



FCC TEST REPORT

FCC ID: 2AUNK-S65

Product Name:	Wireless charger
Trademark:	N/A
Model Number:	S65 PRONTIMUS, WP11, P3
Prepared For :	CYCER TECHNOLOGY CO.,LTD
Address :	4F, Block B3, JiDaLi Industrial Zone, XinHe Road, ShaJing, BaoAn, ShenZhen, China
Prepared By :	Shenzhen BCTC Testing Co., Ltd.
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Test Date:	Aug. 27, 2019 – Sep. 12, 2019
Date of Report :	Sep. 12, 2019
Report No.:	BCTC-FY190805411-2E



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TEST REPORT DECLARATION

Applicant : CYCER TECHNOLOGY CO.,LTD
Address : 4F, Block B3, JiDaLi Industrial Zone, XinHe Road, ShaJing, BaoAn, ShenZhen, China
EUT Description : Wireless charger
Model Number : S65
Serial Model : PRONTIMUS, WP11, P3

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

Reviewer(Supervisor): 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

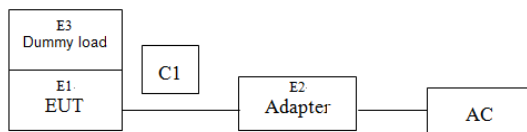
2.1.EUT Description

Description	: Wireless charger
Applicant	: CYCER TECHNOLOGY CO.,LTD 4F, Block B3, JiDaLi Industrial Zone, XinHe Road, ShaJing, BaoAn, ShenZhen, China
Manufacturer	: CYCER TECHNOLOGY CO.,LTD 4F, Block B3, JiDaLi Industrial Zone, XinHe Road, ShaJing, BaoAn, ShenZhen, China
Model Number	: S65
Serial Model	: PRONTIMUS, WP11, P3
Model Difference	: All the model are the same circuit and RF module, except model names .
Power Supply	: Input: DC 9V / 2A, 5V /2A Output: DC 9V/1.1A, 5V/1A
Work Frequency	: 110-205KHz

2.2.Test mode

Test Modes	keeping TX+Charging mode
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2.3.Block Diagram of EUT Configuration



2.4.Test Conditions

Temperature: 23~26℃

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	S65	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
C1	NO	NO	0.4M	DC cable unshielded

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

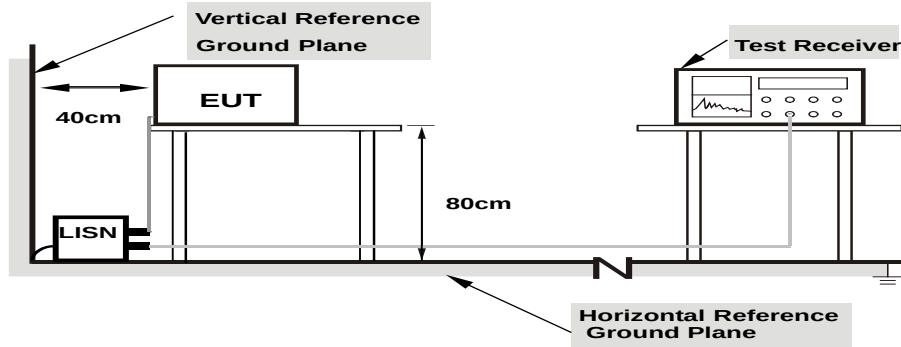
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESR3	102075	Jun. 13, 2019	Jun. 12, 2020
2	LISN	SCHWARZBECK	NSLK8127	8127739	Jun. 13, 2019	Jun. 12, 2020
3	LISN	R&S	ENV216	101375	Jun. 13, 2019	Jun. 12, 2020
4	RF cables	Huber+Suhnar	9kHz-30MHz	B1702988-0008	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)	SCHWARZBEC K	VULB9163	VULB9163-942	Jun. 22, 2019	Jun. 21, 2020
4	Horn Antenna (1GHz-18GHz)	SCHWARZBEC K	BBHA9120D	1541	Jun. 22, 2019	Jun. 21, 2020
5	Horn Antenna (18GHz-40GHz)	SCHWARZBEC K	BBHA9170	822	Jun. 22, 2019	Jun. 21, 2020
6	Amplifier (9KHz-6GHz)	SCHWARZBEC K	BBV9744	9744-0037	Jun. 25, 2019	Jun. 24, 2020
7	Amplifier (0.5GHz-18GHz)	SCHWARZBEC K	BBV9718	9718-309	Jun. 25, 2019	Jun. 24, 2020
8	Amplifier (18GHz-40GHz)	MITEQ	TTA1840-35-H G	2034381	Jun. 17, 2019	Jun. 16, 2020
9	Loop Antenna (9KHz-30MHz)	SCHWARZBEC K	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.

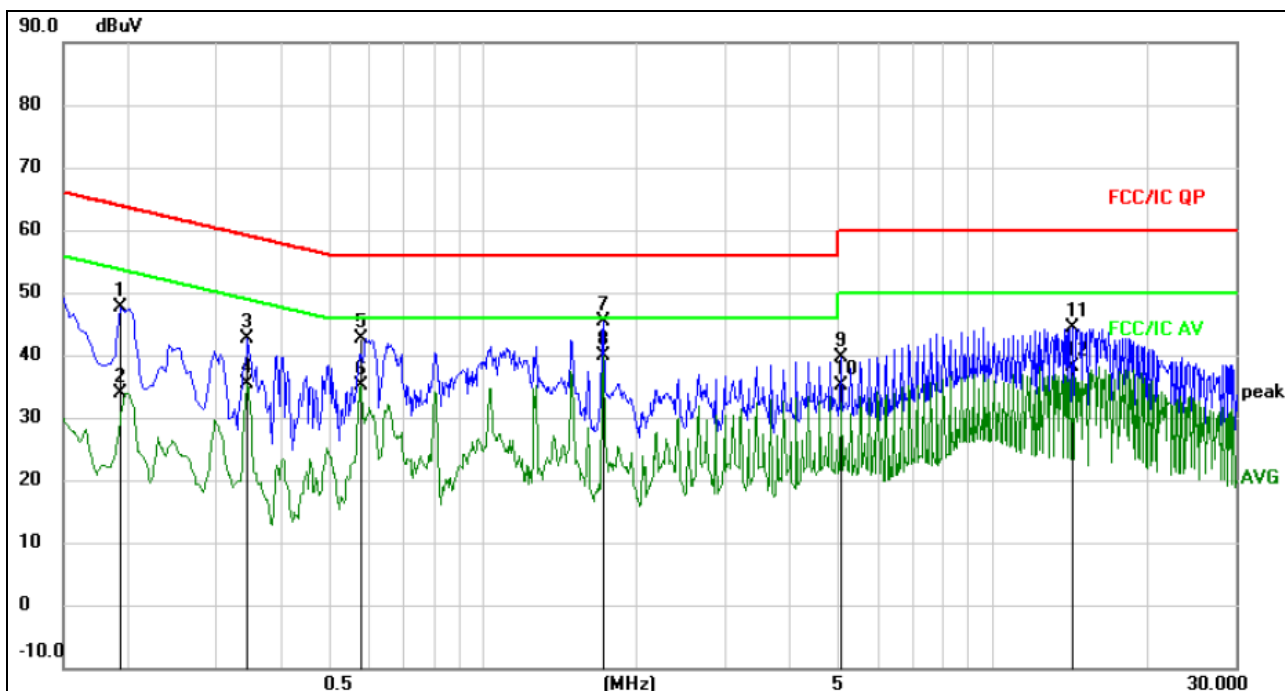
We pretest AC 120V and AC 240V, the worst voltage was AC 120V and the data recording in the report.

5.7. Test Result

PASS



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	Normal



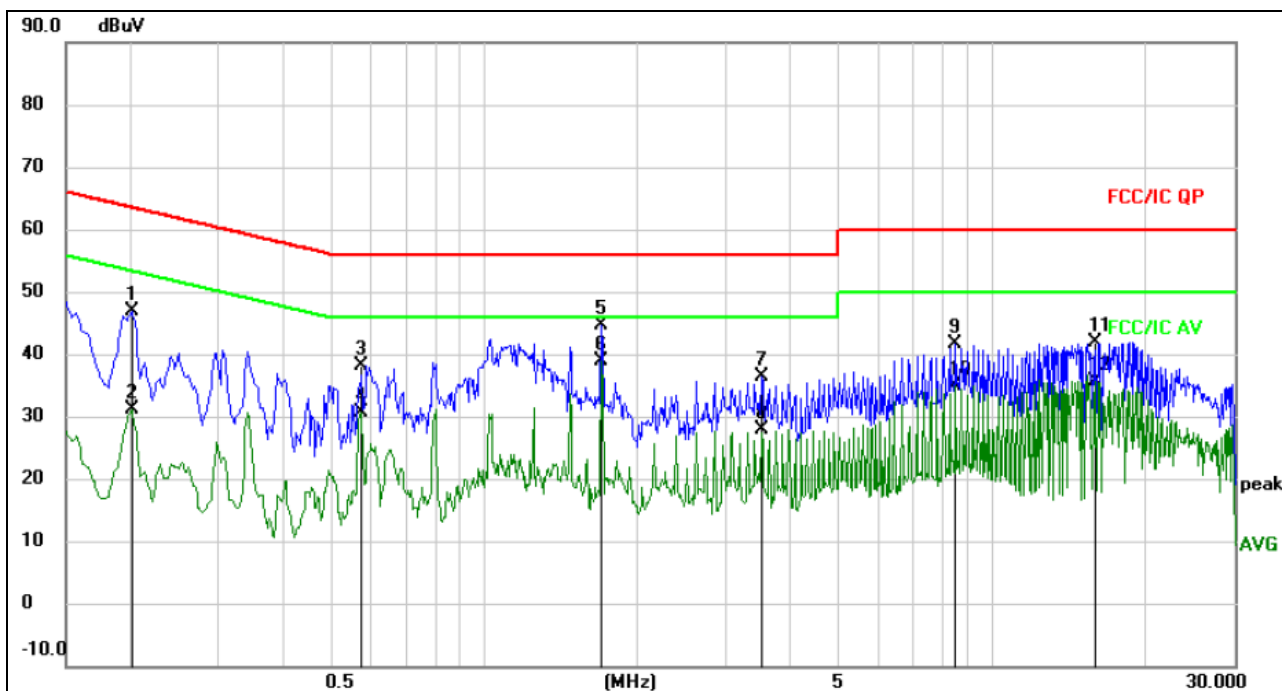
Remark:

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		0.1940	38.09	9.47	47.56	63.86	-16.30	QP	
2		0.1940	24.51	9.47	33.98	53.86	-19.88	AVG	
3		0.3460	33.02	9.54	42.56	59.06	-16.50	QP	
4		0.3460	25.81	9.54	35.35	49.06	-13.71	AVG	
5		0.5780	32.69	9.91	42.60	56.00	-13.40	QP	
6		0.5780	25.27	9.91	35.18	46.00	-10.82	AVG	
7		1.7180	35.78	9.58	45.36	56.00	-10.64	QP	
8	*	1.7180	30.19	9.58	39.77	46.00	-6.23	AVG	
9		5.0420	29.84	9.80	39.64	60.00	-20.36	QP	
10		5.0420	25.33	9.80	35.13	50.00	-14.87	AVG	
11		14.3100	34.78	9.70	44.48	60.00	-15.52	QP	
12		14.3100	28.45	9.70	38.15	50.00	-11.85	AVG	



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz	Test Mode:	Normal



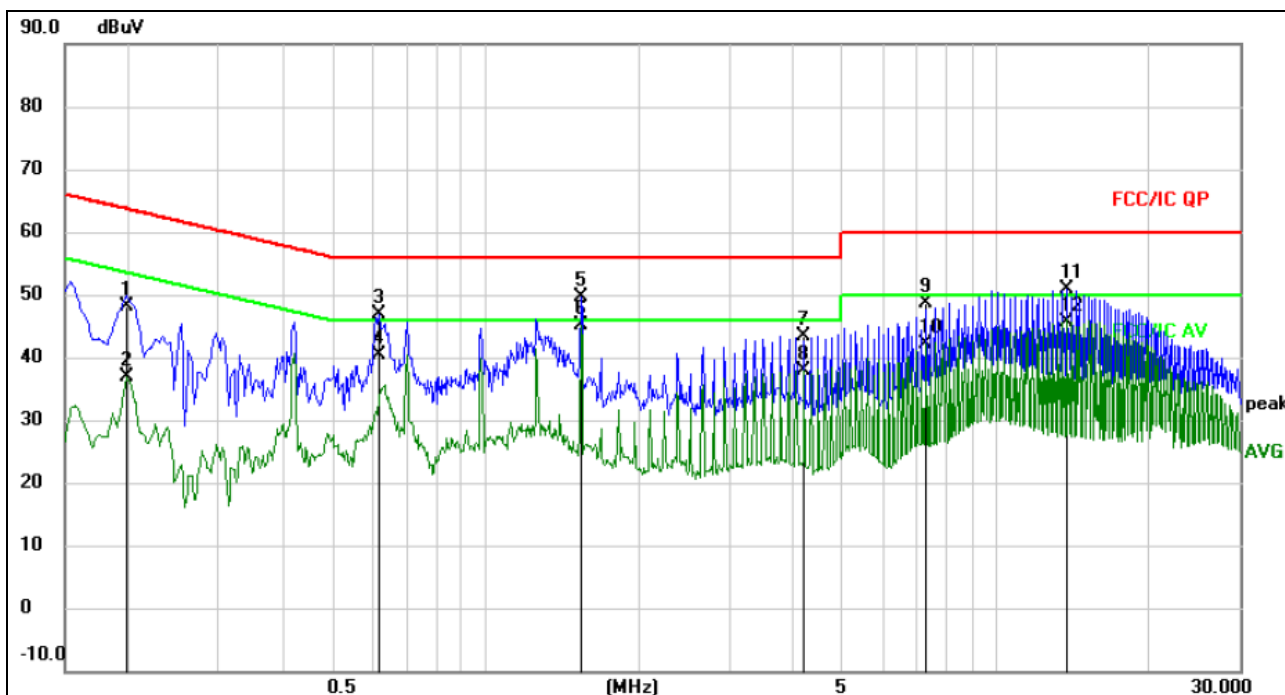
Remark:

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		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.2020	37.41	9.46	46.87	63.53	-16.66	QP	
2		0.2020	21.67	9.46	31.13	53.53	-22.40	AVG	
3		0.5740	28.16	9.89	38.05	56.00	-17.95	QP	
4		0.5740	20.75	9.89	30.64	46.00	-15.36	AVG	
5		1.7060	35.01	9.58	44.59	56.00	-11.41	QP	
6	*	1.7060	29.22	9.58	38.80	46.00	-7.20	AVG	
7		3.5260	26.70	9.70	36.40	56.00	-19.60	QP	
8		3.5260	18.29	9.70	27.99	46.00	-18.01	AVG	
9		8.4819	31.89	9.71	41.60	60.00	-18.40	QP	
10		8.4819	25.19	9.71	34.90	50.00	-15.10	AVG	
11		15.9300	32.16	9.72	41.88	60.00	-18.12	QP	
12		15.9300	25.84	9.72	35.56	50.00	-14.44	AVG	



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 9V from Adapter Input AC 120V/60Hz	Test Mode:	Normal



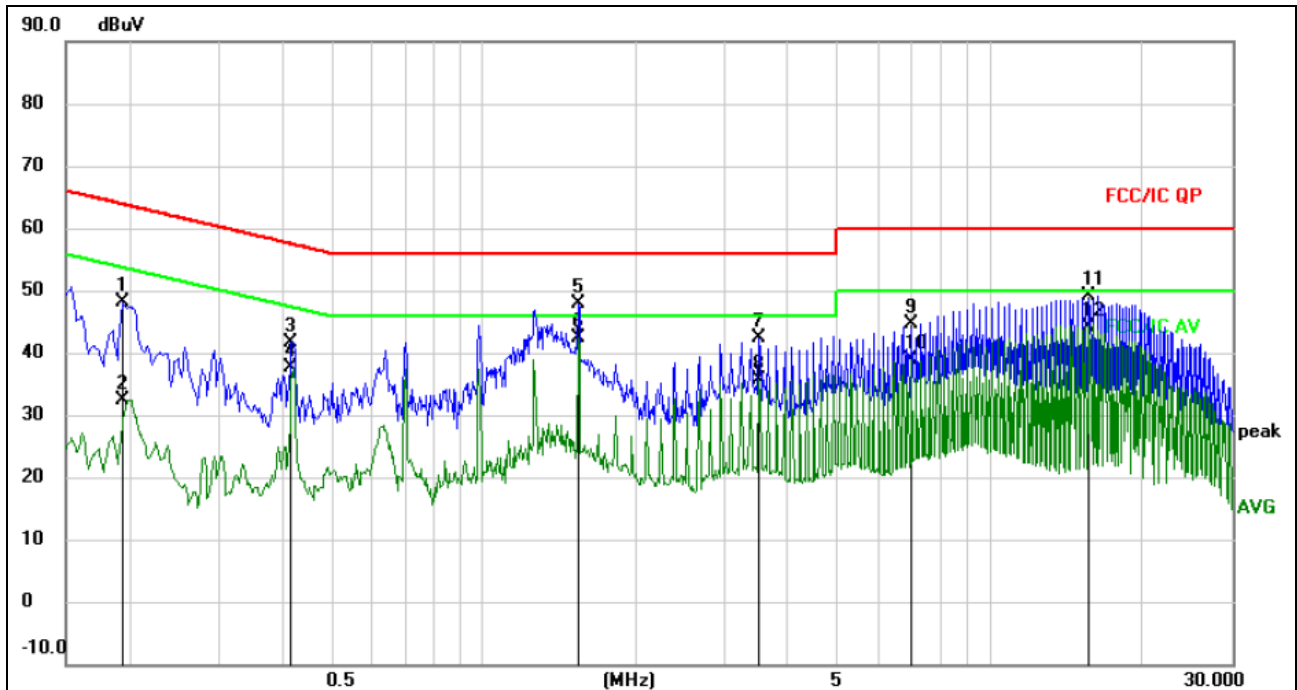
Remark:

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		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.1980	38.68	9.46	48.14	63.69	-15.55	QP	
2		0.1980	27.45	9.46	36.91	53.69	-16.78	AVG	
3		0.6180	37.02	9.94	46.96	56.00	-9.04	QP	
4		0.6180	30.51	9.94	40.45	46.00	-5.55	AVG	
5		1.5420	40.12	9.58	49.70	56.00	-6.30	QP	
6	*	1.5420	35.53	9.58	45.11	46.00	-0.89	AVG	
7		4.2100	33.74	9.74	43.48	56.00	-12.52	QP	
8		4.2100	28.11	9.74	37.85	46.00	-8.15	AVG	
9		7.2940	38.93	9.72	48.65	60.00	-11.35	QP	
10		7.2940	32.48	9.72	42.20	50.00	-7.80	AVG	
11		13.7460	41.27	9.70	50.97	60.00	-9.03	QP	
12		13.7460	35.94	9.70	45.64	50.00	-4.36	AVG	



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 9V from Adapter Input AC 120V/60Hz	Test Mode:	Normal



Remark:

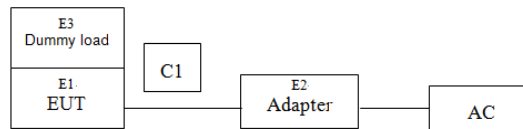
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV		dBuV	dBuV	dB	Detector Comment
1		0.1940	38.65	9.47	48.12	63.86	-15.74	QP
2		0.1940	22.96	9.47	32.43	53.86	-21.43	AVG
3		0.4180	32.04	9.52	41.56	57.49	-15.93	QP
4		0.4180	27.99	9.52	37.51	47.49	-9.98	AVG
5		1.5420	38.35	9.58	47.93	56.00	-8.07	QP
6	*	1.5420	32.76	9.58	42.34	46.00	-3.66	AVG
7		3.5060	32.65	9.70	42.35	56.00	-13.65	QP
8		3.5060	25.99	9.70	35.69	46.00	-10.31	AVG
9		7.0140	35.00	9.72	44.72	60.00	-15.28	QP
10		7.0140	29.21	9.72	38.93	50.00	-11.07	AVG
11		15.7140	39.36	9.71	49.07	60.00	-10.93	QP
12		15.7140	34.54	9.71	44.25	50.00	-5.75	AVG

6. RADIATED EMISSION MEASUREMENT

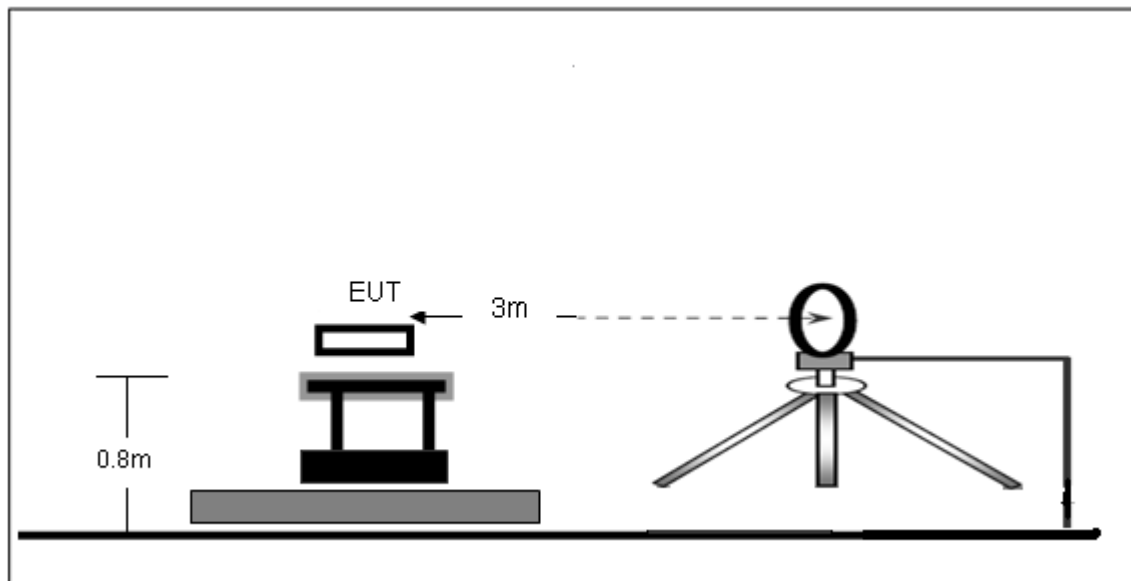
6.1. Block Diagram of Test Setup

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

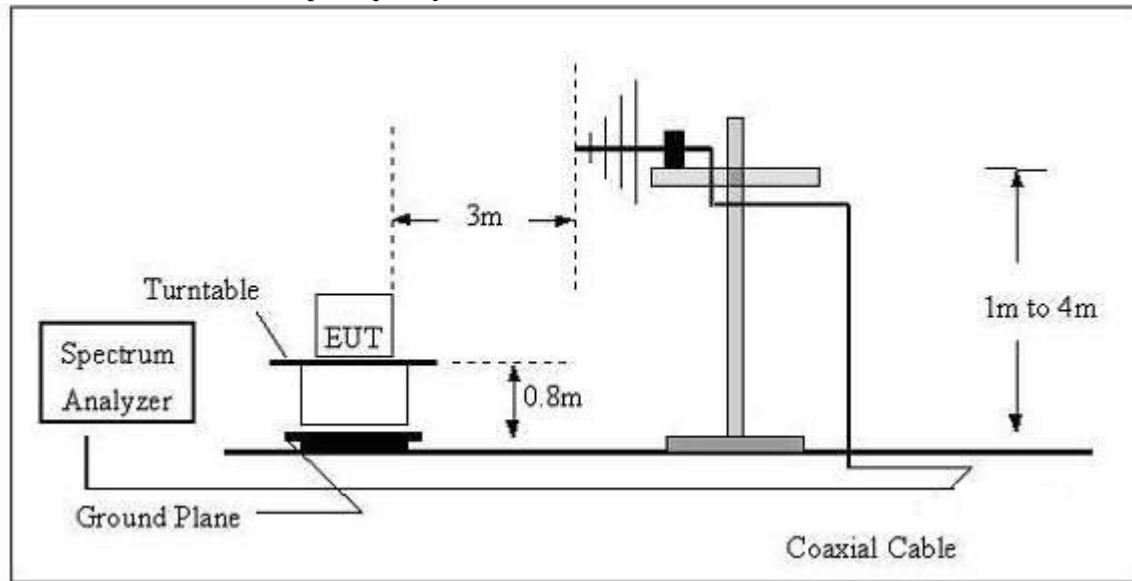


6.1.2. Anechoic Chamber Test Setup Diagram

(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 :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz		
Test Mode :	Normal		

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(kHz)	(dBμV)	(dB)	(dBμV/m)	(dBμV/m)	(dB)	
25.5000	39.46	20.15	59.61	139.47	-79.86	PK
25.5000	36.12	20.15	56.27	119.47	-63.20	AV
58.7000	50.63	20.33	70.96	132.23	-61.27	PK
58.7000	46.37	20.33	66.70	112.23	-45.53	AV
125.9000	68.21	20.55	88.76	125.6	-36.84	PK
125.9000	63.64	20.55	84.19	105.6	-21.41	AV
688.8000	31.15	20.64	51.79	70.84	-19.05	QP
968.6800	35.12	21.26	56.38	67.88	-11.50	QP
1222.3900	24.66	22.32	46.98	65.86	-18.88	QP

Note:

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

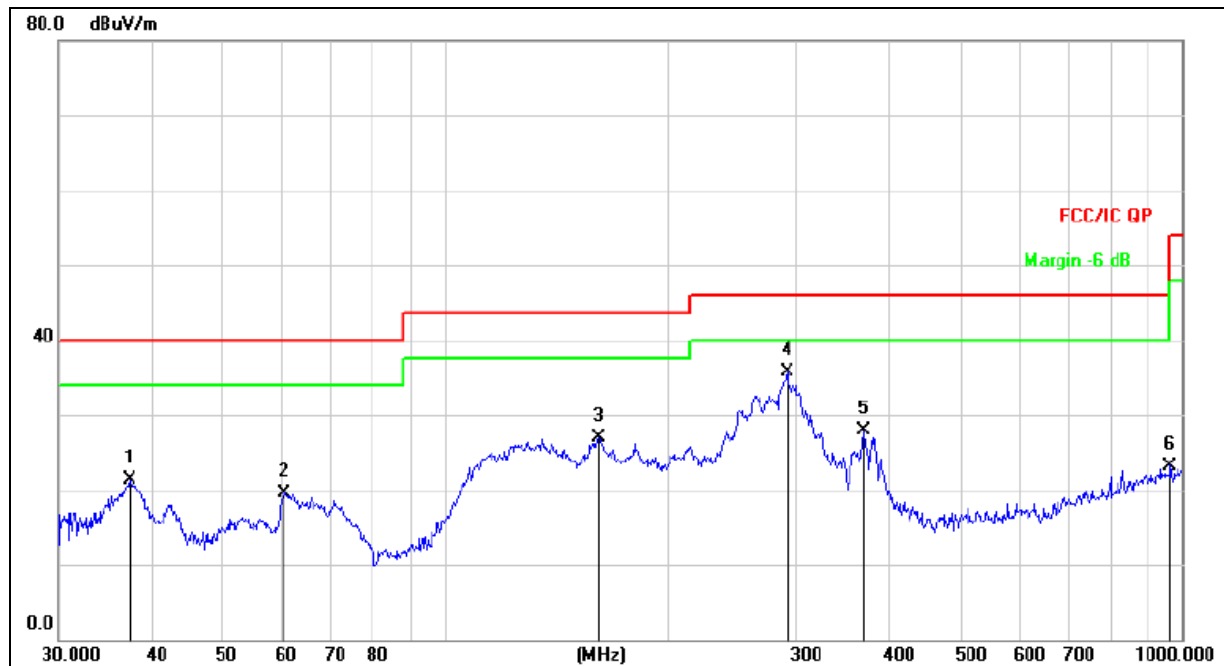
Factor = antenna factor + cable loss – pre-amplifier.

Margin = Emission Level- Limit.



30MHz-1GHz

EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz		
Test Mode :	Wireless Input		



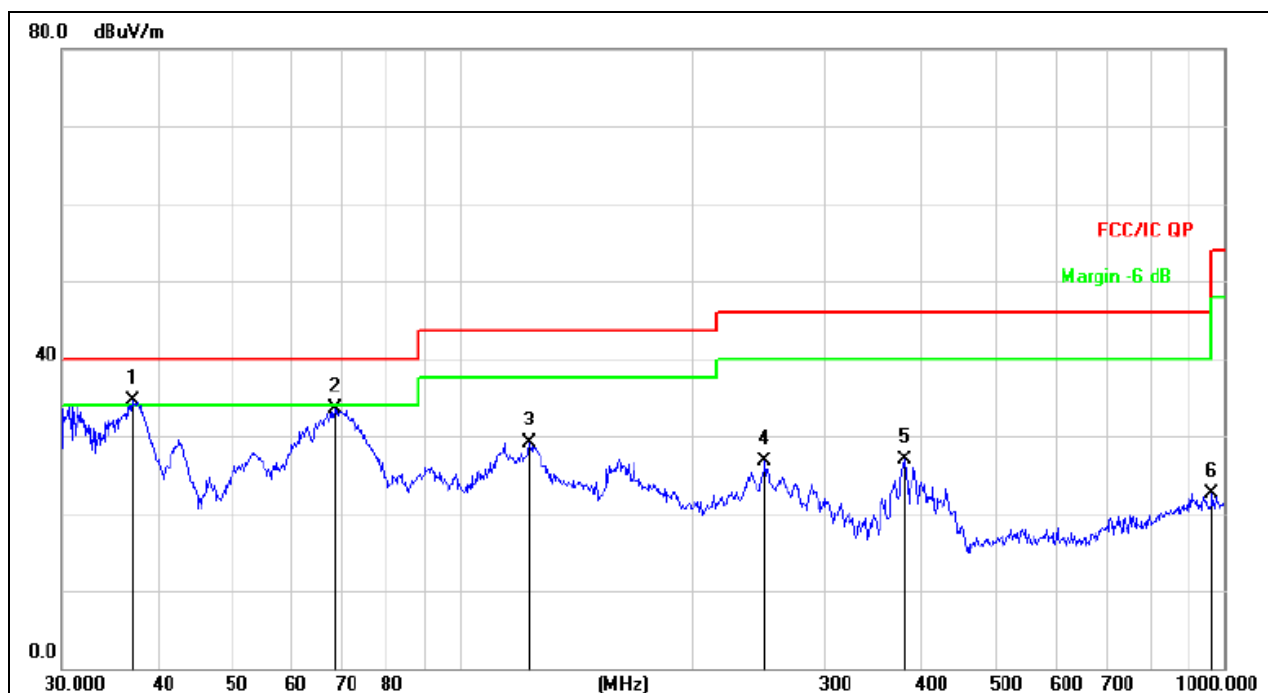
Remark:

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		37.4165	37.24	-15.89	21.35	40.00	-18.65	QP
2		60.7044	35.59	-16.07	19.52	40.00	-20.48	QP
3		162.0414	45.55	-18.73	26.82	43.50	-16.68	QP
4	*	291.0360	49.68	-13.88	35.80	46.00	-10.20	QP
5		370.7023	39.60	-11.76	27.84	46.00	-18.16	QP
6		962.1623	24.24	-1.04	23.20	54.00	-30.80	QP



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 5V from Adapter Input AC 120V/60Hz		
Test Mode :	Wireless Input		



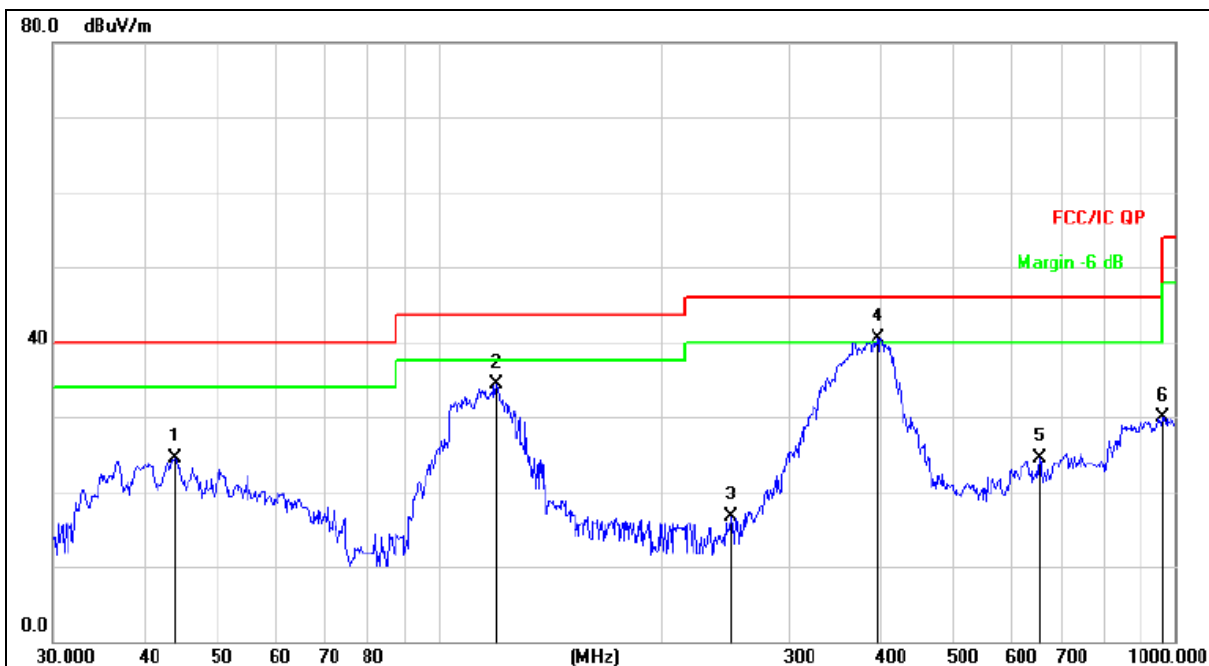
Remark:

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	*	37.0248	50.44	-15.97	34.47	40.00	-5.53	QP
2		68.3908	51.42	-17.82	33.60	40.00	-6.40	QP
3		122.8340	46.92	-17.75	29.17	43.50	-14.33	QP
4		250.3012	41.86	-15.14	26.72	46.00	-19.28	QP
5		381.2487	38.51	-11.52	26.99	46.00	-19.01	QP
6		962.1623	23.59	-1.04	22.55	54.00	-31.45	QP



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 9V from Adapter Input AC 120V/60Hz		
Test Mode :	Wireless Input		



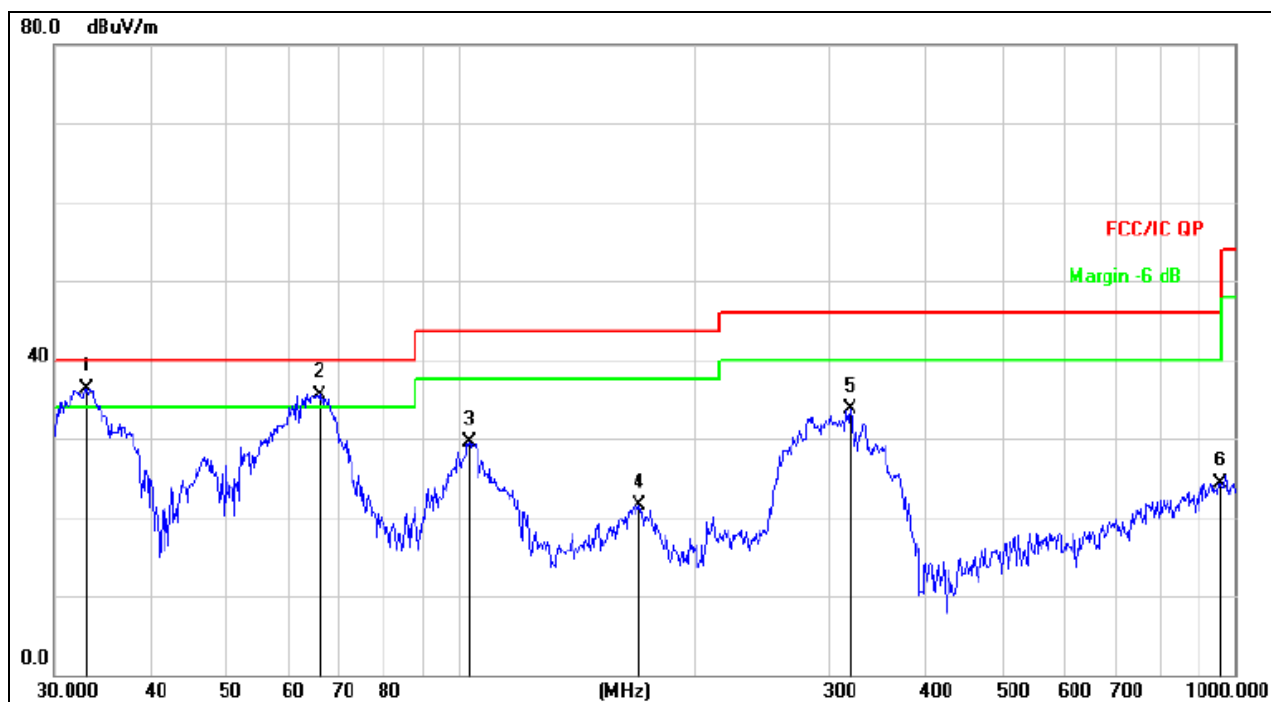
Remark:

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		43.8119	39.64	-15.20	24.44	40.00	-15.56	QP
2		119.8555	51.89	-17.56	34.33	43.50	-9.17	QP
3		249.4250	31.92	-15.16	16.76	46.00	-29.24	QP
4	*	394.8543	51.70	-11.21	40.49	46.00	-5.51	QP
5		654.2318	31.26	-6.67	24.59	46.00	-21.41	QP
6		958.7943	30.94	-1.06	29.88	46.00	-16.12	QP



EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 9V from Adapter Input AC 120V/60Hz		
Test Mode :	Wireless Input		



Remark:

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

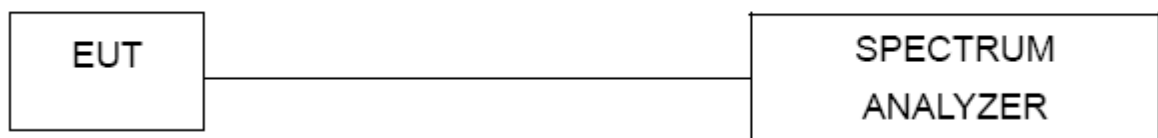
No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1	*	32.9791	53.07	-16.72	36.35	40.00	-3.65	QP
2	!	66.0340	52.78	-17.29	35.49	40.00	-4.51	QP
3		102.7192	46.06	-16.46	29.60	43.50	-13.90	QP
4		170.1947	39.70	-18.21	21.49	43.50	-22.01	QP
5		318.8170	46.69	-13.08	33.61	46.00	-12.39	QP
6		955.4379	25.38	-1.08	24.30	46.00	-21.70	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.

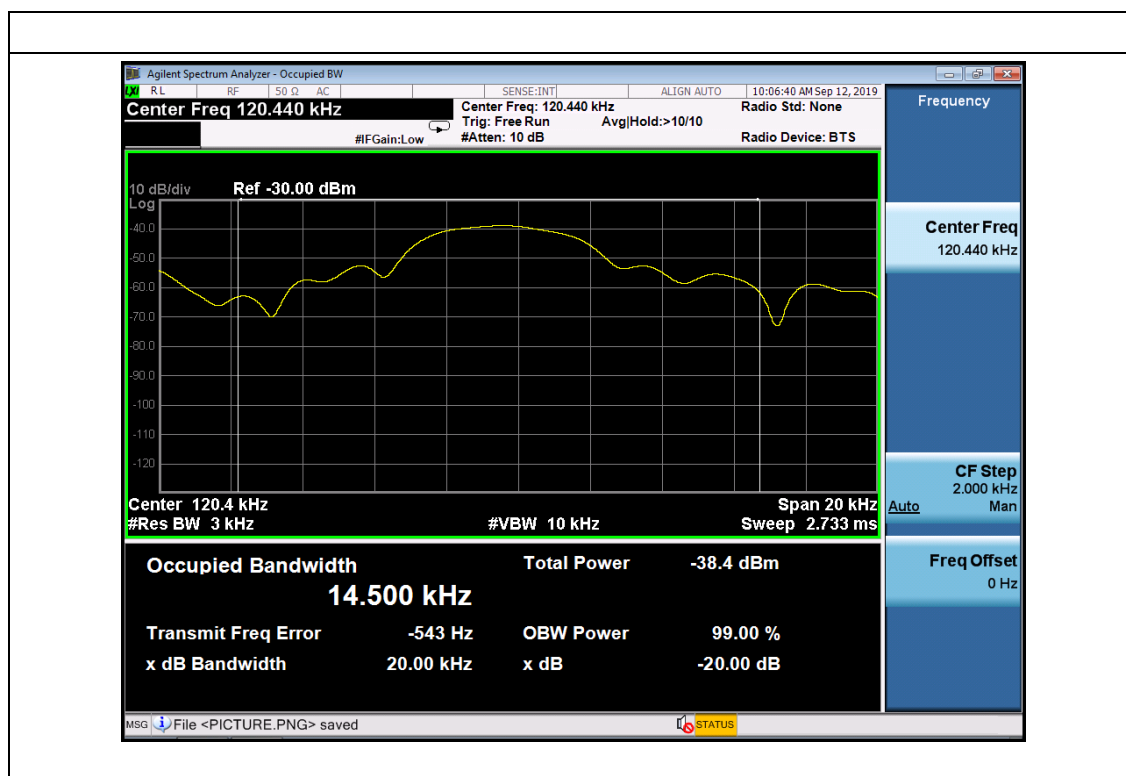
TEST SETUP





EUT:	Wireless charger	Model Name :	S65
Temperature:	26 °C	Relative Humidity:	54%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
120.4	20.00	14.500	Pass





8. EUT TEST PHOTOS

Conducted Measurement Photos





Radiated Measurement Photos

9KHz-30MHz



30MHz-1GHz





9. EUT PHOTOS



***** END OF REPORT
