

TEST REPORT

Product Name : Electric toothbrush
Brand Mark : infly
Model No. : T20030SIN
Report Number : BLA-EMC-202007-A6402
Date of Sample Receipt : 2020/7/21
Date of Test : 2020/7/21 to 2020/8/5
Date of Issue : 2020/8/5
Test Standard : 47 CFR Part 15, Subpart B
Test Result : Pass

Prepared for:

Dongguan Infly Life Technology Co., Ltd.

Room 202 Block 1 No.36 Caixin Road Daojiao Town Dongguan Guangdong China.

Prepared by:

BlueAsia of Technical Services(Shenzhen) Co.,Ltd.

IOT Test Centre of BlueAsia

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Date: 2020/8/5



REPORT REVISE RECORD

Version No.	Date	Description
00	2020/8/5	Original

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1 TEST SUMMARY

Test item	Test Requirement	Test Method	Class/Severity	Result
Conducted Emissions at Mains Terminals (150kHz-30MHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass
Radiated Emissions (30MHz-1GHz)	47 CFR Part 15, Subpart B	ANSI C63.4:2014	Class B	Pass

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2 GENERAL INFORMATION

Applicant	Dongguan Infly Life Technology Co., Ltd.
Address	Room 202 Block 1 No.36 Caixin Road Daojiao Town Dongguan Guangdong China.
Manufacturer	Dongguan Infly Life Technology Co., Ltd.
Address	Room 202 Block 1 No.36 Caixin Road Daojiao Town Dongguan Guangdong China.
Factory	Dongguan Infly Life Technology Co., Ltd.
Address	Room 202 Block 1 No.36 Caixin Road Daojiao Town Dongguan Guangdong China.

3 GENERAL DESCRIPTION OF E.U.T.

Product Name	Electric toothbrush
Test Model No.	T20030SIN
Battery	3.7V
Hardware Version	N/A
Software Version	N/A

4 TEST MODE

TEST MODE	TEST MODE DESCRIPTION
Working	Keep the EUT in Working mode
Charging	Keep the EUT in wireless charging mode
Remark: Only the data of the worst mode would be recorded in this report.	

5 MEASUREMENT UNCERTAINTY

Parameter	Expanded Uncertainty (Confidence of 95%)
Radiated Emission	±4.34dB
Radiated Emission	±4.24dB
Radiated Emission	±4.68dB
AC Power Line Conducted Emission	±3.45dB

6 DESCRIPTION OF SUPPORT UNIT

Device Type	Manufacturer	Model Name	Serial No.	Remark
AC Adapter	UGREEN	CD112	N/A	N/A

7 LABORATORY LOCATION

All tests were performed at:
BlueAsia of Technical Services(Shenzhen) Co., Ltd.
IOT Test Centre of BlueAsia
No. 448 Bulong Road, Bantian Street, Longgang District, Shenzhen, China
Telephone: TEL: +86-755-28682673 FAX: +86-755-28682673
No tests were sub-contracted.

8 TEST INSTRUMENTS LIST

Test Equipment Of Conducted Emissions at Mains Terminals (150kHz-30MHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Shield room	SKET	833	N/A	6/10/2018	6/9/2021
Receiver	R&S	ESPI3	101082	5/7/2020	5/7/2021
LISN	R&S	ENV216	3560.6550.15	7/4/2020	7/3/2021
LISN	AT	AT166-2	AKK1806000003	12/18/2019	12/17/2020
EMI software	EZ	EZ-EMC	N/A	N/A	N/A

Test Equipment Of Radiated Emissions (above 1GHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021
Spectrum	R&S	FSP40	100817	7/4/2020	7/3/2021
Horn Antenna	Schwarzbeck	9120D	01892 P:00331	7/14/2019	7/13/2021
Amplifier	SKET	LNPA-0118-45	N/A	7/4/2020	7/3/2021
EMI software	EZ	EZ-EMC	N/A	N/A	N/A

Test Equipment Of Radiated Emissions (30MHz-1GHz)					
Equipment	Manufacturer	Model	S/N	Cal.Date	Cal.Due
Chamber	SKET	966	N/A	5/8/2018	5/7/2021
Receiver	R&S	ESR7	101199	5/7/2020	5/6/2021
EMI software	EZ	EZ-EMC	N/A	N/A	N/A
broadband Antenna	Schwarzbeck	VULB9168	00836 P:00227	7/14/2019	7/13/2021

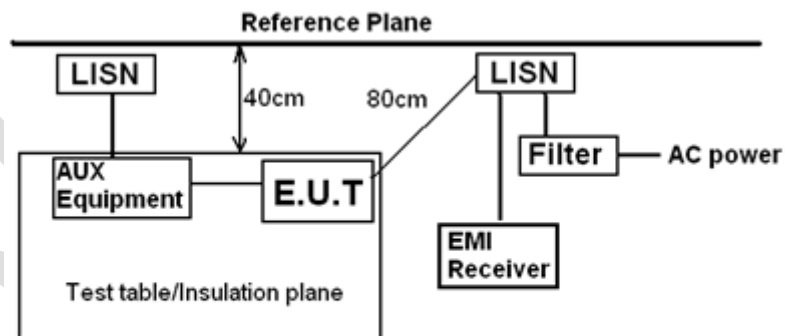
CONDUCTED EMISSIONS AT MAINS TERMINALS (150KHZ-30MHZ)

Test Standard	47 CFR Part 15, Subpart B
Test Method	ANSI C63.4:2014
Test Mode (Pre-Scan)	Charging
Test Mode (Final Test)	Charging
Tester	Eason
Temperature	25°C
Humidity	55%

LIMITS

Frequency Range	Limit
0.15M-0.5MHz	66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average
0.5M-5MHz	56dB(μV) quasi-peak, 46dB(μV) average
5M-30MHz	60dB(μV) quasi-peak, 50dB(μV) average

BLOCK DIAGRAM OF TEST SETUP



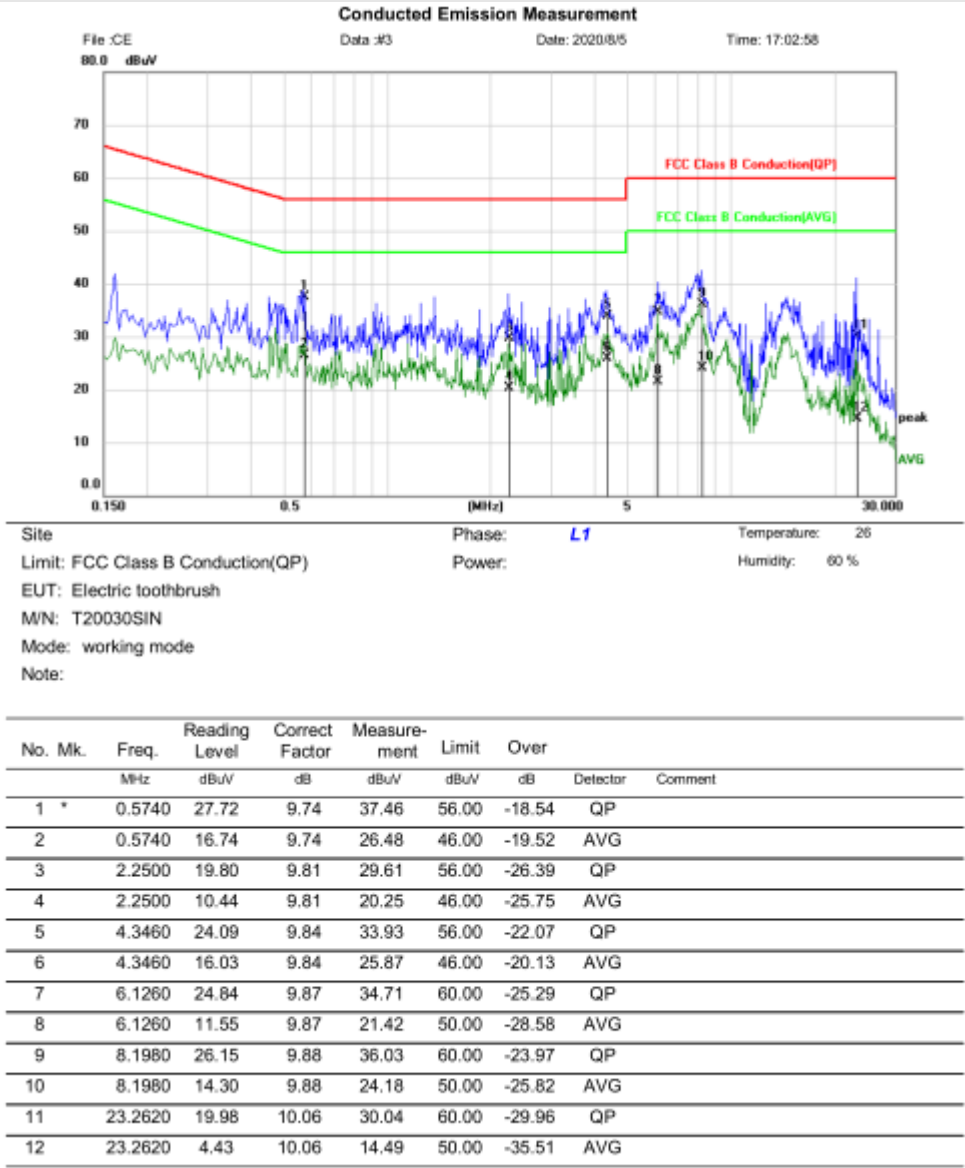
Remark
 E.U.T: Equipment Under Test
 LISN: Line Impedance Stabilization Network
 Test table height=0.8m

PROCEDURE

An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

TEST DATA

[TestMode: Charging]; [Line: Line]
Power:AC120V/60Hz



Test Result: Pass

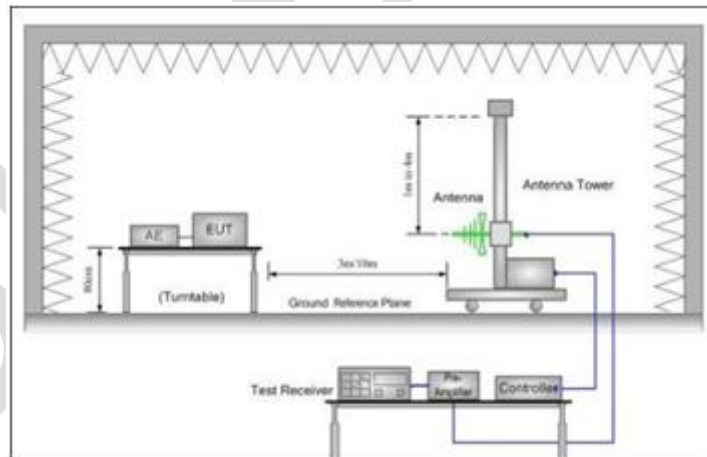
RADIATED EMISSIONS (30MHZ-1GHZ)

Test Standard	47 CFR Part 15, Subpart B
Test Method	ANSI C63.4:2014
Test Mode (Pre-Scan)	Working
Test Mode (Final Test)	Working
Tester	Eason
Temperature	25°C
Humidity	55%

LIMITS

Frequency Range	Limit
30MHz -88MHz	40.0(dB μ V/m) quasi-peak
88MHz-216MHz	43.5(dB μ V/m) quasi-peak
216MHz-960MHz	46.0(dB μ V/m) quasi-peak
960MHz-1000MHz	54.0(dB μ V/m) quasi-peak

BLOCK DIAGRAM OF TEST SETUP

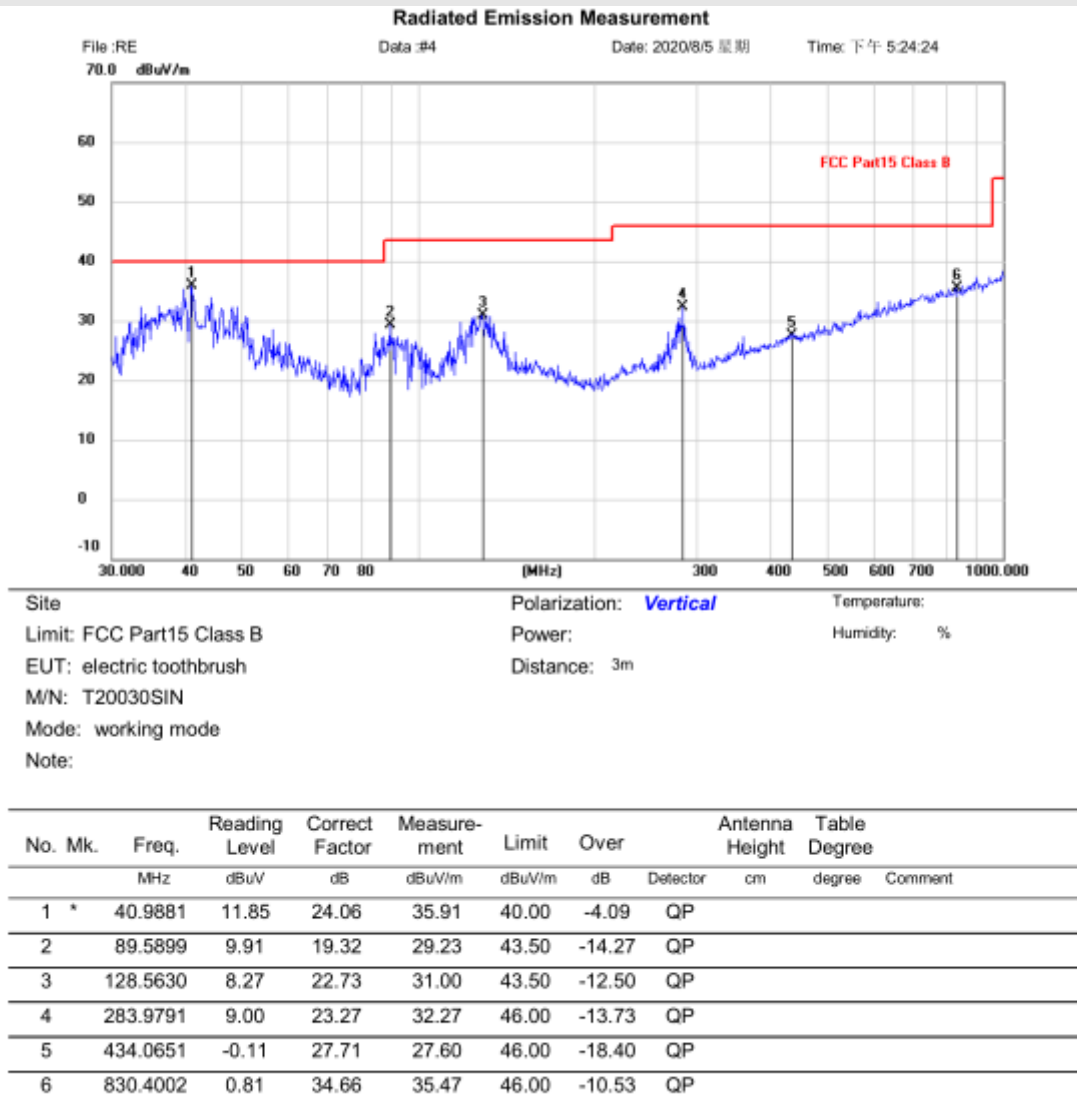


PROCEDURE

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

[TestMode: Working]; [Polarity: Vertical]

Power: AC120V/60Hz



Test Result: Pass

APPENDIX A: PHOTOGRAPHS OF TEST SETUP

Conducted Emissions at Mains Terminals (150kHz-30MHz)



Radiated Emissions (30MHz-1GHz)



APPENDIX B: PHOTOGRAPHS OF EUT

Reference to the test report No. BLA-EMC-202007-A6401

----END OF REPORT----

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