



FCC RF EXPOSURE REPORT

Applicant : Beijing Xiaomi Electronics Co.,Ltd
Address : Room 707,7F,Building 5,No 58,Jinghai Wulu Road,
Beijing economic and Technological Development
Zone,100176 Beijing City,China
Equipment : Mi TV Stick
Model No. : MDZ-24-AB
Trade Name : MI
FCC ID. : 2AIMRMITVMDZ24AB

I HEREBY CERTIFY THAT :

The sample was received on Jun. 10, 2021 and the testing was completed on Jul. 02, 2021 at CerpPASS Technology Corp. The test result refers exclusively to the test presented test model / sample. Without written approval of CerpPASS Technology Corp., the test report shall not be reproduced except in full.

Approved by:

Leevin Li /Supervisor



Device category	<input type="checkbox"/> Portable (<20cm separation) <input checked="" type="checkbox"/> Mobile (>20cm separation)
Exposure classification	<input type="checkbox"/> Occupational/Controlled exposure (S = 5mW/cm ²) <input checked="" type="checkbox"/> General Population/Uncontrolled exposure (S=1mW/cm ²)
Antenna diversity	<input checked="" type="checkbox"/> Single antenna <input type="checkbox"/> Multiple antennas <input type="checkbox"/> Tx diversity <input type="checkbox"/> Rx diversity <input type="checkbox"/> Tx/Rx diversity
Evaluation applied	<input checked="" type="checkbox"/> MPE Evaluation* <input type="checkbox"/> SAR Evaluation <input type="checkbox"/> N/A

TEST RESULTS

No non-compliance noted.

Calculation

$$\text{Given } E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{3770}$$

Where E = Field strength in Volts / meter
 P = Power in Watts
 G = Numeric antenna gain
 d = Distance in meters
 S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{3770d^2}$$

Changing to units of mW and cm, using:

$$P \text{ (mW)} = P \text{ (W)} / 1000 \text{ and}$$

$$d \text{ (cm)} = d \text{ (m)} / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{3770 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2} \quad \text{Equation 1}$$

Where d = Distance in cm
 P = Power in mW
 G = Numeric antenna gain
 S = Power density in mW / cm²



Maximum Permissible Exposure

Bluetooth

Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (Numeric)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
Bluetooth EDR	2402-2480	2.04	1.599558029	3.61	2.30	20	0.000730892	1
Bluetooth LE	2402-2480	2.38	1.729816359	3.61	2.30	20	0.000790411	1

Wlan

Test Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (Numeric)	Distance (cm)	Power density (mW/cm2)	Limit (mW/cm2)
WLAN 2.4G	2412-2462	25.28	337.2873087	2.32	1.71	20	0.114512548	1
WLAN 5G	5180-5240	14.85	30.54921113	4.7	2.95	20	0.017941266	1
	5745-5825	12.08	16.14358557	4.7	2.95	20	0.009480977	1

Note:

Maximum Permissible Exposure (Co-location)

Modulation Mode	Frequency band (MHz)	Peak output power(dBm)	Peak output power(mW)	Antenna Gain (dBi)	Antenna gain (Numeric)	Distance (cm)	Power density (mW/cm2)
Bluetooth	2402-2480	2.38	1.729816359	3.61	2.30	20	0.000790411
Wlan	2412-2462	25.28	337.2873087	2.32	1.71	20	0.114512548
Co-location Total							0.115302959
Maximum Permissible Exposure Limit							1