

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087878.D
 Acq On : 17 Sep 2025 14:35
 Operator : JC\MD
 Sample : Q3098-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:11:33 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 05 03:29:53 2025
 Response via : Initial Calibration

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

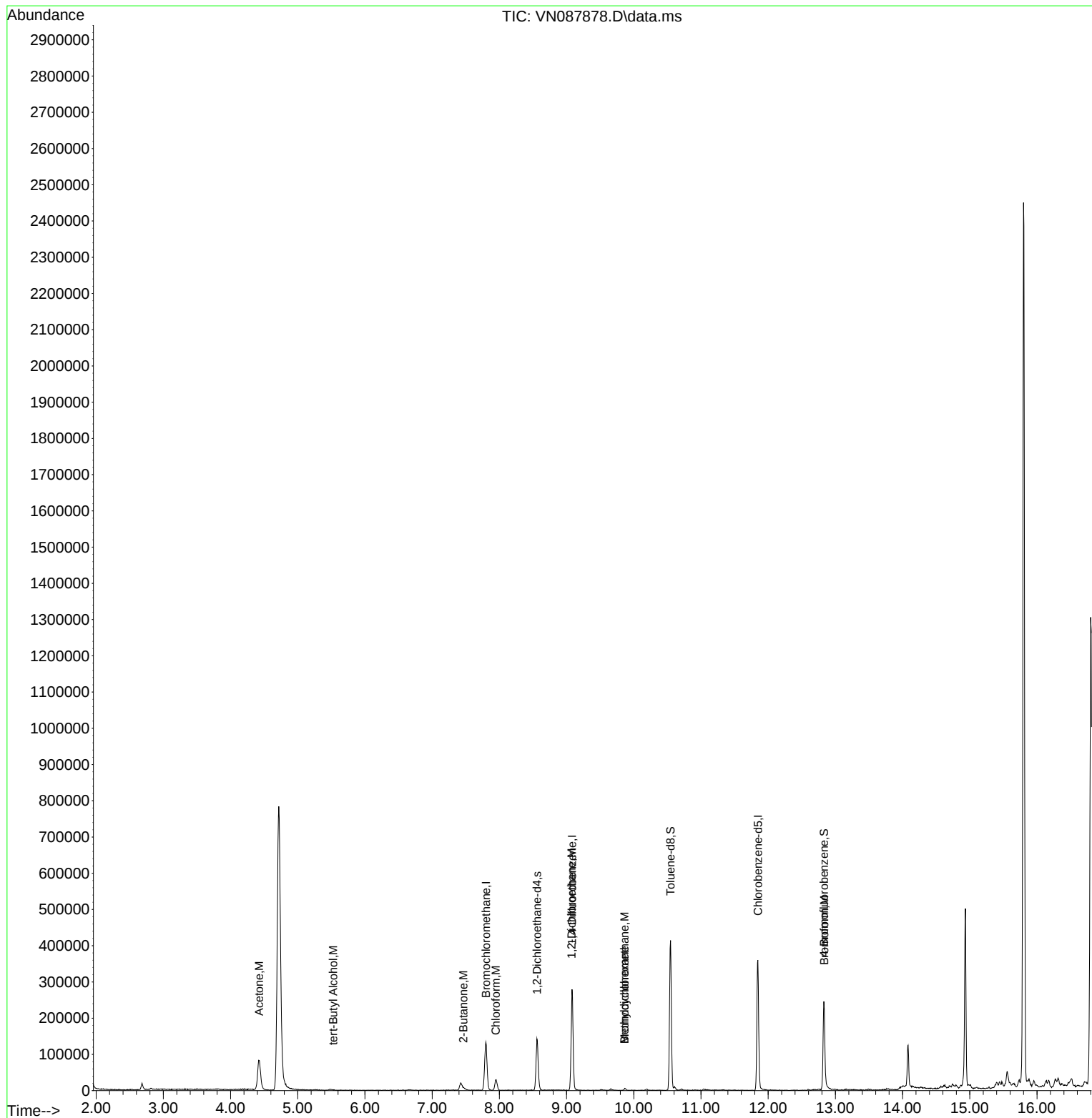
Internal Standards						
1) Bromochloromethane	7.800	128	48057	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	229704	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	209730	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	110417	26.897	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	89.667%#
60) 4-Bromofluorobenzene	12.829	95	88044	26.108	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	87.033%
63) Toluene-d8	10.547	98	284412	29.160	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.200%
Target Compounds						
					Qvalue	
15) Acetone	4.424	58	48944	81.505	ug/l	89
23) tert-Butyl Alcohol	5.530	59	225	0.331	ug/l #	100
25) Chloroform	7.947	83	27639	4.425	ug/l	89
30) 2-Butanone	7.465	43	6170	2.399	ug/l #	76
36) 1,2-Dichloroethane	9.077	62	9863	2.164	ug/l #	75
38) Methylcyclohexane	9.865	83	3332	0.811	ug/l #	18
41) Bromodichloromethane	9.865	83	3836	0.816	ug/l #	97
56) Bromoform	12.835	173	961	0.442	ug/l #	1

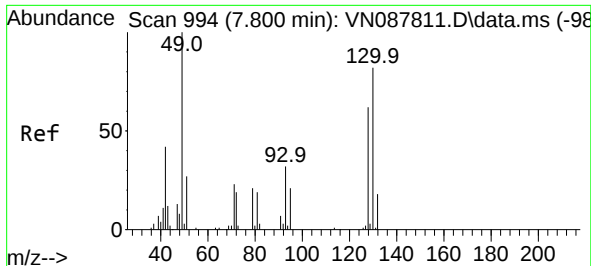
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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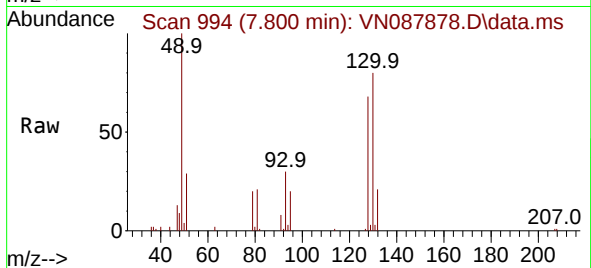
Quant Time: Sep 18 03:11:33 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



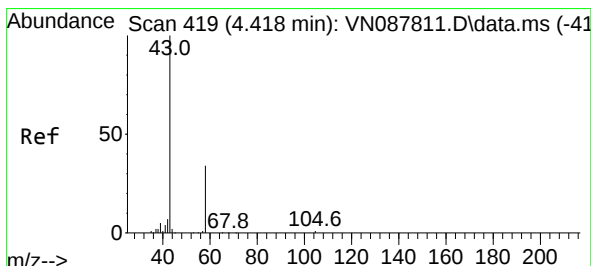
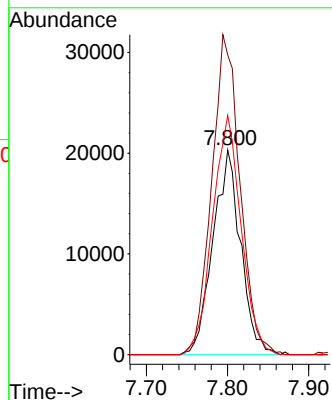
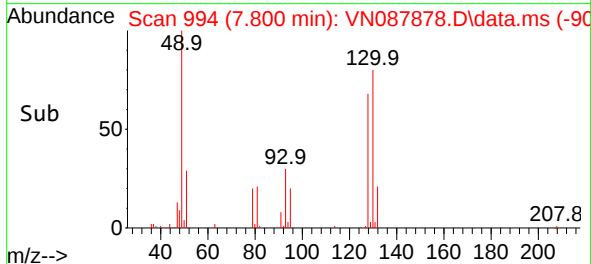


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

Instrument :
MSVOA_N
ClientSampleId :

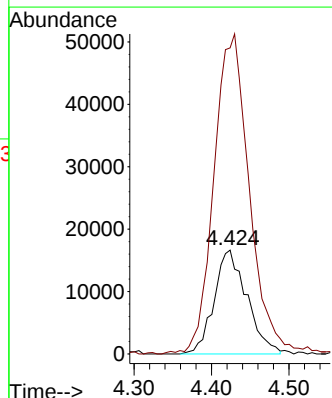
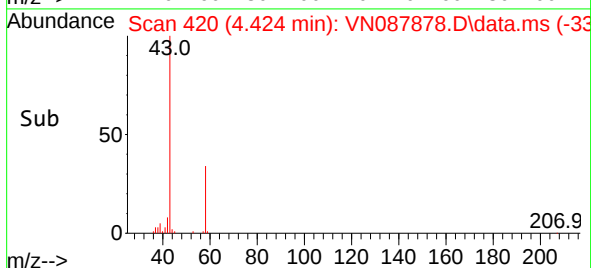
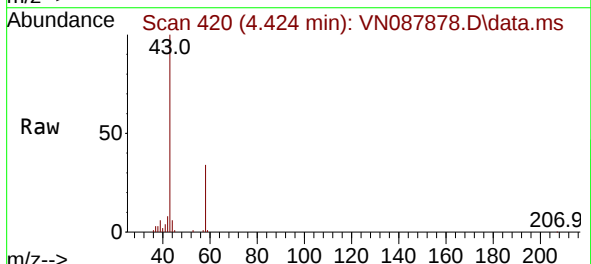


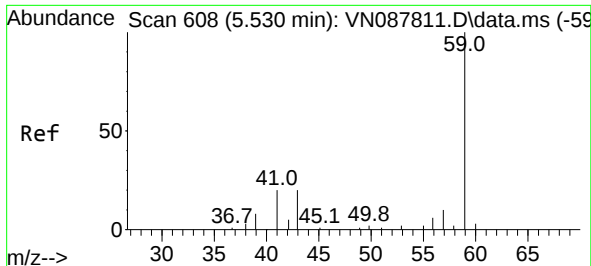
Tgt Ion:128 Resp: 48057
Ion Ratio Lower Upper
128 100
49 160.3 0.0 464.3
130 121.7 0.0 300.5



#15
Acetone
Concen: 81.505 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

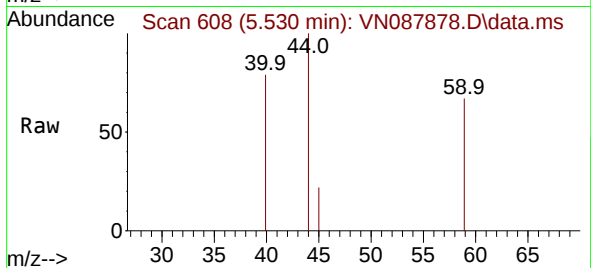
Tgt Ion: 58 Resp: 48944
Ion Ratio Lower Upper
58 100
43 291.5 250.6 376.0



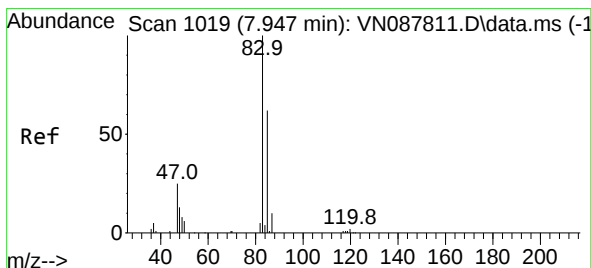
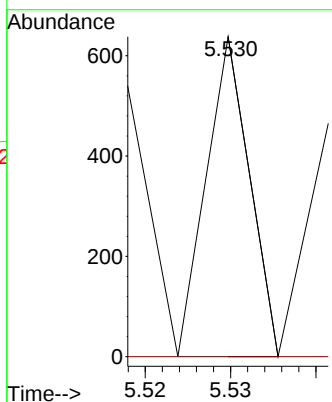
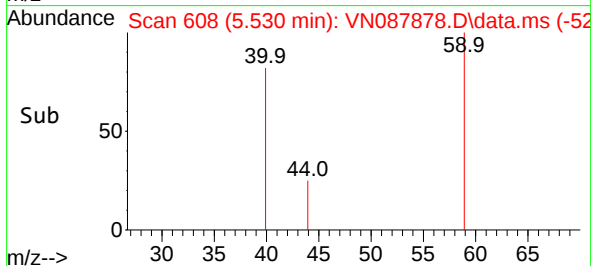


#23
tert-Butyl Alcohol
Concen: 0.331 ug/l
RT: 5.530 min Scan# 608
Delta R.T. -0.000 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

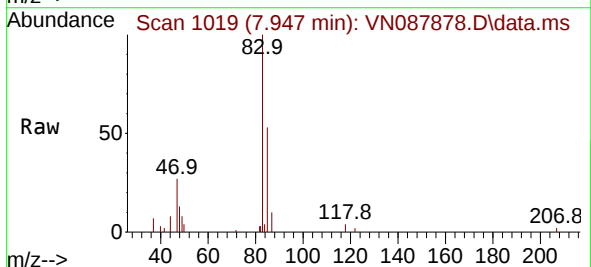
Instrument :
MSVOA_N
ClientSampleId :



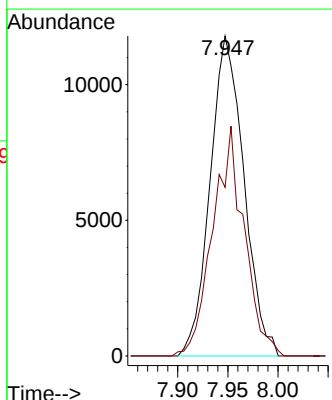
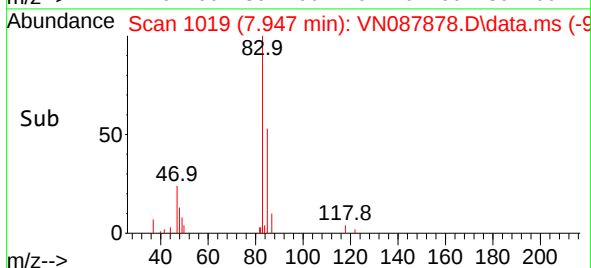
Tgt Ion: 59 Resp: 225
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

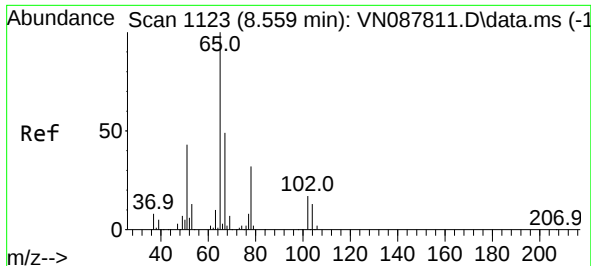


#25
Chloroform
Concen: 4.425 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35



Tgt Ion: 83 Resp: 27639
Ion Ratio Lower Upper
83 100
85 51.4 47.7 71.5

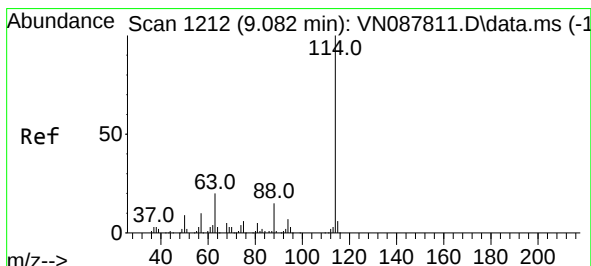
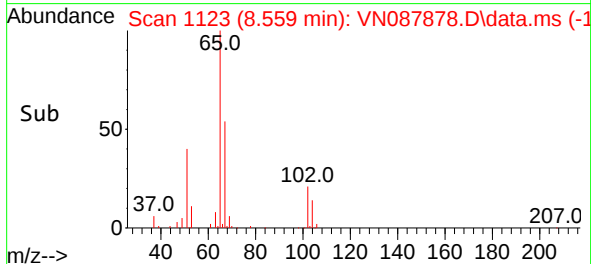
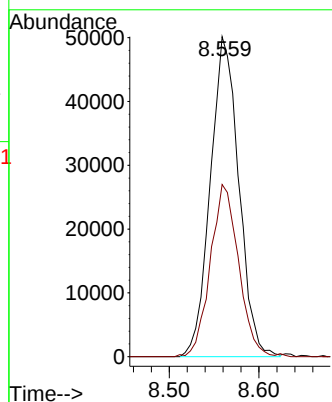
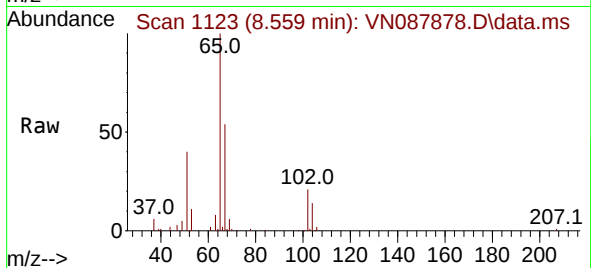




#27
1,2-Dichloroethane-d4
Concen: 26.897 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

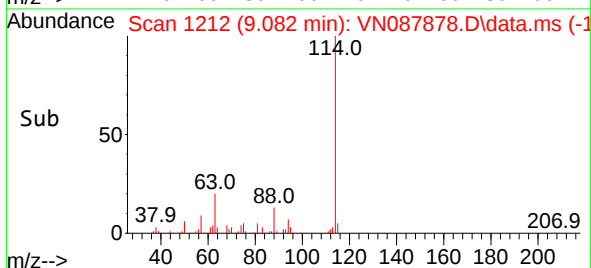
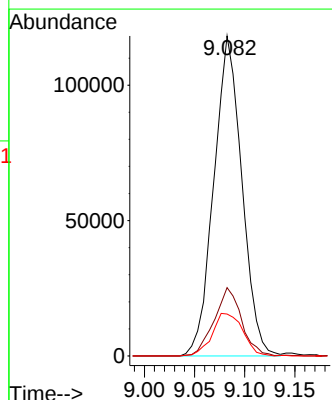
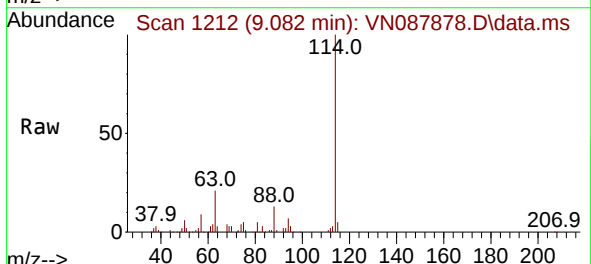
Instrument :
MSVOA_N
ClientSampleId :

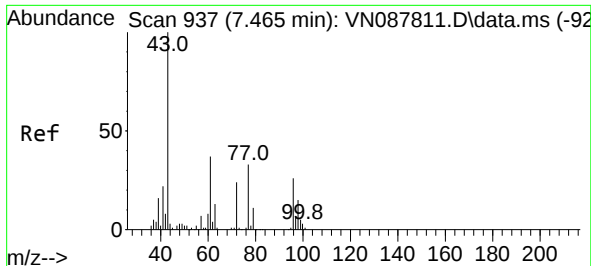
Tgt Ion: 65 Resp: 110417
Ion Ratio Lower Upper
65 100
67 53.3 39.6 59.4



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

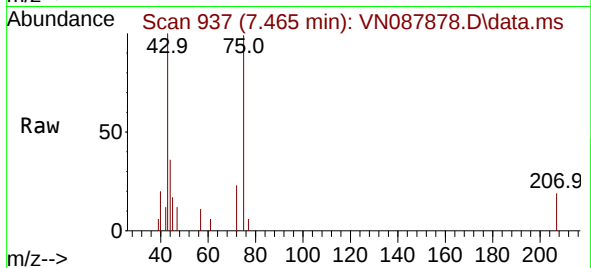
Tgt Ion:114 Resp: 229704
Ion Ratio Lower Upper
114 100
63 20.8 18.3 27.5
88 14.5 12.4 18.6



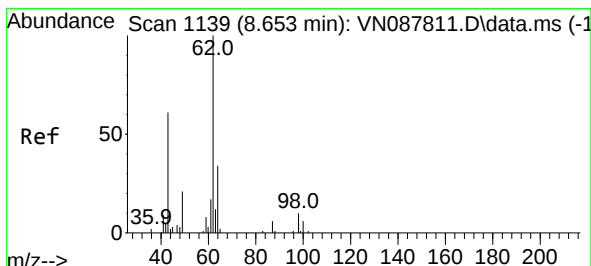
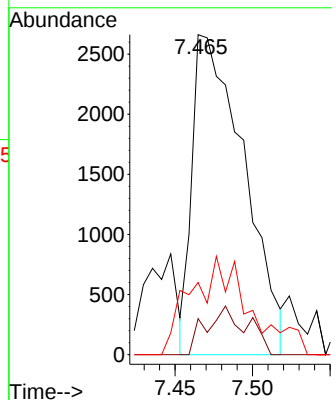
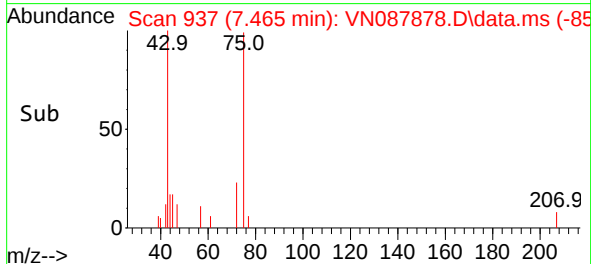


#30
2-Butanone
Concen: 2.399 ug/l
RT: 7.465 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

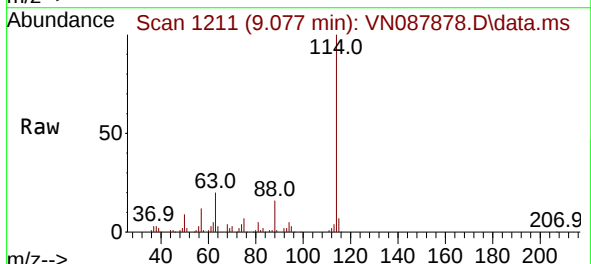
Instrument :
MSVOA_N
ClientSampleId :



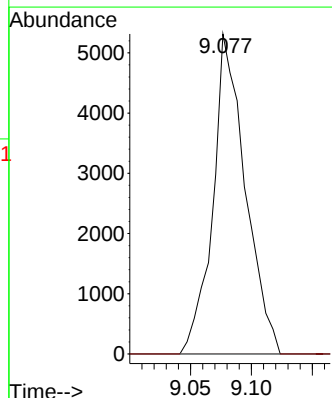
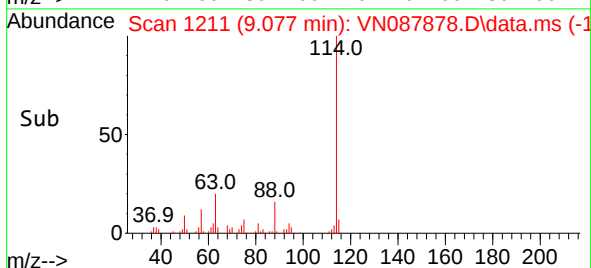
Tgt Ion: 43 Resp: 6170
Ion Ratio Lower Upper
43 100
57 2.8 6.3 9.5#
72 12.8 21.4 32.2#

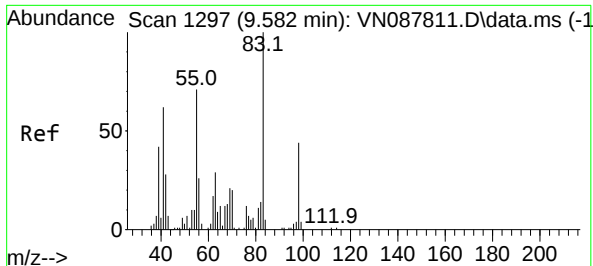


#36
1,2-Dichloroethane
Concen: 2.164 ug/l
RT: 9.077 min Scan# 1211
Delta R.T. 0.423 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35



Tgt Ion: 62 Resp: 9863
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#





#38

Methylcyclohexane

Concen: 0.811 ug/l

RT: 9.865 min Scan# 1345

Delta R.T. 0.282 min

Lab File: VN087878.D

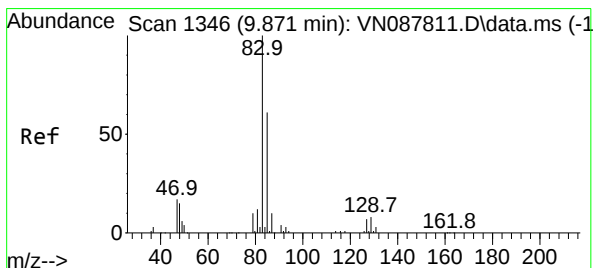
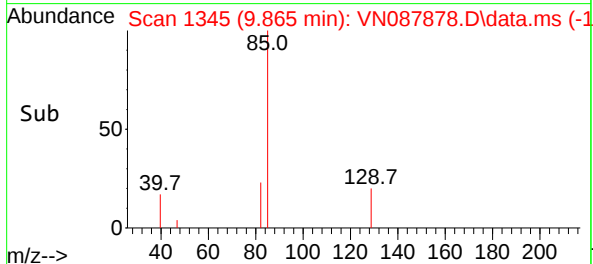
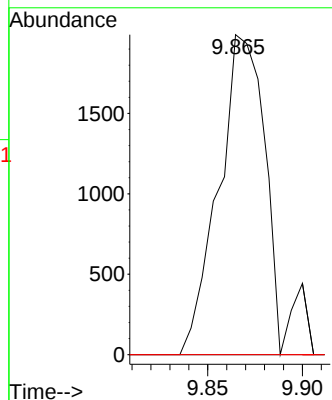
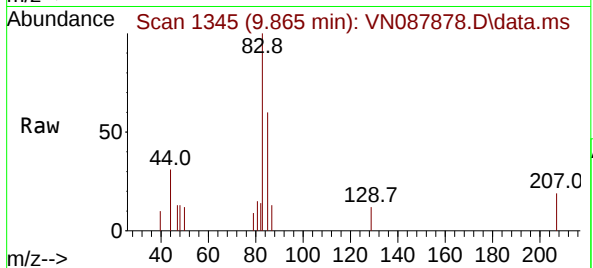
Acq: 17 Sep 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	83	Resp:	3332
Ion	Ratio	Lower	Upper
83	100		
55	2.5	40.4	121.1#
98	0.0	24.0	72.0#



#41

Bromodichloromethane

Concen: 0.816 ug/l

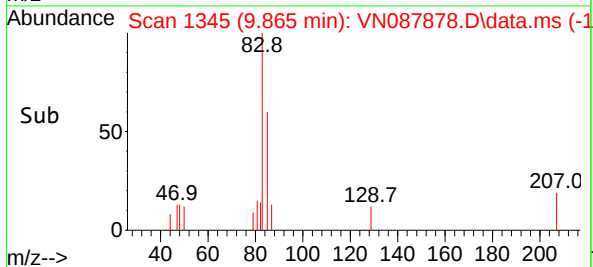
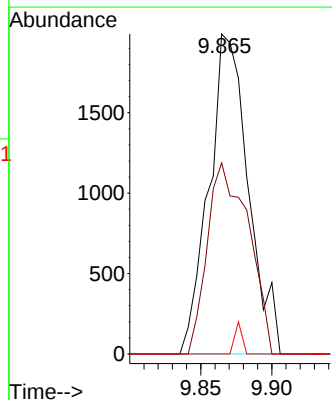
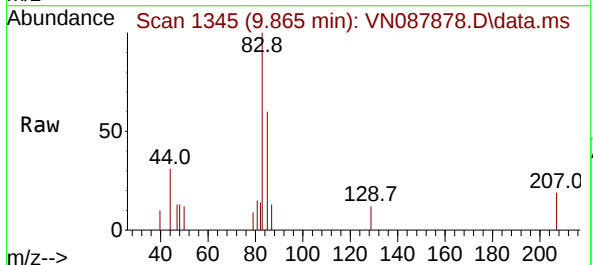
RT: 9.865 min Scan# 1345

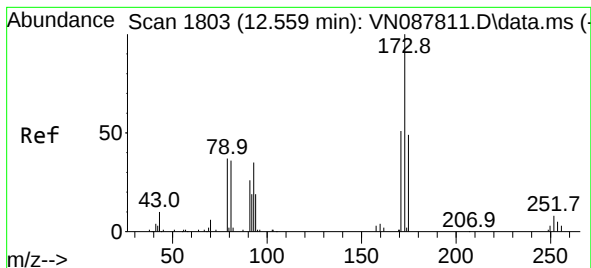
Delta R.T. -0.006 min

Lab File: VN087878.D

Acq: 17 Sep 2025 14:35

Tgt Ion:	83	Resp:	3836
Ion	Ratio	Lower	Upper
83	100		
85	59.7	47.3	70.9
127	0.0	5.2	7.8#





#56

Bromoform

Concen: 0.442 ug/l

RT: 12.835 min Scan# 1850

Delta R.T. 0.276 min

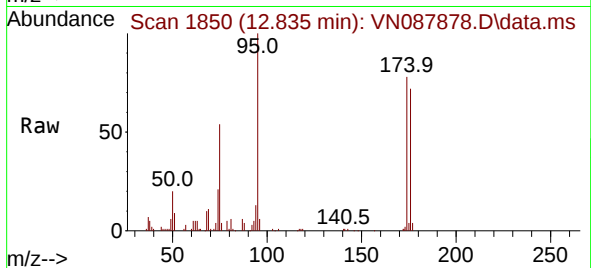
Lab File: VN087878.D

Acq: 17 Sep 2025 14:35

Instrument :

MSVOA_N

ClientSampleId :



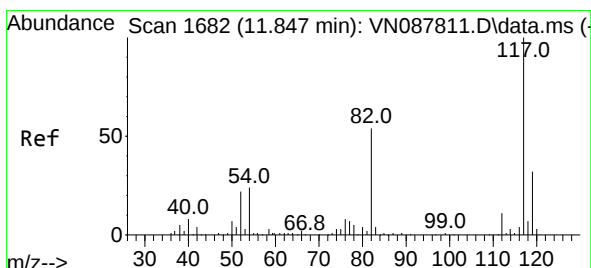
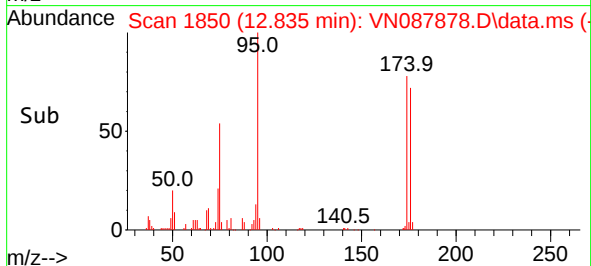
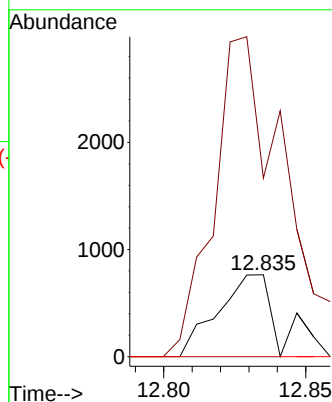
Tgt Ion:173 Resp: 961

Ion Ratio Lower Upper

173 100

175 542.8 39.8 59.6#

254 0.0 6.2 9.4#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1682

Delta R.T. 0.006 min

Lab File: VN087878.D

Acq: 17 Sep 2025 14:35

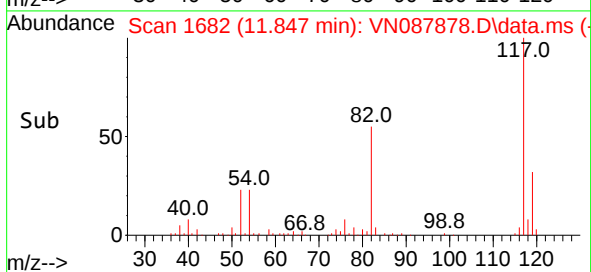
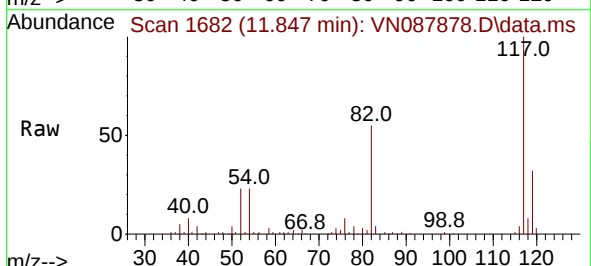
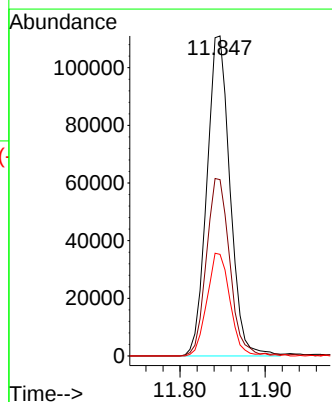
Tgt Ion:117 Resp: 209730

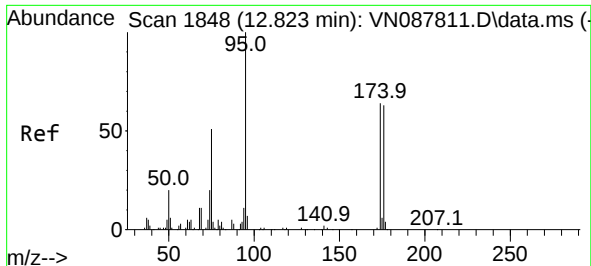
Ion Ratio Lower Upper

117 100

82 56.1 45.9 68.9

119 31.7 25.3 37.9

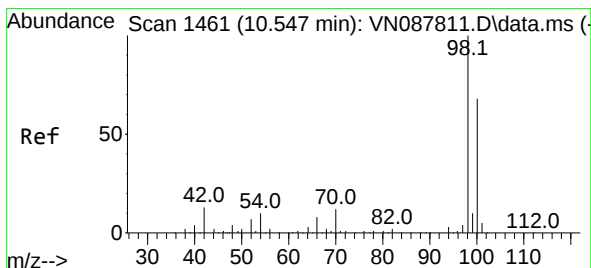
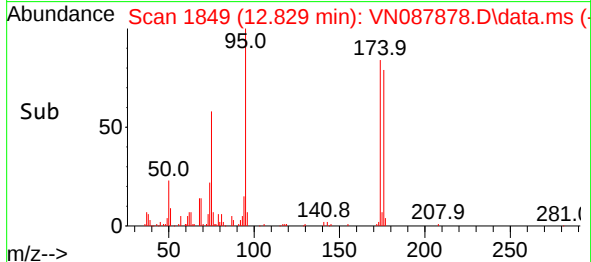
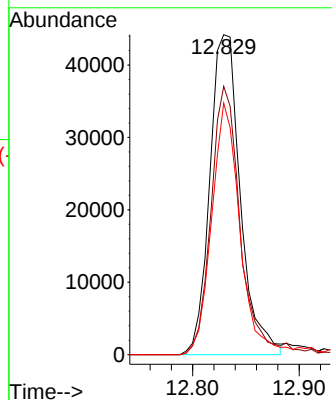
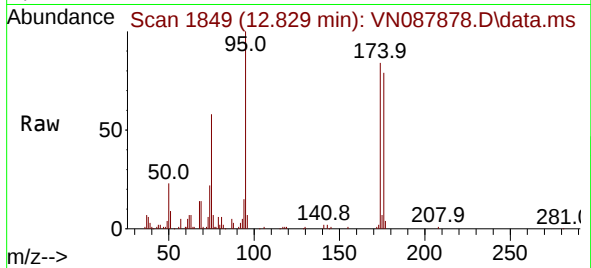




#60
4-Bromofluorobenzene
Concen: 26.108 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 95 Resp: 88044
Ion Ratio Lower Upper
95 100
174 78.8 55.4 83.0
176 72.8 51.5 77.3



#63
Toluene-d8
Concen: 29.160 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087878.D
Acq: 17 Sep 2025 14:35

Tgt Ion: 98 Resp: 284412
Ion Ratio Lower Upper
98 100
100 64.0 50.6 76.0

