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Maximum Permissible Exposure Evaluation

FCC ID: 2AW68-B07801W7

IC: 20522-B07801W7

1. General Information about EUT

1.1 Client Information

Applicant	:	Shenzhen SDMC Technology Co.,Ltd.
Address		Room 1022, Floor 10, Building A, Customs Building, No. 2, Xin'an 3rd Road, Dalang Community, Xin'an Street, Bao'an District, Shenzhen.China
Manufacturer		Shenzhen Xeme Communication Co., Ltd
Address		Room 302, Building 2, Jiuzhou Industrial Park, No.10, No.19 Road Tongguan Road, Tianliao Community, Yutang Street, Guangming District, Shenzhen. China

1.2 General Description of EUT (Equipment Under Test)

EUT Name		Bluetooth Remote Control					
Models No./HVIN		B078-01-W7					
Model Different	2	N/A	N/A				
Brand Name	:	SDMC	SDMC				
Sample ID	:	HC-C-202405-0109-01	HC-C-202405-0109-01-01				
Product Description		Operation Frequency:	BLE: 2402MHz~2480MHz				
		Antenna Gain:	2.2dBi PCBAntenna				
Power Rating		3V DC (powered by 2p	3V DC (powered by 2pcs AAA batteries)				
Software Version	:	0.0.4					
Hardware Version	:	N/A					
Remark: The above anter refer to the manufacturer's	enna spe	n information is declared by manu crifications, the laboratory shall n	Ifacturer and for more detailed features description, please ot be held responsible.				

TB-RF-074-1.0



The RF Exposure Evaluation for FCC:

SAR Test Exclusion Calculations

FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

- (1) Clause 4.3: General SAR test reduction and exclusion guidance
 - Sub clause 4.31: Standalone SAR test exclusion considerations
 - 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] $\,\leq 3.0$ for 1-g SAR

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] $\ \leq 7.5.0$ for 10-g SAR

Calculation:

Test separation: 5mm								
BLE Mode(1Mbps)								
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dBm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value		
2.402	1.22	2±1	3	1.955	0.618	3.0		
2.440	2.18	2±1	3	1.955	0.623	3.0		
2.480	2.79	2±1	3	1.955	0.628	3.0		
2.440 2.480	2.18 2.79	2±1 2±1 2±1	3	1.955 1.955 1.955	0.623	3.0 3.0		



1/F.,Building 6, Rundongsheng Industrial Zone, Longzhu, Xixiang, Bao'an District, Shenzhen, Guangdong, China Tel: +86 75526509301 Fax: +86 75526509195



The RF Exposure Evaluation for IC:

SAR Test Exclusion Calculations

IC: According to RSS-102 — Radio Frequency (RF) Exposure Compliance of Radio communication Apparatus (All Frequency Bands) Issue 5

(2) Clause 2.5.1: Exemption limits for Routine Evaluation – SAR Evaluation

SAR evaluation is required if the separation distance between the user and/or bystander and the antenna and/or radiating element of the device is less than or equal to 20 cm, except when the device operates at or below the applicable output power level (adjusted for tune-up tolerance) for the specified separation distance defined in Table 1.

Table 1: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

	Exemption Limits (mW)							
Frequency (MHz)	At separation distance of ≤5 mm	At separation distance of 10 mm	At separation distance of 15 mm	At separation distance of 20 mm	At separation distance of 25 mm			
≤300	71 mW	101 mW	132 mW	162 mW	193 mW			
450	52 mW	70 mW	88 mW	106 mW	123 mW			
835	17 mW	30 mW	42 mW	55 mW	67 mW			
1900	7 mW	10 mW	18 mW	34 mW	60 mW			
2450	4 mW	7 mW	15 mW	30 mW	52 mW			
3500	2 mW	6 mW	16 mW	32 mW	55 mW			
5800	1 mW	6 mW	15 mW	27 mW	41 mW			

Table 1: SAR evaluation — Exemption limits for routine evaluation based on frequency and separation distance

	Exemption Limits (mW)							
Frequency (MHz)	At separation distance of 30 mm	At separation distance of 35 mm	At separation distance of 40 mm	At separation distance of 45 mm	At separation distance of ≥50 mm			
≤300	223 mW	254 mW	284 mW	315 mW	345 mW			
450	141 mW	159 mW	177 mW	195 mW	213 mW			
835	80 mW	92 mW	105 mW	117 mW	130 mW			
1900	99 mW	153 mW	225 mW	316 mW	431 mW			
2450	83 mW	123 mW	173 mW	235 mW	309 mW			
3500	86 mW	124 mW	170 mW	225 mW	290 mW			
5800	56 mW	71 mW	85 mW	97 mW	106 mW			





Calculation:

BLE									
Mode	Frequency (MHz)	Conducted Output Power (dBm)	Gain (dBi)	E.I.R.P. (dBm)	Tolerance ± (dB)	Output power (Max. Turn-up Procedure) (mW)	Limit (mW)		
	2402	1.22	2.2	3.42	4±1	3.162	4		
1Mbps	2440	2.18	2.2	4.38	4±1	3.162	4		
	2480	2.79	2.2	4.99	4±1	3.162	4		

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 and the RSS-102§4 Table 4 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06, No SAR is required.

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