

FCC RF EXPOSURE REPORT

FCC ID: 2AG7CBELL9

Project No. : 2012H015
Equipment : Wireless DoorBell
Brand Name : N/A
Test Model : Bell 9S
Series Model : MI-CW024-101W, MIC-CW024-101W, Bell12S, GNC-CW025-101, GN-CW025-101
Applicant : Hangzhou Meari Technology Co., Ltd.
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Manufacturer : Hangzhou Meari Technology Co., Ltd.
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Factory : Hangzhou Meari Technology Co., Ltd.
Address : No. 91 Chutian Road, Xixing Street, Binjiang District, Hangzhou, Zhejiang, China
Date of Receipt : Nov. 03, 2020
Dec. 22, 2020
Date of Test : Nov. 03, 2020~Dec. 28, 2020
Dec. 22, 2020~Jan. 11, 2021
Issued Date : Jan. 20, 2021
Report Version : R01
Test Sample : Engineering Sample No.: SH2020121138, SH2020121140
SH2020110266-6, SH2020110266, SH2020110266-4, SH2020110266-6
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Maker Qi

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Certificate # 5123.03

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REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	The hardware of this device are identical to the build-in antenna type of the implementation in FCC ID: 2AG7CBELL5. The product change items are changed the capacitance and resistor positions of the module. The data from that application has been verified through appropriate spot checks to demonstrate compliance for this device.	Jan. 18, 2021
R01	Add the parameter change of capacitance: Original: 1*50V 470uF + 2* 3.3V 2.7F; New: 1*50V 470uF + 2* 3.3V 10F	Jan. 20, 2021

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

For 2.4G:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	3

For 915MHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	FPC	N/A	2

Note:

The antenna gain is provided by the manufacturer.

2. TEST RESULTS

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3	1.9953	25	316.2278	0.125525	1	Complies

For 915MHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	-5.12	0.3076	0.000097	0.61	Complies

For the max simultaneous transmission MPE:

2.4G+915MHz

Power Density (S) (mW/cm ²)	Power Density (S) (mW/cm ²)	Total	Limit of Power Density (S) (mW/cm ²)	Test Result
2.4GHz	915MHz			
0.125525	0.000097	0.0158	1	Complies

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

For 915MHz:

1. Limit of Power Density=f/1500.

f= frequency in MHz. * = Plane-wave equivalent power density.

2. Total= $(0.125525 / 1)^2 + (0.000097 / 0.61)^2 = 0.0158$

3. For d=3m

EIRP(dBm)=E(dBμV / m)-95.2

EIRP = output power + G (Ant Gain)

EIRP=92.08-95.2=-3.12

Output power=-3.12-2=-5.12

End of Test Report