

# TEST REPORT

**Product Name** : TWS Bluetooth earphones  
**Brand Mark** : N/A  
**Model No.** : BH21QT18B  
**FCC ID** : RDR-BH21QT18BR  
**Report Number** : BLA-EMC-202112-A3803  
**Date of Sample Receipt** : 2021/12/9  
**Date of Test** : 2021/12/9 to 2021/12/16  
**Date of Issue** : 2021/12/16  
**Test Standard** : 47 CFR Part 1.1307, Part 2.1093, KDB  
447498  
**Test Result** : Pass

Prepared for:

**Dongguan Hele Electronics Co.,Ltd**  
**No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province**  
**China**

Prepared by:

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Date:

2021/12/16



## REPORT REVISE RECORD

Version No.	Date	Description
00	2021/12/16	Original

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## 1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
RF Exposure	47 CFR Part 1.1307, Part 2.1093, KDB 447498	CFR 47 Part 2.1093	CFR 47 Part 2.1093	PASS

## 2 GENERAL INFORMATION

<b>Applicant</b>	Dongguan Hele Electronics Co.,Ltd
<b>Address</b>	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China
<b>Manufacturer</b>	Dongguan Hele Electronics Co.,Ltd
<b>Address</b>	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China
<b>Factory</b>	Dongguan Hele Electronics Co.,Ltd
<b>Address</b>	No.325 Yuehui Rd. Daojiao Town Dongguan City Guangdong Province China
<b>Product Name</b>	TWS Bluetooth earphones
<b>Test Model No.</b>	BH21QT18B

## 3 GENERAL DESCRIPTION OF E.U.T.

<b>Hardware Version</b>	N/A
<b>Software Version</b>	N/A
<b>Operation Frequency:</b>	2402MHz-2480MHz
<b>Modulation Type:</b>	GFSK, pi/4DQPSK, 8DPSK
<b>Channel Spacing:</b>	1MHz
<b>Number of Channels:</b>	79
<b>Antenna Type:</b>	internal Antenna
<b>Antenna Gain:</b>	1.6dBi(Provided by the applicant)

#### 4 LABORATORY LOCATION

All tests were performed at:  
BlueAsia of Technical Services(Shenzhen) Co., Ltd.  
Building C, No. 107, Shihuan Road, Shiyan Sub-District, Baoan District, Shenzhen, Guangdong Province,  
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Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673  
No tests were sub-contracted.

## 5 RF EXPOSURE COMPLIANCE REQUIREMENT

### 5.1 STANDARD REQUIREMENT

According to KDB447498D01 General RF Exposure Guidance v06

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.

### 5.2 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:

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

### 5.3 EUT RF EXPOSURE

Operational Mode: BT (8DPSK)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402 MHz	3.003	±1	4.003	2.51	0.78	3.0
2441 MHz	1.81	±1	2.81	1.91	0.60	
2480 MHz	1.18	±1	2.18	1.65	0.52	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

----END OF REPORT----

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