

Maximum Permissible Exposure Evaluation

FCC ID: SJ8-CL794

1. Client Information

Applicant	:	RDI Technology (Shenzhen) Co., Ltd
Address	:	101 to 401, Building 1, and Building 2, No. 7 Yongyue Road, East Baishixia, Fuyong, Baoan, Shenzhen. PRC.China.
Manufacturer	:	RDI Technology (Shenzhen) Co., Ltd
Address	:	101 to 401, Building 1, and Building 2, No. 7 Yongyue Road, East Baishixia, Fuyong, Baoan, Shenzhen. PRC.China.

2. General Description of EUT

EUT Name	:	Wireless Camera	
Models No.	:	CL794	
Model Different	:	----	
Product Description	:	Operation Frequency:	802.11b/g:2412MHz~2462MHz
		Number of Channel:	802.11b/g:11 channels
		RF Output Power:	802.11b: 17.636dBm(MAX)
		Antenna Gain:	2 dBi Dipole Antenna
Power Rating	:	Adapter(GS18J090200FUF) Input: 100-240V~, 50/60Hz, 0.5A Output: DC9V2A	
Software Version	:	N/A	
Hardware Version	:	N/A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	
Remark	:	the evaluation report used the EUT(20211014-10-2#).	

MPE Calculations for WIFI

1. Antenna Gain:

Dipole Antenna:2dBi.

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	17.636	17±1	18	2	20	0.01989	1
802.11G	17.552	17±1	18	2	20	0.01989	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: 1mW/ cm²

The MPE is calculated as **0.01989 mW / cm² < limit 1mW / cm²**. 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-----