

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY112425\
 Data File : VY023794.D
 Acq On : 24 Nov 2025 16:48
 Operator : SY/MD
 Sample : Q3711-03
 Misc : 4.56g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 72-12017

Quant Time: Nov 26 02:13:39 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y110425S.M
 Quant Title : SW846 8260
 QLast Update : Wed Nov 05 04:41:50 2025
 Response via : Initial Calibration

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

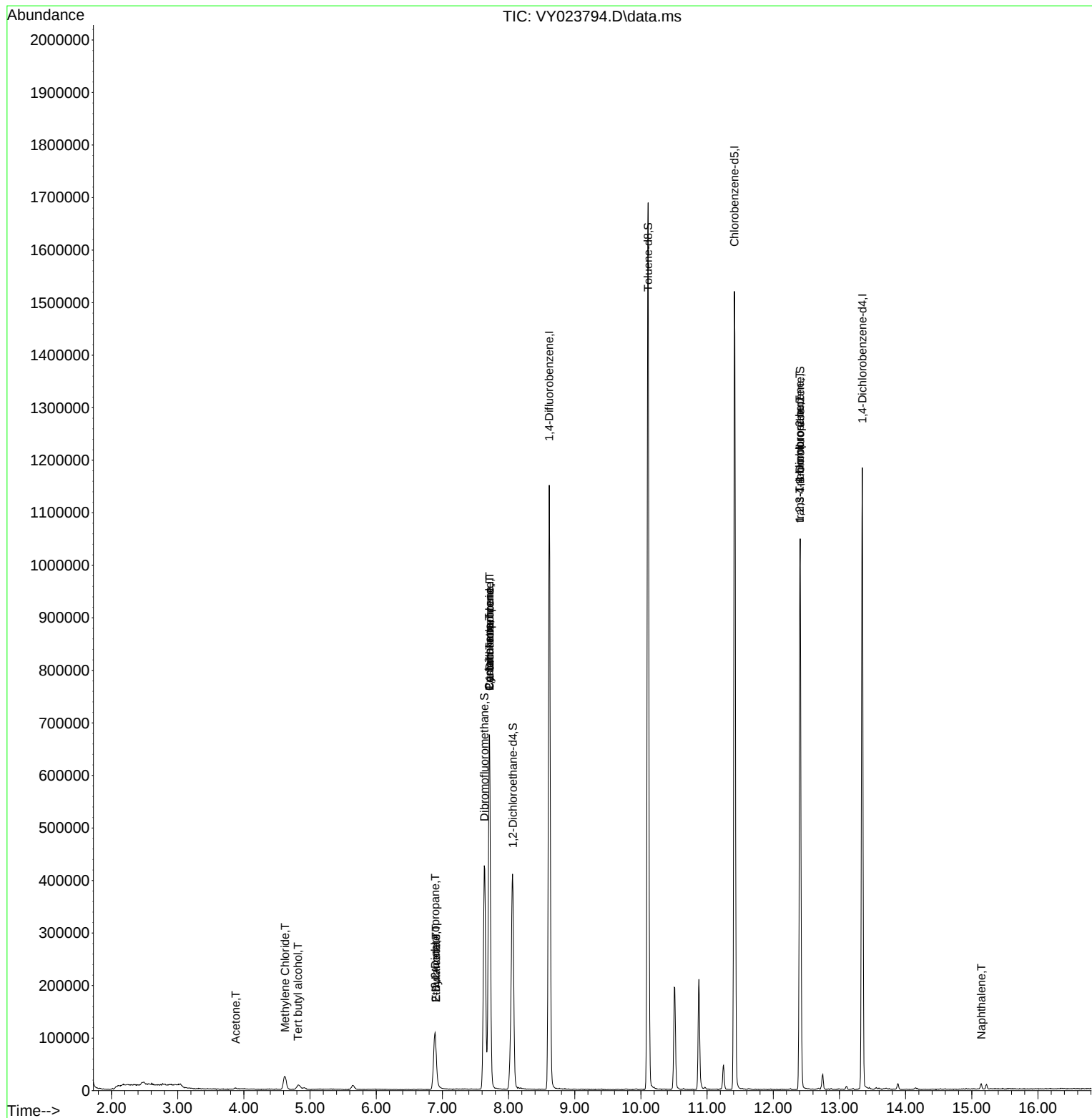
Internal Standards						
1) Pentafluorobenzene	7.713	168	536361	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	976505	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	844215	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	312386	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.067	65	274247	59.942	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	119.880%
35) Dibromofluoromethane	7.634	113	312633	51.230	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	102.460%
50) Toluene-d8	10.109	98	1132687	49.827	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	99.660%
62) 4-Bromofluorobenzene	12.407	95	313387	42.629	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	85.260%
Target Compounds						
						Qvalue
11) Tert butyl alcohol	4.817	59	8893	30.144	ug/l #	75
16) Acetone	3.878	43	3499	3.077	ug/l	97
20) Methylene Chloride	4.622	84	20453	3.725	ug/l	89
25) 2-Butanone	6.902	43	5881	4.473	ug/l #	69
26) 2,2-Dichloropropane	6.890	77	8705	1.093	ug/l #	51
31) Cyclohexane	7.707	56	10314	1.368	ug/l #	1
36) 1,1-Dichloropropene	7.713	75	41763	5.121	ug/l #	47
37) Ethyl Acetate	6.902	43	5881	1.863	ug/l #	1
38) Carbon Tetrachloride	7.713	117	52807	5.496	ug/l #	17
76) 1,2,3-Trichloropropane	12.401	75	156721	61.990	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.401	75	156721	140.093	ug/l #	14
95) Naphthalene	15.145	128	8646	6.104	ug/l	97

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

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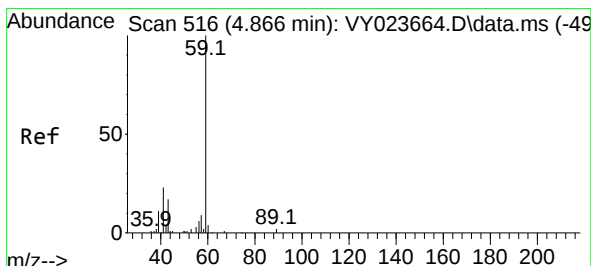
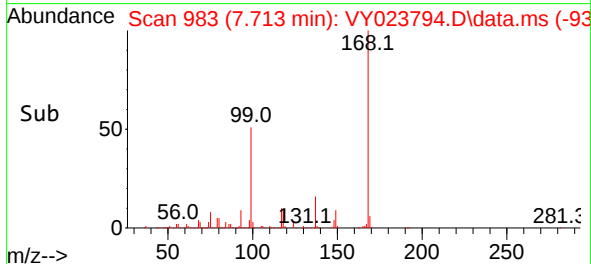
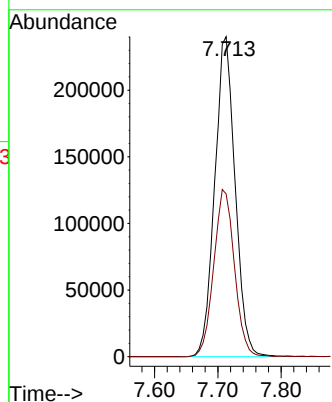
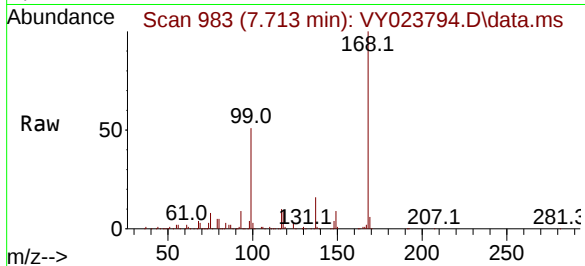




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

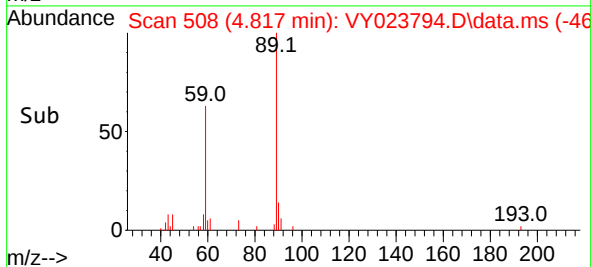
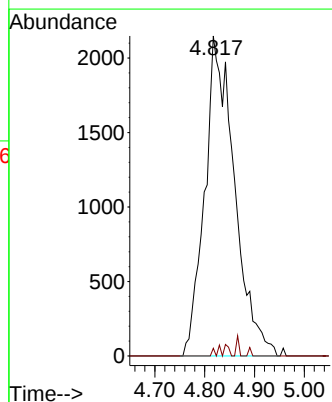
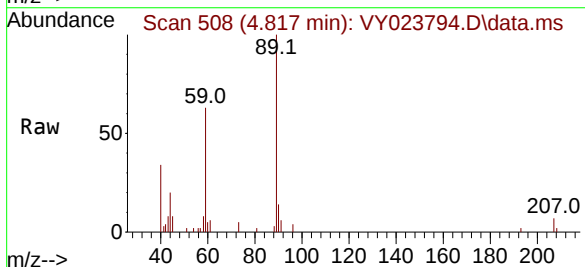
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MSVOA_Y
ClientSampleId :
72-12017

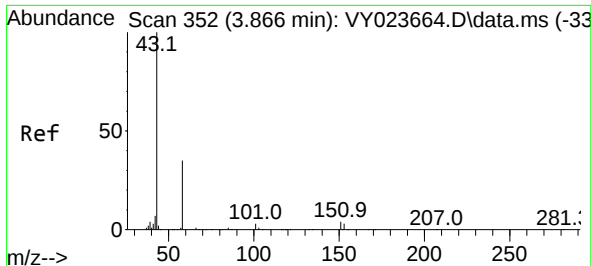
Tgt Ion:168 Resp: 536361
Ion Ratio Lower Upper
168 100
99 50.8 41.0 61.4



#11
Tert butyl alcohol
Concen: 30.144 ug/l
RT: 4.817 min Scan# 508
Delta R.T. -0.049 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion: 59 Resp: 8893
Ion Ratio Lower Upper
59 100
57 0.2 7.4 11.2#

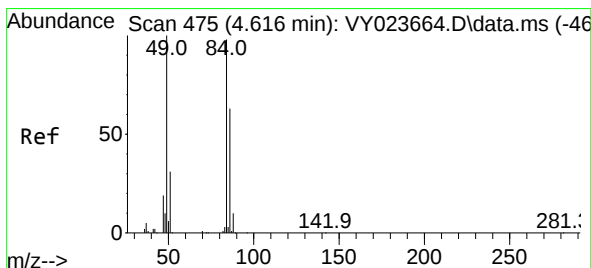
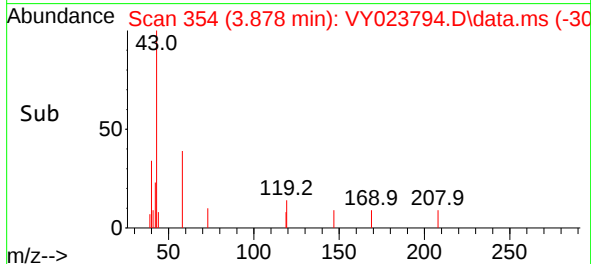
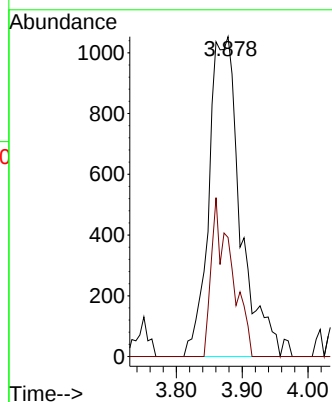
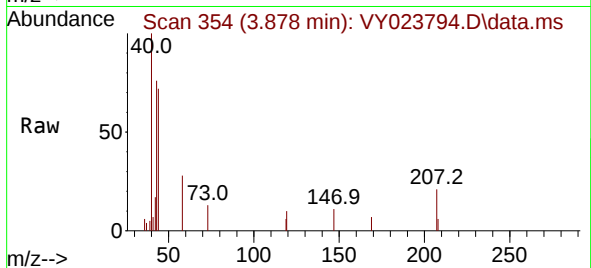




#16
Acetone
Concen: 3.077 ug/l
RT: 3.878 min Scan# 31
Delta R.T. 0.012 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

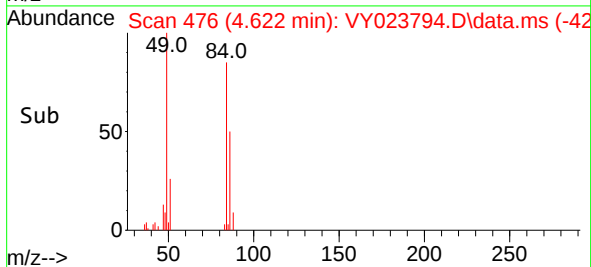
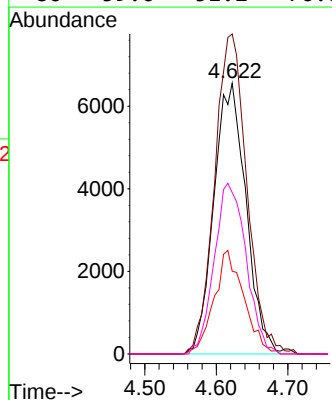
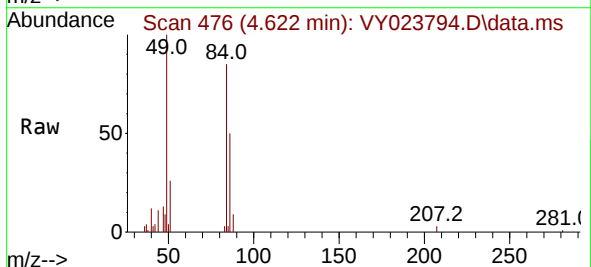
Instrument :
MSVOA_Y
ClientSampleId :
72-12017

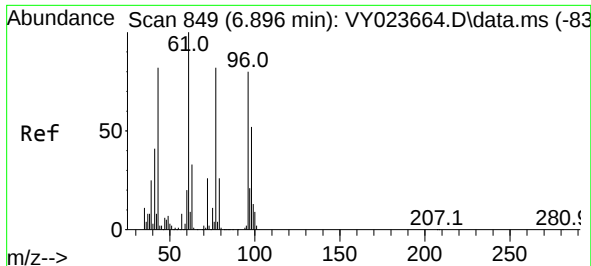
Tgt Ion: 43 Resp: 3499
Ion Ratio Lower Upper
43 100
58 37.2 28.2 42.4



#20
Methylene Chloride
Concen: 3.725 ug/l
RT: 4.622 min Scan# 476
Delta R.T. 0.006 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion: 84 Resp: 20453
Ion Ratio Lower Upper
84 100
49 118.2 81.5 122.3
51 30.6 25.5 38.3
86 59.6 51.2 76.8





#25

2-Butanone

Concen: 4.473 ug/l

RT: 6.902 min Scan# 81

Delta R.T. 0.006 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

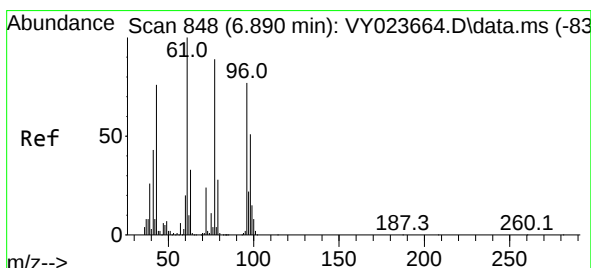
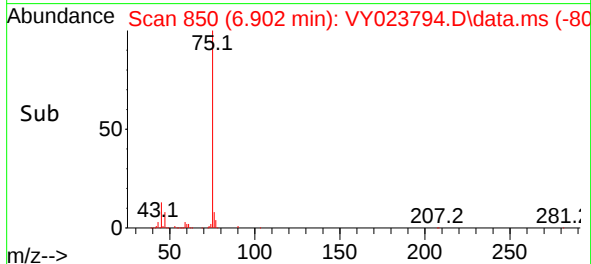
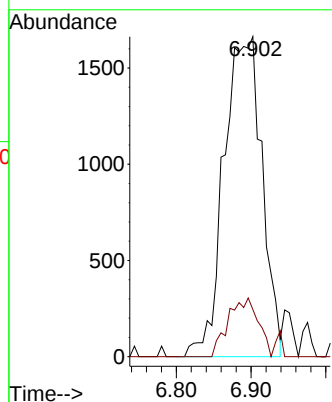
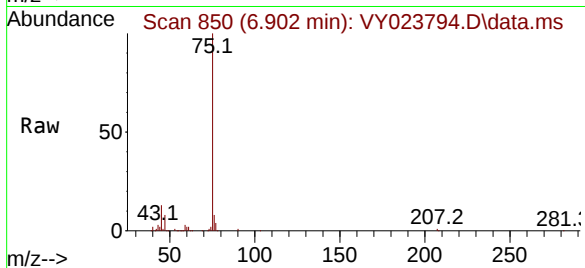
72-12017

Tgt Ion: 43 Resp: 5881

Ion Ratio Lower Upper

43 100

72 14.7 25.7 38.5#



#26

2,2-Dichloropropane

Concen: 1.093 ug/l

RT: 6.890 min Scan# 848

Delta R.T. -0.000 min

Lab File: VY023794.D

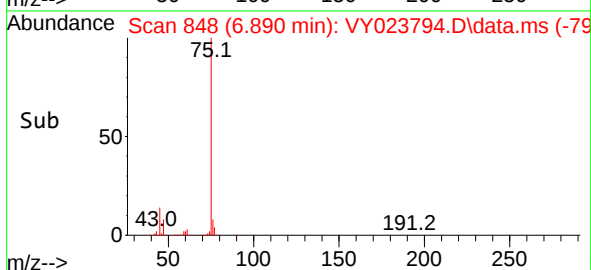
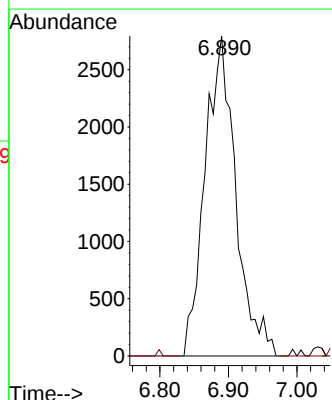
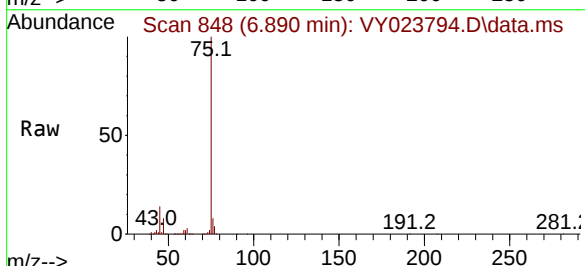
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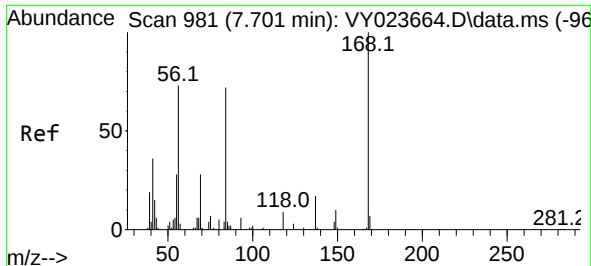
Tgt Ion: 77 Resp: 8705

Ion Ratio Lower Upper

77 100

97 0.0 12.0 36.1#

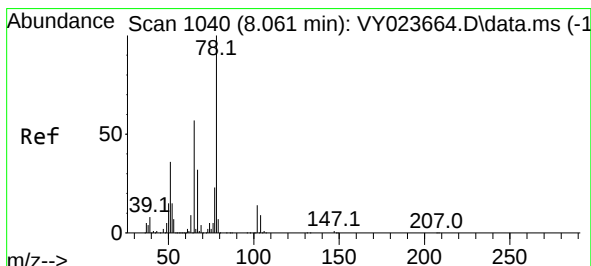
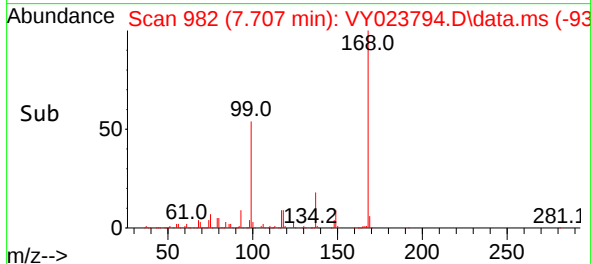
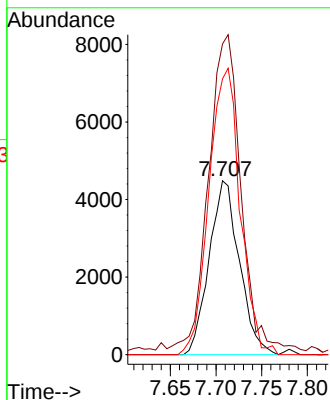
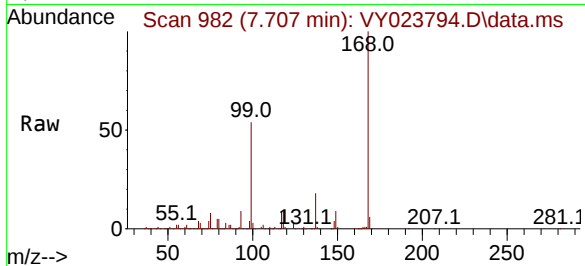




#31
Cyclohexane
Concen: 1.368 ug/l
RT: 7.707 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

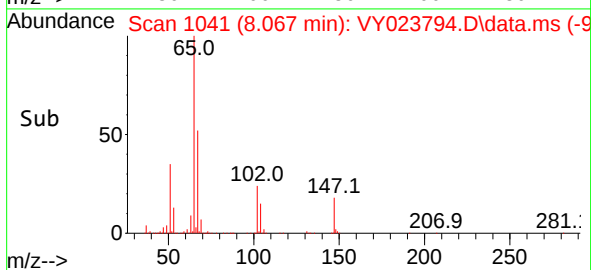
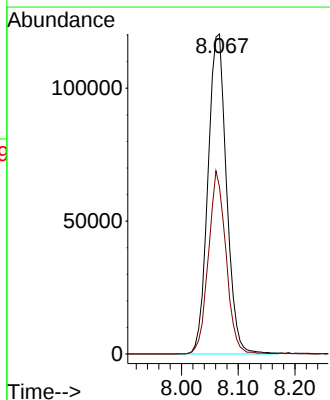
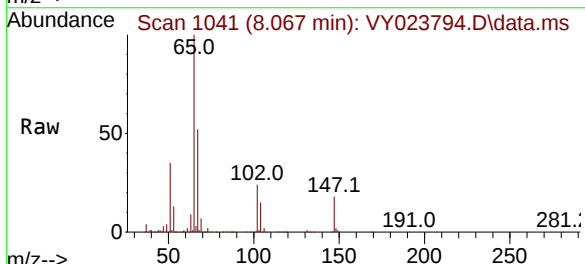
Instrument :
MSVOA_Y
ClientSampleId :
72-12017

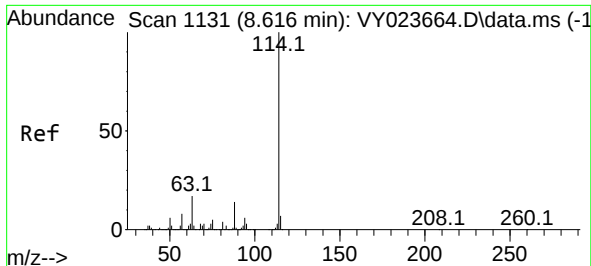
Tgt Ion: 56 Resp: 10314
Ion Ratio Lower Upper
56 100
69 171.9 30.5 45.7#
84 158.7 79.0 118.4#



#33
1,2-Dichloroethane-d4
Concen: 59.942 ug/l
RT: 8.067 min Scan# 1041
Delta R.T. 0.006 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion: 65 Resp: 274247
Ion Ratio Lower Upper
65 100
67 54.2 0.0 107.4

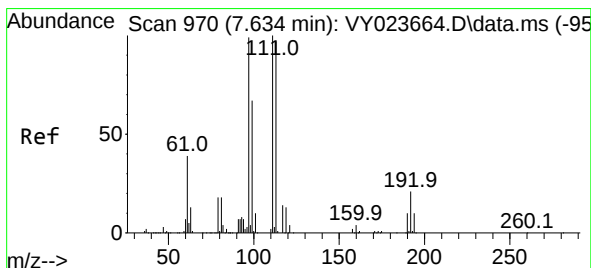
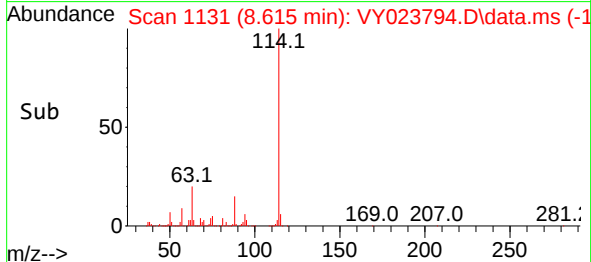
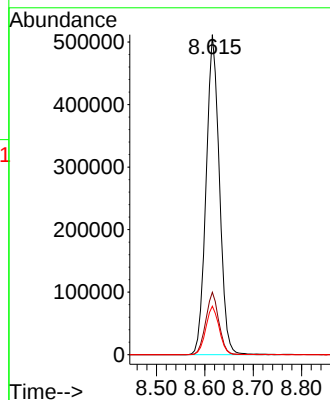
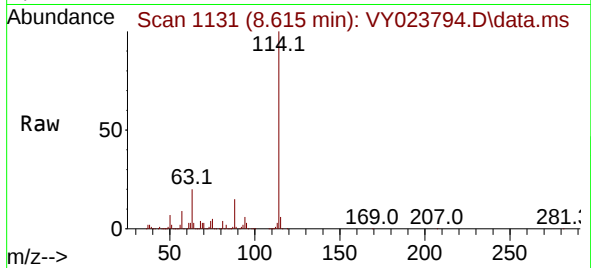




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

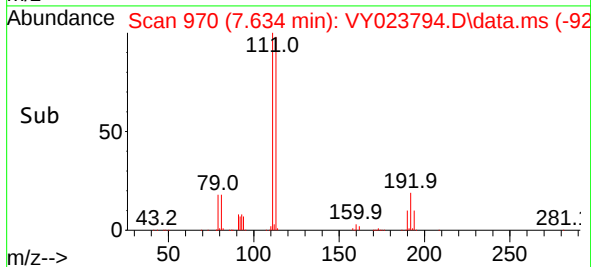
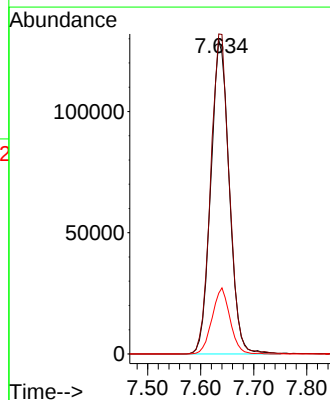
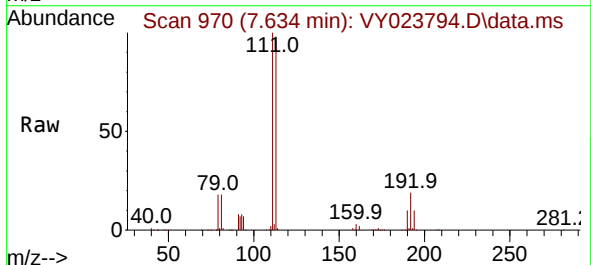
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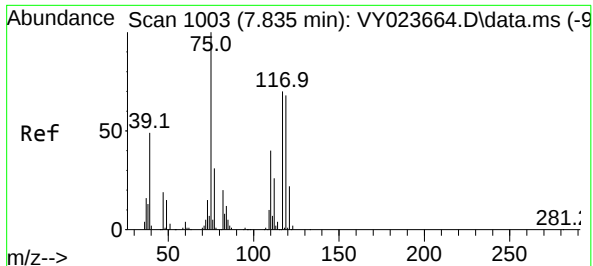
Tgt Ion:114 Resp: 976505
Ion Ratio Lower Upper
114 100
63 19.5 0.0 33.8
88 15.1 0.0 29.0



#35
Dibromofluoromethane
Concen: 51.230 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion:113 Resp: 312633
Ion Ratio Lower Upper
113 100
111 102.7 82.2 123.4
192 20.5 17.3 25.9





#36

1,1-Dichloropropene

Concen: 5.121 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

72-12017

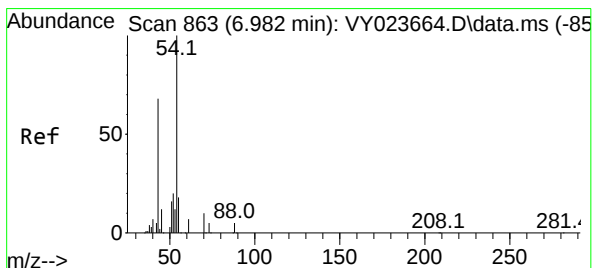
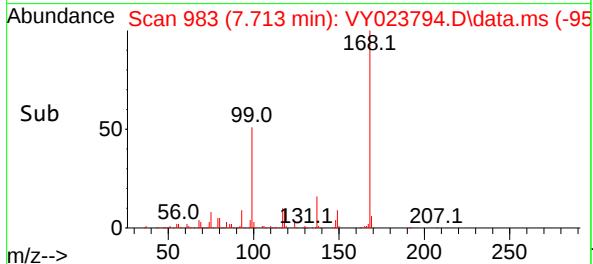
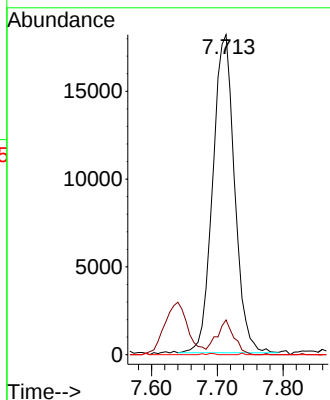
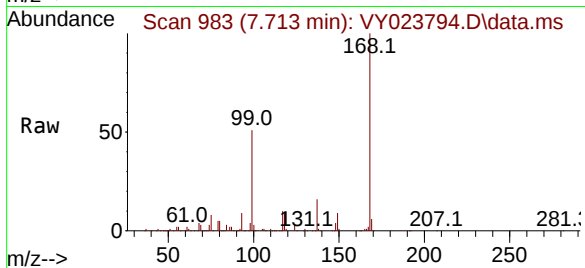
Tgt Ion: 75 Resp: 41763

Ion Ratio Lower Upper

75 100

110 8.7 19.7 59.0#

77 0.0 25.2 37.8#



#37

Ethyl Acetate

Concen: 1.863 ug/l

RT: 6.902 min Scan# 850

Delta R.T. -0.079 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

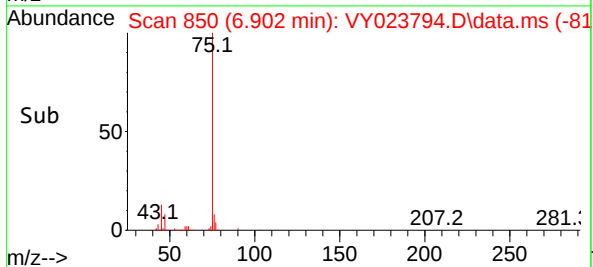
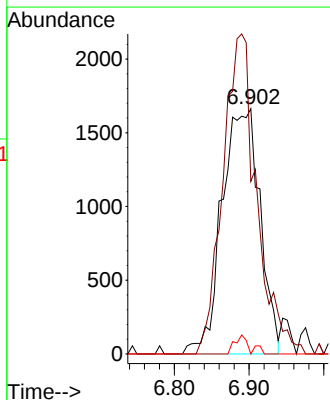
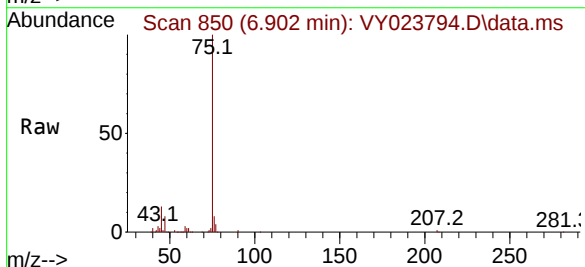
Tgt Ion: 43 Resp: 5881

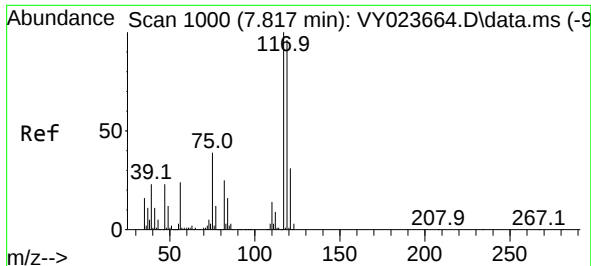
Ion Ratio Lower Upper

43 100

61 115.5 12.4 18.6#

70 2.4 9.8 14.8#

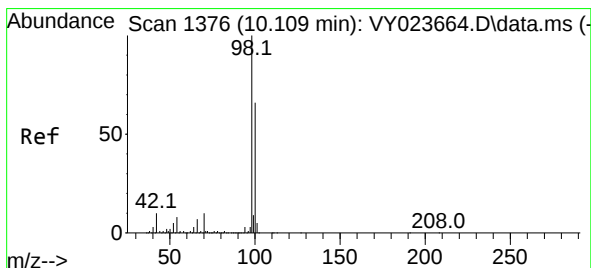
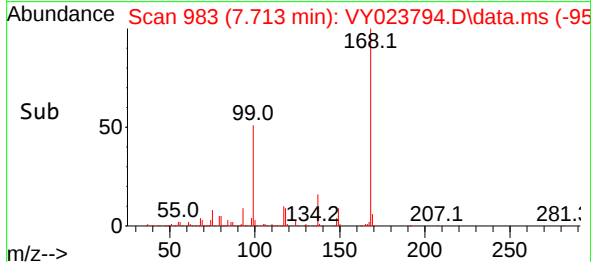
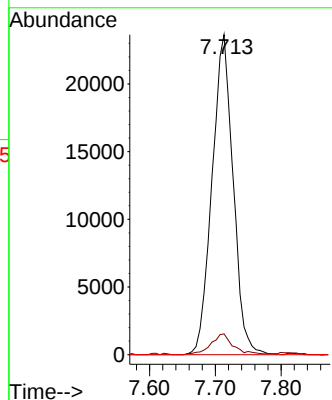
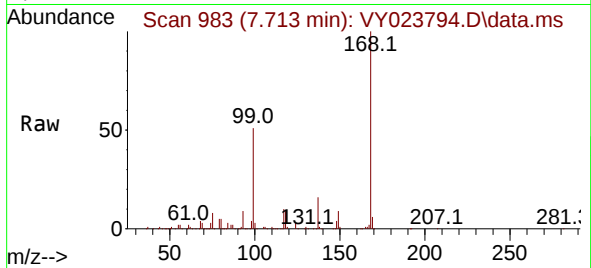




#38
Carbon Tetrachloride
Concen: 5.496 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

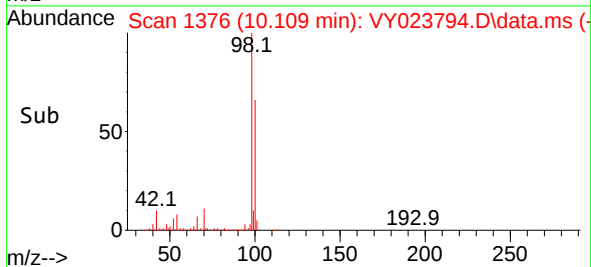
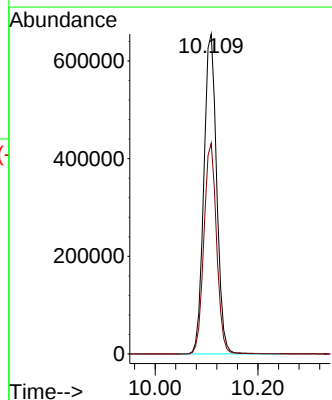
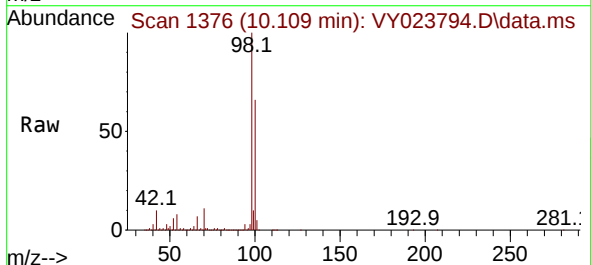
Instrument :
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72-12017

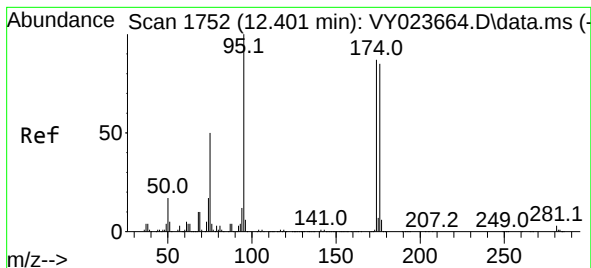
Tgt Ion:117 Resp: 52807
Ion Ratio Lower Upper
117 100
119 6.5 76.3 114.5#
121 0.0 24.8 37.2#



#50
Toluene-d8
Concen: 49.827 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. -0.000 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion: 98 Resp: 1132687
Ion Ratio Lower Upper
98 100
100 65.1 52.7 79.1





#62

4-Bromofluorobenzene

Concen: 42.629 ug/l

RT: 12.407 min Scan# 11

Delta R.T. 0.006 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

72-12017

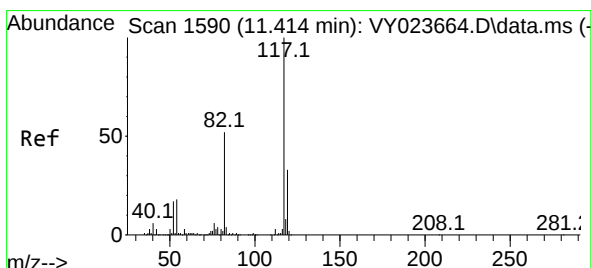
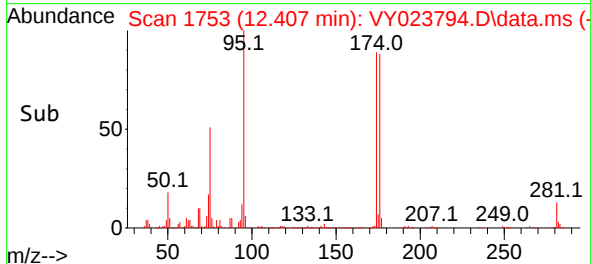
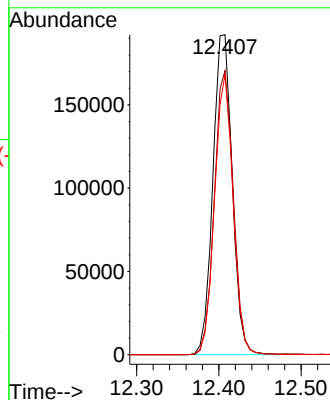
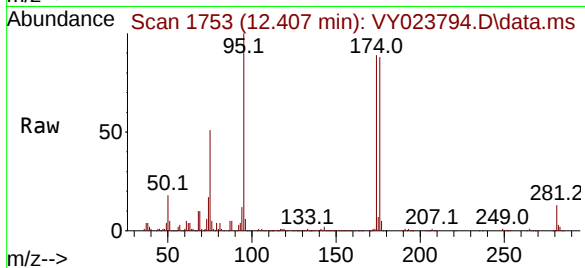
Tgt Ion: 95 Resp: 313387

Ion Ratio Lower Upper

95 100

174 87.6 0.0 184.8

176 83.9 0.0 181.6



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 1590

Delta R.T. -0.000 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

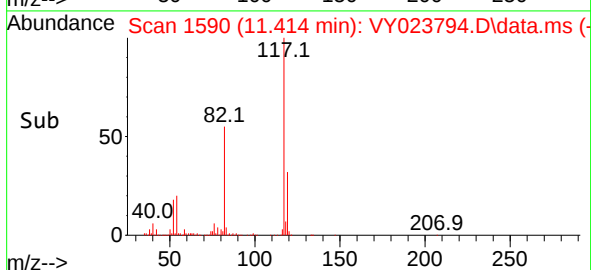
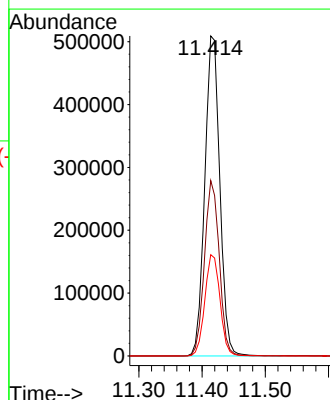
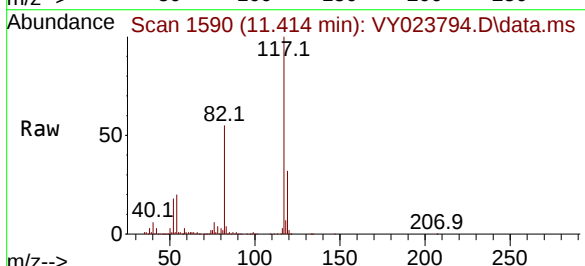
Tgt Ion: 117 Resp: 844215

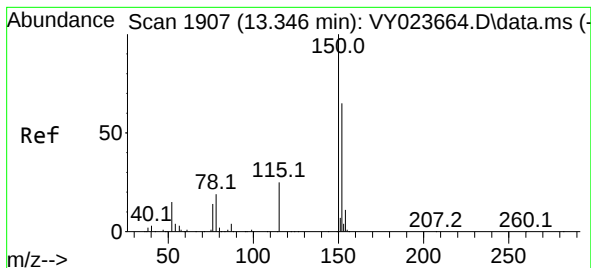
Ion Ratio Lower Upper

117 100

82 54.8 41.2 61.8

119 31.6 26.2 39.2





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. -0.000 min

Lab File: VY023794.D

Acq: 24 Nov 2025 16:48

Instrument :

MSVOA_Y

ClientSampleId :

72-12017

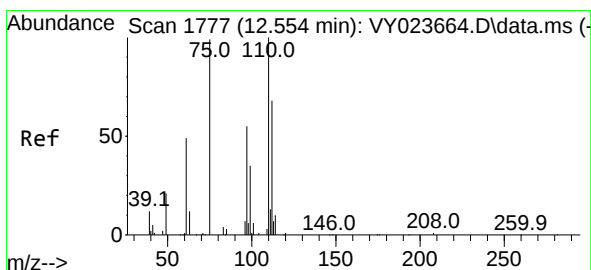
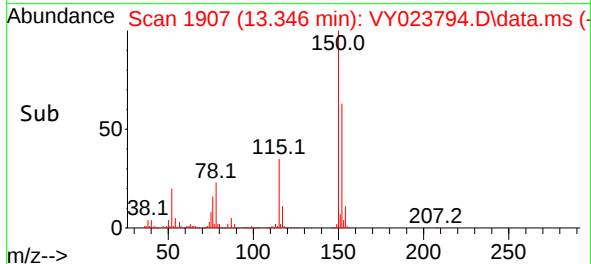
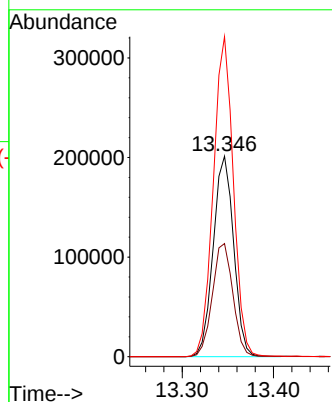
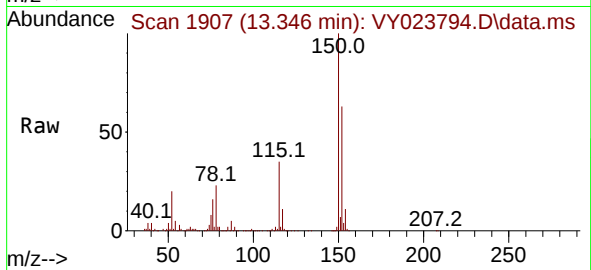
Tgt Ion:152 Resp: 312386

Ion Ratio Lower Upper

152 100

115 56.8 27.5 82.5

150 156.4 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 61.990 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. -0.153 min

Lab File: VY023794.D

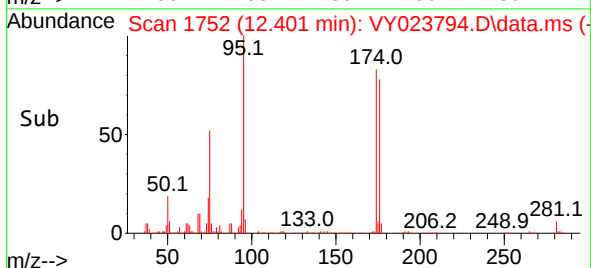
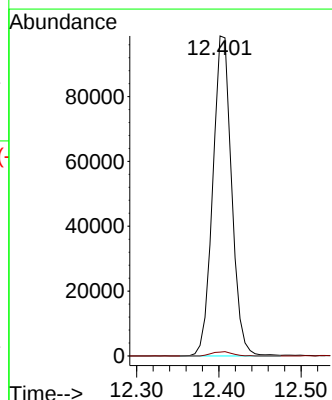
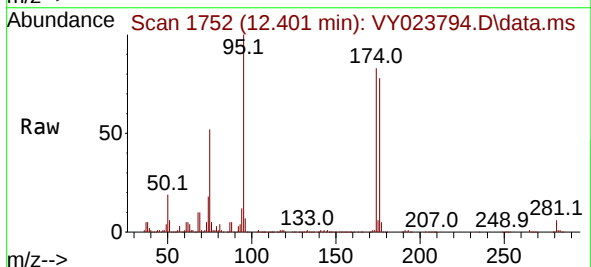
Acq: 24 Nov 2025 16:48

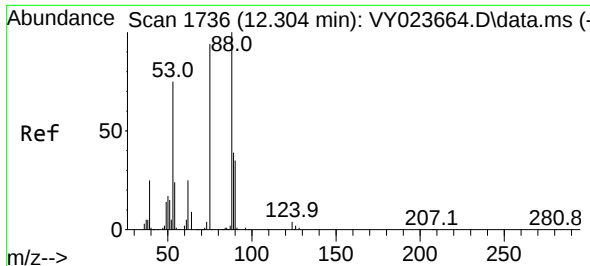
Tgt Ion: 75 Resp: 156721

Ion Ratio Lower Upper

75 100

77 1.5 0.0 0.0#

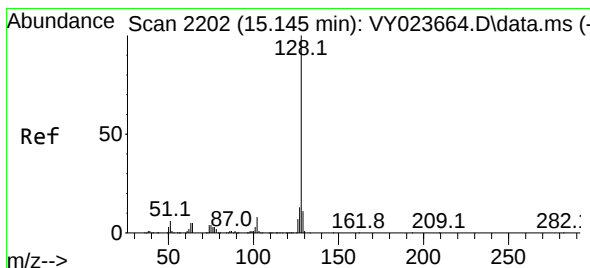
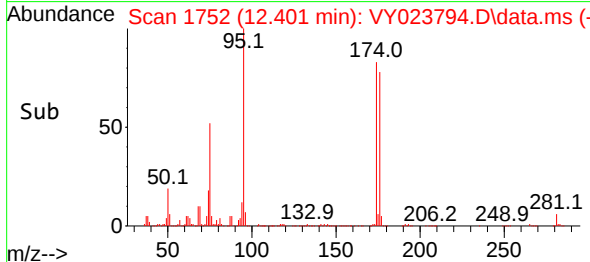
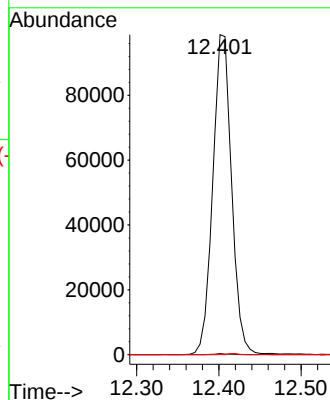
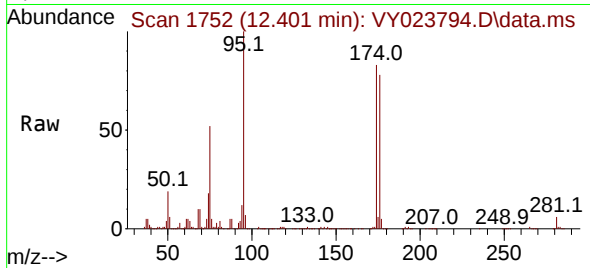




#81
trans-1,4-Dichloro-2-butene
Concen: 140.093 ug/l
RT: 12.401 min Scan# 11
Delta R.T. 0.097 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Instrument :
MSVOA_Y
ClientSampleId :
72-12017

Tgt Ion: 75 Resp: 156721
Ion Ratio Lower Upper
75 100
53 0.3 69.6 104.4#
89 0.2 38.2 57.4#



#95
Naphthalene
Concen: 6.104 ug/l
RT: 15.145 min Scan# 2202
Delta R.T. -0.000 min
Lab File: VY023794.D
Acq: 24 Nov 2025 16:48

Tgt Ion: 128 Resp: 8646
Ion Ratio Lower Upper
128 100
127 14.4 10.5 15.7
129 10.2 8.8 13.2

