

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087881.D
 Acq On : 17 Sep 2025 15:39
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:13:39 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)

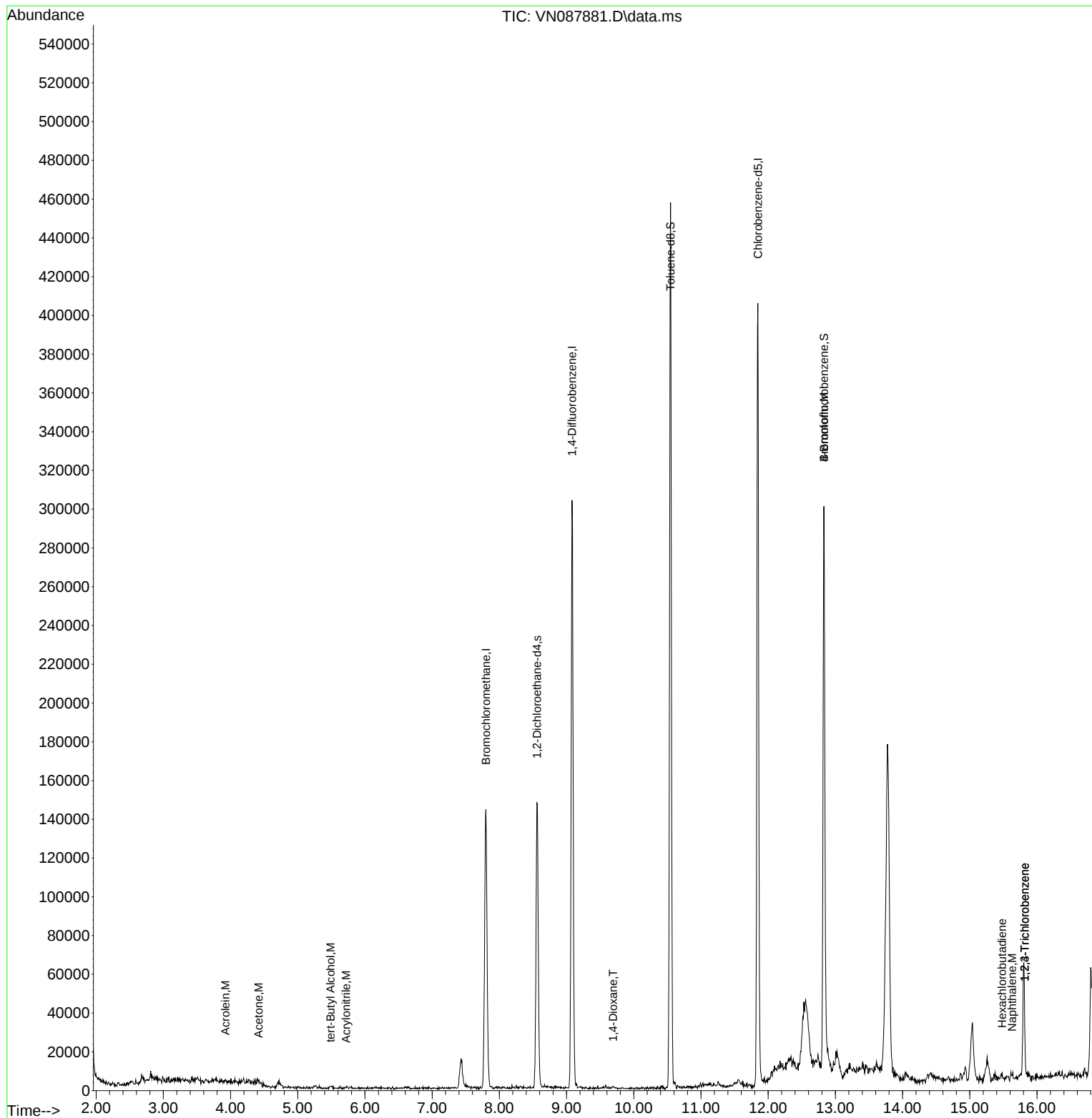
Internal Standards						
1) Bromochloromethane	7.800	128	51168	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	258656	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	232850	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	122610	28.051	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	93.500%
60) 4-Bromofluorobenzene	12.829	95	105313	28.128	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	93.767%
63) Toluene-d8	10.547	98	306407	28.296	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.333%
Target Compounds						
					Qvalue	
13) Acrolein	3.924	56	235	0.277	ug/l	98
14) Acrylonitrile	5.718	53	801	0.391	ug/l #	35
15) Acetone	4.418	58	203	0.317	ug/l #	1
23) tert-Butyl Alcohol	5.488	59	408	0.563	ug/l #	100
45) 1,4-Dioxane	9.694	88	381	6.514	ug/l #	21
56) Bromoform	12.829	173	747	0.305	ug/l #	34
89) 1,2,4-Trichlorobenzene	15.817	180	919	0.262	ug/l #	80
90) Hexachlorobutadiene	15.482	225	276	0.235	ug/l	76
91) Naphthalene	15.629	128	3025	0.234	ug/l #	79
92) 1,2,3-Trichlorobenzene	15.817	180	919	0.262	ug/l	80

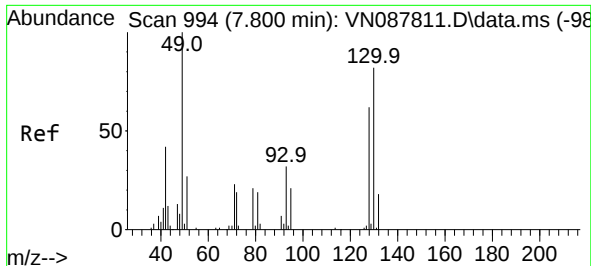
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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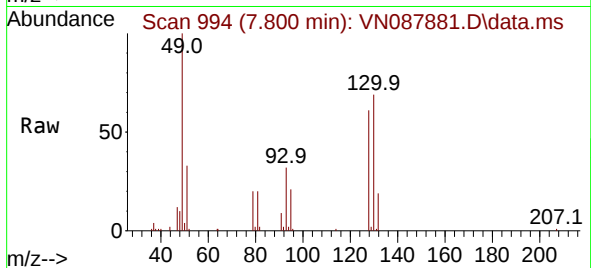
Quant Time: Sep 18 03:13:39 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



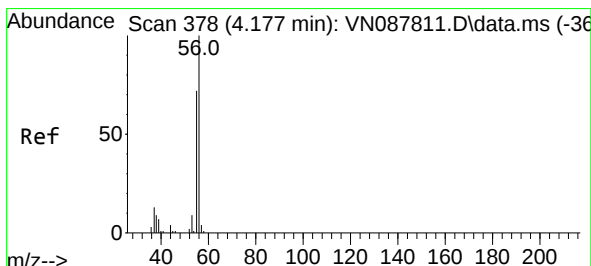
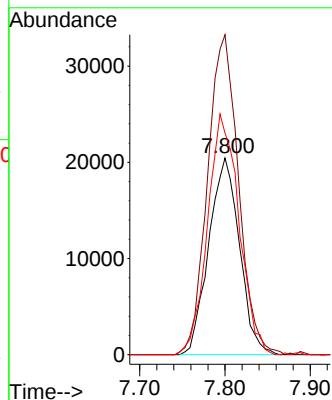
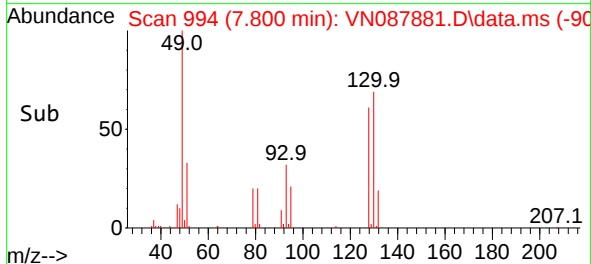


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Instrument :
MSVOA_N
ClientSampleId :

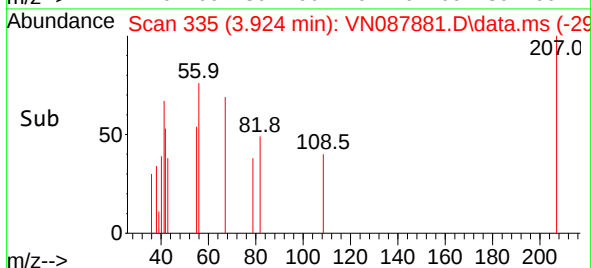
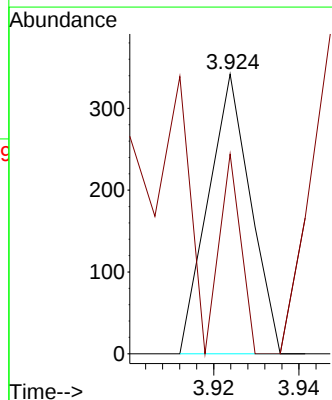
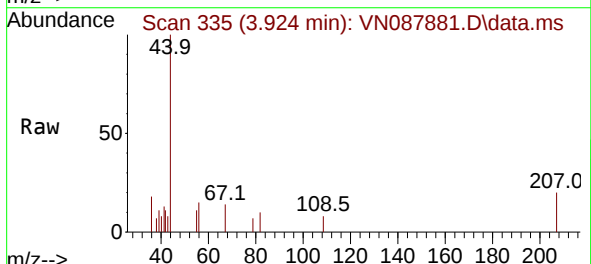


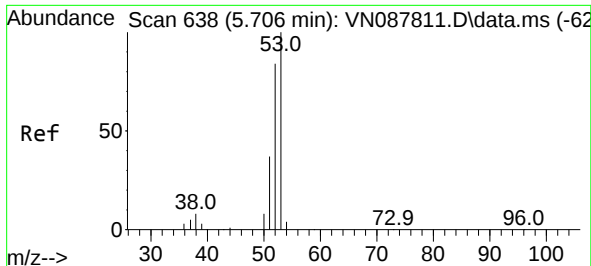
Tgt Ion:128 Resp: 51168
Ion Ratio Lower Upper
128 100
49 164.0 0.0 464.3
130 125.0 0.0 300.5



#13
Acrolein
Concen: 0.277 ug/l
RT: 3.924 min Scan# 335
Delta R.T. -0.253 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

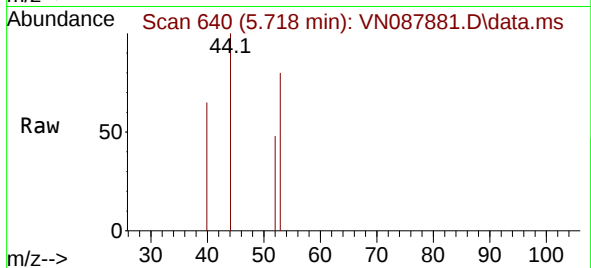
Tgt Ion: 56 Resp: 235
Ion Ratio Lower Upper
56 100
55 36.6 28.6 42.8



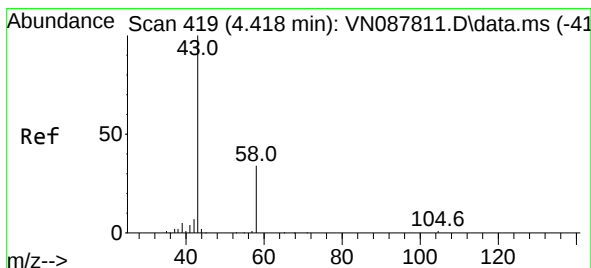
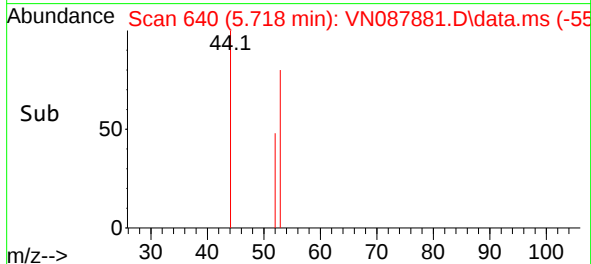
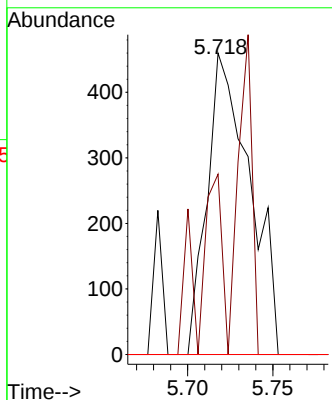


#14
Acrylonitrile
Concen: 0.391 ug/l
RT: 5.718 min Scan# 641
Delta R.T. -0.000 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Instrument :
MSVOA_N
ClientSampleId :

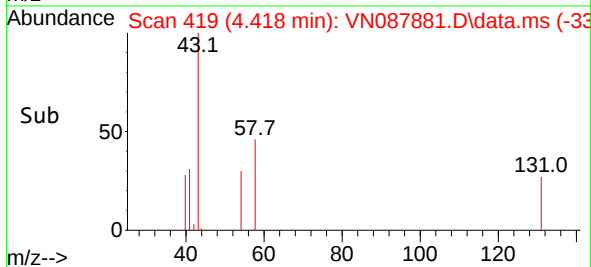
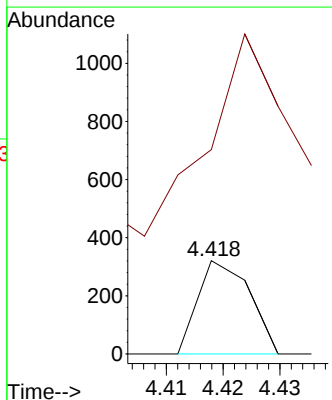
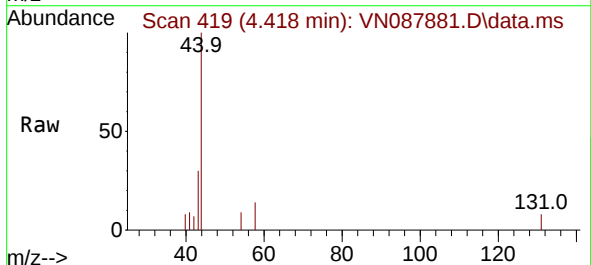


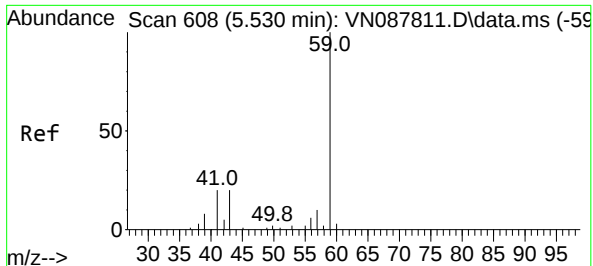
Tgt Ion: 53 Resp: 801
Ion Ratio Lower Upper
53 100
52 22.7 40.9 122.7#
51 0.0 18.1 54.1#



#15
Acetone
Concen: 0.317 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.012 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

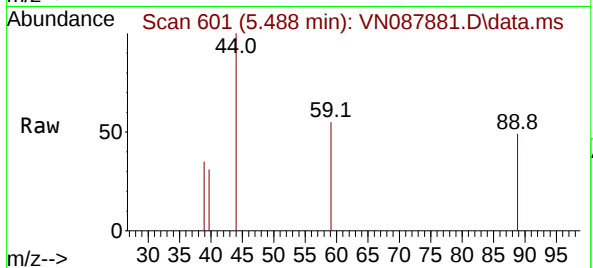
Tgt Ion: 58 Resp: 203
Ion Ratio Lower Upper
58 100
43 27.1 250.6 376.0#



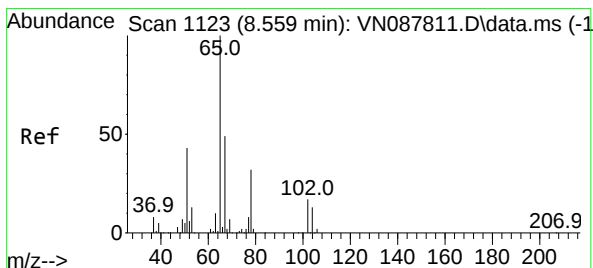
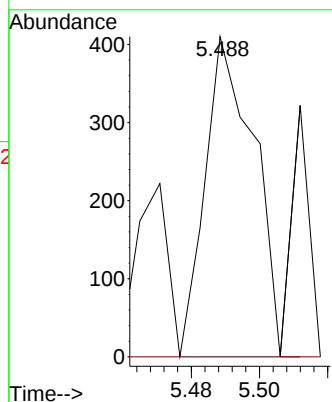
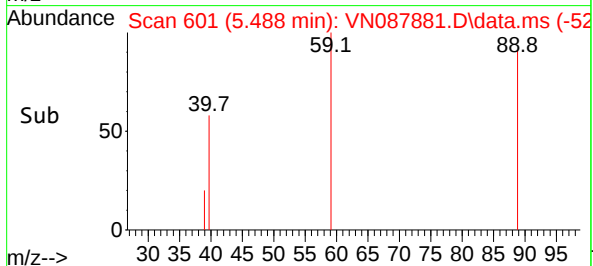


#23
 tert-Butyl Alcohol
 Concen: 0.563 ug/l
 RT: 5.488 min Scan# 608
 Delta R.T. -0.041 min
 Lab File: VN087881.D
 Acq: 17 Sep 2025 15:39

Instrument :
 MSVOA_N
 ClientSampleId :

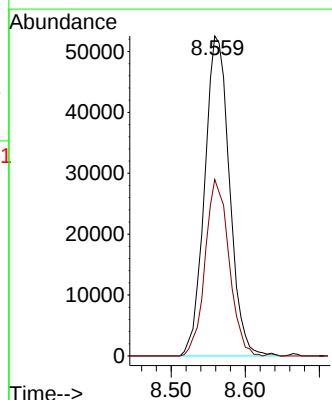
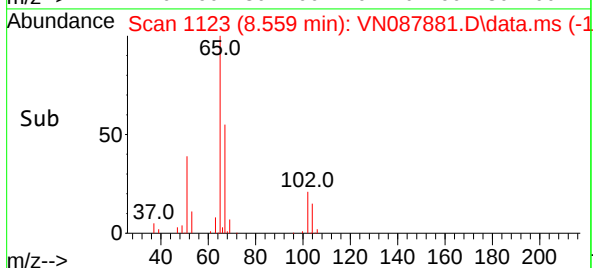
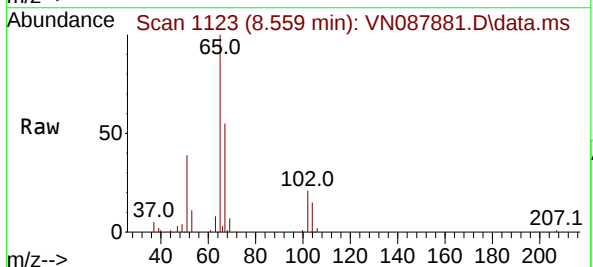


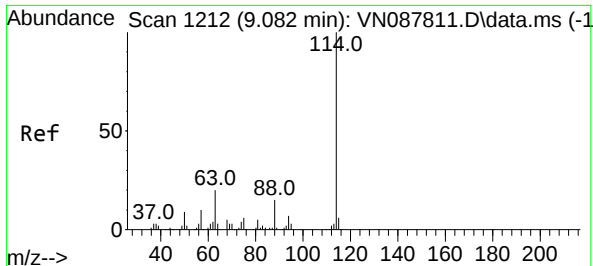
Tgt Ion: 59 Resp: 408
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.0 0.0



#27
 1,2-Dichloroethane-d4
 Concen: 28.051 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. -0.000 min
 Lab File: VN087881.D
 Acq: 17 Sep 2025 15:39

Tgt Ion: 65 Resp: 122610
 Ion Ratio Lower Upper
 65 100
 67 53.0 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN087881.D

Acq: 17 Sep 2025 15:39

Instrument :

MSVOA_N

ClientSampleId :

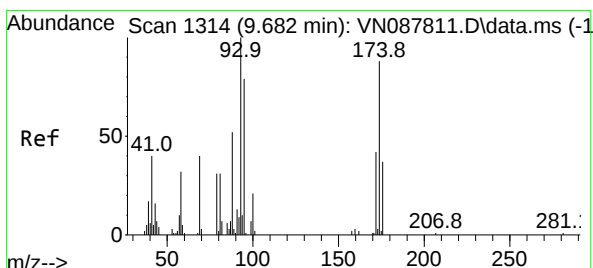
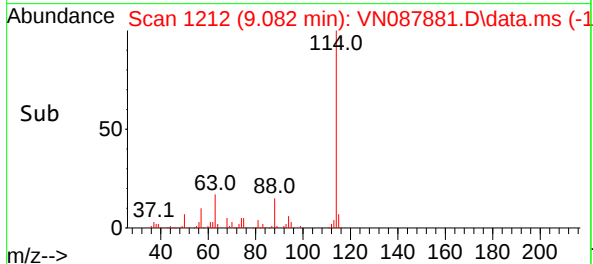
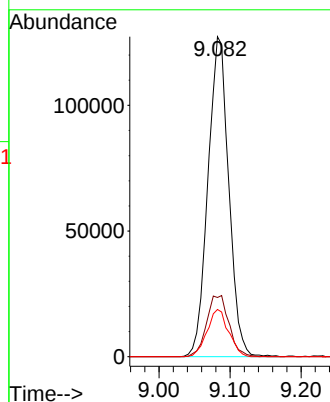
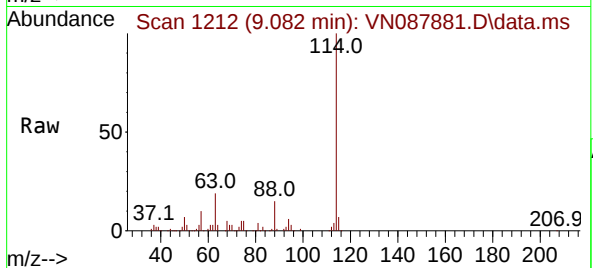
Tgt Ion:114 Resp: 258656

Ion Ratio Lower Upper

114 100

63 20.6 18.3 27.5

88 15.2 12.4 18.6



#45

1,4-Dioxane

Concen: 6.514 ug/l

RT: 9.694 min Scan# 1316

Delta R.T. 0.017 min

Lab File: VN087881.D

Acq: 17 Sep 2025 15:39

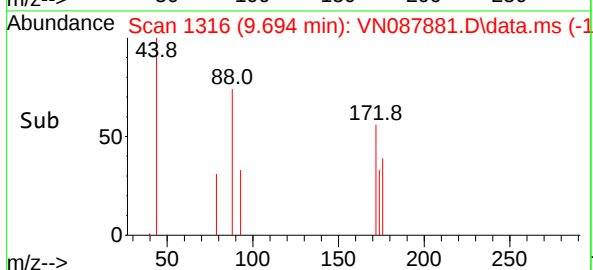
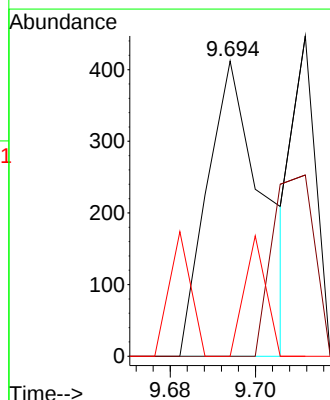
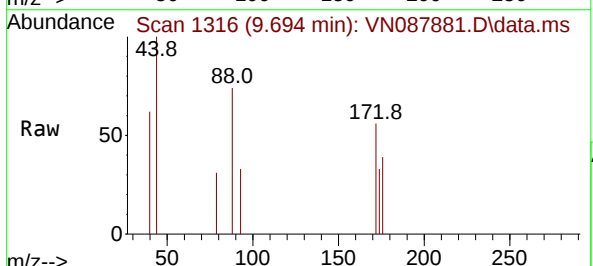
Tgt Ion: 88 Resp: 381

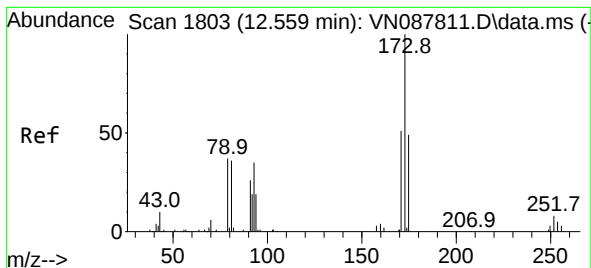
Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 60.5 90.7#

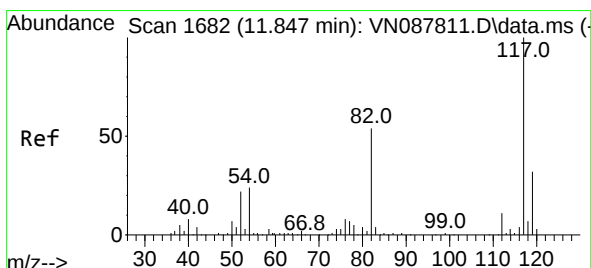
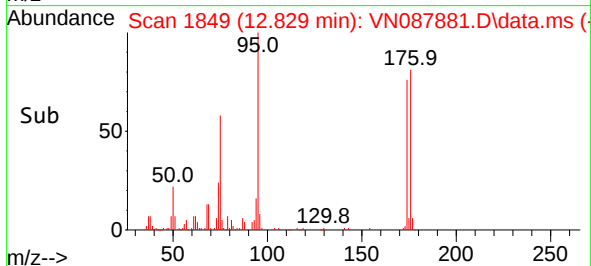
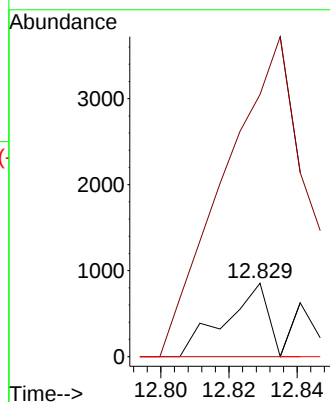
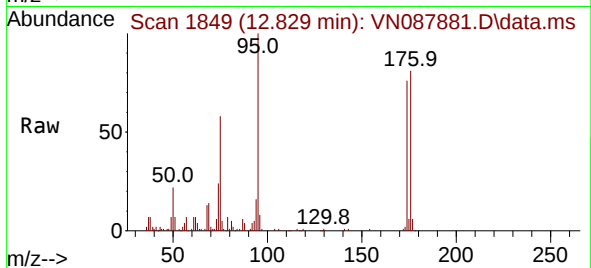




#56
Bromoform
Concen: 0.305 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.270 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

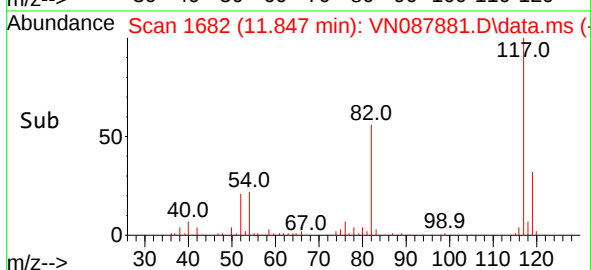
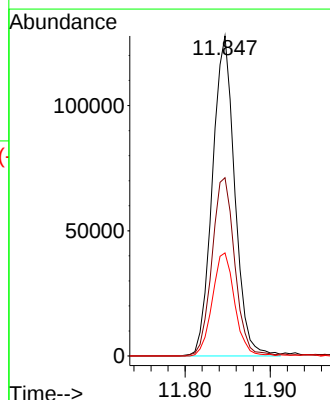
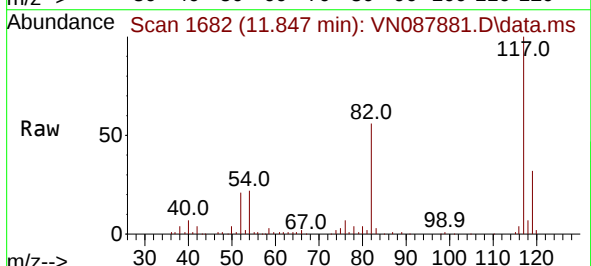
Instrument :
MSVOA_N
ClientSampleId :

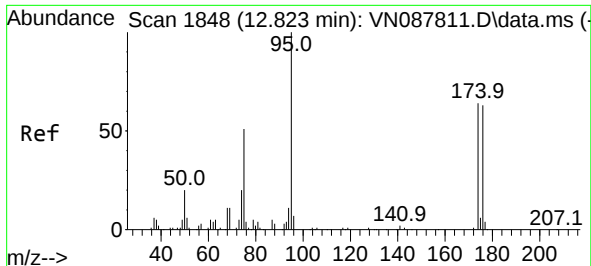
Tgt Ion:173 Resp: 747
Ion Ratio Lower Upper
173 100
175 0.0 39.8 59.6#
254 0.0 6.2 9.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. 0.006 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Tgt Ion:117 Resp: 232850
Ion Ratio Lower Upper
117 100
82 56.8 45.9 68.9
119 32.2 25.3 37.9

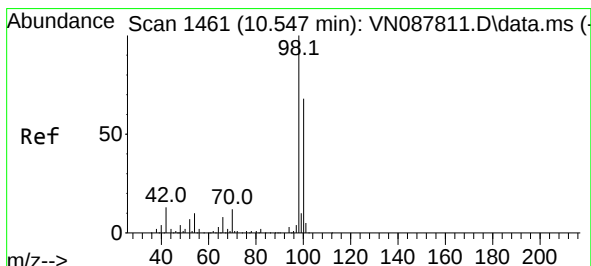
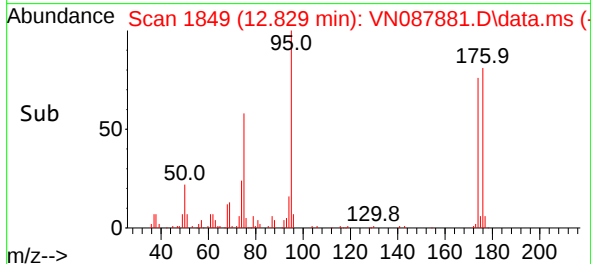
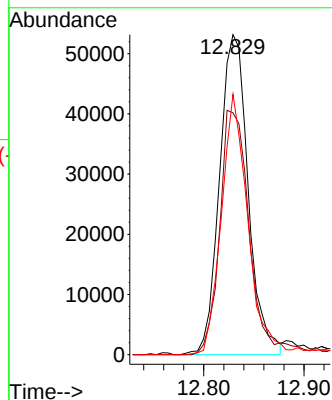
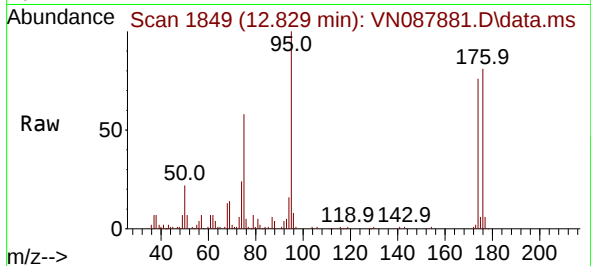




#60
4-Bromofluorobenzene
Concen: 28.128 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

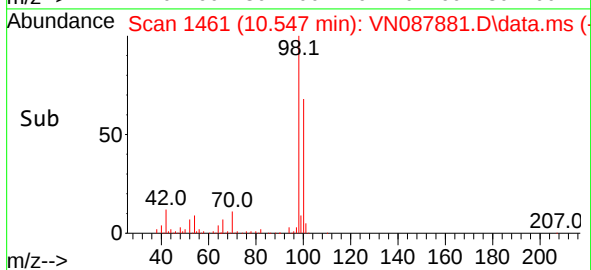
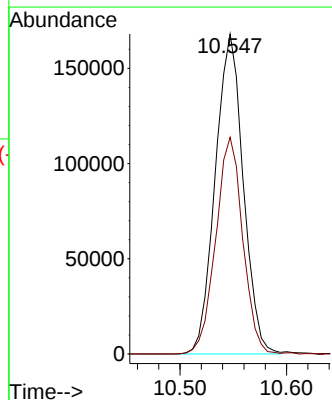
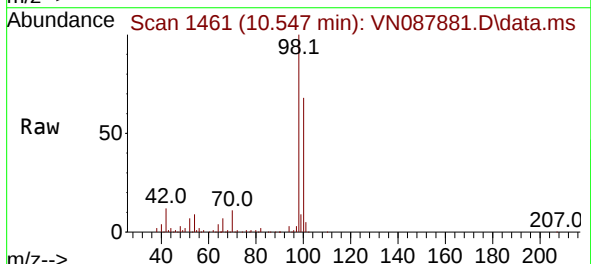
Instrument :
MSVOA_N
ClientSampleId :

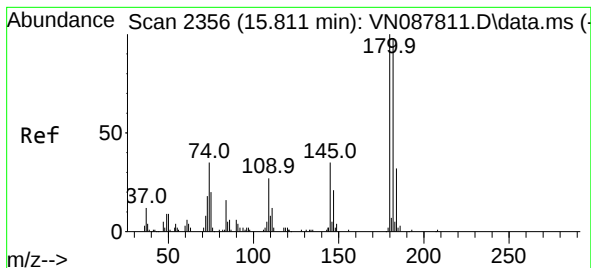
Tgt Ion: 95 Resp: 105313
Ion Ratio Lower Upper
95 100
174 76.4 55.4 83.0
176 73.3 51.5 77.3



#63
Toluene-d8
Concen: 28.296 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Tgt Ion: 98 Resp: 306407
Ion Ratio Lower Upper
98 100
100 65.3 50.6 76.0





#89

1,2,4-Trichlorobenzene

Concen: 0.262 ug/l

RT: 15.817 min Scan# 21

Delta R.T. 0.006 min

Lab File: VN087881.D

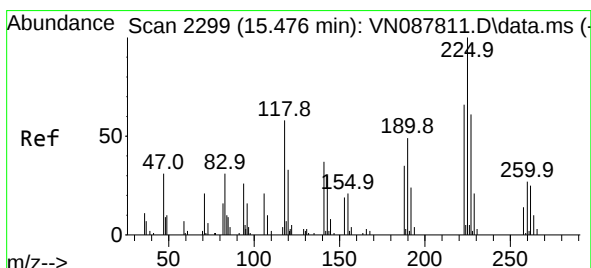
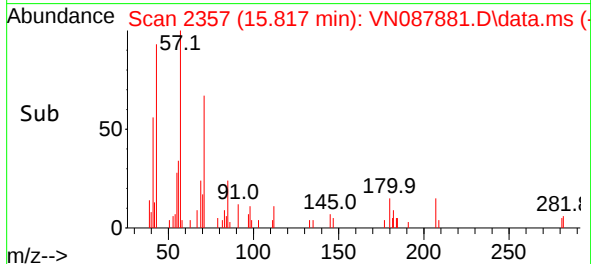
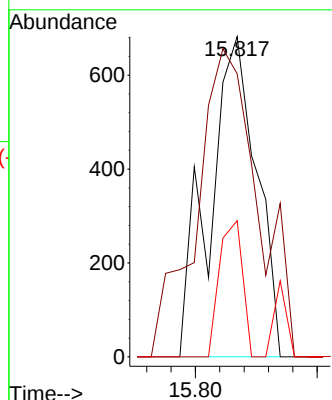
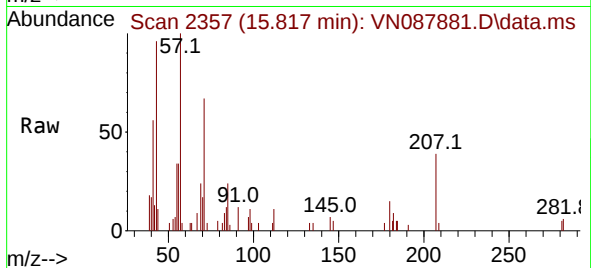
Acq: 17 Sep 2025 15:39

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	180	Resp:	919
Ion Ratio	Lower	Upper	
180	100		
182	111.6	74.6	111.8
145	20.8	27.4	41.0#



#90

Hexachlorobutadiene

Concen: 0.235 ug/l

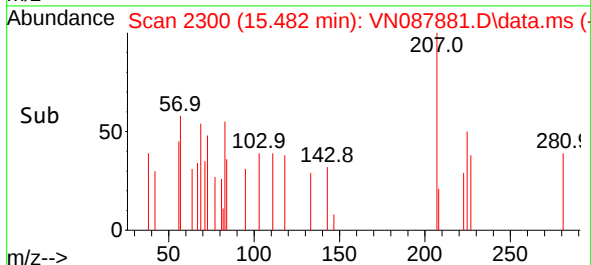
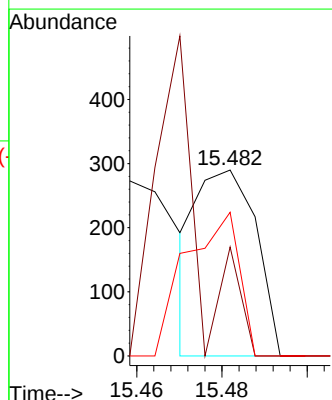
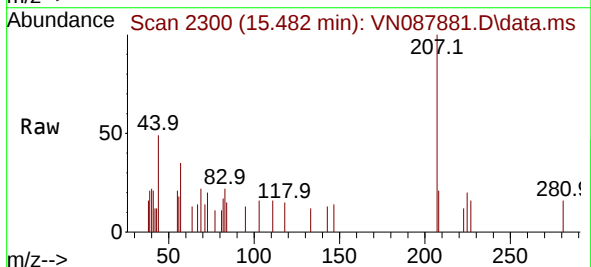
RT: 15.482 min Scan# 2300

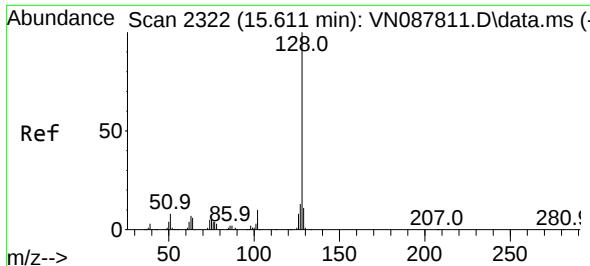
Delta R.T. 0.011 min

Lab File: VN087881.D

Acq: 17 Sep 2025 15:39

Tgt Ion:	225	Resp:	276
Ion Ratio	Lower	Upper	
225	100		
223	21.7	0.0	118.2
227	70.7	0.0	139.0

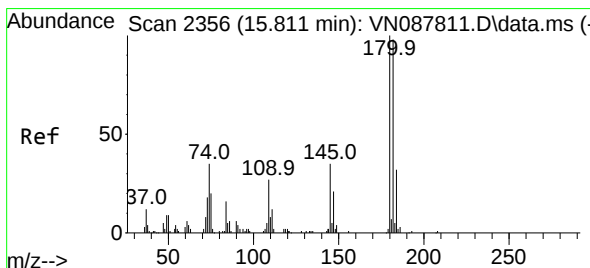
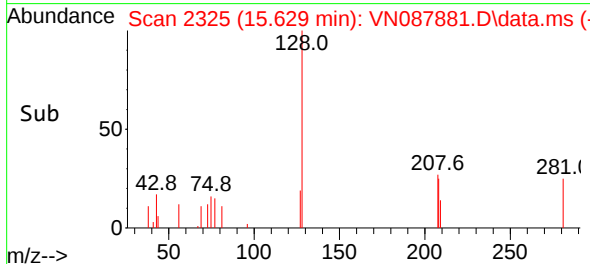
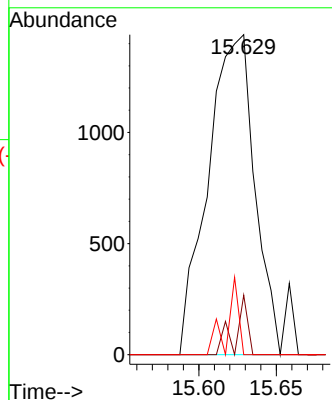
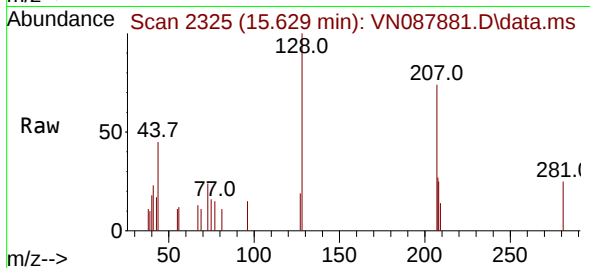




#91
Naphthalene
Concen: 0.234 ug/l
RT: 15.629 min Scan# 21
Delta R.T. 0.017 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 3025
Ion Ratio Lower Upper
128 100
127 3.1 10.2 15.4#
129 4.1 8.3 12.5#



#92
1,2,3-Trichlorobenzene
Concen: 0.262 ug/l
RT: 15.817 min Scan# 2357
Delta R.T. 0.006 min
Lab File: VN087881.D
Acq: 17 Sep 2025 15:39

Tgt Ion:180 Resp: 919
Ion Ratio Lower Upper
180 100
182 111.6 0.0 186.4
145 20.8 0.0 68.4

