



Report No.: SZEM190201092702

Page: 1 of 6

## SAR Evaluation Report

**Application No.:** SZEM1902010927CR(SGS SZ No.:T51910200120EM)  
**Applicant:** Lucky Group(H.K.) Limited  
**Address of Applicant:** Building B, Lucky Industrial Park, Hongjin Road, Hongmei Town, Dongguan, China  
**Manufacturer:** Dongguan Little Dolphin Tech Co., Ltd  
**Supplier:** Luck Group(H.K.) Limited  
**Buyer:** D&B  
**Equipment Under Test (EUT):**  
**EUT Name:** Headphones, Animal Ears  
**Item No.:** 17178  
**Model No.:** Cat Ears, Devil Ears, Unicorn ♦  
♦ Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.  
**Country of Origin:** China  
**Country of Destination:** USA  
**FCC ID:** 2ACO3-17178-1  
**Standards:** 47 CFR Part 1.1307  
47 CFR Part 2.1093  
KDB447498D01 General RF Exposure Guidance v06  
**Date of Receipt:** 2019-02-13  
**Date of Test:** 2019-02-16 to 2019-02-24  
**Date of Issue:** 2019-02-26

<b>Test Result :</b>	<b>PASS*</b>
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\* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu  
EMC Laboratory Manager



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## 2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2019-02-26		Original

Authorized for issue by:			
		Vincent Chen	
		_____ Vincent Chen /Project Engineer	
		Eric Fu	
		_____ Eric Fu /Reviewer	

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## 4 General Information

### 4.1 General Description of EUT

Power supply:	DC 3.7V rechargeable lithium battery Charge by DC 5V from USB port
Bluetooth Version:	V4.2+EDR
Operation Frequency:	2402MHz to 2480MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channels:	79
Channel Spacing:	1MHz
Antenna Type:	PCB Antenna
Antenna Gain:	0dBi

#### Remark:

Model No.: Cat Ears, Devil Ears, Unicorn

Only the model Cat Ears was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for the above models, with only difference on appearance and model No..

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## 5 SAR Evaluation

### 5.1 RF Exposure Compliance Requirement

#### 5.1.1 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.

#### 5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances  $\leq 50$  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 calculation<sup>17</sup>

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is  $\leq 50$  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

#### 5.1.3 EUT RF Exposure

The Max. power (including tune-up tolerance) is 2.00 dBm on the middle channel	2.441	GHz (*)
2.00 dBm logarithmic terms convert to numeric result is nearly 1.58 mW		
According to the formula. calculate the test exclusion thresholds:		
$\text{General RF Exposure} = \frac{(\text{Max. Power of channel, including tune-up tolerance, mW}) * \sqrt{f(\text{GHz})}}{(\text{min. test separation distance, mm})}$		
$\text{General RF Exposure} = (1.58 \text{ mW} / 5 \text{ mm}) \times \sqrt{2.441 \text{ GHz}} = 0.49$	(1)	
SAR requirement:		
$S = 3.0$	(2)	
$(1) < (2)$		
So the SAR report is not required.		
(*) Max. power refer to Report No.:SZEM190201092701		

- End of the Report -



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