FCC TEST REPORT

FCC ID:2ARLC-VA4913

Product Name:	Wireless charger
Trademark:	RIVACASE
Model Number:	VA4913 VA4914
Prepared For : Address :	RIVA LLC 541 Jefferson ave, Ste 100, Redwood City, CA 94063
Prepared By : Address :	Shenzhen BCTC Testing Co., Ltd. BCTC Building & 1-2F, East of B Building, Pengzhou Industrial, Fuyuan 1st Road, Qiaotou Community, Fuyong Street, Bao'an District, Shenzhen, China
Test Date:	Sep. 26, 2018 – Oct. 22, 2018
Date of Report :	Oct. 22, 2018
Report No.:	BCTC-LH180902635E

TABLE OF CONTENTS

TEST REPORT DECLARATION 3
1.GENERAL INFORMATION 4
1.1. Report information 4
1.2. Measurement Uncertainty 4
1.3. Test Facility 4
1.4. Test Uncertainty 4
2.PRODUCT DESCRIPTION 5
2.1. EUT Description 5
2.2. Test mode 5
2.3. Block Diagram of EUT Configuration 5
2.4. Test Conditions 5
2.5. Description Of Support Units (Conducted Mode) 6
3.TEST RESULTS SUMMARY 6
4.TEST EQUIPMENT USED 7
4.1. For Conducted Emission Test 7
4.2. For Radiated Emission Measurement 7
5.CONDUCTED EMISSION TEST 8
5.1. Block Diagram of Test Setup 8
5.2. Test Standard 8
5.3. Conducted Emission Limit 8
5.4. EUT Configuration on Test 8
5.5. Operating Condition of EUT 9
5.6. Test Procedure 9
5.7. Test Result 9
6.RADIATED EMISSION MEASUREMENT 14
6.1. Block Diagram of Test Setup 14
6.2. Test Standard and Limit 15
6.3. EMI Test Receiver Setup 16
6.4. Test Procedure 16
6.5. Test Result 16
7.BANDWIDTH TEST 23
8.EUT TEST PHOTOS 25
9.EUT PHOTOS 27

TEST REPORT DECLARATION

Applicant	:	RIVA LLC
Address	:	541 Jefferson ave, Ste 100, Redwood City, CA 94063
EUT Description	:	Wireless charger
Model Number	:	VA4913
Serial Model	:	VA4914

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):	Lake Xie	Lake Xie
Reviewer(Supervisor):	Eric Yang	Eric Yang
Approved(Manager):	Carson Zhang	Carson Zhang

倍测检测 BCTC APPROVED SHENZHEN BCTC TESTING CO., LTD

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 Uncertainty	=	±2.66dB
Radiated Emission Uncertainty	=	±4.15dB

2. PRODUCT DESCRIPTION

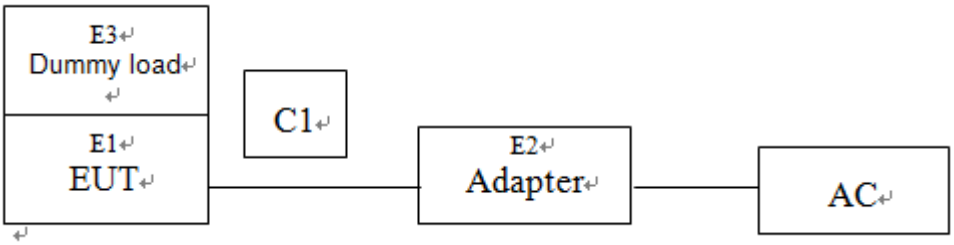
2.1.EUT Description

Description	:	Wireless charger
Applicant	:	**RIVA LLC** 541 Jefferson ave, Ste 100, Redwood City, CA 94063
Manufacturer	:	**Shenzhen Aodehong Electronic Technology Co.,Ltd** 4/F, A1 Bldg, Xiangdali Industrial Zone, Hengping Road, No 87, Henggang Street, Longgang District, Shenzhen, China
Model Number	:	VA4913
Serial Model	:	VA4914
Model Difference	:	Only for different Model name.
Ratings	:	Input：5V-2A，9V-1.67A Output：5V-1A，9V-1.1A
Work Frequency	:	120-205KHz

2.2.Test mode

Test Modes	keeping TX+Charging mode

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	VA4913	N/A	EUT
E2	Adapter	N/A	BCTC-002	N/A	AC100-240V~50/60Hz Output: 5V 2A, 9V 1.5A
E3	Dummy load	N/A	DL01	N/A	

Item	Shielded Type	Ferrite Core	Length	Note
C1	NO	NO	1.0M	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

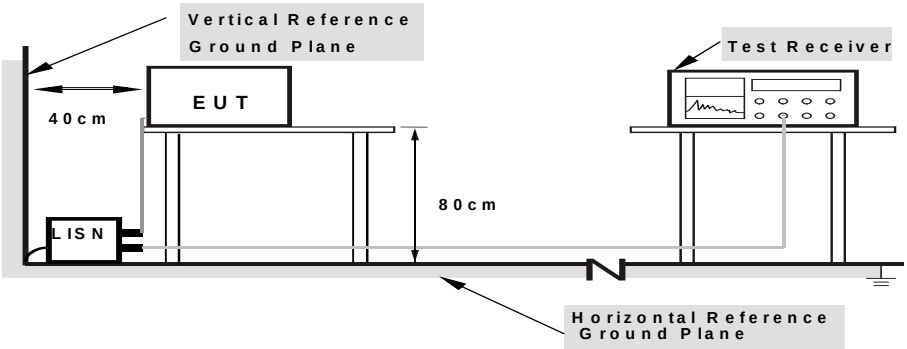
Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
1	Test Receiver	R&S	ESCI	1166.5950K03-101165-ha	2018. 06.19	2019.06.18
2	LISN	SCHWARZBECK	NSLK8127	8127739	2018.06.19	2019.06.18
3	LISN	R&S	NSLK8126	8126487	2018.08.06	2019.08.05
4	RF cables	R&S	R204	R20X	2018.08.06	2019.08.05
5	Attenuator	R&S	ESH3-Z2	143206	2018.08.06	2019.08.05

4.2.For Radiated Emission Measurement

Item	Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
6	Horn Antenna (14GHz-40GHz)	SCHWARZBECK	BBHA 9170	9170-181	2018.08.06	2019.08.05
7	Amplifier (9KHz-6GHz)	SCHWARZBECK	BBV9744	9744-0037	2018.06.20	2019.06.19
8	Amplifier (1GHz-18GHz)	SCHWARZBECK	BBV9718	9718-309	2018.06.20	2019.06.19
9	Amplifier (18GHz-40GHz)	SCHWARZBECK	BBV 9721	9721-205	2018.08.06	2019.08.05
10	Loop Antenna (9KHz-30MHz)	SCHWARZBECK	FMZB1519B	00014	2018.06.23	2019.06.22
11	Bilog Antenna (30MHz-3GHz)	SCHWARZBECK	VULB9163	VULB9163-942	2018.06.23	2019.06.23
12	Horn Antenna (1GHz-18GHz)	SCHWARZBECK	BBHA9120D	1541	2018.06.23	2019.06.22
13	RF cables1 (9kHz-1GHz)	R&S	R203	R20X	2018.08.06	2019.08.05
14	RF cables2 (1GHz-40GHz)	R&S	R204	R21X	2018.08.06	2019.08.05
15	Antenna connector	Florida RF Labs	N/A	RF 01#	2018.08.06	2019.08.05
16	Power Metter	Keysight	E4419	\	2018.04.15	2019.04.15
17	Power Sensor (AV)	Keysight	E9 300A	\	2018.04.15	2019.04.15
18	Signal Analyzer 9kHz-26.5GHz	Agilent	N9010A	MY48030494	2018.08.06	2019.08.05
19	Test Receiver 20kHz-40GHz	R&S	ESU 40	100376	2018.08.06	2019.08.05
20	D.C. Power Supply	LongWei	PS-305D	010964729	2018.08.06	2019.08.05

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.

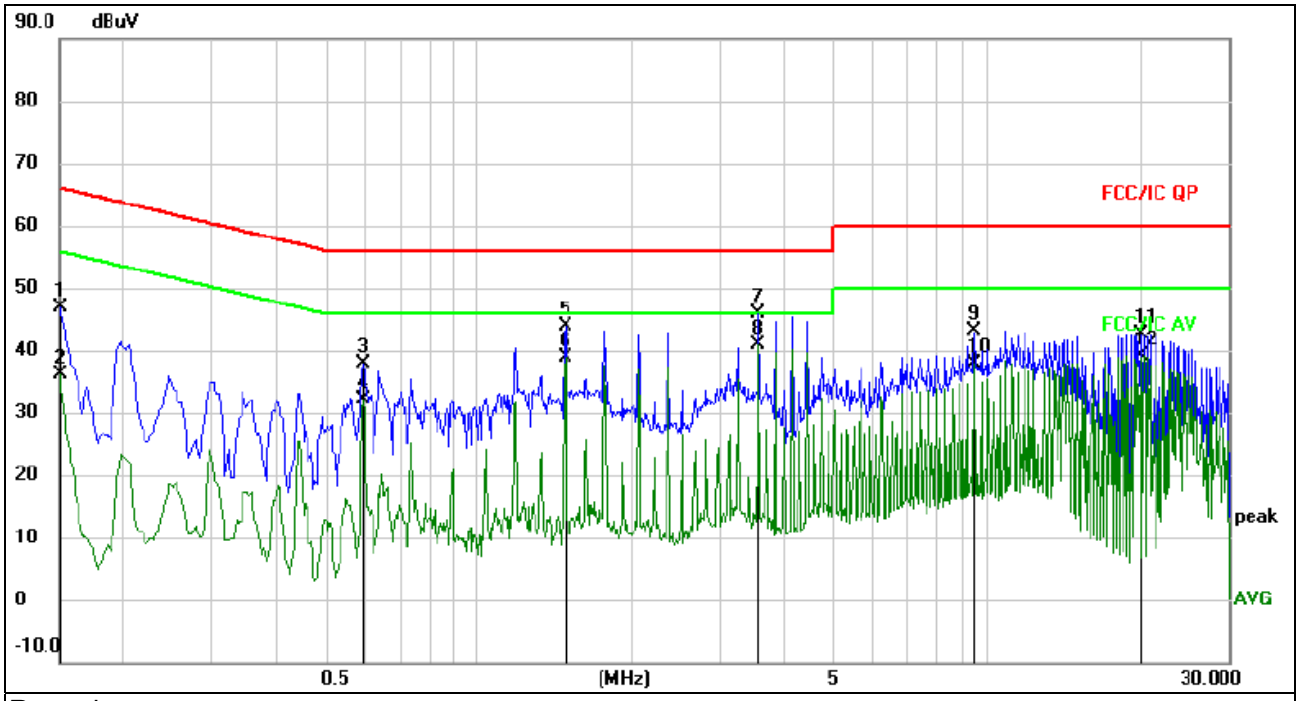
The bandwidth of the test receiver (R&S Test Receiver ESHS30) is set at 10KHz.

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

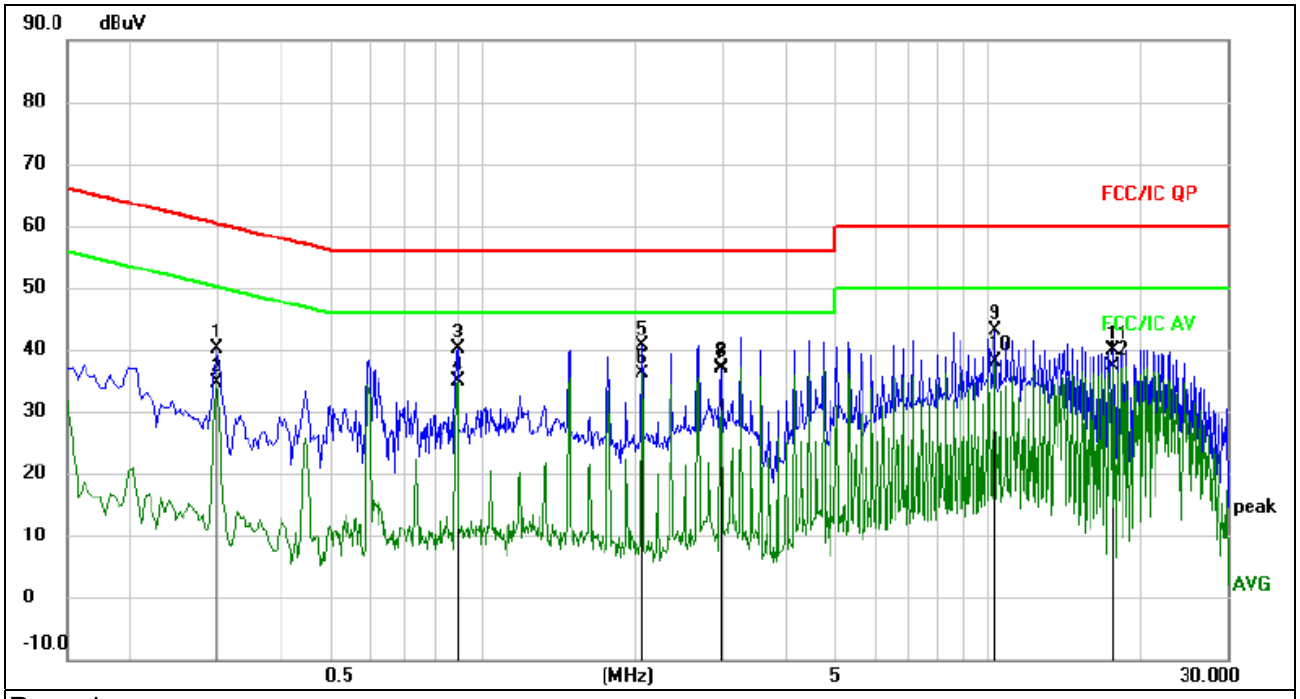
EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Normal



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.1500	37.43	9.52	46.95	66.00	-19.05	QP	
2		0.1500	26.56	9.52	36.08	56.00	-19.92	AVG	
3		0.5940	28.02	9.98	38.00	56.00	-18.00	QP	
4		0.5940	22.05	9.98	32.03	46.00	-13.97	AVG	
5		1.4819	34.35	9.58	43.93	56.00	-12.07	QP	
6		1.4819	29.18	9.58	38.76	46.00	-7.24	AVG	
7		3.5540	36.16	9.70	45.86	56.00	-10.14	QP	
8	*	3.5540	31.15	9.70	40.85	46.00	-5.15	AVG	
9		9.4740	33.43	9.70	43.13	60.00	-16.87	QP	
10		9.4740	28.06	9.70	37.76	50.00	-12.24	AVG	
11		20.1380	32.89	9.79	42.68	60.00	-17.32	QP	
12		20.1380	29.30	9.79	39.09	50.00	-10.91	AVG	

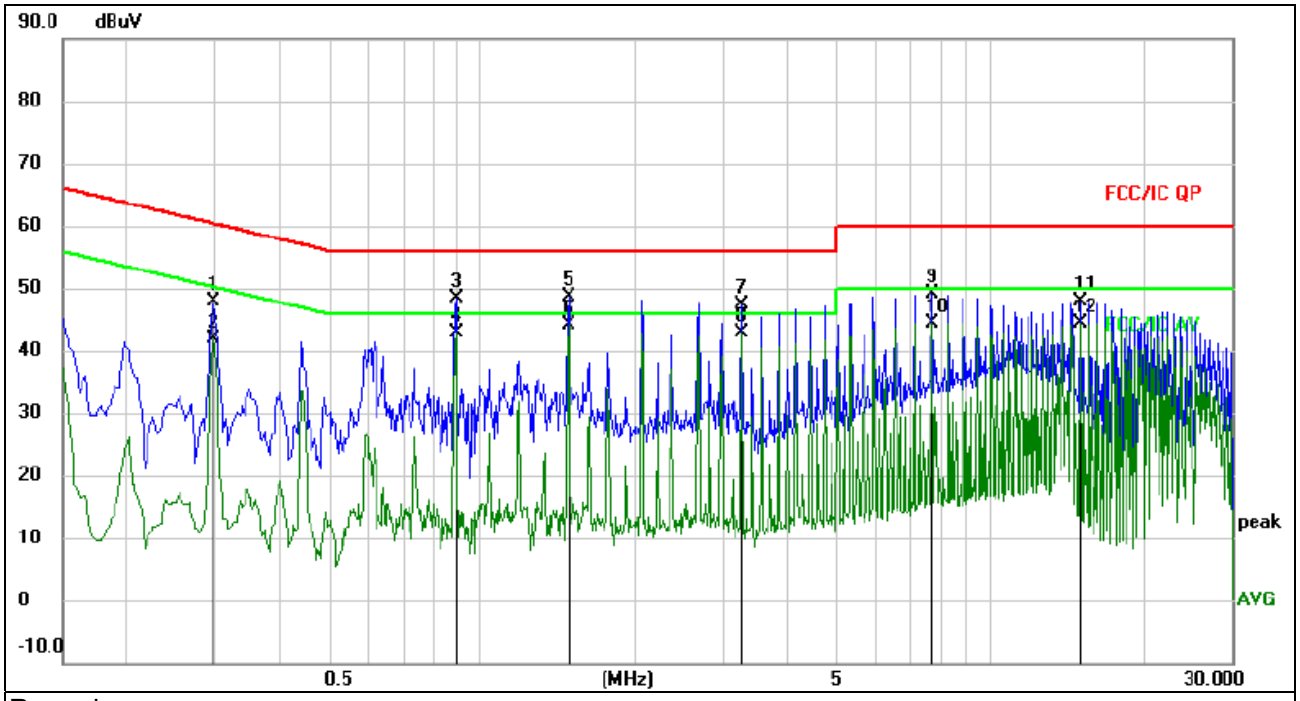
EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 5V form Adapter AC 120V/60Hz	Test Mode:	Normal



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.2980	30.54	9.58	40.12	60.30	-20.18	QP	
2		0.2980	25.03	9.58	34.61	50.30	-15.69	AVG	
3		0.8900	30.52	9.60	40.12	56.00	-15.88	QP	
4		0.8900	25.23	9.60	34.83	46.00	-11.17	AVG	
5		2.0740	31.09	9.60	40.69	56.00	-15.31	QP	
6		2.0740	26.51	9.60	36.11	46.00	-9.89	AVG	
7		2.9620	27.17	9.66	36.83	56.00	-19.17	QP	
8	*	2.9620	27.56	9.66	37.22	46.00	-8.78	AVG	
9		10.3620	33.36	9.69	43.05	60.00	-16.95	QP	
10		10.3620	28.37	9.69	38.06	50.00	-11.94	AVG	
11		17.7660	30.10	9.75	39.85	60.00	-20.15	QP	
12		17.7660	27.51	9.75	37.26	50.00	-12.74	AVG	

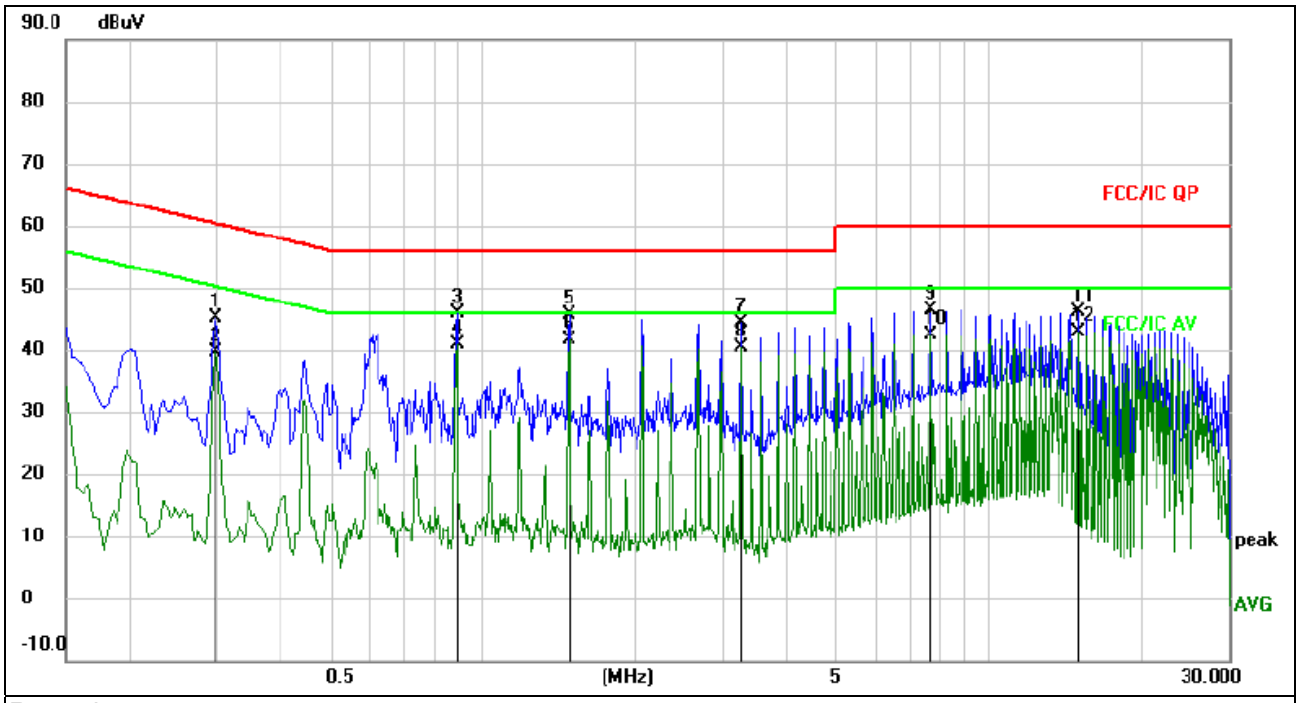
EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	L
Test Voltage :	DC 9V form Adapter AC 120V/60Hz	Test Mode:	Normal



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.2980	38.34	9.58	47.92	60.30	-12.38	QP	
2		0.2980	32.38	9.58	41.96	50.30	-8.34	AVG	
3		0.8900	38.70	9.60	48.30	56.00	-7.70	QP	
4		0.8900	33.33	9.60	42.93	46.00	-3.07	AVG	
5		1.4819	39.06	9.58	48.64	56.00	-7.36	QP	
6	*	1.4819	34.52	9.58	44.10	46.00	-1.90	AVG	
7		3.2580	37.62	9.68	47.30	56.00	-8.70	QP	
8		3.2580	33.25	9.68	42.93	46.00	-3.07	AVG	
9		7.7020	39.40	9.71	49.11	60.00	-10.89	QP	
10		7.7020	34.78	9.71	44.49	50.00	-5.51	AVG	
11		15.1060	38.06	9.70	47.76	60.00	-12.24	QP	
12		15.1060	34.78	9.70	44.48	50.00	-5.52	AVG	

EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Phase :	N
Test Voltage :	DC 9V form Adapter AC 120V/60Hz	Test Mode:	Normal



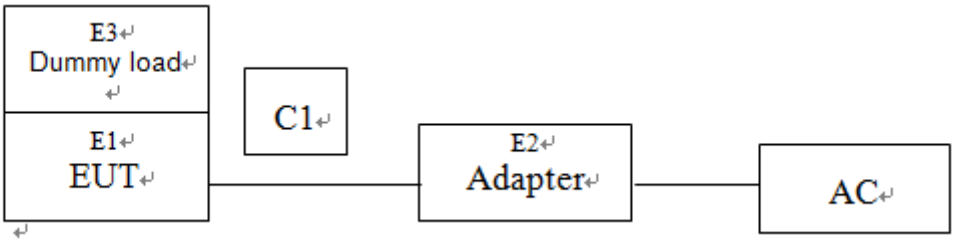
Remark:
1. All readings are Quasi-Peak and Average values.
2. Factor = Insertion Loss + Cable Loss.

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV		dBuV	dBuV	dB	Detector	Comment
1		0.2980	35.50	9.58	45.08	60.30	-15.22	QP	
2		0.2980	30.13	9.58	39.71	50.30	-10.59	AVG	
3		0.8900	36.20	9.60	45.80	56.00	-10.20	QP	
4		0.8900	31.23	9.60	40.83	46.00	-5.17	AVG	
5		1.4819	36.01	9.58	45.59	56.00	-10.41	QP	
6	*	1.4819	32.12	9.58	41.70	46.00	-4.30	AVG	
7		3.2580	34.58	9.68	44.26	56.00	-11.74	QP	
8		3.2580	30.77	9.68	40.45	46.00	-5.55	AVG	
9		7.7020	36.63	9.71	46.34	60.00	-13.66	QP	
10		7.7020	32.67	9.71	42.38	50.00	-7.62	AVG	
11		15.1060	36.47	9.70	46.17	60.00	-13.83	QP	
12		15.1060	33.18	9.70	42.88	50.00	-7.12	AVG	

6. RADIATED EMISSION MEASUREMENT

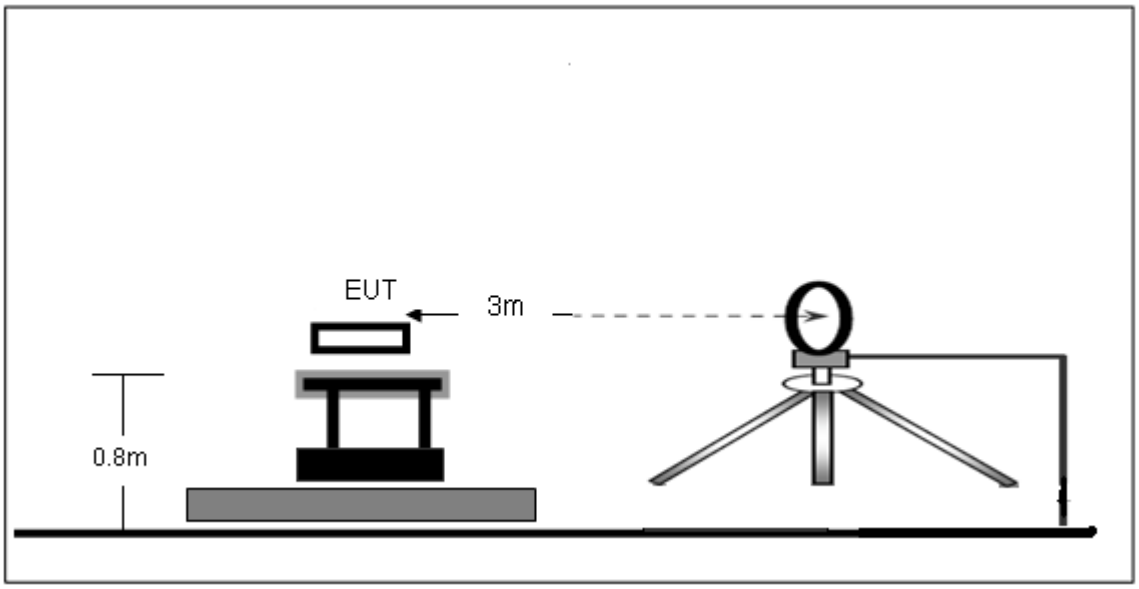
6.1.Block Diagram of Test Setup

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

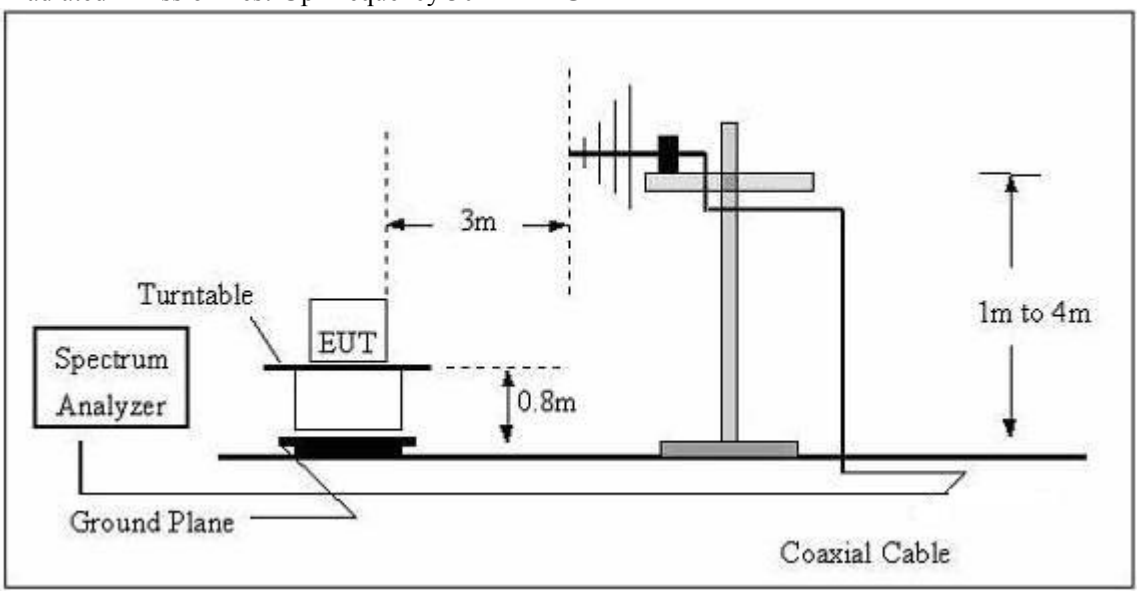


6.1.2.Anechoic Chamber Test Setup Diagram

（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 to1GHz.
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 a 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 :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 5V form Adapter AC120V/60Hz		
Test Mode :	Normal		

Frequency (kHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
28.8400	36.16	20.15	56.31	138.40	-82.09	PK
28.8400	32.18	20.15	52.33	118.40	-66.07	AV
56.7500	49.57	20.33	69.90	132.52	-62.62	PK
56.7500	44.17	20.33	64.50	112.52	-48.02	AV
135.6000	58.68	20.55	79.23	124.96	-45.73	PK
135.6000	53.48	20.55	74.03	104.96	-30.93	AV
780.2500	31.31	20.64	51.95	69.76	-17.81	QP
941.5500	34.17	21.26	55.43	68.13	-12.70	QP
1320.8500	25.69	22.32	48.01	65.19	-17.18	QP

Note:
Factor = antenna factor + cable loss – pre-amplifier.
Margin = Emission Level- Limit.

9kHz-30MHz

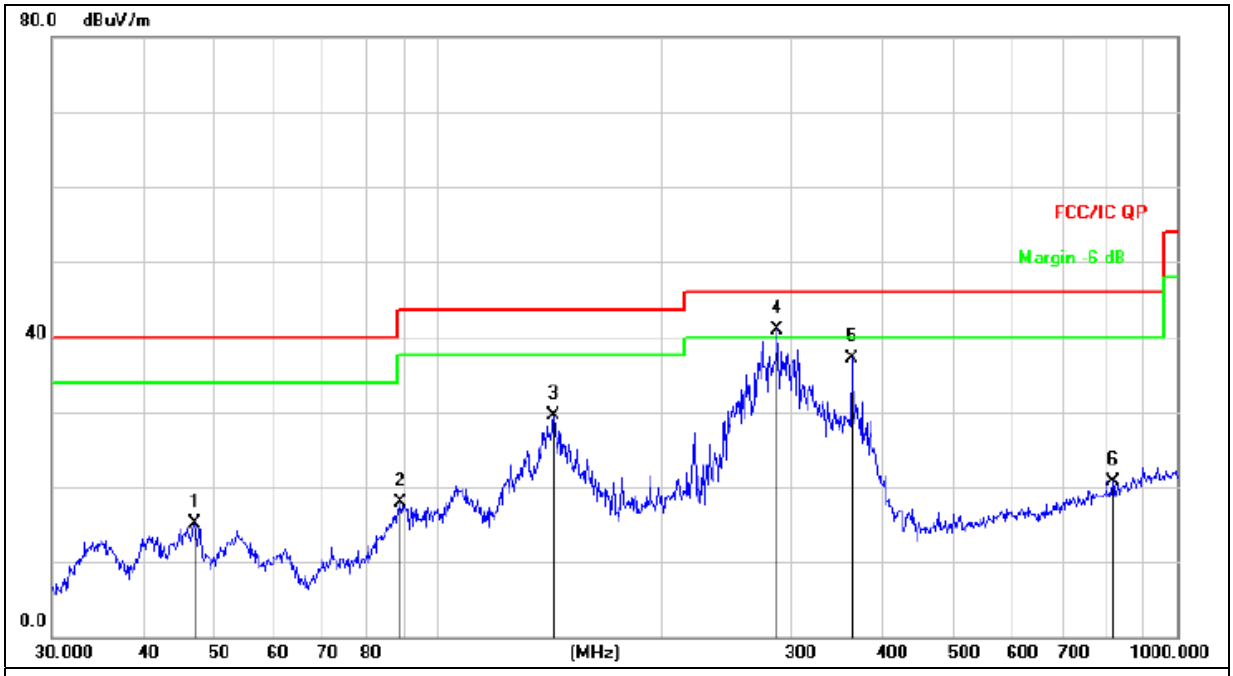
EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 9V form Adapter AC120V/60Hz		
Test Mode :	Normal		

Frequency (kHz)	Meter Reading (dBμV)	Factor (dB)	Emission Level (dBμV/m)	Limits (dBμV/m)	Margin (dB)	Detector Type
28.5500	35.14	20.15	55.29	138.49	-83.20	PK
28.5500	32.45	20.15	52.60	118.49	-65.89	AV
56.6500	48.78	20.33	69.11	132.54	-63.43	PK
56.6500	44.11	20.33	64.44	112.54	-48.10	AV
135.6000	58.91	20.55	79.46	124.96	-45.50	PK
135.6000	53.01	20.55	73.56	104.96	-31.40	AV
780.4000	30.15	20.64	50.79	69.76	-18.97	QP
941.6500	34.29	21.26	55.55	68.13	-12.58	QP
1320.9500	25.14	22.32	47.46	65.19	-17.73	QP

Note:
Factor = antenna factor + cable loss – pre-amplifier.
Margin = Emission Level- Limit.

30MHz-1GHz

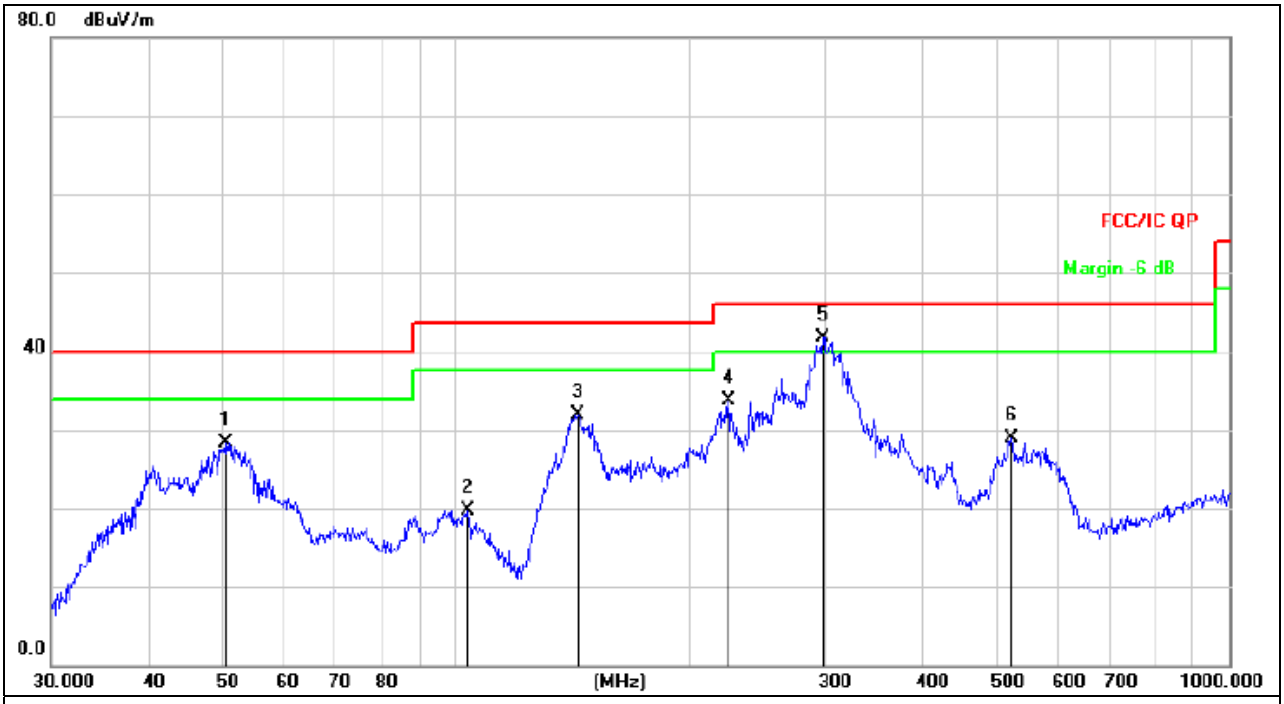
EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 5V form Adapter AC120V/60Hz		
Test Mode :	Normal		



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		46.8303	30.14	-15.03	15.11	40.00	-24.89	QP
2		88.9639	36.30	-18.34	17.96	43.50	-25.54	QP
3		143.3261	48.54	-19.07	29.47	43.50	-14.03	QP
4	*	287.9904	54.82	-13.97	40.85	46.00	-5.15	QP
5		362.9844	49.09	-11.93	37.16	46.00	-8.84	QP
6		818.8341	23.95	-3.22	20.73	46.00	-25.27	QP

EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 5V form Adapter AC120V/60Hz		
Test Mode :	Normal		



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

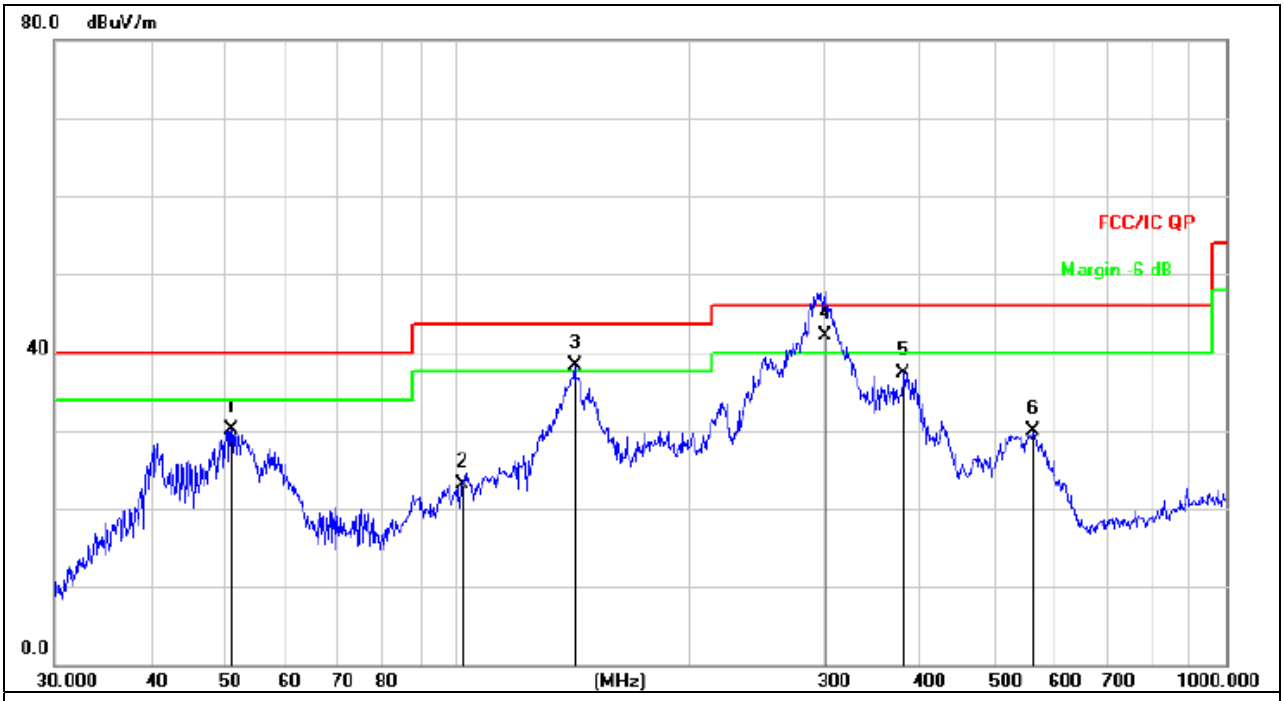
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		50.4089	43.25	-14.89	28.36	40.00	-11.64	QP
2		103.8055	36.24	-16.53	19.71	43.50	-23.79	QP
3		143.8295	51.09	-19.10	31.99	43.50	-11.51	QP
4		225.3080	49.46	-15.72	33.74	46.00	-12.26	QP
5	*	298.2681	55.40	-13.65	41.75	46.00	-4.25	QP
6		522.7180	37.25	-8.37	28.88	46.00	-17.12	QP

EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Horizontal
Test Voltage :	DC 9V form Adapter AC120V/60Hz		
Test Mode :	Normal		

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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		46.5030	33.15	-15.05	18.10	40.00	-21.90	QP
2		124.1330	51.69	-17.83	33.86	43.50	-9.64	QP
3		143.3261	55.94	-19.07	36.87	43.50	-6.63	QP
4	*	292.3950	59.45	-13.84	45.61	46.00	-0.39	QP
5		524.5541	36.46	-8.32	28.14	46.00	-17.86	QP
6		912.8620	23.42	-1.40	22.02	46.00	-23.98	QP

EUT:	Wireless charger	Model Name :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa	Polarization :	Vertical
Test Voltage :	DC 9V form Adapter AC120V/60Hz		
Test Mode :	Normal		



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

No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over	
		MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
1		50.9420	45.06	-14.95	30.11	40.00	-9.89	QP
2		101.2885	39.52	-16.36	23.16	43.50	-20.34	QP
3	!	142.3243	57.32	-19.01	38.31	43.50	-5.19	QP
4	*	301.2965	55.76	-13.56	42.20	46.00	-3.80	QP
5		381.2487	48.92	-11.52	37.40	46.00	-8.60	QP
6		560.6928	37.42	-7.43	29.99	46.00	-16.01	QP

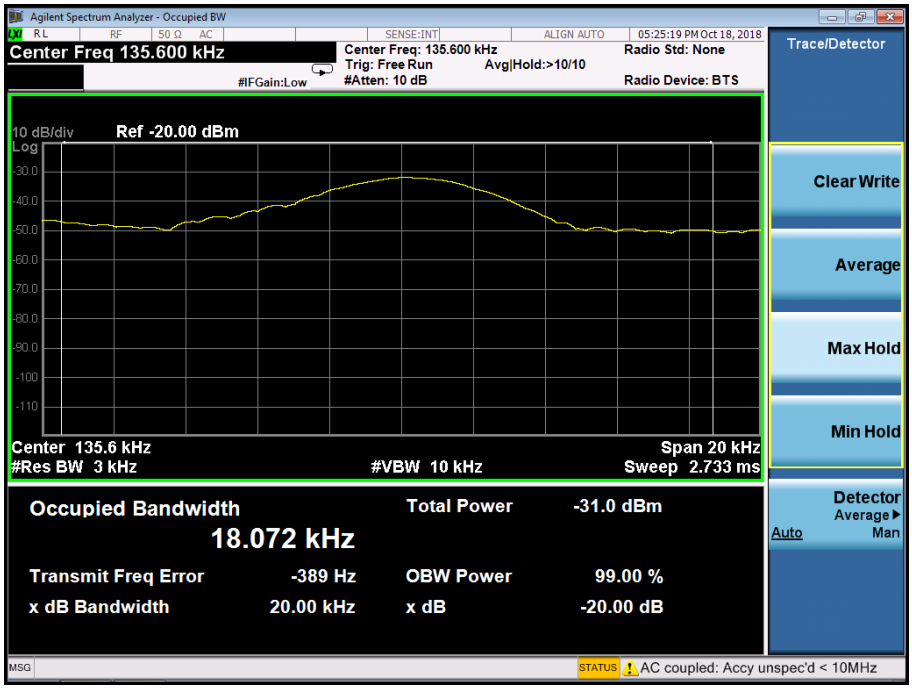
7. BANDWIDTH TEST

1. Set RBW = 3 kHz.
2. Set the video bandwidth (VBW) ≥ 3 x 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 :	VA4913
Temperature:	26 ℃	Relative Humidity:	54%
Pressure:	101kPa		

Frequency (KHz)	20dB bandwidth (KHz)	99% bandwidth (KHz)	Result
135.6	20.00	18.072	Pass



Note:
Pre-scan in the all of mode, the worst case DC 5V is was recorded.

8. EUT TEST PHOTOS

Conducted Measurement Photos

Radiated Measurement Photos

9KHz-30MHz

30MHz-1GHz

9. EUT PHOTOS

※※※※※ **END OF REPORT** ※※※※※