

## RF Exposure Report

**FCC ID: 2BFMV-S6-2**

The EUT is a Projector in the 2402-2480MHz、2412-2462MHz and 5180-5240MHz frequency band.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in 1.1307(b)

### (A) Limits for Occupational / Controlled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-3.0	614	1.63	(100)*	6
3.0-30	1842 / f	4.89 / f	(900 / f)*	6
30-300	61.4	0.163	1.0	6
300-1500			f/300	6
1500-100,000			5	6

### (B) Limits for General Population / Uncontrolled Exposure

Frequency Range (MHz)	Electric Field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/ cm <sup>2</sup> )	Averaging Time  E  <sup>2</sup> , H  <sup>2</sup> or S (minutes)
0.3-1.34	614	1.63	(100)*	30
1.34-30	824/f	2.19/f	(180/f)*	30
30-300	27.5	0.073	0.2	30
300-1500			f/1500	30
1500-100,000			1.0	30

Note: f = frequency in MHz

### MPE calculation method

Calculation Method of RF Safety Distance:

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

S: power density mW/ cm<sup>2</sup>;

P: power input to the antenna in mW;

g: numeric gain of antenna;

r: distance to centre of radiation in cm

### Unit dbuv/m@3m to mW calculation method

$$E = \text{EIRP} - 20\log(d) + 104.8$$

E: is the electric field strength in dBuv/m;

EIRP: is the equivalent isotropically radiated power in dBm;

d: is the specified measurement distance in m

## Calculated result

Mode	Max. Peak output power (dBm)	Max. Peak output power (mW)	Antenna Gain (numeric)	Power Density (S) (mW/ cm <sup>2</sup> )	Limit of Power Density (S) (mW/ cm <sup>2</sup> )
BT	-11.24	0.075	1.318	0.000019	1
802.11b	9.145	8.212	1.713	0.002800	1
802.11g	10.261	10.619	1.713	0.003621	1
802.11n20	11.724	14.873	1.713	0.005071	1
802.11n40	12.714	18.681	1.713	0.006369	1
802.11a	8.25	6.683	1.633	0.002172	1
5G Wi-Fi 802.11 n20	9.26	8.433	1.633	0.002741	1
5G Wi-Fi 802.11 n40	8.58	7.211	1.633	0.002343	1
5G Wi-Fi 802.11 ac20	8.37	6.871	1.633	0.002233	1
5G Wi-Fi 802.11 ac40	8.57	7.194	1.633	0.002338	1
5G Wi-Fi 802.11 ac80	8.44	6.982	1.633	0.002269	1

### For BT mode

-- The max. field strength of fundamental frequency is 85.16 dBuV/m.

$EIRP[dBm] = E[dB\mu V/m] - 95.2 = 85.16 - 95.2 = -10.04dBm,$

conducted power =  $EIRP - ANT \text{ gain} = -10.04 - (1.2) = -11.24dBm(0.075mW).$

Note1: the antenna gain is 1.2dBi for BT; 2.34dBi for 2.4G WIFI;2.13dBi for 5G WIFI.

Note2: Calculated distance is 20cm, which is declared by the manufacture.