

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN121625\
 Data File : VN088524.D
 Acq On : 16 Dec 2025 13:45
 Operator : JC\MD
 Sample : Q3853-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP01-MH11

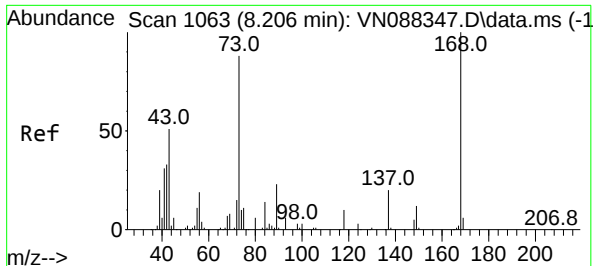
Quant Time: Dec 17 01:40:47 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	329165	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	779512	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	832897	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	373822	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	401125	64.689	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 129.380%#	
35) Dibromofluoromethane	8.147	113	297903	55.147	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 110.300%	
50) Toluene-d8	10.541	98	1075848	53.526	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 107.060%	
62) 4-Bromofluorobenzene	12.823	95	407810	59.133	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 118.260%	
Target Compounds						Qvalue
5) Bromomethane	2.989	94	642	0.247	ug/l	95
11) Tert butyl alcohol	5.500	59	530	0.535	ug/l #	72
13) Acrolein	4.189	56	269	0.284	ug/l #	78
16) Acetone	4.424	43	109263	48.723	ug/l	99
18) Methyl Acetate	5.024	43	14750	2.210	ug/l #	80
20) Methylene Chloride	5.271	84	31004	6.462	ug/l	90
25) 2-Butanone	7.477	43	9910	2.749	ug/l #	81
29) Tetrahydrofuran	7.824	42	566	0.219	ug/l #	53
31) Cyclohexane	8.206	56	9143	1.121	ug/l #	1
36) 1,1-Dichloropropene	8.206	75	32819	3.937	ug/l #	52
37) Ethyl Acetate	7.547	43	5704	0.520	ug/l #	78
38) Carbon Tetrachloride	8.206	117	38662	4.658	ug/l #	16
43) Isopropyl Acetate	8.677	43	35249	2.105	ug/l	95
45) 1,2-Dichloropropane	9.724	63	2335	0.372	ug/l #	46
48) Methyl methacrylate	9.718	41	181214	23.713	ug/l #	45
49) 1,4-Dioxane	9.712	88	85	0.875	ug/l #	1
51) 4-Methyl-2-Pentanone	10.418	43	6345	0.643	ug/l #	70
54) cis-1,3-Dichloropropene	10.335	75	64482	6.544	ug/l #	59
57) 1,3-Dichloropropane	11.182	76	5044	0.511	ug/l #	42
59) 2-Hexanone	11.182	43	76576	12.313	ug/l #	58
76) 1,2,3-Trichloropropane	12.823	75	218819	24.992	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.823	75	218819	70.901	ug/l #	1

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

Quant Time: Dec 17 01:40:47 2025
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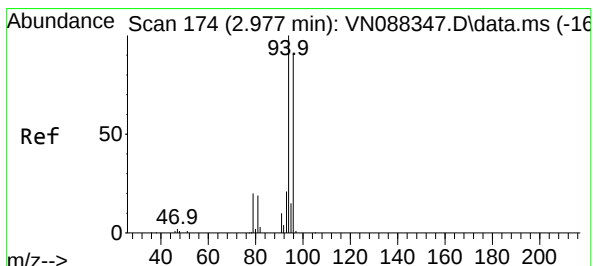
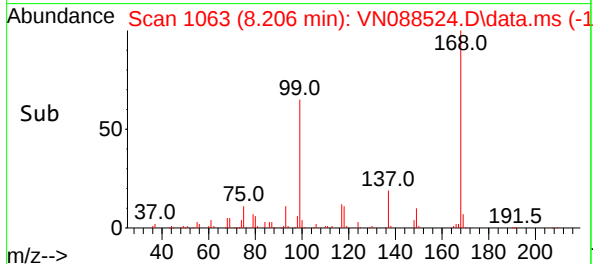
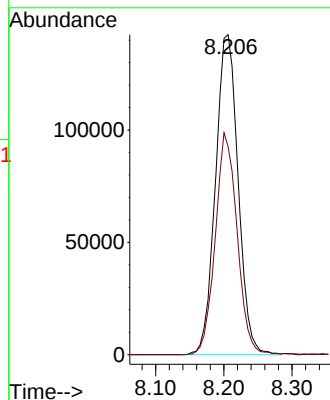
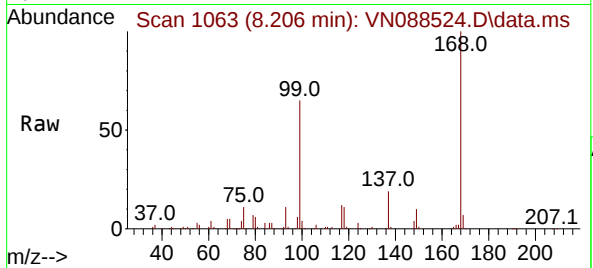




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

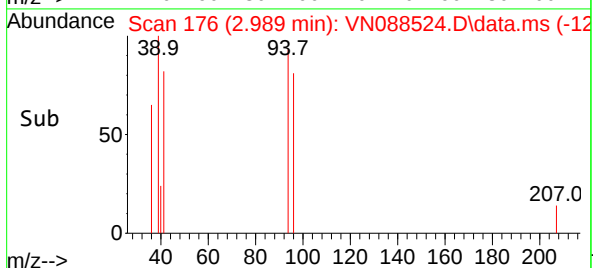
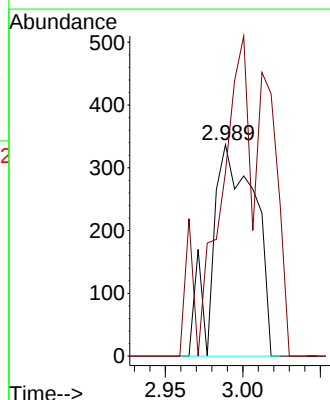
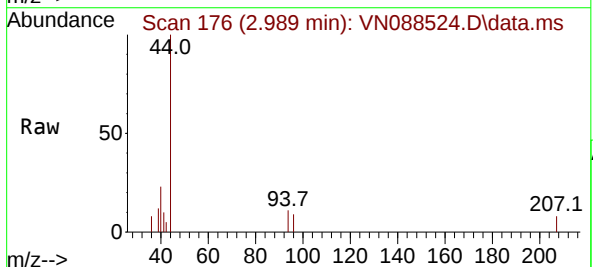
Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

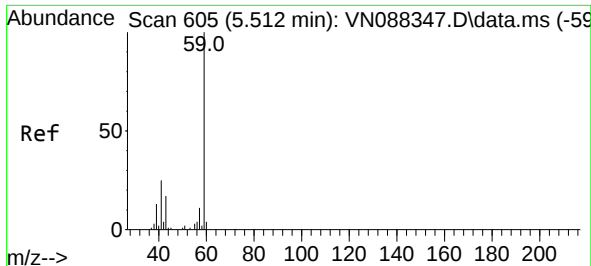
Tgt Ion:168 Resp: 329165
Ion Ratio Lower Upper
168 100
99 65.1 57.1 85.7



#5
Bromomethane
Concen: 0.247 ug/l
RT: 2.989 min Scan# 176
Delta R.T. 0.012 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion: 94 Resp: 642
Ion Ratio Lower Upper
94 100
96 86.9 73.2 109.8





#11

Tert butyl alcohol

Concen: 0.535 ug/l

RT: 5.500 min Scan# 605

Delta R.T. -0.012 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

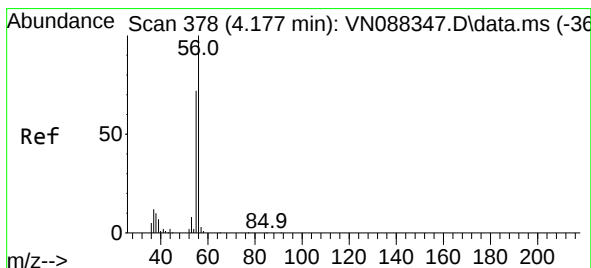
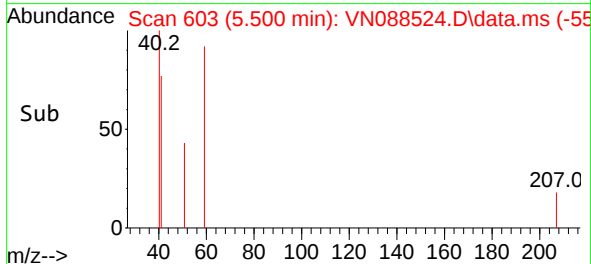
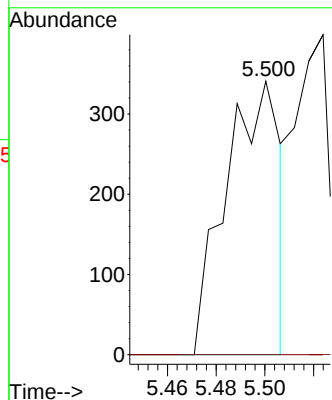
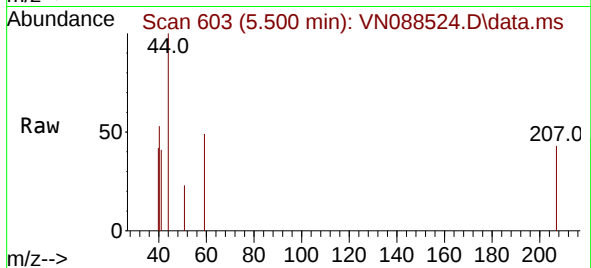
TP01-MH11

Tgt Ion: 59 Resp: 530

Ion Ratio Lower Upper

59 100

57 0.0 8.5 12.7#



#13

Acrolein

Concen: 0.284 ug/l

RT: 4.189 min Scan# 380

Delta R.T. 0.012 min

Lab File: VN088524.D

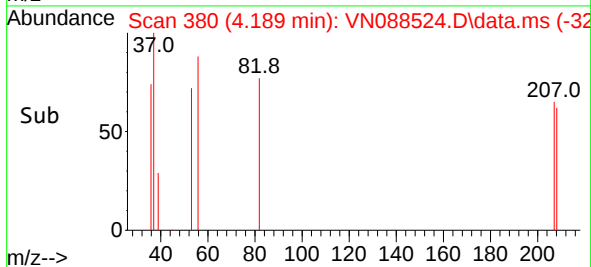
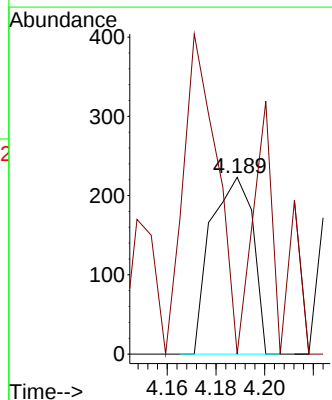
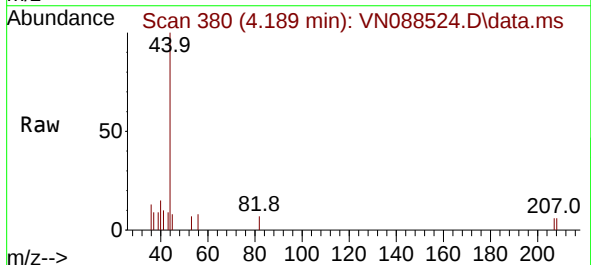
Acq: 16 Dec 2025 13:45

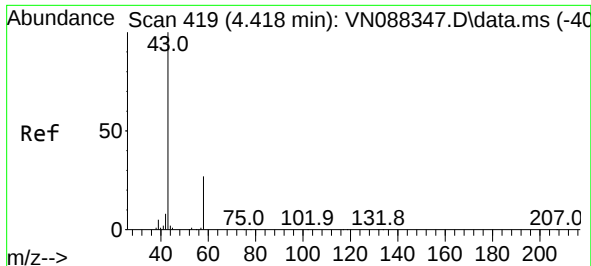
Tgt Ion: 56 Resp: 269

Ion Ratio Lower Upper

56 100

55 88.1 56.3 84.5#

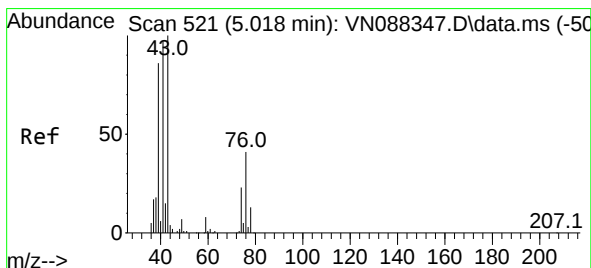
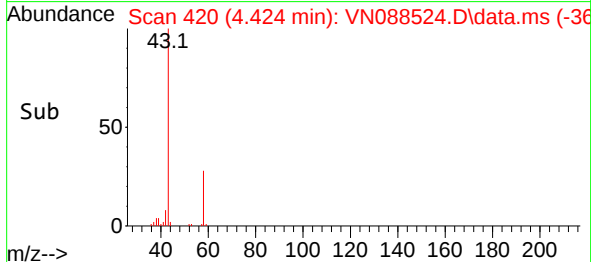
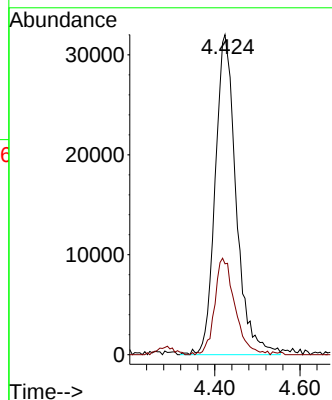
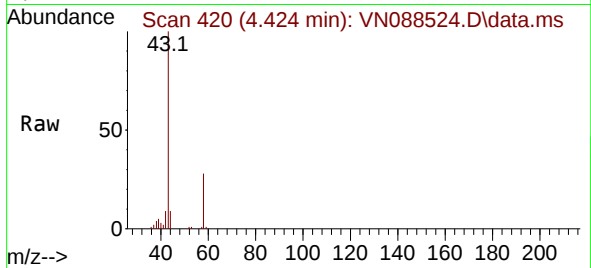




#16
Acetone
Concen: 48.723 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

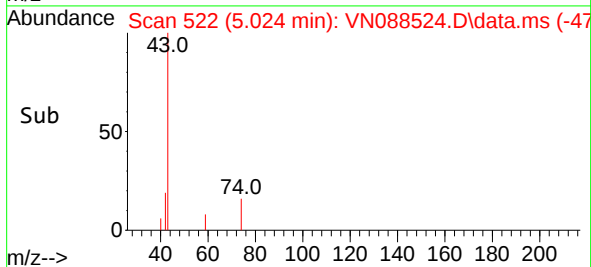
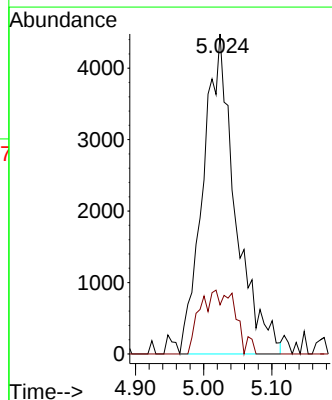
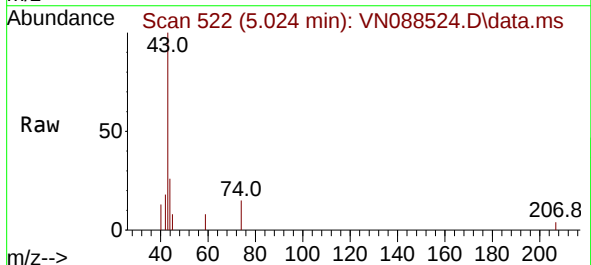
Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

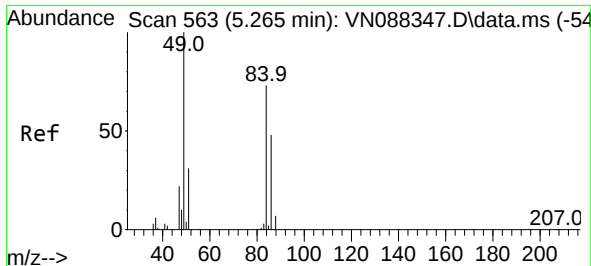
Tgt Ion: 43 Resp: 109263
Ion Ratio Lower Upper
43 100
58 27.7 21.7 32.5



#18
Methyl Acetate
Concen: 2.210 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion: 43 Resp: 14750
Ion Ratio Lower Upper
43 100
74 12.6 17.9 26.9#



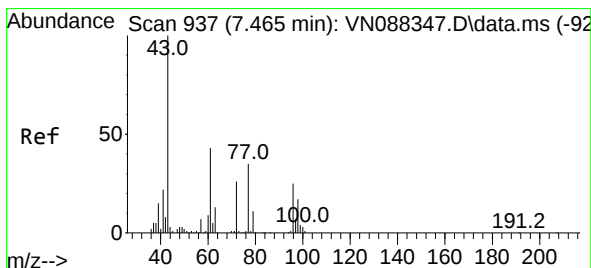
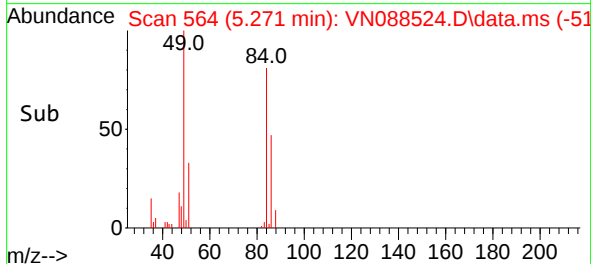
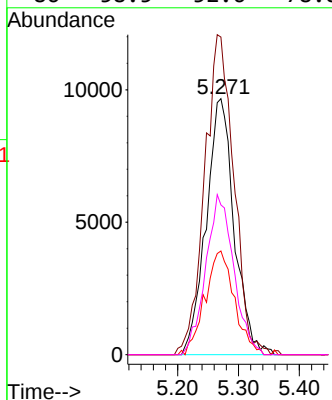
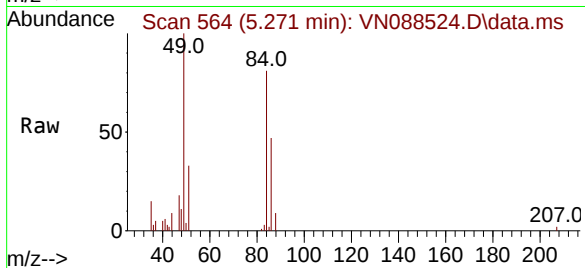


#20
Methylene Chloride
Concen: 6.462 ug/l
RT: 5.271 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

Tgt Ion: 84 Resp: 31004

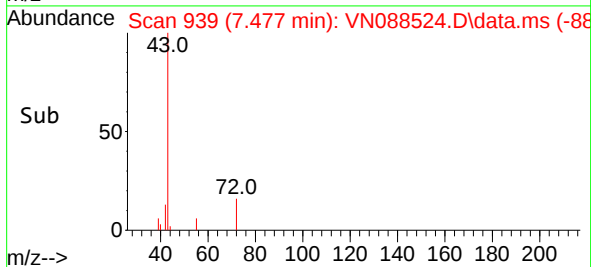
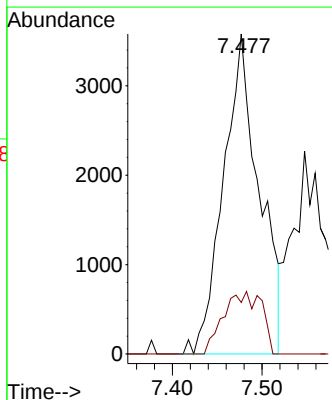
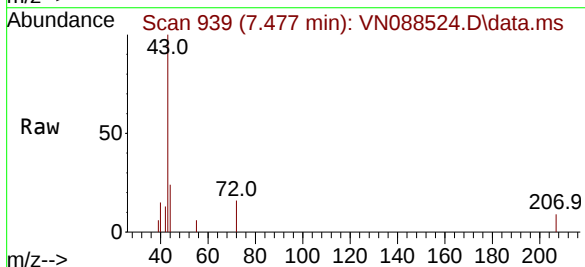
Ion	Ratio	Lower	Upper
84	100		
49	122.4	110.2	165.2
51	40.5	34.1	51.1
86	58.5	52.6	78.8

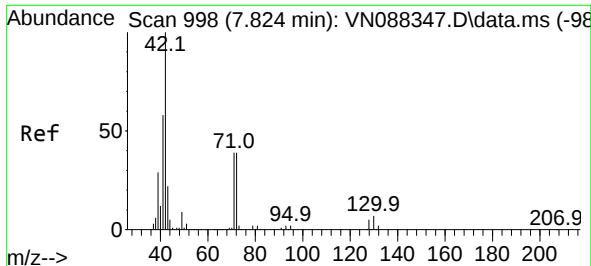


#25
2-Butanone
Concen: 2.749 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion: 43 Resp: 9910

Ion	Ratio	Lower	Upper
43	100		
72	16.1	20.5	30.7#





#29

Tetrahydrofuran

Concen: 0.219 ug/l

RT: 7.824 min Scan# 998

Delta R.T. 0.000 min

Lab File: VN088524.D

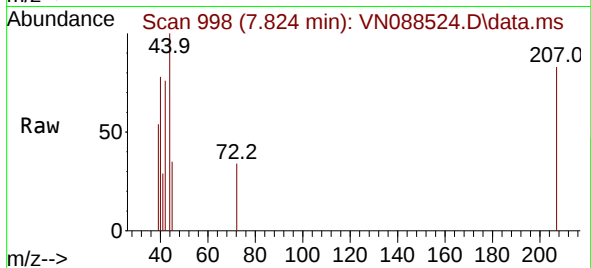
Acq: 16 Dec 2025 13:45

Instrument :

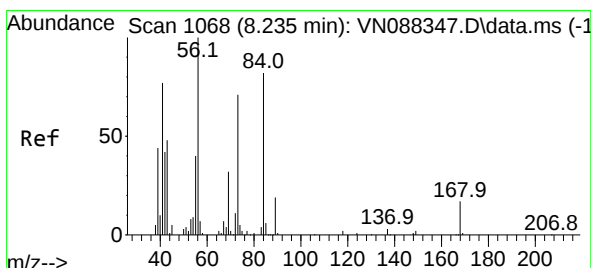
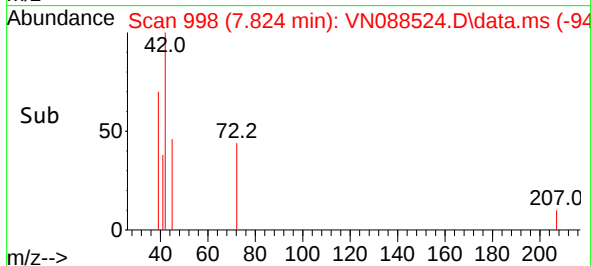
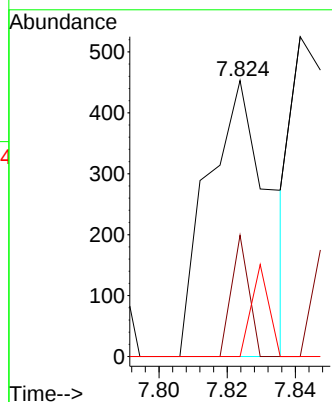
MSVOA_N

ClientSampleId :

TP01-MH11



Tgt Ion:	42	Resp:	566
Ion Ratio	Lower	Upper	
42	100		
72	12.4	32.2	48.4#
71	9.4	31.1	46.7#



#31

Cyclohexane

Concen: 1.121 ug/l

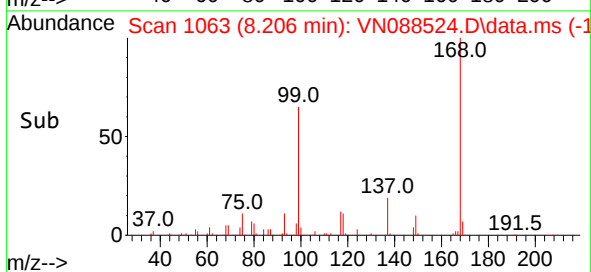
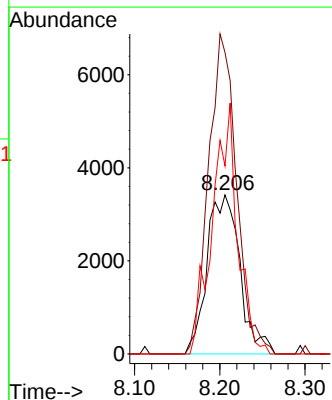
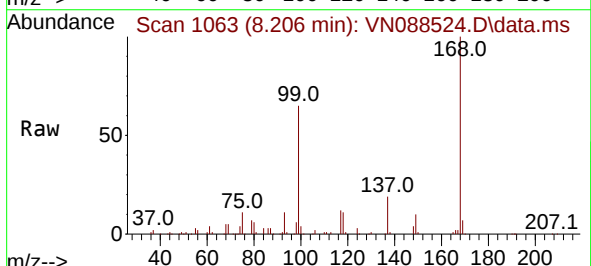
RT: 8.206 min Scan# 1063

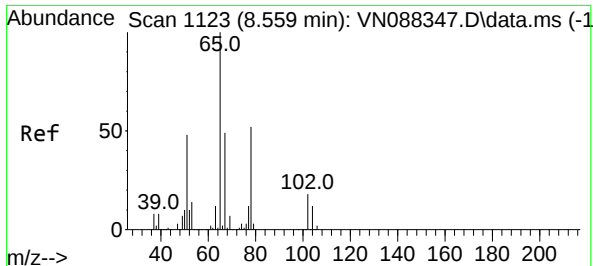
Delta R.T. -0.029 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Tgt Ion:	56	Resp:	9143
Ion Ratio	Lower	Upper	
56	100		
69	189.5	25.3	37.9#
84	118.3	65.4	98.2#

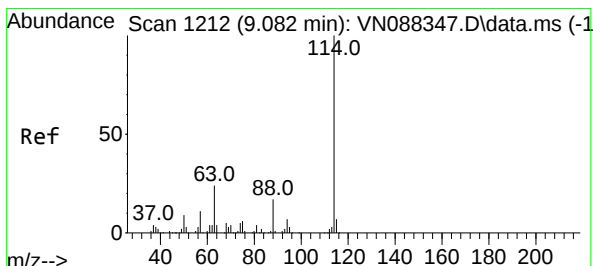
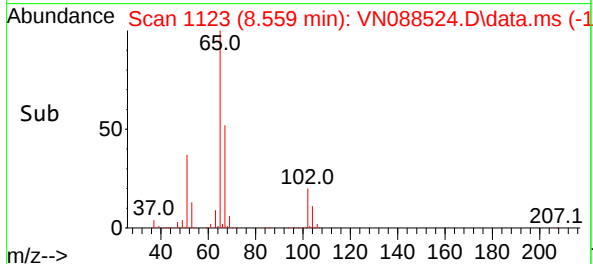
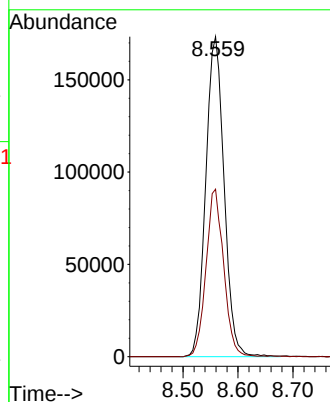
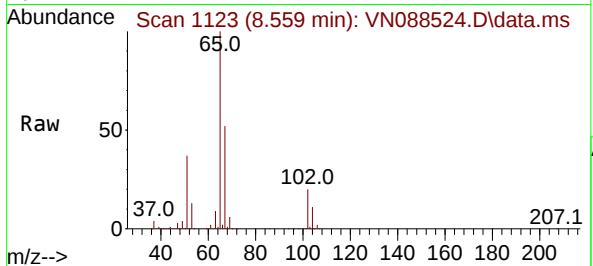




#33
 1,2-Dichloroethane-d4
 Concen: 64.689 ug/l
 RT: 8.559 min Scan# 1123
 Delta R.T. 0.000 min
 Lab File: VN088524.D
 Acq: 16 Dec 2025 13:45

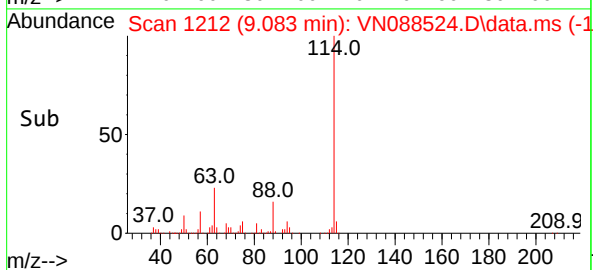
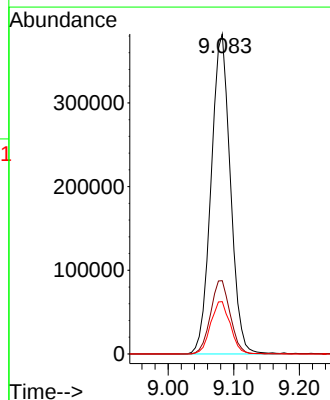
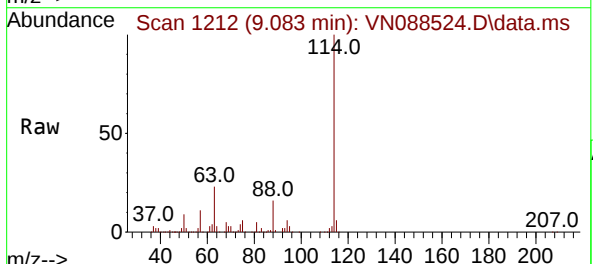
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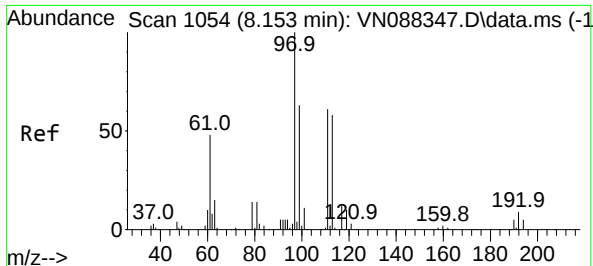
Tgt Ion: 65 Resp: 401125
 Ion Ratio Lower Upper
 65 100
 67 50.4 0.0 100.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 9.083 min Scan# 1212
 Delta R.T. 0.000 min
 Lab File: VN088524.D
 Acq: 16 Dec 2025 13:45

Tgt Ion: 114 Resp: 779512
 Ion Ratio Lower Upper
 114 100
 63 22.9 0.0 49.0
 88 16.3 0.0 34.0





#35

Dibromofluoromethane

Concen: 55.147 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

TP01-MH11

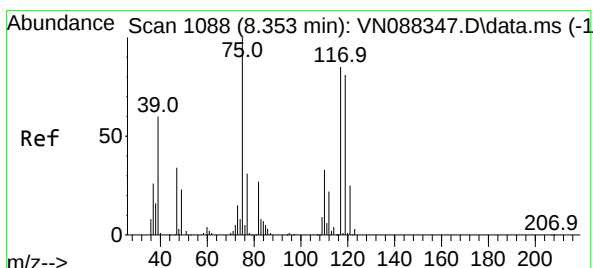
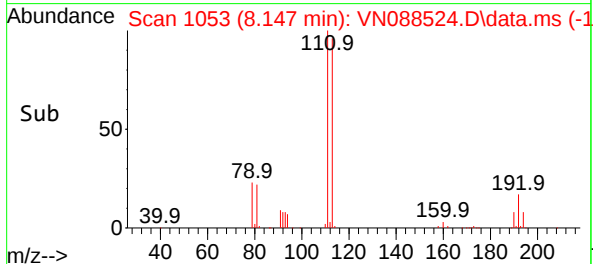
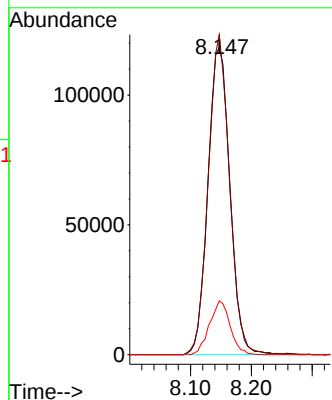
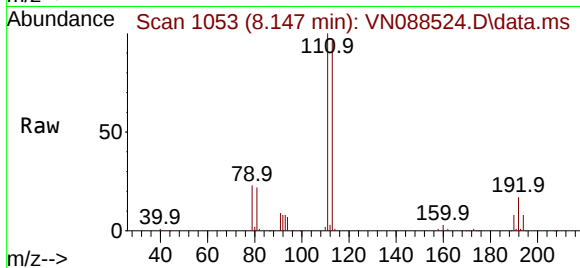
Tgt Ion:113 Resp: 297903

Ion Ratio Lower Upper

113 100

111 100.3 82.5 123.7

192 16.4 12.8 19.2



#36

1,1-Dichloropropene

Concen: 3.937 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

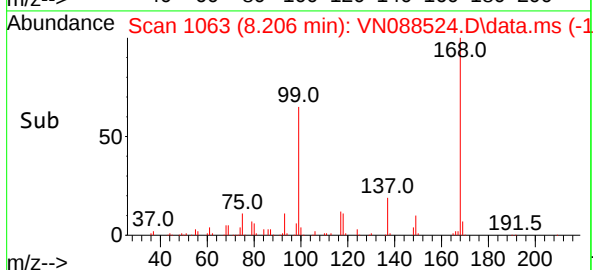
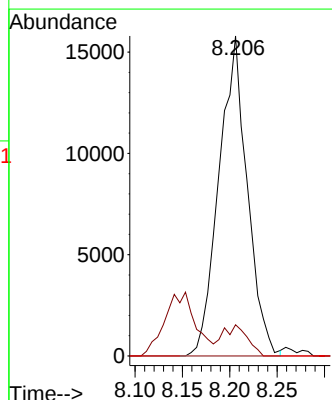
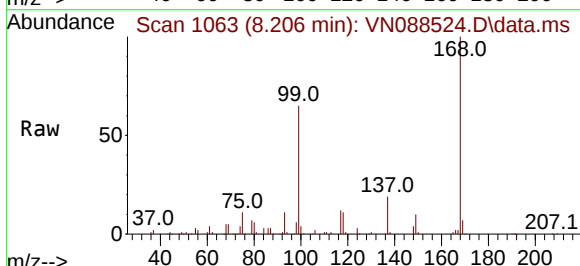
Tgt Ion: 75 Resp: 32819

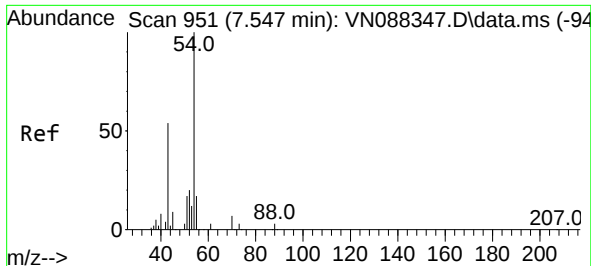
Ion Ratio Lower Upper

75 100

110 8.5 15.8 47.4#

77 0.0 24.2 36.2#





#37

Ethyl Acetate

Concen: 0.520 ug/l

RT: 7.547 min Scan# 91

Delta R.T. 0.000 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

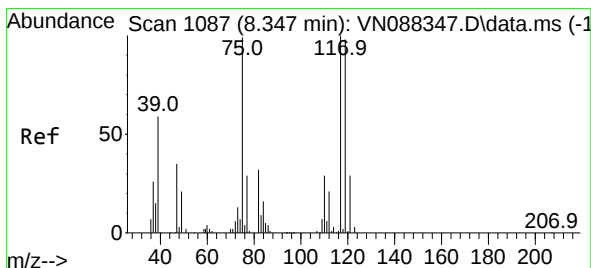
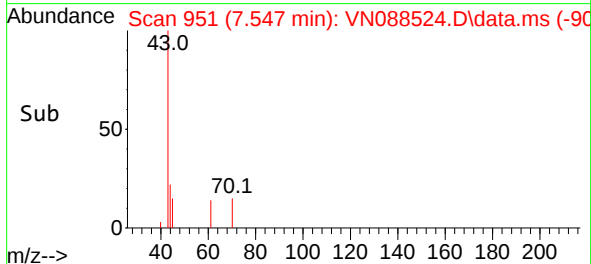
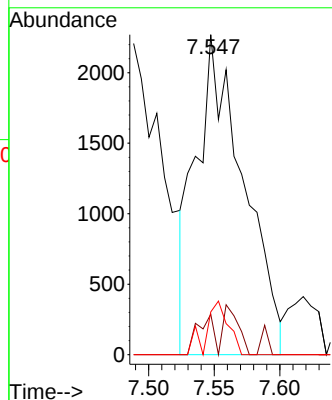
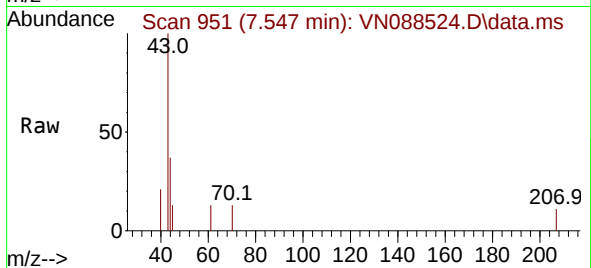
Instrument :

MSVOA_N

ClientSampleId :

TP01-MH11

Tgt Ion:	43	Resp:	5704
Ion	Ratio	Lower	Upper
43	100		
61	4.3	9.5	14.3#
70	0.0	7.1	10.7#



#38

Carbon Tetrachloride

Concen: 4.658 ug/l

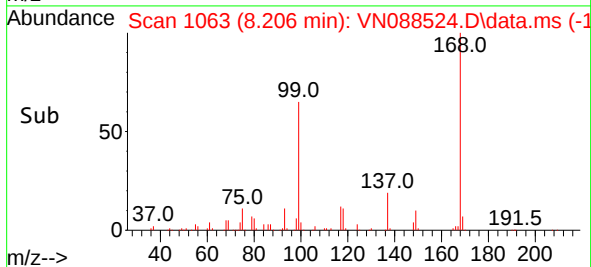
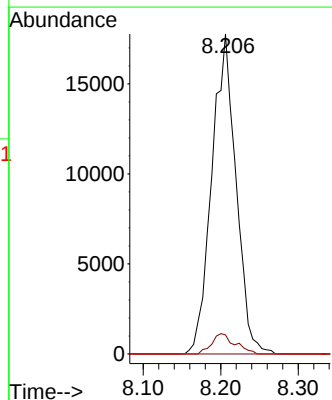
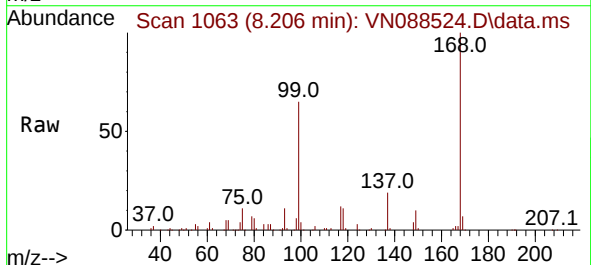
RT: 8.206 min Scan# 1063

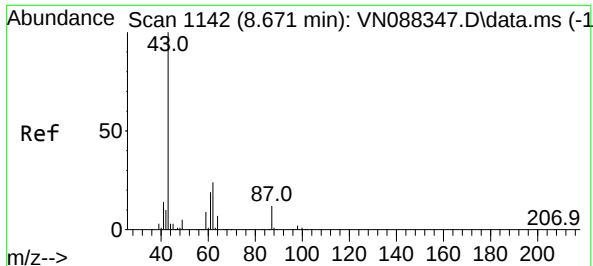
Delta R.T. -0.141 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Tgt Ion:	117	Resp:	38662
Ion	Ratio	Lower	Upper
117	100		
119	5.9	78.2	117.4#
121	0.0	23.4	35.2#





#43

Isopropyl Acetate

Concen: 2.105 ug/l

RT: 8.677 min Scan# 1143

Delta R.T. 0.006 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

TP01-MH11

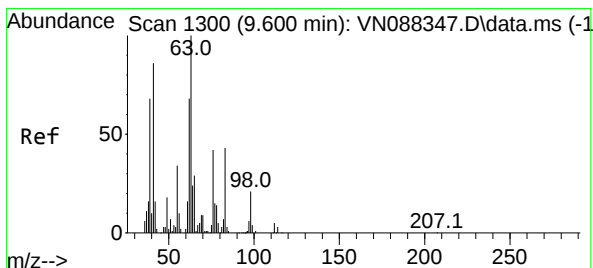
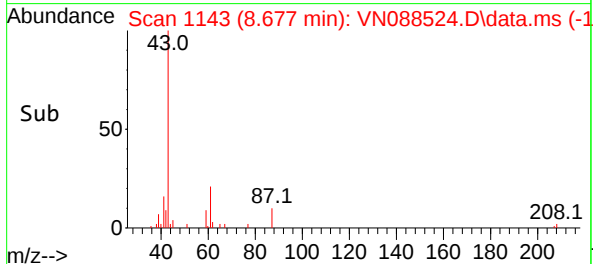
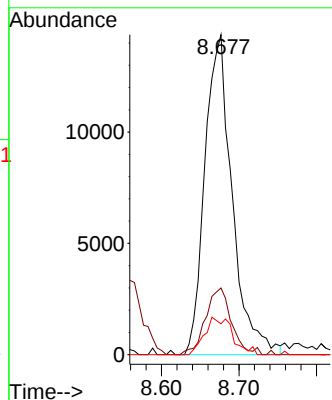
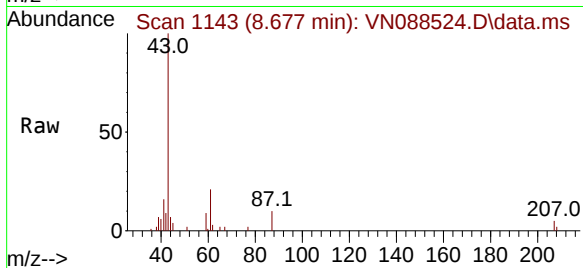
Tgt Ion: 43 Resp: 35249

Ion Ratio Lower Upper

43 100

61 19.7 18.7 28.1

87 11.9 9.1 13.7



#45

1,2-Dichloropropane

Concen: 0.372 ug/l

RT: 9.724 min Scan# 1321

Delta R.T. 0.124 min

Lab File: VN088524.D

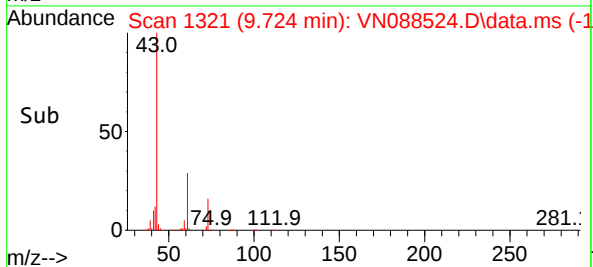
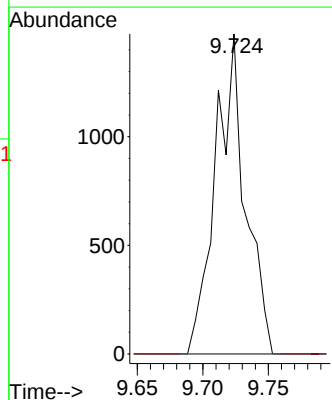
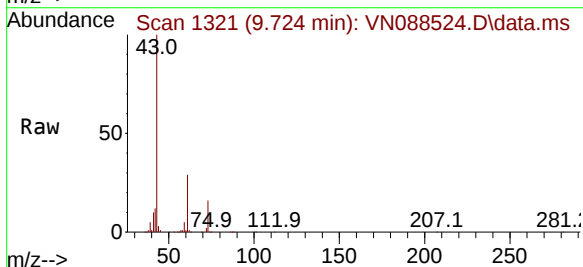
Acq: 16 Dec 2025 13:45

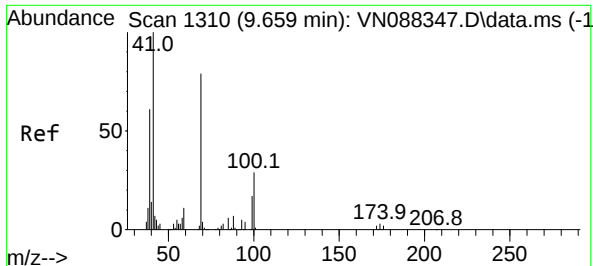
Tgt Ion: 63 Resp: 2335

Ion Ratio Lower Upper

63 100

65 0.0 23.0 34.4#





#48

Methyl methacrylate

Concen: 23.713 ug/l

RT: 9.718 min Scan# 11

Delta R.T. 0.059 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

TP01-MH11

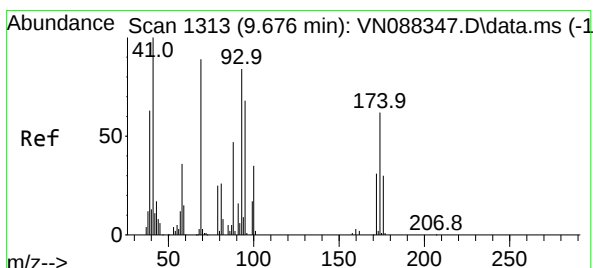
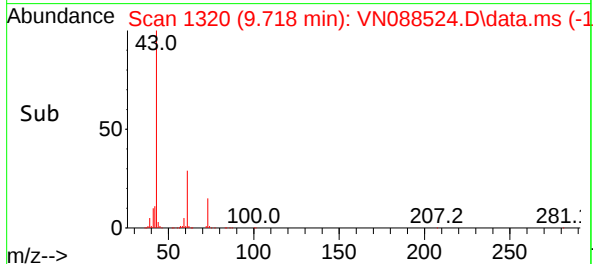
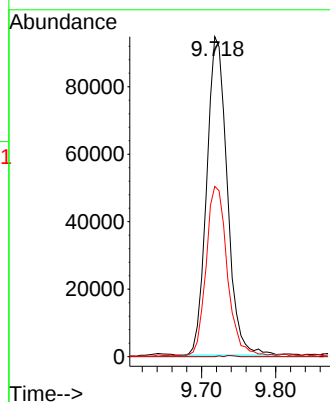
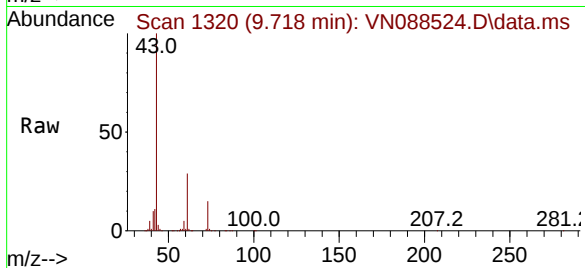
Tgt Ion: 41 Resp: 181214

Ion Ratio Lower Upper

41 100

69 0.2 62.4 93.6#

39 54.9 52.6 79.0



#49

1,4-Dioxane

Concen: 0.875 ug/l

RT: 9.712 min Scan# 1319

Delta R.T. 0.035 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

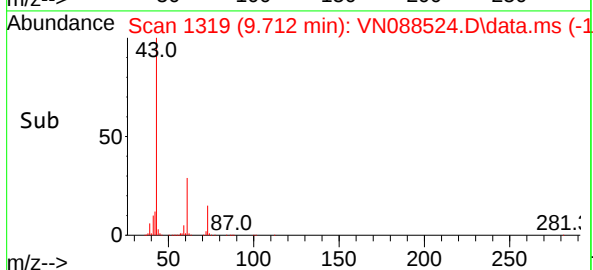
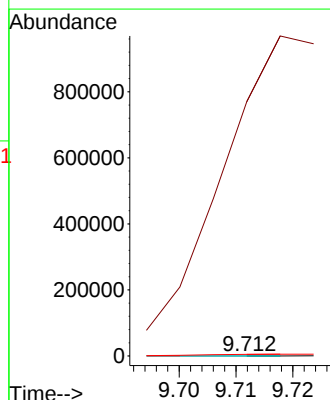
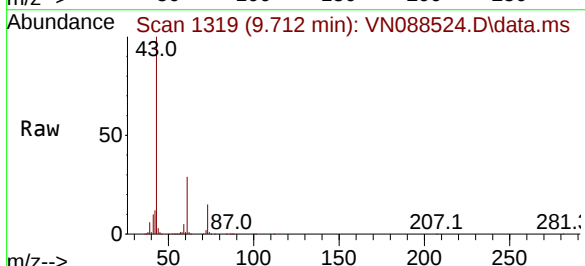
Tgt Ion: 88 Resp: 85

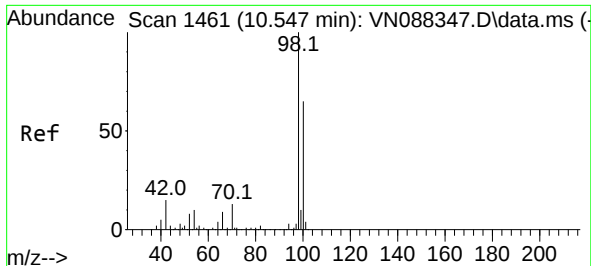
Ion Ratio Lower Upper

88 100

43 2189671.8 0.0 0.0#

58 14008.2 62.0 93.0#

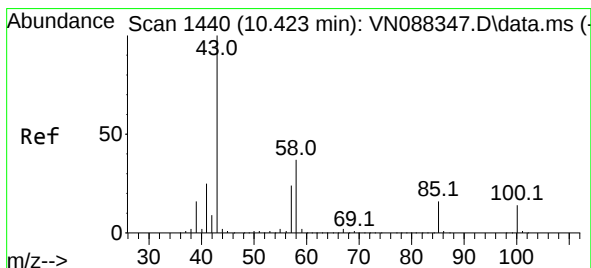
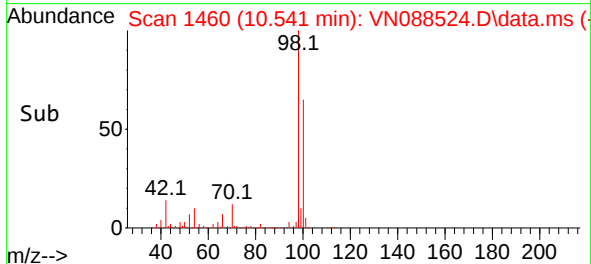
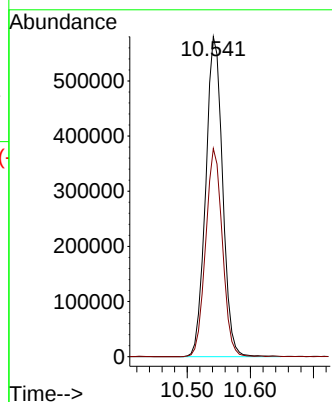
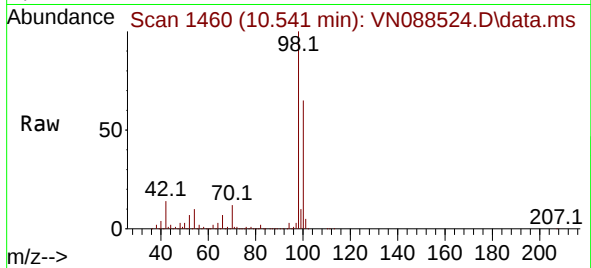




#50
Toluene-d8
Concen: 53.526 ug/l
RT: 10.541 min Scan# 1460
Delta R.T. -0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

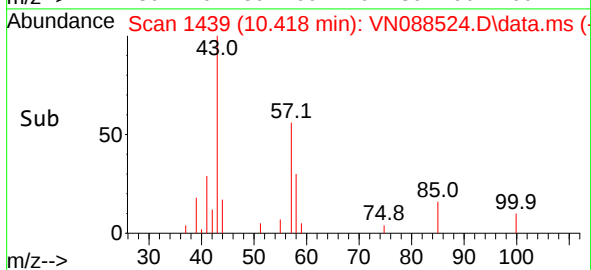
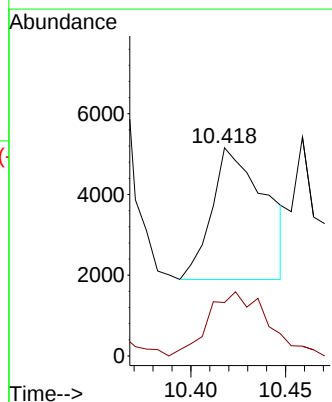
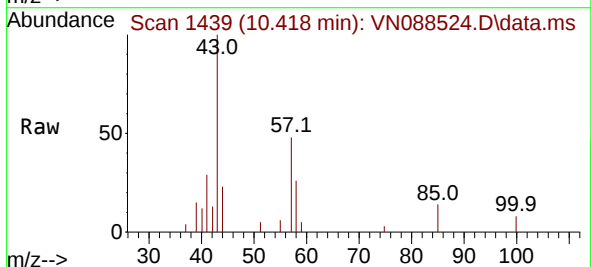
Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

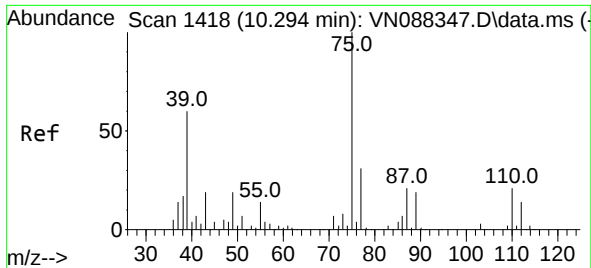
Tgt Ion: 98 Resp: 1075848
Ion Ratio Lower Upper
98 100
100 64.4 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 0.643 ug/l
RT: 10.418 min Scan# 1439
Delta R.T. -0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion: 43 Resp: 6345
Ion Ratio Lower Upper
43 100
58 54.3 29.1 43.7#

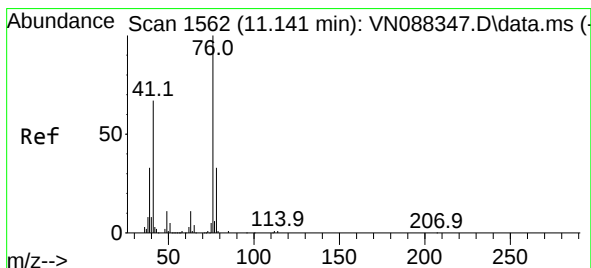
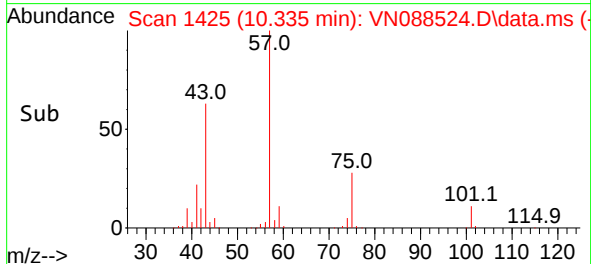
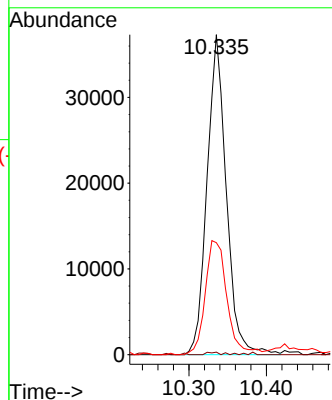
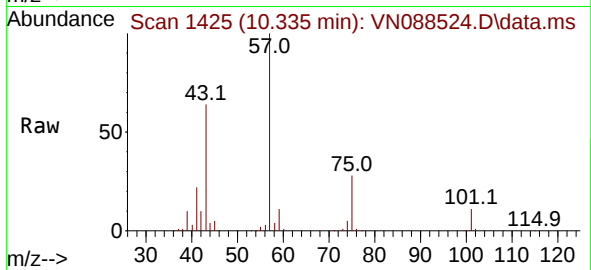




#54
 cis-1,3-Dichloropropene
 Concen: 6.544 ug/l
 RT: 10.335 min Scan# 1418
 Delta R.T. 0.041 min
 Lab File: VN088524.D
 Acq: 16 Dec 2025 13:45

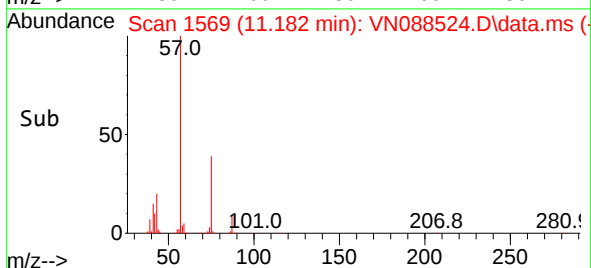
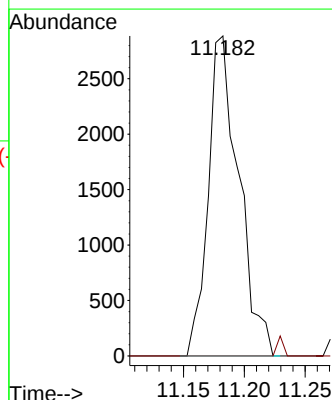
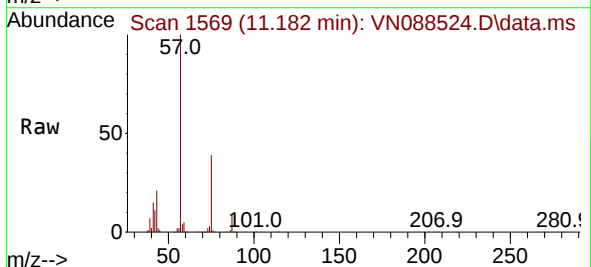
Instrument :
 MSVOA_N
 ClientSampleId :
 TP01-MH11

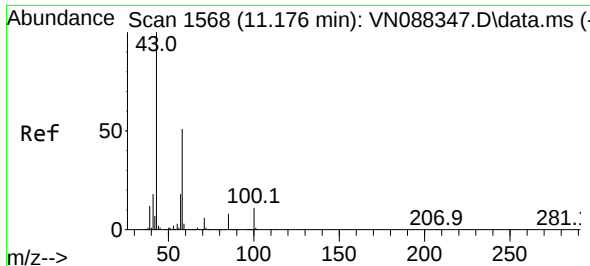
Tgt Ion: 75 Resp: 64482
 Ion Ratio Lower Upper
 75 100
 77 0.8 24.5 36.7#
 39 35.0 48.3 72.5#



#57
 1,3-Dichloropropane
 Concen: 0.511 ug/l
 RT: 11.182 min Scan# 1569
 Delta R.T. 0.041 min
 Lab File: VN088524.D
 Acq: 16 Dec 2025 13:45

Tgt Ion: 76 Resp: 5044
 Ion Ratio Lower Upper
 76 100
 78 0.0 26.2 39.4#

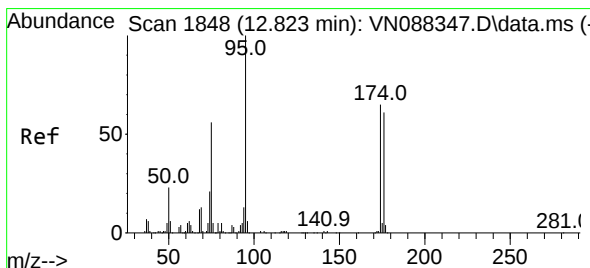
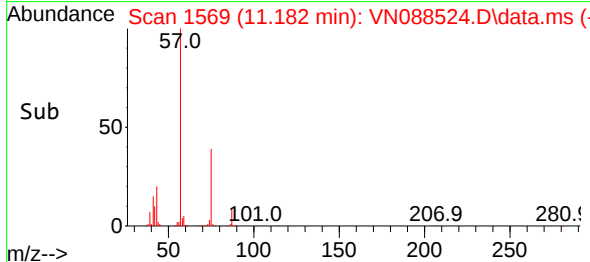
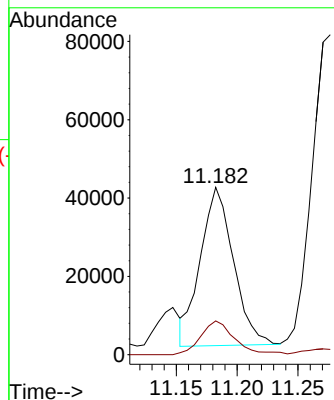
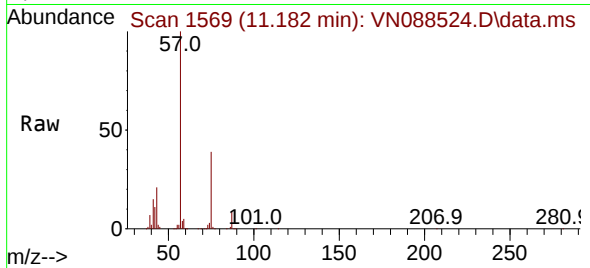




#59
2-Hexanone
Concen: 12.313 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

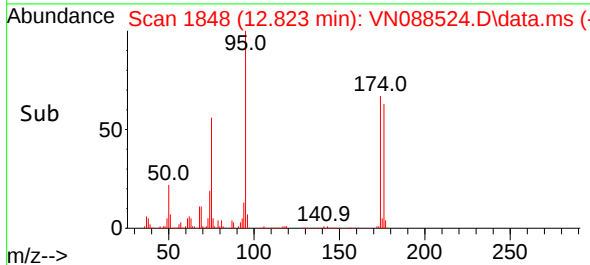
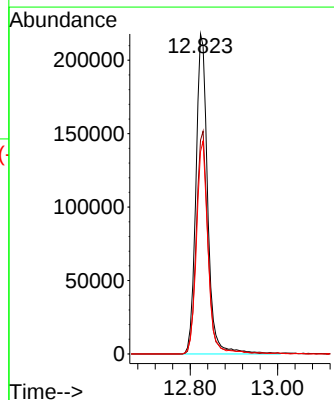
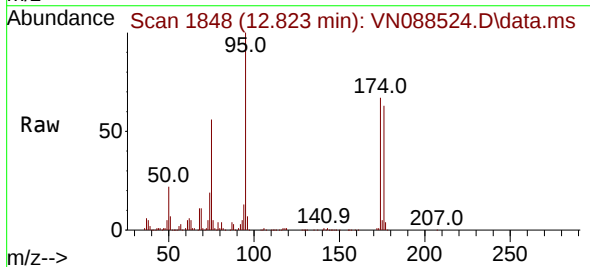
Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

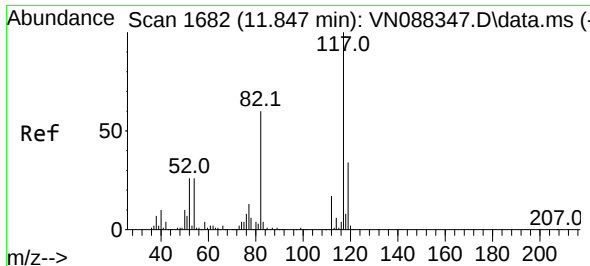
Tgt Ion: 43 Resp: 76576
Ion Ratio Lower Upper
43 100
58 21.8 25.3 75.9#



#62
4-Bromofluorobenzene
Concen: 59.133 ug/l
RT: 12.823 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion: 95 Resp: 407810
Ion Ratio Lower Upper
95 100
174 69.5 0.0 139.0
176 65.5 0.0 132.4

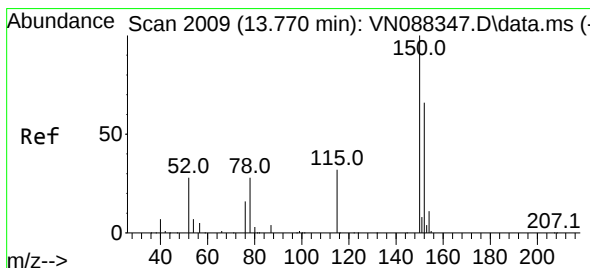
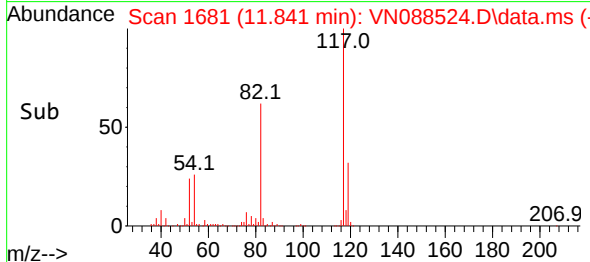
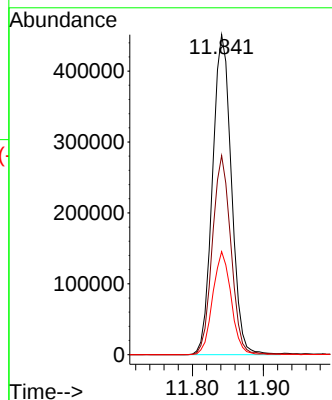
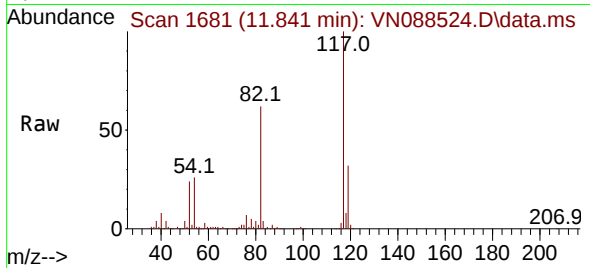




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 11
Delta R.T. -0.006 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

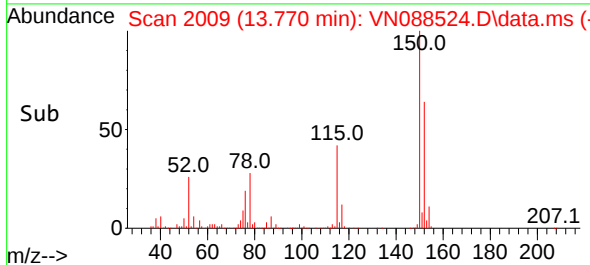
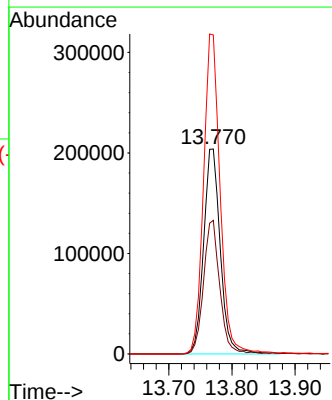
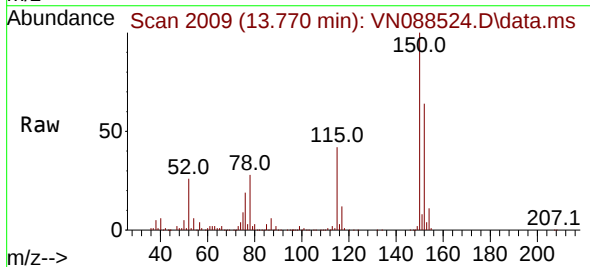
Instrument :
MSVOA_N
ClientSampleId :
TP01-MH11

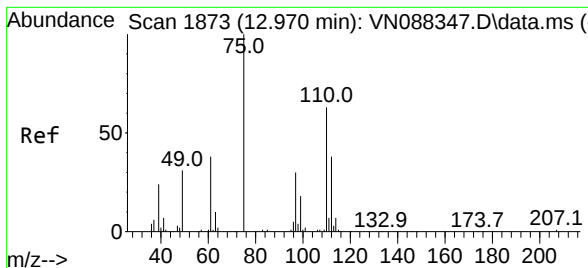
Tgt Ion:117 Resp: 832897
Ion Ratio Lower Upper
117 100
82 62.2 47.8 71.8
119 32.2 26.9 40.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.770 min Scan# 2009
Delta R.T. 0.000 min
Lab File: VN088524.D
Acq: 16 Dec 2025 13:45

Tgt Ion:152 Resp: 373822
Ion Ratio Lower Upper
152 100
115 63.3 33.0 98.9
150 155.7 0.0 349.0





#76

1,2,3-Trichloropropane

Concen: 24.992 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. -0.147 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Instrument :

MSVOA_N

ClientSampleId :

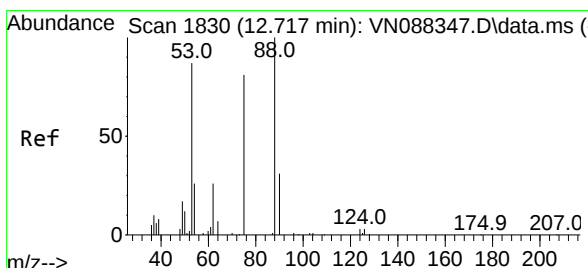
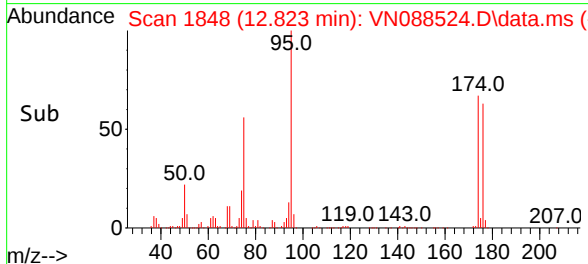
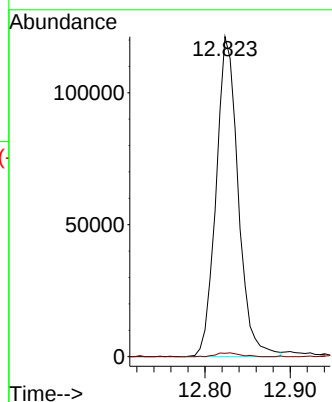
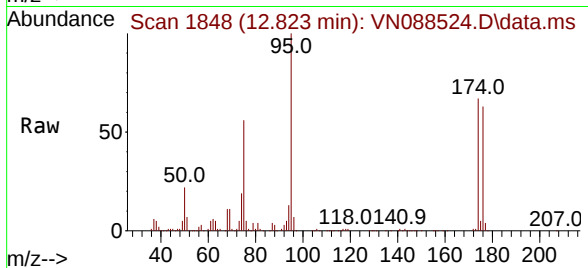
TP01-MH11

Tgt Ion: 75 Resp: 218819

Ion Ratio Lower Upper

75 100

77 1.3 87.2 261.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 70.901 ug/l

RT: 12.823 min Scan# 1848

Delta R.T. 0.106 min

Lab File: VN088524.D

Acq: 16 Dec 2025 13:45

Tgt Ion: 75 Resp: 218819

Ion Ratio Lower Upper

75 100

53 0.2 92.2 138.4#

89 0.3 0.0 0.0#

