

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW091825\
 Data File : VW032201.D
 Acq On : 18 Sep 2025 15:48
 Operator : SY/MD
 Sample : Q3134-01
 Misc : 5.00g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 LIVINGSTON-BIN-2-9-18-25

Quant Time: Sep 19 04:35:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W082625S.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 27 04:13:40 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	122166	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	285263	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	297494	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	148445	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	119371	68.324	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	136.640%
35) Dibromofluoromethane	7.904	113	102472	51.201	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	102.400%
50) Toluene-d8	10.331	98	337769	48.075	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	96.160%
62) 4-Bromofluorobenzene	12.617	95	131743	50.709	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	101.420%

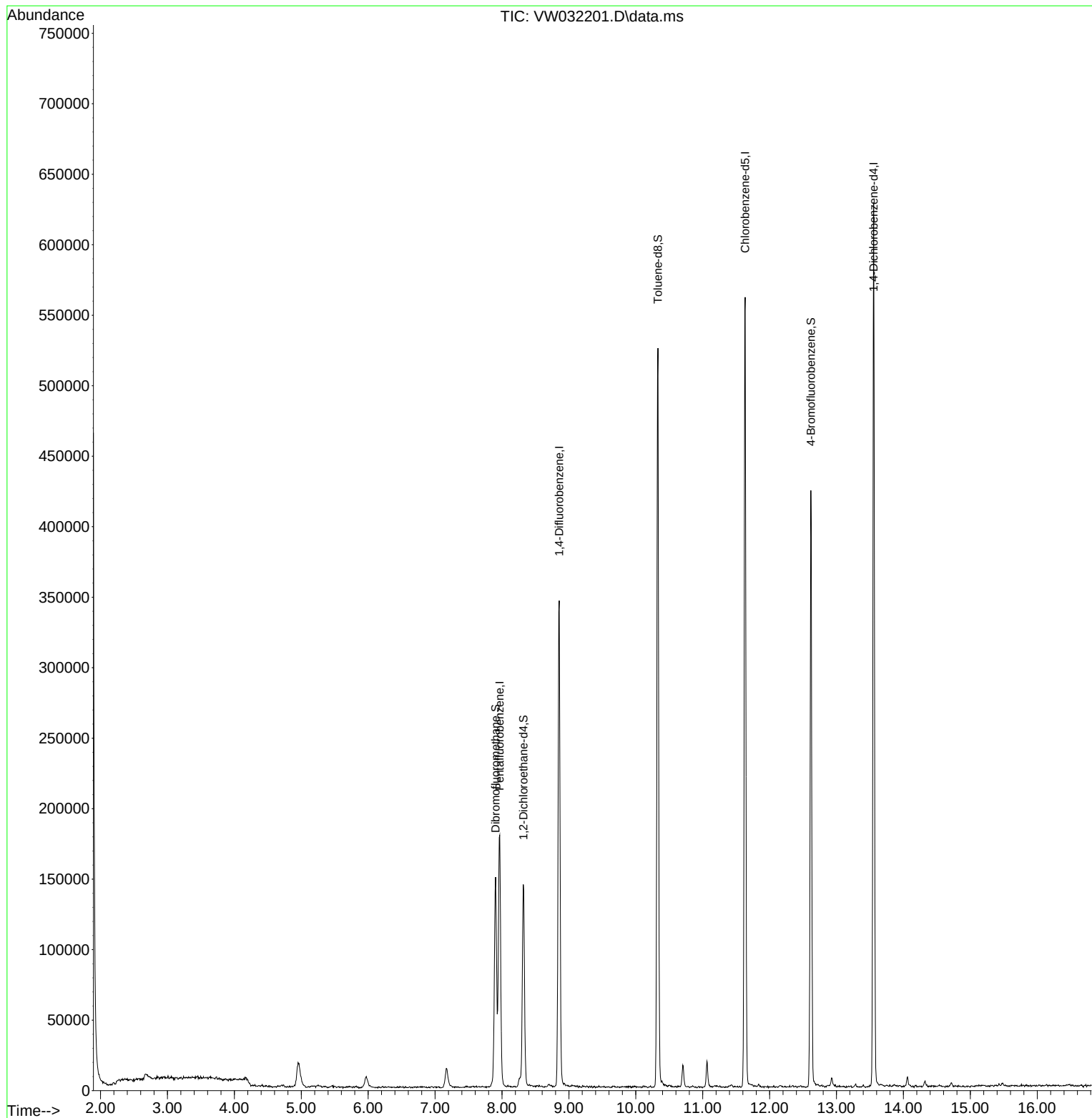
Target Compounds	Qvalue

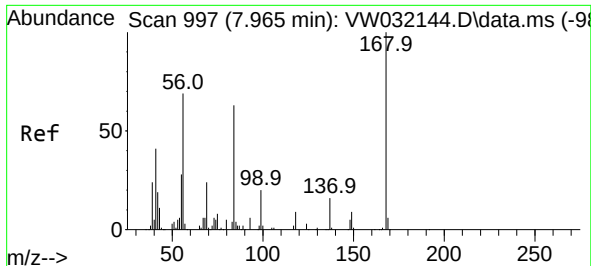
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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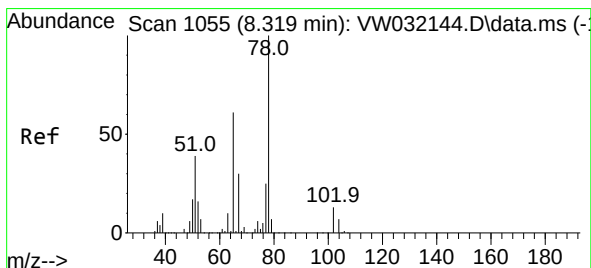
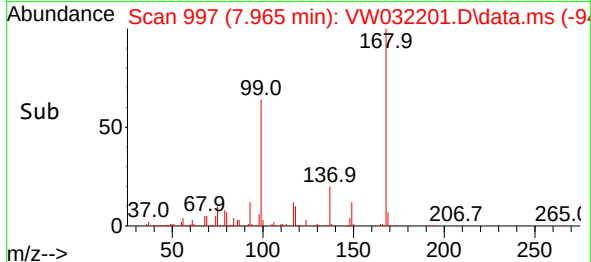
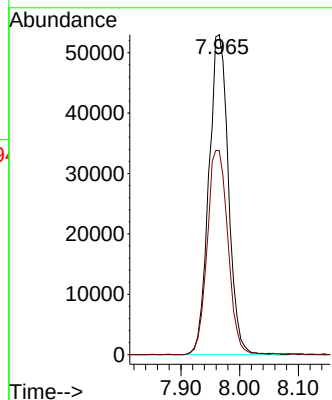
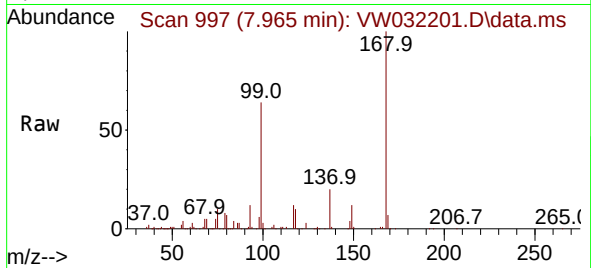




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.965 min Scan# 997
Delta R.T. 0.000 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

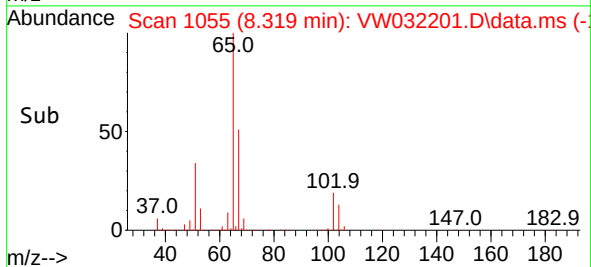
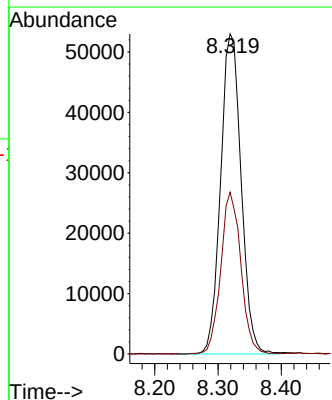
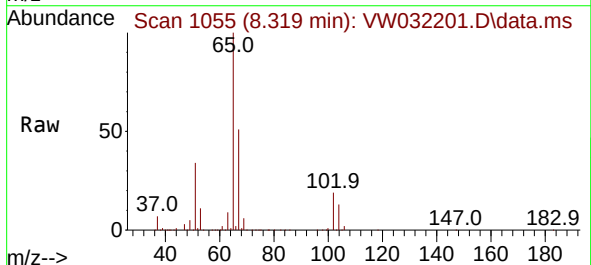
Instrument :
MSVOA_W
ClientSampleId :
LIVINGSTON-BIN-2-9-18-25

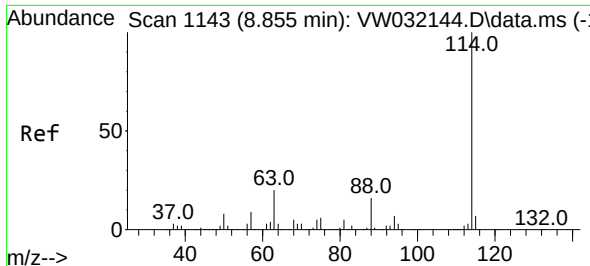
Tgt Ion:168 Resp: 122166
Ion Ratio Lower Upper
168 100
99 63.8 49.3 73.9



#33
1,2-Dichloroethane-d4
Concen: 68.324 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. -0.000 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

Tgt Ion: 65 Resp: 119371
Ion Ratio Lower Upper
65 100
67 49.5 0.0 99.6

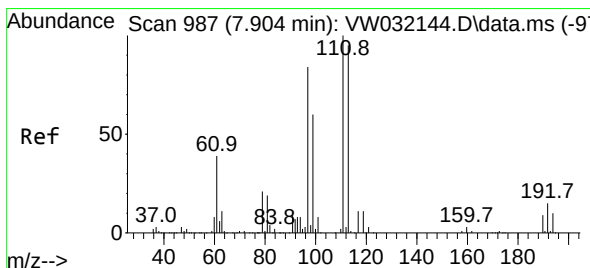
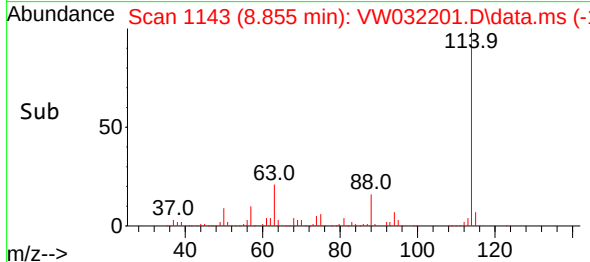
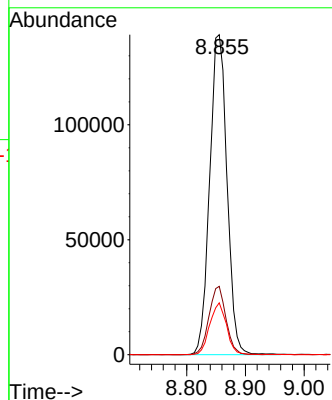
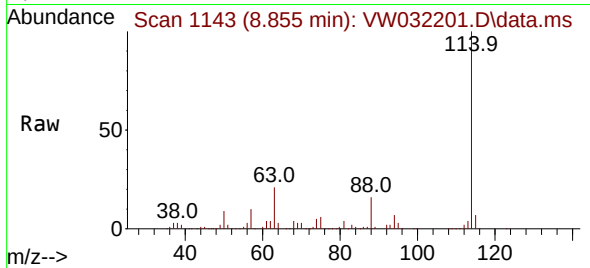




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.855 min Scan# 1143
Delta R.T. -0.000 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

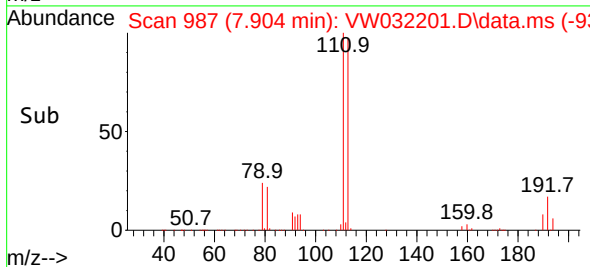
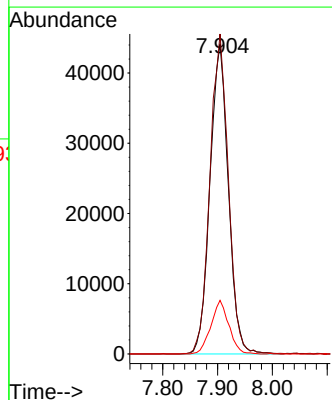
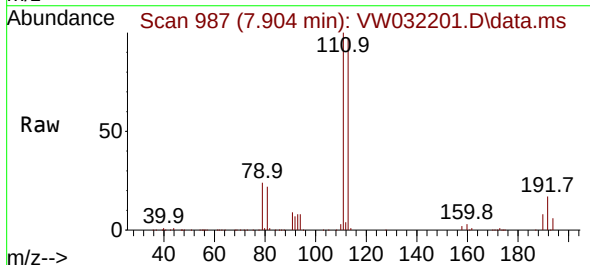
Instrument :
MSVOA_W
ClientSampleId :
LIVINGSTON-BIN-2-9-18-25

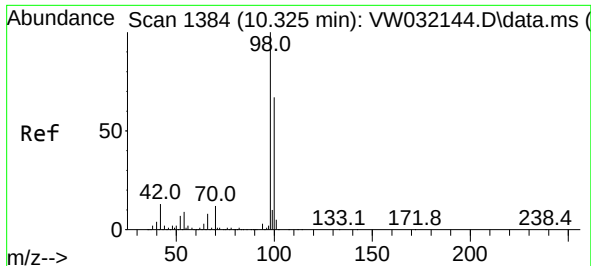
Tgt Ion:114 Resp: 285263
Ion Ratio Lower Upper
114 100
63 21.4 0.0 40.4
88 16.2 0.0 32.0



#35
Dibromofluoromethane
Concen: 51.201 ug/l
RT: 7.904 min Scan# 987
Delta R.T. -0.000 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

Tgt Ion:113 Resp: 102472
Ion Ratio Lower Upper
113 100
111 103.6 83.9 125.9
192 16.9 14.6 21.8

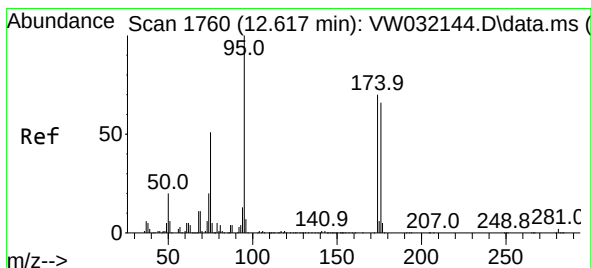
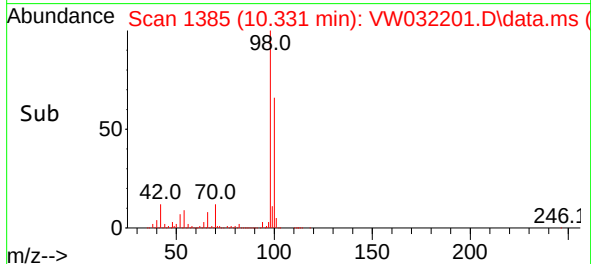
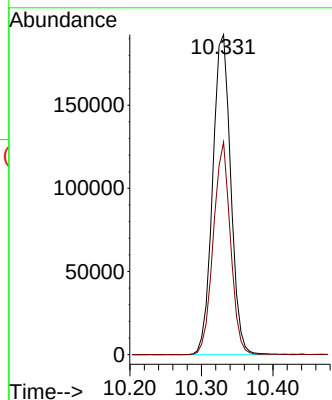
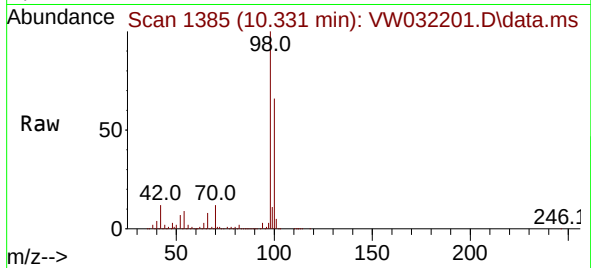




#50
Toluene-d8
Concen: 48.075 ug/l
RT: 10.331 min Scan# 1385
Delta R.T. 0.006 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

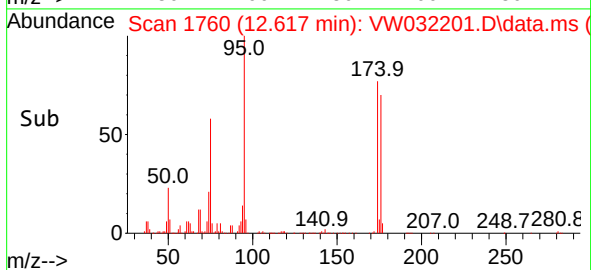
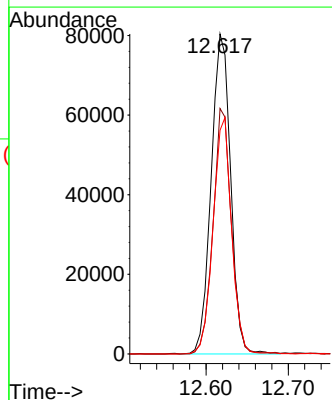
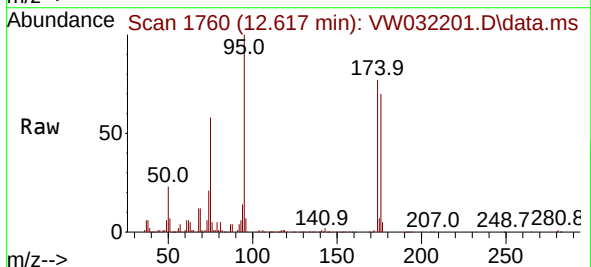
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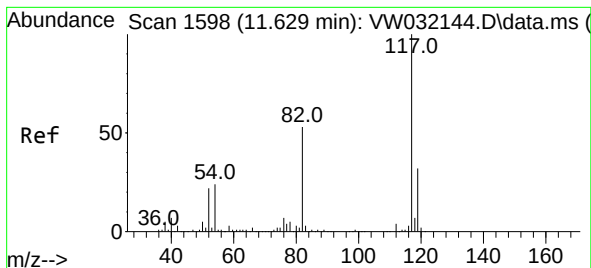
Tgt Ion: 98 Resp: 337769
Ion Ratio Lower Upper
98 100
100 63.2 51.4 77.2



#62
4-Bromofluorobenzene
Concen: 50.709 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.000 min
Lab File: VW032201.D
Acq: 18 Sep 2025 15:48

Tgt Ion: 95 Resp: 131743
Ion Ratio Lower Upper
95 100
174 73.0 0.0 145.6
176 70.5 0.0 140.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032201.D

Acq: 18 Sep 2025 15:48

Instrument :

MSVOA_W

ClientSampleId :

LIVINGSTON-BIN-2-9-18-25

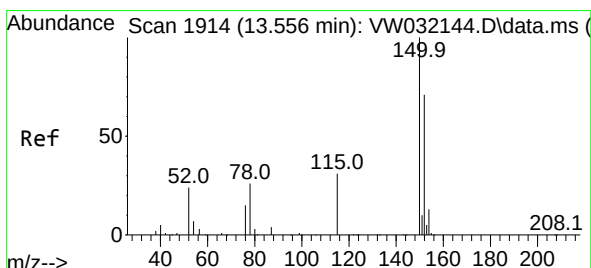
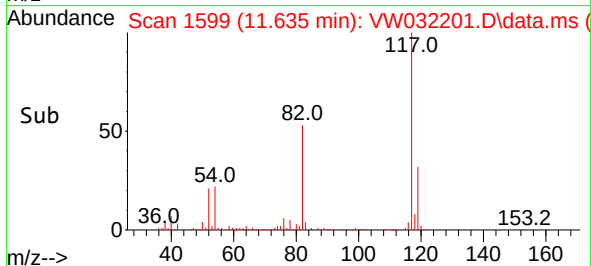
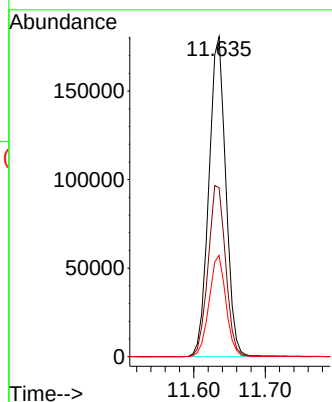
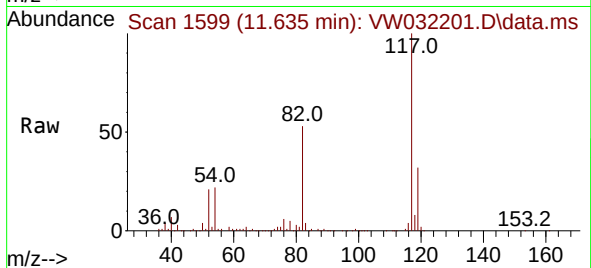
Tgt Ion:117 Resp: 297494

Ion Ratio Lower Upper

117 100

82 52.8 42.7 64.1

119 31.7 25.2 37.8



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. -0.000 min

Lab File: VW032201.D

Acq: 18 Sep 2025 15:48

Tgt Ion:152 Resp: 148445

Ion Ratio Lower Upper

152 100

115 61.5 31.8 95.4

150 160.2 0.0 343.0

