

# **TEST REPORT**

Report No.: BCTC2207416378-1E

Applicant: Gigastone Corporation

Product Name: Power Bank

Model/Type Ref.: SP-20000

Tested Date: 2022-07-28 to 2022-08-03

Issued Date: 2022-08-03

Shenzhen BCTC Testing Co., Ltd.



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# FCC ID: 2AR89-SP-20000

Product Name:	Power Bank	(
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Trademark: N/A

Model/Type Ref.: SP-20000 PBT-203B

Prepared For: Gigastone Corporation

Address: 12F, No. 480, Rueiguang Road NeihuDistrict, Taipei 114, Taiwan,

R.O.C, Taipei, Taiwan

Manufacturer: Shenzhen U-Angel Technology Co.,Ltd

Address: 4th Floor, Block C, Phase 2 Of Hongmen Industrial Park, No.399, Jihua Road, Jihua

Street, Longgang District, Shenzhen City, Guangdong Province China

Prepared By: Shenzhen BCTC Testing Co., Ltd.

Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng,

Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China

Sample Received Date: 2022-07-28

Sample tested Date: 2022-07-28 to 2022-08-03

Issue Date: 2022-08-03

Report No.: BCTC2207416378-1E

Test Standards: FCC Part15.209
ANSI C63.10-2013

Test Results: PASS

Tested by:

Brave 2emg

Brave Zeng/ Project Handler

Approved by:

Zero Zhou/Reviewer

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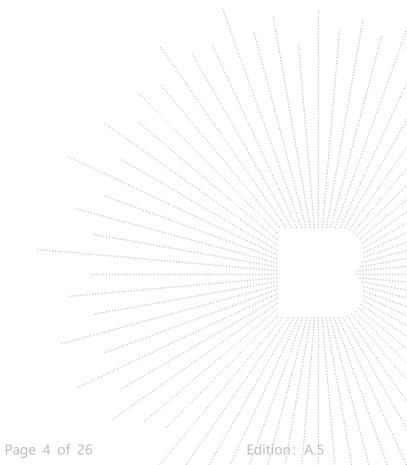
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(Note: N/A Means Not Applicable)



### Version 1.

Report No.	Issue Date	Description	Approved
BCTC2207416378-1E	2022-08-03	Original	Valid



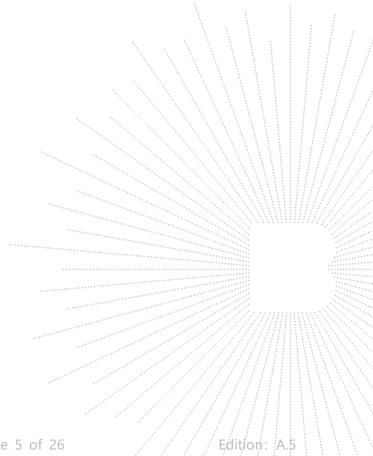
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# 2. Test Summary

The Product has been tested according to the following specifications:

No.	Test Parameter	Clause No	Results
1	Conducted Emission	15.207	PASS
2	Radiated Emission	15.209	PASS
3	20dB Bandwidth	15.215	PASS
4	Antenna Requirement	15.203	PASS



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# 3. Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the Product as specified in CISPR 16-4-2. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

No.	Item	Uncertainty
1	3m chamber Radiated spurious emission(9kHz-30MHz)	U=3.7dB
2	3m chamber Radiated spurious emission(30MHz-1GHz)	U=4.3dB
3	3m chamber Radiated spurious emission(1GHz-18GHz)	U=4.5dB
4	3m chamber Radiated spurious emission(18GHz-40GHz)	U=3.34dB
5	Conducted Emission(150kHz-30MHz)	U=3.20dB
6	Conducted Adjacent channel power	U=1.38dB
7	Conducted output power uncertainty Above 1G	U=1.576dB
8	Conducted output power uncertainty below 1G	U=1.28dB
9	humidity uncertainty	U=5.3%
10	Temperature uncertainty	U=0.59°C

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### 4. Product Information And Test Setup

### 4.1 Product Information

Model/Type Ref.: SP-20000 PBT-203B

Model differences: All the model are the same circuit and RF module, except model names.

Product Description: Power bank
Operation Frequency: 115kHz-205kHz
Antenna installation: loop coil antenna

Ratings: DC 5V from adapter/ DC 3.7V from battery

Hardware Version: N/A
Software Version: N/A

### Cable of Product

No.	Cable Type	Quantity	Provider	Length (m)	Shielded	Note
1			Applicant		Yes/No	With a ferrite ring in mid Detachable
2			встс		Yes/No	

# 4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
1.				<	

### Notes:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

# 4.3 Test Setup Configuration

See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

### Conducted Emission:



### Radiated Spurious Emission





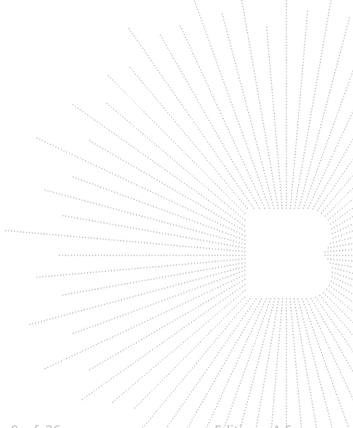
### 4.4 Test Mode

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

remgaration mode (c) members above mas evaluated respectively.					
Test Modes 1	Charging (Micro)				
Test Modes 2	Charging(Lightning)				
Test Modes 3	Charging (Type-C)				
Test Modes 4	Charging (5V 2A) +Wireless (5W)				
Test Modes 5	USB A Output 5V3A				
Test Modes 6	USB B Output 5V3A				
Test Modes 7	Type-C Output 5V2A				

### Note:

All test mode were tested and passed, only Conducted Emissions, Radiated Emissions shows (\*) is the worst case mode which were recorded in this report.



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# 5. Test Facility And Test Instrument Used

# 5.1 Test Facility

All measurement facilities used to collect the measurement data are located at Shenzhen BCTC Testing Co., Ltd. Address: 1-2/F., Building B, Pengzhou Industrial Park, No.158, Fuyuan 1st Road, Zhancheng, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, China. The site and apparatus are constructed in conformance with the requirements of ANSI C63.4 and CISPR 16-1-1 other equivalent standards. FCC Test Firm Registration Number: 712850

IC Registered No.: 23583

# 5.2 Test Instrument Used

	Conducted emissions Test							
Equipment Manufacturer Model# Serial# Last Cal. Next C								
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023			
LISN	R&S	ENV216	101375	May 24, 2022	May 23, 2023			
Software	Frad	EZ-EMC	EMC-CON 3A1	\	\			
Attenuator	\	10dB DC-6GHz	1650	May 24, 2022	May 23, 2023			

RF Conducted Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Power Metter	Keysight	E4419	\	May 24, 2022	May 23, 2023	
Power Sensor (AV)	Keysight	E9300A	\	May 24, 2022	May 23, 2023	
Signal Analyzer20kH z-26.5GHz	Keysight	N9020A	MY49100060	May 24, 2022	May 23, 2023	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	May 24, 2022	May 23, 2023	

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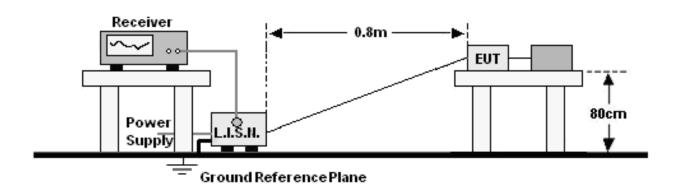
Radiated emissions Test (966 chamber)						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
966 chamber	ChengYu	966 Room	966	Jun. 06. 2020	Jun. 05, 2023	
Receiver	R&S	ESR3	102075	May 24, 2022	May 23, 2023	
Receiver	R&S	ESRP	101154	May 24, 2022	May 23, 2023	
Amplifier	SKET	LAPA_01G18 G-45dB	\	May 24, 2022	May 23, 2023	
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 24, 2022	May 23, 2023	
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 26, 2022	May 25, 2023	
Horn Antenna	Schwarzbeck	BBHA9120D	1541	Jun. 06, 2022	Jun. 05, 2023	
Horn Antenn(18GHz -40GHz)	Schwarzbeck	BBHA9170	00822	Jun. 06, 2022	Jun. 05, 2023	
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 26, 2022	May 25, 2023	
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 26, 2022	May 25, 2023	
RF cables1(9kHz- 30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-00 08	May 26, 2022	May 25, 2023	
RF cables2(30MH z-1GHz)	Huber+Suhnar	30MHz-1GH z	1486150	May 26, 2022	May 25, 2023	
RF cables3(1GHz- 40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	May 26, 2022	May 25, 2023	
Power Metter	Keysight	E4419	\	May 26, 2022	May 25, 2023	
Power Sensor (AV)	Keysight	E9300A	\	May 26, 2022	May 25, 2023	
Signal Analyzer20kHz -26.5GHz	Keysight	N9020A	MY49100060	May 26, 2022	May 25, 2023	
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	\ \( \text{\chi} \)	May 26, 2022	May 25, 2023	
Software	Frad	EZ-EMC	FA-03A2 RE		1	

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### 6. Conducted Emissions

### 6.1 Block Diagram Of Test Setup



### 6.2 Limit

FREQUENCY (MHz)	Limit (	dBuV)
PREQUENCT (MHZ)	Quas-peak	Average
0.15 -0.5	66 - 56 *	56 - 46 *
0.50 -5.0	56.00	46.00
5.0 -30.0	60.00	50.00

### Notes

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

### 6.3 Test Procedure

Receiver Parameters	Setting
Attenuation	10 dB
Start Frequency	0.15 MHz
Stop Frequency	30 MHz
IF Bandwidth	9 kHz

a. The Product was placed on a nonconductive table 0.8 m above the horizontal ground reference plane, and 0.4 m from the vertical ground reference plane, and connected to the main through Line Impedance Stability Network (L.I.S.N).

### 6.4 EUT Operating Conditions

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.

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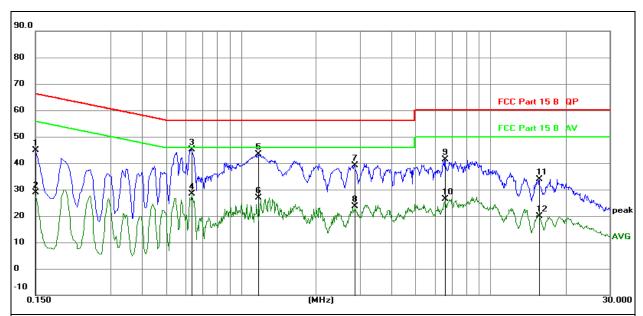
b. The RBW of the receiver was set at 9 kHz in 150 kHz ~ 30MHz with Peak and AVG detector in Max Hold mode. Run the receiver's pre-scan to record the maximum disturbance generated from Product in all power lines in the full band.

c. For each frequency whose maximum record was higher or close to limit, measure its QP and AVG values and record.



### 6.5 Test Result

Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 2



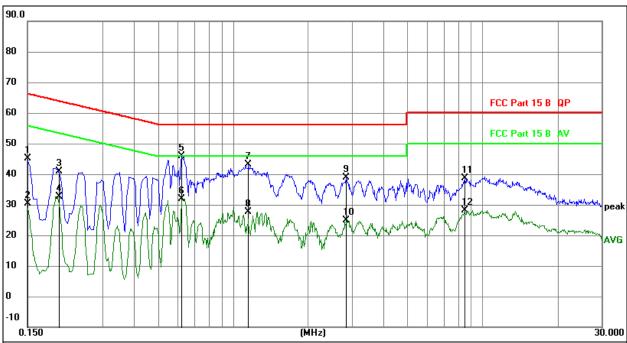
- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

O 10.	-ivioaoai	OITIOTIC EITIIC						
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz		dB	dBuV	dBuV	dB	Detecto
1		0.1500	25.11	19.67	44.78	66.00	-21.22	QP
2		0.1500	9.14	19.67	28.81	56.00	-27.19	AVG
3	*	0.6315	25.38	19.73	45.11	56.00	-10.89	QP
4		0.6315	8.65	19.73	28.38	46.00	-17.62	AVG
5		1.1670	23.66	19.78	43.44	56.00	-12.56	QP
6		1.1670	7.00	19.78	26.78	46.00	-19.22	AVG
7		2.8500	19.10	19.97	39.07	56.00	-16.93	QP
8		2.8500	3.64	19.97	23.61	46.00	-22.39	AVG
9		6.5850	21.17	20.17	41.34	60.00	-18.66	QP
10		6.5850	6.15	20.17	26.32	50.00	-23.68	AVG
11		15.6795	13.57	20.31	33.88	60.00	-26.12	QP
12		15.6795	-0.47	20.31	19.84	50.00	-30.16	AVG
12		15.6795	-0.47	20.31	19.84	50.00	-30.16	



Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage:	AC 120V/60Hz	Test Mode:	Mode 2



- All readings are Quasi-Peak and Average values.
   Factor = Insertion Loss + Cable Loss.
   Measurement=Reading Level+ Correct Factor

- 4. Over=Measurement-Limit

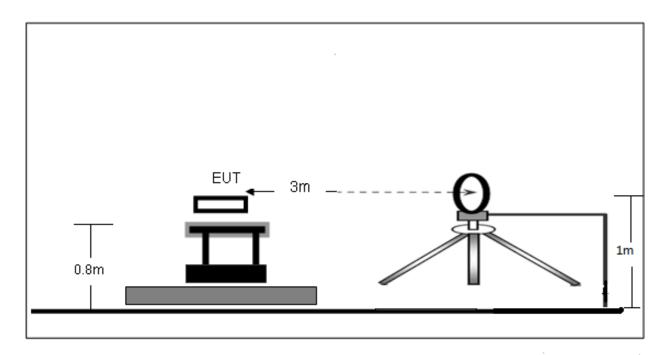
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1500	25.39	19.67	45.06	66.00	-20.94	QP
2	0.1500	10.69	19.67	30.36	56.00	-25.64	AVG
3	0.1997	21.14	19.80	40.94	63.62	-22.68	QP
4	0.1997	12.92	19.80	32.72	53.62	-20.90	AVG
5 *	0.6205	26.11	19.73	45.84	56.00	-10.16	QP
6	0.6205	12.25	19.73	31.98	46.00	-14.02	AVG
7	1.1534	23.44	19.78	43.22	56.00	-12.78	QP
8	1.1534	7.85	19.78	27.63	46.00	-18.37	AVG
9	2.8389	19.01	19.97	38.98	56.00	-17.02	QP
10	2.8389	4.84	19.97	24.81	46.00	-21.19	AVG
11	8.5011	18.32	20.23	38.55	60.00	-21.45	QP
12	8.5011	7.97	20.23	28.20	50.00	-21.80	AVG



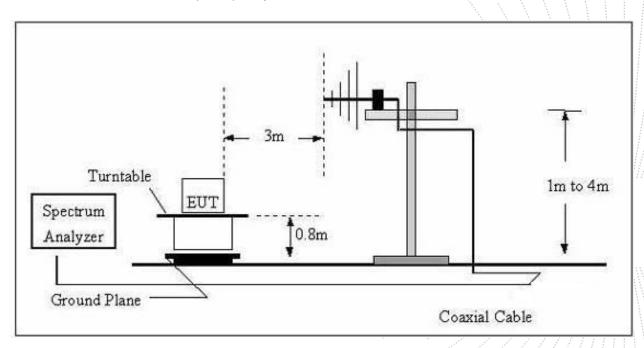
### 7. Radiated Emissions

# 7.1 Block Diagram Of Test Setup

(A) Radiated Emission Test-Up Frequency Below 30MHz



### (B) Radiated Emission Test-Up Frequency 30MHz~1GHz



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### 7.2 Limit

FCC §15.209; §15.205.

Test Standard	FCC Part15 C Section 15.209 and 15.205							
	Frequency (MHz)	Field strength (microvolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)			
	0.009MHz~0.490MHz	2400/F(kHz)	-	-	300			
	0.490MHz-1.705MHz	24000/F(kHz)	-	-	30			
	1.705MHz-30MHz	30	-	-	30			
Test Limit	30MHz~88MHz	100	40.0	Quasi-peak	3			
	88MHz~216MHz	150	43.5	Quasi-peak	3			
	216MHz~960MHz	200	46.0	Quasi-peak	3			
	960MHz~1000MHz	500	54.0	Quasi-peak	3			
	A1 1000MI	500	54.0	Average	3			
	Above 1000MHz		74.0	Peak	3			

### 7.3 Test Procedure

Receiver Parameter	Setting
Attenuation	Auto \ \ \ \
9kHz~150kHz	RBW 200Hz for QP
150kHz~30MHz	RBW 9kHz for QP
30MHz~1000MHz	RBW 120kHz for QP

### Below 1GHz test procedure as below:

- 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.
- 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.
- 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.
- 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 (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

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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.

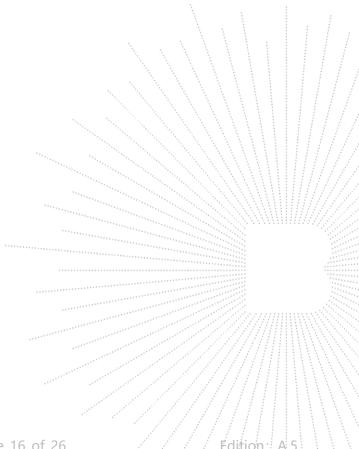
Above 1GHz test procedure as below:

- g. Different between above is the test site, change from Semi- Anechoic Chamber to fully Anechoic Chamber and change form table 0.8 metre to 1.5 metre( Above 18GHz the distance is 1 meter and table is 1.5 metre).
- h. Test the EUT in the lowest channel ,the middle channel ,the Highest channel. Note:

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

### 7.4 Test Result

Note: It only shows the worst mode 7, full load.

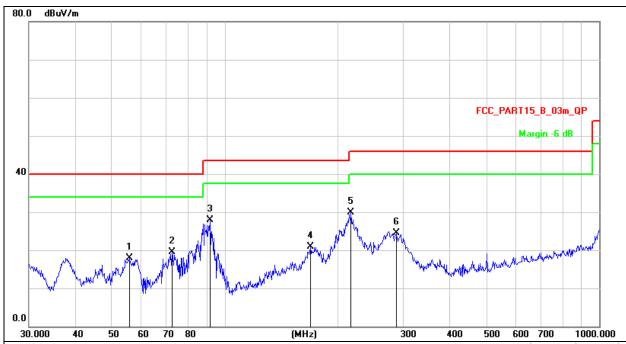


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### Between 30MHz - 1GHz

Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization :	Horizontal



- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
  2. Measurement=Reading Level+ Correct Factor
  3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		55.8047	34.91	-17.05	17.86	40.00	-22.14	QP
2		72.3376	40.21	-20.75	19.46	40.00	-20.54	QP
3	*	91.4949	47.45	-19.52	27.93	43.50	-15.57	QP
4		169.5990	41.16	-20.29	20.87	43.50	-22.63	QP
5	2	217.5443	47.33	-17.52	29.81	46.00	-16.19	QP
6	2	287.9904	40.13	-15.71	24.42	46.00	-21.58	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 7	Polarization :	Vertical

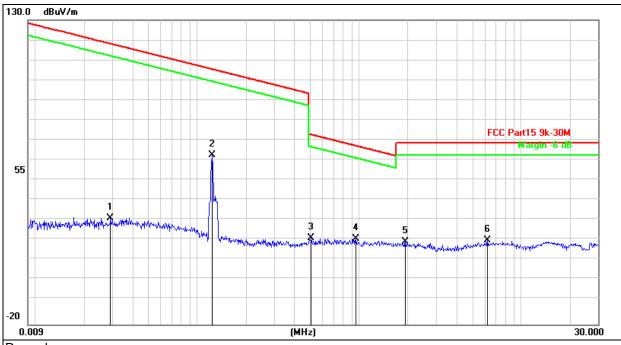


- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		37.9450	48.63	-17.71	30.92	40.00	-9.08	QP
2		57.1914	43.23	-17.26	25.97	40.00	-14.03	QP
3		72.0843	53.08	-20.71	32.37	40.00	-7.63	QP
4	*	90.5037	59.71	-19.67	40.04	43.50	-3.46	QP
5		216.0240	52.88	-17.57	35.31	46.00	-10.69	QP
6	:	285.9778	38.84	-15.75	23.09	46.00	-22.91	QP



Temperature:	26℃	Relative Humidity:	54%
Pressure:	101 kpa	Test Voltage:	DC 5V
Test Mode:	Mode 4	Polarization :	/



- 1.Factor = Antenna Factor + Cable Loss Pre-amplifier.
- 2. Measurement=Reading Level+ Correct Factor
- 3. Over=Measurement-Limit

No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	0.0292	43.07	-10.72	32.35	118.3	-85.95	peak
2 *	0.1236	73.71	-10.13	63.58	105.7	-42.18	peak
3	0.5070	32.69	-10.26	22.43	73.50	-51.07	peak
4	0.9546	32.29	-10.23	22.06	68.02	-45.96	peak
5	1.9334	30.87	-10.17	20.70	69.54	-48.84	peak
6	6.2183	30.82	-9.49	21.33	69.54	-48.21	peak



### 8. Bandwidth Test

- 1. Set RBW = 1%~5% OBW.
- 2. Set the video bandwidth (VBW)  $\geq$  3 x RBW.
- 3. Detector = Peak.
- 4. Trace mode = max hold.
- 5. Sweep = auto couple.
- 6. Allow the trace to stabilize.
- 7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 20 dB relative to the maximum level measured in the fundamental emission.

**TEST SETUP** 

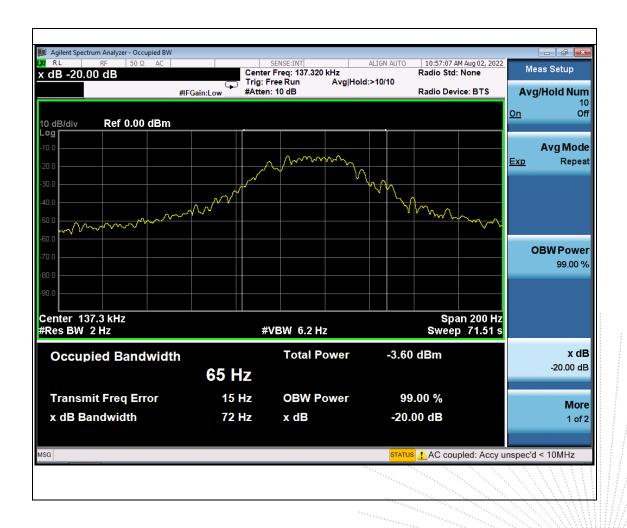


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Temperature :	26 ℃	Relative Humidity:	54%
Pressure :	101kPa		

Frequency (KHz)	20dB bandwidth (Hz)	Result
137.3	72	Pass

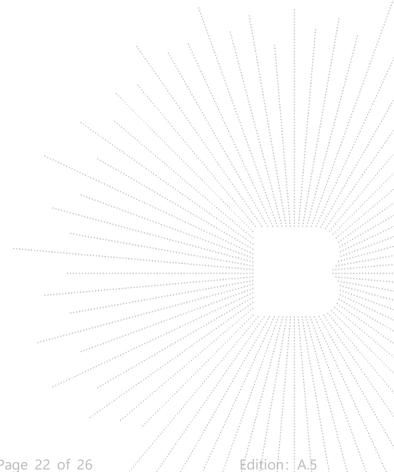




### 9. Antenna Requirements

For intentional device, according to FCC 47 CFR Section 15.203, 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.

The antenna used for this product is Inductive loop coil antenna.

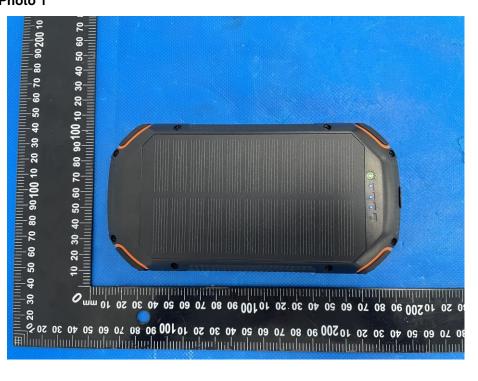


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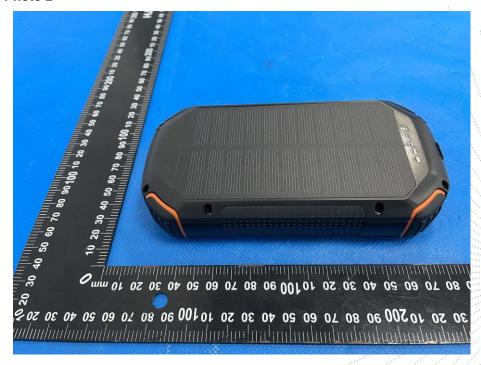


### 10. EUT Photographs

### **EUT Photo 1**



### **EUT Photo 2**



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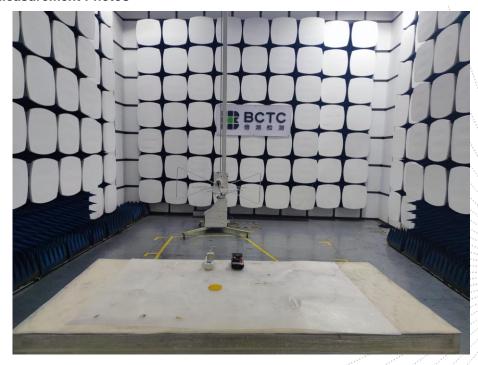


# 11. EUT Test Setup Photographs

# **Conducted emissions**



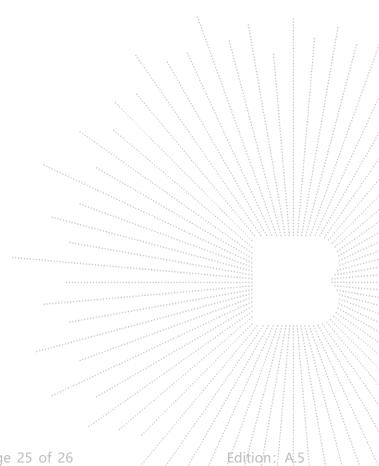
### **Radiated Measurement Photos**



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# **STATEMENT**

- 1. The equipment lists are traceable to the national reference standards.
- 2. The test report can not be partially copied unless prior written approval is issued from our lab.
- 3. The test report is invalid without the "special seal for inspection and testing".
- 4. The test report is invalid without the signature of the approver.
- 5. The test process and test result is only related to the Unit Under Test.
- 6. Sample information is provided by the client and the laboratory is not responsible for its authenticity.
- 7. The test report without CMA mark is only used for scientific research, teaching, enterprise product development and internal quality control purposes.
- 8. The quality system of our laboratory is in accordance with ISO/IEC17025.
- 9. If there is any objection to this test report, the client should inform issuing laboratory within 15 days from the date of receiving test report.

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