Report No.: NTC2008003FV00

FCC ID: 2ATOY-B96



RADIO TEST REPORT

The device described below is tested by Dongguan Nore Testing Center Co., Ltd. to determine the maximum emission levels emanating from the device, the severe levels which the device can endure and E.U.T.'s performance criterion. The test results, data evaluation, test procedures, and equipment of configurations shown in this report were made in accordance with the procedures in ANSI C63.10(2013).

Applicant / Manufacturer: Dongguan Fulun Electronics Co., Limited

Address : 4-8/F, Building B, Xinbosheng Industrial Park, No.5 Xinyuan S Rd, Tangxia,

Dongguan, China

Factory : Dongguan Fulun Electronics Co., Limited

Address : 4-8/F, Building B, Xinbosheng Industrial Park, No.5 Xinyuan S Rd, Tangxia,

Dongguan, China

E.U.T. : Jack Bluetooth Speaker and Wireless Charging Pad

Brand Name : N/A

Model No. : B96

FCC ID : 2ATOY-B96

Measurement Standard : FCC PART 15 Subpart C

Date of Receiver : August 04, 2020

Date of Test : Aguust 04, 2020 to August 10, 2020

Date of Report : August 10, 2020

This Test Report is Issued Under the Authority of :

Prepared by

Rose Hu / Engineer

Approver strom to igner

This test report is for the customer shown above and their specific product only. This report applies to above tested sample only and shall not be reproduced in part without written approval of Dongguan Nore Testing Center Co., Ltd.

Dongguan Nore Testing Center Co., Ltd. Report No.: NTC2008003FV00 FCC ID: 2ATOY-B96



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Dongguan Nore Testing Center Co., Ltd. Report No.: NTC2008003FV00 FCC ID: 2ATOY-B96



Revision History of This Test Report

Report Number	Description	Issued Date
NTC2008003FV00	Initial Issue	2020-08-10

FCC ID: 2ATOY-B96

Report No.: NTC2008003FV00



1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test

Product name : Jack Bluetooth Speaker and Wireless Charging

Pad

Main model : B96

Additional model : N/A

Model difference : N/A

Power Supply : Input: DC 5V come from USB port or

> DC 3.7V li-ion battery Output: DC 5V 1A, 5W Max

Test voltage : AC 120V 60Hz adapter input,

D 3.7V li-ion battery

Only the worst case was recorded in the report.

Adapter : N/A

Cable : USB Line: 0.53m unshielded

Software version : V1.0

Hardware version : V1.0

Serial number : 100000

Note : N/A

Remark : N/A

Frequency Range : 110.5-205KHz

Test frequency : 117.6KHz

Test output : DC 5V 1A, 5W Max

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1.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for FCC ID: **2ATOY-B96** filing to comply with FCC Part 15, Subpart C Rule.

1.3 Test Methodology

Both AC mains line-conducted and radiated emission measurements were performed according to the procedures in ANSI C63.10 (2013). Radiated emission measurement was performed in semi-anechoic chamber and conducted emission measurement was performed in shield room. For radiated emission measurement, preliminary scans were performed in the semi-anechoic chamber only to determine the worst case modes. All radiated tests were performed at an antenna to EUT distance of 3 meters.

1.4 Equipment Modifications

Not available for this EUT intended for grant.

1.5 Support Device

Adapter : Manufacturer: HUWEI

Model No.: HW-050200C01

Input: AC100-240V 50/60Hz, 0.5A

Output: DC5V 2A

Simulated Load : Provided by NTC Lab.

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1.6 Test Facility and Location

Site Description

EMC Lab: Listed by CNAS, August 13, 2018

The certificate is valid until August 13, 2024

The Laboratory has been assessed and proved to

be in compliance with CNAS/CL01

The Certificate Registration Number is L5795.

Listed by A2LA, November 01, 2017

The certificate is valid until December 31, 2021 The Laboratory has been assessed and proved to

be in compliance with ISO17025

The Certificate Registration Number is 4429.01

Listed by FCC, November 06, 2017 The Designation Number is CN1214 Test Firm Registration Number: 907417

Listed by Industry Canada, June 08, 2017

The Certificate Registration Number. Is 46405-9743

Name of Firm : Dongguan Nore Testing Center Co., Ltd.

(Dongguan NTC Co., Ltd.)

Site Location : Building D. Gaosheng Science and Technology

park, Hongtu road, Nancheng district, Dongguan

city, Guangdong province, China

1.7 Summary of Test Results

FCC Rules	Description Of Test	Uncertainty	Result
§15.35	20dB Bandwidth	±1.42 x10 ⁻⁴ %	Compliant
§15.207 (a)	AC Power Conducted Emission	±1.06dB	Compliant
§15.209	Radiated Emission	±3.70dB	Compliant

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2. System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 pecial Accessories

Not available for this EUT intended for grant.

2.3 Description of test modes

The EUT has been tested under operating condition. Test program used to control the EUT for staying in continuous transmitting and normal mode is programmed. The Lowest, middle and highest channel were chosen for testing.

2.4 EUT Exercise

The EUT was operated in the engineering mode to fix the Tx frequency that was for the purpose of the measurements.

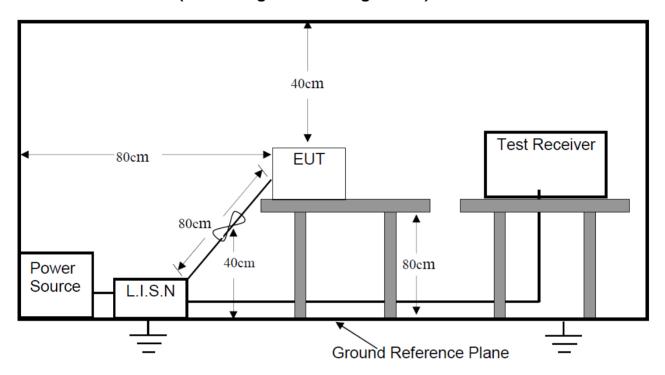
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3. Conducted Emissions Test

3.1 Test SET-UP (Block Diagram of Configuration)



3.2 Test Condition

Test Requirement: FCC Part 15.207

Frequency Range: 150KHz ~ 30MHz

Detector: RBW 9KHz, VBW 30KHz

Operation Mode: Full Load, Half Load, Empty Load

3.3 Measurement Results

Please refer to following plots of the worst case: Full Load.

FCC ID: 2ATOY-B96

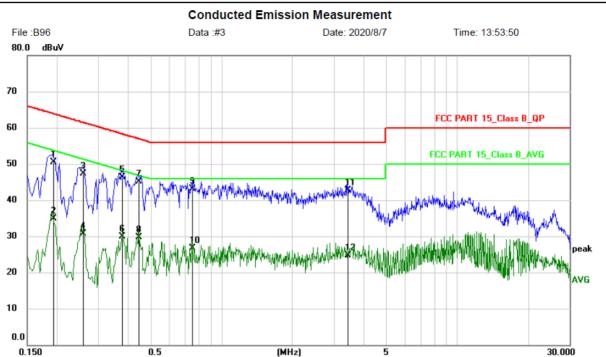




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 Site
 Phase:
 L1
 Temperature:
 26

 Limit:
 FCC PART 15_Class B_QP
 Power:
 AC120V/60Hz
 Humidity:
 50 %

EUT: Jack Bluetooth Speaker and Wireless Charging Pad

M/N: B96 Mode: TX Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1940	40.00	10.60	50.60	63.86	-13.26	QP	
2	0.1940	24.30	10.60	34.90	53.86	-18.96	AVG	
3	0.2580	36.80	10.60	47.40	61.50	-14.10	QP	
4	0.2580	20.10	10.60	30.70	51.50	-20.80	AVG	
5	0.3780	35.69	10.61	46.30	58.32	-12.02	QP	
6	0.3780	19.39	10.61	30.00	48.32	-18.32	AVG	
7 *	0.4460	34.58	10.62	45.20	56.95	-11.75	QP	
8	0.4460	19.18	10.62	29.80	46.95	-17.15	AVG	
9	0.7539	32.54	10.66	43.20	56.00	-12.80	QP	
10	0.7539	16.04	10.66	26.70	46.00	-19.30	AVG	
11	3.4340	31.99	10.71	42.70	56.00	-13.30	QP	
12	3.4340	13.99	10.71	24.70	46.00	-21.30	AVG	

FCC ID: 2ATOY-B96

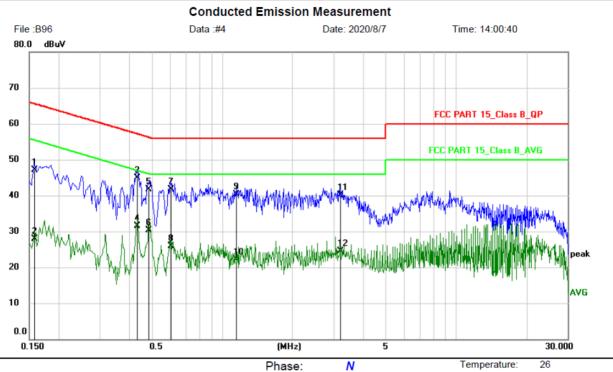




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Site Phase: N Temperature: 2
Limit: FCC PART 15 Class B QP Power: AC120V/60Hz Humidity: 50 %

EUT: Jack Bluetooth Speaker and Wireless Charging Pad

M/N: B96 Mode: TX Note:

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1	0.1580	36.50	10.60	47.10	65.57	-18.47	QP	
2	0.1580	17.40	10.60	28.00	55.57	-27.57	AVG	
3 *	0.4340	34.28	10.62	44.90	57.18	-12.28	QP	
4	0.4340	20.98	10.62	31.60	47.18	-15.58	AVG	
5	0.4860	31.17	10.63	41.80	56.24	-14.44	QP	
6	0.4860	19.77	10.63	30.40	46.24	-15.84	AVG	
7	0.6020	31.06	10.64	41.70	56.00	-14.30	QP	
8	0.6020	15.26	10.64	25.90	46.00	-20.10	AVG	
9	1.1500	29.70	10.70	40.40	56.00	-15.60	QP	
10	1.1500	11.50	10.70	22.20	46.00	-23.80	AVG	
11	3.1900	29.49	10.71	40.20	56.00	-15.80	QP	
12	3.1900	13.89	10.71	24.60	46.00	-21.40	AVG	

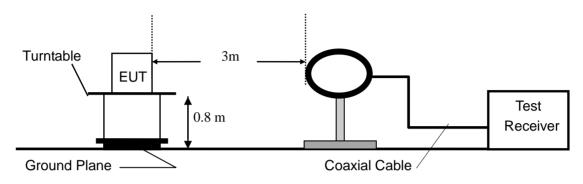
FCC ID: 2ATOY-B96

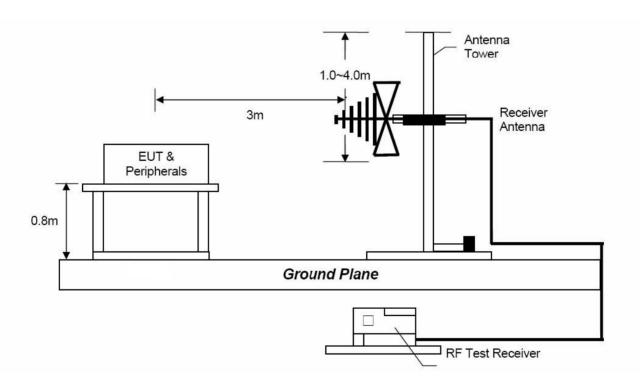


4. Radiated Emission Test

4.1 Test SET-UP (Block Diagram of Configuration)

4.1.1 Radiated Emission Test Set-Up, Frequency Below 30MHz



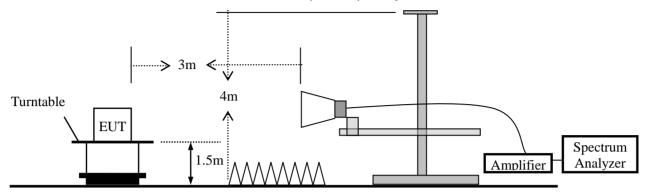


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4.1.2 Radiated Emission Test Set-Up, Frequency above 1GHz



4.2 Measurement Procedure

- a. Blow 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi- anechoic chamber room.
- b. For the radiated emission test above 1GHz:
 - The EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter full anechoic chamber room. The table was rotated 360 degrees to determine the position of the highest radiation. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- c. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The height of antenna 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.
- e. 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 rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to peak detect function and specified bandwidth with maximum hold mode.
- f. A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

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During the radiated emission test, the spectrum analyzer was set with the following configurations:

Frequency Band (MHz)	Level	Resolution Bandwidth	Video Bandwidth
30 to 1000	QP	120 kHz	300 kHz
Abovo 1000	Peak	1 MHz	3 MHz
Above 1000	Average	1 MHz	10 Hz

4.3 Limit

Frequency range	Distance Meters	Field Strengths Limit (15.209)
MHz		μV/m
0.009 ~ 0.490	300	2400/F(kHz)
0.490 ~ 1.705	30	24000/F(kHz)
1.705 ~ 30	30	30
30 ~ 88	3	100
88 ~ 216	3	150
216 ~ 960	3	200
Above 960	3	500

Remark: (1) Emission level (dB) μ V = 20 log Emission level μ V/m

- (2) The smaller limit shall apply at the cross point between two frequency bands.
- (3) As shown in 15.35(b), for frequencies above 1000MHz, the field strength limits are based on average detector, however, the peak field strength of any emission shall not exceed the maximum permitted average limits, specified above by more than 20dB under any condition of modulation.
- (4) The frequency range scanned is from the lowest radio frequency signal generated in the device which is greater than 9 kHz to the tenth harmonic of the highest fundamental frequency or 40 GHz, whichever is lower.

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Receiver Parameter	Setting
Attenuation	Auto
	9KHz~90KHz/ RB 200Hz for AV
	90KHz~110KHz/ RB 200Hz for QP
Start ~ Stop Frequency	110KHz~490KHz/ RB 200Hz for AV
, ,	490KHz~30MHz/ RB 9KHz for QP
	30MHz~1000MHz/ RB 120KHz for QP

FCC 15.209 (d) The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90KHz, 110-490KHz and above 1000MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

4.4 Measurement Results

Please refer to following plots of the worst case: Full Load.

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FCC ID: 2ATOY-B96

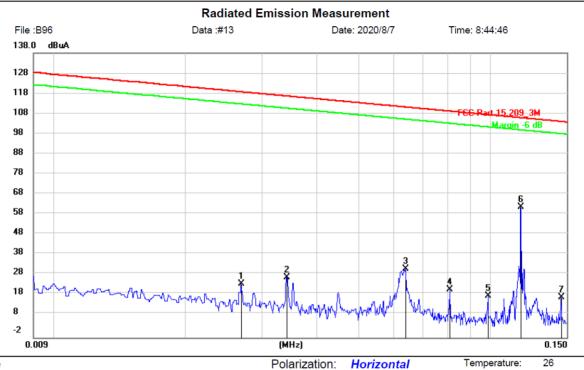




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Power:

Distance:

AC120V/60Hz

Humidity:

60 %

Site

Limit: FCC Part 15.209_3M EUT:

M/N: B96 Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over			
	MHz	dBuV	dB	dBuA	dBuA	dB	Detector		
1	0.0269	-7.74	32.26	24.52	118.87	-94.35	peak		
2	0.0342	-4.63	32.28	27.65	116.79	-89.14	peak		
3	0.0641	-0.63	32.29	31.66	111.37	-79.71	peak		
4	0.0807	-10.54	32.30	21.76	109.38	-87.62	peak		
5	0.0990	-13.73	32.31	18.58	107.61	-89.03	peak		
6 *	0.1175	29.84	32.30	62.14	106.13	-43.99	peak		
7	0.1456	-14.46	32.30	17.84	104.28	-86.44	peak		

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

FCC ID: 2ATOY-B96

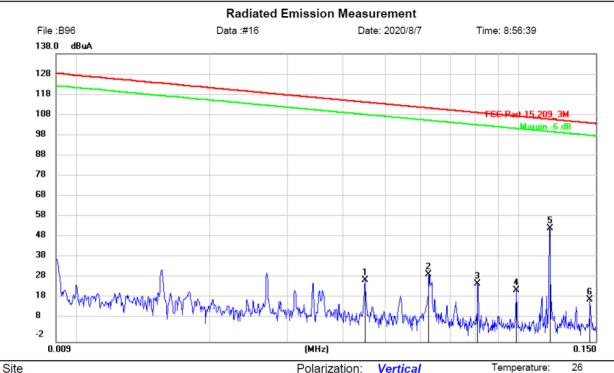




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Limit: FCC Part 15.209_3M

EUT:

M/N: B96

Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBu∨	dB	dBuA	dBuA	dB	Detector
1	0.0449	-4.60	32.36	27.76	114.44	-86.68	peak
2	0.0627	-1.71	32.30	30.59	111.56	-80.97	peak
3	0.0810	-6.23	32.30	26.07	109.35	-83.28	peak
4	0.0990	-9.12	32.31	23.19	107.61	-84.42	peak
5 *	0.1178	20.81	32.30	53.11	106.11	-53.00	peak
6	0.1454	-13.84	32.30	18.46	104.29	-85.83	peak

Power:

Distance:

AC120V/60Hz

Humidity:

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

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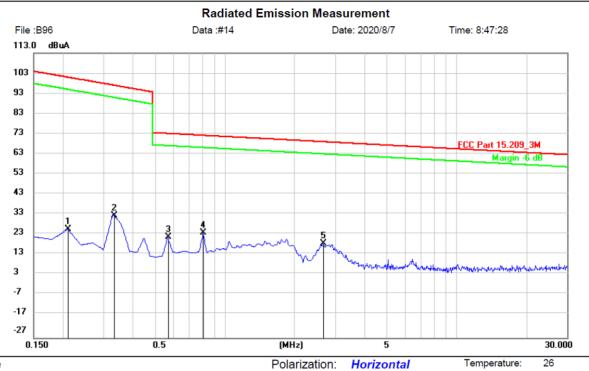
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Site

Limit: FCC Part 15.209 3M

M/N: B96

EUT:

Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad

No. Mk	<u>'</u>	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuA	dBuA	dB	Detector
1	0.2096	-5.80	32.28	26.48	101.13	-74.65	peak
2	0.3337	0.81	32.25	33.06	97.12	-64.06	peak
3	0.5677	-9.78	32.21	22.43	73.41	-50.98	peak
4 *	0.8065	-7.55	32.18	24.63	72.49	-47.86	peak
5	2.6573	-12.78	32.17	19.39	69.35	-49.96	peak

Power:

Distance:

AC120V/60Hz

Humidity:

60 %

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.

FCC ID: 2ATOY-B96



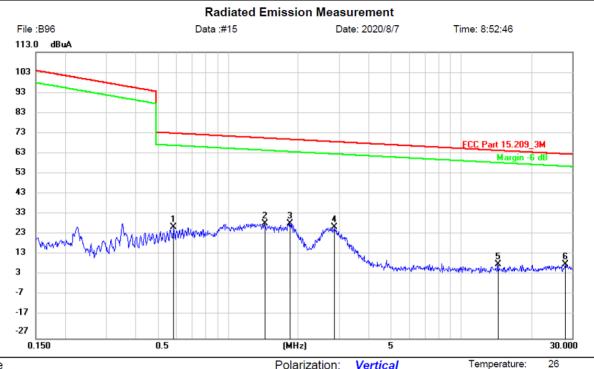
60 %



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Site Polarization: Vertical Temperate Limit: FCC Part 15.209_3M Power: AC120V/60Hz Humidity:

EUT: Distance:

M/N: B96 Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad:

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuA	dBuA	dB	Detector
1		0.5854	-4.72	32.21	27.49	73.33	-45.84	4 peak
2		1.4333	-2.97	32.17	29.20	70.97	-41.77	7 peak
3	*	1.8386	-2.99	32.17	29.18	70.32	-41.14	4 peak
4		2.8540	-4.78	32.17	27.39	69.16	-41.77	7 peak
5		14.3641	-22.95	32.33	9.38	64.91	-55.53	3 peak
6		28.0031	-23.12	32.35	9.23	63.15	-53.92	2 peak

Note: When the PEAK level was below the limit of AV level, the AV levels were considered to meet the requirements.



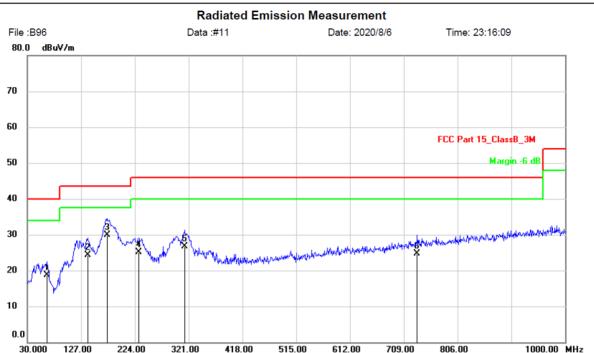




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Site

Limit: FCC Part 15_ClassB_3M EUT:

M/N: B96 Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad

26 Temperature: Horizontal Polarization: AC120V/60Hz Power: Humidity: 47 %

Distance: 3m

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBu∀	dB	dBuV/m	dBuV/m	dB	Detector
1		65.8900	26.54	-7.90	18.64	40.00	-21.36	QP
2		138.6400	35.21	-10.90	24.31	43.50	-19.19	QP
3	*	173.5600	39.72	-9.75	29.97	43.50	-13.53	QP
4		230.7900	32.02	-6.93	25.09	46.00	-20.91	QP
5		313.2400	31.84	-5.16	26.68	46.00	-19.32	QP
6		733.2500	21.95	2.76	24.71	46.00	-21.29	QP

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Radiated Emission Measurement File:B96 Data:#12 Date: 2020/8/6 Time: 23:25:07 80.0 dBuV/m 70 60 FCC Part 15_ClassB_3M 50 Margin -6 dB 40 30 20 10 0.0 30.000 127.00 224.00 321.00 418.00 515.00 612.00 709.00 806.00 1000.00 MHz

Site Polarization: Vertical Temperature: 26 Limit: FCC Part 15_ClassB_3M Power: AC120V/60Hz Humidity: 47 %

EUT: Distance: 3m

M/N: B96 Mode: TX

Note: EUT: Jack Bluetooth Speaker and Wireless Charging Pad

No. N	Иk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBu∨	dB	dBuV/m	dBuV/m	dB	Detector	
1		41.6400	33.42	-7.78	25.64	40.00	-14.36	QP	
2		65.8900	33.95	-9.63	24.32	40.00	-15.68	QP	
3		100.8100	30.63	-8.54	22.09	43.50	-21.41	QP	
4 *	k .	130.8800	40.97	-11.29	29.68	43.50	-13.82	QP	
5		170.6500	35.63	-10.23	25.40	43.50	-18.10	QP	
6		873.9000	19.96	4.92	24.88	46.00	-21.12	QP	

FCC ID: 2ATOY-B96



5. 20dB Bandwidth

5.1 Measurement Procedure

Maximum 20dB RF Bandwidth, FCC Rule 15.35:

The antenna port of the EUT was connected to the input of a spectrum analyzer. Analyzer RBW was chosen so that the display was a result of the hopping channel modulation. For each RF output channel investigated, the spectrum analyzer center frequency was set to the channel carrier. Use the spectrum 20dB down delta function to measure the bandwidth.

5.2 Test SET-UP (Block Diagram of Configuration)



5.3 Measurement Results

Refer to attached data chart.

RBW: 200Hz VBW: 1KHz
Test By: Sance Spectrum Detector: PK

Temperature: 24 °C Test Date: August 07, 2020

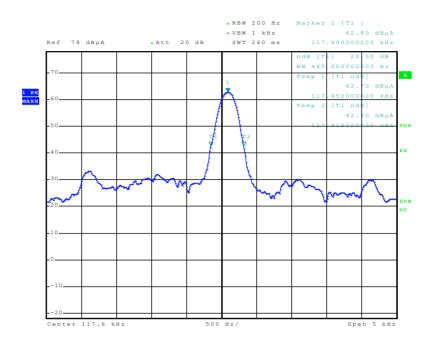
Test Result: PASS Humidity: 50 %

Channel frequency (KHz)	20dB Down BW(Hz)			
117.6	465			

FCC ID: 2ATOY-B96



Test Channel



Date: 7.AUG.2020 08:32:54

FCC ID: 2ATOY-B96

NTC Nore Testing Center

6. Antenna Application

6.1 Antenna requirement

According to of FCC part 15C section 15.203 and 15.240:

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.

6.2 Measurement Results

The antenna is coil antenna that no antenna other than furnished by the responsible party shall be used with the device, and the best case gain of the antenna is 0dBi, So, the antenna is consider meet the requirement.

FCC ID: 2ATOY-B96



7. Test Equipment List

Item	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
1.	Test Receiver	Rohde & Schwarz	ESCI7	100837	Mar. 13, 2020	1 Year
2.	Antenna	Schwarzbeck	VULB9162	9162-010	Mar. 23, 2020	1 Year
3.	Spectrum Analyzer	Rohde & Schwarz	FSU26	200409/026	Mar. 13, 2020	1 Year
4.	Spectrum Analyzer	Keysight	N9020A	MY54200831	Mar. 13, 2020	1 Year
5.	Spectrum Analyzer	Rohde & Schwarz	FSV40	101094	Mar. 13, 2020	1 Year
6.	Horn Antenna	Schwarzbeck	BBHA9170	9170-172	Mar. 22, 2019	2 Year
7.	Power Sensor	DARE	RPR3006W	15I00041SNO 64	Mar. 13, 2020	1 Year
8.	Power Sensor	DARE	RPR3006W	15I00041SNO 88	Mar. 13, 2020	1 Year
9.	Communication Tester	Rohde & Schwarz	CMW500	149004	Mar. 13, 2020	1 Year
10.	Horn Antenna	COM-Power	AH-118	071078	Mar. 23, 2020	1 Year
11.	Pre-Amplifier	HP	HP 8449B	3008A00964	Mar. 13, 2020	1 Year
12.	Pre-Amplifier	HP	HP 8447D	1145A00203	Mar. 13, 2020	1 Year
13.	Loop Antenna	Schwarzbeck	FMZB 1513	1513-272	Mar. 23, 2020	1 Year
14	Test Receiver	Rohde & Schwarz	ESCI	101152	Mar. 14, 2020	1 Year
15	L.I.S.N	Rohde & Schwarz	ENV 216	101317	Mar. 13, 2020	1 Year
16.	L.I.S.N	Rohde & Schwarz	ESH2-Z5	893606/014	Mar. 13, 2020	1 Year
17	RF Switching Unit	Compliance Direction Systems Inc.	RSU-M2	38311	Mar.13, 2020	1 Year
18.	Temperature & Humidity Chamber	REMAFEE	SYHR225L	N/A	Mar. 13, 2020	1 Year
19.			MY8811	N/A	Mar. 13, 2020	1 Year
20.	Temporary antenna connector	TESCOM	SS402	N/A	N/A	N/A
21.	. Chamber SAEMC		9*7*7m	N/A	Jun. 20, 2019	2 Year
22.	Test Software	EZ	EZ_EMC	N/A	N/A	N/A

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.