FCC PART 15C TEST REPORT FOR CERTIFICATION On Behalf of

Lucent Trans Electronics Co., Ltd

Dual Wireless Charging Pad

Model Number: WC10WDUALGGL-AL

Additional Model: WC10WDUALGGLWH-AL, 7WH

FCC ID: UQ3DUAL10W

Prepared for:	Lucent Trans Electronics Co., Ltd			
	9F-1, No. 16, Chien Pah Rd., Chung Ho Dist., New Taipei City, Taiwan			
Prepared By:	EST Technology Co., Ltd.			
	Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China			
Tel: 86-769-83081888-808				

Report Number:	ESTE-R2003001
Date of Test:	Feb. 19~Mar. 28, 2020
Date of Report:	Mar. 02, 2020



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	EST Techn	ology Co., Ltd	l.
Applicant: Address:	Lucent Trans Electronics C 9F-1, No. 16, Chien Pah Ro	and the same of th	New Taipei City,Taiwan
Manufacturer: Address:	Lucent Trans Electronics C 9F-1, No. 16, Chien Pah Ro		New Taipei City,Taiwan
E.U.T:	Dual Wireless Charging Pa	nd	
Model Number:	WC10WDUALGGL-AL		
Additional Model:	WC10WDUALGGLWH-A		
Power Supply:	DC 5V From Adapter Input DC 9V From Adapter Input DC 12V From Adapter Input DC 15V From Adapter Input	AC 100-240V, 50- at AC 100-240V, 50	60Hz 0-60Hz
Trade Name:	Verizon	Serial No.:	
Date of Receipt:	Feb. 19, 2020	Date of Test:	Feb. 19~Feb. 28, 2020
Test Specification:	FCC Part 15 Subpart C ANSI C63.10:2013		
Test Result:	Ltd. was assumed full resp measurements. Also, this re with the FCC Rules and Re	contained in this test on sibility for the acceport shows that the egulations Part 15 Set tested sample only	st report and EST Technology Co., curacy and completeness of these EUT to be technically compliance subpart C requirements. y and shall not be reproduced in
			Date: Mar. 02, 2020
Prepared by:	Reviewed by	:	Approved by:
Ring	Shawr	1	They the
Ring. Yang / Assista	Shawn.Xiao / Er	ngineer	Iceman Hu / Manager
Other Aspects: None.			Chorize
Abbreviations: OK/P=pas	ssed fail/F=failed n.a/N=	not applicable E.U	J.T=equipment under tested

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

Product Name	:	Dual Wireless Charging Pad
Model Number	:	WC10WDUALGGL-AL
Operation Frequency	:	110.5KHz-205KHz
Max Charge Power	:	20W
Max Field Strength of Fundamental	:	$82.48dB\mu V/m$
Modulation Type		MSK
Antenna Type	:	Induction coil
Sample Type	:	Prototype production

Note:

For a more detailed features description, please refer to the manufacturer's specifications or the user's manual.



2. SUMMARY OF TEST

2.1. Summary of test result

Report Section	Description of Test Item	FCC Standard Section	Results
3	Radiated Emission	15.205 15.209	PASS
4	AC Power Line Conducted Emissions	15.207	PASS
5	Antenna Requirement	15.203	PASS

Note:

1. "N/A" denotes test is not applicable in this test report



2.2. Test Facilities

EMC Lab : Certificated by CNAS, CHINA

Registration No.: L5288

Date of registration: November 13, 2017

Certificated by FCC, USA Designation Number: CN1215

Test Firm Registration Number: 722932 Date of registration: November 21, 2017

Certificated by A2LA, USA Registration No.: 4366.01

Date of registration: November 07, 2017

Certificated by Industry Canada CAB identifier No.: CN0035

Date of registration: January 04, 2019

Certificated by VCCI, Japan

Registration No.: R-13663; C-14103 Date of registration: July 25, 2017

This Certificate is valid until: July 24, 2020

Certificated by TUV Rheinland, Germany Registration No.: UA 50413872 0001 Date of registration: July 31, 2018

Certificated by TUV/PS, Shenzhen

Registration No.: SCN1017

Date of registration: January 27, 2011

Certificated by Intertek ETL SEMKO Registration No.: 2011-RTL-L2-64 Date of registration: April 28, 2011

Certificated by Nemko, Hong Kong

Registration No.: 175193

Date of registration: May 4, 2011

Name of Firm : EST Technology Co., Ltd.

Site Location : Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong,

China



2.3. Measurement uncertainty

Test Item	Uncertainty		
Uncertainty for Conduction emission test	±3.48dB		
Uncertainty for spurious emissions test	±4.60 dB(Polarize: H)		
(30MHz-1GHz)	±4.68 dB(Polarize: V)		
Uncertainty for spurious emissions test (1GHz to 18GHz)	±4.96dB		
Uncertainty for radio frequency	7×10 ⁻⁸		
Uncertainty for conducted RF Power	0.20dB		
Uncertainty for Power density test	0.26dB		

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

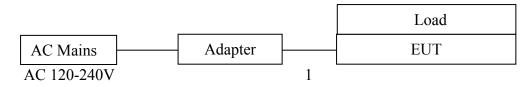
2.4. Assistant equipment used for test

Item	Equipment	Brand	Model Name/Type No.	FCC ID	Series No.
1	Load(10W)	N/A	ESTRFWXCFZ101	N/A	N/A
2	Load(10W)	N/A	ESTRFWXCFZ100	N/A	N/A
3	Adapter	N/A	580245A083	N/A	N/A

Item	Shielded Type	Ferrite Core	Length	Note
1	NO	NO	1.6m	DC Cable

2.5. Block Diagram

For radiated emissions test: EUT was placed on a turn table, which is 0.8 meter high above ground.



(EUT: Dual Wireless Charging Pad)

2.6. Test Mode

The test mode was selected for the final test as listed below.

Test Item	Test Mode	
	Wireless Charging with Empty Load	
Radiated Emission	Wireless Charging with Half Load	
	Wireless Charging with Full Load	
A.C. Davyan Lina Candyatad	Wireless Charging with Empty Load	
AC Power Line Conducted Emissions	Wireless Charging with Half Load	
Emissions	Wireless Charging with Full Load	

Note:

1. The Full Load is worst case, will be recorded in the report.

2.7. Test Equipment List

For AC Power Line Conducted Emissions Test						
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.
EMI Test Receiver	Rohde & Schwarz	ESHS30	EST-E001	LISAI	June 14,19	1 Year
Artificial Mains Network	Rohde & Schwarz	ENV216	EST-E002	LISAI	June 14,19	1 Year
Pulse Limiter	Rohde & Schwarz	ESH3-Z2	EST-E078	LISAI	June 14,19	1 Year
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A

For Radiated Emission Test(9kHz-30MHz)							
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.	
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year	
Active Loop Antenna	SCHWAREB ECK	FMZB 1519B	EST-E054	LISAI	June 14,19	1 Year	
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A	
9kHz-30MHz Cable	N/A	EST-001	N/A	N/A	N/A	N/A	

For Radiated Emission Test (30MHz-1000MHz)										
Equipment	Manufacturer	Model No.	Serial No.	Calibration Body	Last Cal.	Next Cal.				
EMI Test Receiver	Rohde & Schwarz	ESR7	EST-E047	LISAI	June 14,19	1 Year				
Bilog Antenna	Teseq	CBL 6111D	EST-E034	LISAI	June 14,19	1 Year				
Test Software	Audix	e3-6.111221a	N/A	N/A	N/A	N/A				
30-1000MHz Cable	N/A	EST-002	N/A	N/A	N/A	N/A				

3. RADIATED EMISSION

3.1. Limit

15.209 Radiated emission limits

Frequency (MHz)	Field Strength(μV/m)	Distance(m)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30	30	30
30-88	100	3
88-216	150	3
216-960	200	3
Above 960	500	3

Note:

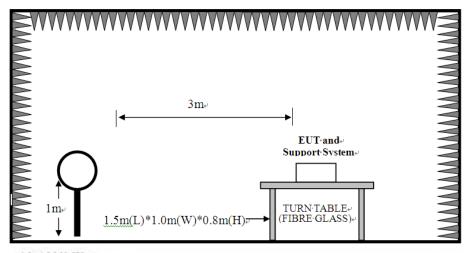
- 1. Emission level $dB\mu V = 20 \log Emission level \mu V/m$.
- 2. The smaller limit shall apply at the cross point between two frequency bands.
- 3. Distance is the distance in meters between the measuring instrument, antenna and the closest point of any part of the device or system

15.205 Restricted frequency band

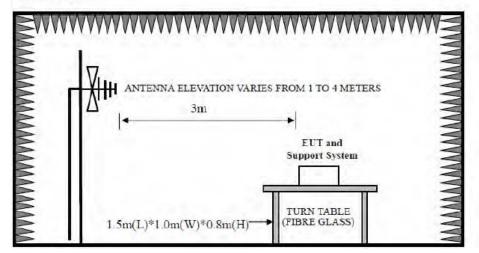
MHz	MHz	MHz	GHz
0.090 - 0.110	16.42 - 16.423	399.9 - 410	4.5 - 5.15
¹ 0.495 - 0.505	16.69475 - 16.69525	608 - 614	5.35 - 5.46
2.1735 - 2.1905	16.80425 - 16.80475	960 - 1240	7.25 - 7.75
4.125 - 4.128	25.5 - 25.67	1300 - 1427	8.025 - 8.5
4.17725 - 4.17775	37.5 - 38.25	1435 - 1626.5	9.0 - 9.2
4.20725 -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

3.2. Test Setup

 $9kHz\sim30MHz$



30~1000MHz



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3.3. Spectrum Analyzer Setting

For 9KHz-150KHz

Spectrum Parameters	Setting				
RBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)				
VBW	300Hz(for Peak&AVG)/CISPR 200Hz(for QP)				
Start frequency	9KHz				
Stop frequency	150KHz				
Sweep Time	Auto				
Detector	PEAK/QP/AVG				
Trace Mode	Max Hold				

For 150KHz-30MHz

Spectrum Parameters	Setting			
RBW	9KHz			
VBW	9KHz			
Start frequency	150KHz			
Stop frequency	30MHz			
Sweep Time	Auto			
Detector	QP			
Trace Mode	Max Hold			

For 30MHz-1000MHz

Spectrum Parameters	Setting
RBW	120KHz
VBW	300KHz
Start frequency	30MHz
Stop frequency	1000MHz
Sweep Time	Auto
Detector	QP
Trace Mode	Max Hold

3.4. Test Procedure

- a. EUT was placed on a turn table, which is 0.8 meter high above ground.
- b. EUT is set 3 meters away from the receiving antenna, which is mounted on a antenna tower.
- c. Set the EUT transmit continuously with maximum output power.
- d. Spectrum analyzer setting parameters in accordance with section 3.3.
- e. The turn table can rotate 360 degrees to determine the position of the maximum emission level.
- f. For below 30MHz test, the center of the Loop Test Antenna is 1m above the ground. During the measurement the Loop Test Antenna rotates both horizontal and vertical polarization to find out the maximum emission level.
- g. For above 30MHz test, the antenna can be moved up and down between 1 meter and 4 meters to find out the maximum emission level. Both horizontal and vertical polarization of the antenna are set on test.
- h. Record the results in the test report.

Note:

- 1. For emissions below 30MHz, if peak level comply with average limit, then the average level is deemed to comply with average limit.
- 2. For emissions below 30MHz, if peak level comply with QP limit, then the QP level is deemed to comply with QP limit.
- 3. The frequency 135kHz/145 kHz are fundamental frequency For 20W.



3.5. Test Result

Radiated Emission Below 30MHz

EST Technology

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878

Data: 1 File: \\Emc-966-1\test data\2020\RF\K\KUNYANG.EM6 (6) Date: 2020-02-27 Level (dBuV/m) 130 100 80 60 40 20 0.009 0.03 0.05 0.07 0.09 0.11 0.13 .15 Frequency (MHz)

Site no. : site Data no. : 1

Dis. / Ant. : 3m FMZB 1519B Ant. pol. : HORIZONTAL

Limit : FCC 9K-30MHZ

Env. / Ins. : Temp:20.5'; Humi:59%; Press:101.52kPa

Engineer : SEVEN

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

 Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
0.04	20.42	0.10	11.68	32.20	126.55	94.35	Peak
0.07	20.29	0.10	20.90	41.29	124.40	83.11	Peak
0.10	20.24	0.10	18.74	39.08	121.99	82.91	Peak
0.14	20.25	0.10	62.13	82.48	119.41	36.93	Peak
0.14	20.25	0.10	22.00	42.35	119.26	76.91	Peak
0.14	20.26	0.10	40.34	60.70	118.71	58.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

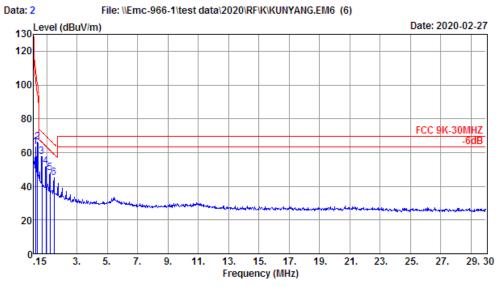
2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.



EST Technology Co., Ltd Report No.ESTE-R2003001

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Site no. : 1# 966 Chamber Data no. : 2

Dis. / Ant. : 3m FMZB 1519B Ant. pol. : HORIZONTAL

Limit : FCC 9K-30MHZ

Env. / Ins. : Temp:20.5'; Humi:59%; Press:101.52kPa

Engineer : SEVEN

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60Hzz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
 0.27	20.08	0.10	43.08	63.26	109.72	46.46	Peak
0.39	20.08	0.10	46.15	66.33	101.10	34.77	Peak
0.69	20.06	0.10	37.36	57.52	72.04	14.52	Peak
0.96	20.00	0.10	31.77	51.87	69.65	17.78	Peak
1.22	20.02	0.10	27.81	47.93	67.25	19.32	Peak
1.49	20.00	0.10	24.94	45.04	64.86	19.82	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

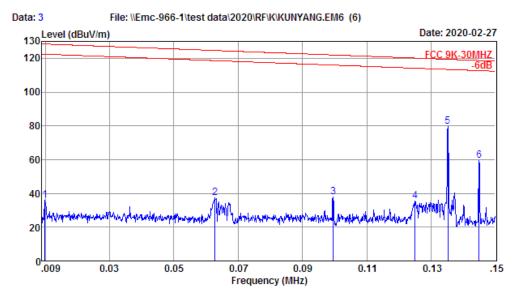
- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : site Data no. : 3

Dis. / Ant. : 3m FMZB 1519B Ant. pol. : VERTICAL

Limit : FCC 9K-30MHZ

Env. / Ins. : Temp:20.5'; Humi:59%; Press:101.52kPa

Engineer : SEVEN

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60HzHz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

 Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
0.01	20.65	0.10	15.38	36.13	128.45	92.32	Peak
0.06	20.29	0.10	17.06	37.45	124.63	87.18	Peak
0.10	20.24	0.10	17.74	38.08	121.99	83.91	Peak
0.13	20.25	0.10	15.16	35.51	120.14	84.63	Peak
0.14	20.25	0.10	59.13	79.48	119.41	39.93	Peak
0.14	20.26	0.10	39.34	59.70	118.71	59.01	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

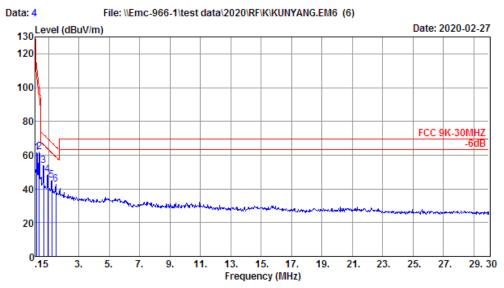
2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.

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Site no. : 1# 966 Chamber Data no. : 4
Dis. / Ant. : 3m FMZB 1519B Ant. pol. : VERTICAL

Limit : FCC 9K-30MHZ

Env. / Ins. : Temp:20.5'; Humi:59%; Press:101.52kPa

Engineer : SEVEN

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
 0.24	20.09	0.10	41.41	61.60	111.88	50.28	Peak
0.39	20.08	0.10	41.61	61.79	101.10	39.31	Peak
0.69	20.06	0.10	33.62	53.78	72.04	18.26	Peak
0.96	20.00	0.10	28.39	48.49	69.65	21.16	Peak
1.22	20.02	0.10	25.19	45.31	67.25	21.94	Peak
1.49	20.00	0.10	22.54	42.64	64.86	22.22	Peak

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.



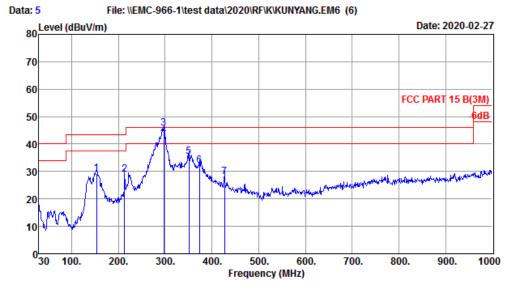
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Radiated Emission Above 30MHz

EST Technology

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878



Site no. : 1# 966 Chamber Data no. : 5

Dis. / Ant. : 3m 37062 Ant. pol. : HORIZONTAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:21.6';Humi:51.5%;Press:101.52kPa

Engineer : seven

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

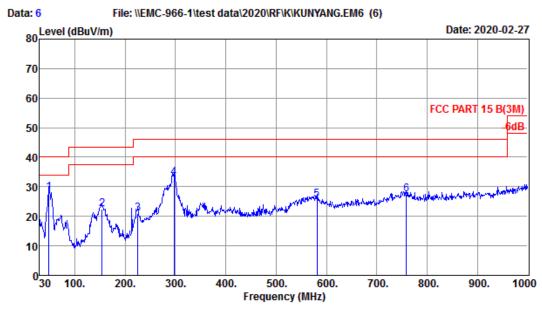
	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	153.19	11.42	1.10	16.77	29.29	43.50	14.21	QP
2	213.33	9.12	1.38	18.54	29.04	43.50	14.46	QP
3	296.75	13.62	1.82	30.39	45.83	46.00	0.17	Peak
4	296.75	13.62	1.82	27.60	43.04	46.00	2.96	QP
5	351.07	15.38	2.12	17.96	35.46	46.00	10.54	QP
6	373.38	15.52	2.18	14.50	32.20	46.00	13.80	QP
7	426.73	16.84	2.30	8.90	28.04	46.00	17.96	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

- 2. Margin= Limit Emission Level.
- 3. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 1# 966 Chamber Data no. : 6
Dis. / Ant. : 3m 37062 Ant. pol. : VERTICAL

Limit : FCC PART 15 B(3M)

Env. / Ins. : Temp:21.6'; Humi:51.5%; Press:101.52kPa

Engineer : seven

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC 120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

	Freq.	ANT Factor (dB/m)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	48.43	9.50	0.28	18.29	28.07	40.00	11.93	QP
2	154.16	11.36	1.11	9.96	22.43	43.50	21.07	QP
3	224.97	10.30	1.47	9.24	21.01	46.00	24.99	QP
4	296.75	13.62	1.82	17.51	32.95	46.00	13.05	QP
5	580.96	20.03	2.92	2.61	25.56	46.00	20.44	QP
6	758.47	22.29	3.61	1.67	27.57	46.00	18.43	QP

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.

2. Margin= Limit - Emission Level.

3. The emission levels that are 20dB below the official limit are not reported.



4. AC POWER LINE CONDUCTED EMISSIONS

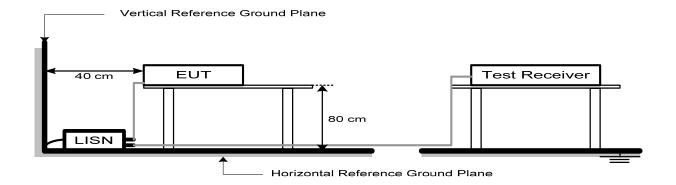
4.1. Limit

	Maximum RF Line Voltage				
Frequency	Quasi-Peak Level	Average Level			
	dB(µV)	$dB(\mu V)$			
150kHz ~ 500kHz	66 ~ 56*	56 ~ 46*			
500kHz ~ 5MHz	56	46			
5MHz ~ 30MHz	60	50			

Note:

- 1. * Decreasing linearly with logarithm of frequency.
- 2. The lower limit shall apply at the transition frequencies.

4.2. Test Setup



4.3. Spectrum Analyzer Setting

Spectrum Parameters	Setting		
RBW	9KHz		
VBW	9KHz		
Start frequency	150KHz		
Stop frequency	30MHz		
Sweep Time	Auto		
Detector	QP/AVG		
Trace Mode	Max Hold		

4.4. Test Procedure

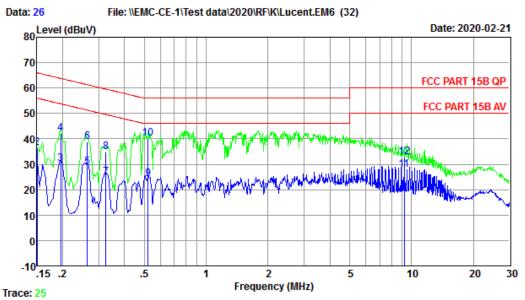
- a. The EUT was placed on a non-metallic table, 80cm above the ground plane.
- b. The EUT Power connected to the power mains through a line impedance stabilization network.
- c. Provides a 50 ohm coupling impedance for the EUT (Please refer the block diagram of the test setup and photographs).
- d. Set the EUT transmit continuously with maximum output power.
- e. Spectrum analyzer setting parameters in accordance with section 4.3.
- f. The AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.10: 2013 on Conducted Emission Test.
- g. Record the results in the test report.



4.5. Test Result

EST Technology

Chilingxiang, Qishantou, Santun, Houjie, Dongguan, Guangdong, China Tel:+86-769-83081888 Fax:+86-769-83081878



Site no : 1# Conduction Shield Room Data no. : 26 Env. / Ins. : Temp:23.7°C Humi:53% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : SHO

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC240V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.15	9.68	0.04	20.68	30.40	56.00	25.60	Average
2	0.15	9.68	0.04	26.67	36.39	66.00	29.61	QP
3	0.20	9.69	0.04	20.33	30.06	53.80	23.74	Average
4	0.20	9.69	0.04	32.33	42.06	63.80	21.74	QP
5	0.26	9.72	0.04	19.12	28.88	51.29	22.41	Average
6	0.26	9.72	0.04	29.11	38.87	61.29	22.42	QP
7	0.33	9.74	0.05	15.11	24.90	49.57	24.67	Average
8	0.33	9.74	0.05	25.11	34.90	59.57	24.67	QP
9	0.52	9.79	0.05	14.43	24.27	46.00	21.73	Average
10	0.52	9.79	0.05	30.42	40.26	56.00	15.74	QP
11	9.20	9.82	0.08	17.95	27.85	50.00	22.15	Average
12	9.20	9.82	0.08	22.94	32.84	60.00	27.16	QP

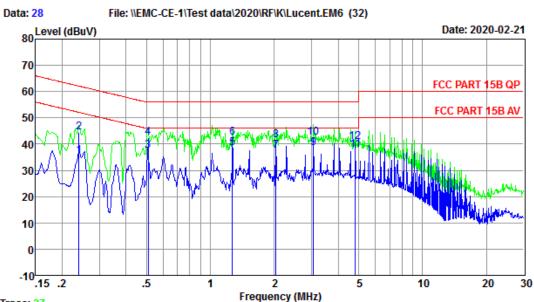
Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Report No. ESTE-R2003001



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Trace: 27

Site no : 1# Conduction Shield Room Data no. : 28

Env. / Ins. : Temp:23.7°C Humi:53% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : SHO

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC240V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

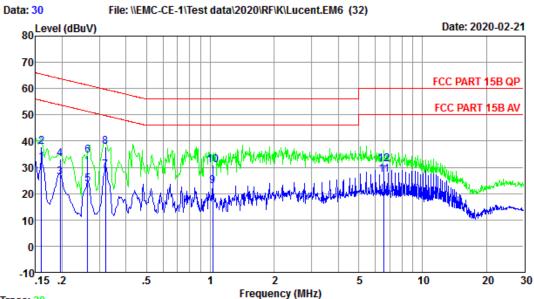
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.24	9.65	0.04	25.93	35.62	52.08	16.46	Average
2	0.24	9.65	0.04	34.93	44.62	62.08	17.46	QP
3	0.51	9.70	0.05	27.70	37.45	46.00	8.55	Average
4	0.51	9.70	0.05	32.69	42.44	56.00	13.56	QP
5	1.27	9.77	0.06	28.52	38.35	46.00	7.65	Average
6	1.27	9.77	0.06	32.52	42.35	56.00	13.65	QP
7	2.03	9.79	0.06	27.49	37.34	46.00	8.66	Average
8	2.03	9.79	0.06	31.49	41.34	56.00	14.66	QP
9	3.06	9.91	0.07	28.51	38.49	46.00	7.51	Average
10	3.06	9.91	0.07	32.52	42.50	56.00	13.50	QP
11	4.82	9.93	0.07	27.87	37.87	46.00	8.13	Average
12	4.82	9.93	0.07	30.86	40.86	56.00	15.14	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 29

Site no : 1# Conduction Shield Room Data no. : 30 Env. / Ins. : Temp:23.7°C Humi:53% Press:101.50kPa LINE Phase : LINE

Limit : FCC PART 15B QP

Engineer : SHO

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

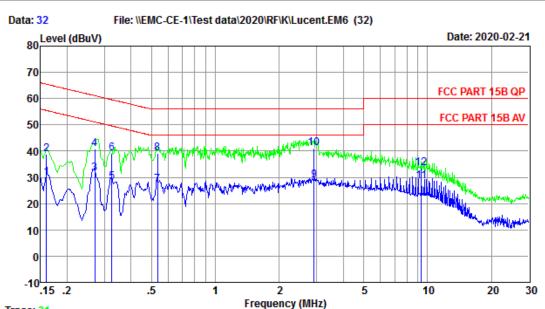
	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.68	0.04	22.10	31.82	55.47	23.65	Average
2	0.16	9.68	0.04	28.10	37.82	65.47	27.65	QP
3	0.20	9.69	0.04	16.48	26.21	53.80	27.59	Average
4	0.20	9.69	0.04	23.48	33.21	63.80	30.59	QP
5	0.26	9.72	0.04	13.71	23.47	51.29	27.82	Average
6	0.26	9.72	0.04	24.70	34.46	61.29	26.83	QP
7	0.32	9.73	0.05	19.17	28.95	49.71	20.76	Average
8	0.32	9.73	0.05	28.17	37.95	59.71	21.76	QP
9	1.03	9.89	0.06	12.99	22.94	46.00	23.06	Average
10	1.03	9.89	0.06	21.00	30.95	56.00	25.05	QP
11	6.59	10.39	0.08	16.75	27.22	50.00	22.78	Average
12	6.59	10.39	0.08	20.75	31.22	60.00	28.78	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Trace: 3'

Site no : 1# Conduction Shield Room Data no. : 32 Env. / Ins. : Temp:23.7°C Humi:53% Press:101.50kPa LINE Phase : NEUTRAL

Limit : FCC PART 15B QP

Engineer : SHO

EUT : Dual Wireless Charging Pad

Power : DC 15V From Adapter Input AC120V/60Hz

M/N : WC10WDUALGGL-AL

Test Mode : TX Mode

	Freq.	LISN Factor (dB)	Cable Loss (dB)	Reading (dBuV)	Emission Level (dBuv)	Limits (dBuv)	Margin (dB)	Remark
1	0.16	9.64	0.04	20.02	29.70	55.47	25.77	Average
2	0.16	9.64	0.04	29.01	38.69	65.47	26.78	QP
3	0.27	9.66	0.04	21.96	31.66	51.12	19.46	Average
4	0.27	9.66	0.04	30.96	40.66	61.12	20.46	QP
5	0.33	9.67	0.05	18.51	28.23	49.57	21.34	Average
6	0.33	9.67	0.05	29.50	39.22	59.57	20.35	QP
7	0.53	9.70	0.05	17.28	27.03	46.00	18.97	Average
8	0.53	9.70	0.05	29.27	39.02	56.00	16.98	QP
9	2.92	9.90	0.07	19.02	28.99	46.00	17.01	Average
10	2.92	9.90	0.07	31.02	40.99	56.00	15.01	QP
11	9.35	9.79	0.08	18.58	28.45	50.00	21.55	Average
12	9.35	9.79	0.08	23.58	33.45	60.00	26.55	QP

Remarks: 1. Emission Level= LISN Factor + Cable Loss + Reading.

- 2. Margin=Limit Emission Level.
- If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



5. ANTENNA REQUIREMENTS

5.1. Limit

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

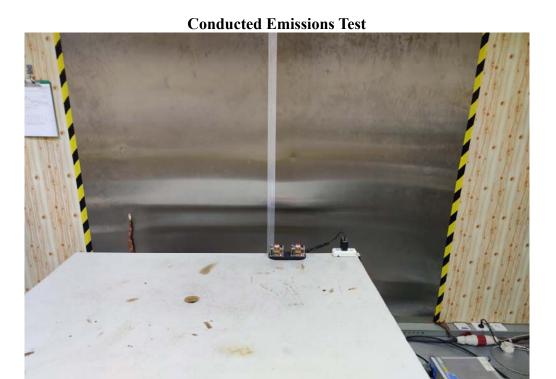
5.2. Test Result

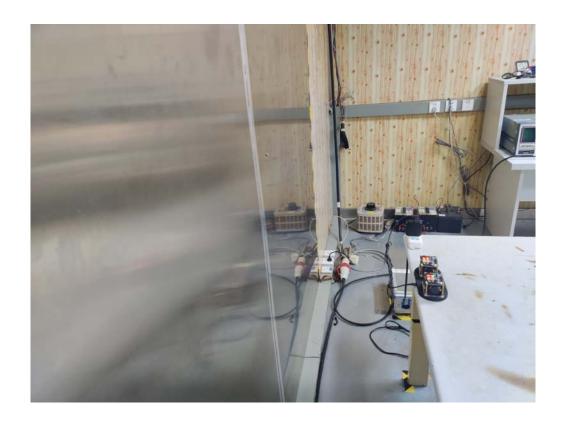
The antennas used for this product is Coil antenna, so compliance with antenna requirements. (Please refer to the EUT photo for details)



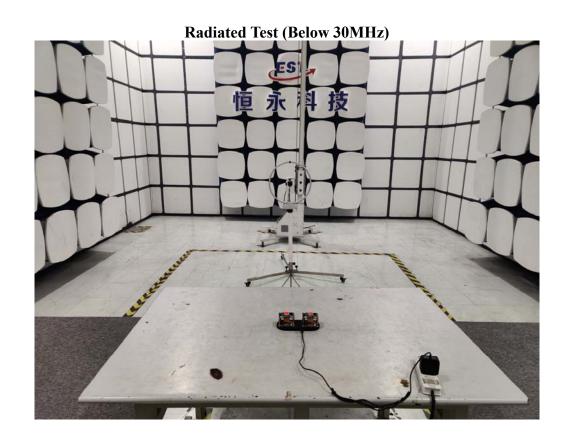
Report No. ESTE-R2003001

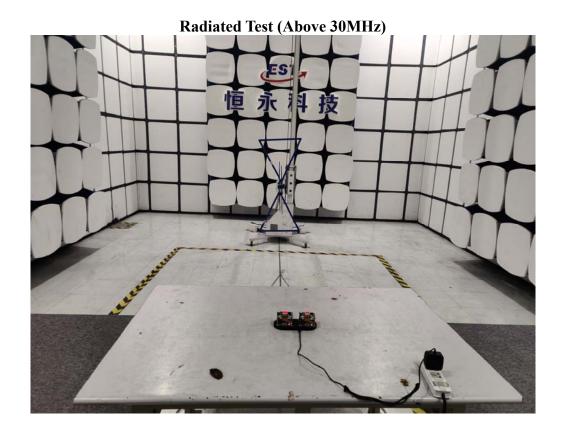
6. TEST SETUP PHOTO







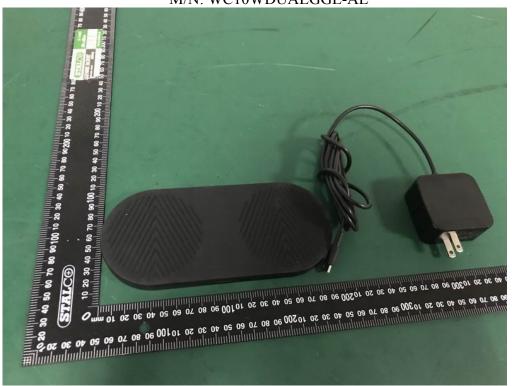






7. EUT PHOTO









External Photos M/N: WC10WDUALGGL-AL







External Photos M/N: WC10WDUALGGL-AL







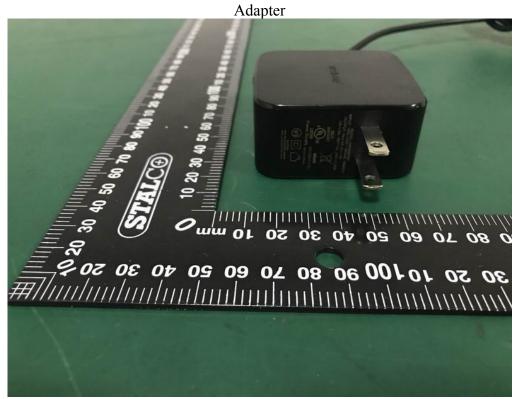
External Photos M/N: WC10WDUALGGL-AL







External PhotosM/N: WC10WDUALGGL-AL





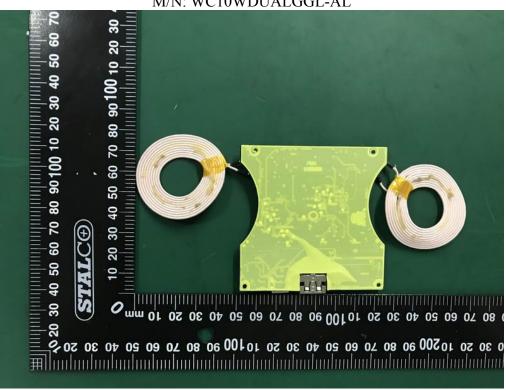
Internal Photos M/N: WC10WDUALGGL-AL

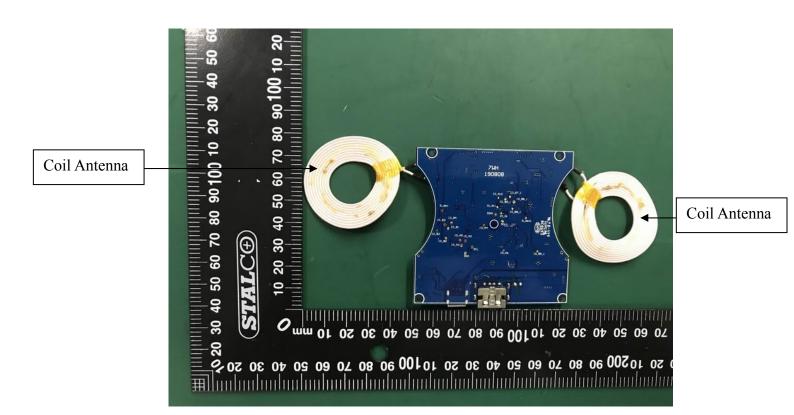






Internal Photos M/N: WC10WDUALGGL-AL





End of Test Report

