

Report No.: TB-MPE184779

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Maximum Permissible Exposure Evaluation

FCC ID: SJ8-CA544

1. Client Information

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

2. General Description of EUT

EUT Name		Wireless Camera				
Models No.	•	CA544				
Model Different		: 441				
WHITE THE PARTY OF	3	Operation Frequency:	802.11b/g:2412MHz~2462MHz			
Product		Number of Channel: 802.11b/g:11 channels				
Description		RF Output Power:	802.11b: 17.713dBm(MAX)			
		Antenna Gain:	2 dBi Dipole Antenna			
Power Rating	-	Adapter:CS6F050100FUF : Input:100-240V~50/60Hz 200mA Output: DC 5V1A				
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#).				

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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	16.794	16±1	17	2	20	0.01580	1
802.11G	17.713	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/ cm²)		
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.



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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----