

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
 Data File : VN088076.D
 Acq On : 20 Oct 2025 11:31
 Operator : JC\MD
 Sample : Q3385-01 5X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 21 05:37:17 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)

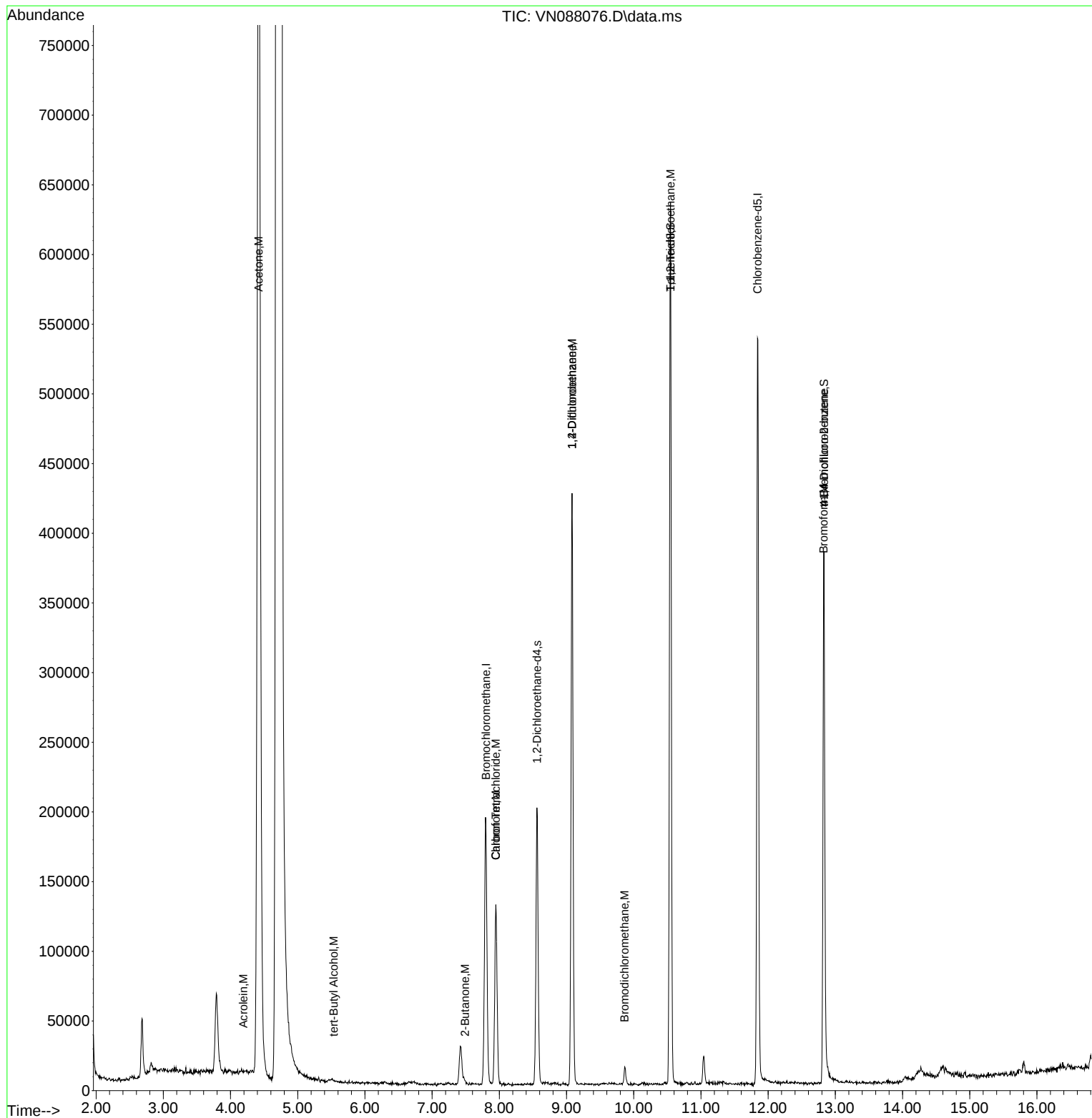
Internal Standards						
1) Bromochloromethane	7.800	128	63544	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	356820	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.841	117	313448	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	159806	32.297	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	107.667%
60) 4-Bromofluorobenzene	12.829	95	148887	28.813	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	96.033%
63) Toluene-d8	10.547	98	433757	31.059	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	103.533%
Target Compounds						
					Qvalue	
13) Acrolein	4.189	56	532	0.633	ug/l #	79
15) Acetone	4.418	58	587860	765.813	ug/l	95
23) tert-Butyl Alcohol	5.536	59	698	0.664	ug/l #	100
25) Chloroform	7.947	83	123897	16.068	ug/l	95
30) 2-Butanone	7.489	43	2727	0.723	ug/l #	76
33) Carbon Tetrachloride	7.947	117	1336	0.250	ug/l #	68
36) 1,2-Dichloroethane	9.083	62	15089	2.562	ug/l #	74
41) Bromodichloromethane	9.865	83	8427	1.333	ug/l	87
50) 1,1,2-Trichloroethane	10.547	97	14495	3.535	ug/l #	1
56) Bromoform	12.823	173	1098	0.331	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.829	75	80919	35.463	ug/l #	17

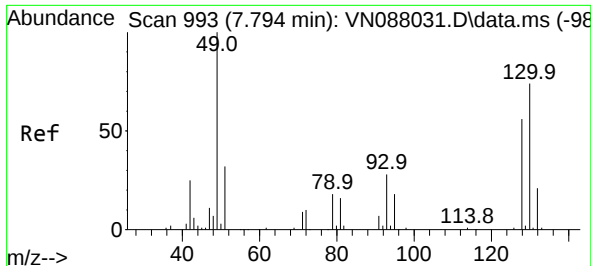
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102025\
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MSVOA_N
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Quant Time: Oct 21 05:37:17 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

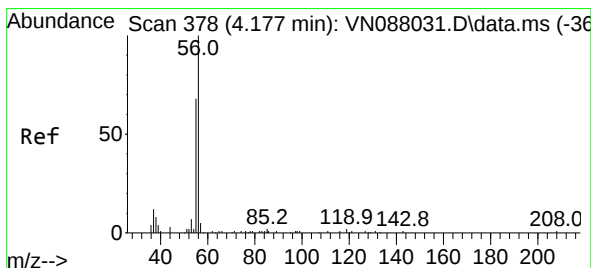
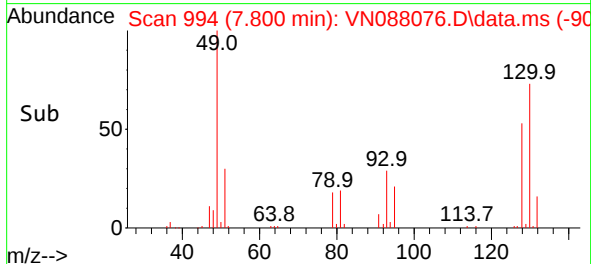
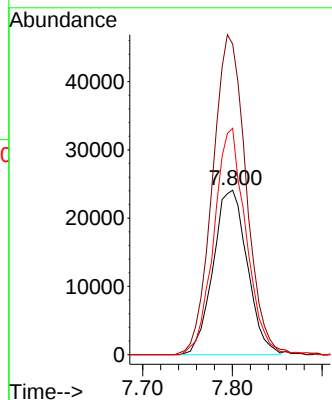
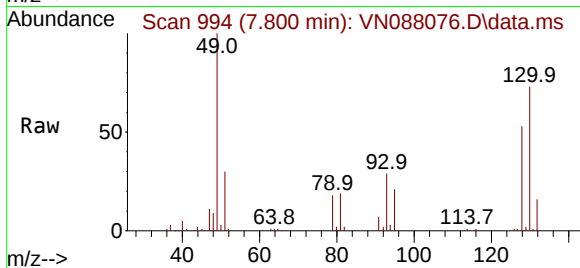




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

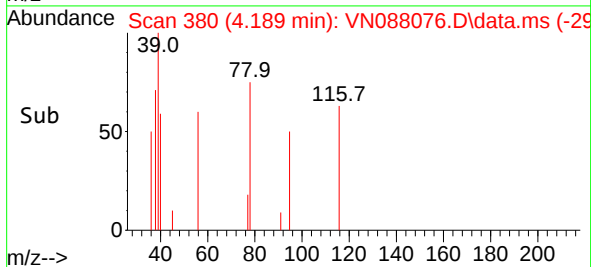
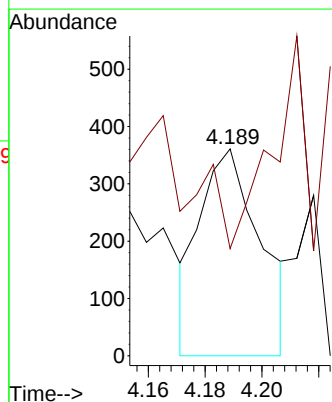
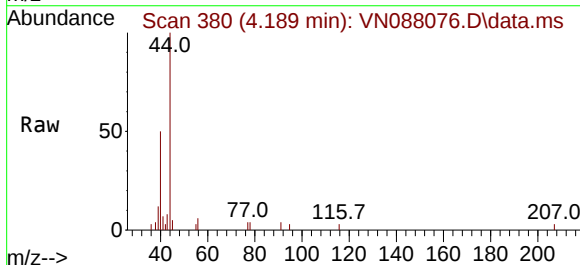
Instrument :
MSVOA_N
ClientSampleId :

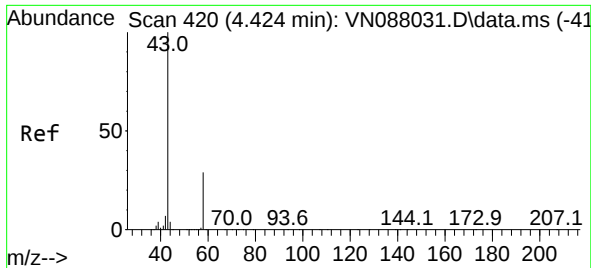
Tgt Ion:128 Resp: 63544
Ion Ratio Lower Upper
128 100
49 191.2 0.0 439.8
130 130.0 0.0 325.8



#13
Acrolein
Concen: 0.633 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

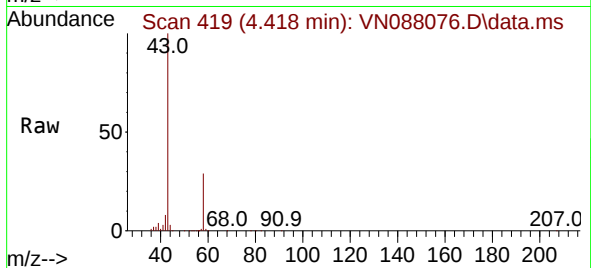
Tgt Ion: 56 Resp: 532
Ion Ratio Lower Upper
56 100
55 16.0 0.3 0.5#



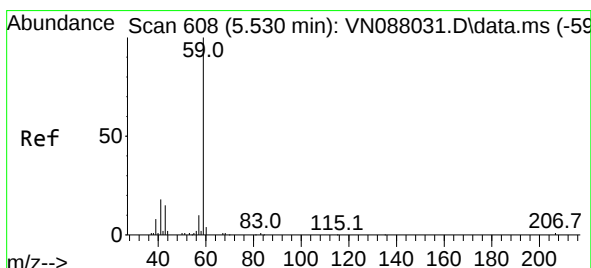
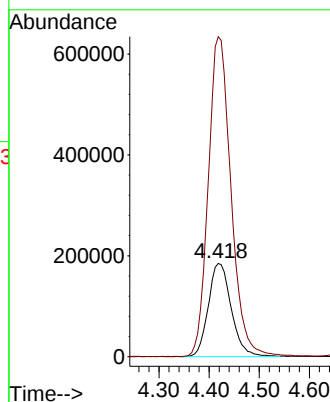
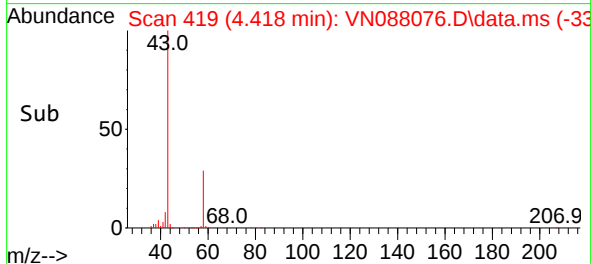


#15
Acetone
Concen: 765.813 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Instrument :
MSVOA_N
ClientSampleId :

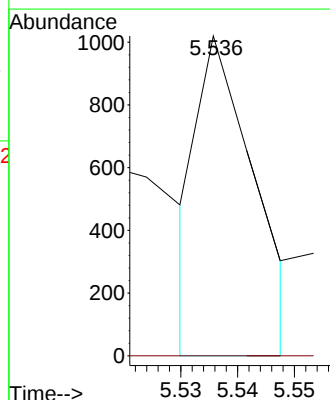
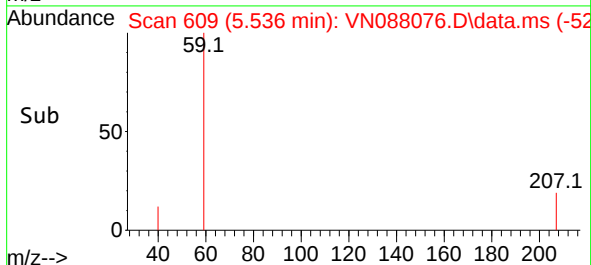
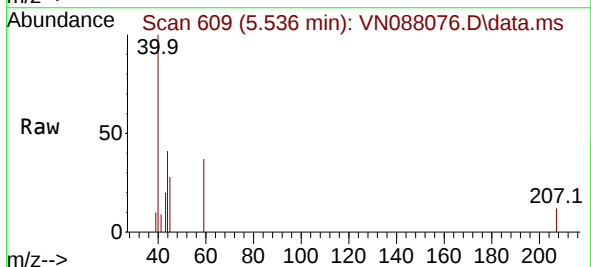


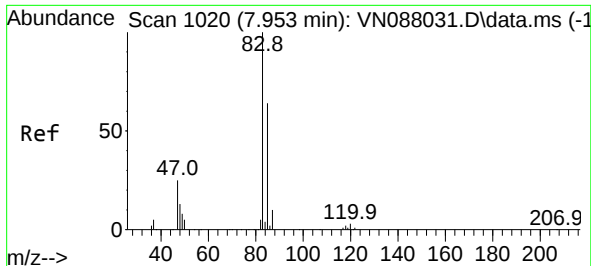
Tgt Ion: 58 Resp: 587860
Ion Ratio Lower Upper
58 100
43 342.8 282.6 424.0



#23
tert-Butyl Alcohol
Concen: 0.664 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 59 Resp: 698
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

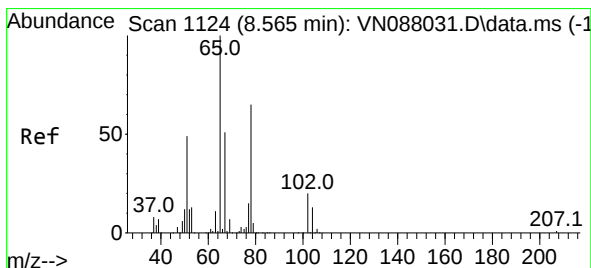
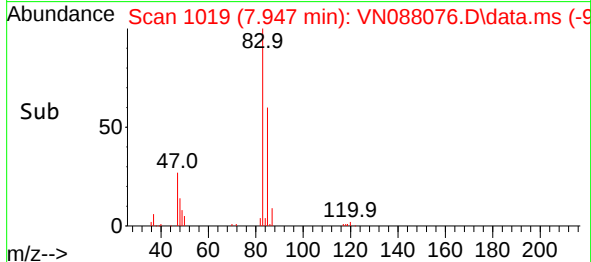
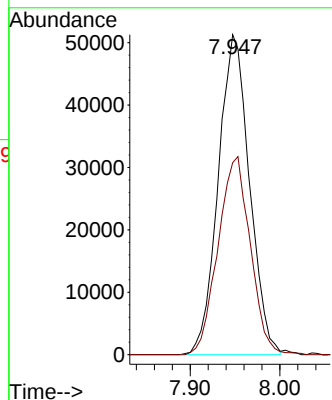
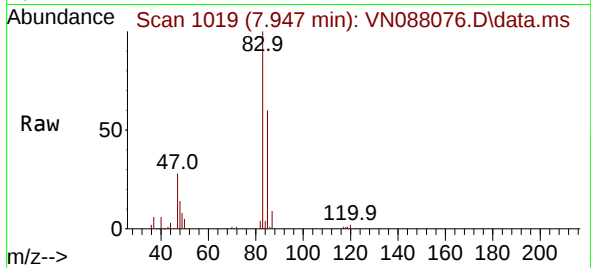




#25
Chloroform
Concen: 16.068 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

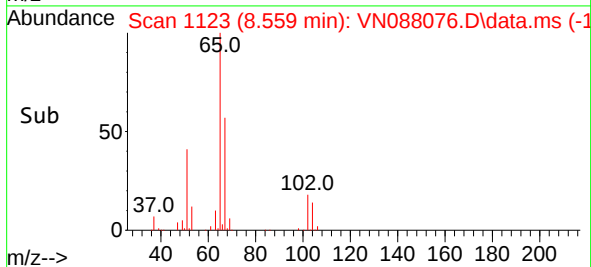
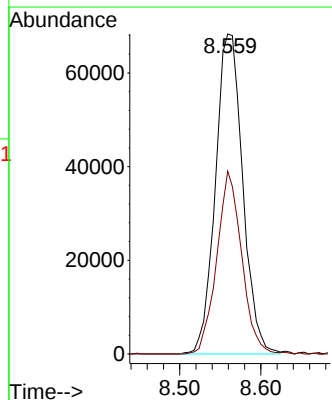
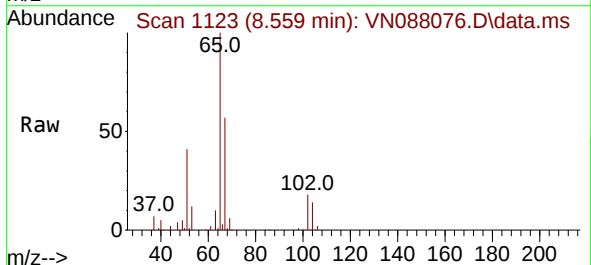
Instrument :
MSVOA_N
ClientSampleId :

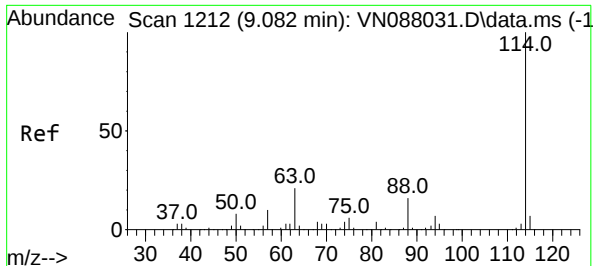
Tgt Ion: 83 Resp: 123897
Ion Ratio Lower Upper
83 100
85 60.0 50.9 76.3



#27
1,2-Dichloroethane-d4
Concen: 32.297 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion: 65 Resp: 159806
Ion Ratio Lower Upper
65 100
67 52.0 41.9 62.9





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN088076.D

Acq: 20 Oct 2025 11:31

Instrument :

MSVOA_N

ClientSampleId :

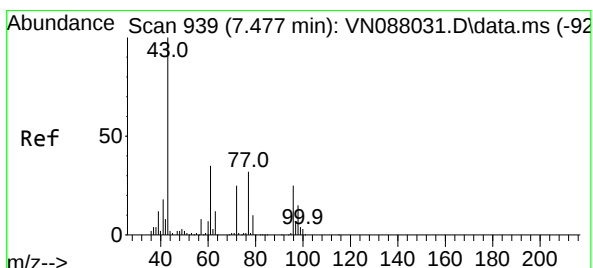
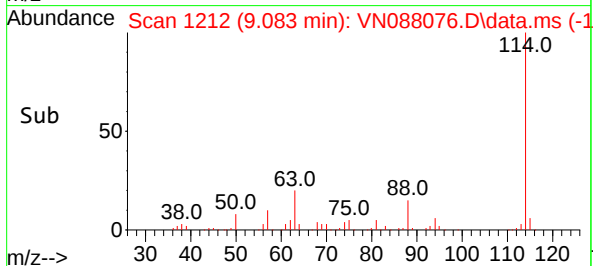
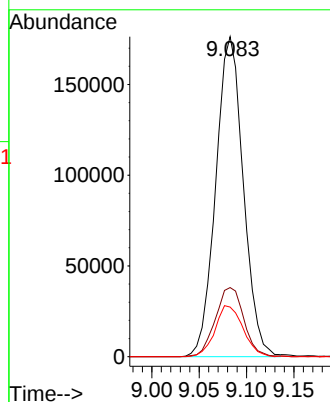
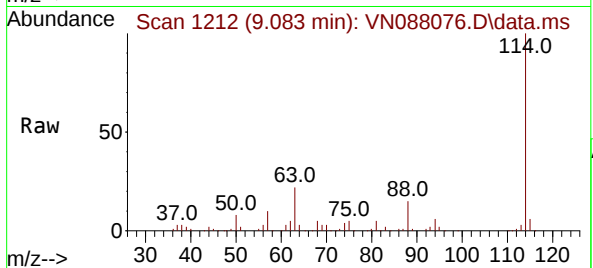
Tgt Ion:114 Resp: 356820

Ion Ratio Lower Upper

114 100

63 22.3 16.6 25.0

88 16.2 12.6 18.8



#30

2-Butanone

Concen: 0.723 ug/l

RT: 7.489 min Scan# 941

Delta R.T. 0.012 min

Lab File: VN088076.D

Acq: 20 Oct 2025 11:31

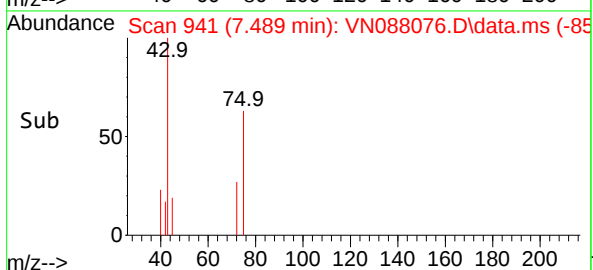
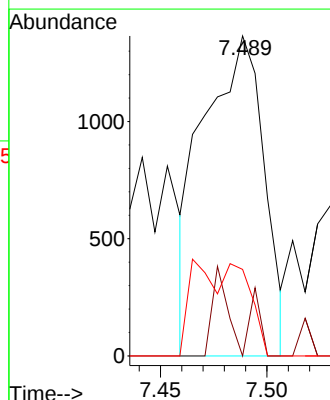
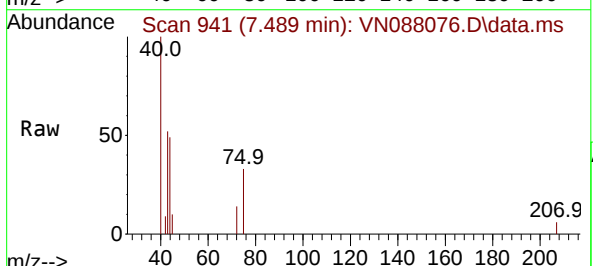
Tgt Ion: 43 Resp: 2727

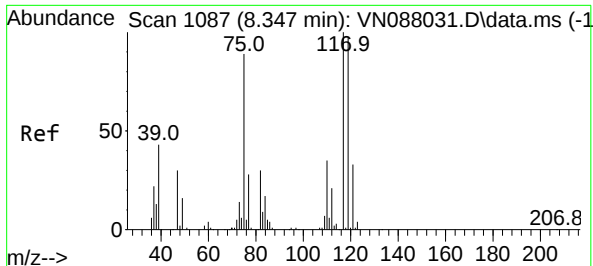
Ion Ratio Lower Upper

43 100

57 3.8 6.5 9.7#

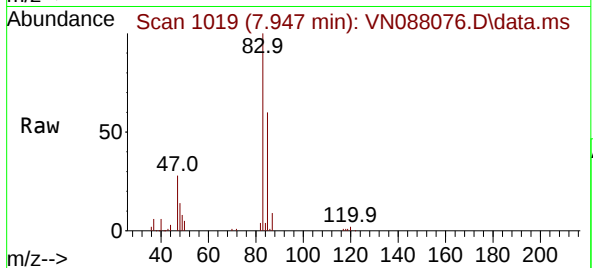
72 12.7 21.4 32.2#



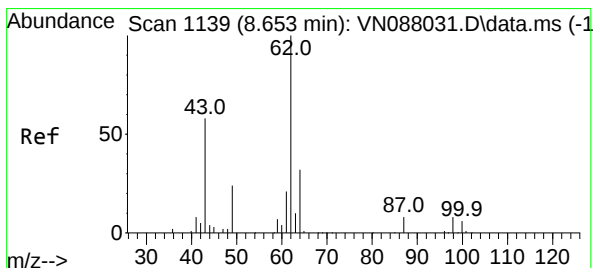
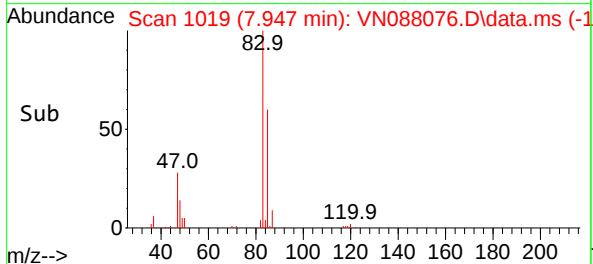
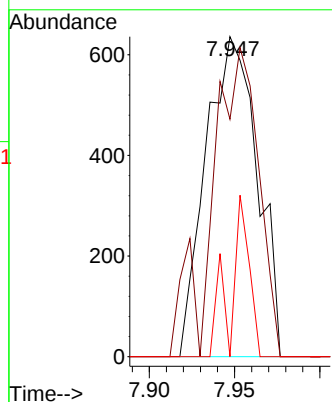


#33
Carbon Tetrachloride
Concen: 0.250 ug/l
RT: 7.947 min Scan# 11
Delta R.T. -0.400 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Instrument :
MSVOA_N
ClientSampleId :

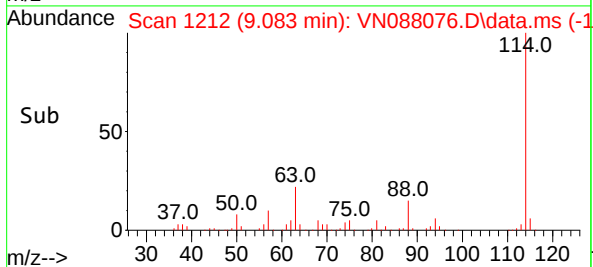
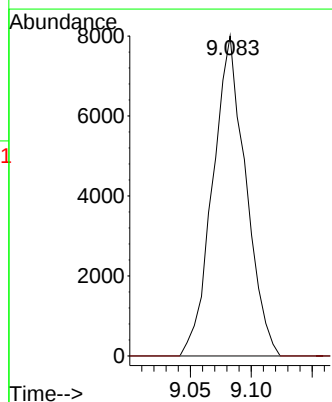
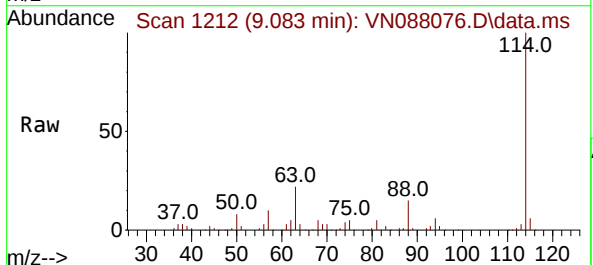


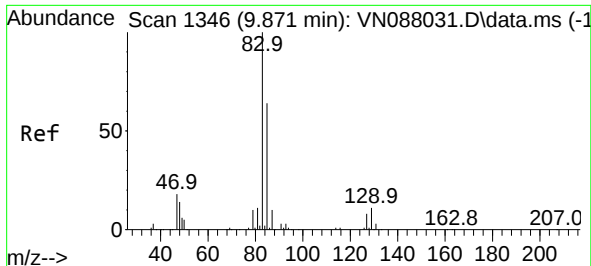
Tgt Ion:117 Resp: 1336
Ion Ratio Lower Upper
117 100
119 74.2 77.9 116.9#
121 0.0 26.4 39.6#



#36
1,2-Dichloroethane
Concen: 2.562 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.430 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

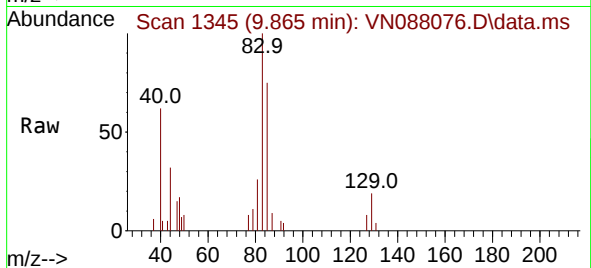
Tgt Ion: 62 Resp: 15089
Ion Ratio Lower Upper
62 100
98 0.0 7.8 11.6#



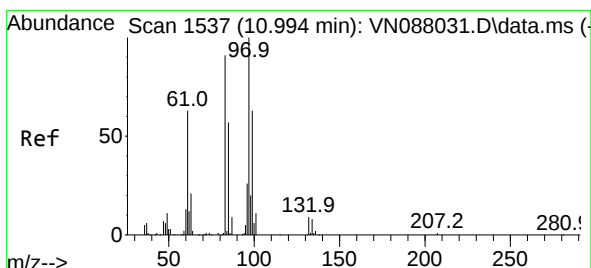
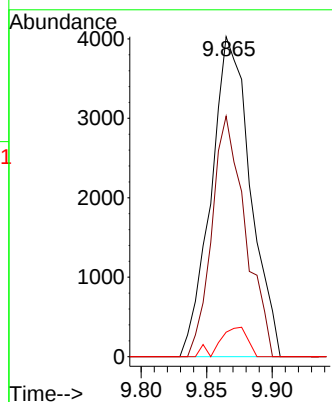
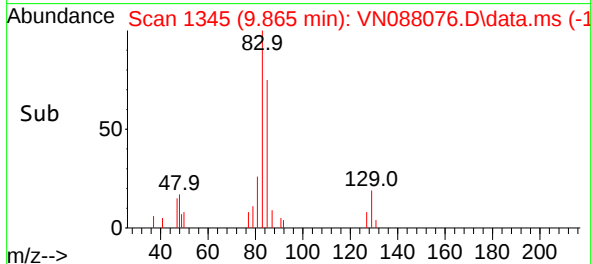


#41
Bromodichloromethane
Concen: 1.333 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

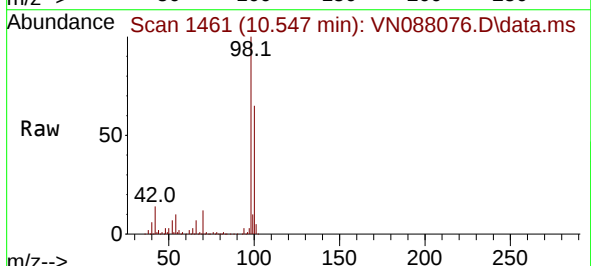
Instrument :
MSVOA_N
ClientSampleId :



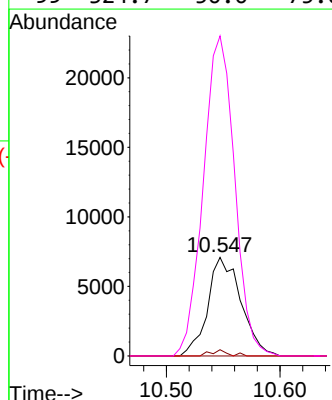
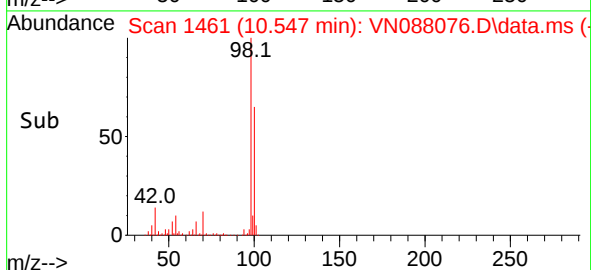
Tgt Ion: 83 Resp: 8427
Ion Ratio Lower Upper
83 100
85 75.1 51.0 76.4
127 7.6 6.1 9.1

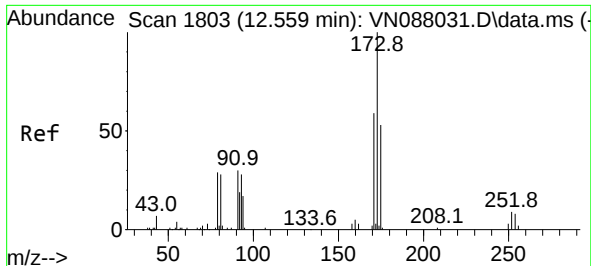


#50
1,1,2-Trichloroethane
Concen: 3.535 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.447 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31



Tgt Ion: 97 Resp: 14495
Ion Ratio Lower Upper
97 100
83 6.3 72.5 108.7#
85 0.0 45.5 68.3#
99 324.7 50.0 75.0#

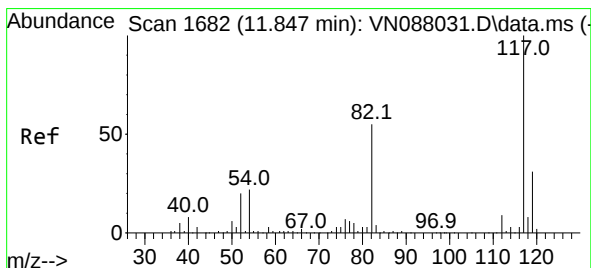
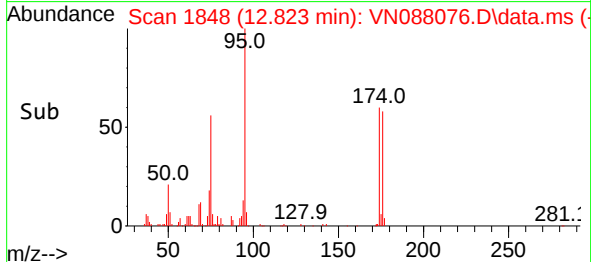
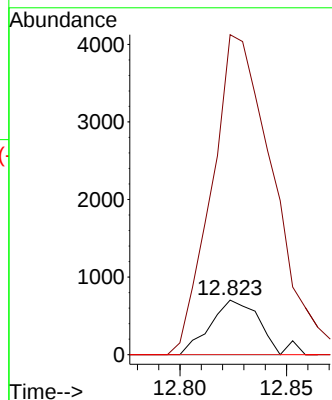
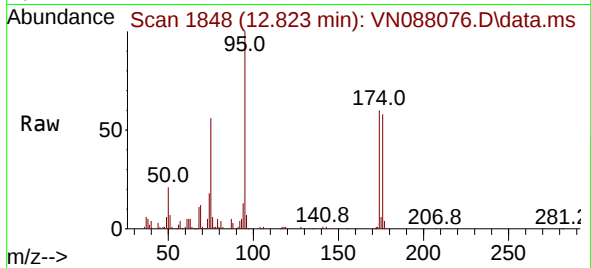




#56
Bromoform
Concen: 0.331 ug/l
RT: 12.823 min Scan# 11
Delta R.T. 0.265 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

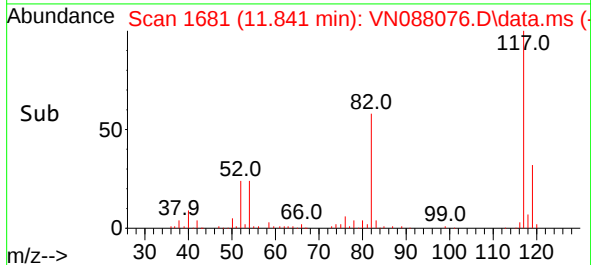
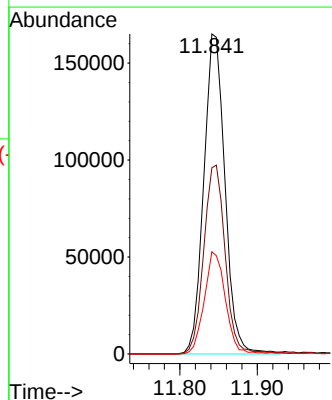
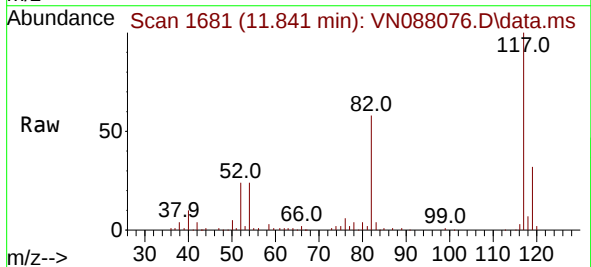
Instrument :
MSVOA_N
ClientSampleId :

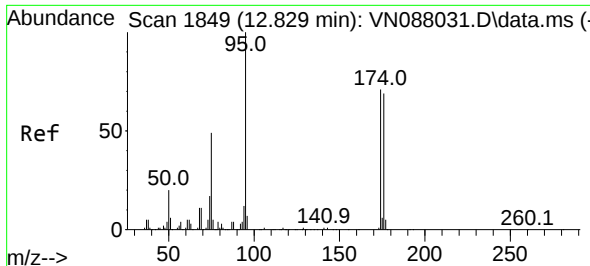
Tgt Ion:173 Resp: 1098
Ion Ratio Lower Upper
173 100
175 753.7 39.6 59.4#
254 0.0 6.6 10.0#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Tgt Ion:117 Resp: 313448
Ion Ratio Lower Upper
117 100
82 59.6 45.2 67.8
119 31.7 25.9 38.9

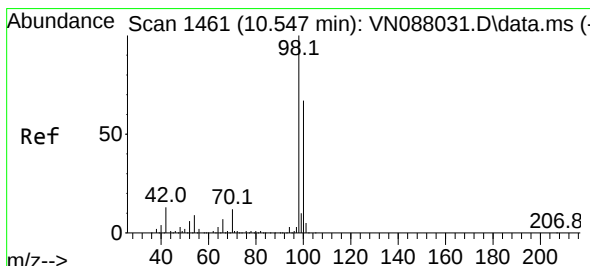
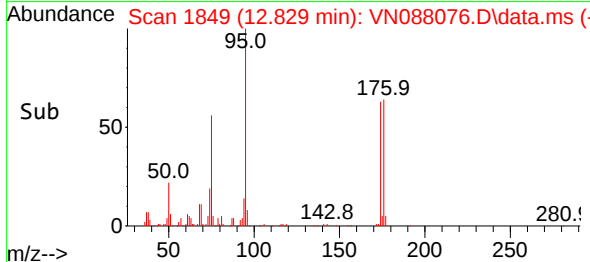
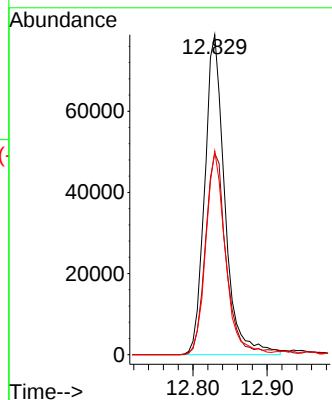
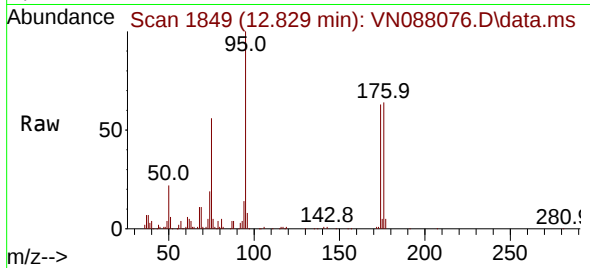




#60
4-Bromofluorobenzene
Concen: 28.813 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

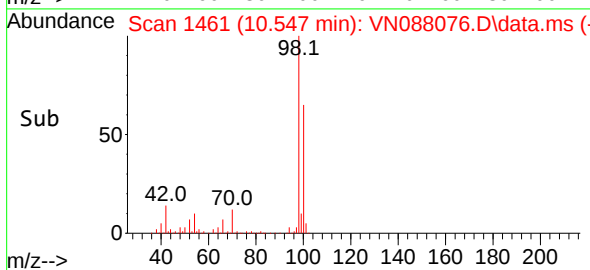
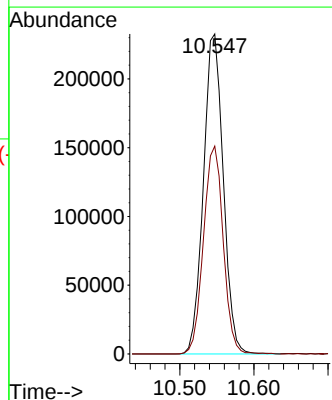
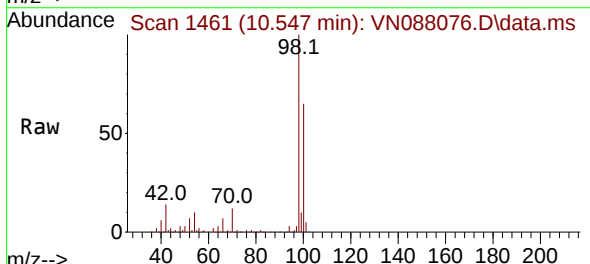
Instrument :
MSVOA_N
ClientSampleId :

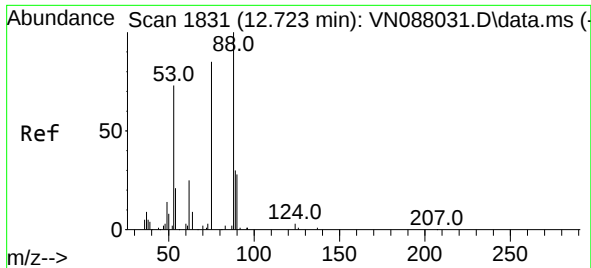
Tgt Ion: 95 Resp: 148887
Ion Ratio Lower Upper
95 100
174 64.3 57.4 86.0
176 62.3 57.0 85.4



#63
Toluene-d8
Concen: 31.059 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

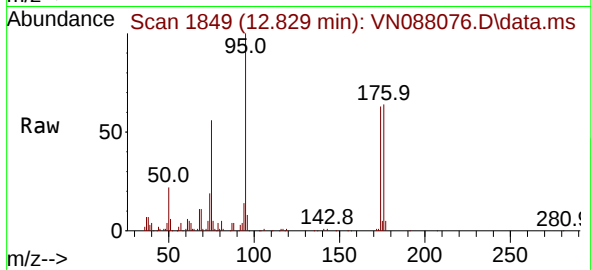
Tgt Ion: 98 Resp: 433757
Ion Ratio Lower Upper
98 100
100 64.2 53.1 79.7





#77
t-1,4-Dichloro-2-butene
Concen: 35.463 ug/l
RT: 12.829 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN088076.D
Acq: 20 Oct 2025 11:31

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 80919

Ion	Ratio	Lower	Upper
75	100		
53	0.0	41.8	125.3#
89	0.0	19.9	59.6#

