Shenzhen Huaxia Testing Technology Co., Ltd

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

Telephone: +86-755-26648640
Fax: +86-755-26648637
Website: www.cqa-cert.com

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RF Exposure Evaluation Report

Report No. :	CQASZ20181100010E-02
Applicant:	Cosonic Intelligent Technologies Co.,Ltd.
Address of Applicant:	506, 1st Building,No.6, South Industry Road, Songshan Lake National High-tech Industrial Development Zone, Dongguan City, Guangdong, China 523808
Manufacturer:	Cosonic Intelligent Technologies Co.,Ltd.
Address of Manufacturer:	506, 1st Building,No.6, South Industry Road, Songshan Lake National High-tech Industrial Development Zone, Dongguan City, Guangdong, China 523808
Equipment Under Test (EUT):	
Product:	WIRELESS HEADPHONES
Model No.:	HA-ET65BV
Brand Name:	JVC
FCC ID:	2ALVKHA-ET65BV
Standards:	47 CFR Part 1.1307 47 CFR Part 2.1093 KDB447498D01 General RF Exposure Guidance v06
Date of Test:	2018-12-03 to 2018-12-11
Date of Issue:	2018-12-11
Test Result :	**PASS***

Tested By: _____
(Daisy Qin)

Reviewed By: _____
(Aaron Ma)

Approved By: _____
(Jack Ai)

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

1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20181100010E-02	Rev.01	Initial report	2018-12-11

2 Contents

3 General Information

3.1 Client Information

Applicant:	Cosonic Intelligent Technologies Co.,Ltd.
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Manufacturer:	Cosonic Intelligent Technologies Co.,Ltd.
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3.2 General Description of EUT

Product Name:	WIRELESS HEADPHONES
Model No.:	HA-ET65BV
Trade Mark:	JVC
Hardware Version:	JX182-02V3.0
Software Version:	JX182-02_SDK26.0_AB1522S_JVC-HA-ET65BV_V0.18.airoflashZ
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	☐ Mobile ☒ Portable ☐ Fix Location
Test Software of EUT:	Airoha.AB152xS_Configuration Tool (manufacturer declare)
Antenna Type:	Ceramic antenna
Antenna Gain:	2.0dBi
Power Supply:	lithium battery:DC3.7V, Charge by USB

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:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR and ≤ 7.5 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 calculation[17]
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

GFSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	2.960	2.5±1	3.5	2.239
Middle(2441MHz)	2.300	1.5±1	2.5	1.778
Highest(2480MHz)	1.960	1.0±1	2.0	1.585
π/4DQPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.100	2.5±1	3.5	2.239
Middle(2441MHz)	2.550	2.0±1	3.0	1.995
Highest(2480MHz)	2.260	1.5±1	2.5	1.778
8DPSK mode				
Test channel	Peak Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power	
			(dBm)	(mW)
Lowest(2402MHz)	3.120	2.5±1	3.5	2.239
Middle(2441MHz)	2.530	2.0±1	3.0	1.995
Highest(2480MHz)	2.280	1.5±1	2.5	1.778

Worst case: 8DPSK						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	3.120	2.5±1	3.5	2.239	0.69	3.0
Middle (2440MHz)	2.530	2.0±1	3.0	1.995	0.62	
Highest (2480MHz)	2.280	1.5±1	2.5	1.778	0.56	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20181100010E-01