



FCC TEST REPORT

FCC ID: 2AUXE-ST-072

Product Name:	Wireless charger
Trademark:	N/A
Model Number:	ST-072
Prepared For :	FOUR TWO ELECTRONICS CO., LTD.
Address :	2-10 Maitso Village, Fuhsing Township, Changhua County, Taiwan 506
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
Address :	BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Oct. 09, 2019 to Oct. 22, 2019
Date of Report :	Oct. 22, 2019
Report No.:	BCTC1910000044-2E



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TEST REPORT DECLARATION

Applicant : FOUR TWO ELECTRONICS CO., LTD.
Address : 2-10 Maitso Village, Fuhsing Township, Changhua County,
Taiwan 506
EUT Description : Wireless charger
Model Number : ST-072

Test Standards:

FCC Part 15 C

This device described above has been tested by BCTC, and the test results show that the equipment under And it is applicable only to the tested sample identified in the report.

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Prepared by(Engineer): Willem Wang

Willem Wang

Reviewer(Supervisor): Eric Yang

Eric Yang

Approved(Manager): Zero Zhou





1. GENERAL INFORMATION

1.1. Report information

- 1.1.1. This report is not a certificate of quality; it only applies to the sample of the specific product/equipment given at the time of its testing. The results are not used to indicate or imply that they are application to the similar items. In addition, such results must not be used to indicate or imply that BCTC approves recommends or endorses the manufacture, supplier or use of such product/equipment, or that BCTC in any way guarantees the later performance of the product/equipment.
- 1.1.2. The sample/s mentioned in this report is/are supplied by Applicant, BCTC therefore assumes no responsibility for the accuracy of information on the brand name, model number, origin of manufacture or any information supplied.
- 1.1.3. Additional copies of the report are available to the Applicant at an additional fee. No third part can obtain a copy of this report through BCTC, unless the applicant has authorized BCTC in writing to do so.

1.2. Measurement Uncertainty

Available upon request.

1.3. Test Facility

Site Description
Name of Firm : Shenzhen BCTC Testing Co., Ltd.

Site Location : BCTC Building & 1-2F, East of B Building,
Pengzhou Industrial, Fuyuan 1st Road, Qiaotou
Community, Fuyong Street, Bao'an District,
Shenzhen, China

1.4. Test Uncertainty

Conducted Emission = $\pm 2.66\text{dB}$
Uncertainty
Radiated Emission Uncertainty = $\pm 4.15\text{dB}$



2. PRODUCT DESCRIPTION

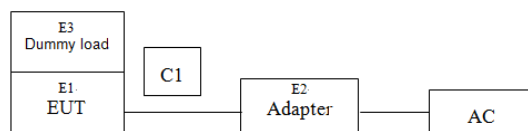
2.1.EUT Description

Description : Wireless charger
Applicant : **FOUR TWO ELECTRONICS CO., LTD.**
2-10 Maitso Village, Fuhsing Township, Changhua County,
Taiwan 506
Manufacturer : **FOUR TWO ELECTRONICS CO., LTD.**
2-10 Maitso Village, Fuhsing Township, Changhua County,
Taiwan 506
Model Number : ST-072
Power Supply : Input: DC 5V 2A /9V 1.67A
Output: DC 5V 1A / 9V 1.1A
Work Frequency : 120-220KHz

2.2.Test mode

Test Modes	keeping TX+Charging mode
------------	--------------------------

2.3.Block Diagram of EUT Configuration



2.4.Test Conditions

Temperature: 23~26°C

Relative Humidity: 54~63 %



2.5. Description Of Support Units (Conducted Mode)

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
E1	Wireless charger	N/A	ST-072	N/A	EUT
E2	Adapter	N/A	BCTC-002	N/A	Auxiliary
E3	Dummy load	N/A	DL01	N/A	Auxiliary

Item	Shielded Type	Ferrite Core	Length	Note

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in 『Length』 column.
- (3) “YES” is means “shielded” “with core”; “NO” is means “unshielded” “without core”.

3. TEST RESULTS SUMMARY

Table 1 Test Results Summary

Test Items	Test Results
Conducted disturbance	Pass
Radiated disturbance	Pass

Remark: “N/A” means “Not applicable.”



4. TEST EQUIPMENT USED

4.1. For Conducted Emission Test

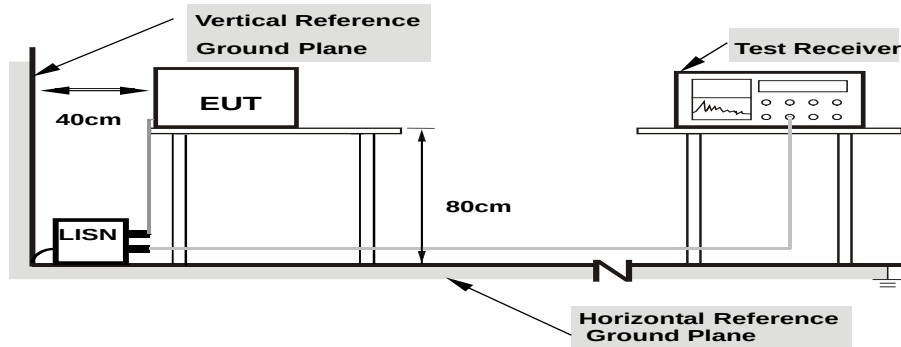
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESR3	102075	Jun. 13, 2019	Jun. 12, 2020
2	LISN	SCHWARZBECK	NSLK8127	8127739	Jun. 13, 2019	Jun. 12, 2020
3	LISN	R&S	ENV216	101375	Jun. 13, 2019	Jun. 12, 2020
4	RF cables	Huber+Suhnar	9kHz-30MHz	B1702988-0008	Jun. 25, 2019	Jun. 24, 2020
5	Software	Frad	EZ-EMC	EMC-CON 3A1	\	\

4.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Spectrum Analyzer (9kHz-26.5GHz)	Agilent	E4407B	MY45109572	Jun. 13, 2019	Jun. 12, 2020
2	Test Receiver (9kHz-7GHz)	R&S	ESR7	101154	Jun. 13, 2019	Jun. 12, 2020
3	Bilog Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	VULB9163-942	Jun. 22, 2019	Jun. 21, 2020
4	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1541	Jun. 22, 2019	Jun. 21, 2020
5	Horn Antenna (18GHz-40GHz)	SCHWARZBECK	BBHA9170	822	Jun. 22, 2019	Jun. 21, 2020
6	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	Jun. 25, 2019	Jun. 24, 2020
7	Amplifier (0.5GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	Jun. 25, 2019	Jun. 24, 2020
8	Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-HG	2034381	Jun. 17, 2019	Jun. 16, 2020
9	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	014	Jul. 02, 2019	Jul. 01, 2020
10	RF cables1 (9kHz-30MHz)	Huber+Suhnar	9kHz-30MHz	B1702988-0008	Jun. 25, 2019	Jun. 24, 2020
11	RF cables2 (30MHz-1GHz)	Huber+Suhnar	30MHz-1GHz	1486150	Jun. 25, 2019	Jun. 24, 2020
12	RF cables3 (1GHz-40GHz)	Huber+Suhnar	1GHz-40GHz	1607106	Jun. 25, 2019	Jun. 24, 2020
13	Power Metter	Keysight	E4419B	\	Jun. 17, 2019	Jun. 16, 2020
14	Power Sensor (AV)	Keysight	E9 300A	\	Jun. 17, 2019	Jun. 16, 2020
15	Signal Analyzer 20kHz-26.5GHz	KEYSIGHT	N9020A	MY49100060	Jun. 13, 2019	Jun. 12, 2020
16	Test Receiver 9kHz-40GHz	R&S	FSP40	100363	Jun. 13, 2019	Jun. 12, 2020
17	D.C. Power Supply	LongWei	TPR-6405D	\	\	\
18	Software	Frad	EZ-EMC	FA-03A2 RE	\	\

5. CONDUCTED EMISSION TEST

5.1. Block Diagram of Test Setup



Note: 1.Support units were connected to second LISN.
2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure.
The specification used was with the FCC Part 15.207 limits.

5.2. Test Standard

FCC§15.207

5.3. Conducted Emission Limit

Frequency MHz	Limits dB(μV)	
	Quasi-peak Level	Average Level
0.15 ~ 0.50	66 ~ 56*	56 ~ 46*
0.50 ~ 5.00	56	46
5.00 ~ 30.00	60	50

Notes: 1. *Decreasing linearly with logarithm of frequency.

5.4. EUT Configuration on Test

The following equipments are installed on conducted emission test to meet FCC Part 15.207 requirement and operating in a manner, which tends to maximize its emission characteristics in a normal application.



5.5. Operating Condition of EUT

5.5.1. Setup the EUT and simulators as shown in Section 5.1.

5.5.2. Turn on the power of all equipments.

5.5.3. Let the EUT work in test modes (EUT Working) and test it.

5.6. Test Procedure

The EUT is put on a table of non-conducting material that is 80cm high. The vertical conducting wall of shielding is located 40cm to the rear of the EUT. The power line of the EUT is connected to the AC mains through a Artificial Mains Network (A.M.N.). A EMI test receiver (R&S Test Receiver ESHS30) is used to test the emissions form both sides of AC line. The bandwidth of EMI test receiver is set at 9kHz.

The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

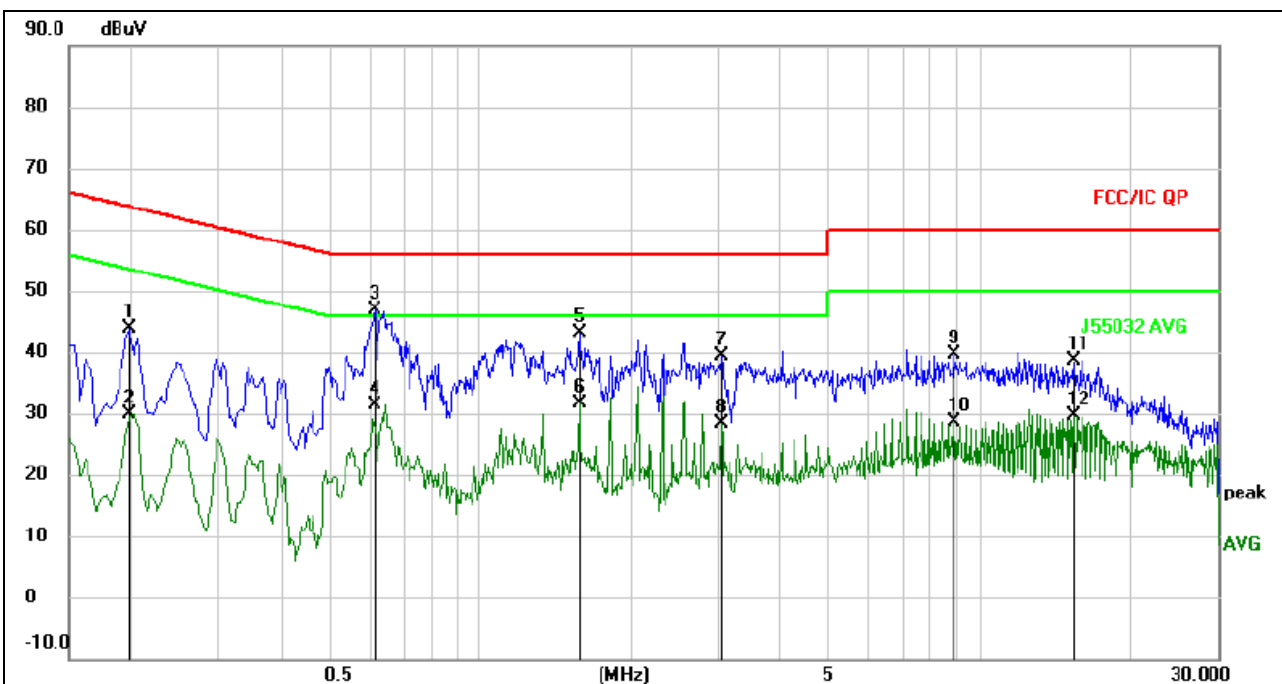
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

5.7. Test Result

PASS



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	Input: DC 5V 2A Output: DC5V 1A	Test Mode:	Normal



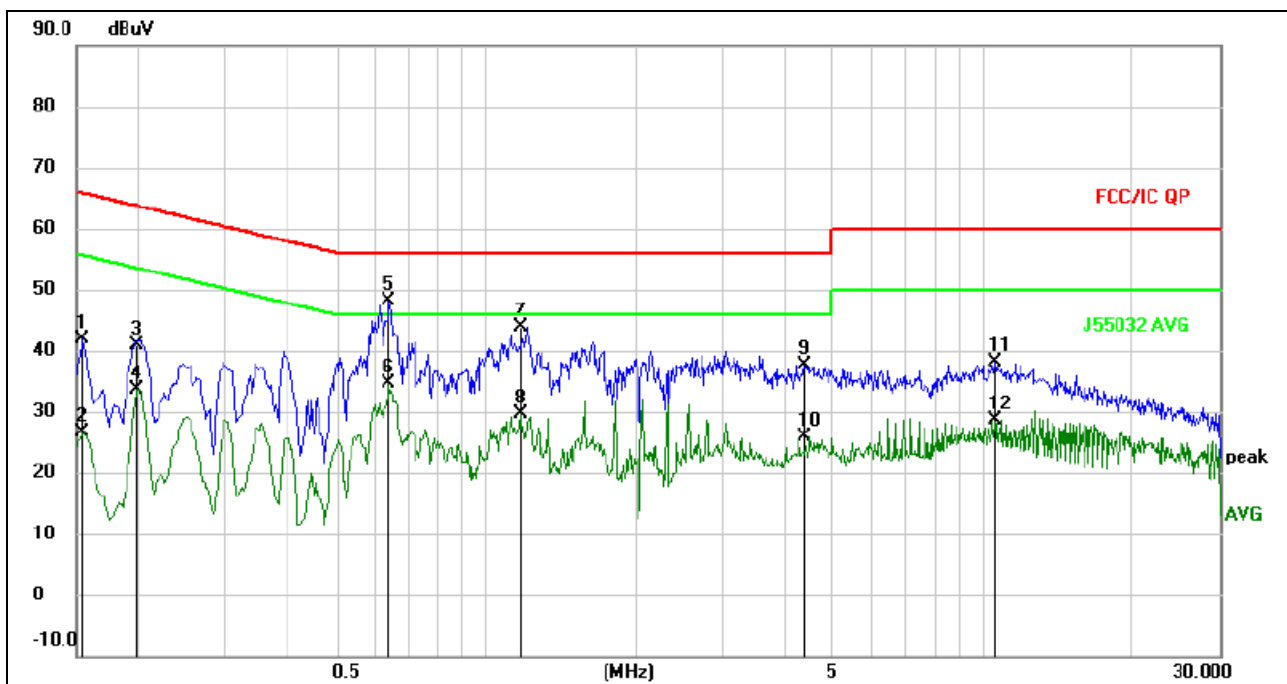
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1980	34.52	9.46	43.98	63.69	-19.71	QP	
2		0.1980	20.51	9.46	29.97	53.69	-23.72	AVG	
3	*	0.6140	36.83	9.95	46.78	56.00	-9.22	QP	
4		0.6140	21.37	9.95	31.32	46.00	-14.68	AVG	
5		1.5820	33.53	9.58	43.11	56.00	-12.89	QP	
6		1.5820	22.01	9.58	31.59	46.00	-14.41	AVG	
7		3.0380	29.84	9.66	39.50	56.00	-16.50	QP	
8		3.0380	18.78	9.66	28.44	46.00	-17.56	AVG	
9		8.8740	29.94	9.70	39.64	60.00	-20.36	QP	
10		8.8740	18.91	9.70	28.61	50.00	-21.39	AVG	
11		15.4340	28.90	9.71	38.61	60.00	-21.39	QP	
12		15.4340	19.89	9.71	29.60	50.00	-20.40	AVG	



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	Input: DC 5V 2A Output: DC5V 1A	Test Mode:	Normal



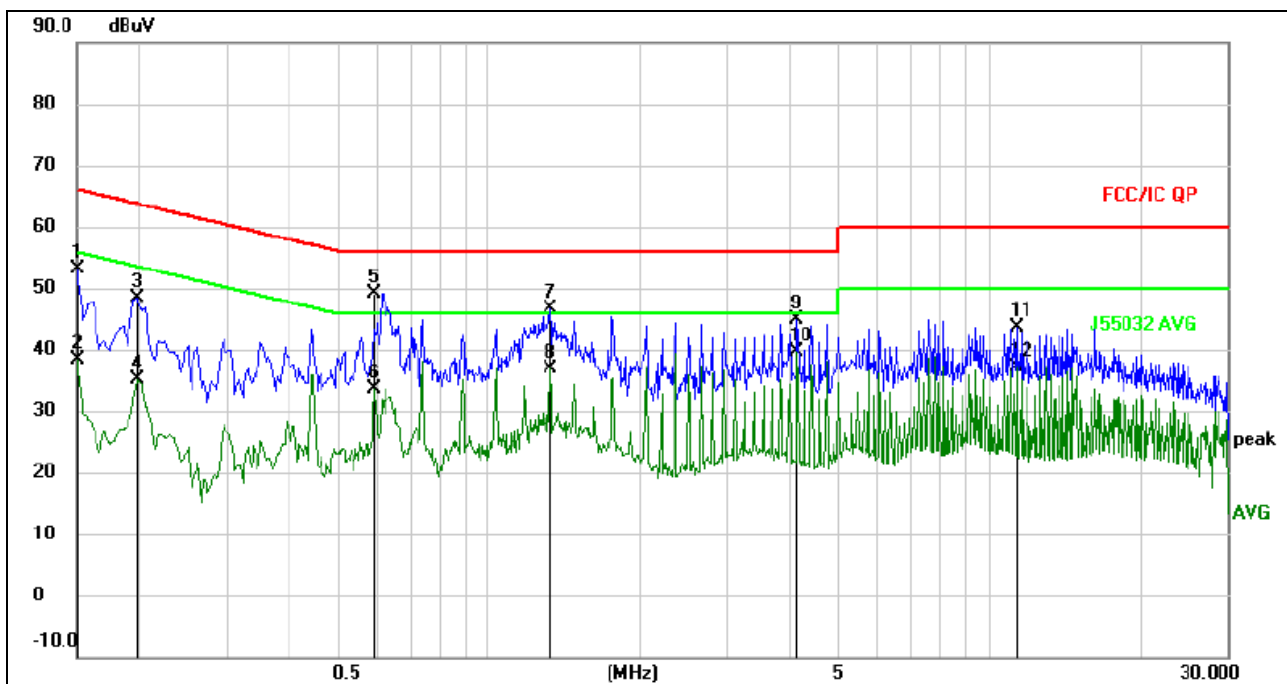
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1539	32.40	9.52	41.92	65.79	-23.87	QP	
2		0.1539	16.99	9.52	26.51	55.79	-29.28	AVG	
3		0.1980	31.48	9.46	40.94	63.69	-22.75	QP	
4		0.1980	24.29	9.46	33.75	53.69	-19.94	AVG	
5	*	0.6380	38.20	9.87	48.07	56.00	-7.93	QP	
6		0.6380	24.68	9.87	34.55	46.00	-11.45	AVG	
7		1.1740	34.41	9.57	43.98	56.00	-12.02	QP	
8		1.1740	19.98	9.57	29.55	46.00	-16.45	AVG	
9		4.3700	27.95	9.76	37.71	56.00	-18.29	QP	
10		4.3700	16.12	9.76	25.88	46.00	-20.12	AVG	
11		10.5740	28.55	9.69	38.24	60.00	-21.76	QP	
12		10.5740	19.06	9.69	28.75	50.00	-21.25	AVG	



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	Input: DC 9V 1.67A Output: DC 9V 1.1A	Test Mode:	Normal



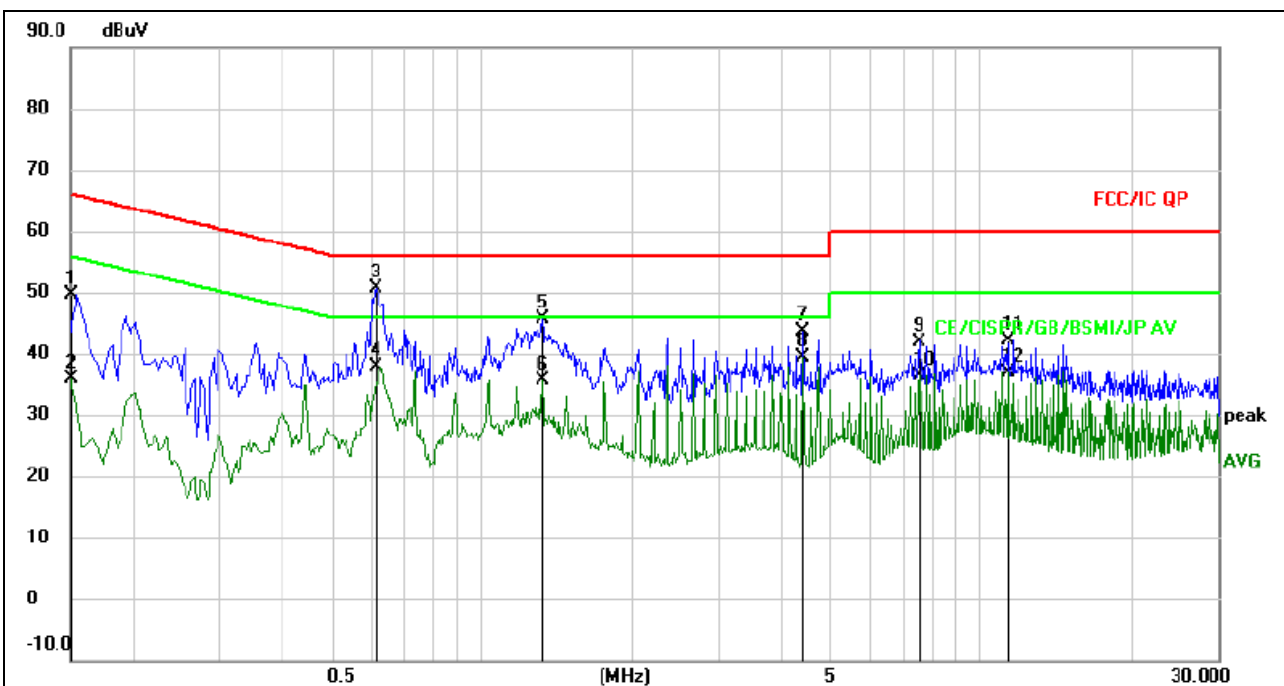
Remark:

1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor	Measure- ment dBuV	Limit dBuV	Over dB	Detector	Comment
1		0.1500	43.62	9.52	53.14	66.00	-12.86	QP	
2		0.1500	28.97	9.52	38.49	56.00	-17.51	AVG	
3		0.1980	39.04	9.46	48.50	63.69	-15.19	QP	
4		0.1980	25.66	9.46	35.12	53.69	-18.57	AVG	
5		0.5899	39.22	9.96	49.18	56.00	-6.82	QP	
6		0.5899	23.77	9.96	33.73	46.00	-12.27	AVG	
7		1.3300	37.03	9.58	46.61	56.00	-9.39	QP	
8		1.3300	27.29	9.58	36.87	46.00	-9.13	AVG	
9		4.1340	35.10	9.74	44.84	56.00	-11.16	QP	
10	*	4.1340	29.81	9.74	39.55	46.00	-6.45	AVG	
11		11.3660	33.83	9.69	43.52	60.00	-16.48	QP	
12		11.3660	27.34	9.69	37.03	50.00	-12.97	AVG	



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	Input: DC 9V 1.37A Output: DC 9V 1.1A	Test Mode:	Normal



Remark:

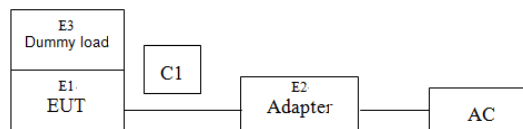
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	Detector	Comment
		MHz	dBuV		dBuV	dBuV	dB		
1		0.1500	40.05	9.52	49.57	66.00	-16.43	QP	
2		0.1500	26.42	9.52	35.94	56.00	-20.06	AVG	
3	*	0.6140	40.57	9.95	50.52	56.00	-5.48	QP	
4		0.6140	27.85	9.95	37.80	46.00	-8.20	AVG	
5		1.3300	35.95	9.58	45.53	56.00	-10.47	QP	
6		1.3300	26.05	9.58	35.63	46.00	-10.37	AVG	
7		4.4259	33.78	9.76	43.54	56.00	-12.46	QP	
8		4.4259	29.51	9.76	39.27	46.00	-6.73	AVG	
9		7.5259	32.29	9.71	42.00	60.00	-18.00	QP	
10		7.5259	26.67	9.71	36.38	50.00	-13.62	AVG	
11		11.3619	32.36	9.69	42.05	60.00	-17.95	QP	
12		11.3619	27.21	9.69	36.90	50.00	-13.10	AVG	

6. RADIATED EMISSION MEASUREMENT

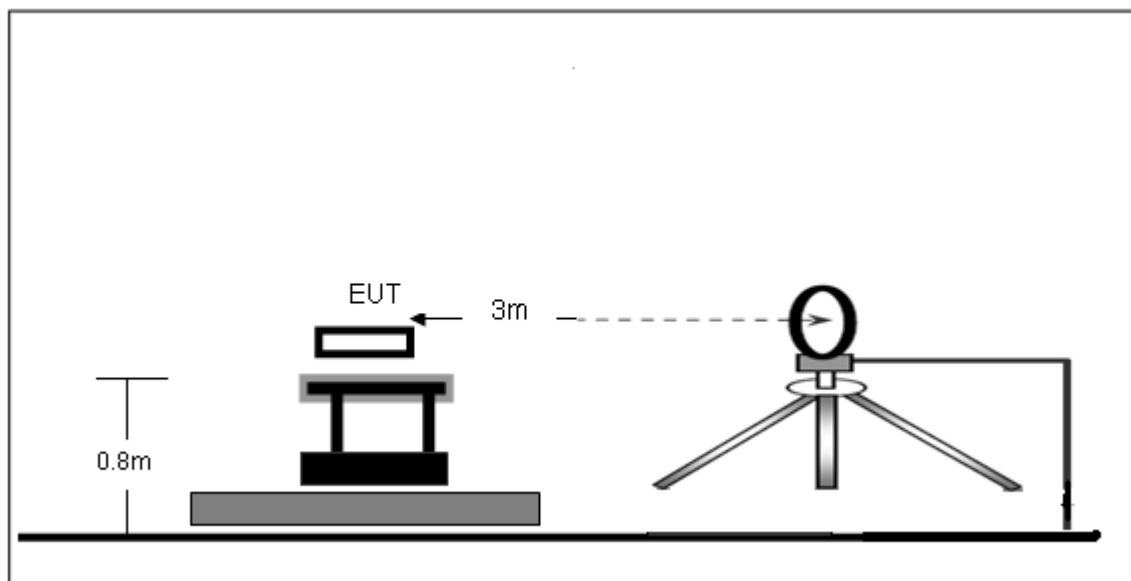
6.1. Block Diagram of Test Setup

6.1.1. Block Diagram of connection between the EUT and the simulators

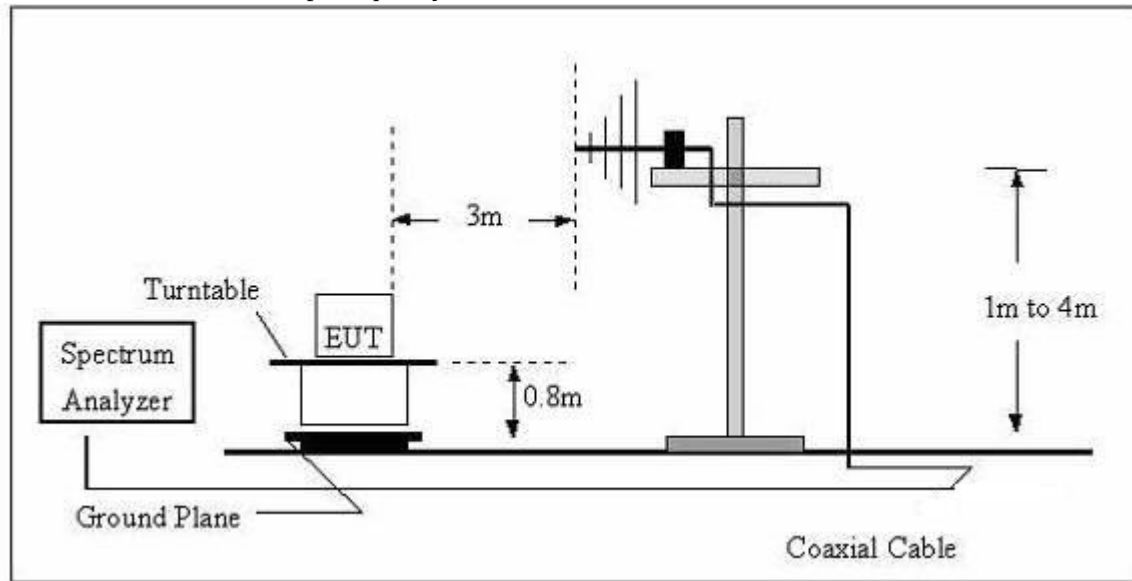


6.1.2. Anechoic Chamber Test Setup Diagram

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



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



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.205 limits.

6.2. Test Standard and Limit

FCC §15.209; §15.205

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



6.3.EMI Test Receiver Setup

The system was investigated from 9kHz to 1GHz.

During the radiated emission test, the EMI test receiver setup was set with the following configurations:

Frequency Range	RBW	Video B/W	Detector
9 kHz – 150 kHz	200 kHz	1 kHz	QP
150 kHz – 30MHz	9kHz	30kHz	QP
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

Note: For the frequency bands 9-90 kHz and 110-490 kHz, the test was based on average detector.

6.4.Test Procedure

The EUT is placed on a turn table which is 0.8 meter above ground. The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on an antenna tower. The antenna can move up and down between 1 to 4 meters to find out the maximum emission level. Broadband antenna (calibrated by dipole antenna) are used as a receiving antenna. Both horizontal and vertical polarization of the antenna are set on measurement.

6.5.Test Result

PASS



9kHz-30MHz

EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	Input: DC 5V 2A Output: DC5V 1A		
Test Mode :	Normal		

Frequency (kHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
25.9000	39.44	20.15	59.59	139.34	-79.75	
25.9000	36.15	20.15	56.30	119.34	-63.04	AV
58.3000	50.62	20.33	70.95	132.29	-61.34	PK
58.3000	46.33	20.33	66.66	112.29	-45.63	AV
125.6000	68.25	20.55	88.80	125.62	-36.82	PK
125.6000	63.62	20.55	84.17	105.62	-21.45	AV
688.7000	31.15	20.64	51.79	90.84	-39.05	QP
968.6200	35.12	21.26	56.38	87.88	-31.50	QP
1222.3400	24.57	22.32	46.89	85.86	-38.97	QP

Note:

Pre-scan in the all of mode, the worst case in of was recorded.

Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz

EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	Input: DC 5V 2A Output: DC5V 1A		
Test Mode :	Wireless Input		



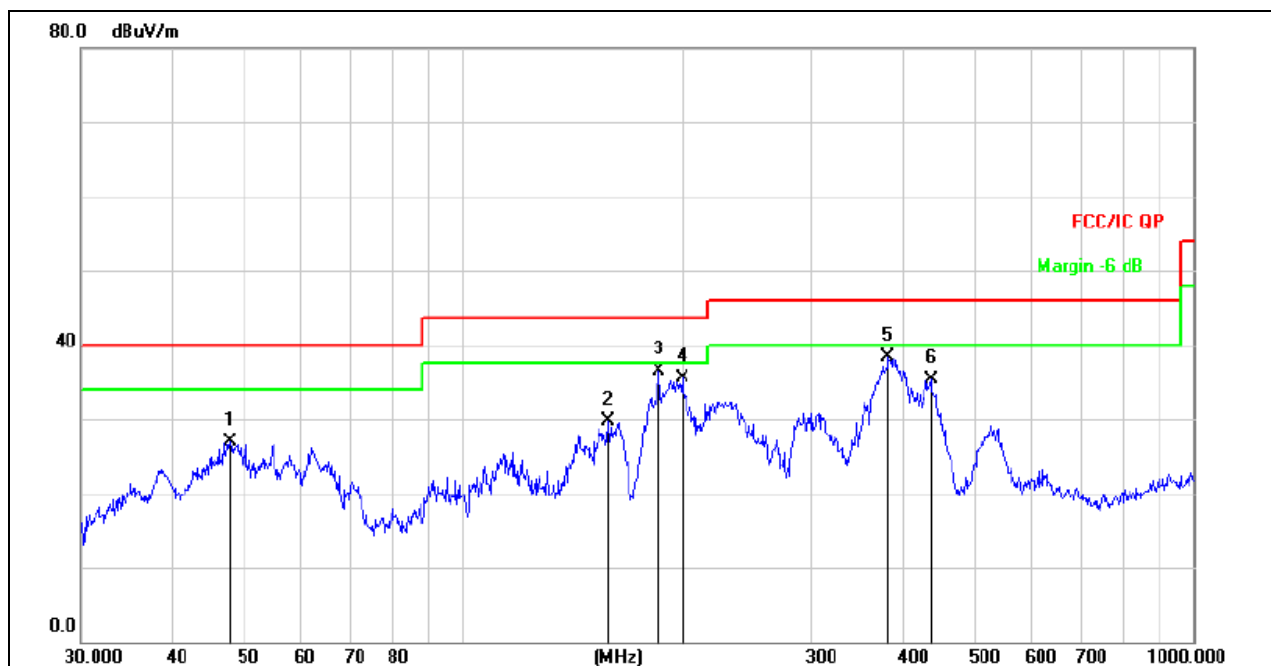
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		46.6664	30.58	-15.04	15.54	40.00	-24.46	QP
2	*	189.7385	58.10	-16.96	41.14	43.50	-2.36	QP
3		223.7334	54.75	-15.75	39.00	46.00	-7.00	QP
4		283.9791	51.15	-14.10	37.05	46.00	-8.95	QP
5		361.7139	45.19	-11.96	33.23	46.00	-12.77	QP
6		406.0880	39.47	-10.95	28.52	46.00	-17.48	QP



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	Input: DC 5V 2A Output: DC5V 1A		
Test Mode :	Wireless Input		



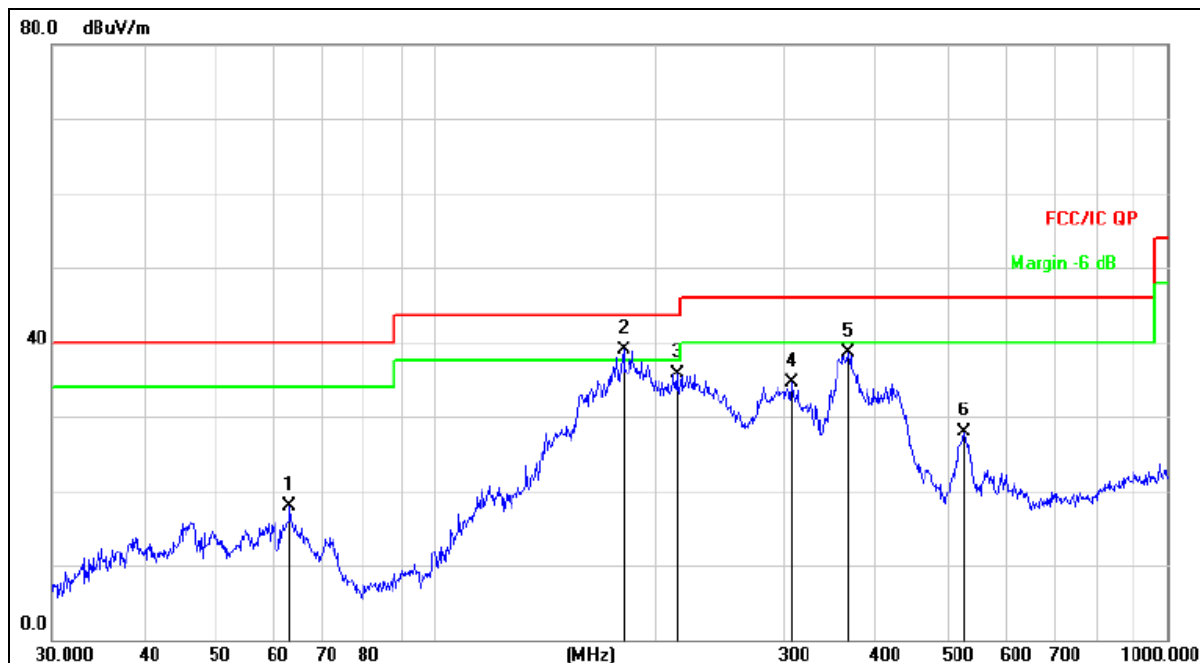
Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq.	Reading	Correct	Measure-	Limit	Over	
		MHz	Level	Factor	ment			
			dBuV	dB	dBuV/m	dB/m	dB	Detector
1		47.9940	41.90	-14.96	26.94	40.00	-13.06	QP
2		158.1123	48.61	-18.98	29.63	43.50	-13.87	QP
3	*	185.1379	53.79	-17.25	36.54	43.50	-6.96	QP
4		199.2855	51.83	-16.35	35.48	43.50	-8.02	QP
5		381.2487	49.91	-11.52	38.39	46.00	-7.61	QP
6		437.1199	45.57	-10.26	35.31	46.00	-10.69	QP



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	Input: DC 9V 1.67A Output: DC 9V 1.1A		
Test Mode :	Wireless Input		

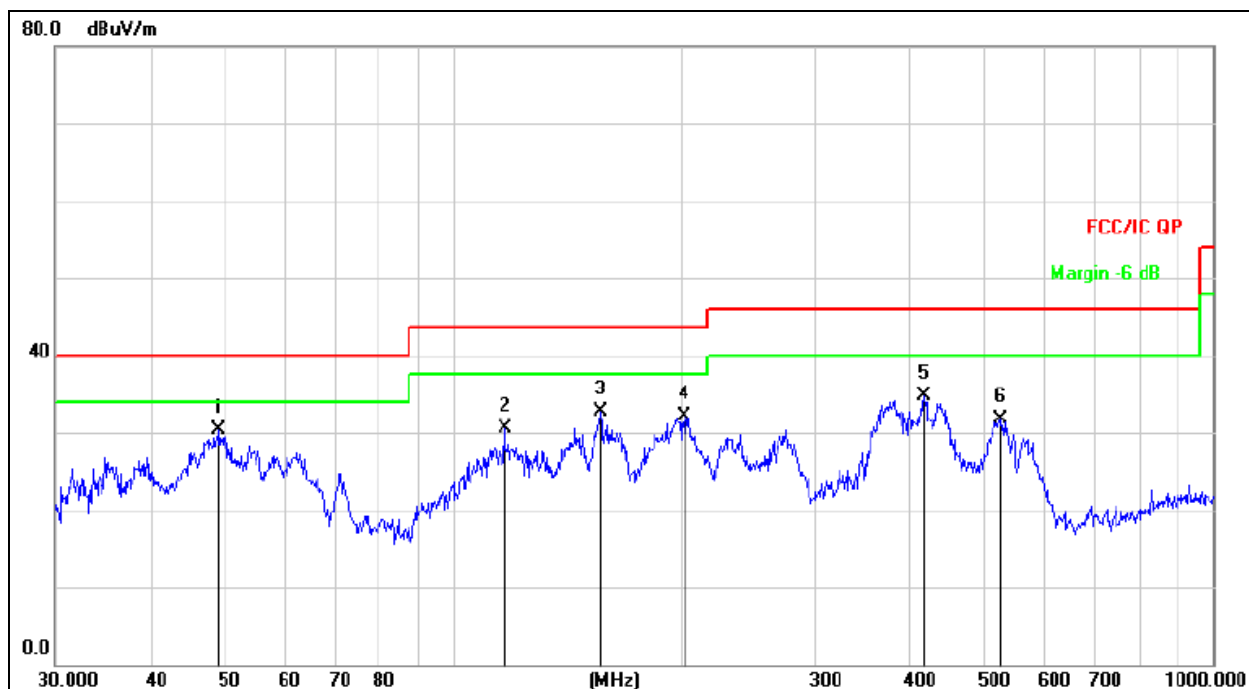


Remark:
Factor = Antenna Factor + Cable Loss – Pre-amplifier.

No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV/m	Limit dB/m	Over dB	Detector
1		63.3132	34.49	-16.67	17.82	40.00	-22.18	QP
2	*	180.6488	56.49	-17.54	38.95	43.50	-4.55	QP
3		213.7634	51.75	-15.98	35.77	43.50	-7.73	QP
4		306.7537	47.87	-13.41	34.46	46.00	-11.54	QP
5		366.8231	50.44	-11.85	38.59	46.00	-7.41	QP
6		528.2458	36.11	-8.23	27.88	46.00	-18.12	QP



EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	Input: DC 9V 1.67A Output: DC 9V 1.1A		
Test Mode :	Wireless Input		



Remark:

Factor = Antenna Factor + Cable Loss – Pre-amplifier.

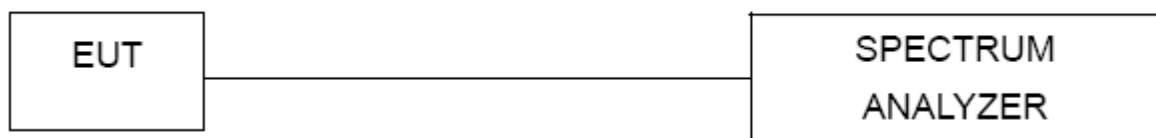
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	49.1865	45.19	-14.90	30.29	40.00	-9.71	QP
2		116.9495	47.94	-17.37	30.57	43.50	-12.93	QP
3		156.4578	51.80	-19.09	32.71	43.50	-10.79	QP
4		201.3930	48.43	-16.27	32.16	43.50	-11.34	QP
5		416.1791	45.35	-10.73	34.62	46.00	-11.38	QP
6		524.5541	39.93	-8.32	31.61	46.00	-14.39	QP



7. BANDWIDTH TEST

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

TEST SETUP





EUT:	Wireless charger	Model Name :	ST-072
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
134.7	13.95	12.905	Pass





8. EUT TEST PHOTOS

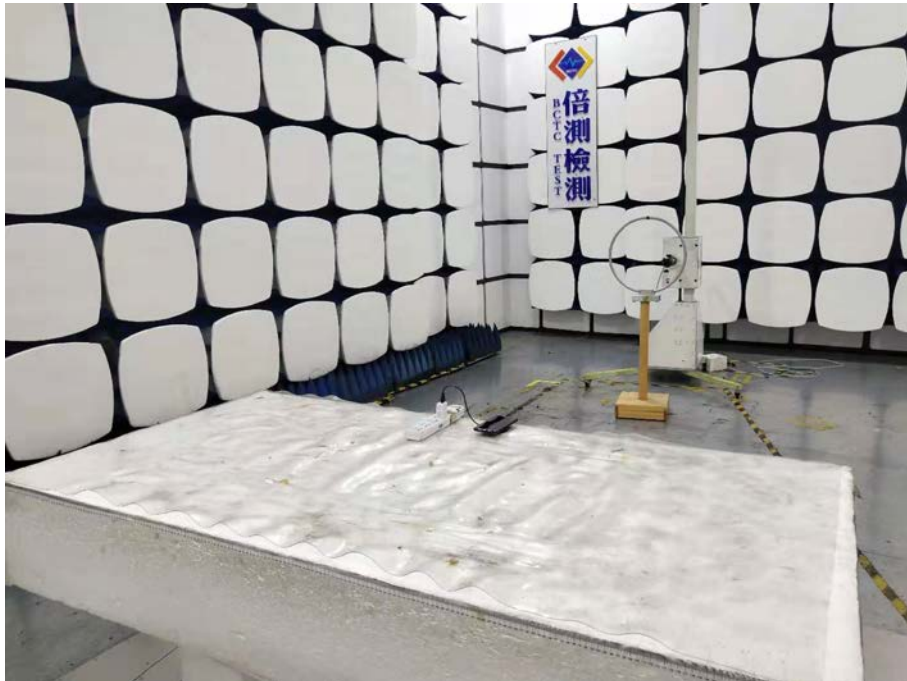
Conducted Measurement Photos





Radiated Measurement Photos

9KHz-30MHz



30MHz-1GHz





9. EUT PHOTOS



***** END OF REPORT
