

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080525\
 Data File : VW032015.D
 Acq On : 05 Aug 2025 16:04
 Operator : SY/MD
 Sample : Q2774-11
 Misc : 4.77g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 224

Quant Time: Aug 06 03:56:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W072225S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 23 08:18:46 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.965	168	179598	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.856	114	385248	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.636	117	373836	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	186564	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	139325	51.282	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	102.560%
35) Dibromofluoromethane	7.904	113	123113	47.029	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	94.060%
50) Toluene-d8	10.325	98	473338	47.775	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	95.560%
62) 4-Bromofluorobenzene	12.617	95	181623	47.741	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	95.480%

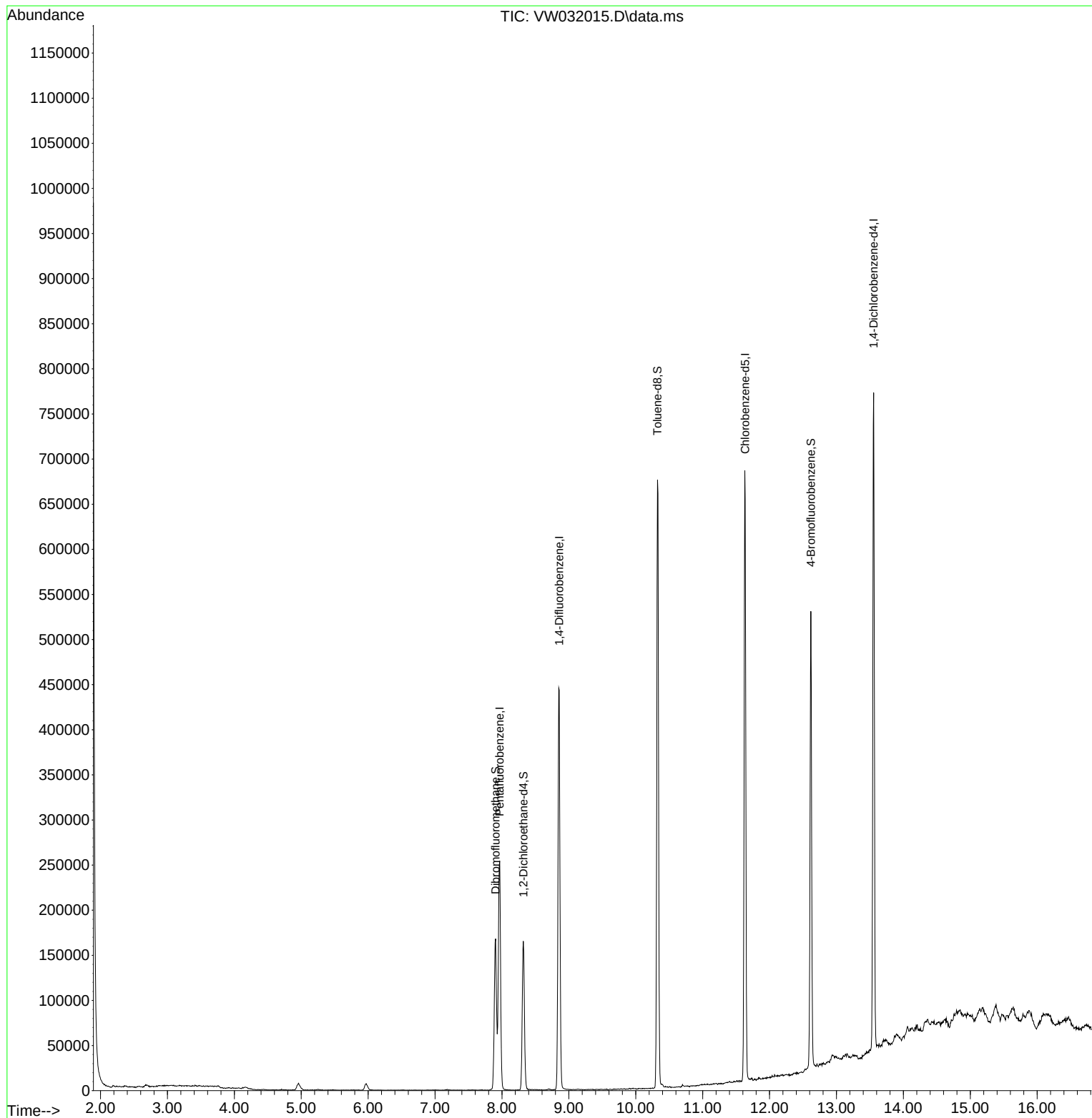
Target Compounds	Qvalue

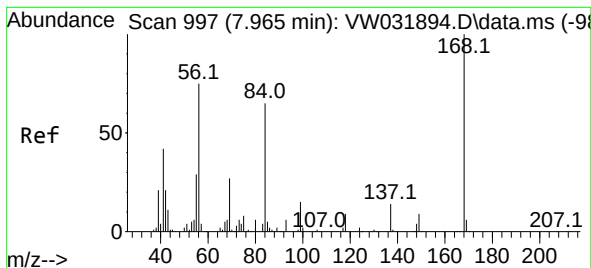
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 99

Delta R.T. 0.000 min

Lab File: VW032015.D

Acq: 05 Aug 2025 16:04

Instrument :

MSVOA_W

ClientSampleId :

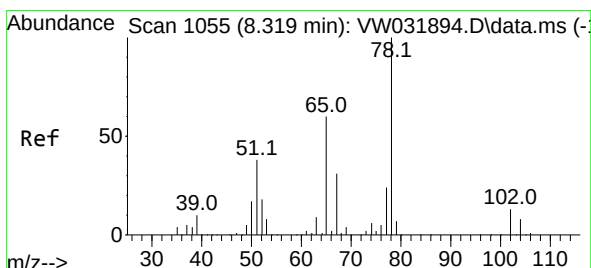
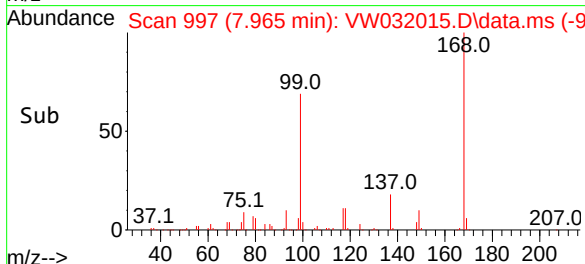
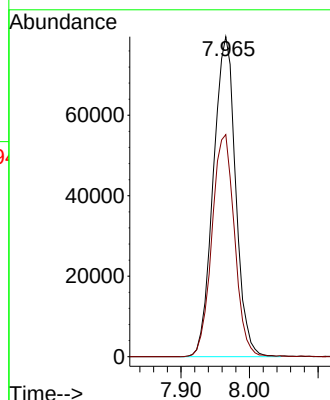
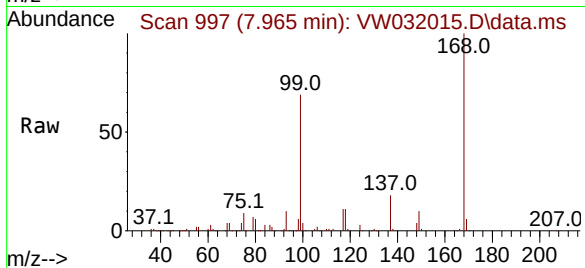
224

Tgt Ion:168 Resp: 179598

Ion Ratio Lower Upper

168 100

99 69.4 48.2 72.2



#33

1,2-Dichloroethane-d4

Concen: 51.282 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032015.D

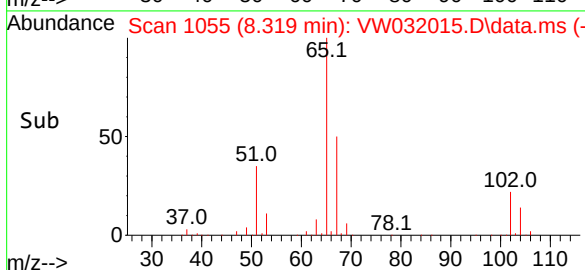
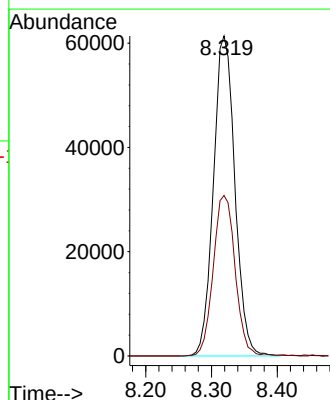
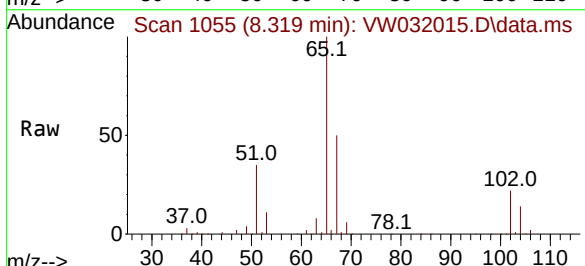
Acq: 05 Aug 2025 16:04

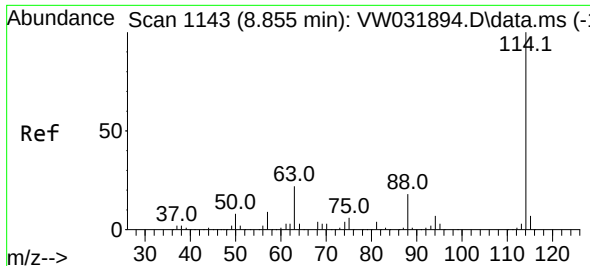
Tgt Ion: 65 Resp: 139325

Ion Ratio Lower Upper

65 100

67 51.4 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VW032015.D

Acq: 05 Aug 2025 16:04

Instrument :

MSVOA_W

ClientSampleId :

224

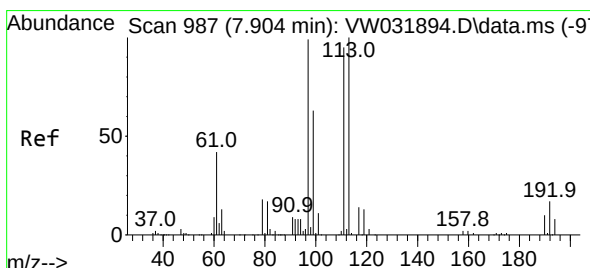
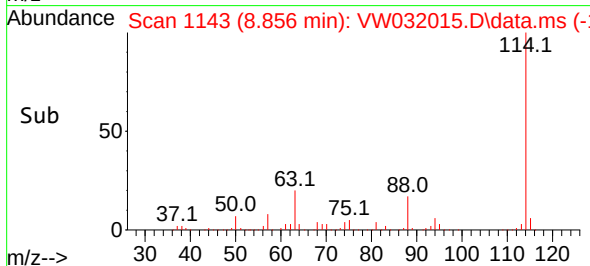
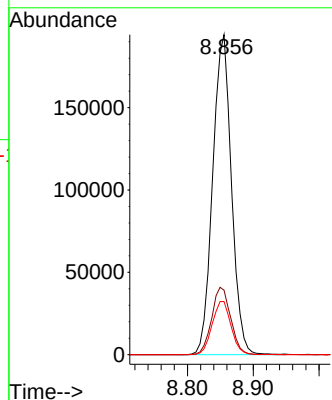
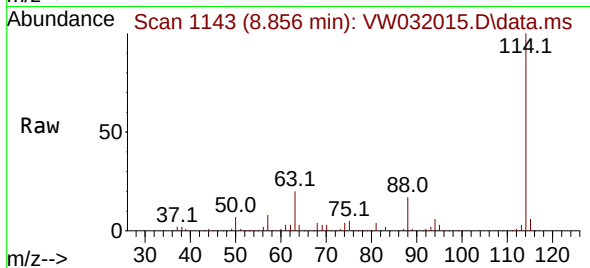
Tgt Ion:114 Resp: 385248

Ion Ratio Lower Upper

114 100

63 20.2 0.0 44.2

88 16.6 0.0 35.6



#35

Dibromofluoromethane

Concen: 47.029 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW032015.D

Acq: 05 Aug 2025 16:04

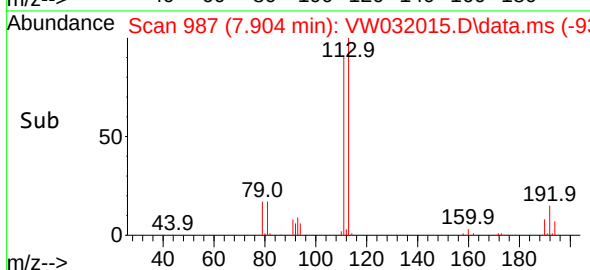
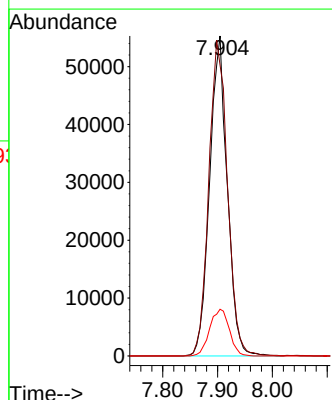
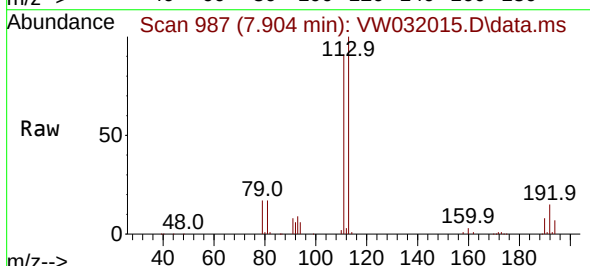
Tgt Ion:113 Resp: 123113

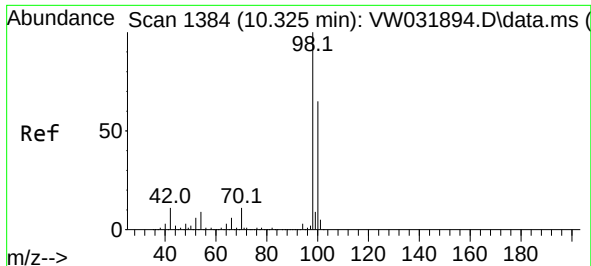
Ion Ratio Lower Upper

113 100

111 104.8 79.9 119.9

192 16.3 12.6 19.0

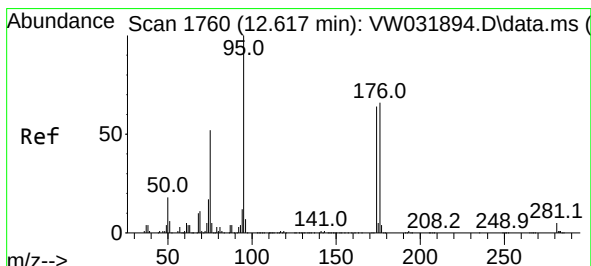
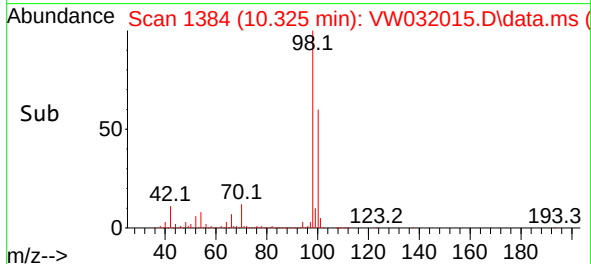
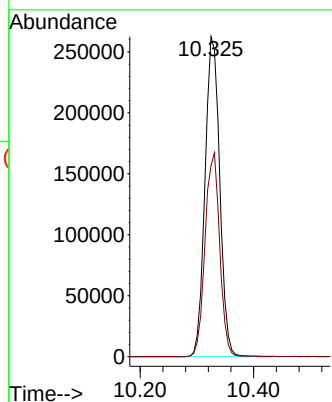
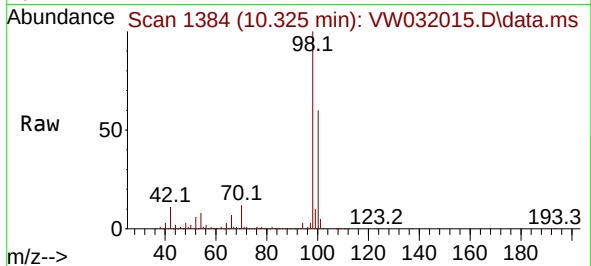




#50
Toluene-d8
Concen: 47.775 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032015.D
Acq: 05 Aug 2025 16:04

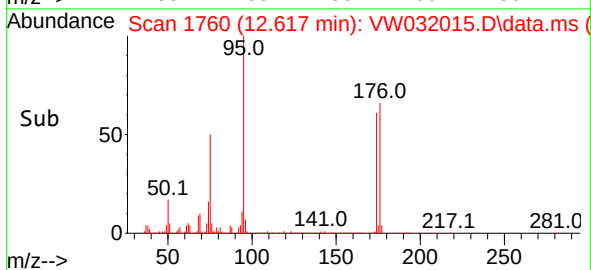
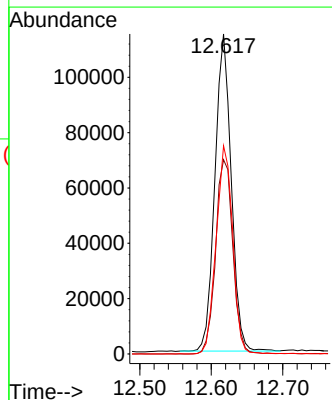
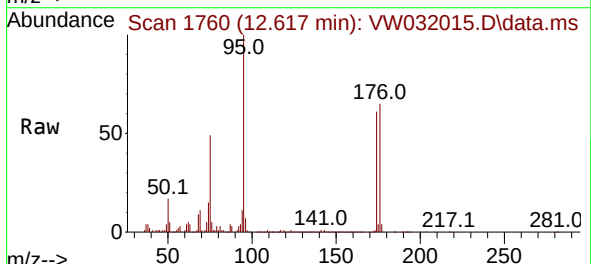
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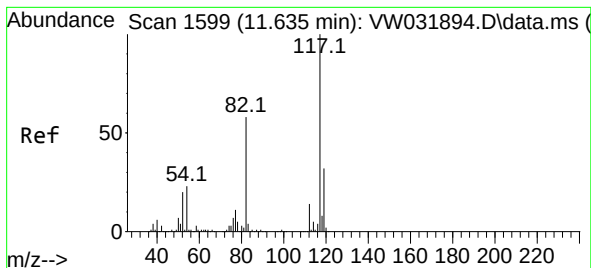
Tgt Ion: 98 Resp: 473338
Ion Ratio Lower Upper
98 100
100 63.3 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 47.741 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032015.D
Acq: 05 Aug 2025 16:04

Tgt Ion: 95 Resp: 181623
Ion Ratio Lower Upper
95 100
174 64.8 0.0 129.8
176 66.6 0.0 130.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.636 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032015.D

Acq: 05 Aug 2025 16:04

Instrument :

MSVOA_W

ClientSampleId :

224

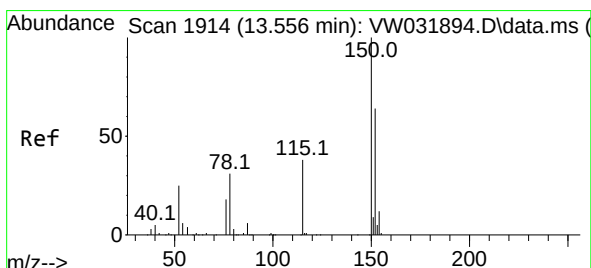
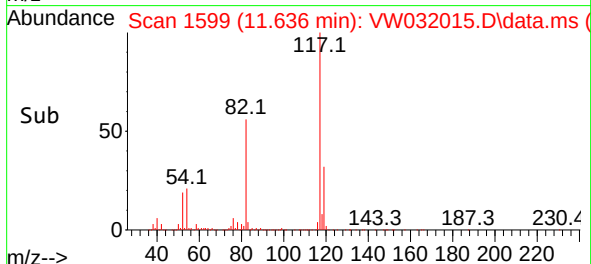
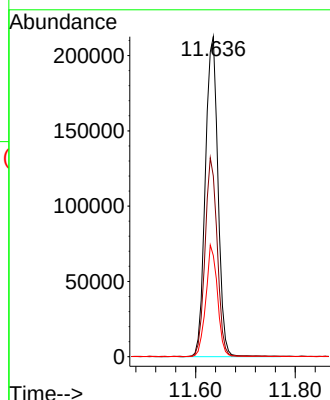
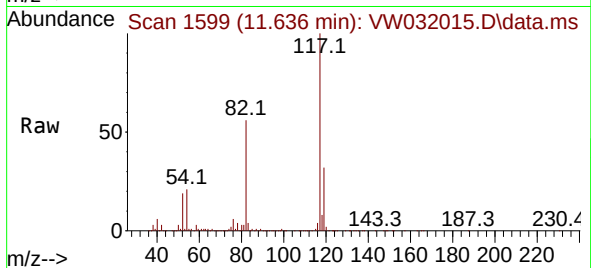
Tgt Ion:117 Resp: 373836

Ion Ratio Lower Upper

117 100

82 56.3 46.5 69.7

119 31.6 25.8 38.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032015.D

Acq: 05 Aug 2025 16:04

Tgt Ion:152 Resp: 186564

Ion Ratio Lower Upper

152 100

115 64.6 33.4 100.1

150 153.8 0.0 352.2

