

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW111925\
 Data File : VW032501.D
 Acq On : 19 Nov 2025 14:42
 Operator : SY/MD
 Sample : Q3664-03
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0013

Quant Time: Nov 20 01:19:20 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.959	168	214567	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	499742	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.629	117	523165	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	255703	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	155178	56.096	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	112.200%
35) Dibromofluoromethane	7.898	113	56454	18.868	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	37.740%#
50) Toluene-d8	10.325	98	517013	45.041	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	90.080%
62) 4-Bromofluorobenzene	12.617	95	226465	52.227	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	104.460%

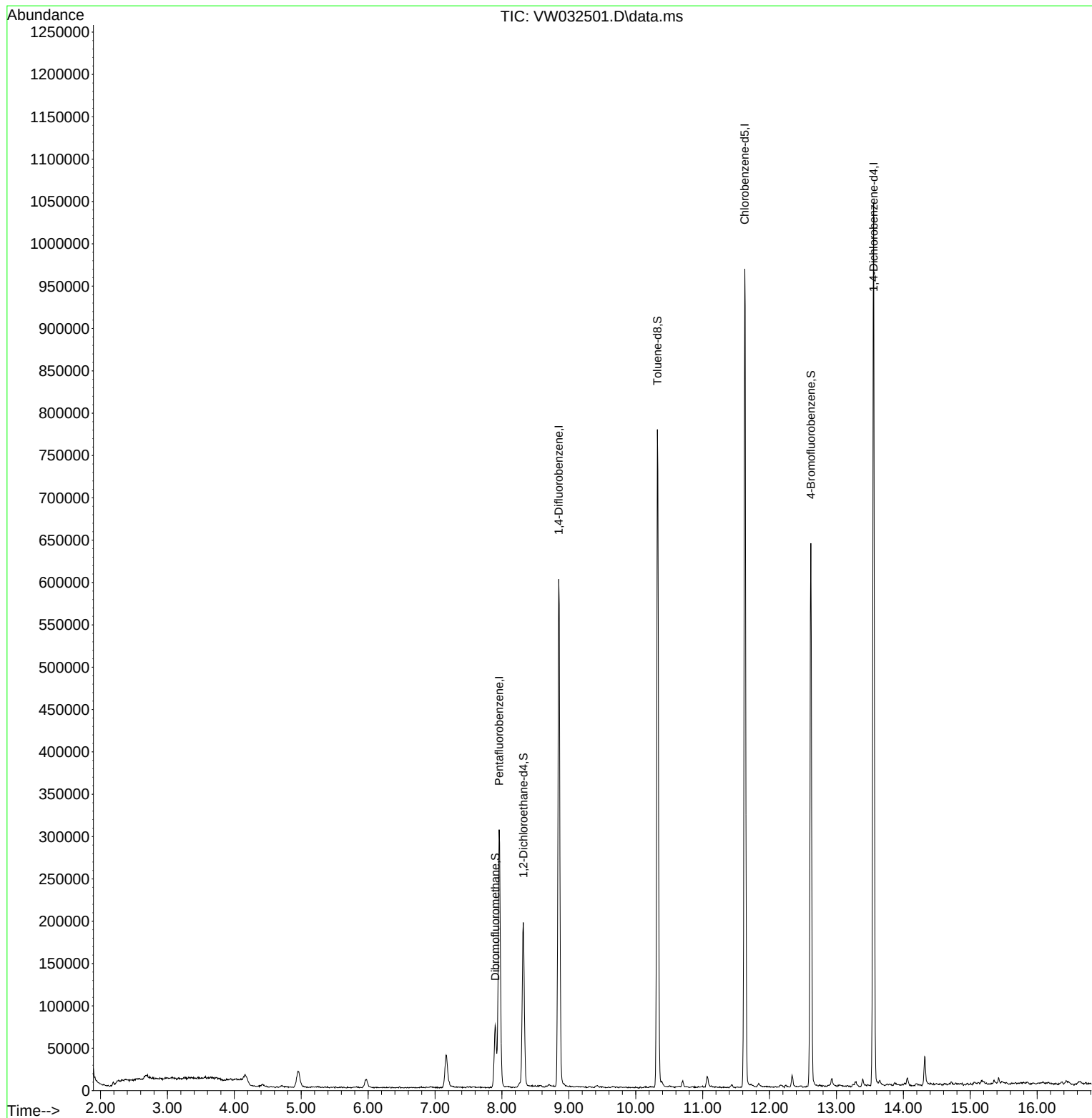
Target Compounds	Qvalue

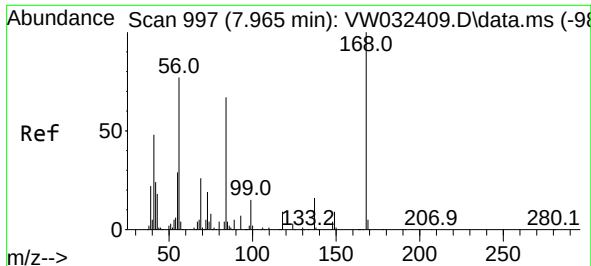
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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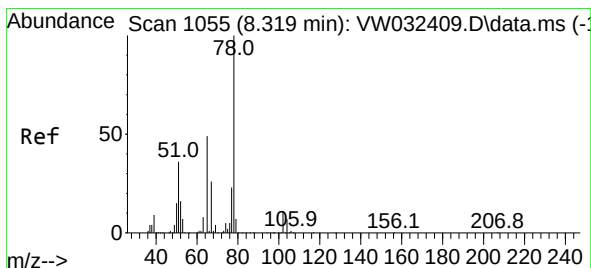
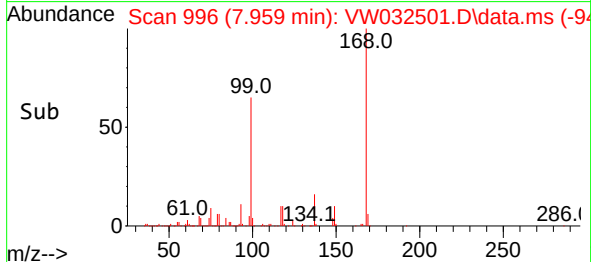
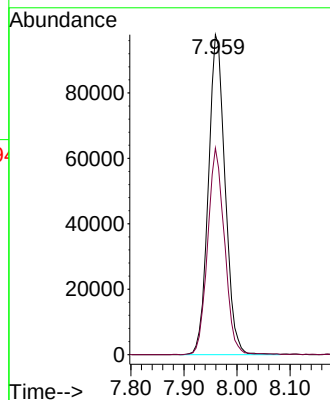
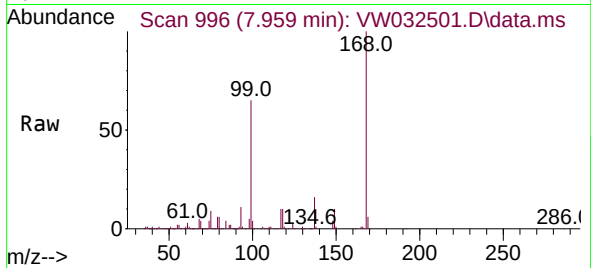




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

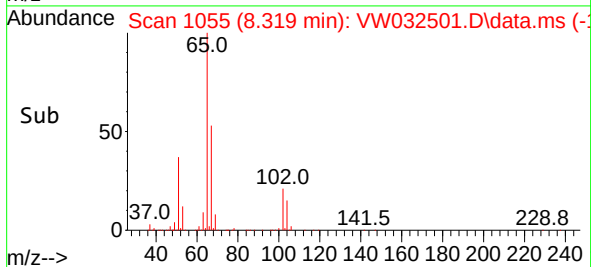
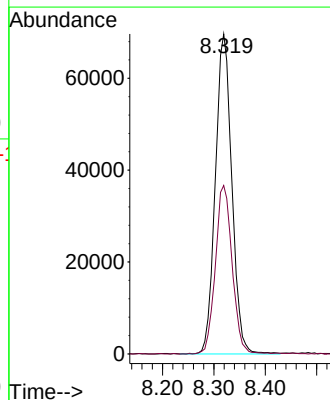
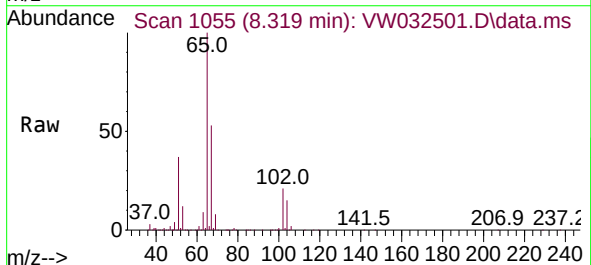
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0013

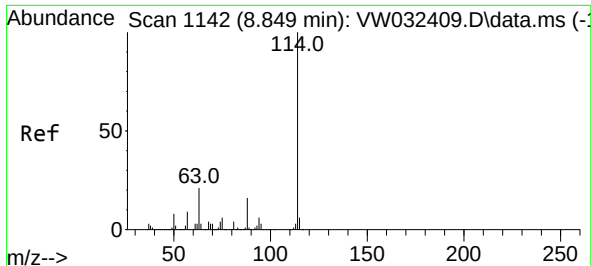
Tgt Ion:168 Resp: 214567
Ion Ratio Lower Upper
168 100
99 64.5 45.4 68.2



#33
1,2-Dichloroethane-d4
Concen: 56.096 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 65 Resp: 155178
Ion Ratio Lower Upper
65 100
67 53.4 0.0 106.8

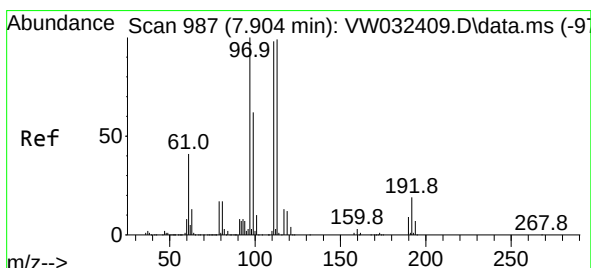
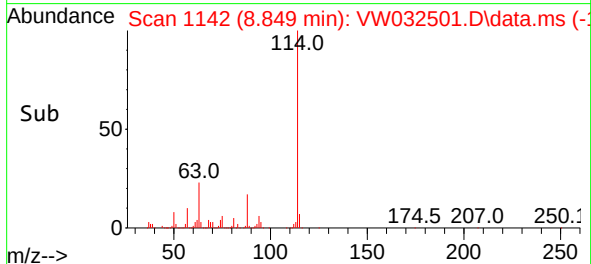
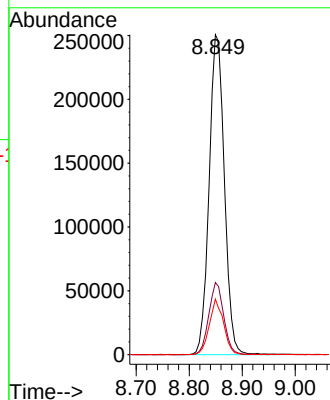
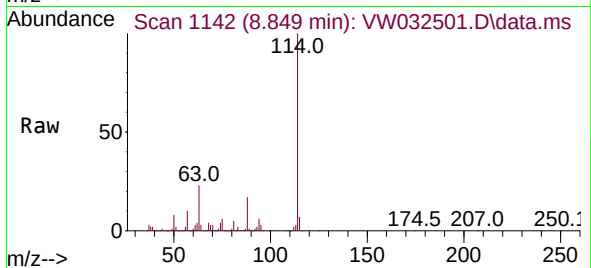




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.849 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

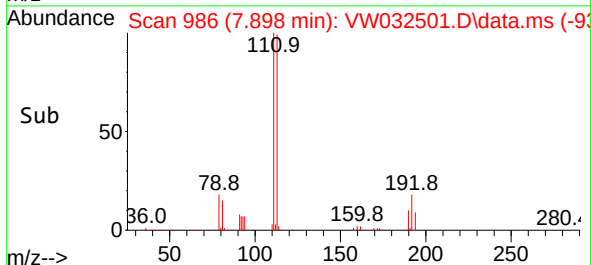
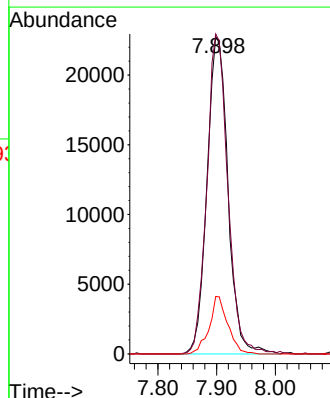
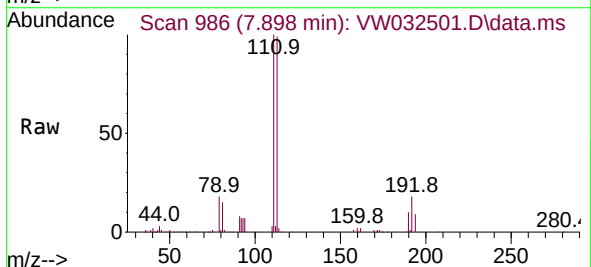
Instrument :
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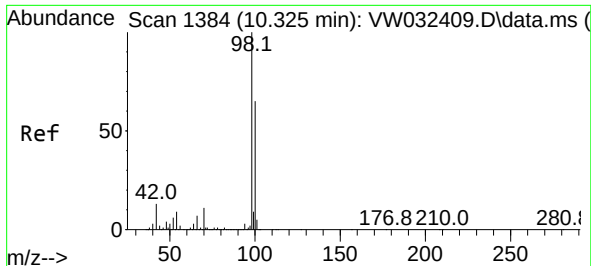
Tgt Ion:114 Resp: 499742
Ion Ratio Lower Upper
114 100
63 22.5 0.0 41.8
88 17.3 0.0 32.6



#35
Dibromofluoromethane
Concen: 18.868 ug/l
RT: 7.898 min Scan# 986
Delta R.T. -0.006 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion:113 Resp: 56454
Ion Ratio Lower Upper
113 100
111 101.0 83.1 124.7
192 16.0 13.4 20.2

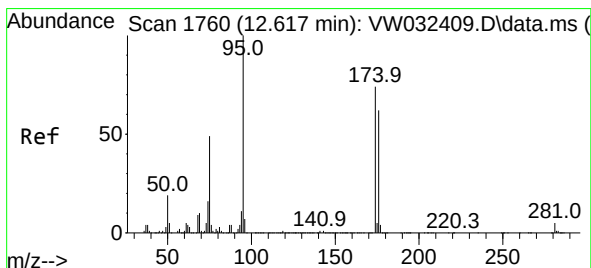
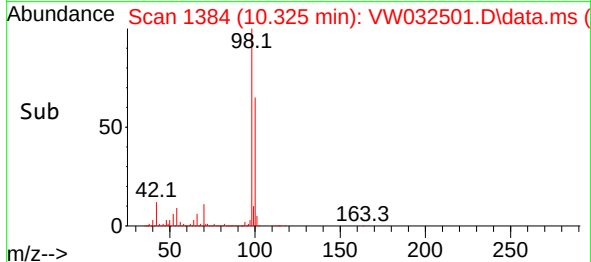
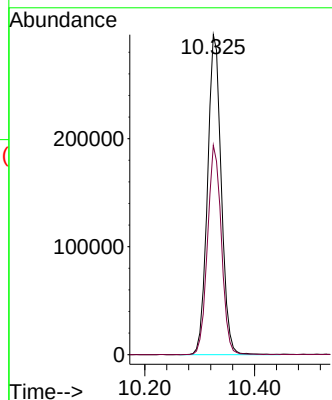
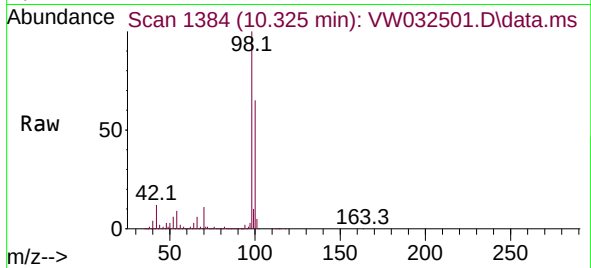




#50
Toluene-d8
Concen: 45.041 ug/l
RT: 10.325 min Scan# 1384
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

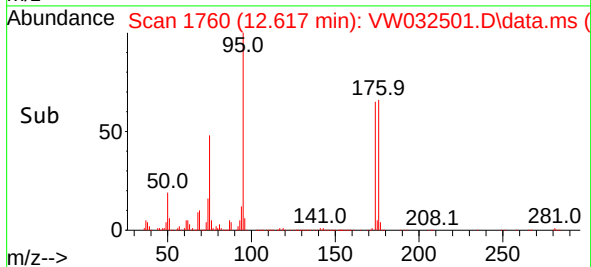
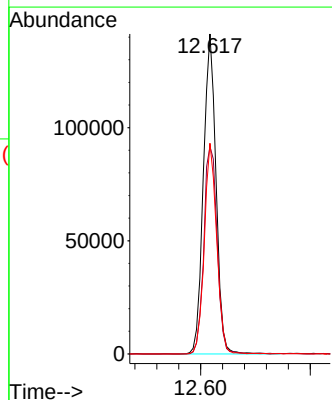
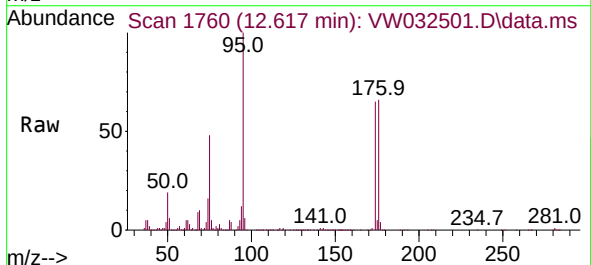
Instrument :
MSVOA_W
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ARS20-0013

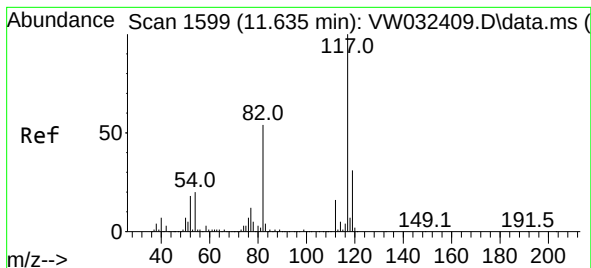
Tgt Ion: 98 Resp: 517013
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9



#62
4-Bromofluorobenzene
Concen: 52.227 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032501.D
Acq: 19 Nov 2025 14:42

Tgt Ion: 95 Resp: 226465
Ion Ratio Lower Upper
95 100
174 67.9 0.0 135.4
176 64.5 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 11

Delta R.T. -0.006 min

Lab File: VW032501.D

Acq: 19 Nov 2025 14:42

Instrument :

MSVOA_W

ClientSampleId :

ARS20-0013

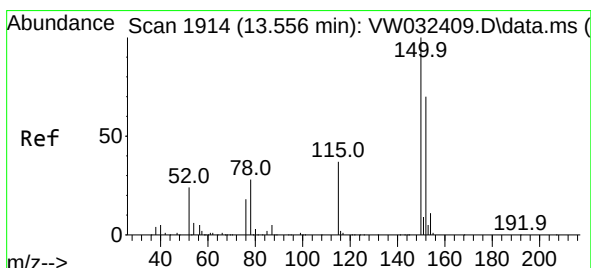
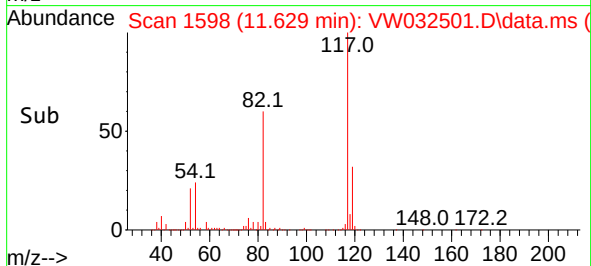
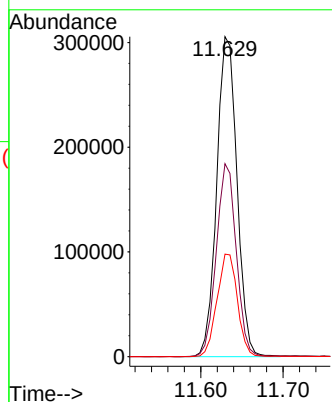
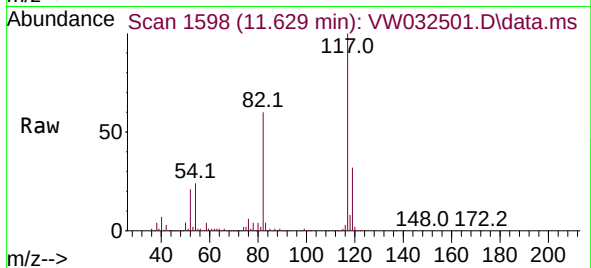
Tgt Ion:117 Resp: 523165

Ion Ratio Lower Upper

117 100

82 60.3 43.0 64.4

119 32.0 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032501.D

Acq: 19 Nov 2025 14:42

Tgt Ion:152 Resp: 255703

Ion Ratio Lower Upper

152 100

115 65.6 32.8 98.3

150 162.5 0.0 356.6

