

RF Exposure Evaluation Report

Product : Sonic Electric Toothbrush
Trade mark : N/A
Model/Type reference : P80S,K7S
Serial Number : N/A
Report Number : EED32O80006303
FCC ID : 2A4CSBTEB
Date of Issue : Mar. 02, 2022
: 47 CFR Part 1.1307
: 47 CFR Part 2.1093
Test Standards : KDB447498D01 General RF
: Exposure Guidance v06
Test result : PASS

Prepared for:

Clevo Innovation INC
2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080

Prepared by:

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Mar. 02, 2022

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2 Version

Version No.	Date	Description
00	Mar. 02, 2022	Original

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4 General Information

4.1 Client Information

Applicant:	Clevo Innovation INC
Address of Applicant:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Manufacturer:	Clevo Innovation INC
Address of Manufacturer:	2060 N COLLINS BLVD STE 110 RICHARDSON TX 75080
Factory:	Shenzhen Risun Technology Co.,Ltd
Address of Factory:	Building A,No.6 of Xinmu Road,Xinmu community,Pinghu,Longgang District,Shenzhen,China

4.2 General Description of EUT

Product Name:	Sonic Electric Toothbrush
Mode No.(EUT):	P80S、K7S
Trade Mark:	N/A
EUT Supports Radios application:	BT 5.0 Single module 2402MHz to 2480MHz

4.3 Product Specification subjective to this standard

Frequency Range:	BT 5.0 Single module 2402MHz to 2480MHz;	
Modulation Type:	GFSK	
Transfer Rate:	☒ 1Mbps ☒ 2Mbps	
Test Power Grade:	Default	
Test Software of EUT:	sscom5.12	
Antenna Type:	Ceramic Antenna	
Antenna Gain:	2.64dBi	
Power Supply:	Battery:	DC3.7V,5.18Wh,1400mAh
Max Conducted Peak Output Power:	-0.44dBm	
	The Max Conducted Peak Output Power data refer to the report EED32O80006302	
Sample Received Date:	Jan, 27. 2022	
Sample tested Date:	Jan, 27. 2022 to Jan, 28. 2022	
Company Name and Address shown on Report, the sample(s) and sample Information was/ were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.		
Model No.: P80S,K7S Since the electrical circuit design, layout, components used and internal wiring were identical for the above models, with difference being color of appearance and product model.		

4.4 Test Location

All tests were performed at:

Centre Testing International Group Co., Ltd

Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China

Telephone: +86 (0) 755 33683668 Fax: +86 (0) 755 33683385

No tests were sub-contracted.

FCC Designation No.: CN1164

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

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:

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

$f(\text{GHz})$ 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

5.1.2 EUT RF Exposure

The tune-up power is -0.5 dBm +/- 0.5dB, therefore the highest tune-up power is

0.000	(1.00 mW)	@ 2480 MHz
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When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

So,

(	1.00	/	5mm	)	*	(	2.480GHz	^0.5	)	=	0.3
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[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] *

[√f(GHz)] = 0.3 < 3.0

Therefore, standalone SAR measurements are not required for both head and body.

PHOTOGRAPHS OF EUT Constructional Details

Refer to Report No. EED32O80006301 for EUT external and internal photos.

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 CTI, this report can't be reproduced except in full.

*** End of Report ***