ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT CONSUMER ISM EQUIPMNET CERTIFICATION TO FCC PART 18 SUBPART C REQUIREMENT

OF

Verizon Wireless Charging Pad

Model No.: WC10WGGL-AL, 60-4625-05-XP, 60-4624-05-XP

Trademark: Verizon, ELIXAGE

FCC ID: 2AU7DWC10WGGL

Report No.: EA1911316F 01001

Issue Date: Nov. 30, 2019

Prepared for

Shenzhen PYS Industrial Co., LTD

Building 9th, Lianhua Industrial Zone, Longyuan Road, Longhua Street, Longhua District, Shenzhen

Prepared by

Dong Guan Anci Electronic Technology Co., Ltd.

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TABLE OF CONTENT

TEST REPORT DESCRIPTION

Applicant	:	Shenzhen PYS Industrial Co., LTD Building 9th, Lianhua Industrial Zone, Longyuan Road, Longhua Street, Longhua District, Shenzhen
Manufacturer 1.	:	Shenzhen PYS Industrial Co., LTD Building 9th, Lianhua Industrial Zone, Longyuan Road, Longhua Street, Longhua District, Shenzhen
Manufacturer 2.		PYS VIETNAM TECHNOLOGY COMPANY LIMITED Lot CN-06,THUAN THANH II INDUSTRIAL ZONE, MAO DIEN COMMUNE, THUAN THANH DISTRICT, BACNINH, VIETNAM
Trade Mark	:	Verizon, ELIXAGE
EUT	:	Verizon Wireless Charging Pad
Model No.	:	WC10WGGL-AL, 60-4625-05-XP, 60-4624-05-XP
Power Supply	:	DC 3.6-6V,3A, DC 6.2-9V,2A(QC3.0), DC 9.2-12V, 1.5A(QC3.0)from adapter

Measurement Procedure Used:

FCC Rules and Regulations Part 18 Subpart C
MP-5: 1986

The device described above is tested by Dong Guan Anci Electronic Technology Co., Ltd. to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Dong Guan Anci Electronic Technology Co., Ltd. is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Dong Guan Anci Electronic Technology Co., Ltd.

Date of Test : November 26, 2019 to November 30, 2019

Prepared by : Tomas Yang/Supervisor

Approved & Authorized Signer : Alan He/Manager

Modified Information

Version	Report No.	Revision Data	Summary
Ver.1.0	EA1911316F 01001	/	Original Version

1. SUMMARY OF TEST RESULTS

EMISSION		
Description of Test Item	Standard & Limits	Results
Conducted Disturbance at Mains Terminals	FCC Part 18 Subpart C FCC OST MP-5: 2015	Pass
Radiated Disturbance	FCC Part 18 Subpart C FCC OST MP-5: 2015	Pass
Note: N/A is an abbreviation for Not Applicable.		

2. GENERAL INFORMATION

2.1. Description of Device (EUT)

EUT	:	Verizon Wireless Charging Pad
Model Number	:	WC10WGGL-AL, 60-4625-05-XP, 60-4624-05-XP Note: The circuit principle and PCB layout of all models are exactly the same. Except for the shell shape, the model: WC10WGGL-AL is circular. The other two models have the same shape, but the colors are different. We choose the model: WC10WGGL-AL for all tests
Test Model Number	:	WC10WGGL-AL
Test Voltage	:	AC 120V 60Hz for Adapter
Adapter Information	:	Model:580245A071 Input:100-240V~500mA,50/60Hz Output:DC 3.6-6V,3A, DC 6.2-9V, 2A ,DC 9.2-12V, 1.5A
Operating Frequency	:	110-205KHz
Modulation Technique	:	ASK
Max Wireless output power	:	10W
Operation Mode	:	Wireless Charging(5W), Wireless Charging(10W)
Applicant	:	Shenzhen PYS Industrial Co., LTD
Address	:	Building 9th, Lianhua Industrial Zone, Longyuan Road, Longhua Street, Longhua District, Shenzhen
Manufacturer 1.	:	Shenzhen PYS Industrial Co., LTD
Address	:	Building 9th, Lianhua Industrial Zone, Longyuan Road, Longhua Street, Longhua District, Shenzhen
Manufacturer 2.	:	PYS VIETNAM TECHNOLOGY COMPANY LIMITED
Address	:	Lot CN-06,THUAN THANH II INDUSTRIAL ZONE, MAO DIEN COMMUNE, THUAN THANH DISTRICT, BACNINH, VIETNAM
Date of Received	:	November 26, 2019
Date of Test	:	November 26, 2019 to November 30, 2019

2.2. Input / Output Ports

Port #	Name	Type*	Cable Max. >3m	Cable Shielded	Comments
0	Power Input Port	I/O	--	--	1 Port

* Note: Use abbreviations:
AC= AC Power Port
DC= DC Power Port
N/E= Non-Electrical
I/O= Signal Input or Output Port (Not Involved in Process Control)
TP= Telecommunication Ports

2.3. Independent Operation Modes

Wireless Charging

2.4. Test Manner

Test Items	Test Voltage	Operation Modes	Worst case
Conducted Emission	AC120V/60Hz	Wireless Charging	N/A
Radiated Emission	AC120V/60Hz	Wireless Charging	N/A

2.5. Description of 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 : Bldg 69, Majialong Industry Zone, Nanshan District, Shenzhen, Guangdong, China.

2.6. Test Software

Item		Software
Conducted Disturbance at Mains Terminals	:	EZ-EMC Ver:ANCI-3A1
Radiated Disturbance	:	EZ-EMC Ver:ANCI-3A1

2.7. Description of Support Device

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1.	iPhone	Apple Inc.	A1387	N/A	N/A
2	Adapter	N/A	580245A087	N/A	N/A
3.	Wireless Charging Receiver Module	Universal	N/A	N/A	N/A
4.	SAMSUNG S9	SAMSUNG	Samsung Galaxy S9	N/A	N/A

2.8. Measurement Uncertainty

Test Item		Uncertainty
Conducted Emission Uncertainty	:	2.96dB(9k~150kHz Conduction 1#) 2.74dB(150k-30MHz Conduction 1#)
Radiated Emission Uncertainty (3m Chamber)	:	3.78dB (30M~1GHz Polarize: H) 4.27dB (30M~1GHz Polarize: V)

3. MEASURING DEVICE AND TEST EQUIPMENT

3.1. For Power Line Conducted Emission Measurement

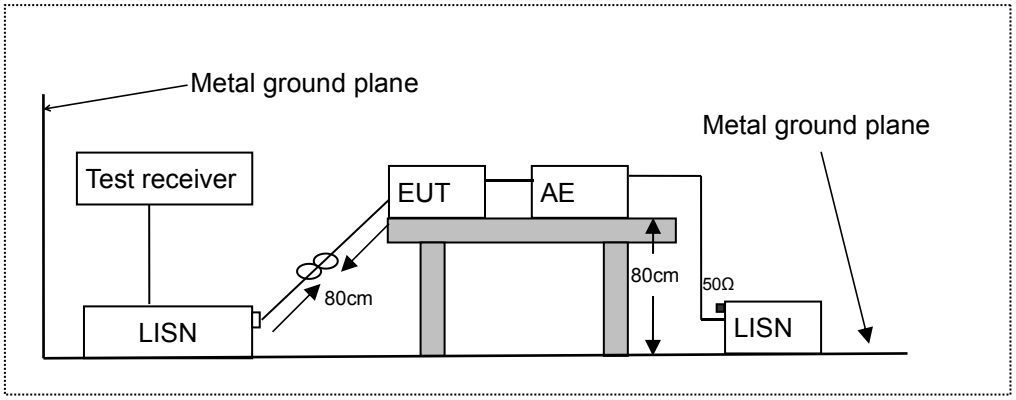
Item	EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	Calibrated until
1.	L.I.S.N	SCHWARZBECK	NSLK 8127	8127-669	2020-05-19
2.	10 db attenuator	JFW	50FP-010-H4	4360846-427-1	2020-05-19
3.	RF Cable	N/A	N/A	2#	2020-05-19
4.	EMI Test Receiver	ROHDE&SCHWARZ	ESCI	101358	2020-05-19

3.2. For Radiated Emission Measurement

Item	Equipment	Manufacturer	Model No.	Serial No.	Calibrated until
5.	EMI Test Receiver	Rohde & Schwarz	ESPI	100502	2020-11-29
6.	Pre-Amplifier	HP	8447D	2727A06172	2020-05-19
7.	Bilog Antenna	Schwarzbeck	VULB9163	VULB9163-588	2020-05-19
8.	Loop Antenna	Schwarzbeck	FMZB 1516	1516-141	2020-01-04
9.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-2m	N/A	2020-03-12
10.	RF Cable	Gigalink Microwave	ZT40-2.92J-2.92 J-0.3m	N/A	2020-03-12
11.	RF Cable	N/A	N/A	6#	2020-05-19
12.	3m Semi-anechoic Chamber	chengyu	9m*6m*6m	N/A	2020-05-19
13.	Test Software	Farad	EZ-EMC Ver:ANCI-3A1	N/A	N/A

4. POWER LINE CONDUCTED EMISSION MEASUREMENT

4.1. Block Diagram of Test Setup



LISN: Line Impedance Stabilization Network
AE: Associated equipment
EUT: Equipment under test

4.2. Measuring Standard

FCC Part 18 and MP-5

4.3. Power Line Conducted Emission Limits

☒All induction cooking ranges and ultrasonic equipment:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.09-0.05	110	---
0.05-0.15	90-80*	---
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

■All other part 18 consumer devices:

Frequency range (MHz)	Limit dB(uV)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

Remark: * Decreases with the logarithm of the frequency.
In the above table, the tighter limit applies at the band edges.

☒RF lighting devices:

Frequency range (MHz)	Maximum RF line voltage measured with a 50 uH/50 ohm LISN(uV)
0.45-1.6	1000
1.6-30	3000
Consumer equipment	
0.45-2.51	250
2.51-3.0	3000
3.0-30	250

4.4. EUT Configuration on Measurement

The following equipments are installed on Conducted Emission Measurement to meet FCC requirements and operating in a manner which tends to maximize its emission characteristics in a normal application.

EUT : Verizon Wireless Charging Pad
Model Number : WC10WGGL-AL

4.5. Operating Condition of EUT

4.5.1.Setup the EUT as shown on Section 4.1.

4.5.2.Turn on the power of all equipment.

4.5.3. Let the EUT work in measuring mode (Wireless Charging) and measure it.

4.6. Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipments. Both sides of AC line are investigated to find out the maximum conducted emission according to the FCC regulations during conducted emission measurement.
The bandwidth of the Test Receiver is set at 9kHz in 150kHz~30MHz and 200Hz in 9kHz~150kHz.

The frequency range from 9kHz to 30MHz is investigated.

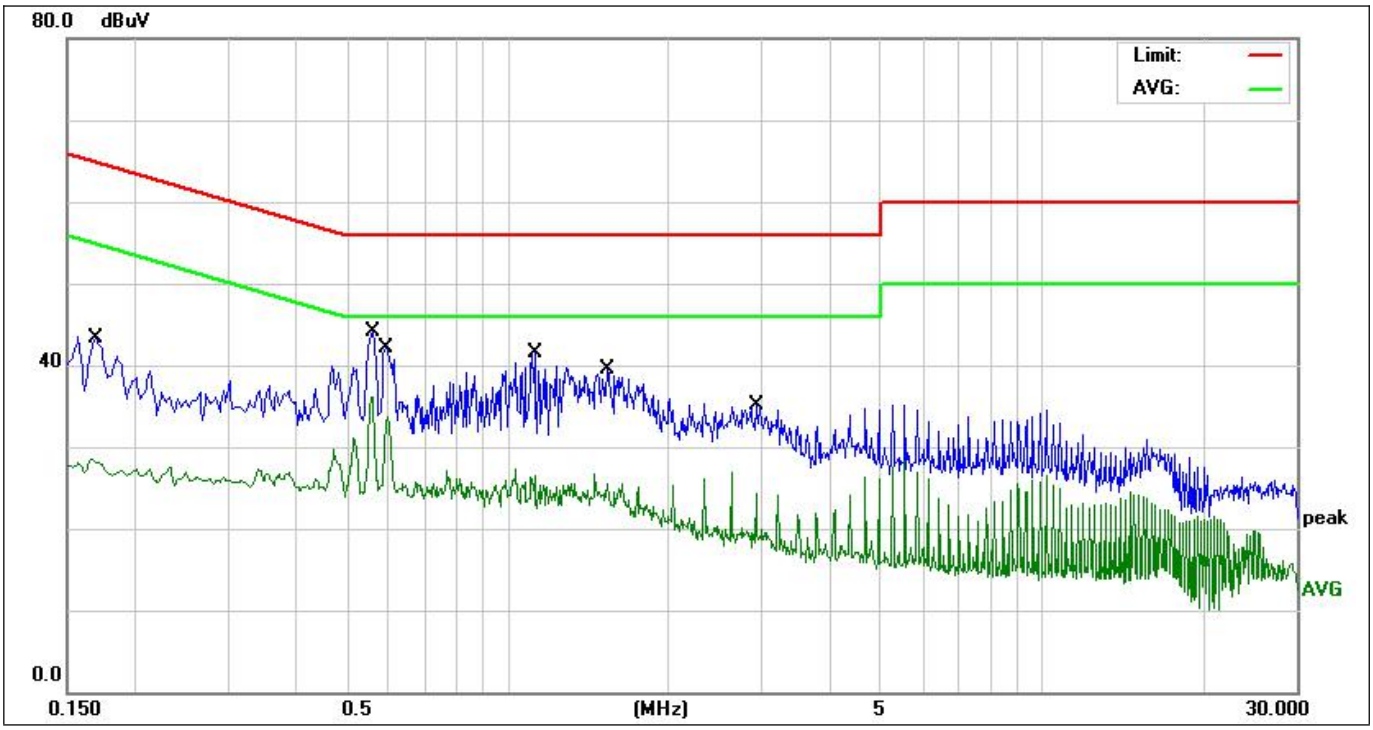
Test results were obtained from the following equation:
Emission Level (dBμV) = LISN Factor (dB) + Cable Loss (dB) + Reading (dBμV)
Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

All the scanning waveform is put in the following pages.

4.7. Measuring Results

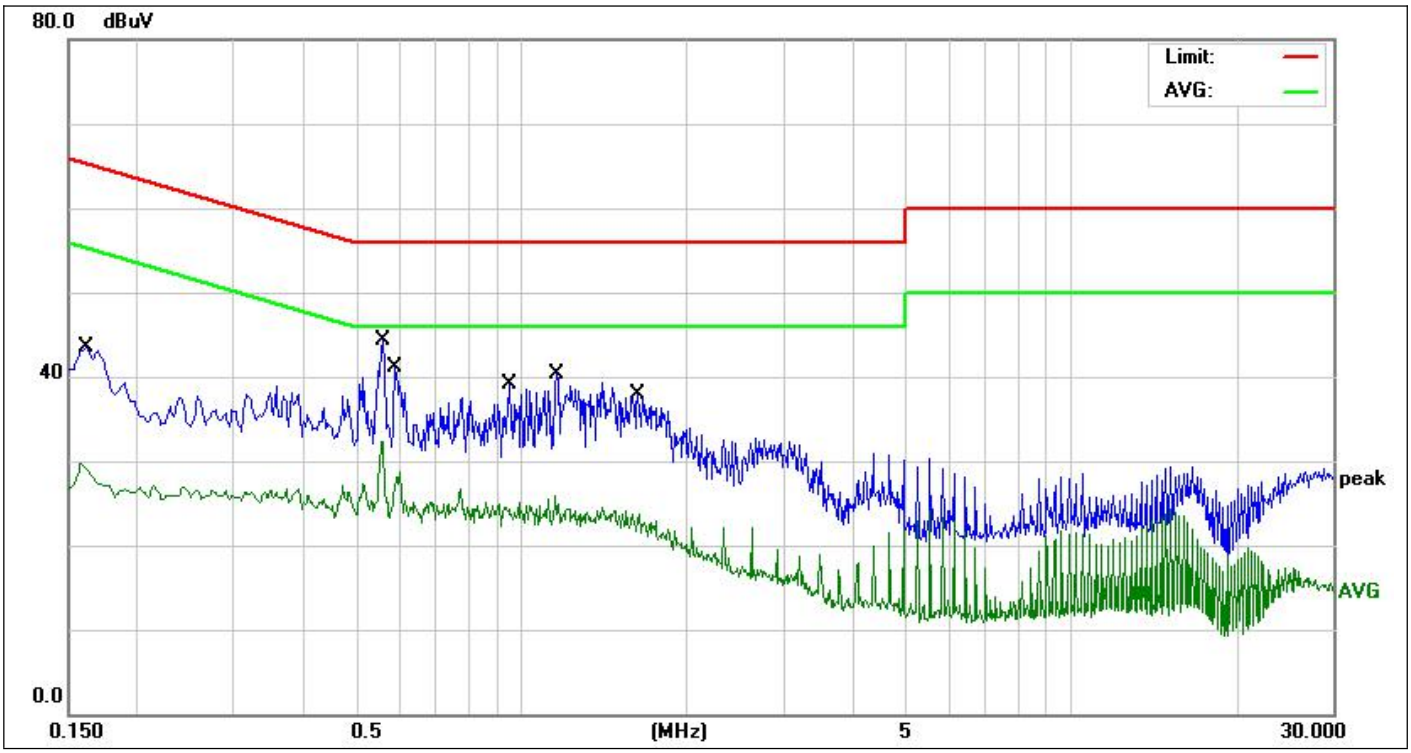
Pass.

Please refer to following pages.



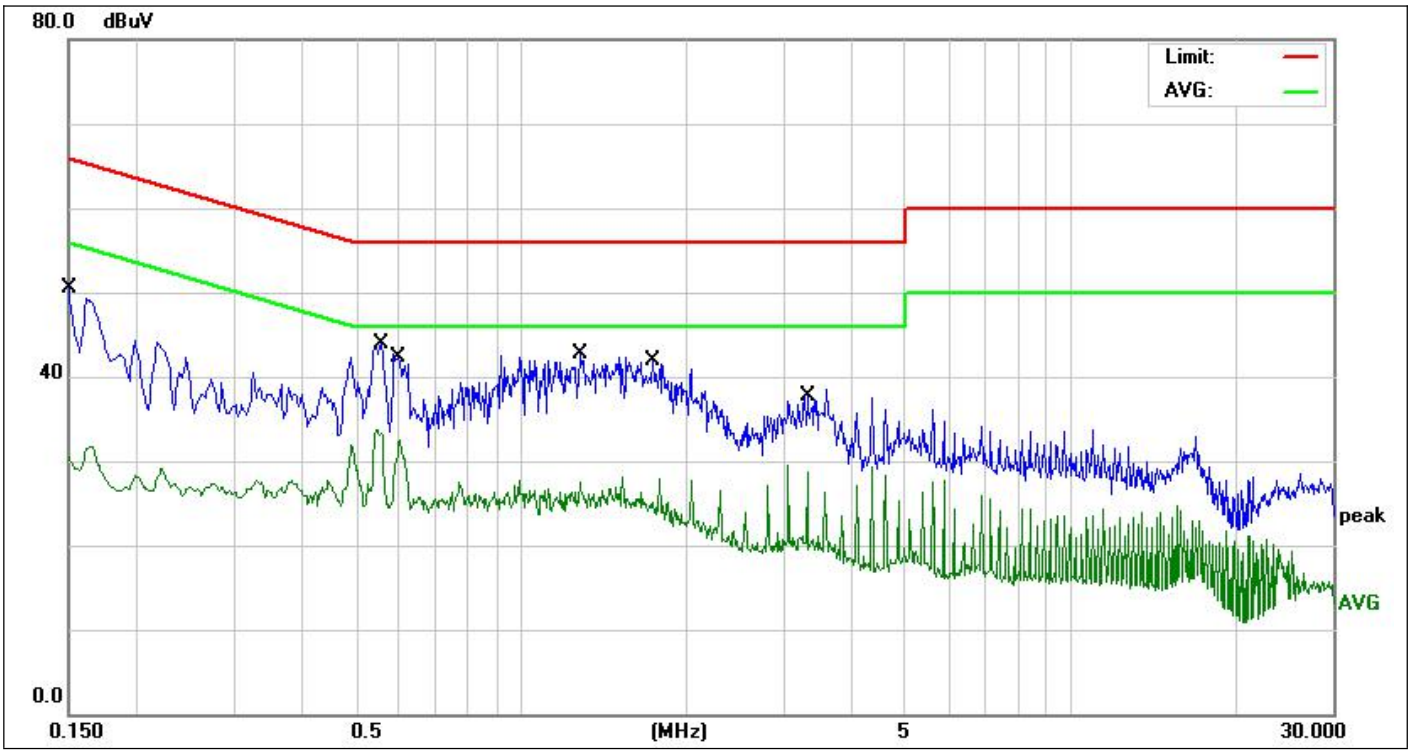
Site:	**843**	**Phase:L1**	**Temperature(C):26(C)**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/28 14:21:03**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1700	27.89	9.75	37.64	64.96	-27.32	QP	
2	0.1700	17.76	9.75	27.51	54.96	-27.45	AVG	
3	0.5620	30.55	9.80	40.35	56.00	-15.65	QP	
4 *	0.5620	23.88	9.80	33.68	46.00	-12.32	AVG	
5	0.5940	29.41	9.80	39.21	56.00	-16.79	QP	
6	0.5940	22.61	9.80	32.41	46.00	-13.59	AVG	
7	1.1260	25.09	9.81	34.90	56.00	-21.10	QP	
8	1.1260	14.71	9.81	24.52	46.00	-21.48	AVG	
9	1.5420	23.29	9.83	33.12	56.00	-22.88	QP	
10	1.5420	14.36	9.83	24.19	46.00	-21.81	AVG	
11	2.9219	22.01	9.94	31.95	56.00	-24.05	QP	
12	2.9219	15.72	9.94	25.66	46.00	-20.34	AVG	



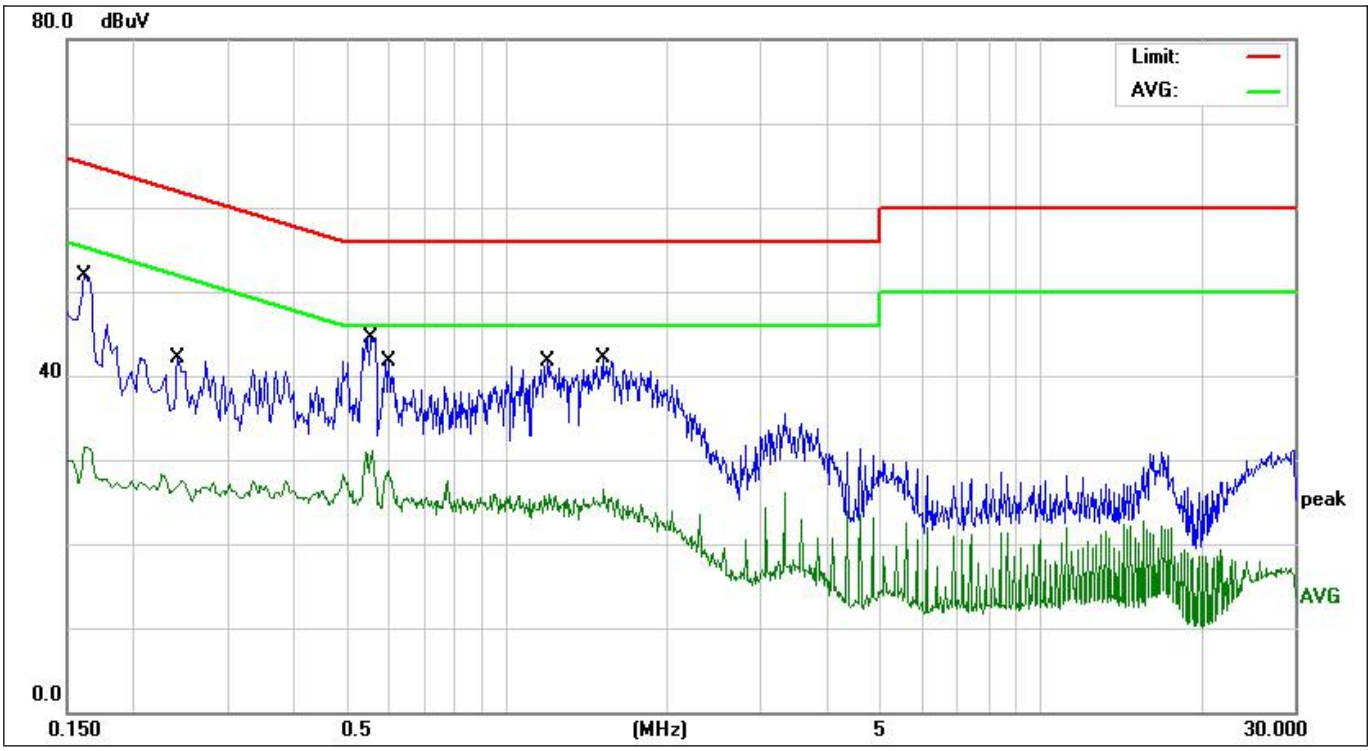
Site:	**843**	**Phase:N**	**Temperature(C):26(C)**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/28 14:18:52**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1620	28.56	9.74	38.30	65.36	-27.06	QP	
2	0.1620	17.99	9.74	27.73	55.36	-27.63	AVG	
3 *	0.5620	31.62	9.80	41.42	56.00	-14.58	QP	
4	0.5620	20.41	9.80	30.21	46.00	-15.79	AVG	
5	0.5899	26.48	9.80	36.28	56.00	-19.72	QP	
6	0.5899	17.16	9.80	26.96	46.00	-19.04	AVG	
7	0.9540	22.96	9.80	32.76	56.00	-23.24	QP	
8	0.9540	14.49	9.80	24.29	46.00	-21.71	AVG	
9	1.1620	24.37	9.81	34.18	56.00	-21.82	QP	
10	1.1620	14.27	9.81	24.08	46.00	-21.92	AVG	
11	1.6300	22.19	9.85	32.04	56.00	-23.96	QP	
12	1.6300	12.75	9.85	22.60	46.00	-23.40	AVG	



Site:	**843**	**Phase:L1**	**Temperature(C):26(C)**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/28 14:11:23**
M/N.:	**WC10WGGL-AL**	**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	0.1500	31.64	9.72	41.36	65.99	-24.63	QP	
2	0.1500	18.35	9.72	28.07	55.99	-27.92	AVG	
3	0.5580	29.82	9.79	39.61	56.00	-16.39	QP	
4	0.5580	21.90	9.79	31.69	46.00	-14.31	AVG	
5	0.6020	28.39	9.81	38.20	56.00	-17.80	QP	
6 *	0.6020	21.95	9.81	31.76	46.00	-14.24	AVG	
7	1.2860	25.44	9.81	35.25	56.00	-20.75	QP	
8	1.2860	15.32	9.81	25.13	46.00	-20.87	AVG	
9	1.7420	24.92	9.85	34.77	56.00	-21.23	QP	
10	1.7420	13.99	9.85	23.84	46.00	-22.16	AVG	
11	3.3340	20.24	9.93	30.17	56.00	-25.83	QP	
12	3.3340	9.24	9.93	19.17	46.00	-26.83	AVG	

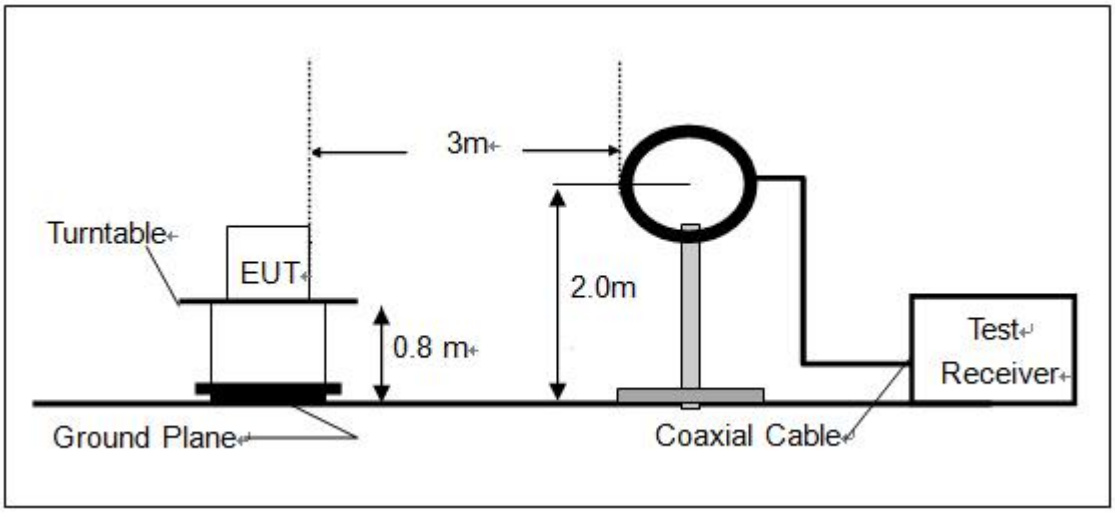


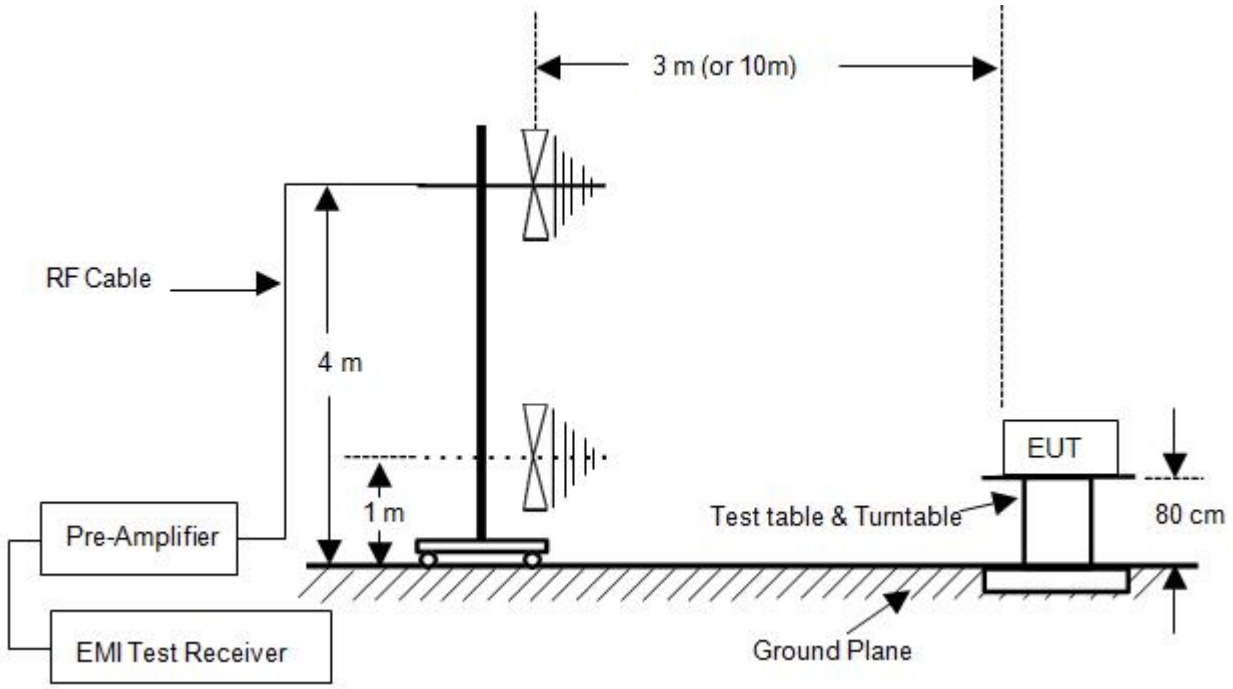
Site:	**843**	**Phase:N**	**Temperature(C):26(C)**
Limit:	**FCC Part 18 C Conduction(QP)**		**Humidity(%):60%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/28 14:08:44**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**Jack**
Note:			

No.	Frequency (MHz)	Reading Level(dBuV)	Factor (dB)	Measure-ment(dBuV)	Limit (dBuV)	Over (dB)	Detector	Comment
1	0.1620	33.97	9.74	43.71	65.36	-21.65	QP	
2	0.1620	20.00	9.74	29.74	55.36	-25.62	AVG	
3	0.2420	23.59	9.79	33.38	62.02	-28.64	QP	
4	0.2420	16.62	9.79	26.41	52.02	-25.61	AVG	
5 *	0.5580	31.07	9.79	40.86	56.00	-15.14	QP	
6	0.5580	19.80	9.79	29.59	46.00	-16.41	AVG	
7	0.6020	27.14	9.81	36.95	56.00	-19.05	QP	
8	0.6020	18.42	9.81	28.23	46.00	-17.77	AVG	
9	1.1940	24.74	9.81	34.55	56.00	-21.45	QP	
10	1.1940	14.25	9.81	24.06	46.00	-21.94	AVG	
11	1.5140	24.58	9.83	34.41	56.00	-21.59	QP	
12	1.5140	14.30	9.83	24.13	46.00	-21.87	AVG	

5. RADIATED EMISSION MEASUREMENT

5.1. Block Diagram of Test Setup





5.2. Measuring frequency range

Frequency band in which device operates (MHz)	Range of frequency measurements	
	Lowest frequency	Highest frequency
Below 1.705	Lowest frequency generated in the device, but not lower than 9 kHz.	30 MHz.
1.705 to 30	Lowest frequency generated in the device, but not lower than 9 kHz.	400 MHz.
30 to 500	Lowest frequency generated in the device or 25 MHz, whichever is lower.	Tenth harmonic or 1,000 MHz, whichever is higher.
500 to 1,000	Lowest frequency generated in the device or 100 MHz, whichever is lower.	Tenth harmonic.
Above 1,000	.....do	Tenth harmonic or highest detectable emission.

Remark：1.The operates frequency of Verizon Wireless Charging Pad is more than 1.705MHz, so the test frequency range is 9KHz to 1000MHz.

5.3. Radiated Emission Limits

■Table 1

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (uV/m)	Distance (meters)
■Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500 500 or more	25 25 x SQRT (power/500)	300 (1)300
	Any NON-ISM frequency	Below 500 500 or more	15 15 x SQRT (power/500)	300 (1)300
□Industrial heaters and RF stabilized arc welders	On or below 5,725 MHz Above 5,725 MHz	Any Any	10 (2)	1600 (2)
□Medical diathermy	Any ISM frequency Any non- ISM frequency	Any Any	25 15	300 300
□Ultrasonic	Below 490 kHz	Below 500 500 or more	2,400/F(kHz) 2,400/F(kHz)x SQRT(power/500)	300 (3)300
	490 to 1,600 kHz Above 1,600 kHz	Any Any	2,400/F(kHz) 15	30 30
□Induction cooking ranges	Below 90 kHz On or above 90 kHz	Any Any	1,500 300	(4)30 (4)30

(1) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment operating below 1000 MHz is not permitted the increase in field strength otherwise permitted here for power over 500 watts.
(2) Reduced to the greatest extent possible.
(3) Field strength may not exceed 10 μV/m at 1600 meters. Consumer equipment is not permitted the increase in field strength otherwise permitted here for over 500 watts.
(4) Induction cooking ranges manufactured prior to February 1, 1980, shall be subject to the field strength limits for miscellaneous ISM equipment.

Note : The field strength limit and distance shown in the following Table 2 are the conversion of the requirement in Table 1.

☐Table 2

Equipment	Operating frequency	RF Power generated by equipment (watts)	Field strength limit (dBuV/m)	Distance (meters)
Any type unless otherwise specified (miscellaneous)	Any ISM frequency	Below 500	57.5	10

☐The for RF lighting devices field strength limits

Frequency (MHz)	Field strength limit at 30 meters (μV/m)
Non-consumer equipment:	
30-88	30
88-216	50
216-1000	70
Consumer equipment:	
30-88	10
88-216	15
216-1000	20

Notes: The tighter limit shall apply at the boundary between two frequency ranges.

5.4. EUT Configuration on Measurement

The FCC Class B regulations test method must be used to find the maximum emission during radiated emission measurement.

EUT : Verizon Wireless Charging Pad
Model Number : WC10WGGL-AL

5.5. Operating Condition of EUT

5.5.1.Setup the EUT as shown on Section 5.1.

5.5.2.Turn on the power of all equipment.

5.5.3.Let the EUT work in measuring mode (Wireless Charging) and measure it.

5.6. Test Procedure

The EUT is placed on a turntable 0.8 meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 2 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

200Hz for measurements below 150 kHz
9 kHz for measurements from 150 kHz to 30MHz
100 kHz for measurements from 30MHz to 1000MHz

Emission Level (dBμV) = Antenna Factor (dB) + Cable Loss (dB) + Reading (dBμV)
Margin (dB) = Emission Level (dBμV) - Limit (dBμV)

The worst scanning curves are attached in following pages.

5.7. Measuring Results

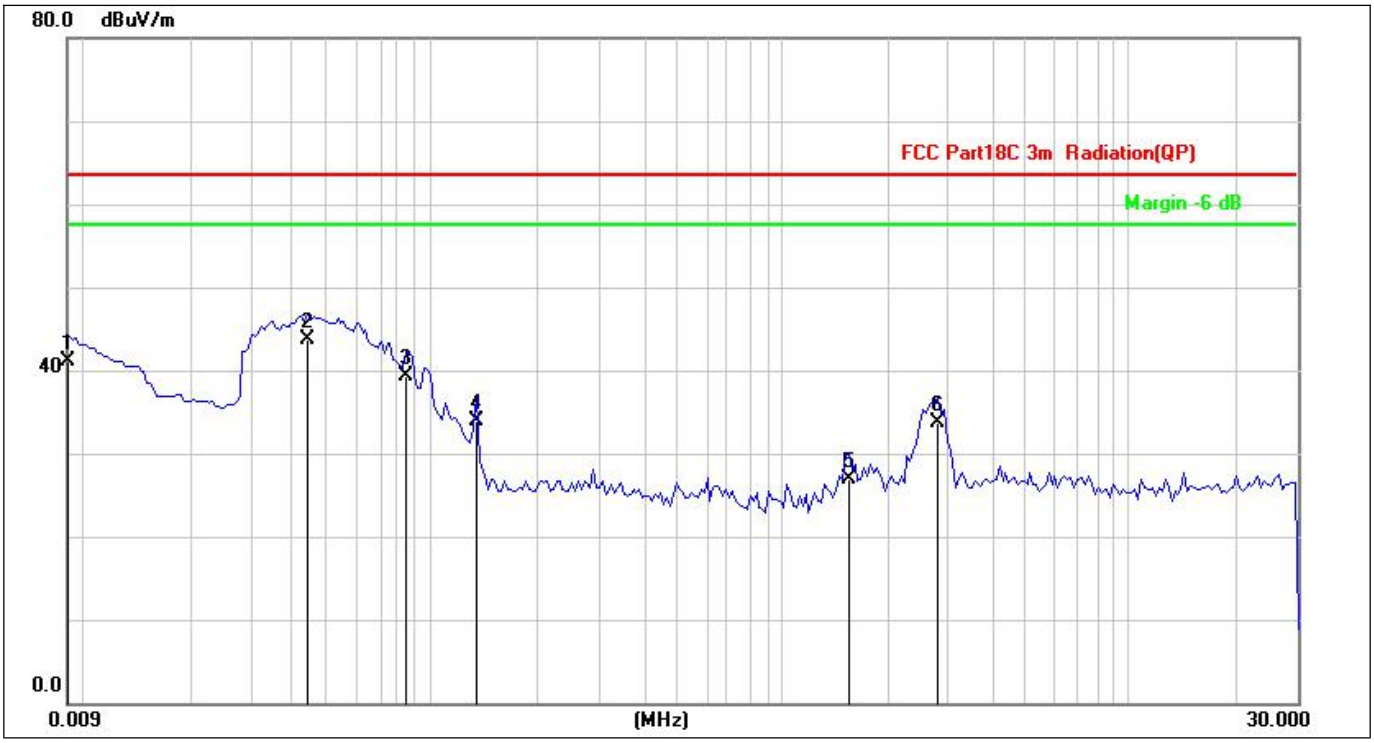
PASS.

The frequency range from 9KHz to 1000MHz is investigated.

Peak for pre-scan, Average for the final result.

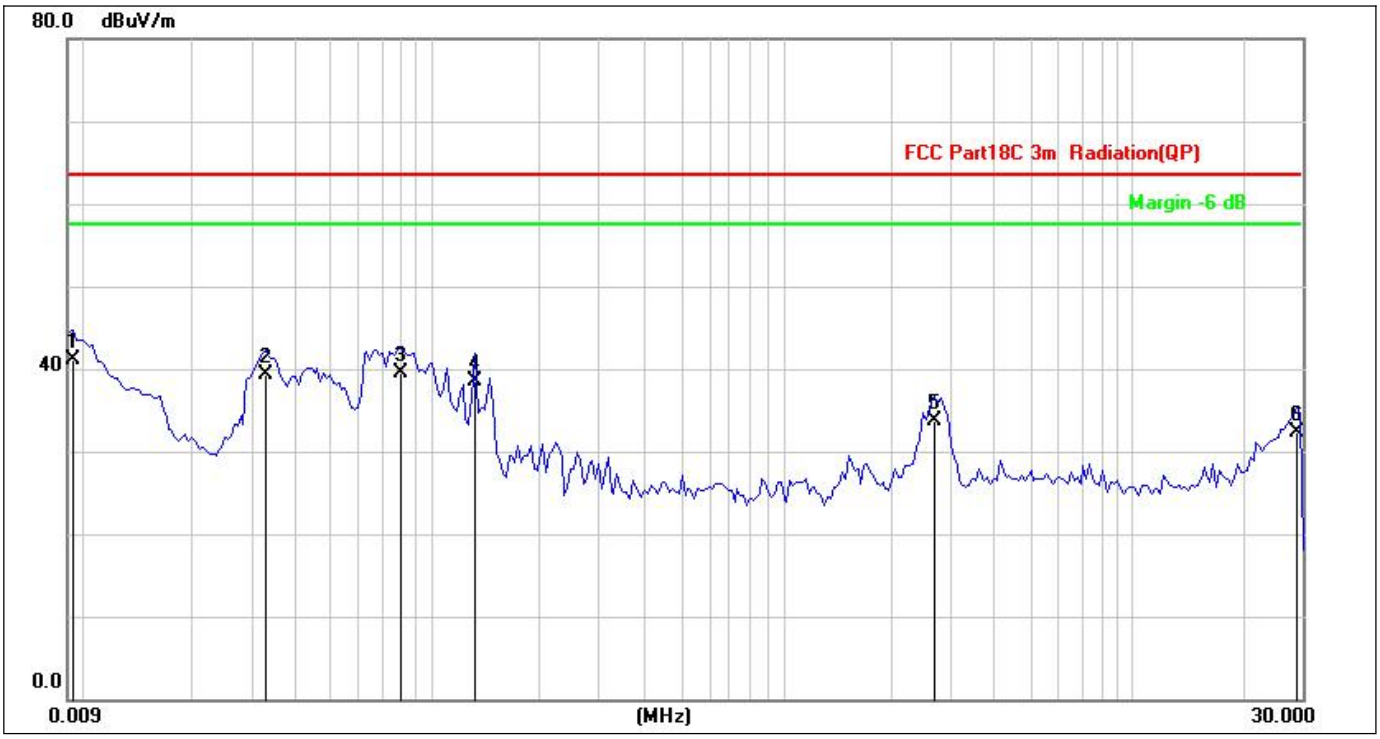
Please refer to following pages.

Test mode: Wireless Charging 5W



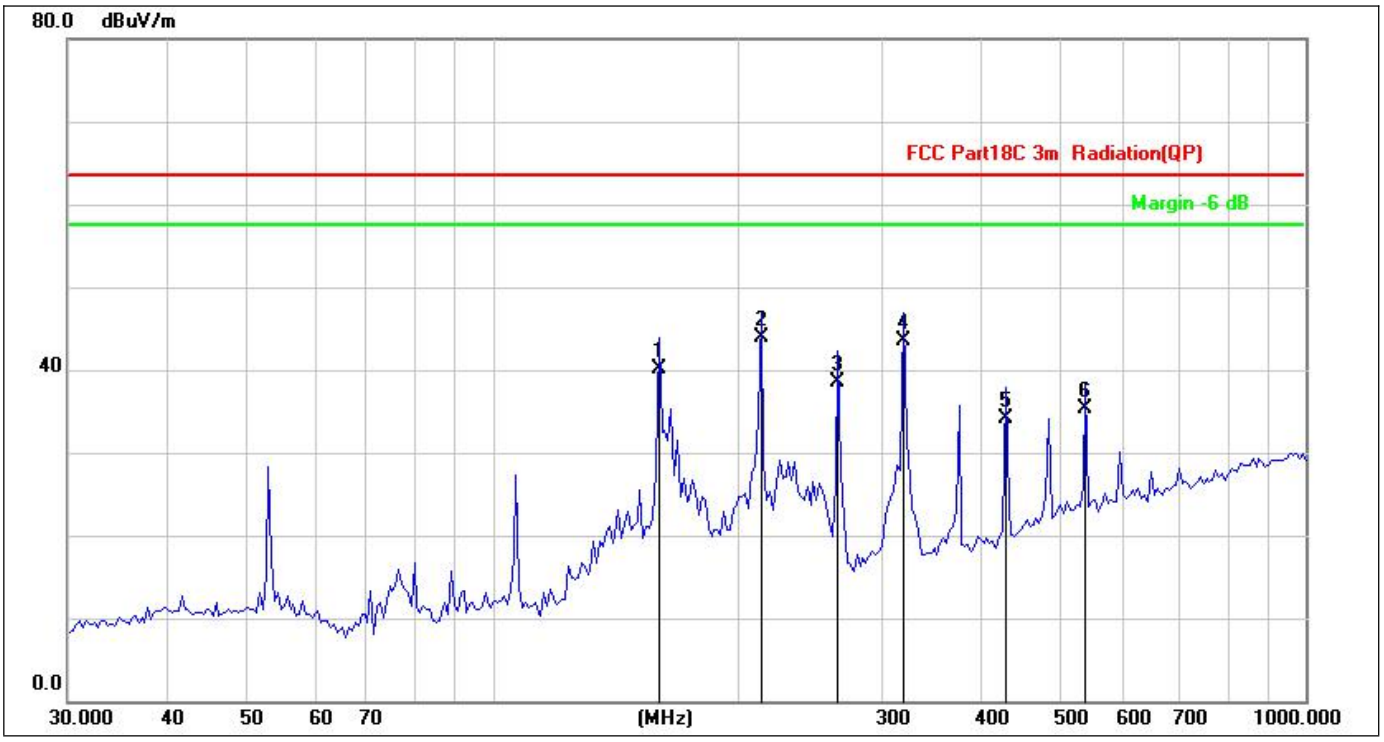
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:22:55**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test 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	0.0091	41.13	0.00	41.13	63.50	-22.37	QP			
2 *	0.0437	43.65	0.00	43.65	63.50	-19.85	QP			
3	0.0837	39.26	0.00	39.26	63.50	-24.24	QP			
4	0.1335	33.82	0.00	33.82	63.50	-29.68	QP			
5	1.5533	26.98	0.00	26.98	63.50	-36.52	QP			
6	2.7968	33.69	0.00	33.69	63.50	-29.81	QP			



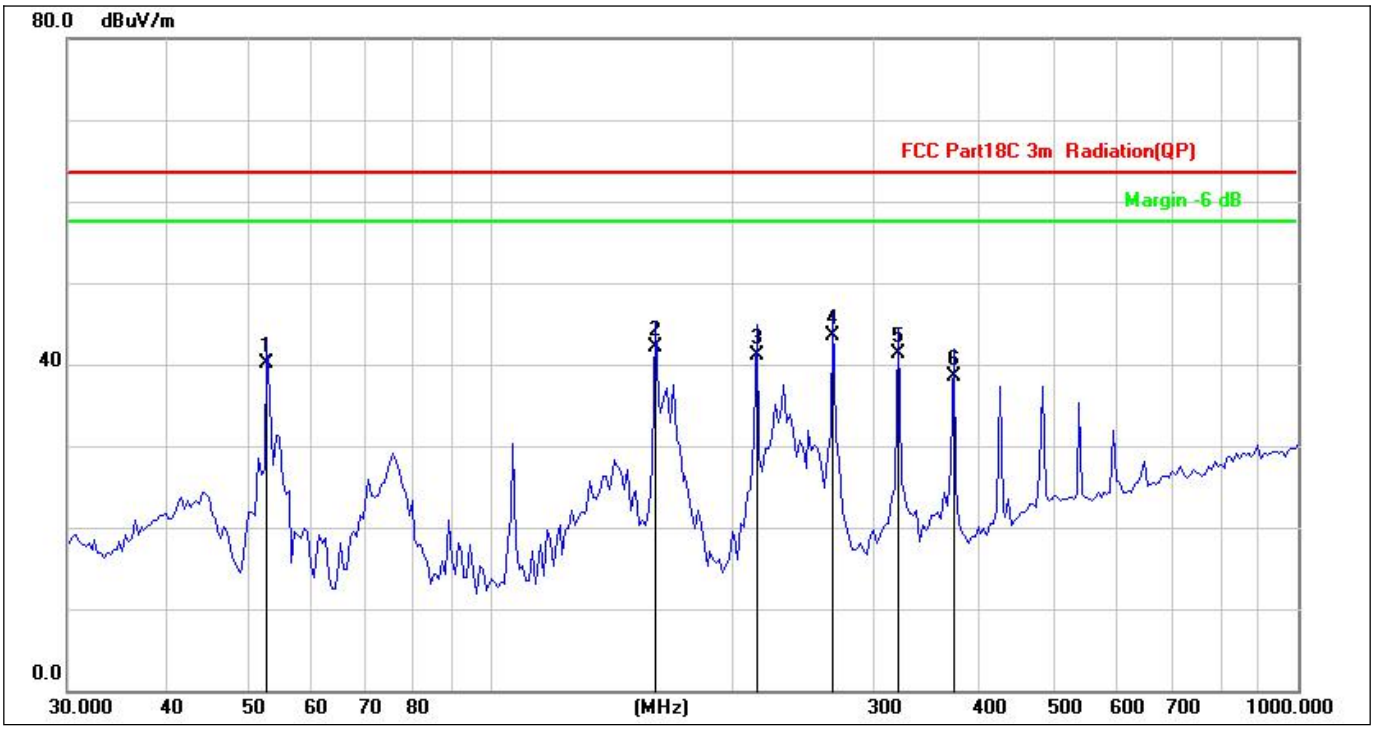
Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:22:24**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**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 *	0.0094	41.16	0.00	41.16	63.50	-22.34	QP			
2	0.0330	39.26	0.00	39.26	63.50	-24.24	QP			
3	0.0803	39.43	0.00	39.43	63.50	-24.07	QP			
4	0.1307	38.49	0.00	38.49	63.50	-25.01	QP			
5	2.6857	33.63	0.00	33.63	63.50	-29.87	QP			
6	28.8076	61.65	-29.34	32.31	63.50	-31.19	QP			



Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:19:59**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**sunshine**
Note:			

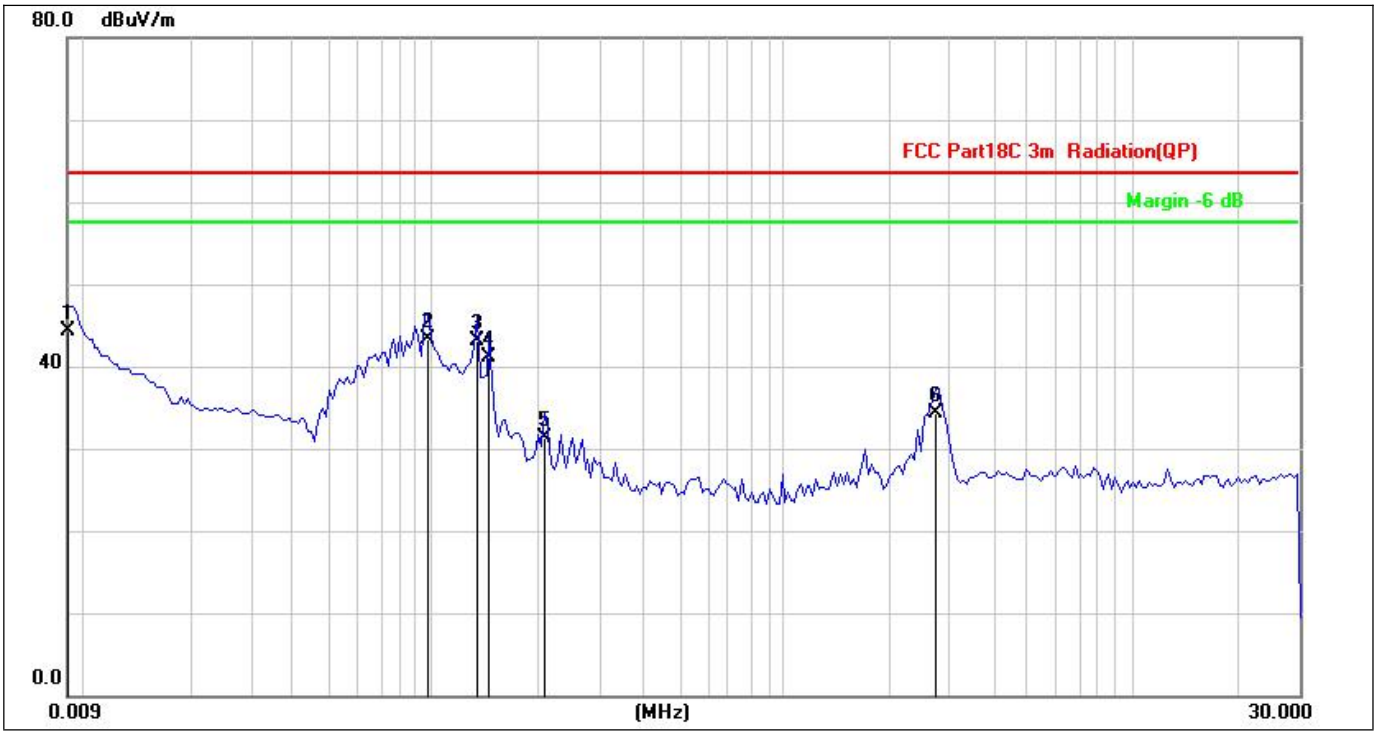
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	160.0648	58.37	-18.21	40.16	63.50	-23.34	QP			
2 *	213.7634	59.71	-15.71	44.00	63.50	-19.50	QP			
3	266.1419	51.93	-13.34	38.59	63.50	-24.91	QP			
4	319.9370	55.22	-11.67	43.55	63.50	-19.95	QP			
5	427.2695	42.43	-8.25	34.18	63.50	-29.32	QP			
6	536.6473	40.34	-4.97	35.37	63.50	-28.13	QP			



Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:21:41**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 5W**	**Test Engineer:**	**sunshine**
Note:			

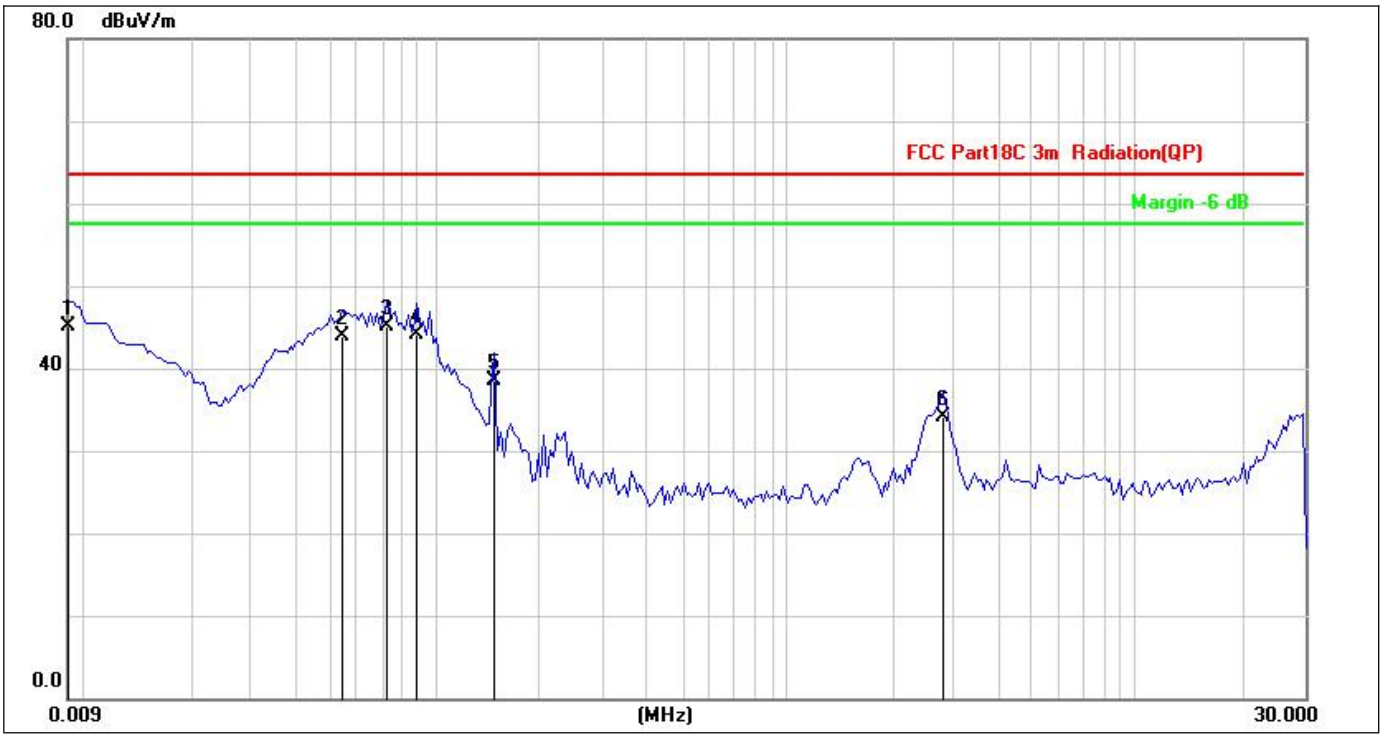
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	53.0382	56.17	-16.12	40.05	63.50	-23.45	QP			
2	160.0648	60.32	-18.21	42.11	63.50	-21.39	QP			
3	213.7634	56.89	-15.71	41.18	63.50	-22.32	QP			
4 *	266.1419	56.86	-13.34	43.52	63.50	-19.98	QP			
5	319.9370	52.94	-11.67	41.27	63.50	-22.23	QP			
6	374.6225	48.49	-10.00	38.49	63.50	-25.01	QP			

Test mode: Wireless Charging 10W



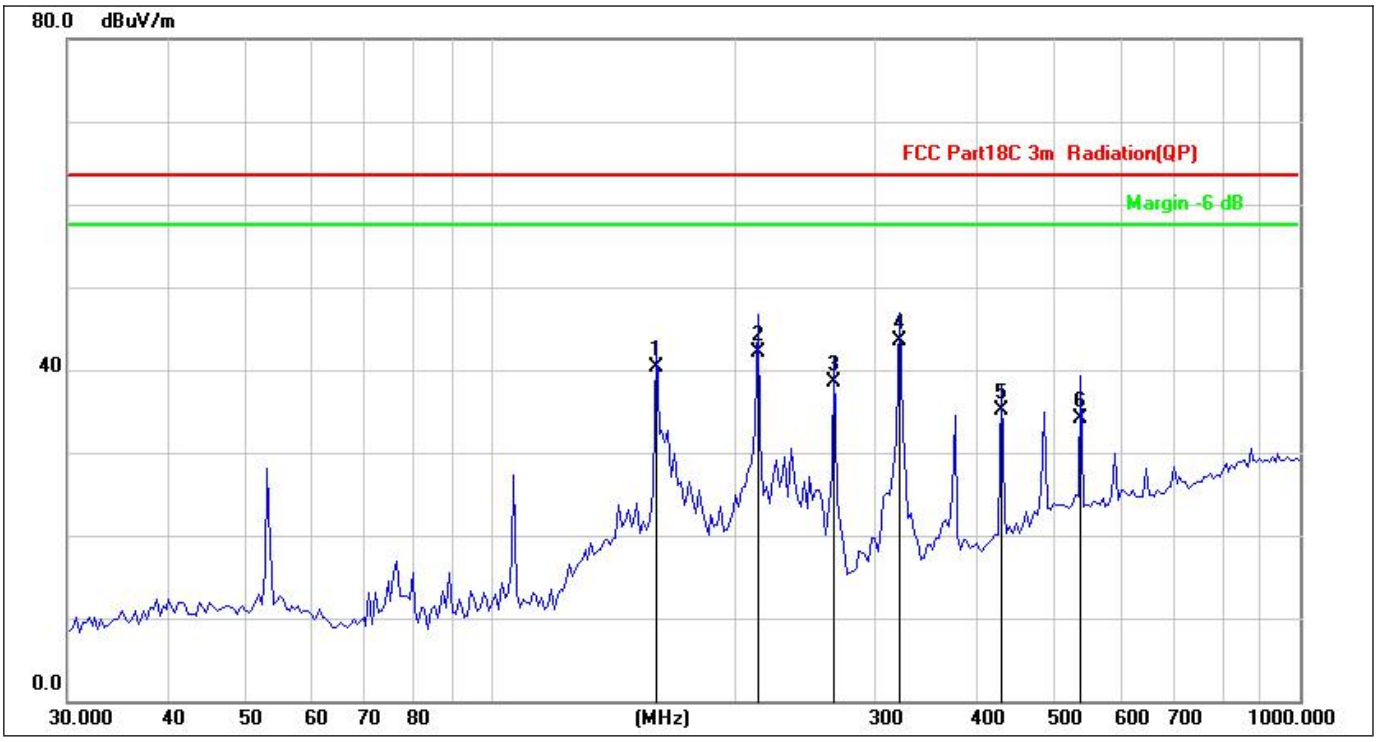
Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:24:29**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test 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 *	0.0088	44.27	0.00	44.27	63.50	-19.23	QP			
2	0.0965	43.28	0.00	43.28	63.50	-20.22	QP			
3	0.1335	43.02	0.00	43.02	63.50	-20.48	QP			
4	0.1448	41.04	0.00	41.04	63.50	-22.46	QP			
5	0.2086	31.38	0.00	31.38	63.50	-32.12	QP			
6	2.7408	34.31	0.00	34.31	63.50	-29.19	QP			



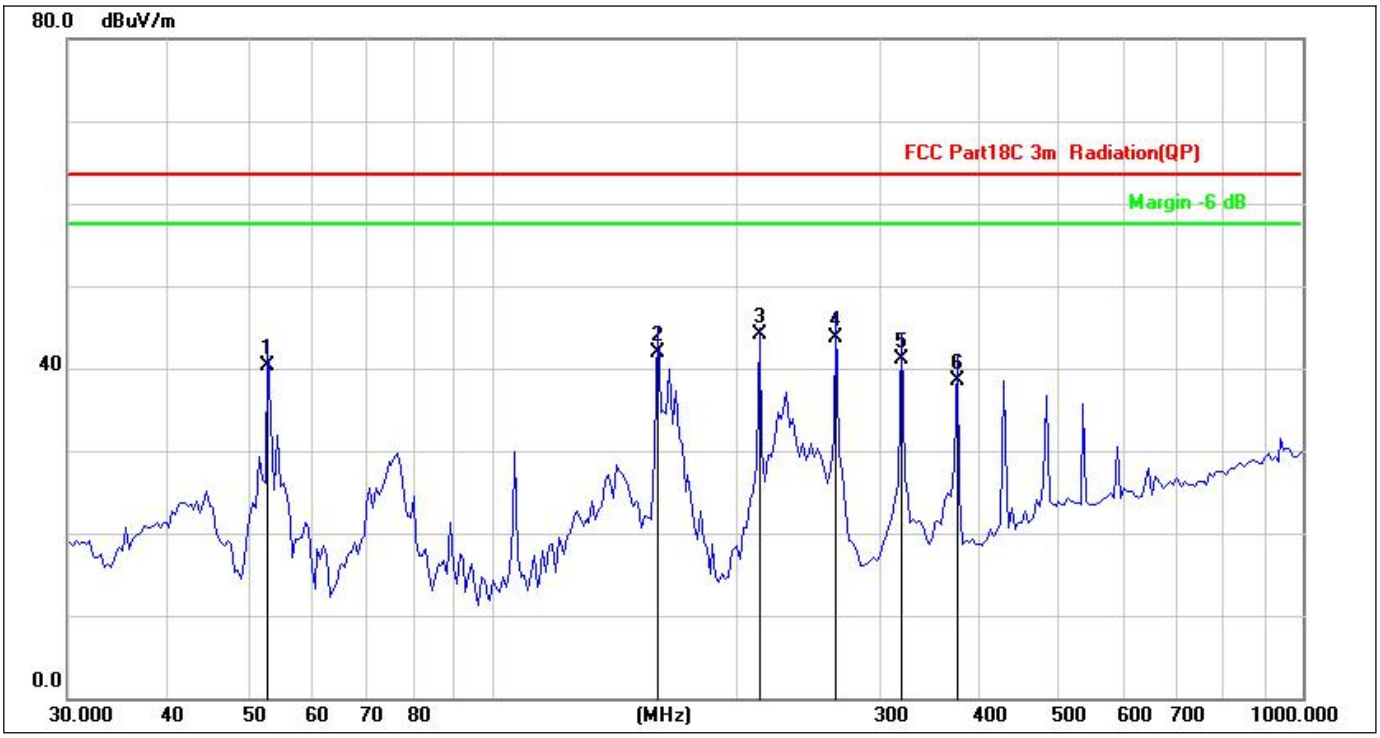
Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:24:10**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**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	0.0091	45.08	0.00	45.08	63.50	-18.42	QP			
2	0.0546	44.00	0.00	44.00	63.50	-19.50	QP			
3 *	0.0727	45.12	0.00	45.12	63.50	-18.38	QP			
4	0.0889	44.19	0.00	44.19	63.50	-19.31	QP			
5	0.1477	38.49	0.00	38.49	63.50	-25.01	QP			
6	2.7968	34.15	0.00	34.15	63.50	-29.35	QP			



Site:	**LAB**	**Antenna::Horizontal**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:11:38**
M/N.:	**WC10WGGL-AL**	**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	160.0648	58.44	-18.21	40.23	63.50	-23.27	QP			
2	213.7634	57.87	-15.71	42.16	63.50	-21.34	QP			
3	266.1419	51.80	-13.34	38.46	63.50	-25.04	QP			
4 *	319.9370	55.22	-11.67	43.55	63.50	-19.95	QP			
5	427.2695	43.41	-8.25	35.16	63.50	-28.34	QP			
6	536.6473	39.08	-4.97	34.11	63.50	-29.39	QP			



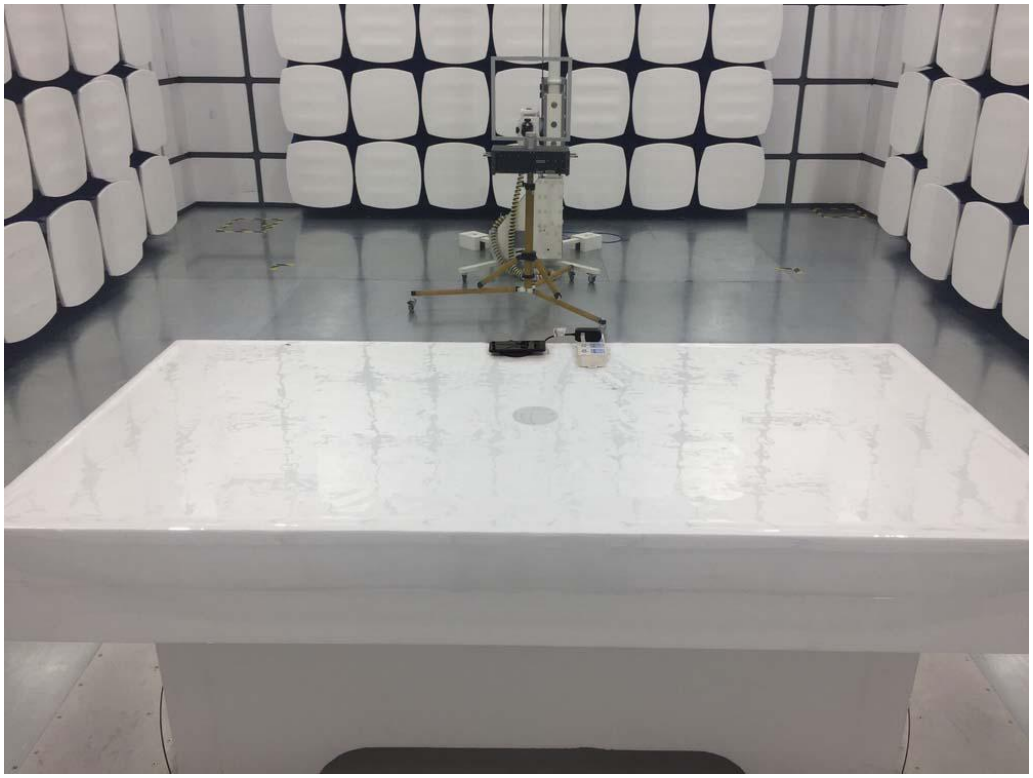
Site:	**LAB**	**Antenna::Vertical**	**Temperature(C):24.2(C)**
Limit:	**FCC Part18C 3m Radiation(QP)**		**Humidity(%):53.6%**
EUT:	**Verizon Wireless Charging Pad**	**Test Time:**	**2019/11/29 22:13:28**
M/N.:	**WC10WGGL-AL**	**Power Rating:**	**AC 120V/60Hz**
Mode:	**Wireless Charging 10W**	**Test Engineer:**	**sunshine**
Note:			

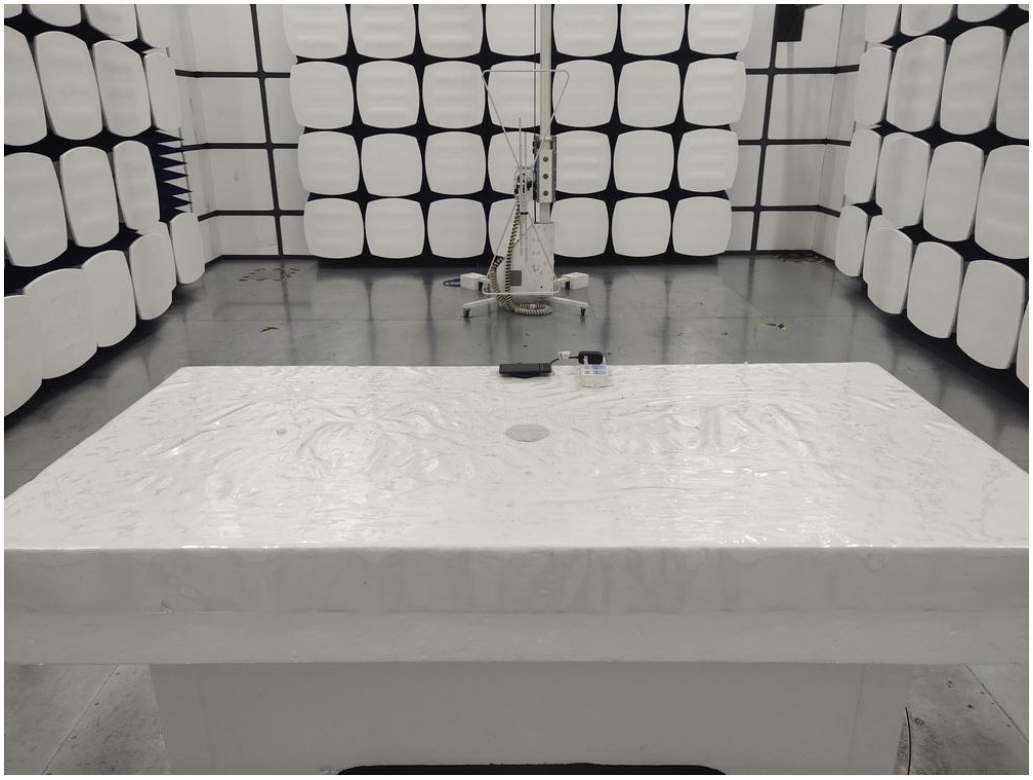
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Det.	Height (cm)	Azimuth (deg)	Remark
1	53.0382	56.46	-16.12	40.34	63.50	-23.16	QP			
2	160.0648	60.21	-18.21	42.00	63.50	-21.50	QP			
3 *	213.7634	59.87	-15.71	44.16	63.50	-19.34	QP			
4	266.1419	56.97	-13.34	43.63	63.50	-19.87	QP			
5	319.9370	52.72	-11.67	41.05	63.50	-22.45	QP			
6	374.6225	48.52	-10.00	38.52	63.50	-24.98	QP			

6. PHOTOGRAPHS

6.1.Photos of Conducted Emission Measurement

6.2.Photos of Radiation Emission Measurement





APPENDIX A: Warning Labels

Label Requirements

Products authorized under SDOC and Part 18 required to include a compliance statement similar to the following:

"This device complies with Part 18 of the FCC Rules."

The compliance information may be placed in the instruction manual, on a separate sheet, on the packaging, or electronically as permitted in Section 2.935. There is no specific format for this information. The placing of this or similar statement will also comply with the requirements of Section 2.1077(a) (2).

Devices authorized under the SDOC procedure have the option to use the FCC logo to indicate compliance with the FCC rules, and the logo may be included in the instruction materials or as part of an e-label.

The FCC logo shall only be used on a product that has been tested, evaluated, and found to be compliant in accordance with the SDOC procedures. The use of the FCC logo on the device does not mitigate the requirement to provide a means to uniquely identify the product or to provide the required compliance information statement. The FCC logo cannot be used on products that are exempt from an authorization by rule unless the SDOC procedure has been fully applied for the product.

APPENDIX B: Warning Statement

Statement Requirements

For devices approved under Part 18, information on the following shall be provided to the user in the instruction manual, or on the packaging if an instruction manual is not provided (Section 18.213): • The interference potential of the device or system.

• Maintenance of the system.

• Simple measures that can be taken by the user to correct interference.

• For RF lighting devices, provide an advisory statement, either on the product packaging or with other user documentation, similar to the following:

This product may cause interference to radio equipment and should not be installed near maritime safety communications equipment or other critical navigation or communication equipment operating between 0.45-30 MHz.

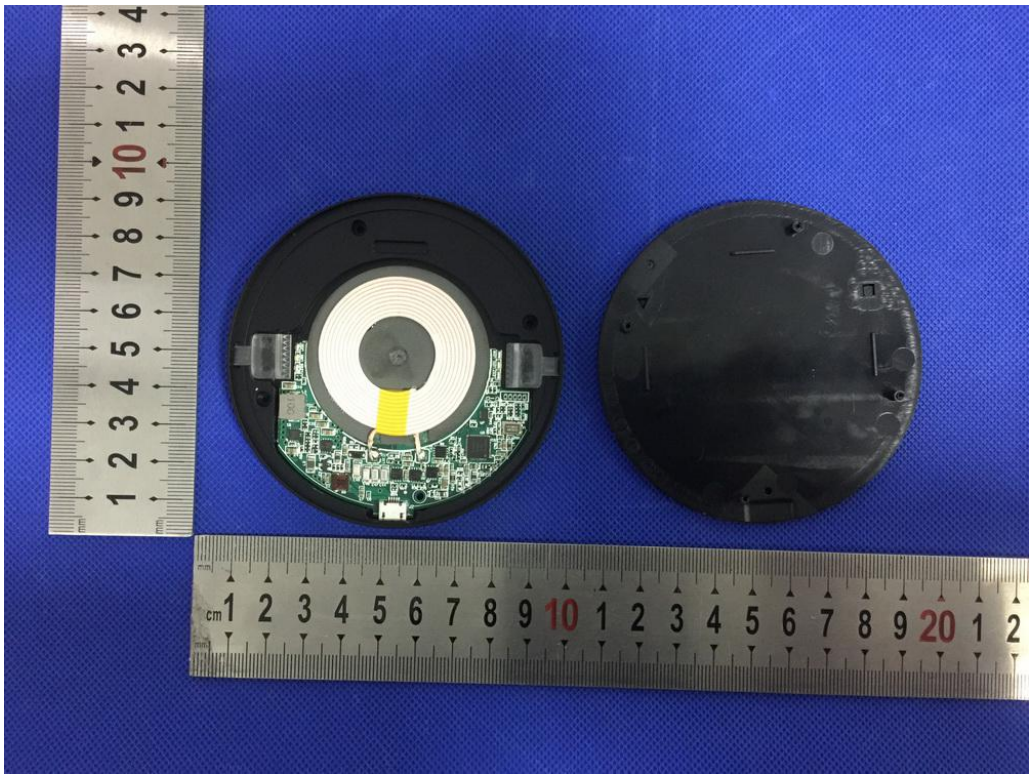
Variations of this language are permitted provided all the points of the statement are addressed, and may be presented in any legible font or text style.

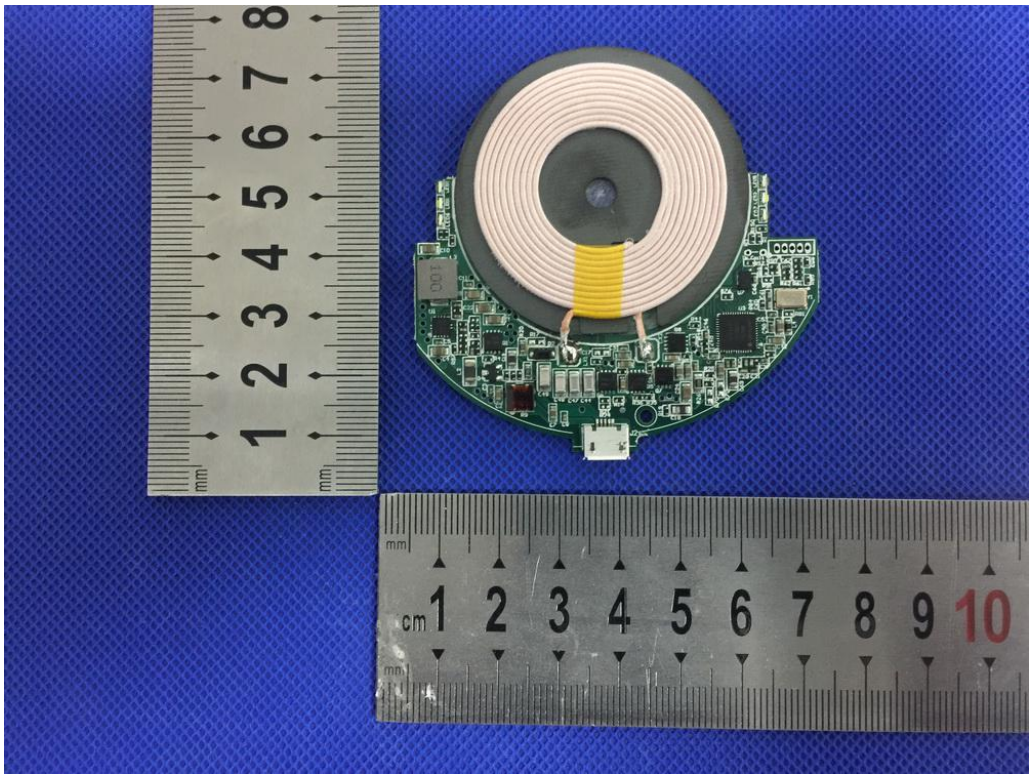
APPENDIX C: Photos of EUT

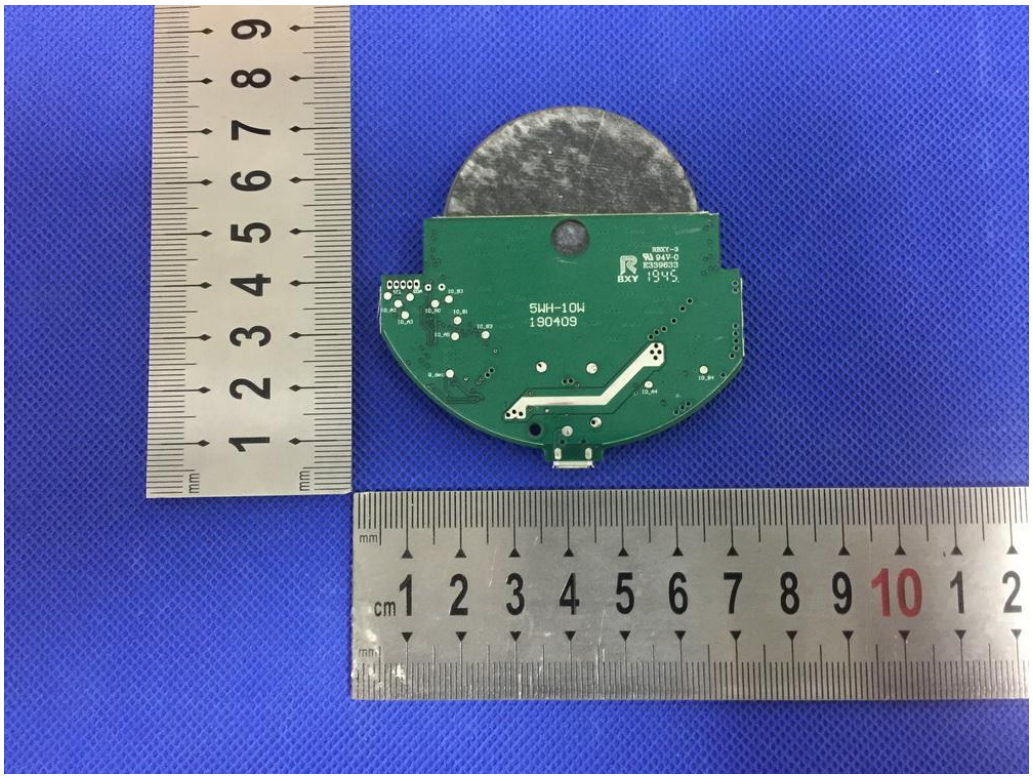
Model: 60-4625-05-XP

Model: WC10WGGL-AL


MODEL: S80245A087
INPUT: 100V-240V~ 500mA, 50/60Hz
OUTPUT: 3.6V-6V⎓3A
6.2V-9V⎓2A (QC 3.0)
9.2V-12V⎓1.5A (QC 3.0)
E503937
LISTED
Power Supply
Made in Vietnam







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