

FCC REPORT

Applicant: Wavee Group Inc.

Address of Applicant: 232 Manning Avenue, Toronto, Ontario, M6J 2K7, Canada

Equipment Under Test (EUT)

Product Name: WAVEE W-1 Electric Toothbrush Speaker System

Model No.: W1BTS

FCC ID: 2AW2XW1BTS

Applicable standards: FCC CFR Title 47 Part 15 Subpart C Section 15.209

Date of sample receipt: 13 Jul., 2020

Date of Test: 14 Jul., to 20 Aug., 2020

Date of report issue: 21 Aug., 2020

Test Result: PASS*

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

Authorized Signature:



Bruce Zhang
Laboratory Manager

This report details the results of the testing carried out on one sample. The results contained in this test report do not relate to other samples of the same product and does not permit the use of the CCIS product certification mark. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

This report may only be reproduced and distributed in full. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards.

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2 Version

Version No.	Date	Description
00	21 Aug., 2020	Original

Tested By: YT Yang **Date:** 21 Aug., 2020
Test Engineer

Reviewed By: Winner Zhang **Date:** 21 Aug., 2020
Project Engineer

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4 Test Summary

Test Item	Section in CFR 47	Result
Spurious emissions	15.209	Pass
20dB Bandwidth	15.215(c)	Pass
Conducted Emission	15.207	Pass
<p>Remark:</p> <ol style="list-style-type: none"> 1. Pass: The EUT complies with the essential requirements in the standard. 2. The cable insertion loss used by "RF Output Power" and other conduction measurement items is 0.5dB (provided by the customer). 		
Test Method:	ANSI C63.10-2013	

5 General Information

5.1 Client Information

Applicant:	Wavee Group Inc.
Address:	232 Manning Avenue, Toronto, Ontario, M6J 2K7, Canada
Manufacturer/Factory:	Wavee Group Inc.
Address:	232 Manning Avenue, Toronto, Ontario, M6J 2K7, Canada
Factory:	SHENZHEN YINHONG ELECTRONICS CO., LTD
Address:	2nd floor 2# building Hongzhu Yongqi Techno park, lezhujiao village, xixiang Baoan district, Shenzhen

5.2 General Description of E.U.T.

Product Name:	WAVEE W-1 Electric Toothbrush Speaker System
Model No.:	W1BTS
Operation Frequency:	110.00kHz~125.00kHz
Modulation type:	PWM
Antenna Type:	Coil Antenna
Test Sample Condition:	The test samples were provided in good working order with no visible defects.
Power supply:	Model: W&T-AD1812B050200UU Input: AC100-240V, 50/60Hz, 0.35A Output: DC 5.0V, 2A

5.3 Test mode and test samples plans

Transmitting mode:	Keep the EUT in transmitting mode with modulation
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5.4 Description of Support Units

Manufacturer	Description	Model	S/N	FCC ID/DoC
Wavee Group Inc.	electric toothbrush	W1ETB	N/A	N/A

5.5 Measurement Uncertainty

Parameter	Expanded Uncertainty (Confidence of 95%)
Conducted Emission (9kHz ~ 30MHz)	±1.60 dB
Radiated Emission (9kHz ~ 30MHz)	±3.12 dB
Radiated Emission (30MHz ~ 1000MHz)	±4.32 dB
Radiated Emission (1GHz ~ 18GHz)	±5.16 dB
Radiated Emission (18GHz ~ 26.5GHz)	±3.20 dB

5.6 Additions to, deviations, or exclusions from the method

No

5.7 Laboratory Facility

<p>The test facility is recognized, certified, or accredited by the following organizations:</p> <ul style="list-style-type: none"> ● FCC - Designation No.: CN1211 Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Registration No. is 727551. ● ISED – CAB identifier.: CN0021 The 3m Semi-anechoic chamber of Shenzhen Zhongjian Nanfang Testing Co., Ltd. has been Registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 10106A-1. ● A2LA - Registration No.: 4346.01 This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 General requirements for the competence of testing and calibration laboratories. The test scope can be found as below link: https://portal.a2la.org/scopepdf/4346-01.pdf
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5.8 Laboratory Location

<p>Shenzhen Zhongjian Nanfang Testing Co., Ltd. Address: No.110~116, Building B, Jinyuan Business Building, Xixiang Road, Bao'an District, Shenzhen, Guangdong, China Tel: +86-755-23118282, Fax: +86-755-23116366 Email: info@ccis-cb.com, Website: http://www.ccis-cb.com</p>
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5.9 Test Instruments list

Radiated Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
3m SAC	SAEMC	9m*6m*6m	966	07-22-2017	07-21-2020
				07-22-2020	07-21-2021
BiConiLog Antenna	SCHWARZBECK	VULB9163	497	03-07-2020	03-06-2021
Horn Antenna	SCHWARZBECK	BBHA9120D	916	03-07-2020	03-06-2021
Loop Antenna	SCHWARZBECK	FMZB 1519 B	00044	03-07-2020	03-06-2021
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A
Pre-amplifier	HP	8447D	2944A09358	03-07-2020	03-06-2021
Pre-amplifier	CD	PAP-1G18	11804	03-07-2020	03-06-2021
Spectrum analyzer	Rohde & Schwarz	FSP30	101454	03-05-2020	03-04-2021
EMI Test Receiver	Rohde & Schwarz	ESRP7	101070	03-05-2020	03-04-2021
Simulated Station	Anritsu	MT8820C	6201026545	03-07-2020	03-06-2021
Cable	ZDECL	Z108-NJ-NJ-81	1608458	03-07-2020	03-06-2021
Cable	MICRO-COAX	MFR64639	K10742-5	03-07-2020	03-06-2021
Cable	SUHNER	SUCOFLEX100	58193/4PE	03-07-2020	03-06-2021

Conducted Emission:					
Test Equipment	Manufacturer	Model No.	Serial No.	Cal. Date (mm-dd-yy)	Cal. Due date (mm-dd-yy)
EMI Test Receiver	Rohde & Schwarz	ESCI	101189	03-05-2020	03-04-2021
Pulse Limiter	SCHWARZBECK	OSRAM 2306	9731	03-05-2020	03-04-2021
LISN	CHASE	MN2050D	1447	03-05-2020	03-04-2021
LISN	Rohde & Schwarz	ESH3-Z5	8438621/010	07-21-2017	07-20-2020
				07-21-2020	07-20-2021
Cable	HP	10503A	N/A	03-05-2020	03-04-2021
EMI Test Software	AUDIX	E3	6.110919b	N/A	N/A

6 Test results and Measurement Data

6.1 Antenna requirement

Standard requirement:	FCC Part15 C Section 15.203
<p>15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p>	
E.U.T Antenna:	Coil antenna

6.2 Radiated Emission

Test Requirement:	FCC Part15 C Section 15.209				
Test Frequency Range:	9kHz to 1000MHz				
Test site:	Measurement Distance: 3m(Semi-Anechoic Chamber)				
Receiver setup:	Frequency	Detector	RBW	VBW	Remark
	9kHz-150kHz	Quasi-peak	200Hz	600Hz	Quasi-peak Value
	150kHz-30MHz	Quasi-peak	9kHz	30kHz	Quasi-peak Value
	30MHz-1GHz	Quasi-peak	120kHz	300kHz	Quasi-peak Value
	Above 1GHz	Peak	1MHz	3MHz	Peak Value
Limit:	Frequency (MHz)	Limit (uV/m @3m)		Distance (m)	
	0.009-0.490	2400/F(kHz)		300	
	0.490-1.705	24000/F(kHz)		30	
	1.705-30	30		30	
	30-88	100		3	
	88-216	150		3	
	216-960	200		3	
	Above 1GHz	500		3	
Test Procedure:	<p>a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.</p> <p>b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.</p> <p>c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.</p> <p>d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotating table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p>				
Test setup:	9kHz-30MHz				
	<p>The diagram illustrates the test setup for the 9kHz-30MHz frequency range. An EUT (Equipment Under Test) is placed on a turn table that is 0.8 meters above the ground plane. The turn table is rotated 360 degrees to find the maximum radiation. The EUT is positioned 3 meters away from the search antenna. The search antenna is mounted on an antenna tower that can be adjusted in height from 1 meter to 4 meters above the ground. The search antenna is connected to an RF test receiver, which is used to measure the field strength. The ground plane is indicated by a hatched area at the bottom of the diagram.</p>				
	30MHz-1GHz				

<p>Test Instruments:</p>	<p>Refer to section 5.9 for details</p>
<p>Test mode:</p>	<p>Refer to section 5.3 for details</p>
<p>Test results:</p>	<p>Pass</p>
<p>Remark:</p>	<p>The emission levels of above 1 GHz are very lower than the limit and not show in test report.</p>

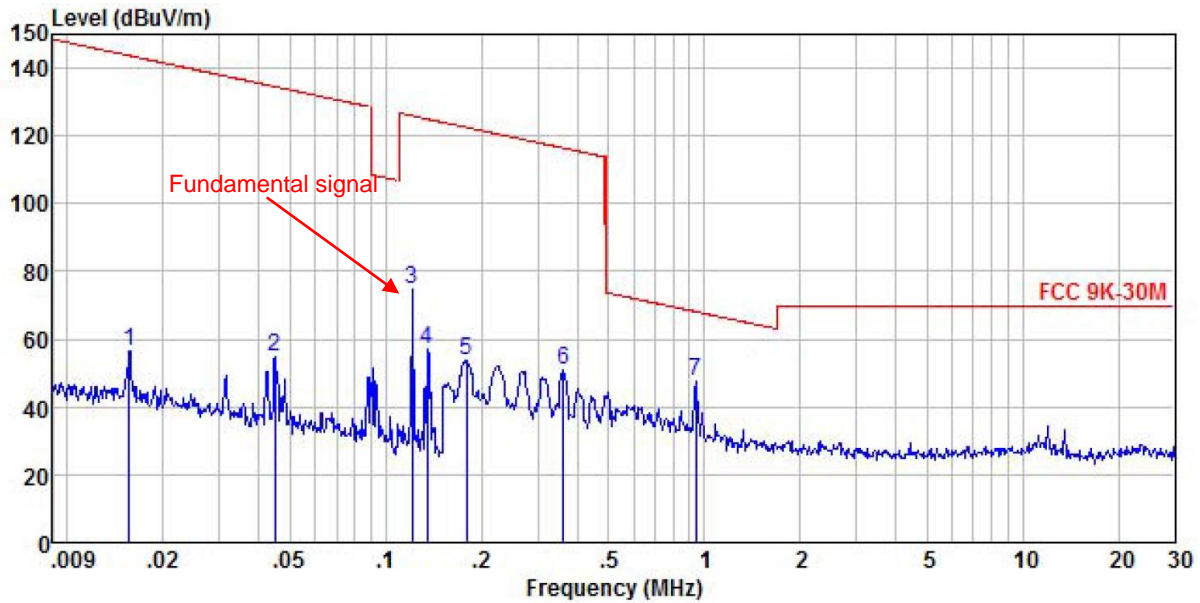
Measurement Data:

a) Fundamental field strength

Peak value				
Test Polarization	Frequency (kHz)	H-field@3m (dBμV)	Limit@3m (dBμV)	Result
Horizontal	119.9	73.65	126.03	Pass
Vertical	119.9	71.42	126.06	Pass
Average value				
Test Polarization	Frequency (kHz)	H-field@3m (dBμV)	Limit@3m (dBμV)	Result
Horizontal	119.9	66.95	106.03	Pass
Vertical	119.9	63.47	106.03	Pass

**b) Radiated spurious:
Below 1GHz:**

Product Name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test By:	YT	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%

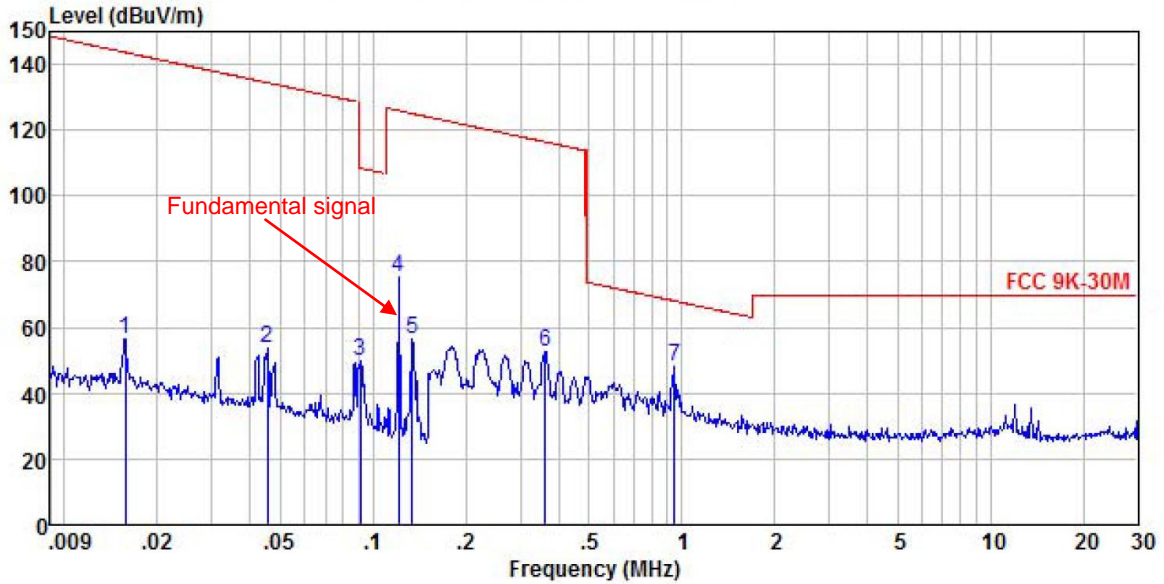


	Read Freq	Antenna Level	Cable Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	0.016	36.13	20.38	0.01	0.00	0.00	56.52	143.71	-87.19	Peak
2	0.045	34.18	20.52	0.02	0.00	0.00	54.72	134.55	-79.83	Peak
3	0.121	54.39	20.08	0.02	0.00	0.00	74.49	126.00	-51.51	Peak
4	0.135	36.75	19.98	0.03	0.00	0.00	56.76	125.01	-68.25	Peak
5	0.180	33.50	20.29	0.04	0.00	0.00	53.83	122.54	-68.71	Peak
6	0.361	30.13	20.64	0.06	0.00	0.00	50.83	116.47	-65.64	Peak
7	0.939	26.75	20.53	0.11	0.00	0.00	47.39	68.16	-20.77	Peak

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test By:	YT	Test mode:	Charing mode
Test Frequency:	9kHz~30MHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Humi: 57%

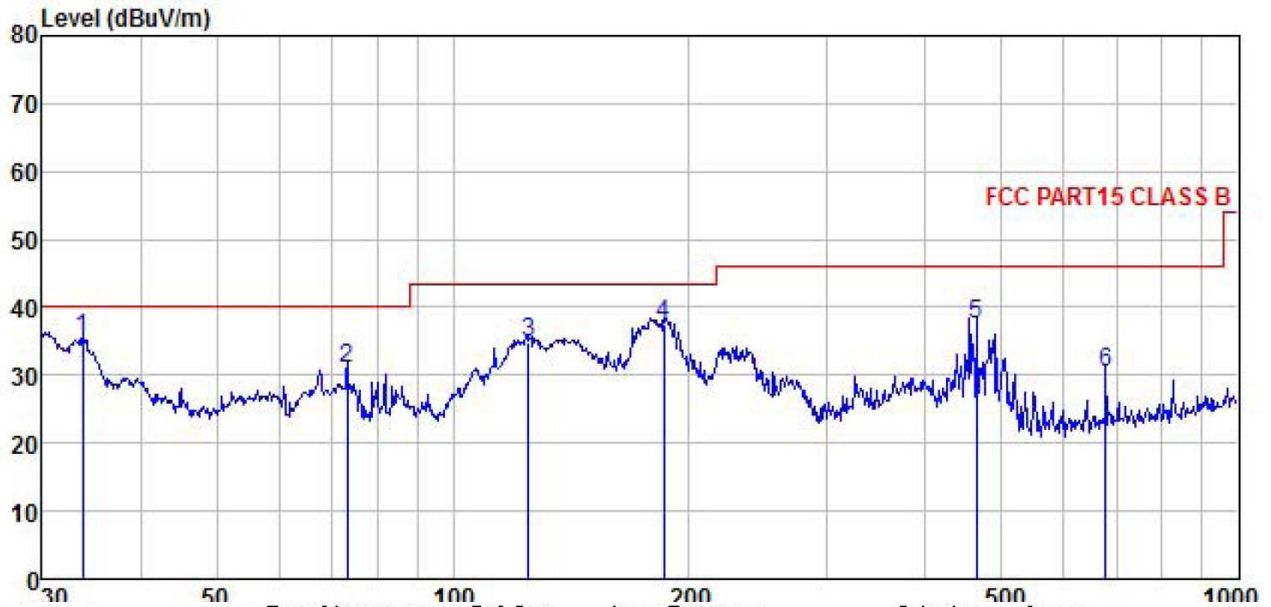


	Freq	ReadAntenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	0.016	35.90	20.38	0.01	0.00	56.29	143.64	-87.35	Peak
2	0.046	32.95	20.53	0.02	0.00	53.50	134.41	-80.91	Peak
3	0.091	29.02	20.68	0.02	0.00	49.72	108.42	-58.70	Peak
4	0.121	55.05	20.08	0.02	0.00	75.15	126.00	-50.85	Peak
5	0.134	36.54	19.97	0.03	0.00	56.54	125.08	-68.54	Peak
6	0.361	32.07	20.64	0.06	0.00	52.77	116.47	-63.70	Peak
7	0.947	27.43	20.52	0.11	0.00	48.06	68.09	-20.03	Peak

Remark:

- Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor.
- The emission levels of other frequencies are very lower than the limit and not show in test report.

Product Name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test By:	YT	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Vertical
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Huni: 57%

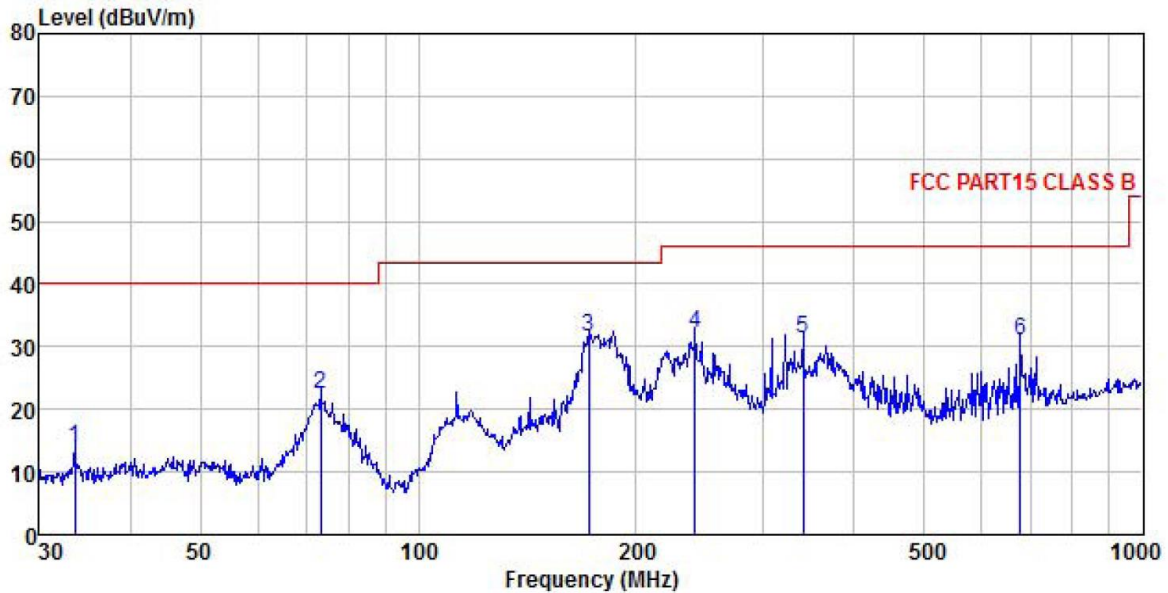


	Read	Antenna	Cable	Aux	Preamp	Level	Limit	Over	Remark
Freq	Level	Factor	Loss	Factor	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	33.799	52.56	12.42	0.35	0.00	29.96	35.37	40.00	-4.63 QP
2	73.359	49.11	11.06	0.45	0.00	29.69	30.93	40.00	-9.07 QP
3	125.007	52.07	11.40	0.58	0.00	29.36	34.69	43.50	-8.81 QP
4	185.788	48.43	17.23	0.69	0.00	28.93	37.42	43.50	-6.08 QP
5	463.970	46.06	19.26	1.06	0.00	28.89	37.49	46.00	-8.51 QP
6	677.580	37.39	20.33	1.30	0.00	28.72	30.30	46.00	-15.70 QP

Remark:

1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Pre-amplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

Product Name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test By:	YT	Test mode:	Charing mode
Test Frequency:	30 MHz ~ 1 GHz	Polarization:	Horizontal
Test Voltage:	AC 120V/60Hz	Environment:	Temp: 24°C Humi: 57%



	Read Freq	Antenna Level	Antenna Factor	Cable Loss	Aux Factor	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dB	dBuV/m	dBuV/m	dB	
1	33.562	31.22	12.38	0.36	0.00	29.96	14.00	40.00	-26.00	QP
2	73.359	40.64	11.06	0.45	0.00	29.69	22.46	40.00	-17.54	QP
3	171.995	43.42	16.61	0.66	0.00	29.03	31.66	43.50	-11.84	QP
4	240.830	41.54	18.47	0.76	0.00	28.59	32.18	46.00	-13.82	QP
5	339.589	40.05	18.78	0.92	0.00	28.54	31.21	46.00	-14.79	QP
6	677.580	37.96	20.33	1.30	0.00	28.72	30.87	46.00	-15.13	QP

Remark:

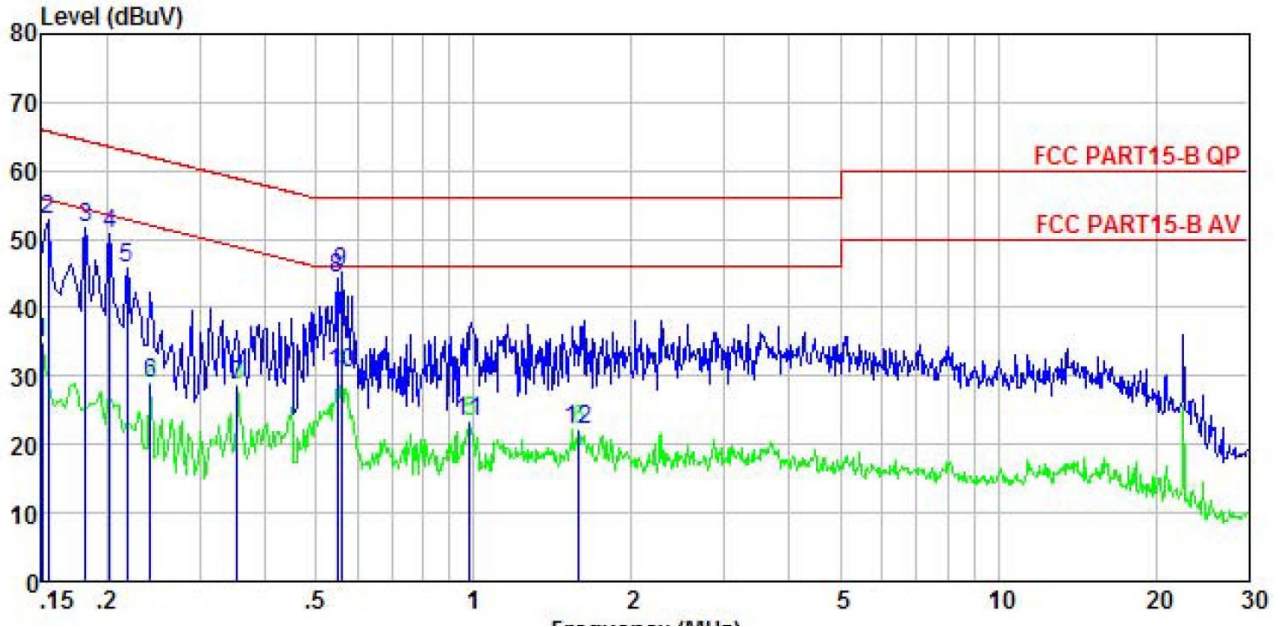
1. Final Level = Receiver Read level + Antenna Factor + Cable Loss + Aux Factor – Preamplifier Factor.
2. The emission levels of other frequencies are very lower than the limit and not show in test report.
3. The Aux Factor is a notch filter switch box loss, this item is not used.

6.3 Conducted Emission

Test Requirement:	FCC Part 15 B Section 15.207		
Test Frequency Range:	150kHz to 30MHz		
Class / Severity:	Class B		
Receiver setup:	RBW=9kHz, VBW=30kHz		
Limit:	Frequency range (MHz)	Limit (dB μ V)	
		Quasi-peak	Average
	0.15-0.5	66 to 56*	56 to 46*
	0.5-5	56	46
	0.5-30	60	50
* Decreases with the logarithm of the frequency.			
Test setup:	<p><i>Remark</i> E.U.T: Equipment Under Test LISN: Line Impedance Stabilization Network Test table height=0.8m</p>		
Test procedure	<ol style="list-style-type: none"> 1. The E.U.T and simulators are connected to the main power through a line impedance stabilization network(L.I.S.N.). The provide a 50ohm/50uH coupling impedance for the measuring equipment. 2. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refers to the block diagram of the test setup and photographs). 3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2014 on conducted measurement. 		
Test environment:	Temp.:	23 °C	Humid.: 56% Press.: 101kPa
Test Instruments:	Refer to section 5.9 for details		
Test mode:	Refer to section 5.3 for details		
Test results:	Pass		

Measurement data:

Product name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test by:	YT	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Line
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%

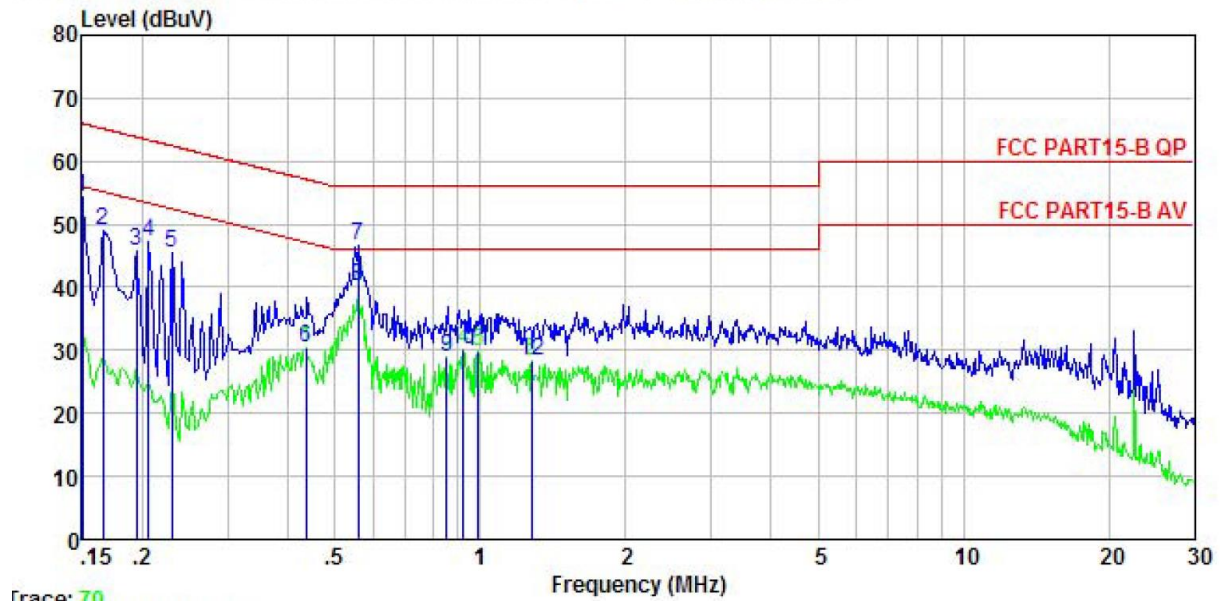


	Read	LISN	Cable	Aux	Limit	Over		
Freq	Level	Factor	Loss	Factor	Level	Line	Limit	Remark
MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	24.65	-0.57	10.78	-0.05	34.81	56.00	-21.19 Average
2	0.154	42.69	-0.57	10.78	-0.06	52.84	65.78	-12.94 QP
3	0.182	41.56	-0.58	10.77	-0.12	51.63	64.42	-12.79 QP
4	0.202	40.66	-0.59	10.76	-0.16	50.67	63.54	-12.87 QP
5	0.219	35.84	-0.58	10.76	-0.18	45.84	62.88	-17.04 QP
6	0.242	18.88	-0.57	10.75	-0.21	28.85	52.04	-23.19 Average
7	0.354	18.20	-0.51	10.73	0.14	28.56	48.87	-20.31 Average
8	0.549	34.46	-0.46	10.76	-0.36	44.40	56.00	-11.60 QP
9	0.558	35.28	-0.46	10.76	-0.37	45.21	56.00	-10.79 QP
10	0.558	20.46	-0.46	10.76	-0.37	30.39	46.00	-15.61 Average
11	0.984	12.67	-0.62	10.87	0.42	23.34	46.00	-22.66 Average
12	1.585	11.85	-0.55	10.93	-0.05	22.18	46.00	-23.82 Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

Product name:	WAVEE W-1 Electric Toothbrush Speaker System	Product Model:	W1BTS
Test by:	YT	Test mode:	Charing mode
Test frequency:	150 kHz ~ 30 MHz	Phase:	Neutral
Test voltage:	AC 120 V/60 Hz	Environment:	Temp: 22.5°C Huni: 55%



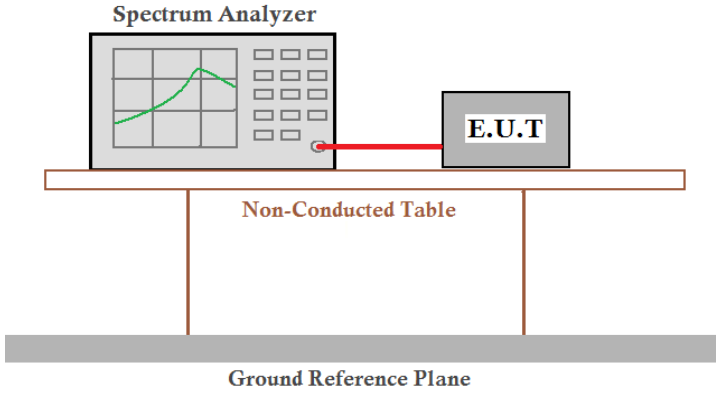
Trace: 70

	Read Freq	Read Level	LISN Factor	Cable Loss	Aux Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB	dB	dB	dBuV	dBuV	dB	
1	0.150	44.21	-0.69	10.78	0.01	54.31	66.00	-11.69	QP
2	0.166	38.83	-0.68	10.77	0.01	48.93	65.16	-16.23	QP
3	0.194	35.73	-0.67	10.76	0.00	45.82	63.84	-18.02	QP
4	0.206	37.12	-0.67	10.76	0.00	47.21	63.36	-16.15	QP
5	0.230	35.26	-0.67	10.75	0.00	45.34	62.44	-17.10	QP
6	0.435	20.27	-0.64	10.73	-0.03	30.33	47.15	-16.82	Average
7	0.558	36.46	-0.65	10.76	0.03	46.60	56.00	-9.40	QP
8	0.558	30.13	-0.65	10.76	0.03	40.27	46.00	-5.73	Average
9	0.853	18.64	-0.66	10.83	0.06	28.87	46.00	-17.13	Average
10	0.923	19.74	-0.67	10.85	0.07	29.99	46.00	-16.01	Average
11	0.989	19.50	-0.68	10.87	0.08	29.77	46.00	-16.23	Average
12	1.276	17.95	-0.69	10.90	0.11	28.27	46.00	-17.73	Average

Notes:

1. An initial pre-scan was performed on the line and neutral lines with peak detector.
2. Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission.
3. Final Level = Receiver Read level + LISN Factor + Cable Loss.

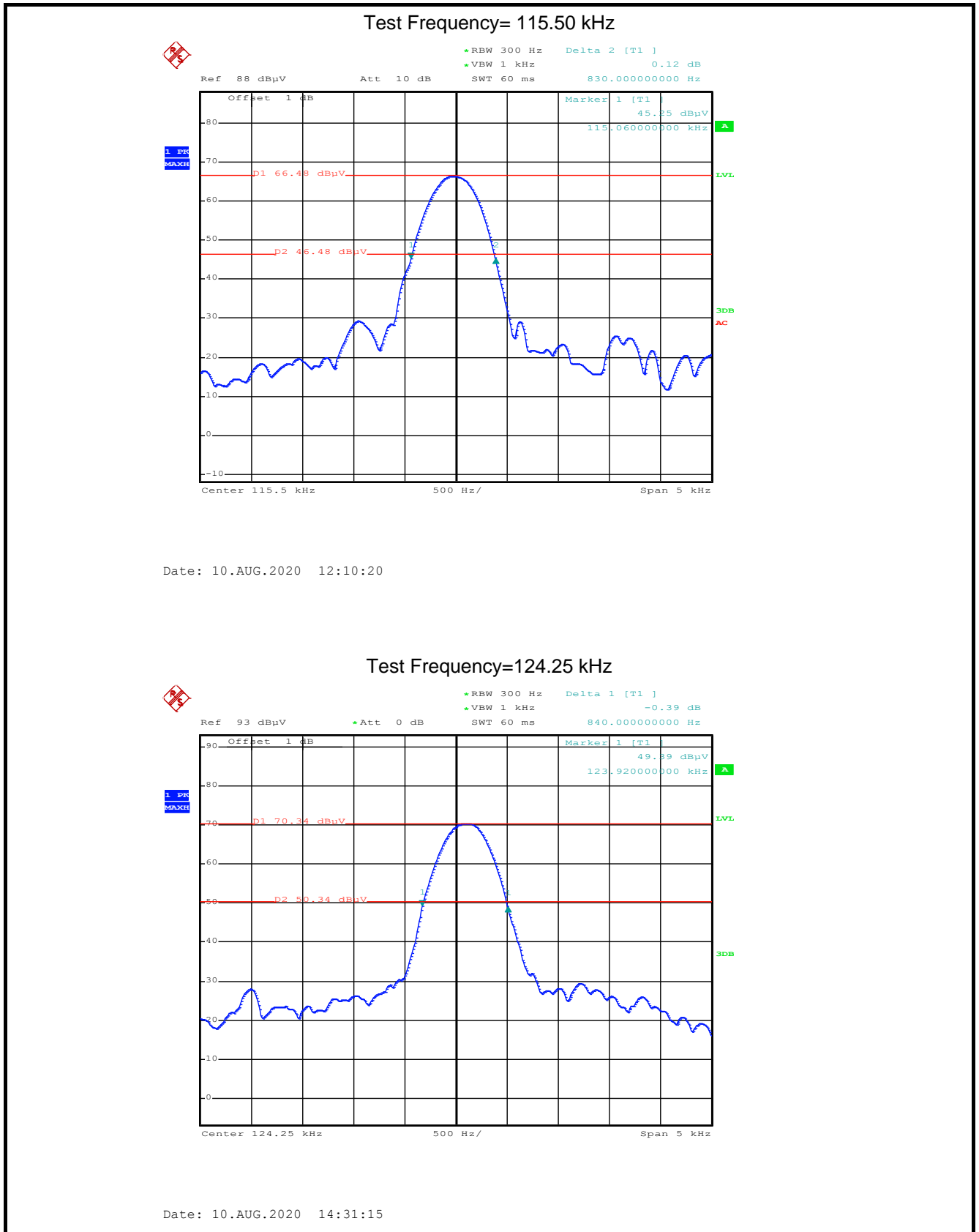
6.4 20dB Bandwidth

Test Requirement:	FCC Part15 C Section 15.215 (c)
Receiver setup:	RBW=1 kHz, VBW=3 kHz, detector: Peak
Limit:	The fundamentalemission be kept within atleast the central 80% of the permittedband
Test Procedure:	<ol style="list-style-type: none"> 1. According to the follow Test-setup, keep the relative position between the artificial antenna and the EUT. 2. Set the EUT to proper test channel. 3. Max hold the radiated emissions, mark the peak power frequency point and the -20dB upper and lower frequency points. 4. Read 20dB bandwidth.
Test setup:	 <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected to an E.U.T. (Equipment Under Test) via a red cable. Both are placed on a Non-Conducted Table, which is positioned above a Ground Reference Plane.</p>
Test Instruments:	Refer to section 5.9 for details
Test mode:	Refer to section 5.3 for details
Test results:	Passed

Measurement Data

20dB bandwidth (kHz)	Limits
0.83	N/A
0.84	
<i>Remark: For report purpose only.</i>	

Test plot as follows:



Test Frequency=124.25 kHz