

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD051425\
 Data File : VD080331.D
 Acq On : 14 May 2025 19:17
 Operator : RP/MD
 Sample : Q2010-02
 Misc : 5.48G/5.0ml/MSVOA_D/SOIL/A
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TP-13

Quant Time: May 15 03:39:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D050625S.M
 Quant Title : SW846 8260
 QLast Update : Wed May 07 08:57:11 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.876	168	68027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.776	114	175314	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.582	117	166929	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.517	152	69324	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.235	65	63775	72.496	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	145.000%
35) Dibromofluoromethane	7.811	113	69814	59.415	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	118.840%
50) Toluene-d8	10.270	98	232081	50.129	ug/l	0.00
Spiked Amount	50.000	Range	58 - 134	Recovery	=	100.260%
62) 4-Bromofluorobenzene	12.570	95	62980	42.382	ug/l	0.00
Spiked Amount	50.000	Range	30 - 143	Recovery	=	84.760%

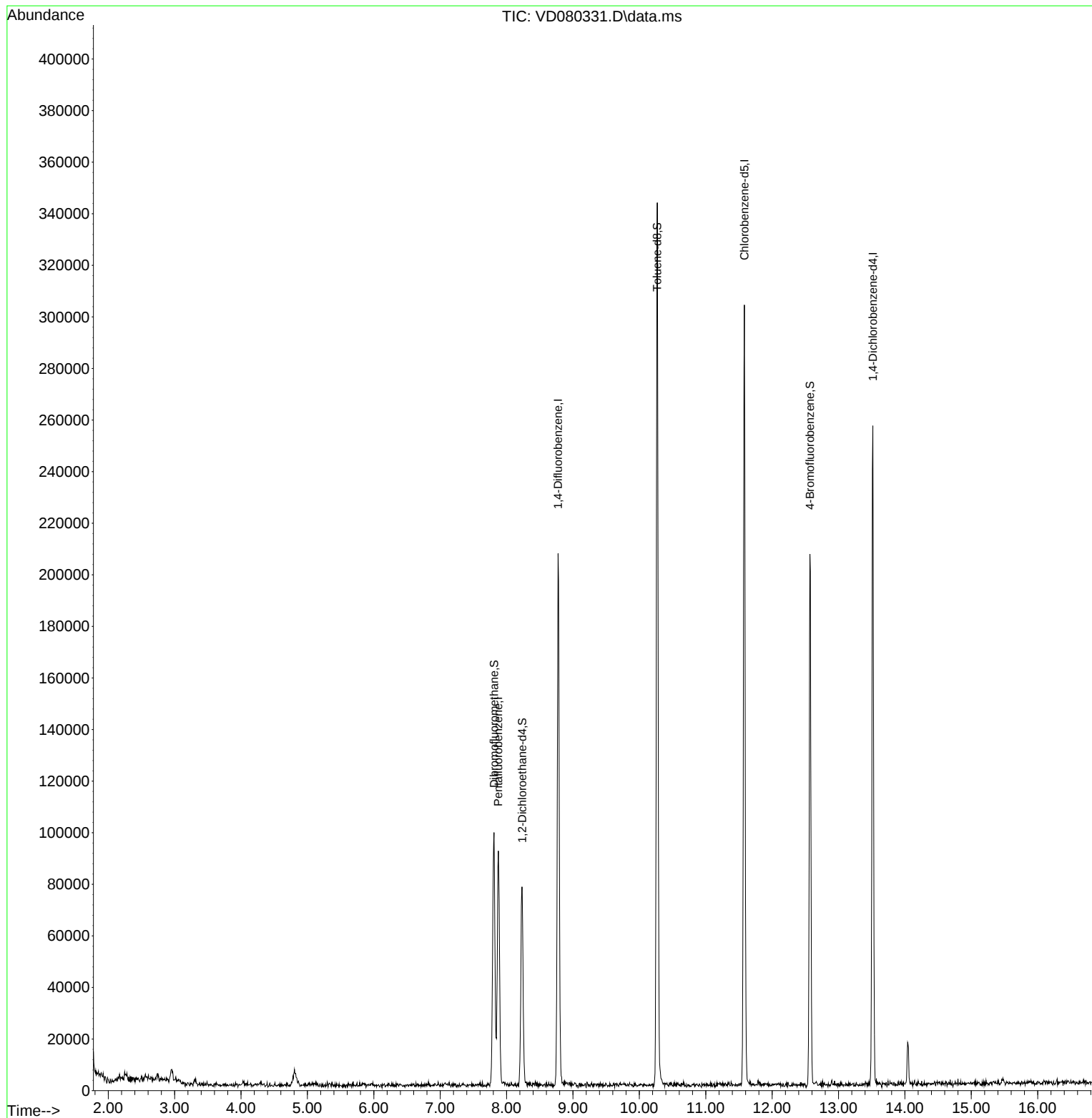
Target Compounds	Qvalue

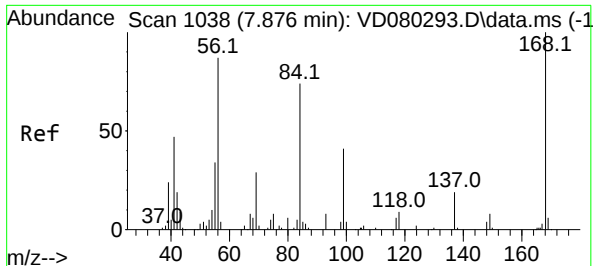
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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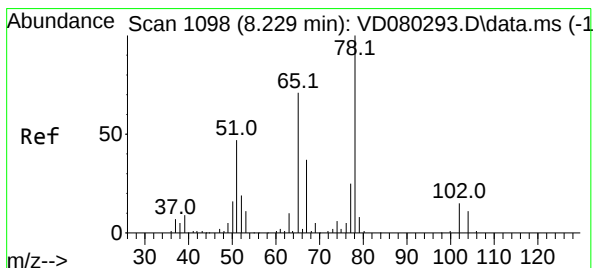
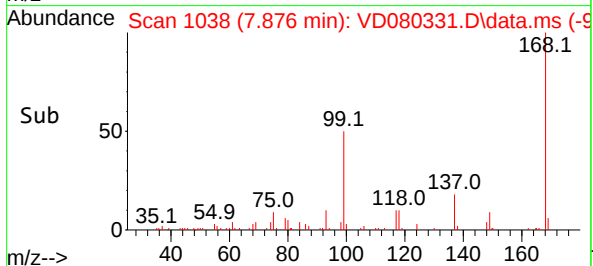
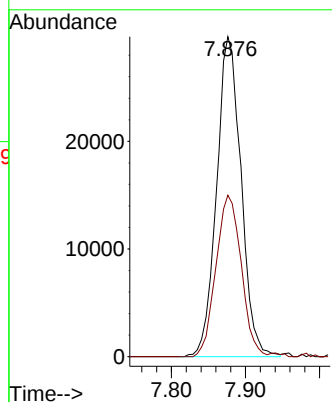
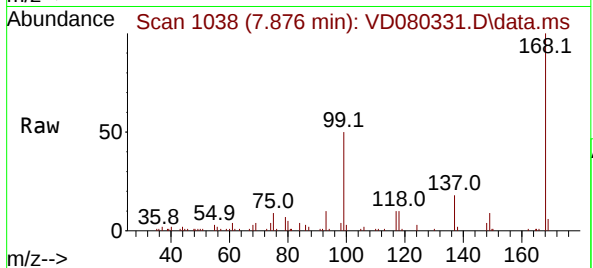




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.876 min Scan# 1038
Delta R.T. 0.001 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

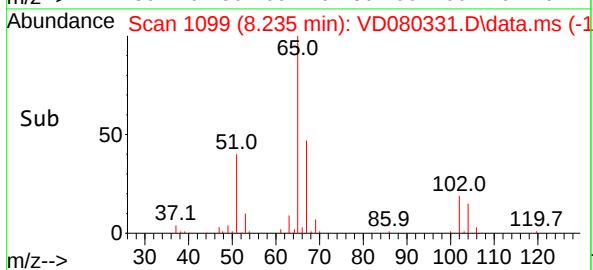
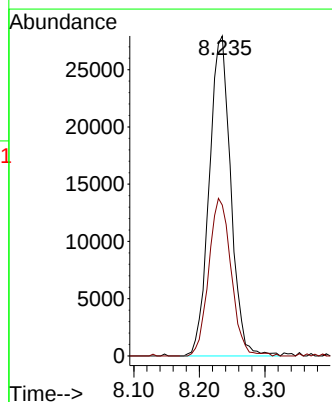
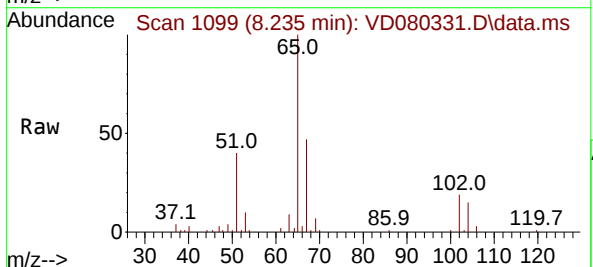
Instrument :
MSVOA_D
ClientSampleId :
TP-13

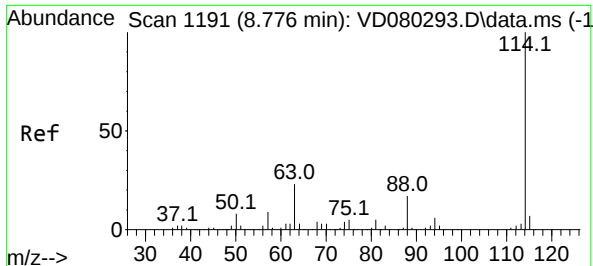
Tgt Ion:168 Resp: 68027
Ion Ratio Lower Upper
168 100
99 50.5 46.0 69.0



#33
1,2-Dichloroethane-d4
Concen: 72.496 ug/l
RT: 8.235 min Scan# 1099
Delta R.T. 0.007 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

Tgt Ion: 65 Resp: 63775
Ion Ratio Lower Upper
65 100
67 51.4 0.0 109.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.776 min Scan# 1191

Delta R.T. 0.001 min

Lab File: VD080331.D

Acq: 14 May 2025 19:17

Instrument :

MSVOA_D

ClientSampleId :

TP-13

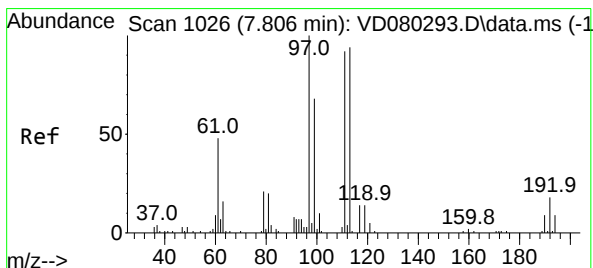
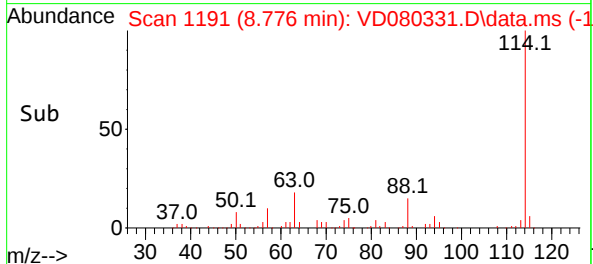
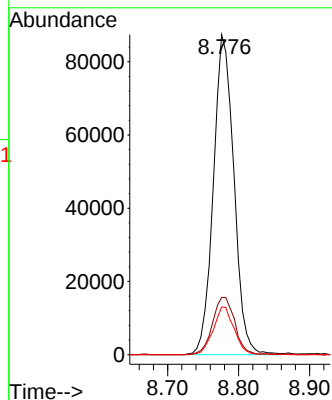
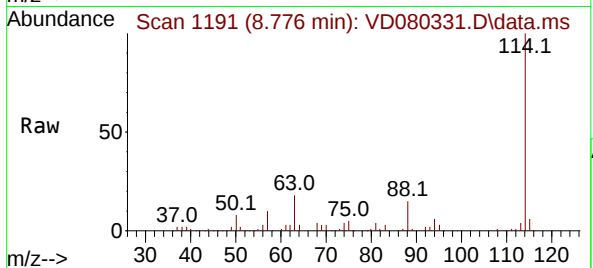
Tgt Ion:114 Resp: 175314

Ion Ratio Lower Upper

114 100

63 17.9 0.0 38.8

88 14.9 0.0 30.6



#35

Dibromofluoromethane

Concen: 59.415 ug/l

RT: 7.811 min Scan# 1027

Delta R.T. 0.006 min

Lab File: VD080331.D

Acq: 14 May 2025 19:17

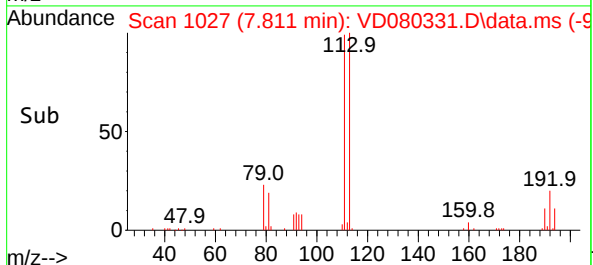
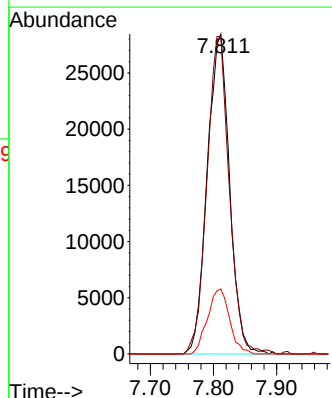
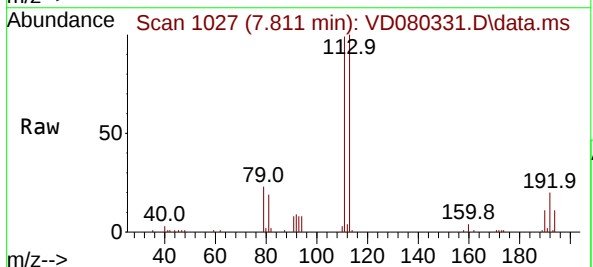
Tgt Ion:113 Resp: 69814

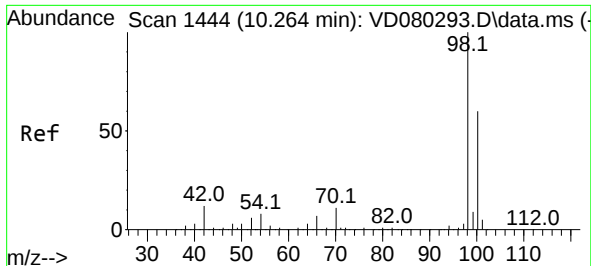
Ion Ratio Lower Upper

113 100

111 99.3 82.5 123.7

192 20.1 16.6 25.0

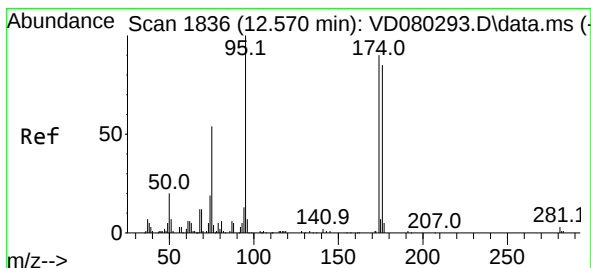
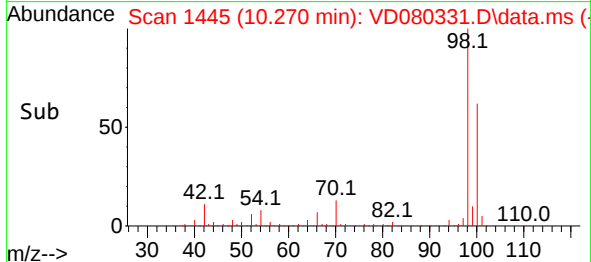
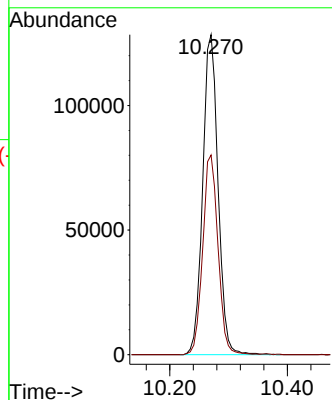
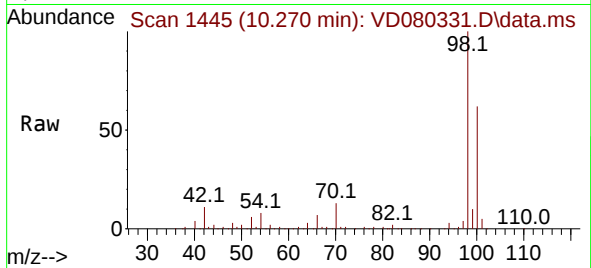




#50
Toluene-d8
Concen: 50.129 ug/l
RT: 10.270 min Scan# 1444
Delta R.T. 0.001 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

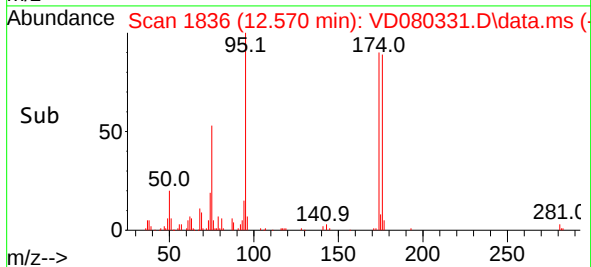
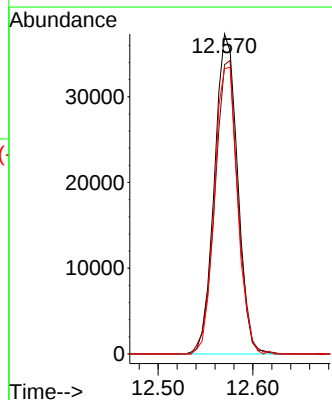
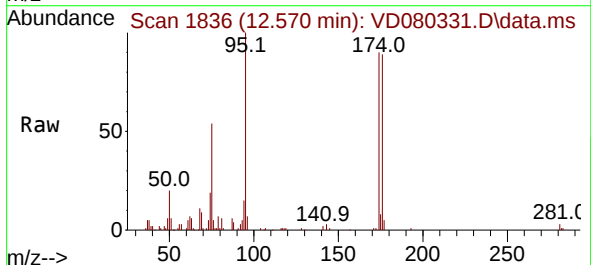
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TP-13

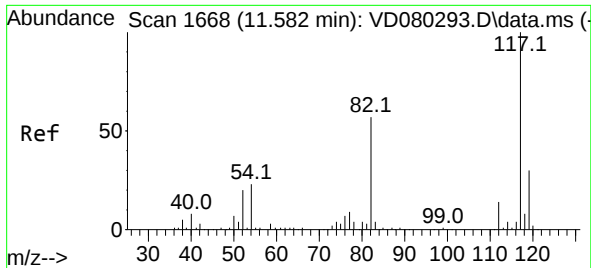
Tgt Ion: 98 Resp: 232081
Ion Ratio Lower Upper
98 100
100 62.2 50.2 75.4



#62
4-Bromofluorobenzene
Concen: 42.382 ug/l
RT: 12.570 min Scan# 1836
Delta R.T. 0.001 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

Tgt Ion: 95 Resp: 62980
Ion Ratio Lower Upper
95 100
174 91.6 0.0 173.4
176 89.7 0.0 166.6

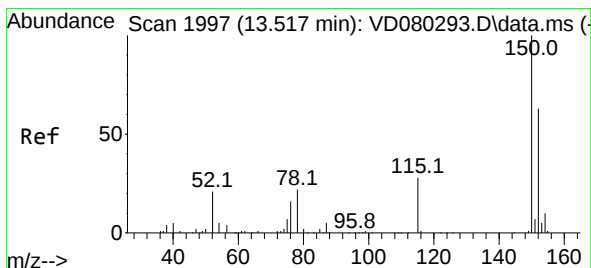
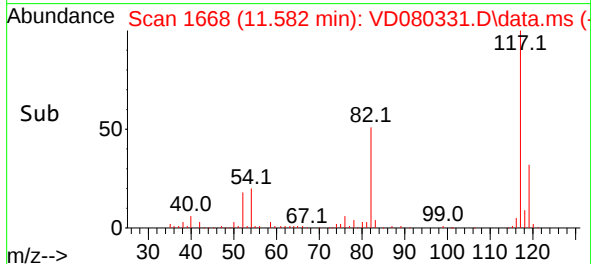
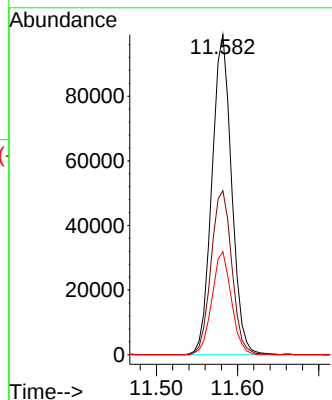
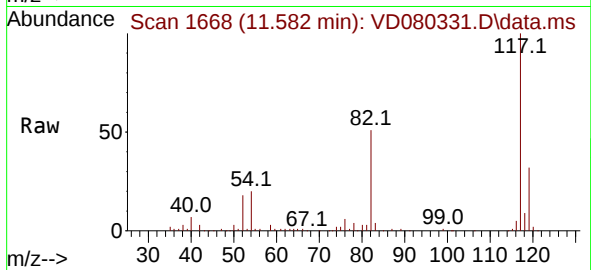




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.582 min Scan# 1
Delta R.T. 0.001 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

Instrument :
MSVOA_D
ClientSampleId :
TP-13

Tgt Ion:117 Resp: 166929
Ion Ratio Lower Upper
117 100
82 51.2 45.8 68.6
119 32.2 26.2 39.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.517 min Scan# 1997
Delta R.T. 0.001 min
Lab File: VD080331.D
Acq: 14 May 2025 19:17

Tgt Ion:152 Resp: 69324
Ion Ratio Lower Upper
152 100
115 55.9 28.9 86.8
150 155.5 0.0 354.8

