

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111125\
 Data File : VN088256.D
 Acq On : 11 Nov 2025 14:45
 Operator : JC\MD
 Sample : Q3601-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1

Quant Time: Nov 12 01:16:31 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N102325W.M
 Quant Title : SW846 8260
 QLast Update : Mon Nov 03 01:16:06 2025
 Response via : Initial Calibration

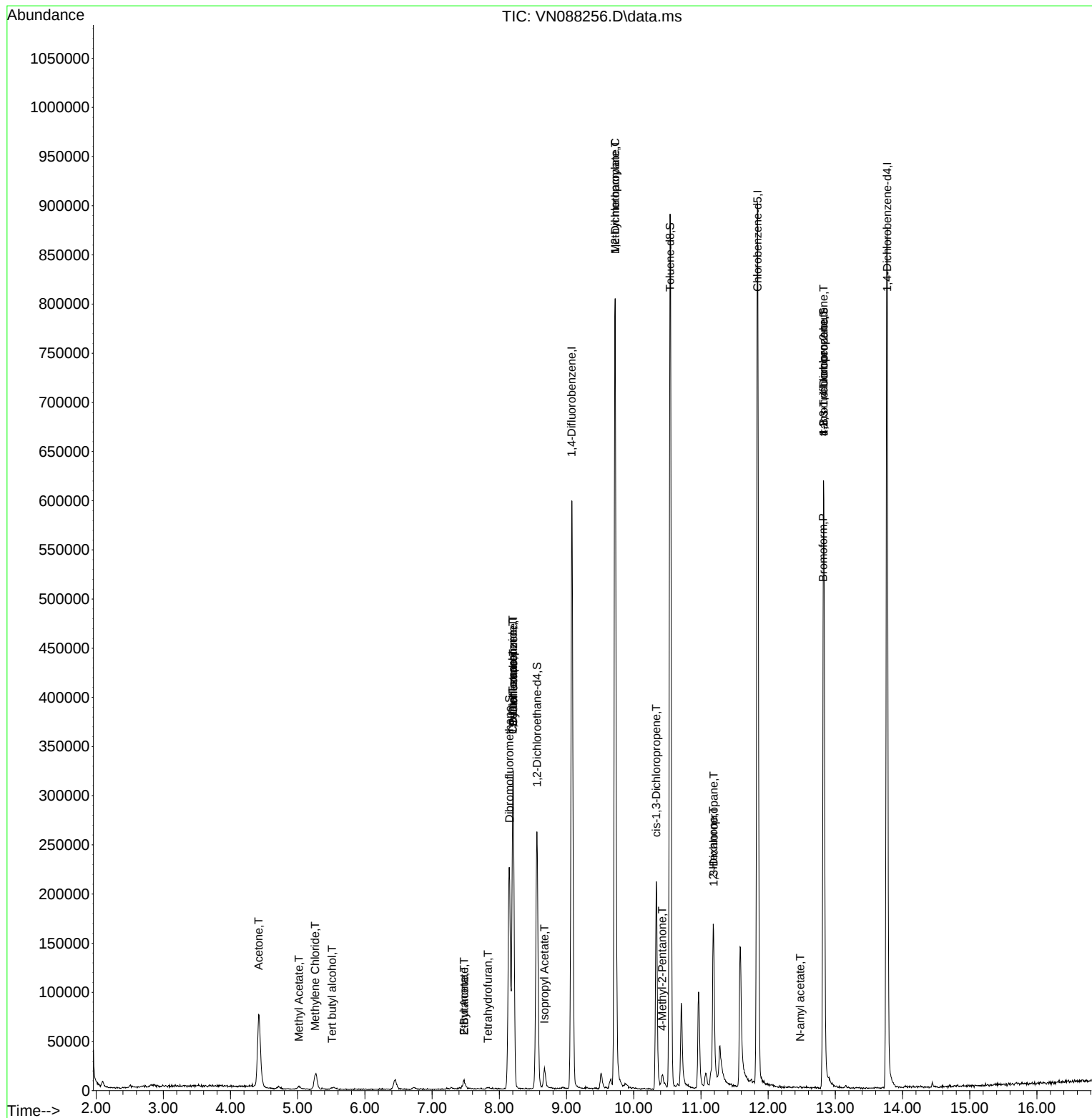
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	210535	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.077	114	485695	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	480433	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.771	152	228833	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	218341	59.974	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	= 119.940%		
35) Dibromofluoromethane	8.147	113	159708	48.946	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.900%		
50) Toluene-d8	10.541	98	595314	47.350	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	= 94.700%		
62) 4-Bromofluorobenzene	12.824	95	229687	51.729	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	= 103.460%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.512	59	3503	5.585	ug/l #	76
16) Acetone	4.418	43	154787	84.630	ug/l	96
18) Methyl Acetate	5.018	43	6029	1.610	ug/l #	78
20) Methylene Chloride	5.259	84	12293	4.004	ug/l #	79
25) 2-Butanone	7.477	43	17144	7.113	ug/l	98
29) Tetrahydrofuran	7.830	42	1420	0.904	ug/l #	61
31) Cyclohexane	8.206	56	6456	1.267	ug/l #	7
36) 1,1-Dichloropropene	8.200	75	20766	4.359	ug/l #	50
37) Ethyl Acetate	7.477	43	17144	2.788	ug/l #	72
38) Carbon Tetrachloride	8.200	117	24336	4.946	ug/l #	15
43) Isopropyl Acetate	8.671	43	25129	2.660	ug/l #	90
45) 1,2-Dichloropropane	9.724	63	1216	0.332	ug/l #	43
48) Methyl methacrylate	9.724	41	85262	19.548	ug/l #	46
51) 4-Methyl-2-Pentanone	10.424	43	8855	1.584	ug/l #	86
54) cis-1,3-Dichloropropene	10.335	75	36795	6.229	ug/l #	70
57) 1,3-Dichloropropane	11.188	76	2000	0.335	ug/l #	42
59) 2-Hexanone	11.182	43	32324	8.718	ug/l #	54
71) Bromoform	12.818	173	588	0.220	ug/l #	28
74) N-amyl acetate	12.476	43	1083	0.216	ug/l #	60
76) 1,2,3-Trichloropropane	12.824	75	128961	24.649	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.824	75	128961	68.760	ug/l #	1

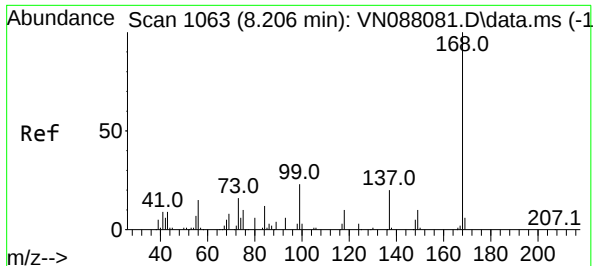
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Mon Nov 03 01:16:06 2025
Response via : Initial Calibration

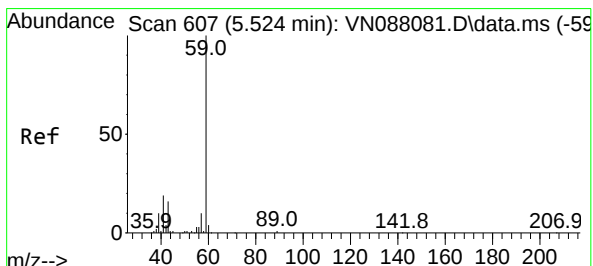
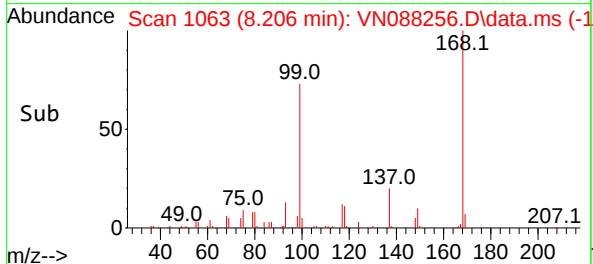
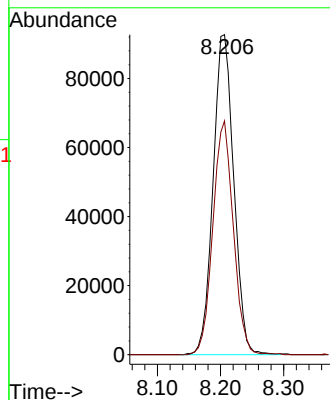
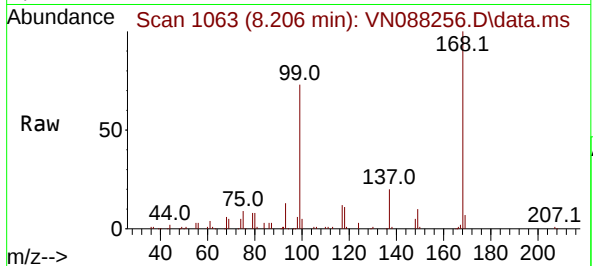




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

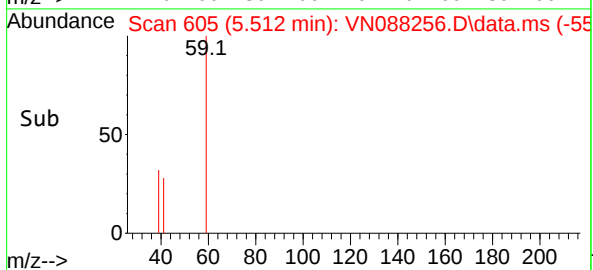
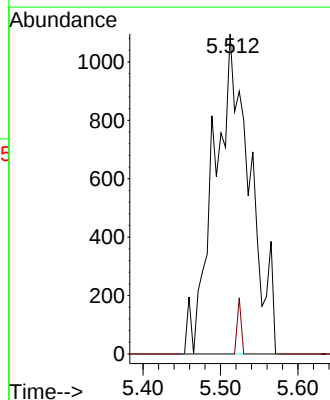
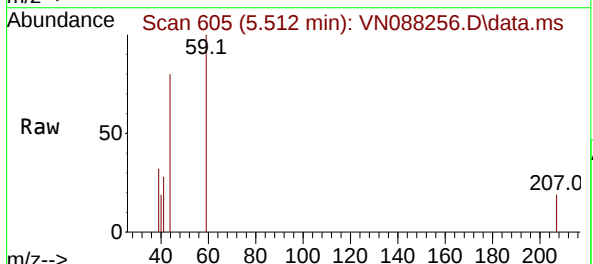
Instrument :
MSVOA_N
ClientSampleId :
TP-1

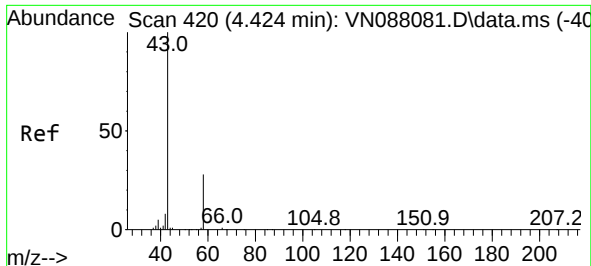
Tgt Ion:168 Resp: 210535
Ion Ratio Lower Upper
168 100
99 73.1 57.2 85.8



#11
Tert butyl alcohol
Concen: 5.585 ug/l
RT: 5.512 min Scan# 605
Delta R.T. -0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion: 59 Resp: 3503
Ion Ratio Lower Upper
59 100
57 1.9 9.0 13.4#

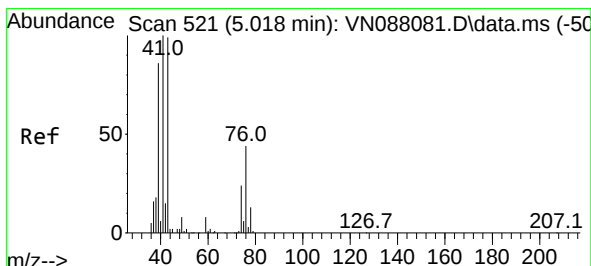
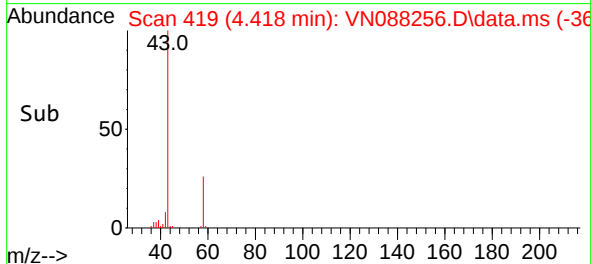
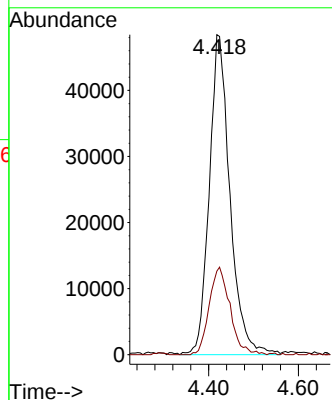
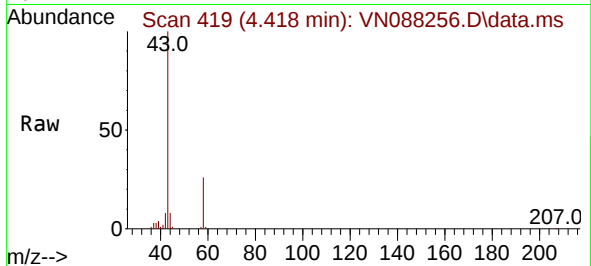




#16
Acetone
Concen: 84.630 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

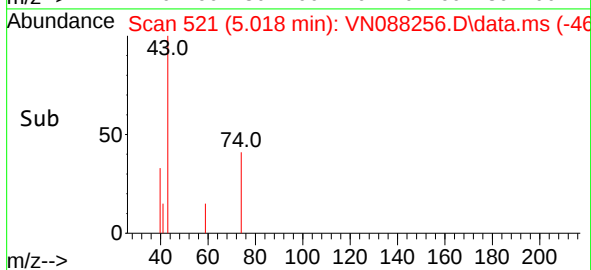
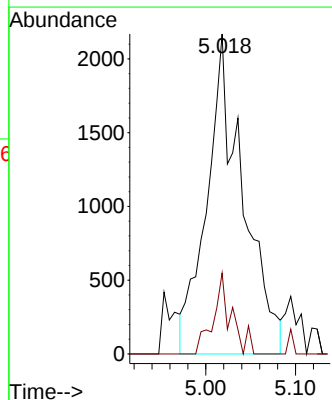
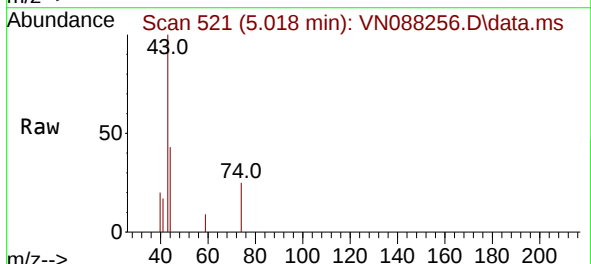
Instrument :
MSVOA_N
ClientSampleId :
TP-1

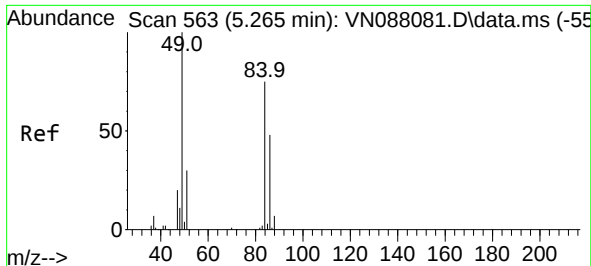
Tgt Ion: 43 Resp: 154787
Ion Ratio Lower Upper
43 100
58 26.1 22.6 33.8



#18
Methyl Acetate
Concen: 1.610 ug/l
RT: 5.018 min Scan# 521
Delta R.T. 0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

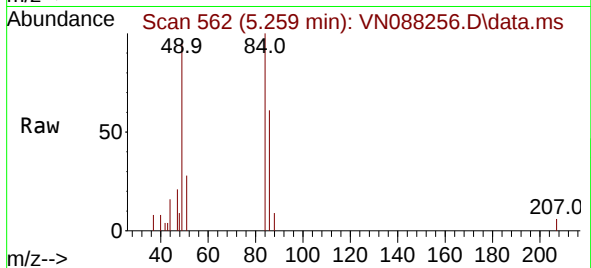
Tgt Ion: 43 Resp: 6029
Ion Ratio Lower Upper
43 100
74 11.6 17.6 26.4#



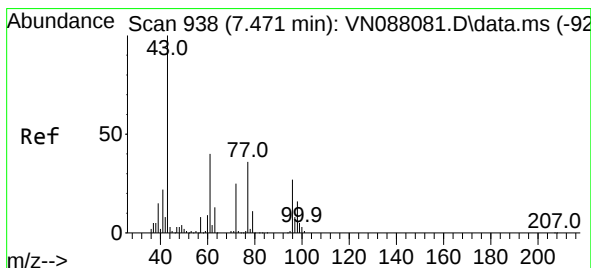
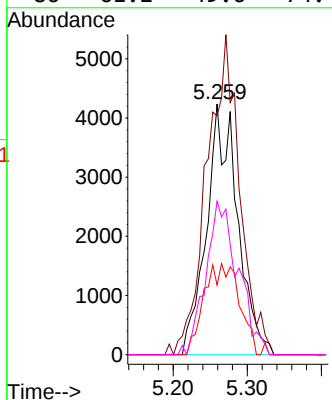
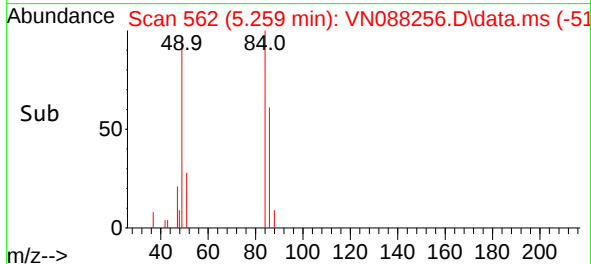


#20
Methylene Chloride
Concen: 4.004 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Instrument :
MSVOA_N
ClientSampleId :
TP-1

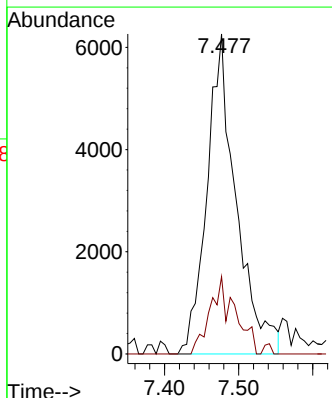
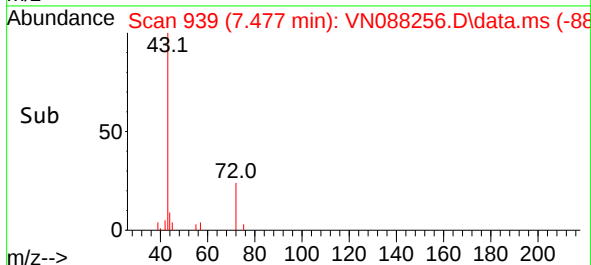
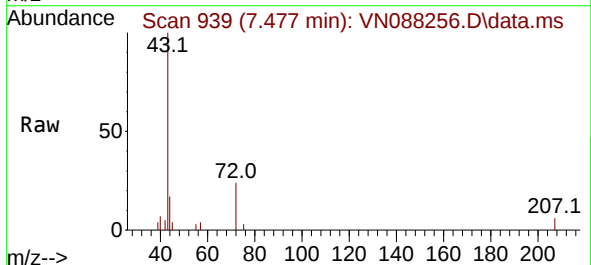


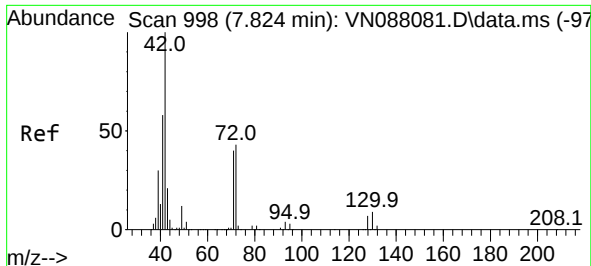
Tgt Ion:	84	Resp:	12293
Ion	Ratio	Lower	Upper
84	100		
49	95.3	103.4	155.2#
51	27.9	33.8	50.8#
86	61.2	49.6	74.4



#25
2-Butanone
Concen: 7.113 ug/l
RT: 7.477 min Scan# 939
Delta R.T. 0.012 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion:	43	Resp:	17144
Ion	Ratio	Lower	Upper
43	100		
72	24.1	19.9	29.9





#29

Tetrahydrofuran

Concen: 0.904 ug/l

RT: 7.830 min Scan# 998

Delta R.T. 0.006 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

TP-1

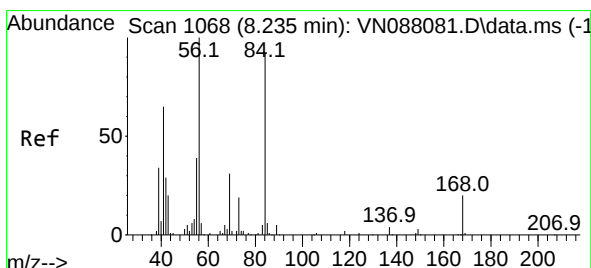
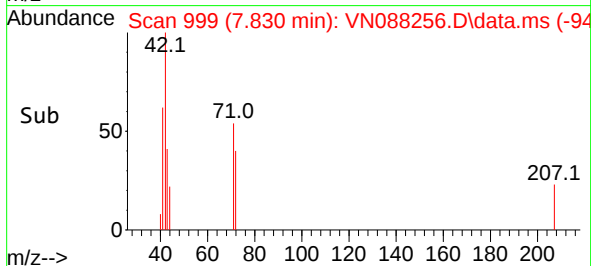
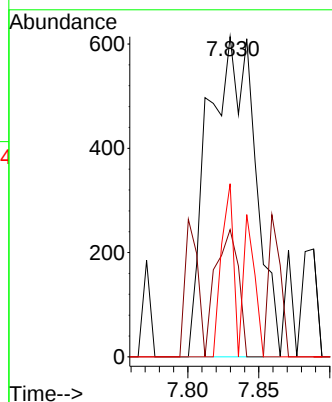
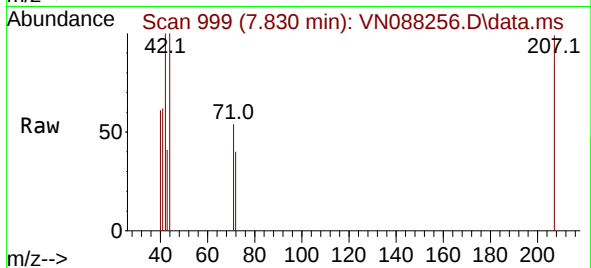
Tgt Ion: 42 Resp: 1420

Ion Ratio Lower Upper

42 100

72 19.4 33.7 50.5#

71 13.6 31.9 47.9#



#31

Cyclohexane

Concen: 1.267 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.029 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

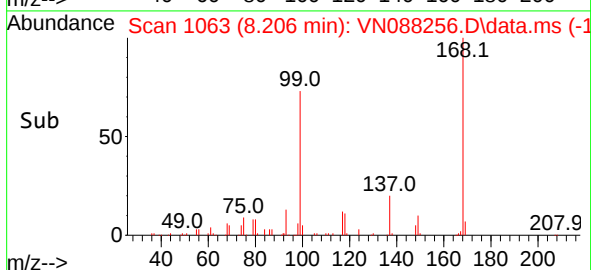
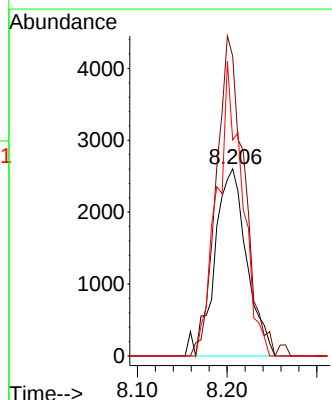
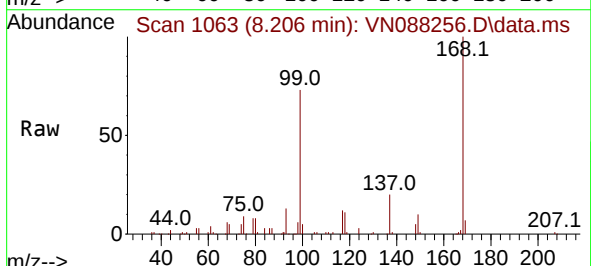
Tgt Ion: 56 Resp: 6456

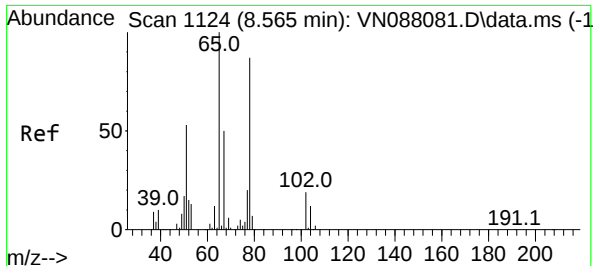
Ion Ratio Lower Upper

56 100

69 160.3 23.7 35.5#

84 115.4 64.7 97.1#





#33

1,2-Dichloroethane-d4

Concen: 59.974 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

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ClientSampleId :

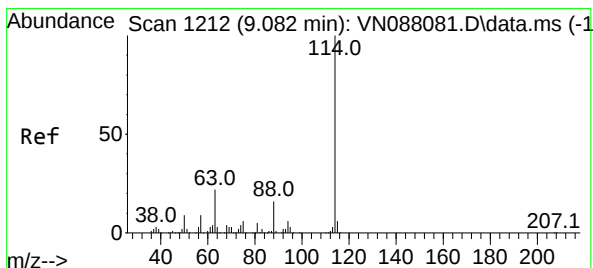
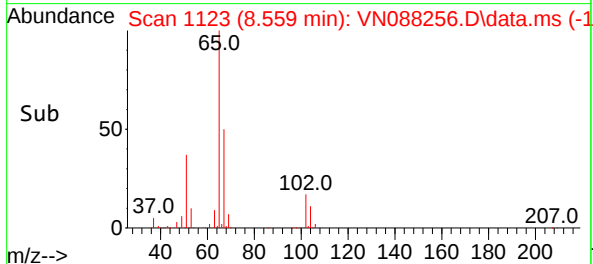
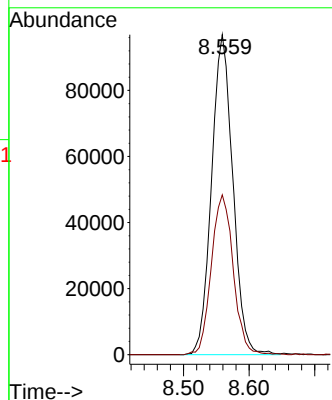
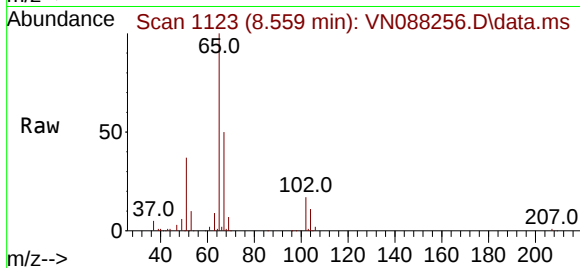
TP-1

Tgt Ion: 65 Resp: 218341

Ion Ratio Lower Upper

65 100

67 51.4 0.0 100.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.077 min Scan# 1211

Delta R.T. -0.006 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

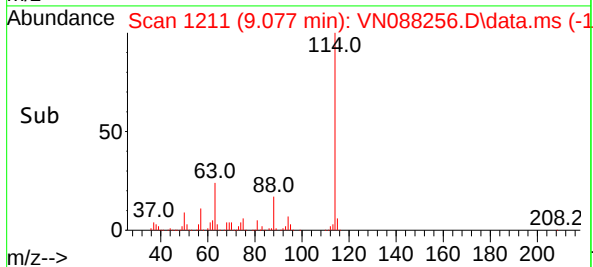
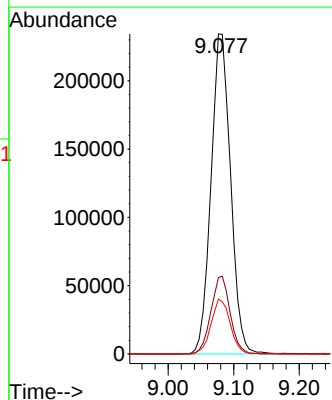
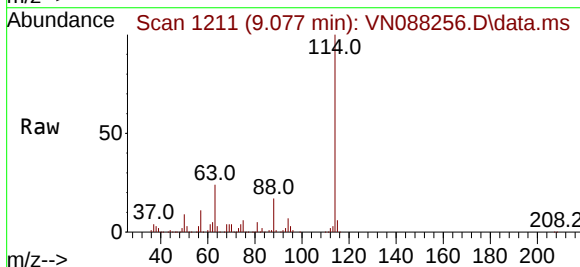
Tgt Ion: 114 Resp: 485695

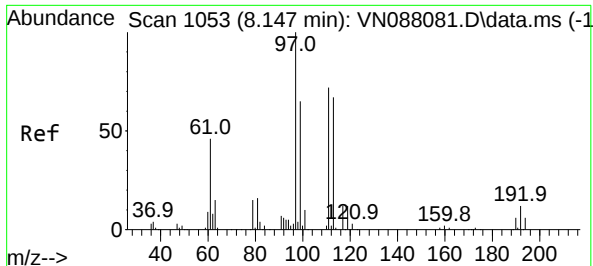
Ion Ratio Lower Upper

114 100

63 23.8 0.0 45.2

88 17.2 0.0 33.4

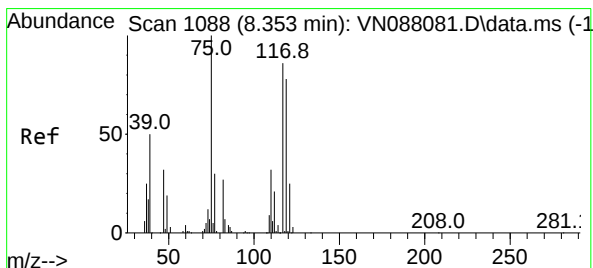
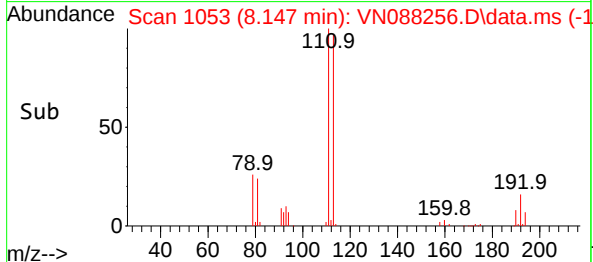
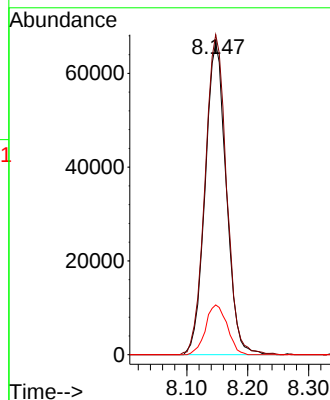
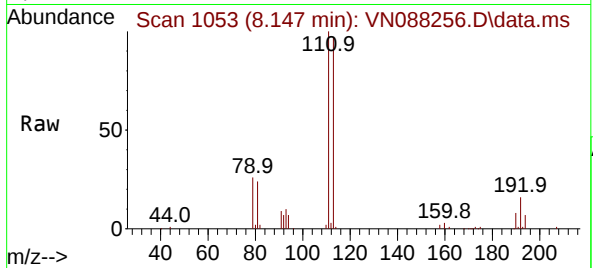




#35
Dibromofluoromethane
Concen: 48.946 ug/l
RT: 8.147 min Scan# 1053
Delta R.T. -0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

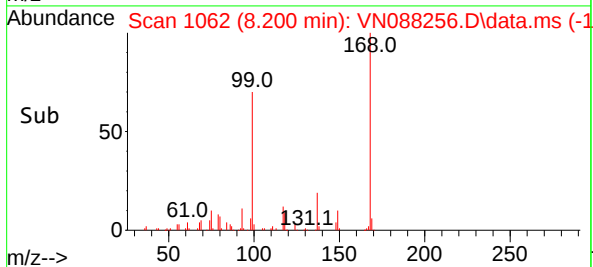
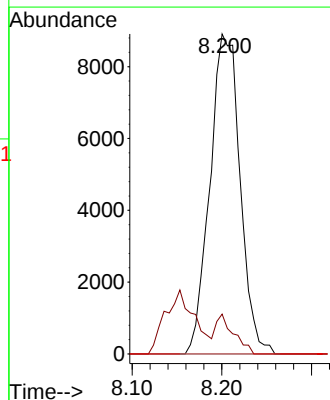
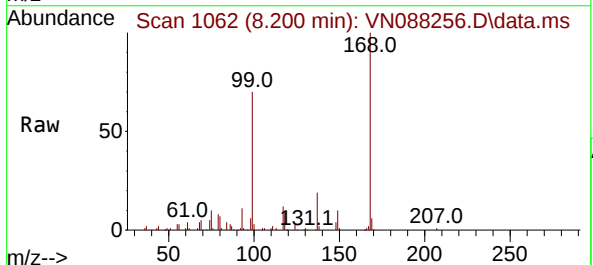
Instrument :
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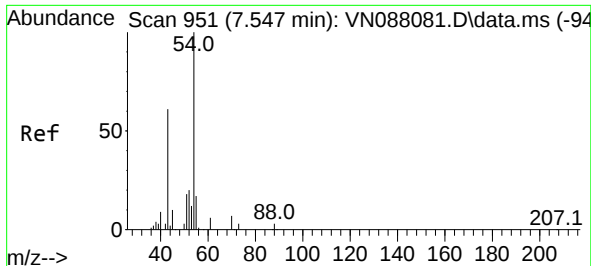
Tgt Ion:113 Resp: 159708
Ion Ratio Lower Upper
113 100
111 104.5 82.8 124.2
192 16.4 12.8 19.2



#36
1,1-Dichloropropene
Concen: 4.359 ug/l
RT: 8.200 min Scan# 1062
Delta R.T. -0.153 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion: 75 Resp: 20766
Ion Ratio Lower Upper
75 100
110 7.3 15.9 47.6#
77 0.0 24.4 36.6#





#37

Ethyl Acetate

Concen: 2.788 ug/l

RT: 7.477 min Scan# 91

Delta R.T. -0.071 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

TP-1

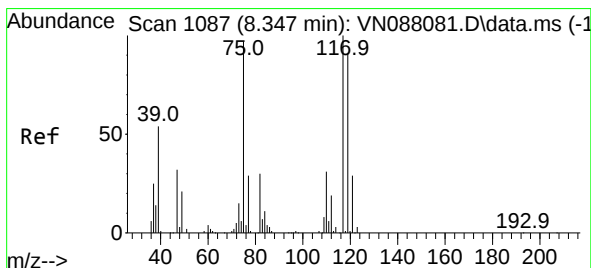
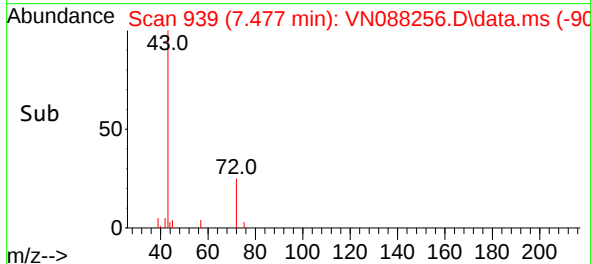
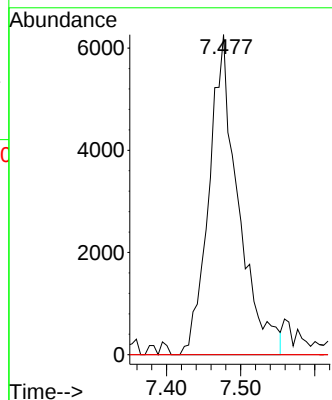
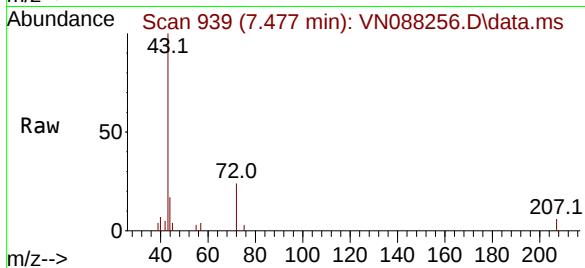
Tgt Ion: 43 Resp: 17144

Ion Ratio Lower Upper

43 100

61 0.0 9.3 13.9#

70 0.0 7.0 10.6#



#38

Carbon Tetrachloride

Concen: 4.946 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.141 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

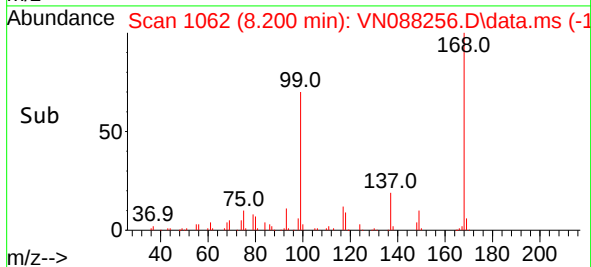
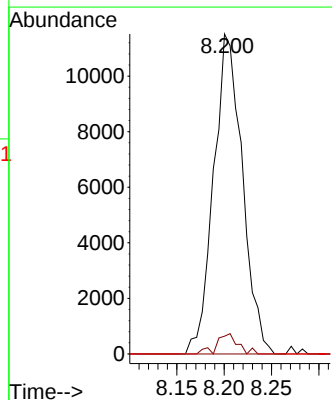
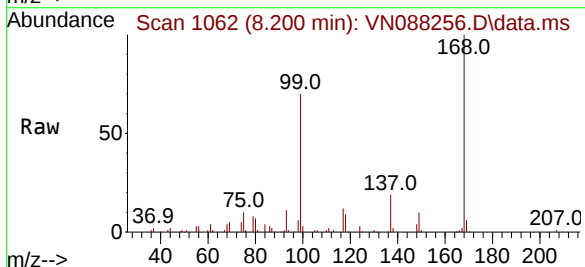
Tgt Ion: 117 Resp: 24336

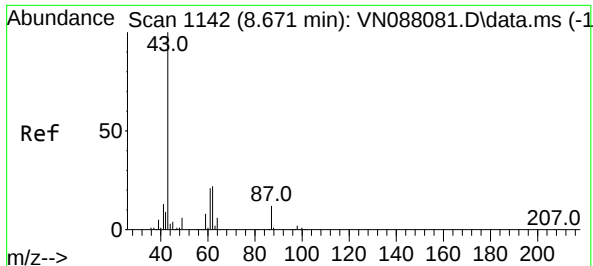
Ion Ratio Lower Upper

117 100

119 5.5 79.0 118.6#

121 0.0 25.0 37.6#

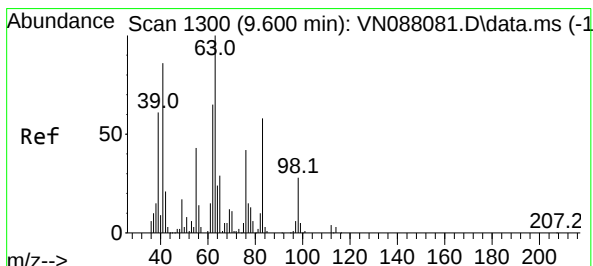
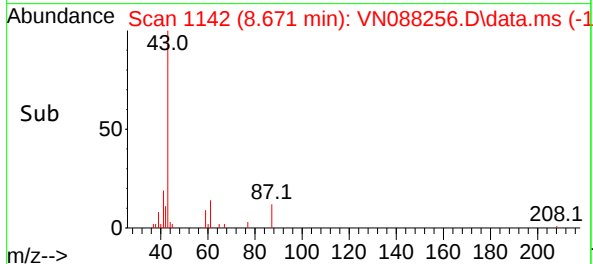
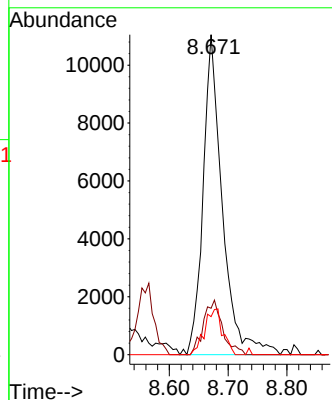
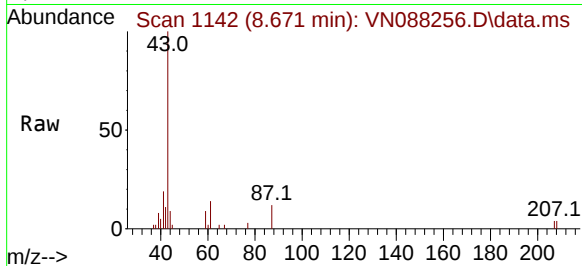




#43
Isopropyl Acetate
Concen: 2.660 ug/l
RT: 8.671 min Scan# 1142
Delta R.T. 0.000 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

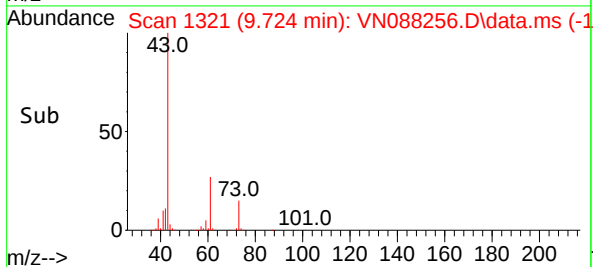
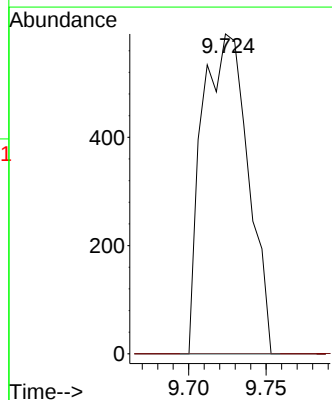
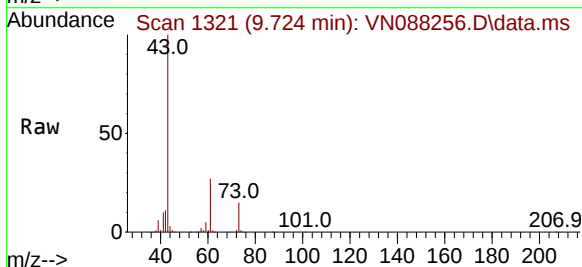
Instrument :
MSVOA_N
ClientSampleId :
TP-1

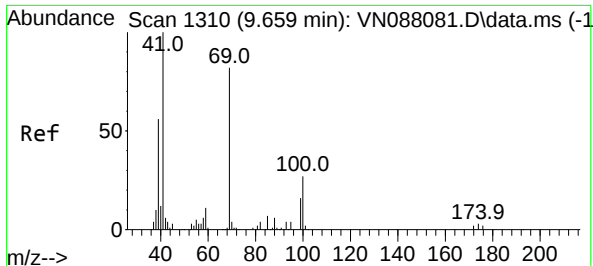
Tgt Ion	Ratio	Lower	Upper
43	100		
61	17.0	18.8	28.2#
87	13.4	9.6	14.4



#45
1,2-Dichloropropane
Concen: 0.332 ug/l
RT: 9.724 min Scan# 1321
Delta R.T. 0.124 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.0	37.4#





#48

Methyl methacrylate

Concen: 19.548 ug/l

RT: 9.724 min Scan# 1

Delta R.T. 0.059 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

TP-1

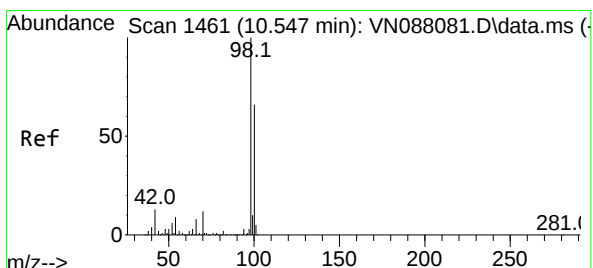
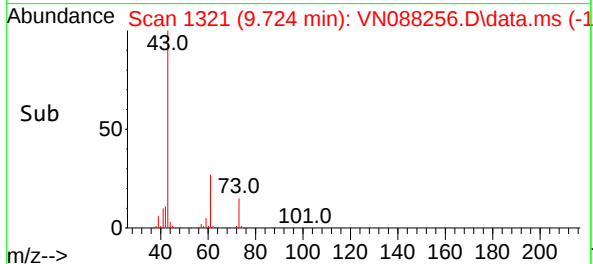
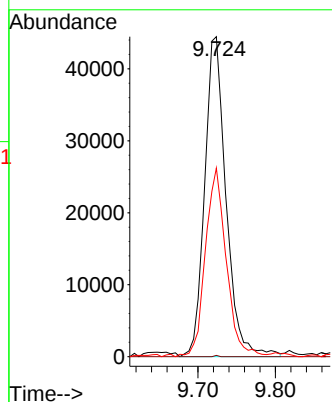
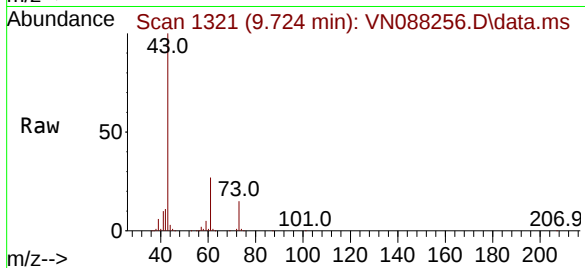
Tgt Ion: 41 Resp: 85262

Ion Ratio Lower Upper

41 100

69 0.1 62.7 94.1#

39 57.6 52.9 79.3



#50

Toluene-d8

Concen: 47.350 ug/l

RT: 10.541 min Scan# 1460

Delta R.T. -0.006 min

Lab File: VN088256.D

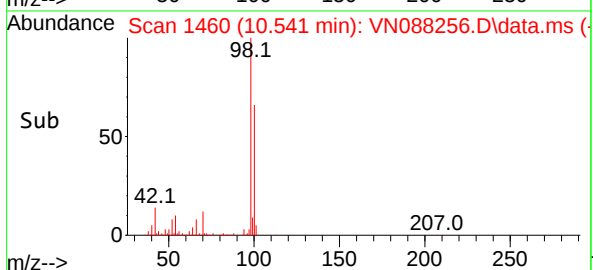
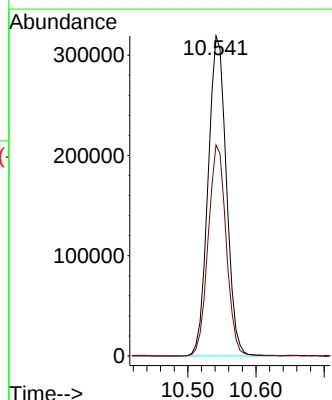
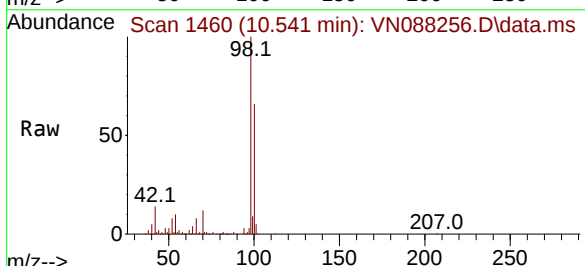
Acq: 11 Nov 2025 14:45

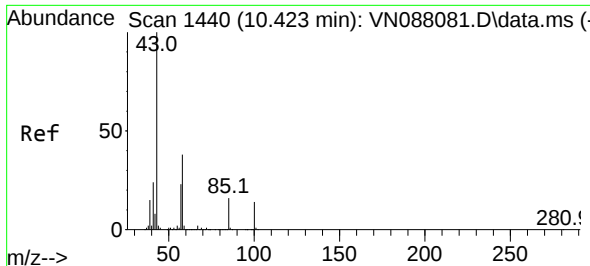
Tgt Ion: 98 Resp: 595314

Ion Ratio Lower Upper

98 100

100 64.9 52.8 79.2

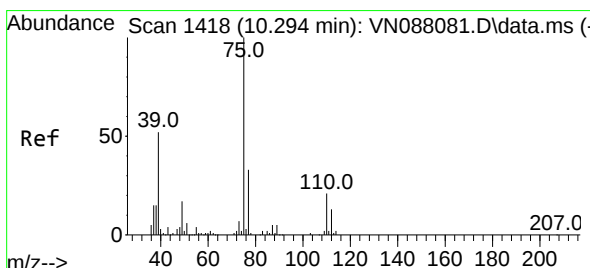
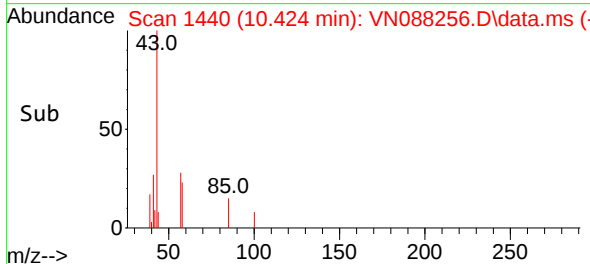
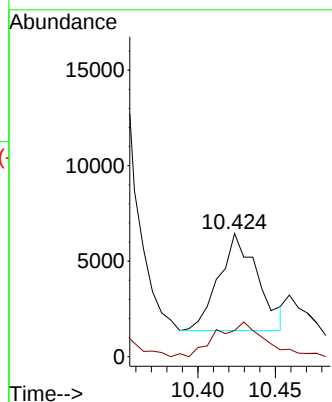
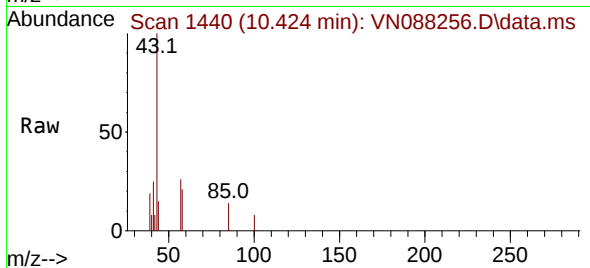




#51
4-Methyl-2-Pentanone
Concen: 1.584 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

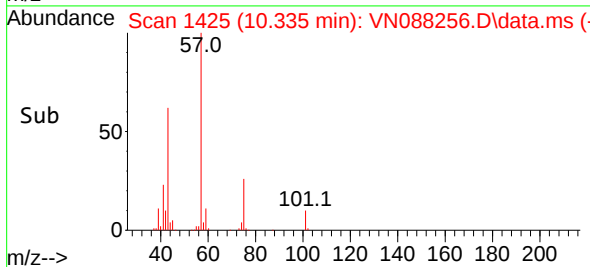
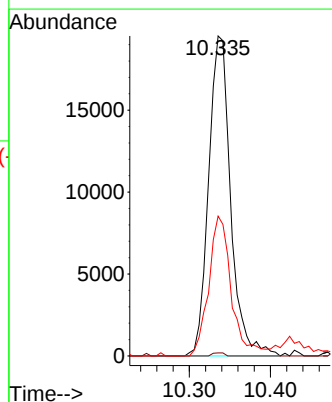
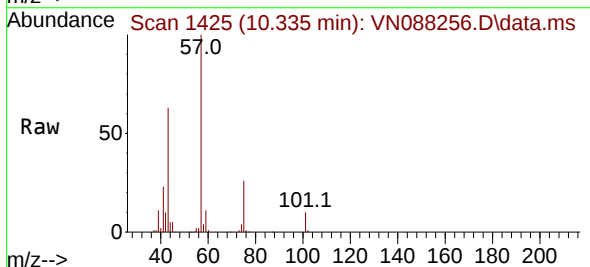
Instrument :
MSVOA_N
ClientSampleId :
TP-1

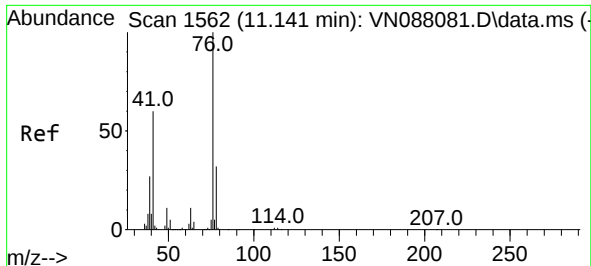
Tgt Ion: 43 Resp: 8855
Ion Ratio Lower Upper
43 100
58 45.3 29.6 44.4#



#54
cis-1,3-Dichloropropene
Concen: 6.229 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.047 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion: 75 Resp: 36795
Ion Ratio Lower Upper
75 100
77 1.0 24.6 37.0#
39 43.7 45.2 67.8#

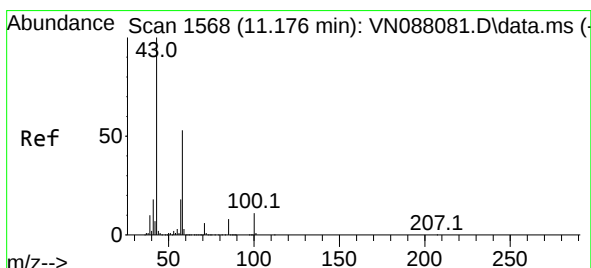
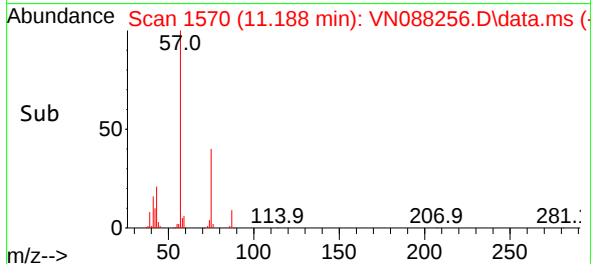
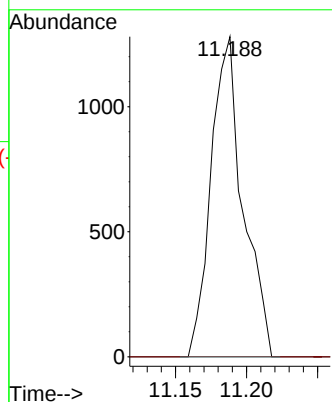
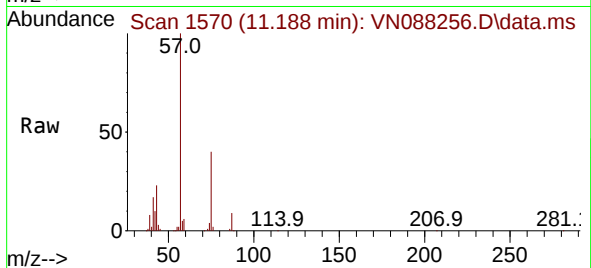




#57
1,3-Dichloropropane
Concen: 0.335 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. 0.047 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

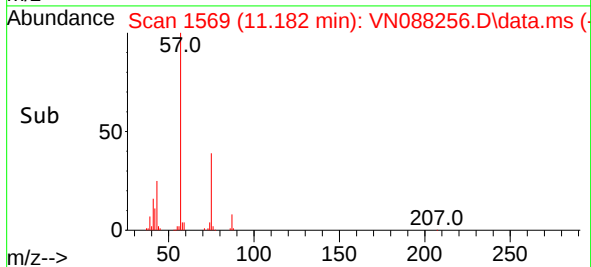
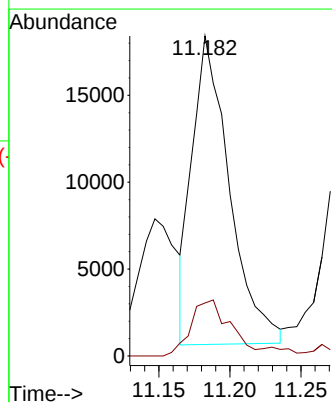
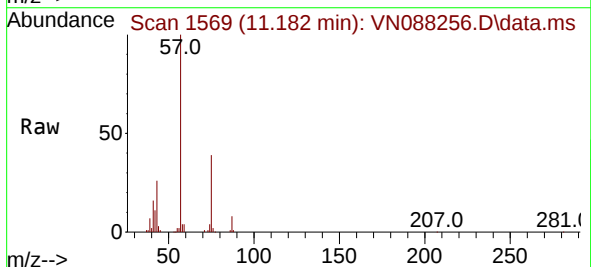
Instrument :
MSVOA_N
ClientSampleId :
TP-1

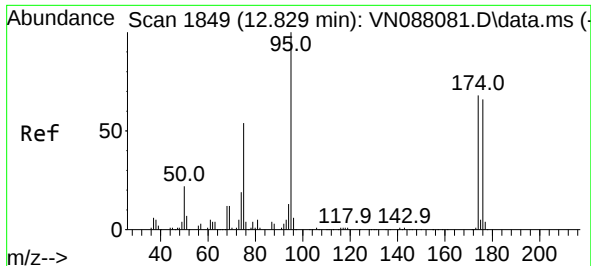
Tgt Ion: 76 Resp: 2000
Ion Ratio Lower Upper
76 100
78 0.0 26.2 39.4#



#59
2-Hexanone
Concen: 8.718 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. 0.006 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion: 43 Resp: 32324
Ion Ratio Lower Upper
43 100
58 19.4 25.9 77.8#

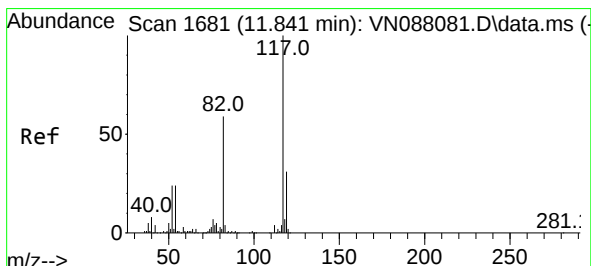
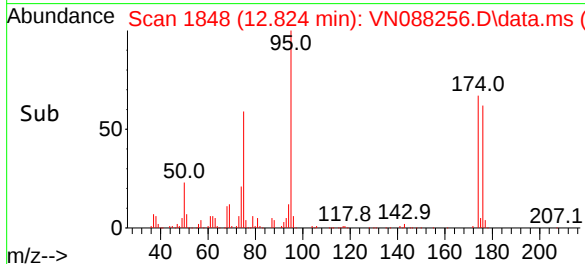
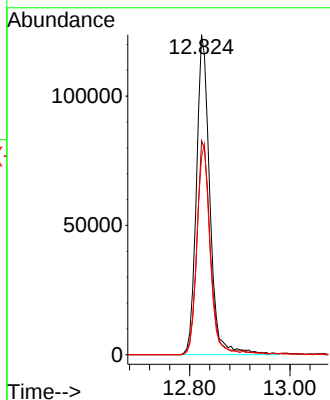
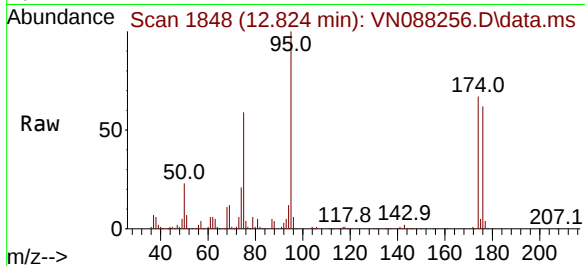




#62
4-Bromofluorobenzene
Concen: 51.729 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. 0.000 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

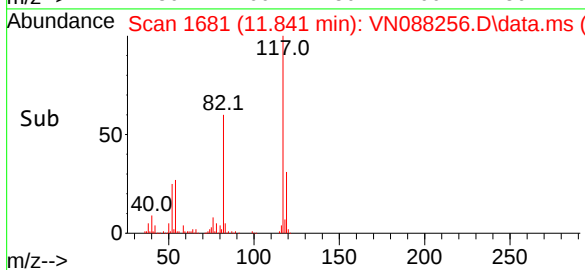
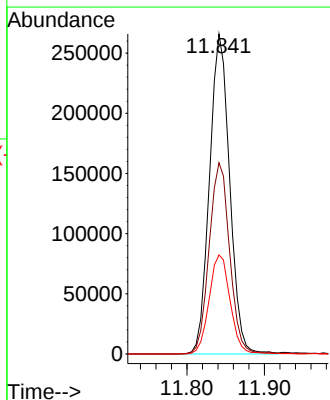
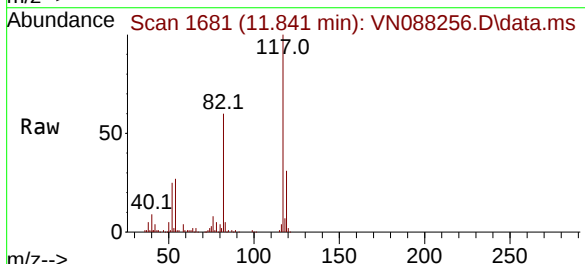
Instrument :
MSVOA_N
ClientSampleId :
TP-1

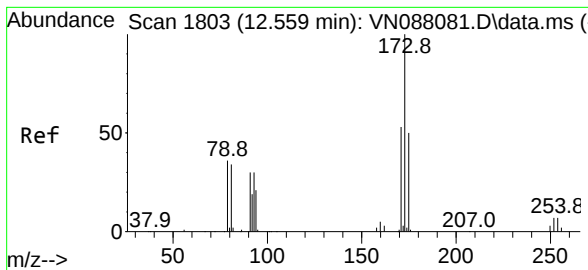
Tgt Ion: 95 Resp: 229687
Ion Ratio Lower Upper
95 100
174 65.9 0.0 138.4
176 64.1 0.0 132.6



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. 0.000 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

Tgt Ion: 117 Resp: 480433
Ion Ratio Lower Upper
117 100
82 59.7 47.4 71.2
119 31.0 24.3 36.5





#71

Bromoform

Concen: 0.220 ug/l

RT: 12.818 min Scan# 11

Delta R.T. 0.259 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

Instrument :

MSVOA_N

ClientSampleId :

TP-1

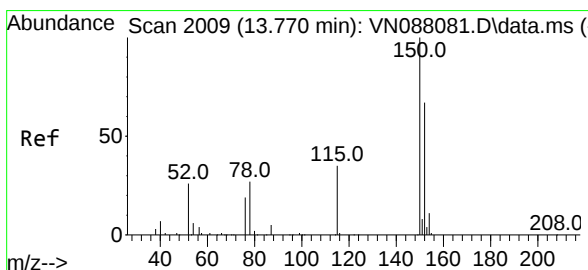
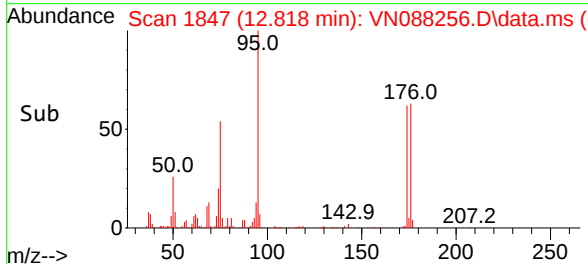
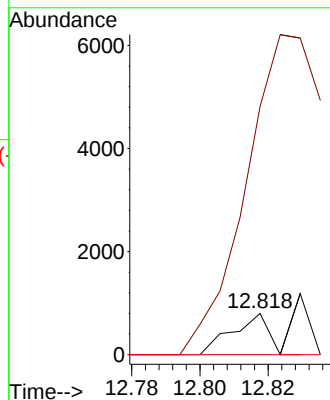
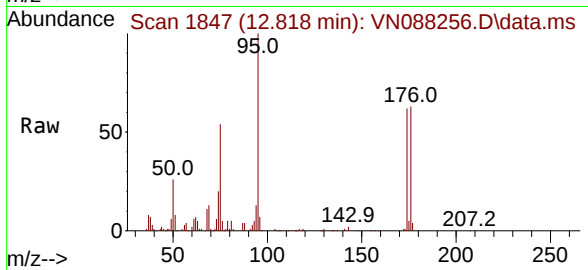
Tgt Ion:173 Resp: 588

Ion Ratio Lower Upper

173 100

175 0.0 24.9 74.6#

254 0.0 0.1 0.1#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.771 min Scan# 2009

Delta R.T. 0.006 min

Lab File: VN088256.D

Acq: 11 Nov 2025 14:45

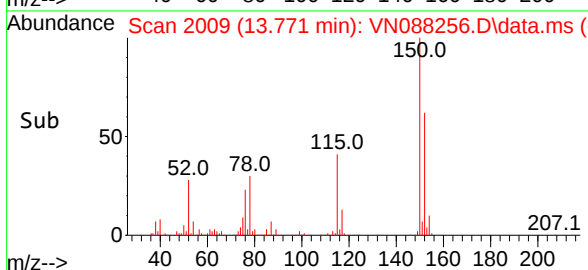
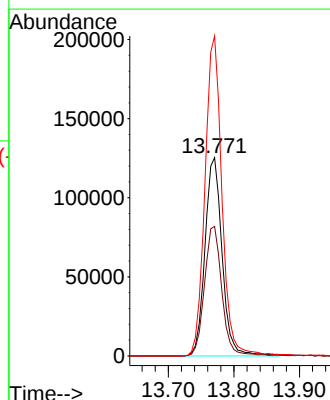
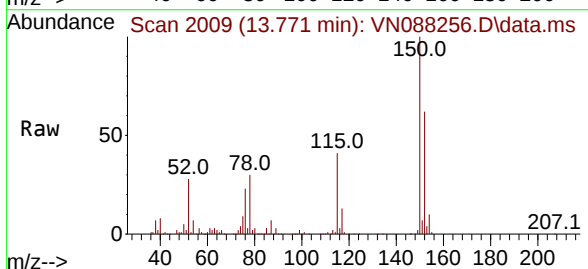
Tgt Ion:152 Resp: 228833

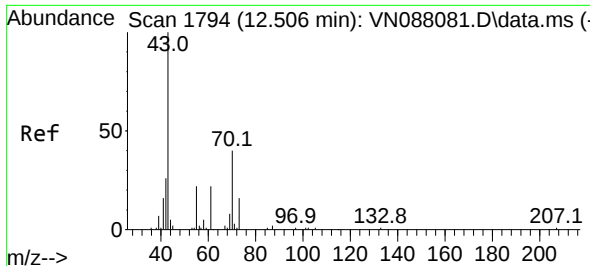
Ion Ratio Lower Upper

152 100

115 65.9 32.3 96.8

150 159.6 0.0 351.0

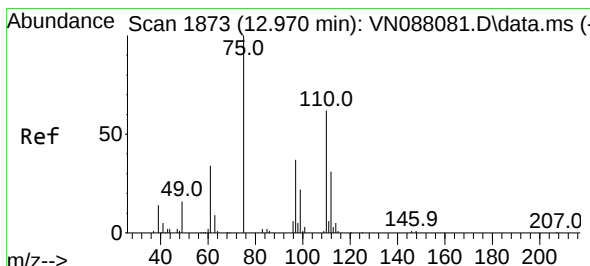
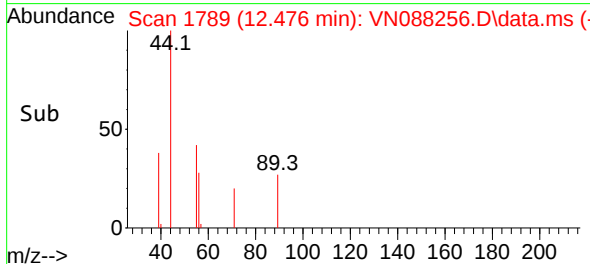
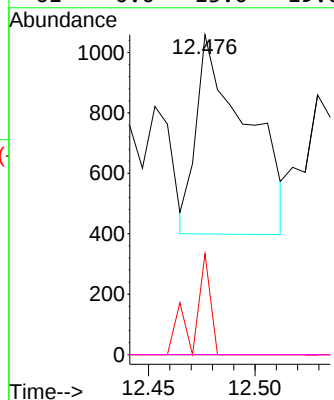
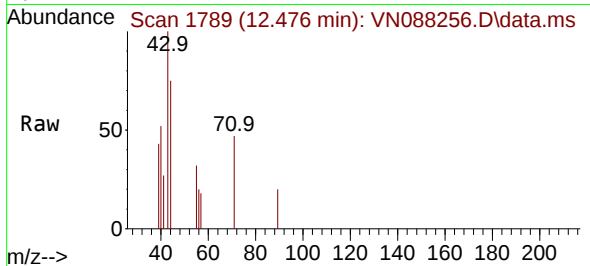




#74
N-amy1 acetate
Concen: 0.216 ug/l
RT: 12.476 min Scan# 11
Delta R.T. -0.024 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

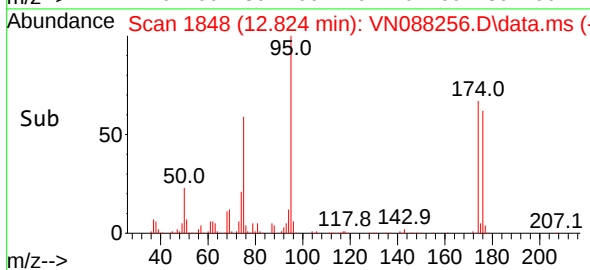
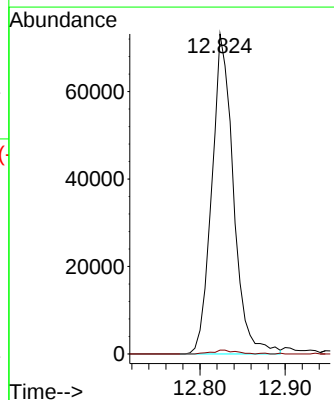
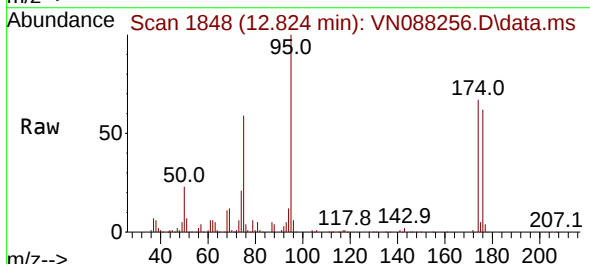
Instrument :
MSVOA_N
ClientSampleId :
TP-1

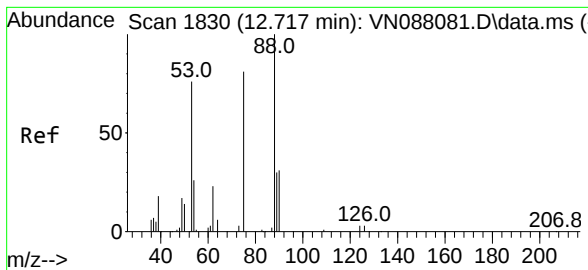
Tgt Ion: 43	Resp: 1083
Ion Ratio	Lower Upper
43	100
70	0.0 27.6 41.4#
55	16.5 13.0 19.6
61	0.0 13.0 19.6#



#76
1,2,3-Trichloropropane
Concen: 24.649 ug/l
RT: 12.824 min Scan# 1848
Delta R.T. -0.147 min
Lab File: VN088256.D
Acq: 11 Nov 2025 14:45

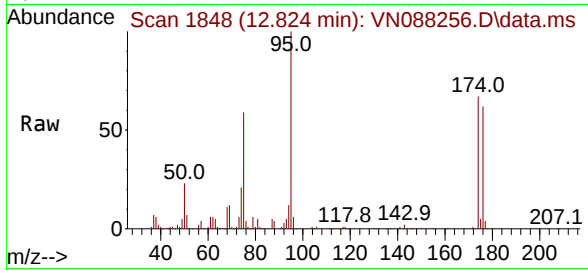
Tgt Ion: 75	Resp: 128961
Ion Ratio	Lower Upper
75	100
77	1.3 89.1 267.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 68.760 ug/l
 RT: 12.824 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN088256.D
 Acq: 11 Nov 2025 14:45

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-1



Tgt Ion: 75 Resp: 128961
 Ion Ratio Lower Upper
 75 100
 53 0.1 101.8 152.6#
 89 0.1 35.6 53.4#

