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RF Exposure Evaluation Report

Report No.: CQASZ20181000021E-02

Applicant: Shenzhen SKY DRAGON Audio-video Technology Co.LTD

Address of Applicant: B16, Laneway 3, Liuxian 2RD, District 71, Baoan, Shenzhen, China

Shenzhen SKY DRAGON Audio-video Technology Co.LTD Manufacturer:

Address of Manufacturer: B16, Laneway 3, Liuxian 2RD, District 71, Baoan, Shenzhen, China

Equipment Under Test (EUT):

Product: Party Speaker

All Model No.: PT860, ISB659B, RD0605

Test Model No.: PT860

Brand Name: SAMESAY, CKY

FCC ID: ZJP-RD0605

47 CFR Part 1.1307 Standards:

47 CFR Part 2.1093

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-10-25 to 2018-11-12

Date of Issue: 2018-11-12 Test Result: PASS*

Tested By:

(Martin Lee)

pravin Lee

Reviewed By:

(Aaron Ma)

Jack Ai)

Approved By:

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.

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



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1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20181000021E-02	Rev.01	Initial report	2018-11-12





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3 General Information

3.1 Client Information

Applicant:	Shenzhen SKY DRAGON Audio-video Technology Co.LTD
Address of Applicant:	B16,Laneway 3,Liuxian 2RD,District71,Baoan,Shenzhen, China
Manufacturer:	Shenzhen SKY DRAGON Audio-video Technology Co.LTD
Address of Manufacturer:	B16,Laneway 3,Liuxian 2RD,District71,Baoan,Shenzhen, China

3.2 General Description of EUT

Product Name:	Party Speaker
All Model No.:	PT860, ISB659B, RD0605
Test Model No.:	PT860
Trade Mark:	SAMESAY, CKY
Hardware Version:	V02
Software Version:	V03
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V4.1
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, π/4DQPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Sample Type:	
Test Software of EUT:	FCCAssist_V2.4 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	-0.58dBi
Power Supply:	Adapter:
	MODEL: JDA1400120WUS
	INPUT: 100-240~50/60Hz 0.8A
	OUTPUT: 14V 1.2A
	lithium battery:DC12V, 2000mAh

Note:

All model: PT860, ISB659B, RD0605

Only the model PT860 was tested, since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and model name.



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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)] \cdot [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 calculation¹⁷

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

4.1.3 EUT RF Exposure



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For BT:

Measurement Data

mododi omone bata			
	GFSK mode		
Test channel	Peak Output Power (dBm)		
Lowest	-2.340		
Middle	-2.420		
Highest	-2.530		
π/4DQPSK mode			
Test channel	Peak Output Power (dBm)		
Lowest	-1.580		
Middle	-1.440		
Highest	-1.710		

The Max Conducted Peak Output Power is -1.44dBm in Lowest channel(2.441GHz);

The best case gain of the antenna is -0.58dBi.

EIRP = -1.44dBm + -0.58dBi = -2.02dBm

-2.02dBm logarithmic terms convert to numeric result is nearly 0.63mW

According to the formula. calculate the EIRP test result:

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

General RF Exposure = $(0.63\text{mW} / 5 \text{ mm}) \times \sqrt{2.441\text{GHz}} = 0.2 \text{ }\bigcirc$

SAR requirement:

S= 3.0

1 < 2.

②;

So the SAR report is not required.

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20181000021E-01