



# FCC PART 15C

# **TEST REPORT**

For

# Shenzhen Xintuo Supply Chain LTD

F1 Building 2 Snow Industrial Park SnowElephant Community, Bantian Street, Longgang, Shenzhen, Guangdong, China

# FCC ID: 2APMD-PA150A

<b>Report Type:</b> Original Report		<b>Product Name</b> 2 in 1 Wireles		.d
Report Number:	RDG190:	505006-00		
Report Date:	2019-05-	14		
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**Note:** This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Dongguan). This report must not be used by the customer to claim product certification, approval, or endorsement by A2LA\* or any agency of the Federal Government. \* This report may contain data that are not covered by the A2LA accreditation and are marked with an asterisk "\*".

# **TABLE OF CONTENTS**

GENERAL INFORMATION	3
PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	3
Objective	
RELATED SUBMITTAL(S)/GRANT(S)	
TEST METHODOLOGY	
Measurement Uncertainty	
TEST FACILITY	4
SYSTEM TEST CONFIGURATION	
JUSTIFICATION	5
EUT Exercise Software	
SUPPORT EQUIPMENT LIST AND DETAILS	
SUPPORT CABLE LIST AND DETAILS	
BLOCK DIAGRAM OF TEST SETUP	6
SUMMARY OF TEST RESULTS	7
FCC §1.1310, §2.1091- MAXIMUM PERMISSIBLE EXPOSURE (MPE)	8
APPLICABLE STANDARD	
BLOCK DIAGRAM OF TEST SETUP	
TEST EQUIPMENT LIST AND DETAILS	
TEST DATA	9
FCC§15.203 - ANTENNA REQUIREMENT	
APPLICABLE STANDARD	
ANTENNA CONNECTED CONSTRUCTION	11
FCC §15.207 – AC LINE CONDUCTED EMISSION	12
EUT SETUP	
EMI TEST RECEIVER SETUP	
TEST EQUIPMENT LIST AND DETAILS	
TEST PROCEDURE	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
Test Results Summary	
TEST DATA	
FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST	17
APPLICABLE STANDARD	
EUT SETUP	
EMI TEST RECEIVER SETUP	
CORRECTED AMPLITUDE & MARGIN CALCULATION	
TEST EQUIPMENT LIST AND DETAILS	
TEST RESULTS SUMMARY	
TEST DATA	19

# **GENERAL INFORMATION**

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

EUT Name:	2 in 1 Wireless Charger Pad
EUT Model:	PA150A
Rated Input Voltage:	DC 5V form Adapter
External Dimension:	189mm(L)*104.5mm(W)*15mm(H)
Serial Number:	190505006
EUT Received Date:	2019-05-06

### Objective

This Type approval report is prepared on behalf of *Shenzhen Xintuo Supply Chain LTD* 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 the EUT with FCC rules, 15.203, 15.205, 15.207, 15.209.

### **Related Submittal(s)/Grant(s)**

No related submittal(s)/grant(s).

### **Test Methodology**

All measurements detailed in this Test Report were performed in accordance with ANSI C63.10-2013 "American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices".

All emissions measurement was performed and Bay Area Compliance Laboratories Corp. (Dongguan). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

### **Measurement Uncertainty**

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5$ %
	9kHz~30MHz: 4.12dB
radiated Emissions	30M~200MHz: 4.58 dB for Horizontal, 4.59 dB for Vertical
	200M~1GHz: 4.83 dB for Horizontal, 5.85 dB for Vertical
Temperature	$\pm 1^{\circ}\mathbb{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	3.12 dB (150 kHz to 30 MHz)

### **Test Facility**

The Test site used by Bay Area Compliance Laboratories Corp. (Dongguan) to collect test data is located on the No.69 Pulongcun, Puxinhu Industry Area, Tangxia, Dongguan, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 897218, the FCC Designation No. : CN1220.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier : CN0022.

# SYSTEM TEST CONFIGURATION

### Justification

The system was configured for testing in a test mode

The device is a wireless charger operation on frequency 110 kHz - 215 kHz.

### **EUT Exercise Software**

No software used in test.

### **Support Equipment List and Details**

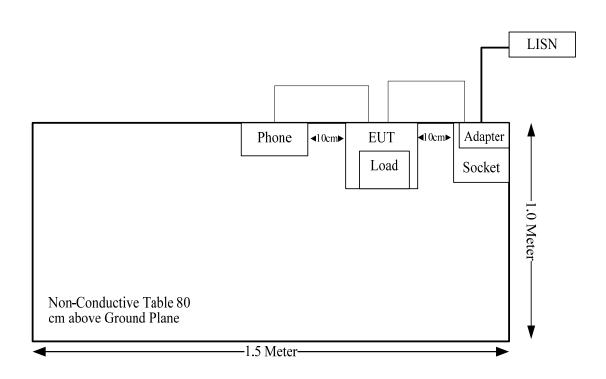
Manufacturer	Description	Model	Serial Number	
Unknown	Adapter	QC24-US	/	
Unknown	Test load	WLCTL-10W	/	
360	Phone	N6 Pro	99000865366980	

### Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From	То
USB cable	No	No	1.0	Adapter	EUT
USB cable	No	No	1.0	Phone	EUT

Report No.: RDG190505006-00

# **Block Diagram of Test Setup**



# SUMMARY OF TEST RESULTS

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

# 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.

	(B) Limits for General Population/Uncontrolled Exposure								
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm <sup>2</sup> )	Averaging Time (minutes)					
0.3–1.34	614	1.63	*(100)	30					
1.34–30	824/f	2.19/f	*(180/f <sup>2</sup> )	30					
30–300	27.5	0.073	0.2	30					
300-1500	/	/	f/1500	30					
1500-100,000	/	/	1.0	30					

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

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

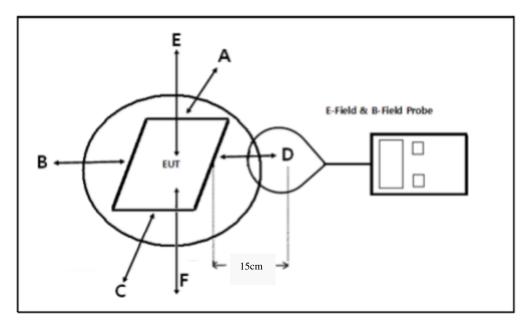
According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03 clause 3 c)

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 680106 D01 RF Exposure Wireless Charging App v03 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 or a PAG 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 transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.
  - (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 at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

## **Block Diagram of Test Setup**



Note: 20 cm for Top test.

### **Test Equipment List and Details**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Narda	Exposure Level Tester	ELT-400	N-0229	2017-11-15	2019-11-15
Narda	B Field Probe	ELT Probe 100cm2	M-0666	2017-11-15	2019-11-15
Amplifier Research	Isotropic Field Probe	FP5000	301825	2018-11-22	2021-11-22

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

## **Test Data**

### **Environmental Conditions**

Temperature:	24.9 °C
<b>Relative Humidity:</b>	50 %
ATM Pressure:	101 kPa

\* The testing was performed by Vern Shen on 2019-05-08

Test mode: Transmitting

#### Report No.: RDG190505006-00

#### **H-field Strength**

I	Frequency	Position	Position	Position	Position	Position	50%	Limit
	Range	A	B	C	D	E	Limit	Test
	(kHz)	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)	(A/m)
	110-215	0.203	0.215	0.142	0.279	0.368	0.815	1.63

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

#### **E-field Strength**

Frequency	Position	Position	Position	Position	Position	50%	Limit
Range	A	B	C	D	E	Limit	Test
(kHz)	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)	(V/m)
110-215	4.526	4.535	3.884	4.543	5.873	307	

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

#### **Result:** Compliance

#### Considerations of compliance 680106 D01 RF Exposure Wireless Charging App v03 clause 5 b:

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

Yes, the operation frequency is 110-215 kHz.

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

Yes, the maximum output power of primary coil is 10 Watts, less than 15 watts.

(3) The transfer system includes only single primary and secondary coils. This includes charging systems that may have multiple primary coils and clients that are able to detect and allow coupling only between individual pairs of coils.

The transfer system includes only single 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 at 15 cm surrounding the device and 20 cm above the top surface from all simultaneous transmitting coils are demonstrated to be less than 50% of the MPE limit.

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

# 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.

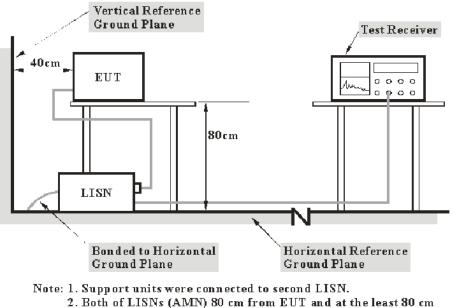
### **Antenna Connected Construction**

The EUT has an integral antenna arrangement, which was permanently attached and fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliance.

# FCC §15.207 – AC LINE CONDUCTED EMISSION

## **EUT Setup**



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 external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

The adapter was connected to the main LISN with an AC 120V/60Hz power source.

### **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

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	101121	2019-03-23	2020-03-23
Unknown	Coaxial Cable	C-NJNJ-50	C-0200-01	2018-09-05	2019-09-05
R&S	Test Software		Version8.53.0	N/A	N/A
R&S	Two-line V-network	ENV 216	101614	2018-12-10	2019-12-10
R&S	L.I.S.N	ESH2-Z5	892107/021	2018-09-19	2019-09-19

### **Test Equipment List and Details**

\* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

### **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 data was recorded in the Quasi-peak and average detection mode.

According FCC publication number 174176, for a device with a permanent antenna operating at or below 30 MHz, the measurements done with a suitable dummy load, in lieu of the permanent antenna under the following conditions: (1) perform the AC line conducted tests with the permanent antenna to determine compliance with the Section 15.207 limits outside the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the transmitter's fundamental emission band; (2) retest with a dummy load in lieu of the permanent antenna to determine compliance with the Section 15.207 limits within the transmitter's fundamental emission band.

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

The basic equation is as follows:

 $V_C = V_R + A_C + VDF$ 

Herein,  $V_C$ : corrected voltage amplitude  $V_R$ : reading voltage amplitude

A<sub>c</sub>: attenuation caused by cable loss

VDF: voltage division factor of AMN or ISN

The "**Margin**" column of the following data tables indicates the degree of compliance within the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

Margin = Limit – Corrected Amplitude

# **Test Results Summary**

According to the recorded data in following table, the EUT complied with the FCC Part 15.207.

### **Test Data**

### **Environmental Conditions**

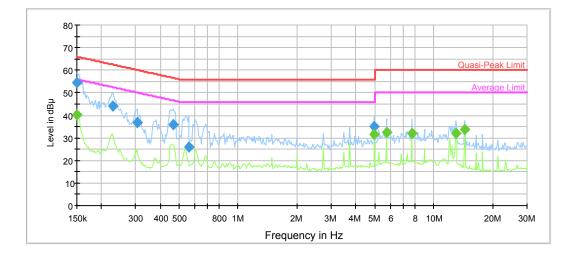
Temperature:	24.9 °C
<b>Relative Humidity:</b>	50 %
ATM Pressure:	101 kPa

\* The testing was performed by Vern Shen on 2019-05-08

Report No.: RDG190505006-00

# Test Mode: Transmitting

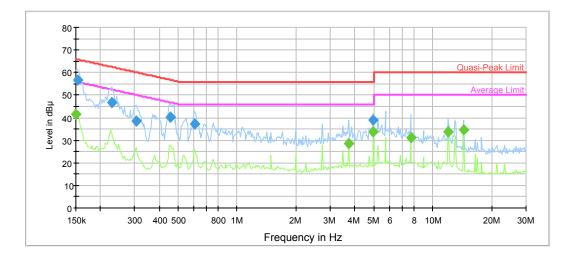
# AC 120V, 60 Hz, Line:



Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	54.7	9.000	L1	11.2	11.3	66.0	Compliance
0.230097	44.1	9.000	L1	10.4	18.3	62.4	Compliance
0.304025	36.8	9.000	L1	10.1	23.3	60.1	Compliance
0.466367	36.1	9.000	L1	9.9	20.5	56.6	Compliance
0.557844	25.8	9.000	L1	9.8	30.2	56.0	Compliance
4.979837	35.0	9.000	L1	9.8	21.0	56.0	Compliance

Frequency (MHz)	Average (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	40.2	9.000	L1	11.2	15.8	56.0	Compliance
4.979837	31.6	9.000	L1	9.8	14.4	46.0	Compliance
5.724194	32.5	9.000	L1	9.8	17.5	50.0	Compliance
7.715349	32.2	9.000	L1	9.8	17.8	50.0	Compliance
12.943955	32.2	9.000	L1	9.9	17.8	50.0	Compliance
14.441161	33.5	9.000	L1	9.9	16.5	50.0	Compliance

# AC120 V, 60 Hz, Neutral:



Frequency (MHz)	Quasi Peak (dBµV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.153015	56.7	9.000	Ν	11.1	9.1	65.8	Compliance
0.230097	46.7	9.000	N	10.4	15.7	62.4	Compliance
0.307065	38.5	9.000	Ν	10.1	21.5	60.0	Compliance
0.457178	40.1	9.000	Ν	9.9	16.6	56.7	Compliance
0.610106	37.0	9.000	Ν	9.8	19.0	56.0	Compliance
4.979837	38.8	9.000	Ν	9.8	17.2	56.0	Compliance

Frequency (MHz)	Average (dBμV)	Bandwidth (kHz)	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)	Comment
0.150000	41.6	9.000	Ν	11.2	14.4	56.0	Compliance
3.731602	28.7	9.000	Ν	9.8	17.3	46.0	Compliance
4.979837	33.9	9.000	Ν	9.8	12.1	46.0	Compliance
7.715349	31.3	9.000	Ν	9.8	18.7	50.0	Compliance
11.953526	33.7	9.000	Ν	9.8	16.3	50.0	Compliance
14.441161	34.5	9.000	Ν	9.9	15.5	50.0	Compliance

# FCC §15.205 & §15.209 - RADIATED EMISSIONS TEST

### **Applicable Standard**

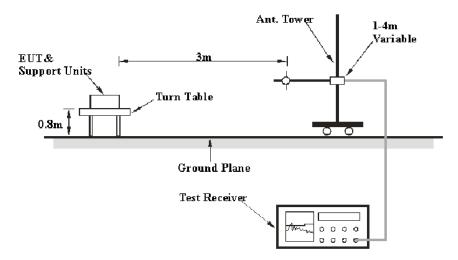
As per FCC Part 15.209

(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:

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

\*\*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.

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

The system was investigated from 9 kHz to 1 GHz.

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	200 Hz	1 kHz	QP/Average
150 kHz – 30 MHz	9 kHz	30 kHz	QP/Average
30 MHz – 1000 MHz	120 kHz	300 kHz	QP

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

Corr. Ampl. = Meter Reading + Antenna Factor + Cable Loss - Amplifier Gain

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

Margin = Limit - Corr. Ampl.

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	EMI Test Receiver	ESCI	100224	2018-12-10	2019-12-10
Farad	Test Software	EZ-EMC	V1.1.4.2	N/A	N/A
EMCO	Passive Loop	6512	9706-1206	2017-03-05	2020-03-04
Unknown	Coaxial Cable	C-NJNJ-50	C-0400-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-0075-01	2018-09-05	2019-09-05
Unknown	Coaxial Cable	C-NJNJ-50	C-1400-01	2019-05-06	2020-05-06
Sunol Sciences	Antenna	JB3	A060611-1	2017-11-10	2020-11-10
HP	Amplifier	8447D	2727A05902	2018-09-05	2019-09-05

#### **Test Equipment List and Details**

\* Statement of Traceability: Bay Area Compliance Laboratories Corp. (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

# **Test Results Summary**

According to the data in the following table, the EUT complied with the FCC Part 15.209&15.205.

### **Test Data**

#### **Environmental Conditions**

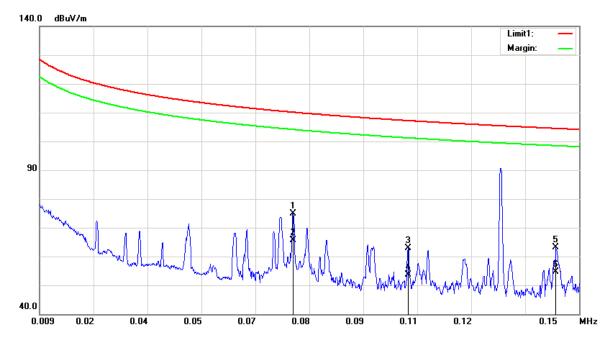
Temperature:	24.9 °C
<b>Relative Humidity:</b>	50 %
ATM Pressure:	101 kPa

\* The testing was performed by Vern Shen on 2019-05-08

Test mode: Transmitting

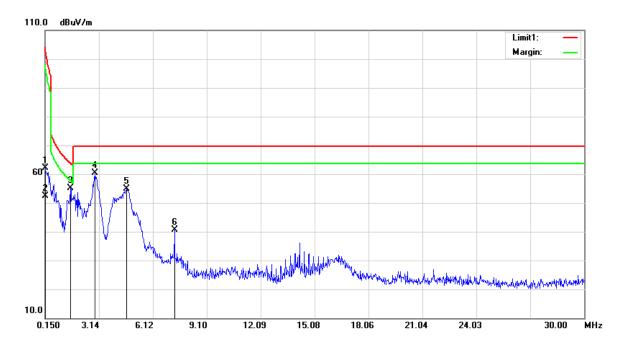
# Report No.: RDG190505006-00

### 1) 9kHz -30MHz



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
0.0752	5.78	peak	69.22	75.00	110.08	35.08
0.0752	-3.52	AVG	69.22	65.70	110.08	44.38
0.1053	-3.55	peak	66.51	62.96	107.15	44.19
0.1053	-12.81	AVG	66.51	53.70	107.15	53.45
0.1295	25.53	peak	65.13	90.66	105.36	14.70
0.1440	-1.27	peak	64.30	63.03	104.43	41.40
0.1440	-9.60	AVG	64.30	54.70	104.43	49.73

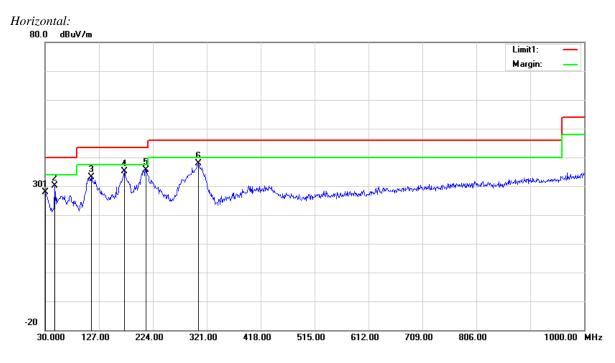




Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
0.1500	23.58	peak	38.62	62.20	104.08	41.88
1.5530	36.44	peak	18.81	55.25	63.77	8.52
2.9261	46.67	peak	13.63	60.30	69.54	9.24
4.6574	43.80	peak	11.09	54.89	69.54	14.65
7.3140	30.52	peak	10.08	40.60	69.54	28.94

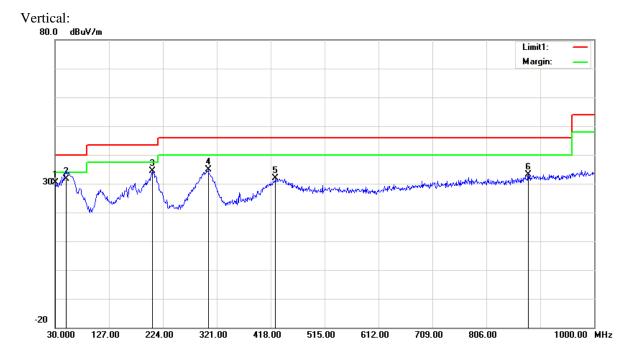
Report No.: RDG190505006-00

### 2) 30 MHz~1GHz:



Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.0000	26.15	peak	1.72	27.87	40.00	12.13
47.4600	40.49	peak	-10.36	30.13	40.00	9.87
113.4200	38.61	peak	-5.55	33.06	43.50	10.44
172.5900	41.80	peak	-6.79	35.01	43.50	8.49
211.3900	43.01	peak	-7.38	35.63	43.50	7.87
306.4500	41.47	peak	-3.68	37.79	46.00	8.21





Frequency (MHz)	Receiver Reading (dBµV)	Detector	Correction Factor (dB/m)	Cord. Amp. (dBµV/m)	Limit (dBµV/m)	Margin (dB)
30.9700	29.36	peak	0.91	30.27	40.00	9.73
50.3700	42.97	QP	-11.27	31.70	40.00	8.30
204.6000	40.93	peak	-6.57	34.36	43.50	9.14
305.4800	38.63	peak	-3.70	34.93	46.00	11.07
426.7300	33.19	peak	-1.37	31.82	46.00	14.18
881.6600	37.26	peak	-4.18	33.08	46.00	12.92

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