

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088517.D
 Acq On : 16 Dec 2025 11:03
 Operator : JC\MD
 Sample : VN1216WBL01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN1216WBL01

Quant Time: Dec 17 01:36:19 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.200	168	274477	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	607567	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	547726	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	244367	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.553	65	255888	49.489	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	98.980%
35) Dibromofluoromethane	8.141	113	196123	46.580	ug/l	-0.01
Spiked Amount	50.000	Range	75 - 124	Recovery	=	93.160%
50) Toluene-d8	10.541	98	688544	43.951	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	87.900%
62) 4-Bromofluorobenzene	12.824	95	227342	42.294	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	84.580%

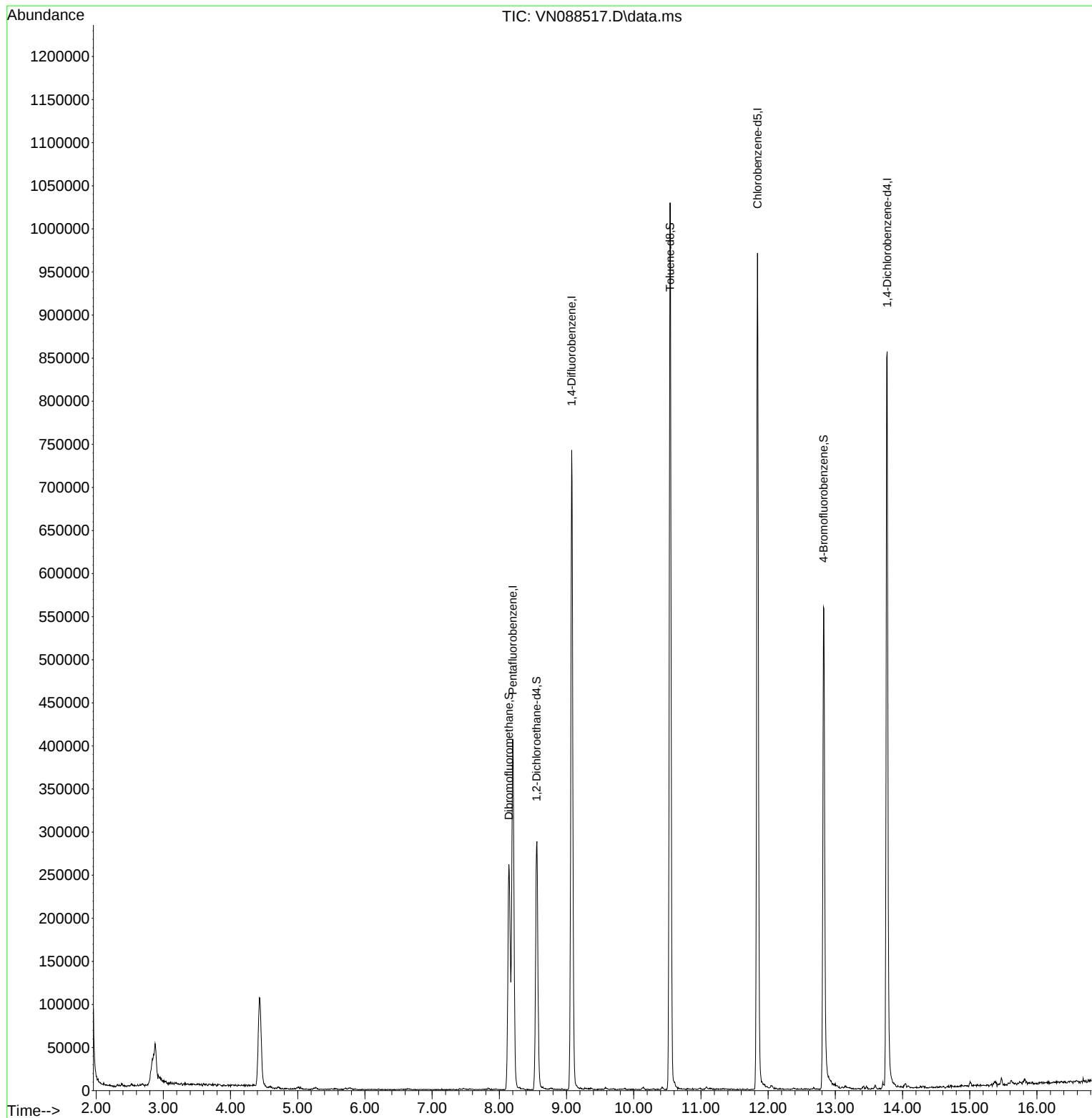
Target Compounds	Qvalue

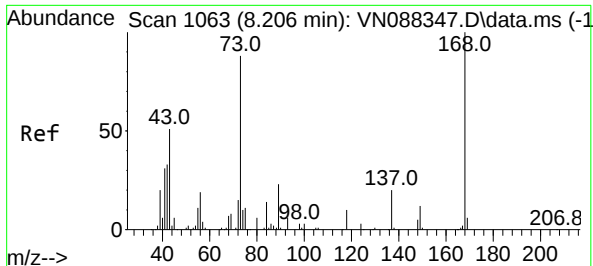
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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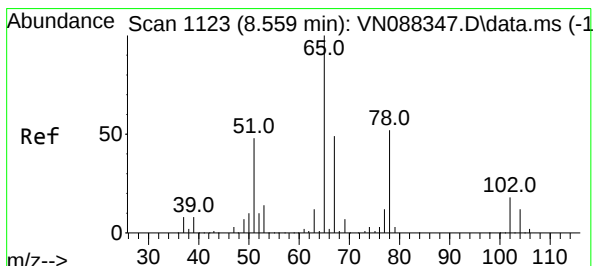
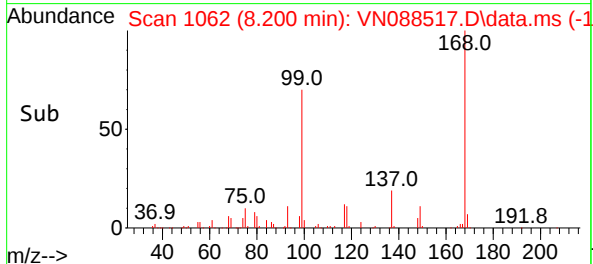
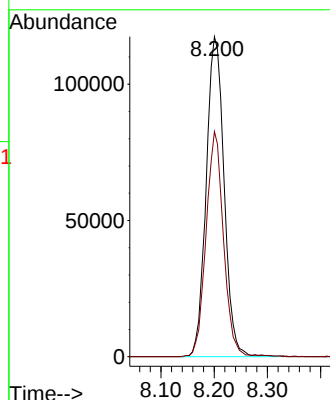
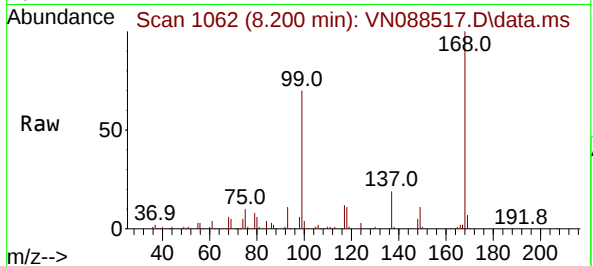




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.200 min Scan# 110
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

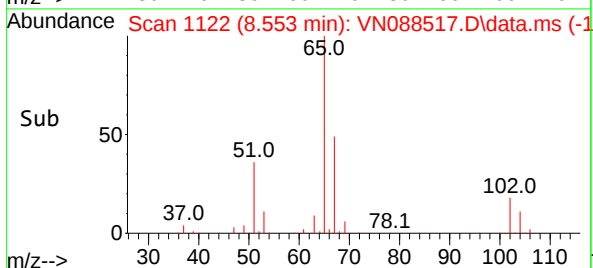
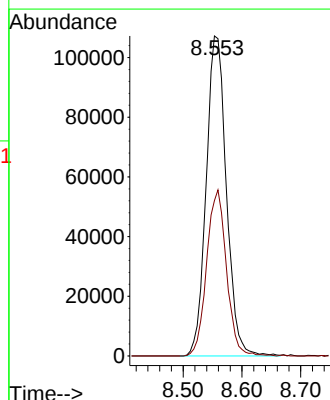
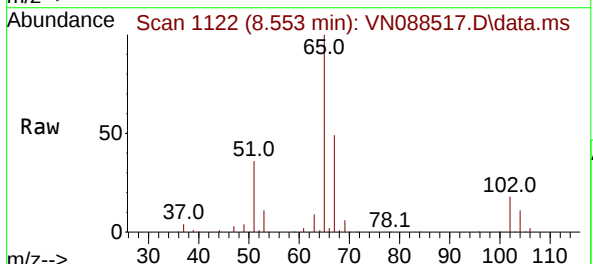
Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

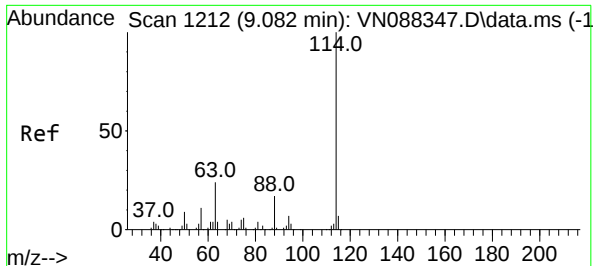
Tgt Ion:168 Resp: 274477
Ion Ratio Lower Upper
168 100
99 70.3 57.1 85.7



#33
1,2-Dichloroethane-d4
Concen: 49.489 ug/l
RT: 8.553 min Scan# 1122
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 65 Resp: 255888
Ion Ratio Lower Upper
65 100
67 50.8 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1

Delta R.T. -0.006 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

Instrument :

MSVOA_N

ClientSampleId :

VN1216WBL01

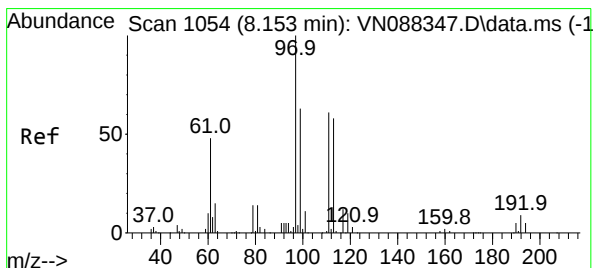
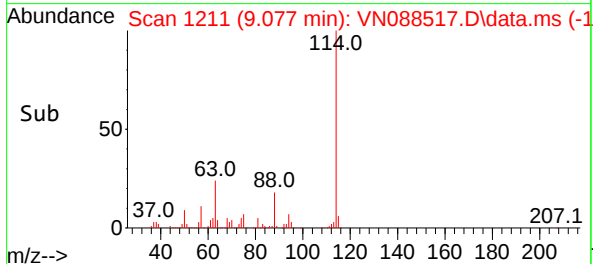
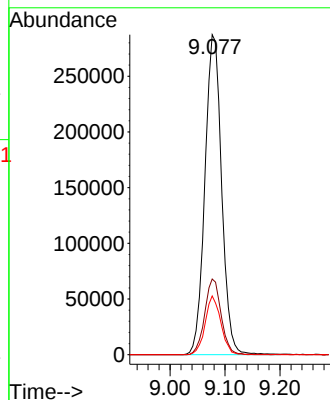
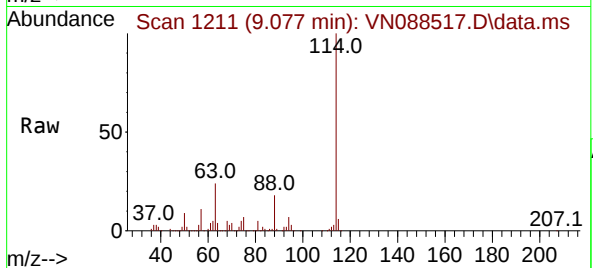
Tgt Ion:114 Resp: 607567

Ion Ratio Lower Upper

114 100

63 23.6 0.0 49.0

88 18.4 0.0 34.0



#35

Dibromofluoromethane

Concen: 46.580 ug/l

RT: 8.141 min Scan# 1052

Delta R.T. -0.012 min

Lab File: VN088517.D

Acq: 16 Dec 2025 11:03

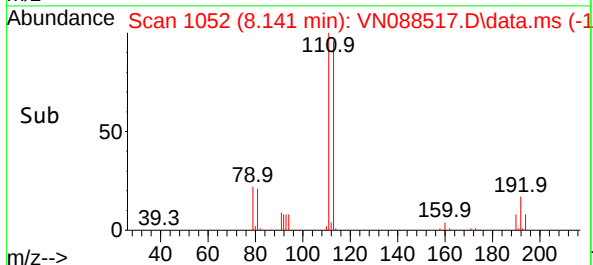
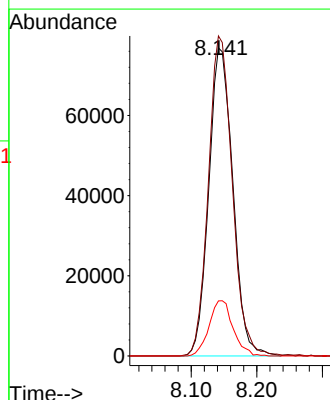
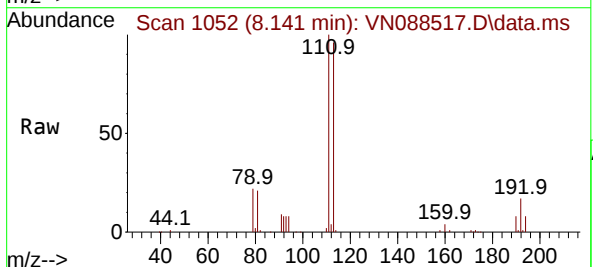
Tgt Ion:113 Resp: 196123

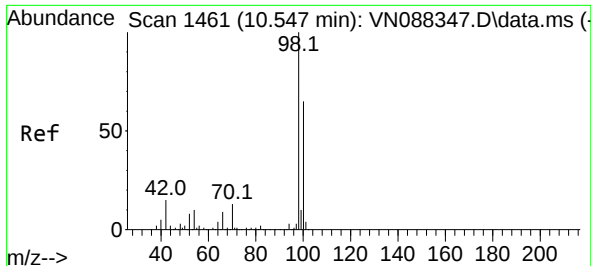
Ion Ratio Lower Upper

113 100

111 103.0 82.5 123.7

192 17.9 12.8 19.2

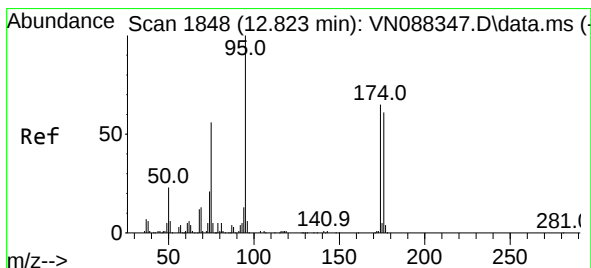
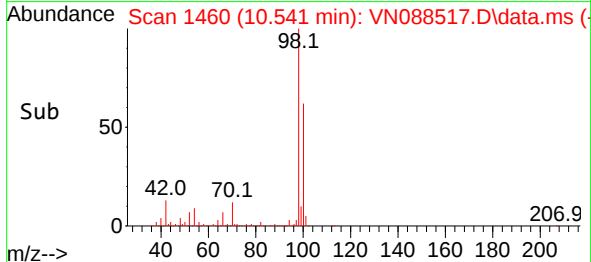
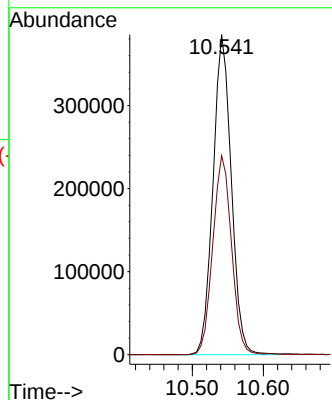
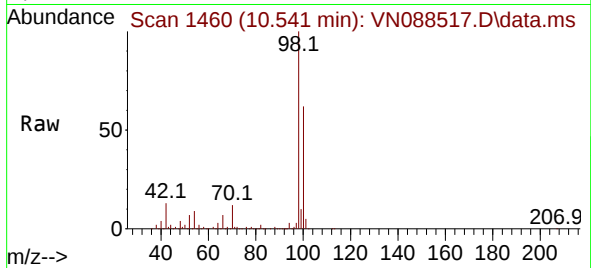




#50
Toluene-d8
Concen: 43.951 ug/l
RT: 10.541 min Scan# 1461
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

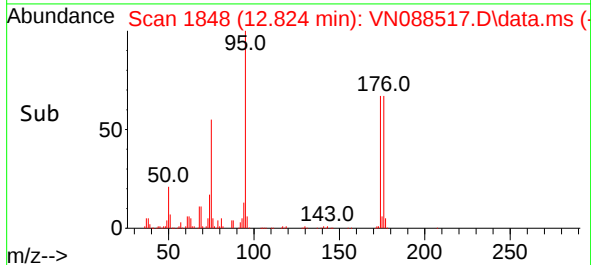
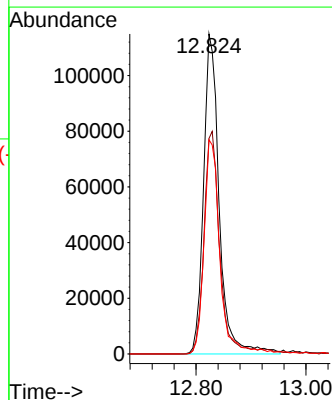
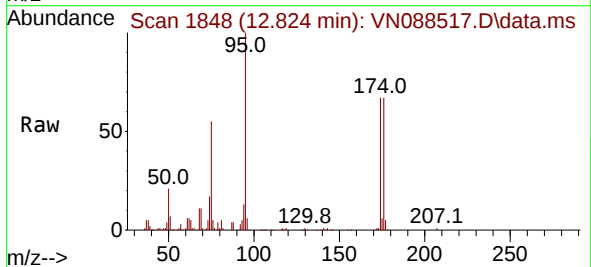
Instrument :
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VN1216WBL01

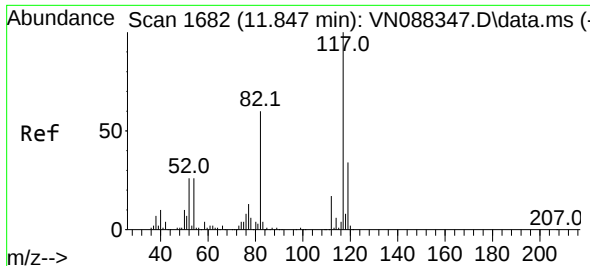
Tgt Ion: 98 Resp: 688544
Ion Ratio Lower Upper
98 100
100 63.4 52.2 78.2



#62
4-Bromofluorobenzene
Concen: 42.294 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion: 95 Resp: 227342
Ion Ratio Lower Upper
95 100
174 70.8 0.0 139.0
176 67.8 0.0 132.4

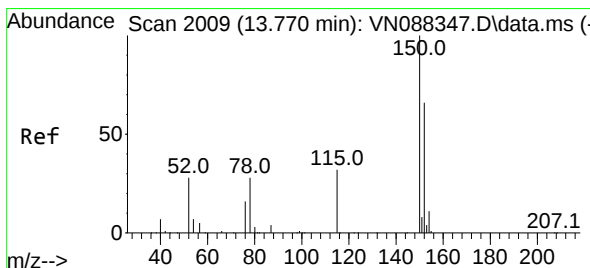
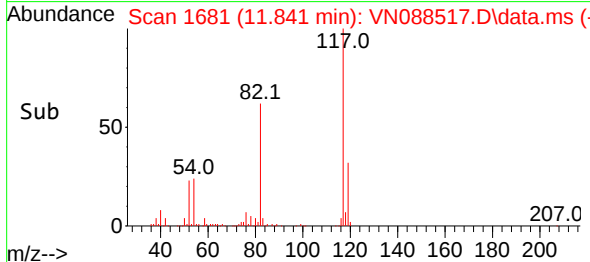
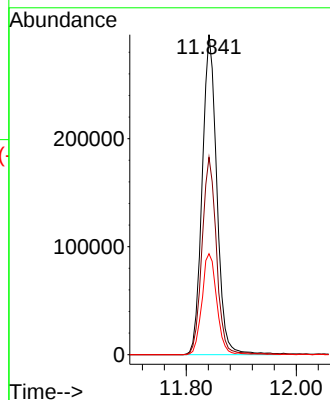
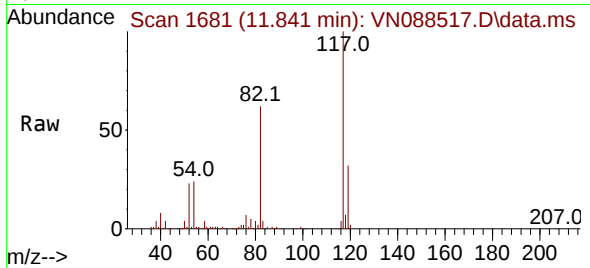




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Instrument :
MSVOA_N
ClientSampleId :
VN1216WBL01

Tgt Ion:117 Resp: 547726
Ion Ratio Lower Upper
117 100
82 61.7 47.8 71.8
119 31.6 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.771 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088517.D
Acq: 16 Dec 2025 11:03

Tgt Ion:152 Resp: 244367
Ion Ratio Lower Upper
152 100
115 63.0 33.0 98.9
150 157.8 0.0 349.0

