

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW120825\
 Data File : VW032587.D
 Acq On : 08 Dec 2025 11:56
 Operator : SY/MD
 Sample : Q3784-04
 Misc : 3.38g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 SB4A

Quant Time: Dec 09 02:16:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W120325S.M
 Quant Title : SW846 8260
 QLast Update : Thu Dec 04 04:04:32 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	208019	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	391791	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	366572	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	160550	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	149700	48.357	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	96.720%
35) Dibromofluoromethane	7.898	113	116907	45.343	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	90.680%
50) Toluene-d8	10.325	98	389955	40.195	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	80.380%
62) 4-Bromofluorobenzene	12.617	95	141256	39.409	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	78.820%

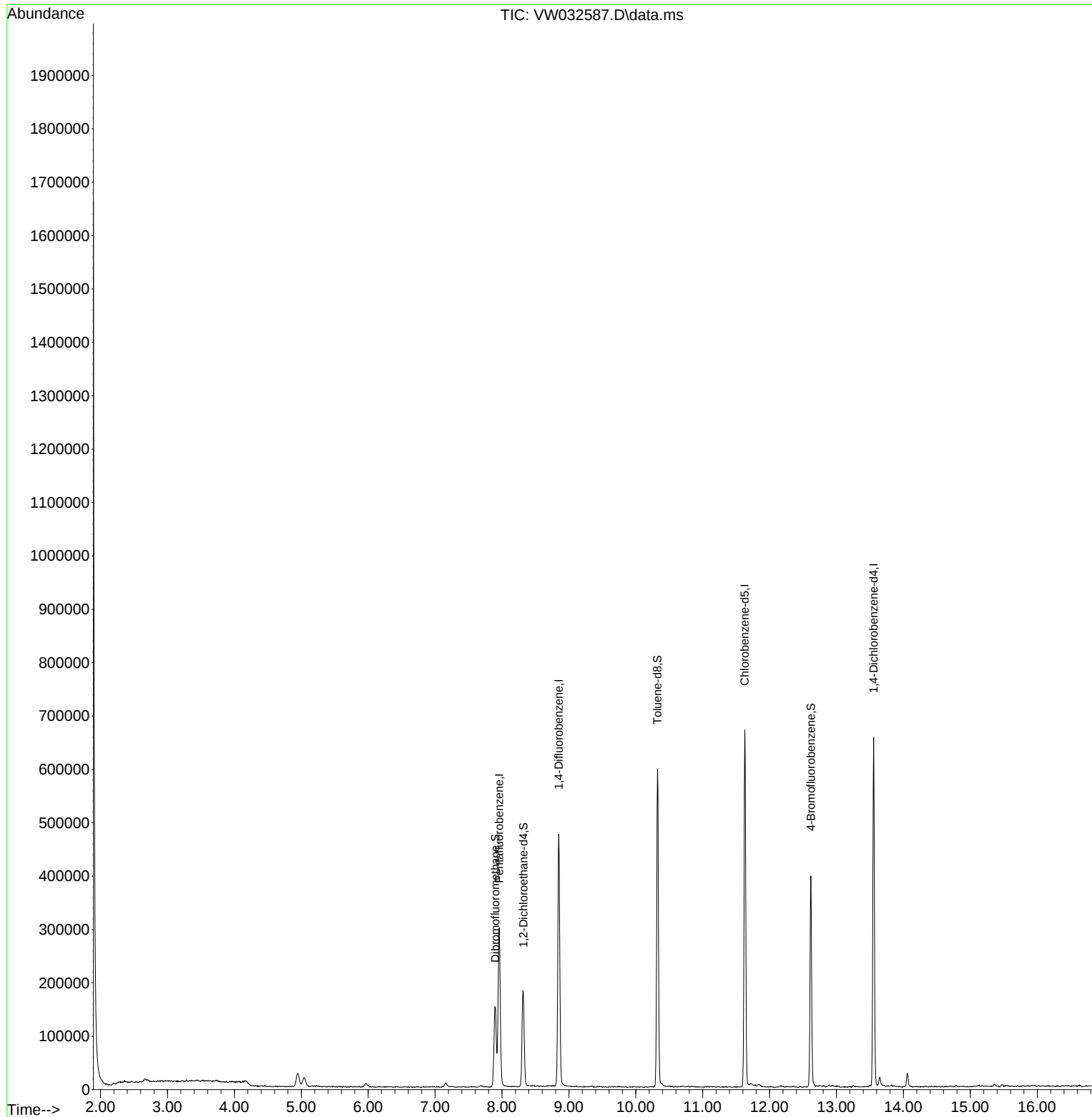
Target Compounds	Qvalue

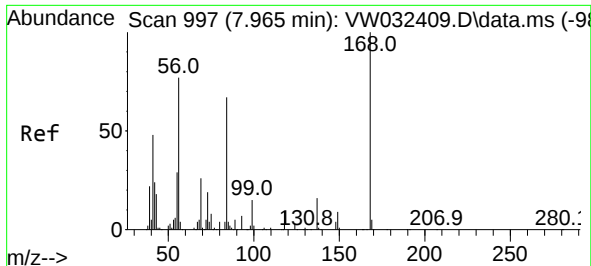
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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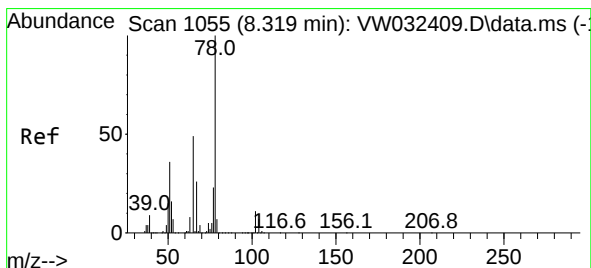
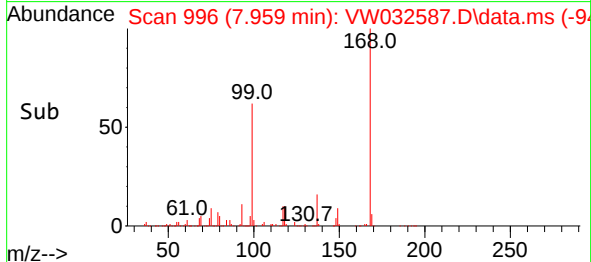
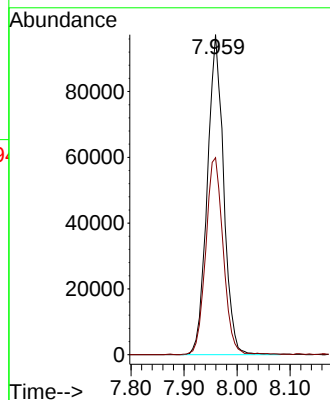
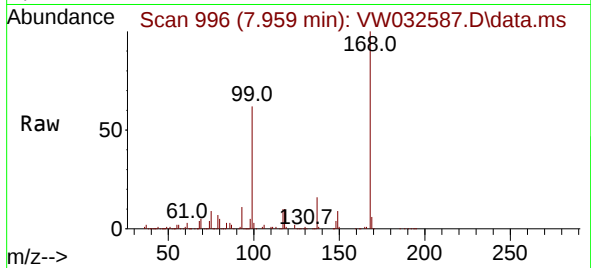




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.006 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

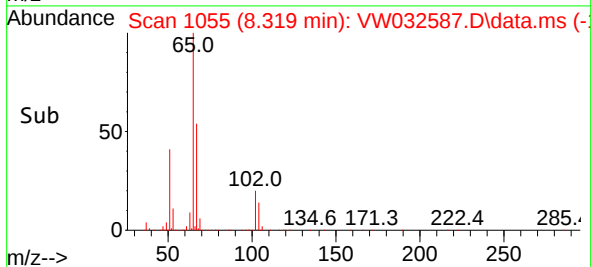
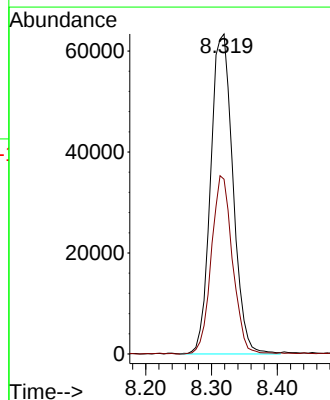
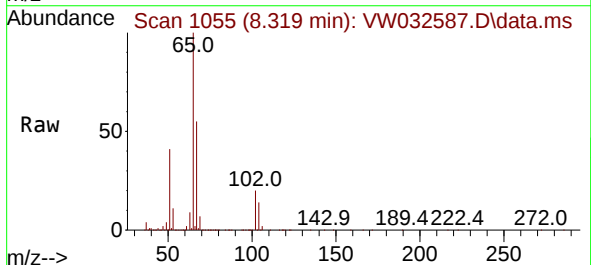
Instrument :
MSVOA_W
ClientSampleId :
SB4A

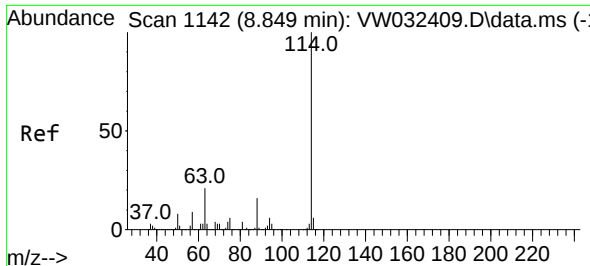
Tgt Ion:168 Resp: 208019
Ion Ratio Lower Upper
168 100
99 61.6 51.8 77.8



#33
1,2-Dichloroethane-d4
Concen: 48.357 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

Tgt Ion: 65 Resp: 149700
Ion Ratio Lower Upper
65 100
67 52.9 0.0 108.0

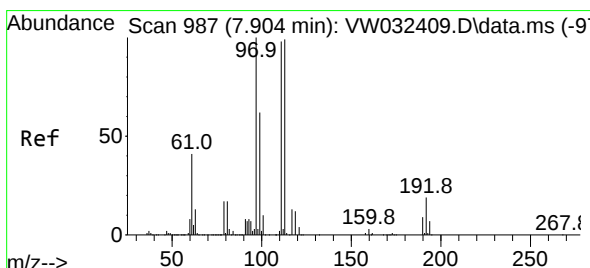
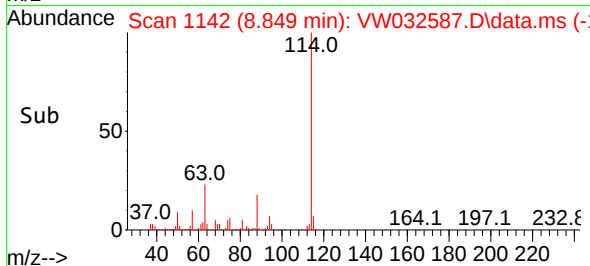
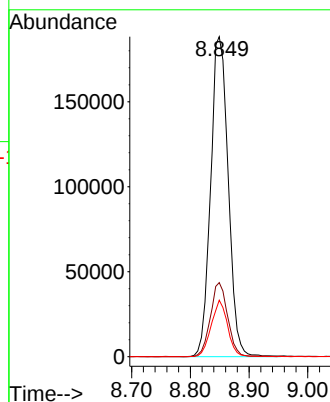
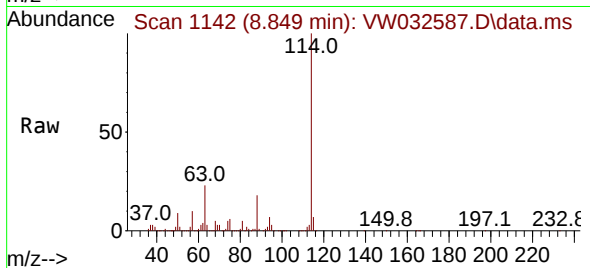




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. -0.006 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

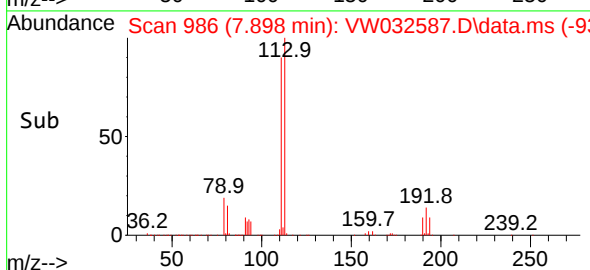
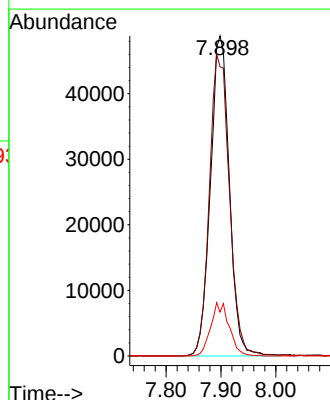
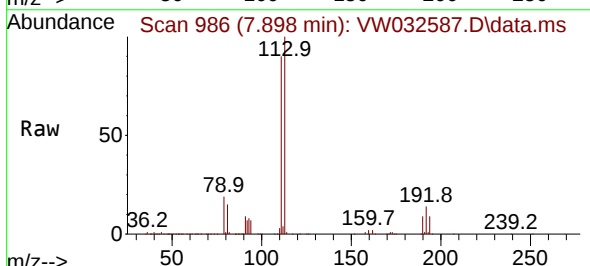
Instrument :
MSVOA_W
ClientSampleId :
SB4A

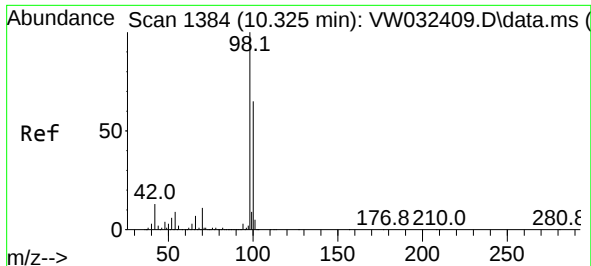
Tgt Ion:114 Resp: 391791
Ion Ratio Lower Upper
114 100
63 23.1 0.0 40.6
88 17.6 0.0 31.2



#35
Dibromofluoromethane
Concen: 45.343 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

Tgt Ion:113 Resp: 116907
Ion Ratio Lower Upper
113 100
111 99.5 83.4 125.0
192 16.3 13.4 20.2

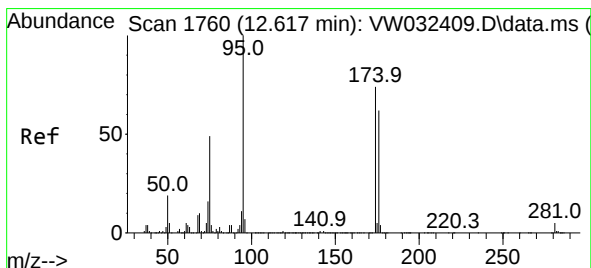
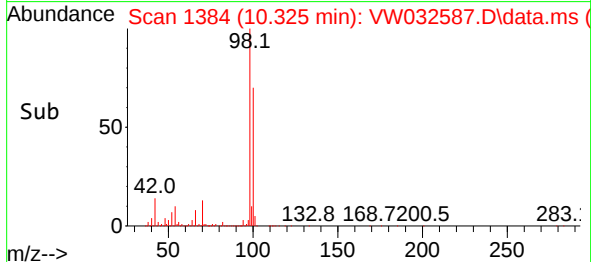
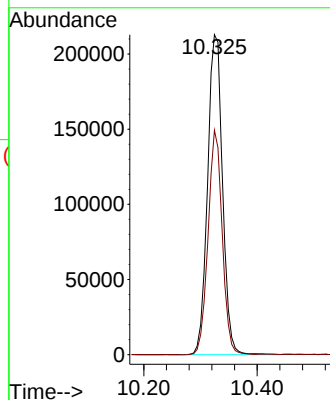
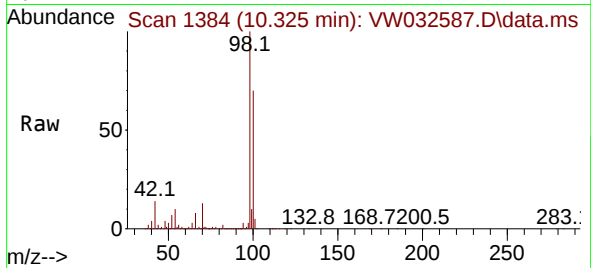




#50
Toluene-d8
Concen: 40.195 ug/l
RT: 10.325 min Scan# 11
Delta R.T. -0.000 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

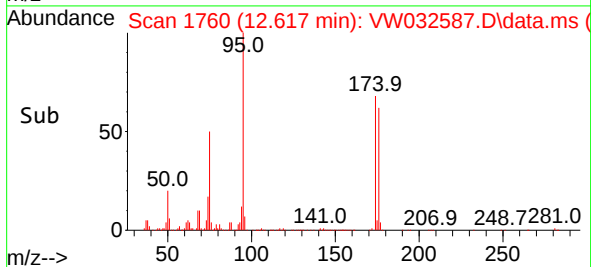
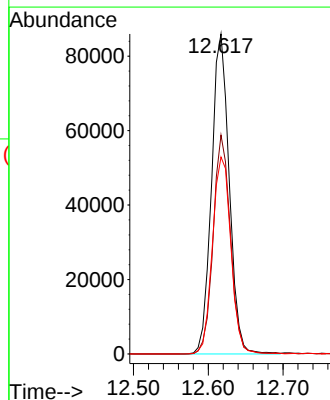
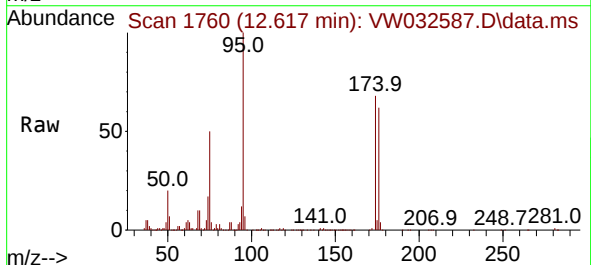
Instrument :
MSVOA_W
ClientSampleId :
SB4A

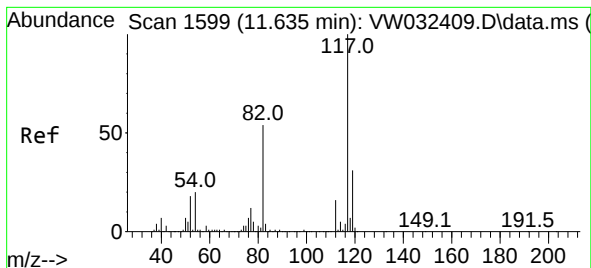
Tgt Ion: 98 Resp: 389955
Ion Ratio Lower Upper
98 100
100 66.2 54.7 82.1



#62
4-Bromofluorobenzene
Concen: 39.409 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032587.D
Acq: 08 Dec 2025 11:56

Tgt Ion: 95 Resp: 141256
Ion Ratio Lower Upper
95 100
174 66.7 0.0 141.2
176 64.2 0.0 130.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW032587.D

Acq: 08 Dec 2025 11:56

Instrument :

MSVOA_W

ClientSampleId :

SB4A

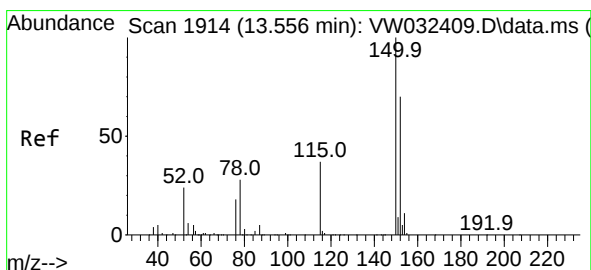
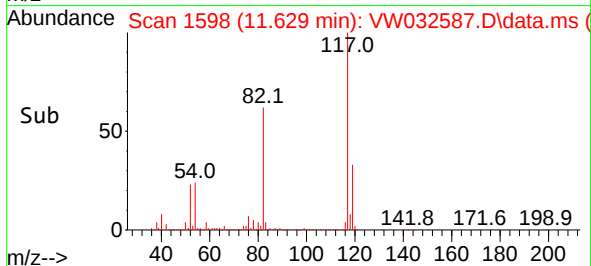
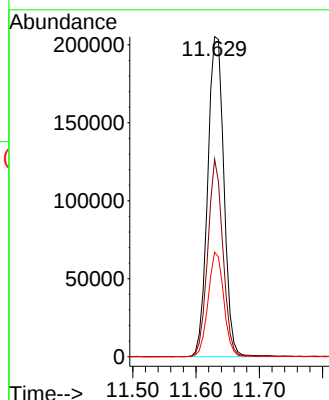
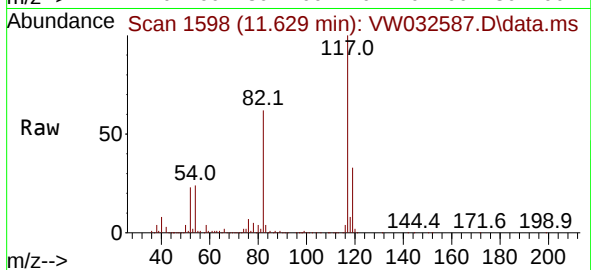
Tgt Ion:117 Resp: 366572

Ion Ratio Lower Upper

117 100

82 61.8 45.9 68.9

119 32.6 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032587.D

Acq: 08 Dec 2025 11:56

Tgt Ion:152 Resp: 160550

Ion Ratio Lower Upper

152 100

115 65.8 31.1 93.3

150 161.2 0.0 351.2

