

Data Path : Z:\voasrv\HPCHEM1\MSVOA_Y\Data\VY060925\
 Data File : VY022624.D
 Acq On : 09 Jun 2025 12:49
 Operator : SY/MD
 Sample : Q2223-01
 Misc : 4.50g/5.0mL/MSVOA_Y/SOIL/A
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_Y
 ClientSampleId :
 HR-01-06042025

Quant Time: Jun 10 01:28:04 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_Y\methods\82Y060225S.M
 Quant Title : SW846 8260
 QLast Update : Tue Jun 03 03:22:04 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.713	168	213093	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.616	114	385481	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.420	117	302626	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.347	152	106626	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.061	65	113395	47.578	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	95.160%
35) Dibromofluoromethane	7.640	113	116189	50.498	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	101.000%
50) Toluene-d8	10.109	98	458692	49.338	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	98.680%
62) 4-Bromofluorobenzene	12.402	95	109498	39.530	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	79.060%

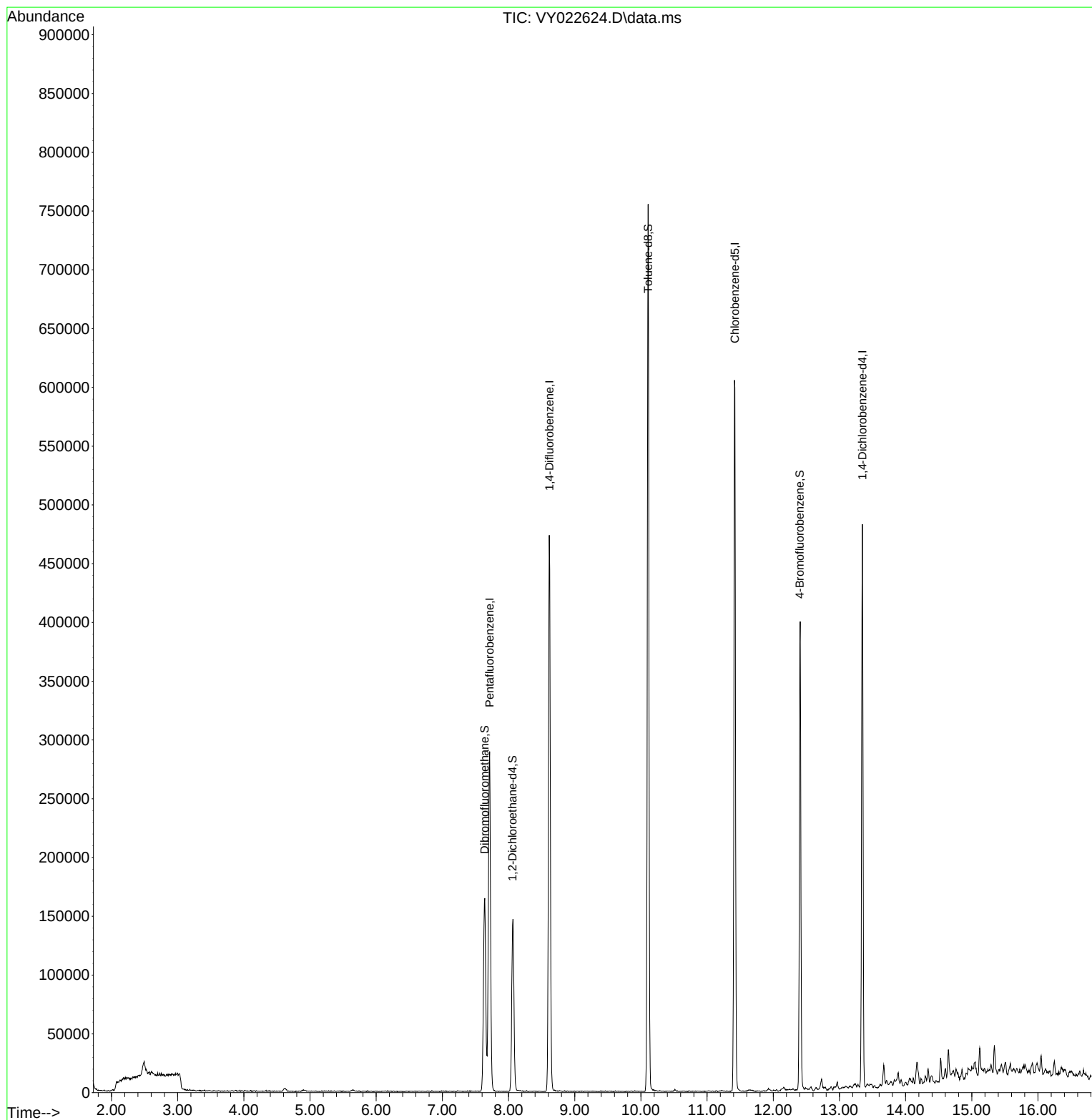
Target Compounds	Qvalue

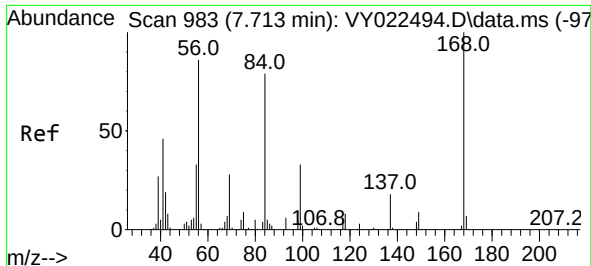
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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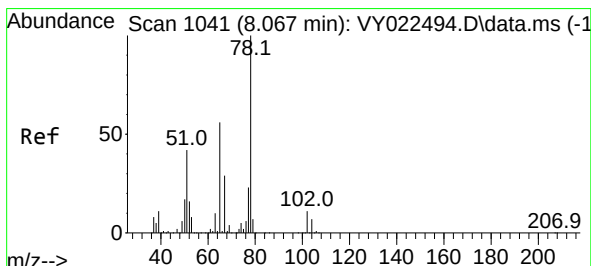
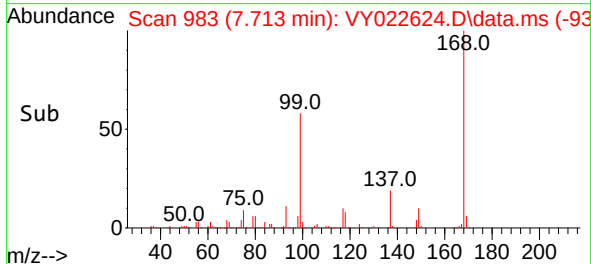
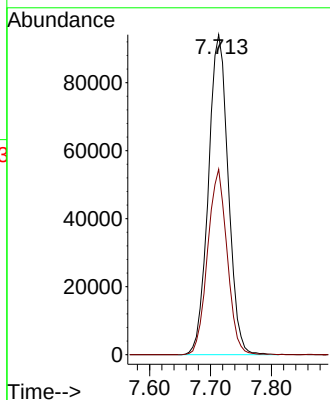
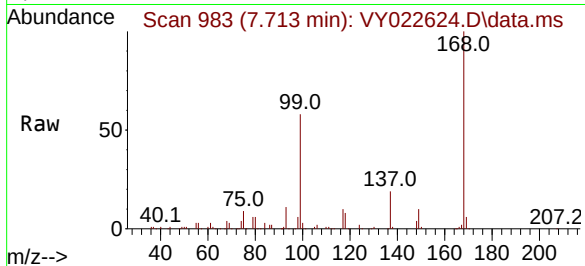




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.713 min Scan# 91
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

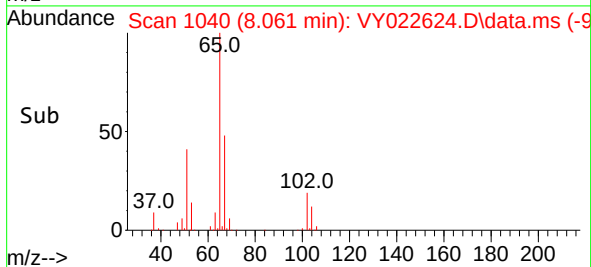
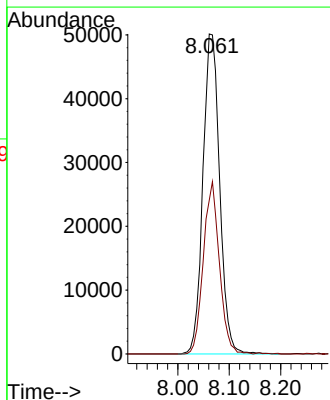
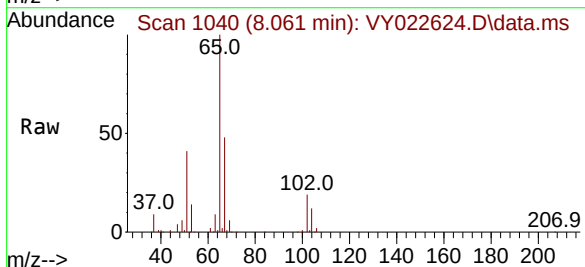
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-06042025

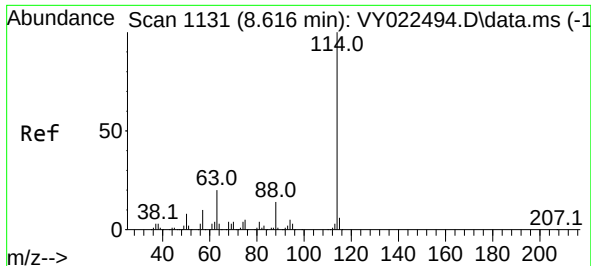
Tgt Ion:168 Resp: 213093
Ion Ratio Lower Upper
168 100
99 57.9 44.3 66.5



#33
1,2-Dichloroethane-d4
Concen: 47.578 ug/l
RT: 8.061 min Scan# 1040
Delta R.T. -0.006 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 65 Resp: 113395
Ion Ratio Lower Upper
65 100
67 51.5 0.0 103.4

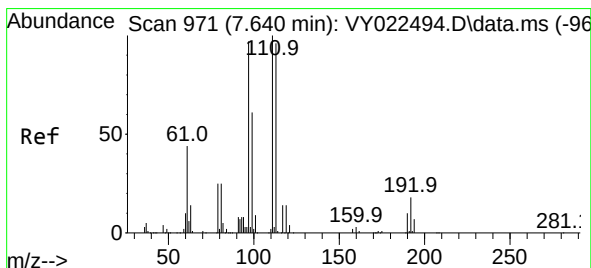
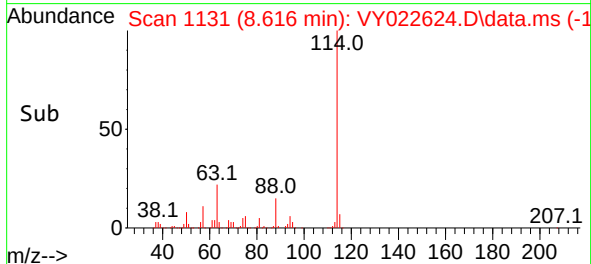
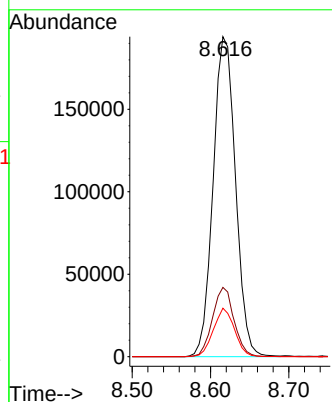
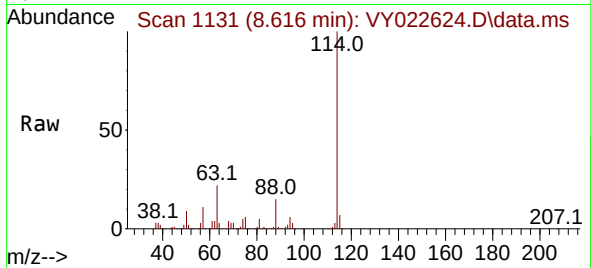




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.616 min Scan# 1131
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

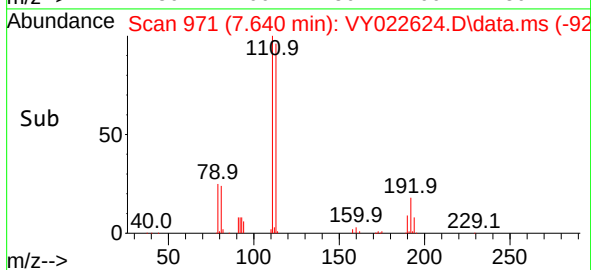
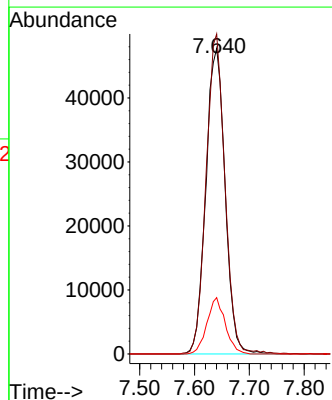
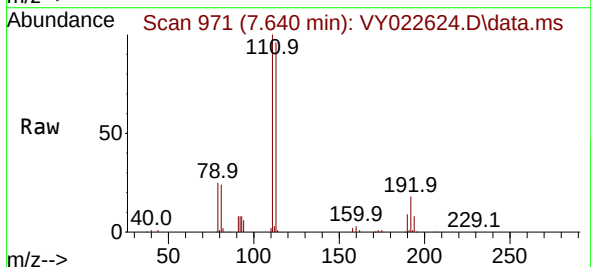
Instrument :
MSVOA_Y
ClientSampleId :
HR-01-06042025

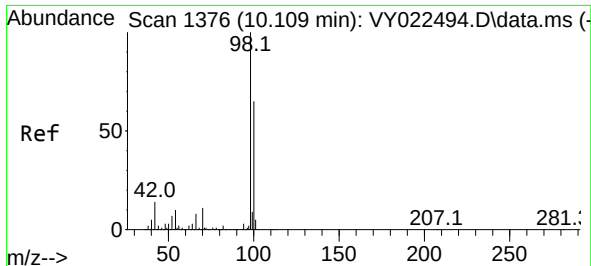
Tgt Ion:114 Resp: 385481
Ion Ratio Lower Upper
114 100
63 21.6 0.0 40.8
88 15.1 0.0 27.8



#35
Dibromofluoromethane
Concen: 50.498 ug/l
RT: 7.640 min Scan# 971
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion:113 Resp: 116189
Ion Ratio Lower Upper
113 100
111 102.4 81.1 121.7
192 17.6 14.2 21.2

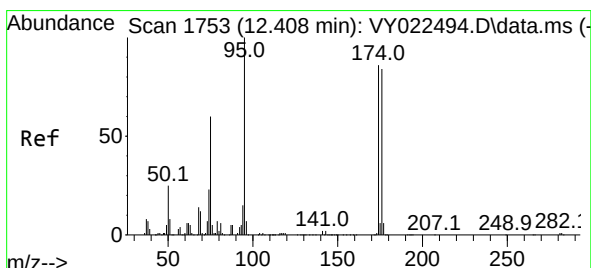
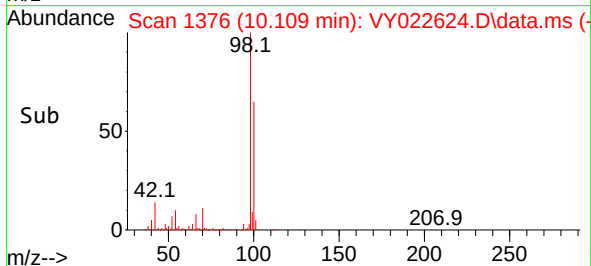
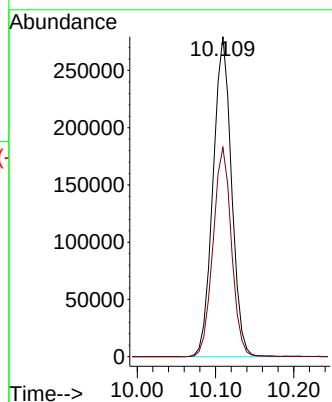
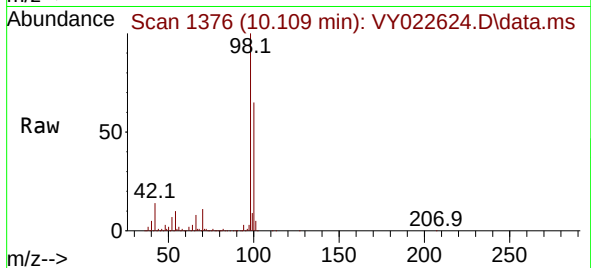




#50
Toluene-d8
Concen: 49.338 ug/l
RT: 10.109 min Scan# 11
Delta R.T. 0.000 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

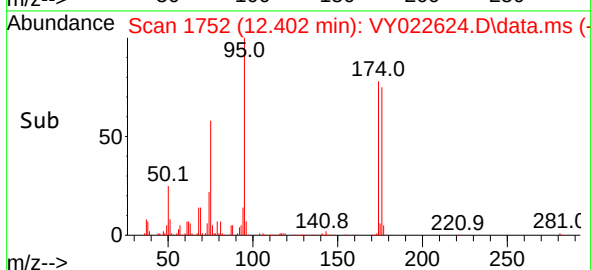
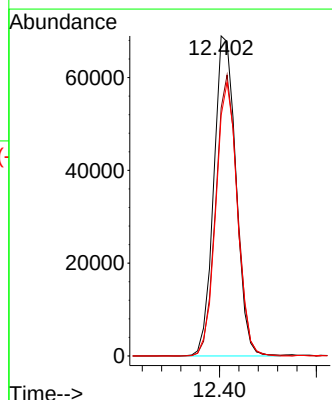
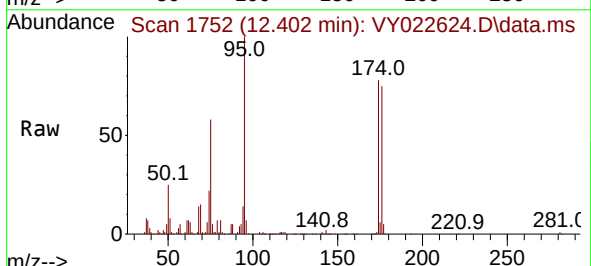
Instrument :
MSVOA_Y
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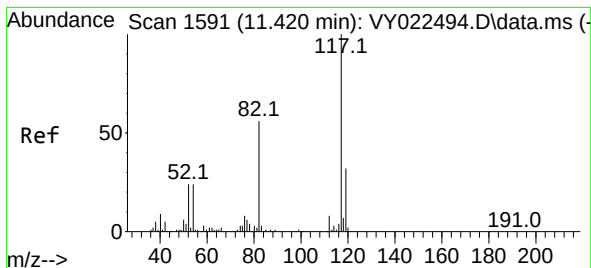
Tgt Ion: 98 Resp: 458692
Ion Ratio Lower Upper
98 100
100 64.9 51.4 77.0



#62
4-Bromofluorobenzene
Concen: 39.530 ug/l
RT: 12.402 min Scan# 1752
Delta R.T. -0.006 min
Lab File: VY022624.D
Acq: 09 Jun 2025 12:49

Tgt Ion: 95 Resp: 109498
Ion Ratio Lower Upper
95 100
174 85.3 0.0 170.0
176 83.1 0.0 166.2





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

Instrument :

MSVOA_Y

ClientSampleId :

HR-01-06042025

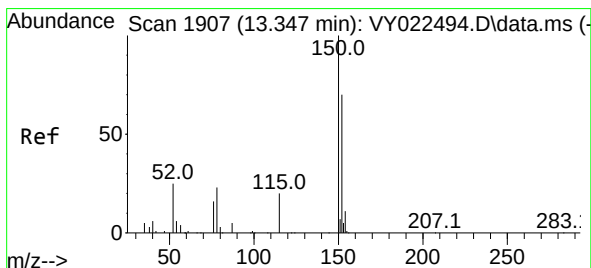
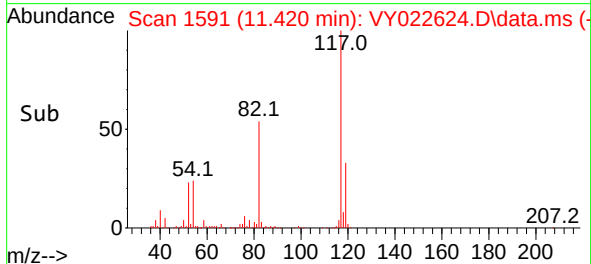
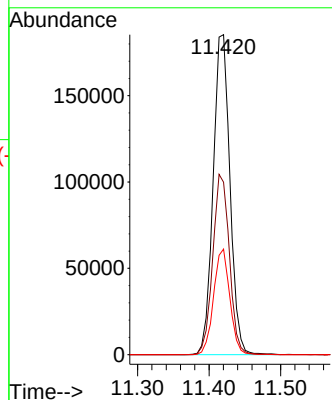
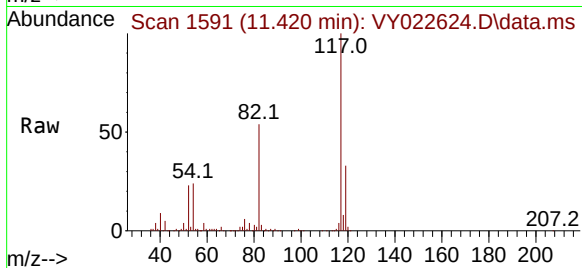
Tgt Ion:117 Resp: 302626

Ion Ratio Lower Upper

117 100

82 53.9 44.6 66.8

119 33.0 25.4 38.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY022624.D

Acq: 09 Jun 2025 12:49

Tgt Ion:152 Resp: 106626

Ion Ratio Lower Upper

152 100

115 57.6 28.9 86.7

150 158.3 0.0 349.6

