



Maximum Permissible Exposure Evaluation

FCC ID: SJ8-M124

1. Client Information

Applicant	:	RDI Technology (Shenzhen) Co., Ltd.
Address	:	Building 1#, Yongyue Road 7#, Xintang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen. PRC.China.
Manufacturer	:	RDI Technology (Shenzhen) Co., Ltd.
Address	:	Building 1#, Yongyue Road 7#, Xintang Industrial Park, East Baishixia, Fuyong, Baoan, Shenzhen. PRC.China.

2. General Description of EUT

EUT Name	:	Wireless monitor	
Models No.	:	M124	
Model Different	:	----	
Product Description	:	Operation Frequency:	802.11b/g: 2412MHz~2462MHz
		Number of Channel:	802.11b/g:11 channels
		Antenna Gain:	4.7dBi External Antenna
Power Rating	:	Adapter:CS12N050200FUF Input: AC 100-240V, 50/60, 500mA Output:5V2A DC 3.7V by 2600mAh Rechargeable Li-ion battery*2	
Software Version	:	----	
Hardware Version	:	----	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(202209-0050-1-2#).	

MPE Calculations for WIFI

1. Antenna Gain:

External Antenna: 4.7 dBi.

2. EUT Operation Condition:

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.

3. Exposure Evaluation:

Equation from page 18 of OET Bulletin 65, Edition 97-01

$$S = (PG) / 4\pi R^2$$

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

4. Test Result:

2.4G WiFi

Mode	Conducted Power(max) (dBm)	Turn-up Power (dB)	Max tune up power (dBm) [P]	ANT Gain (dBi) [G]	Distance (cm) [R]	Power Density (mW/ cm ²) [S]	Limit of Power Density (mW/ cm ²) (S)
802.11B	17.760	17±1	18	4.7	20	0.03705	1
802.11G	17.689	17±1	18	4.7	20	0.03705	1

5. Conclusion:

As specified in Table 1B of 47 CFR 1.1310- Limits for Maximum Permissible Exposure (MPE),

Limits for General Population/ Uncontrolled Exposure

Frequency Range (MHz)	Power density (mW/ cm ²)
300-1,500	F/1500
1,500-100,000	1.0

For 2.4WIFI:2412~2462 MHz

MPE limit S: $1\text{mW}/\text{cm}^2$

The MPE is calculated as $0.03705\text{ mW}/\text{cm}^2 < \text{limit } 1\text{mW}/\text{cm}^2$. So, RF exposure limit warning or SAR test are not required.

The EUT will only be used with a separation of 20cm or greater between the antenna and nearby persons and can therefore be considered a mobile transmitter per 47 CFR2.1091 (b).

The RF Exposure Information page from the manual is included here for reference.

Note

For a more detailed features description, please refer to the RF Test Report.

6. Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1091 for the uncontrolled RF Exposure of mobile device.

-----END OF REPORT-----