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RF Exposure Evaluation Report

Report No. : CQASZ20190300201E-03
Applicant: Innovation Sound Technology Co.,Ltd.
Address of Applicant: Building 2nd/3rd/4th, Industrial Area of Huaide Cuihai Fengtang Road, Fuyong Town, Shenzhen, China
Manufacturer: Innovation Sound Technology Co.,Ltd.
Address of Manufacturer: Building 2nd/3rd/4th, Industrial Area of Huaide Cuihai Fengtang Road, Fuyong Town, Shenzhen, China
Equipment Under Test (EUT):
Product: AmazonBasics Over-Ear Bluetooth Wireless Headset
Model No.: B07LBYLM7B, B07LBX3K5F
Brand Name: N/A
FCC ID: 2AKSL-PBH89366
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Test: 2019-03-24 to 2019-04-19
Date of Issue: 2019-04-19
Test Result : PASS*

Tested By:

Daisy Qin

Reviewed By:

*(Daisy Qin)
Aaron Ma*

Approved By:

*(Aaron Ma)
Jack Ai*
(Jack Ai)



* In the configuration tested, the EUT complied with the standards specified above.

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20190300201E-03	Rev.01	Initial report	2019-04-01

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3 General Information

3.1 Client Information

Applicant:	Innovation Sound Technology Co.,Ltd.
Address of Applicant:	Building 2nd/3rd/4th, Industrial Area of Huaide Cuihai Fengtang Road, Fuyong Town, Shenzhen, China
Manufacturer:	Innovation Sound Technology Co.,Ltd.
Address of Manufacturer:	Building 2nd/3rd/4th, Industrial Area of Huaide Cuihai Fengtang Road, Fuyong Town, Shenzhen, China

3.2 General Description of EUT

Product Name:	AmazonBasics Over-Ear Bluetooth Wireless Headset
All Model No.:	B07LBYLM7B, B07LBX3K5F
Trade Mark:	N/A
Hardware Version:	SPEC-BTH-1192-01A
Software Version:	SPEC-BTH-1192-01A
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
Power Supply:	lithium battery:DC3.7V

3.3 General Description of BLE

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	5.0
Modulation Type:	GFSK
Transfer Rate:	1Mbps
Number of Channel:	40
Test Software of EUT:	Bluetooth test 3(manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	3.3dBi

3.4 General Description of BT classic

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	5.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Transfer Rate:	1Mbps/2Mbps/3Mbps
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Test Software of EUT:	Bluetooth test 3(manufacturer declare)

Antenna Type:	PCB antenna
Antenna Gain:	3.3dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 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.

4.1.2 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:

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

- f(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

4.1.3 EUT RF Exposure

Measurement Data

1) For BLE

Test mode : GFSK_1Mbps						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-1.14	-1.0	-1	0.794	0.246	3.0
Middle (2440MHz)	0.54	1.0	1	1.259	0.393	
Highest (2480MHz)	2.42	2.5	2.5	1.778	0.560	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190300201E-01

2) For BT classic

Test mode : GFSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-2.95	-2.5	-2.5	0.562	0.174	3.0
Middle (2440MHz)	-0.46	0	0	1.000	0.312	
Highest (2480MHz)	1.54	2.0	2	1.585	0.499	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Test mode : $\pi/4$ DQPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-5.34	-5.0	-5	0.316	0.098	3.0
Middle (2440MHz)	-2.59	-2.5	-2.5	0.562	0.176	
Highest (2480MHz)	-0.30	0	0	1.000	0.315	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Test mode : 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	-4.890	-4.5	-4.5	0.355	0.110	3.0
Middle (2440MHz)	-2.230	-2	-2	0.631	0.197	
Highest (2480MHz)	0.060	0	0	1.000	0.315	
Conclusion: the calculated value ≤ 3.0 , SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20190300201E-02