ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Wireless charger

Model No.: DS15W-WX

Trademark: N/A

FCC ID: 2AWCHDS15W-WX

Report No.: EA2004041F 02001

Issue Date: Apr. 28, 2020

Prepared for

Topxin Electronics Co., Ltd.
3F, Block G1, Tianyouchuangke High-tech Zone, No.2 Lixin Rd., Fuyong, Baoan, Shenzhen, China

Prepared by

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VERIFICATION OF COMPLIANCE

Applicant:	Topxin Electronics Co., Ltd. 3F, Block G1, Tianyouchuangke High-tech Zone, No.2 Lixin Rd., Fuyong, Baoan, Shenzhen, China
Manufacturer:	Topxin Electronics Co., Ltd. 3F, Block G1, Tianyouchuangke High-tech Zone, No.2 Lixin Rd., Fuyong, Baoan, Shenzhen, China
Product Description:	Wireless charger
Trade Mark:	N/A
Model Number:	DS15W-WX

We hereby certify that:

The above equipment was tested by Dong Guan Anci Electronic Technology Co., Ltd. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10-2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits of FCC Rules Part 15.209.

Date of Test : Apr. 17, 2020 to Apr. 26, 2020

Prepared by : Tomas Yang/Supervisor

Reviewer & Authorized Signer : Alan He/Manager

Modified Information

Version	Summary	Revision Date	Report No.
Ver.1.0	Original Report	/	EA2004041F 02001

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1 General Information

1.1 Product Description

Characteristics	Description
Product Name	Wireless charger
Model number	DS15W-WX
Operation Mode	Wireless Charging
Input Rating	DC 5V /3A, 9V/2A, 12V/1.5A
Power Supply	AC120V/60Hz for adapter
Operating Frequency	110-205KHz
Wireless Charging Power	15W Max
Modulation Technique	ASK
Antenna Type	Induction coil

1.2 Related Submittal(s) / Grant(s)

This submittal(s) (test report) is intended for FCC ID: 2AWCHDS15W-WX filing to comply with the FCC Part 15, Subpart C Rules.

1.3 Test Methodology

Both conducted and radiated testing was performed according to the procedures in ANSI C63.10 (2013). Radiated testing was performed at an antenna to EUT distance 3 meters.

1.4 Special Accessories

Not available for this EUT intended for grant.

1.5 Equipment Modifications

Not available for this EUT intended for grant.

1.6 Test Facility

Site Description EMC Lab.	:	Accredited by CNAS, 2017.06.26 The certificate is valid until 2022.10.28 The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2006 (identical to ISO/IEC 17025:2005) The Certificate Registration Number is L0468. Accredited by A2LA, 2018.03.15 The Certificate Number is 4422.01.
Name of Firm	:	Dong Guan Anci Electronic Technology Co., Ltd.
Site Location	:	1-2 Floor, Building A, No.11, Headquarters 2 Road, Songshan, Lake Hi-tech Industrial Development Zone, Dongguan City,evelopment Zone, Dongguan City, Guangdong Pr., China.

2 System Test Configuration

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.10-2013 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.

2.3.2 Radiated Emissions

The EUT is a placed on as turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the fixed in a particular direction according to the requirements in Section 13.1.4.1 of ANSI C63.10-2013.

2.4 Configuration of Tested System

Fig. 2-1 Configuration of Tested System

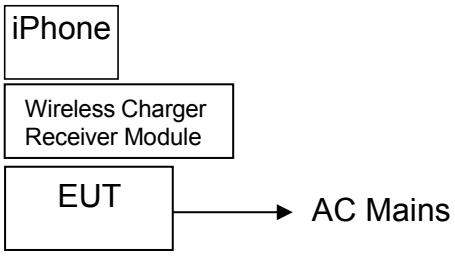


Table 2-1 Equipment Used in Tested System

Item	Equipment	Trade Mark	Model No.	FCC ID	Note
1.	Wireless charger	Raffel Systems	DS15W-WX	2AWCHDS15W-WX	***EUT***
2.	Adapter	MI	Model:MDY-08-EH Input: AC 100-240V, 50/60Hz Output: DC 5V/2.5A,DC 9/2A	N/A	***Support EUT***
3.	iPhone	Apple	A1524	N/A	***Support Equipment***
4.	SAMSUNG S9	SAMSUNG	Samsung Galaxy S9	N/A	***Support Equipment***
5.	Xiaomi 9	MI	Xiaomi 9	N/A	***Support Equipment***
6.	Wireless Charger Receiver Module	Universal	N/A	N/A	***Support Equipment***

Note:
(1) Unless otherwise denoted as EUT in『Remark』column, device(s) used in tested system is a support equipment.

3 Summary of Test Results

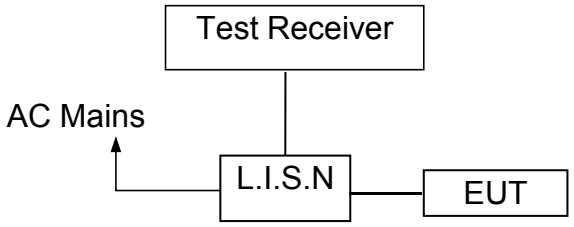
FCC Rules	Description Of Test	Result
§15.207	AC Power Conducted Emission	Compliant
§15.209	Radiated Emission	Compliant
§2.1049	20dB Bandwidth	Compliant
§15.203	Antenna Requirement	Compliant

4 Conducted Emissions Test

4.1 Measurement Procedure

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all frequency measured was complete.

4.2 Test SET-UP (Block Diagram of Configuration)



4.3 Measurement Equipment Used

EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2020-05-19
10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2020-05-19
RF Cable	N/A	N/A	2#	2020-05-19
EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2020-05-19

4.4 Conducted Emission Limit

Conducted Emission

Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50

Note: 1. The lower limit shall apply at the transition frequencies

2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.

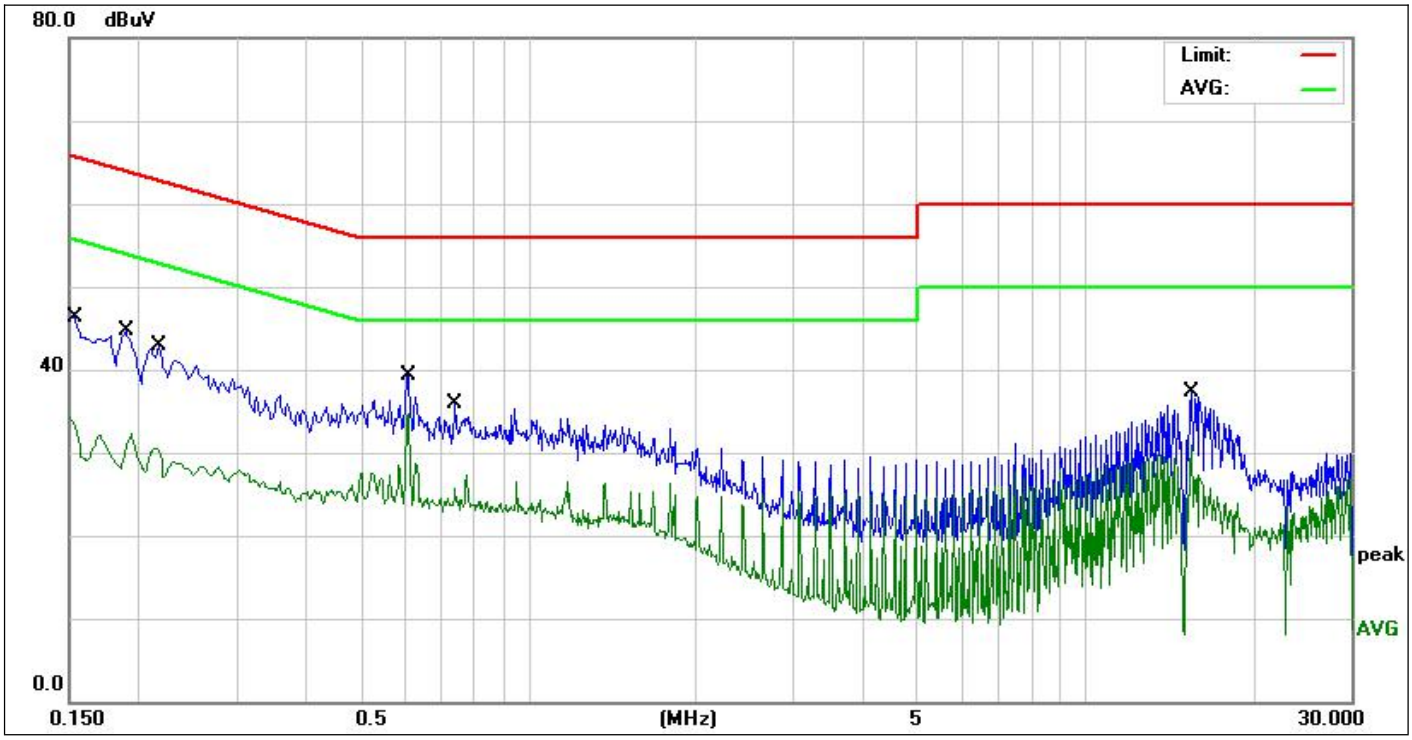
4.5 Measurement Result

Operation Mode:	TX	Test Date :	Apr. 21, 2020
Frequency Range:	0.15MHz~30MHz	Temperature :	28℃
Test Result:	PASS	Humidity :	65 %
Test By:	Best		

Pass

We pretested modes (Wireless Charging(15W),Wireless Charging(10W),Wireless Charging(5W)) for EUT. The test data see follow the table.

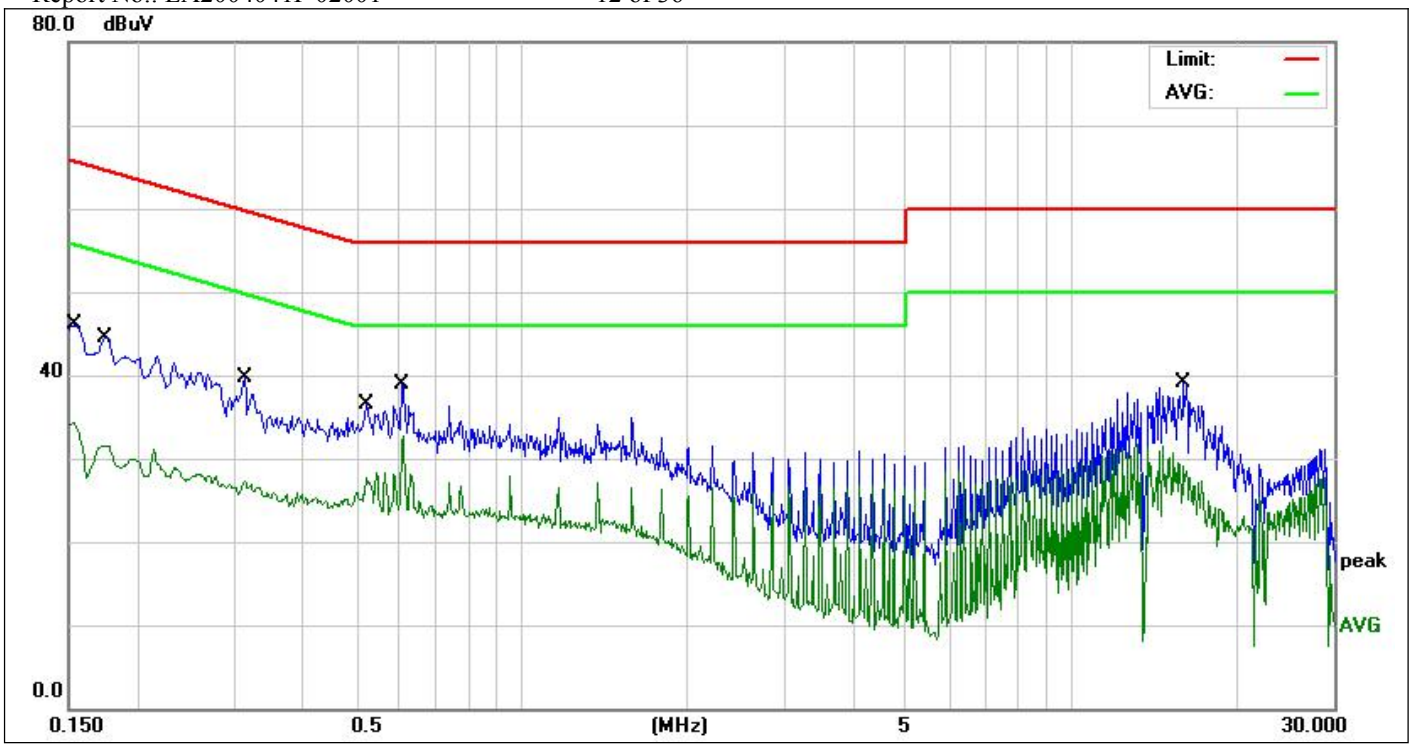
Test mode: Wireless Charging 5W use iphone



Site:	**843**	**Phase:N**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	32.43	9.73	42.16	65.78	-23.62	QP	
2	0.1539	22.16	9.73	31.89	55.78	-23.89	AVG	
3	0.1900	29.73	9.76	39.49	64.03	-24.54	QP	
4	0.1900	20.40	9.76	30.16	54.03	-23.87	AVG	
5	0.2180	28.02	9.77	37.79	62.89	-25.10	QP	
6	0.2180	18.98	9.77	28.75	52.89	-24.14	AVG	
7	0.6100	27.68	9.79	37.47	56.00	-18.53	QP	
8 *	0.6100	25.41	9.79	35.20	46.00	-10.80	AVG	
9	0.7420	19.11	9.81	28.92	56.00	-27.08	QP	
10	0.7420	13.95	9.81	23.76	46.00	-22.24	AVG	
11	15.5340	10.33	10.07	20.40	60.00	-39.60	QP	
12	15.5340	4.16	10.07	14.23	50.00	-35.77	AVG	

*:Maximum data x:Over limit !:over margin

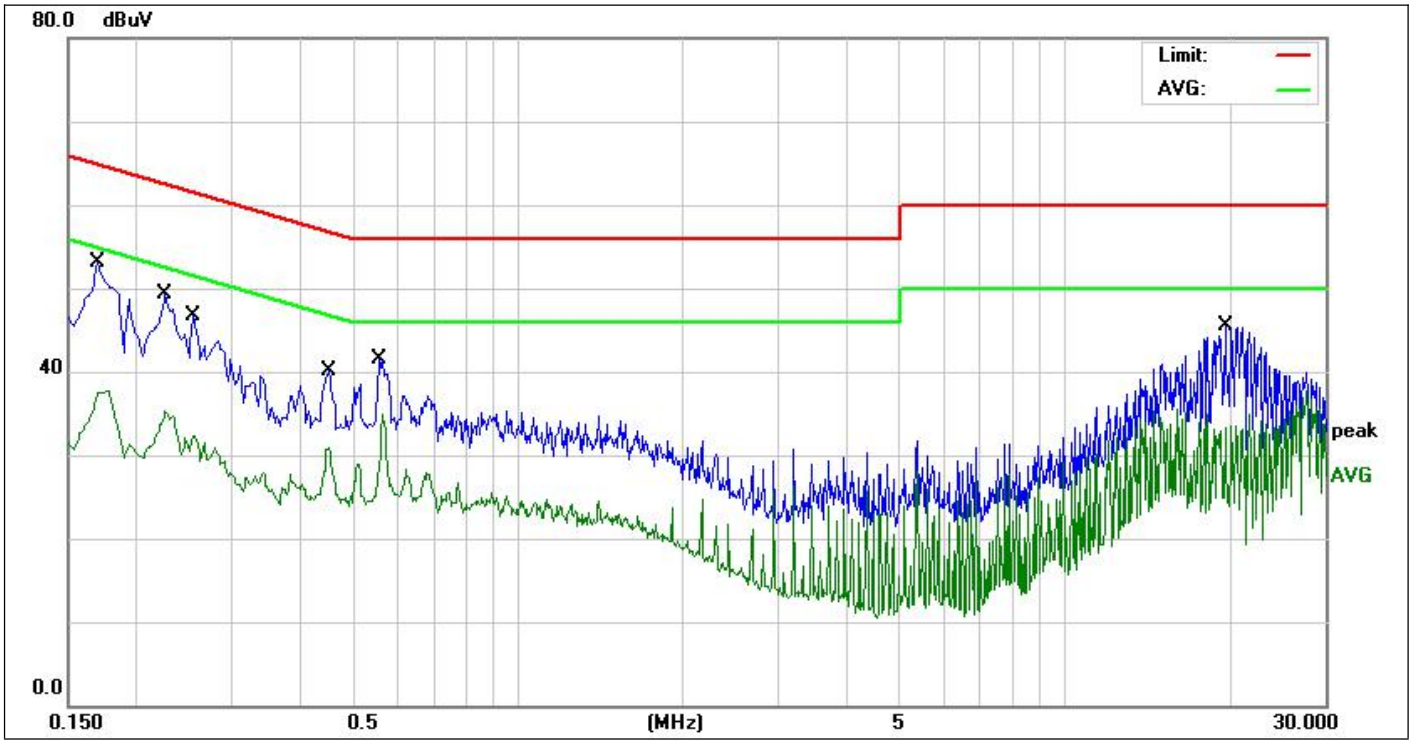


Site:	**843**	**Phase:L1**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1539	34.49	9.73	44.22	65.78	-21.56	QP	
2	0.1539	24.82	9.73	34.55	55.78	-21.23	AVG	
3	0.1740	31.49	9.75	41.24	64.76	-23.52	QP	
4	0.1740	21.68	9.75	31.43	54.76	-23.33	AVG	
5	0.3140	22.64	9.78	32.42	59.86	-27.44	QP	
6	0.3140	16.63	9.78	26.41	49.86	-23.45	AVG	
7	0.5220	22.26	9.77	32.03	56.00	-23.97	QP	
8	0.5220	17.67	9.77	27.44	46.00	-18.56	AVG	
9	0.6060	25.28	9.79	35.07	56.00	-20.93	QP	
10 *	0.6060	22.25	9.79	32.04	46.00	-13.96	AVG	
11	15.9940	22.72	10.09	32.81	60.00	-27.19	QP	
12	15.9940	15.60	10.09	25.69	50.00	-24.31	AVG	

*:Maximum data x:Over limit !:over margin

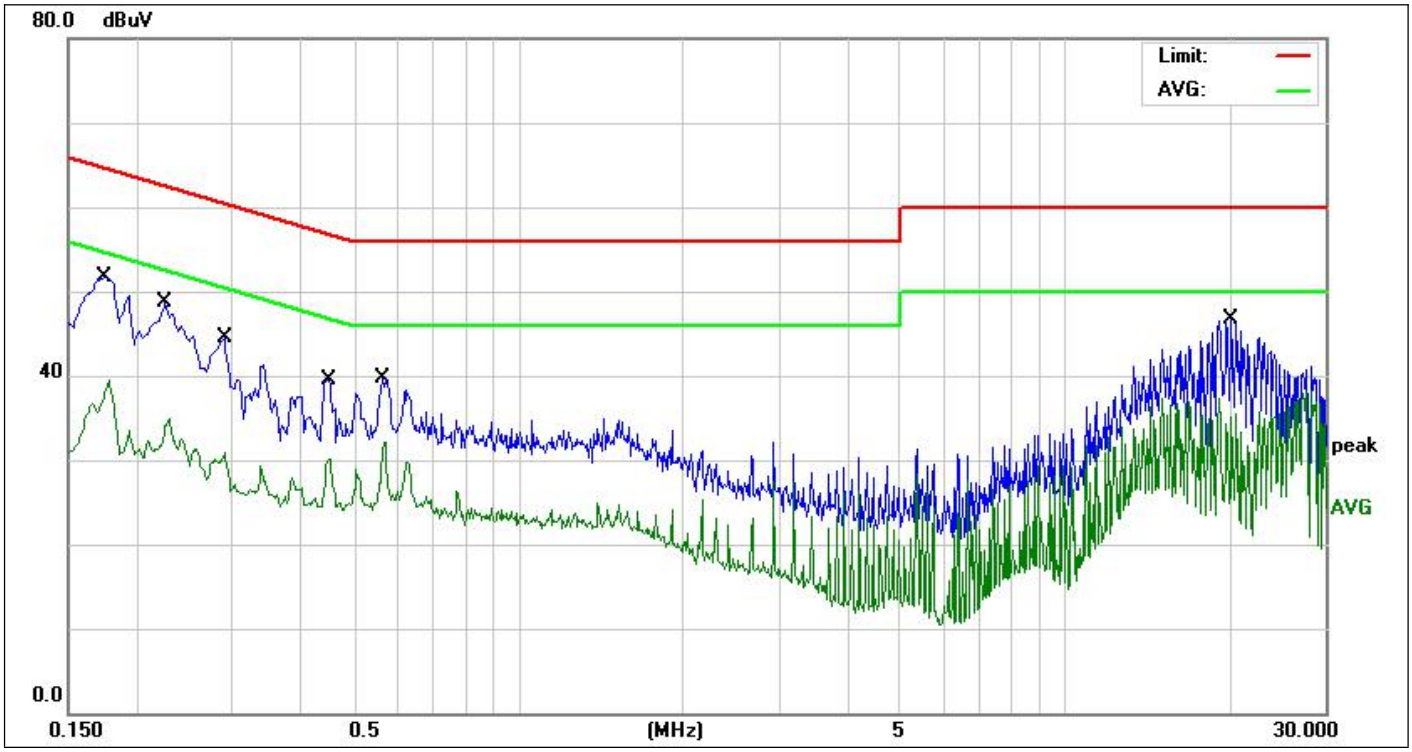
Test mode: Wireless Charging 10W use Samsung S9



Site:	**843**	**Phase:N**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1 *	0.1700	38.75	9.75	48.50	64.96	-16.46	QP	
2	0.1700	27.23	9.75	36.98	54.96	-17.98	AVG	
3	0.2260	35.12	9.78	44.90	62.59	-17.69	QP	
4	0.2260	24.11	9.78	33.89	52.59	-18.70	AVG	
5	0.2540	27.54	9.77	37.31	61.62	-24.31	QP	
6	0.2540	19.73	9.77	29.50	51.62	-22.12	AVG	
7	0.4500	25.15	9.78	34.93	56.87	-21.94	QP	
8	0.4500	19.95	9.78	29.73	46.87	-17.14	AVG	
9	0.5580	25.43	9.78	35.21	56.00	-20.79	QP	
10	0.5580	19.22	9.78	29.00	46.00	-17.00	AVG	
11	19.6580	32.86	10.20	43.06	60.00	-16.94	QP	
12	19.6580	22.95	10.20	33.15	50.00	-16.85	AVG	

*:Maximum data x:Over limit !:over margin

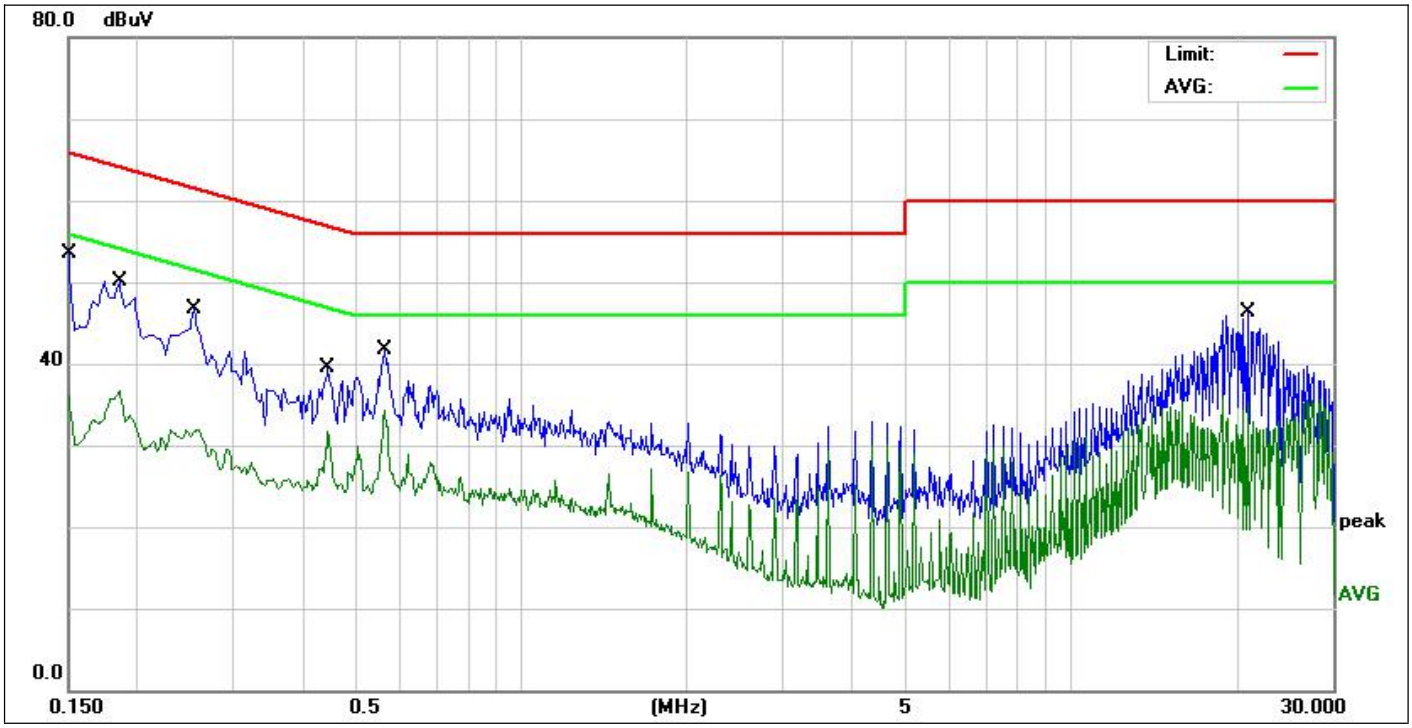


Site:	**843**	**Phase:L1**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1740	39.50	9.75	49.25	64.76	-15.51	QP	
2	0.1740	28.07	9.75	37.82	54.76	-16.94	AVG	
3	0.2260	35.51	9.78	45.29	62.59	-17.30	QP	
4	0.2260	23.57	9.78	33.35	52.59	-19.24	AVG	
5	0.2900	27.86	9.78	37.64	60.52	-22.88	QP	
6	0.2900	18.98	9.78	28.76	50.52	-21.76	AVG	
7	0.4500	25.09	9.78	34.87	56.87	-22.00	QP	
8	0.4500	19.45	9.78	29.23	46.87	-17.64	AVG	
9	0.5660	26.02	9.78	35.80	56.00	-20.20	QP	
10 *	0.5660	21.44	9.78	31.22	46.00	-14.78	AVG	
11	20.1740	29.76	10.22	39.98	60.00	-20.02	QP	
12	20.1740	17.51	10.22	27.73	50.00	-22.27	AVG	

*:Maximum data x:Over limit !:over margin

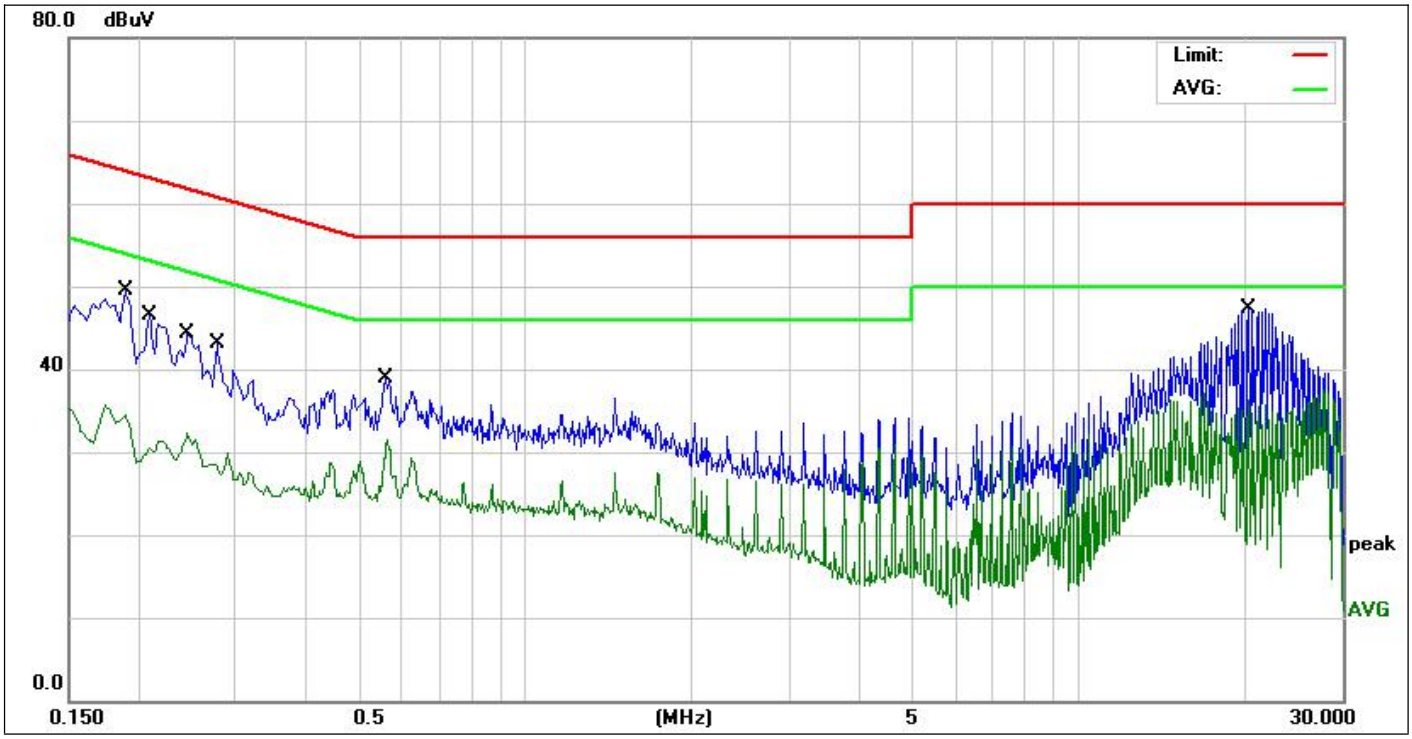
Test mode: Wireless Charging 15W use Xiaomi 9



Site:	**843**	**Phase:N**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1500	35.47	9.73	45.20	65.99	-20.79	QP	
2	0.1500	22.18	9.73	31.91	55.99	-24.08	AVG	
3	0.1860	36.25	9.76	46.01	64.21	-18.20	QP	
4	0.1860	25.58	9.76	35.34	54.21	-18.87	AVG	
5	0.2540	29.07	9.77	38.84	61.62	-22.78	QP	
6	0.2540	20.61	9.77	30.38	51.62	-21.24	AVG	
7	0.4460	24.73	9.78	34.51	56.95	-22.44	QP	
8	0.4460	19.27	9.78	29.05	46.95	-17.90	AVG	
9	0.5660	28.11	9.78	37.89	56.00	-18.11	QP	
10 *	0.5660	23.56	9.78	33.34	46.00	-12.66	AVG	
11	20.9500	32.44	10.23	42.67	60.00	-17.33	QP	
12	20.9500	21.50	10.23	31.73	50.00	-18.27	AVG	

*:Maximum data x:Over limit !:over margin

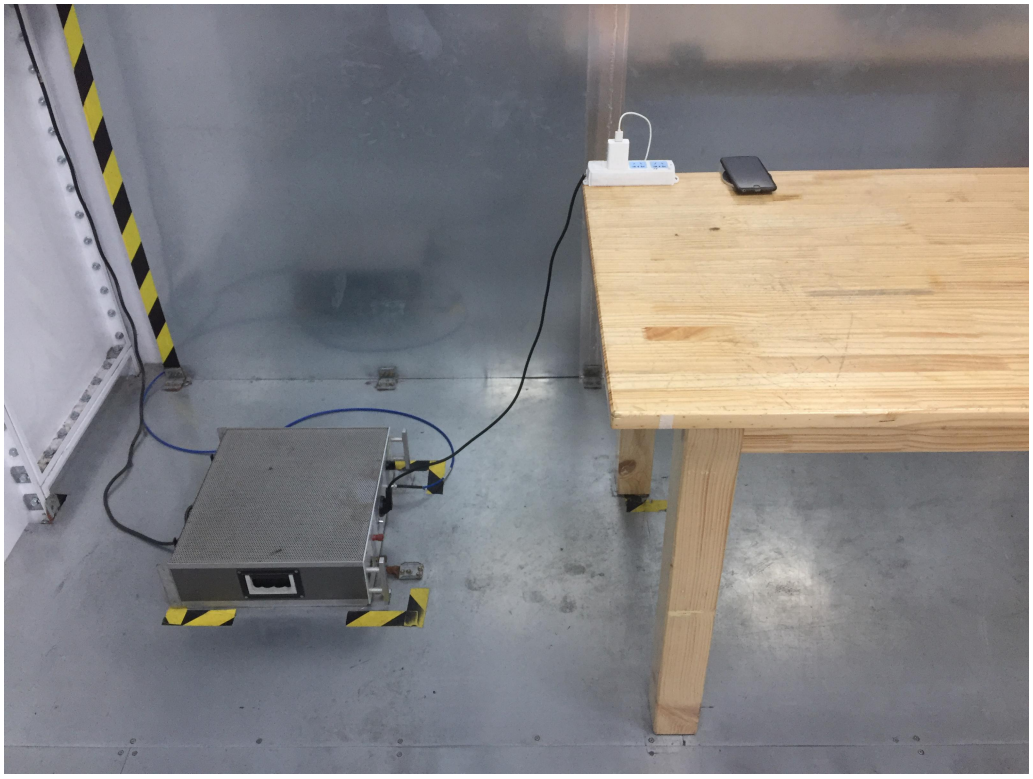


Site:	**843**	**Phase:L1**	**Temperature(C):26(C)**
Limit:	**FCC Part 15 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Wireless Charger**	**Test Time:**	**Apr. 21, 2020**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1900	34.25	9.76	44.01	64.03	-20.02	QP	
2	0.1900	23.75	9.76	33.51	54.03	-20.52	AVG	
3	0.2100	30.01	9.77	39.78	63.20	-23.42	QP	
4	0.2100	20.62	9.77	30.39	53.20	-22.81	AVG	
5	0.2460	28.83	9.78	38.61	61.89	-23.28	QP	
6	0.2460	20.40	9.78	30.18	51.89	-21.71	AVG	
7	0.2779	24.82	9.78	34.60	60.88	-26.28	QP	
8	0.2779	17.70	9.78	27.48	50.88	-23.40	AVG	
9	0.5620	25.59	9.78	35.37	56.00	-20.63	QP	
10 *	0.5620	20.96	9.78	30.74	46.00	-15.26	AVG	
11	20.3740	14.05	10.22	24.27	60.00	-35.73	QP	
12	20.3740	8.13	10.22	18.35	50.00	-31.65	AVG	

*:Maximum data x:Over limit !:over margin

4.6 Conducted Measurement Photo



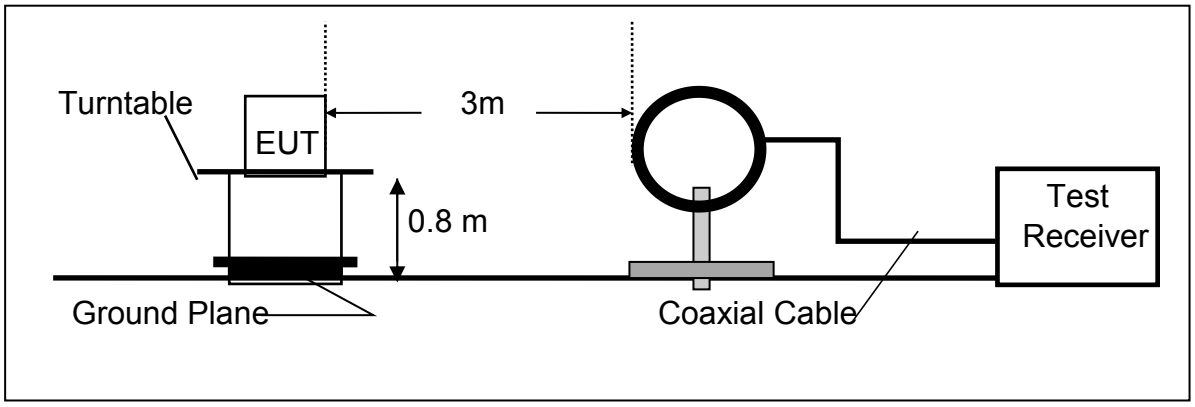
5 Radiated Emission Test

5.1 Measurement Procedure

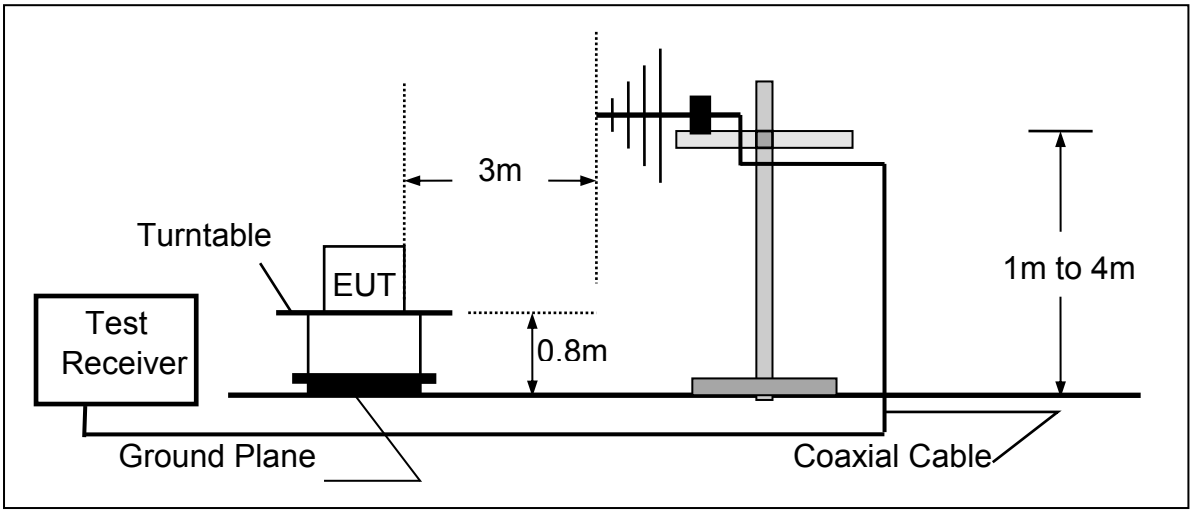
1. The EUT was placed on a turn table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
4. Repeat above procedures until all frequency measured were complete.

5.2 Test SET-UP (Block Diagram of Configuration)

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



(B) Radiated Emission Test Set-Up, Frequency Below 1000MHz



5.3 Measurement Equipment Used

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
1.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2020-11-28
2.	Pre-Amplifier	HP	8447D	2727A06172	2020-05-19
3.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2020-05-19
4.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2020-11-28
5.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2020-11-28
6.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2020-11-28
7.	RF Cable	N/A	N/A	6#	2020-05-19
8.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2020-05-19
9.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

5.4 Radiated Emission Limit

The emissions from an intentional radiator shall not exceed the field strength levels specified in the following table 15.209(a):

FCC Part 15.209				
Frequency (MHz)	Field Strength Limitation		Field Strength Limitation Frequency tion at 3m Measurement Dist	
	(uV/m)	Dist	(uV/m)	(dBuV/m)
0.009 – 0.490	2400 / F(KHz)	300m	10000 * 2400/F(KHz)	20log 2400/F(KHz) + 80
0.490 – 1.705	24000 / F(KHz)	30m	100 * 24000/F(KHz)	20log 24000/F(KHz) + 40
1.705 – 30.00	30	30m	100* 30	20log 30 + 40
30.0 – 88.0	100	3m	100	20log 100
88.0 – 216.0	150	3m	150	20log 150
216.0 – 960.0	200	3m	200	20log 200
Above 960.0	500	3m	500	20log 500

15.205 Restricted bands of operation

MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
[1]0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 - 4.20775	73 - 74.6	1645.5 - 1646.5	9.3 - 9.5
6.215 - 6.218	74.8 - 75.2	1660 - 1710	10.6 - 12.7
6.26775 - 6.26825	108 - 121.94	1718.8 - 1722.2	13.25 - 13.4
6.31175 - 6.31225	123 - 138	2200 - 2300	14.47 - 14.5
8.291 - 8.294	149.9 - 150.05	2310 - 2390	15.35 - 16.2
8.362 - 8.366	156.52475 - 156.52525	2483.5 - 2500	17.7 - 21.4
8.37625 - 8.38675	156.7 - 156.9	2690 - 2900	22.01 - 23.12
8.41425 - 8.41475	162.0125 - 167.17	3260 - 3267	23.6 - 24.0
12.29 - 12.293	167.72 - 173.2	3332 - 3339	31.2 - 31.8
12.51975 - 12.52025	240 - 285	3345.8 - 3358	36.43 - 36.5
12.57675 - 12.57725	322 - 335.4	3600 - 4400	([2])

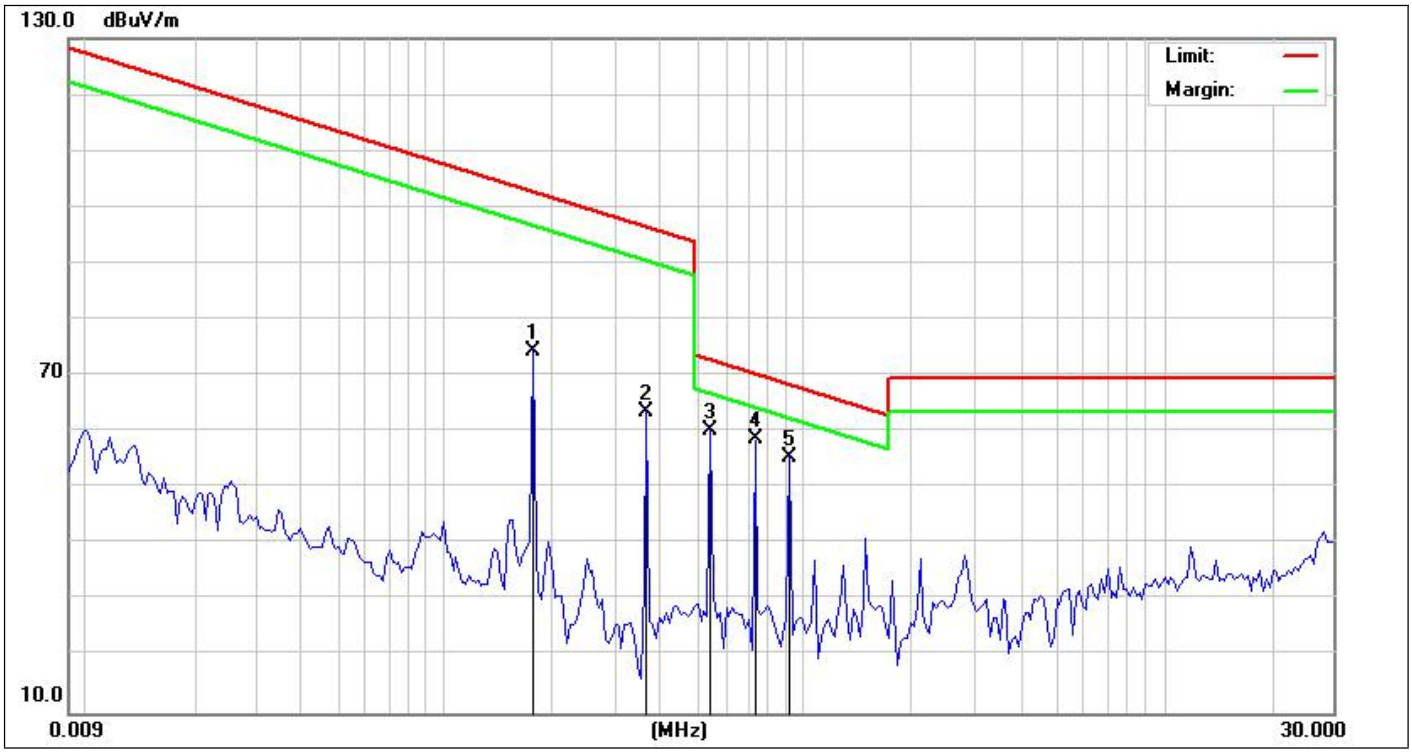
Remark: 1. Emission level in dBuV/m=20 log (uV/m)

2. Measurement was performed at an antenna to the closed point of EUT distance of meters.

3. Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of ξ 15.205, and the emissions located in restricted bands also comply with 15.209 limit.

5.5 Measurement Result

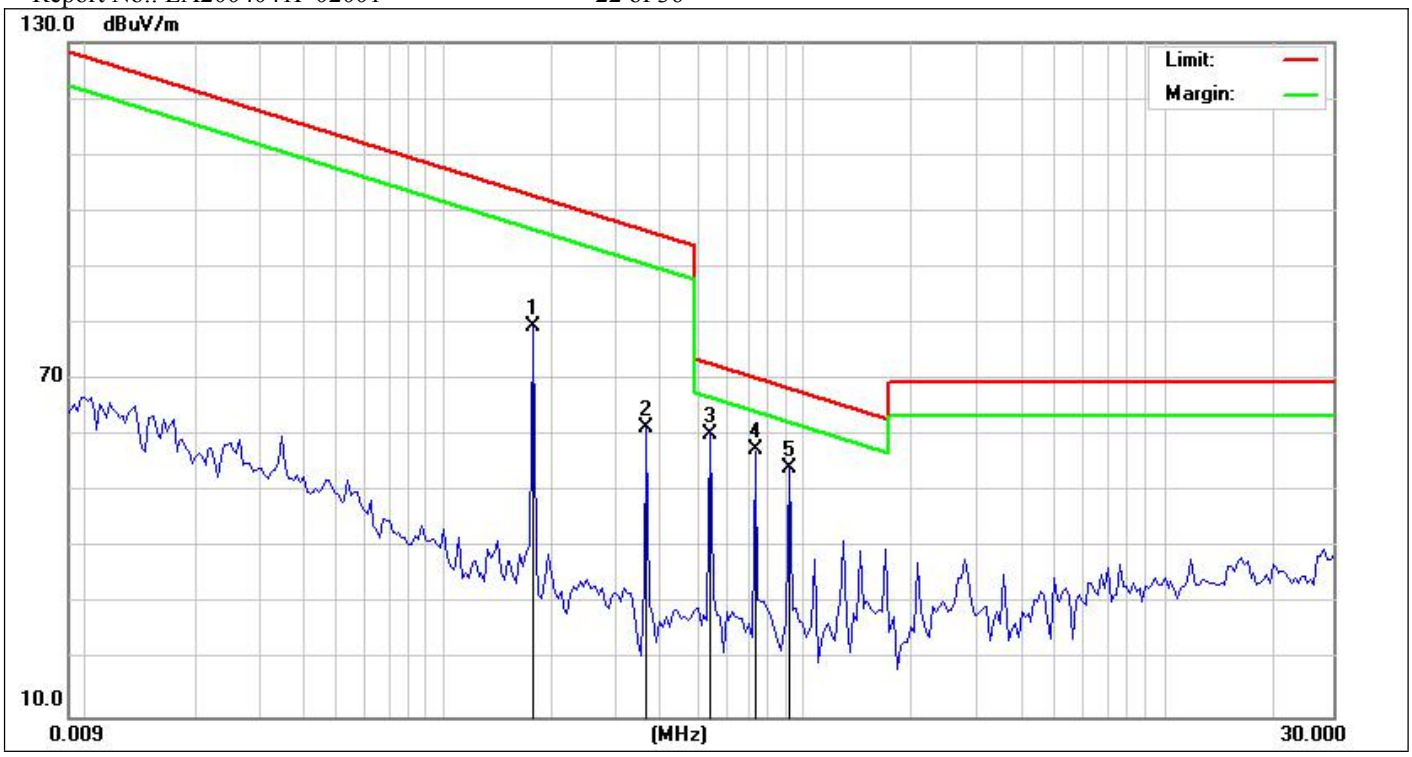
We pretested modes (Wireless Charging(15W),Wireless Charging(10W),Wireless Charging(5W)) for EUT. The worst mode (Wireless Charging(15W))test data see follow the table.



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1800	83.12	-8.77	74.35	102.44	-28.09	QP			
2	0.3602	72.20	-8.68	63.52	96.45	-32.93	QP			
3	0.5421	68.51	-8.16	60.35	72.92	-12.57	QP			
4 *	0.7213	66.17	-7.55	58.62	70.45	-11.83	QP			
5	0.9035	62.77	-7.36	55.41	68.50	-13.09	QP			
6	0.1800	83.12	-8.77	74.35	102.44	-28.09	QP			

*:Maximum data x:Over limit !:over margin



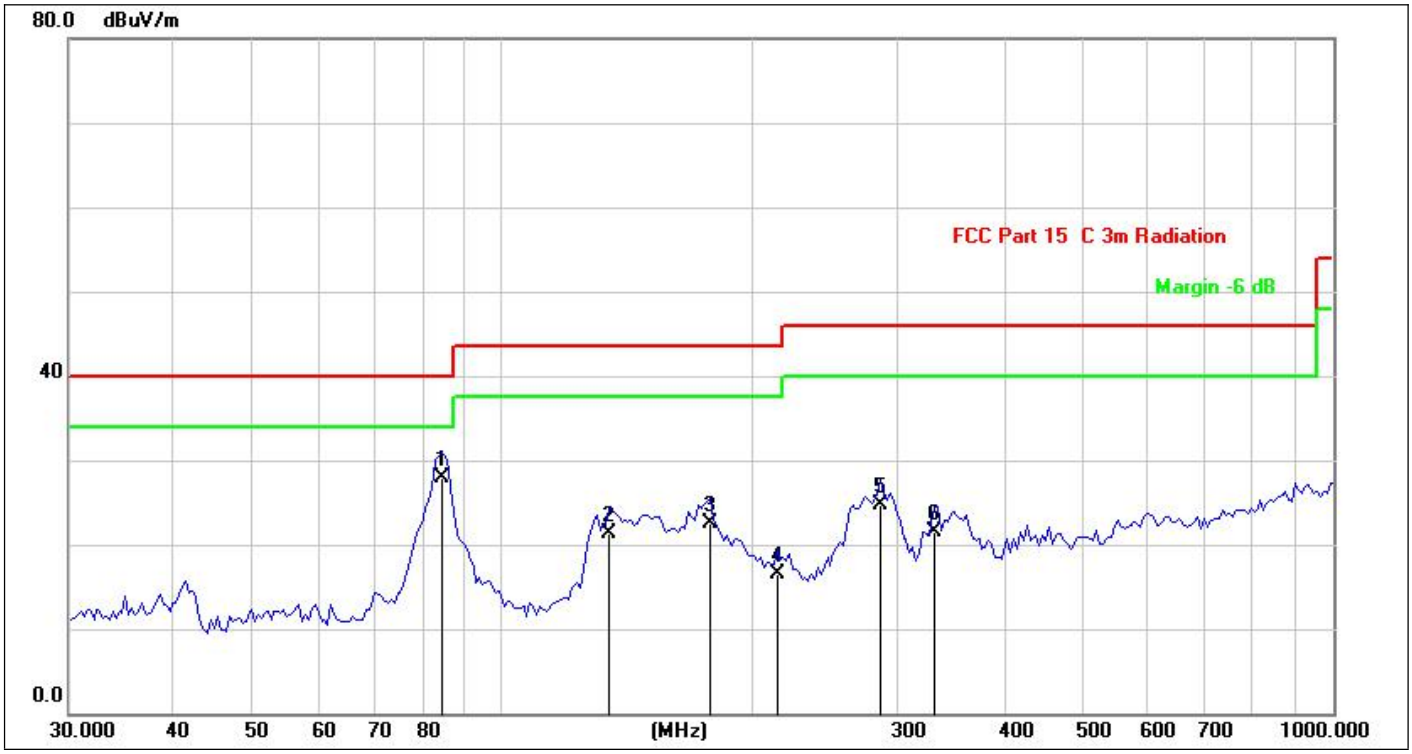
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	0.1800	88.13	-8.77	79.36	102.44	-23.08	QP			
2	0.3602	70.24	-8.68	61.56	96.45	-34.89	QP			
3 *	0.5421	68.48	-8.16	60.32	72.92	-12.60	QP			
4	0.7213	65.07	-7.55	57.52	70.45	-12.93	QP			
5	0.9035	61.72	-7.36	54.36	68.50	-14.14	QP			
1	0.1800	88.13	-8.77	79.36	102.44	-23.08	QP			

Note: (1) All Readings are Peak Value.
(2) Emission Level= Reading Level+Probe Factor +Cable Loss.
(3) The average measurement was not performed when the peak measured data under the limit of average detection.
(4) EUT lying on the table position is the worst case result in the report.

We pretested modes (Wireless Charging(15W), Wireless Charging(10W),Wireless Charging(5W)) for EUT. The test data see follow the table.

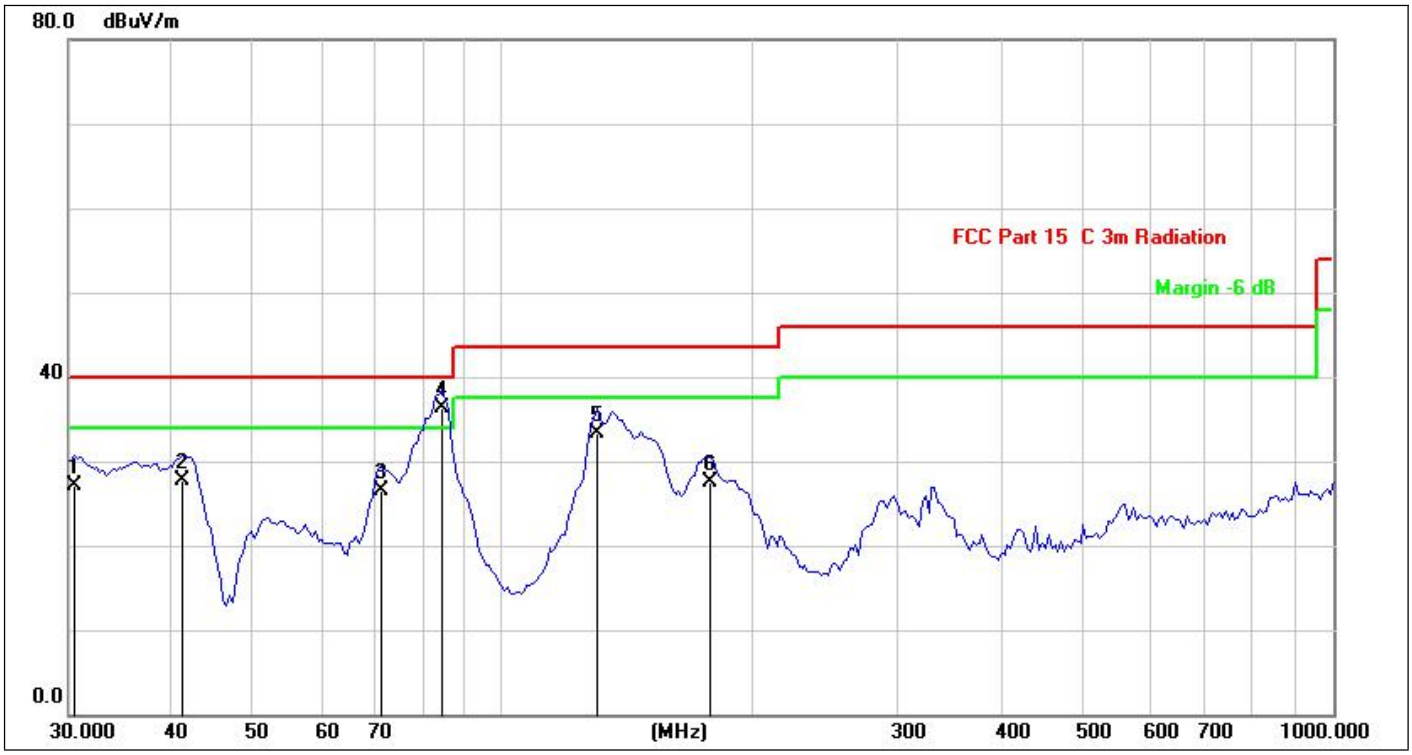
Test mode: Wireless Charging 5W use iphone



Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1 *	84.4054	46.74	-18.88	27.86	40.00	-12.14	QP			
2	134.3235	40.83	-19.51	21.32	43.50	-22.18	QP			
3	177.8207	40.91	-18.39	22.52	43.50	-20.98	QP			
4	213.7634	33.05	-16.49	16.56	43.50	-26.94	QP			
5	285.4768	38.76	-13.99	24.77	46.00	-21.23	QP			
6	331.3546	34.65	-13.11	21.54	46.00	-24.46	QP			

*:Maximum data x:Over limit !:over margin



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.5305	45.31	-18.13	27.18	40.00	-12.82	QP			
2	41.1319	44.60	-16.95	27.65	40.00	-12.35	QP			
3	71.4552	44.75	-18.27	26.48	40.00	-13.52	QP			
4 *	84.4054	55.13	-18.88	36.25	40.00	-3.75	QP			
5	129.6949	52.43	-19.12	33.31	43.50	-10.19	QP			
6	177.8206	45.87	-18.39	27.48	43.50	-16.02	QP			

*:Maximum data x:Over limit !:over margin

Test mode: Wireless Charging 10W use Samsung S9

Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.0000	51.49	-18.18	33.31	40.00	-6.69	QP			
2	41.8596	50.75	-16.99	33.76	40.00	-6.24	QP			
3 *	82.2146	54.94	-18.73	36.21	40.00	-3.79	QP			
4	127.4409	51.65	-18.87	32.78	43.50	-10.72	QP			
5	173.2051	46.96	-18.48	28.48	43.50	-15.02	QP			
6	250.3012	51.16	-15.24	35.92	46.00	-10.08	QP			

*:Maximum data x:Over limit !:over margin

Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	41.8596	33.88	-16.99	16.89	40.00	-23.11	QP			
2 *	83.6688	49.30	-18.83	30.47	40.00	-9.53	QP			
3	129.6950	38.57	-19.12	19.45	43.50	-24.05	QP			
4	173.2051	40.53	-18.48	22.05	43.50	-21.45	QP			
5	215.6456	38.81	-16.40	22.41	43.50	-21.09	QP			
6	254.7284	50.27	-15.07	35.20	46.00	-10.80	QP			

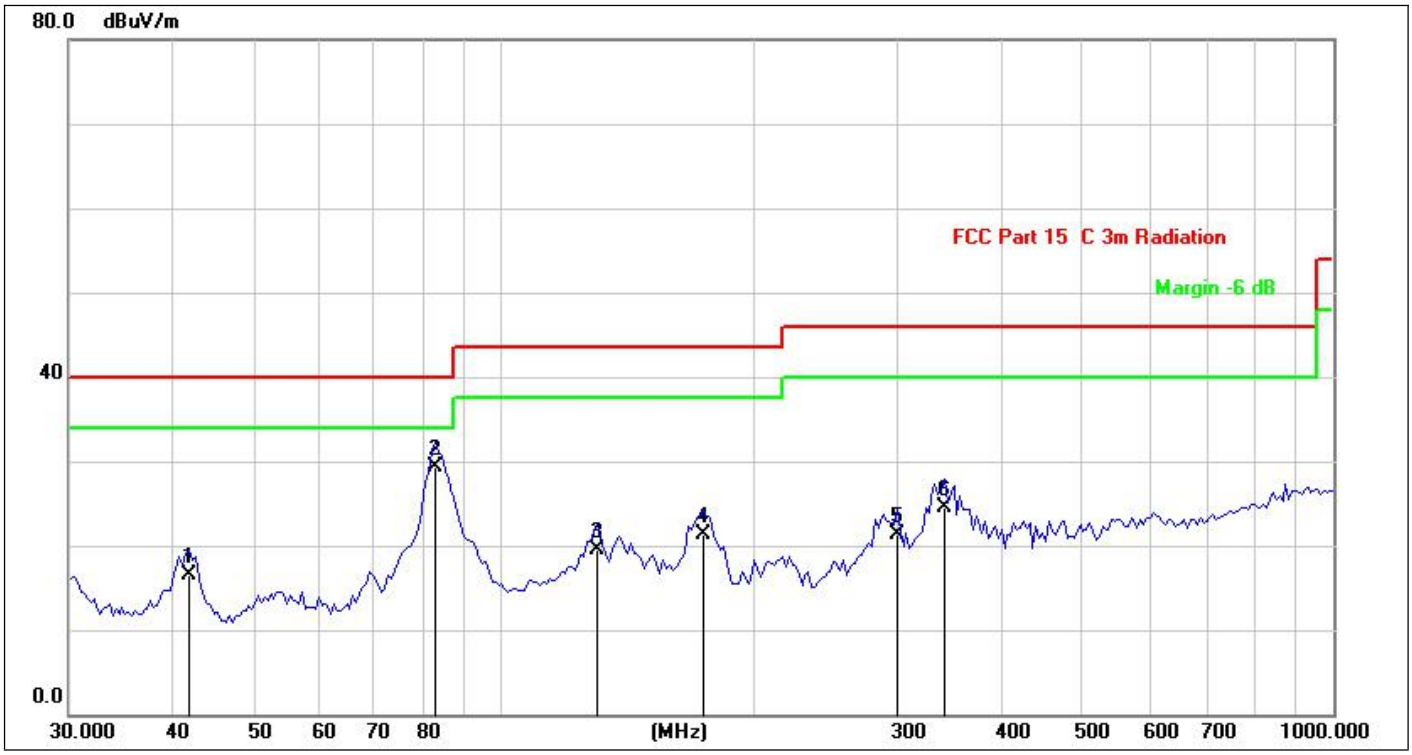
*:Maximum data x:Over limit !:over margin

Test mode: Wireless Charging 15W use Xiaomi 9

Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	30.0000	50.63	-18.18	32.45	40.00	-7.55	QP			
2	41.4942	50.06	-16.98	33.08	40.00	-6.92	QP			
3 *	82.9385	55.54	-18.79	36.75	40.00	-3.25	QP			
4	129.6950	51.20	-19.12	32.08	43.50	-11.42	QP			
5	136.6993	51.23	-19.71	31.52	43.50	-11.98	QP			
6	176.2686	46.86	-18.43	28.43	43.50	-15.07	QP			

*:Maximum data x:Over limit !:over margin

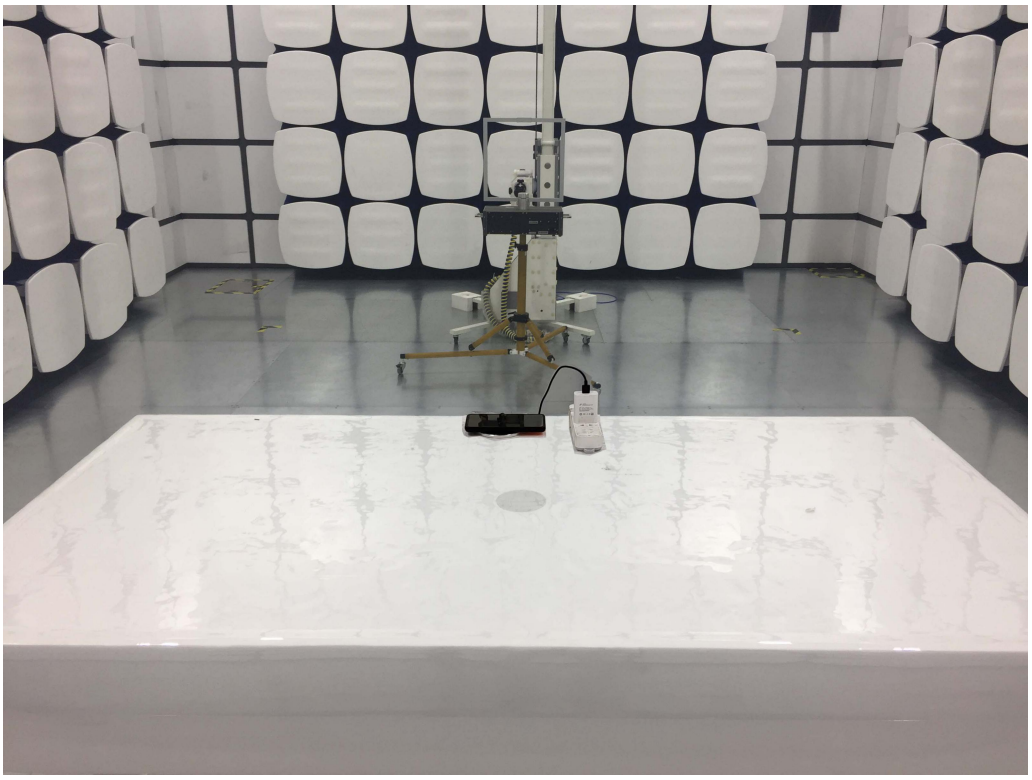


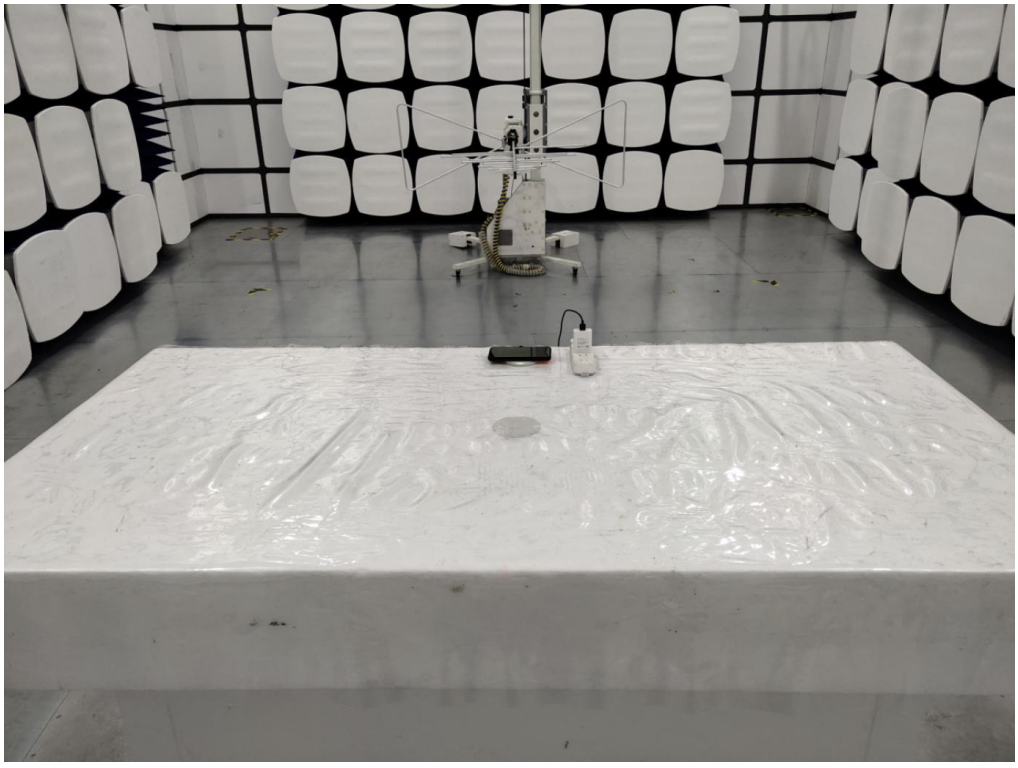
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):23.4(C)**
Limit:	**FCC Part 15 Class B 3m Radiation(QP)**		**Humidity(%):56.7%**
EUT:	**Wireless charger**	**Test Time:**	**2020/04/24**
M/N.:	**DS15W-WX**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 15W**	**Test Engineer:**	**sunshine**
Note:			

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	41.8596	33.42	-16.99	16.43	40.00	-23.57	QP			
2 *	82.9385	48.09	-18.79	29.30	40.00	-10.70	QP			
3	129.6950	38.65	-19.12	19.53	43.50	-23.97	QP			
4	174.7301	39.76	-18.45	21.31	43.50	-22.19	QP			
5	298.2681	34.98	-13.64	21.34	46.00	-24.66	QP			
6	340.1847	37.04	-12.53	24.51	46.00	-21.49	QP			

*:Maximum data x:Over limit !:over margin

5.6 Radiated Measurement Photos





6 20db Bandwidth

6.1 20dB Bandwidth Limit

None: for reporting purposed only.

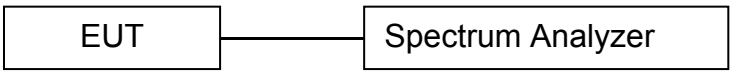
6.2 Test Instruments

Refer a test equipment and calibration data table in this test report.

6.3 Test Procedure

The bandwidth of the fundamental frequency was measured by spectrum analyzer with 10Hz RBW and 30Hz VBW. The 20dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 20dB.

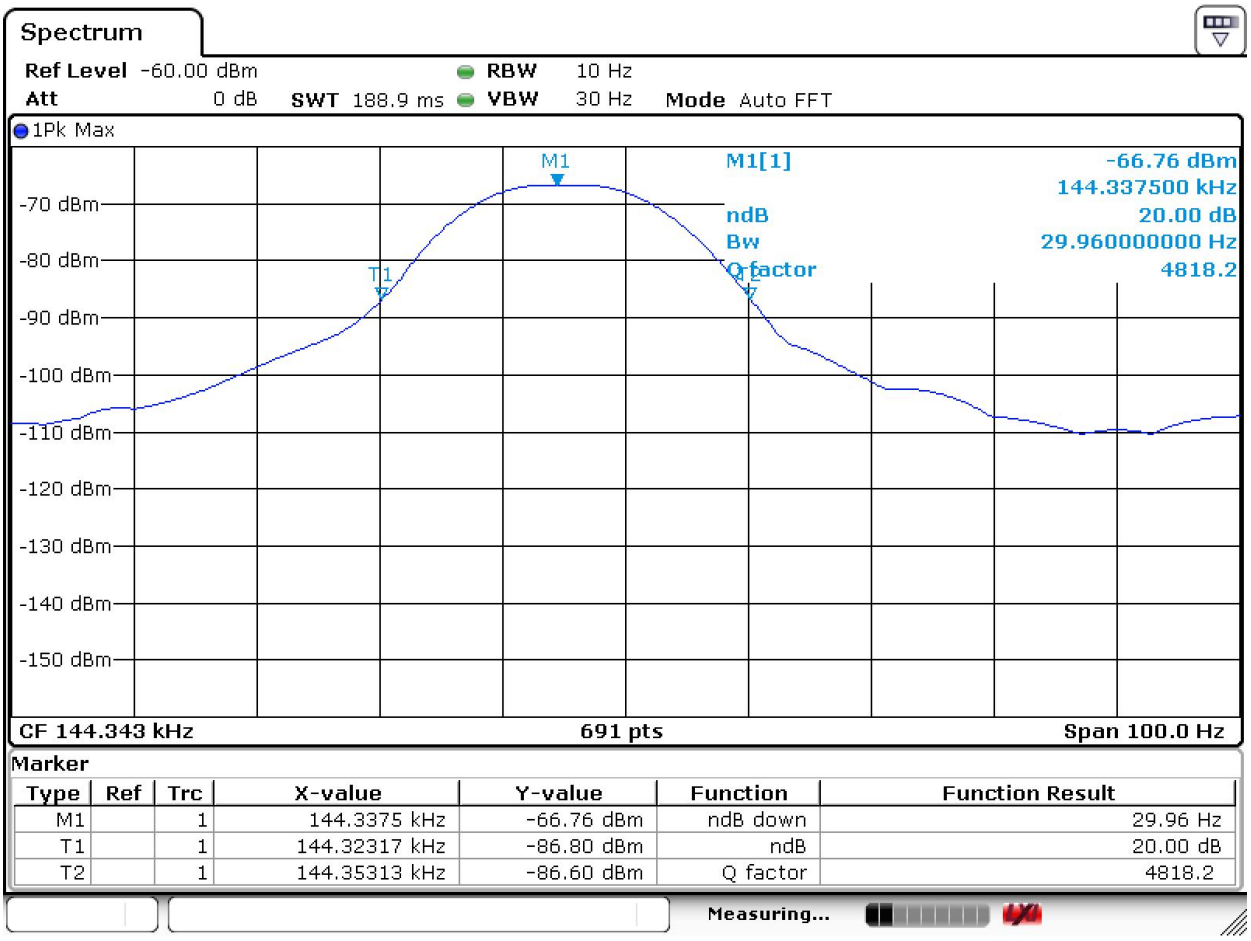
6.4 Test Setup



6.5 Test Result

Frequency (KHz)	20dB Bandwidth (Hz)	Results
144.343	20.96	PASS

20 dB Bandwidth Test plot



7 Antenna Application

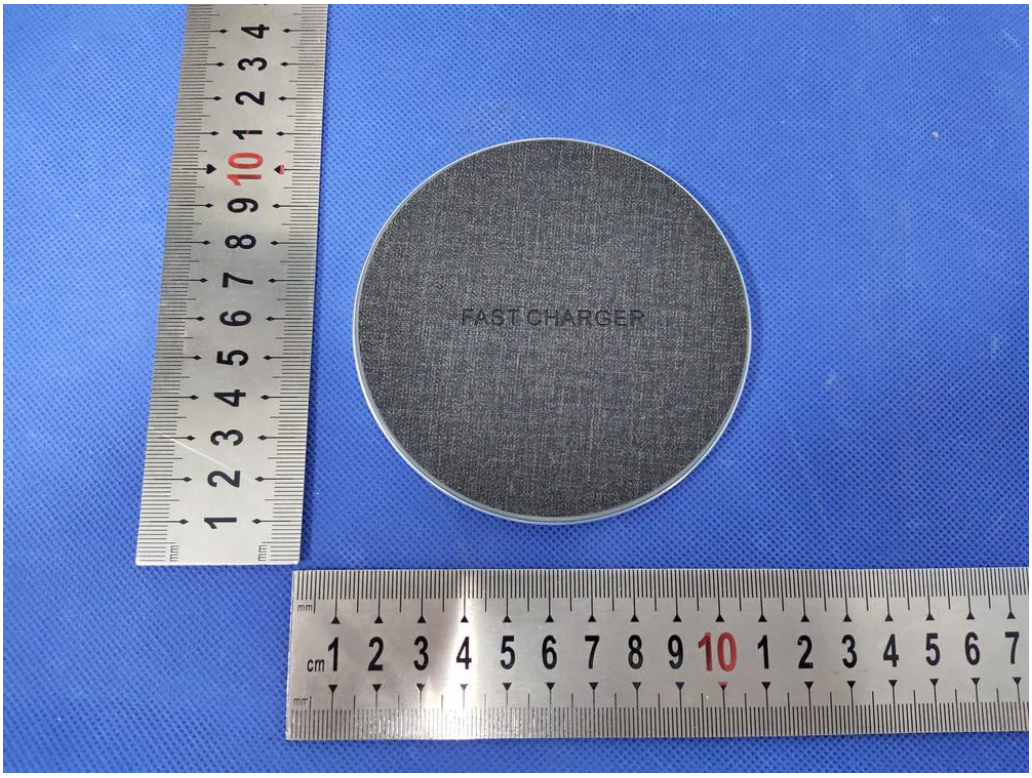
7.1 Antenna requirement

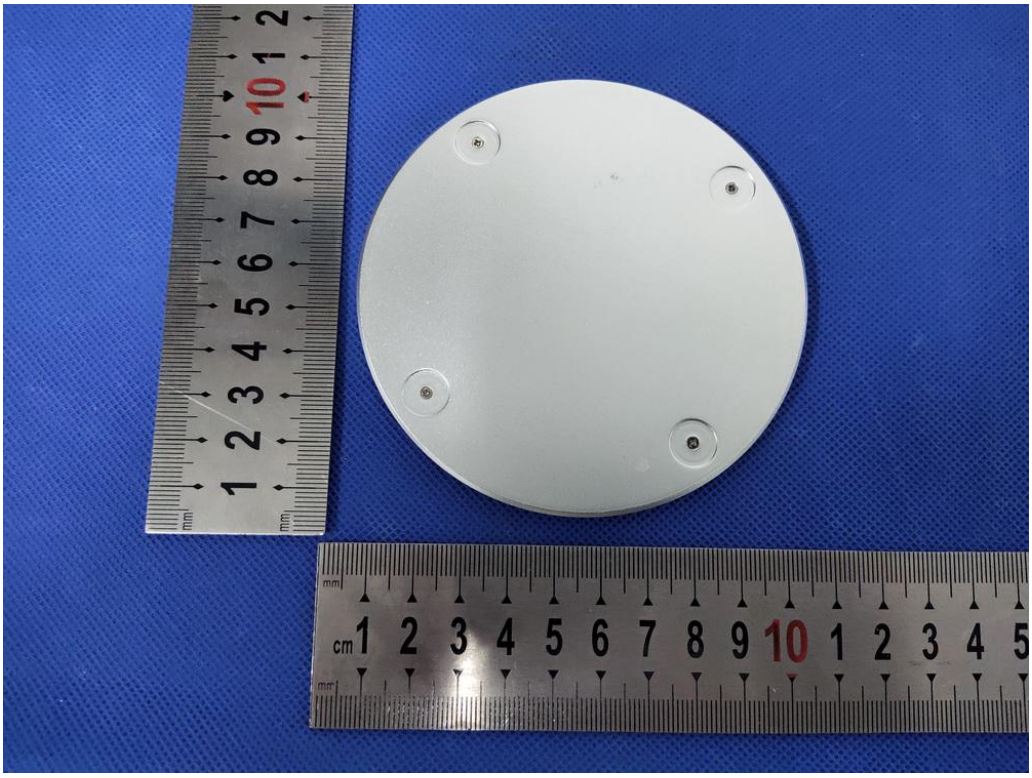
For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

7.2 Result

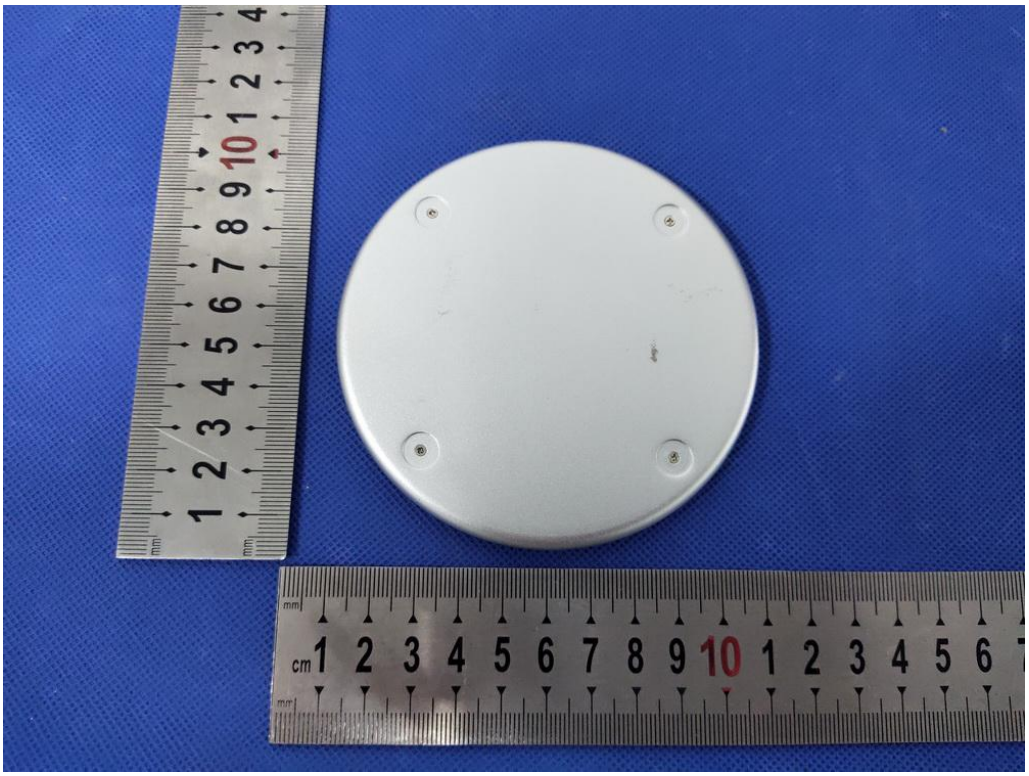
The EUT's antenna, permanent attached antenna, used an Induction coil and integrated on PCB, The antenna's gain meets the requirement.

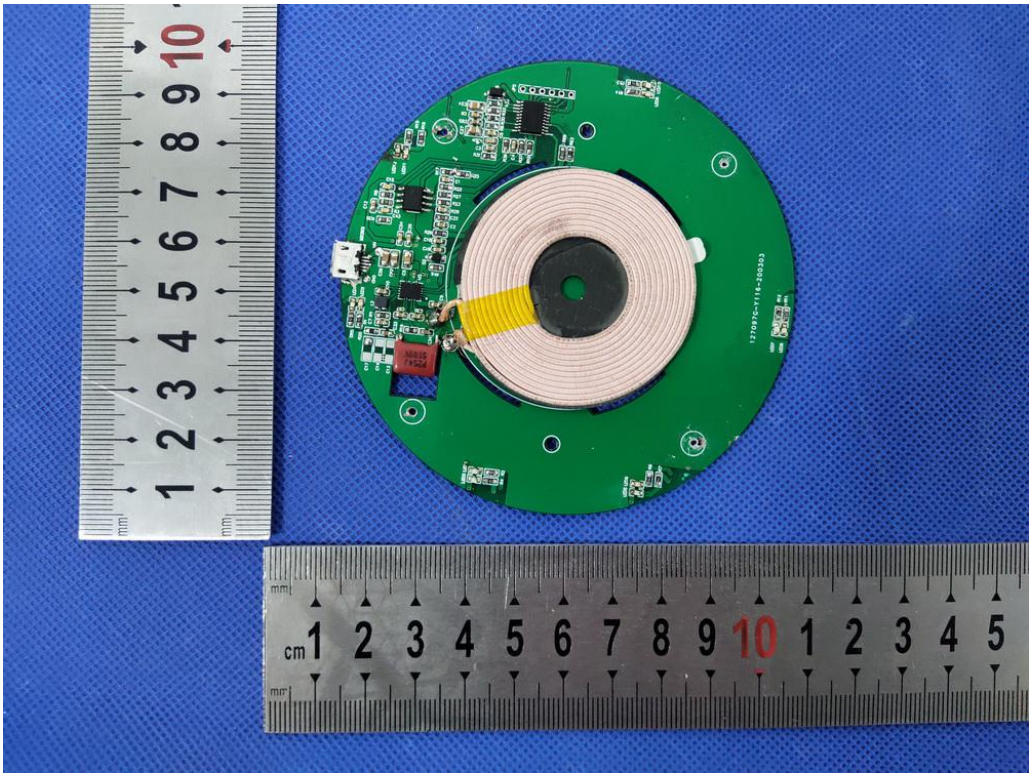
APPENDIX
(Photos of EUT)

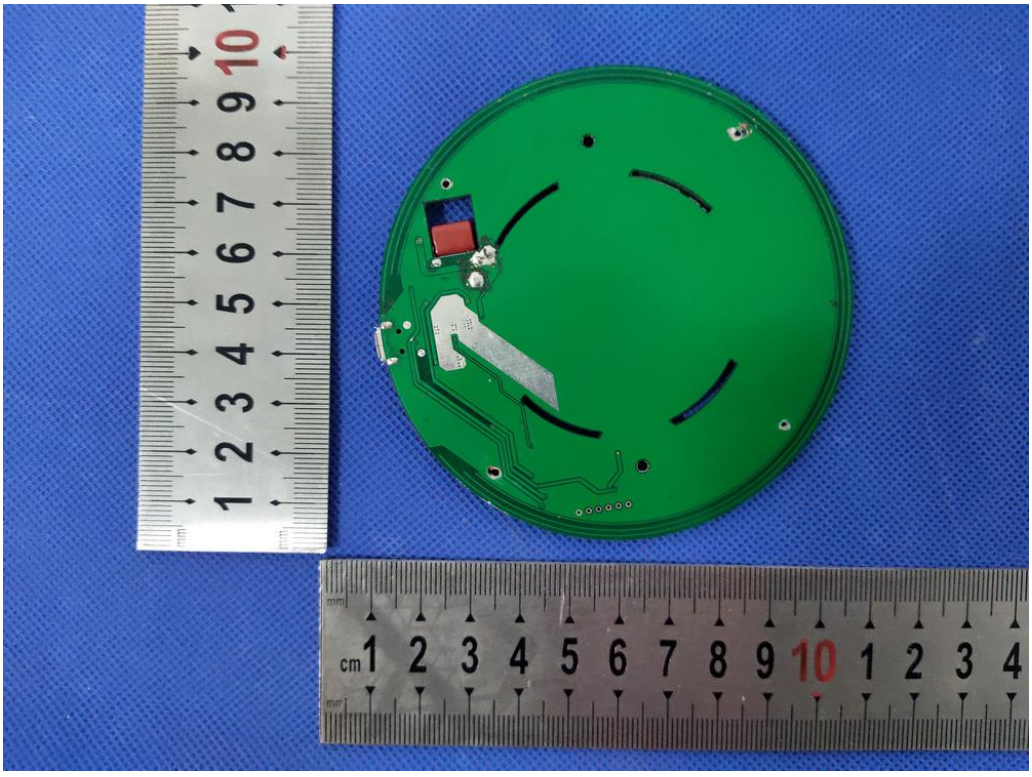

FAST CHARGER




FAST CHARGER







----------The end of report----------