

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088523.D
 Acq On : 16 Dec 2025 13:25
 Operator : JC\MD
 Sample : Q3862-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MH09-WC

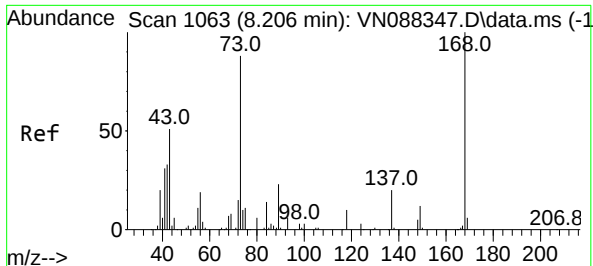
Quant Time: Dec 17 01:40:23 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	379556	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	875774	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	924365	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	400354	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	428963	59.994	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.980%		
35) Dibromofluoromethane	8.147	113	323379	53.283	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 106.560%		
50) Toluene-d8	10.541	98	1202948	53.271	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 106.540%		
62) 4-Bromofluorobenzene	12.823	95	440866	56.899	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 113.800%		
Target Compounds						Qvalue
5) Bromomethane	2.995	94	913	0.305	ug/l	99
7) Trichlorofluoromethane	3.524	101	4353	0.497	ug/l #	78
11) Tert butyl alcohol	5.500	59	1228	1.076	ug/l #	83
16) Acetone	4.430	43	83269	32.202	ug/l	96
18) Methyl Acetate	5.024	43	14360	1.866	ug/l	94
20) Methylene Chloride	5.271	84	52338	9.460	ug/l #	84
25) 2-Butanone	7.477	43	10836	2.607	ug/l	93
30) Chloroform	7.947	83	6814	0.668	ug/l	95
31) Cyclohexane	8.194	56	10199	1.085	ug/l #	41
36) 1,1-Dichloropropene	8.200	75	37213	3.973	ug/l #	51
37) Ethyl Acetate	7.553	43	4547	0.369	ug/l #	82
38) Carbon Tetrachloride	8.206	117	43253	4.639	ug/l #	15
43) Isopropyl Acetate	8.665	43	35315	1.877	ug/l #	89
48) Methyl methacrylate	9.724	41	174083	20.276	ug/l #	45
49) 1,4-Dioxane	9.706	88	58	0.531	ug/l #	1
51) 4-Methyl-2-Pentanone	10.424	43	17887	1.613	ug/l #	69
54) cis-1,3-Dichloropropene	10.335	75	63797	5.763	ug/l #	61
57) 1,3-Dichloropropane	11.182	76	5197	0.469	ug/l #	42
59) 2-Hexanone	11.182	43	88849	12.716	ug/l #	53
76) 1,2,3-Trichloropropane	12.823	75	241654	25.771	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	241654	73.111	ug/l #	1
94) Hexachlorobutadiene	15.464	225	721	0.272	ug/l #	63

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

Quant Time: Dec 17 01:40:23 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
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QLast Update : Tue Nov 25 01:34:52 2025
Response via : Initial Calibration

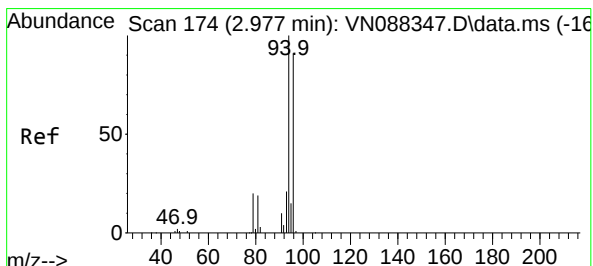
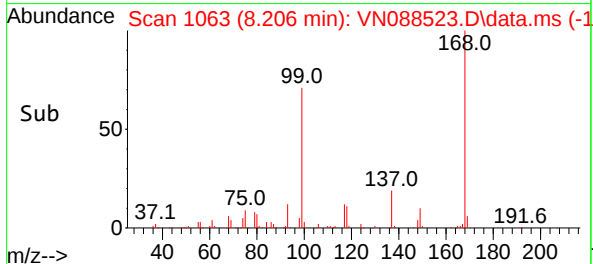
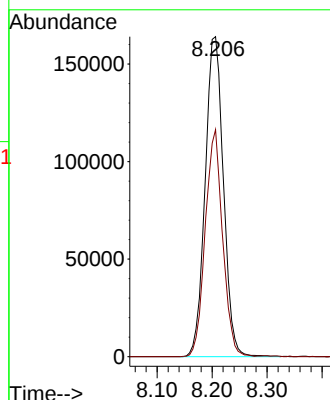
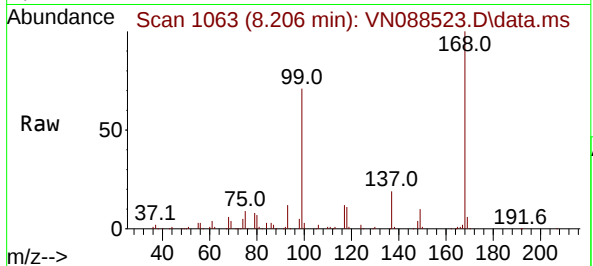




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

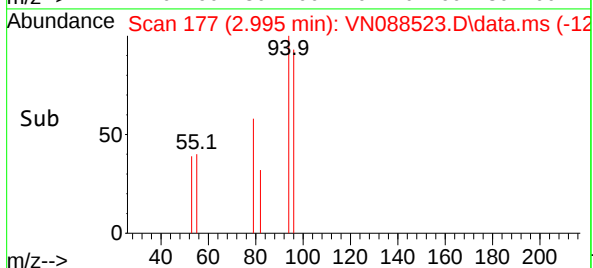
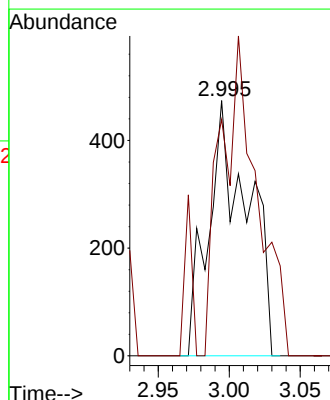
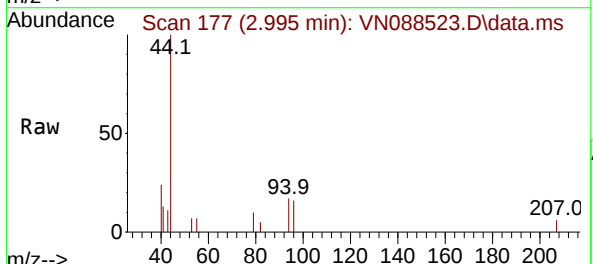
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

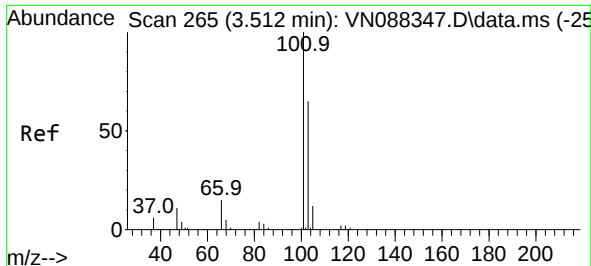
Tgt Ion:168 Resp: 379556
Ion Ratio Lower Upper
168 100
99 70.9 57.1 85.7



#5
Bromomethane
Concen: 0.305 ug/l
RT: 2.995 min Scan# 177
Delta R.T. 0.018 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion: 94 Resp: 913
Ion Ratio Lower Upper
94 100
96 92.6 73.2 109.8

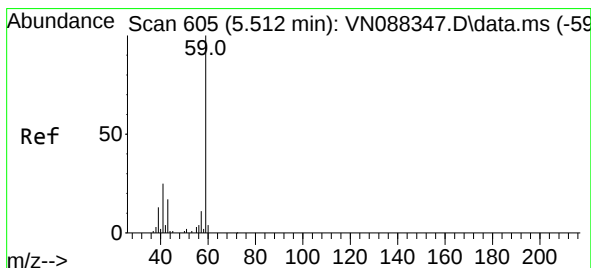
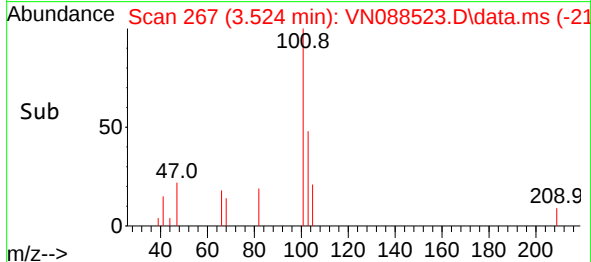
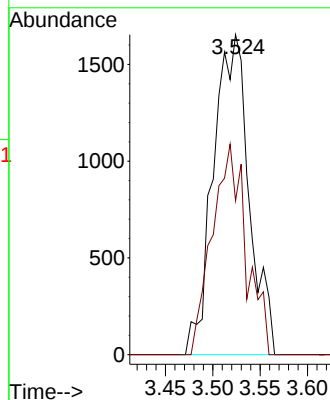
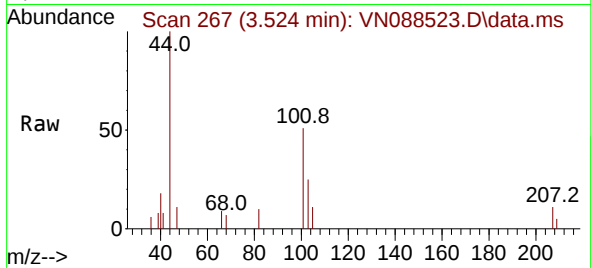




#7
 Trichlorofluoromethane
 Concen: 0.497 ug/l
 RT: 3.524 min Scan# 20
 Delta R.T. 0.012 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

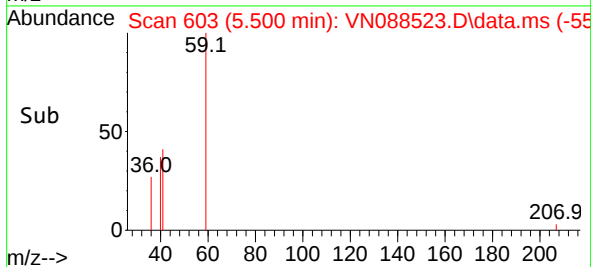
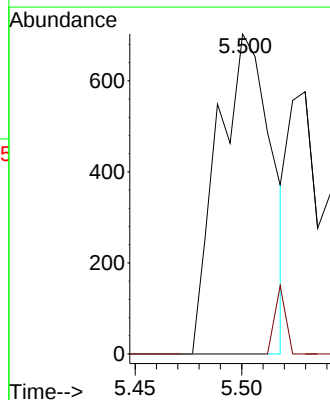
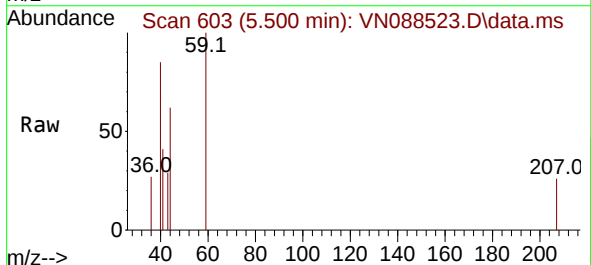
Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MH09-WC

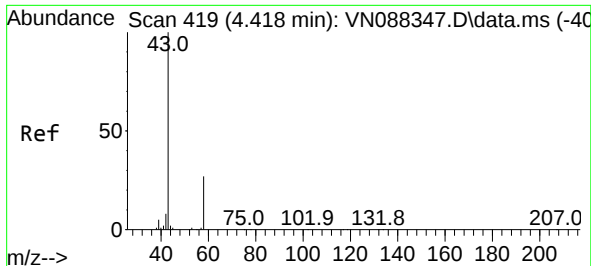
Tgt Ion:101 Resp: 4353
 Ion Ratio Lower Upper
 101 100
 103 48.1 52.3 78.5#



#11
 Tert butyl alcohol
 Concen: 1.076 ug/l
 RT: 5.500 min Scan# 603
 Delta R.T. -0.012 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

Tgt Ion: 59 Resp: 1228
 Ion Ratio Lower Upper
 59 100
 57 4.3 8.5 12.7#

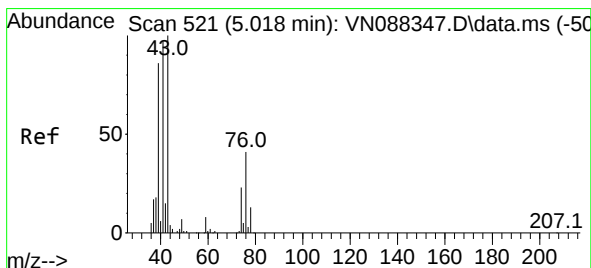
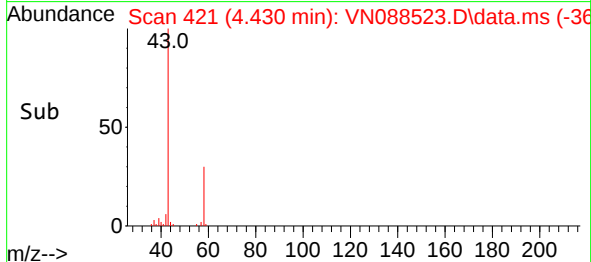
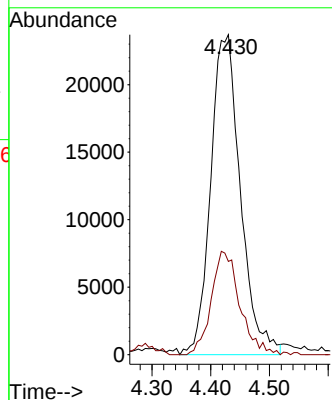
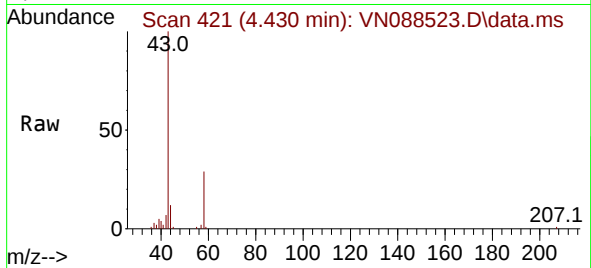




#16
Acetone
Concen: 32.202 ug/l
RT: 4.430 min Scan# 419
Delta R.T. 0.012 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

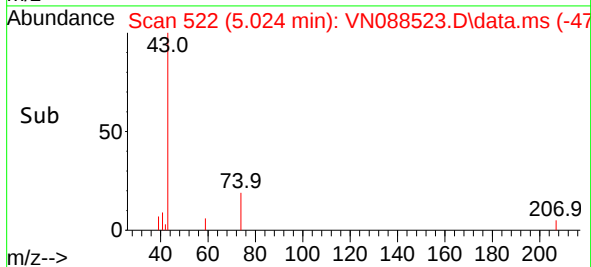
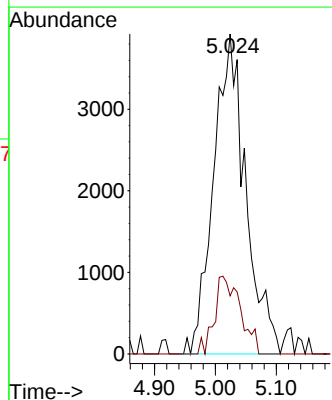
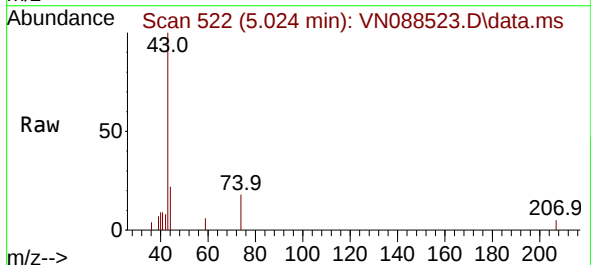
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

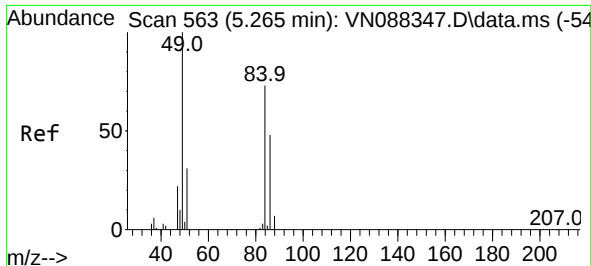
Tgt Ion: 43 Resp: 83269
Ion Ratio Lower Upper
43 100
58 29.2 21.7 32.5



#18
Methyl Acetate
Concen: 1.866 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion: 43 Resp: 14360
Ion Ratio Lower Upper
43 100
74 19.6 17.9 26.9

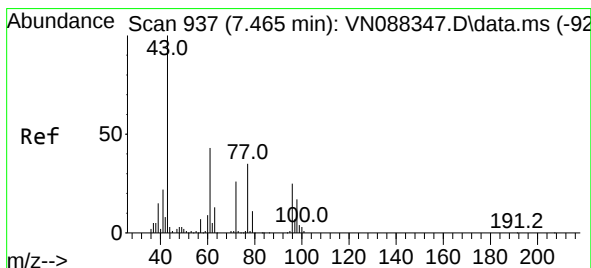
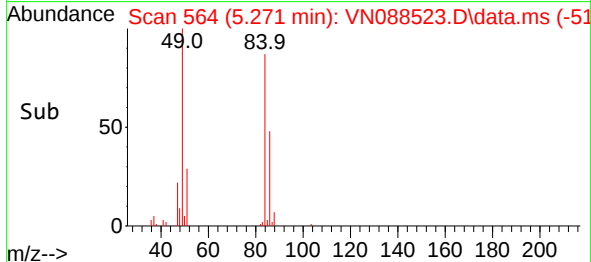
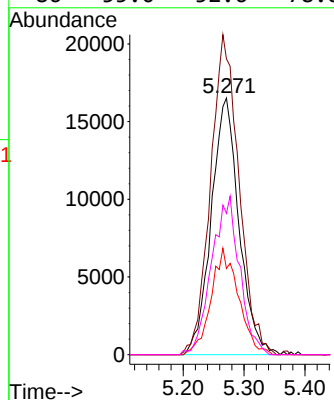
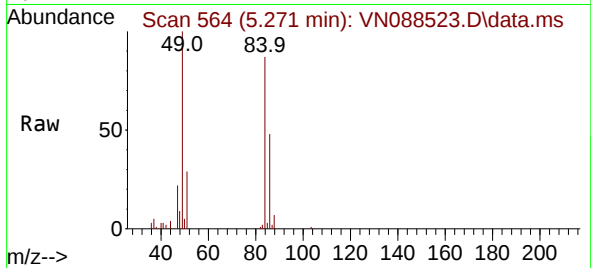




#20
Methylene Chloride
Concen: 9.460 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

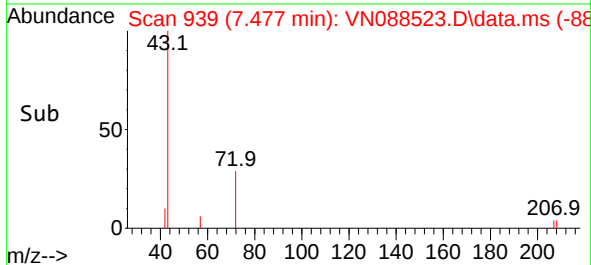
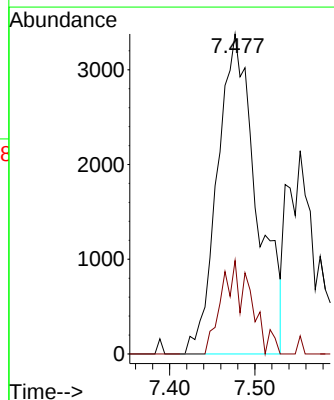
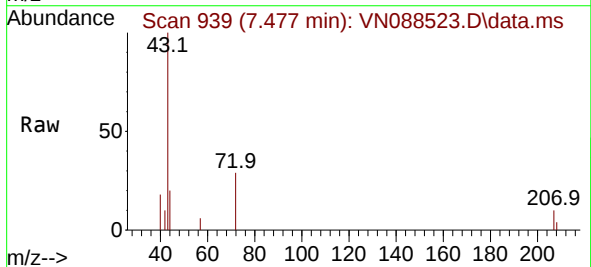
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

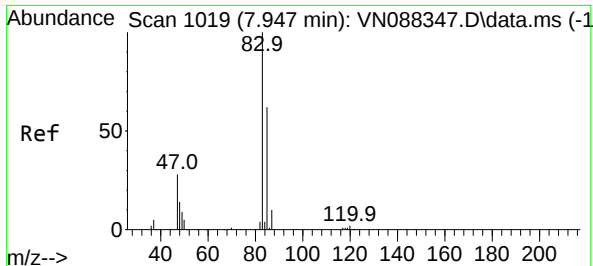
Tgt Ion:	84	Resp:	52338
Ion	Ratio	Lower	Upper
84	100		
49	115.3	110.2	165.2
51	33.6	34.1	51.1#
86	55.0	52.6	78.8



#25
2-Butanone
Concen: 2.607 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion:	43	Resp:	10836
Ion	Ratio	Lower	Upper
43	100		
72	29.2	20.5	30.7





#30

Chloroform

Concen: 0.668 ug/l

RT: 7.947 min Scan# 1019

Delta R.T. 0.000 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

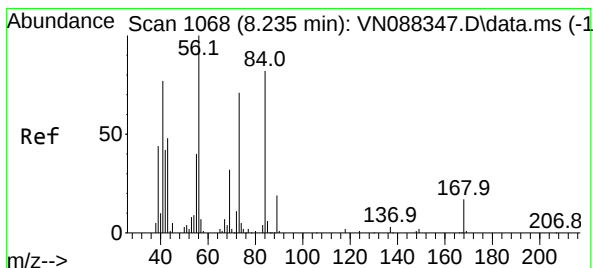
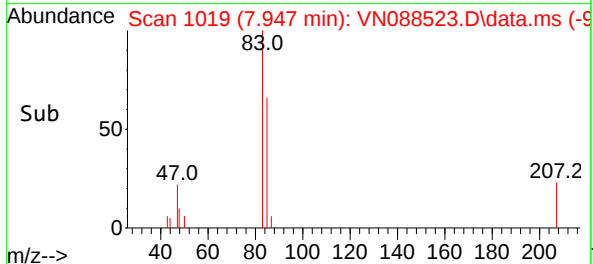
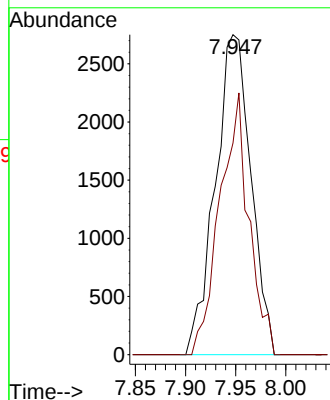
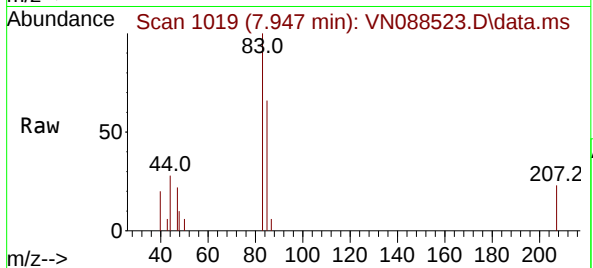
TP02-MH09-WC

Tgt Ion: 83 Resp: 6814

Ion Ratio Lower Upper

83 100

85 66.1 49.8 74.8



#31

Cyclohexane

Concen: 1.085 ug/l

RT: 8.194 min Scan# 1061

Delta R.T. -0.041 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

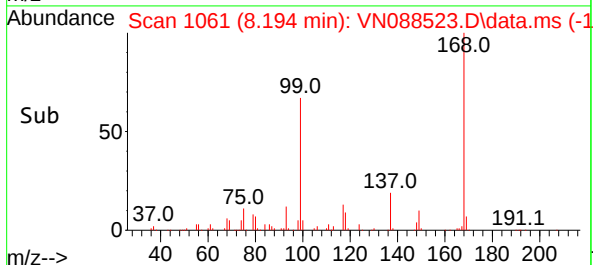
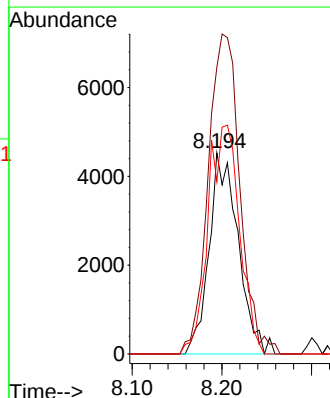
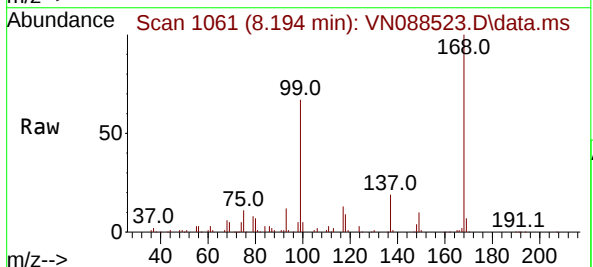
Tgt Ion: 56 Resp: 10199

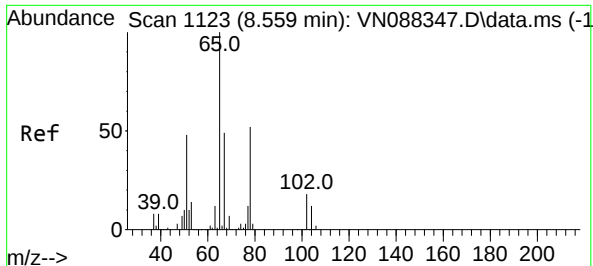
Ion Ratio Lower Upper

56 100

69 142.5 25.3 37.9#

84 85.8 65.4 98.2





#33

1,2-Dichloroethane-d4

Concen: 59.994 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

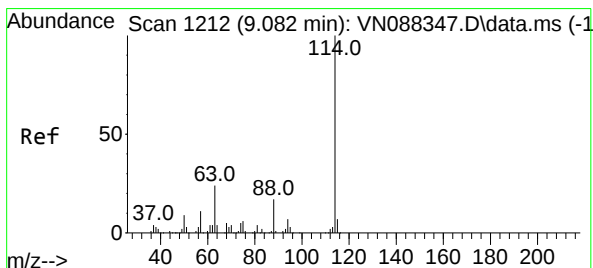
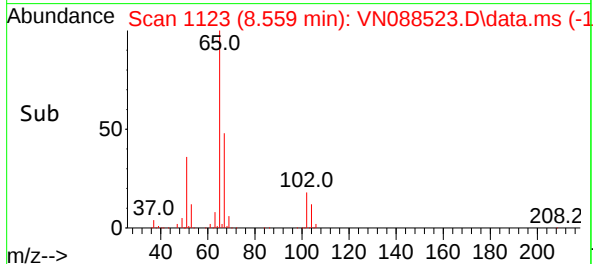
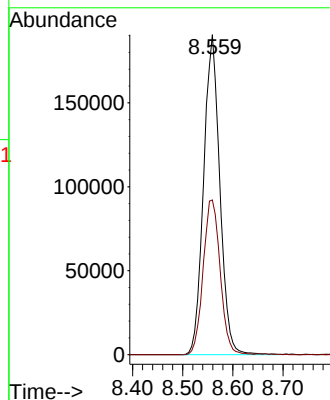
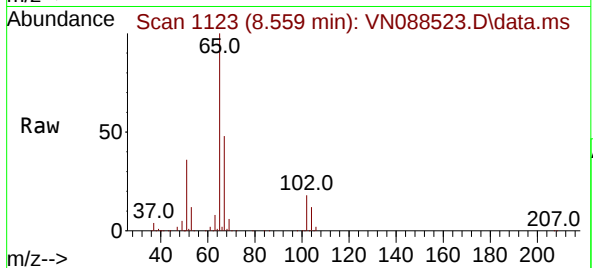
TP02-MH09-WC

Tgt Ion: 65 Resp: 428963

Ion Ratio Lower Upper

65 100

67 50.7 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

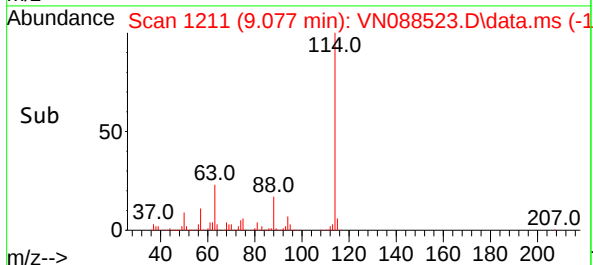
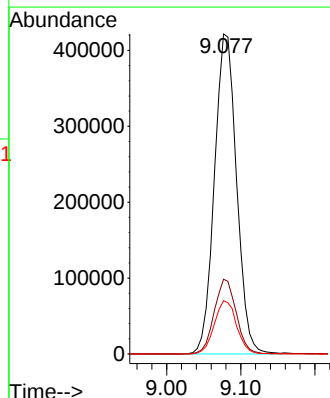
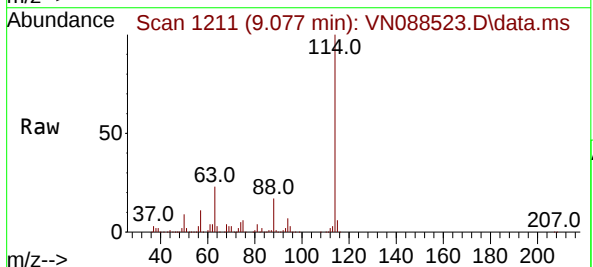
Tgt Ion: 114 Resp: 875774

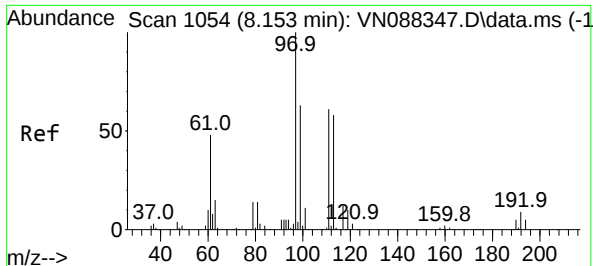
Ion Ratio Lower Upper

114 100

63 23.3 0.0 49.0

88 16.7 0.0 34.0





#35

Dibromofluoromethane

Concen: 53.283 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

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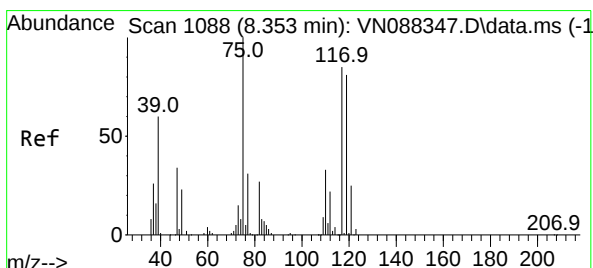
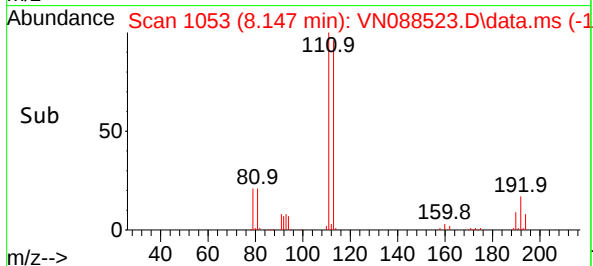
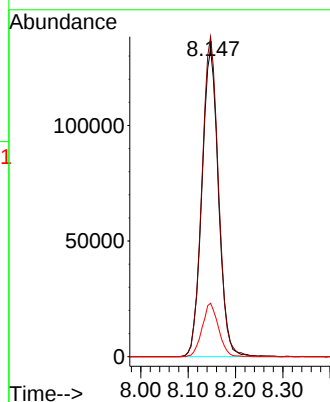
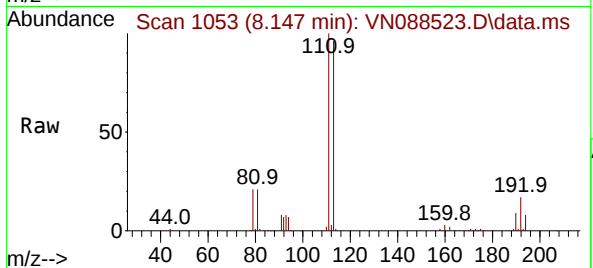
Tgt Ion:113 Resp: 323379

Ion Ratio Lower Upper

113 100

111 103.4 82.5 123.7

192 17.1 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.973 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.153 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

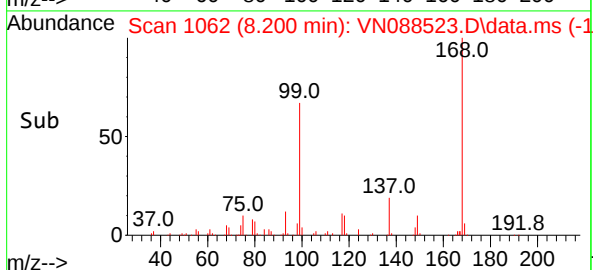
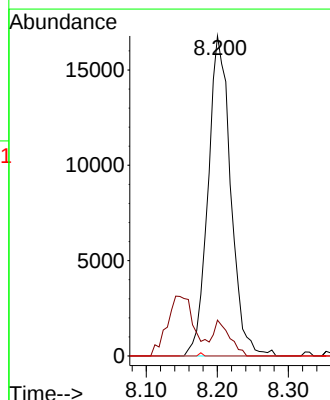
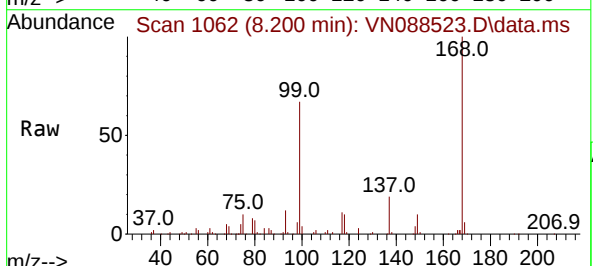
Tgt Ion: 75 Resp: 37213

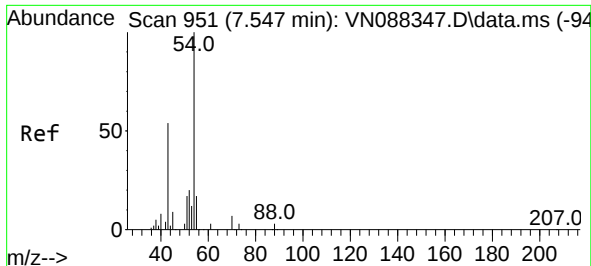
Ion Ratio Lower Upper

75 100

110 7.8 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 0.369 ug/l

RT: 7.553 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

TP02-MH09-WC

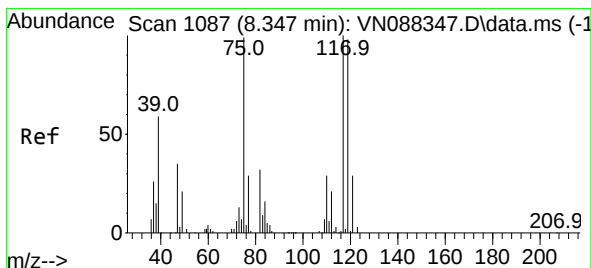
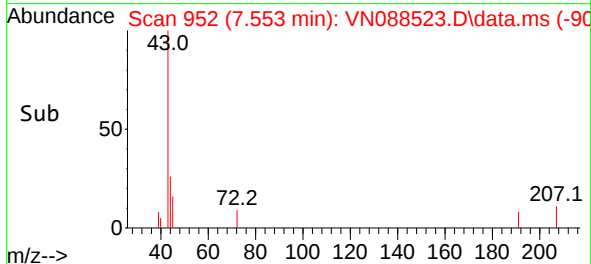
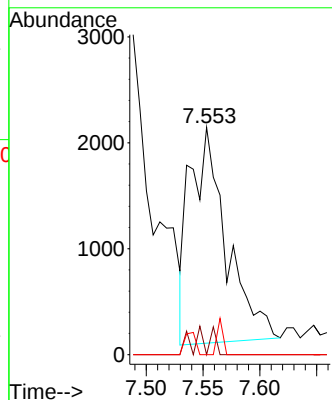
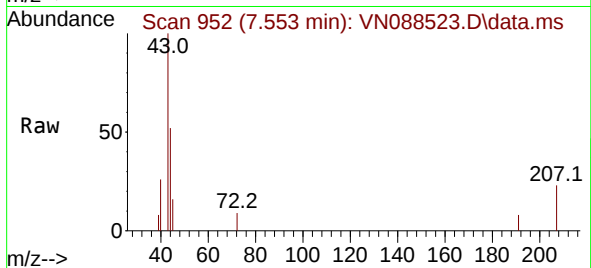
Tgt Ion: 43 Resp: 4547

Ion Ratio Lower Upper

43 100

61 4.1 9.5 14.3#

70 3.1 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.639 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

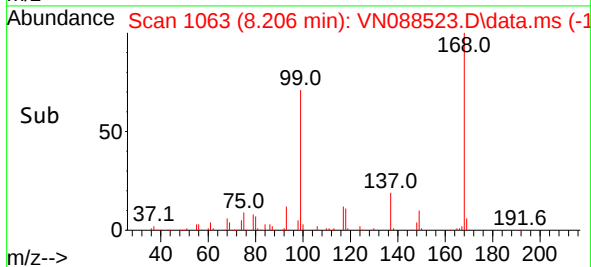
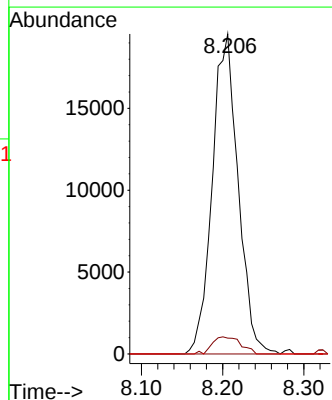
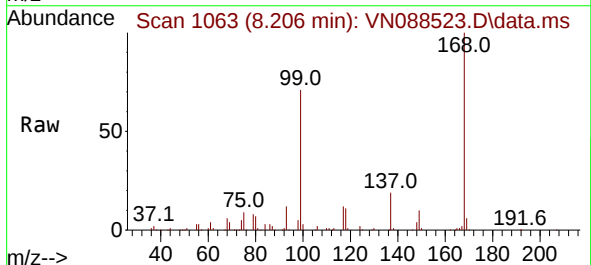
Tgt Ion: 117 Resp: 43253

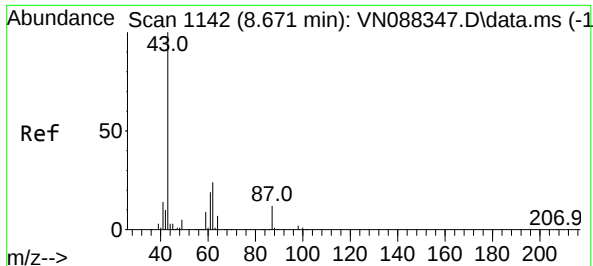
Ion Ratio Lower Upper

117 100

119 5.0 78.2 117.4#

121 0.0 23.4 35.2#

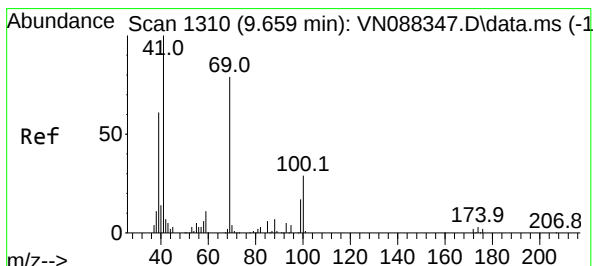
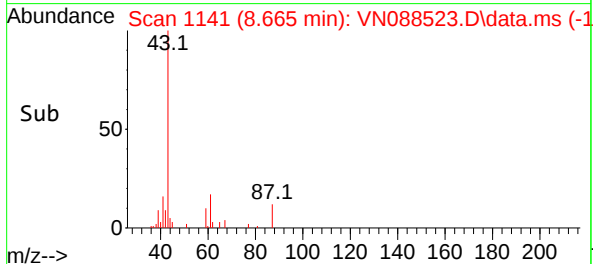
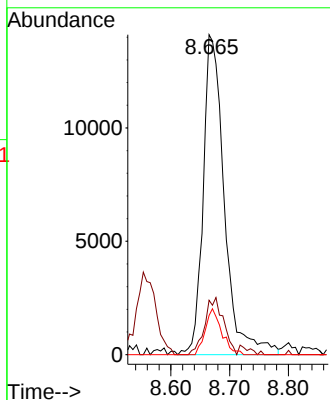
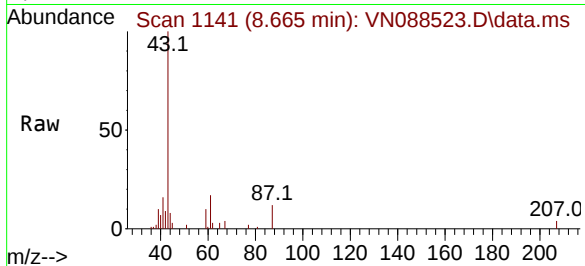




#43
Isopropyl Acetate
Concen: 1.877 ug/l
RT: 8.665 min Scan# 1141
Delta R.T. -0.006 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

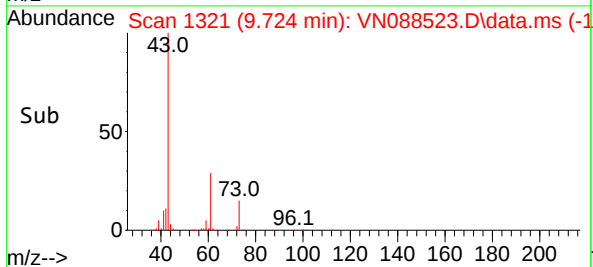
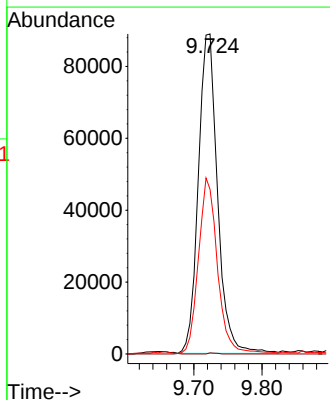
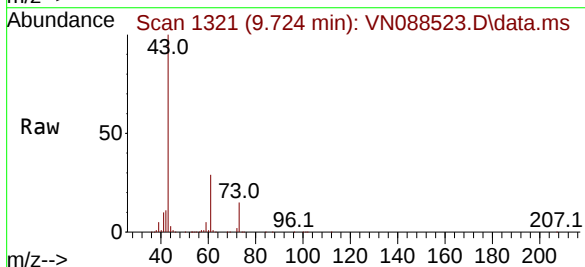
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

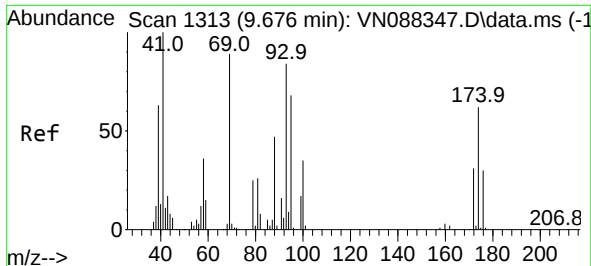
Tgt Ion: 43 Resp: 35315
Ion Ratio Lower Upper
43 100
61 15.8 18.7 28.1#
87 11.1 9.1 13.7



#48
Methyl methacrylate
Concen: 20.276 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.065 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion: 41 Resp: 174083
Ion Ratio Lower Upper
41 100
69 0.1 62.4 93.6#
39 54.0 52.6 79.0





#49

1,4-Dioxane

Concen: 0.531 ug/l

RT: 9.706 min Scan# 11

Delta R.T. 0.030 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

TP02-MH09-WC

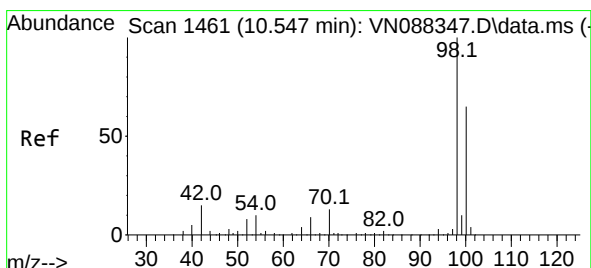
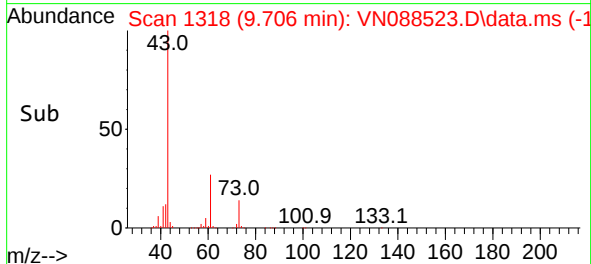
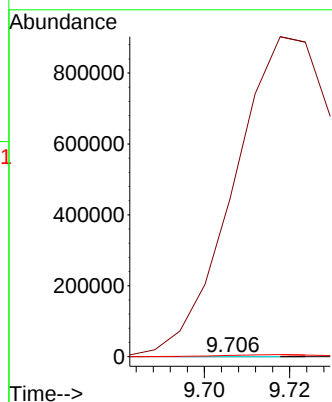
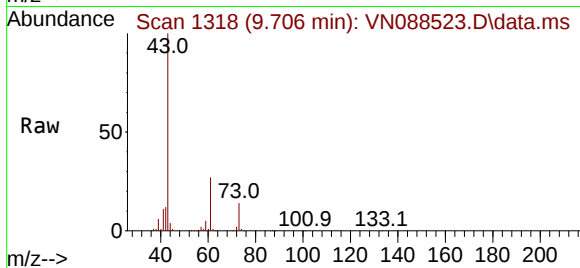
Tgt Ion: 88 Resp: 58

Ion Ratio Lower Upper

88 100

43 3014105.2 0.0 0.0#

58 19581.0 62.0 93.0#



#50

Toluene-d8

Concen: 53.271 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088523.D

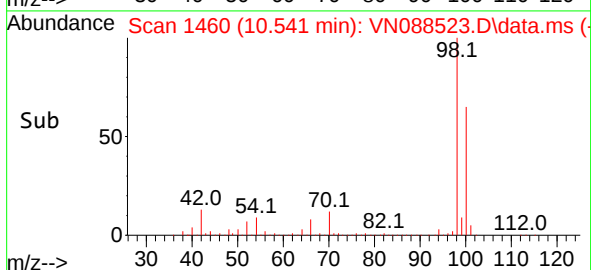
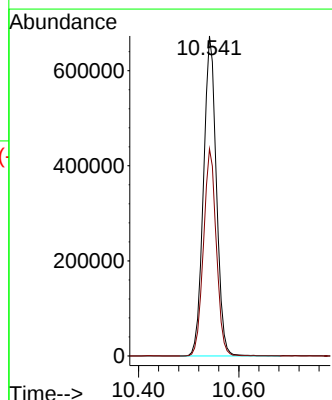
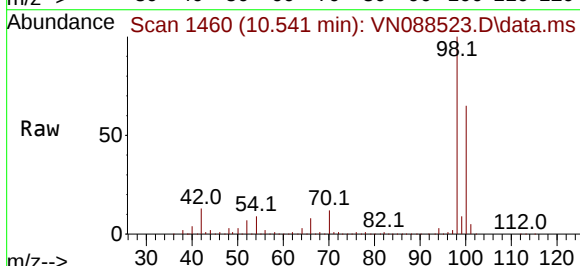
Acq: 16 Dec 2025 13:25

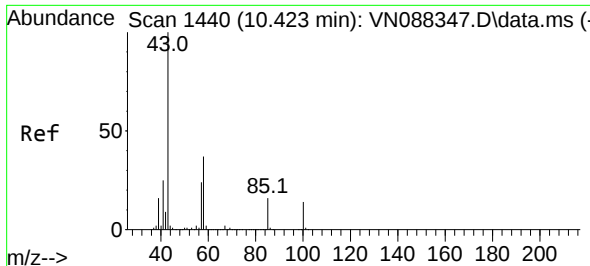
Tgt Ion: 98 Resp: 1202948

Ion Ratio Lower Upper

98 100

100 64.2 52.2 78.2

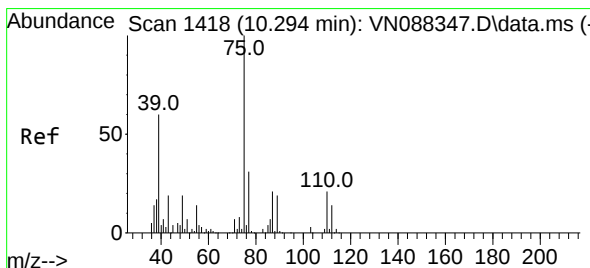
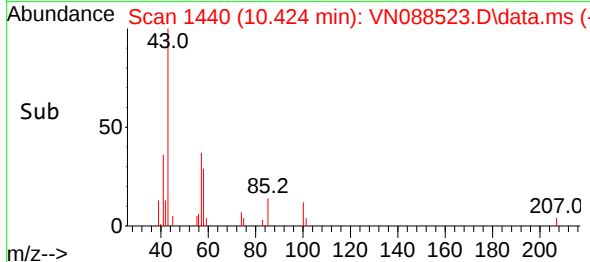
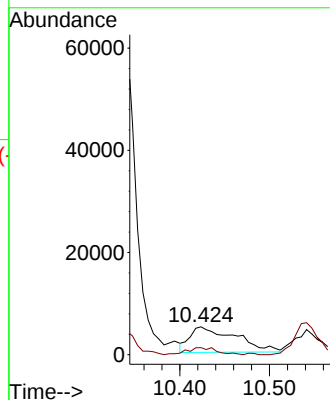
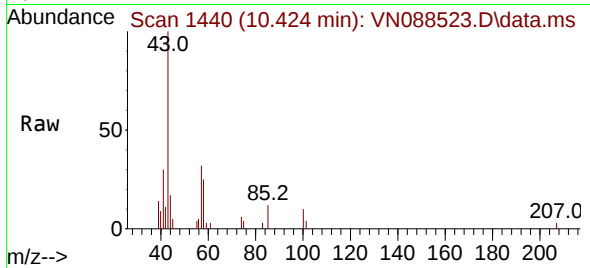




#51
4-Methyl-2-Pentanone
Concen: 1.613 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

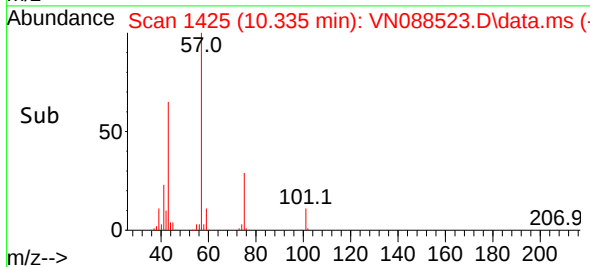
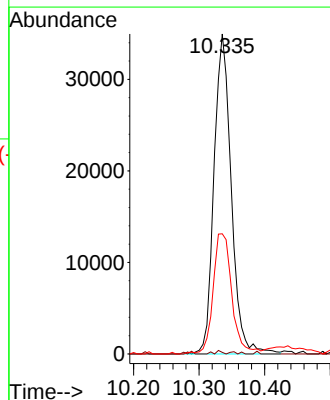
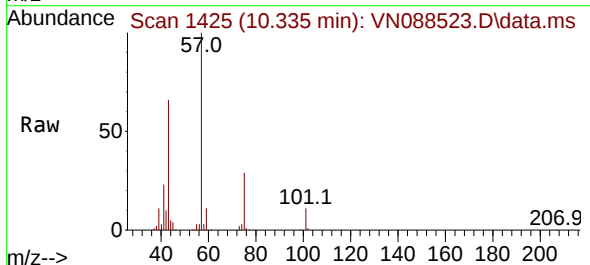
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

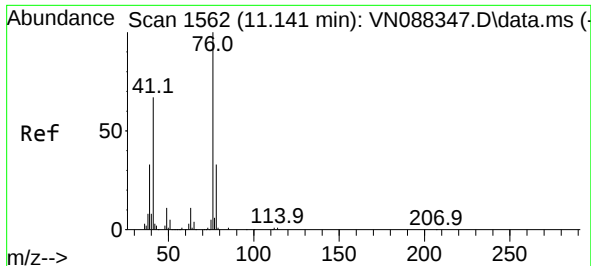
Tgt Ion: 43 Resp: 17887
Ion Ratio Lower Upper
43 100
58 17.9 29.1 43.7#



#54
cis-1,3-Dichloropropene
Concen: 5.763 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.041 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion: 75 Resp: 63797
Ion Ratio Lower Upper
75 100
77 0.5 24.5 36.7#
39 37.5 48.3 72.5#





#57

1,3-Dichloropropane

Concen: 0.469 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.041 min

Lab File: VN088523.D

Acq: 16 Dec 2025 13:25

Instrument :

MSVOA_N

ClientSampleId :

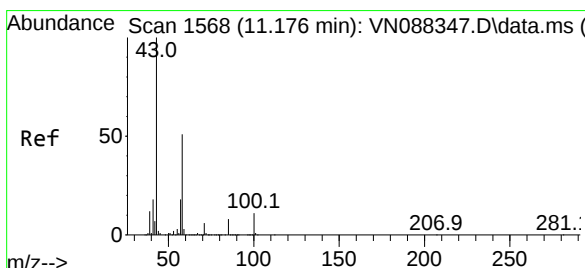
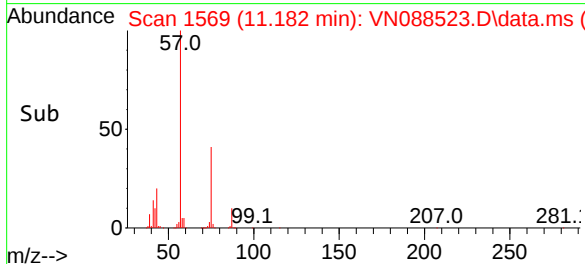
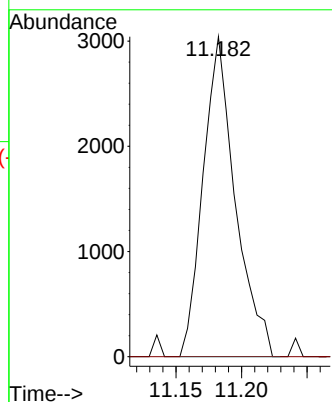
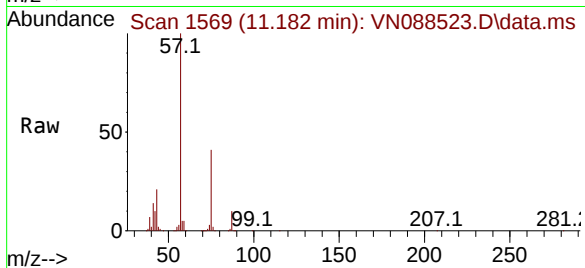
TP02-MH09-WC

Tgt Ion: 76 Resp: 5197

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 12.716 ug/l

RT: 11.182 min Scan# 1569

Delta R.T. 0.006 min

Lab File: VN088523.D

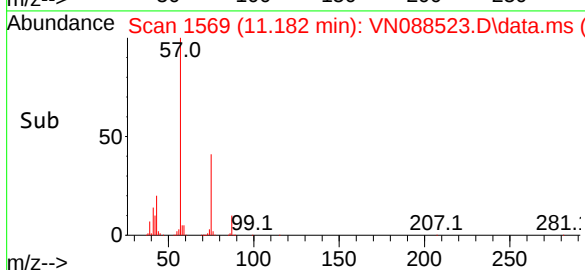
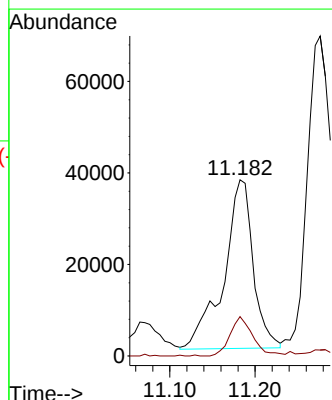
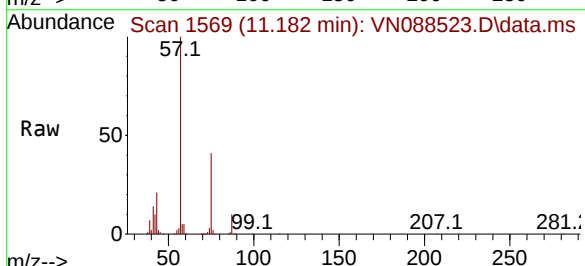
Acq: 16 Dec 2025 13:25

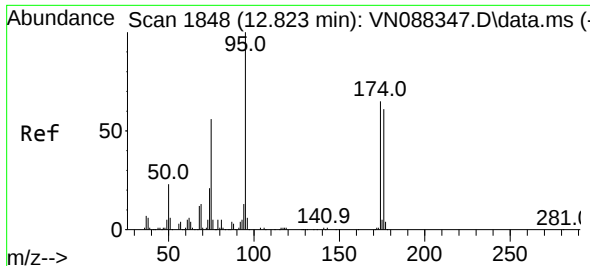
Tgt Ion: 43 Resp: 88849

Ion Ratio Lower Upper

43 100

58 18.0 25.3 75.9#

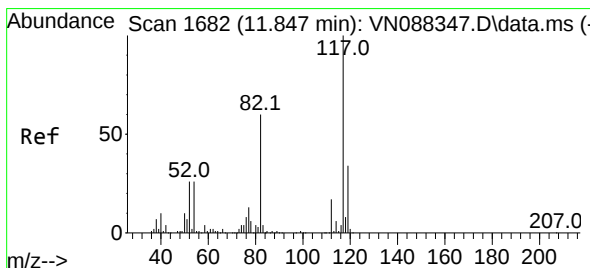
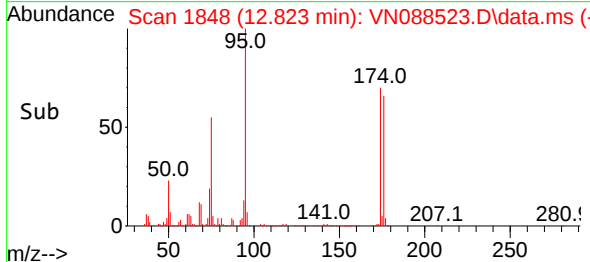
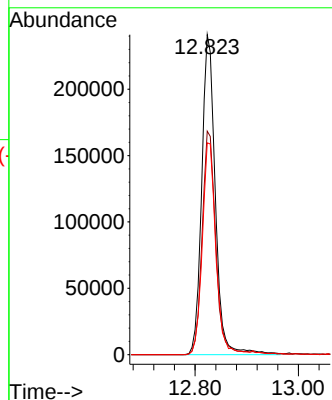
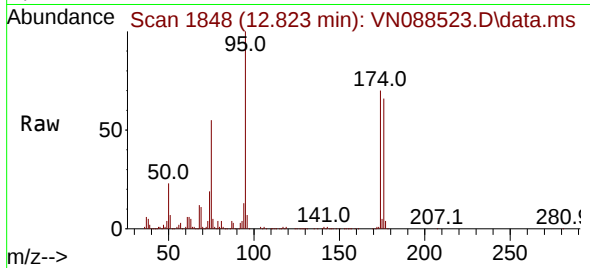




#62
4-Bromofluorobenzene
Concen: 56.899 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

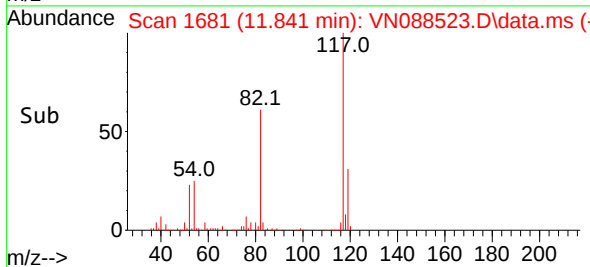
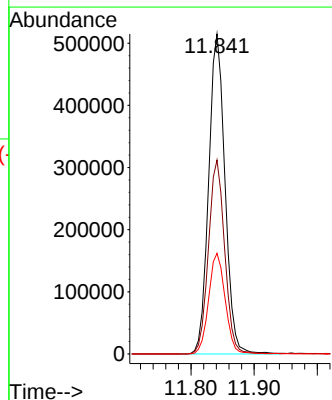
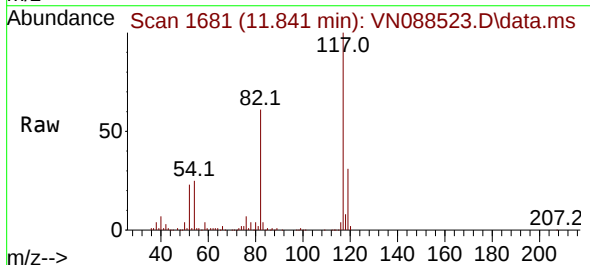
Instrument :
MSVOA_N
ClientSampleId :
TP02-MH09-WC

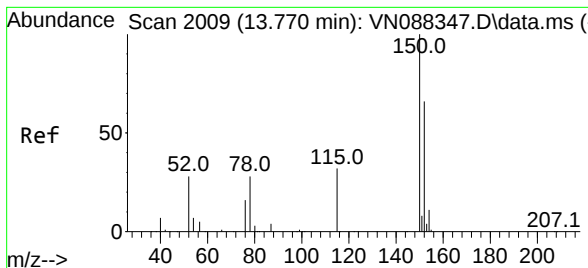
Tgt Ion: 95 Resp: 440866
Ion Ratio Lower Upper
95 100
174 70.8 0.0 139.0
176 66.0 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088523.D
Acq: 16 Dec 2025 13:25

Tgt Ion: 117 Resp: 924365
Ion Ratio Lower Upper
117 100
82 60.6 47.8 71.8
119 31.5 26.9 40.3

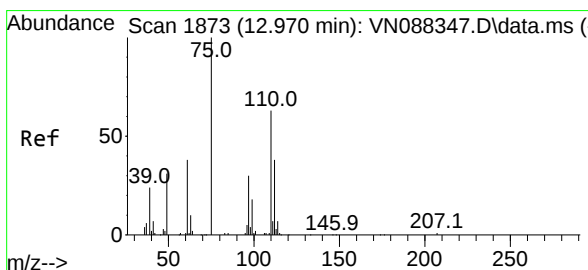
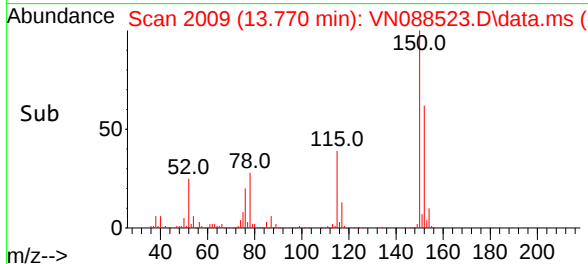
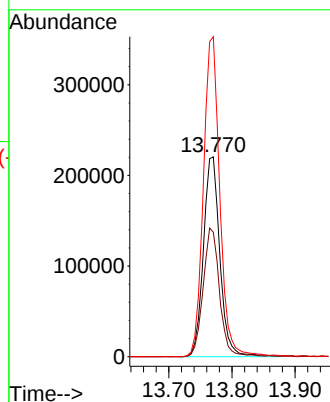
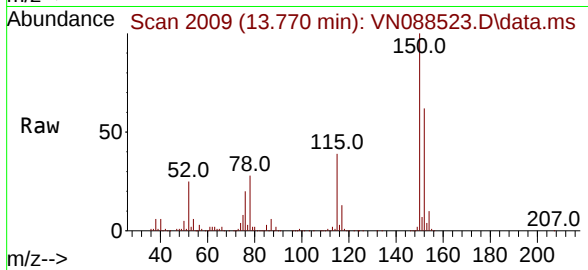




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.770 min Scan# 2009
 Delta R.T. 0.000 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

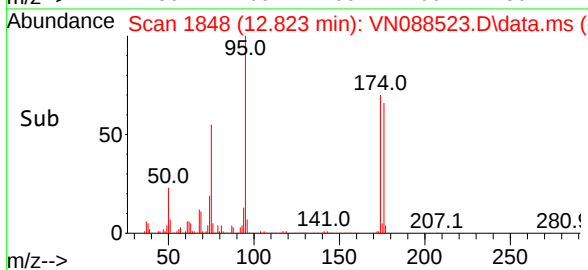
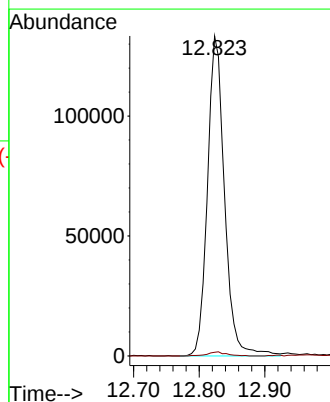
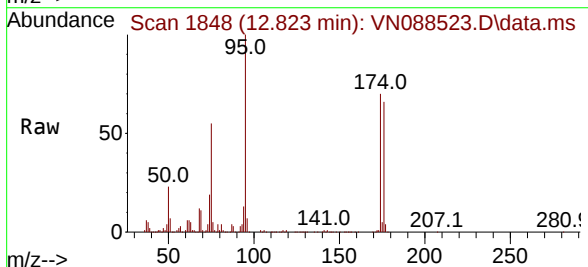
Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MH09-WC

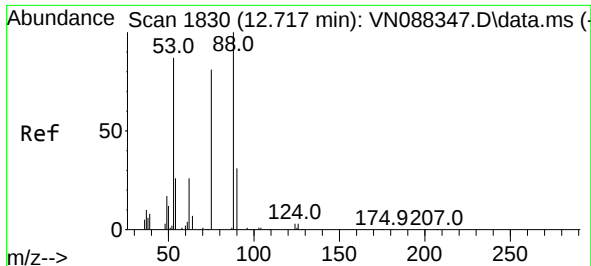
Tgt Ion:152 Resp: 400354
 Ion Ratio Lower Upper
 152 100
 115 63.9 33.0 98.9
 150 159.8 0.0 349.0



#76
 1,2,3-Trichloropropane
 Concen: 25.771 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. -0.147 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

Tgt Ion: 75 Resp: 241654
 Ion Ratio Lower Upper
 75 100
 77 1.4 87.2 261.6#

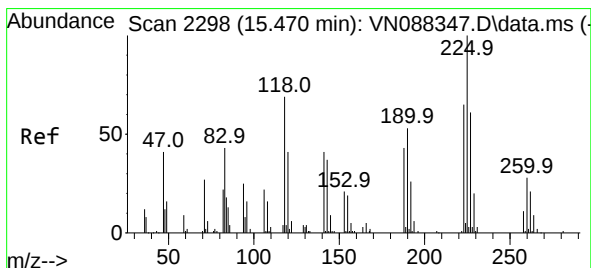
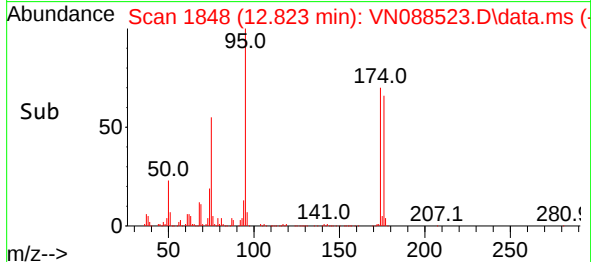
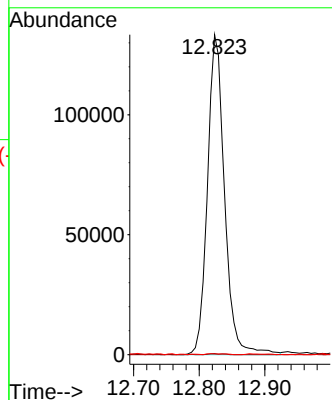
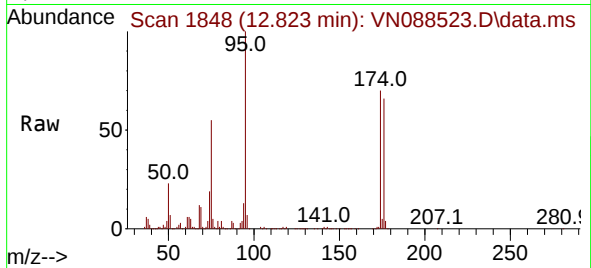




#81
 trans-1,4-Dichloro-2-butene
 Concen: 73.111 ug/l
 RT: 12.823 min Scan# 1848
 Delta R.T. 0.106 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

Instrument :
 MSVOA_N
 ClientSampleId :
 TP02-MH09-WC

Tgt Ion: 75 Resp: 241654
 Ion Ratio Lower Upper
 75 100
 53 0.3 92.2 138.4#
 89 0.3 0.0 0.0#



#94
 Hexachlorobutadiene
 Concen: 0.272 ug/l
 RT: 15.464 min Scan# 2297
 Delta R.T. -0.006 min
 Lab File: VN088523.D
 Acq: 16 Dec 2025 13:25

Tgt Ion: 225 Resp: 721
 Ion Ratio Lower Upper
 225 100
 223 50.9 32.3 96.8
 227 16.2 29.9 89.8#

