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Maximum Permissible Exposure Evaluation

FCC ID: 2BCN6-D9

1. General Information about EUT

1.1 Client Information

Applicant		Shen Zhen Leyifeng Technology Co.,Ltd			
Address		3/F.Buiding B,Xinzhongtai Science and Technology park,Gushuyi,Xixiang,Bao'an District,Shenzhen, China			
Manufacturer	:	Shen Zhen Leyifeng Technology Co.,Ltd			
Address :		3/F.Buiding B,Xinzhongtai Science and Technology park,Gushuyi,Xixiang,Bao'an District,Shenzhen, China			

1.2 General Description of EUT (Equipment Under Test)

EUT Name	:	Intelligent separated call wristband				
Models No.	:	D9				
Model Different		N/A				
Brand Name	2	karenBand				
Sample ID		HC-C-202412-0181-01-01				
Product Description	2	Operation Frequency:	Bluetooth&BLE: 2402MHz~2480MHz			
		Antenna Gain:	2.7dBi Chip Antenna			
Power Rating	:	USB Input: DC 5V DC 3.8V 240mAh Rechargeable Li-ion battery				
Software Version	:	V0.1.6				
Hardware Version	ę	DHF-D9-V1.5(JL7012)				





SAR Test Exclusion Calculations

- 1. 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
 - 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)]*[√ f_(GHz)] ≤3.0 for 1-g SAR [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[√ f_(GHz)] ≤7.5.0 for 10-g SAR

2. Summary simultaneous transmission for SAR Exclusion

The SAR exemption limits outlined in clause 4.3.2(b) of KDB 447498 have been derived based on an approximate SAR value of 0.4 W/kg using half-wave dipole antennas Footnote 1. As such, when simultaneous transmitter SAR evaluations include transmitters that have been exempt from routine SAR evaluation, the SAR must be estimating based on the ratio between the maximum tune-up tolerance limit of the transmitter that has been exempt and the exemption limit at the specific distance and frequency for that transmitter. This ratio must be multiplied by 0.4 W/kg (2.0 W/kg for controlled use and 1.0 W/kg for limb worn devices) in order to calculate the estimated SAR level.

The estimate SAR value is calculated based the following equation:

(maximum power level including tune-up tolerance for transmitter A / maximum power level of exemption at the same frequency and distance) * 0.4W/kg

- 1) $[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] \cdot [\sqrt{f_{(GHz)}/x}] W/kg, for test separation distances <math>\leq 50 \text{ mm};$
 - where x = 7.5 for 1-g SAR and x = 18.75 for 10-g SAR.
- 0.4 W/kg for 1-g SAR and 1.0 W/kg for 10-g SAR, when the *test separation distance* is > 50 mm.³⁷

The [\sum of (the highest measured or estimated SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg] + [\sum of MPE ratios] is \leq 1.0.

The SAR to peak location separation ratios of all simultaneously transmitting antenna pairs operating in portable device exposure conditions are all ≤ 0.04 , and the [\sum of MPE ratios] is ≤ 1.0 .





3. Calculation:

Test separatio	n: 5mm					
	1200	В	luetooth Mode (GFSK	()		-
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
2402	1.409	1±1	2	1.585	0.491	3.0
2441	1.888	1±1	2	1.585	0.495	3.0
2480	1.269	1±1	2	1.585	0.499	3.0
	T.L.	Blue	etooth Mode (π/4-DQP	SK)		C.A.
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
2402	2.334	2±1	3	1.995	0.618	3.0
2441	2.798	2±1	3	1.995	0.623	3.0
2480	2.2	2±1	3	1.995	0.628	3.0
600		BI	uetooth Mode (8-DPS	K)	COD)	
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
2402	3.071	3±1	4	2.512	0.779	3.0
2441	3.498	3±1	4	2.512	0.785	3.0
2480	2.841	3±1	4	2.512	0.791	3.0
100	~ ~ ~		BLE 1M			
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
2402	1.618	2±1	3	1.995	0.618	3.0
2440	2.037	2±1	3	1.995	0.623	3.0
2480	1.366	2±1	3	1.995	0.628	3.0
	100	501	BLE 2M			
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
2402	1.704	2±1	3	1.995	0.618	3.0
2440	2.167	2±1	3	1.995	0.623	3.0
2480	1.533	2±1	3	1.995	0.628	3.0

Conclusion:

The measurement results comply with the FCC Limit per 47 CFR 2.1093 for the uncontrolled RF Exposure and SAR Exclusion Threshold per KDB 447498 v06.

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