

Shenzhen Huaxia Testing Technology Co., Ltd

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Test Report

Report No.: CQASZ20210600890E-01

Applicant: Shenzhen Times Innovation Technology Co., Ltd

Address of Applicant: 5th Floor, Building B, Baseus Intelligence Park, No.2008, Xuegang Rd, Gangtou

Community, Bantian Street, Longgang District, Shenzhen, China

Equipment Under Test (EUT):

Product: Baseus Wireless Charger Gravity Car Mount

Model No.: WXYL-1, WXYL-01, WXYL-0S

Test Model No.: WXYL-1
Brand Name: Baseus

FCC ID: 2AY37-WXYL

Standards: 47 CFR Part 15, Subpart C

Date of Receipt: 2021-06-22

Date of Test: 2021-06-22 to 2021-07-06

Date of Issue: 2021-7-13
Test Result: PASS*

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

lewis 2h0u Tested By:

(Lewis Zhou)

Reviewed By:

(Timo Lei)

Approved By:

(Jack aı)







1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210600890E-01	Rev.01	Initial report	2021-7-13





2 Test Summary

Test Item	Test Requirement	Test method	Result
Antenna Requirement	47 CFR Part 15, Subpart C Section 15.203	ANSI C63.10 2013	PASS
AC Power Line Conducted Emission	47 CFR Part 15, Subpart C Section 15.207	ANSI C63.10 2013	PASS
20dB Occupied Bandwidth	47 CFR Part 15, Subpart C Section 15.215	ANSI C63.10 2013	PASS
Radiated Emission , Radiated Spurious Emissions	47 CFR Part 15, Subpart C Section 15.209	ANSI C63.10 2013	PASS



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4 General Information

4.1 Client Information

Applicant:	Shenzhen Times Innovation Technology Co., Ltd
Address of Applicant:	5th Floor, Building B, Baseus Intelligence Park, No.2008,Xuegang Rd,
	Gangtou Community, Bantian Street, Longgang District, Shenzhen, China
Manufacturer:	Shenzhen Times Innovation Technology Co., Ltd
Address of Manufacturer:	5th Floor, Building B, Baseus Intelligence Park, No.2008,Xuegang Rd,
	Gangtou Community, Bantian Street, Longgang District, Shenzhen, China
Factory:	Shenzhen Ananjia Electronics Co., Ltd.
Address of Factory:	3/f, Quanxinyuan indusstrial zone, Huafang road, Dalang Street, Longhua District, Shenzhen

4.2 General Description of EUT

Product Name:	Baseus Wireless Charger Gravity Car Mount
Model No.:	WXYL-1, WXYL-01, WXYL-0S
Test Model No.:	WXYL-1
Brand Name:	Baseus
Hardware Version:	V6.2
Software Version:	V3.2
EUT Power Supply:	Input :Type-C DC 5V 2A, DC 9V 1.7A(Max)

4.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	110kHz~205kHz
Modulation Type:	ASK
Antenna Type:	Induction coil
Antenna Gain:	0dBi
Power:	Output: 5W/10W

Note:

1. In section 15.31(m), regards to the operating frequency range less 1 MHz.



4.4 Test Environment

Operating Environment	
Radiated Emissions:	
Temperature:	25.5 °C
Humidity:	53 % RH
Atmospheric Pressure:	1009 mbar
Conducted Emissions:	
Temperature:	25.5 °C
Humidity:	55 % RH
Atmospheric Pressure:	1009 mbar
Radio conducted item to	est (RF Conducted test room):
Temperature:	27.3 °C
Humidity:	58 % RH
Atmospheric Pressure:	1009 mbar
Test Mode:	
Mode a:	Wireless output Mode at 5W
Mode b:	Wireless output Mode at 10W
Note: The mode b was t	he worst case and only the data of the worst case record in this report.

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

1) Support equipment

Description	Manufacturer	Model No.	Certification	Supplied by
Adapter	HUAWEI	LPL-C010050200Z	DOC	CQA
2) Cable				

Cable No.	Description	Manufacturer	Cable Type/Length	Supplied by
/	1	1	1	1





4.6 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate.

The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities.

The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods – Part 4: Uncertainty in EMC Measurements" and is documented in the **Shenzhen Huaxia Testing Technology Co., Ltd.** guality system acc. to DIN EN ISO/IEC 17025.

Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for CQA laboratory is reported:

No.	Item	Uncertainty	Notes
1	Radiated Emission (Below 1GHz)	5.12dB	(1)
2	Radiated Emission (Above 1GHz)	4.60dB	(1)
3	Occupied Bandwidth	1.1%	(1)
4	Temperature test	0.8℃	(1)
5	Humidity test	2.0%	(1)

⁽¹⁾This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

4.7 Test Location

Shenzhen Huaxia Testing Technology Co., Ltd,

1F., Block A of Tongsheng Technology Building, Huahui Road, Dalang Street, Longhua District, Shenzhen, China

4.8 Test Facility

A2LA (Certificate No. 4742.01)

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 4742.01.

• FCC Registration No.: 522263

Shenzhen Huaxia Testing Technology Co., Ltd., Shenzhen 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.:522263

4.9 Deviation from Standards

None.

4.10 Other Information Requested by the Customer

None.





4.11 Equipment List

			Instrument	Calibration	Calibration
Test Equipment	Manufacturer	Model No.	No.	Date	Due Date
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
Spectrum analyzer	R&S	FSU26	CQA-038	2020/10/25	2021/10/24
Preamplifier	MITEQ	AMF-6D-02001800-29- 20P	CQA-036	2020/10/25	2021/10/24
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2020/10/21	2021/10/20
Bilog Antenna	R&S	HL562	CQA-011	2020/9/26	2021/9/25
Horn Antenna	R&S	HF906	CQA-012	2020/9/26	2021/9/25
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2020/9/25	2021/9/24
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2020/9/26	2021/9/25
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2020/9/26	2021/9/25
Antenna Connector	CQA	RFC-01	CQA-080	2020/9/26	2021/9/25
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2020/9/26	2021/9/25
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2020/9/26	2021/9/25
EMI Test Receiver	R&S	ESR7	CQA-005	2020/10/25	2021/10/24
LISN	R&S	ENV216	CQA-003	2020/10/23	2021/10/22
Coaxial cable	CQA	N/A	CQA-C009	2020/9/26	2021/9/25
DC power	KEYSIGHT	E3631A	CQA-028	2020/9/26	2021/9/25





5 Test results and Measurement Data

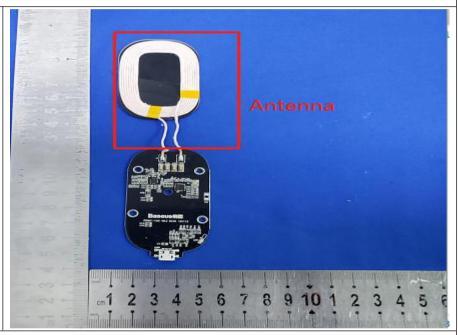
5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203

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.

EUT Antenna:



The antenna is Induction coil. The best case gain of the antenna is 0dBi.



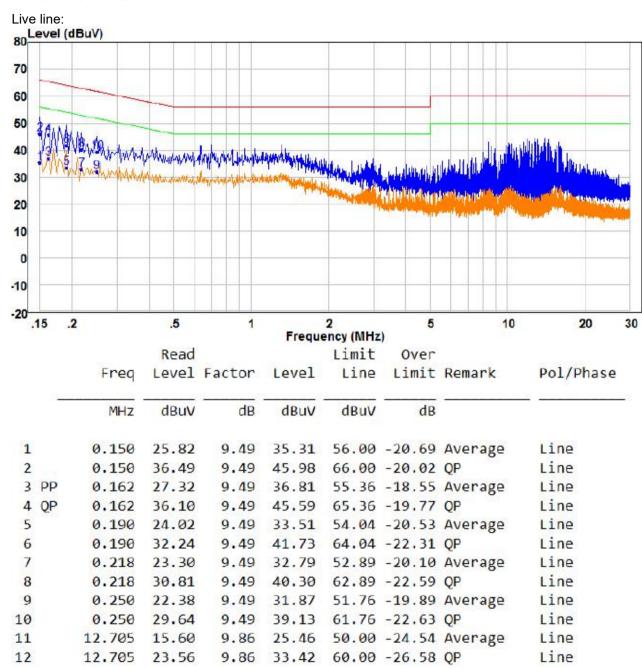


5.2 Conducted Emissions

Test Requirement: 47 CFR Part 15C Section 15.207 Test Method: ANSI C63.10: 2013 Test Frequency Range: 150kHz to 30MHz Limit: Frequency range (MHz) Quasi-peak Average 0.15-0.5 66 to 56° 56 to 46° 0.5-5 56 446 5-30 60 50 50 0.5-5 56 446 5-30 60 50 0.5-5 56 446 5-30 60 50 0.5-5 56 446 5-30 60 50 0.5-5 56 446 5-30 60 50 0.5-5 56 446 5-30 60 50 0.5-5 56 56 446 5-30 60 50 0.5-5 56 56 46 5-30 60 50 0.5-5 56 56 46 5-30 60 50 0.5-5 56 56 46 5-30 60 50 0.5-5 56 56 56 56 56 56 56 56 56 56 56 56 56	To at De audine ne auti	47 OFD D-11 450 C11-11 45 (207			
Test Frequency Range: Limit: Frequency range (MHz)	·	47 CFR Part 15C Section 15.207				
Limit: Frequency range (MHz)						
State Content Conte						
Quasi-peak Average 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50 * Decreases with the logarithm of the frequency. 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50µH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed upon a non-metallic table 0.8m above the ground reference plane. The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.	Limit:	Frequency range (MHz)	Limit (c	dBuV)		
Test Procedure: 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 500/50µH + 50 linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. This distance was between the closest points of the LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2013 on conducted measurement.			Quasi-peak	Average		
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ANSI C63.10: 2013 on conducted measurement. Test Setup: Shielding Room Test Receiver Ground Reference Plane					nent	
Shielding Room Test Receiver LISN1 Ground Reference Plane				<u>-</u>		
Shielding Room Test Receiver LISN1 Ground Reference Plane	Test Setup:					
Test Results: Pass		AC Mains	USN2 → AC Ma			
Test Results: Pass			Procedure 155600-166/Pt 5000000000000016 PORSCOTE LANGUET			
	Test Results:	Pass				



Measurement Data

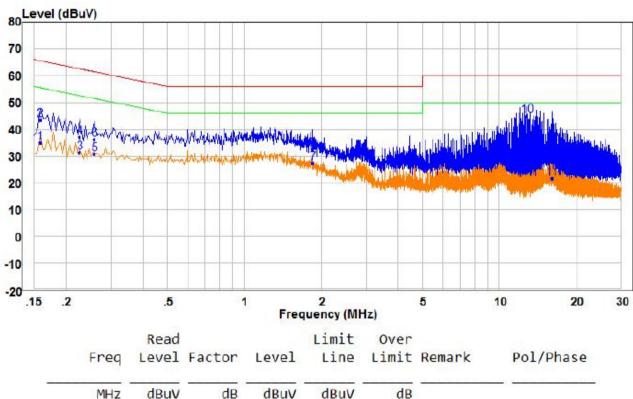


Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



Neutral line:



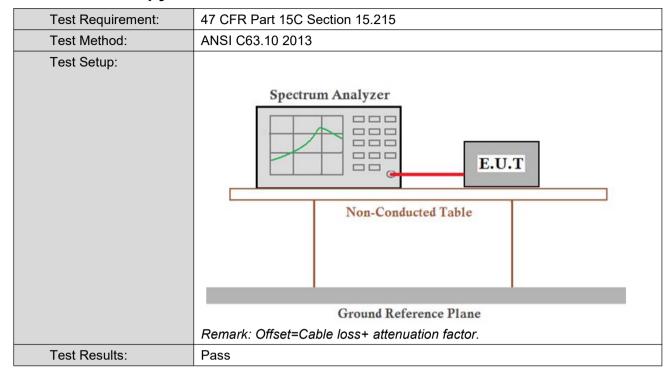
		Freq	Level	Factor	Level	Line	Limit	Remark	Pol/Phase
	-	MHz	dBuV	dB	dBuV	dBuV	dB	9-11-11-11-1	
1		0.158	25.52	9.48	35.00	55.57	-20.57	Average	Neutral
2		0.158	34.21	9.48	43.69	65.57	-21.88	QP	Neutral
3		0.226	21.77	9.48	31.25	52.60	-21.35	Average	Neutral
4		0.226	27.73	9.48	37.21	62.60	-25.39	QP	Neutral
5		0.258	21.27	9.48	30.75	51.50	-20.75	Average	Neutral
6		0.258	26.80	9.48	36.28	61.50	-25.22	QP	Neutral
7	AV	1.854	17.66	9.72	27.38	46.00	-18.62	Average	Neutral
8		1.854	22.89	9.72	32.61	56.00	-23.39	QP	Neutral
9		12.785	20.68	9.93	30.61	50.00	-19.39	Average	Neutral
10	PP	12.785	35.13	9.93	45.06	60.00	-14.94	QP	Neutral
11		16.069	11.60	9.95	21.55	50.00	-28.45	Average	Neutral
12		16.069	24.68	9.95	34.63	60.00	-25.37	QP	Neutral

Remark:

- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.
- 3. If the Peak value under Average limit, the Average value is not recorded in the report.



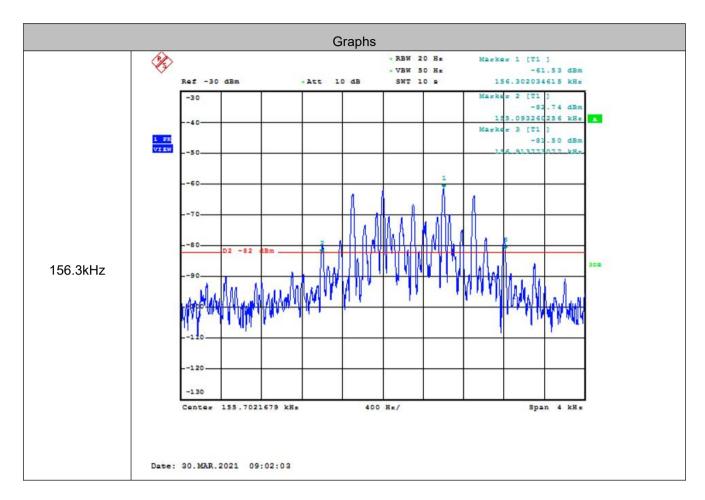
5.3 20dB Occupy Bandwidth



Measurement Data

Mode a						
Test Frequency (kHz) 20dB Occupy Bandwidth (Hz) Resul						
156.3	1821	Pass				

Test plot as follows:





5.4 Radiated Spurious Emission & Restricted bands

5.4.1 Spurious Emissions								
Test Requirement:	47 CFR Part 15C Section 15.209 and 15.205							
Test Method:	ANSI C63.10 2013							
Test Site:	Measurement Distance: 3m (Semi-Anechoic Chamber)							
Receiver Setup:	Frequency		Detector	RBW		VBW	Remark	
	0.009MHz-0.090MH	z	Peak	eak 10kH		30kHz	Peak	
	0.009MHz-0.090MH	z	Average	10kHz	z 30kHz		Average	
	0.090MHz-0.110MH	Z	Quasi-peak	10kHz	z 30kHz		Quasi-peak	
	0.110MHz-0.490MH	Z	Peak	10kHz	Z	30kHz	Peak	
	0.110MHz-0.490MH	z	Average	10kHz	<u>z</u>	30kHz	Average	
	0.490MHz -30MHz		Quasi-peak	10kHz	<u>z</u>	30kHz	Quasi-peak	
	30MHz-1GHz		Quasi-peak	100 kH	Iz 3	300kHz	Quasi-peak	
	Above 1GHz		Peak	1MHz	<u>-</u>	3MHz	Peak	
			Peak	1MHz	<u>-</u>	10Hz	Average	
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	R	emark	Measuremen distance (m)	
	0.009MHz-0.490MHz 2		400/F(kHz)	-	-		300	
	0.490MHz-1.705MHz 2		1000/F(kHz)	-	-		30	
	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	
	960MHz-1GHz		500	54.0	Quasi-peak		3	
	Above 1GHz		500	54.0	A۱	verage	3	
Note: 15.35(b), Unless otherwise specified frequency emissions is 20dB above the maximum plimit applicable to the equipment under test. This per peak emission level radiated by the device.					permitted average emission			



Shenzhen Huaxia Testing Technology Co., Ltd

Report No.: CQASZ20210600890E-01

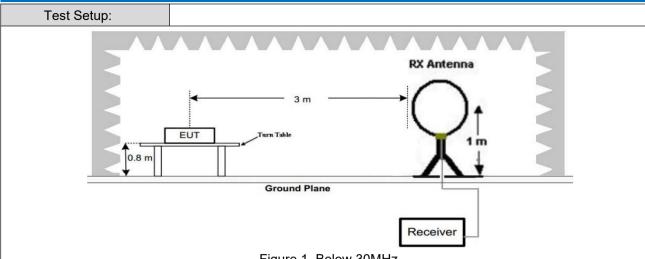
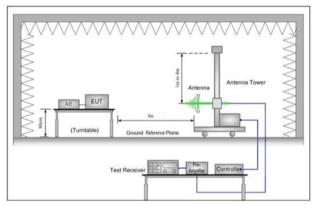


Figure 1. Below 30MHz



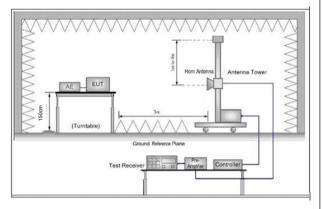


Figure 2. 30MHz to 1GHz

Figure 3. Above 1 GHz

Test Procedure:

- 1) Below 1G: 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.
 - 2) Above 1G: The EUT was placed on the top of a rotating table 1.5 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.

Note: For the radiated emission test above 1GHz:

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.

- The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- 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



Shenzhen Huaxia Testing Technology Co., Ltd

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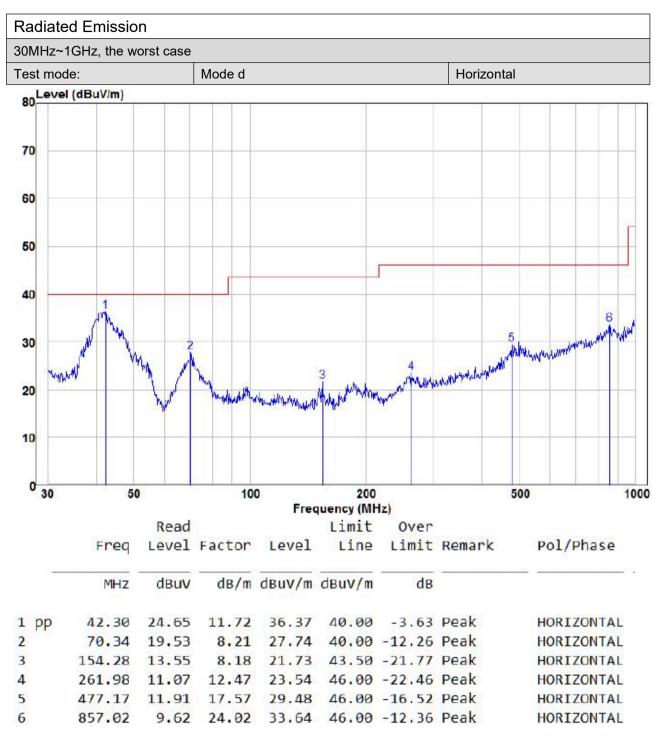
	measurement.
	d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to 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.
	g. Repeat above procedures until all frequencies measured was complete.
Test Results:	Pass

Radiated Emission below 9k~30MHz					
the worst case					
Test mode: Mode d					

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m) Peak	Limit dB(uV/m) Average	Margin dB	Pass/Fail
0.1563	Face	48.33	19.59	67.92	104.50	36.58	Pass
0.1563	Side	47.25	19.59	66.84	104.50	37.66	Pass

Note: No other emissions found between lowest internal used/generated frequencies to 30MHz. The peak level of the emission is less than the average limit, so the average level shall be less than the limit without test.





Remark:

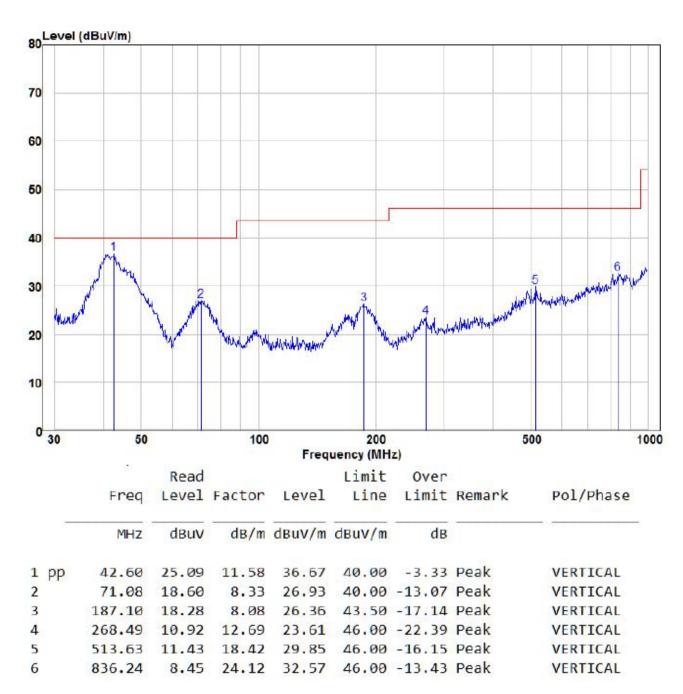
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor





30MHz~1GHz, the worst case					
Test mode:	Mode a	Vertical			



Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor

6 Photographs - EUT Test Setup

6.1 Radiated Emission

9kHz~30MHz:



30MHz~1GHz:







6.2 Conducted Emission



7 Photographs - EUT Constructional Details

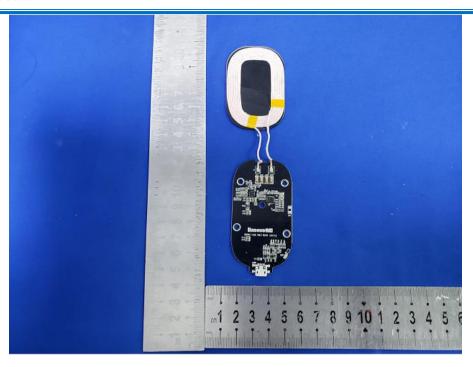
Test Model No.: WXYL-1

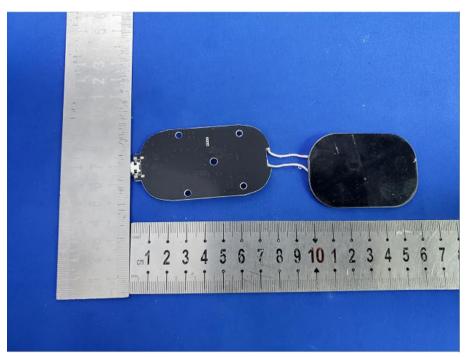






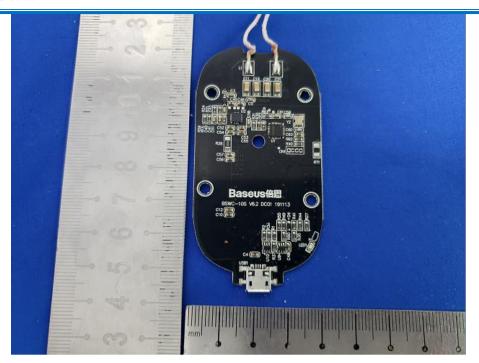


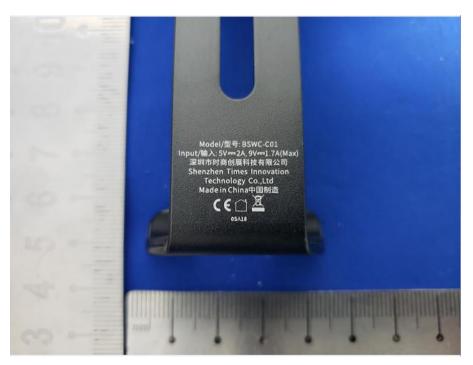












*** End of Report ***