

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120425\
 Data File : VN088458.D
 Acq On : 04 Dec 2025 19:32
 Operator : JC\MD
 Sample : PB170809TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 24 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB170809TB

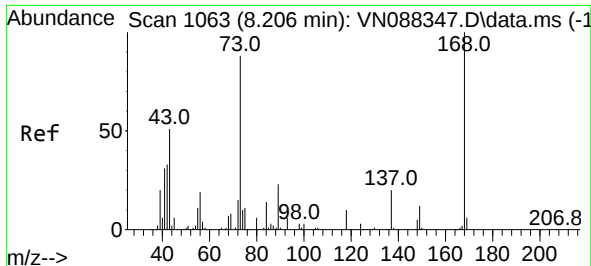
Quant Time: Dec 05 00:21:02 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112425W.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 25 01:34:52 2025
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.206	168	205839	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.083	114	486216	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.841	117	496047	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.770	152	228646	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.559	65	223077	57.530	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	115.060%
35) Dibromofluoromethane	8.147	113	159440	47.319	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.640%
50) Toluene-d8	10.547	98	576429	45.978	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	91.960%
62) 4-Bromofluorobenzene	12.829	95	218842	50.874	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	101.740%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.512	59	2790	4.507	ug/l #	77
16) Acetone	4.424	43	79682	56.821	ug/l	99
18) Methyl Acetate	5.030	43	7109	1.703	ug/l #	82
20) Methylene Chloride	5.265	84	18017	6.005	ug/l #	83
25) 2-Butanone	7.471	43	31937	14.166	ug/l	92
29) Tetrahydrofuran	7.836	42	1722	1.065	ug/l #	60
31) Cyclohexane	8.200	56	6203	1.216	ug/l #	2
36) 1,1-Dichloropropene	8.206	75	22007	4.232	ug/l #	51
37) Ethyl Acetate	7.471	43	31937	4.671	ug/l #	72
38) Carbon Tetrachloride	8.206	117	25744	4.973	ug/l #	17
41) Methacrylonitrile	7.841	41	871	0.257	ug/l #	46
43) Isopropyl Acetate	8.677	43	28877	2.764	ug/l #	89
45) 1,2-Dichloropropane	9.724	63	1793	0.459	ug/l #	46
48) Methyl methacrylate	9.641	41	4854	1.018	ug/l #	13
49) 1,4-Dioxane	9.706	88	115	1.897	ug/l #	11
51) 4-Methyl-2-Pentanone	10.424	43	8883	1.443	ug/l	90
54) cis-1,3-Dichloropropene	10.335	75	41434	6.741	ug/l #	68
57) 1,3-Dichloropropane	11.177	76	3551	0.577	ug/l #	42
59) 2-Hexanone	11.188	43	70473	18.167	ug/l #	58
76) 1,2,3-Trichloropropane	12.829	75	131968	24.643	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.829	75	131968	69.909	ug/l #	1

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

Quant Time: Dec 05 00:21:02 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

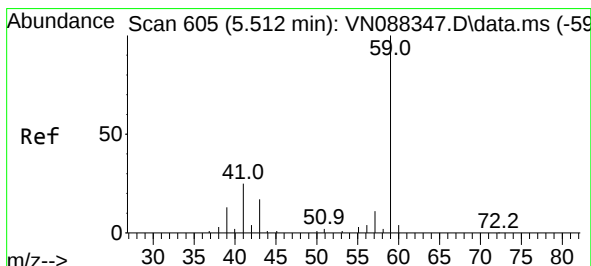
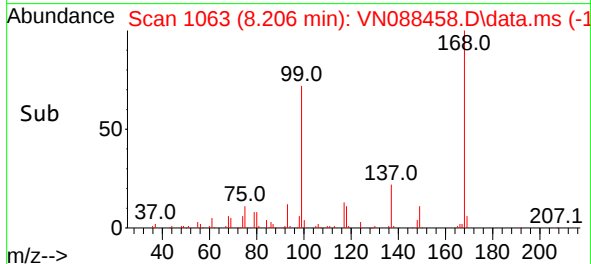
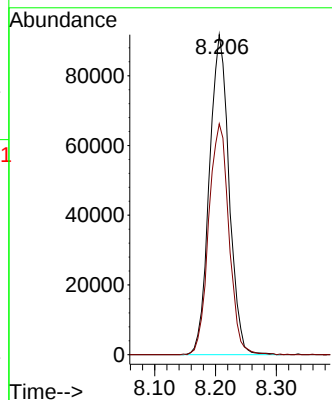
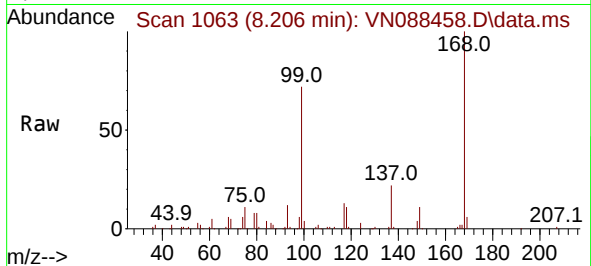




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.206 min Scan# 1063
Delta R.T. 0.000 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

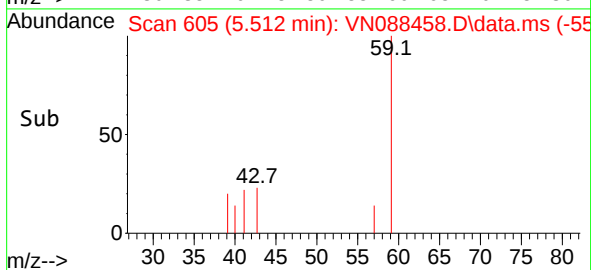
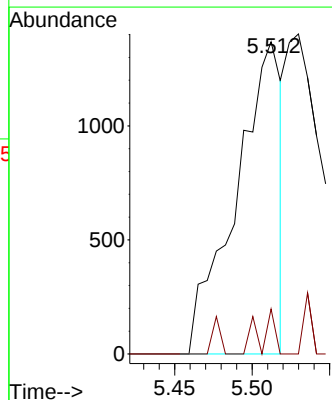
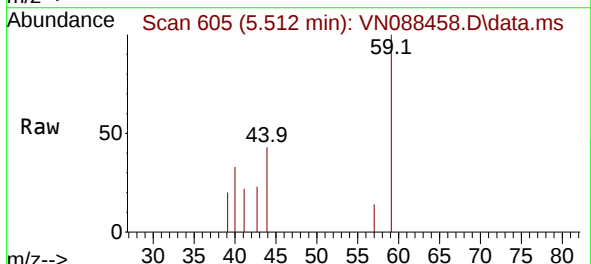
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB

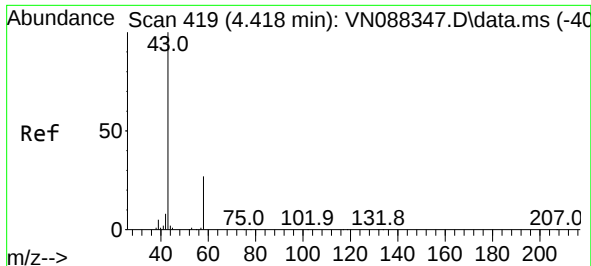
Tgt Ion:168 Resp: 205839
Ion Ratio Lower Upper
168 100
99 72.1 57.1 85.7



#11
Tert butyl alcohol
Concen: 4.507 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 59 Resp: 2790
Ion Ratio Lower Upper
59 100
57 2.1 8.5 12.7#

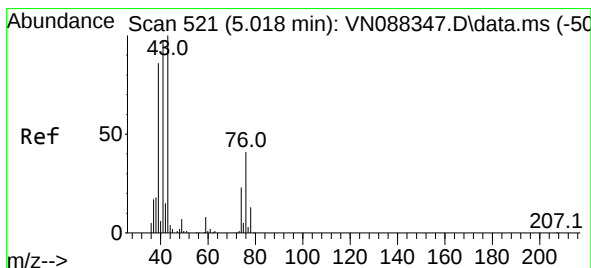
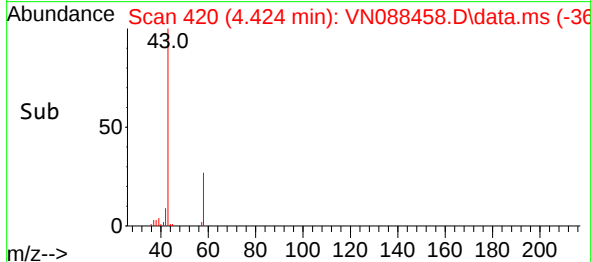
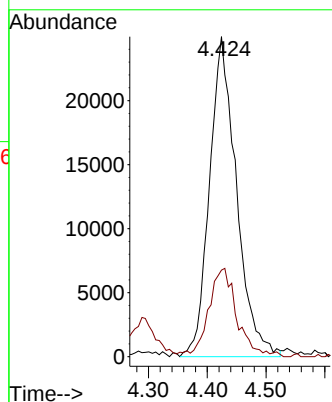
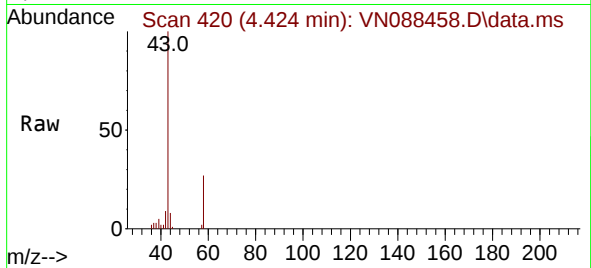




#16
Acetone
Concen: 56.821 ug/l
RT: 4.424 min Scan# 419
Delta R.T. 0.006 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

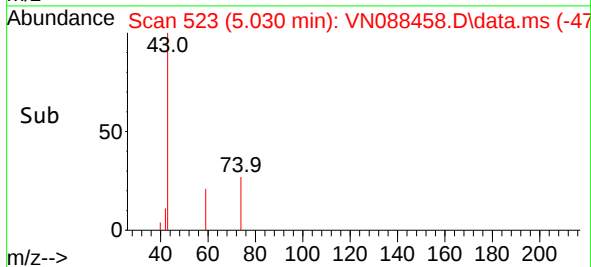
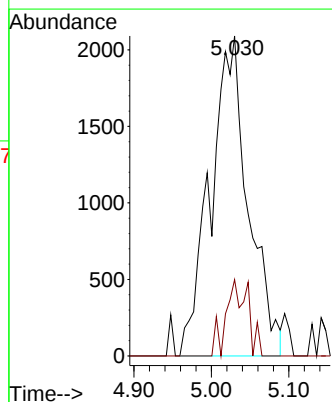
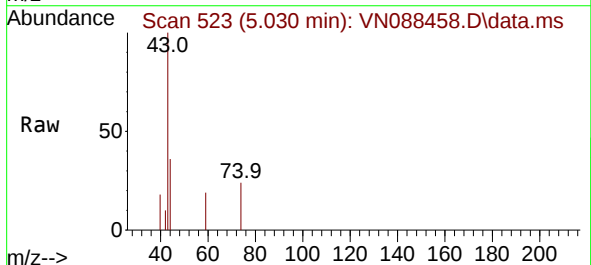
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB

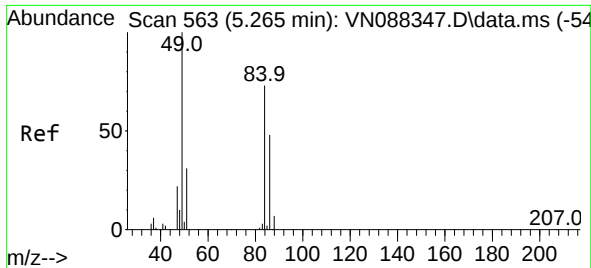
Tgt Ion: 43 Resp: 79682
Ion Ratio Lower Upper
43 100
58 26.4 21.7 32.5



#18
Methyl Acetate
Concen: 1.703 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 43 Resp: 7109
Ion Ratio Lower Upper
43 100
74 13.8 17.9 26.9#

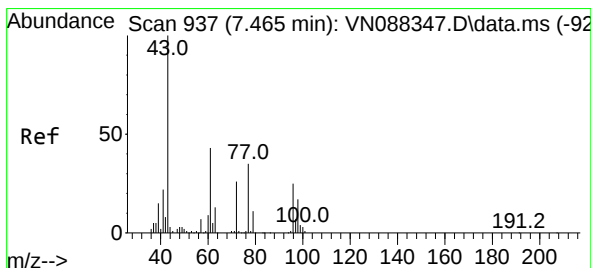
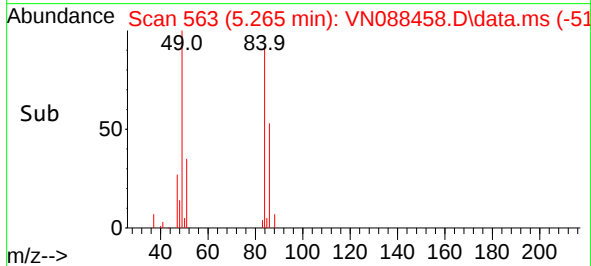
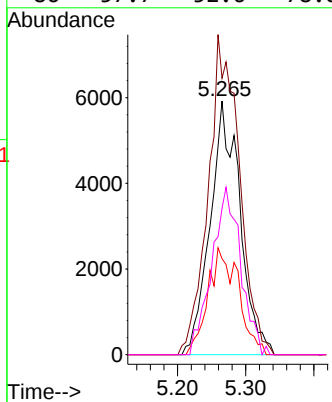
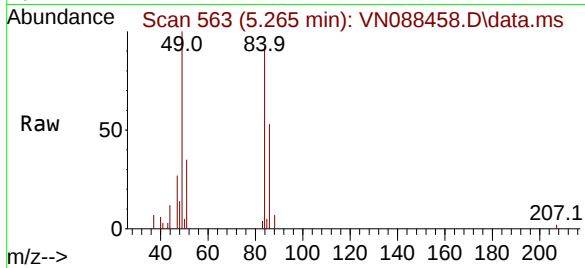




#20
Methylene Chloride
Concen: 6.005 ug/l
RT: 5.265 min Scan# 51
Delta R.T. 0.000 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

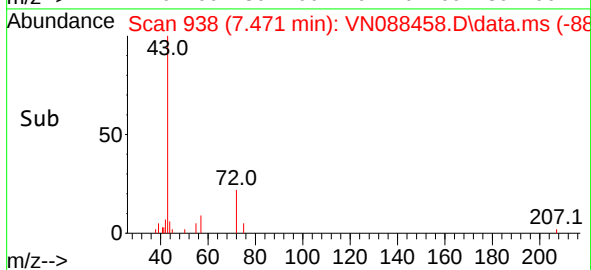
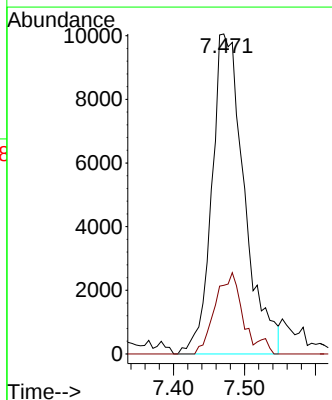
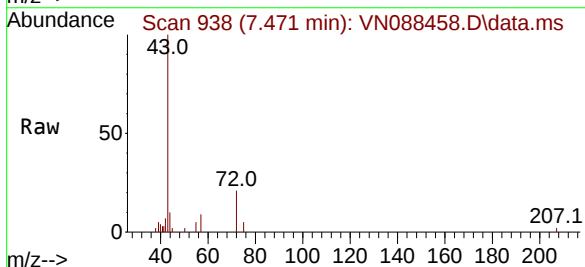
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB

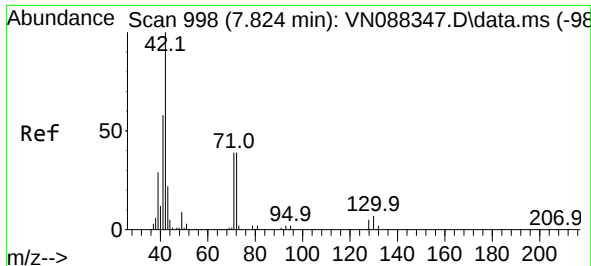
Tgt Ion: 84 Resp: 18017
Ion Ratio Lower Upper
84 100
49 109.1 110.2 165.2#
51 37.9 34.1 51.1
86 57.7 52.6 78.8



#25
2-Butanone
Concen: 14.166 ug/l
RT: 7.471 min Scan# 938
Delta R.T. 0.006 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 43 Resp: 31937
Ion Ratio Lower Upper
43 100
72 21.4 20.5 30.7





#29

Tetrahydrofuran

Concen: 1.065 ug/l

RT: 7.836 min Scan# 1000

Delta R.T. 0.012 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB170809TB

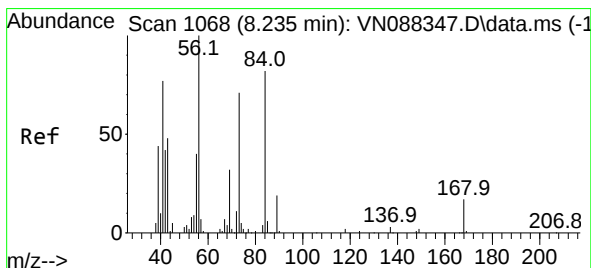
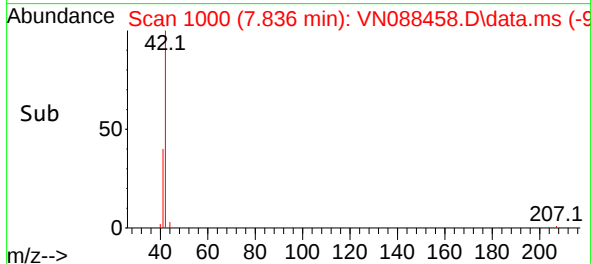
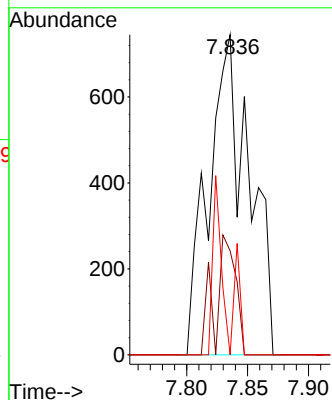
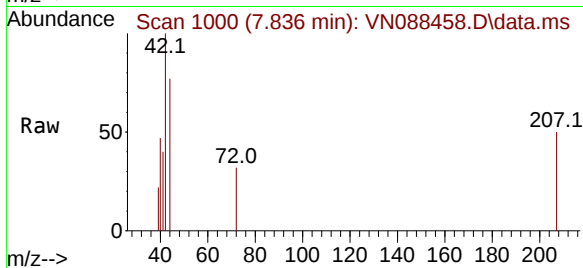
Tgt Ion: 42 Resp: 1722

Ion Ratio Lower Upper

42 100

72 18.6 32.2 48.4#

71 11.7 31.1 46.7#



#31

Cyclohexane

Concen: 1.216 ug/l

RT: 8.200 min Scan# 1062

Delta R.T. -0.035 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

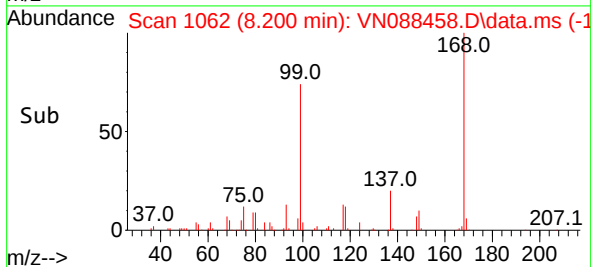
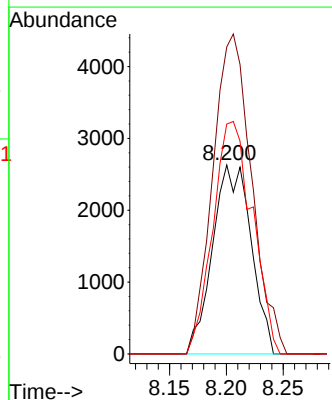
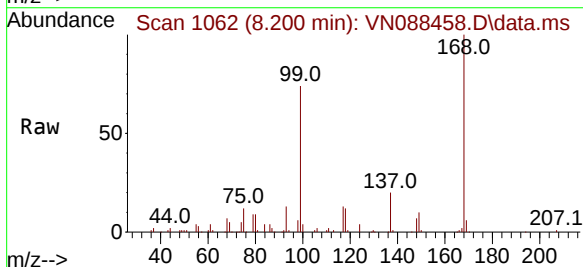
Tgt Ion: 56 Resp: 6203

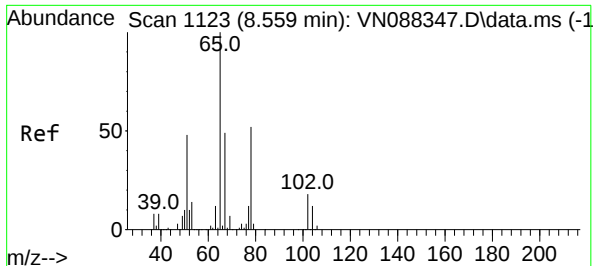
Ion Ratio Lower Upper

56 100

69 162.5 25.3 37.9#

84 121.7 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: 57.530 ug/l

RT: 8.559 min Scan# 1123

Delta R.T. 0.000 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

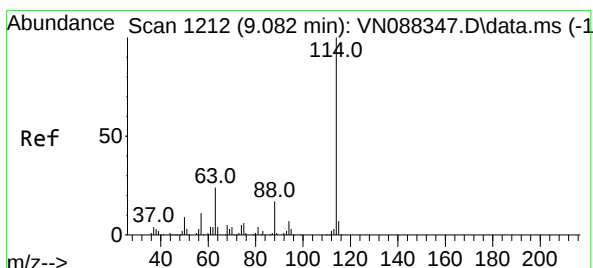
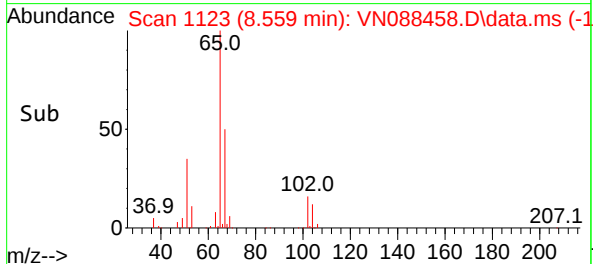
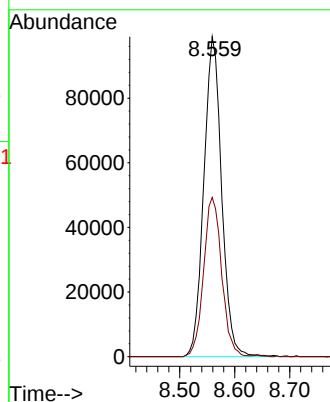
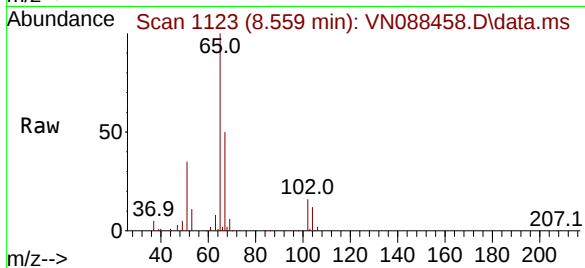
PB170809TB

Tgt Ion: 65 Resp: 223077

Ion Ratio Lower Upper

65 100

67 50.5 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: VN088458.D

Acq: 04 Dec 2025 19:32

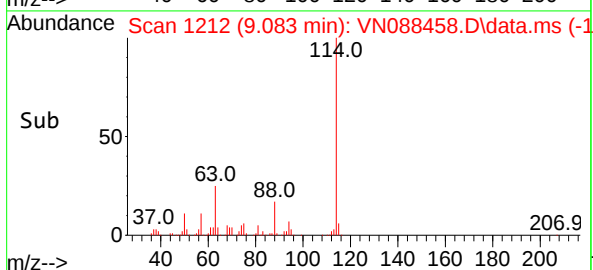
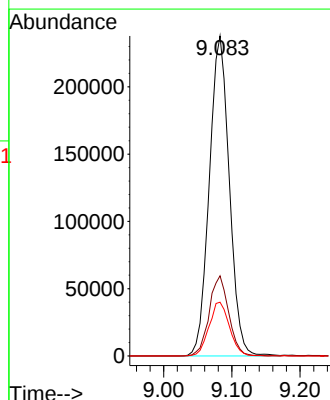
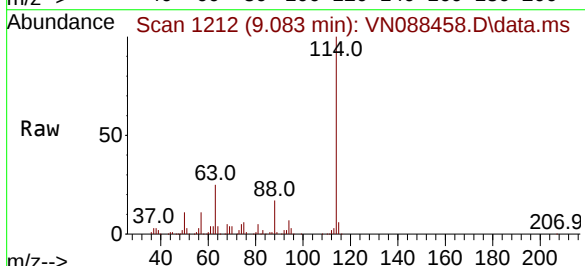
Tgt Ion: 114 Resp: 486216

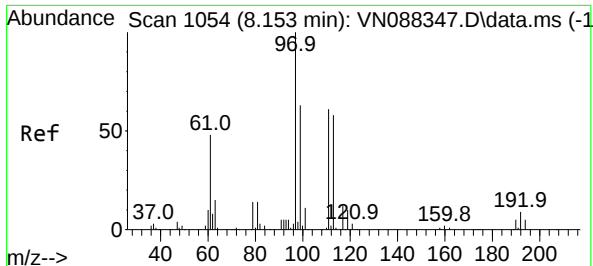
Ion Ratio Lower Upper

114 100

63 25.1 0.0 49.0

88 16.8 0.0 34.0





#35

Dibromofluoromethane

Concen: 47.319 ug/l

RT: 8.147 min Scan# 1053

Delta R.T. -0.006 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB170809TB

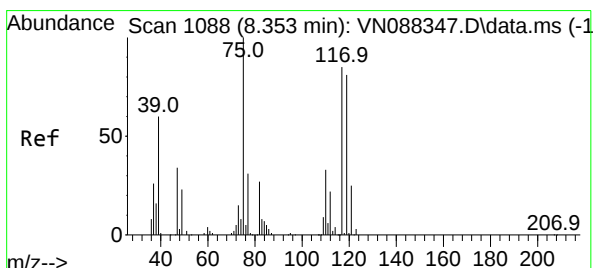
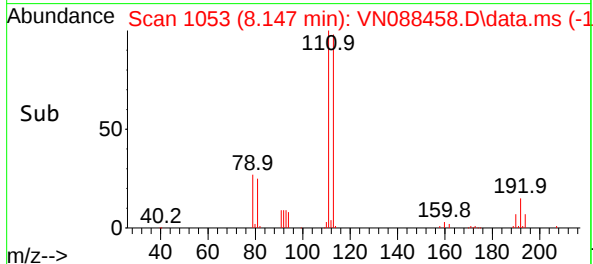
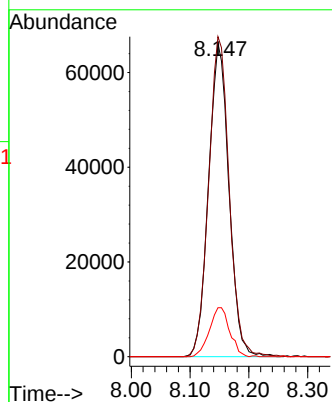
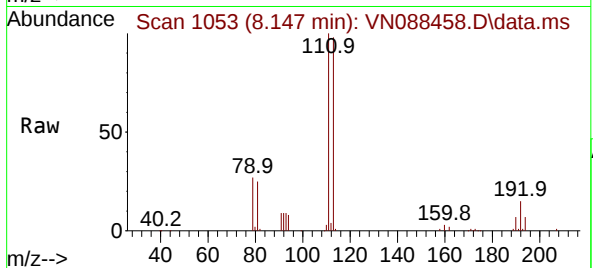
Tgt Ion:113 Resp: 159440

Ion Ratio Lower Upper

113 100

111 102.7 82.5 123.7

192 15.6 12.8 19.2



#36

1,1-Dichloropropene

Concen: 4.232 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.147 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

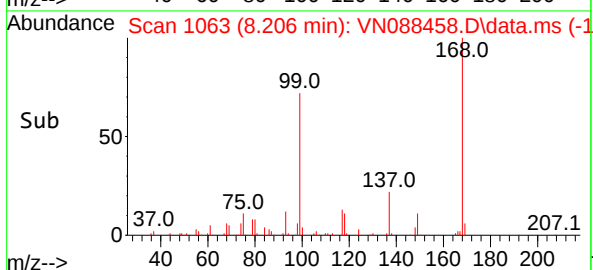
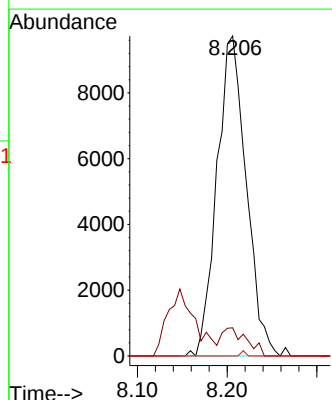
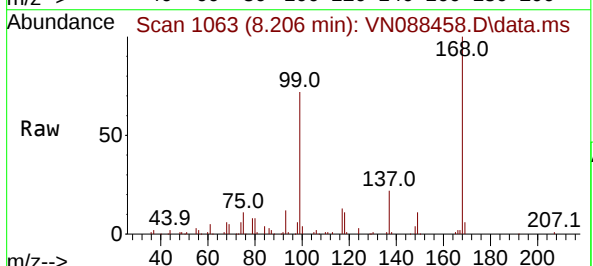
Tgt Ion: 75 Resp: 22007

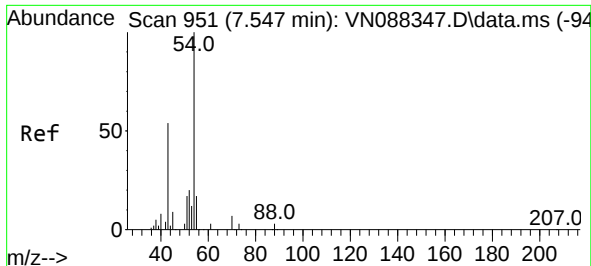
Ion Ratio Lower Upper

75 100

110 7.4 15.8 47.4#

77 0.3 24.2 36.2#





#37

Ethyl Acetate

Concen: 4.671 ug/l

RT: 7.471 min Scan# 91

Delta R.T. -0.076 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB170809TB

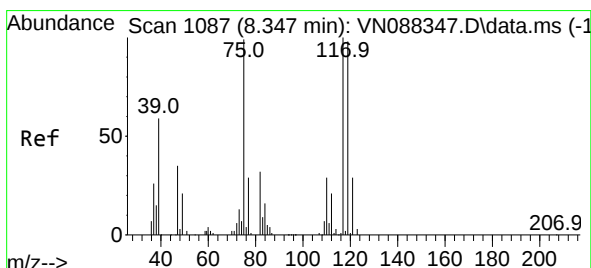
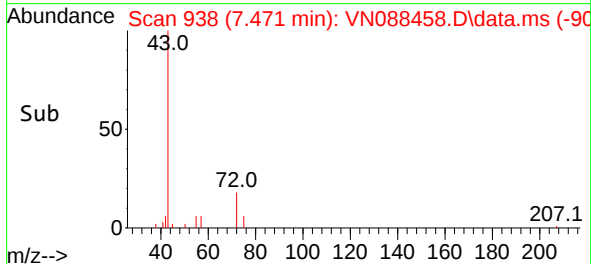
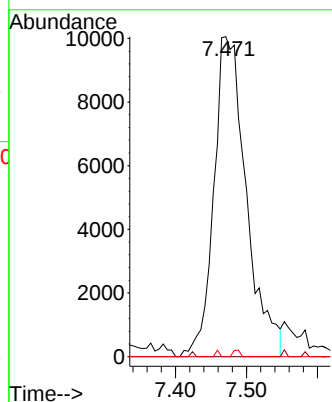
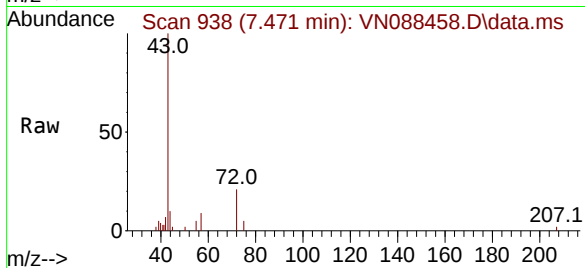
Tgt Ion: 43 Resp: 31937

Ion Ratio Lower Upper

43 100

61 0.0 9.5 14.3#

70 0.2 7.1 10.7#



#38

Carbon Tetrachloride

Concen: 4.973 ug/l

RT: 8.206 min Scan# 1063

Delta R.T. -0.141 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

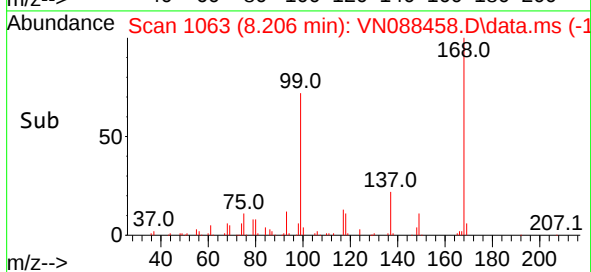
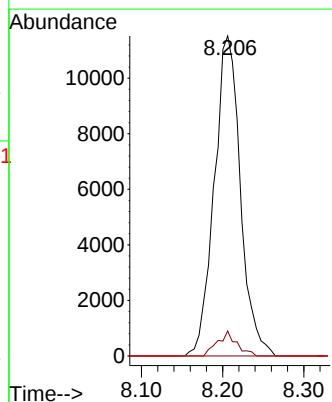
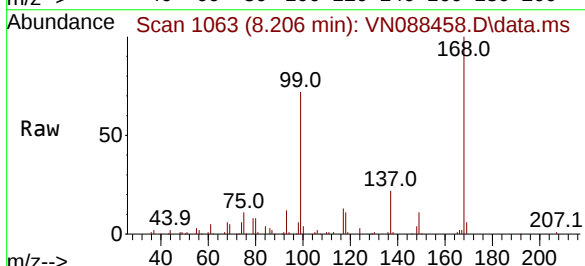
Tgt Ion: 117 Resp: 25744

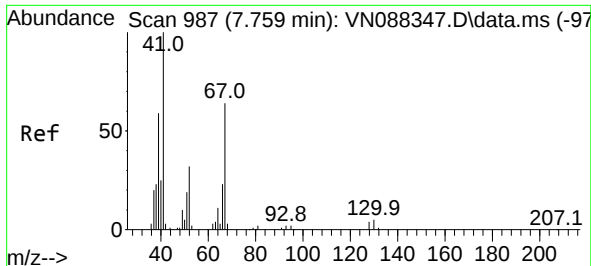
Ion Ratio Lower Upper

117 100

119 7.8 78.2 117.4#

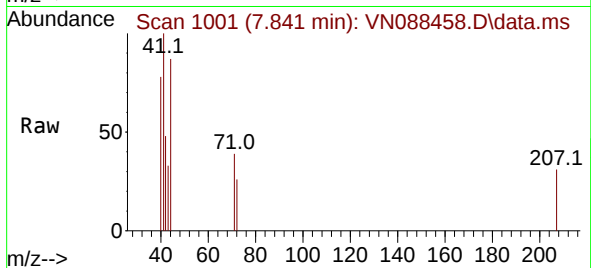
121 0.0 23.4 35.2#



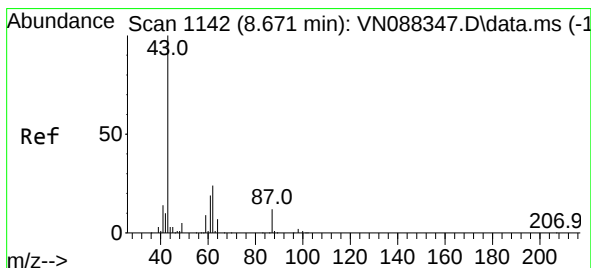
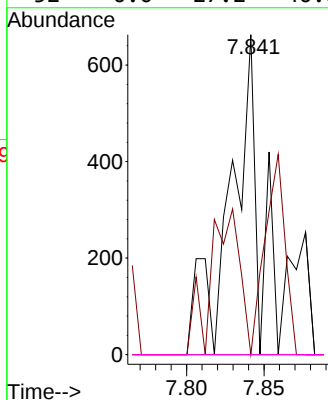
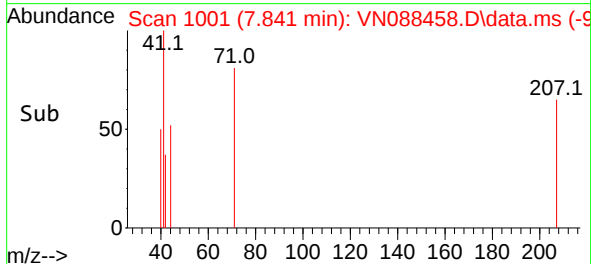


#41
Methacrylonitrile
Concen: 0.257 ug/l
RT: 7.841 min Scan# 1100
Delta R.T. 0.083 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

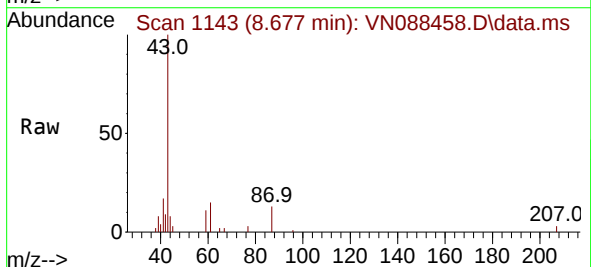
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB



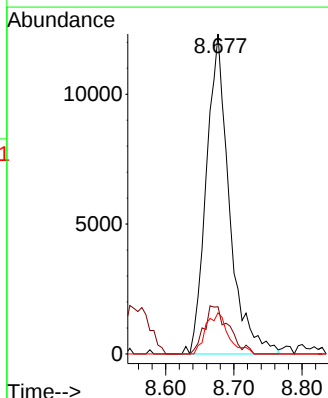
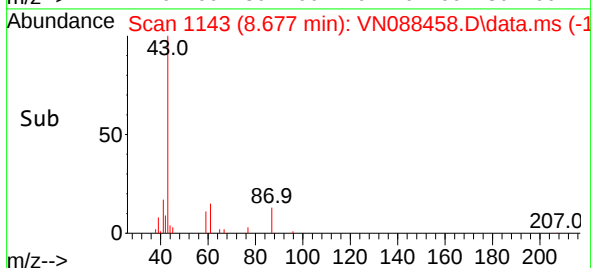
Tgt Ion: 41 Resp: 871
Ion Ratio Lower Upper
41 100
39 46.0 46.3 69.5#
67 0.0 54.7 82.1#
52 0.0 27.2 40.8#

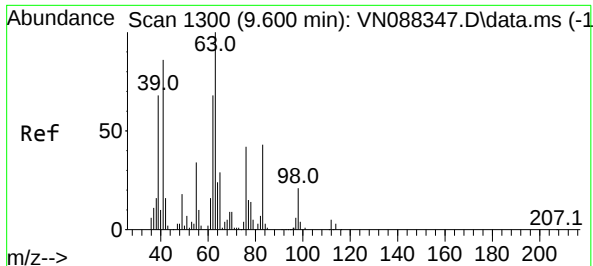


#43
Isopropyl Acetate
Concen: 2.764 ug/l
RT: 8.677 min Scan# 1143
Delta R.T. 0.006 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32



Tgt Ion: 43 Resp: 28877
Ion Ratio Lower Upper
43 100
61 16.2 18.7 28.1#
87 12.6 9.1 13.7





#45

1,2-Dichloropropane

Concen: 0.459 ug/l

RT: 9.724 min Scan# 11

Delta R.T. 0.124 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

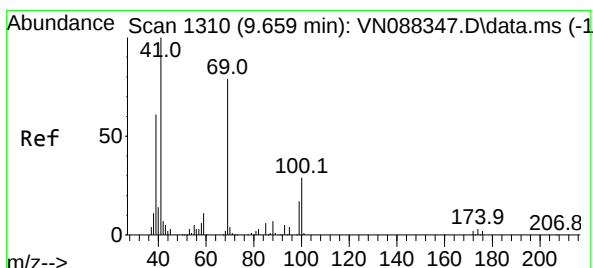
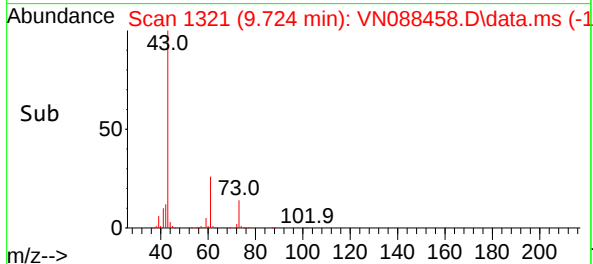
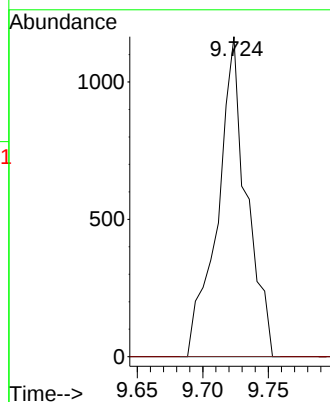
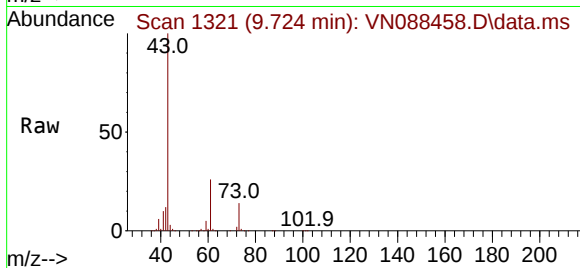
PB170809TB

Tgt Ion: 63 Resp: 1793

Ion Ratio Lower Upper

63 100

65 0.0 23.0 34.4#



#48

Methyl methacrylate

Concen: 1.018 ug/l

RT: 9.641 min Scan# 1307

Delta R.T. -0.017 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

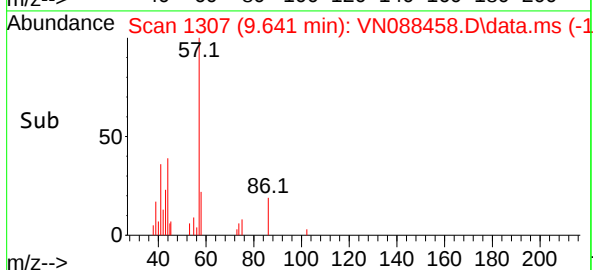
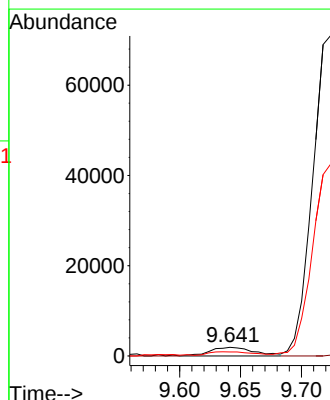
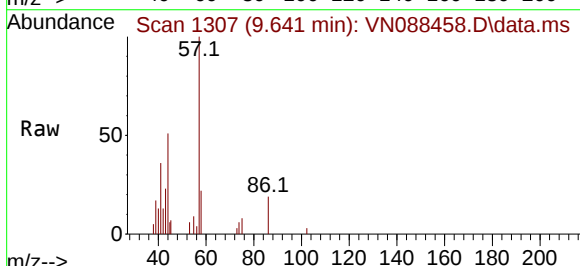
Tgt Ion: 41 Resp: 4854

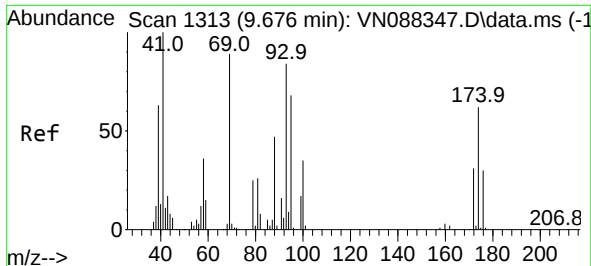
Ion Ratio Lower Upper

41 100

69 0.0 62.4 93.6#

39 0.0 52.6 79.0#

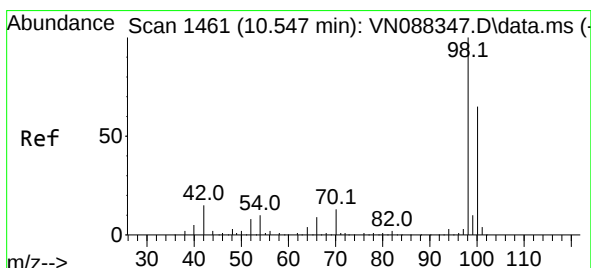
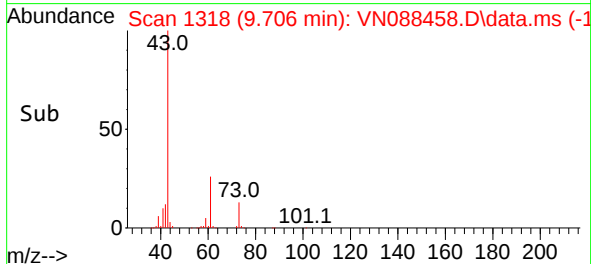
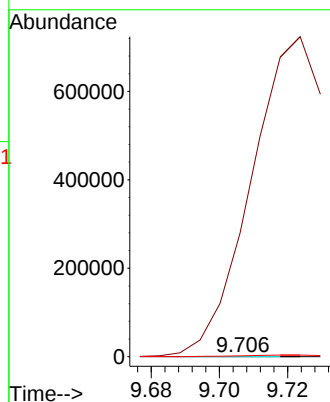
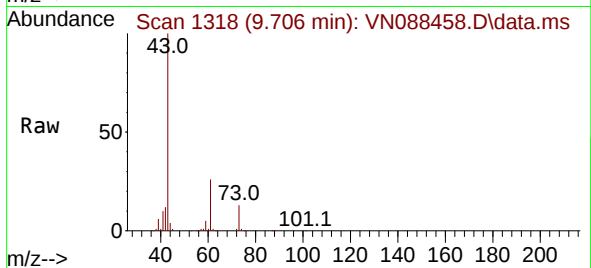




#49
1,4-Dioxane
Concen: 1.897 ug/l
RT: 9.706 min Scan# 11
Delta R.T. 0.030 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

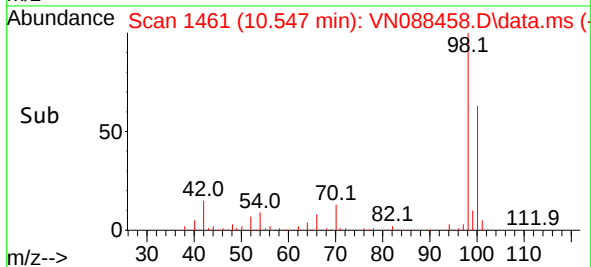
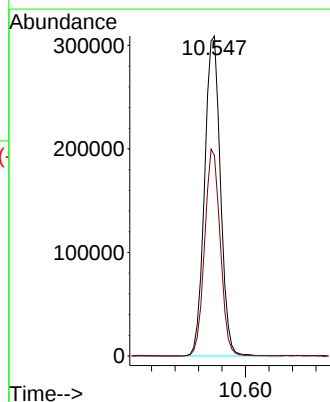
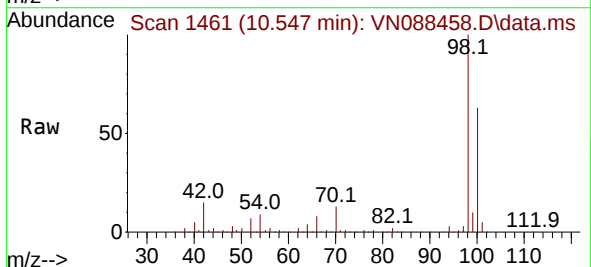
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB

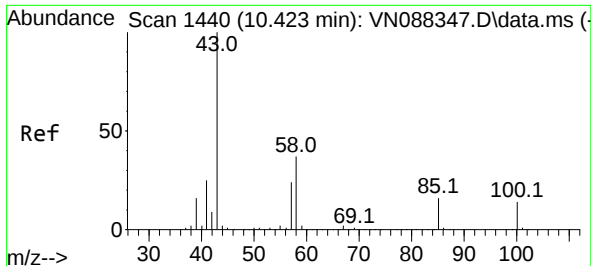
Tgt Ion: 88 Resp: 115
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 0.0 62.0 93.0#



#50
Toluene-d8
Concen: 45.978 ug/l
RT: 10.547 min Scan# 1461
Delta R.T. 0.000 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 98 Resp: 576429
Ion Ratio Lower Upper
98 100
100 63.7 52.2 78.2

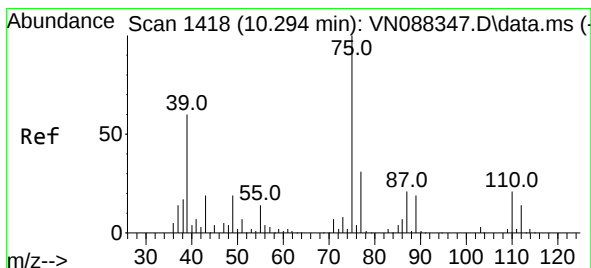
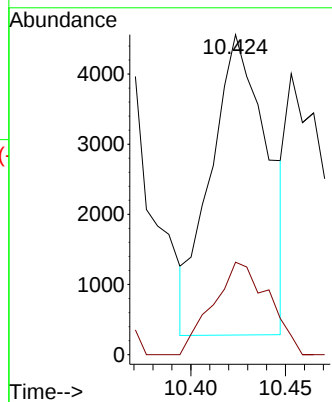
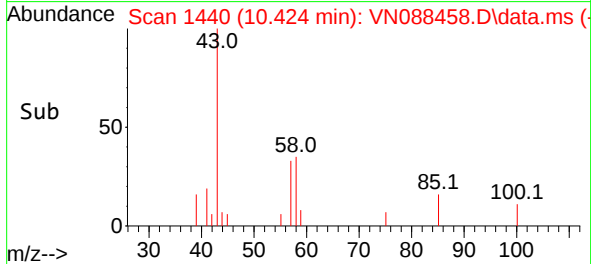
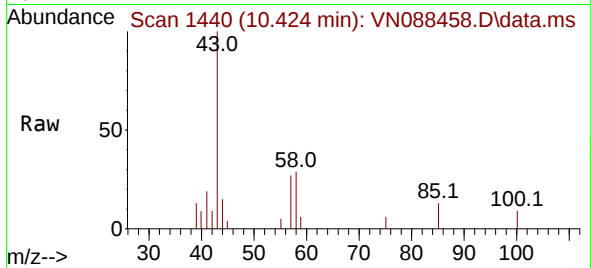




#51
4-Methyl-2-Pentanone
Concen: 1.443 ug/l
RT: 10.424 min Scan# 1440
Delta R.T. 0.000 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

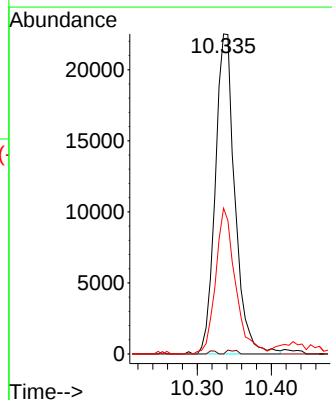
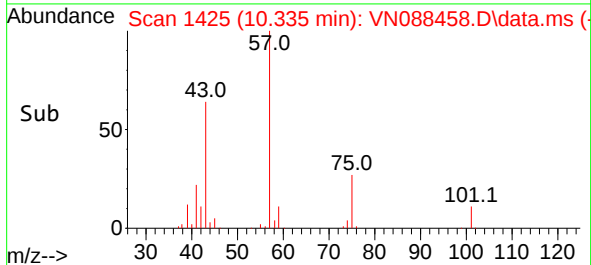
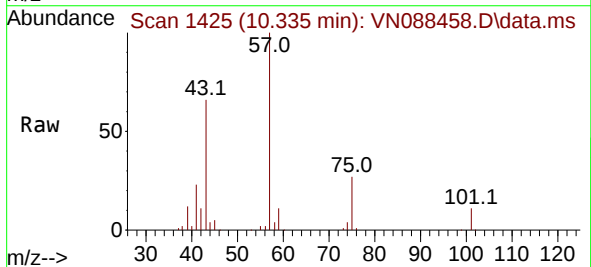
Instrument :
MSVOA_N
ClientSampleId :
PB170809TB

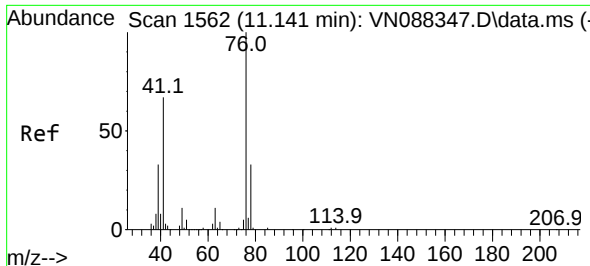
Tgt Ion: 43 Resp: 8883
Ion Ratio Lower Upper
43 100
58 30.4 29.1 43.7



#54
cis-1,3-Dichloropropene
Concen: 6.741 ug/l
RT: 10.335 min Scan# 1425
Delta R.T. 0.041 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 75 Resp: 41434
Ion Ratio Lower Upper
75 100
77 0.0 24.5 36.7#
39 45.6 48.3 72.5#





#57

1,3-Dichloropropane

Concen: 0.577 ug/l

RT: 11.177 min Scan# 1

Delta R.T. 0.035 min

Lab File: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

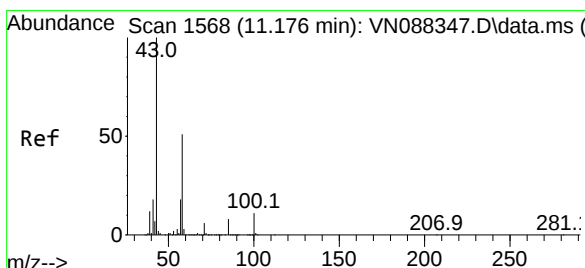
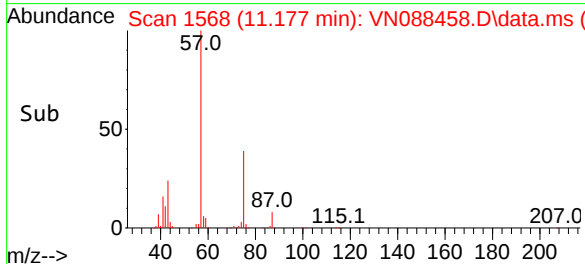
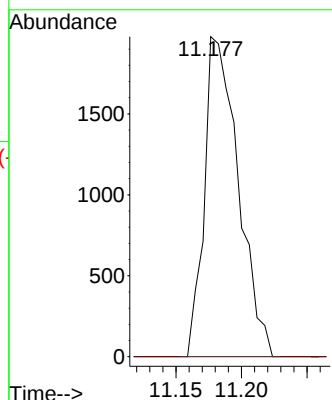
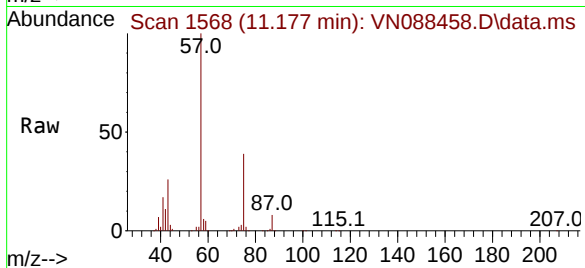
PB170809TB

Tgt Ion: 76 Resp: 3551

Ion Ratio Lower Upper

76 100

78 0.0 26.2 39.4#



#59

2-Hexanone

Concen: 18.167 ug/l

RT: 11.188 min Scan# 1570

Delta R.T. 0.012 min

Lab File: VN088458.D

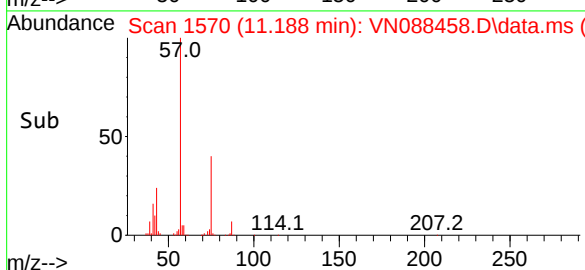
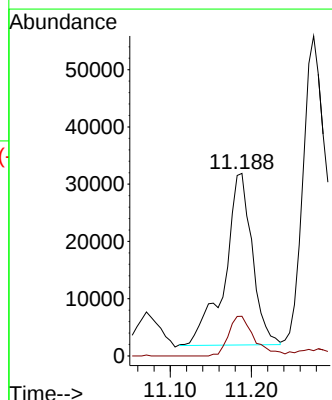
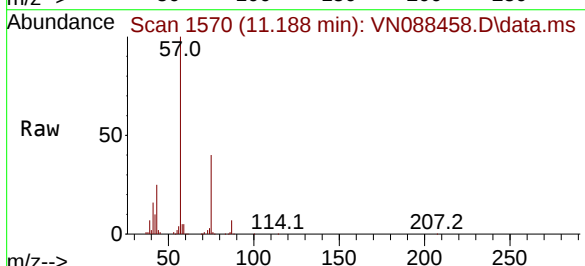
Acq: 04 Dec 2025 19:32

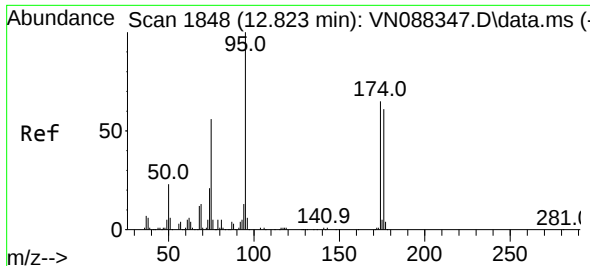
Tgt Ion: 43 Resp: 70473

Ion Ratio Lower Upper

43 100

58 21.5 25.3 75.9#

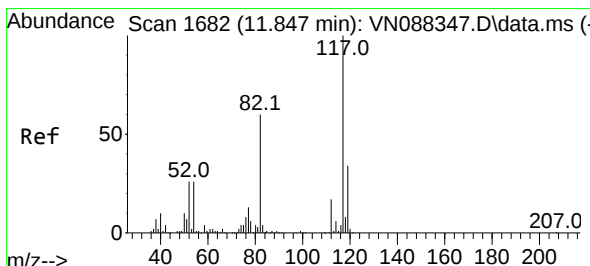
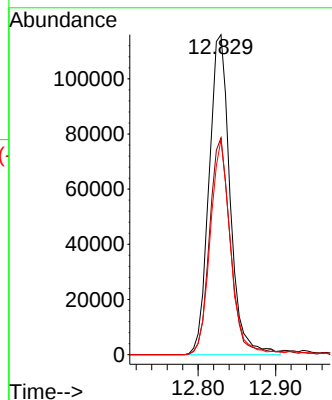
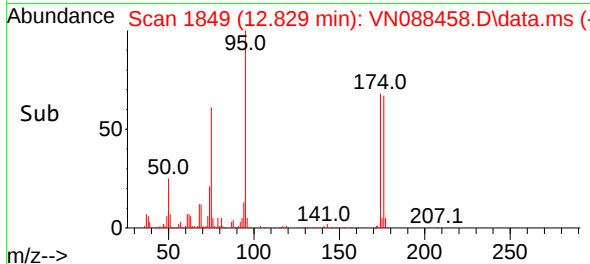
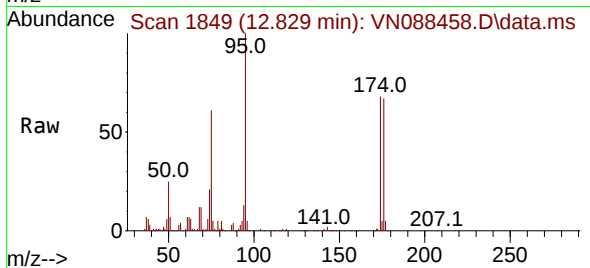




#62
4-Bromofluorobenzene
Concen: 50.874 ug/l
RT: 12.829 min Scan# 1184
Delta R.T. 0.006 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

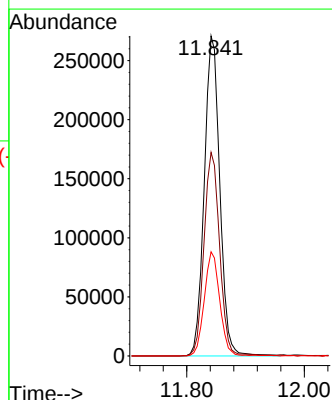
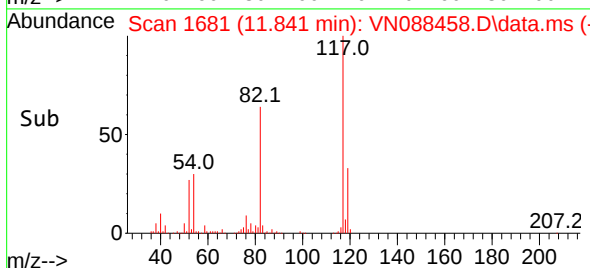
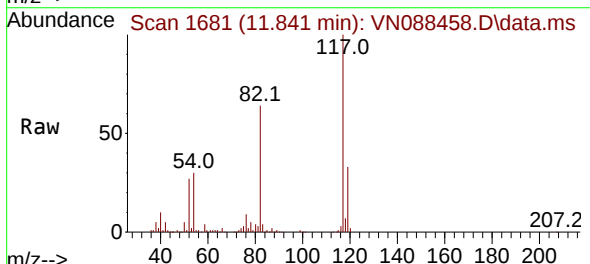
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MSVOA_N
ClientSampleId :
PB170809TB

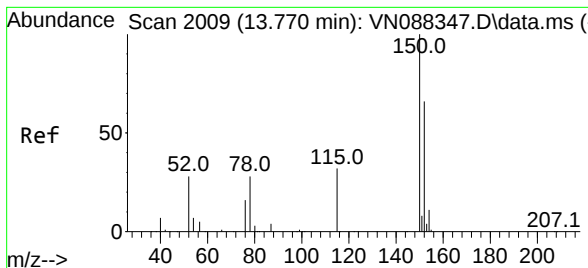
Tgt Ion: 95 Resp: 218842
Ion Ratio Lower Upper
95 100
174 67.4 0.0 139.0
176 64.9 0.0 132.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.841 min Scan# 1681
Delta R.T. -0.006 min
Lab File: VN088458.D
Acq: 04 Dec 2025 19:32

Tgt Ion: 117 Resp: 496047
Ion Ratio Lower Upper
117 100
82 63.6 47.8 71.8
119 32.6 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: VN088458.D

Acq: 04 Dec 2025 19:32

Instrument :

MSVOA_N

ClientSampleId :

PB170809TB

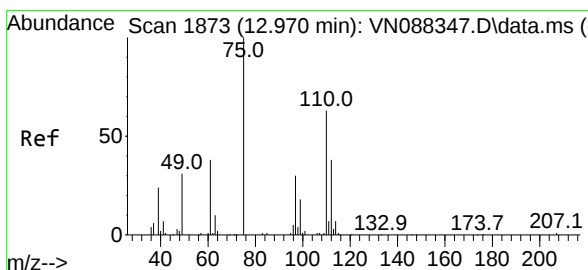
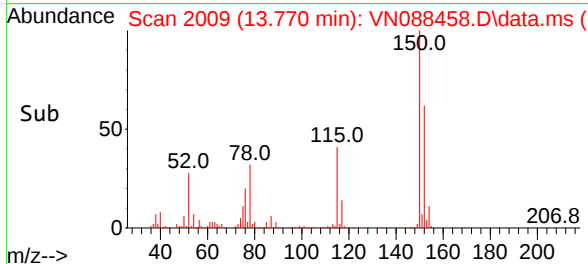
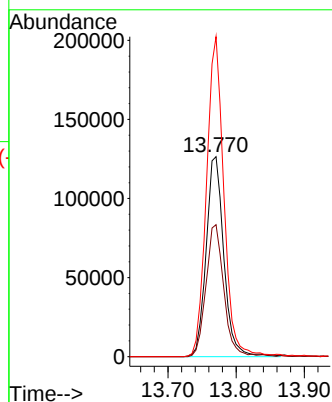
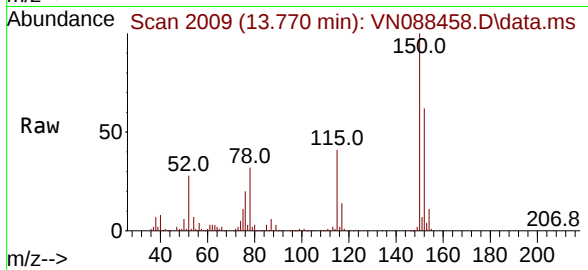
Tgt Ion:152 Resp: 228646

Ion Ratio Lower Upper

152 100

115 66.7 33.0 98.9

150 156.5 0.0 349.0



#76

1,2,3-Trichloropropane

Concen: 24.643 ug/l

RT: 12.829 min Scan# 1849

Delta R.T. -0.141 min

Lab File: VN088458.D

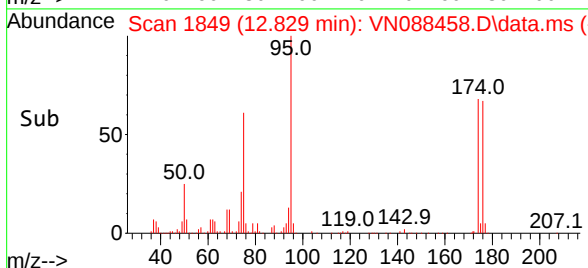
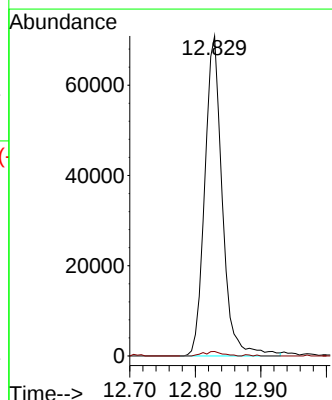
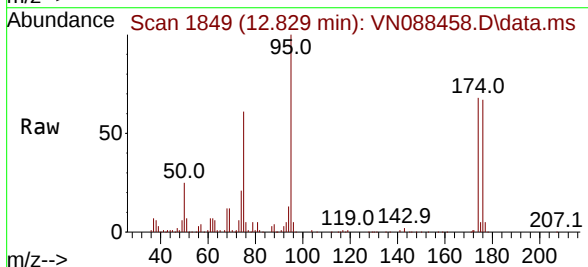
Acq: 04 Dec 2025 19:32

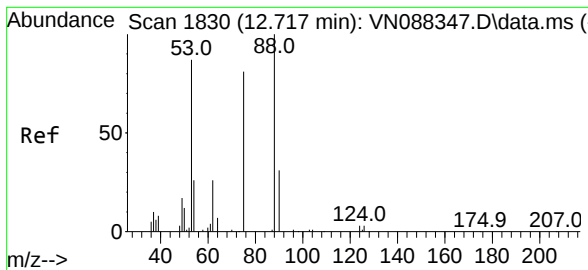
Tgt Ion: 75 Resp: 131968

Ion Ratio Lower Upper

75 100

77 1.5 87.2 261.6#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 69.909 ug/l
 RT: 12.829 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN088458.D
 Acq: 04 Dec 2025 19:32

Instrument :
 MSVOA_N
 ClientSampleId :
 PB170809TB

Tgt Ion: 75 Resp: 131968
 Ion Ratio Lower Upper
 75 100
 53 0.3 92.2 138.4#
 89 0.3 0.0 0.0#

