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Report Template Version: V03

Report Template Revision Date: Mar.1st, 2017

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RF Exposure Evaluation Report

Report No.: CQASZ20180300040EW-02

Applicant: SUNVALLEYTEK INTERNATIONAL, INC.

Address of Applicant: 46724 Lakeview Blvd, Fremont, California, United States, 94538-6529

Manufacturer: Shenzhen NearbyExpress Technology Development Company Limited

Address of 333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang

Manufacturer: District, Shenzhen, China

Factory: GANZHOU DEHUIDA TECHNOLOGY CO., LTD.

Address of Factory: No. 5,6,7,8,9 Build, Dehuida Science and Technology Park, Huoyanshan Road,

Anyuan District, Ganzhou City, Jianxi Province, China

Equipment Under Test (EUT):

Product:Sound BarModel No.:TT-SK019Brand Name:TaoTronics

 FCC ID:
 2AFDGTT-SK019

 Standards:
 47 CFR Part 1.1307

 47 CFR Part 2.1091

KDB447498D01 General RF Exposure Guidance v06

Date of Test: 2018-04-15 to 2018-04-23

Date of Issue: 2018-04-23
Test Result: PASS*

Tested By:

(Aaron Ma)

Reviewed By: Wen Zhou

Owen Zhou)

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.



Report No.: CQASZ20180300040EW-02

2 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20180300040EW-02	Rev.01	Initial report	2018-04-23





Report No.: CQASZ20180300040EW-02

3 Contents

		Page
1	COVER PAGE	1
2	2 VERSION	2
_		
3	3 CONTENTS	3
-	4 GENERAL INFORMATION	
	4.1 CLIENT INFORMATION	4
	4.2 GENERAL DESCRIPTION OF EUT	4
5	5 SAR EVALUATION	5
	5.1 RF Exposure Compliance Requirement	5
	5.1.1 Standard Requirement	5
	5.1.2 Limits	5
	5.1.3 FUT RF Exposure	



Report No.: CQASZ20180300040EW-02

4 General Information

4.1 Client Information

Applicant:	SUNVALLEYTEK INTERNATIONAL, INC.	
Address of Applicant:	46724 Lakeview Blvd, Fremont, California, United States, 94538-6529	
Manufacturer:	Shenzhen NearbyExpress Technology Development Company Limited	
Address of Manufacturer:	333 Bulong Road, Jialianda Industrial Park, Building 1, Bantian, Longgang District, Shenzhen, China	
Factory:	GANZHOU DEHUIDA TECHNOLOGY CO., LTD.	
Address of Factory:	No. 5,6,7,8,9 Build, Dehuida Science and Technology Park, Huoyanshan Road, Anyuan District, Ganzhou City, Jianxi Province, China	

4.2 General Description of EUT

-	
Product Name:	Sound Bar
Model No.:	TT-SK019
Trade Mark:	TaoTronics
Hardware Version:	V1.0
Software Version:	V1.2
Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V3.0
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:	Moible production
Test Software of EUT:	FCCAssist 2.4 (manufacturer declare)
Antenna Type:	PCB antenna
Antenna Gain:	0dBi
Power Supply:	Adaptor :BI36-182000-AdU
	Input:100-240V~50/60Hz 1.2A
	Output: DC18V 2A



Report No.: CQASZ20180300040EW-02

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:

[(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 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 \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

5.1.3 EUT RF Exposure



Report No.: CQASZ20180300040EW-02

For BT:

Measurement Data

moded official bata			
	GFSK mode		
Test channel	Peak Output Power (dBm)		
Lowest	-2.90		
Middle	-3.17		
Highest	-4.11		
π/4DQPSK mode			
Test channel	Peak Output Power (dBm)		
Lowest	-2.05		
Middle	-2.27		
Highest	-3.30		

The Max Conducted Peak Output Power is -2.05dBm in lowest channel(2.402GHz);

The best case gain of the antenna is 0dBi.

EIRP= -2.05dBm + 0dBi =-2.05dBm

-2.05dBm logarithmic terms convert to numeric result is nearly 0.62mW

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 = $(0.62\text{mW} / 5 \text{ mm}) \times \sqrt{2.402\text{GHz}} = 0.192$

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.:

CQASZ20180300040EW-01