

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100825\
 Data File : VN088041.D
 Acq On : 08 Oct 2025 15:20
 Operator : JC\MD
 Sample : IBLK
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 IBLK

Quant Time: Oct 09 02:56:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100825W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Oct 09 02:36:32 2025
 Response via : Initial Calibration

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

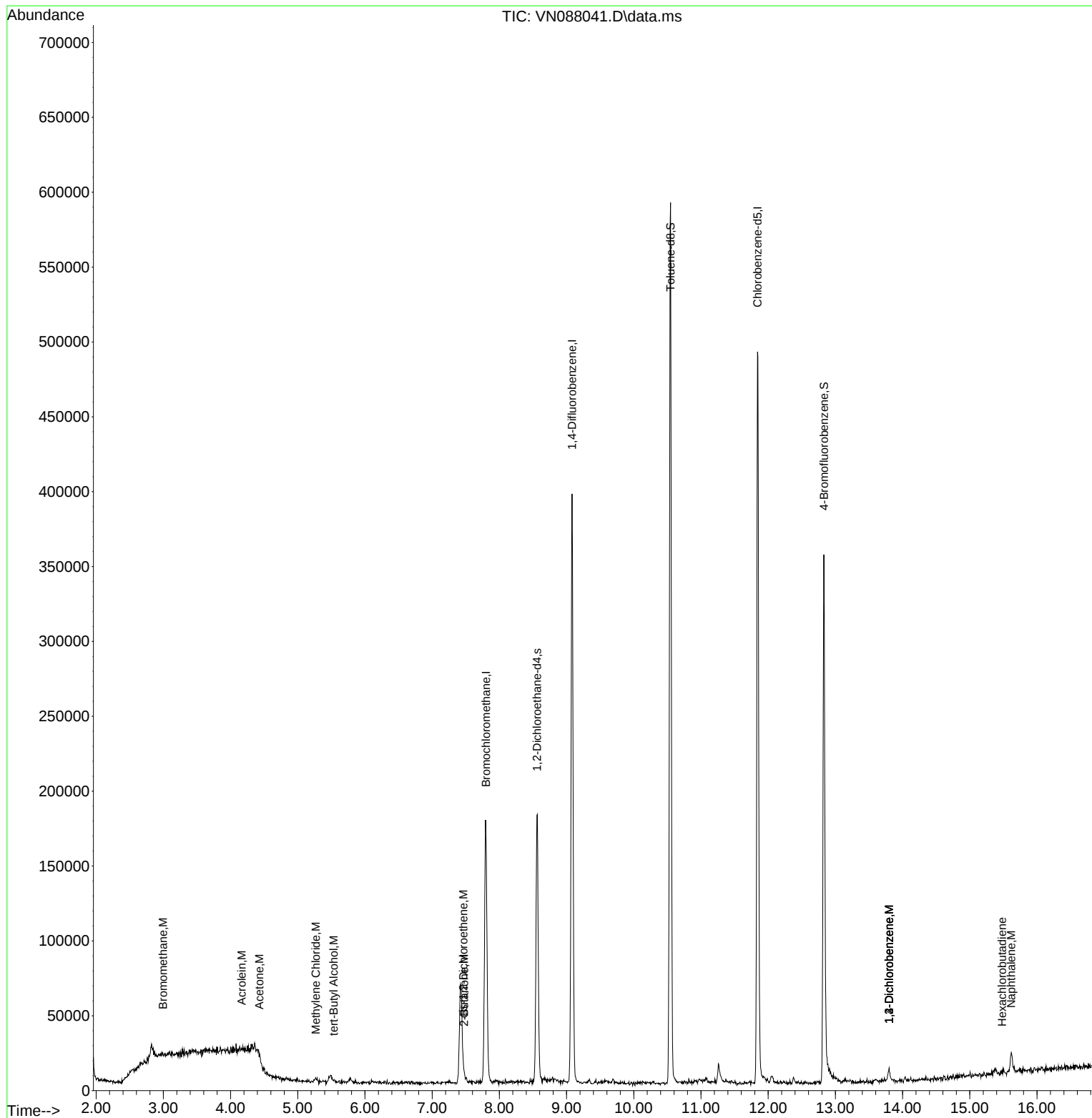
Internal Standards						
1) Bromochloromethane	7.800	128	62703	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	342626	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	290192	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	146749	30.056	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.200%
60) 4-Bromofluorobenzene	12.829	95	142385	29.763	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	99.200%
63) Toluene-d8	10.547	98	407060	31.484	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	104.933%
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	908	0.398	ug/l	94
13) Acrolein	4.165	56	292	0.352	ug/l #	35
15) Acetone	4.430	58	788	1.040	ug/l #	30
18) Methylene Chloride	5.271	84	1665	0.397	ug/l #	47
22) cis-1,2-Dichloroethene	7.465	96	2025	0.424	ug/l #	47
23) tert-Butyl Alcohol	5.536	59	521	0.502	ug/l #	100
30) 2-Butanone	7.477	43	961	0.265	ug/l #	60
83) 1,3-Dichlorobenzene	13.800	146	3562	0.460	ug/l	85
84) 1,4-Dichlorobenzene	13.800	146	3562	0.446	ug/l	84
87) 1,2-Dichlorobenzene	13.800	146	3562	0.468	ug/l	87
90) Hexachlorobutadiene	15.482	225	342	0.217	ug/l #	17
91) Naphthalene	15.617	128	13771	0.829	ug/l #	92

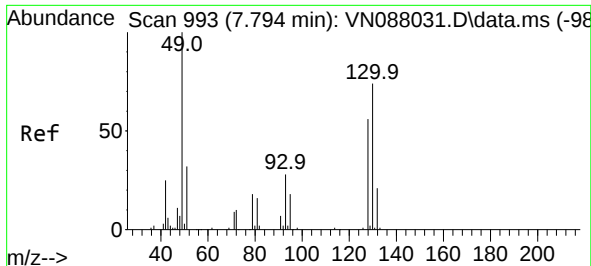
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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IBLK

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Thu Oct 09 02:36:32 2025
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.800 min Scan# 993

Delta R.T. 0.006 min

Lab File: VN088041.D

Acq: 08 Oct 2025 15:20

Instrument :

MSVOA_N

ClientSampleId :

IBLK

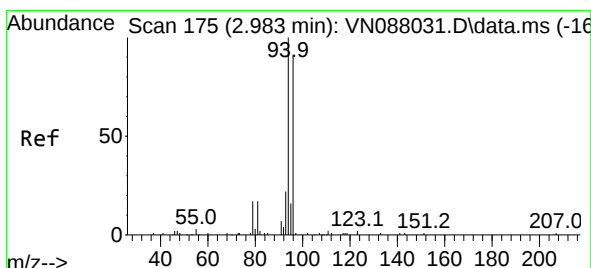
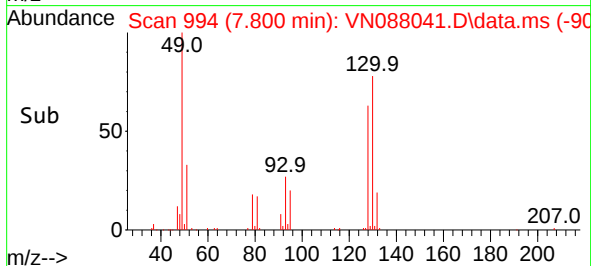
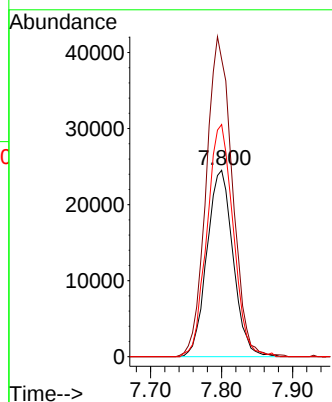
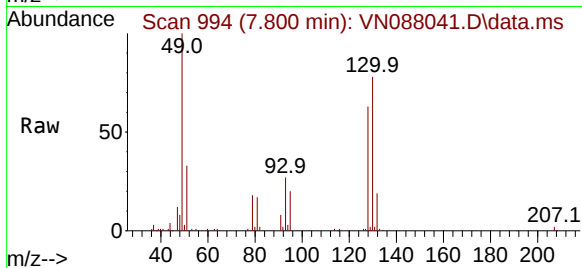
Tgt Ion:128 Resp: 62703

Ion Ratio Lower Upper

128 100

49 171.6 0.0 439.8

130 125.0 0.0 325.8



#5

Bromomethane

Concen: 0.398 ug/l

RT: 2.995 min Scan# 177

Delta R.T. 0.012 min

Lab File: VN088041.D

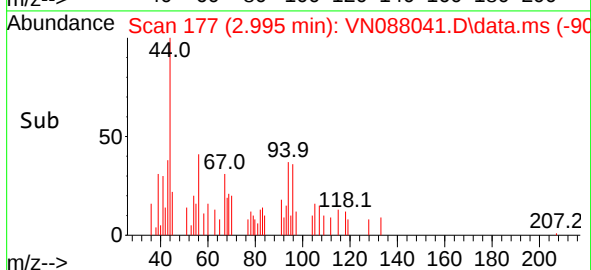
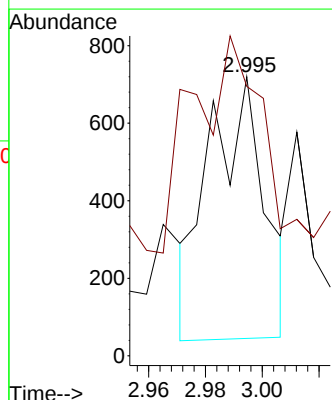
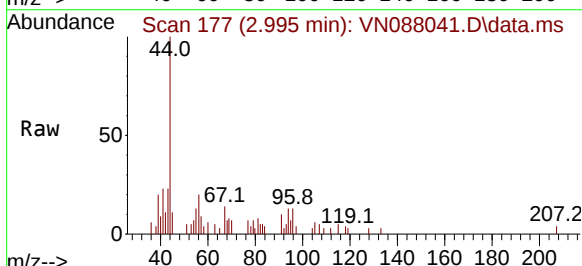
Acq: 08 Oct 2025 15:20

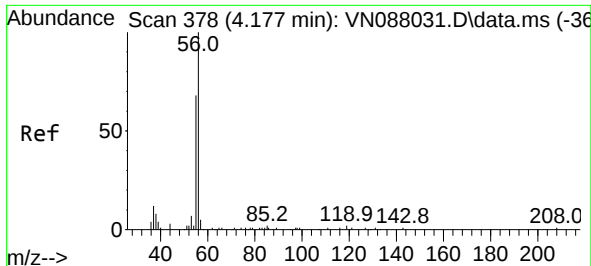
Tgt Ion: 94 Resp: 908

Ion Ratio Lower Upper

94 100

96 85.3 73.0 109.4

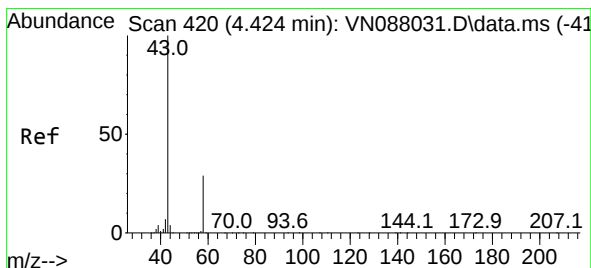
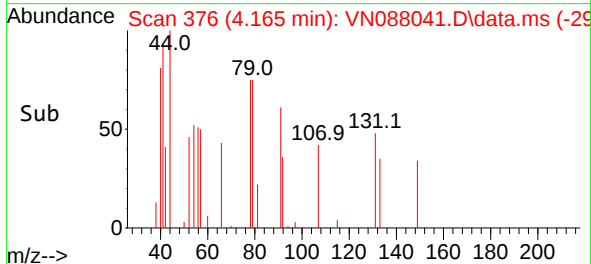
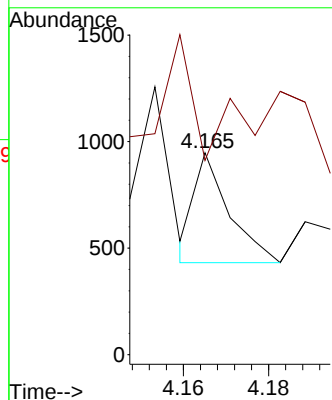
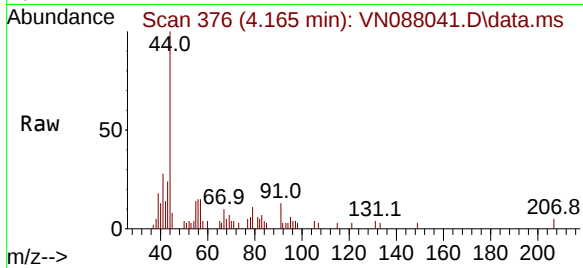




#13
Acrolein
Concen: 0.352 ug/l
RT: 4.165 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

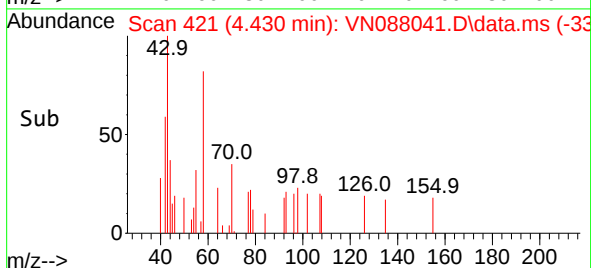
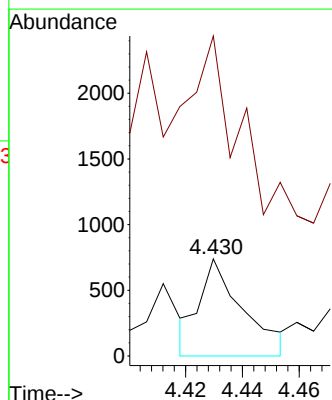
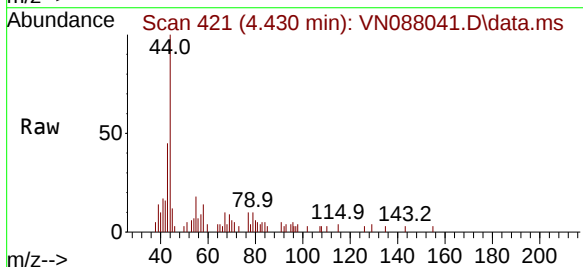
Instrument :
MSVOA_N
ClientSampleId :
IBLK

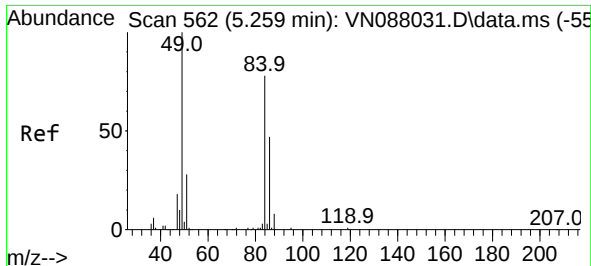
Tgt Ion: 56 Resp: 292
Ion Ratio Lower Upper
56 100
55 49.3 0.3 0.5#



#15
Acetone
Concen: 1.040 ug/l
RT: 4.430 min Scan# 421
Delta R.T. 0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion: 58 Resp: 788
Ion Ratio Lower Upper
58 100
43 200.0 282.6 424.0#

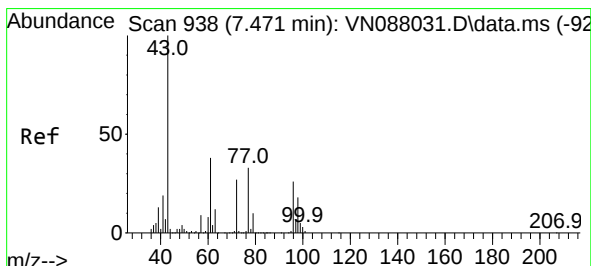
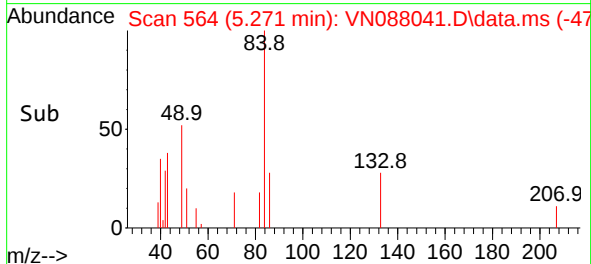
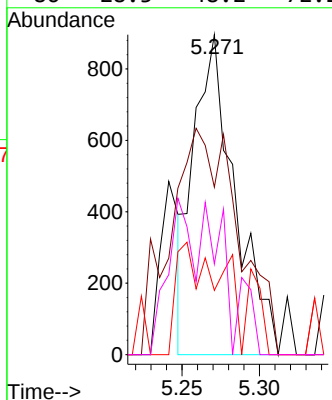
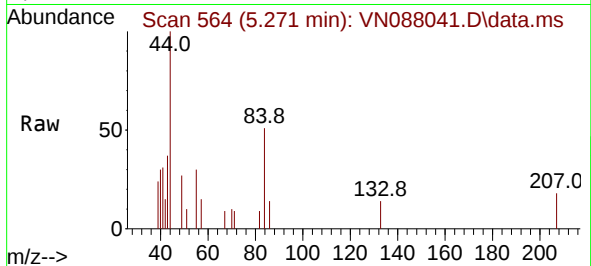




#18
Methylene Chloride
Concen: 0.397 ug/l
RT: 5.271 min Scan# 50
Delta R.T. 0.012 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

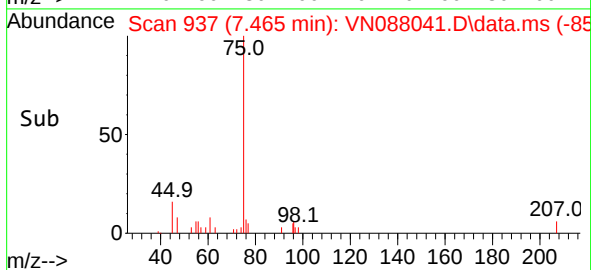
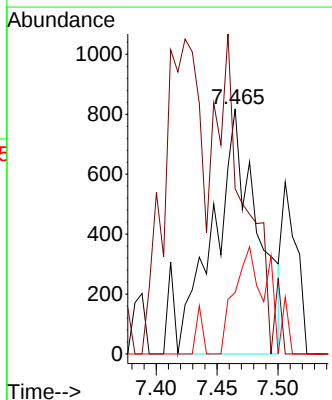
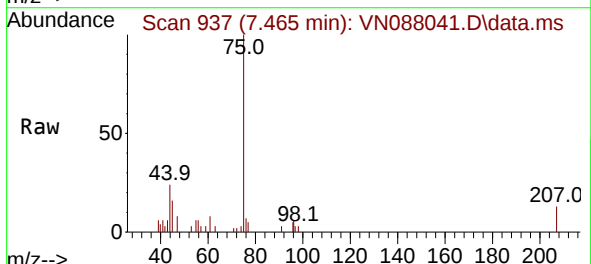
Instrument :
MSVOA_N
ClientSampleId :
IBLK

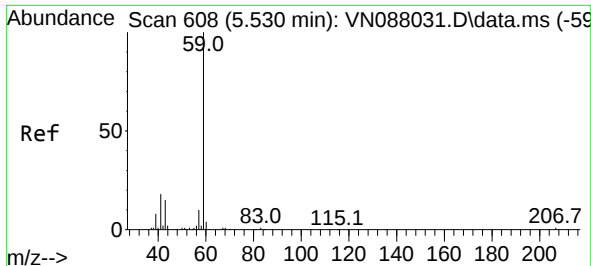
Tgt Ion:	84	Resp:	1665
Ion	Ratio	Lower	Upper
84	100		
49	52.3	102.6	153.8#
51	20.1	28.6	42.8#
86	28.3	48.2	72.2#



#22
cis-1,2-Dichloroethene
Concen: 0.424 ug/l
RT: 7.465 min Scan# 937
Delta R.T. -0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion:	96	Resp:	2025
Ion	Ratio	Lower	Upper
96	100		
61	79.5	117.0	175.6#
98	25.0	52.6	79.0#

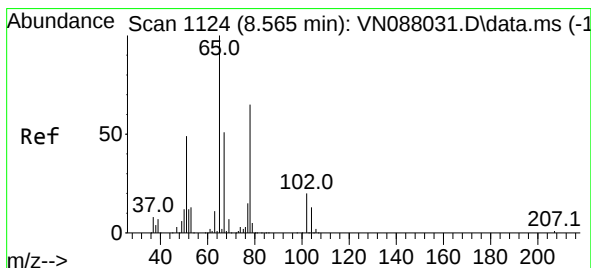
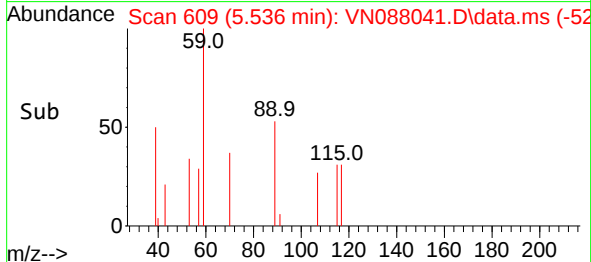
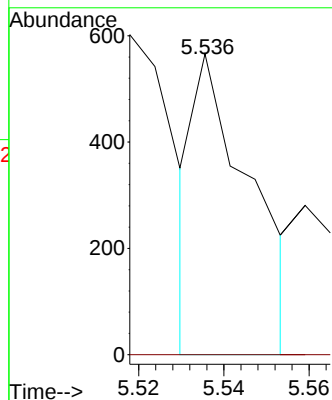
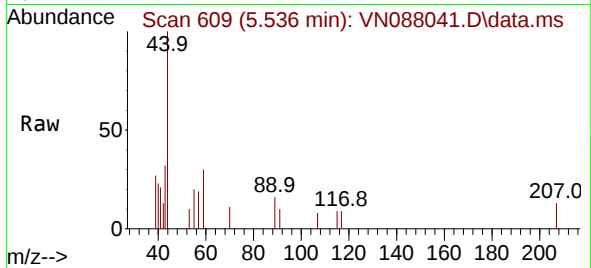




#23
tert-Butyl Alcohol
Concen: 0.502 ug/l
RT: 5.536 min Scan# 608
Delta R.T. 0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

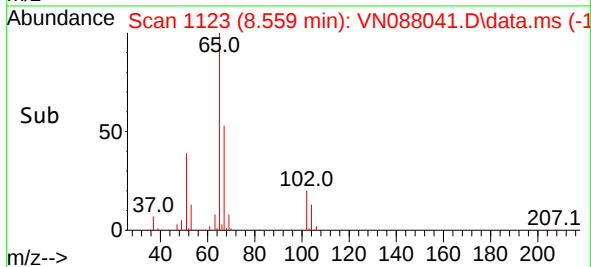
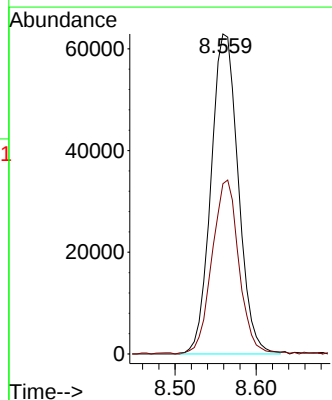
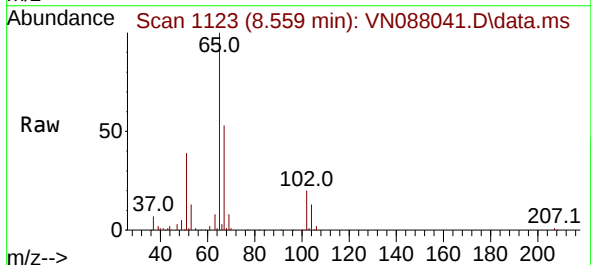
Instrument :
MSVOA_N
ClientSampleId :
IBLK

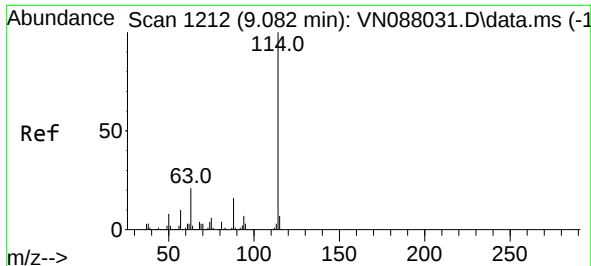
Tgt Ion: 59 Resp: 521
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 30.056 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion: 65 Resp: 146749
Ion Ratio Lower Upper
65 100
67 53.7 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.082 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088041.D

Acq: 08 Oct 2025 15:20

Instrument :

MSVOA_N

ClientSampleId :

IBLK

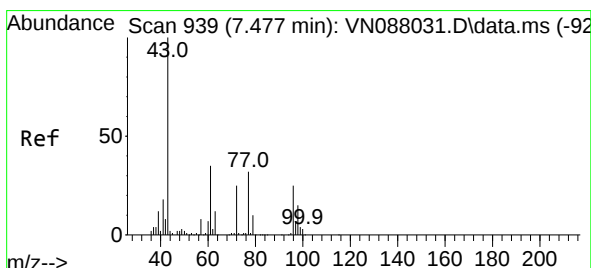
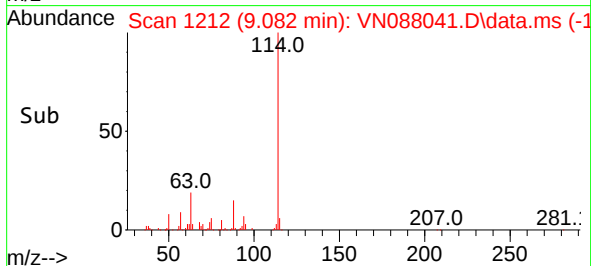
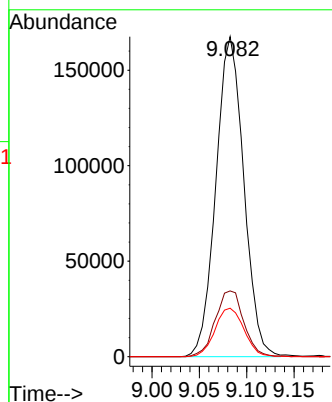
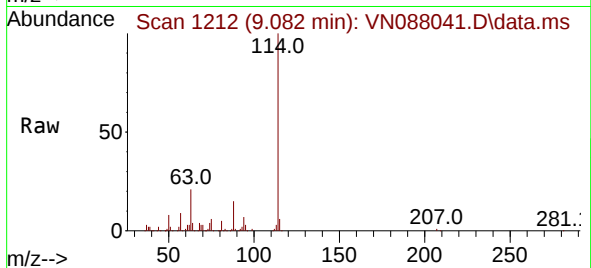
Tgt Ion:114 Resp: 342626

Ion Ratio Lower Upper

114 100

63 21.0 16.6 25.0

88 15.8 12.6 18.8



#30

2-Butanone

Concen: 0.265 ug/l

RT: 7.477 min Scan# 939

Delta R.T. 0.000 min

Lab File: VN088041.D

Acq: 08 Oct 2025 15:20

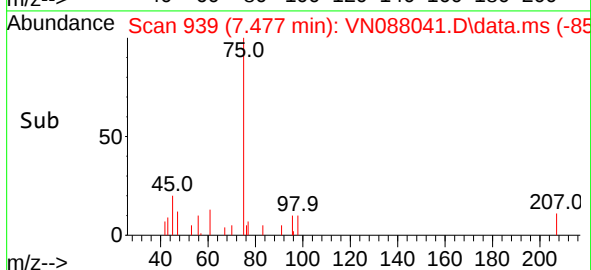
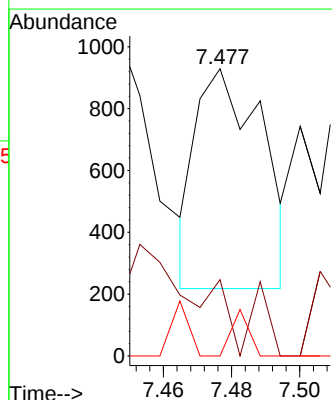
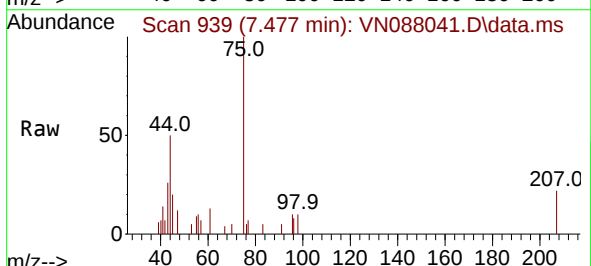
Tgt Ion: 43 Resp: 961

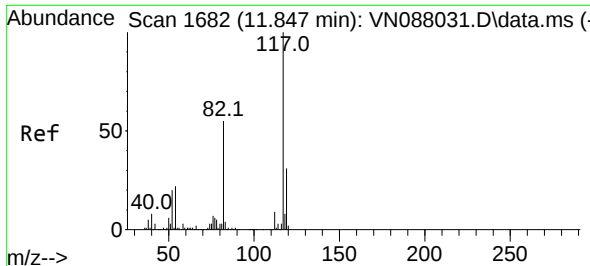
Ion Ratio Lower Upper

43 100

57 9.1 6.5 9.7

72 0.0 21.4 32.2#

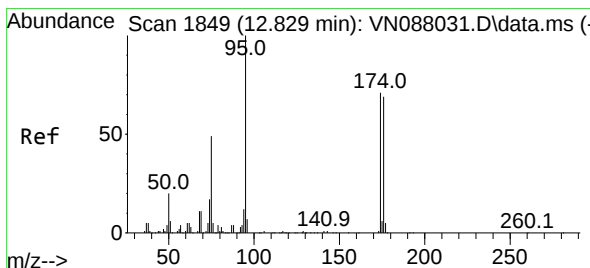
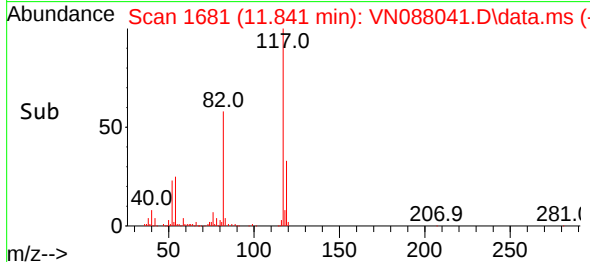
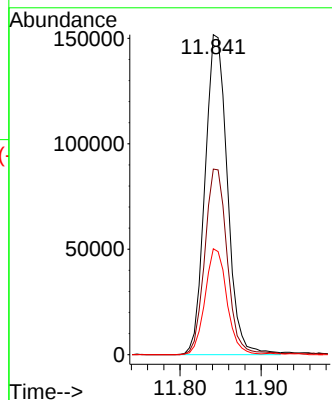
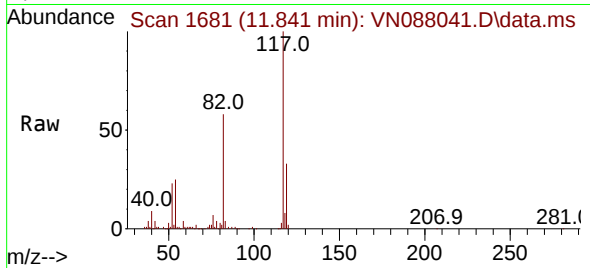




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

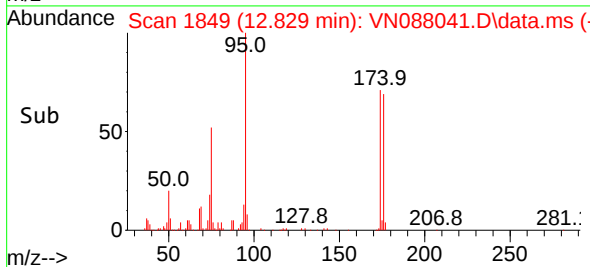
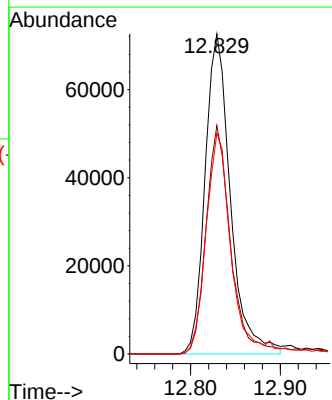
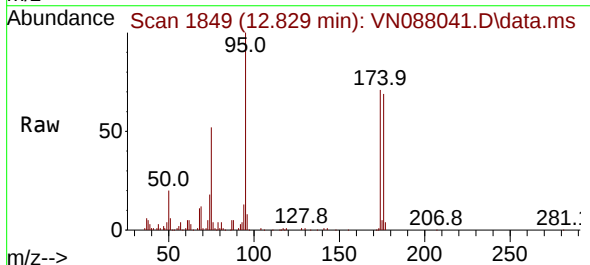
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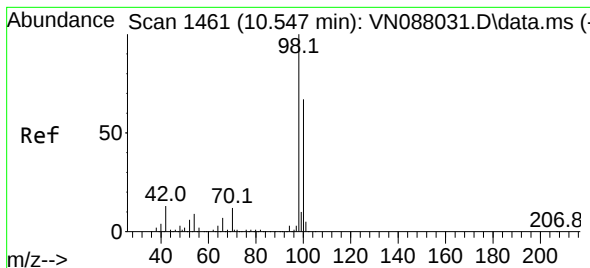
Tgt Ion:117 Resp: 290192
Ion Ratio Lower Upper
117 100
82 58.3 45.2 67.8
119 32.3 25.9 38.9



#60
4-Bromofluorobenzene
Concen: 29.763 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion: 95 Resp: 142385
Ion Ratio Lower Upper
95 100
174 69.3 57.4 86.0
176 66.2 57.0 85.4





#63

Toluene-d8

Concen: 31.484 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. 0.000 min

Lab File: VN088041.D

Acq: 08 Oct 2025 15:20

Instrument :

MSVOA_N

ClientSampleId :

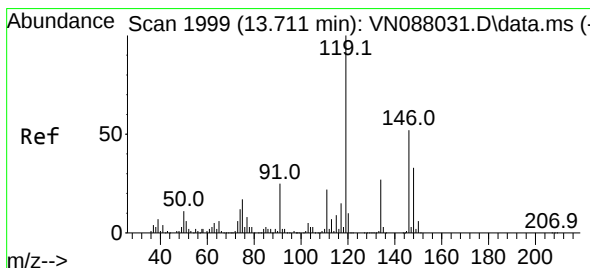
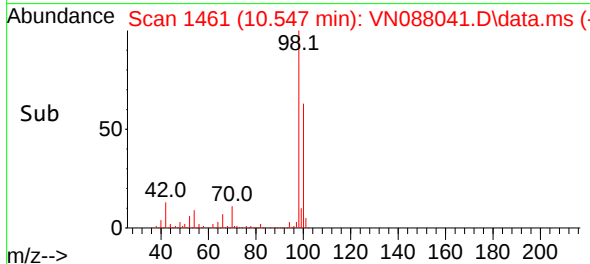
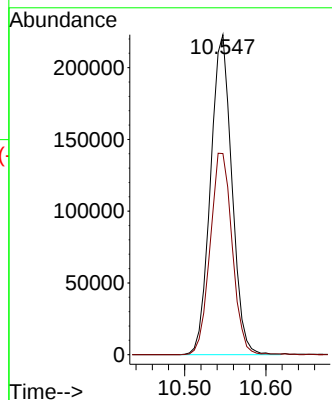
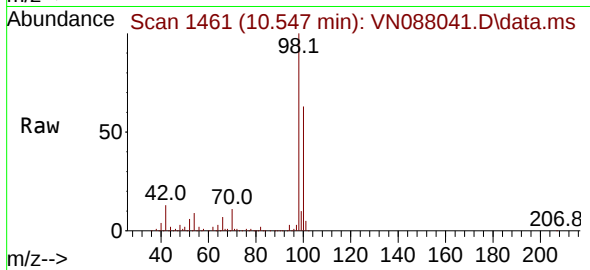
IBLK

Tgt Ion: 98 Resp: 407060

Ion Ratio Lower Upper

98 100

100 64.9 53.1 79.7



#83

1,3-Dichlorobenzene

Concen: 0.460 ug/l

RT: 13.800 min Scan# 2014

Delta R.T. 0.088 min

Lab File: VN088041.D

Acq: 08 Oct 2025 15:20

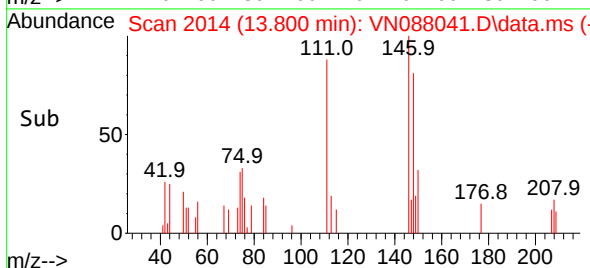
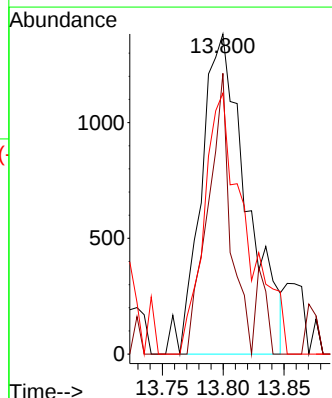
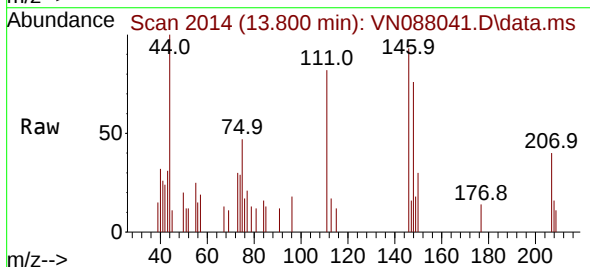
Tgt Ion:146 Resp: 3562

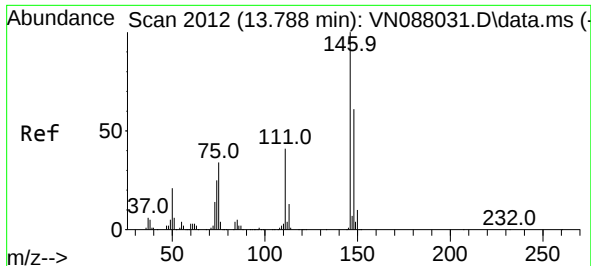
Ion Ratio Lower Upper

146 100

111 44.4 21.1 63.1

148 45.9 31.5 94.5

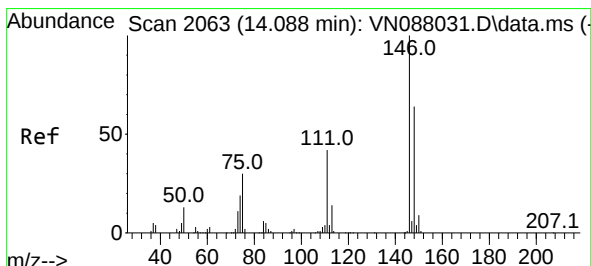
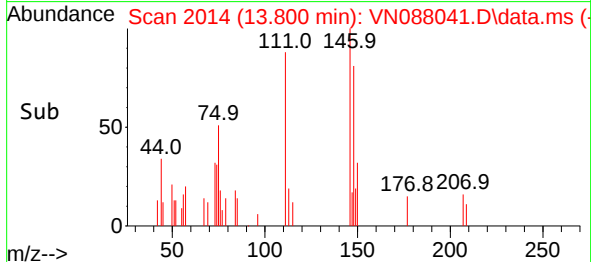
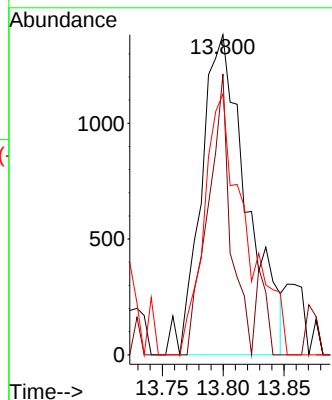
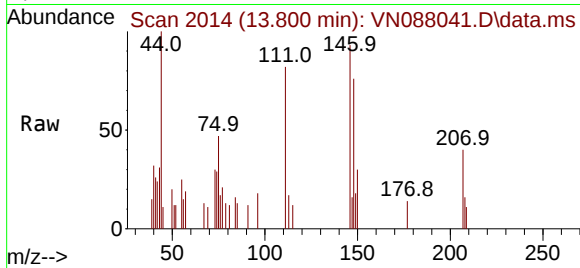




#84
1,4-Dichlorobenzene
Concen: 0.446 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. 0.012 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

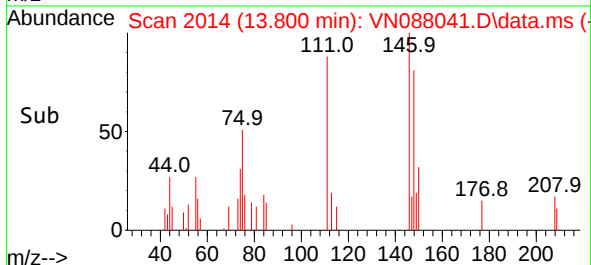
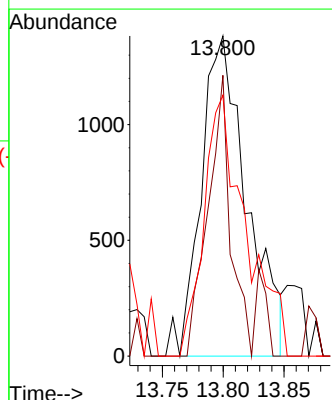
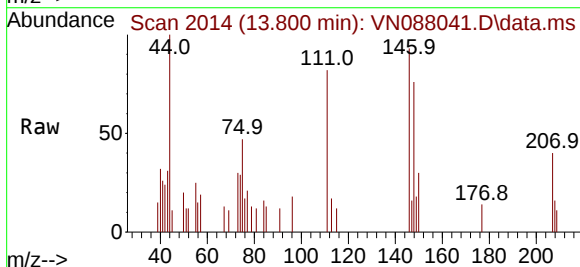
Instrument :
MSVOA_N
ClientSampleId :
IBLK

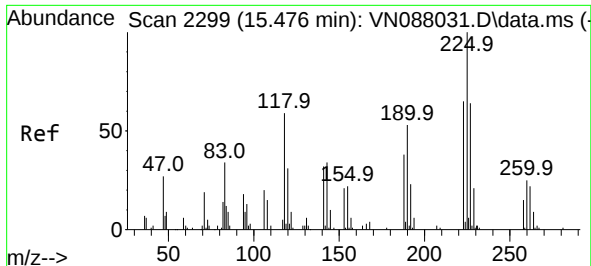
Tgt Ion:146 Resp: 3562
Ion Ratio Lower Upper
146 100
111 44.4 20.5 61.6
148 45.9 31.9 95.9



#87
1,2-Dichlorobenzene
Concen: 0.468 ug/l
RT: 13.800 min Scan# 2014
Delta R.T. -0.288 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion:146 Resp: 3562
Ion Ratio Lower Upper
146 100
111 44.4 22.3 66.8
148 45.9 31.4 94.3

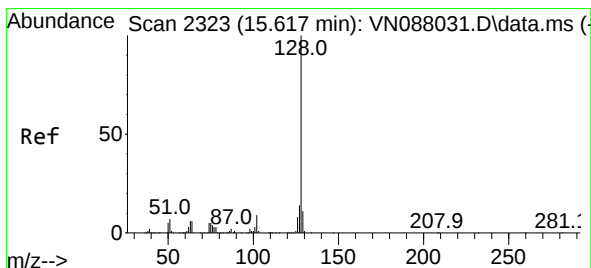
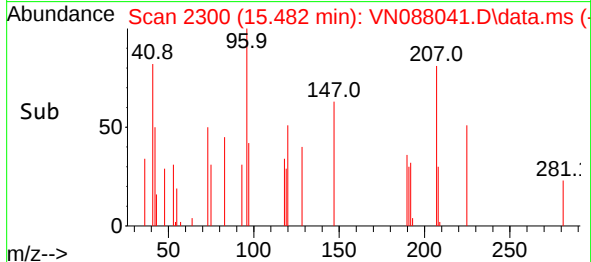
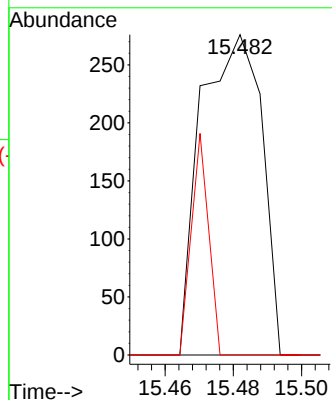
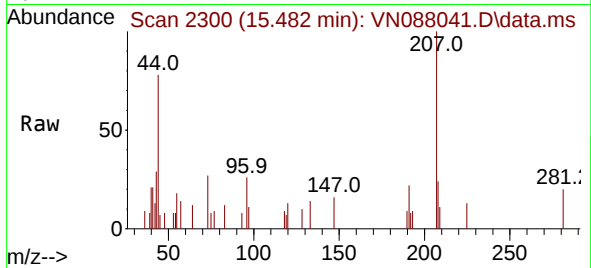




#90
Hexachlorobutadiene
Concen: 0.217 ug/l
RT: 15.482 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Instrument :
MSVOA_N
ClientSampleId :
IBLK

Tgt Ion:	225	Resp:	342
Ion Ratio	Lower	Upper	
225	100		
223	0.0	0.0	129.6
227	0.0	0.0	132.2



#91
Naphthalene
Concen: 0.829 ug/l
RT: 15.617 min Scan# 2323
Delta R.T. 0.000 min
Lab File: VN088041.D
Acq: 08 Oct 2025 15:20

Tgt Ion:	128	Resp:	13771
Ion Ratio	Lower	Upper	
128	100		
127	14.8	10.3	15.5
129	6.7	8.6	13.0

