



# **TEST REPORT**

Applicant Name: LEADER ELECTRONICS CORP

Address: No.8 Yuanshan Rd., Yushan Town, Kunshan City, Jiangsu

Province, China 215300

Report Number: KS2211222-66481E-00A FCC ID: 2AR5U-DOCK152229W

Test Standard (s)

FCC Part 15C

**Sample Description** 

Product Type: DOCK1500 Series Model No.: DOCK152226W Date Received: 2021-12-22 Report Date: 2022-06-13

Test Result: Pass\*

Prepared and Checked By:

Approved By:

Candy . Ci

Ting Lü

EMC Engineer

Approved By:

Candy Li

EMC Engineer

Note: This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk  $\mbox{\ensuremath{$\star$}}$ ".

Shenzhen Accurate Technology Co., Ltd. is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk \*\*. Customer model name, addresses, names, trademarks etc. are not considered data.

This report cannot be reproduced except in full, without prior written approval of the Company. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.

Shenzhen Accurate Technology Co., Ltd.

1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China
Tel: +86 755-26503290 Fax: +86 755-26503396 Web: www.atc-lab.com

<sup>\*</sup> In the configuration tested, the EUT complied with the standards above.

## **TABLE OF CONTENTS**

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	
TEST METHODOLOGY	
MEASUREMENT UNCERTAINTY	
TEST FACILITY	4
SYSTEM TEST CONFIGURATION	5
JUSTIFICATION	5
EUT Exercise Software	
LOCAL SUPPORT EQUIPMENT	
EXTERNAL I/O CABLE	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	8
TEST EQUIPMENT LIST	9
FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)	
APPLICABLE STANDARD	
BLOCK DIAGRAM OF TEST SETUP	
TEST DATA	
FCC§15.203 – ANTENNA REQUIREMENT	
APPLICABLE STANDARD	13
ANTENNA CONNECTED CONSTRUCTION	13
FCC §15.207 – AC LINE CONDUCTED EMISSION	14
APPLICABLE STANDARD	14
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST PROCEDURE	
CORRECTED FACTOR & MARGIN CALCULATION	
TEST DATA	-
FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST	
APPLICABLE STANDARD	
EUT Setup	
EMI TEST RECEIVER SETUP	
CORRECTED AMPLITUDE & MARGIN CALCULATION	

#### **GENERAL INFORMATION**

#### **Product Description for Equipment under Test (EUT)**

Frequency Range	110.5-205kHz
Antenna Type	Coil
Input Voltage	AC 120V/60Hz
Wireless Charging Output Power	10W*2
Sample serial number	KS2211222-66481E-RF-S1
Sample/EUT Status	Good condition

Report No.: KS2211222-66481E-RF-00A

## **Objective**

This test report is in accordance with Part 2, Subpart J, and Part 15, Subparts A and C of the Federal Communications Commission's rules.

The objective is to determine the compliance of EUT with FCC rules, section 15.203, 15.205, 15.207 and 15.209.

#### **Test Methodology**

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Shenzhen Accurate Technology Co., Ltd. The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

#### **Measurement Uncertainty**

Parameter		Uncertainty
AC Power Lines Conducted Emissions		2.72dB
Emissions,	9kHz – 30MHz	2.66dB
Radiated	30MHz - 1GHz	4.28dB
Temperature		1℃
Humidity		6%
Supply	voltages	0.4%

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Version 43: 2021-11-09 Page 3 of 27 FCC- WPT

#### **Test Facility**

The test site used by Shenzhen Accurate Technology Co., Ltd. to collect test data is located on the 1/F., Building A, Changyuan New Material Port, Science & Industry Park, Nanshan District, Shenzhen, Guangdong, P.R. China.

Report No.: KS2211222-66481E-RF-00A

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 708358, the FCC Designation No.: CN1189.

Accredited by American Association for Laboratory Accreditation (A2LA). The Certificate Number is 4297.01

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0016. The Registration Number is 5077A.

Version 43: 2021-11-09 Page 4 of 27 FCC- WPT

## SYSTEM TEST CONFIGURATION

#### **Justification**

The system was configured for testing in a test mode

#### **EUT Exercise Software**

No software used in test.

## **Local Support Equipment**

Manufacturer	Description	Model	Serial Number	
HUAWEI	Mobile phone*2	Mate30	FEC0220617000901	
Unknown	Load 5	50W100RJ*7	Unknown	
Unknown	Load 6	50W100RJ*16	Unknown	
Unknown	Load *4	/	Unknown	
Unknown	Light*2	/	Unknown	

Report No.: KS2211222-66481E-RF-00A

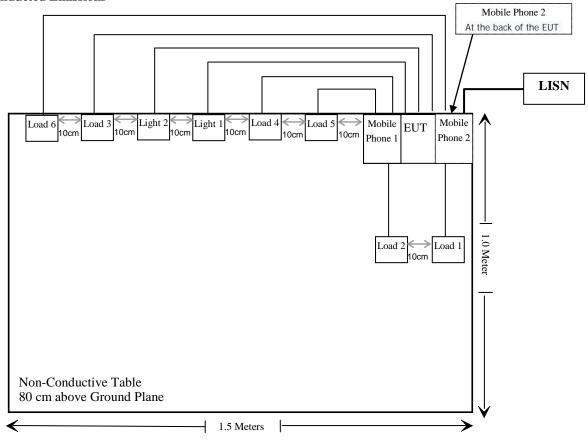
## **External I/O Cable**

Cable Description	Length (m)	From Port	То
Un-shielded Un-Detachable AC Power Cable	2.6	LISN	EUT
Un-shielded Detachable USB Cable (Load 1)	0.6	Load	EUT
Un-shielded Detachable USB Cable (Load 2)	0.94	Load	EUT
Un-shielded Detachable Type C Cable (Load 5)	0.56	Load	EUT
Un-shielded Detachable Type C Cable (Load 6)	1.2	Load	EUT
Un-shielded Detachable USB Cable (Load 3 & 4)	1.4	Load	EUT
Un-shielded Un-Detachable Lampholder AC Power Cable (Light 1)	2.2	Lampholder	EUT
Un-shielded Un-Detachable Lampholder AC Power Cable (Light 2)	2.2	Lampholder	EUT

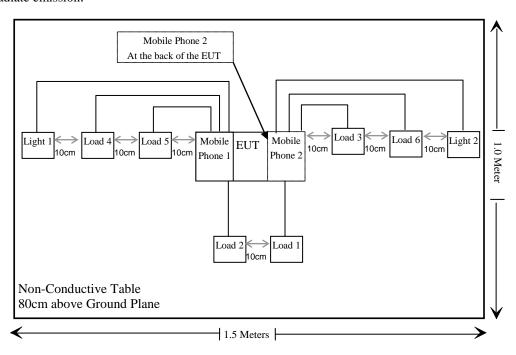
Version 43: 2021-11-09 Page 5 of 27 FCC- WPT

## **Block Diagram of Test Setup**

## **For Conducted Emissions**



#### For Radiate emission:



## **SUMMARY OF TEST RESULTS**

FCC Rules	Description of Test	Result
FCC§1.1310 & §2.1091	Maximum Permissible Exposure(MPE)	Compliant
FCC§15.203	Antenna Requirement	Compliant
FCC§15.207	AC Line Conducted Emission	Compliant
§15.209 §15.205	Radiated Emission Test	Compliant

Report No.: KS2211222-66481E-RF-00A

## TEST EQUIPMENT LIST

Manufacturer Description		Model	Serial Number	Calibration Date	Calibration Due Date		
MPE							
Narda	Electric and Magnetic Field Analyzer	EHP-200AC	180ZX10204	2021/06/07	2024/06/06		
Narda	USB-RS232 Converter	Unknown	20042558	/	/		
Narda	Software	EHP200-TS	Unknown	/	/		
	Co	onducted Emission	s Test				
Rohde& Schwarz	EMI Test Receiver	ESCI	100784	2021/12/13	2022/12/12		
R & S	L.I.S.N.	ENV216	101314	2021/12/13	2022/12/12		
Unknown RF Coaxial Cable		No.17	N0350	2021/12/14	2022/12/13		
Conducted Emission	Test Software: e3 1982	lb (V9)					
		RF Radiated tes	st				
Rohde& Schwarz	Test Receiver	ESR	102725	2021/12/13	2022/12/12		
SONOMA INSTRUMENT	Amplifier	310 N	186131	2021/11/09	2022/11/08		
SCHWARZBECK	LOOP ANTENNA	FMZB1516	1516131	2021/12/22	2024/12/21		
Schwarzbeck	Bilog Antenna	VULB9163	9163-323	2021/07/06	2024/07/05		
Unknown	RF Coaxial Cable	No.12	N040	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.13	N300	2021/12/14	2022/12/13		
Unknown	RF Coaxial Cable	No.14	N800	2021/12/14	2022/12/13		
Radiated Emission Test Software: e3 19821b (V9)							

Report No.: KS2211222-66481E-RF-00A

Version 43: 2021-11-09 Page 9 of 27 FCC- WPT

<sup>\*</sup> Statement of Traceability: Shenzhen Accurate Technology Co., Ltd. attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

#### FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)

#### **Applicable Standard**

According to subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Report No.: KS2211222-66481E-RF-00A

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

(B) Limits for General Population/Uncontrolled Exposure							
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm²)	Averaging Time (minutes)			
0.3–1.34	614	1.63	*(100)	30			
1.34–30	824/f	2.19/f	*(180/f²)	30			
30–300	27.5	0.073	0.2	30			
300–1500	/	/	f/1500	30			
1500–100,000	/	/	1.0	30			

f = frequency in MHz; \* = Plane-wave equivalent power density;

According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

c) For devices designed for typical desktop applications, such a wireless charging pads, RF exposure evaluation should be conducted assuming a user separation distance of 15 cm. E and H field strength measurements or numerical modeling may be used to demonstrate compliance. Measurements should be made from all sides and the top of the primary/client pair, with the 15 cm measured from the center of the probe(s) to the edge of the device. Emissions between 100 kHz to 300 kHz should be assessed versus the limits at 300 kHz in Table 1 of Section 1.1310: 614 V/m and 1.63 A/m. A KDB inquiry is required to determine the applicable exposure limits below 100 kHz.

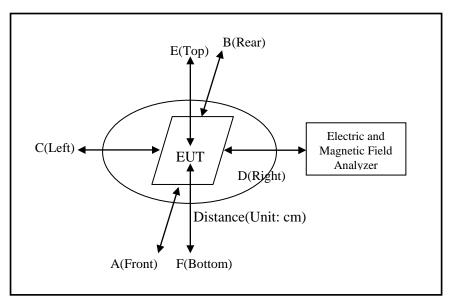
According to KDB 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b)

- b) Inductive wireless power transfer applications with supporting field strength results and meeting all of the following requirements are not required to submit a KDB inquiry for devices approved using SDoC <sup>2</sup>or a PAG<sup>3</sup> for equipment approved using certification to address RF exposure compliance. However, the responsible party is required to keep a copy of the test report in accordance with KDB 865664 D02. A copy of the test report is to be submitted with the application if the device is approved using certification.
  - (1) Power transfer frequency is less than 1 MHz
  - (2) Output power from each primary coil is less than or equal to 15 watts.
  - (3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.
  - (4) Client device is placed directly in contact with the transmitter.
  - (5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).
  - (6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Version 43: 2021-11-09 Page 10 of 27 FCC- WPT

#### Report No.: KS2211222-66481E-RF-00A

## **Block Diagram of Test Setup**



Vote

For mobile condition distance: A/B/C/D is 15cm; E is 20cm;

#### **Test Data**

#### **Environmental Conditions**

Temperature:	26°C
Relative Humidity:	51 %
ATM Pressure:	100.0 kPa

The testing was performed by Ting Lü on 2022-06-09.

Test Mode: Wireless Charging (Worst case for maximum power full load)

#### **H-Field Strength**

Frequency Range (kHz)	Position A (A/m)	Position B (A/m)	Position C (A/m)	Position D (A/m)	Position E (A/m)	50% Limit (A/m)	Limit
110.5kHz-205kHz	0.146	0.121	0.142	0.122	0.112	0.815	1.63

Report No.: KS2211222-66481E-RF-00A

#### E-Field Strength

Frequency Range (kHz)	Position A (V/m)	Position B (V/m)	Position C (V/m)	Position D (V/m)	Position E (V/m)	50% Limit (V/m)	Limit
110.5kHz-205kHz	0.628	0.421	0.611	0.425	0.282	307	614

Note: Test with 15cm distance from the center of the probe(s) to the edge of the device, 20cm from the center of the probe(s) to the top of the device.

#### **Result: Pass**

#### Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03r01 clause 5 b:

(1) Power transfer frequency is less than 1 MHz.

Yes, the operation frequency is 110.5-205kHz.

(2) Output power from each primary coil is less than or equal to 15 watts.

Yes, the maximum output power of primary coil is 10Watts.

(3) The system may consist of more than one source primary coils, charging one or more clients. If more than one primary coil is present, the coil pairs may be powered on at the same time.

The transfer system includes two primary coils to detect and allow coupling only between individual pairs of coils.

(4) Client device is placed directly in contact with the transmitter.

Yes, client device is placed directly in contact with the transmitter

(5) Mobile exposure conditions only (portable exposure conditions are not covered by this exclusion).

Yes, mobile exposure conditions only

(6) The aggregate H-field strengths anywhere at or beyond 15 cm surrounding the device, and 20 cm away from the surface from all coils that by design can simultaneously transmit, and while those coils are simultaneously energized, are demonstrated to be less than 50% of the applicable MPE limit.

Yes, the test result for H and E-Field strength less than 50% of the MPE limit.

Version 43: 2021-11-09 Page 12 of 27 FCC- WPT

## FCC§15.203 – ANTENNA REQUIREMENT

#### **Applicable Standard**

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.

Report No.: KS2211222-66481E-RF-00A

#### **Antenna Connected Construction**

The EUT has two internal coils arrangement which was permanently attached, fulfill the requirement of this section. Please refer to the EUT photos.

**Result: Compliant.** 

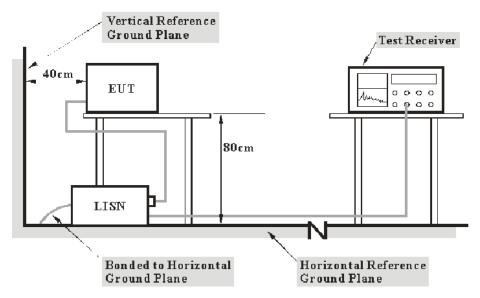
Version 43: 2021-11-09 Page 13 of 27 FCC- WPT

## FCC §15.207 – AC LINE CONDUCTED EMISSION

#### **Applicable Standard**

FCC§15.207

#### **EUT Setup**



Report No.: KS2211222-66481E-RF-00A

Note: 1. Support units were connected to second LISN.

2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

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.

The spacing between the peripherals was 10 cm.

#### **EMI Test Receiver Setup**

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

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

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

#### **Test Procedure**

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Version 43: 2021-11-09 Page 14 of 27 FCC- WPT

#### **Corrected Factor & Margin Calculation**

The factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss. The basic equation is as follows:

Report No.: KS2211222-66481E-RF-00A

Factor = LISN VDF + Cable Loss

The "Over limit" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over limit of -7 dB means the emission is 7 dB below the limit. The equation for calculation is as follows:

Over Limit = Level – Limit Level = Read Level + Factor

#### **Test Data**

#### **Environmental Conditions**

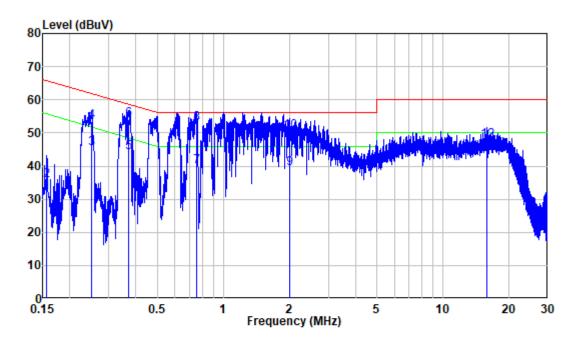
Temperature:	25 °C
Relative Humidity:	64 %
ATM Pressure:	101.0 kPa

The testing was performed by Bin Deng on 2021-12-30.

Test Mode: Wireless charging (Worst case for maximum power full load)

Version 43: 2021-11-09 Page 15 of 27 FCC- WPT

#### AC 120 V/60 Hz, Line:



Site : Shielding Room

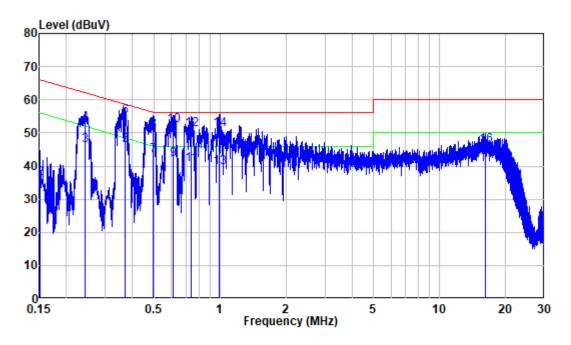
Condition: Line

Mode : FULL LOAD Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.157	9.88	22.12	32.00	55.61	-23.61	Average
2	0.157	9.88	25.61	35.49	65.61	-30.12	QP
3	0.251	9.80	35.34	45.14	51.72	-6.58	Average
4	0.251	9.80	43.67	53.47	61.72	-8.25	QP
5	0.368	9.80	34.19	43.99	48.54	-4.55	Average
6	0.368	9.80	44.30	54.10	58.54	-4.44	QP
7	0.753	9.81	30.09	39.90	46.00	-6.10	Average
8	0.753	9.81	43.14	52.95	56.00	-3.05	QP
9	2.001	9.92	29.39	39.31	46.00	-6.69	Average
10	2.001	9.92	40.53	50.45	56.00	-5.55	QP
11	15.896	10.08	34.59	44.67	50.00	-5.33	Average
12	15.896	10.08	37.59	47.67	60.00	-12.33	QP

#### Report No.: KS2211222-66481E-RF-00A

#### **AC 120V/ 60 Hz, Neutral:**



Site : Shielding Room

Condition: Neutral Mode : FULL LOAD Power : AC 120V 60Hz

	Freq	Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dBuV	dBuV	dBuV	dB	
1	0.151	9.90	22.90	32.80	55.92	-23.12	Average
2	0.151	9.90	26.27	36.17	65.92	-29.75	QP
3	0.242	9.98	36.24	46.22	52.02	-5.80	Average
4	0.242	9.98	42.75	52.73	62.02	-9.29	QP
5	0.371	9.93	36.16	46.09	48.49	-2.40	Average
6	0.371	9.93	45.02	54.95	58.49	-3.54	QP
7	0.498	9.90	33.25	43.15	46.04	-2.89	Average
8	0.498	9.90	40.82	50.72	56.04	-5.32	QP
9	0.614	9.91	31.97	41.88	46.00	-4.12	Average
10	0.614	9.91	42.18	52.09	56.00	-3.91	QP
11	0.740	9.91	30.40	40.31	46.00	-5.69	Average
12	0.740	9.91	41.20	51.11	56.00	-4.89	QP
13	0.996	9.91	29.63	39.54	46.00	-6.46	Average
14	0.996	9.91	41.22	51.13	56.00	-4.87	QP
15	16.119	10.08	33.35	43.43	50.00	-6.57	Average
16	16.119	10.08	35.97	46.05	60.00	-13.95	QP

## FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

#### **Applicable Standard**

As per FCC Part 15.209

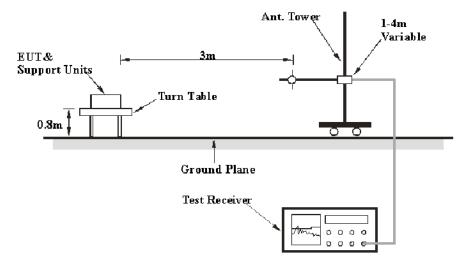
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Report No.: KS2211222-66481E-RF-00A

Frequency (MHz)	Field strength (microvolts/meter)	Measurement distance (meters)
0.009-0.490	2400/F(kHz)	300
0.490-1.705	24000/F(kHz)	30
1.705-30.0	30	30
30-88	100**	3
88-216	150**	3
216-960	200**	3
Above 960	500	3

<sup>\*\*</sup>Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permItted under other sections of this part, e.g., §§15.231 and 15.241.

#### **EUT Setup**



The radiated emission tests were performed in the 3-meter chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part Subpart C limits.

The spacing between the peripherals was 10 cm.

Version 43: 2021-11-09 Page 18 of 27 FCC- WPT

#### **EMI Test Receiver Setup**

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

Frequency Range	RBW	Video B/W	Measurement	
9 kHz – 150 kHz	300 Hz	1 kHz	PK	
150 kHz – 30 MHz	10 kHz	30 kHz	PK	
30 MHz – 1000 MHz	120 kHz	300 kHz	QP	

Report No.: KS2211222-66481E-RF-00A

The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90 kHz, 110-490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.

If the maximized peak measured value complies with the limit, then it is unnecessary to perform an QP/Average measurement

#### **Corrected Amplitude & Margin Calculation**

The Factor is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain. The basic equation is as follows:

Factor = Antenna Factor + Cable Loss - Amplifier Gain

The "Over Limit/Margin" column of the following data tables indicates the degree of compliance with the applicable limit. For example, an Over Limit/margin of -7dB means the emission is 7dB below the limit. The equation for calculation is as follows:

Over Limit/Margin = Level / Corrected Amplitude – Limit Level / Corrected Amplitude = Read Level + Factor

#### **Test Data**

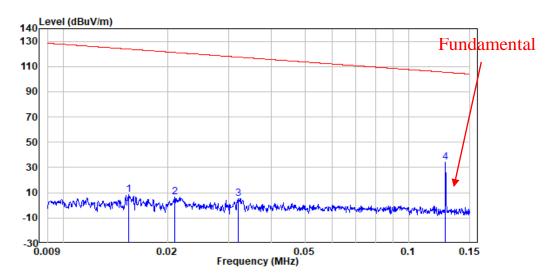
#### **Environmental Conditions**

Temperature:	22 °C
Relative Humidity:	62 %
ATM Pressure:	101 kPa

The testing was performed by Chao Mo on 2021-12-30.

*Test Mode: Wireless charging (Worst case for maximum power full load)* 

#### 9 kHz~30MHz:



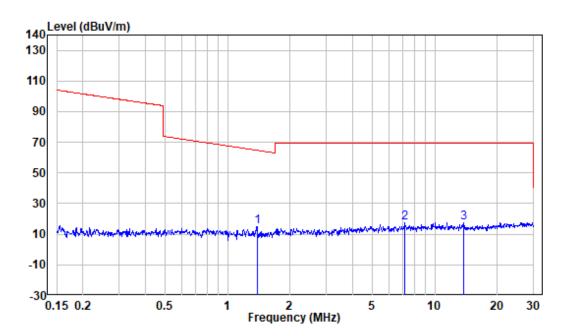
Site : chamber Condition: 3m

Job No. : KS2211222-66481E-RF

Test Mode: Full Load

Note : Ground-parallel

	Freq	Factor		Level		Over Limit	Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	0.015	-11.53	19.86	8.33	123.80	-115.47	Peak	
2	0.021	-11.69	18.09	6.40	121.16	-114.76	Peak	
3	0.032	-11.63	16.81	5.18	117.47	-112.29	Peak	
4	0.127	-11.86	46.20	34.34	105.50	-71.16	Peak	



Site : chamber

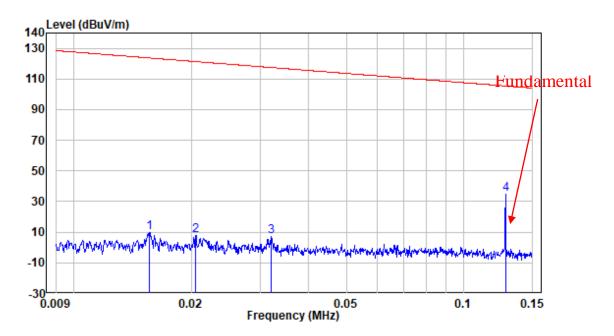
Condition: 3m

Job No. : KS2211222-66481E-RF

Test Mode: Full Load

Note : Ground-parallel

	Freq	Factor			Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	1.388	-11.48	26.24	14.76	64.56	-49.80	Peak
2	7.175	-11.45	29.17	17.72	69.54	-51.82	Peak
3	13.768	-10.92	28.26	17.34	69.54	-52.20	Peak

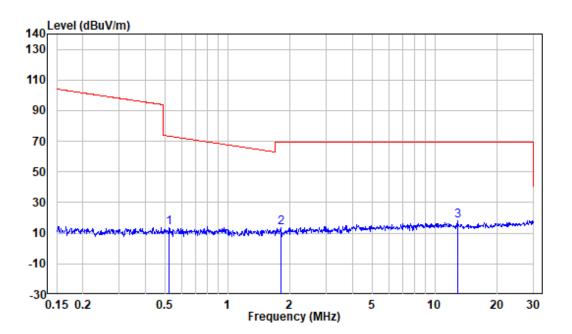


Job No. : KS2211222-66481E-RF

Test Mode: Full Load Note : Perpendicular

	Fren	Factor		Level		Over	Demark	
			Level				Kellidi K	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	0.016	-11.54	21.37	9.83	123.71	-113.88	Peak	
2	0.021	-11.69	19.85	8.16	121.34	-113.18	Peak	
3	0.032	-11.63	18.92	7.29	117.47	-110.18	Peak	
4	0.128	-11.87	46.69	34.82	105.48	-70.66	Peak	

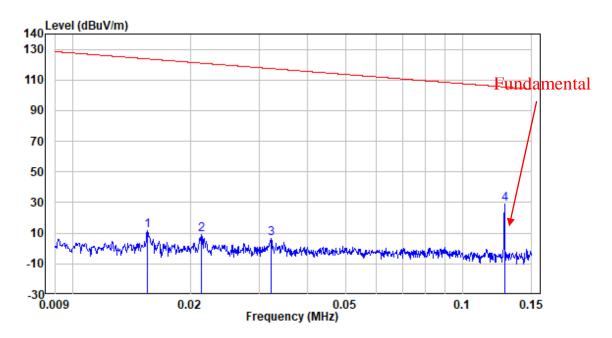
V



Job No. : KS2211222-66481E-RF

Test Mode: Full Load Note : Perpendicular

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	0.524	-11.61	25.21	13.60	73.21	-59.61	Peak
2	1.819	-11.38	24.86	13.48	69.54	-56.06	Peak
3	12.852	-10.89	28.92	18.03	69.54	-51.51	Peak

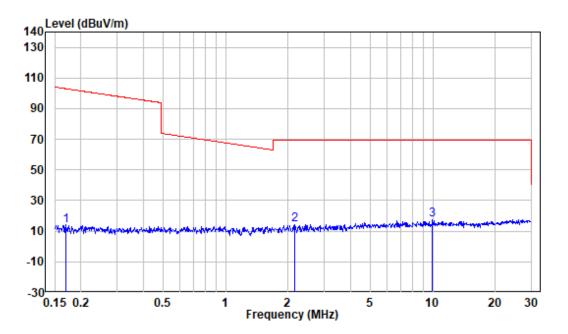


Job No. : KS2211222-66481E-RF

Test Mode: Full Load Note : Parallel

	Freq	Factor		Level		Over Limit	Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		
1	0.016	-11.54	23.02	11.48	123.78-	112.30	Peak	
2	0.021	-11.69	21.02	9.33	120.99-	111.66	Peak	
3	0.032	-11.63	17.95	6.32	117.43	111.11	Peak	
4	0.128	-11.87	40.93	29.06	105.48	-76.42	Peak	

Version 43: 2021-11-09 Page 24 of 27 FCC- WPT



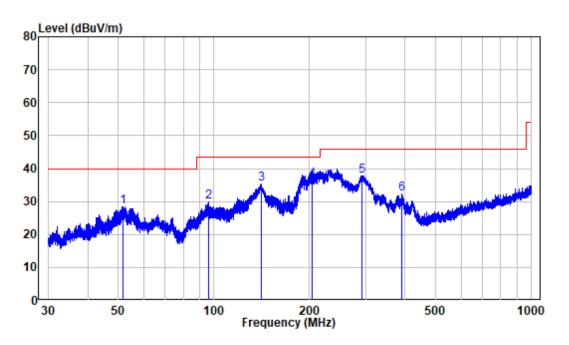
Job No. : KS2211222-66481E-RF

Test Mode: Full Load Note : Parallel

	Freq	Factor			Limit Line		Remark	
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB		_
1	0.170	-12.07	25.92	13.85	102.98	-89.13	Peak	
2	2.155	-11.41	25.83	14.42	69.54	-55.12	Peak	
3	9.966	-10.96	28.31	17.35	69.54	-52.19	Peak	

#### 30MHz~1GHz:

#### Horizontal



Site : chamber

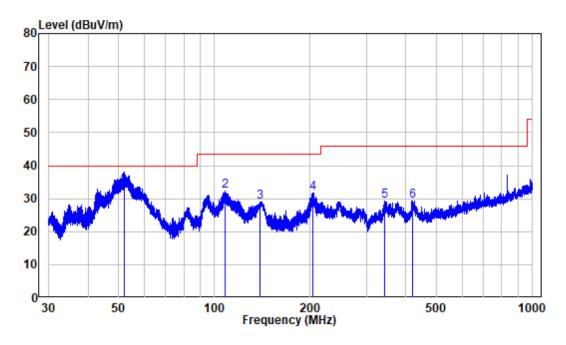
Condition: 3m Horizontal

Job No. : KS2211222-66481E-RF

Test Mode: Full Load

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.820	-9.97	38.36	28.39	40.00	-11.61	Peak
2	95.972	-12.31	42.08	29.77	43.50	-13.73	Peak
3	140.835	-15.48	50.69	35.21	43.50	-8.29	Peak
4	203.701	-11.72	48.31	36.59	43.50	-6.91	QP
5	291.930	-9.29	47.06	37.77	46.00	-8.23	Peak
6	390.209	-6.89	39.25	32.36	46.00	-13.64	Peak

#### Vertical



Site : chamber Condition: 3m VERTICAL

Job No. : KS2211222-66481E-RF

Test Mode: Full Load

	Freq	Factor			Limit Line		Remark
	MHz	dB/m	dBuV	dBuV/m	dBuV/m	dB	
1	51.866	-9.97	43.88	33.91	40.00	-6.09	QP
2	107.699	-11.98	44.14	32.16	43.50	-11.34	Peak
3	139.300	-15.42	44.34	28.92	43.50	-14.58	Peak
4	203.969	-11.74	43.51	31.77	43.50	-11.73	Peak
5	343.180	-7.29	36.56	29.27	46.00	-16.73	Peak
6	420.580	-6.10	35.51	29.41	46.00	-16.59	Peak

## \*\*\*\*\* END OF REPORT \*\*\*\*\*