

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092225\
 Data File : VN087921.D
 Acq On : 22 Sep 2025 14:47
 Operator : JC\MD
 Sample : Q3149-02RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 002 35th Ave(Aug)RE

Quant Time: Sep 23 04:54:25 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)

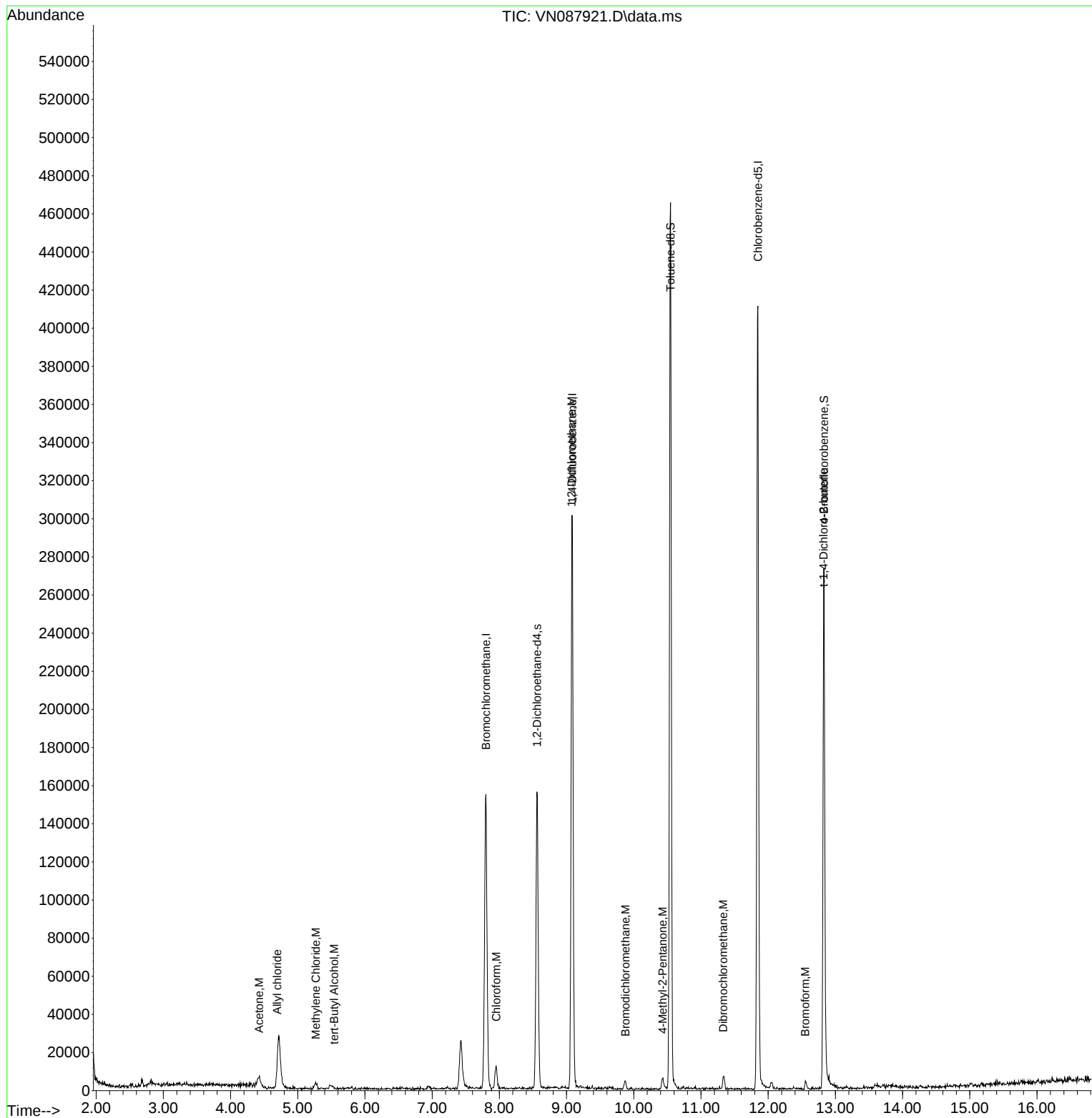
Internal Standards						
1) Bromochloromethane	7.800	128	55847	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.088	114	260070	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	239586	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	128722	26.982	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	89.933%#
60) 4-Bromofluorobenzene	12.829	95	95868	24.886	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.967%
63) Toluene-d8	10.547	98	322465	28.941	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.467%
Target Compounds						
					Qvalue	
15) Acetone	4.424	58	1160	1.662	ug/l #	68
17) Allyl chloride	4.694	41	1297	0.236	ug/l	73
18) Methylene Chloride	5.271	84	1520	0.398	ug/l #	31
23) tert-Butyl Alcohol	5.541	59	243	0.307	ug/l #	100
25) Chloroform	7.953	83	11284	1.555	ug/l	98
36) 1,2-Dichloroethane	9.076	62	10373	2.010	ug/l #	75
41) Bromodichloromethane	9.876	83	3527	0.663	ug/l #	81
53) Dibromochloromethane	11.329	129	4252	1.128	ug/l	89
56) Bromoform	12.553	173	2183	0.887	ug/l #	60
58) 4-Methyl-2-Pentanone	10.429	43	4471	0.789	ug/l #	89
77) t-1,4-Dichloro-2-butene	12.823	75	51273	30.162	ug/l #	14

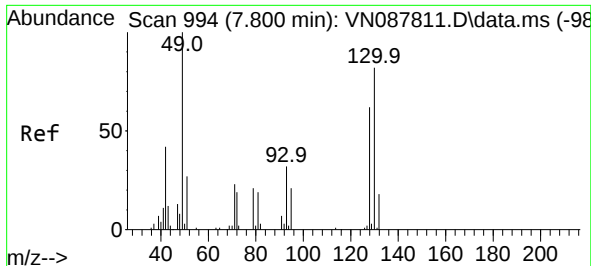
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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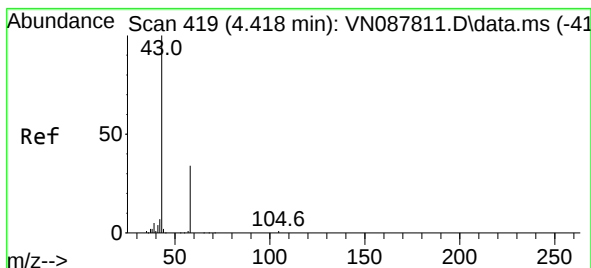
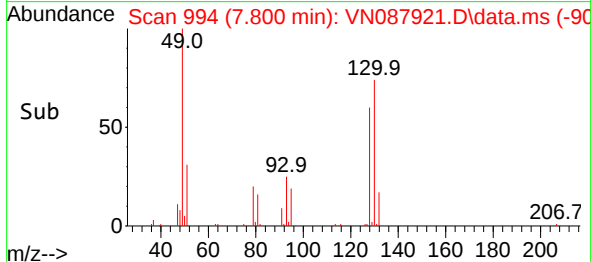
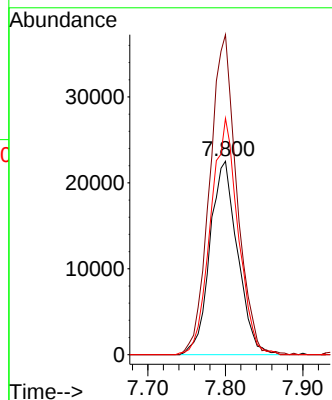
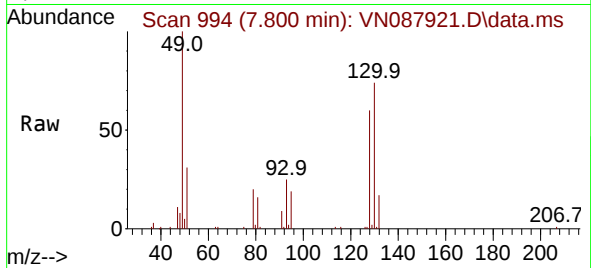




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.800 min Scan# 994
Delta R.T. 0.006 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

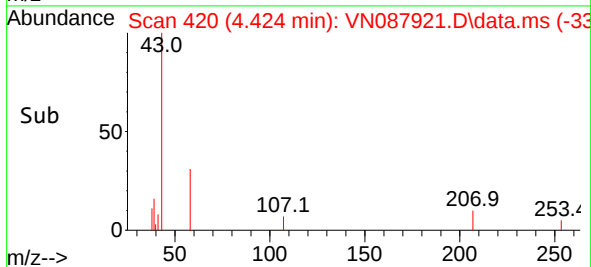
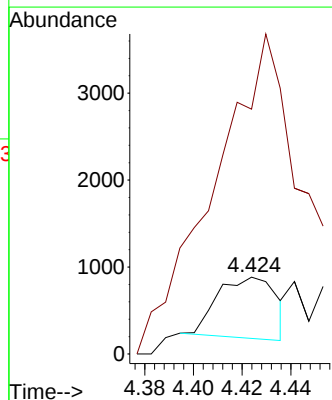
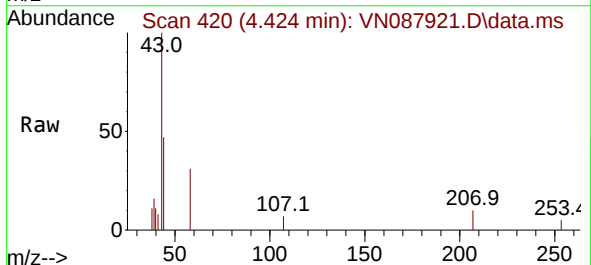
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(Aug)RE

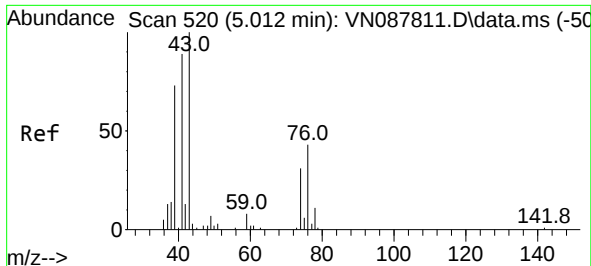
Tgt Ion:128 Resp: 55847
Ion Ratio Lower Upper
128 100
49 162.4 0.0 464.3
130 121.4 0.0 300.5



#15
Acetone
Concen: 1.662 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.006 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

Tgt Ion: 58 Resp: 1160
Ion Ratio Lower Upper
58 100
43 247.8 250.6 376.0#





#17

Allyl chloride

Concen: 0.236 ug/l

RT: 4.694 min Scan# 41

Delta R.T. -0.324 min

Lab File: VN087921.D

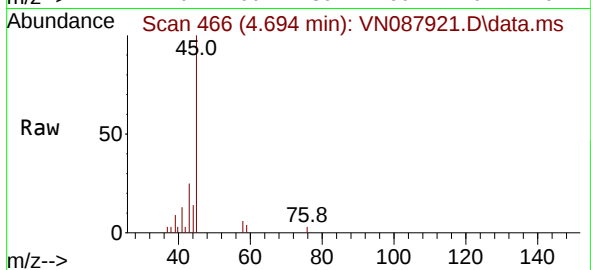
Acq: 22 Sep 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(Aug)RE



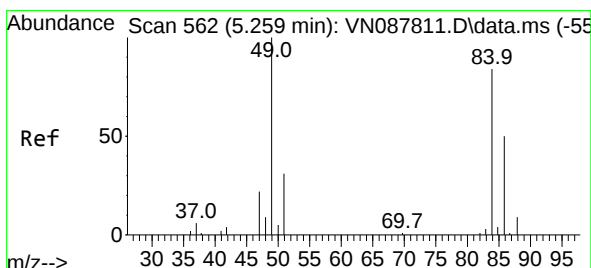
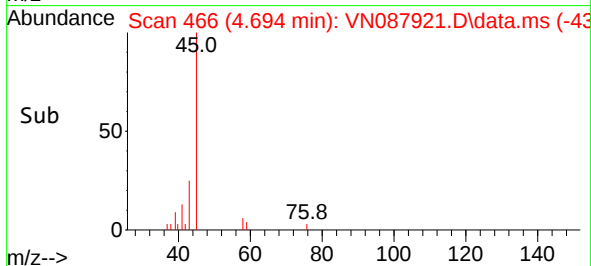
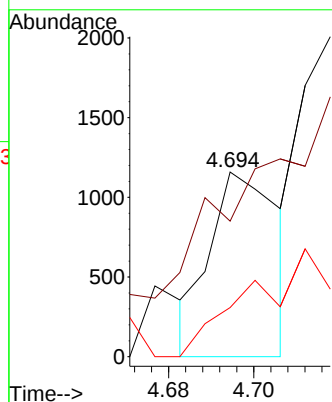
Tgt Ion: 41 Resp: 1297

Ion Ratio Lower Upper

41 100

39 40.2 36.7 110.1

76 38.4 18.3 54.8



#18

Methylene Chloride

Concen: 0.398 ug/l

RT: 5.271 min Scan# 564

Delta R.T. 0.006 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

Tgt Ion: 84 Resp: 1520

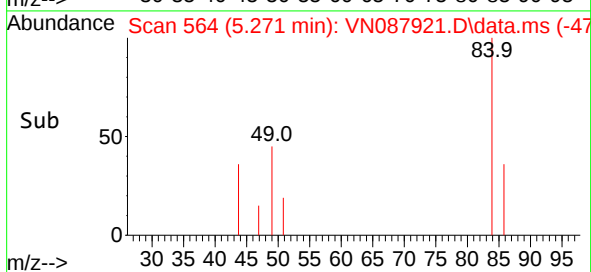
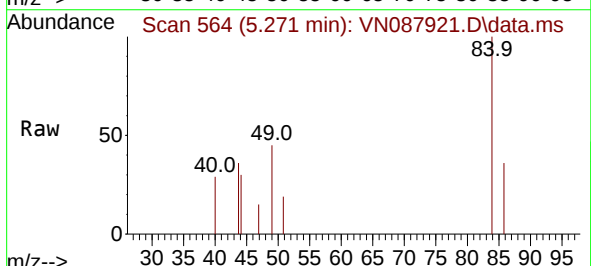
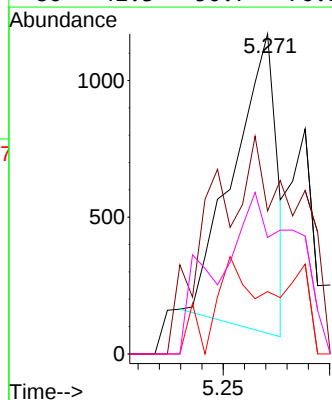
Ion Ratio Lower Upper

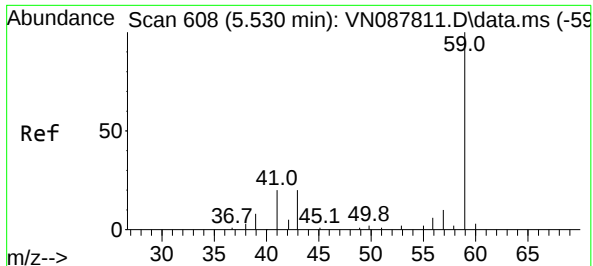
84 100

49 19.6 114.1 171.1#

51 22.7 30.2 45.4#

86 42.3 50.7 76.1#

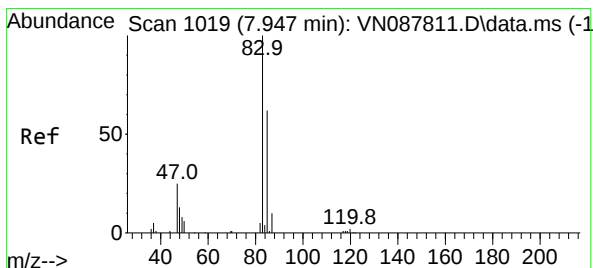
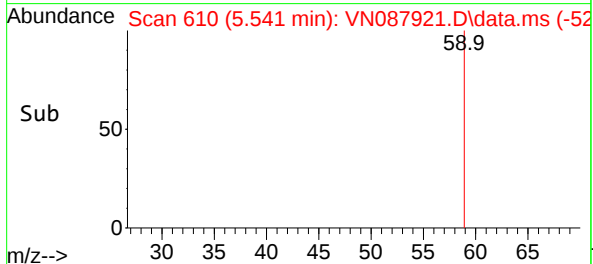
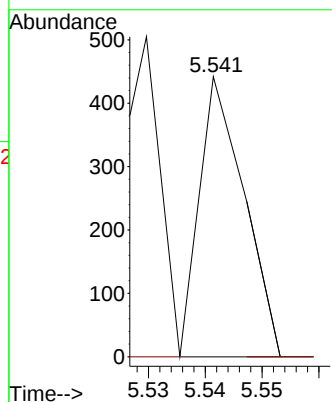
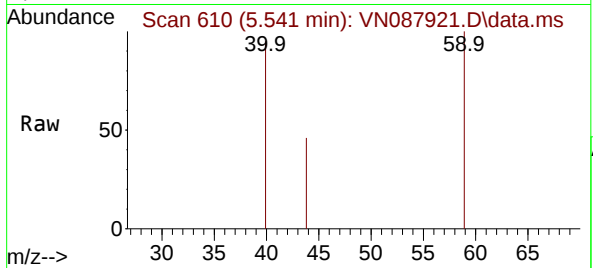




#23
tert-Butyl Alcohol
Concen: 0.307 ug/l
RT: 5.541 min Scan# 610
Delta R.T. 0.012 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

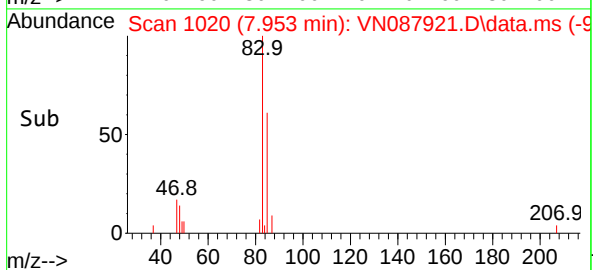
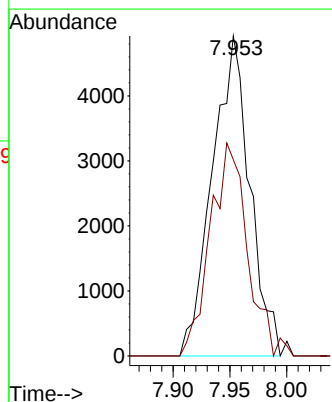
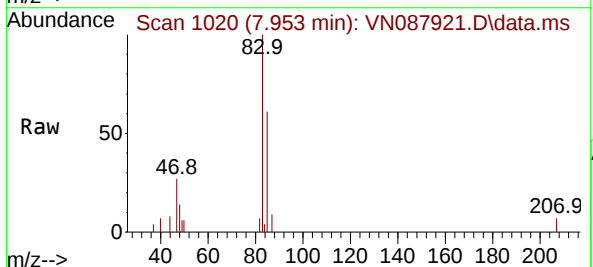
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(Aug)RE

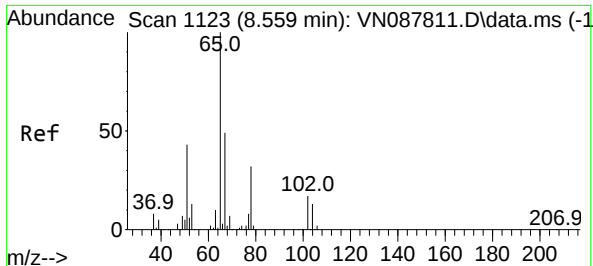
Tgt Ion: 59 Resp: 243
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#25
Chloroform
Concen: 1.555 ug/l
RT: 7.953 min Scan# 1020
Delta R.T. -0.000 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

Tgt Ion: 83 Resp: 11284
Ion Ratio Lower Upper
83 100
85 61.3 47.7 71.5





#27

1,2-Dichloroethane-d4

Concen: 26.982 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. -0.000 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

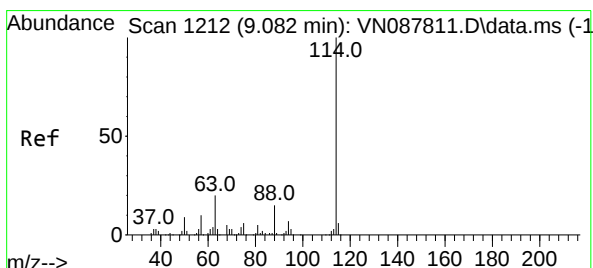
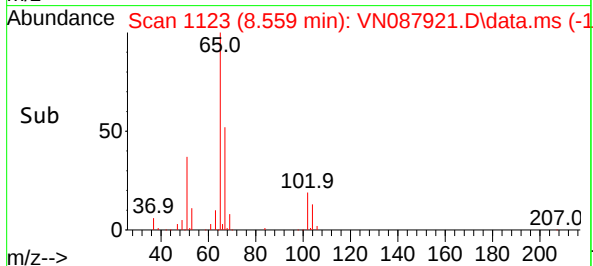
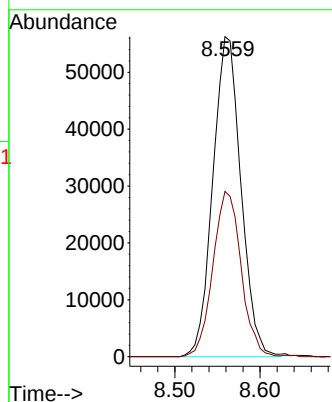
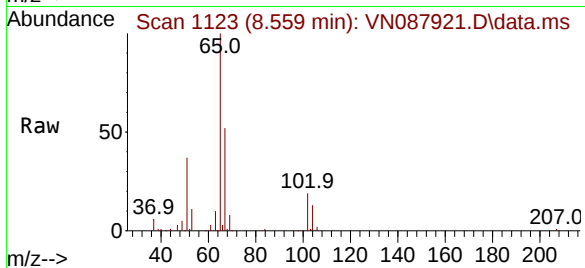
002 35th Ave(Aug)RE

Tgt Ion: 65 Resp: 128722

Ion Ratio Lower Upper

65 100

67 51.8 39.6 59.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.088 min Scan# 1213

Delta R.T. 0.006 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

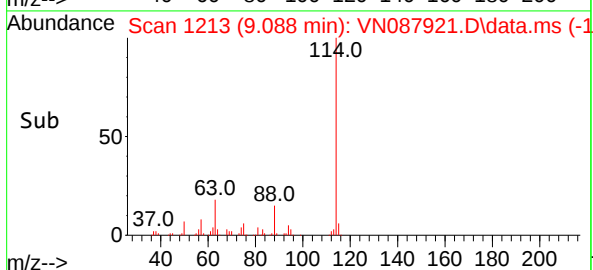
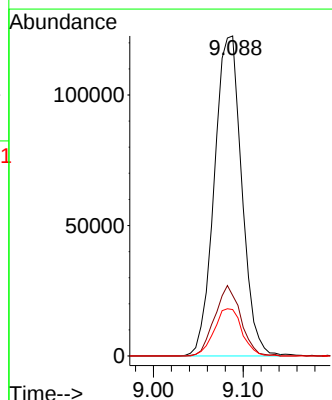
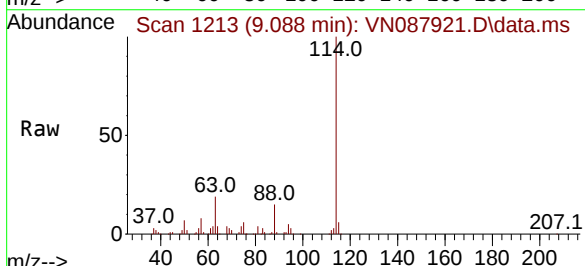
Tgt Ion:114 Resp: 260070

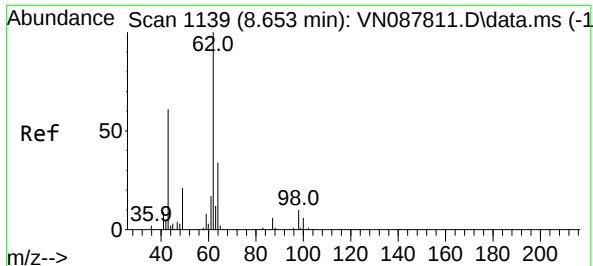
Ion Ratio Lower Upper

114 100

63 20.8 18.3 27.5

88 15.0 12.4 18.6





#36

1,2-Dichloroethane

Concen: 2.010 ug/l

RT: 9.076 min Scan# 1139

Delta R.T. 0.423 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

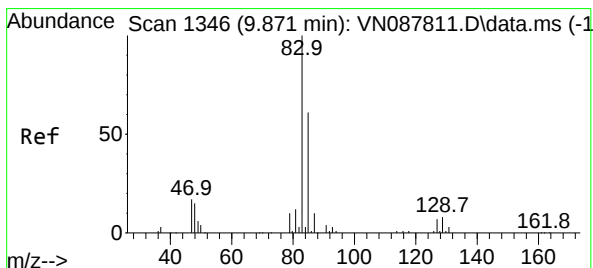
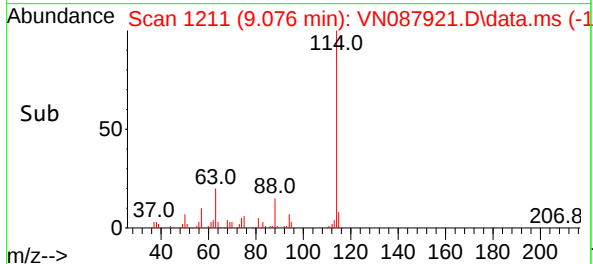
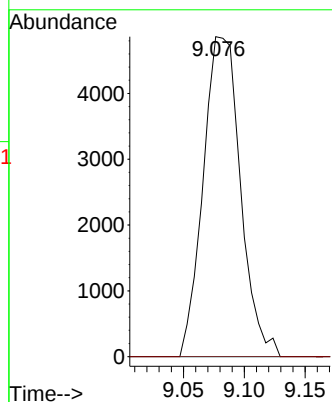
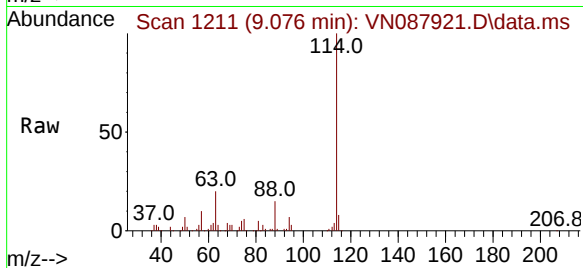
002 35th Ave(Aug)RE

Tgt Ion: 62 Resp: 10373

Ion Ratio Lower Upper

62 100

98 0.0 7.2 10.8#



#41

Bromodichloromethane

Concen: 0.663 ug/l

RT: 9.876 min Scan# 1347

Delta R.T. 0.006 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

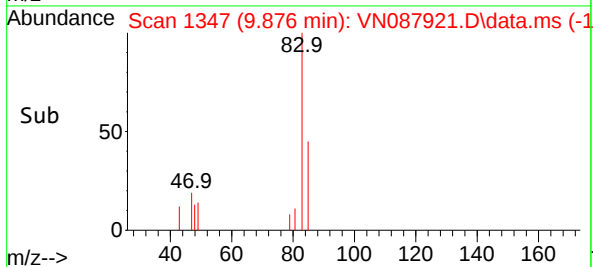
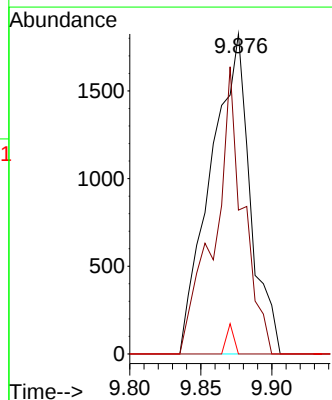
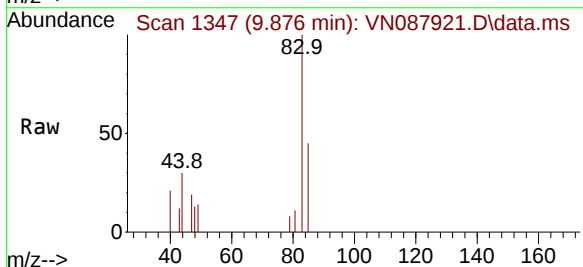
Tgt Ion: 83 Resp: 3527

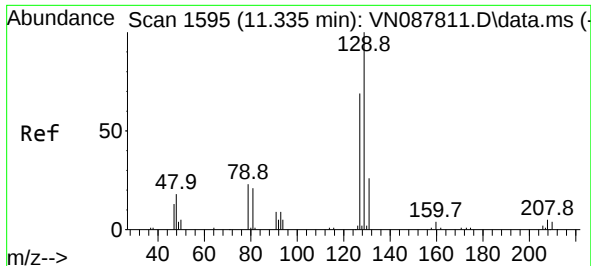
Ion Ratio Lower Upper

83 100

85 44.9 47.3 70.9#

127 0.0 5.2 7.8#

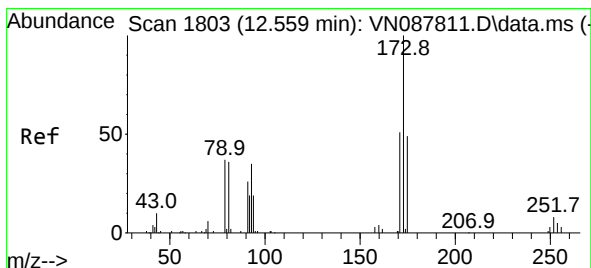
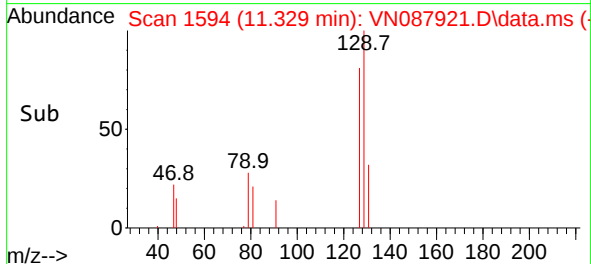
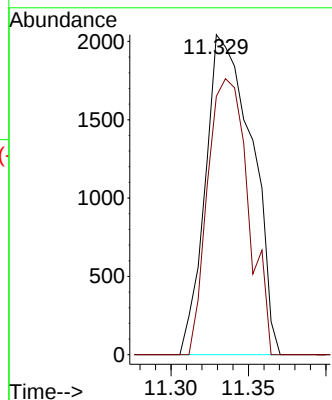
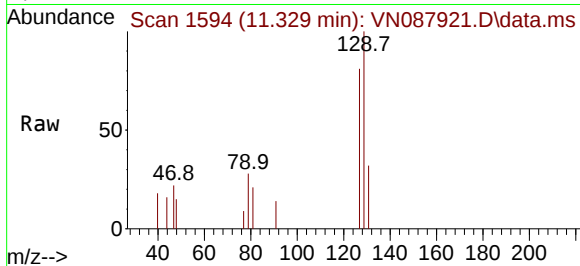




#53
Dibromochloromethane
Concen: 1.128 ug/l
RT: 11.329 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

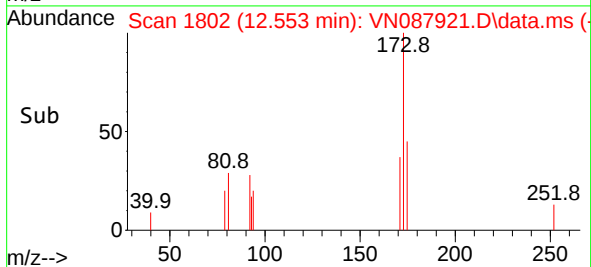
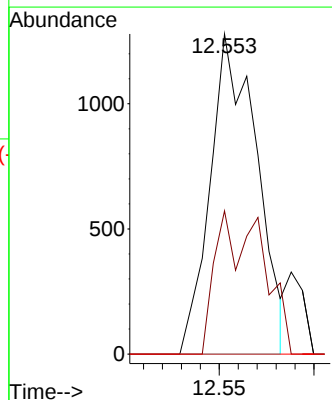
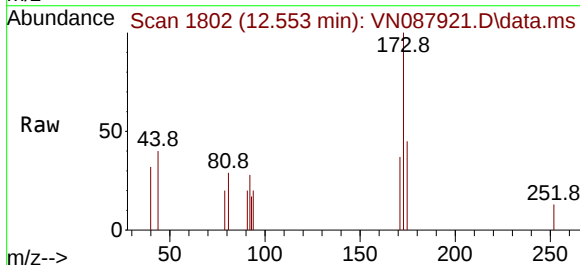
Instrument :
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002 35th Ave(Aug)RE

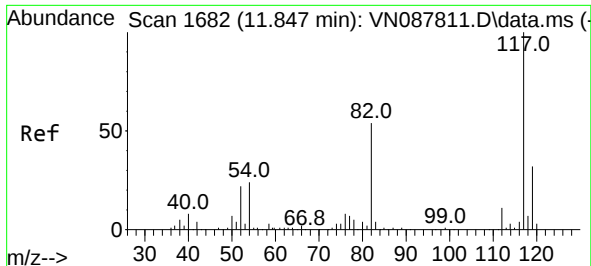
Tgt Ion:129 Resp: 4252
Ion Ratio Lower Upper
129 100
127 75.4 42.6 128.0



#56
Bromoform
Concen: 0.887 ug/l
RT: 12.553 min Scan# 1802
Delta R.T. -0.006 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

Tgt Ion:173 Resp: 2183
Ion Ratio Lower Upper
173 100
175 20.5 39.8 59.6#
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(Aug)RE

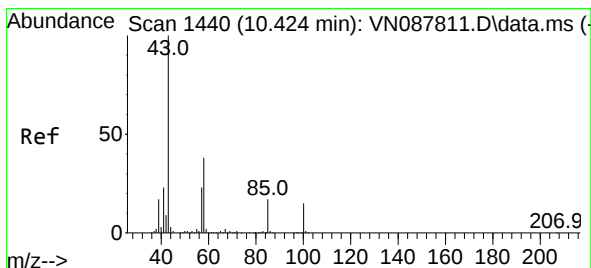
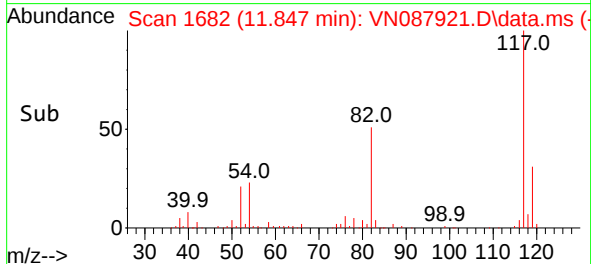
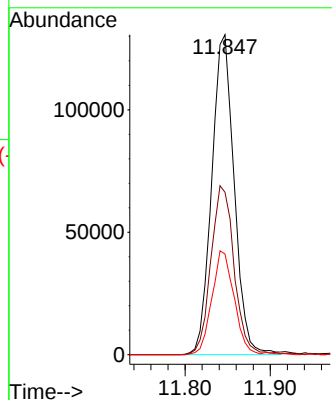
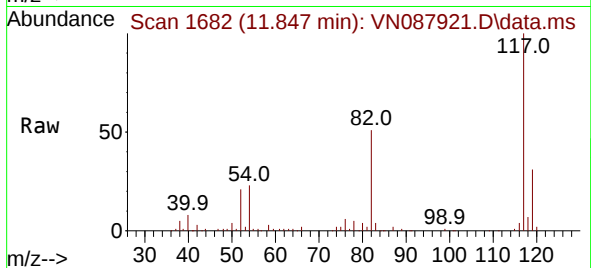
Tgt Ion:117 Resp: 239586

Ion Ratio Lower Upper

117 100

82 54.5 45.9 68.9

119 31.9 25.3 37.9



#58

4-Methyl-2-Pentanone

Concen: 0.789 ug/l

RT: 10.429 min Scan# 1441

Delta R.T. 0.006 min

Lab File: VN087921.D

Acq: 22 Sep 2025 14:47

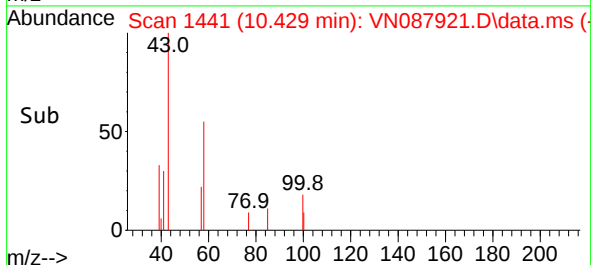
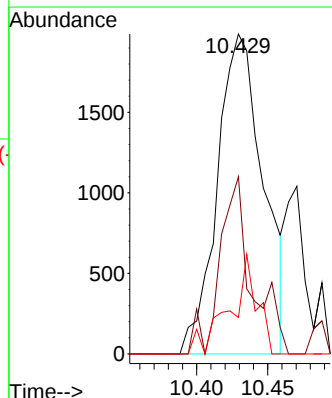
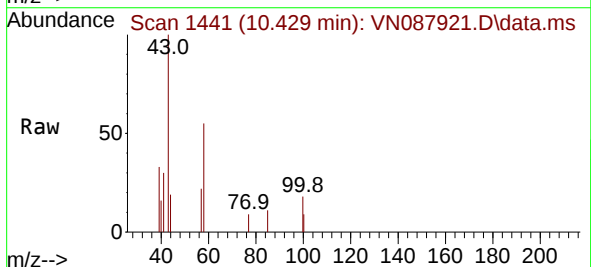
Tgt Ion: 43 Resp: 4471

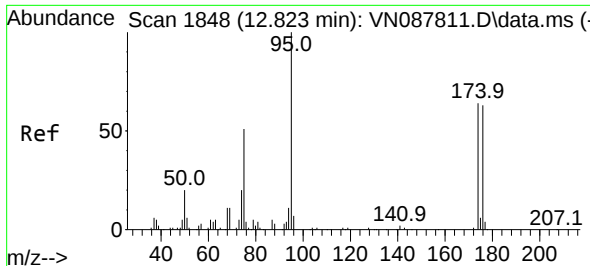
Ion Ratio Lower Upper

43 100

58 31.7 29.6 44.4

85 9.5 13.0 19.4#

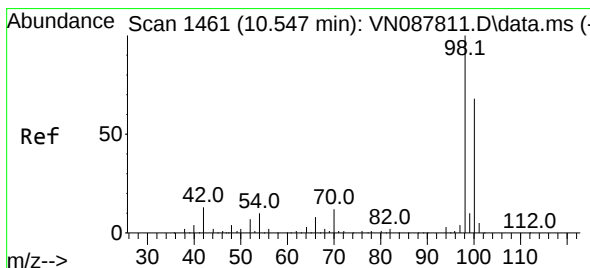
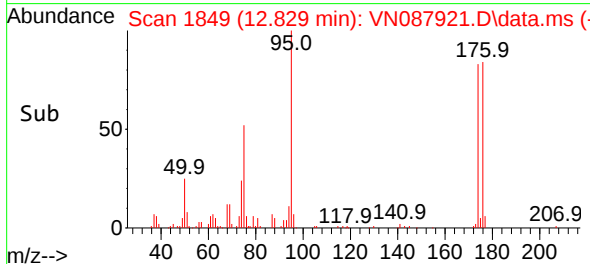
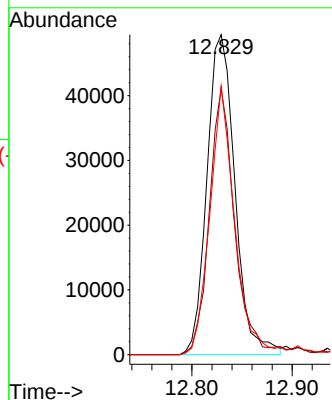
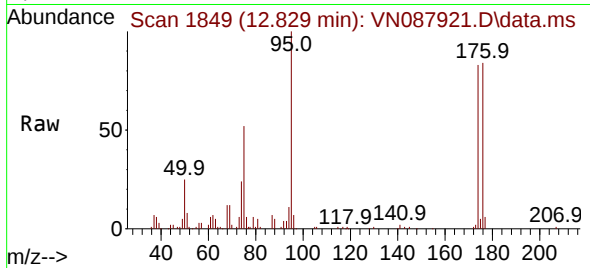




#60
4-Bromofluorobenzene
Concen: 24.886 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. -0.000 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

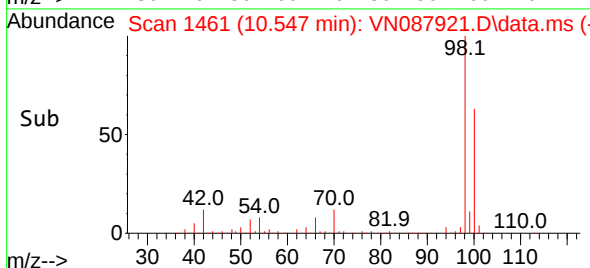
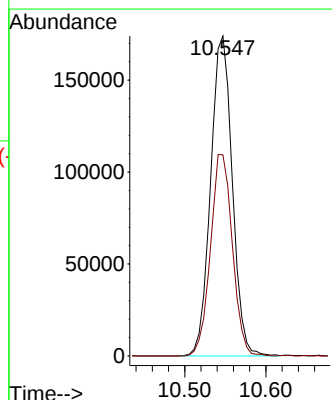
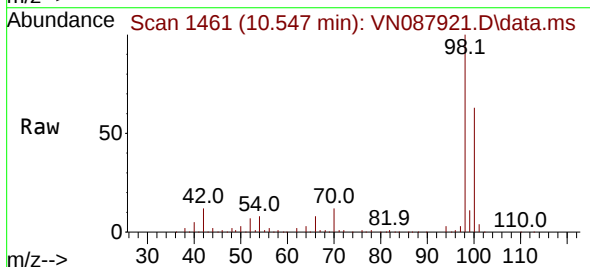
Instrument :
MSVOA_N
ClientSampleId :
002 35th Ave(Aug)RE

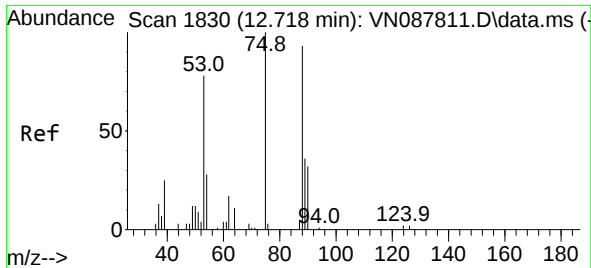
Tgt Ion: 95 Resp: 95868
Ion Ratio Lower Upper
95 100
174 74.6 55.4 83.0
176 73.8 51.5 77.3



#63
Toluene-d8
Concen: 28.941 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. -0.000 min
Lab File: VN087921.D
Acq: 22 Sep 2025 14:47

Tgt Ion: 98 Resp: 322465
Ion Ratio Lower Upper
98 100
100 63.5 50.6 76.0





#77

t-1,4-Dichloro-2-butene

Concen: 30.162 ug/l

RT: 12.823 min Scan# 11

Delta R.T. 0.106 min

Lab File: VN087921.D

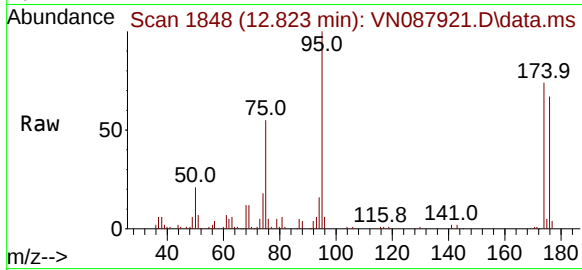
Acq: 22 Sep 2025 14:47

Instrument :

MSVOA_N

ClientSampleId :

002 35th Ave(Aug)RE



Tgt Ion: 75 Resp: 51273

Ion Ratio Lower Upper

75 100

53 0.0 45.3 135.9#

89 0.0 18.8 56.3#

