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RF Exposure Evaluation Report

Report No. : CQASZ20180500008E-02

Applicant: iLUV Creative Technology

Address of Applicant: 2 Harbor Park Drive, Port Washington, NY11050, New York, United States

Manufacturer: Shenzhen Junlan Electronic Ltd

Address of Manufacturer: No.277 PingKui Road, Shijing Community, Pingshan Street, Pingshan New District, Shenzhen, China.

Equipment Under Test (EUT):

Product: BT Alexa speaker

Test Model No.: AUDCLICK 2/CAB-6D510

Additional Model No.: AUDCLICK2XX (XX=COLOR CODE, BK=black....)

Brand Name: iLUV

FCC ID: ATL- AUDCLICK2

Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-05-04 to 2018-05-09

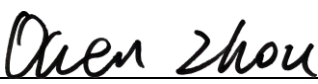
Date of Issue: 2018-05-09

Test Result : PASS*

Tested By:


(Aaron Ma)

Reviewed By:


(Owen Zhou)

Approved By:


(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.

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180500008E-02	Rev.01	Initial report	2018-05-09

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4 General Information

4.1 Client Information

Applicant:	iLUV Creative Technology
Address of Applicant:	2 Harbor Park Drive, Port Washington, NY11050, New York, United States
Manufacturer:	Shenzhen Junlan Electronic Ltd
Address of Manufacturer:	No.277 PingKui Road, Shijing Community, Pingshan Street,Pingshan New District, Shenzhen, China.

4.2 General Description of EUT

Product Name:	BT Alexa speaker
Test Model No.:	AUDCLICK 2/CAB-6D510
Additional Model No.:	AUDCLICK2XX (XX=COLOR CODE, BK=black....)
Trade Mark:	iLUV
Hardware Version:	V1.0
Software Version:	V1.0
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V3.0
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	portable production
Test Software of EUT:	Bluetooth MP Tool (manufacturer declare)
Antenna Type:	Integral antenna
Antenna Gain:	0dBi
Power Supply:	lithium battery:DC3.7V, Charge by DC5.0V

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 ≤ 50 mm are determined by:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{[\sqrt{f(\text{GHz})}]^2} \right] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

$f(\text{GHz})$ 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

5.1.3 EUT RF Exposure

For BT:

Measurement Data

GFSK mode	
Test channel	Peak Output Power (dBm)
Lowest	3.610
Middle	4.430
Highest	4.360
$\pi/4$ DQPSK mode	
Test channel	Peak Output Power (dBm)
Lowest	0.810
Middle	1.640
Highest	1.610
8DPSK mode	
Test channel	Peak Output Power (dBm)
Lowest	1.520
Middle	2.340
Highest	2.220

The Max Conducted Peak Output Power is 4.43dBm in middle channel(2.441GHz);

The best case gain of the antenna is 4.43dBi.

EIRP= 4.43dBm +0dBi = 4.43dBm

4.43dBm logarithmic terms convert to numeric result is nearly 2.77mW

According to the formula. calculate the EIRP test result:

$$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})}$$

General RF Exposure = $2.77\text{mW} / 5 \text{ mm}) \times \sqrt{2.441\text{GHz}} = 0.87$ ①

SAR requirement:

S= 3.0

② ;

① < ②.

So the SAR report is not required.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20180500008E-01