

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY071825\
 Data File : VY023007.D
 Acq On : 18 Jul 2025 18:55
 Operator : SY/MD
 Sample : Q2638-13
 Misc : 4.39g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 OU4-TS-37-071725

Quant Time: Jul 19 02:15:06 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y071825S.M
 Quant Title : SW846 8260
 QLast Update : Sat Jul 19 01:50:49 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.707	168	273104	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	492239	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.414	117	483678	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.346	152	226795	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	183175	66.254	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	132.500%
35) Dibromofluoromethane	7.634	113	161587	51.750	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	103.500%
50) Toluene-d8	10.103	98	587925	47.481	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	94.960%
62) 4-Bromofluorobenzene	12.401	95	215460	55.277	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	110.560%

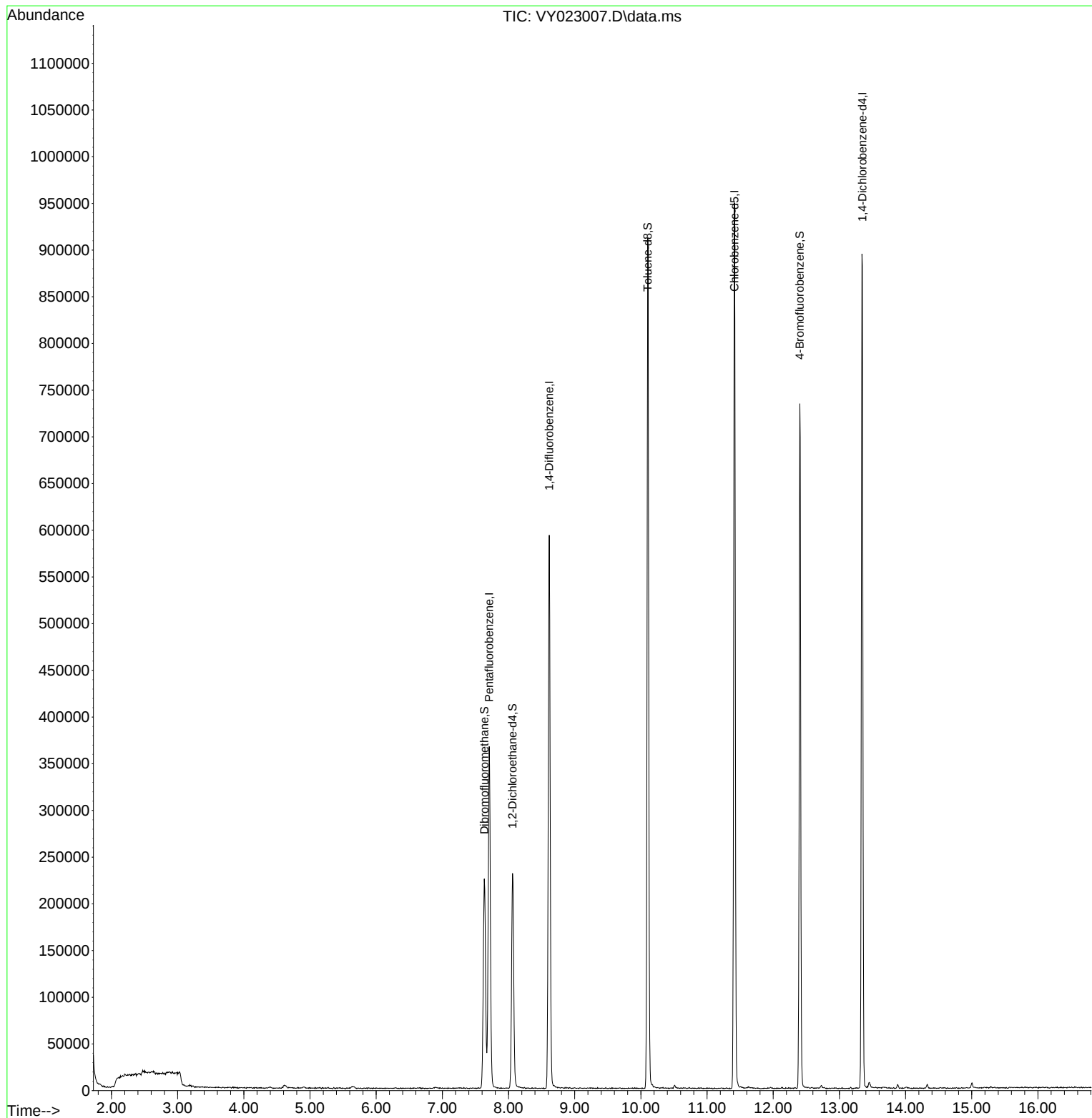
Target Compounds	Qvalue

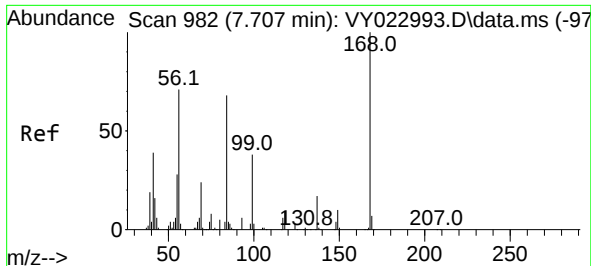
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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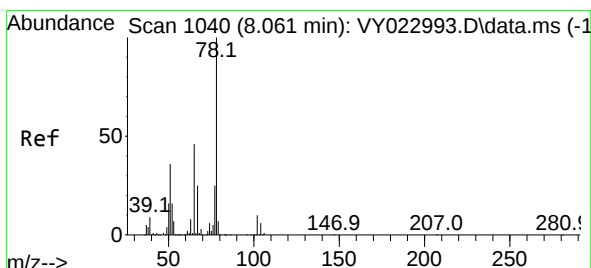
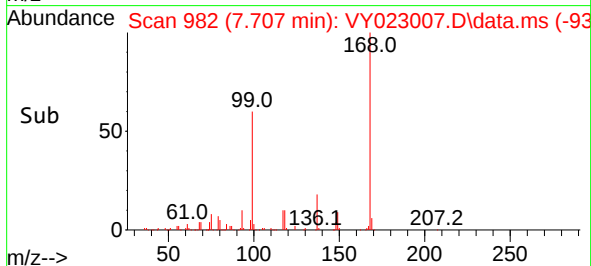
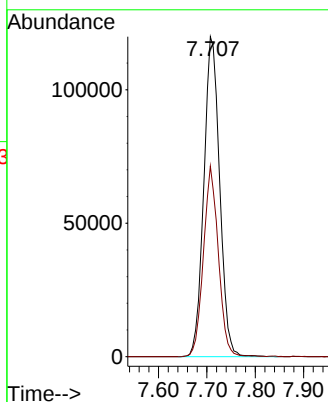
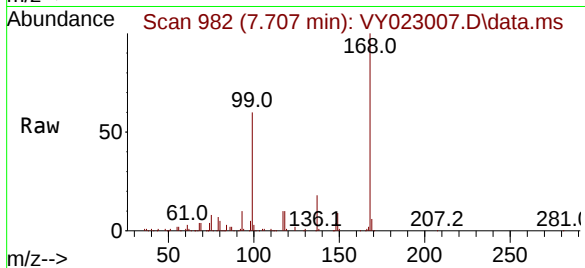




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.707 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

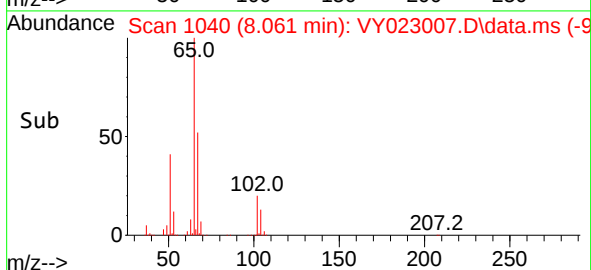
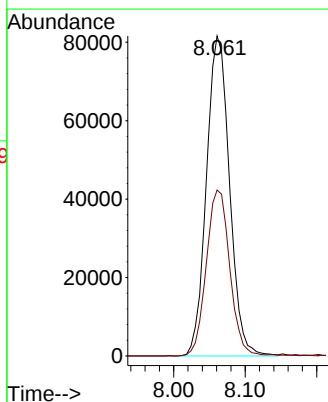
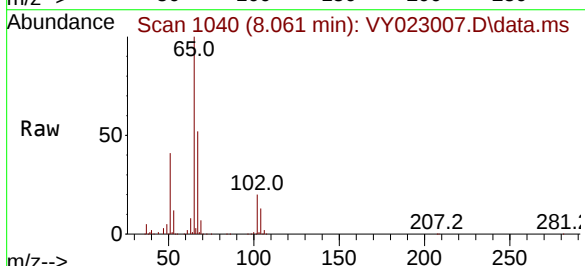
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-37-071725

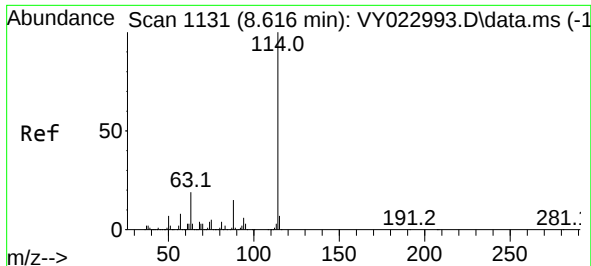
Tgt Ion:168 Resp: 273104
Ion Ratio Lower Upper
168 100
99 59.5 44.4 66.6



#33
1,2-Dichloroethane-d4
Concen: 66.254 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

Tgt Ion: 65 Resp: 183175
Ion Ratio Lower Upper
65 100
67 52.8 0.0 107.4

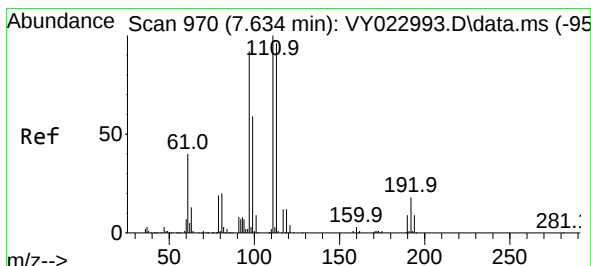
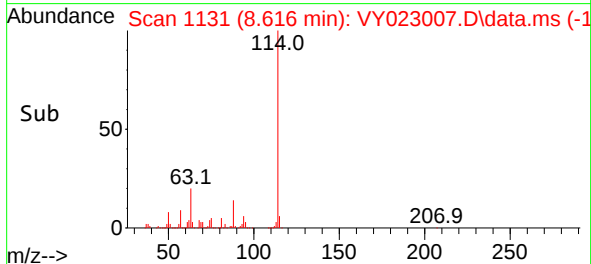
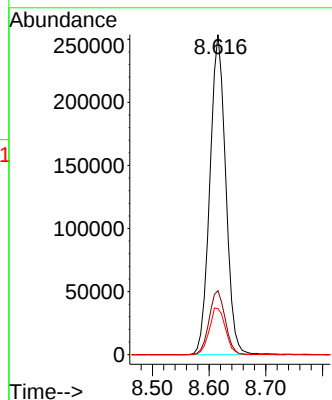
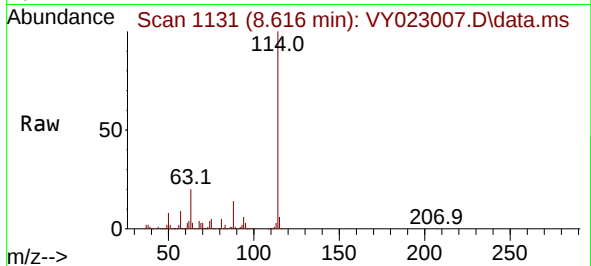




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. -0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

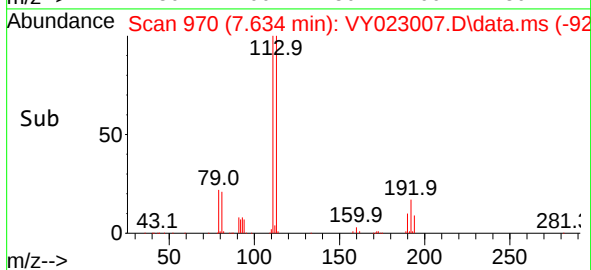
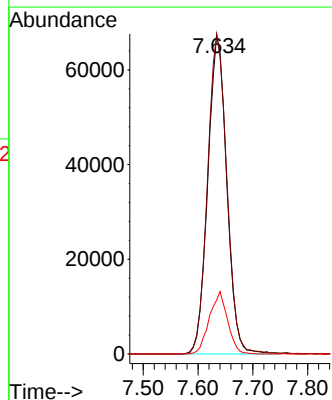
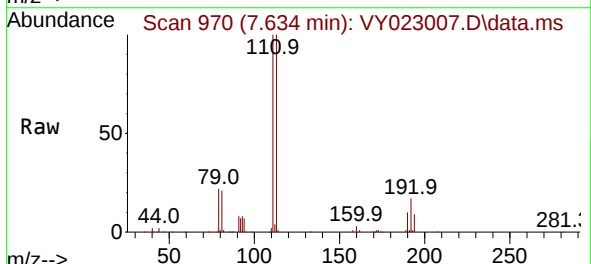
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-37-071725

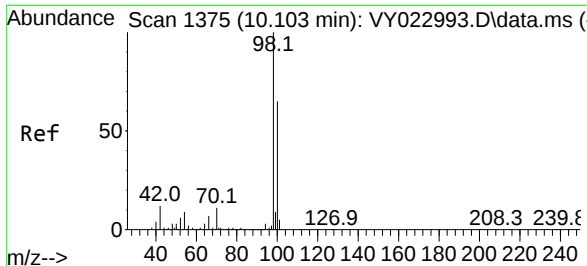
Tgt Ion:114 Resp: 492239
Ion Ratio Lower Upper
114 100
63 20.0 0.0 38.8
88 14.4 0.0 30.2



#35
Dibromofluoromethane
Concen: 51.750 ug/l
RT: 7.634 min Scan# 970
Delta R.T. -0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

Tgt Ion:113 Resp: 161587
Ion Ratio Lower Upper
113 100
111 101.9 83.2 124.8
192 18.8 15.3 22.9

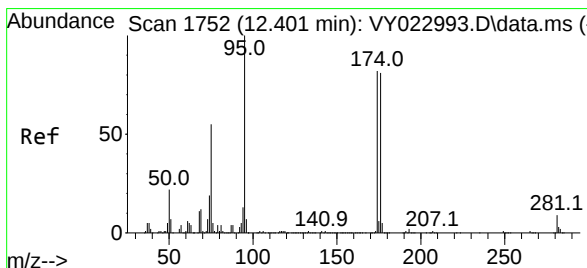
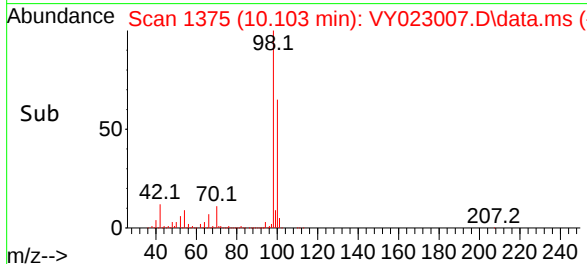
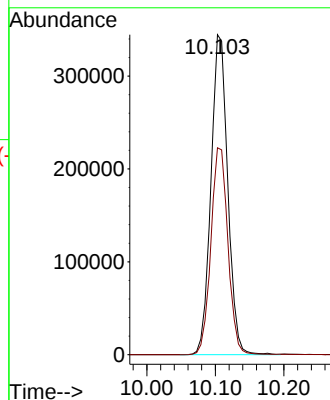
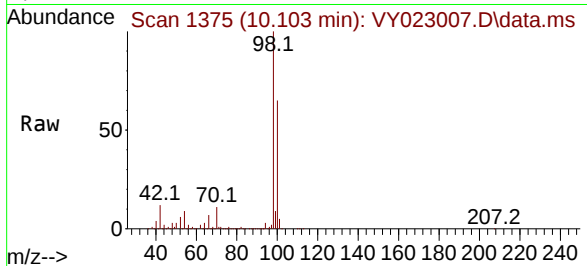




#50
Toluene-d8
Concen: 47.481 ug/l
RT: 10.103 min Scan# 1375
Delta R.T. -0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

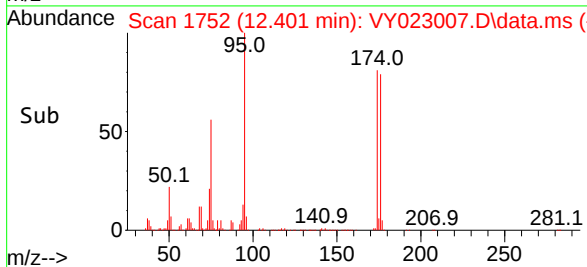
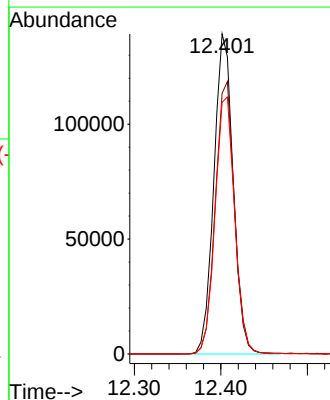
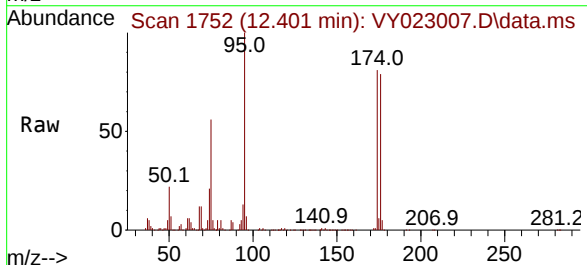
Instrument :
MSVOA_Y
ClientSampleId :
OU4-TS-37-071725

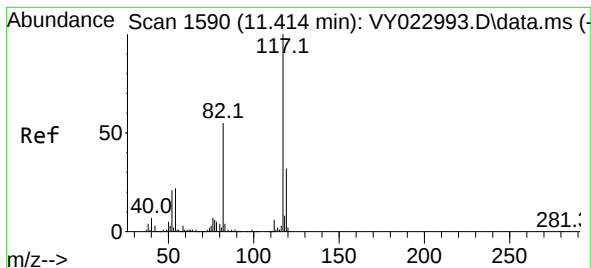
Tgt Ion: 98 Resp: 587925
Ion Ratio Lower Upper
98 100
100 65.6 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 55.277 ug/l
RT: 12.401 min Scan# 1752
Delta R.T. -0.000 min
Lab File: VY023007.D
Acq: 18 Jul 2025 18:55

Tgt Ion: 95 Resp: 215460
Ion Ratio Lower Upper
95 100
174 85.1 0.0 170.8
176 81.5 0.0 163.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. -0.000 min

Lab File: VY023007.D

Acq: 18 Jul 2025 18:55

Instrument :

MSVOA_Y

ClientSampleId :

OU4-TS-37-071725

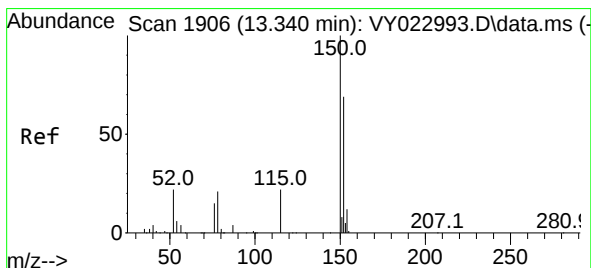
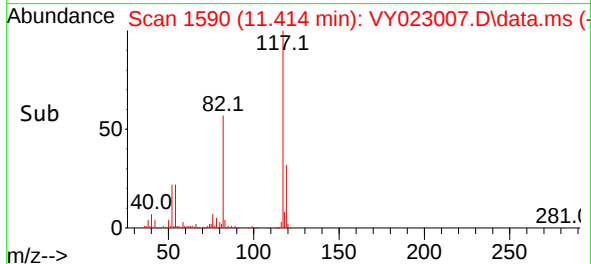
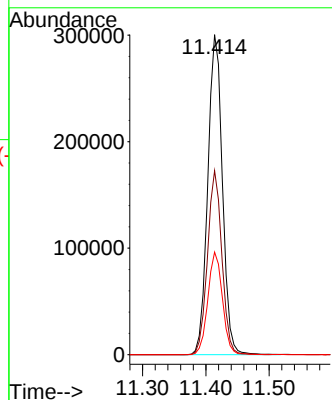
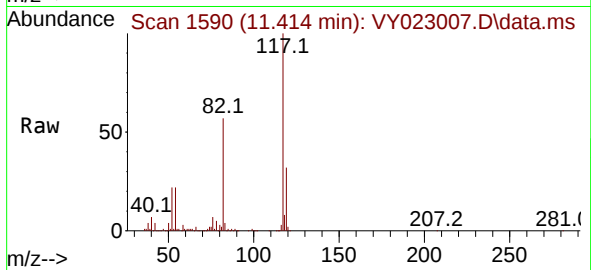
Tgt Ion:117 Resp: 483678

Ion Ratio Lower Upper

117 100

82 57.5 44.3 66.5

119 32.0 25.8 38.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.346 min Scan# 1907

Delta R.T. 0.006 min

Lab File: VY023007.D

Acq: 18 Jul 2025 18:55

Tgt Ion:152 Resp: 226795

Ion Ratio Lower Upper

152 100

115 56.7 29.4 88.2

150 157.1 0.0 350.0

