

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY090225\
 Data File : VY023257.D
 Acq On : 02 Sep 2025 12:02
 Operator : SY/MD
 Sample : Q2982-03
 Misc : 5.37g/5.0mL/MSVOA_Y/SOIL/B
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 MOO-25-0244-0248

Quant Time: Sep 03 03:29:00 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)

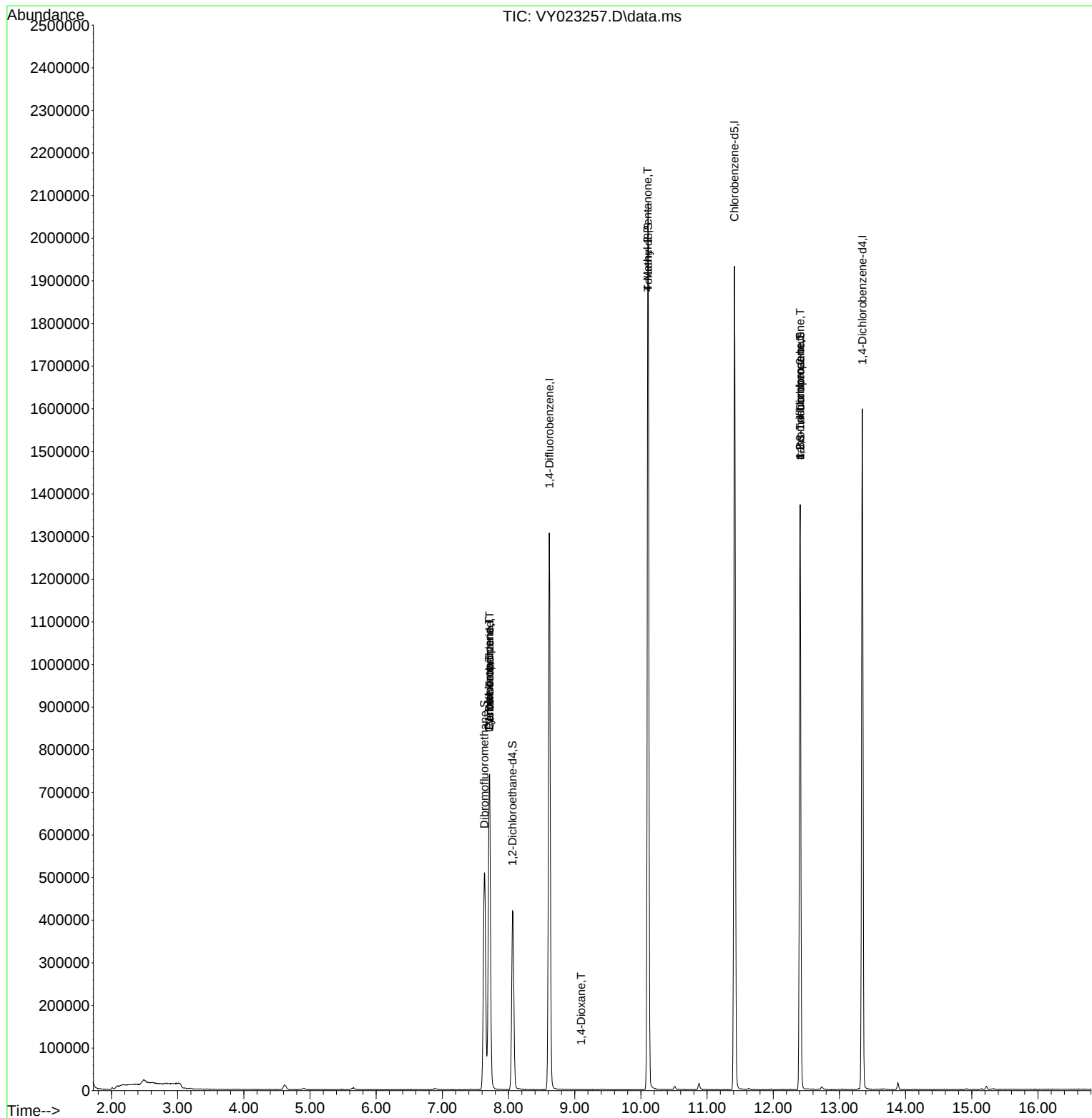
Internal Standards						
1) Pentafluorobenzene	7.713	168	609376	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.615	114	1143088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	1056918	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	430033	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	333454	57.415	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	114.840%
35) Dibromofluoromethane	7.634	113	372360	54.440	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	108.880%
50) Toluene-d8	10.109	98	1378739	51.598	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	103.200%
62) 4-Bromofluorobenzene	12.407	95	408857	47.579	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	95.160%
Target Compounds						
					Qvalue	
20) Methylene Chloride	4.622	84	8496	Below Cal	#	77
31) Cyclohexane	7.707	56	11560	1.069	ug/l #	4
36) 1,1-Dichloropropene	7.707	75	43019	4.232	ug/l #	49
38) Carbon Tetrachloride	7.713	117	57450	5.204	ug/l #	17
49) 1,4-Dioxane	9.097	88	51	1.051	ug/l #	1
51) 4-Methyl-2-Pentanone	10.103	43	5247	1.179	ug/l #	1
76) 1,2,3-Trichloropropane	12.407	75	207119	49.905	ug/l #	100
81) trans-1,4-Dichloro-2-b...	12.407	75	207119	120.804	ug/l #	14

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

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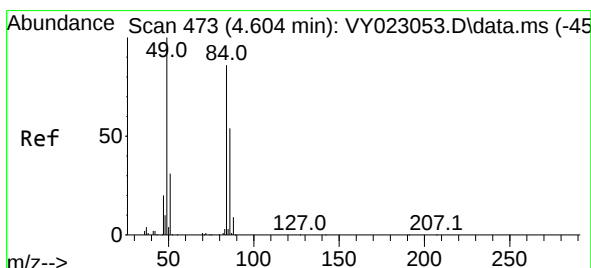
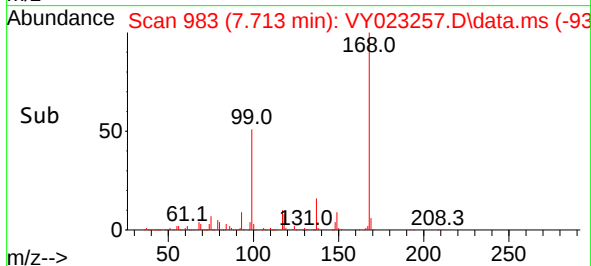
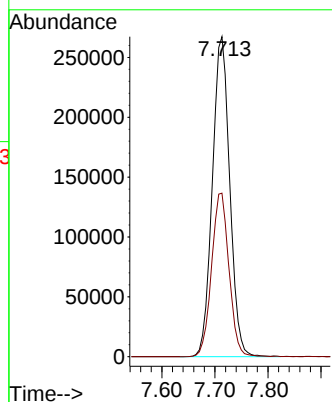
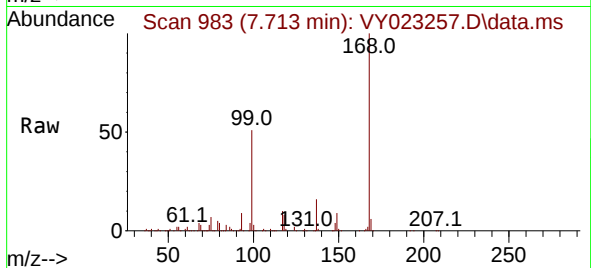




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.006 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

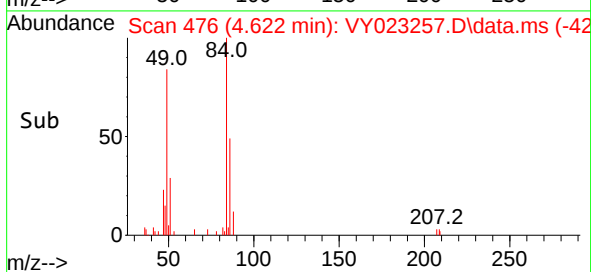
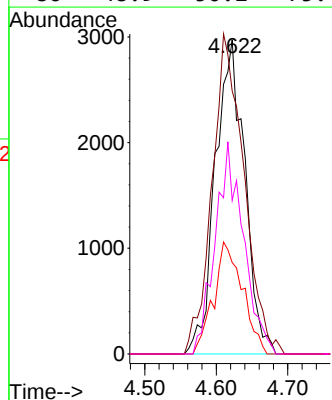
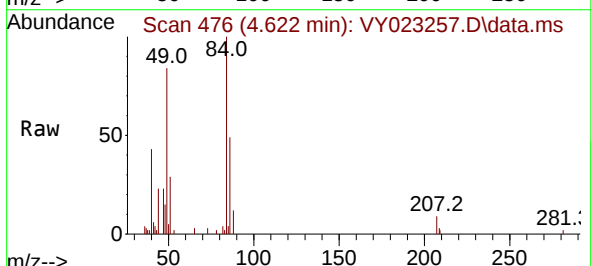
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

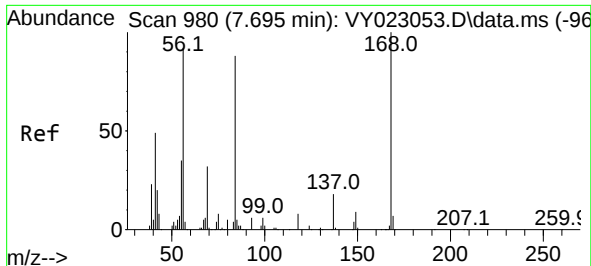
Tgt Ion:168 Resp: 609376
Ion Ratio Lower Upper
168 100
99 51.1 42.8 64.2



#20
Methylene Chloride
Concen: Below Cal
RT: 4.622 min Scan# 476
Delta R.T. 0.018 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

Tgt Ion: 84 Resp: 8496
Ion Ratio Lower Upper
84 100
49 83.7 93.0 139.6#
51 29.1 29.0 43.4
86 48.9 50.2 75.4#

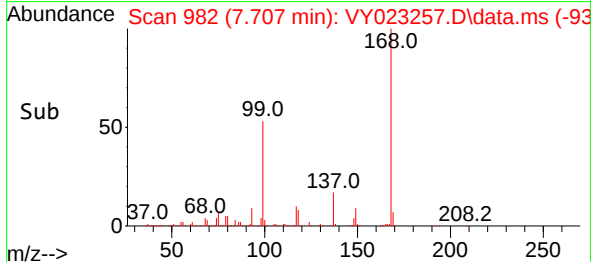
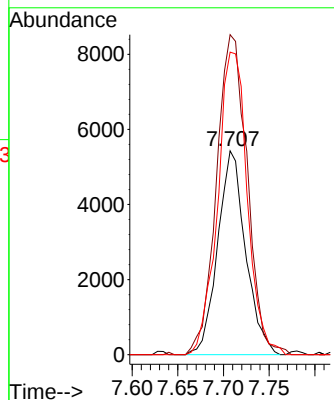
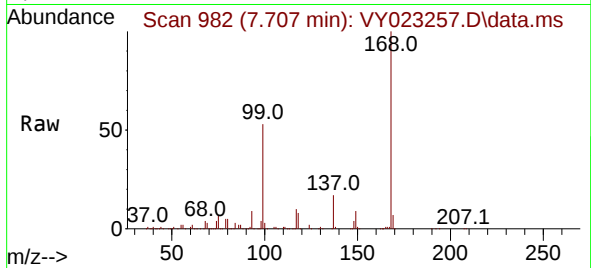




#31
Cyclohexane
Concen: 1.069 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.012 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

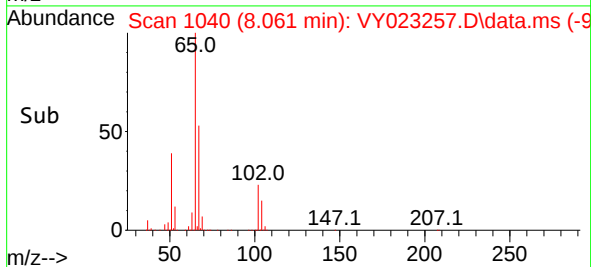
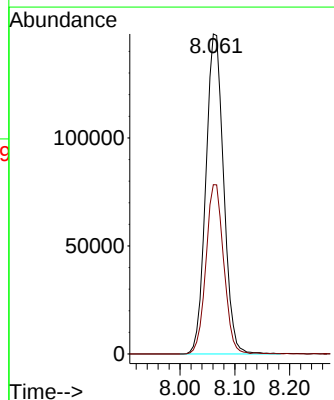
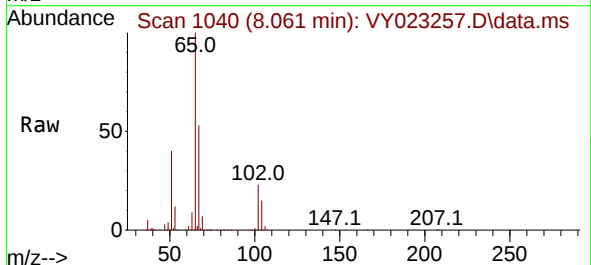
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

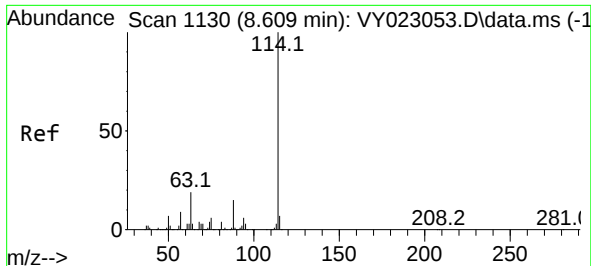
Tgt Ion: 56 Resp: 11560
Ion Ratio Lower Upper
56 100
69 157.0 28.2 42.2#
84 148.5 76.6 114.8#



#33
1,2-Dichloroethane-d4
Concen: 57.415 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. 0.006 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

Tgt Ion: 65 Resp: 333454
Ion Ratio Lower Upper
65 100
67 52.7 0.0 106.8

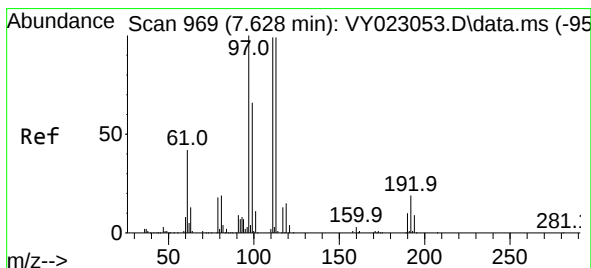
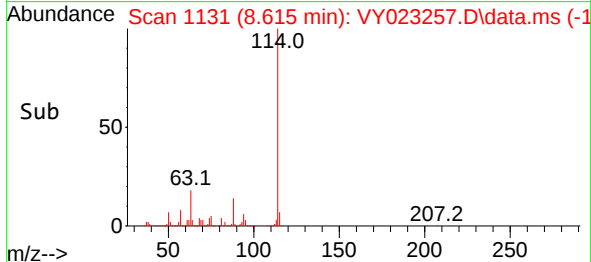
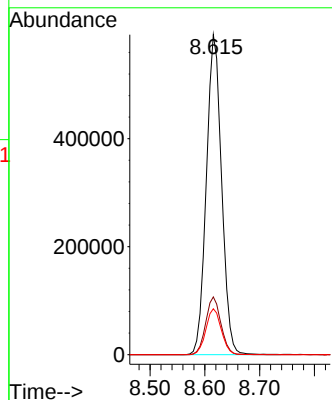
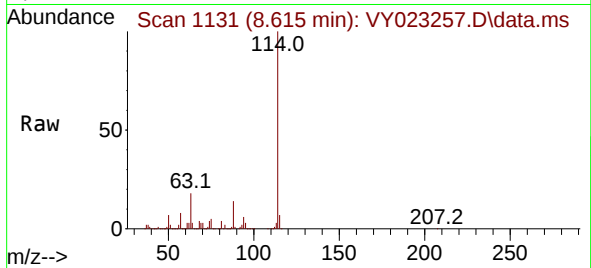




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.615 min Scan# 1131
Delta R.T. 0.006 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

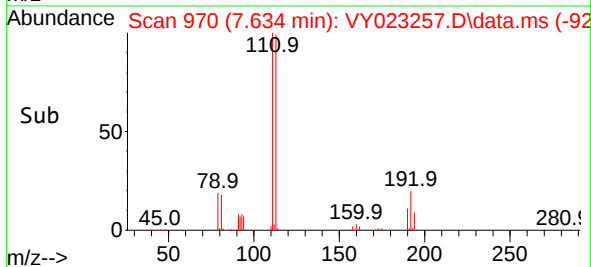
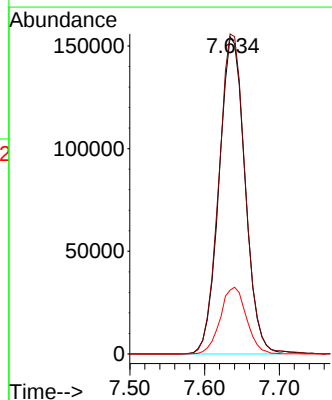
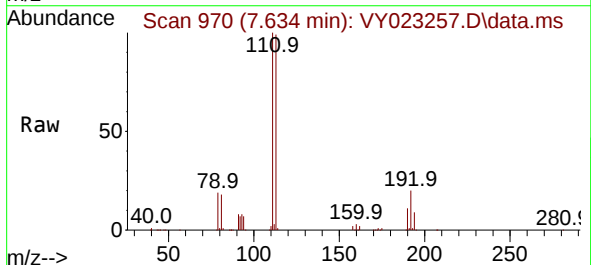
Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

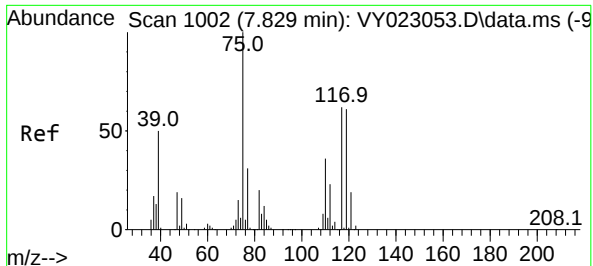
Tgt Ion:114 Resp: 1143088
Ion Ratio Lower Upper
114 100
63 18.1 0.0 38.4
88 14.4 0.0 30.0



#35
Dibromofluoromethane
Concen: 54.440 ug/l
RT: 7.634 min Scan# 970
Delta R.T. 0.006 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

Tgt Ion:113 Resp: 372360
Ion Ratio Lower Upper
113 100
111 102.6 81.1 121.7
192 21.2 16.2 24.4





#36

1,1-Dichloropropene

Concen: 4.232 ug/l

RT: 7.707 min Scan# 91

Delta R.T. -0.122 min

Lab File: VY023257.D

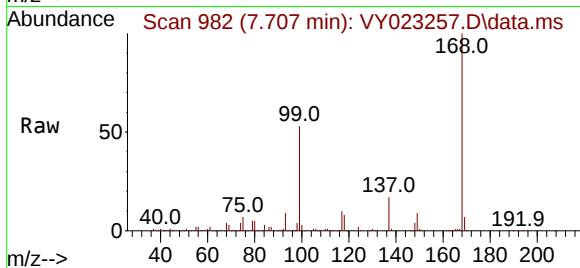
Acq: 02 Sep 2025 12:02

Instrument :

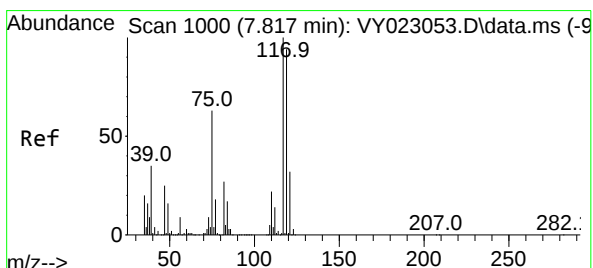
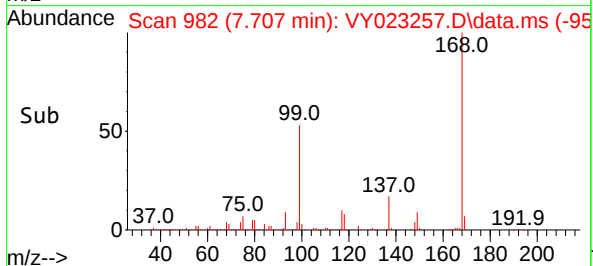
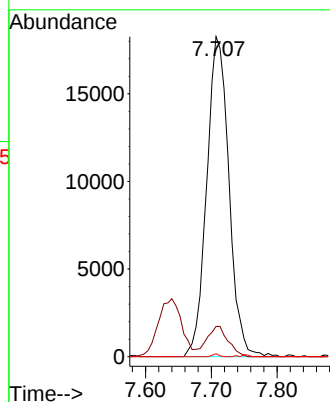
MSVOA_Y

ClientSampleId :

MOO-25-0244-0248



Tgt Ion:	75	Resp:	43019
Ion Ratio	Lower	Upper	
75	100		
110	9.1	18.1	54.4#
77	0.3	24.6	37.0#



#38

Carbon Tetrachloride

Concen: 5.204 ug/l

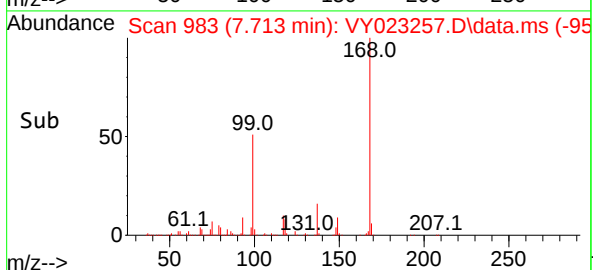
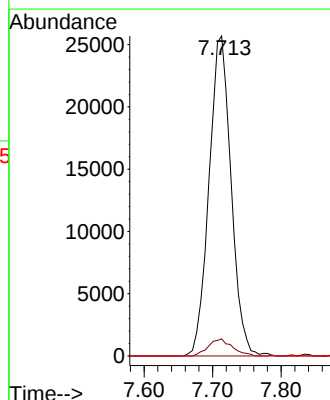
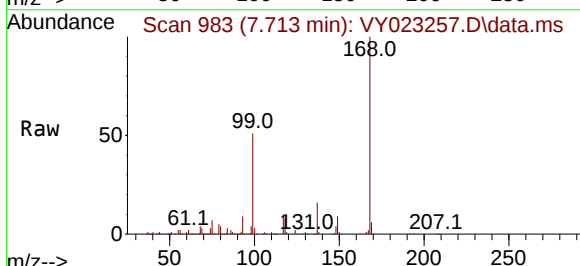
RT: 7.713 min Scan# 983

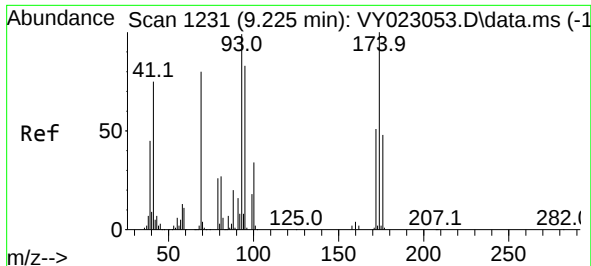
Delta R.T. -0.104 min

Lab File: VY023257.D

Acq: 02 Sep 2025 12:02

Tgt Ion:	117	Resp:	57450
Ion Ratio	Lower	Upper	
117	100		
119	5.4	75.6	113.4#
121	0.0	25.8	38.8#





#49

1,4-Dioxane

Concen: 1.051 ug/l

RT: 9.097 min Scan# 1

Delta R.T. -0.128 min

Lab File: VY023257.D

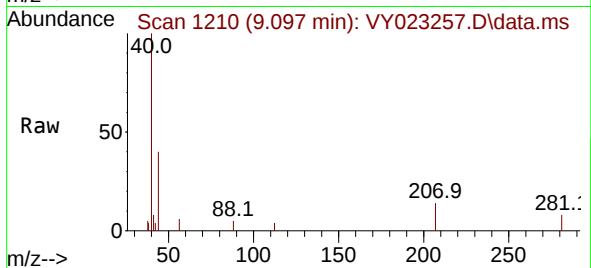
Acq: 02 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0244-0248



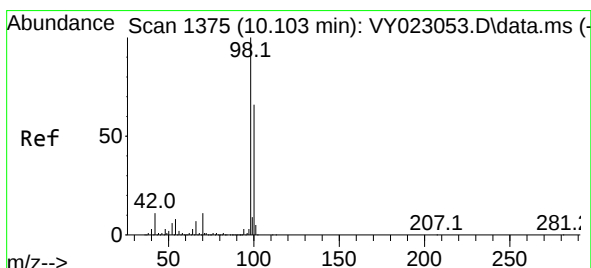
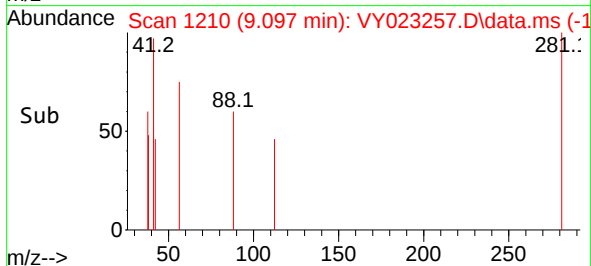
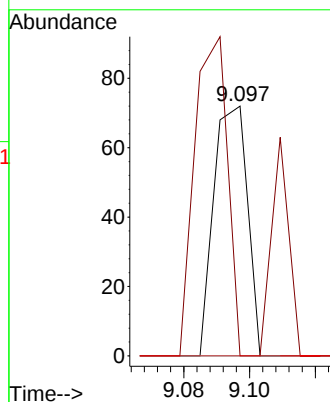
Tgt Ion: 88 Resp: 51

Ion Ratio Lower Upper

88 100

43 125.5 24.3 36.5#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 51.598 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. 0.006 min

Lab File: VY023257.D

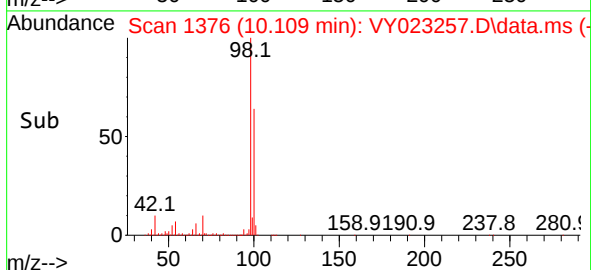
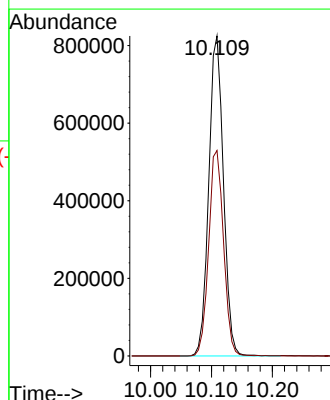
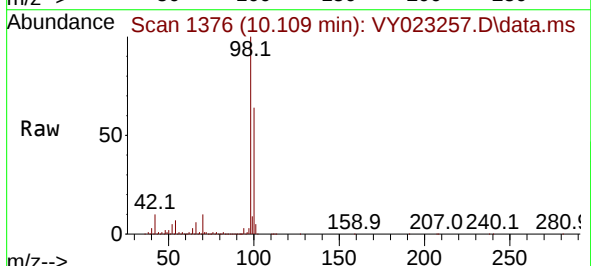
Acq: 02 Sep 2025 12:02

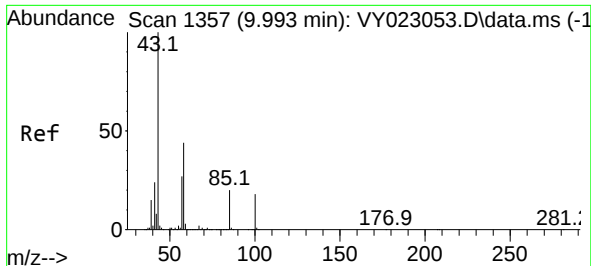
Tgt Ion: 98 Resp: 1378739

Ion Ratio Lower Upper

98 100

100 65.2 52.3 78.5





#51

4-Methyl-2-Pentanone

Concen: 1.179 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.110 min

Lab File: VY023257.D

Acq: 02 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

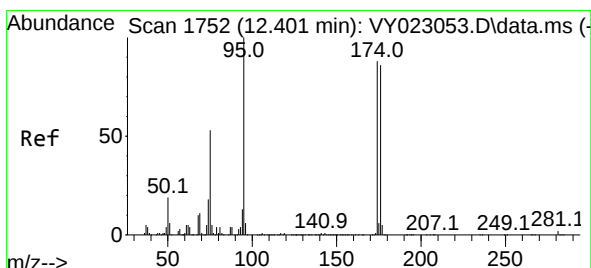
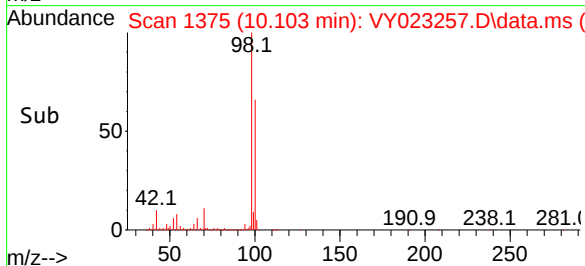
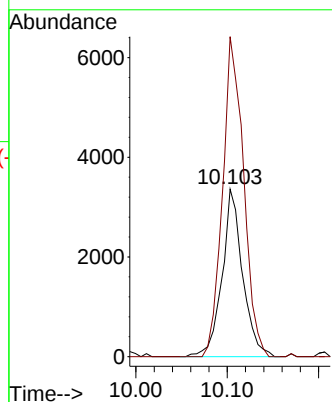
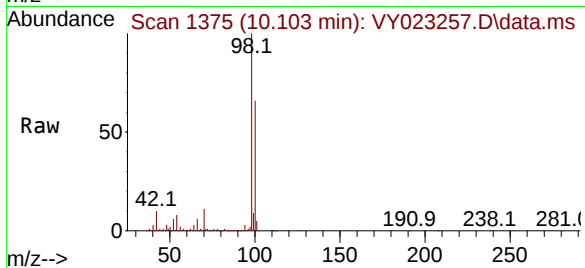
MOO-25-0244-0248

Tgt Ion: 43 Resp: 5247

Ion Ratio Lower Upper

43 100

58 195.6 33.5 50.3#



#62

4-Bromofluorobenzene

Concen: 47.579 ug/l

RT: 12.407 min Scan# 1753

Delta R.T. 0.006 min

Lab File: VY023257.D

Acq: 02 Sep 2025 12:02

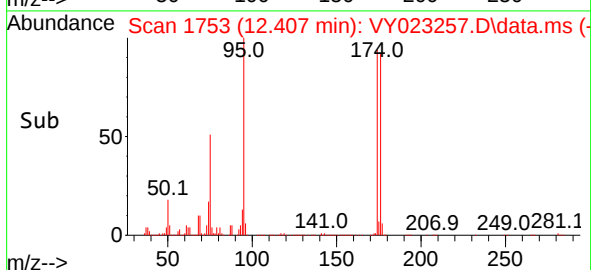
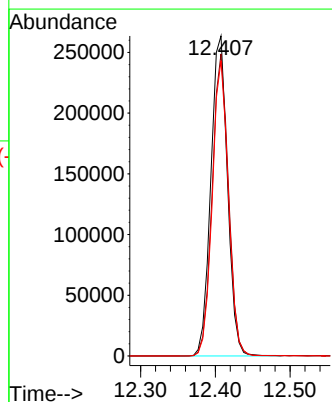
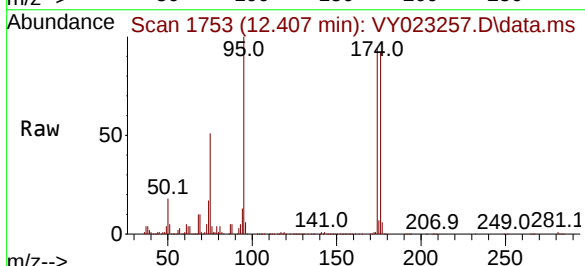
Tgt Ion: 95 Resp: 408857

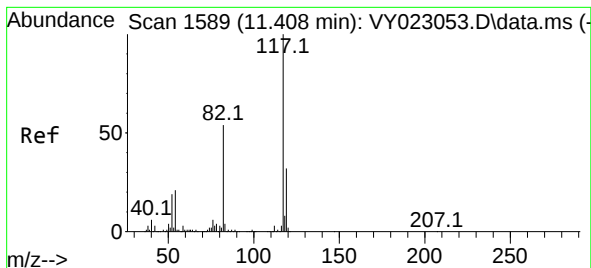
Ion Ratio Lower Upper

95 100

174 92.8 0.0 171.6

176 89.1 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: VY023257.D

Acq: 02 Sep 2025 12:02

Instrument :

MSVOA_Y

ClientSampleId :

MOO-25-0244-0248

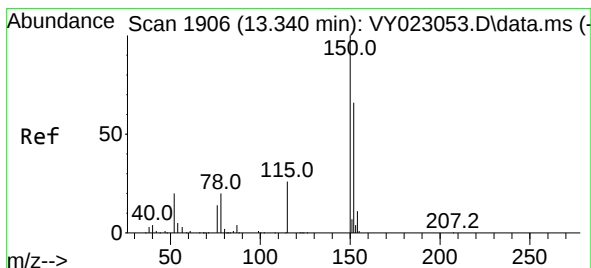
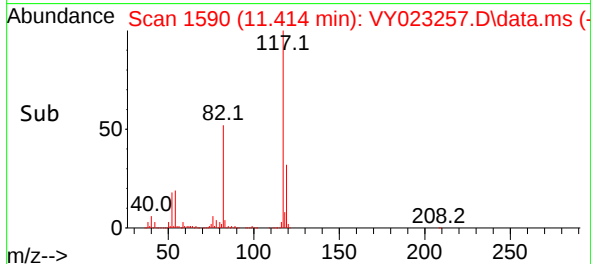
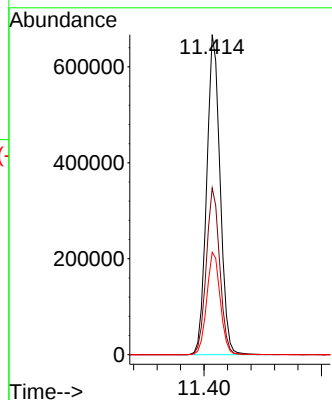
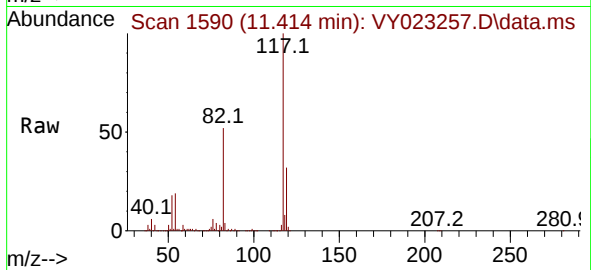
Tgt Ion:117 Resp: 1056918

Ion Ratio Lower Upper

117 100

82 52.1 43.4 65.0

119 32.0 25.6 38.4



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023257.D

Acq: 02 Sep 2025 12:02

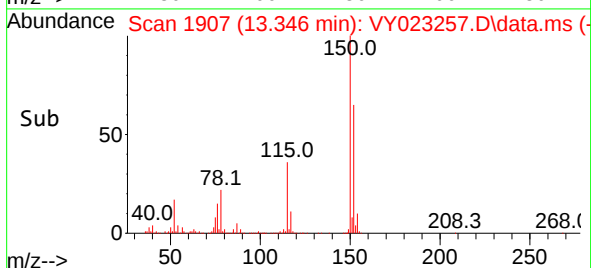
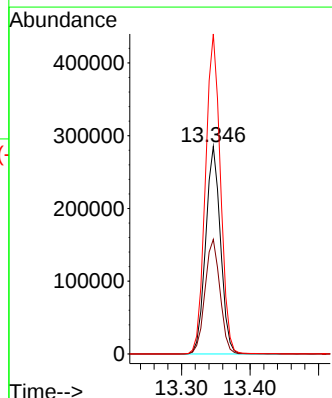
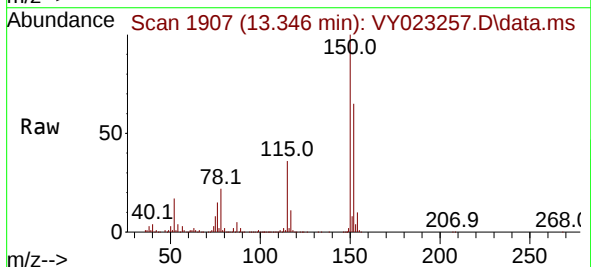
Tgt Ion:152 Resp: 430033

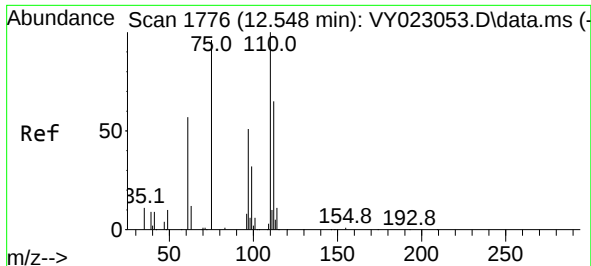
Ion Ratio Lower Upper

152 100

115 55.8 28.2 84.6

150 155.7 0.0 348.0

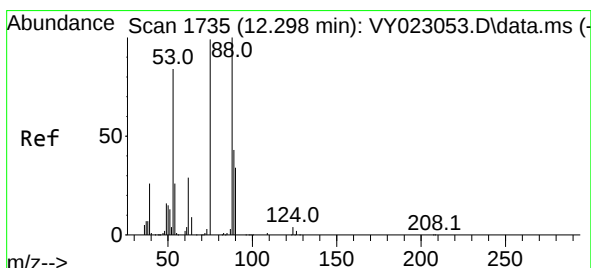
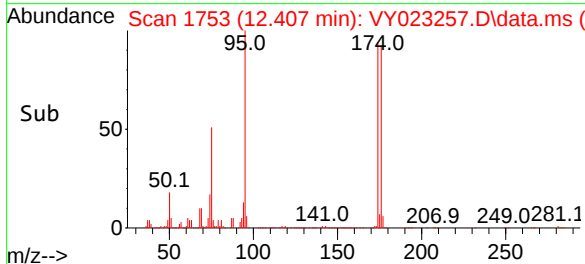
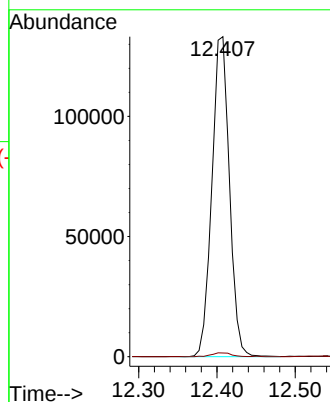
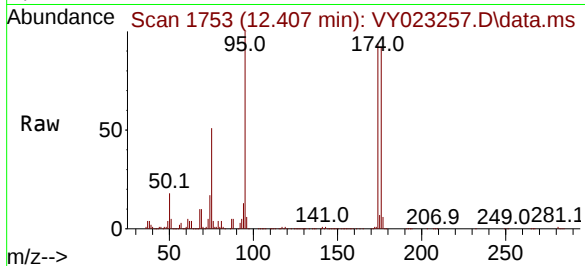




#76
1,2,3-Trichloropropane
Concen: 49.905 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. -0.140 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

Instrument :
MSVOA_Y
ClientSampleId :
MOO-25-0244-0248

Tgt Ion: 75 Resp: 207119
Ion Ratio Lower Upper
75 100
77 1.4 0.0 0.0#



#81
trans-1,4-Dichloro-2-butene
Concen: 120.804 ug/l
RT: 12.407 min Scan# 1753
Delta R.T. 0.110 min
Lab File: VY023257.D
Acq: 02 Sep 2025 12:02

Tgt Ion: 75 Resp: 207119
Ion Ratio Lower Upper
75 100
53 0.1 70.8 106.2#
89 0.0 38.1 57.1#

