

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
 Data File : VN087876.D
 Acq On : 17 Sep 2025 13:53
 Operator : JC\MD
 Sample : Q3120-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 11 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Sep 18 03:10:51 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)

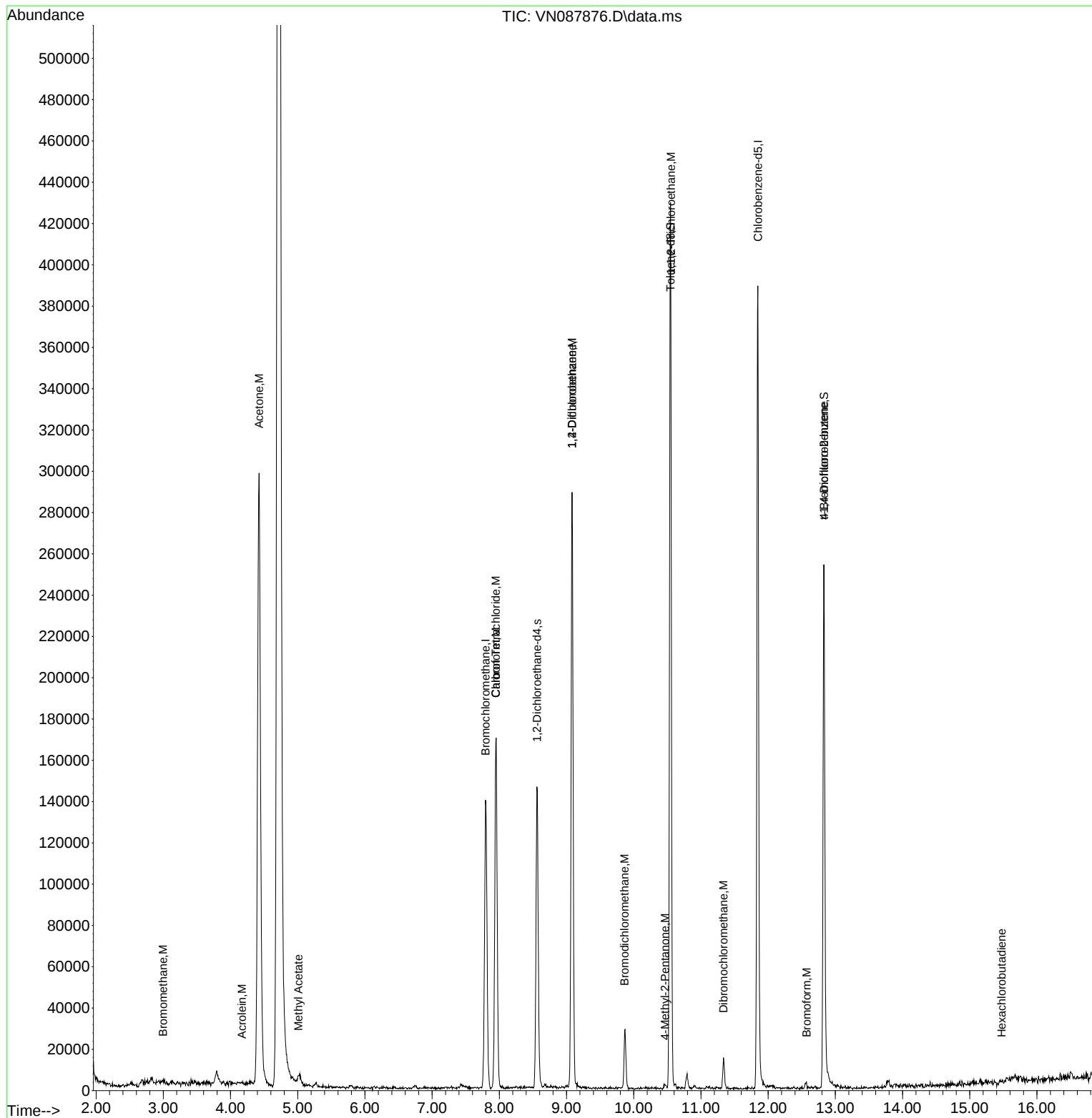
Internal Standards						
1) Bromochloromethane	7.794	128	48910	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.083	114	249908	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.847	117	220815	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.559	65	120299	28.793	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.967%		
60) 4-Bromofluorobenzene	12.829	95	87702	24.701	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	82.333%		
63) Toluene-d8	10.547	98	294762	28.704	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	95.667%		
Target Compounds						
					Qvalue	
5) Bromomethane	2.995	94	508	0.240	ug/l #	46
12) Methyl Acetate	5.012	43	3339	0.734	ug/l #	84
13) Acrolein	4.171	56	170	0.210	ug/l #	40
15) Acetone	4.424	58	174459	285.453	ug/l	91
25) Chloroform	7.947	83	164595	25.892	ug/l	95
33) Carbon Tetrachloride	7.947	117	1563	0.364	ug/l #	74
36) 1,2-Dichloroethane	9.083	62	9364	1.889	ug/l #	75
41) Bromodichloromethane	9.865	83	20120	3.935	ug/l #	98
50) 1,1,2-Trichloroethane	10.553	97	10313	3.191	ug/l #	1
53) Dibromochloromethane	11.335	129	7490	2.067	ug/l	99
56) Bromoform	12.571	173	973	0.411	ug/l #	71
58) 4-Methyl-2-Pentanone	10.465	43	3077	0.589	ug/l #	45
77) t-1,4-Dichloro-2-butene	12.829	75	49045	31.304	ug/l #	14
90) Hexachlorobutadiene	15.476	225	235	0.211	ug/l #	61

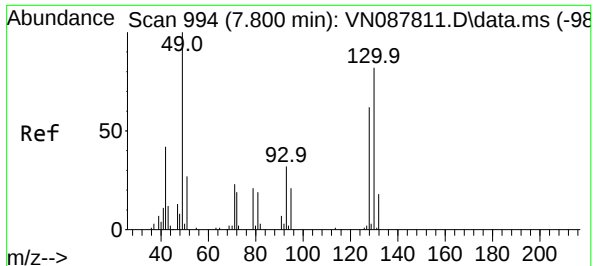
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN091725\
Data File : VN087876.D
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Sample : Q3120-02
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 11 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

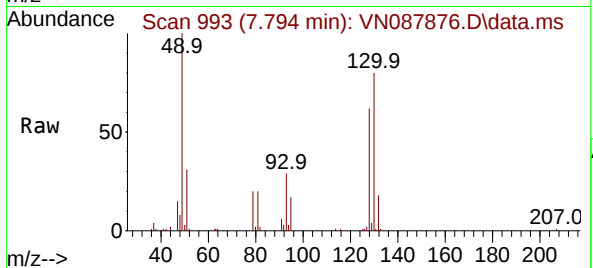
Quant Time: Sep 18 03:10:51 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090425W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 05 03:29:53 2025
Response via : Initial Calibration



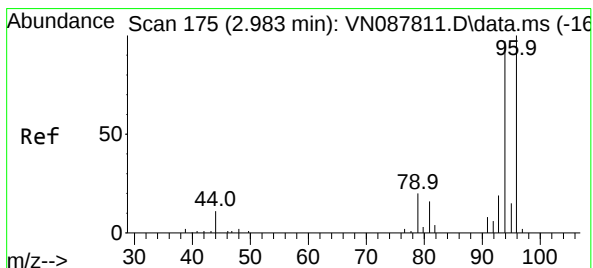
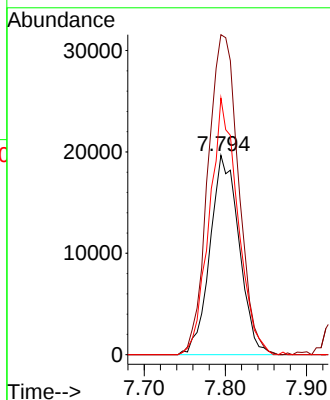
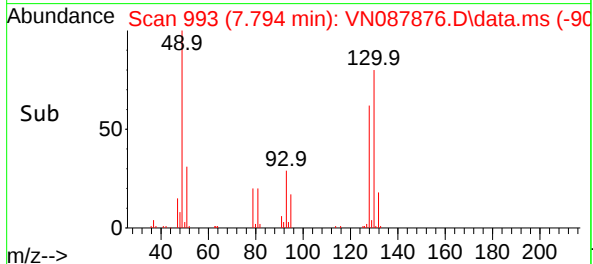


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.794 min Scan# 994
Delta R.T. 0.000 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :

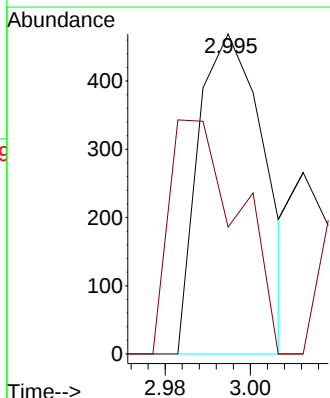
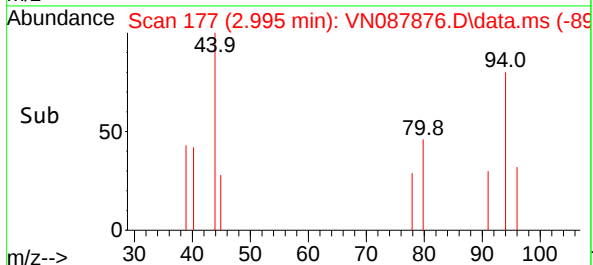
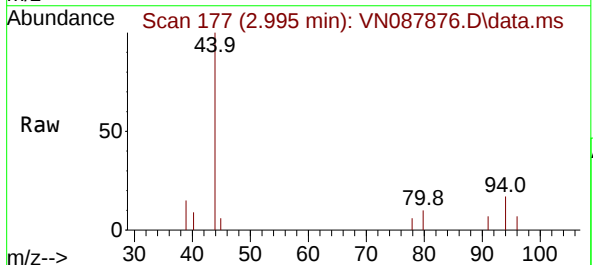


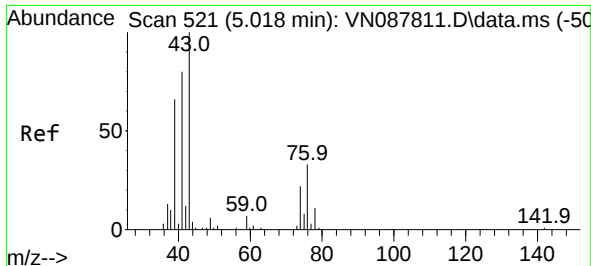
Tgt Ion:128 Resp: 48910
Ion Ratio Lower Upper
128 100
49 169.4 0.0 464.3
130 126.0 0.0 300.5



#5
Bromomethane
Concen: 0.240 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.018 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

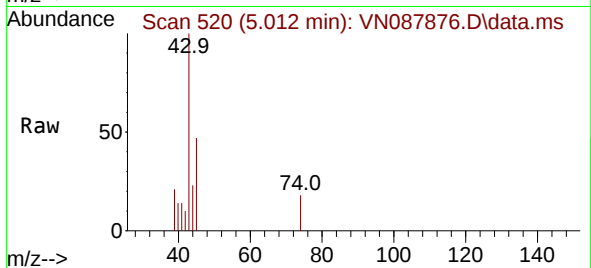
Tgt Ion: 94 Resp: 508
Ion Ratio Lower Upper
94 100
96 39.7 72.2 108.4#



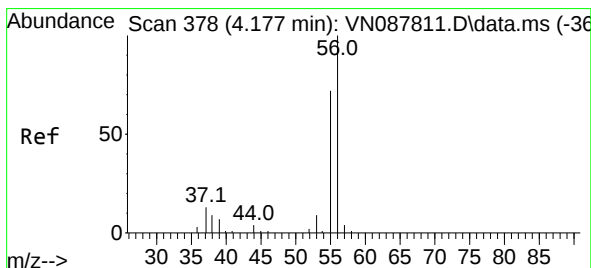
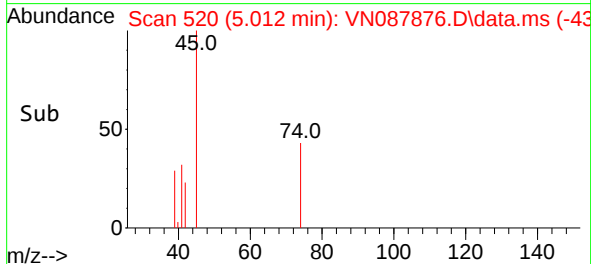
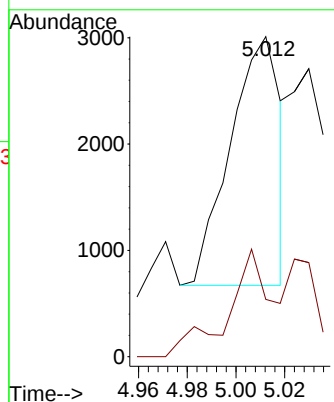


#12
Methyl Acetate
Concen: 0.734 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :

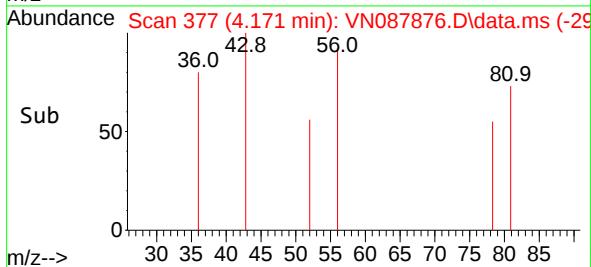
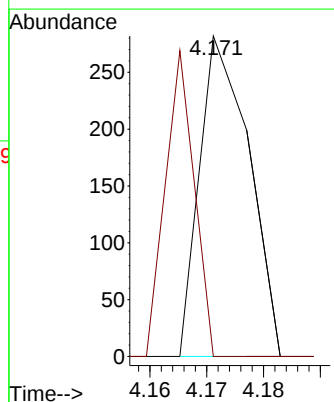
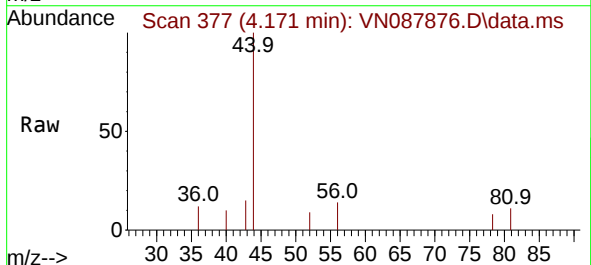


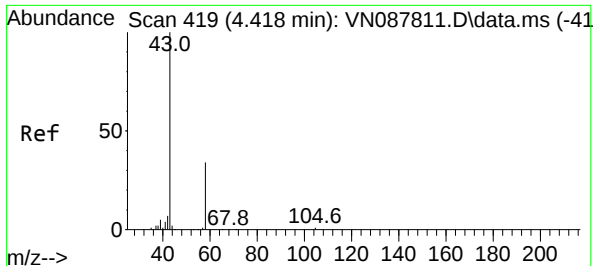
Tgt Ion: 43 Resp: 3339
Ion Ratio Lower Upper
43 100
74 14.5 17.5 26.3#



#13
Acrolein
Concen: 0.210 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

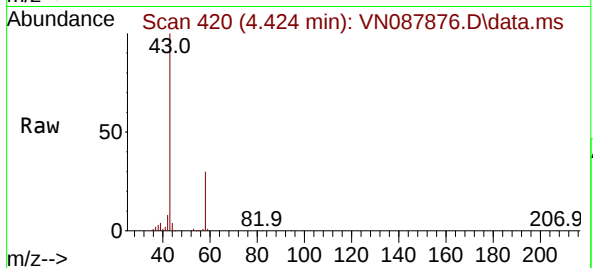
Tgt Ion: 56 Resp: 170
Ion Ratio Lower Upper
56 100
55 70.6 28.6 42.8#



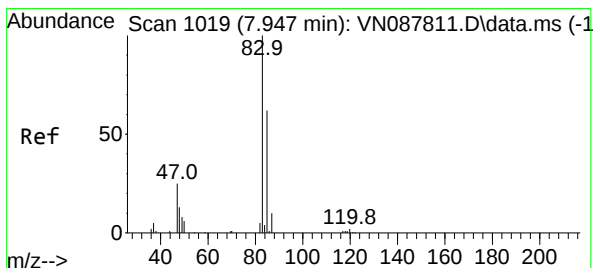
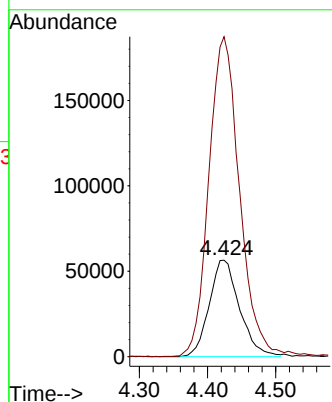
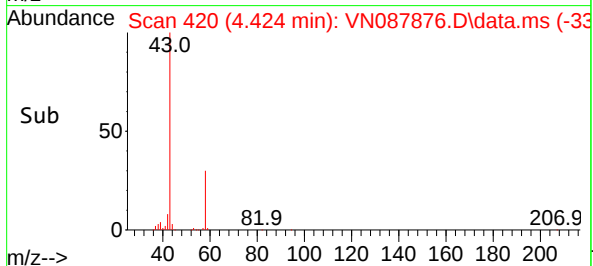


#15
Acetone
Concen: 285.453 ug/l
RT: 4.424 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :

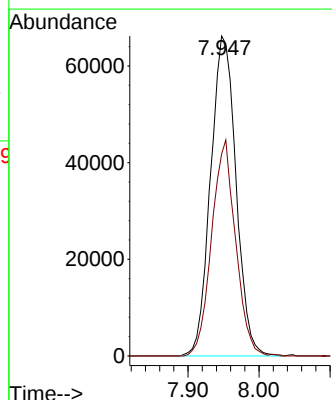
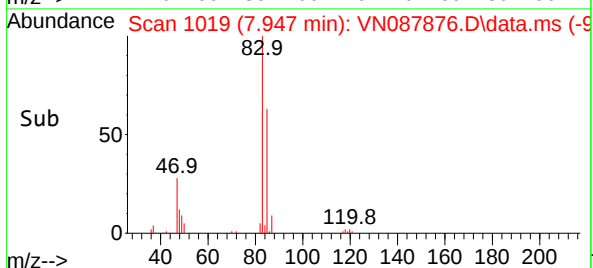
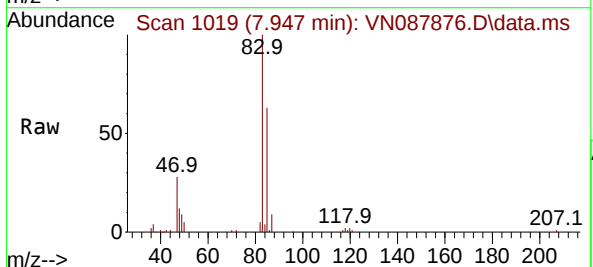


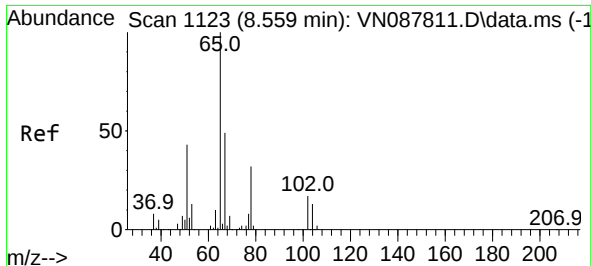
Tgt Ion: 58 Resp: 174459
Ion Ratio Lower Upper
58 100
43 330.8 250.6 376.0



#25
Chloroform
Concen: 25.892 ug/l
RT: 7.947 min Scan# 1019
Delta R.T. -0.006 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Tgt Ion: 83 Resp: 164595
Ion Ratio Lower Upper
83 100
85 63.1 47.7 71.5





#27

1,2-Dichloroethane-d4

Concen: 28.793 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN087876.D

Acq: 17 Sep 2025 13:53

Instrument :

MSVOA_N

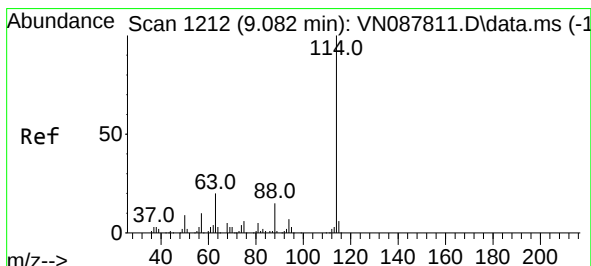
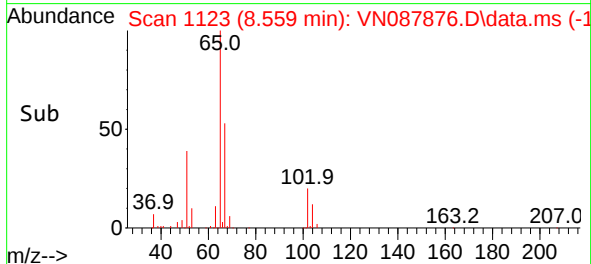
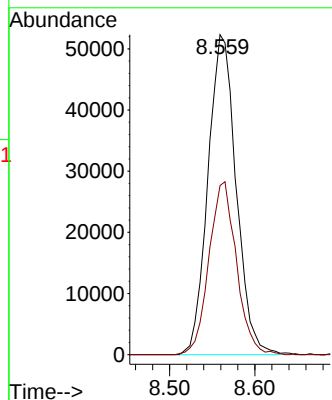
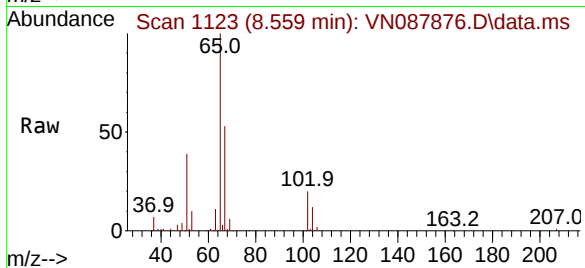
ClientSampleId :

Tgt Ion: 65 Resp: 120299

Ion Ratio Lower Upper

65 100

67 52.7 39.6 59.4



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.083 min Scan# 1212

Delta R.T. 0.000 min

Lab File: VN087876.D

Acq: 17 Sep 2025 13:53

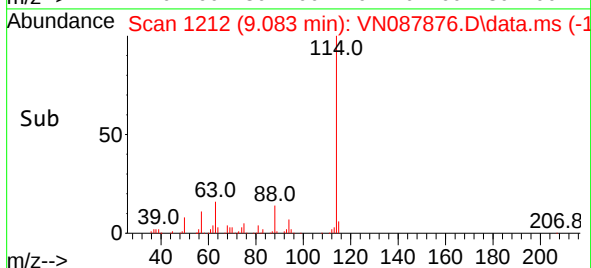
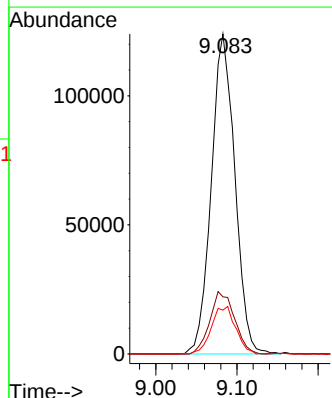
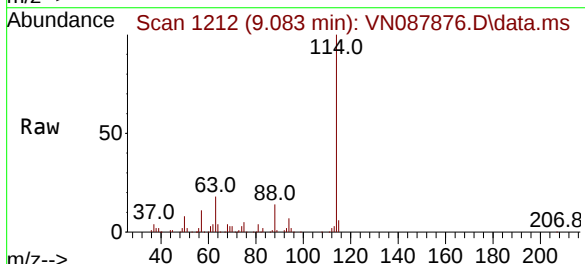
Tgt Ion: 114 Resp: 249908

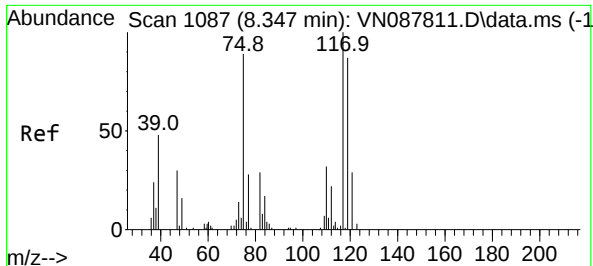
Ion Ratio Lower Upper

114 100

63 20.4 18.3 27.5

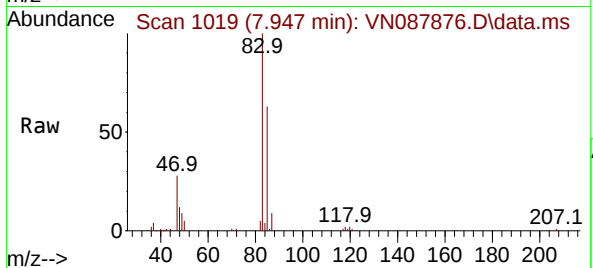
88 15.3 12.4 18.6



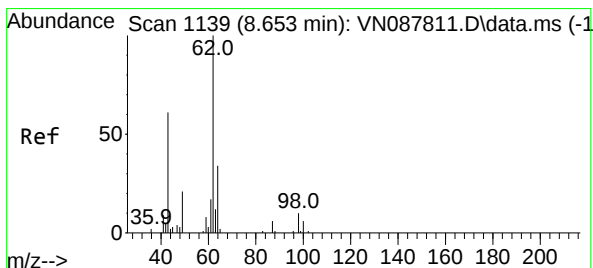
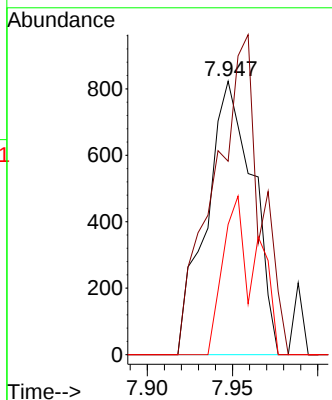
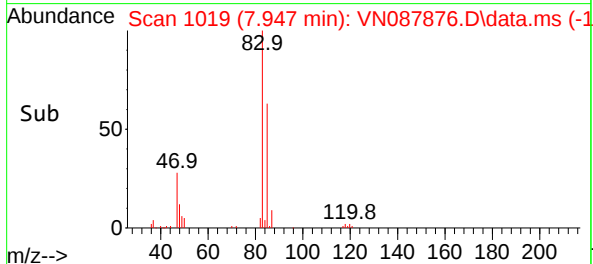


#33
Carbon Tetrachloride
Concen: 0.364 ug/l
RT: 7.947 min Scan# 11
Delta R.T. -0.394 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :

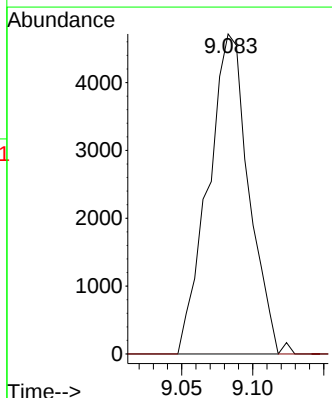
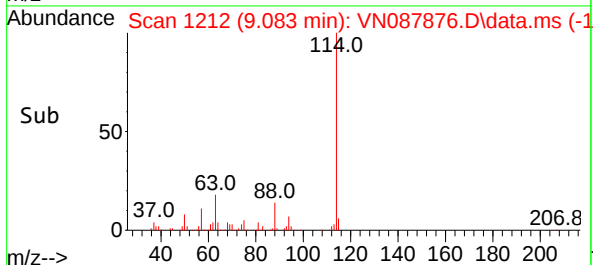
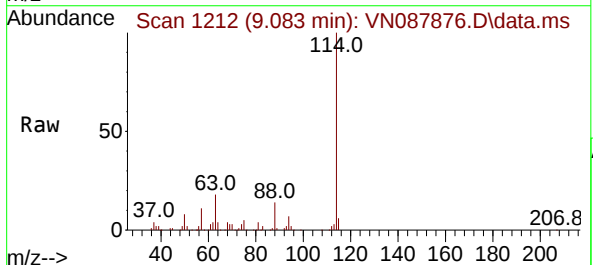


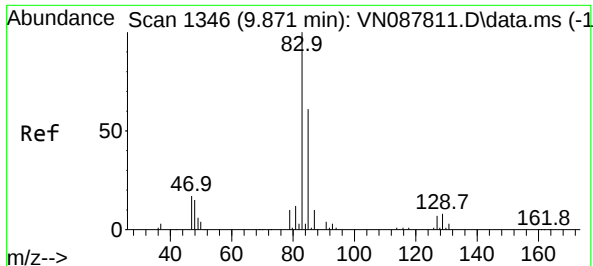
Tgt Ion: 117 Resp: 1563
Ion Ratio Lower Upper
117 100
119 70.7 77.3 115.9#
121 47.6 26.6 39.8#



#36
1,2-Dichloroethane
Concen: 1.889 ug/l
RT: 9.083 min Scan# 1212
Delta R.T. 0.429 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

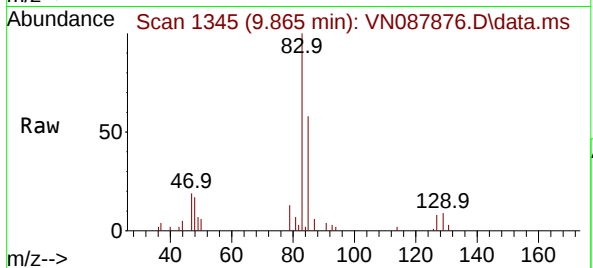
Tgt Ion: 62 Resp: 9364
Ion Ratio Lower Upper
62 100
98 0.0 7.2 10.8#



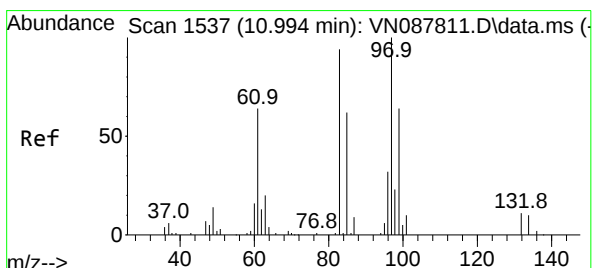
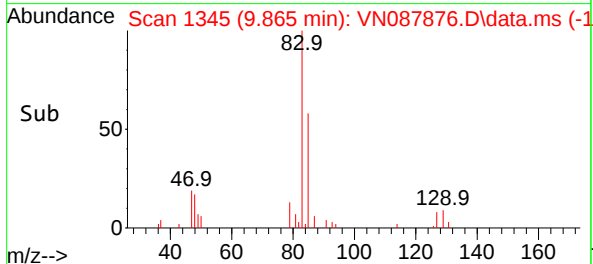
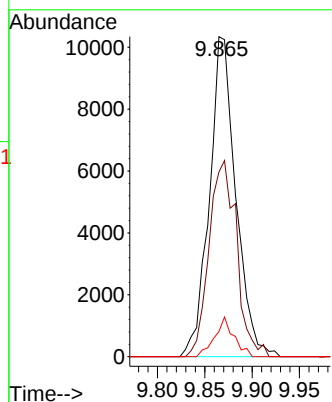


#41
Bromodichloromethane
Concen: 3.935 ug/l
RT: 9.865 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Instrument :
MSVOA_N
ClientSampleId :

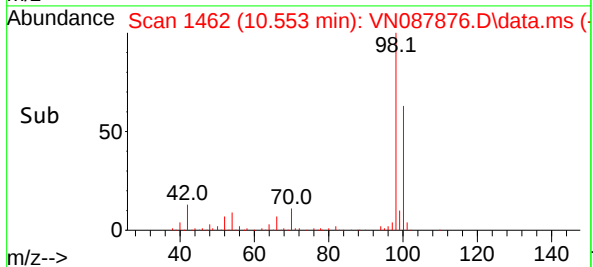
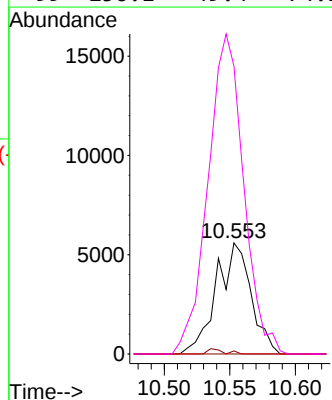
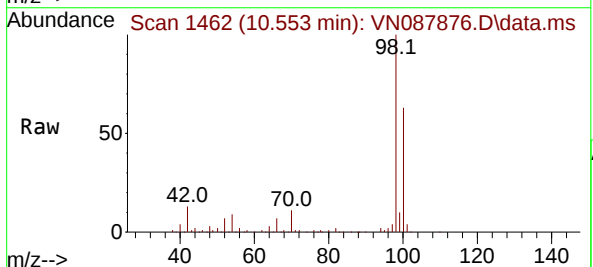


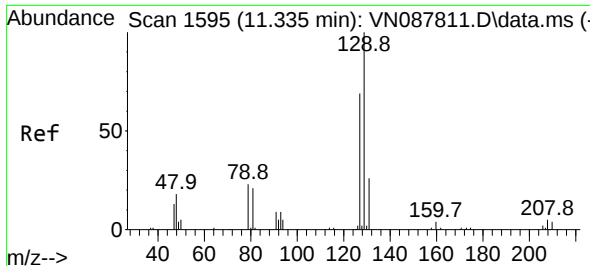
Tgt Ion: 83 Resp: 20120
Ion Ratio Lower Upper
83 100
85 57.7 47.3 70.9
127 7.9 5.2 7.8#



#50
1,1,2-Trichloroethane
Concen: 3.191 ug/l
RT: 10.553 min Scan# 1462
Delta R.T. -0.441 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Tgt Ion: 97 Resp: 10313
Ion Ratio Lower Upper
97 100
83 2.7 70.5 105.7#
85 0.0 46.3 69.5#
99 256.1 49.4 74.2#

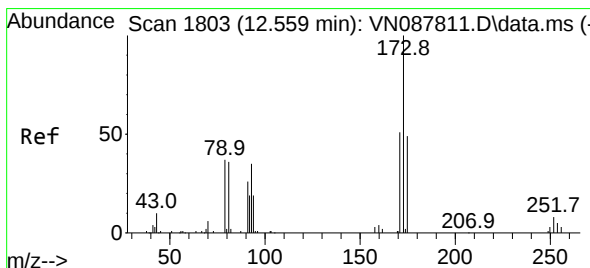
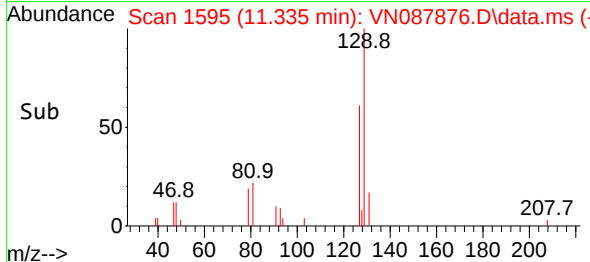
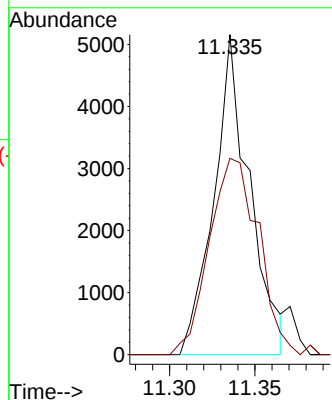
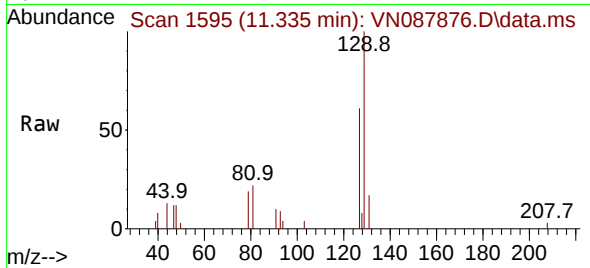




#53
Dibromochloromethane
Concen: 2.067 ug/l
RT: 11.335 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

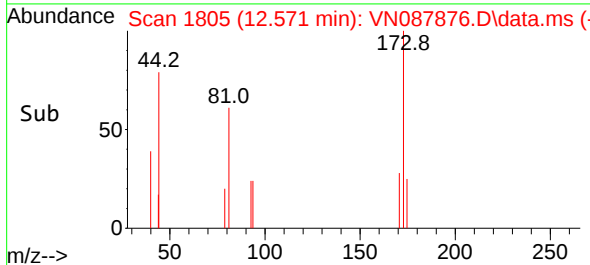
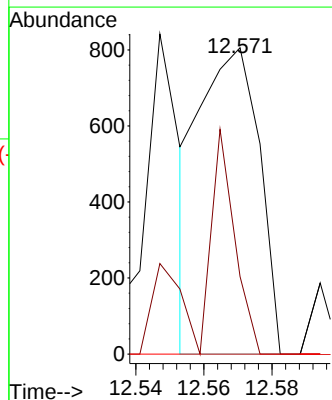
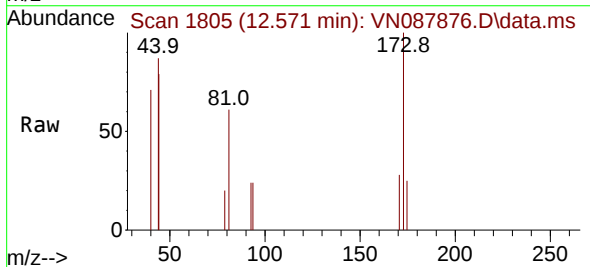
Instrument :
MSVOA_N
ClientSampleId :

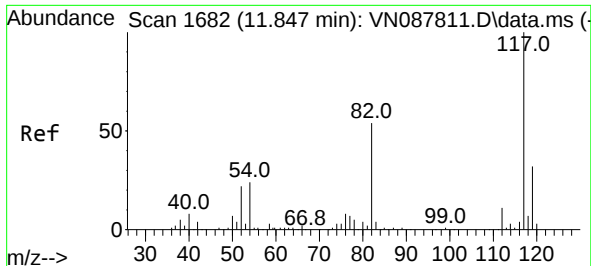
Tgt Ion:129 Resp: 7490
Ion Ratio Lower Upper
129 100
127 84.6 42.6 128.0



#56
Bromoform
Concen: 0.411 ug/l
RT: 12.571 min Scan# 1805
Delta R.T. 0.012 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Tgt Ion:173 Resp: 973
Ion Ratio Lower Upper
173 100
175 28.9 39.8 59.6#
254 0.0 6.2 9.4#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.847 min Scan# 117

Delta R.T. 0.006 min

Lab File: VN087876.D

Acq: 17 Sep 2025 13:53

Instrument :

MSVOA_N

ClientSampleId :

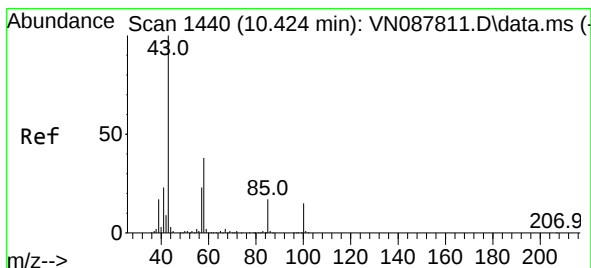
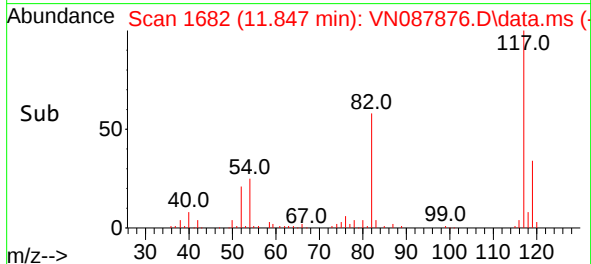
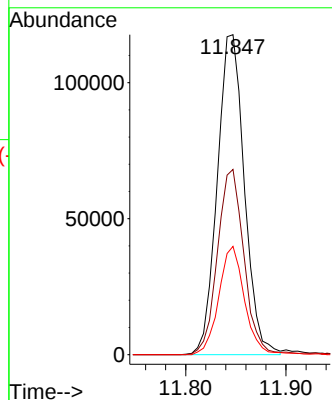
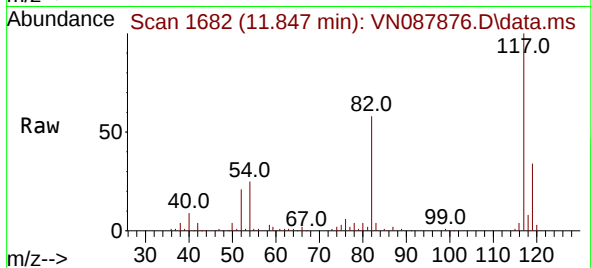
Tgt Ion:117 Resp: 220815

Ion Ratio Lower Upper

117 100

82 56.7 45.9 68.9

119 32.1 25.3 37.9



#58

4-Methyl-2-Pentanone

Concen: 0.589 ug/l

RT: 10.465 min Scan# 1447

Delta R.T. 0.041 min

Lab File: VN087876.D

Acq: 17 Sep 2025 13:53

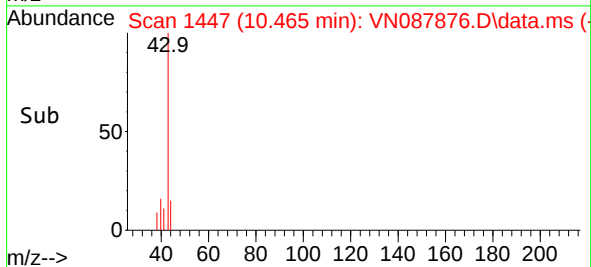
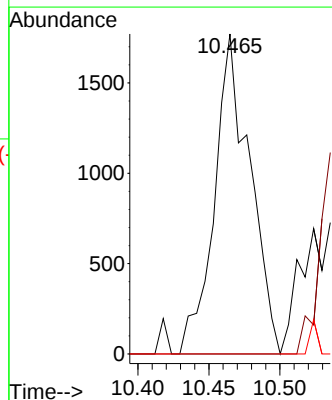
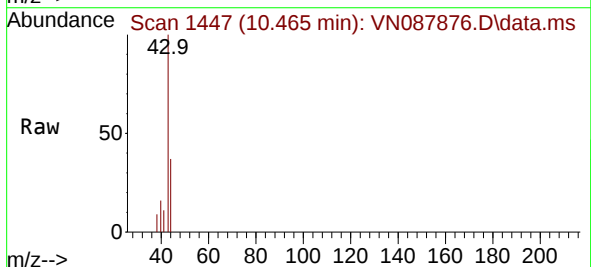
Tgt Ion: 43 Resp: 3077

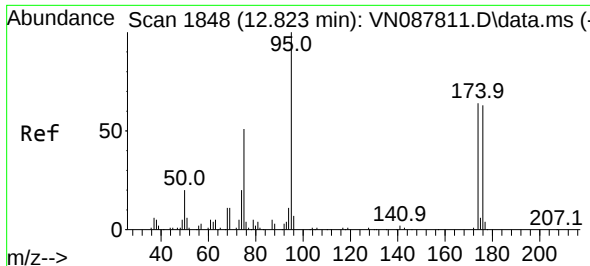
Ion Ratio Lower Upper

43 100

58 0.0 29.6 44.4#

85 0.0 13.0 19.4#

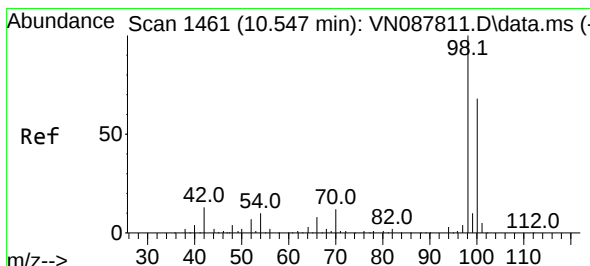
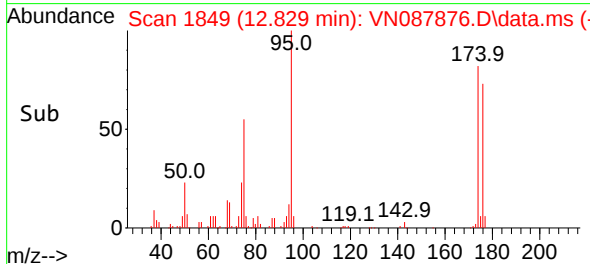
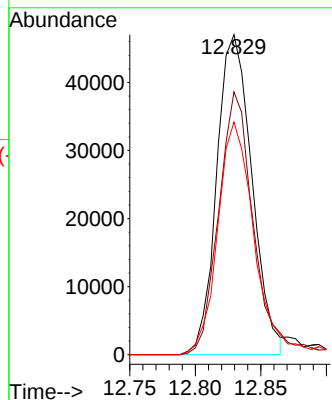
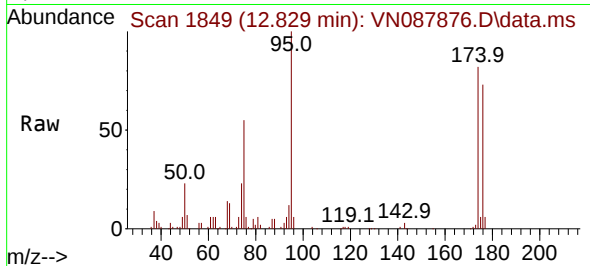




#60
4-Bromofluorobenzene
Concen: 24.701 ug/l
RT: 12.829 min Scan# 1849
Delta R.T. 0.000 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

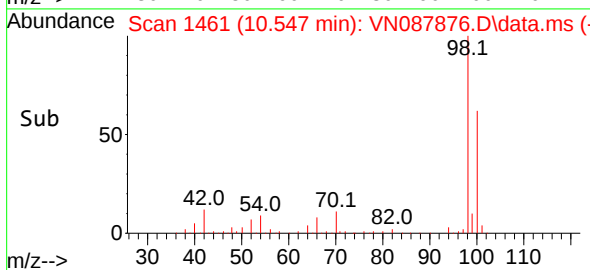
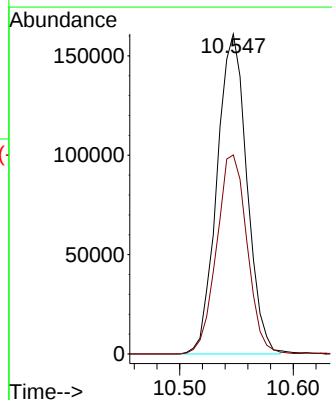
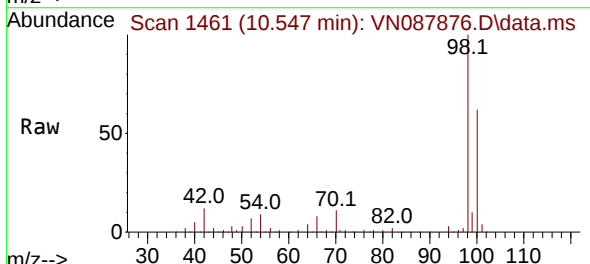
Instrument :
MSVOA_N
ClientSampleId :

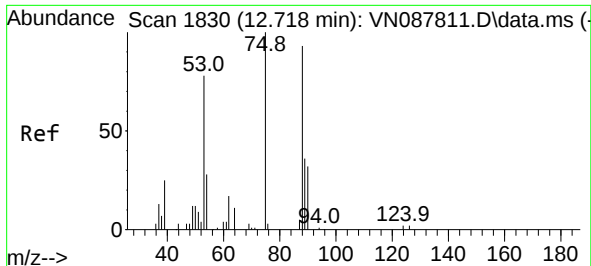
Tgt Ion: 95 Resp: 87702
Ion Ratio Lower Upper
95 100
174 81.5 55.4 83.0
176 75.1 51.5 77.3



#63
Toluene-d8
Concen: 28.704 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN087876.D
Acq: 17 Sep 2025 13:53

Tgt Ion: 98 Resp: 294762
Ion Ratio Lower Upper
98 100
100 63.5 50.6 76.0

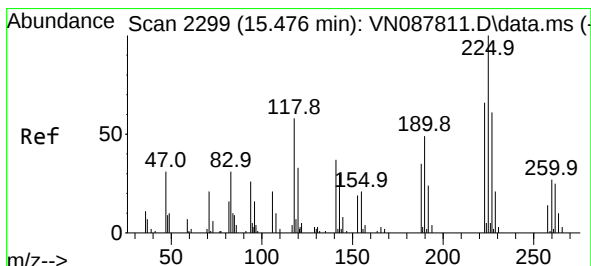
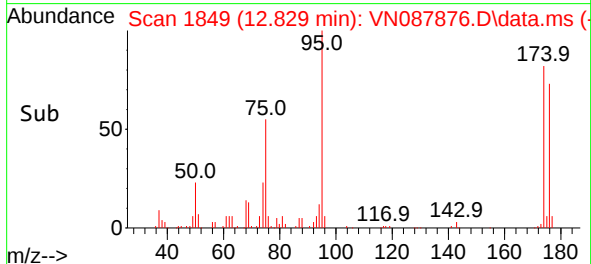
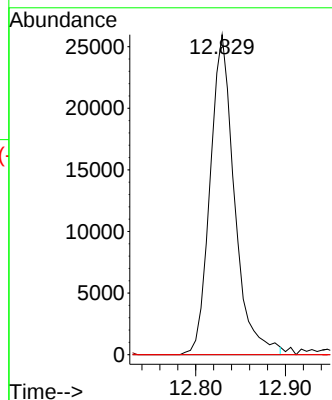
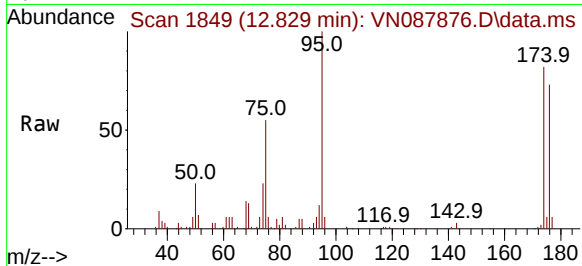




#77
 t-1,4-Dichloro-2-butene
 Concen: 31.304 ug/l
 RT: 12.829 min Scan# 1849
 Delta R.T. 0.112 min
 Lab File: VN087876.D
 Acq: 17 Sep 2025 13:53

Instrument :
 MSVOA_N
 ClientSampleId :

Tgt Ion: 75 Resp: 49045
 Ion Ratio Lower Upper
 75 100
 53 0.0 45.3 135.9#
 89 0.0 18.8 56.3#



#90
 Hexachlorobutadiene
 Concen: 0.211 ug/l
 RT: 15.476 min Scan# 2299
 Delta R.T. 0.006 min
 Lab File: VN087876.D
 Acq: 17 Sep 2025 13:53

Tgt Ion: 225 Resp: 235
 Ion Ratio Lower Upper
 225 100
 223 0.0 0.0 118.2
 227 73.6 0.0 139.0

