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Report Template Version: V05 Report Template Revision Date: 2021-11-03

Test Report

Depart No.	COAS72024004620E 01
Report No.:	CQASZ20210901639E-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.
Equipment Under Test	(EUT):
Product:	Wireless Charger
Model No.:	BS-W525
Brand Name:	Baseus
FCC ID:	2AY37-W525
Standards:	47 CFR Part 15, Subpart C
Date of Receipt:	2021-9-17
Date of Test:	2021-9-17 to 2021-11-16
Date of Issue:	2021-11-17
Test Result:	PASS*
FCC ID: Standards: Date of Receipt: Date of Test: Date of Issue:	2AY37-W525 47 CFR Part 15, Subpart C 2021-9-17 2021-9-17 to 2021-11-16 2021-11-17

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

(Rock Huang) Approved By: (Jack Ai)

The test report is effective only with both signature and specialized stamp, The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CQA, this report can't be reproduced except in full.



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20210901639E-01	Rev.01	Initial report	2021-11-17



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.
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.
Factory:	Shenzhen Tongyinhai Precision Electronics Co., Ltd.Huizhou Branch
Address of Factory:	No. 27, Xingwang Street, Gaobao Road, Lilin Town, Huicheng District, Huizhou, Guangdong Province

4.2 General Description of EUT

Product Name:	Wireless Charger	
Model No.:	BS-W525	
Brand Name:	Baseus	
Hardware Version:	W525-V01	
Software Version:	W525-V1.07	
EUT Power Supply:	Input:DC 5V 2A, 9V 2A, 12V 2A	

4.3 Product Specification subjective to this standard

Equipment Category:	Non-ISM frequency
Operation Frequency range:	115kHz~205kHz
Modulation Type:	ASK
Antenna Type:	Induction coil
Antenna Gain:	0dBi
Power:	Wireless charging Output 15W Max

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:	25.8 °C			
Humidity:	59 % RH			
Atmospheric Pressure:	1009 mbar			
Conducted Emissions:				
Temperature:	25.5 °C			
Humidity:	55 % RH			
Atmospheric Pressure:	1009 mbar			
Radio conducted item test (R	RF Conducted test room):			
Temperature:	27.1 °C			
Humidity:	56 % RH			
Atmospheric Pressure:	1009 mbar			
Test Mode:	Test Mode:			
Wireless charging Output 15W Max	Wireless charging Mode at output 15W Max			

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
Wireless				
electronic Load	-	-	-	CQA

2) Cable

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



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.** quality 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.

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°C	(1)
5	Humidity test	2.0%	(1)

Hereafter the best measurement capability for CQA laboratory is reported:

(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.

4.10Other Information Requested by the Customer

None.



4.11Equipment List

Test Equipment	Manufacturer	Model No.	Instrument No.	Calibration Date	Calibration Due Date
Test Equipment					
EMI Test Receiver	R&S	ESR7	CQA-005	2021/9/10	2022/9/9
Spectrum analyzer	R&S	FSU26	CQA-038	2021/9/10	2022/9/9
		AMF-6D-02001800-29-			
Preamplifier	MITEQ	20P	CQA-036	2021/9/10	2022/9/9
Loop antenna	Schwarzbeck	FMZB1516	CQA-060	2021/9/10	2022/9/9
Bilog Antenna	R&S	HL562	CQA-011	2021/9/16	2024/9/15
Horn Antenna	R&S	HF906	CQA-012	2021/9/16	2024/9/15
Horn Antenna	Schwarzbeck	BBHA 9170	CQA-088	2021/9/16	2024/9/15
Coaxial Cable (Above 1GHz)	CQA	N/A	C007	2021/9/16	2024/9/15
Coaxial Cable (Below 1GHz)	CQA	N/A	C013	2021/9/10	2022/9/9
Antenna Connector	CQA	RFC-01	CQA-080	2021/9/10	2022/9/9
RF cable(9KHz~40GHz)	CQA	RF-01	CQA-079	2021/9/10	2022/9/9
Power divider	MIDWEST	PWD-2533-02-SMA-79	CQA-067	2021/9/10	2022/9/9
EMI Test Receiver	R&S	ESR7	CQA-005	2021/9/10	2022/9/9
LISN	R&S	ENV216	CQA-003	2021/9/10	2022/9/9
Coaxial cable	CQA	N/A	CQA-C009	2021/9/10	2022/9/9
DC power	KEYSIGHT	E3631A	CQA-028	2021/9/10	2022/9/9



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.

15.247(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.





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



Test Requirement:	47 CFR Part 15C Section 15.207						
Test Method:	ANSI C63.10: 2013						
Test Frequency Range:	150kHz to 30MHz						
Limit:	Limit (dBuV)						
	Frequency range (MHz)	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						
Test Procedure:	1) The mains terminal disturb room.	oance voltage test was	s conducted in a shi	elded			
	 2) The EUT was connected Impedance Stabilization N impedance. The power connected to a second LIS plane in the same way a multiple socket outlet strip single LISN provided the raises 3) The tabletop EUT was place 	etwork) which provides cables of all other SN 2, which was bonder as the LISN 1 for the was used to connect r ating of the LISN was r	s a $50\Omega/50\mu$ H + 5Ω units of the EUT ed to the ground reference unit being measure multiple power cables not exceeded.	linear were rence ed. A s to a			
	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. 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 and all of the interface cal			oment			
	ANSI C63.10: 2013 on cor	•					
Test Setup:	Shielding Room		Test Receiver				
AC Means AC Means LISN1 Ground Reference Plane							
Test Results:	Pass						

5.2 Conducted Emissions

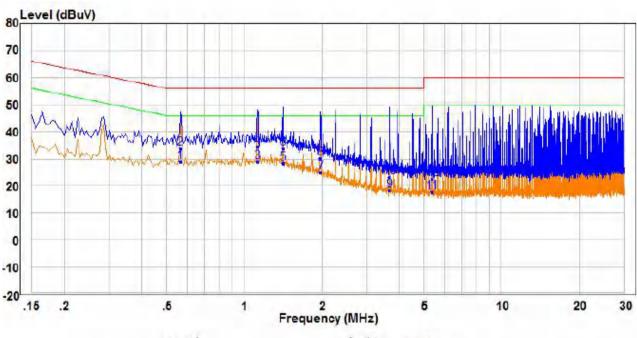


Measurement Data

The worst case:

Wireless charging Output 15W Max

Live line:



	Read		Limit	Over	
Freq	Level Factor	Level	Line	Limit Remark	Pol/Phase

-	MHz	dBuV	dB	dBuV	dBuV	dB		-
1	0.565	19.29	9.64	28.93	46.00	-17.07	Average	Line
2	0.565	24.27	9.64	33.91	56.00	-22,09	QP	Line
3 PP	1.130	19.56	9.53	29.09	46.00	-16.91	Average	Line
4 QP	1.130	24,95	9.53	34,48	56.00	-21.52	QP	Line
5	1.415	18.73	9.52	28.25	46.00	-17.75	Average	Line
6	1,415	24.16	9.52	33.68	56.00	-22.32	QP	Line
7	1.980	15.57	9.53	25.10	46.00	-20,90	Average	Line
8	1,980	20.56	9,53	30.09	56.00	-25,91	QP	Line
9	3.675	8.77	9.65	18.42	46.00	-27.58	Average	Line
10	3.675	13.59	9,65	23.24	56.00	-32.76	QP	Line
11	5.365	8.00	9.73	17.73	50.00	-32.27	Average	Line
12	5,365	12.94	9,73	22.67	60.00	-37.33	QP	Line

Remark:

1. The following Quasi-Peak and Average measurements were performed on the EUT:

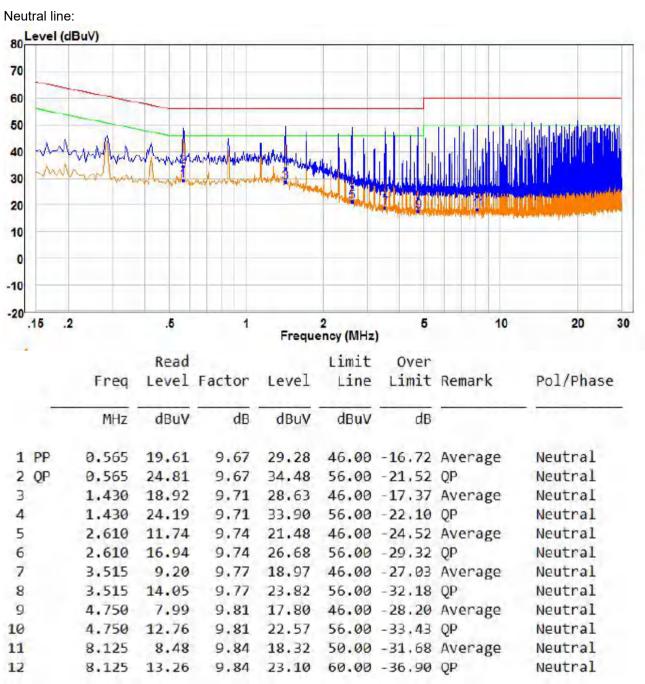
2. Final Test Level =Receiver Reading + LISN Factor + Cable Loss.

3. If the Peak value under Average limit, the Average value is not recorded in the report.



The worst case:

Wireless charging Output 15W Max



Remark:

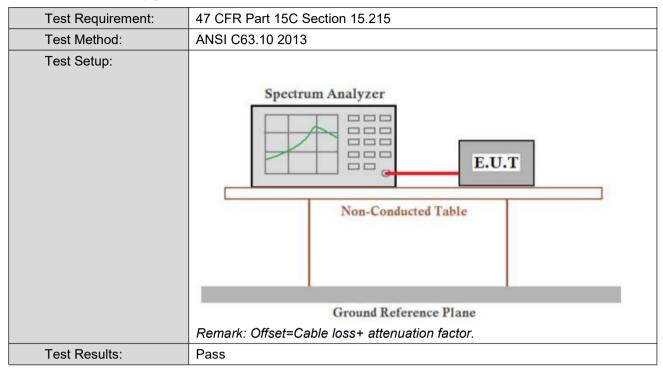
1. The following Quasi-Peak and Average measurements were performed on the EUT:

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

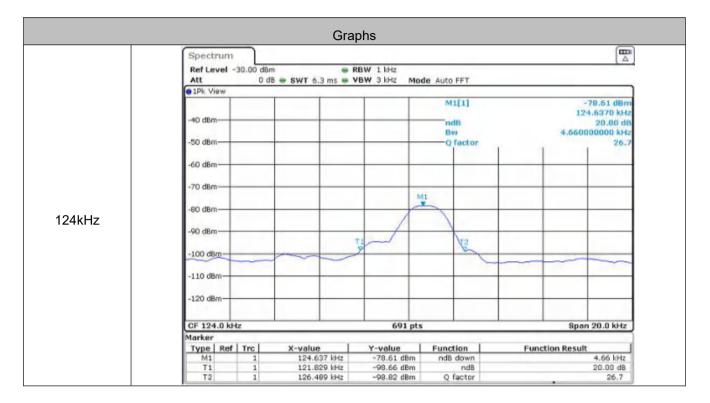


Measurement Data

Wireless charging Output 15W Max					
Test Frequency (kHz) 20dB Occupy Bandwidth (KHz) Result					
124	4.66	Pass			



Test plot as follows:



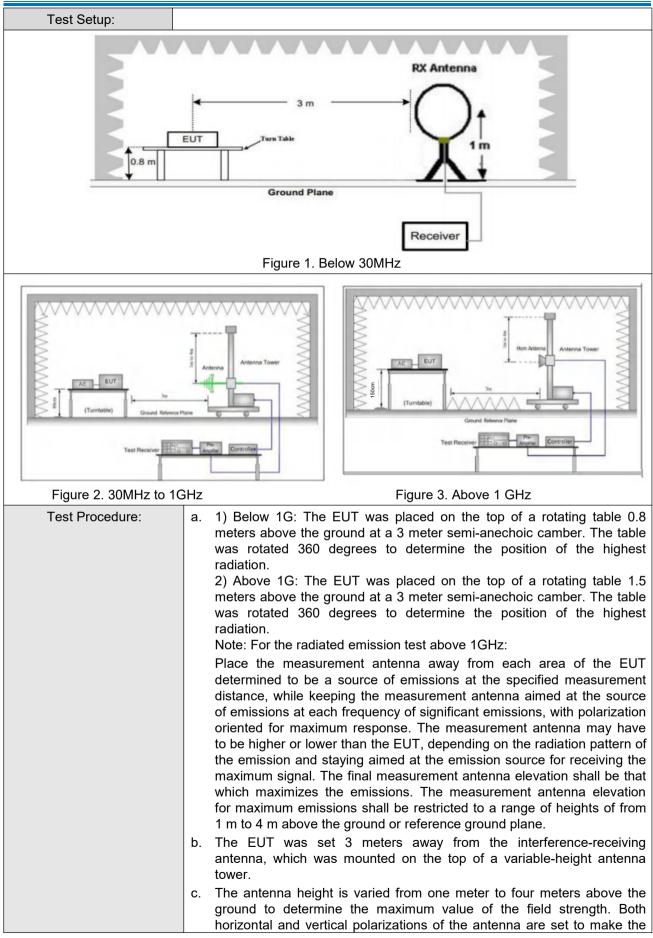


5.4 Radiated Spurious Emission & Restricted bands

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	10kHz	z 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	z 30kHz	Average				
	0.490MHz -30MHz		Quasi-peak	10kHz	z 30kHz	Quasi-peak				
	30MHz-1GHz		Quasi-peak	100 kH	lz 300kHz	Quasi-peak				
	Above 1GHz		Peak	1MHz	: 3MHz	Peak				
	Above TGHZ		Peak	1MHz	: 10Hz	Average				
Limit:	Frequency		eld strength crovolt/meter)	Limit (dBuV/m)	Remark	Measurement distance (m)				
	0.009MHz-0.490MHz	2	400/F(kHz)	-	-	300				
	0.490MHz-1.705MHz	24	1000/F(kHz)	-	-	30				
	1.705MHz-30MHz		30	-	-	30				
	30MHz-88MHz		100	40.0	Quasi-peal	x 3				
	88MHz-216MHz		150	43.5	Quasi-peal	x 3				
	216MHz-960MHz		200	46.0	Quasi-peal	x 3				
	960MHz-1GHz		500	54.0	Quasi-peal	x 3				
	Above 1GHz		500	54.0	Average	3				
	Note: 15.35(b), Unless otherwise specified, the limit on performing frequency emissions is 20dB above the maximum permitted average limit applicable to the equipment under test. This peak limit applies to peak emission level radiated by the device.									



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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

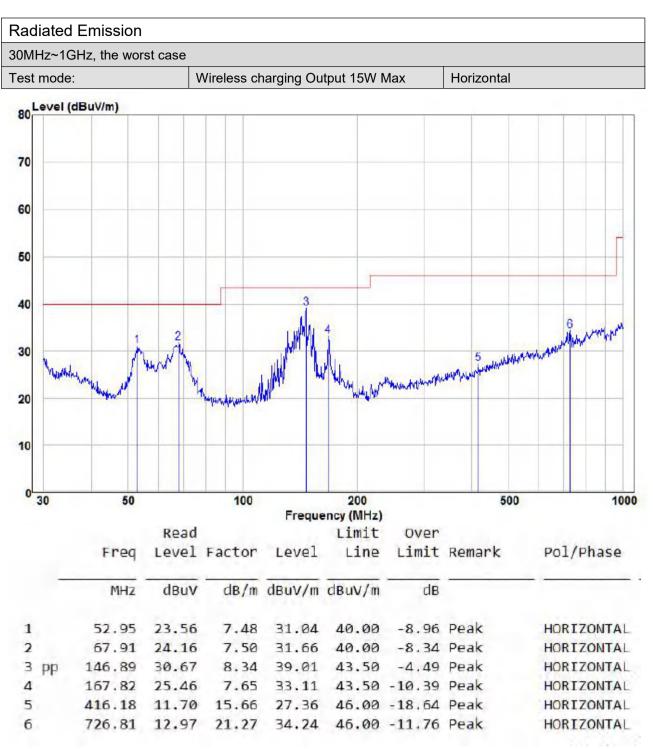
Radiated Emission below 9k~30MHz				
the worst case				
Test mode: Wireless charging Output 15W Max				

Frequency MHz	Polarization	Reading dB(uV)	Factor dB (1/m)	Level dB(uV/m)	Limit dB(uV/m)	Margin dB	Pass/Fail
0.124	Face	49.51	19.59	69.1	105.92	36.82	Pass
0.124	Side	47.64	19.59	67.23	105.92	38.69	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.



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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



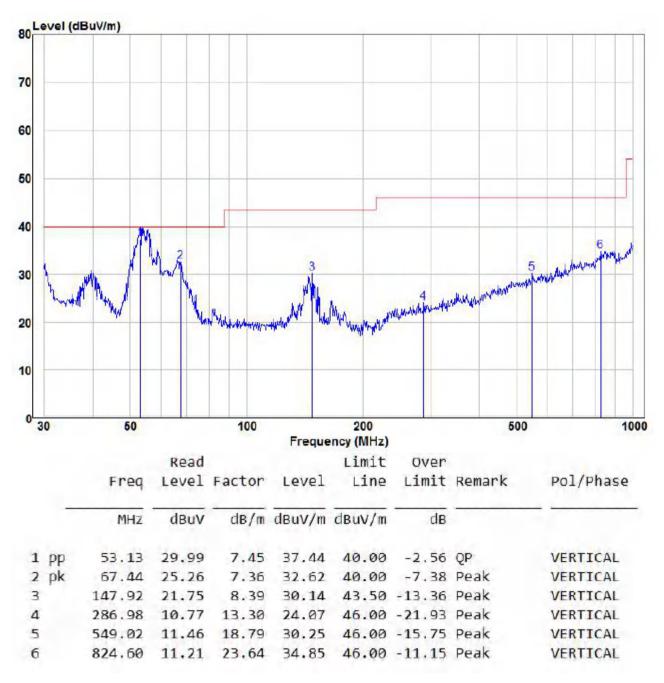
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30MHz~1GHz, the worst case

Test mode:

Wireless charging Output 15W Max

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

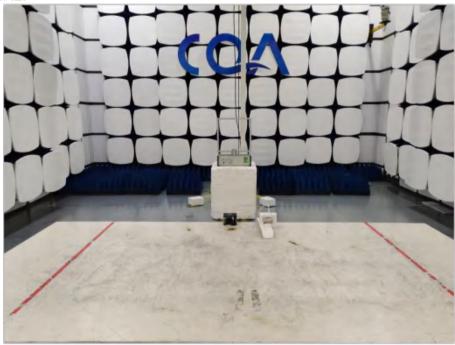




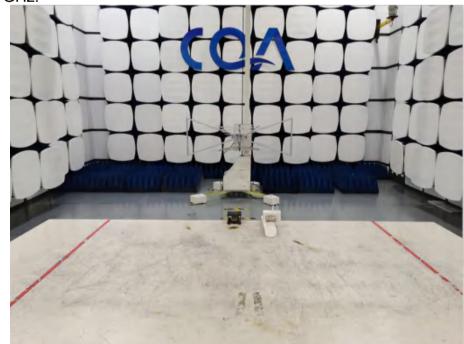
6 Photographs - EUT Test Setup

6.1 Radiated Emission

9kHz~30MHz:



30MHz~1GHz:





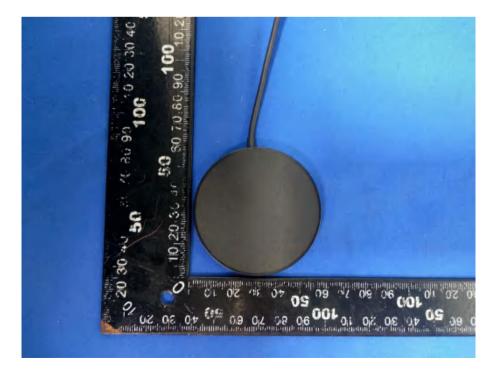
6.2 Conducted Emission





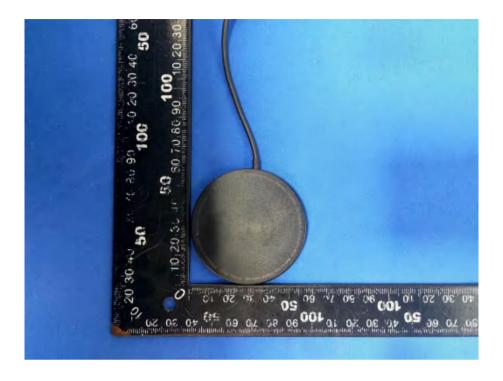
7 Photographs - EUT Constructional Details

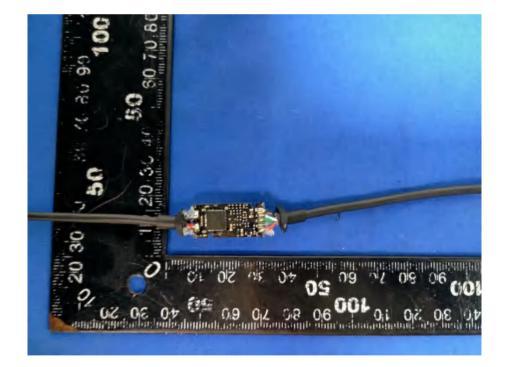






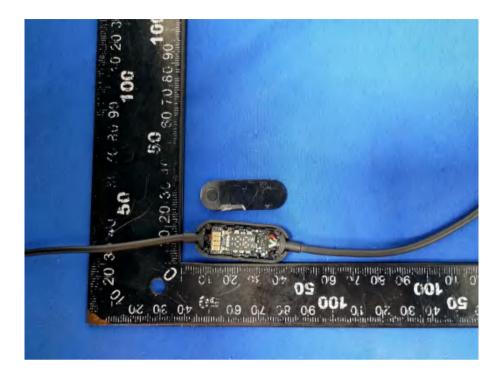
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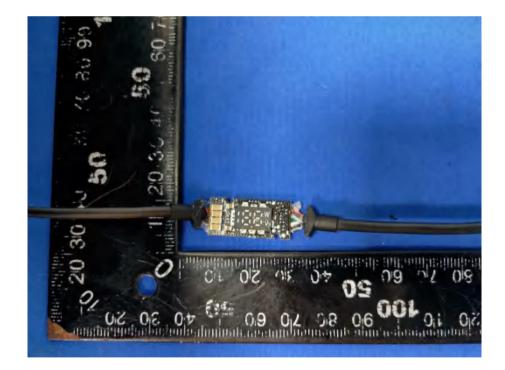






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*** End of Report ***