

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW080125\
 Data File : VW031979.D
 Acq On : 01 Aug 2025 12:40
 Operator : SY/MD
 Sample : Q2747-03
 Misc : 3.83g/5mL/MSVOA_W/SOIL/A
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 OU4-TS-GRILLO-OG3-073125

Quant Time: Aug 01 23:11:48 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	7.959	168	177359	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	372534	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	301695	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.550	152	108718	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	128257	47.804	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	95.600%
35) Dibromofluoromethane	7.904	113	120022	47.413	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	94.820%
50) Toluene-d8	10.325	98	417902	43.620	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	87.240%
62) 4-Bromofluorobenzene	12.617	95	126498	34.386	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	68.780%

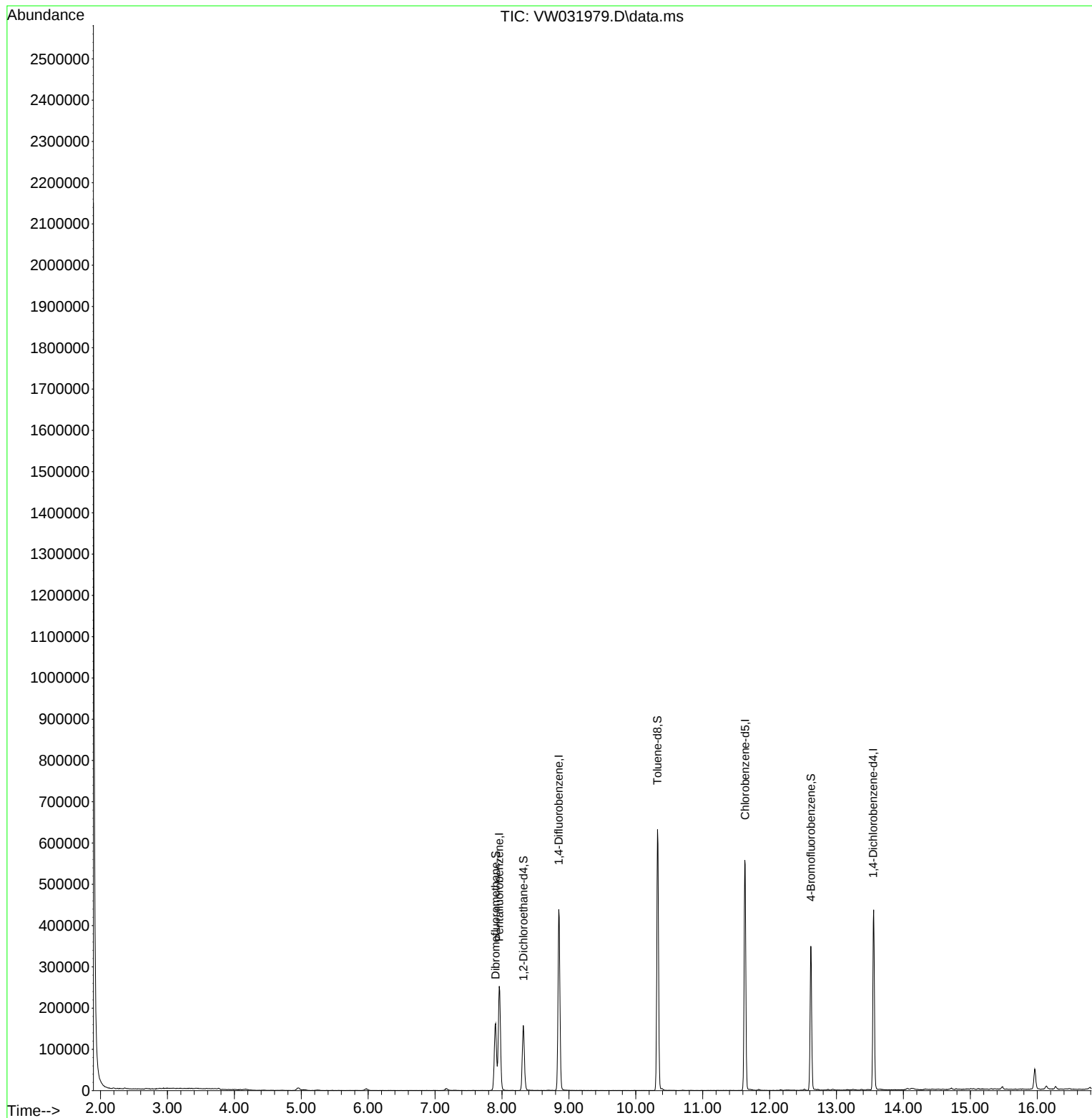
Target Compounds	Qvalue

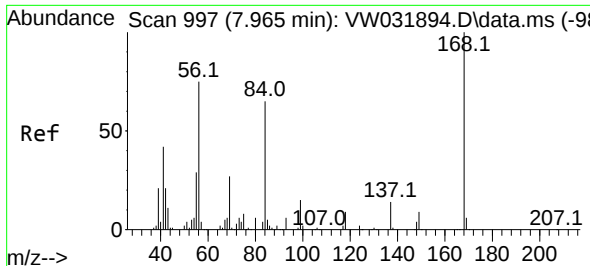
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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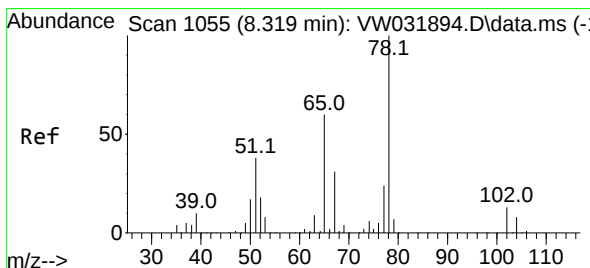
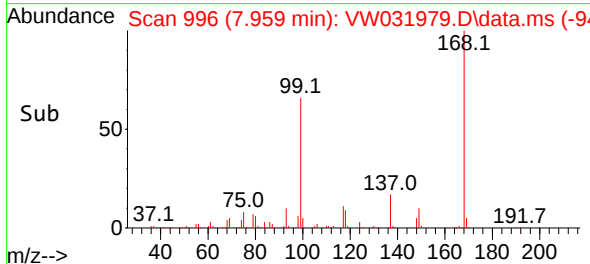
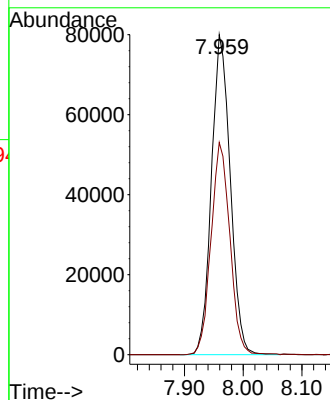
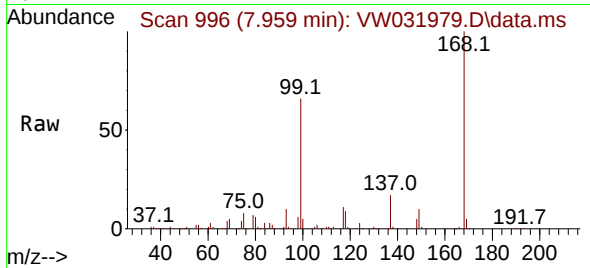




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

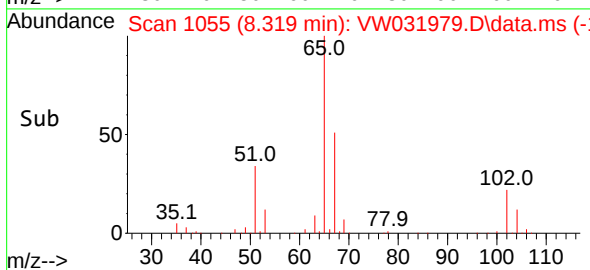
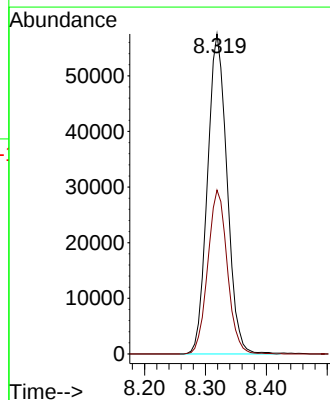
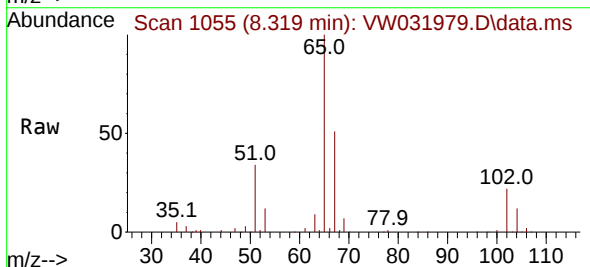
Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-GRILLO-OG3-073125

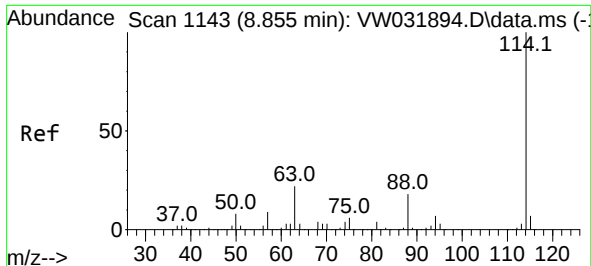
Tgt Ion:168 Resp: 177359
Ion Ratio Lower Upper
168 100
99 66.3 48.2 72.2



#33
1,2-Dichloroethane-d4
Concen: 47.804 ug/l
RT: 8.319 min Scan# 1055
Delta R.T. 0.000 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

Tgt Ion: 65 Resp: 128257
Ion Ratio Lower Upper
65 100
67 51.1 0.0 101.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.849 min Scan# 1143

Delta R.T. -0.006 min

Lab File: VW031979.D

Acq: 01 Aug 2025 12:40

Instrument :

MSVOA_W

ClientSampleId :

OU4-TS-GRILLO-OG3-073125

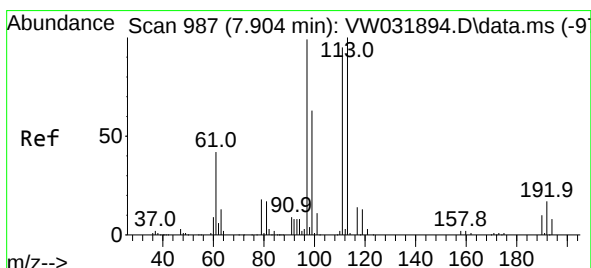
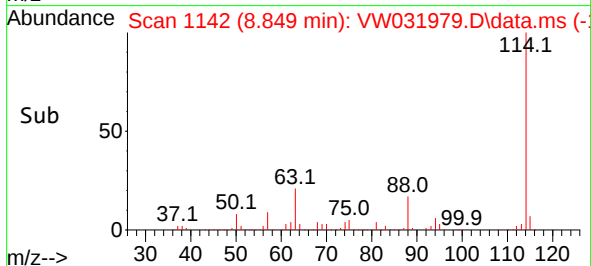
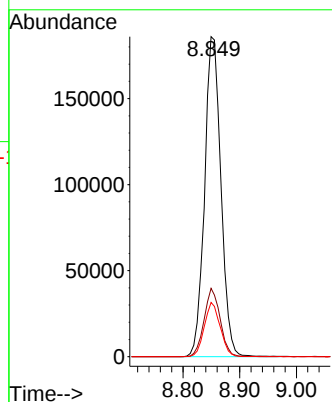
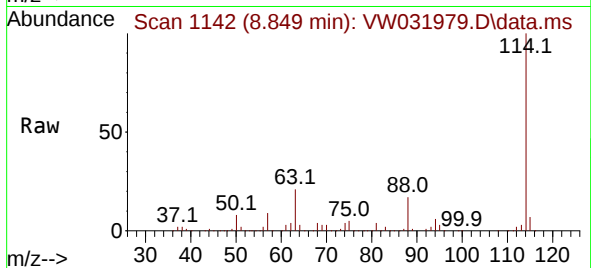
Tgt Ion:114 Resp: 372534

Ion Ratio Lower Upper

114 100

63 21.4 0.0 44.2

88 17.0 0.0 35.6



#35

Dibromofluoromethane

Concen: 47.413 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW031979.D

Acq: 01 Aug 2025 12:40

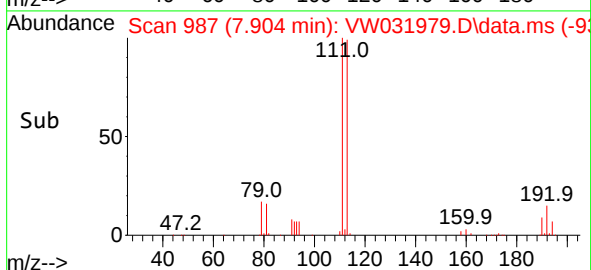
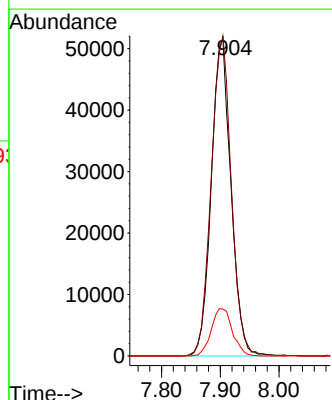
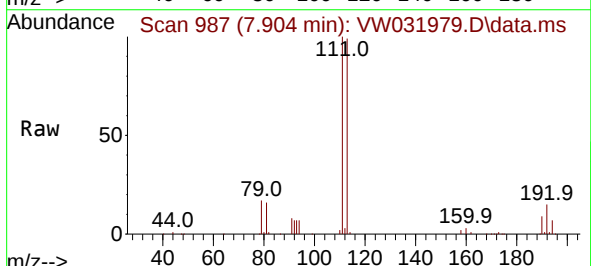
Tgt Ion:113 Resp: 120022

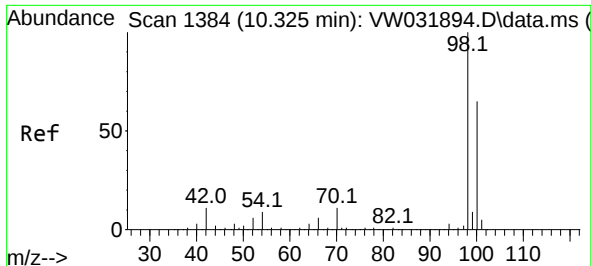
Ion Ratio Lower Upper

113 100

111 102.9 79.9 119.9

192 16.0 12.6 19.0

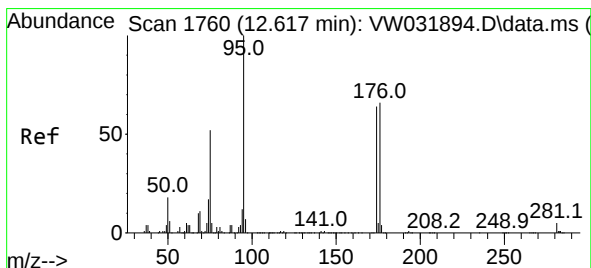
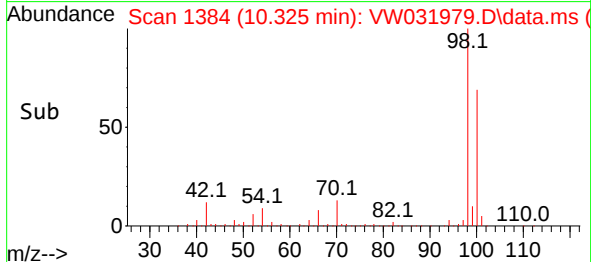
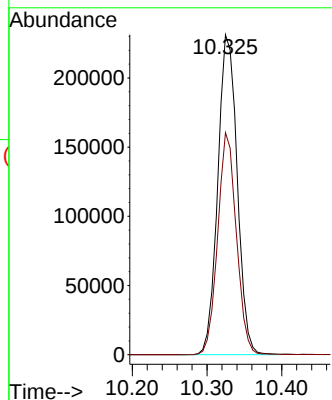
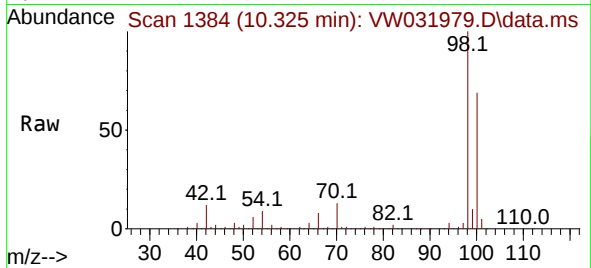




#50
Toluene-d8
Concen: 43.620 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

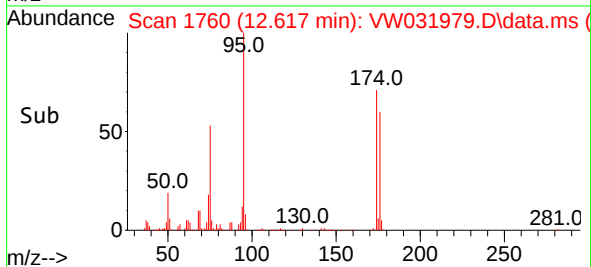
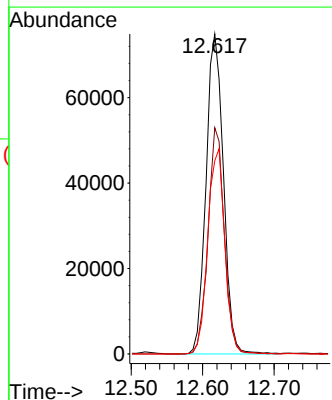
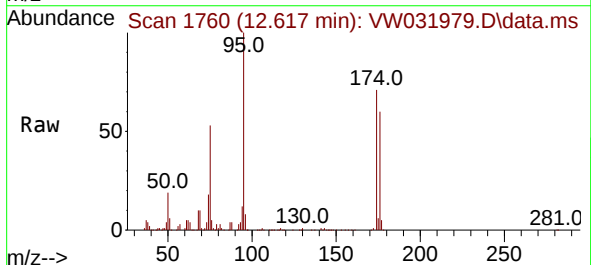
Instrument :
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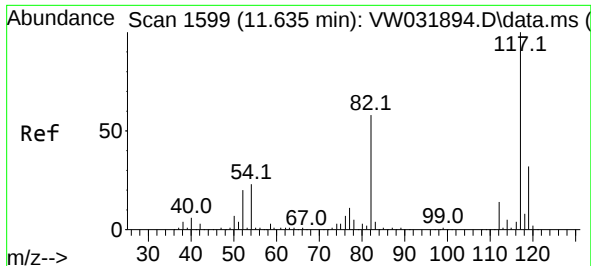
Tgt Ion: 98 Resp: 417902
Ion Ratio Lower Upper
98 100
100 66.7 51.7 77.5



#62
4-Bromofluorobenzene
Concen: 34.386 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

Tgt Ion: 95 Resp: 126498
Ion Ratio Lower Upper
95 100
174 66.0 0.0 129.8
176 63.1 0.0 130.4

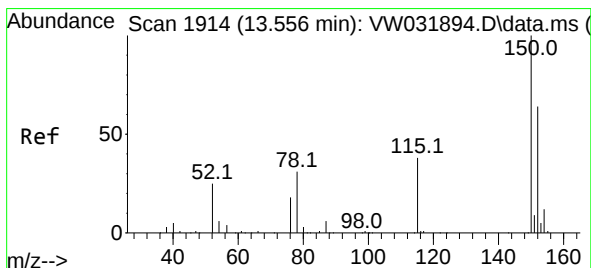
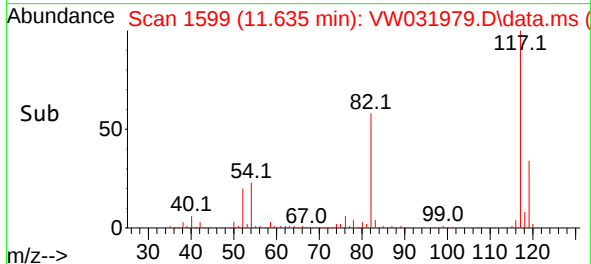
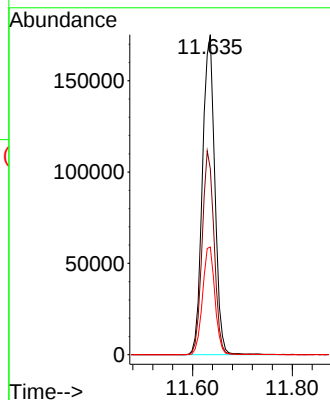
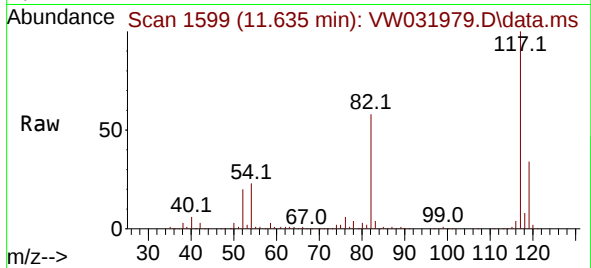




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

Instrument :
MSVOA_W
ClientSampleId :
OU4-TS-GRILLO-OG3-073125

Tgt Ion:117 Resp: 301695
Ion Ratio Lower Upper
117 100
82 58.2 46.5 69.7
119 33.6 25.8 38.6



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.550 min Scan# 1913
Delta R.T. -0.006 min
Lab File: VW031979.D
Acq: 01 Aug 2025 12:40

Tgt Ion:152 Resp: 108718
Ion Ratio Lower Upper
152 100
115 67.0 33.4 100.1
150 162.6 0.0 352.2

