



Report No.: FCC1906067 File reference No.: 2019-06-17

Applicant: NINGBO ALLSTAR O&E TECHNOLOGY CO.,LTD

Product: Wireless Power Bank

Model No.: AST-WR070

Trademark: N/A

Test Standards: FCC Part 15 Subpart C

Test result:

It is herewith confirmed and found to comply with the

requirements set up by ANSI C63.4&FCC Part 15 Subpart C, Paragraph 15.231 for the evaluation of electromagnetic

compatibility

Approved By

# Jack Chung

Jack Chung

Manager

Dated: June 17, 2019

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

## SHENZHEN TIMEWAY TESTING LABORATORIES

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

Tel (755) 83448688, Fax (755) 83442996, E-Mail:info@timeway-lab.com

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## **Special Statement:**

The testing quality ability of our laboratory meet with "Quality Law of People's Republic of China" Clause 19.

The testing quality system of our laboratory meets with ISO/IEC-17025 requirements, which is approved by CNAS. This approval result is accepted by MRA of APLAC.

Our test facility is recognized, certified, or accredited by the following organizations:

### **CNAS-LAB Code: L2292**

The EMC Laboratory has been assessed and in compliance with CNAS-CL01 accreditation criteria for testing Laboratories (identical to ISO/IEC 17025:1999 General Requirements) for the Competence of testing Laboratories.

## FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.:744189.

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## **Test Report Conclusion**

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#### 1.0 General Details

#### 1.1 Test Lab Details

Name: SHENZHEN TIMEWAY TESTING LABORATORIES.

Address: Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le

Village, Nanshan District, Shenzhen, China

Telephone: +86 755 83448688 Fax: +86 755 83442996

Site on File with the Federal Communications Commission – United Sates

Registration Number: 744189 For 3m Anechoic Chamber

#### 1.2 Applicant Details

Applicant: NINGBO ALLSTAR O&E TECHNOLOGY CO.,LTD
Address: No.19 Huijin Road, Luotuo Street, Zhenhai, Ningbo,China

Telephone: 0574-86307000/15067447811

Fax: --

#### 1.3 Description of EUT

Product: Wireless Power Bank

Manufacturer: NINGBO ALLSTAR O&E TECHNOLOGY CO.,LTD
Address: No.19 Huijin Road, Luotuo Street, Zhenhai, Ningbo,China

Brand Name: N/A

Model Number: AST-WR070

Additional Model Name N/A
Additional Trade Name N/A

Rating: Input: DC5V, 2A; Output: DC5V/2A; Wireless Output: DC5V/1A

Operation Frequency: See below table

Channel	Frequency (MHz)						
01	0.1115	06	0.140	11	0.165	16	0.190
02	0.120	07	0.145	12	0.170	17	0.195
03	0.125	08	0.150	13	0.175	18	0.200
04	0.130	09	0.155	14	0.180	19	0.205
05	0.135	10	0.160	15	0.185		

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Teas channel	Frequency (MHz)
CH13	0.175 MHz

Modulation Type: MSK

Antenna Designation Inductive Loop Antenna with Gain 0dBi

Note: Frequency Range 0.1115-0.205 (MHz); <5%, 50 %,> 90% load all have been tested, Only worse case Max load (<5% load electric quantity) is reported. AC power in mode and power bank mode all have been tested ,only worse case power bank mode is reported.

- 1.4 Submitted Sample
  - 3 Samples
- 1.5 Test Duration

2019-06-06 to 2019-06-17

1.6 Test Uncertainty

Conducted Emissions Uncertainty = 3.6dB

Radiated Emissions below 9kHz-30MHz Uncertainty =4.3dB

Radiated Emissions below 30MHz-1GHz Uncertainty =4.7dB

Radiated Emissions above 1GHz Uncertainty =6.0dB

Conducted Power Uncertainty = 6.0dB

Occupied Channel Bandwidth Uncertainty = 5%

1.7 Test Engineer

Terry Tang

The sample tested by

Print Name: Terry Tang

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2.0 Test Equipment					
Instrument Type	Manufacturer	Model	Serial No.	Date of Cal.	Due Date
ESPI Test Receiver	R&S	ESPI 3	100379	2018-06-22	2019-06-21
Ultra Broadband ANT	R&S	HL562	100157	2018-06-18	2019-06-17
Loop Antenna	EMCO	6507	00078608	2018-06-25	2019-06-24
Spectrum	R&S	FSIQ26	100292	2018-06-22	2019-06-21
Horn Antenna	A-INFO	LB-180400-KF	J211060660	2018-06-25	2019-06-24
Horn Antenna	R&S	BBHA 9120D	9120D-631	2018-08-24	2019-08-23
Bilog Antenna	Schwarebeck	VULB9163	9163/340	2018-07-04	2019-07-03
9*6*6 Anechoic			N/A	2019-02-07	2021-02-06
Spectrum	HP/Agilent	ESA-L1500A	US37451154	2018-06-22	2019-06-21
Spectrum	RS	FSP	1164.4391.38	2019-01-18	2020-01-17
RF Cable	Zhengdi	ZT26-NJ-NJ-8 M/FA		2018-05-24	2019-05-23
RF Cable	Zhengdi	7m		2019-03-08	2020-03-07
RF Switch	EM	EMSW18	060391	2018-06-22	2019-06-21
Pre-Amplifier	Schwarebeck	BBV9743	#218	2018-06-22	2019-06-21
Pre-Amplifier	HP/Agilent	8449B	3008A00160	2018-08-05	2019-08-04
DC Power Supply	Jingtong	JT12098	WYK-305	2018.08.20	2019-08-19
LISN	SCHAFFNER	NNB42	00012	2019-01-08	2020-01-07

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#### 3.0 Technical Details

## 3.1 Summary of test results

## The EUT has been tested according to the following specifications:

Standard	Test Type	Result	Notes
FCC Part 15, Paragraph 15.203	Antenna	PASS	Compliant
	requirements		
FCC Part 15, Paragraph 15.207	Conducted	PASS	Compliant
	Emission Test		
ECC Post 15 Possessed 15 200 (-) (A	General	DAGG	G1:4
FCC Part 15, Paragraph 15.209 (a) (f)	Requirement	PASS	Compliant
FCC Part 15, Paragraph 15.215	20dB	PASS	Compliant
	Bandwidth		
	Testing		

#### 3.2 Test Standards

FCC Part 15 Subpart C, ANSI C63.4:2014 and ANSI C63.10:2013

## 4.0 EUT Modification

No modification by SHENZHEN TIMEWAY TESTING LABORATORIES

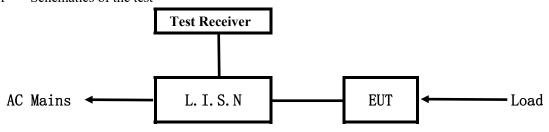
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#### 5. Power Line Conducted Emission Test

#### 5.1 Schematics of the test

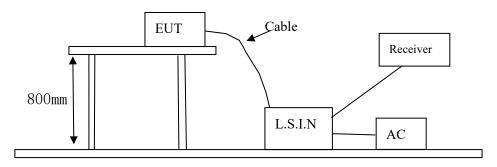


EUT: Equipment Under Test

### 5.2 Test Method and test Procedure

The EUT was tested according to ANSI C63.4-2014. The Frequency spectrum From 0.15MHz to 30MHz was investigated. The LISN used was 50ohm/50uH as specified by section 5.1 of ANSI C63.4 –2014.

#### Block diagram of Test setup



#### 5.3 Configuration of The EUT

The EUT was configured according to ANSI C63.4-2014. All interface ports were connected to the appropriate peripherals. All peripherals and cables are listed below.

## A. EUT

Device	Manufacturer	Model	FCC ID	
Wireless Dower Donk	NINGBO ALLSTAR O&E	AST-WR070	2AQJK-AST-WR070	
Wireless Power Bank	TECHNOLOGY CO.,LTD	A31-WK0/0	ZAQJK-ASI-WKU/U	

#### B. Internal Device

Device	Manufacturer	Model	FCC ID/DOC
N/A			

## C. Peripherals

Device	Manufacturer	Model	Rating

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### 5.4 EUT Operating Condition

Operating condition is according to ANSI C63.10 -2013.

- A Setup the EUT and simulators as shown on follow
- B Enable AF signal and confirm EUT active to normal condition

## 5.5 Power line conducted Emission Limit according to Paragraph 15.207

	Frequency	Class A Lim	its (dB µ V)	Class B Limits (dB µ V)		
(MHz)		Quasi-peak Level	Average Level	Quasi-peak Level	Average Level	
	$0.15 \sim 0.50$	79.0	66.0	66.0~56.0*	56.0~46.0*	
	$0.50 \sim 5.00$	73.0	60.0	56.0	46.0	
Ī	5.00 ~ 30.00	73.0	60.0	60.0	50.0	

Notes:

- 1. \*Decreasing linearly with logarithm of frequency.
- 2. The tighter limit shall apply at the transition frequencies

#### 5.6 Test Results

The frequency spectrum from 0.15MHz to 30MHz was investigated. All reading are quasi-peak values with a resolution bandwidth of 9kHz. (The average detector is necessary when the Quasi-peak emission level beyond the average Limit.)

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## A: Conducted Emission on Live Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

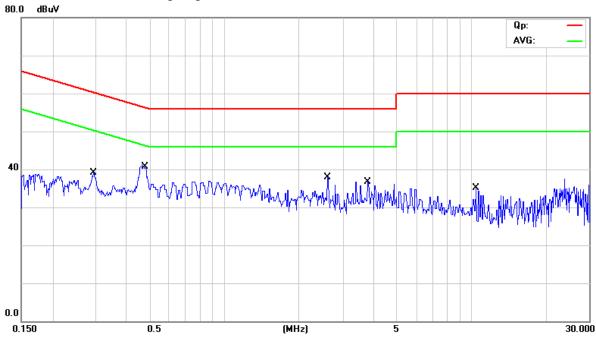
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: PASS** 

Please refer to following diagram for individual



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
1		0.2927	26.50	9.76	36.26	60.45	-24.19	QP	
2		0.2927	-7.90	9.76	1.86	50.45	-48.59	AVG	
3	*	0.4730	26.10	9.77	35.87	56.46	-20.59	QP	
4		0.4730	0.20	9.77	9.97	46.46	-36.49	AVG	
5		2.6075	17.10	9.83	26.93	56.00	-29.07	QP	
6		2.6075	-8.60	9.83	1.23	46.00	-44.77	AVG	
7		3.8020	16.10	9.88	25.98	56.00	-30.02	QP	
8		3.8020	-10.80	9.88	-0.92	46.00	-46.92	AVG	
9		10.4051	11.70	10.18	21.88	60.00	-38.12	QP	
10		10.4051	-14.30	10.18	-4.12	50.00	-54.12	AVG	

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## B: Conducted Emission on Neutral Terminal (150kHz to 30MHz)

**EUT Operating Environment** 

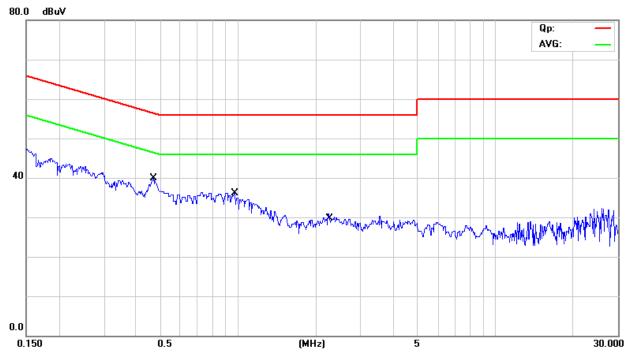
Temperature: 26°C Humidity: 65%RH Atmospheric Pressure: 101 KPa

**EUT set Condition: Keep Transmitting** 

**Equipment Level: Class B** 

**Results: Pass** 

Please refer to following diagram for individual



Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
MHz	dBuV	dB	dBuV	dBuV	dB	Detector	Comment
0.4705	26.10	9.77	35.87	56.51	-20.64	QP	
0.4705	4.70	9.77	14.47	46.51	-32.04	AVG	
0.9728	22.90	9.79	32.69	56.00	-23.31	QP	
0.9728	-2.60	9.79	7.19	46.00	-38.81	AVG	
2.2805	15.80	9.81	25.61	56.00	-30.39	QP	
2.2805	-9.30	9.81	0.51	46.00	-45.49	AVG	
	MHz 0.4705 0.4705 0.9728 0.9728 2.2805	Freq. Level  MHz dBuV  0.4705 26.10  0.4705 4.70  0.9728 22.90  0.9728 -2.60  2.2805 15.80	Freq.         Level         Factor           MHz         dBuV         dB           0.4705         26.10         9.77           0.4705         4.70         9.77           0.9728         22.90         9.79           0.9728         -2.60         9.79           2.2805         15.80         9.81	Freq.         Level         Factor         ment           MHz         dBuV         dB         dBuV           0.4705         26.10         9.77         35.87           0.4705         4.70         9.77         14.47           0.9728         22.90         9.79         32.69           0.9728         -2.60         9.79         7.19           2.2805         15.80         9.81         25.61	Freq.         Level         Factor         ment         Limit           MHz         dBuV         dB         dBuV         dBuV           0.4705         26.10         9.77         35.87         56.51           0.4705         4.70         9.77         14.47         46.51           0.9728         22.90         9.79         32.69         56.00           0.9728         -2.60         9.79         7.19         46.00           2.2805         15.80         9.81         25.61         56.00	Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV         dBuV         dB           0.4705         26.10         9.77         35.87         56.51         -20.64           0.4705         4.70         9.77         14.47         46.51         -32.04           0.9728         22.90         9.79         32.69         56.00         -23.31           0.9728         -2.60         9.79         7.19         46.00         -38.81           2.2805         15.80         9.81         25.61         56.00         -30.39	Freq.         Level         Factor         ment         Limit         Over           MHz         dBuV         dB         dBuV         dBuV         dB         Detector           0.4705         26.10         9.77         35.87         56.51         -20.64         QP           0.4705         4.70         9.77         14.47         46.51         -32.04         AVG           0.9728         22.90         9.79         32.69         56.00         -23.31         QP           0.9728         -2.60         9.79         7.19         46.00         -38.81         AVG           2.2805         15.80         9.81         25.61         56.00         -30.39         QP

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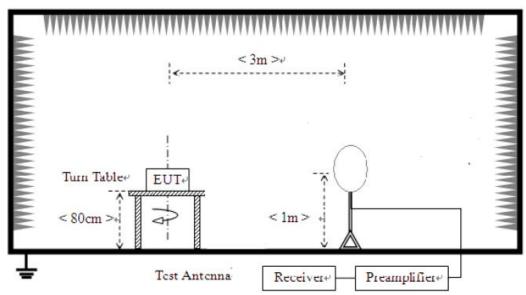
#### **6** Radiated Emission Test

6.1 Test Method and test Procedure:

- (1) The EUT was tested according to ANSI C63.10-2013. The radiated test was performed at TIMEWAY EMC Laboratory. This site is on file with the FCC laboratory division, Registration No.744189
- (2) The EUT, peripherals were put on the turntable which table size is 1m x 1.5 m, table high 0.8 m. All set up is according to ANSI C63.10-2013.
- (3) The frequency spectrum from 9 kHz to 1 GHz was investigated. All readings from 30 MHz to 1 GHz are quasi-peak values with RBW=120 kHz/VBW=300 kHz; All readings from 9 kHz to 30 MHz are quasi-peak values with RBW=10 kHz/VBW=30 kHz. For the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz Radiated emission test in these three bands are based on measurements employing an average detector. Measurements were made at 3 meters.
- (4) The antenna high is varied from 1 m to 4 m high to find the maximum emission for each frequency.
- (5) Maximizing procedure was performed on the six (6) highest emissions to ensure EUT compliance is with all installation combinations. All data was recorded in the peak detection mode. Quasi-peak readings was performed only when an emission was found to be marginal (within -4 dB of specification limit), and are distinguished with a "QP" in the data table.
- (6) The antenna polarization: Vertical polarization and Horizontal polarization.

## **Block diagram of Test setup**

#### 9kHz-30MHz

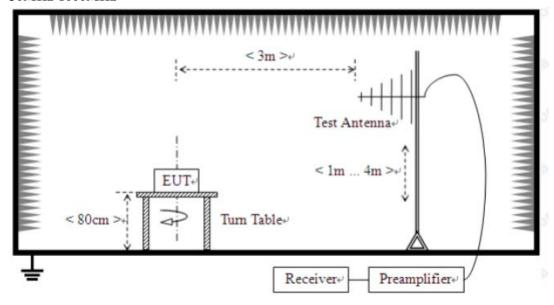


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#### 30MHz-1000MHz



- 6.2 Configuration of The EUT

  Same as section 5.3 of this report
- 6.3 EUT Operating Condition
  Same as section 5.4 of this report.
- 6.4 Radiated Emission Limit

All emission from a digital device, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strength specified below:

# B. Frequencies in restricted band are compiled to limit on Paragraph 15.209. Limits for frequency below 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (V/m)
0.009-0.490	300	24000/F(kHz)
0.490-1.705	30	2400/F(kHz)
1.705-30	30	30

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#### Limits for frequency above 30MHz

Frequency Range (MHz)	Distance (m)	Field strength (dB $\mu$ V/m)
30-88	3	40.0
88-216	3	43.5
216-960	3	46.0
Above 960	3	54.0

Note:

- 1. RF Voltage  $(dBuV) = 20 \log RF \text{ Voltage } (uV)$
- 2. In the Above Table, the tighter limit applies at the band edges.
- 3. Distance refers to the distance in meters between the measuring instrument antenna and the EUT
- 4. The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

#### 6.5 Test result

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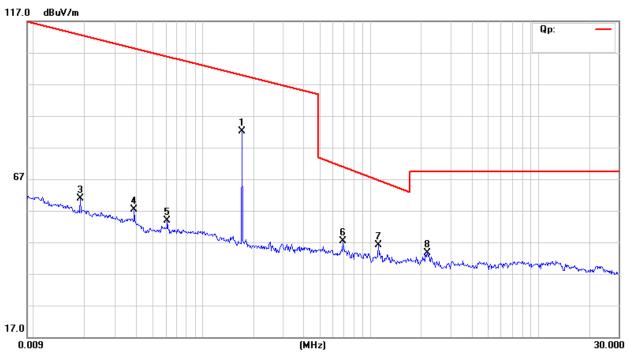


#### Measurement data:

Note: Limit dBuV/m @3m = Limit dBuV/m @300m+ 80

Limit dBuV/m @3m = Limit dBuV/m @30m + 40

#### 9 kHz~30 MHz



No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		
	MHz	dBuV/m	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1	0.1718	72.32	9.77	82.09	102.9	-20.81	peak	
2	0.1718	65.78	9.77	75.55	102.9	-27.35	AVG	
3	0.0184	50.53	10.30	60.83	122.3	-61.48	peak	
4	0.0390	47.35	10.01	57.36	115.7	-58.42	peak	
5	0.0611	44.16	9.78	53.94	111.8	-57.94	peak	
6	0.6912	37.61	9.78	47.39	70.82	-23.43	peak	
7 *	1.1187	36.28	9.79	46.07	66.65	-20.58	peak	
8	2.1762	33.78	9.81	43.59	69.51	-25.92	peak	

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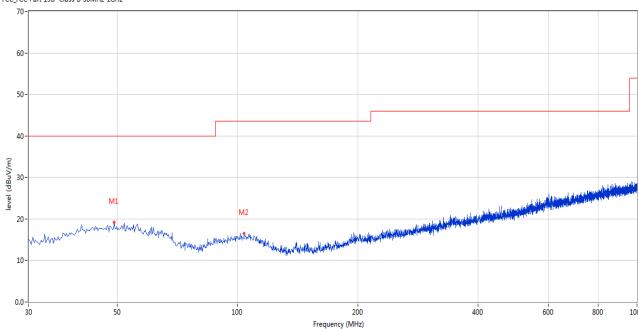
# A. General Radiated Emission Data Radiated Emission In Horizontal (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

**Results:** Pass

Please refer to following diagram for individual

FCC\_FCC Part 15B Class B 30MHz-1GHz



۰		

No.	Frequency	Results	Factor (dB)	Limit	Over Limit	Detector	Table	Height	ANT	Verdict
	(MHz)	(dBuV/m)		(dBuV/m)	(dB)		(o)	(cm)		
1	49.153	19.29	-11.24	40.0	-20.71	Peak	360.00	100	Н	Pass
2	103.944	16.57	-13.33	43.5	-26.93	Peak	24.00	100	Н	Pass

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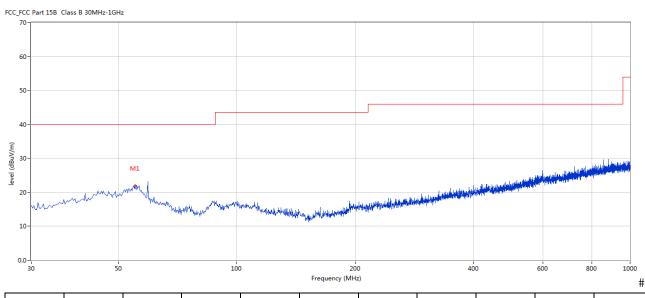
#### B. General Radiated Emission Data

## Radiated Emission In Vertical (30MHz----1000MHz)

EUT set Condition: Keep Transmitting

Results: Pass

Please refer to following diagram for individual



No.	Frequen	Results	Factor	Limit	Over	Detector	Table (o)	Height	ANT	Verdict
	cy (MHz)	(dBuV/m	(dB)	(dBuV/m	Limit			(cm)		
		)		)	(dB)					
1	55.214	21.98	-11.83	40.0	-18.02	Peak	187.00	100	V	Pass

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## 7.0 20dB Bandwidth Testing

#### 7.1 Test Procedure

With the EUT's antenna attached, the EUT's 20dB Bandwidth was received by the test Antenna which was connected to the spectrum analyzer with the START and STOP frequencies set to the EUT's operation band.

#### 7.3 Test Data

Frequency (MHz)	20dB Bandwidth Emission (kHz)	Limit (kHz)	Result
0.175	3.43		Pass

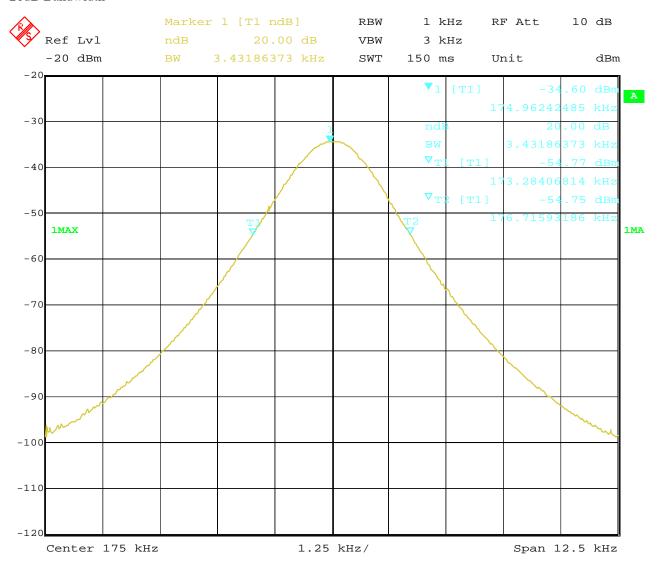
Refer to attached plots:

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#### 20dB Bandwidth



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## 8.0 Antenna Requirement

## 8.1 Standard Applicable

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 shall be considered sufficient to comply with the provisions of this Section. 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. This requirement does not apply to carrier current devices or to devices operated under the provisions of Sections 15.211, 15.213, 15.217, 15.219, or 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with Section 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this Part are not exceeded.

#### 8.2 Antenna Connected constructions

The antenna is Inductive Loop Antenna. The antenna gain is 0dBi. So it meets the requirement of 15.203

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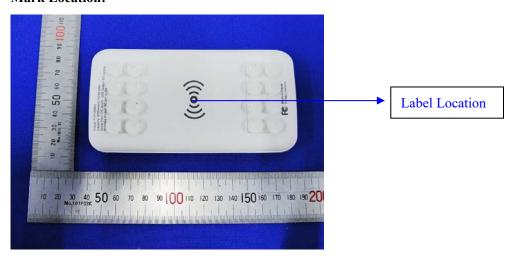
#### 9.0 FCC ID Label

## FCC ID: 2AQJK-AST-WR070

This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

The label must not be a stick-on paper label. The label on these products must be permanently affixed to the product and readily visible at the time of purchase and must last the expected lifetime of the equipment not be readily detachable.

#### **Mark Location:**



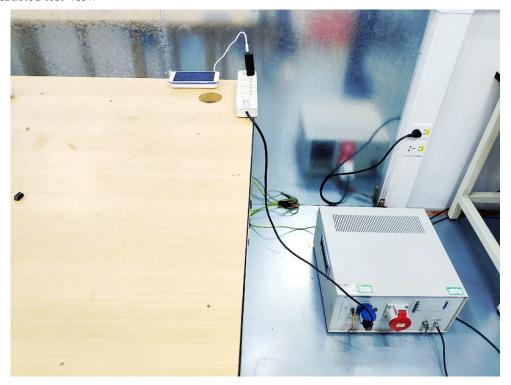
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#### 10.0. Photo of testing

#### 10.1 Conducted test View



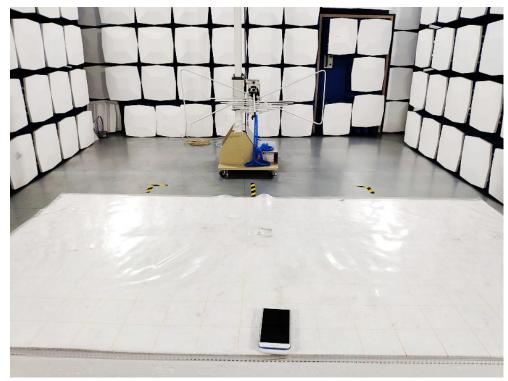
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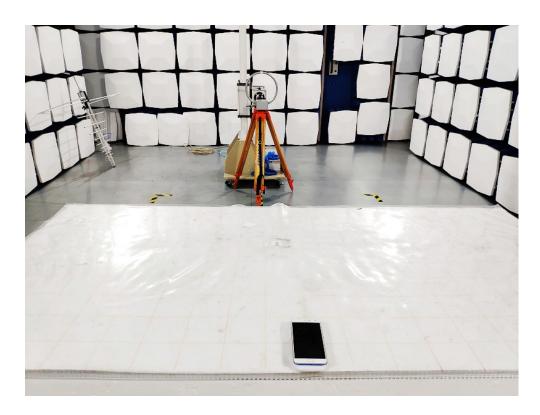
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#### 10.2 Radiated emission test view





The report refers only to the sample tested and does not apply to the bulk.

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#### Photo for the EUT





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#### Photo for the EUT





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#### Photo for the EUT





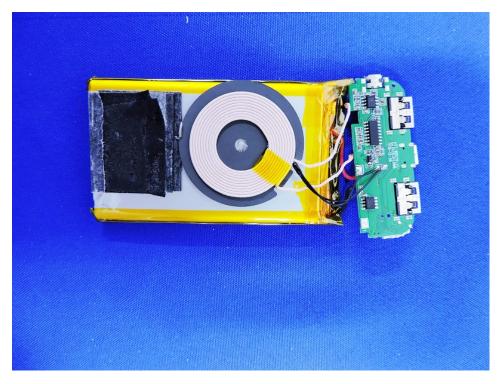
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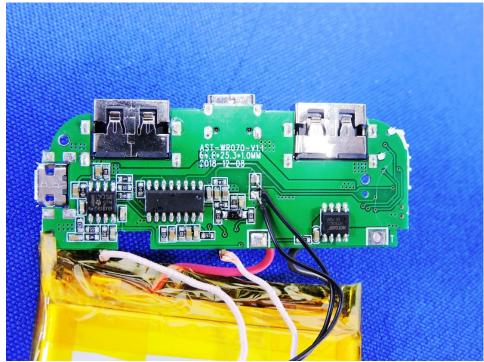
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adopt any other remedies which may be appropriate.

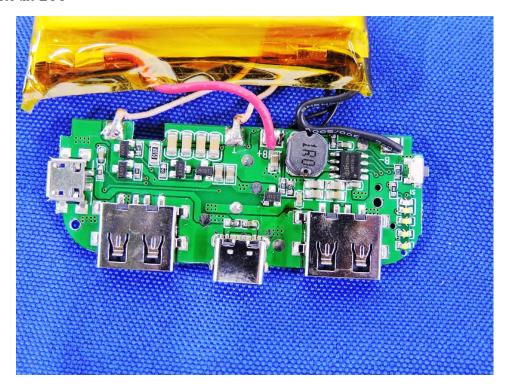
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## Photo for the EUT





End of the report-