

FCC RF EXPOSURE REPORT

FCC ID: 2AO2D-MJJGYY02FM

Project No. : 1803C261
Equipment : Mi Ultra-Short Range Laser Projector
Model : MJJGYY02FM
Series Model : MJJGYYXXFM (X=0-9, A-Z,- or blank,
indicates for different market purposes)
Applicant : Fengmi(Beijing)Technology Co.,Ltd
Address : 301, 3F, Building 3 No. 10, Shunyi District
Renhe Town Barracks South Street, Beijing,
China

According: : FCC Guidelines for Human Exposure IEEE
C95.1 & FCC Part 2.1091

B T L I N C .

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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 BT,LE

Ant.	Brand	Model Name	Antenna Type	Connector	Gain(dBi)
1	N/A	N/A	Internal	N/A	1.5

For 2.4G WIFI

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	N/A	N/A	Internal	N/A	1.5
2	N/A	N/A	Internal	N/A	1.5

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and receivers (2T2R).

For 5G WIFI

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

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and receivers (2T2R).

TEST RESULTS

EUT :	Mi Ultra-Short Range Laser Projector	Model Name :	MJJGYY02FM
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		

2.4G WIFI

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	1.4125	24.46	279.2544	0.07851459	1	Complies

5G Band UNII-1

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	16.87	48.6407	0.01534442	1	Complies

5G Band UNII-2A

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	16.77	47.5335	0.01499513	1	Complies

5G Band UNII-2C

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	16.82	48.0839	0.01516877	1	Complies

5G Band UNII-3

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	16.97	49.7737	0.01570183	1	Complies

BT

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	1.4125	7.39	5.4828	0.00154152	1	Complies

LE

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.5	1.4125	5.56	3.5975	0.00101146	1	Complies

The BT +2.4G wifi or LE +2.4G wifi or BT+5G wifi or LE+5G wifi can transmit at the same time.
The Worst Case is below:

For BT+ 2.4G simultaneous transmission MPE:

$$0.07851459/1+0.00154152/1=0.08<1$$

Note: the calculated distance is 20 cm.