

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090425\
 Data File : VN087722.D
 Acq On : 04 Sep 2025 14:58
 Operator : JC\MD
 Sample : Q3017-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TT-077-IDWGW-20250903

Quant Time: Sep 05 02:21:37 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080525W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 06 02:01:21 2025
 Response via : Initial Calibration

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

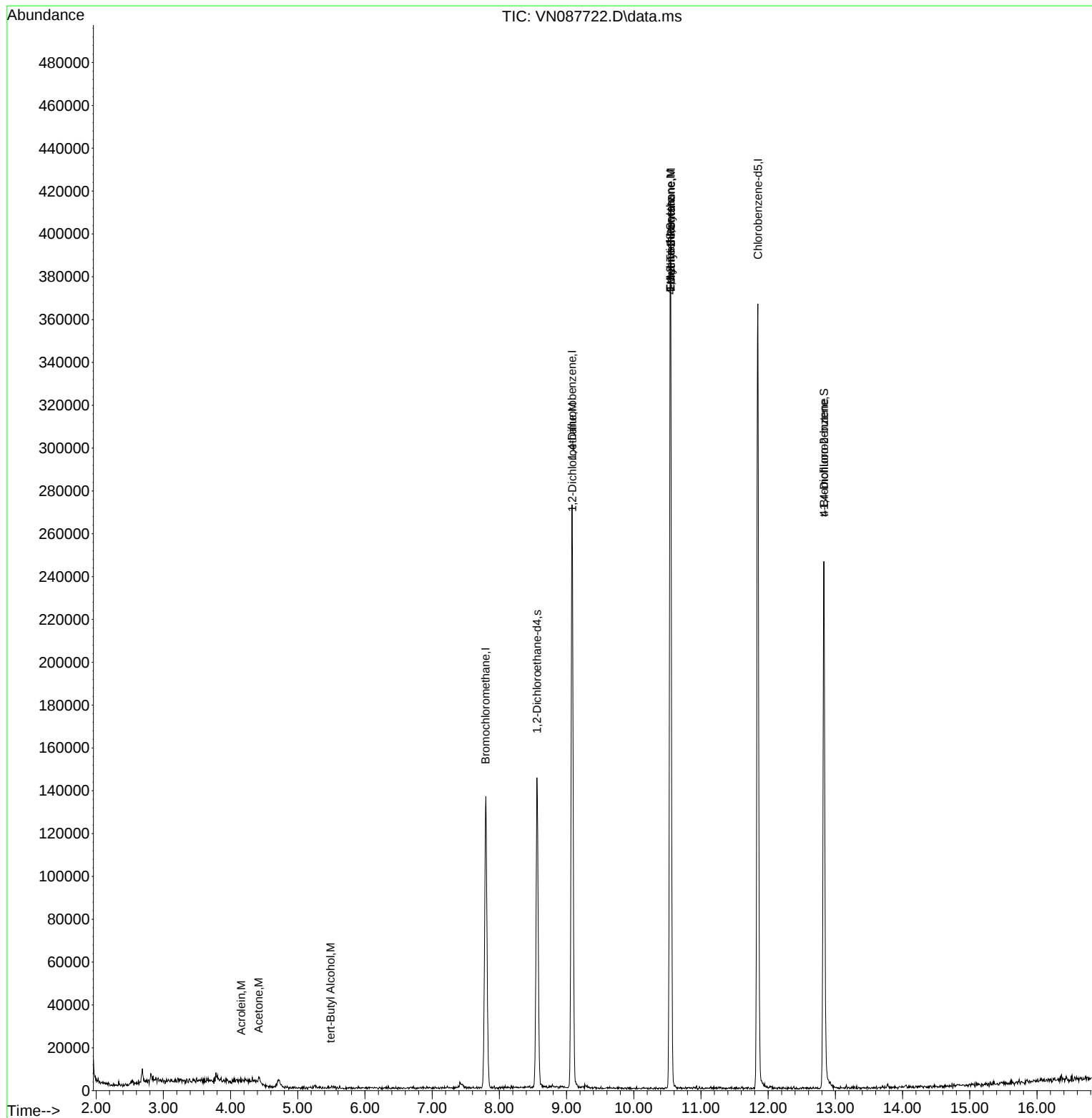
Internal Standards						
1) Bromochloromethane	7.794	128	41995	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.082	114	225576	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	201361	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	113790	29.377	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.933%
60) 4-Bromofluorobenzene	12.829	95	83261	24.027	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	80.100%
63) Toluene-d8	10.547	98	272481	29.409	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	98.033%
Target Compounds						
					Qvalue	
13) Acrolein	4.159	56	201	0.310	ug/l #	54
15) Acetone	4.418	58	187	0.353	ug/l #	1
23) tert-Butyl Alcohol	5.489	59	219	0.278	ug/l #	100
36) 1,2-Dichloroethane	9.088	62	9311	1.984	ug/l #	77
50) 1,1,2-Trichloroethane	10.547	97	10707	3.793	ug/l #	1
51) Ethyl methacrylate	10.547	69	1192	0.240	ug/l #	29
58) 4-Methyl-2-Pentanone	10.553	43	1505	0.291	ug/l #	28
77) t-1,4-Dichloro-2-butene	12.829	75	48873	31.827	ug/l #	3

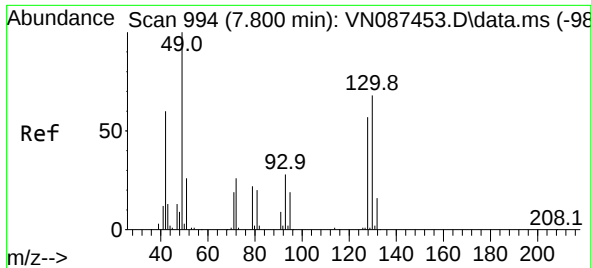
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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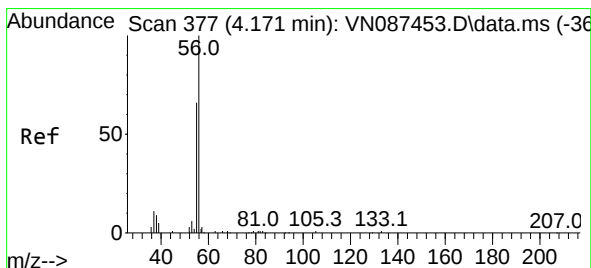
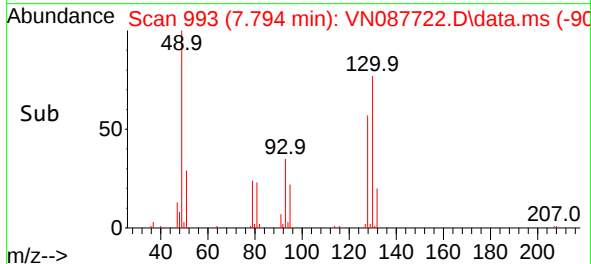
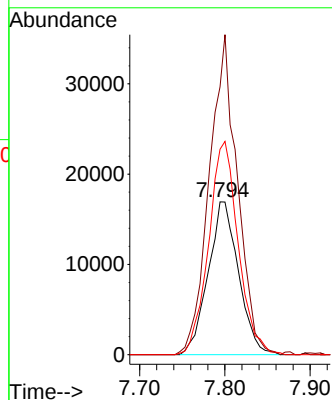
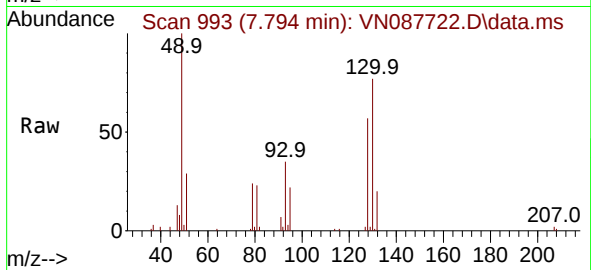




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. -0.006 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

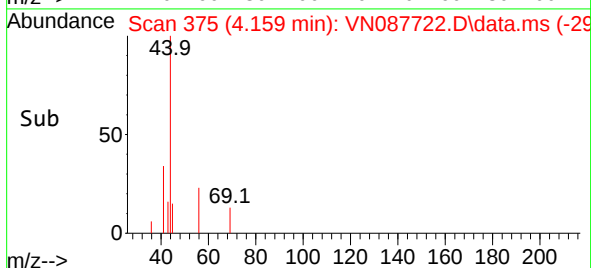
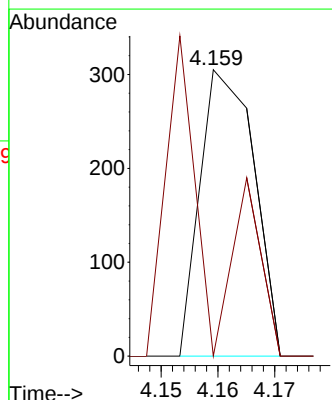
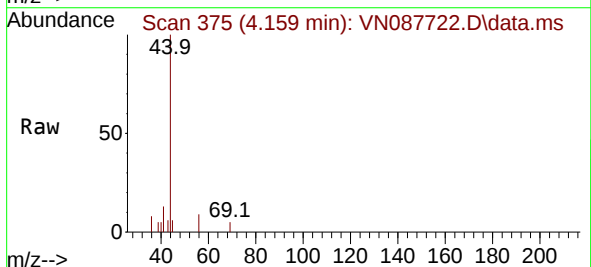
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

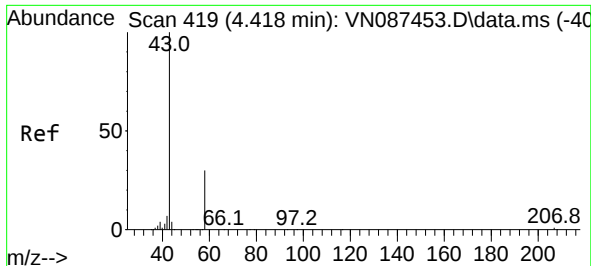
Tgt Ion:128 Resp: 41995
Ion Ratio Lower Upper
128 100
49 193.7 0.0 494.8
130 136.0 0.0 321.5



#13
Acrolein
Concen: 0.310 ug/l
RT: 4.159 min Scan# 375
Delta R.T. -0.012 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 56 Resp: 201
Ion Ratio Lower Upper
56 100
55 33.3 57.4 86.0#

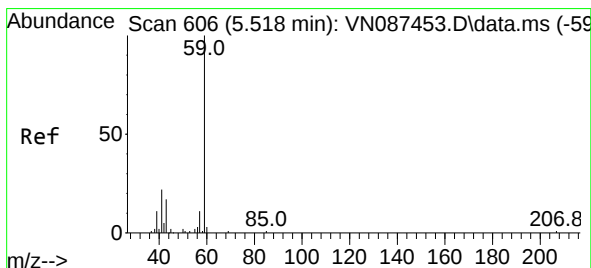
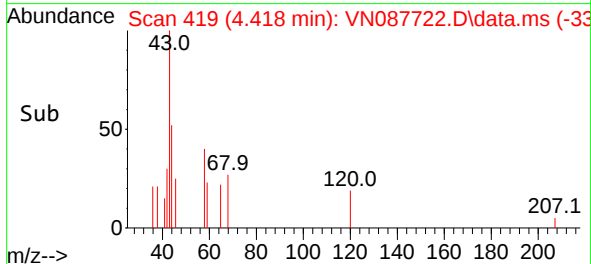
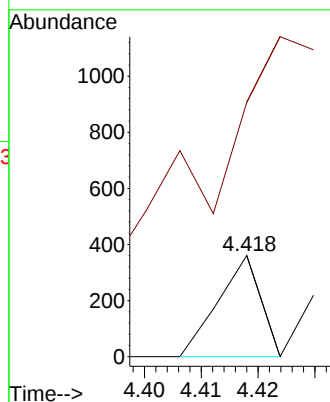
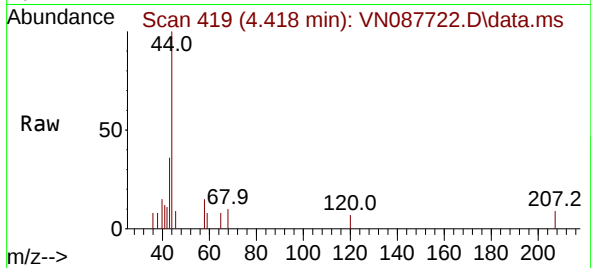




#15
Acetone
Concen: 0.353 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

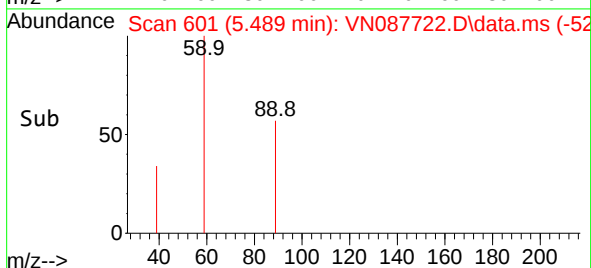
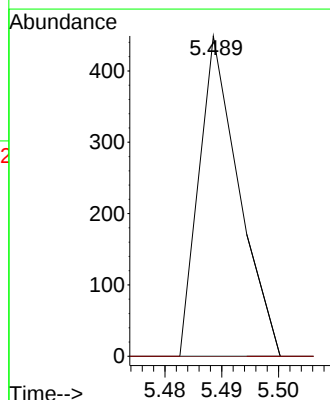
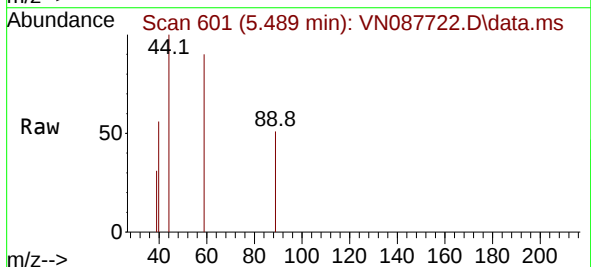
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

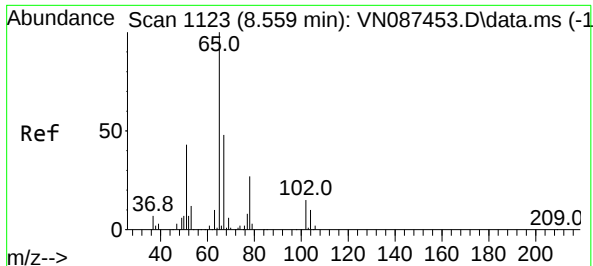
Tgt Ion: 58 Resp: 187
Ion Ratio Lower Upper
58 100
43 47.6 268.9 403.3#



#23
tert-Butyl Alcohol
Concen: 0.278 ug/l
RT: 5.489 min Scan# 601
Delta R.T. -0.029 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 59 Resp: 219
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0

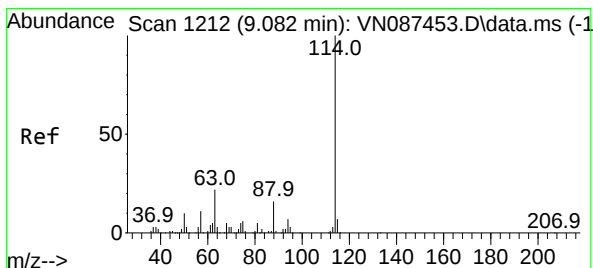
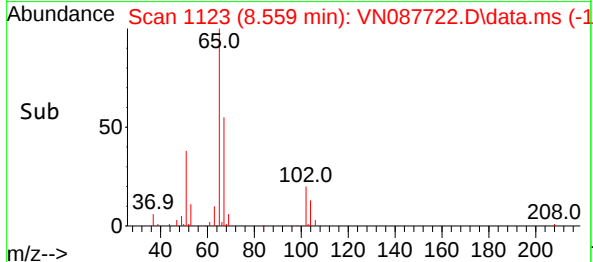
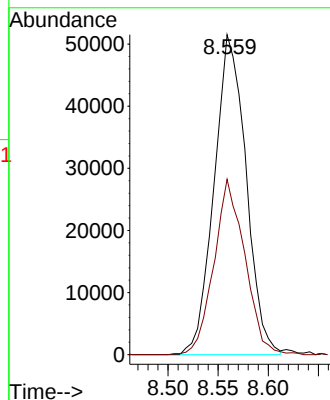
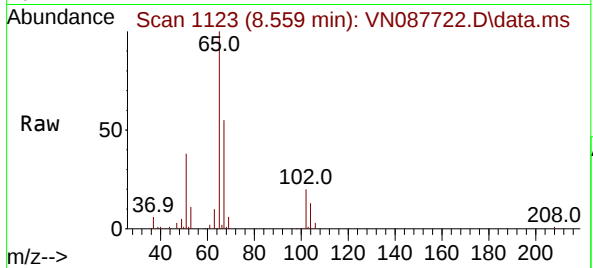




#27
1,2-Dichloroethane-d4
Concen: 29.377 ug/l
RT: 8.559 min Scan# 1123
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

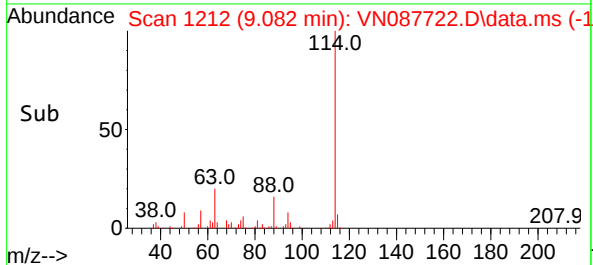
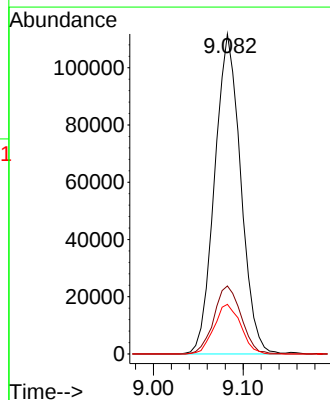
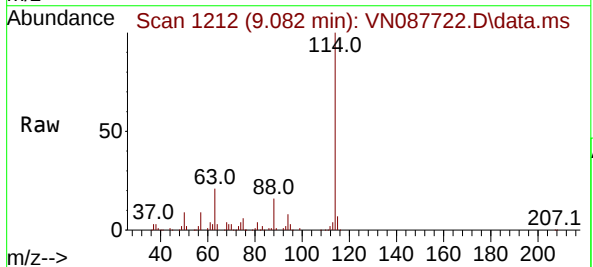
Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

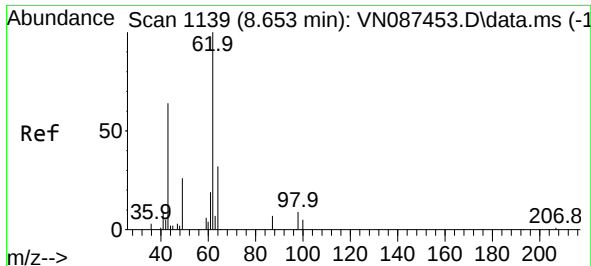
Tgt Ion: 65 Resp: 113790
Ion Ratio Lower Upper
65 100
67 53.2 40.8 61.2



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.082 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 114 Resp: 225576
Ion Ratio Lower Upper
114 100
63 22.1 18.9 28.3
88 15.8 13.1 19.7





#36

1,2-Dichloroethane

Concen: 1.984 ug/l

RT: 9.088 min Scan# 1139

Delta R.T. 0.435 min

Lab File: VN087722.D

Acq: 04 Sep 2025 14:58

Instrument :

MSVOA_N

ClientSampleId :

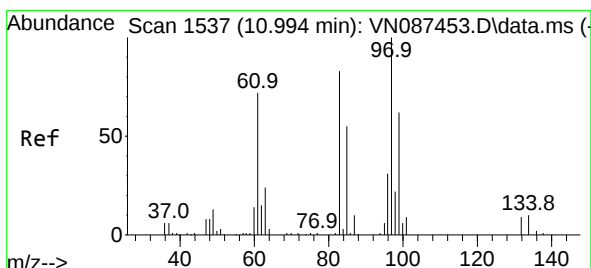
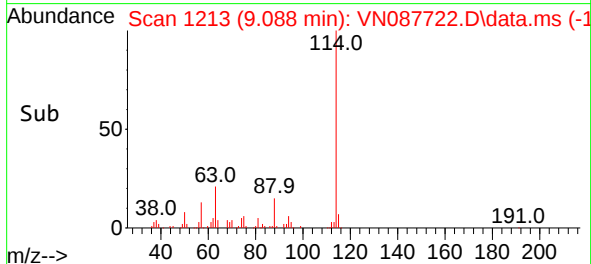
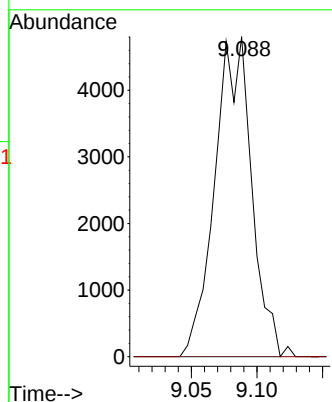
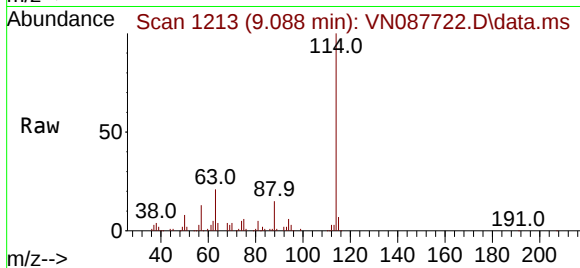
TT-077-IDWGW-20250903

Tgt Ion: 62 Resp: 9311

Ion Ratio Lower Upper

62 100

98 0.0 6.6 9.8#



#50

1,1,2-Trichloroethane

Concen: 3.793 ug/l

RT: 10.547 min Scan# 1461

Delta R.T. -0.447 min

Lab File: VN087722.D

Acq: 04 Sep 2025 14:58

Tgt Ion: 97 Resp: 10707

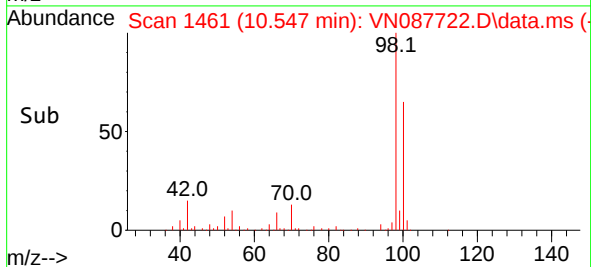
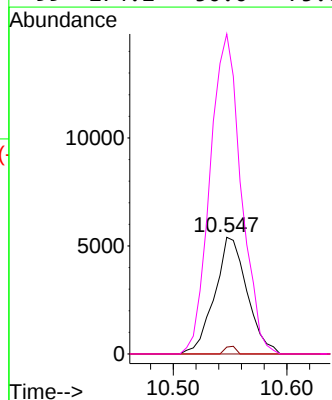
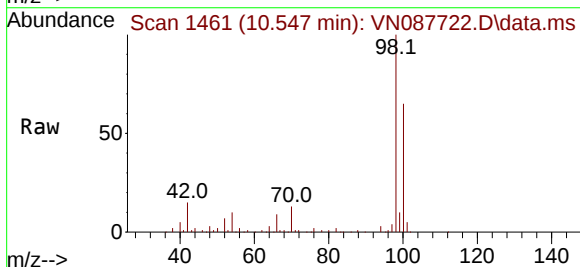
Ion Ratio Lower Upper

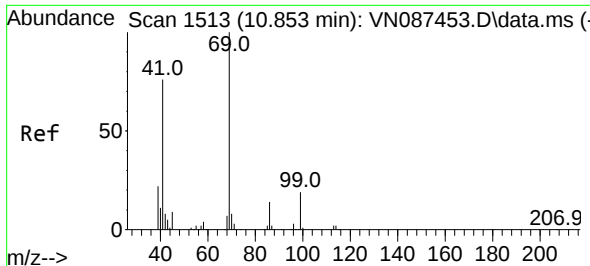
97 100

83 5.9 66.2 99.2#

85 0.0 43.9 65.9#

99 274.2 50.0 75.0#

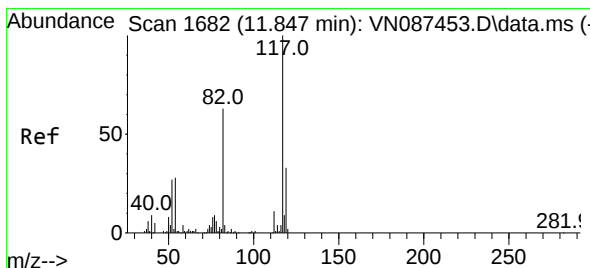
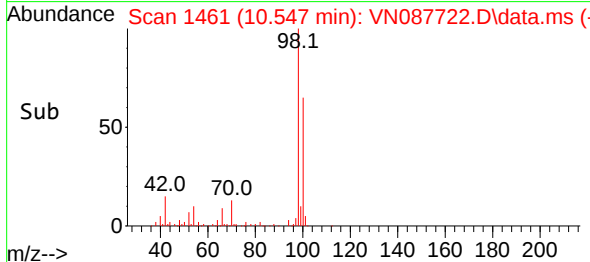
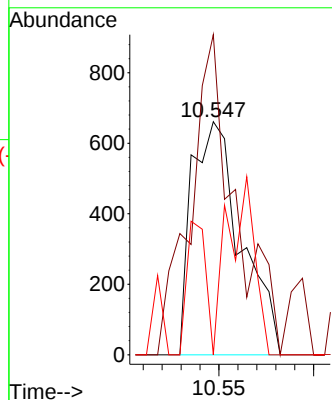
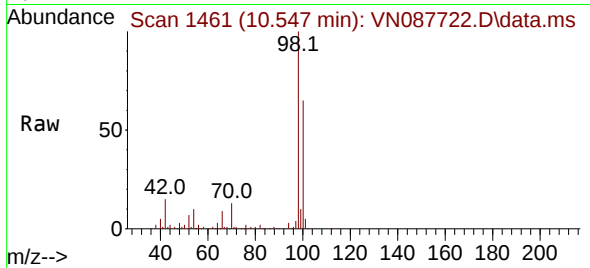




#51
Ethyl methacrylate
Concen: 0.240 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.306 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

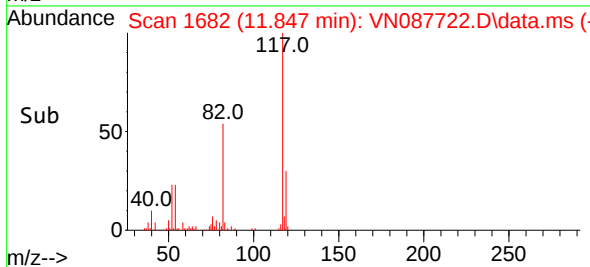
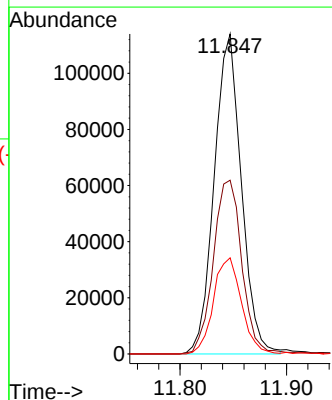
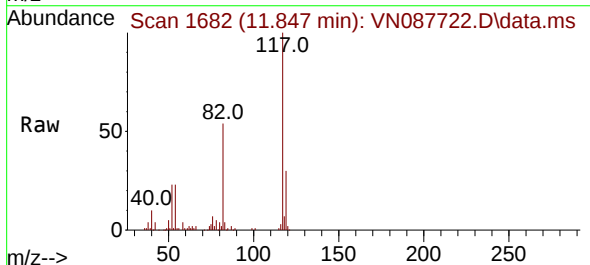
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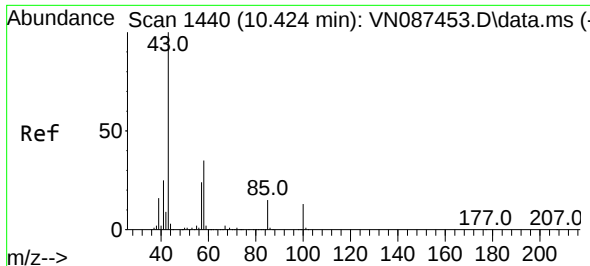
Tgt Ion: 69 Resp: 1192
Ion Ratio Lower Upper
69 100
41 137.4 38.0 114.1#
39 0.0 23.2 69.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.847 min Scan# 1682
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 117 Resp: 201361
Ion Ratio Lower Upper
117 100
82 57.4 49.2 73.8
119 31.0 25.7 38.5

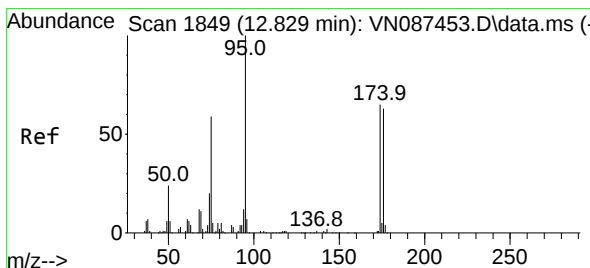
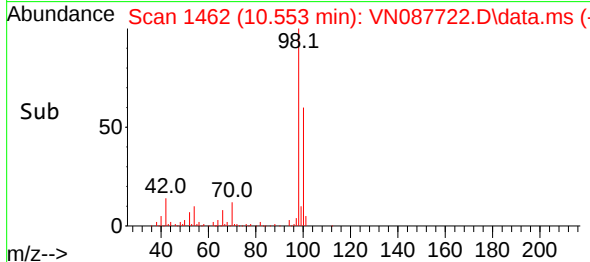
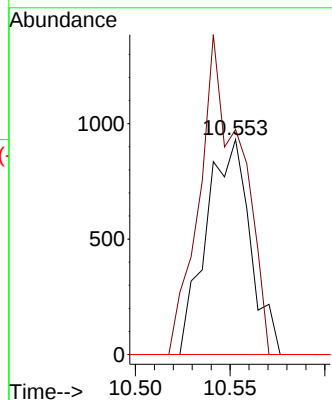
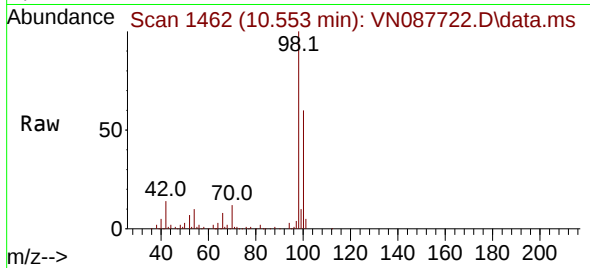




#58
4-Methyl-2-Pentanone
Concen: 0.291 ug/l
RT: 10.553 min Scan# 1440
Delta R.T. 0.129 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

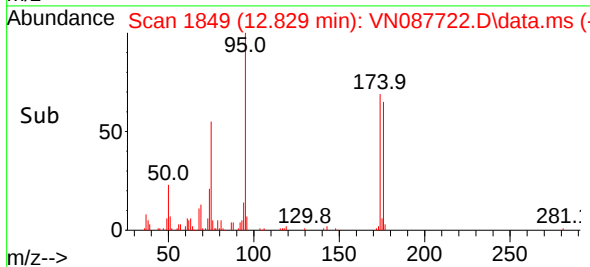
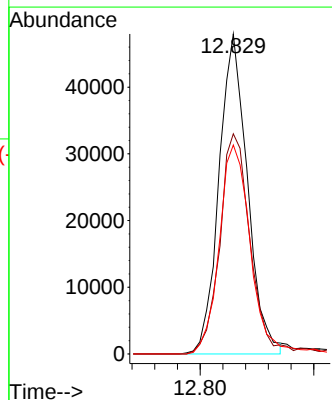
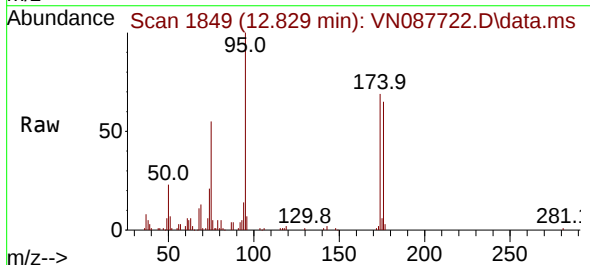
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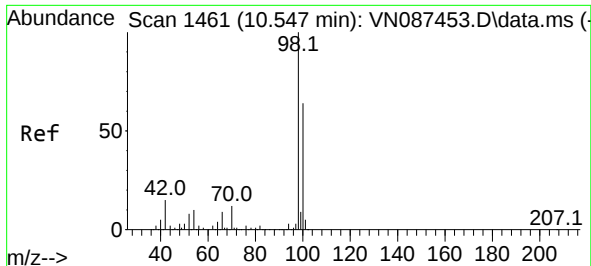
Tgt Ion: 43 Resp: 1505
Ion Ratio Lower Upper
43 100
58 87.4 29.0 43.6#
85 0.0 12.7 19.1#



#60
4-Bromofluorobenzene
Concen: 24.027 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 95 Resp: 83261
Ion Ratio Lower Upper
95 100
174 71.7 52.3 78.5
176 71.5 49.8 74.8

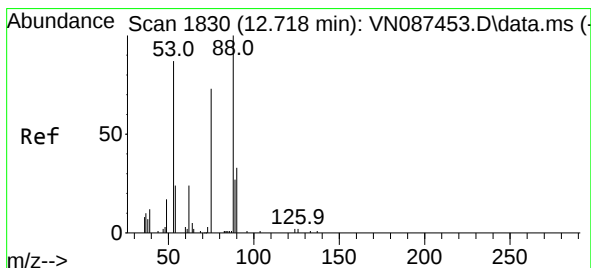
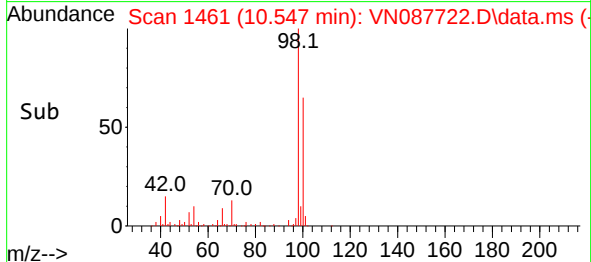
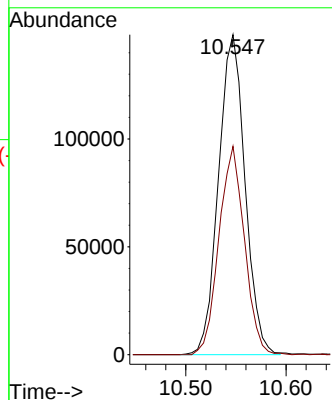
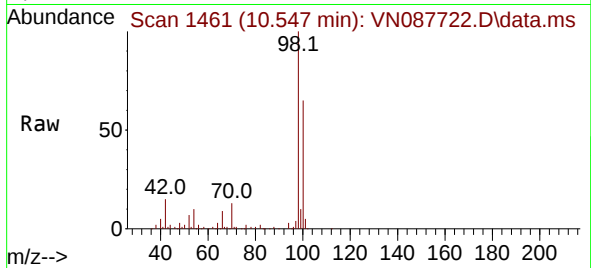




#63
Toluene-d8
Concen: 29.409 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Instrument :
MSVOA_N
ClientSampleId :
TT-077-IDWGW-20250903

Tgt Ion: 98 Resp: 272481
Ion Ratio Lower Upper
98 100
100 62.6 50.5 75.7



#77
t-1,4-Dichloro-2-butene
Concen: 31.827 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.112 min
Lab File: VN087722.D
Acq: 04 Sep 2025 14:58

Tgt Ion: 75 Resp: 48873
Ion Ratio Lower Upper
75 100
53 0.0 59.0 176.8#
89 0.0 22.1 66.5#

