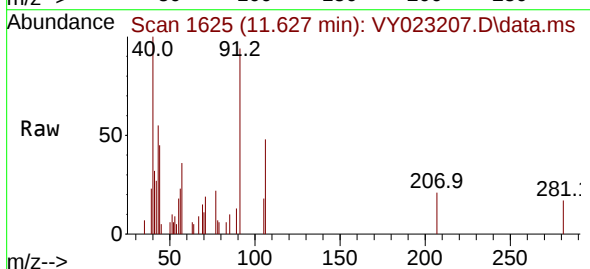
RT: 11.627 min Scan# 1625

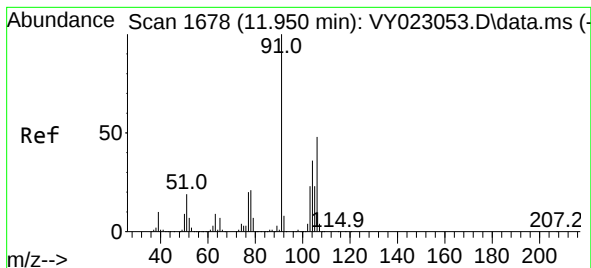
Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Tgt Ion:	106	Resp:	736
Ion Ratio	Lower	Upper	
106	100		
91	258.2	158.6	238.0#





#69

o-Xylene

Concen: 1.160 ug/l

RT: 11.956 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

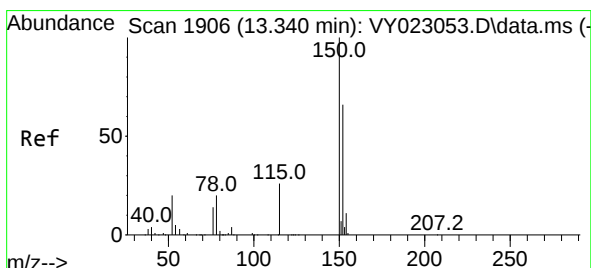
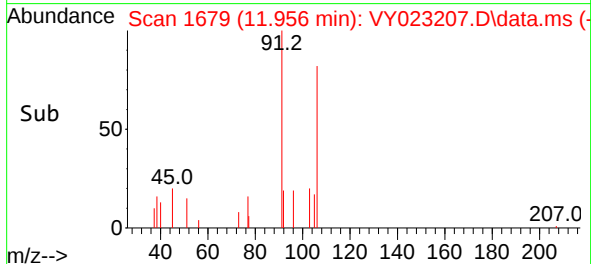
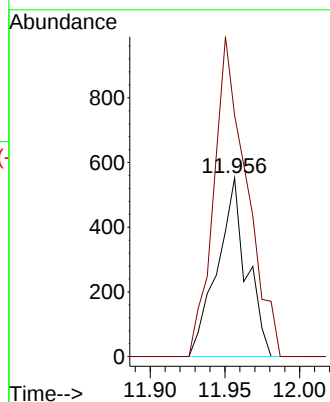
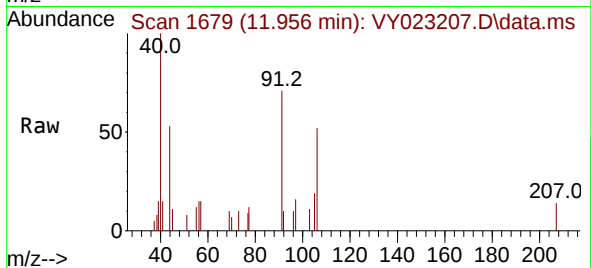
ClientSampleId :

Tgt Ion:106 Resp: 753

Ion Ratio Lower Upper

106 100

91 200.7 103.2 309.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

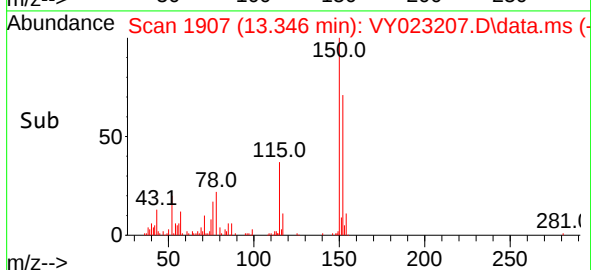
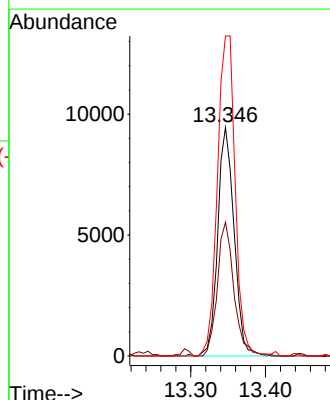
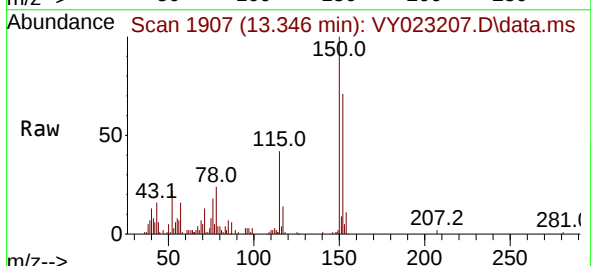
Tgt Ion:152 Resp: 14420

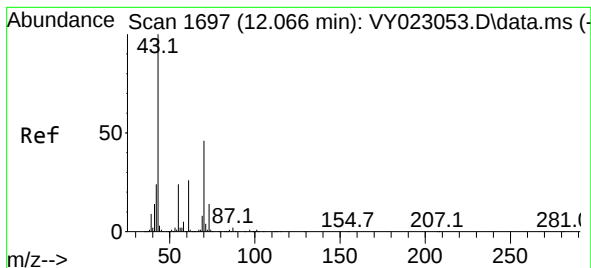
Ion Ratio Lower Upper

152 100

115 59.3 28.2 84.6

150 151.5 0.0 348.0





#74

N-amy1 acetate

Concen: 2.669 ug/l

RT: 12.048 min Scan# 1753

Delta R.T. -0.018 min

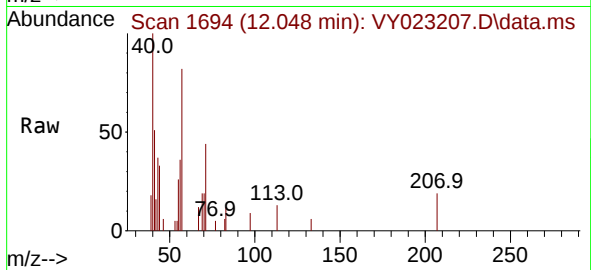
Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :



Tgt Ion: 43 Resp: 576

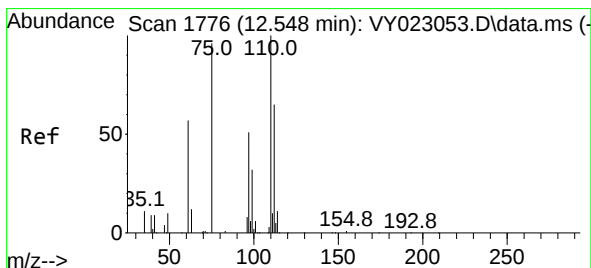
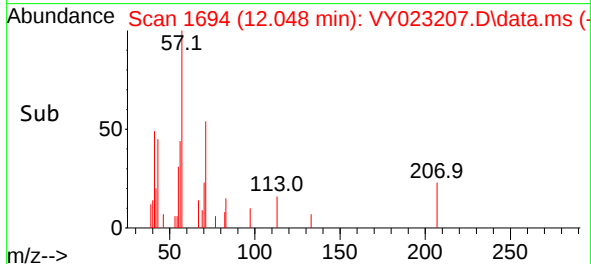
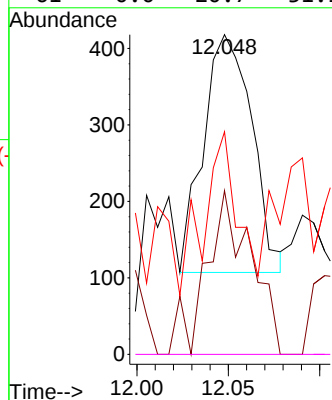
Ion Ratio Lower Upper

43 100

70 64.1 37.5 56.3#

55 47.9 20.7 31.1#

61 0.0 20.7 31.1#



#76

1,2,3-Trichloropropane

Concen: 57.039 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.140 min

Lab File: VY023207.D

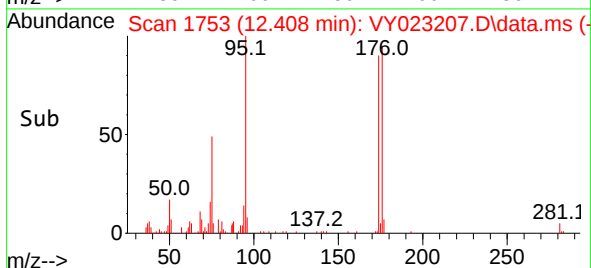
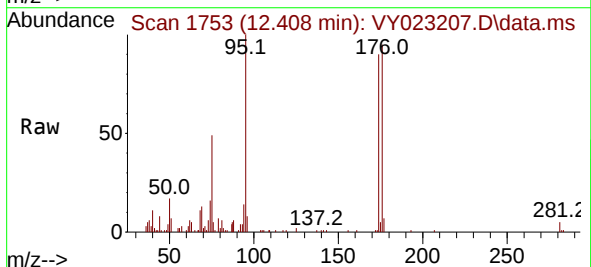
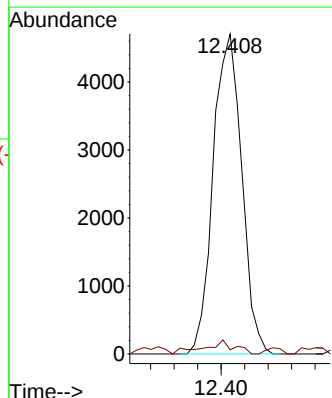
Acq: 25 Aug 2025 12:36

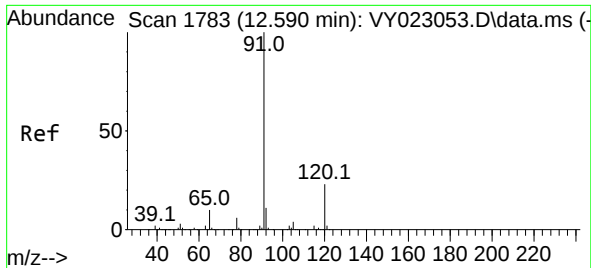
Tgt Ion: 75 Resp: 7938

Ion Ratio Lower Upper

75 100

77 4.5 0.0 0.0#

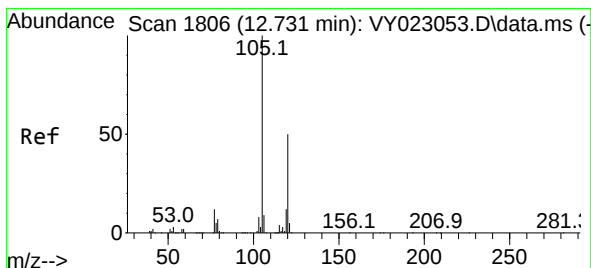
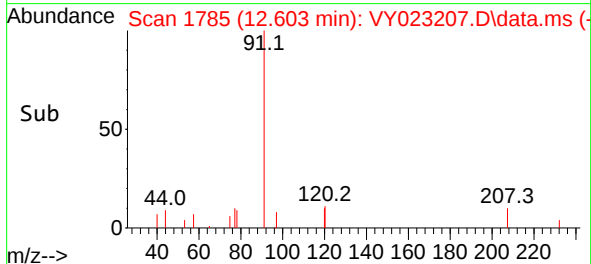
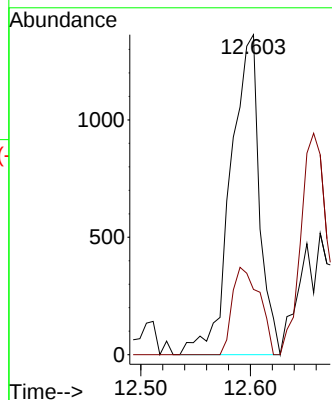
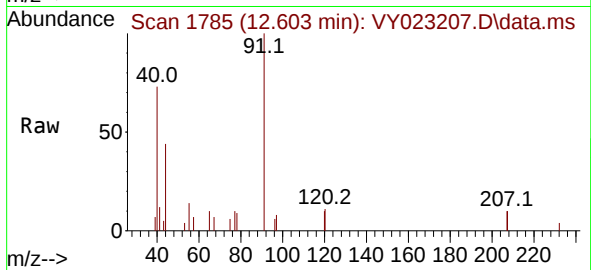




#78
n-propylbenzene
Concen: 2.057 ug/l
RT: 12.603 min Scan# 1785
Delta R.T. 0.012 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

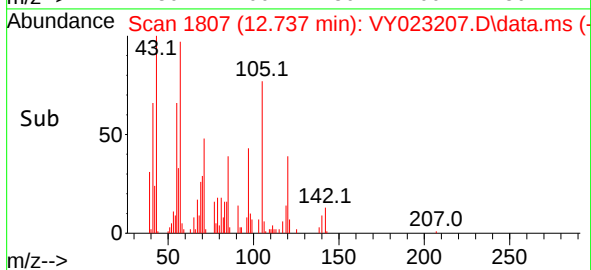
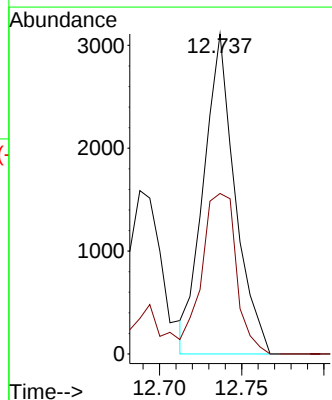
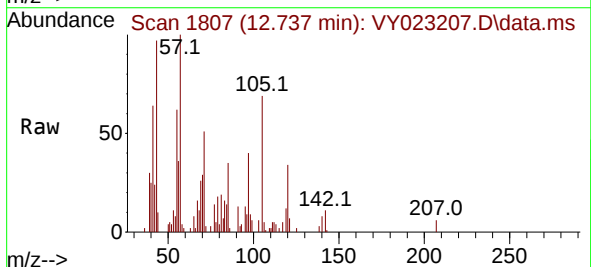
Instrument :
MSVOA_Y
ClientSampleId :

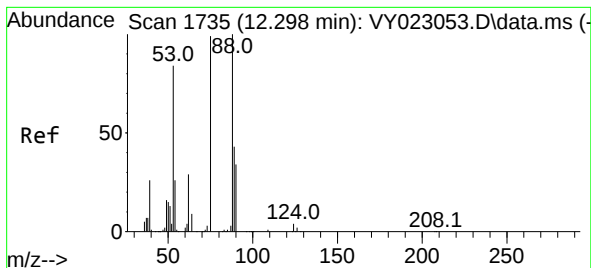
Tgt Ion: 91 Resp: 2492
Ion Ratio Lower Upper
91 100
120 25.8 11.5 34.5



#80
1,3,5-Trimethylbenzene
Concen: 5.027 ug/l
RT: 12.737 min Scan# 1807
Delta R.T. 0.006 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

Tgt Ion: 105 Resp: 4135
Ion Ratio Lower Upper
105 100
120 55.0 24.8 74.4

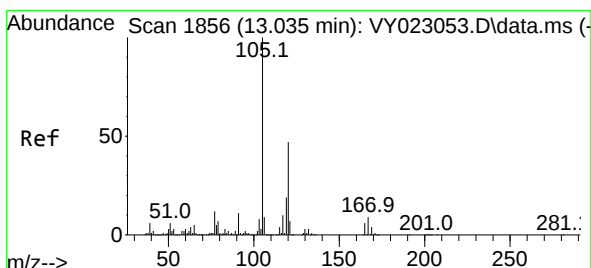
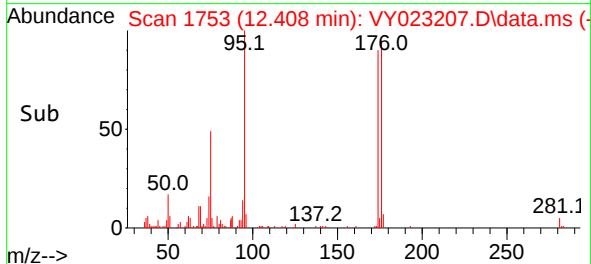
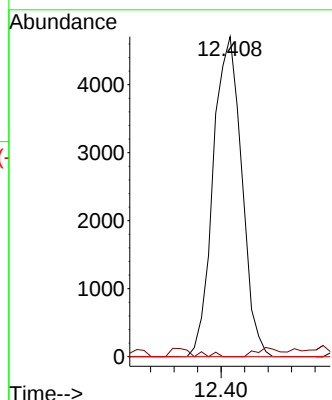
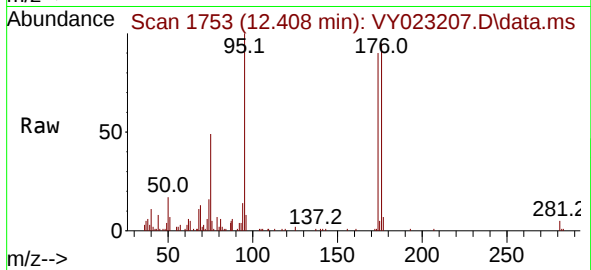




#81
 trans-1,4-Dichloro-2-butene
 Concen: 138.073 ug/l
 RT: 12.408 min Scan# 1753
 Delta R.T. 0.110 min
 Lab File: VY023207.D
 Acq: 25 Aug 2025 12:36

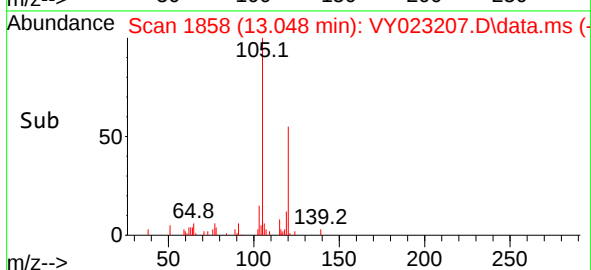
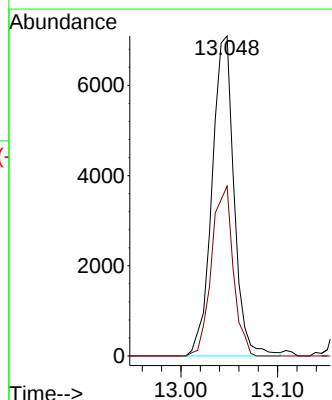
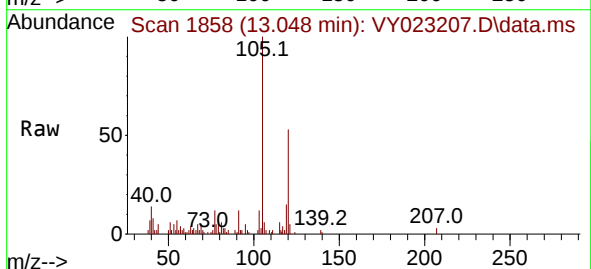
Instrument :
 MSVOA_Y
 ClientSampleId :

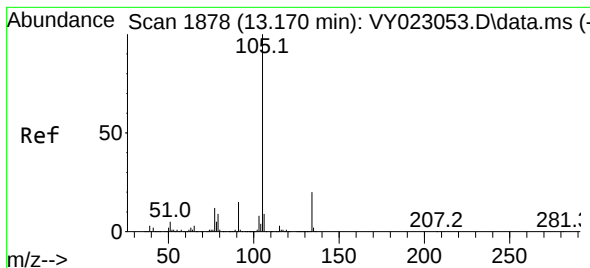
Tgt Ion: 75 Resp: 7938
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.8 106.2#
 89 0.0 38.1 57.1#



#84
 1,2,4-Trimethylbenzene
 Concen: 13.714 ug/l
 RT: 13.048 min Scan# 1858
 Delta R.T. 0.012 min
 Lab File: VY023207.D
 Acq: 25 Aug 2025 12:36

Tgt Ion: 105 Resp: 11229
 Ion Ratio Lower Upper
 105 100
 120 52.2 23.0 69.0

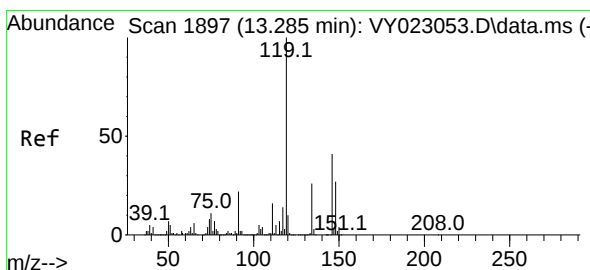
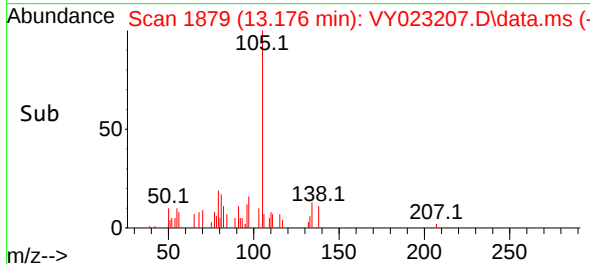
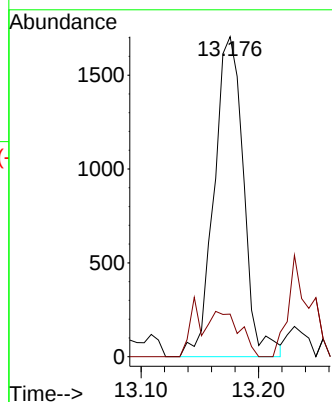
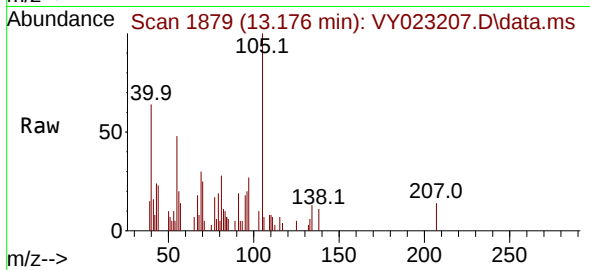




#85
sec-Butylbenzene
Concen: 2.721 ug/l
RT: 13.176 min Scan# 1878
Delta R.T. 0.006 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

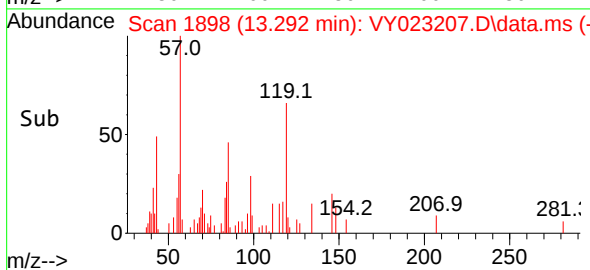
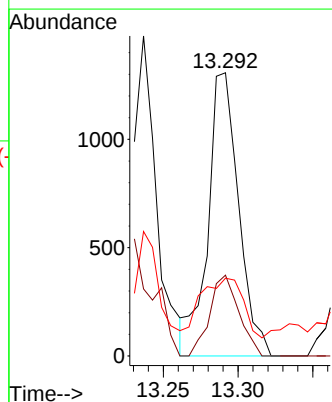
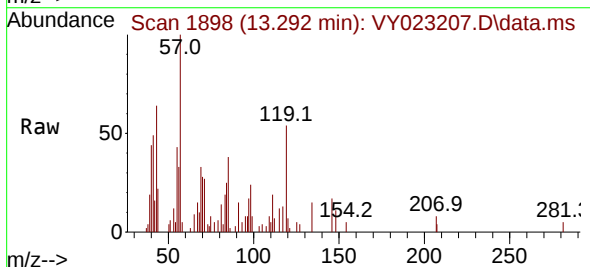
Instrument :
MSVOA_Y
ClientSampleId :

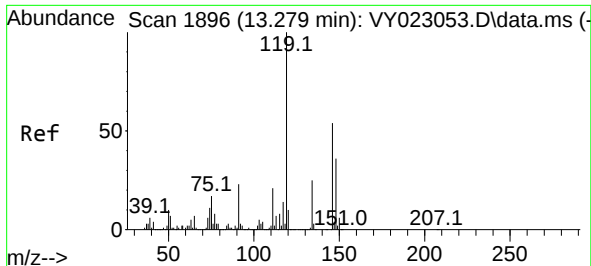
Tgt Ion:105 Resp: 2969
Ion Ratio Lower Upper
105 100
134 12.7 10.2 30.4



#86
p-Isopropyltoluene
Concen: 2.062 ug/l
RT: 13.292 min Scan# 1898
Delta R.T. 0.006 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

Tgt Ion:119 Resp: 1868
Ion Ratio Lower Upper
119 100
134 27.1 13.2 39.6
91 28.5 11.3 33.8





#87

1,3-Dichlorobenzene

Concen: 1.619 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

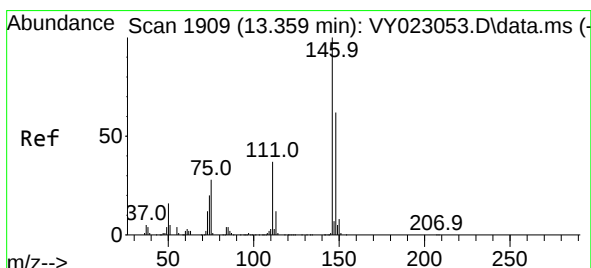
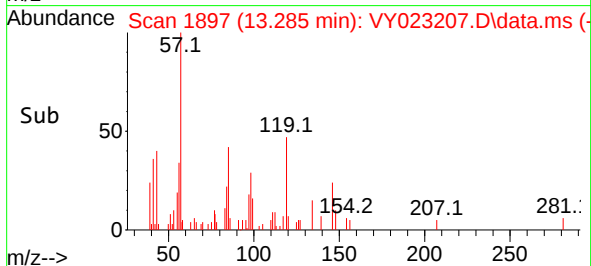
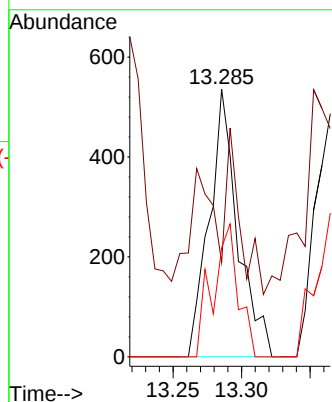
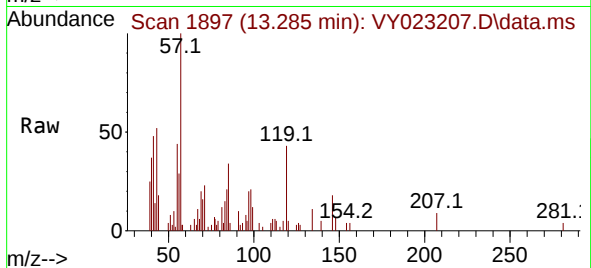
Tgt Ion:146 Resp: 775

Ion Ratio Lower Upper

146 100

111 29.8 19.6 58.7

148 44.3 32.5 97.5



#88

1,4-Dichlorobenzene

Concen: 1.632 ug/l

RT: 13.285 min Scan# 1897

Delta R.T. -0.073 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

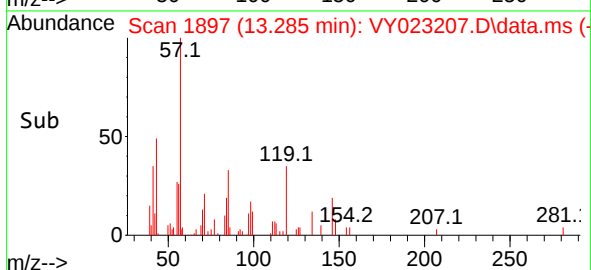
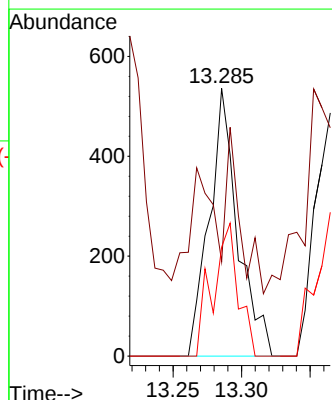
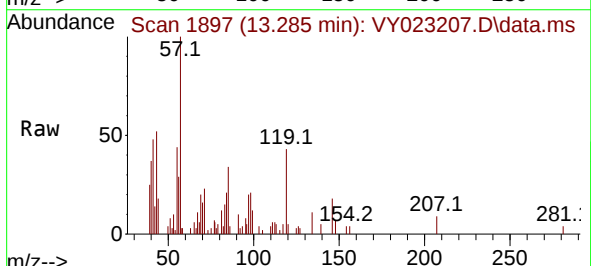
Tgt Ion:146 Resp: 775

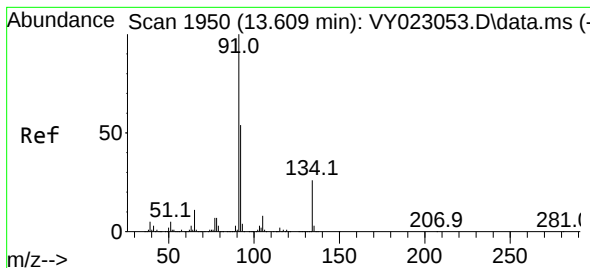
Ion Ratio Lower Upper

146 100

111 29.8 19.1 57.1

148 44.3 31.6 94.7





#89

n-Butylbenzene

Concen: 3.959 ug/l

RT: 13.621 min Scan# 1950

Delta R.T. 0.012 min

Lab File: VY023207.D

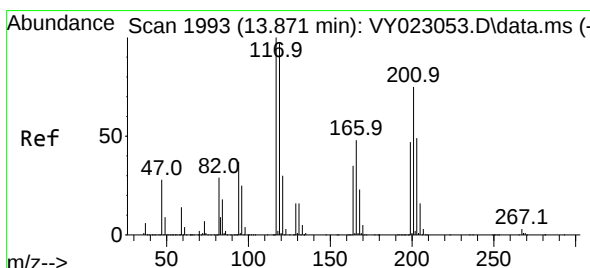
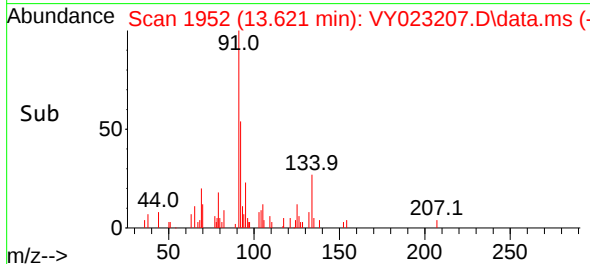
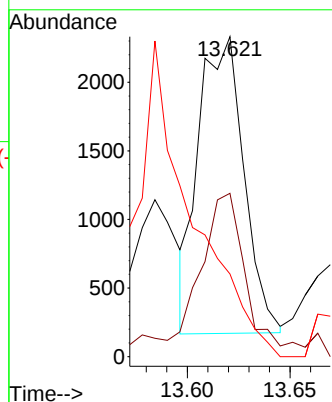
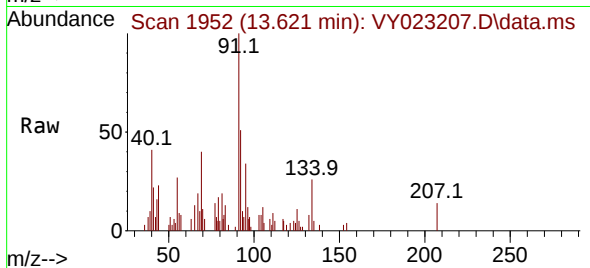
Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion: 91	Resp:	3294
Ion Ratio	Lower	Upper
91	100	
92	63.8	26.9 80.7
134	0.0	13.2 39.5#



#90

Hexachloroethane

Concen: 6.574 ug/l

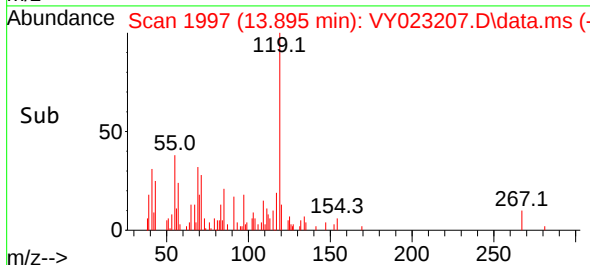
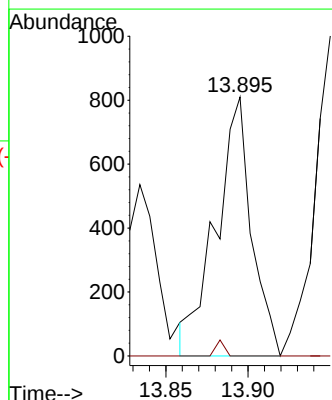
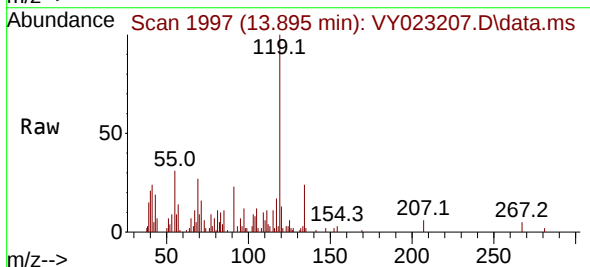
RT: 13.895 min Scan# 1997

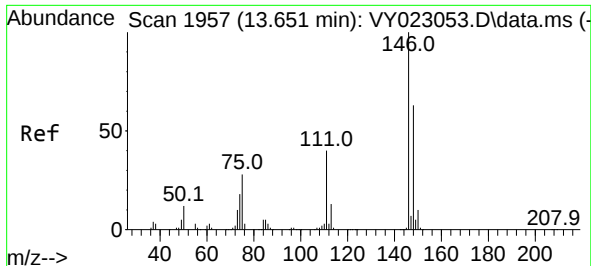
Delta R.T. 0.024 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

Tgt Ion: 117	Resp:	1219
Ion Ratio	Lower	Upper
117	100	
201	1.5	38.4 115.1#





#91

1,2-Dichlorobenzene

Concen: 1.646 ug/l

RT: 13.657 min Scan# 1957

Delta R.T. 0.006 min

Lab File: VY023207.D

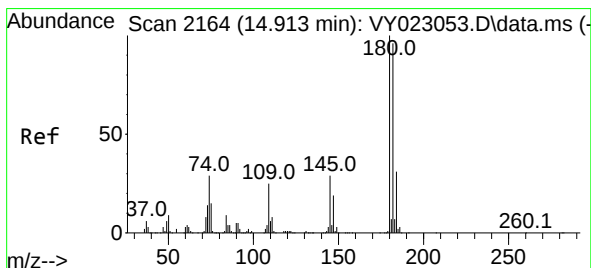
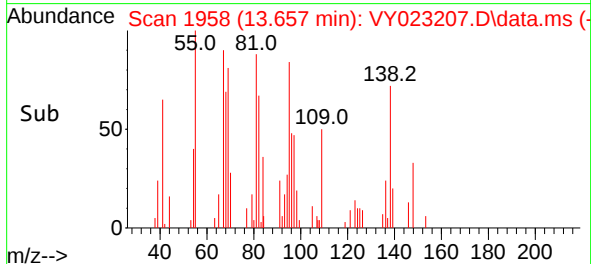
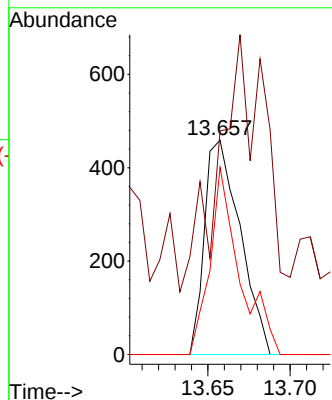
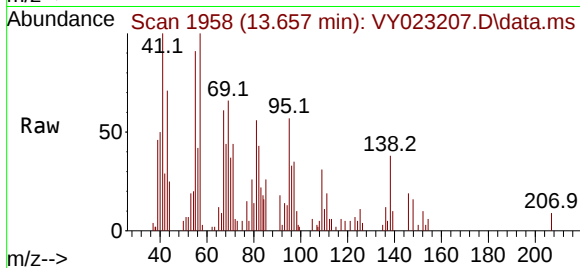
Acq: 25 Aug 2025 12:36

Instrument :

MSVOA_Y

ClientSampleId :

Tgt Ion:	146	Resp:	691
Ion Ratio	Lower	Upper	
146	100		
111	149.8	20.3	60.8#
148	72.6	32.2	96.6



#93

1,2,4-Trichlorobenzene

Concen: 2.134 ug/l

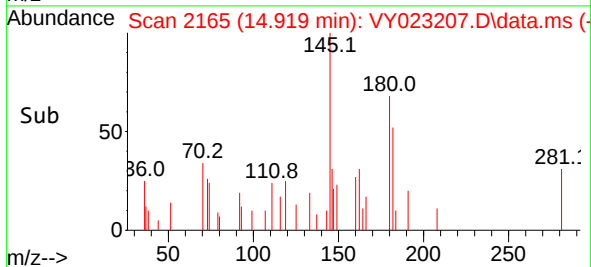
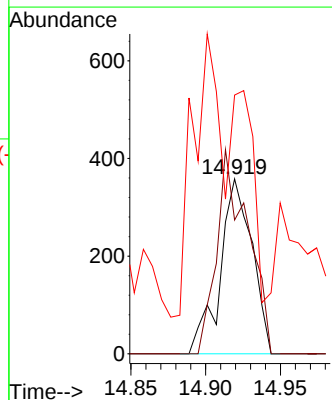
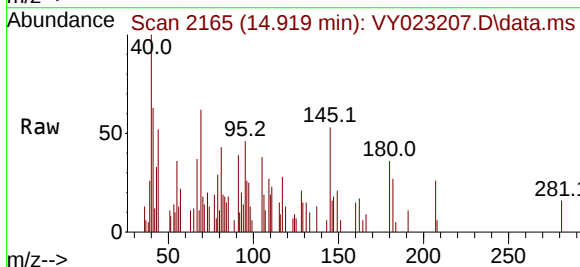
RT: 14.919 min Scan# 2165

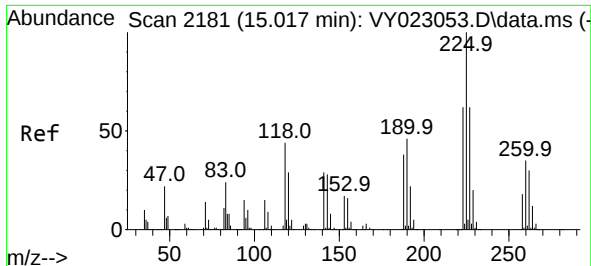
Delta R.T. 0.006 min

Lab File: VY023207.D

Acq: 25 Aug 2025 12:36

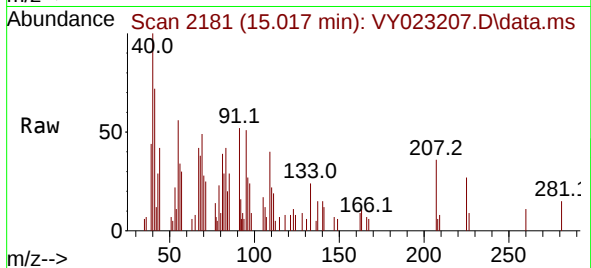
Tgt Ion:	180	Resp:	530
Ion Ratio	Lower	Upper	
180	100		
182	114.3	46.8	140.4
145	120.4	14.4	43.4#



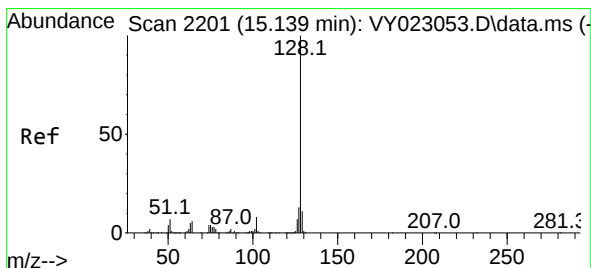
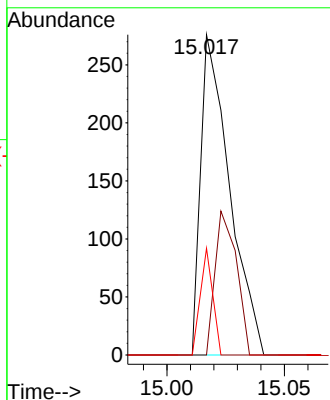
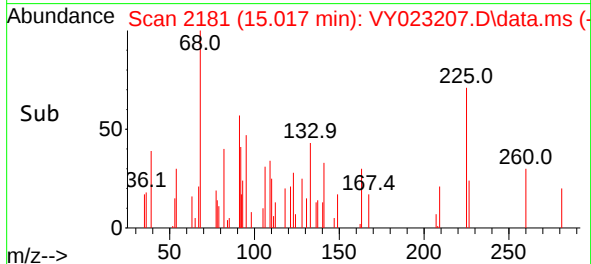


#94
Hexachlorobutadiene
Concen: 1.610 ug/l
RT: 15.017 min Scan# 2181
Delta R.T. 0.000 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36

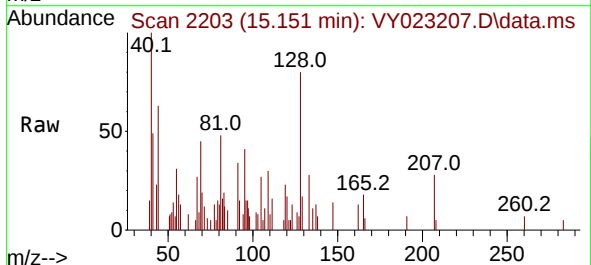
Instrument :
MSVOA_Y
ClientSampleId :



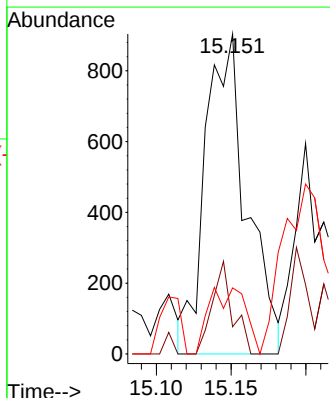
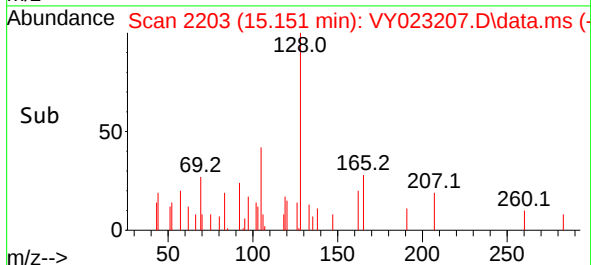
Tgt Ion:225 Resp: 235
Ion Ratio Lower Upper
225 100
223 33.2 31.3 93.8
227 14.5 31.5 94.5#

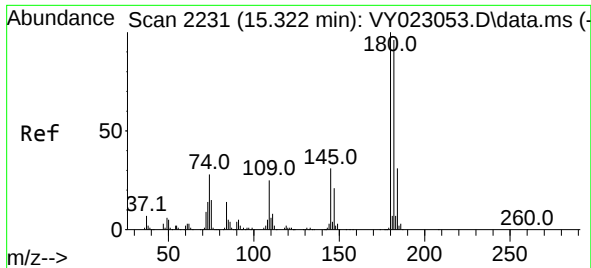


#95
Naphthalene
Concen: 4.093 ug/l
RT: 15.151 min Scan# 2203
Delta R.T. 0.012 min
Lab File: VY023207.D
Acq: 25 Aug 2025 12:36



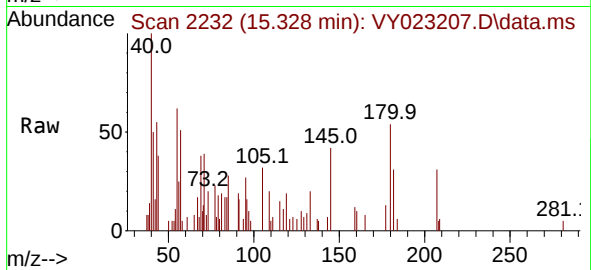
Tgt Ion:128 Resp: 1733
Ion Ratio Lower Upper
128 100
127 14.4 10.4 15.6
129 18.3 9.0 13.4#





#96
 1,2,3-Trichlorobenzene
 Concen: 1.481 ug/l
 RT: 15.328 min Scan# 21
 Delta R.T. 0.006 min
 Lab File: VY023207.D
 Acq: 25 Aug 2025 12:36

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion:180 Resp: 317
 Ion Ratio Lower Upper
 180 100
 182 150.5 47.9 143.7#
 145 241.6 15.9 47.7#

