

# **TEST REPORT**

Report No.:	BCTC2409648803-1E					
Applicant:	Shenzhen Baseus Technology Co., Ltd.					
Product Name:	Power Bank					
Test Model:	PPNMS-1030SCUS					
Tested Date:	2024-09-27 to 2024-10-17					
Issued Date:	2024-10-17					
She	enzhen BCTC Testing Co., Ltd.					
No.: BCTC/RF-EMC-005	Page 1 of 29 / Edition: B.2					



# FCC ID: 2A482-PPNMS1030SCUS

Product Name:	Power Bank
Trademark:	baseus
Model/Type Reference:	PPNMS-1030SCUS
Prepared For:	Shenzhen Baseus Technology Co., Ltd.
Address:	2 <sup>nd</sup> Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Baseus Technology Co., Ltd.
Address:	2 <sup>nd</sup> Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou Community, Bantian Street, Longgang District, Shenzhen, 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:	2024-09-27
Sample Tested Date:	2024-09-27 to 2024-10-17
Issue Date:	2024-10-17
Report No.:	BCTC2409648803-1E
Test Standards:	FCC Part15.209 ANSI C63.10-2013
Test Results:	PASS

Tested by: Shanshan . Zhang

Shanshan. Zhang / Project Handler

Approved by: Zero Zhou/Reviewer

nature and specialized stamp. This result(s) shown in this re

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(Note: N/A Means Not Applicable)

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# 1. Version

Report No.	Issue Date	Description	Approved
BCTC2409648803-1E	2024-10-17	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

ΞD

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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(30MHz-1GHz)	U=4.3dB
2	Conducted Emission (150kHz-30MHz)	U=3.2dB
3	humidity uncertainty	U=5.3%
4	Temperature uncertainty	U=0.59°C

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# 4. Product Information And Test Setup

#### 4.1 Product Information

Model/Type Reference:	PPNMS-1030SCUS
Model Differences:	N/A
Hardware Version:	N/A
Software Version:	N/A
Modulation:	ASK
Operation Frequency:	115kHz-205kHz, 360kHz
Antenna installation:	loop coil antenna
Ratings:	USB-C/USB-C Cable Input: DC 5V3A, DC 9V/2A, DC 12V/2.5A, DC 15V/2A USB-C/USB-C Cable Output: DC 5V/3A, DC 9V/3A, DC 12V/2.5A, DC 15V/2A, DC 20V/1.5A, DC 10V/2.25A(SCP), PPS 5-11V/3A(30W Max.) Wireless charging Output: 5W//7.5W/15W USB-C+USB-C Cable Output: DC 5V/3A Total Output: DC 5V/3A Battery: DC 7.2V

# 4.2 Support Equipment

No.	Device Type	Brand	Model	Series No.	Note
E-1	Power Bank	baseus	PPNMS-1030SCUS	N/A	EUT
E-2	ADAPTER	Hoco.	N18	N/A	Auxiliary
E-3	Load	N/A	N/A	N/A	Auxiliary

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.

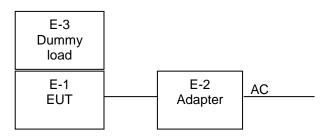


# 4.3 Test Setup Configuration

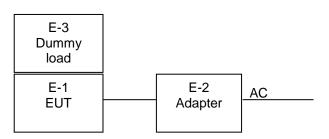
See test photographs attached in *EUT TEST SETUP PHOTOGRAPHS* for the actual connections between Product and support equipment.

#### Conducted Emission:

Test Mode 1



Radiated Spurious Emission: Test Mode 1



Test Mode 2, 3, 4

E-3 Dummy load	
E-1 EUT	

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#### 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.

AC Mode	Mode 1	Charging+Full Load(5W, 115-205kHz)	
	Mode 2	Full Load(15W, 360kHz)	
DC Mode	Mode 3	Half Load(7.5W, 115-205kHz)	
	Mode 4	Null Load(115-205kHz)	

Note: All test mode were tested and passed, only shows 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

A2LA certificate registration number is: CN1212

ISED Registered No.: 23583

ISED CAB identifier: CN0017

# 5.2 Test Instrument Used

Conducted Emissions Test						
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.	
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025	
LISN	R&S	ENV216	101375	May 16, 2024	May 15, 2025	
Software	Frad	EZ-EMC	EMC-CON 3A1	/	/	
Pulse limiter	Schwarzbeck	VTSD9561-F	01323	May 16, 2024	May 15, 2025	

		RF Cond	lucted Test		- 1 . <i>1</i>
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
Power Meter	Keysight	E4419		May 16, 2024	May 15, 2025
Power Sensor (AV)	Keysight	E9300A		May 16, 2024	May 15, 2025
Signal Analyzer 20kHz-26.5G Hz	Keysight	N9020A	MY49100060	May 16, 2024	May 15, 2025
Spectrum Analyzer 9kHz-40GHz	R&S	FSP 40		May 16, 2024	May 15, 2025



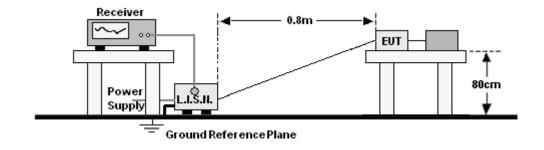
Radiated Emissions Test (966 Chamber01)					
Equipment	Manufacturer	Model#	Serial#	Last Cal.	Next Cal.
966 chamber	ChengYu	966 Room	966	May 15, 2023	May 14, 2026
Receiver	R&S	ESR3	102075	May 16, 2024	May 15, 2025
Receiver	R&S	ESRP	101154	May 16, 2024	May 15, 2025
Amplifier	Schwarzbeck	BBV9744	9744-0037	May 16, 2024	May 15, 2025
TRILOG Broadband Antenna	Schwarzbeck	VULB9163	942	May 21, 2024	May 20, 2025
Loop Antenna(9KHz -30MHz)	Schwarzbeck	FMZB1519B	00014	May 21, 2024	May 20, 2025
Amplifier	SKET	LAPA_01G1 8G-45dB	SK202104090 1	May 16, 2024	May 15, 2025
Horn Antenna	Schwarzbeck	BBHA9120D	1541	May 21, 2024	May 20, 2025
Amplifier(18G Hz-40GHz)	MITEQ	TTA1840-35- HG	2034381	May 16, 2024	May 15, 2025
Horn Antenn(18GH z-40GHz)	Schwarzbeck	BBHA9170	00822	May 21, 2024	May 20, 2025
Spectrum Analyzer9kHz- 40GHz	R&S	FSP40	100363	May 16, 2024	May 15, 2025
Software	Frad	EZ-EMC	FA-03A2 RE	\	\

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#### 6. Conducted Emissions

#### 6.1 Block Diagram Of Test Setup



#### 6.2 Limit

	Limit (	dBuV)
Frequency (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).

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.

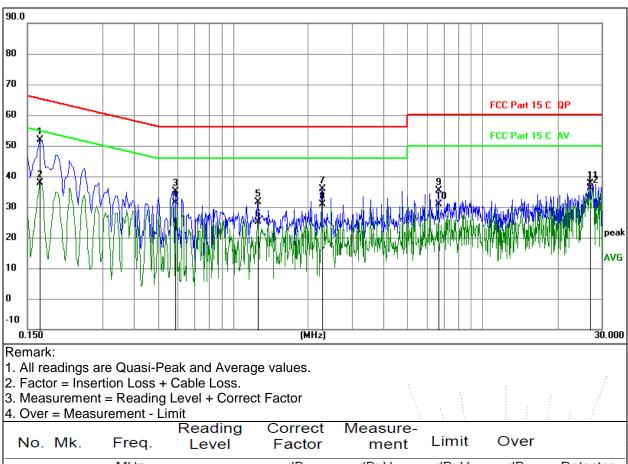
#### 6.4 EUT operating Conditions

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.



# 6.5 Test Result

Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	L
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



1 * 0.1677 31.82 20.07 51.89 65.07 -13.18 C   2 0.1677 17.92 20.07 37.99 55.07 -17.08 A   3 0.5885 15.08 20.08 35.16 56.00 -20.84 C   4 0.5885 11.19 20.08 31.27 46.00 -14.73 A   5 1.2555 11.59 20.09 31.68 56.00 -20.75 A   6 1.2555 5.16 20.09 25.25 46.00 -20.75 A   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	etector
1 * 0.1677 31.82 20.07 51.89 65.07 -13.18 C   2 0.1677 17.92 20.07 37.99 55.07 -17.08 A   3 0.5885 15.08 20.08 35.16 56.00 -20.84 C   4 0.5885 11.19 20.08 31.27 46.00 -14.73 A   5 1.2555 11.59 20.09 31.68 56.00 -20.75 A   6 1.2555 5.16 20.09 25.25 46.00 -20.75 A   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	
1 0.1077 31.32 20.07 31.33 0.507 -13.16 C   2 0.1677 17.92 20.07 37.99 55.07 -17.08 AV   3 0.5885 15.08 20.08 35.16 56.00 -20.84 C   4 0.5885 11.19 20.08 31.27 46.00 -14.73 AV   5 1.2555 11.59 20.09 31.68 56.00 -24.32 C   6 1.2555 5.16 20.09 25.25 46.00 -20.75 AV   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	
3 0.5885 15.08 20.08 35.16 56.00 -20.84 C   4 0.5885 11.19 20.08 31.27 46.00 -14.73 A   5 1.2555 11.59 20.09 31.68 56.00 -24.32 C   6 1.2555 5.16 20.09 25.25 46.00 -20.75 A   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	QP
4 0.5885 11.19 20.08 31.27 46.00 -14.73 AV   5 1.2555 11.59 20.09 31.68 56.00 -24.32 C   6 1.2555 5.16 20.09 25.25 46.00 -20.75 AV   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	AVG
5 1.2555 11.59 20.09 31.68 56.00 -24.32 C   6 1.2555 5.16 20.09 25.25 46.00 -20.75 A   7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	QP
61.25555.1620.0925.2546.00-20.75Av72.272615.6620.1135.7756.00-20.23C	AVG
7 2.2726 15.66 20.11 35.77 56.00 -20.23 C	QP
	AVG
8 2.2726 10.84 20.11 30.95 46.00 -15.05 A	QP
	AVG
9 6.6624 15.14 20.16 35.30 60.00 -24.70 C	QP
10 6.6624 10.68 20.16 30.84 50.00 -19.16 AV	AVG
11 26.8411 17.28 20.29 37.57 60.00 -22.43 C	QP
12 26.8411 15.91 20.29 36.20 50.00 -13.80 AV	AVG

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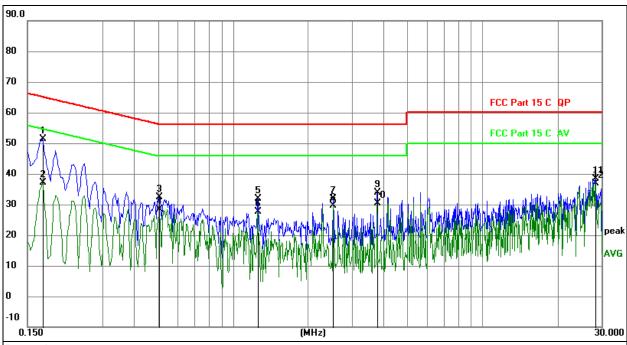
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Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Ν
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



Remark:

1. All readings are Quasi-Peak and Average values.

2. Factor = Insertion Loss + Cable Loss.

3. Measurement = Reading Level + Correct Factor 4. Over = Measurement - Limit

4. Over = Mea	isurement - Li	mit					
No. Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
	MHz		dB	dBuV	dBuV	dB	Detector
1	0.1725	31.27	20.07	51.34	64.84	-13.50	QP
2	0.1725	17.00	20.07	37.07	54.84	-17.77	AVG
3	0.5055	12.31	20.08	32.39	56.00	-23.61	QP
4	0.5055	8.34	20.08	28.42	46.00	-17.58	AVG
5	1.2570	11.90	20.09	31.99	56.00	-24.01	QP
6	1.2570	7.46	20.09	27.55	46.00	-18.45	AVG
7	2.5260	11.89	20.11	32.00	56.00	-24.00	QP
8	2.5260	9.42	20.11	29.53	46.00	-16.47	AVG
9	3.7860	13.83	20.14	33.97	56.00	-22.03	QP
10	3.7860	10.17	20.14	30.31	46.00	-15.69	AVG
11	28.3785	18.06	20.28	38.34	60.00	-21.66	QP
12 *	28.3785	16.50	20.28	36.78	50.00	-13.22	AVG

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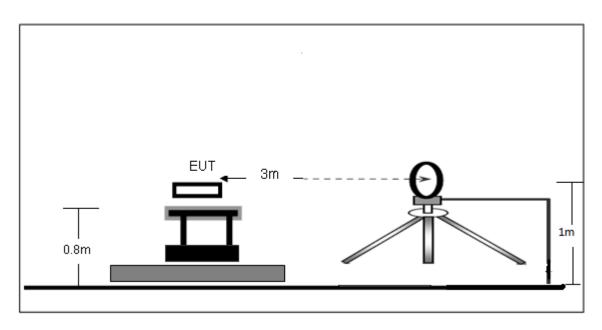
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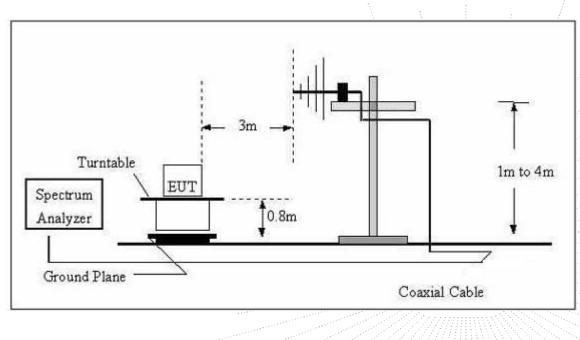
# 7. Radiated Emissions

# 7.1 Block Diagram Of Test Setup

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



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







# 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	
Test Limit	1.705MHz-30MHz	30	-	-	30	
	30MHz~88MHz	100	40.0	Quasi-peak	3	
	88MHz~216MHz	150	43.5	Quasi-peak	3	
	216MHz~960MHz	200	46.0	Quasi-peak	3	
9	960MHz~1000MHz	500	54.0	Quasi-peak	3	
	Above 1000MHz	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 camber. 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.

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.

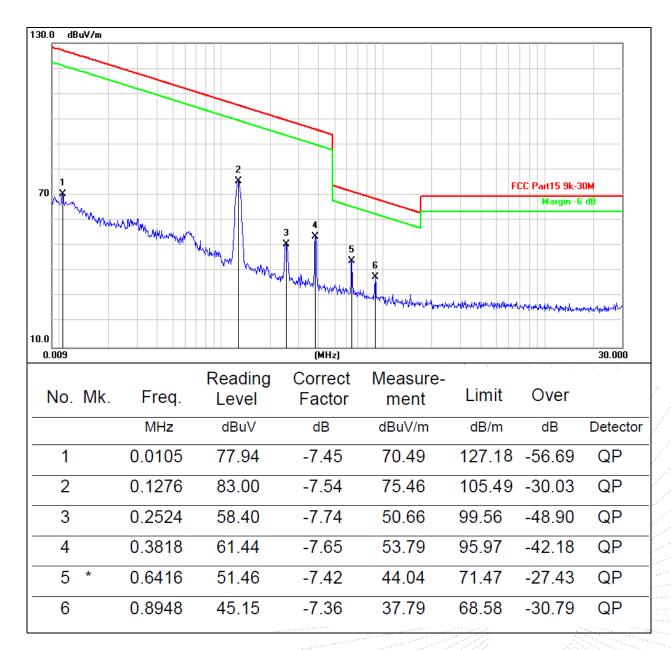
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# 7.4 Test Result

9kHz-30MHz

Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	AC 120V/60Hz
Test Mode:	Mode 1	Polarization:	Coaxial(Worst)

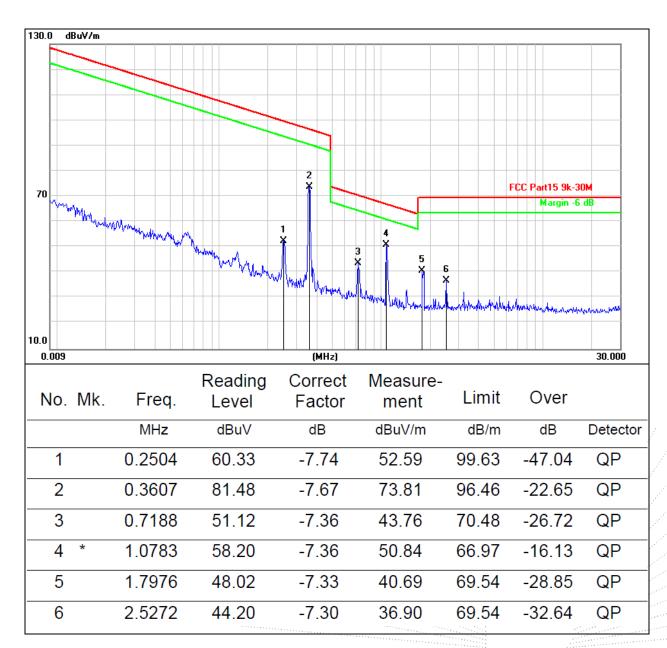




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Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101 kPa	Test Voltage:	DC 7.2V
Test Mode:	Mode 2	Polarization:	Coaxial(Worst)

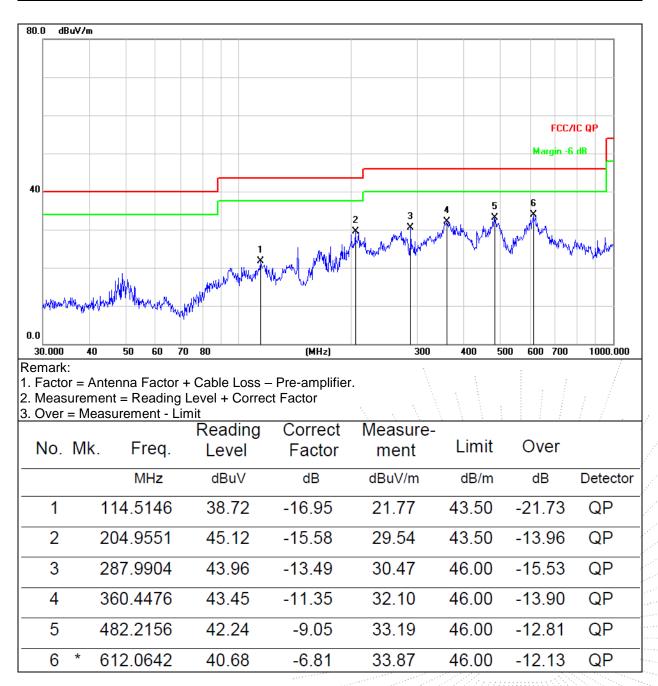


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Between 30MHz - 1GHz

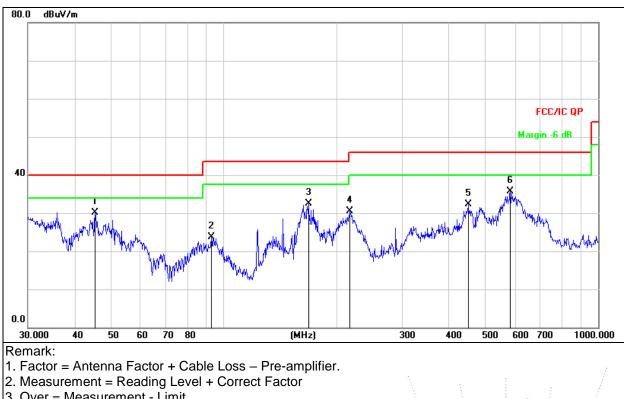
Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase:	Horizontal
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz



No.: BCTC/RF-EMC-005



Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 1	Test Voltage:	AC 120V/60Hz

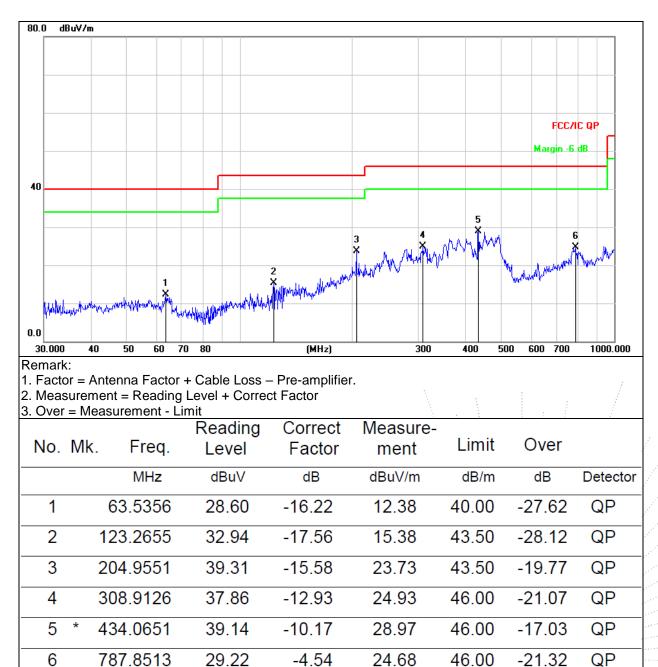


3. Ove	<u>r = Me</u>	asurement - L	limit					
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	45.3755	44.46	-14.28	30.18	40.00	-9.82	QP
2		92.7871	40.63	-16.99	23.64	43.50	-19.86	QP
3		168.4138	50.51	-18.06	32.45	43.50	-11.05	QP
4		217.5443	45.70	-15.22	30.48	46.00	-15.52	QP
5		449.5558	42.12	-9.87	32.25	46.00	-13.75	QP
6		582.7425	43.84	-8.18	35.66	46.00	-10.34	QP

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Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Horizontal
Test Mode:	Mode 2	Test Voltage:	DC 7.2V

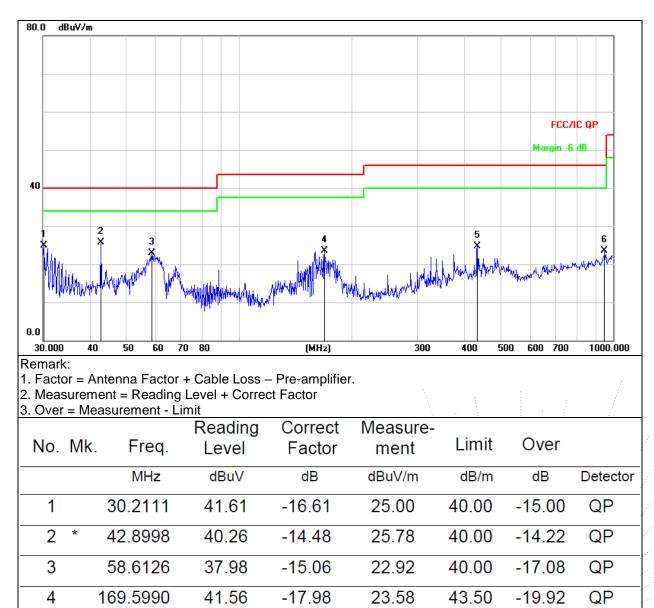


JC JC PPR

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Temperature:	<b>26</b> ℃	Relative Humidity:	54%RH
Pressure:	101KPa	Phase :	Vertical
Test Mode:	Mode 2	Test Voltage:	DC 7.2V



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434.0651

948.7610

34.92

26.50

-10.17

-2.94

5

6

24.75

23.56

46.00

46.00

-21.25

-22.44

QP

QP



# 8. Bandwidth Test

#### 8.1 Test Procedure

- 1. Set RBW = 1%~5% OBW.
- 2. Set the video bandwidth (VBW)  $\ge$  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.

#### 8.2 Test Setup





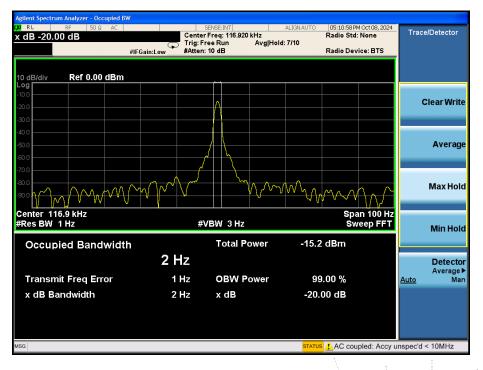
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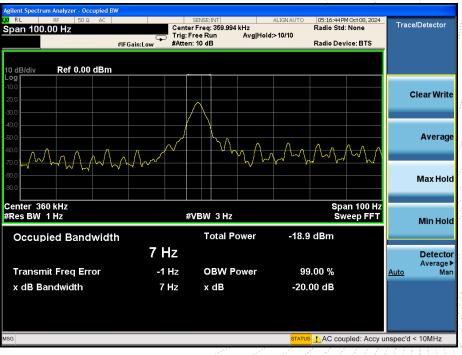
Edition: B.2



# 8.3 Test Result

Frequency (kHz)	20dB bandwidth (kHz)	Result
116.9	0.002	Pass
360	0.007	Pass







# 9. Antenna Requirements

#### 9.1 Limit

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.

#### 9.2 Test Result

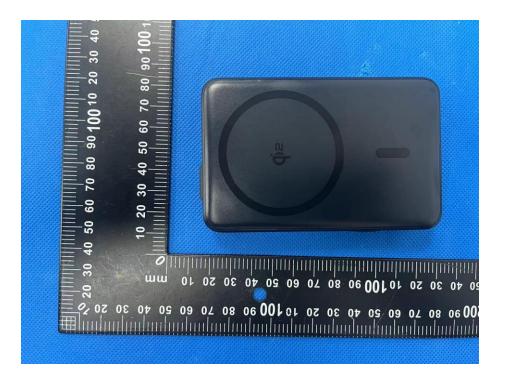
The antenna used for this product is Inductive Loop coil antenna.

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# 10. EUT Photographs

#### EUT Photo



NOTE: Appendix-Photographs Of EUT Constructional Details

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API



# 11. EUT Test Setup Photographs

Conducted emissions



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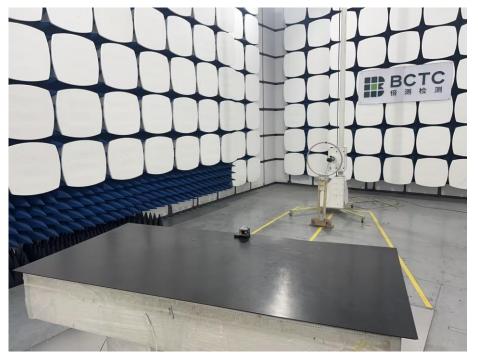
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#### **Radiated Measurement Photos**

#### 9kHz-30MHz



30MHz-1GHz



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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 quality system of our laboratory is in accordance with ISO/IEC17025.

8. 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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\*\*\*\*\* END \*\*\*\*\*

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