

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY092525\
 Data File : VY023373.D
 Acq On : 25 Sep 2025 14:56
 Operator : SY/MD
 Sample : Q3174-02
 Misc : 7.36g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :

Quant Time: Sep 26 04:24:48 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y090825S.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 10 01:44:33 2025
 Response via : Initial Calibration

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

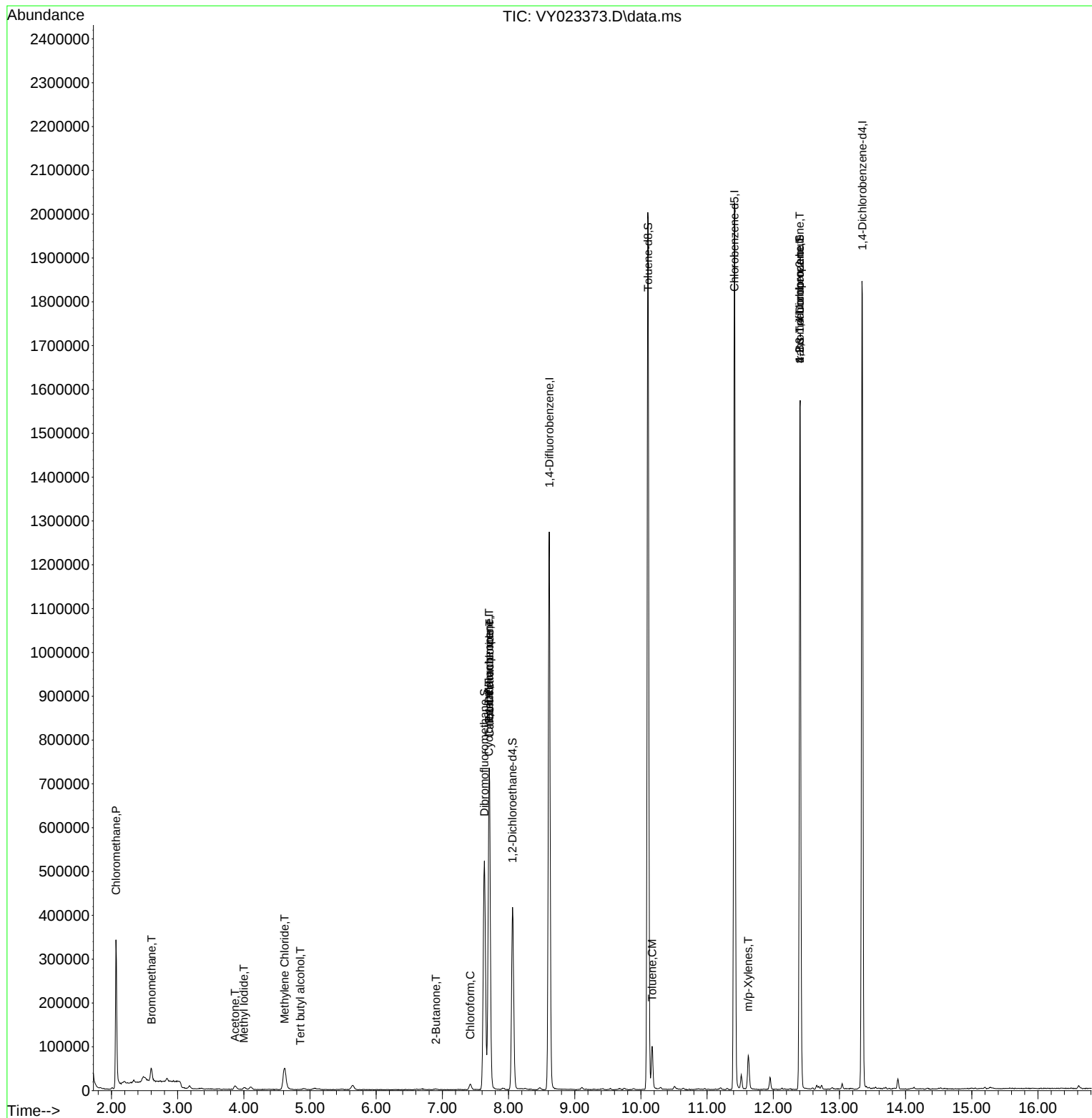
Internal Standards						
1) Pentafluorobenzene	7.707	168	616227	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	1138197	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1103007	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	505673	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	322696	59.594	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 119.180%			
35) Dibromofluoromethane	7.634	113	375231	53.933	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 107.860%			
50) Toluene-d8	10.109	98	1360036	51.768	ug/l	0.00
Spiked Amount 50.000	Range 58 - 134		Recovery = 103.540%			
62) 4-Bromofluorobenzene	12.402	95	462048	55.887	ug/l	0.00
Spiked Amount 50.000	Range 30 - 143		Recovery = 111.780%			
Target Compounds					Qvalue	
3) Chloromethane	2.068	50	276761	39.122	ug/l	97
5) Bromomethane	2.605	94	21921	3.012	ug/l	98
10) Methyl Iodide	4.001	142	7289	1.033	ug/l #	93
11) Tert butyl alcohol	4.854	59	559	1.787	ug/l	98
16) Acetone	3.866	43	14066	11.404	ug/l	94
20) Methylene Chloride	4.616	84	40126	6.081	ug/l	92
25) 2-Butanone	6.903	43	1942	1.279	ug/l	93
30) Chloroform	7.421	83	12538	1.090	ug/l	83
31) Cyclohexane	7.701	56	11546	1.218	ug/l #	1
36) 1,1-Dichloropropene	7.707	75	40802	4.118	ug/l #	50
38) Carbon Tetrachloride	7.713	117	56044	4.915	ug/l #	16
52) Toluene	10.170	92	41835	2.140	ug/l	99
68) m/p-Xylenes	11.621	106	23834	1.508	ug/l	100
76) 1,2,3-Trichloropropane	12.402	75	228758	44.672	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.402	75	228758	121.824	ug/l #	14

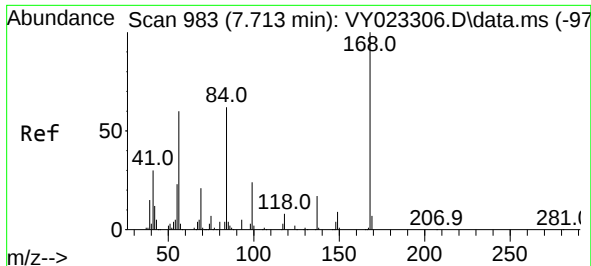
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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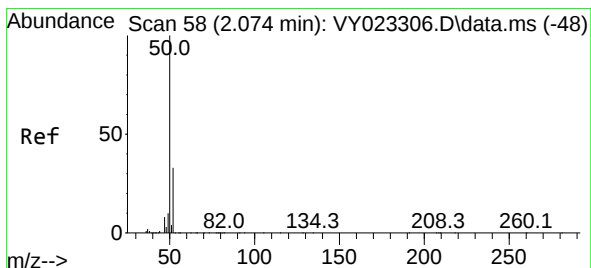
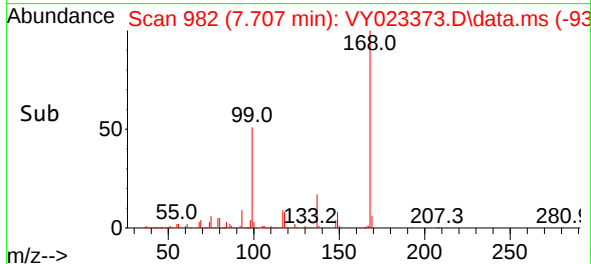
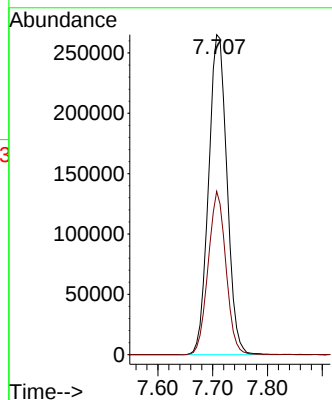
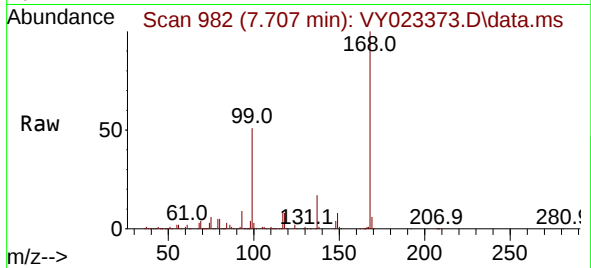




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

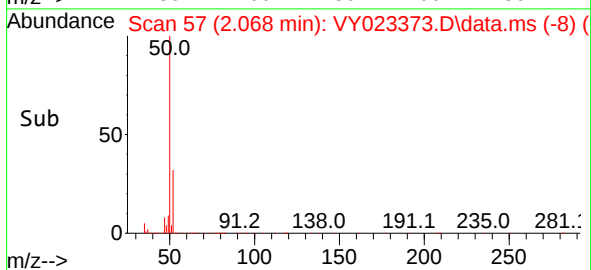
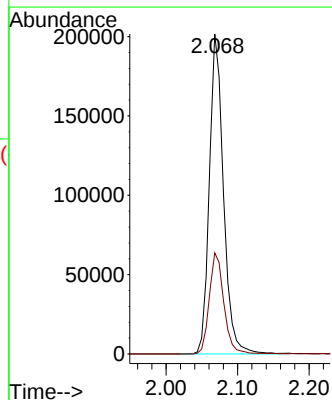
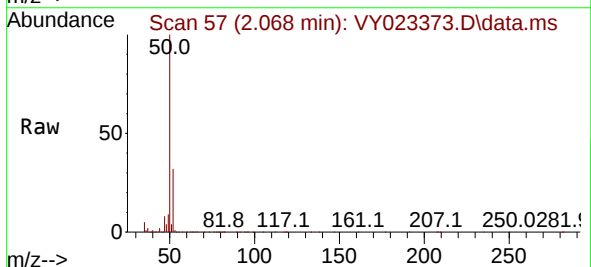
Instrument :
MSVOA_Y
ClientSampleId :

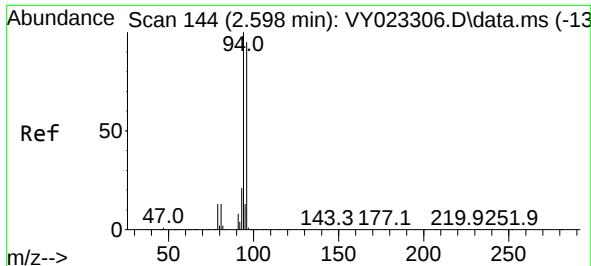
Tgt Ion:168 Resp: 616227
Ion Ratio Lower Upper
168 100
99 51.1 42.8 64.2



#3
Chloromethane
Concen: 39.122 ug/l
RT: 2.068 min Scan# 57
Delta R.T. 0.000 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion: 50 Resp: 276761
Ion Ratio Lower Upper
50 100
52 31.6 26.7 40.1

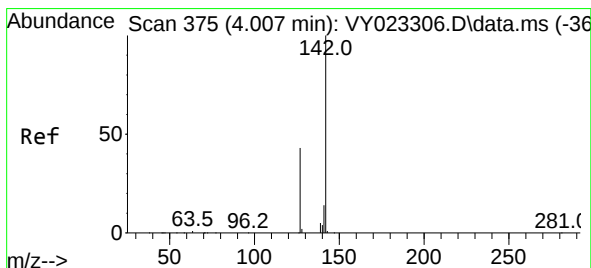
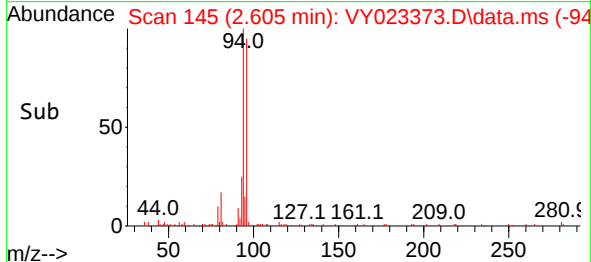
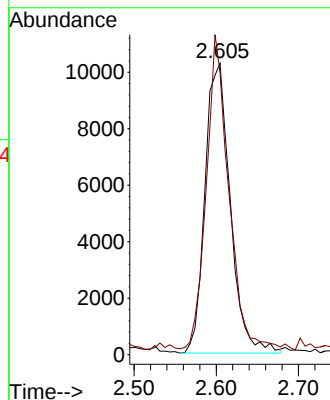
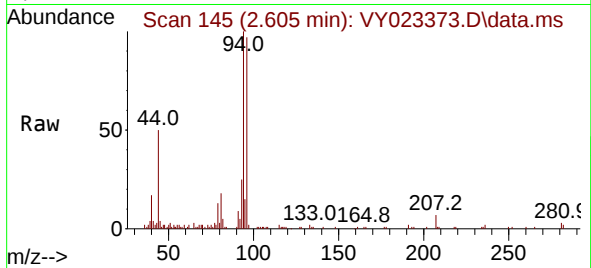




#5
Bromomethane
Concen: 3.012 ug/l
RT: 2.605 min Scan# 144
Delta R.T. 0.012 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

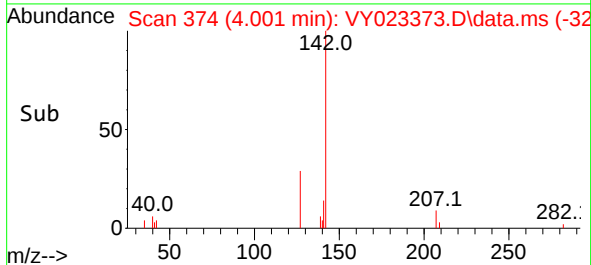
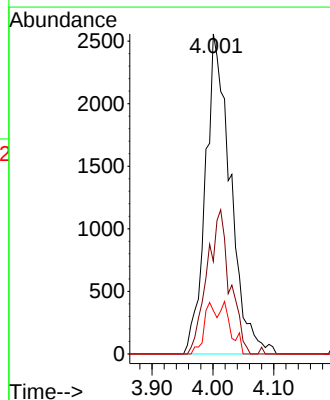
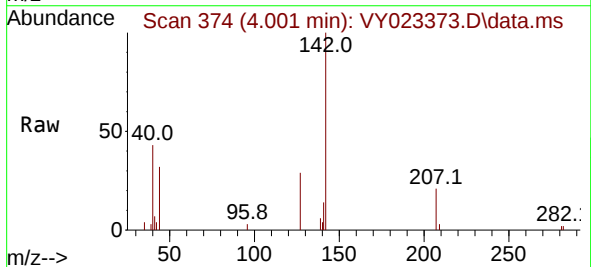
Instrument :
MSVOA_Y
ClientSampleId :

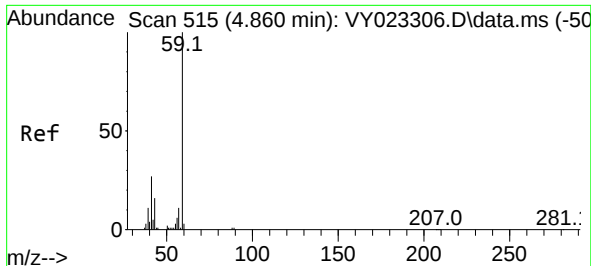
Tgt Ion: 94 Resp: 21921
Ion Ratio Lower Upper
94 100
96 95.3 74.6 112.0



#10
Methyl Iodide
Concen: 1.033 ug/l
RT: 4.001 min Scan# 374
Delta R.T. 0.006 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion: 142 Resp: 7289
Ion Ratio Lower Upper
142 100
127 41.0 34.9 52.3
141 8.0 11.3 16.9





#11

Tert butyl alcohol

Concen: 1.787 ug/l

RT: 4.854 min Scan# 51

Delta R.T. -0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

Instrument :

MSVOA_Y

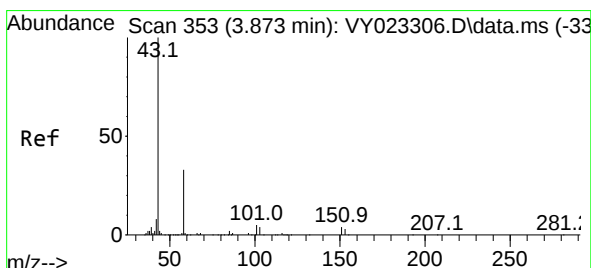
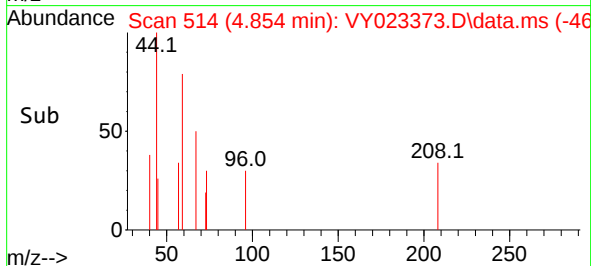
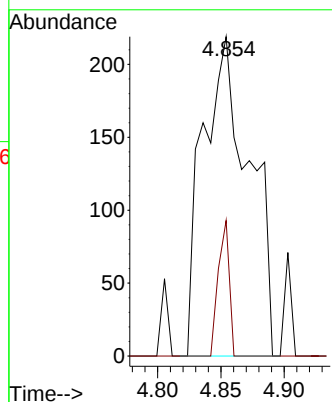
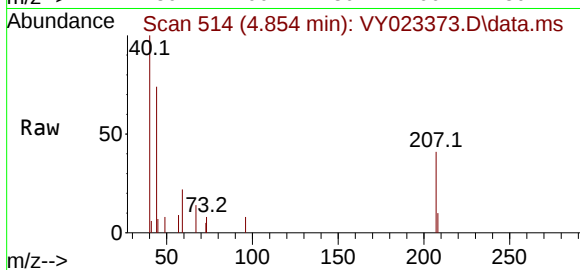
ClientSampleId :

Tgt Ion: 59 Resp: 559

Ion Ratio Lower Upper

59 100

57 10.0 8.6 13.0



#16

Acetone

Concen: 11.404 ug/l

RT: 3.866 min Scan# 352

Delta R.T. 0.006 min

Lab File: VY023373.D

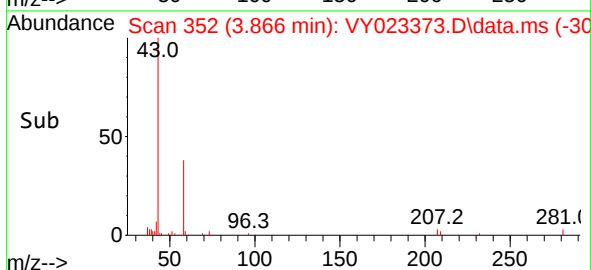
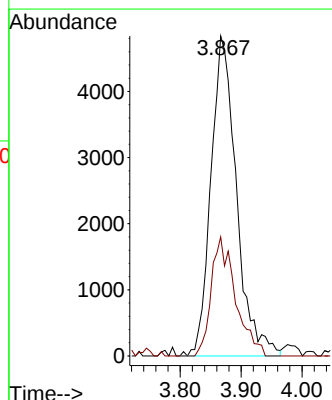
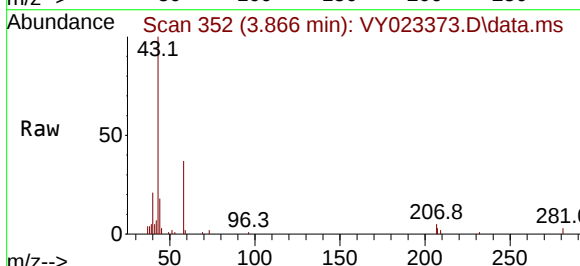
Acq: 25 Sep 2025 14:56

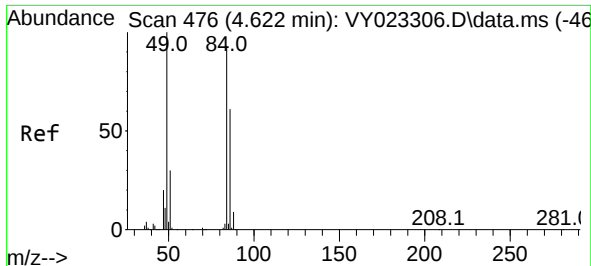
Tgt Ion: 43 Resp: 14066

Ion Ratio Lower Upper

43 100

58 37.2 27.1 40.7

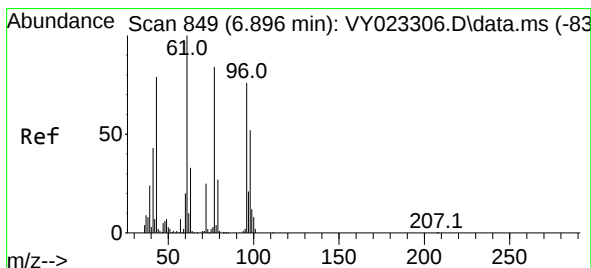
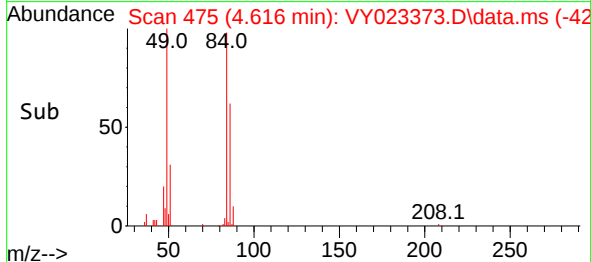
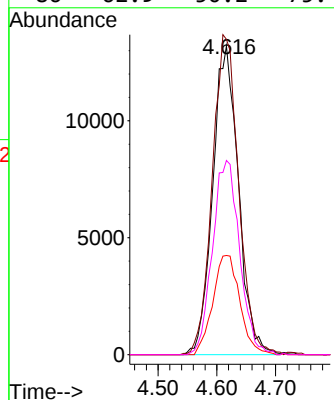
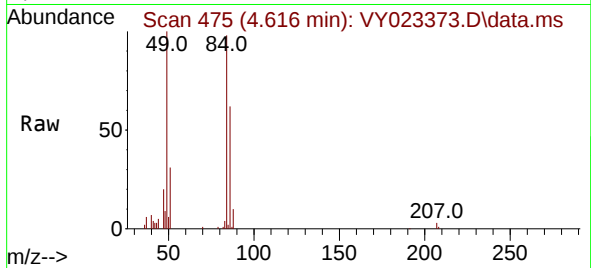




#20
Methylene Chloride
Concen: 6.081 ug/l
RT: 4.616 min Scan# 41
Delta R.T. 0.012 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

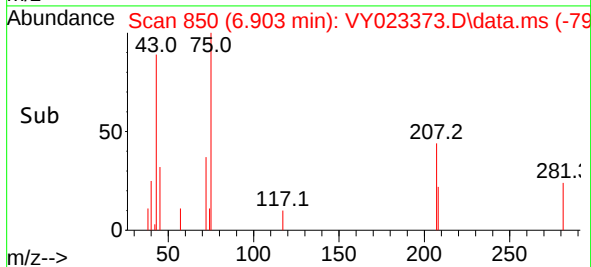
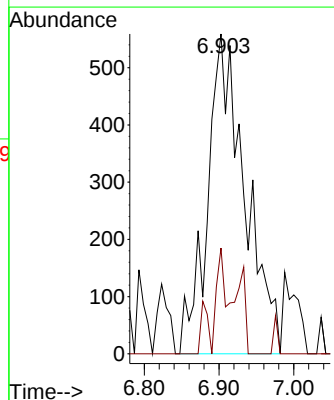
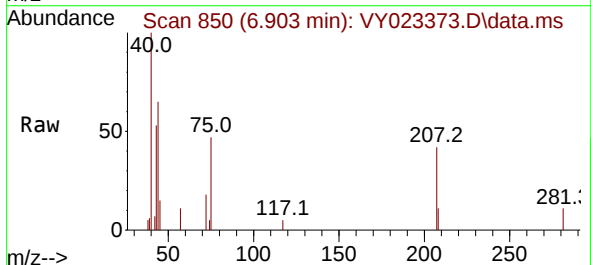
Instrument :
MSVOA_Y
ClientSampleId :

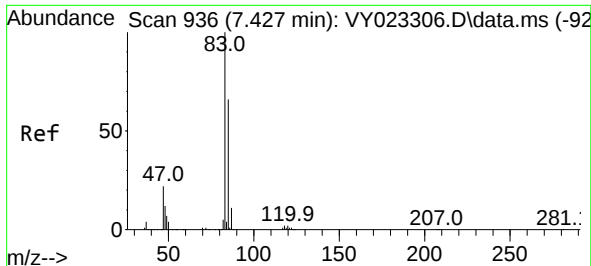
Tgt Ion:	84	Resp:	40126
Ion	Ratio	Lower	Upper
84	100		
49	102.1	93.0	139.6
51	32.1	29.0	43.4
86	62.9	50.2	75.4



#25
2-Butanone
Concen: 1.279 ug/l
RT: 6.903 min Scan# 850
Delta R.T. 0.018 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion:	43	Resp:	1942
Ion	Ratio	Lower	Upper
43	100		
72	33.1	23.5	35.3

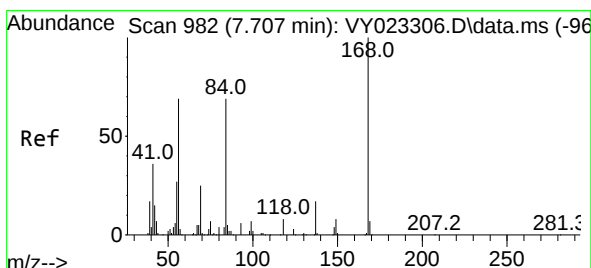
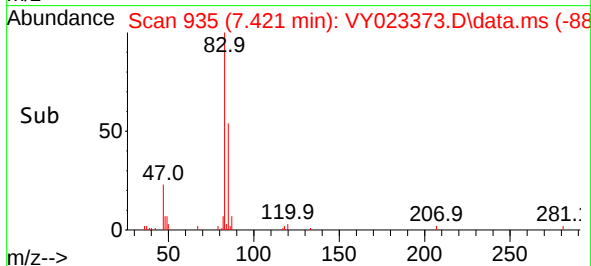
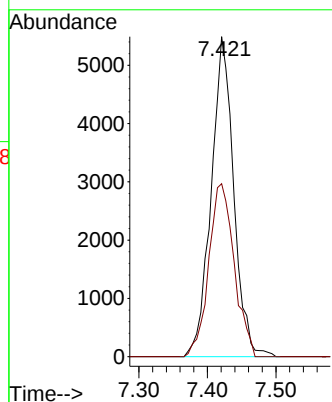
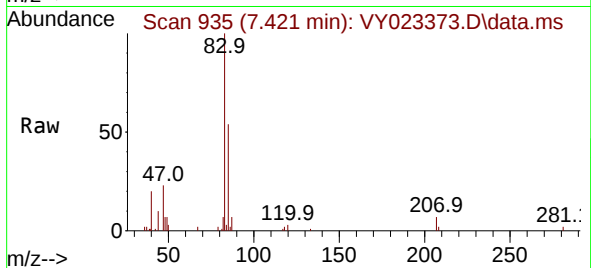




#30
Chloroform
Concen: 1.090 ug/l
RT: 7.421 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

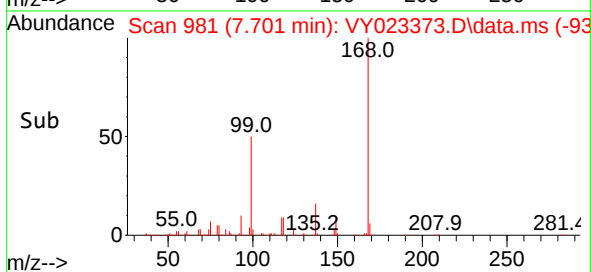
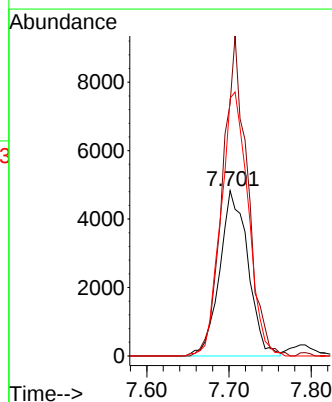
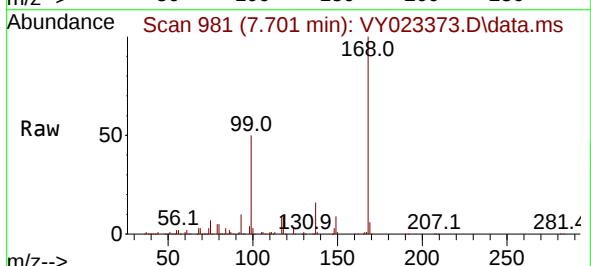
Instrument :
MSVOA_Y
ClientSampleId :

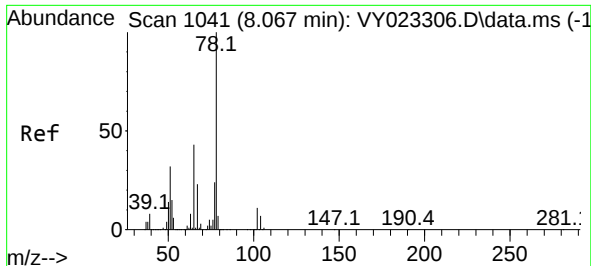
Tgt Ion: 83 Resp: 12538
Ion Ratio Lower Upper
83 100
85 54.0 53.8 80.8



#31
Cyclohexane
Concen: 1.218 ug/l
RT: 7.701 min Scan# 981
Delta R.T. 0.006 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion: 56 Resp: 11546
Ion Ratio Lower Upper
56 100
69 152.6 28.2 42.2#
84 155.8 76.6 114.8#





#33

1,2-Dichloroethane-d4

Concen: 59.594 ug/l

RT: 8.061 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

Instrument :

MSVOA_Y

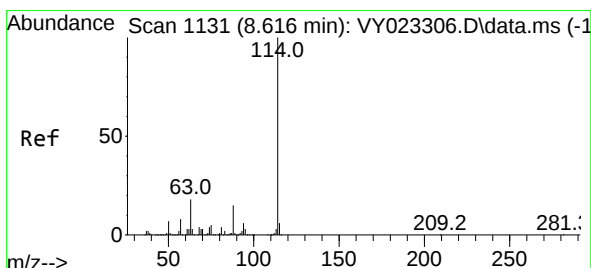
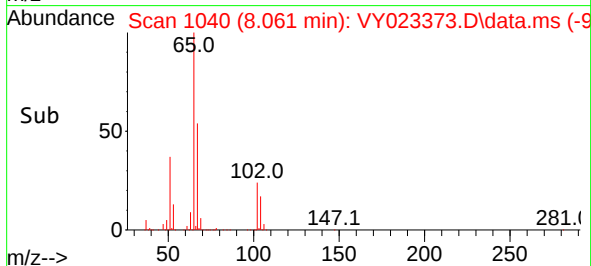
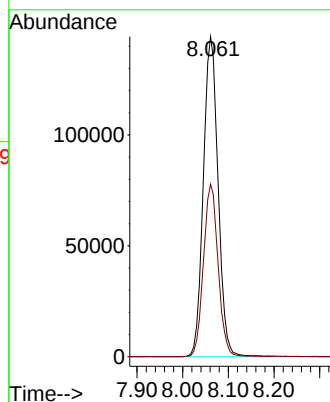
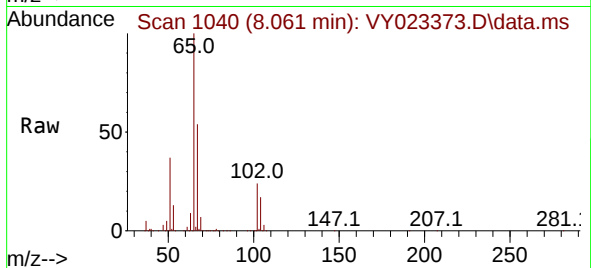
ClientSampleId :

Tgt Ion: 65 Resp: 322696

Ion Ratio Lower Upper

65 100

67 53.6 0.0 106.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

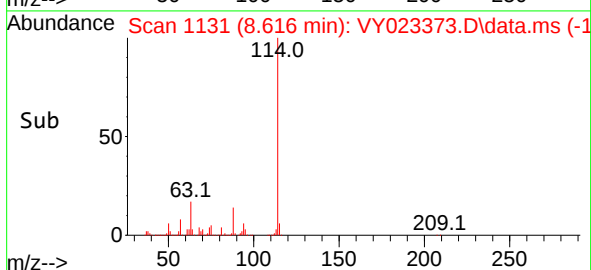
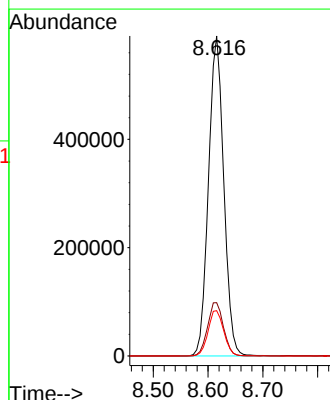
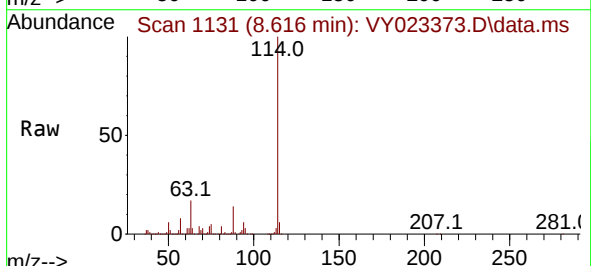
Tgt Ion: 114 Resp: 1138197

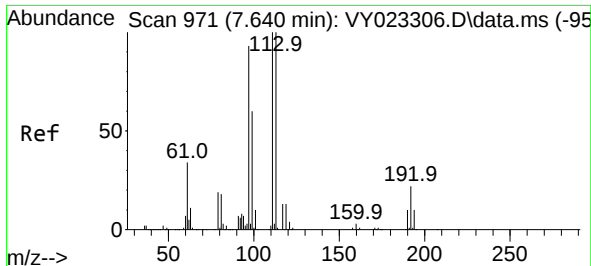
Ion Ratio Lower Upper

114 100

63 16.7 0.0 38.4

88 14.2 0.0 30.0





#35

Dibromofluoromethane

Concen: 53.933 ug/l

RT: 7.634 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

Instrument :

MSVOA_Y

ClientSampleId :

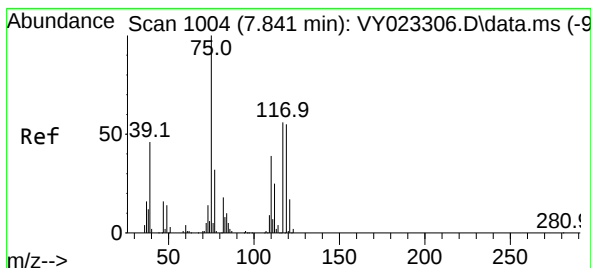
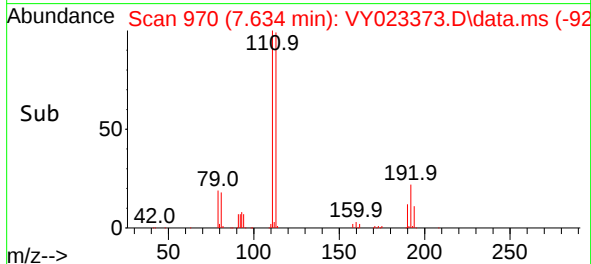
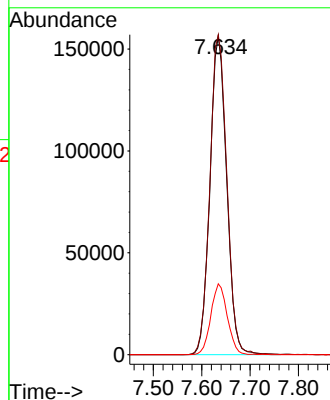
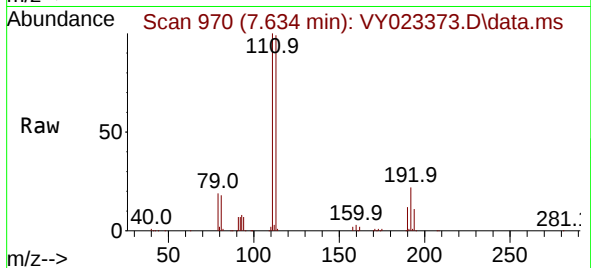
Tgt Ion:113 Resp: 375231

Ion Ratio Lower Upper

113 100

111 102.1 81.1 121.7

192 21.9 16.2 24.4



#36

1,1-Dichloropropene

Concen: 4.118 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.122 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

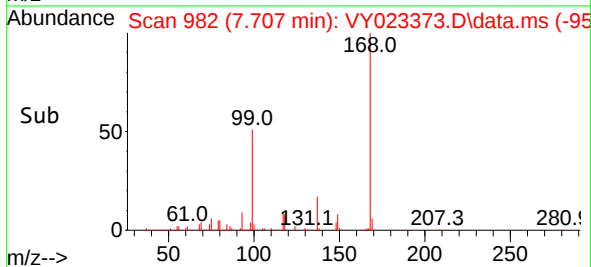
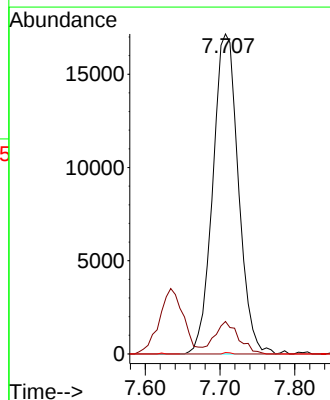
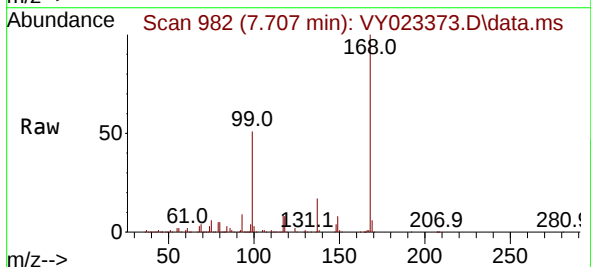
Tgt Ion: 75 Resp: 40802

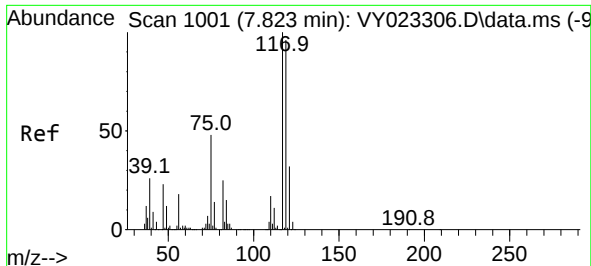
Ion Ratio Lower Upper

75 100

110 9.5 18.1 54.4#

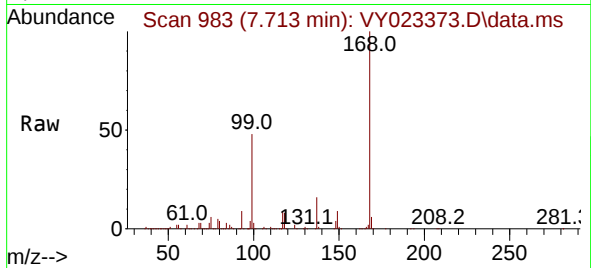
77 0.1 24.6 37.0#



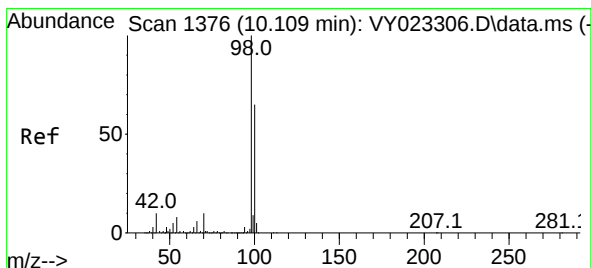
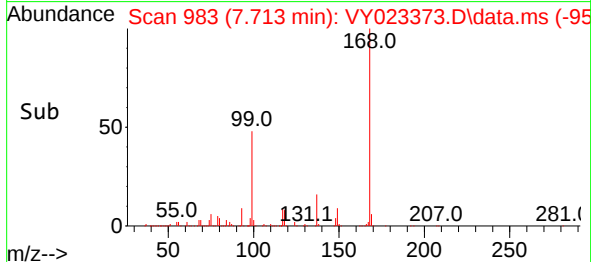
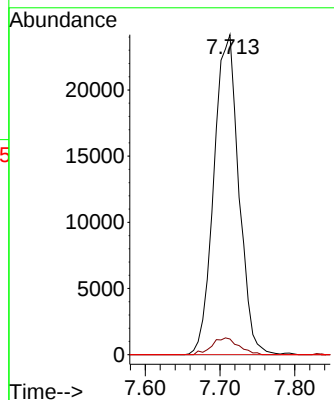


#38
Carbon Tetrachloride
Concen: 4.915 ug/l
RT: 7.713 min Scan# 91
Delta R.T. -0.104 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Instrument :
MSVOA_Y
ClientSampleId :

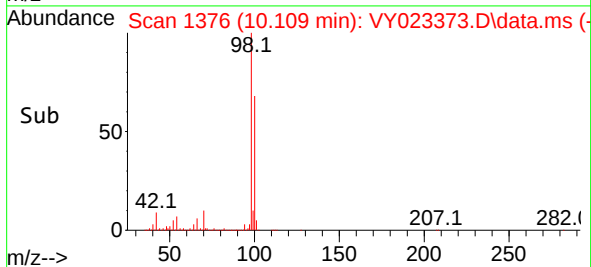
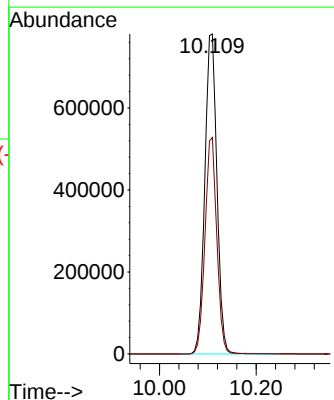
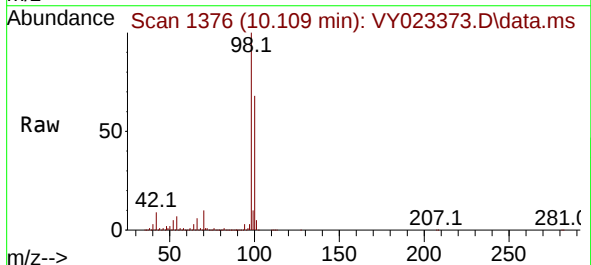


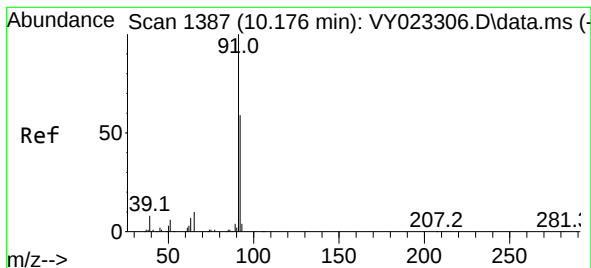
Tgt Ion:117 Resp: 56044
Ion Ratio Lower Upper
117 100
119 4.9 75.6 113.4#
121 0.0 25.8 38.8#



#50
Toluene-d8
Concen: 51.768 ug/l
RT: 10.109 min Scan# 1376
Delta R.T. 0.006 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion: 98 Resp: 1360036
Ion Ratio Lower Upper
98 100
100 66.0 52.3 78.5





#52

Toluene

Concen: 2.140 ug/l

RT: 10.170 min Scan# 1

Delta R.T. 0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

Instrument :

MSVOA_Y

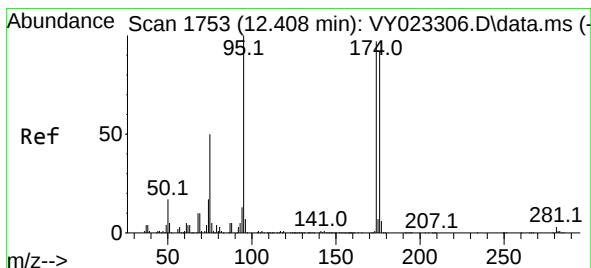
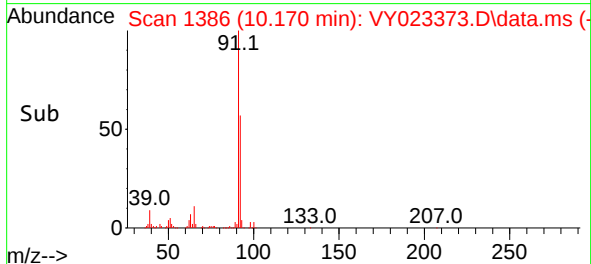
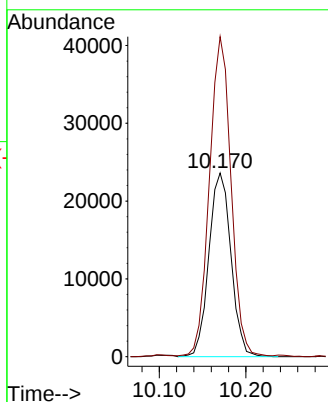
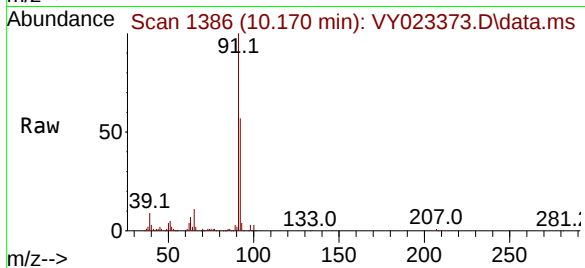
ClientSampleId :

Tgt Ion: 92 Resp: 41835

Ion Ratio Lower Upper

92 100

91 169.0 136.4 204.6



#62

4-Bromofluorobenzene

Concen: 55.887 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

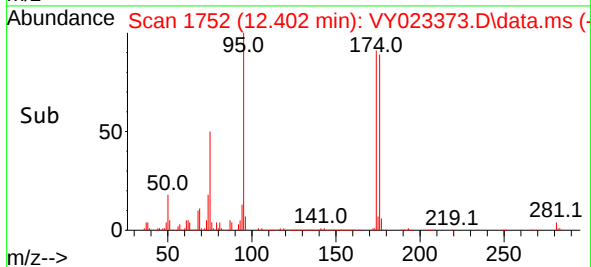
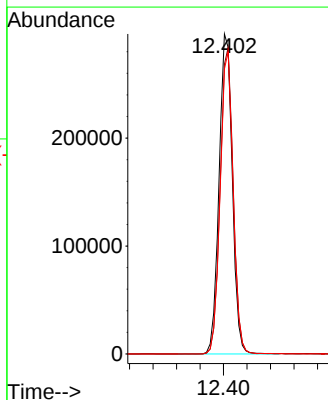
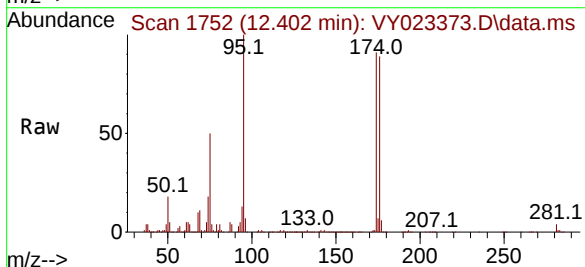
Tgt Ion: 95 Resp: 462048

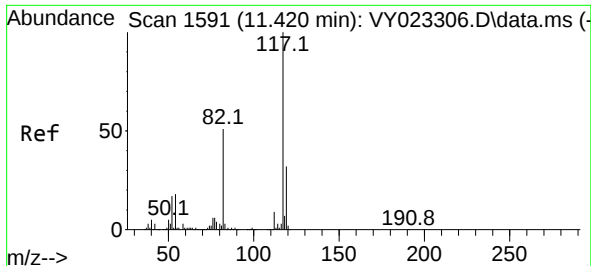
Ion Ratio Lower Upper

95 100

174 94.3 0.0 171.6

176 92.5 0.0 167.6

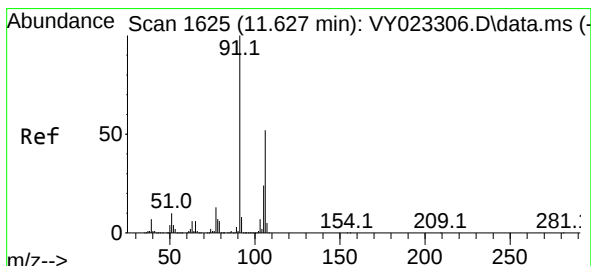
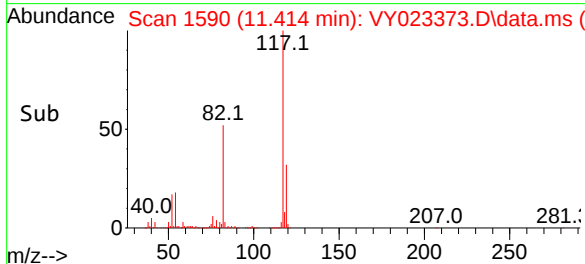
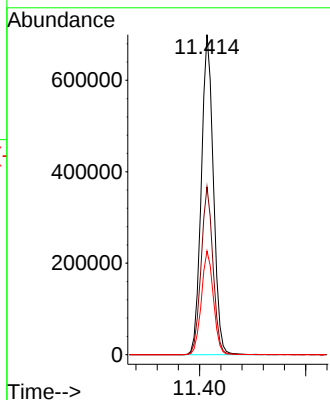
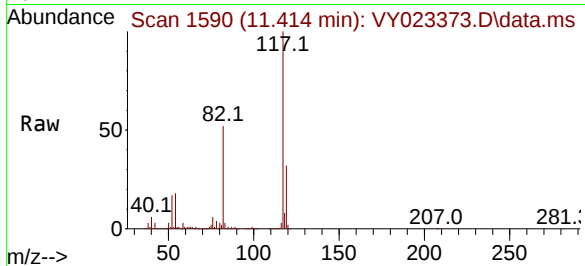




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.414 min Scan# 11
Delta R.T. 0.006 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

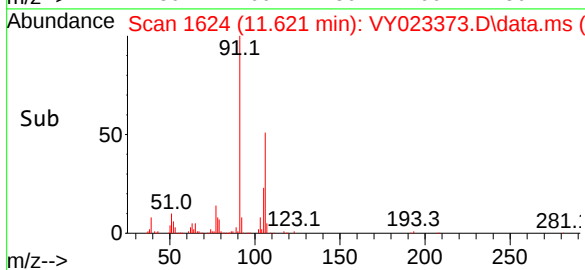
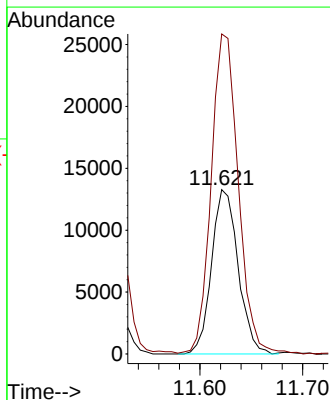
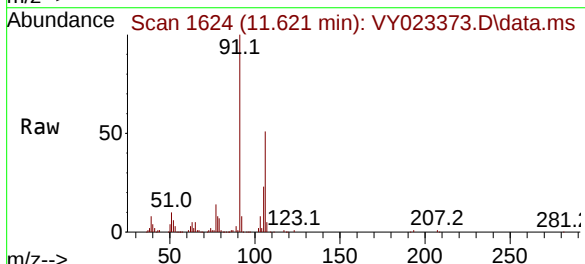
Instrument :
MSVOA_Y
ClientSampleId :

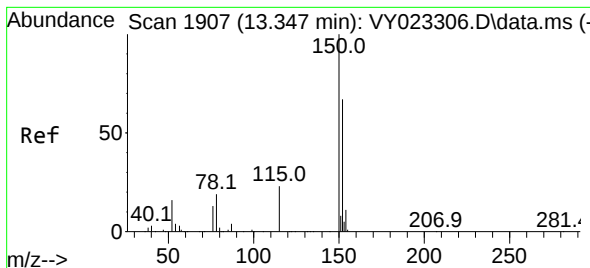
Tgt Ion:117 Resp: 1103007
Ion Ratio Lower Upper
117 100
82 52.4 43.4 65.0
119 32.4 25.6 38.4



#68
m/p-Xylenes
Concen: 1.508 ug/l
RT: 11.621 min Scan# 1624
Delta R.T. 0.000 min
Lab File: VY023373.D
Acq: 25 Sep 2025 14:56

Tgt Ion:106 Resp: 23834
Ion Ratio Lower Upper
106 100
91 198.9 158.6 238.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023373.D

Acq: 25 Sep 2025 14:56

Instrument :

MSVOA_Y

ClientSampleId :

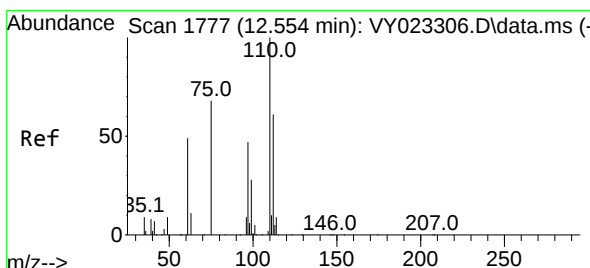
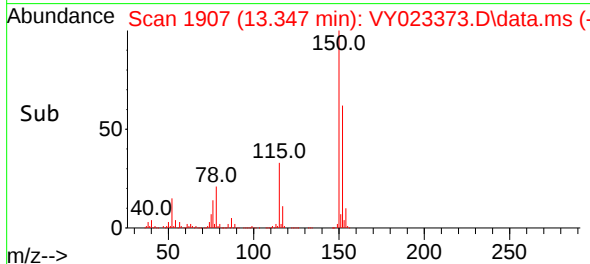
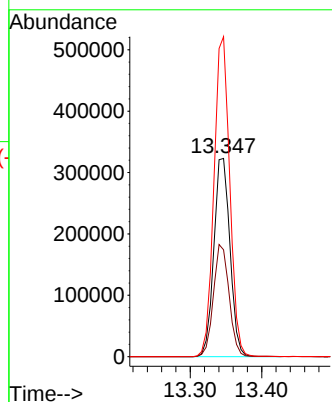
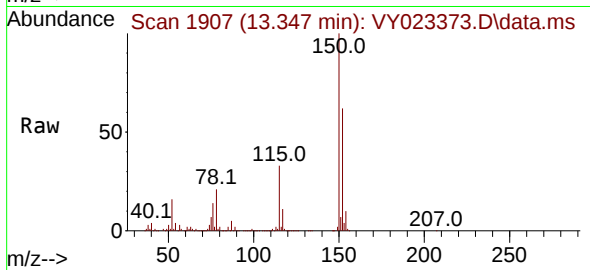
Tgt Ion:152 Resp: 505673

Ion Ratio Lower Upper

152 100

115 54.9 28.2 84.6

150 157.8 0.0 348.0



#76

1,2,3-Trichloropropane

Concen: 44.672 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. -0.146 min

Lab File: VY023373.D

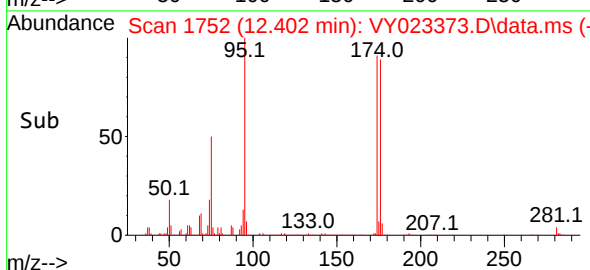
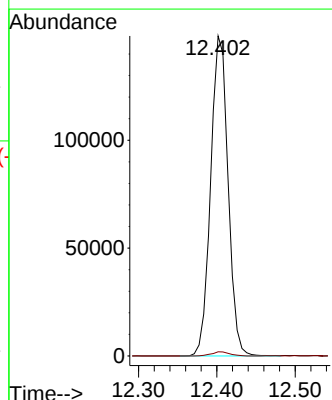
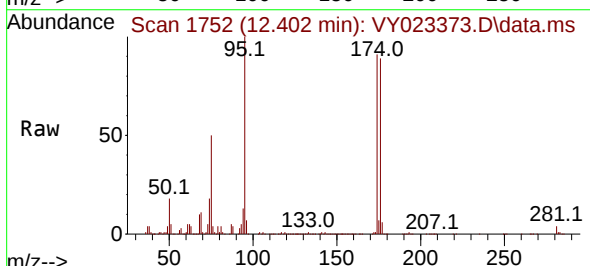
Acq: 25 Sep 2025 14:56

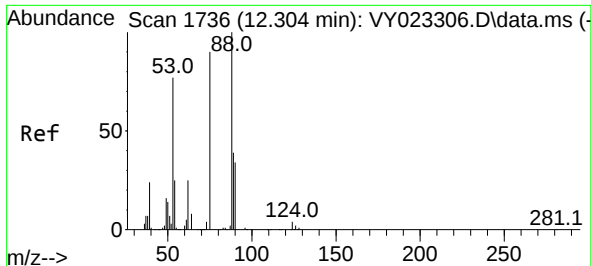
Tgt Ion: 75 Resp: 228758

Ion Ratio Lower Upper

75 100

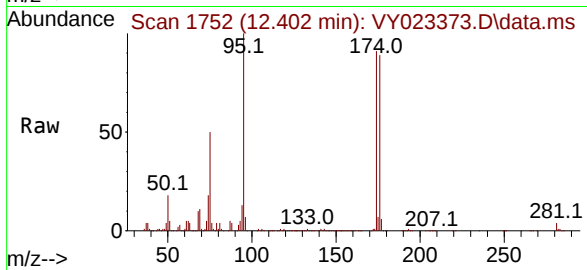
77 1.4 0.0 0.0#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 121.824 ug/l
 RT: 12.402 min Scan# 11
 Delta R.T. 0.104 min
 Lab File: VY023373.D
 Acq: 25 Sep 2025 14:56

Instrument :
 MSVOA_Y
 ClientSampleId :



Tgt Ion: 75 Resp: 228758
 Ion Ratio Lower Upper
 75 100
 53 0.1 70.8 106.2#
 89 0.0 38.1 57.1#

