

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087920.D
 Acq On : 22 Sep 2025 14:27
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Sep 23 04:54:06 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)

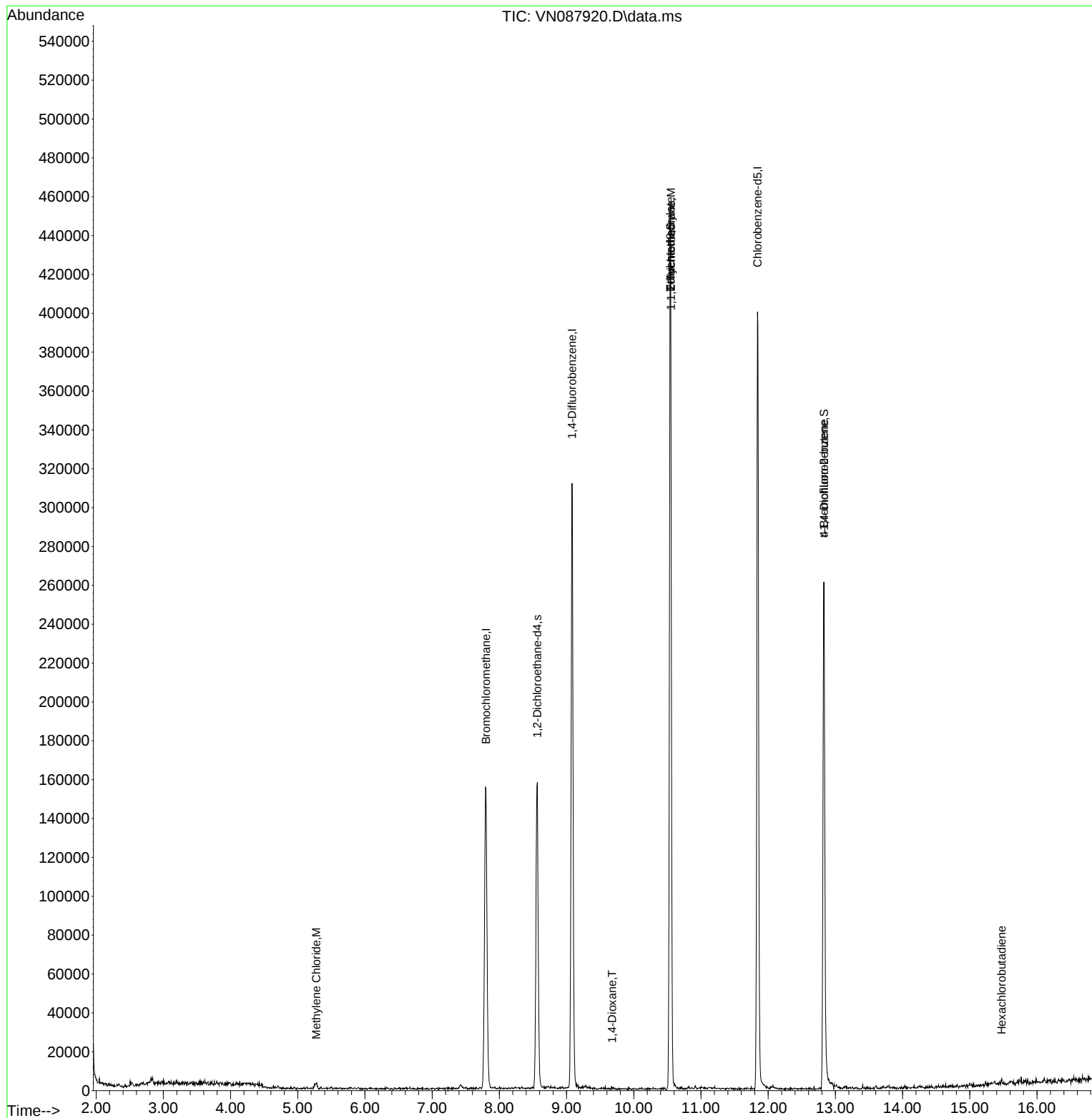
Internal Standards						
1) Bromochloromethane	7.800	128	54166	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	256151	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	235998	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.565	65	131263	28.369	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	94.567%
60) 4-Bromofluorobenzene	12.829	95	94897	25.008	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	83.367%
63) Toluene-d8	10.547	98	315760	28.770	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.900%
Target Compounds						
					Qvalue	
18) Methylene Chloride	5.277	84	887	0.239	ug/l #	54
45) 1,4-Dioxane	9.677	88	179	3.090	ug/l #	21
50) 1,1,2-Trichloroethane	10.553	97	12488	3.770	ug/l #	1
51) Ethyl methacrylate	10.547	69	1146	0.222	ug/l #	70
77) t-1,4-Dichloro-2-butene	12.829	75	52821	31.546	ug/l #	14
90) Hexachlorobutadiene	15.476	225	541	0.454	ug/l	59

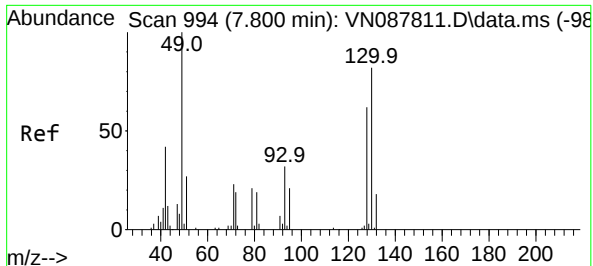
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration

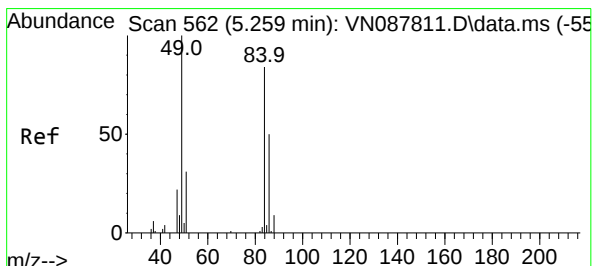
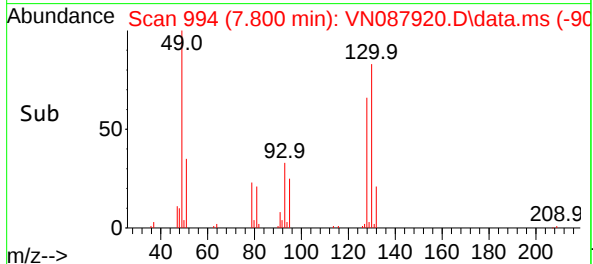
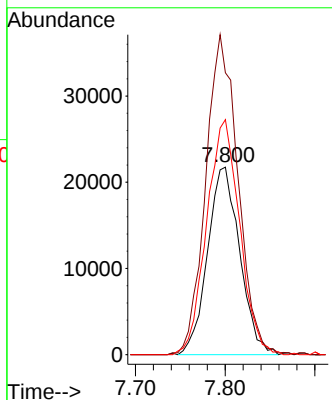
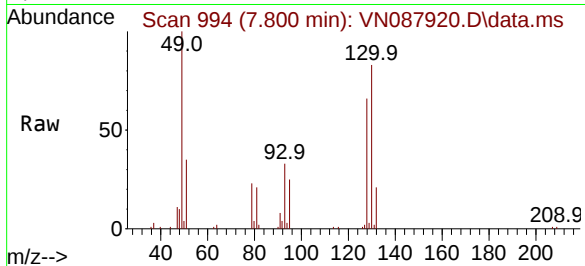




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

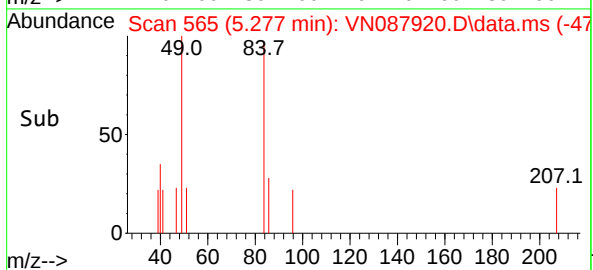
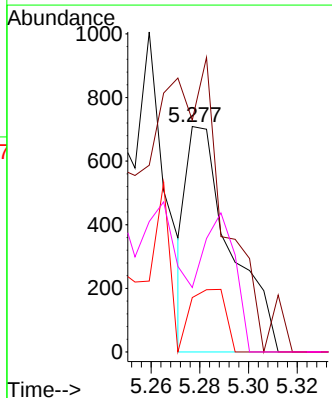
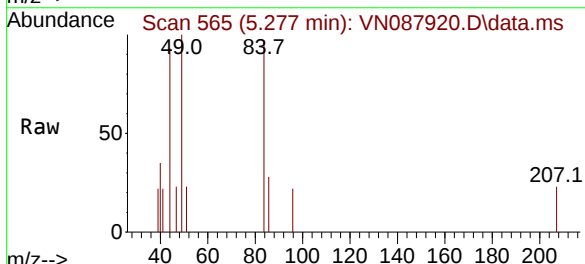
Instrument :
MSVOA_N
ClientSampleId :
IBLK

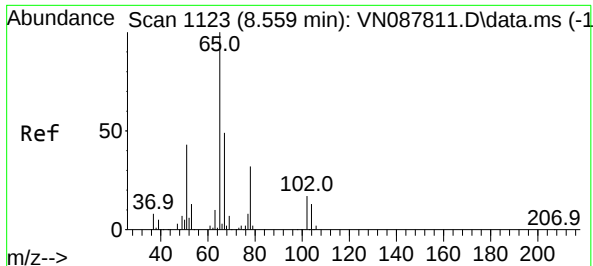
Tgt Ion:	128	Resp:	54166
Ion	Ratio	Lower	Upper
128	100		
49	170.9	0.0	464.3
130	128.5	0.0	300.5



#18
Methylene Chloride
Concen: 0.239 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.012 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

Tgt Ion:	84	Resp:	887
Ion	Ratio	Lower	Upper
84	100		
49	77.6	114.1	171.1#
51	24.1	30.2	45.4#
86	28.6	50.7	76.1#





#27

1,2-Dichloroethane-d4

Concen: 28.369 ug/l

RT: 8.565 min Scan# 1123

Delta R.T. 0.006 min

Lab File: VN087920.D

Acq: 22 Sep 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

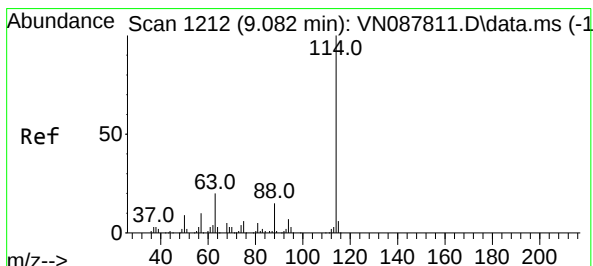
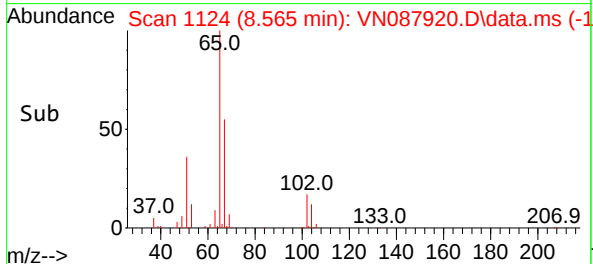
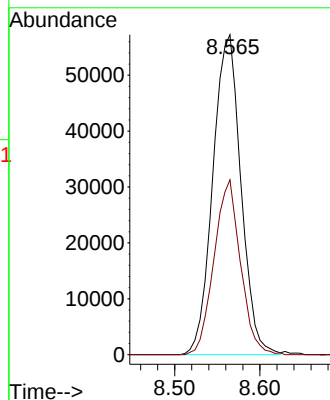
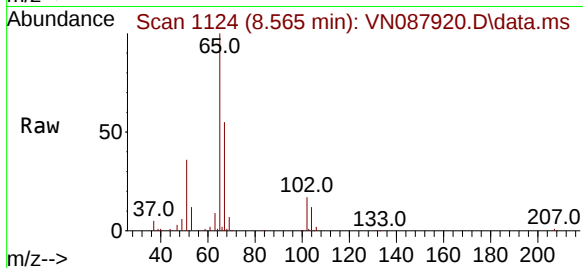
IBLK

Tgt Ion: 65 Resp: 131263

Ion Ratio Lower Upper

65 100

67 51.4 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: VN087920.D

Acq: 22 Sep 2025 14:27

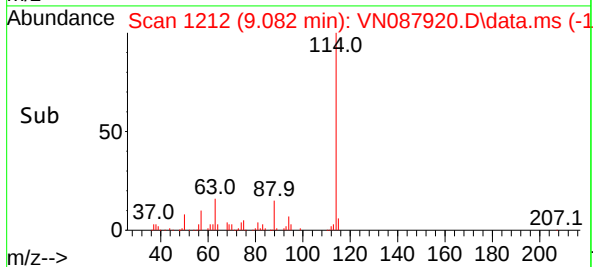
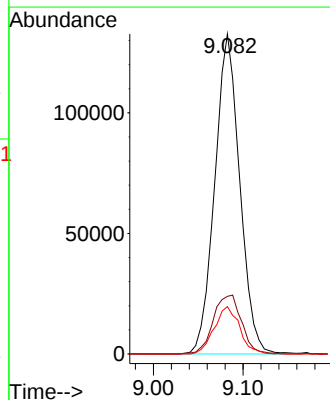
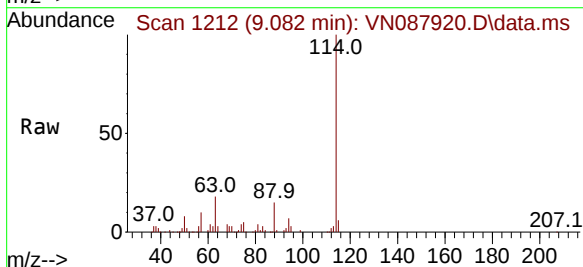
Tgt Ion: 114 Resp: 256151

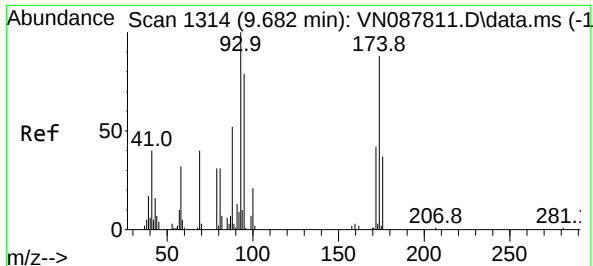
Ion Ratio Lower Upper

114 100

63 20.8 18.3 27.5

88 15.0 12.4 18.6





#45

1,4-Dioxane

Concen: 3.090 ug/l

RT: 9.677 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087920.D

Acq: 22 Sep 2025 14:27

Instrument :

MSVOA_N

ClientSampleId :

IBLK

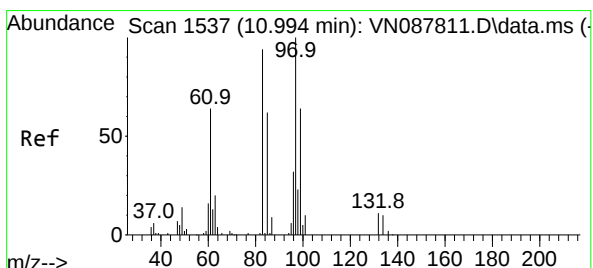
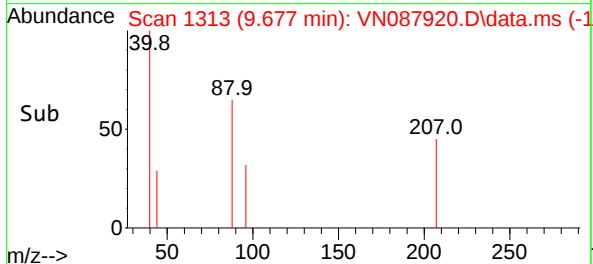
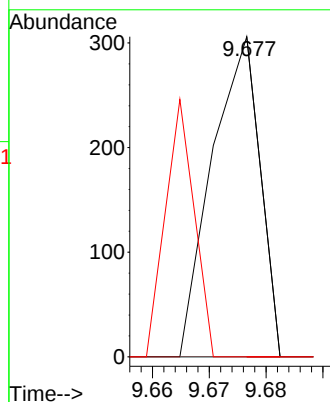
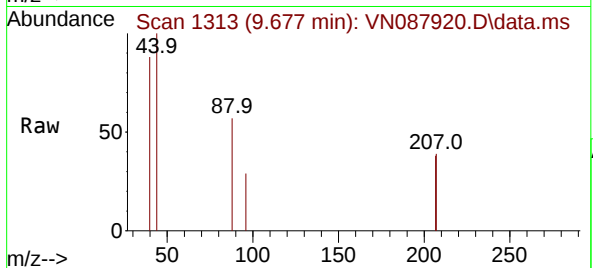
Tgt Ion: 88 Resp: 179

Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 0.0 60.5 90.7#



#50

1,1,2-Trichloroethane

Concen: 3.770 ug/l

RT: 10.553 min Scan# 1462

Delta R.T. -0.441 min

Lab File: VN087920.D

Acq: 22 Sep 2025 14:27

Tgt Ion: 97 Resp: 12488

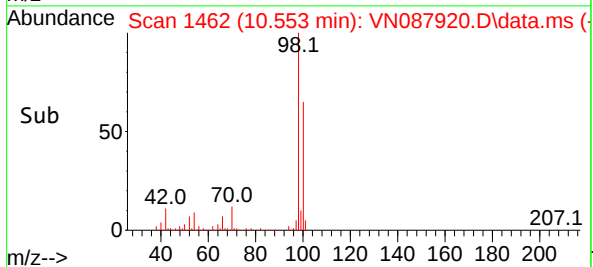
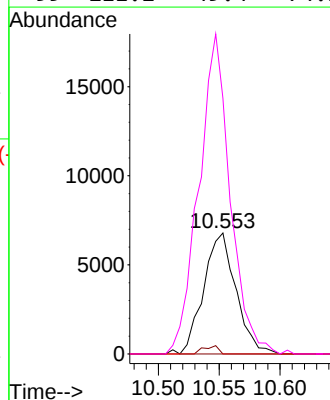
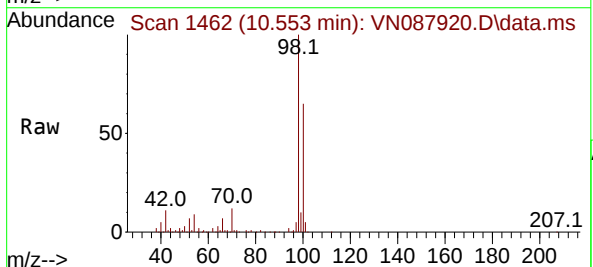
Ion Ratio Lower Upper

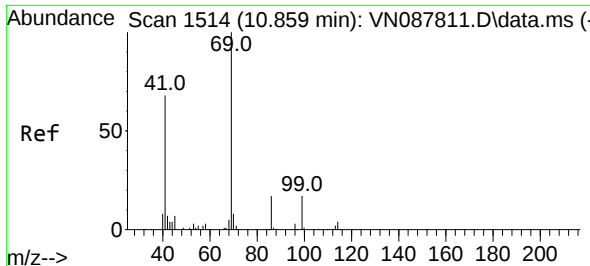
97 100

83 0.0 70.5 105.7#

85 0.0 46.3 69.5#

99 211.2 49.4 74.2#

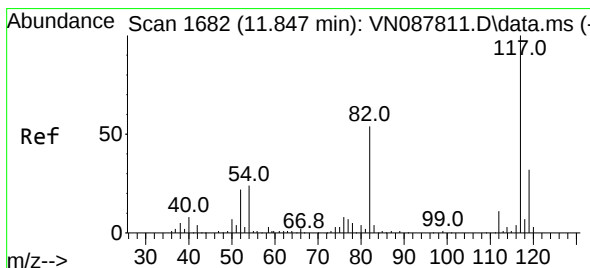
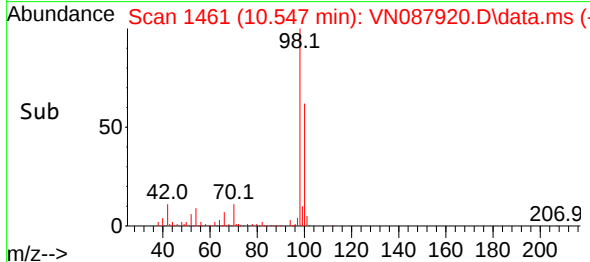
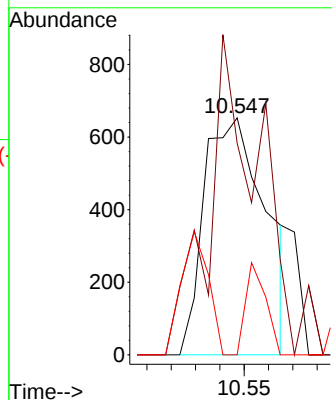
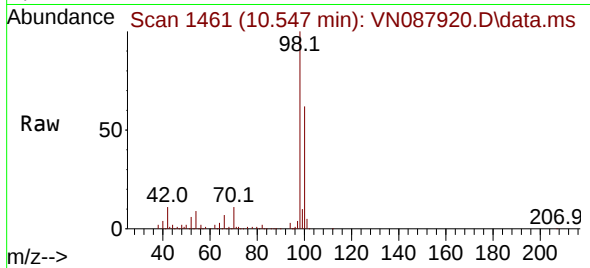




#51
Ethyl methacrylate
Concen: 0.222 ug/l
RT: 10.547 min Scan# 14
Delta R.T. -0.306 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

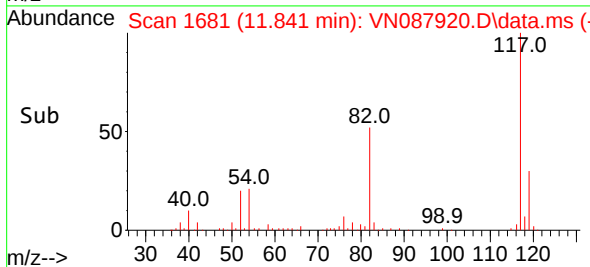
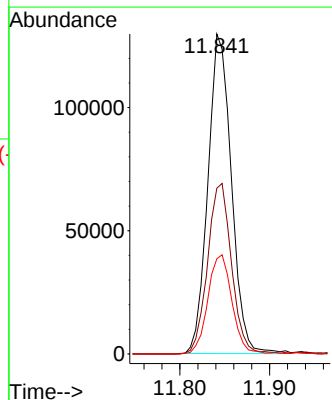
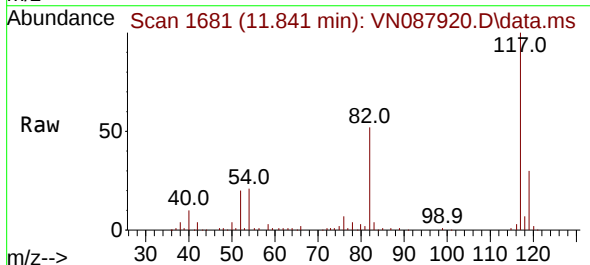
Instrument :
MSVOA_N
ClientSampleId :
IBLK

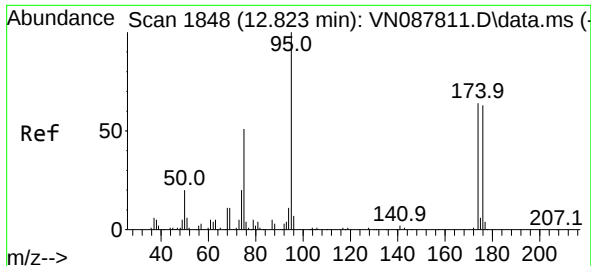
Tgt Ion: 69 Resp: 1146
Ion Ratio Lower Upper
69 100
41 60.6 33.7 101.0
39 0.0 20.3 60.9#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.000 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

Tgt Ion: 117 Resp: 235998
Ion Ratio Lower Upper
117 100
82 54.1 45.9 68.9
119 31.8 25.3 37.9

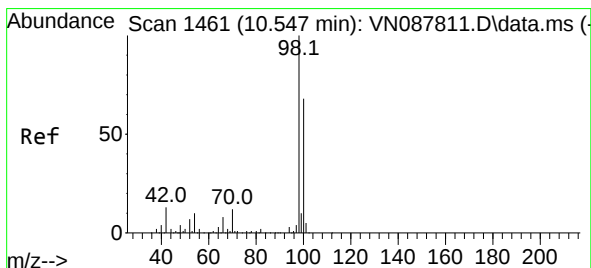
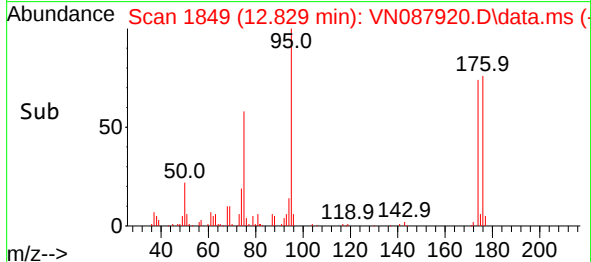
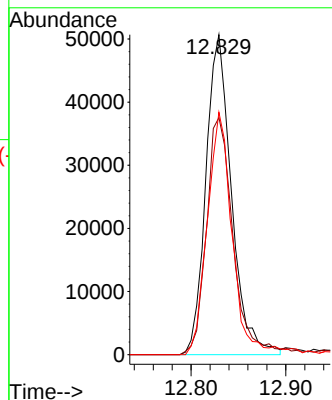
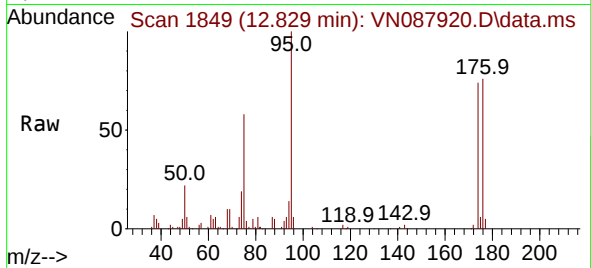




#60
4-Bromofluorobenzene
Concen: 25.008 ug/l
RT: 12.829 min Scan# 1848
Delta R.T. -0.000 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

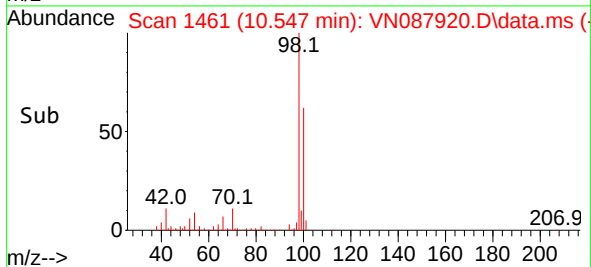
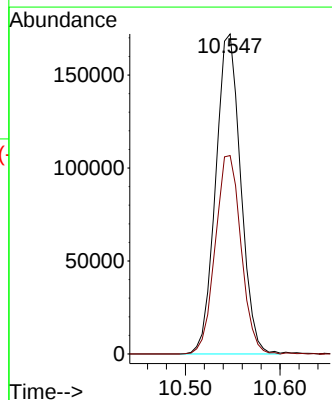
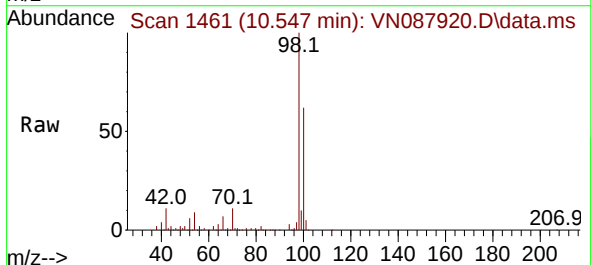
Instrument :
MSVOA_N
ClientSampleId :
IBLK

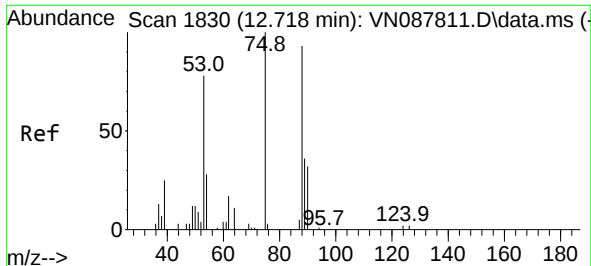
Tgt Ion: 95 Resp: 94897
Ion Ratio Lower Upper
95 100
174 76.6 55.4 83.0
176 72.5 51.5 77.3



#63
Toluene-d8
Concen: 28.770 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087920.D
Acq: 22 Sep 2025 14:27

Tgt Ion: 98 Resp: 315760
Ion Ratio Lower Upper
98 100
100 63.9 50.6 76.0

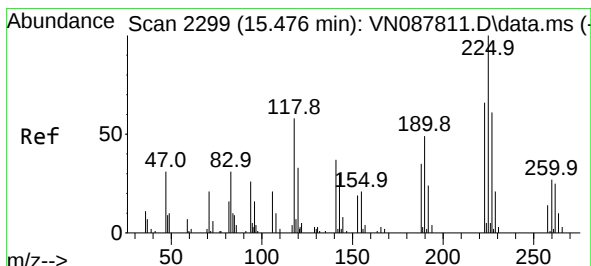
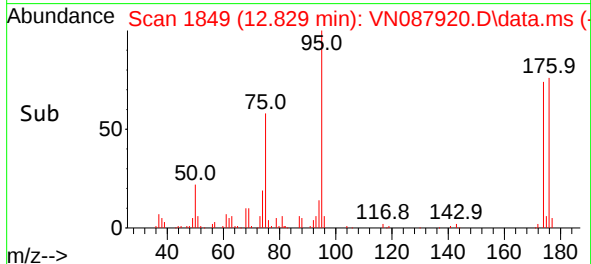
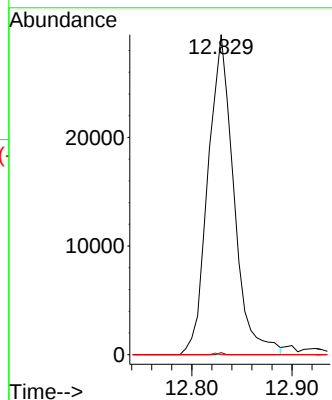
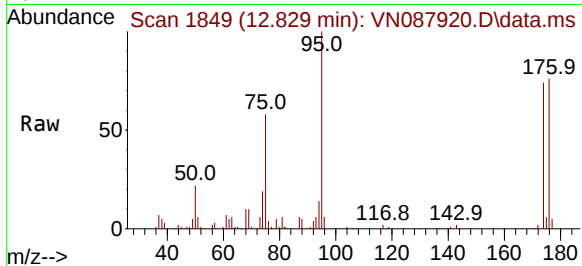




#77
 t-1,4-Dichloro-2-butene
 Concen: 31.546 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087920.D
 Acq: 22 Sep 2025 14:27

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Tgt Ion: 75 Resp: 52821
 Ion Ratio Lower Upper
 75 100
 53 0.6 45.3 135.9#
 89 0.0 18.8 56.3#



#90
 Hexachlorobutadiene
 Concen: 0.454 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. 0.006 min
 Lab File: VN087920.D
 Acq: 22 Sep 2025 14:27

Tgt Ion: 225 Resp: 541
 Ion Ratio Lower Upper
 225 100
 223 23.5 0.0 118.2
 227 40.7 0.0 139.0

