

RF Exposure Evaluation

report
On Behalf of
Slinph Technologies Co., Ltd
For
iHelmet Hair Growth System
Model No.: LTD160Pro, LTD200S, LTD88Lite, LTD36Air

FCC ID: 2AMIY-LTD

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1 General Description of EUT

Product Name:	iHelmet Hair Growth System
Model/Type reference:	LTD160Pro
Serial Model:	LTD200S, LTD88Lite, LTD36Air
Trade Mark:	N/A
FCC ID :	2AMIY-LTD
Hardware Version:	V1.2
Software Version:	V1.4
Operation frequency:	2402MHz to 2480MHz
Channel separation:	2MHz
Channel number:	40
Modulation Technology:	GFSK
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi
Power Supply:	DC 3.7V from battery

2 RF Exposure Compliance Requirement

2.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

2.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation

distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

3 EUT RF Exposure

BLE:

GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-3.173	-4 ± 1	-3	0.501	0.155	3.0
Middle (2440MHz)	-4.649	-5 ± 1	-4	0.398	0.124	
Highest (2480MHz)	-5.338	-5 ± 1	-4	0.398	0.125	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: HK1911212974-E