

FCC ID. : TX4RC38A



Report No.: E142R-008

9. RADIO FREQUENCY EXPOSURE

9.1 RF Exposure Limit

According to the FCC rule §1.1310, the limit for General Population/Uncontrolled exposure is 1 mW/cm² for the device operating 1 500 ~ 100 000 MHz.

9.1 RF Exposure consideration

This equipment should be operated with a minimum distance of 2 cm between the radiator and front of face. This equipment should not be placed directly on the ear when the speaker is active

9.3 EUT Description

Kind of EUT	Remote Control			
Operating Frequency Band	□ Wireless	☐ Wireless Microphone: 494.000 MHz ~ 501.000 MHz		
	and 498.	and 498.200 MHz ~ 505.200 MHz		
	■ WLAN(8	■ WLAN(802.11b/g/n(HT20)): 2 412 MHz ~ 2 462 MHz		
	■ WLAN(8	■ WLAN(802.11n(HT40)): 2 422 MHz ~ 2 452 MHz		
	□ WLAN:	□ WLAN: 5 180 MHz ~ 5 320 MHz / 5 500 MHz ~ 5 700 MHz		
	□ WLAN:	□ WLAN: 5 745 MHz ~ 5 825 MHz		
	□ Bluetooth	□ Bluetooth: 2 402 MHz ~ 2 480 MHz		
	■ Zigbee:2	■ Zigbee:2 425 MHz, 2 450 MHz, 2 475 MHz		
Device Category	☐ Portable (< 20 cm separation)			
	☐ Mobile (>	☐ Mobile (> 20 cm separation)		
	■ Others			
Max. Output Power		802.11b	14.80 dBm	
		802.11g	13.97 dBm	
	WLAN	802.11n (HT20)	14.05 dBm	
		802.11n (HT40)	13.39 dBm	
	Zigbee	Antenna 0	-4.67 dBm	
		Antenna 1	-4.78 dBm	
Used Antenna	WLAN	Inserted into the main board (Chip Antenna)		
	Zigbee	Inserted into the main board (PCB Antenna)		
Used Antenna Gain	WLAN	3.3 dBi		
		Antenna0	-0.61 dBi	
	Zigbee	Antenna1	1.73 dBi	
	■ MPE		-	
Exposure Evaluation Applied	□ SAR	□ SAR		
	□ N/A	□ N/A		

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9.4 Test Result for WLAN

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is $[(Max.\ Power\ of\ channel,\ including\ tune-up\ tolerance,\ mW)/(Mim.\ test\ separation\ distance,\ mm)]\ X\ [\ \sqrt{\ f(GHz)}] < 3$ $= [30.2/20)]\ X\ \sqrt{\ 2.462} = 2.37$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.

9.5 Test Result for Zigbee

According to the procedure, KDB 447498 D01, the standalone SAR test exclusion threshold is $[(Max.\ Power\ of\ channel,\ including\ tune-up\ tolerance,\ mW)/(Mim.\ test\ separation\ distance,\ mm)]\ X\ [\ \sqrt{\ f(GHz)}] < 3$ $= [0.34/20)]\ X\ \sqrt{\ 2.425} = 0.026$

Conclusion: The SAR test exclusion threshold is less than 3, so the device meets the RF Exposure Requirement and excluded SAR Test.