

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN112918\
 Data File : VN052589.D
 Acq On : 30 Nov 2018 2:50
 Operator : MD\SY
 Sample : J6144-04DL 20X
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 41 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4DL

Quant Time: Nov 30 04:04:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N112618W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Nov 27 00:48:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	170498	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	945200	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	773314	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	338308	29.12	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	97.07%
60) 4-Bromofluorobenzene	12.40	95	304653	25.77	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	85.90%
63) Toluene-d8	10.09	98	1093215	30.49	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	101.63%

Target Compounds

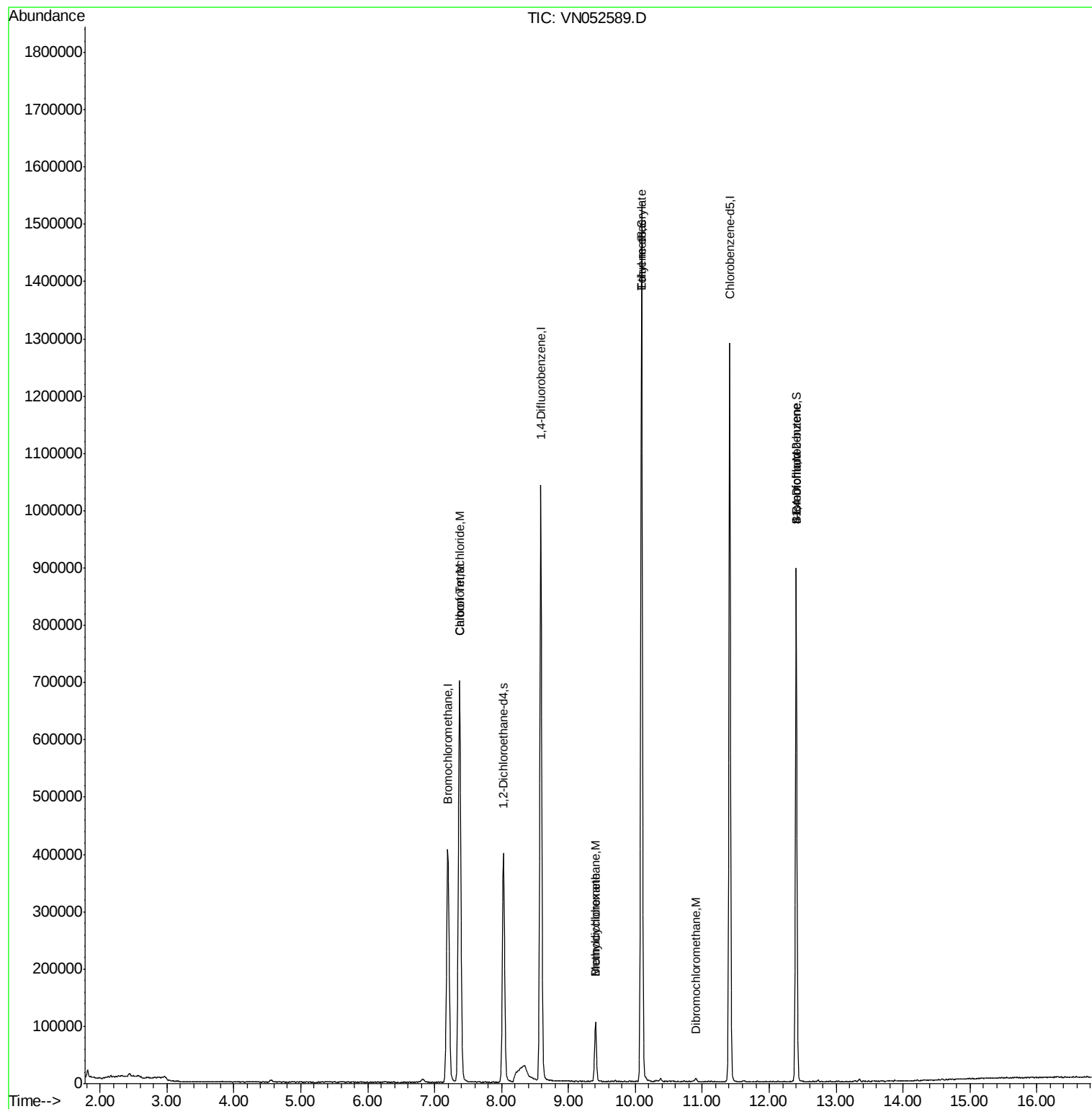
					Ovalue
25) Chloroform	7.37	83	764225	39.664	ug/l 100
33) Carbon Tetrachloride	7.37	117	4342	0.330	ug/l 90
38) Methylcyclohexane	9.40	83	73851	4.133	ug/l # 17
41) Bromodichloromethane	9.40	83	73851	5.317	ug/l 98
51) Ethyl methacrylate	10.09	69	3039	0.272	ug/l 81
53) Dibromochloromethane	10.90	129	3483	0.355	ug/l 94
56) Bromoform	12.40	173	2097	0.327	ug/l # 1
77) t-1,4-Dichloro-2-butene	12.40	75	144661	55.477	ug/l # 11

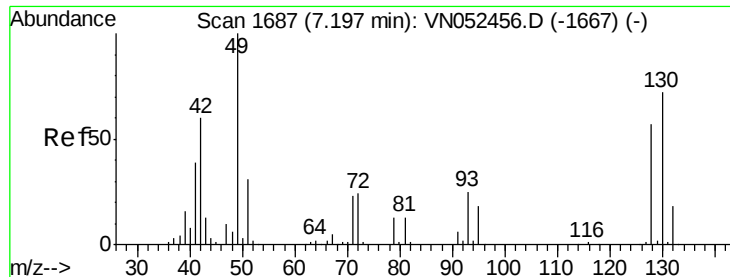
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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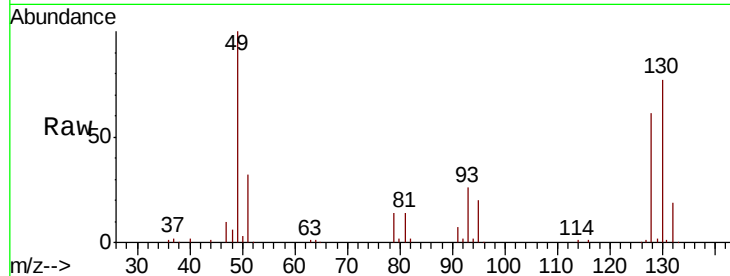




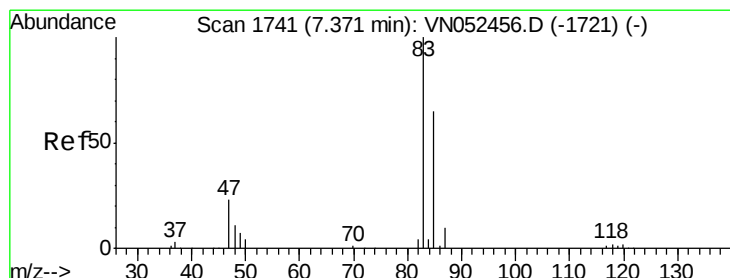
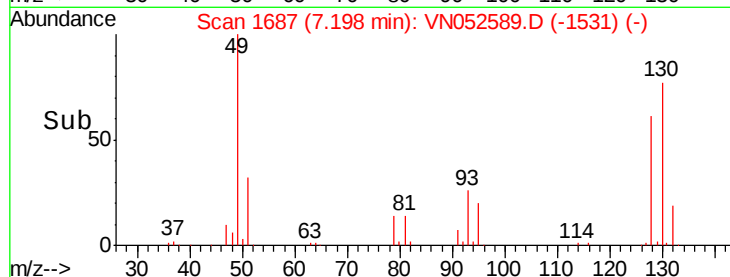
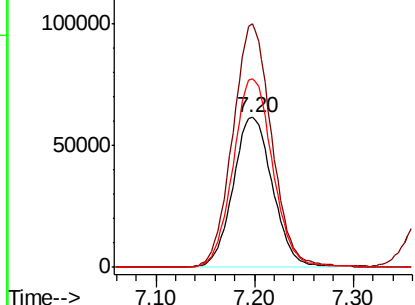
#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.20 min Scan# 1687
Delta R.T. 0.00 min
Lab File: VN052589.D
Acq: 30 Nov 2018 2:50

Instrument :
MSVOA_N
ClientSampled :
14B-4DL

Tot Ion:128 Resp: 170498
Ion Ratio Lower Upper
128 100
49 160.3 0.0 431.8
130 126.0 0.0 317.0

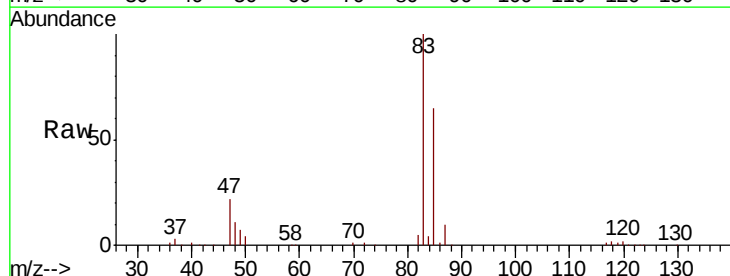


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V

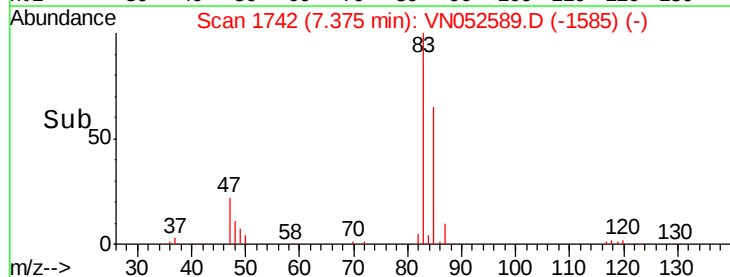
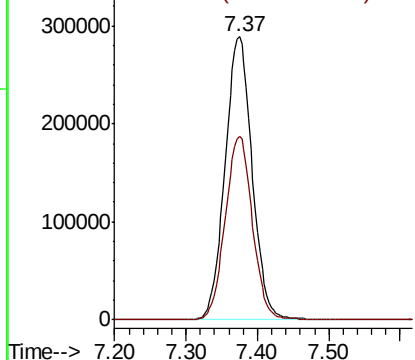


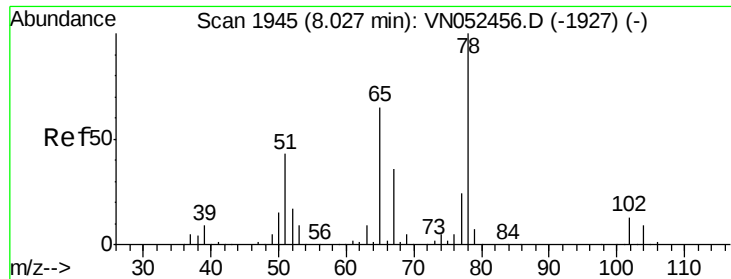
#25
Chloroform
Concen: 39.664 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN052589.D
Acq: 30 Nov 2018 2:50

Tgt Ion: 83 Resp: 764225
Ion Ratio Lower Upper
83 100
85 64.9 51.7 77.5



Abundance Ion 83.00 (82.70 to 83.70): V
Ion 85.00 (84.70 to 85.70): V





#27

1,2-Dichloroethane-d4

Concen: Below ug/l

RT: 8.03 min Scan# 1945

Delta R.T. 0.00 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

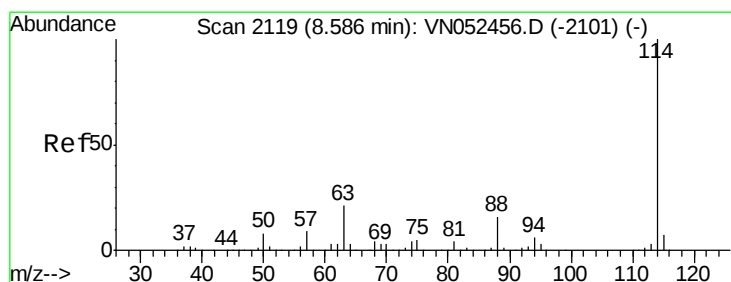
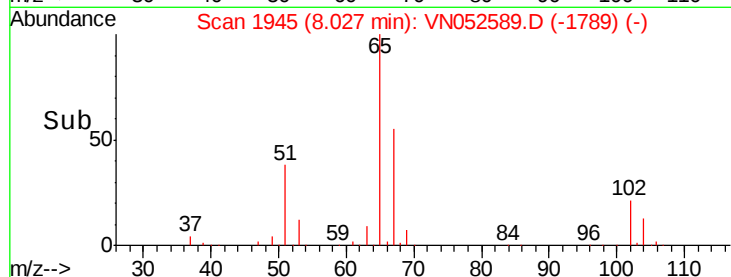
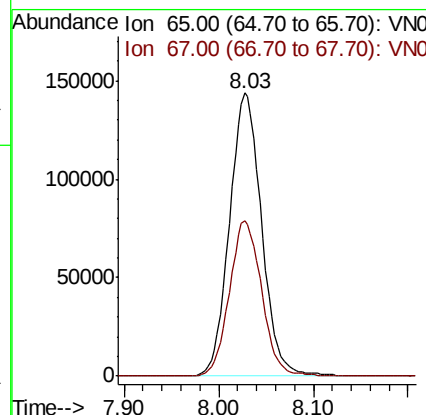
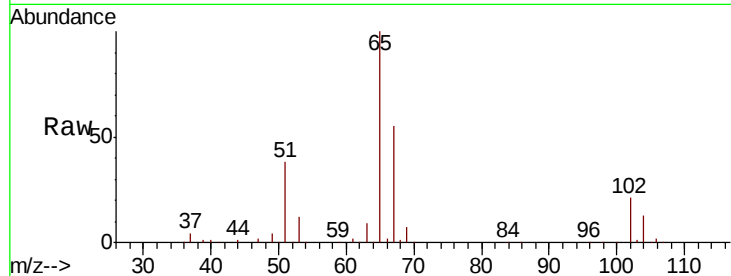
14B-4DL

Tot Ion: 65 Resp: 338308

Ion Ratio Lower Upper

65 100

67 55.3 44.6 66.8



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 8.59 min Scan# 2119

Delta R.T. 0.00 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

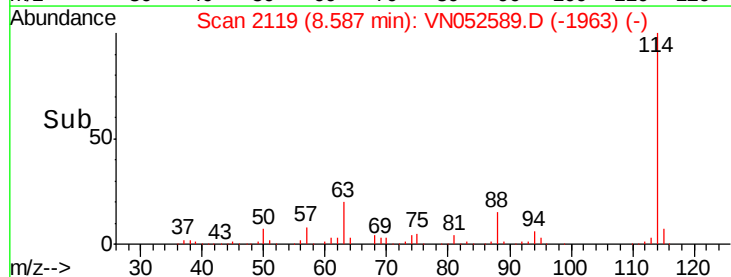
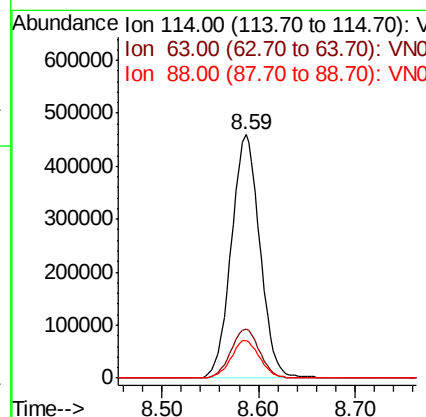
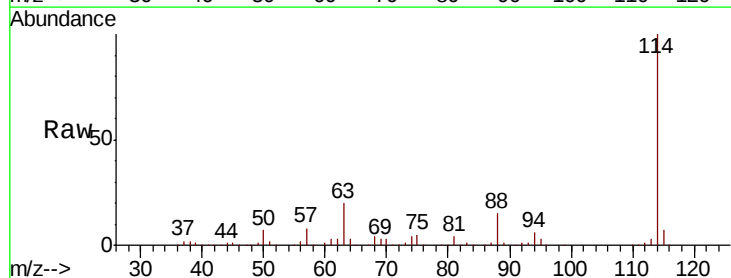
Tgt Ion: 114 Resp: 945200

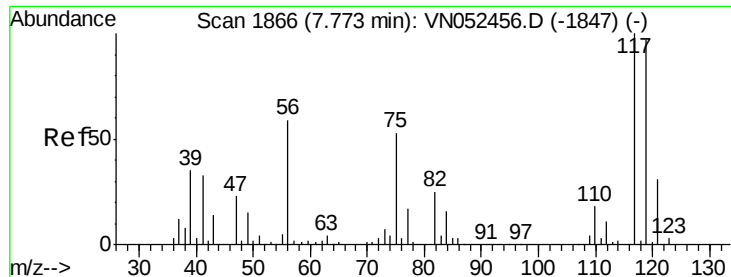
Ion Ratio Lower Upper

114 100

63 20.3 16.9 25.3

88 15.4 12.8 19.2





#33

Carbon Tetrachloride

Concen: 0.330 ug/l

RT: 7.37 min Scan# 1741

Delta R.T. -0.40 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

14B-4DL

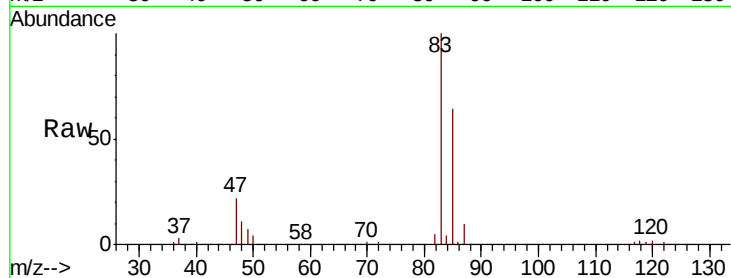
Tot Ion:117 Resp: 4342

Ion Ratio Lower Upper

117 100

119 105.9 77.3 115.9

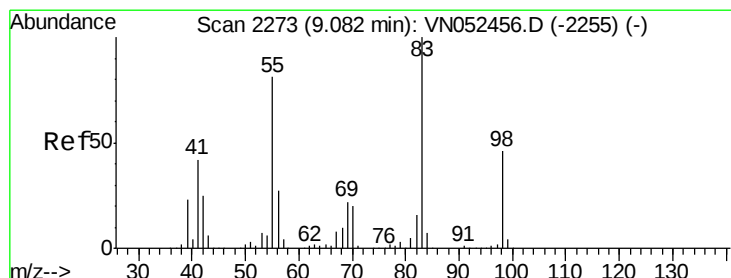
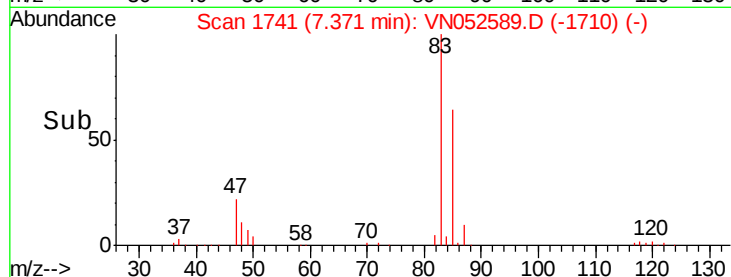
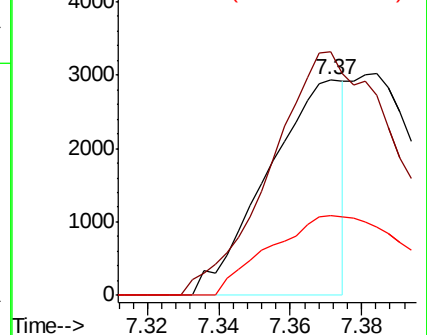
121 36.8 24.9 37.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#38

Methylcyclohexane

Concen: 4.133 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. 0.32 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

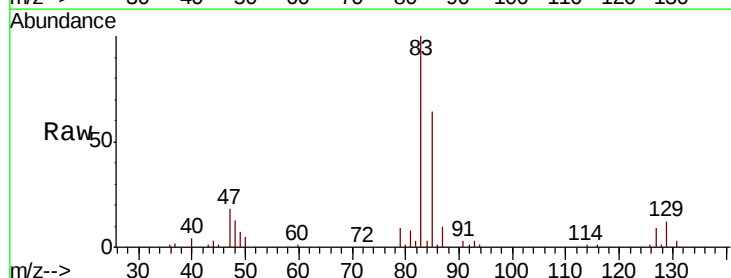
Tgt Ion: 83 Resp: 73851

Ion Ratio Lower Upper

83 100

55 0.0 39.8 119.4#

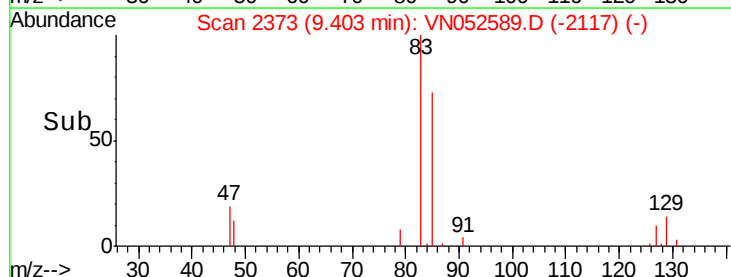
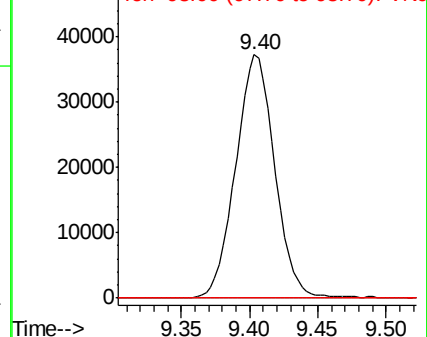
98 0.0 22.9 68.5#

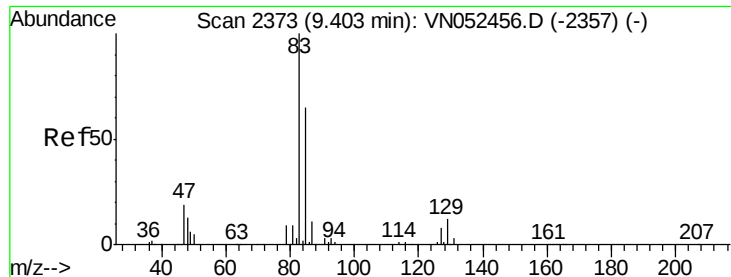


Abundance Ion 83.00 (82.70 to 83.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 98.00 (97.70 to 98.70): VNO

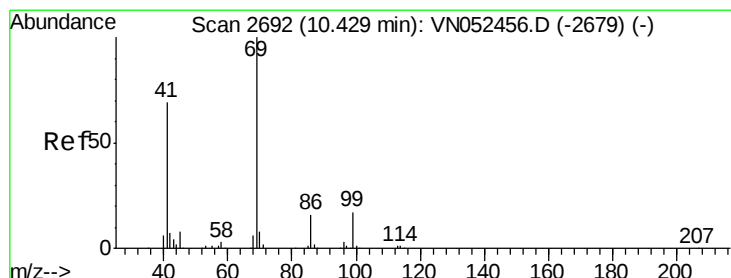
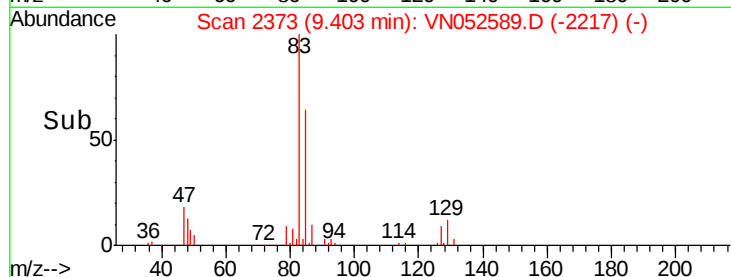
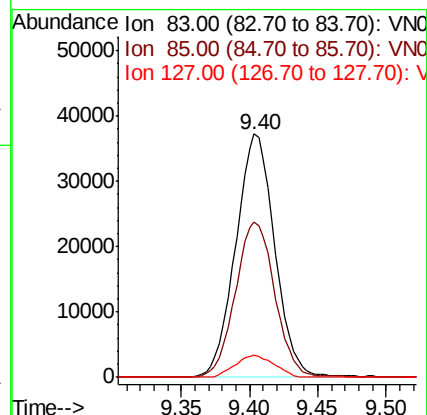
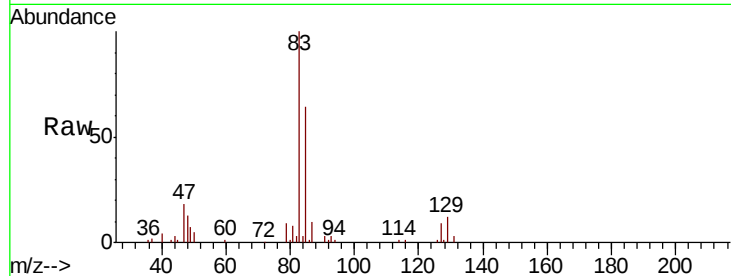




#41
 Bromodichloromethane
 Concen: 5.317 ug/l
 RT: 9.40 min Scan# 2373
 Delta R.T. 0.00 min
 Lab File: VN052589.D
 Acq: 30 Nov 2018 2:50

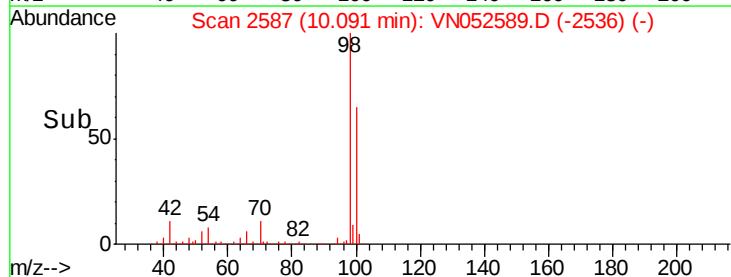
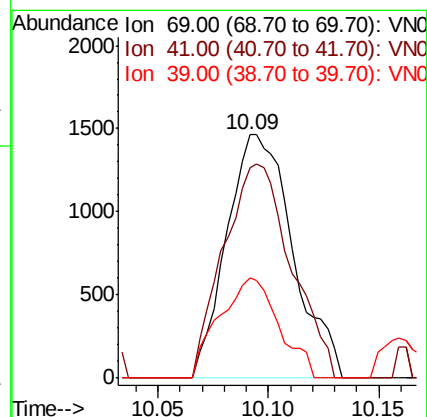
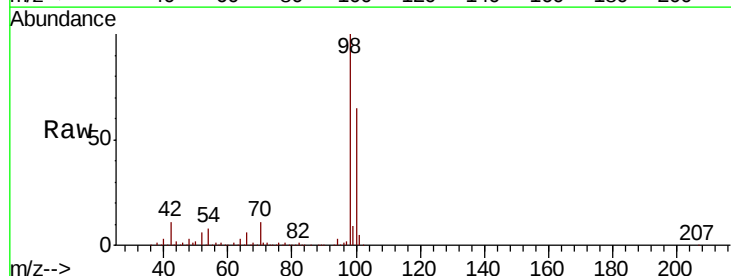
Instrument :
 MSVOA_N
 ClientSampleId :
 14B-4DL

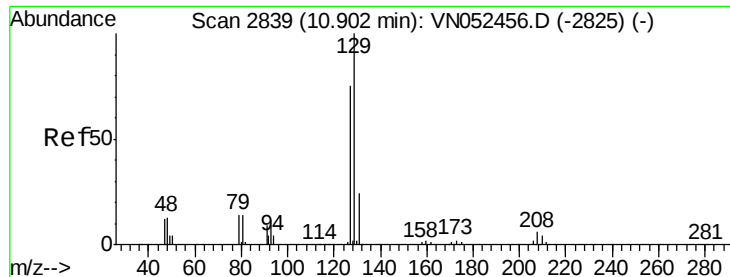
Tot Ion	83	Resp	73851
Ion	Ratio	Lower	Upper
83	100		
85	63.6	52.4	78.6
127	8.9	6.6	9.8



#51
 Ethyl methacrylate
 Concen: 0.272 ug/l
 RT: 10.09 min Scan# 2587
 Delta R.T. -0.34 min
 Lab File: VN052589.D
 Acq: 30 Nov 2018 2:50

Tgt Ion	69	Resp	3039
Ion	Ratio	Lower	Upper
69	100		
41	86.2	34.4	103.3
39	41.0	16.4	49.2





#53

Dibromochloromethane

Concen: 0.355 ug/l

RT: 10.90 min Scan# 2840

Delta R.T. 0.00 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

Instrument :

MSVOA_N

ClientSampled :

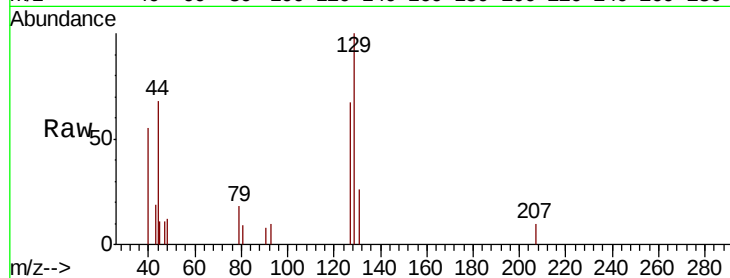
14B-4DL

Tot Ion:129 Resp: 3483

Ion Ratio Lower Upper

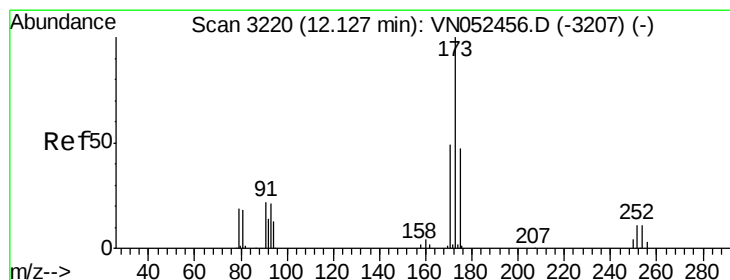
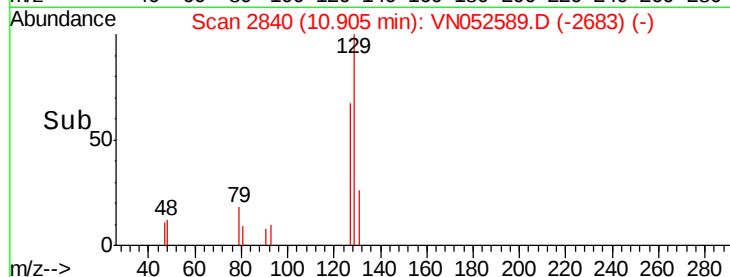
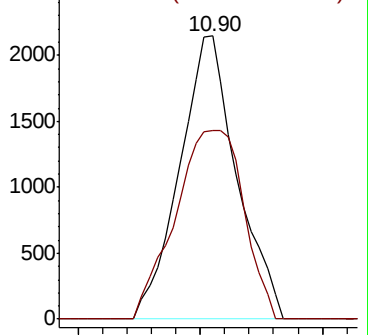
129 100

127 80.1 37.6 112.8



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#56

Bromoform

Concen: 0.327 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.27 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

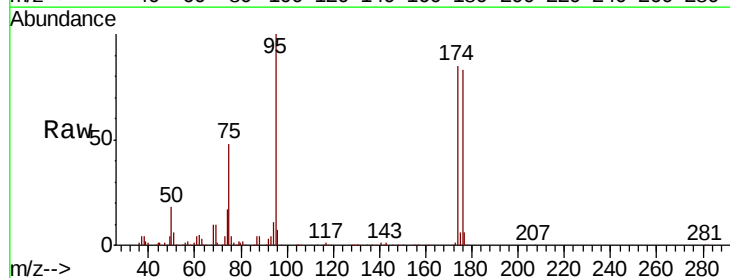
Tgt Ion:173 Resp: 2097

Ion Ratio Lower Upper

173 100

175 905.0 38.7 58.1#

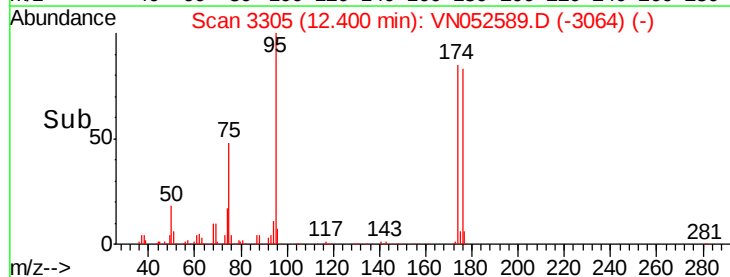
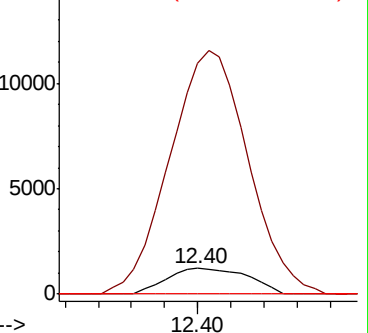
254 0.0 8.4 12.6#

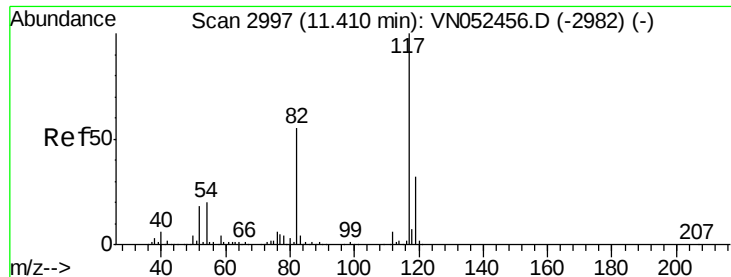


Abundance Ion 173.00 (172.70 to 173.70): V

Ion 175.00 (174.70 to 175.70): V

Ion 254.00 (253.70 to 254.70): V

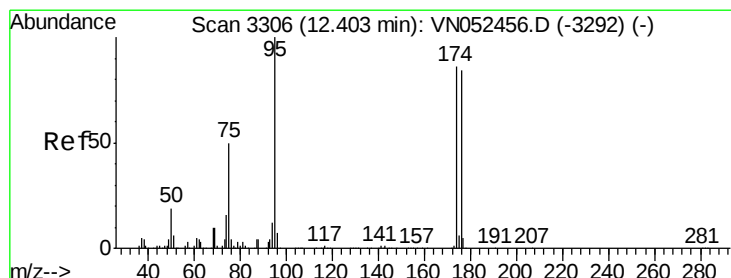
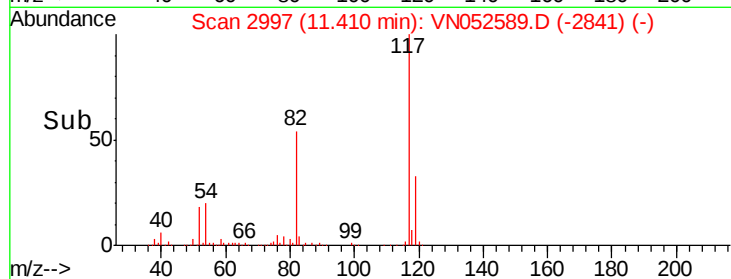
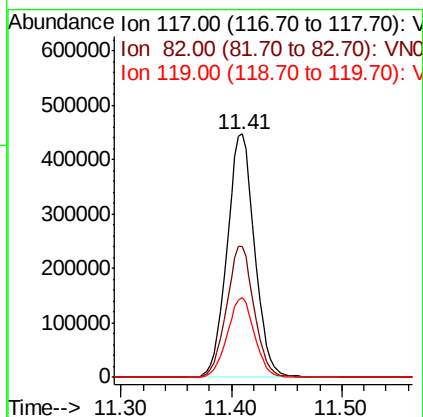
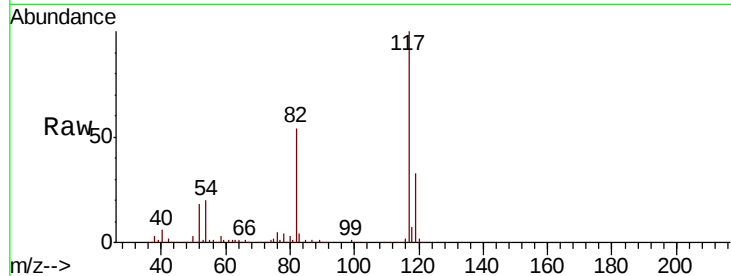




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.41 min Scan# 2997
Delta R.T. 0.00 min
Lab File: VN052589.D
Acq: 30 Nov 2018 2:50

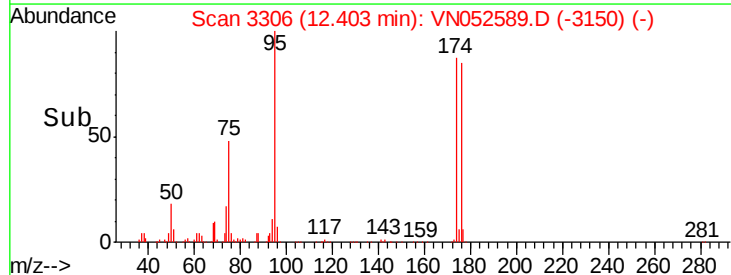
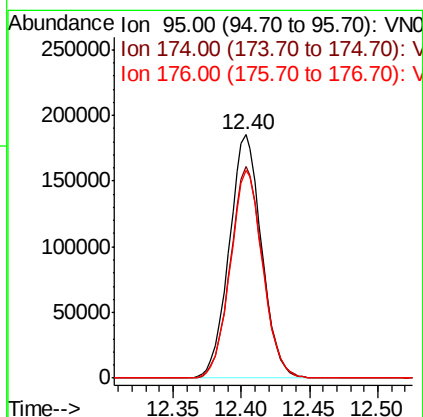
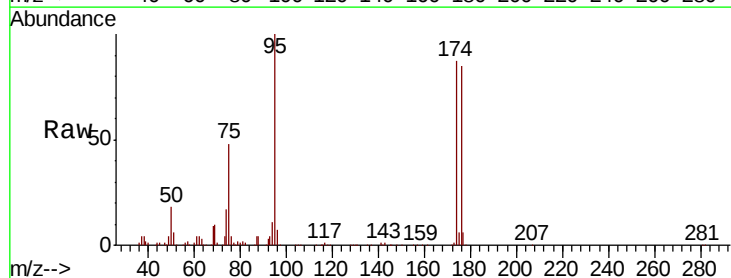
Instrument :
MSVOA_N
ClientSampled :
14B-4DL

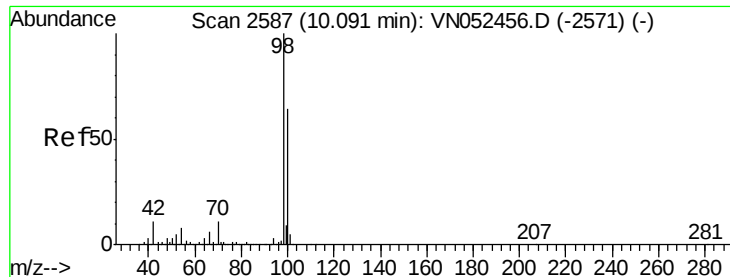
Tot Ion	Ratio	Lower	Upper
117	100		
82	54.0	44.2	66.2
119	32.4	25.4	38.2



#60
4-Bromofluorobenzene
Concen: Below ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052589.D
Acq: 30 Nov 2018 2:50

Tgt Ion	Ratio	Lower	Upper
95	100		
174	87.0	67.9	101.9
176	85.3	66.4	99.6





#63

Toluene-d8

Concen: Below ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

Instrument :

MSVOA_N

ClientSampleId :

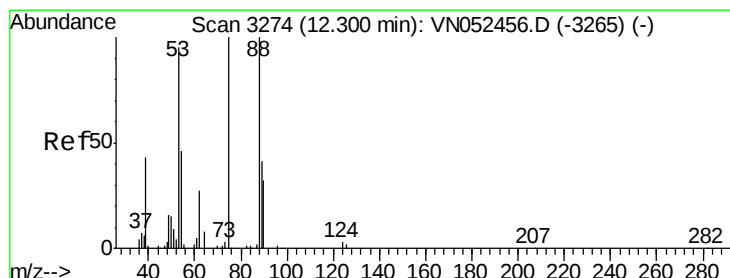
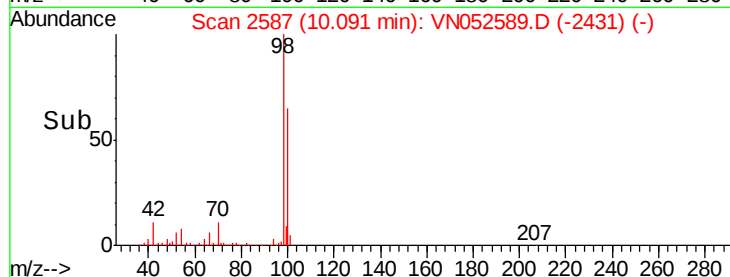
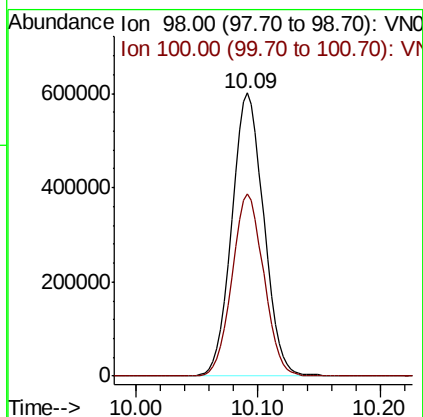
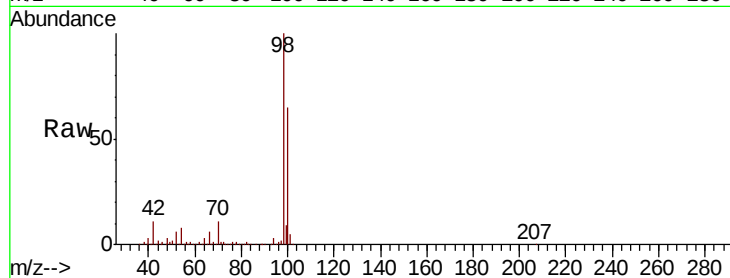
14B-4DL

Tot Ion: 98 Resp: 1093215

Ion Ratio Lower Upper

98 100

100 63.9 51.1 76.7



#77

t-1,4-Dichloro-2-butene

Concen: 55.477 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.10 min

Lab File: VN052589.D

Acq: 30 Nov 2018 2:50

Tgt Ion: 75 Resp: 144661

Ion Ratio Lower Upper

75 100

53 0.0 48.5 145.6#

89 0.0 21.7 65.1#

