



**中认信通**

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



## TEST REPORT

**Applicant: Lumi Legend Corporation**

Address: 22/F., Building 1, Lisi Plaza, Huifeng East Road, Ningbo, China  
315100

**FCC ID: 2AG62STB-172**

**Product Name: RGB GAMING MONITOR RISER**

**Model Number: STB-172-01**

**Standard(s): 47 CFR Part 15, Subpart C  
ANSI C63.10-2013**

The above equipment has been tested and found compliance with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

**Report Number: CR22070061-00**

**Date Of Issue: 2022-08-29**

**Reviewed By: Sun Zhong**

*Sun Zhong*

Title: Manager

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Guangdong, China  
Tel: +86-769-82016888

**Test Facility**

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the No. 113, Pingkang Road, Dalang Town, 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. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

**Declarations**

China Certification ICT Co., Ltd (Dongguan) 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 a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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## 1. GENERAL INFORMATION

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

<b>EUT Name:</b>	RGB GAMING MONITOR RISER
<b>EUT Model:</b>	STB-172-01
<b>Operation Frequency:</b>	110-148 kHz
<b>Rated Input Voltage:</b>	Wireless charger input: DC 5V/9V/12V LED input: DC 5V
<b>Serial Number:</b>	CR22070061-RF-S1
<b>EUT Received Date:</b>	2022.07.26
<b>EUT Received Status:</b>	Good

#### Operation Frequency Detail:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	0.148	/	/

Per section 15.31(m), the lowest frequency, middle frequency, and highest frequency were performed the test as below:

Test Channel	Frequency (MHz)
1	0.148

#### Antenna Information Detail ▲:

Antenna Manufacturer	Antenna Type	input impedance (Ohm)	Antenna Gain /Frequency Range	§15.203 Requirement Compliance
Lumi Legend Corporation	Coil	50	Unknown	
The Method of §15.203 Compliance: <input checked="" type="checkbox"/> Antenna must be permanently attached to the unit. <input type="checkbox"/> Antenna must use a unique type of connector to attach to the EUT. <input type="checkbox"/> Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.				

#### Accessory Information:

No Accessory.

## 1.2 Description of Test Configuration

### 1.2.1 EUT Operation Condition:

<b>EUT Operation Mode:</b>	The system was configured for testing in Engineering Mode, which was provided by the manufacturer.
<b>Equipment Modifications:</b>	No
<b>EUT Exercise Software:</b>	No
Engineering Mode was provided by manufacturer ▲. The maximum power was configured default setting.	

### 1.2.2 Support Equipment List and Details

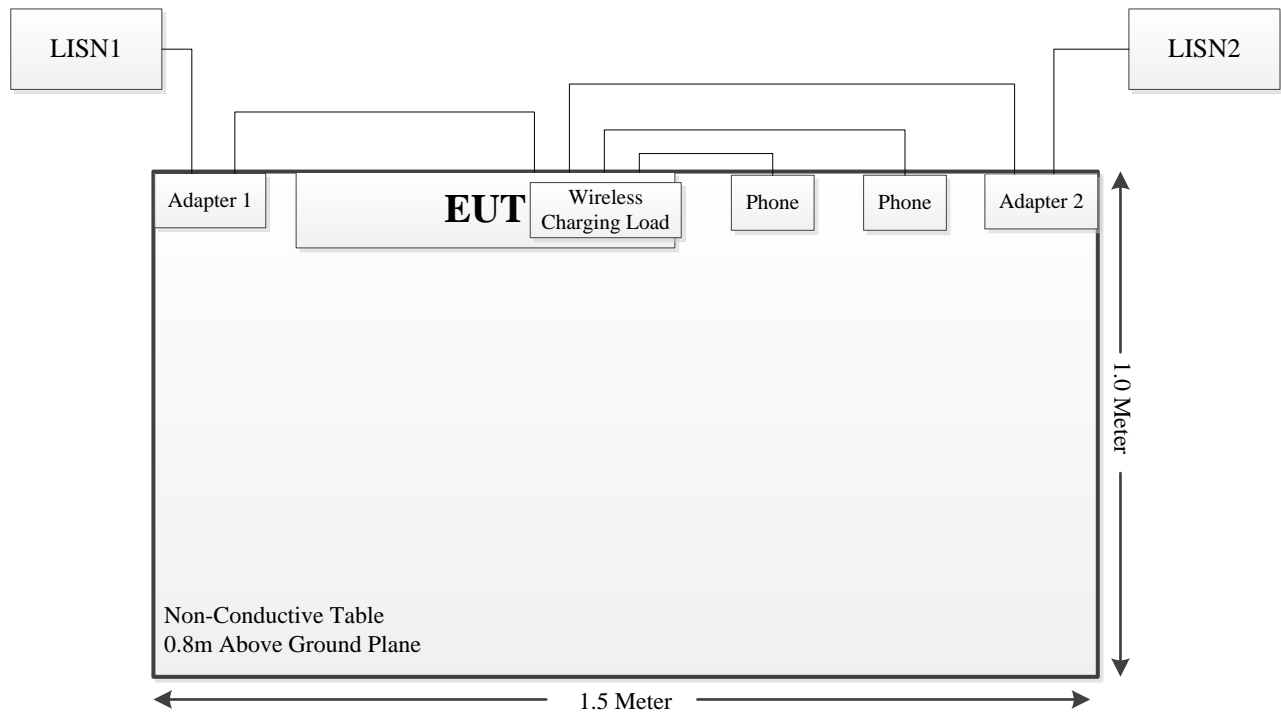
Manufacturer	Description	Model	Serial Number
Dongguan Aohai Power Technology Co.,Ltd.	Adapter 2	A8A-050200U-US1	05021895
UGREEN	Adapter 1	CD16	40715
SiLiYuan	Wireless Charging Load	MX15W	211013003
Huawei	Phone	LYA-AL00	05073085800141
XTOUCH	Phone	S40	04069092900015

### 1.2.3 Support Cable List and Details

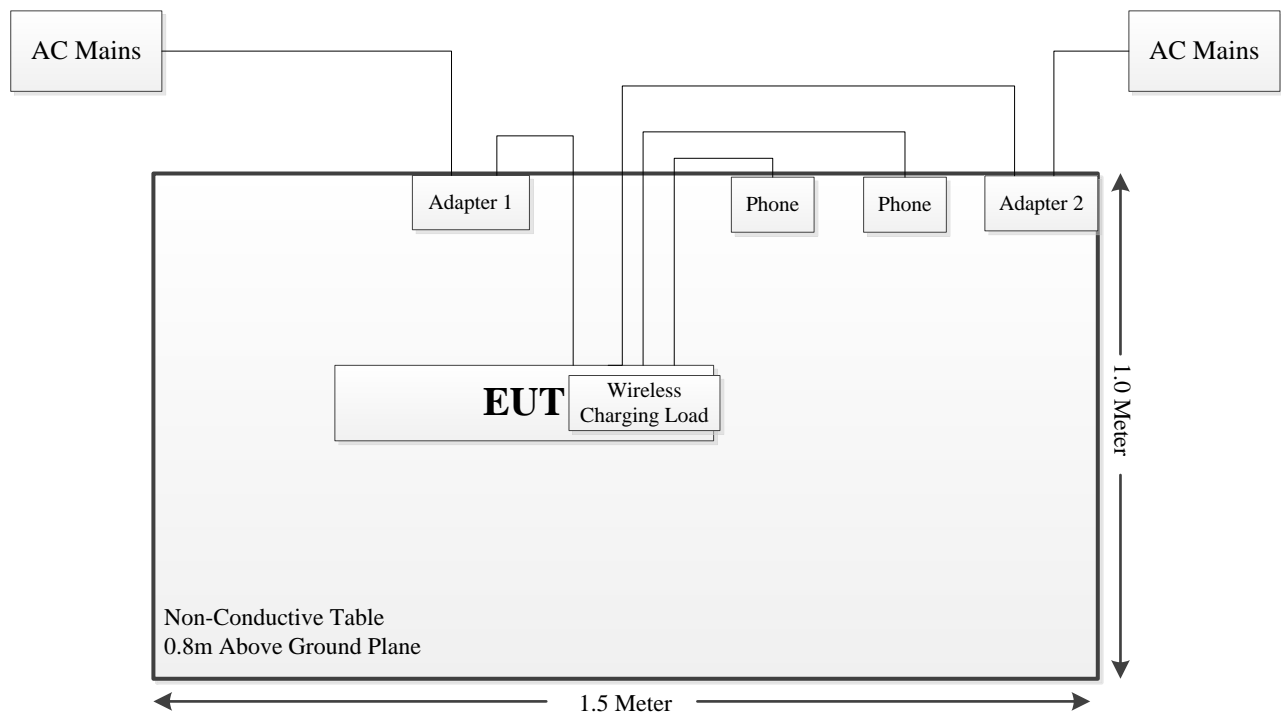
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
USB Cable	No	No	1.2	Adapter 1	EUT
USB Cable	No	No	1.5	Adapter 2	EUT
USB Cable	No	No	1	EUT	Phone
USB Cable	No	No	1	EUT	Phone

### 1.2.4 Block Diagram of Test Setup

AC Line Conducted Emission:



Radiated Emission:



### 1.3 Measurement Uncertainty

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

Parameter	Measurement Uncertainty
radiated Emissions	9kHz~30MHz: 4.12dB 30M~200MHz: 4.15 dB,200M~1GHz: 5.61 dB,1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 dB,18G~26.5G:5.47 dB,26.5G~40G:5.63 dB
Temperature	±1°C
Humidity	±5%
E-Field	1.30dB
H-Field	1.30dB
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

## 2. SUMMARY OF TEST RESULTS

Standard(s) Section	Description of Test	Result
FCC §15.207	AC Line Conducted Emission	Compliance
§15.209 §15.205	Radiated Emission Test	Compliance
FCC §15.203	Antenna Requirement	Compliance



### 3. REQUIREMENTS AND TEST PROCEDURES

#### 3.1 AC Line Conducted Emissions

##### 3.1.1 Applicable Standard

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50  $\mu$ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB $\mu$ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

\*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

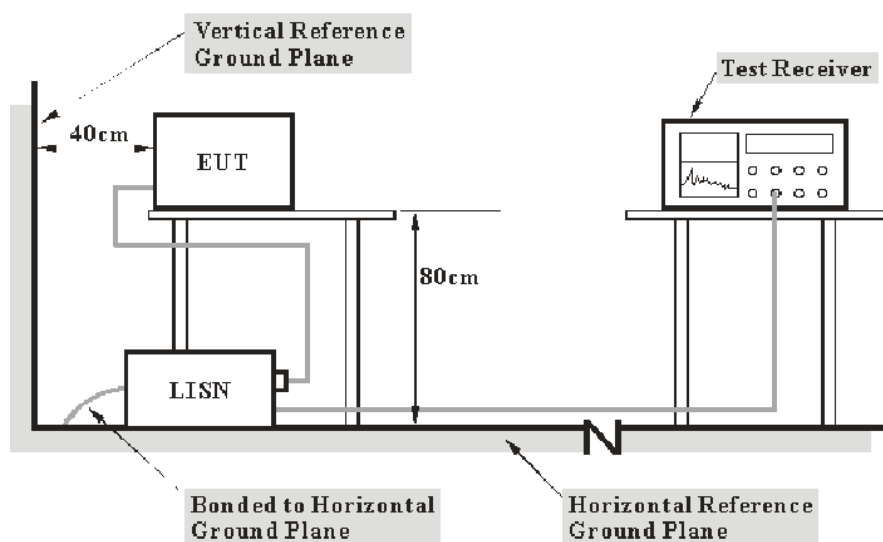
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000  $\mu$ V within the frequency band 535-1705 kHz, as measured using a 50  $\mu$ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

### 3.1.2 EUT Setup



- 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.

### 3.1.3 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

### 3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

### 3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

## 3.2 Radiation Spurious Emissions

### 3.2.1 Applicable Standard

FCC §15.209

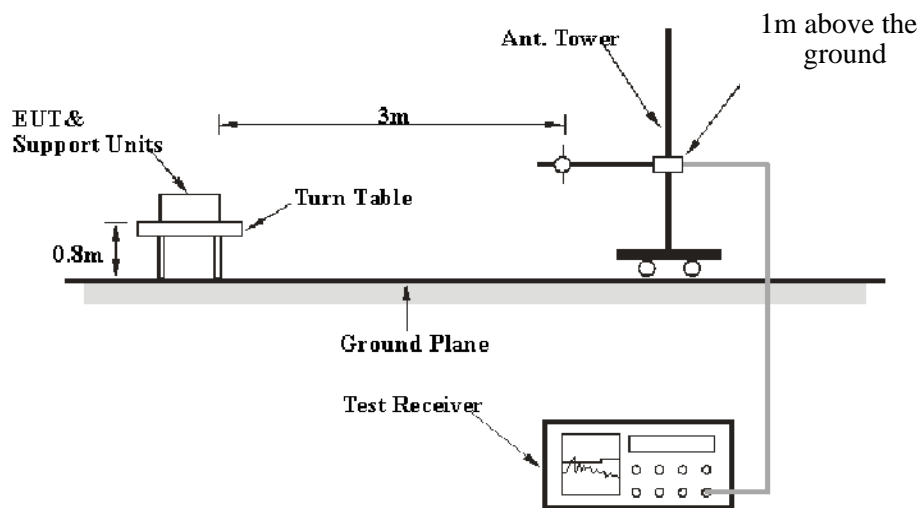
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

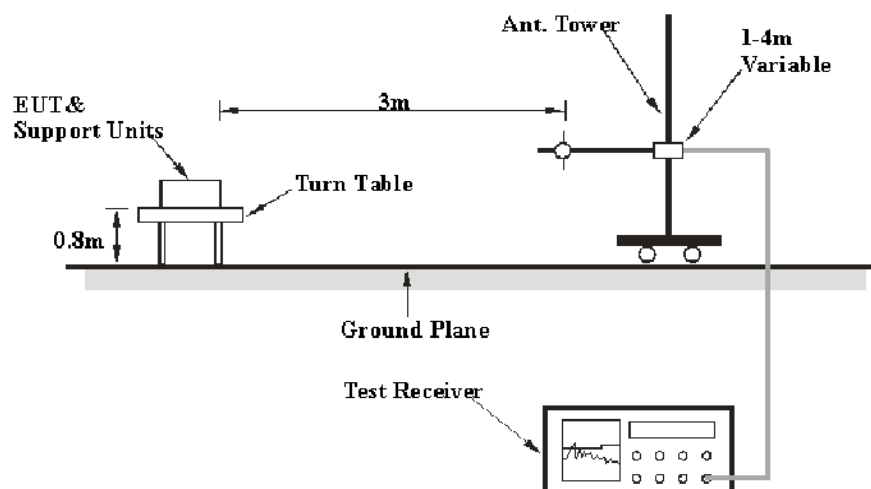
\*\*Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this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

### 3.2.2 EUT Setup

9kHz-30MHz:



30MHz-1GHz:



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 15.209 limits.

The spacing between the peripherals was 10 cm.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

### 3.2.3 EMI Test Receiver & Spectrum Analyzer 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

### 3.2.4 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor = Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

## 3.3 Antenna Requirement

### 3.3.1 Applicable Standard

FCC §15.203

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.

### 3.3.2 Judgment

Please refer to the Antenna Information detail in Section 1.

## 4. Test DATA AND RESULTS

### 4.1 AC Line Conducted Emissions

Serial Number:	CR22070061-RF -S1	Test Date:	2022-08-23
Test Site:	CE	Test Mode:	Transmitting
Tester:	Vic Du	Test Result:	Pass

#### Environmental Conditions:

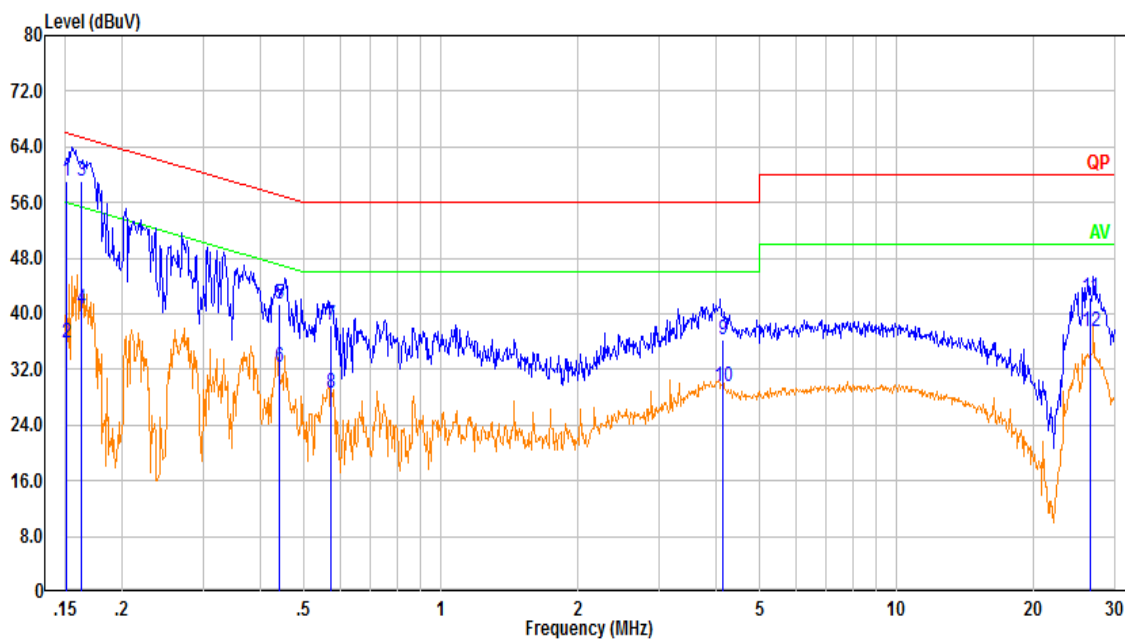
Temperature: (°C)	27	Relative Humidity: (%)	65	ATM Pressure: (kPa)	100
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#### Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	LISN	ENV216	101132	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2022-07-15	2023-07-14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2021-08-08	2022-08-07
Audix	Test Software	E3	190306 (V9)	N/A	N/A

*\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

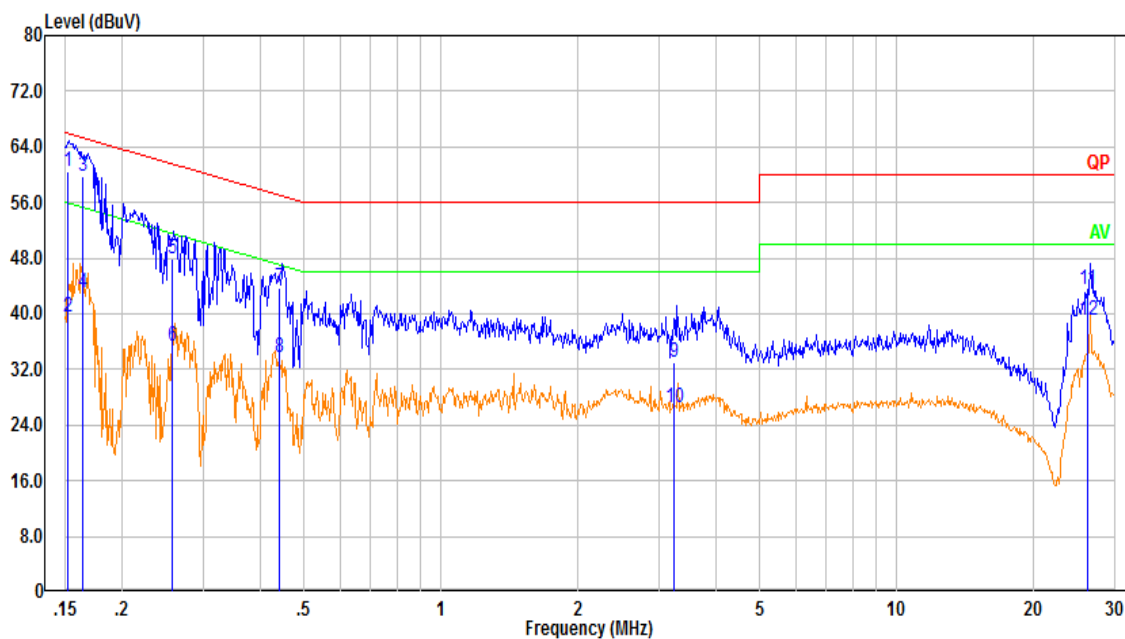
Line:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	49.41	9.61	59.02	65.97	6.95	QP
2	0.151	26.26	9.61	35.87	55.97	20.10	Average
3	0.163	49.52	9.61	59.13	65.32	6.19	QP
4	0.163	31.15	9.61	40.76	55.32	14.56	Average
5	0.441	31.81	9.61	41.42	57.04	15.61	QP
6	0.441	22.62	9.61	32.23	47.04	14.81	Average
7	0.572	28.78	9.62	38.40	56.00	17.60	QP
8	0.572	18.98	9.62	28.60	46.00	17.40	Average
9	4.143	26.73	9.65	36.38	56.00	19.62	QP
10	4.143	19.92	9.65	29.57	46.00	16.43	Average
11	26.530	32.57	9.83	42.40	60.00	17.60	QP
12	26.530	27.60	9.83	37.42	50.00	12.58	Average



Neutral:



No.	Frequency (MHz)	Reading (dBUV)	Factor (dB)	Result (dBUV)	Limit (dBUV)	Margin (dB)	Detector
1	0.152	50.90	9.61	60.51	65.90	5.39	QP
2	0.152	29.94	9.61	39.55	55.90	16.36	Average
3	0.164	50.21	9.61	59.82	65.28	5.46	QP
4	0.164	33.51	9.61	43.12	55.28	12.16	Average
5	0.257	38.33	9.61	47.94	61.51	13.57	QP
6	0.257	25.84	9.61	35.45	51.51	16.06	Average
7	0.441	34.15	9.61	43.76	57.04	13.28	QP
8	0.441	24.01	9.61	33.62	47.04	13.41	Average
9	3.250	23.41	9.65	33.06	56.00	22.94	QP
10	3.250	16.97	9.65	26.62	46.00	19.38	Average
11	26.260	33.70	9.79	43.49	60.00	16.51	QP
12	26.260	29.33	9.79	39.12	50.00	10.88	Average

## 4.2 Radiation Spurious Emissions

Serial Number:	CR22070061-RF -S1	Test Date:	2022-08-23
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Carl Xue	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	27.3	Relative Humidity: (%)	67	ATM Pressure: (kPa)	100
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**Test Equipment List and Details:**

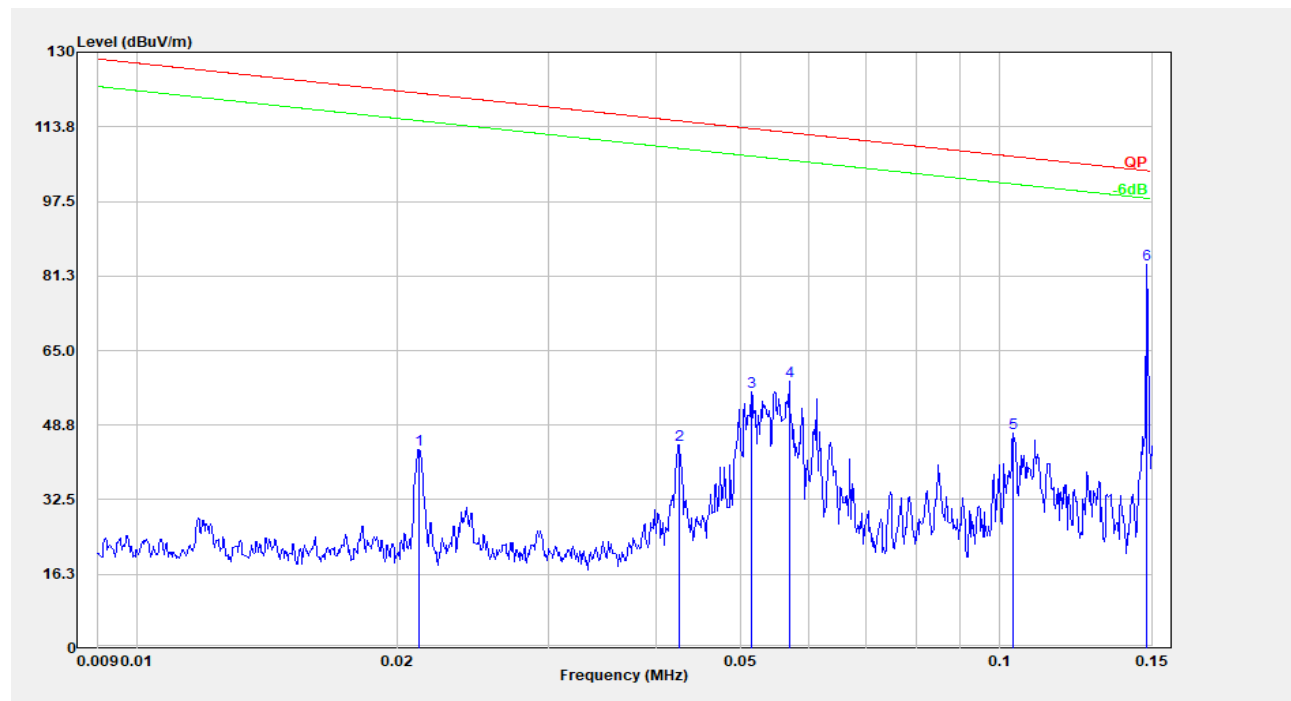
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	HF Loop Antenna	HLA6120	33561	2021-02-03	2024-02-02
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2022-07-15	2023-07-14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022-07-17	2023-07-16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022-07-17	2023-07-16
Sonoma	Amplifier	310N	186165	2022-07-17	2023-07-16
Audix	Test Software	E3	201021 (V9)	N/A	N/A

*\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:**

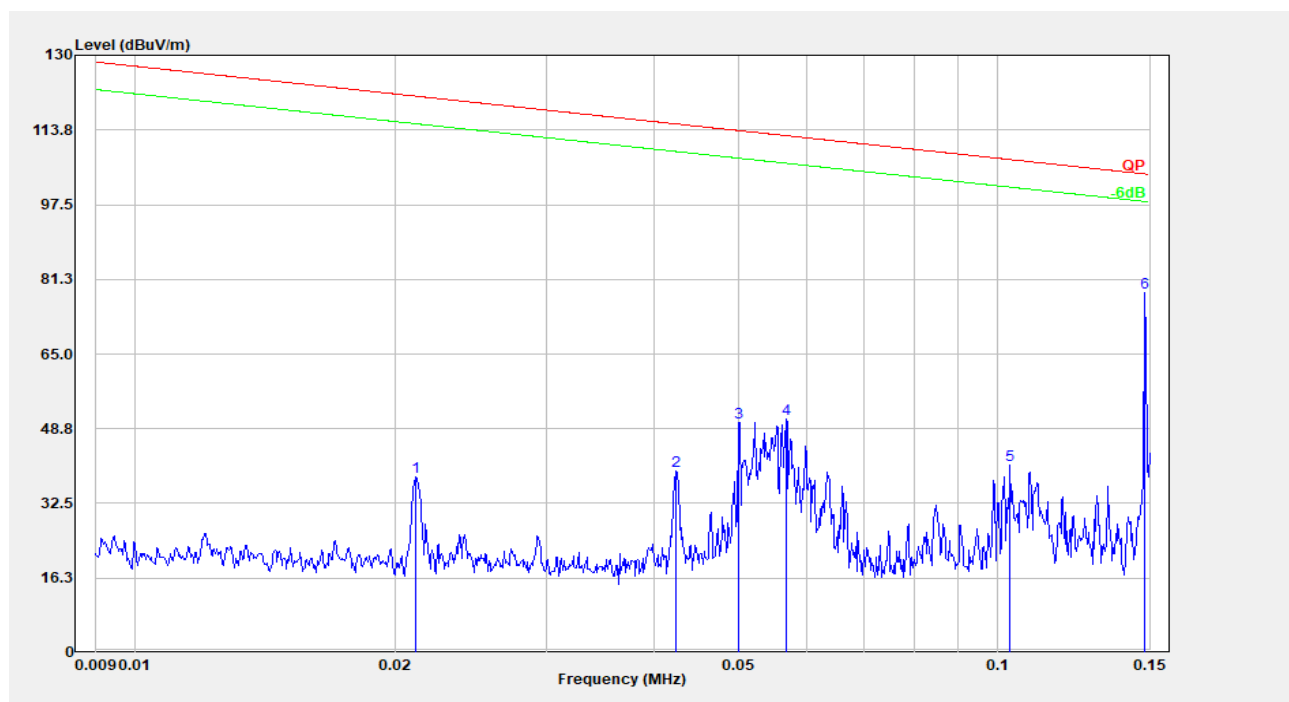
1) 9-150 kHz:

Parallel



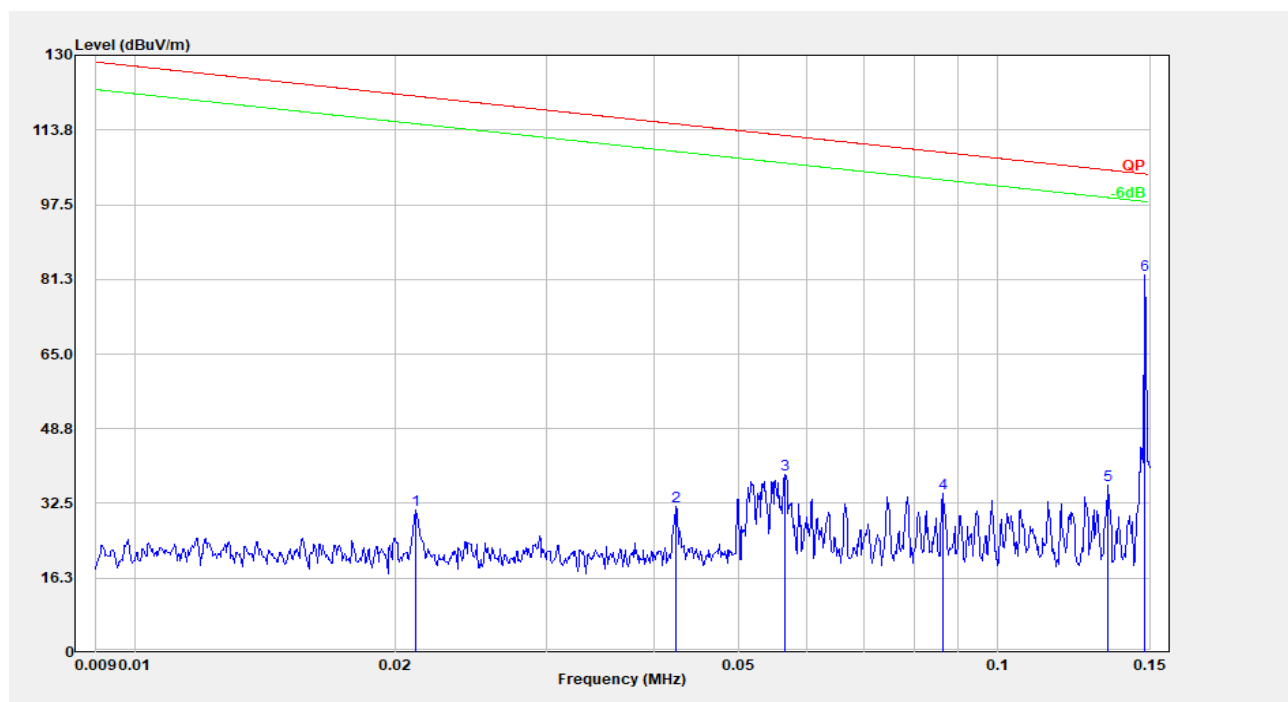
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.021	22.93	20.49	43.41	121.07	77.65	Peak
2	0.043	24.01	20.41	44.42	115.03	70.61	Peak
3	0.051	35.61	20.41	56.02	113.37	57.35	Peak
4	0.057	37.99	20.41	58.40	112.49	54.08	Peak
5	0.104	26.89	20.22	47.11	107.28	60.18	Peak
6	0.148	63.60	20.22	83.82	104.18	20.36	Peak

## Perpendicular



No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	0.021	17.84	20.49	38.33	121.09	82.76	Peak
2	0.042	19.05	20.41	39.46	115.05	75.60	Peak
3	0.050	29.65	20.41	50.06	113.61	63.56	Peak
4	0.057	30.52	20.41	50.93	112.51	61.59	Peak
5	0.103	20.60	20.22	40.82	107.31	66.49	Peak
6	0.148	58.26	20.22	78.48	104.18	25.70	Peak

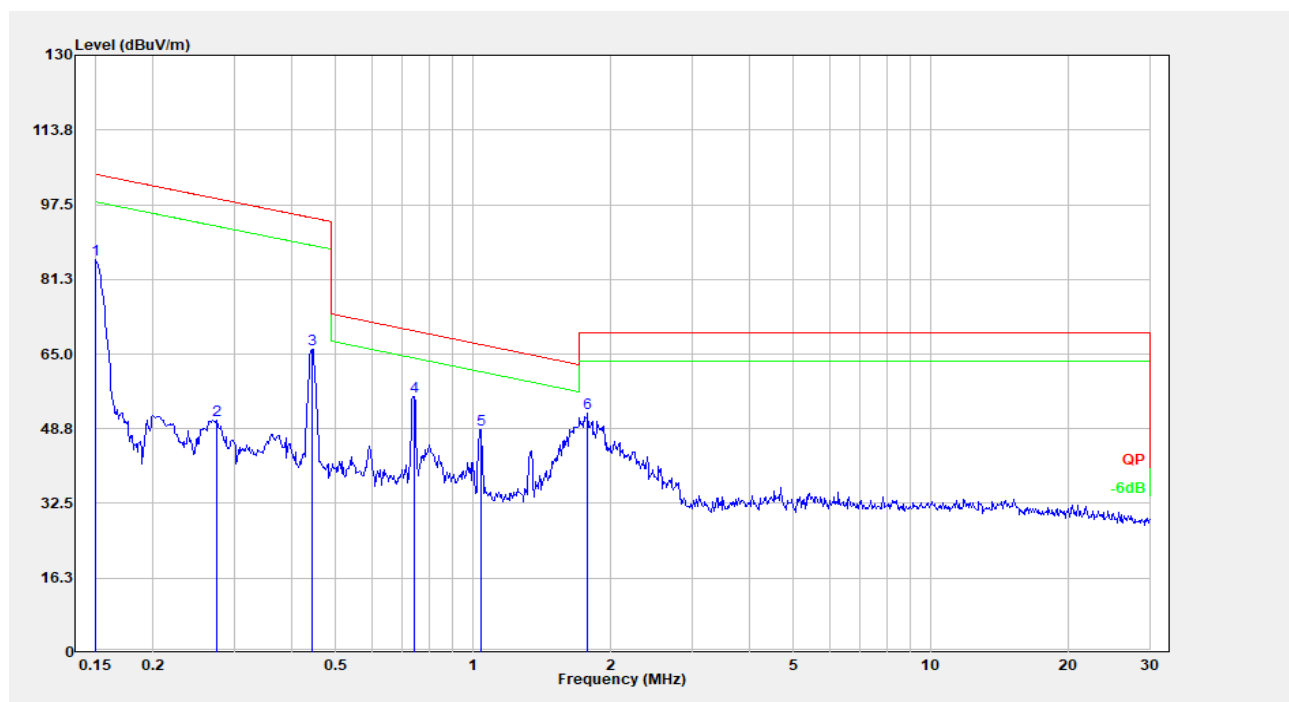
## Ground-parallel



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.021	10.59	20.49	31.08	121.12	90.04	Peak
2	0.042	11.46	20.41	31.87	115.05	83.18	Peak
3	0.057	18.27	20.41	38.68	112.54	73.86	Peak
4	0.086	14.39	20.31	34.70	108.87	74.18	Peak
5	0.134	16.38	20.22	36.60	105.04	68.44	Peak
6	0.148	61.99	20.22	82.21	104.18	21.97	Peak

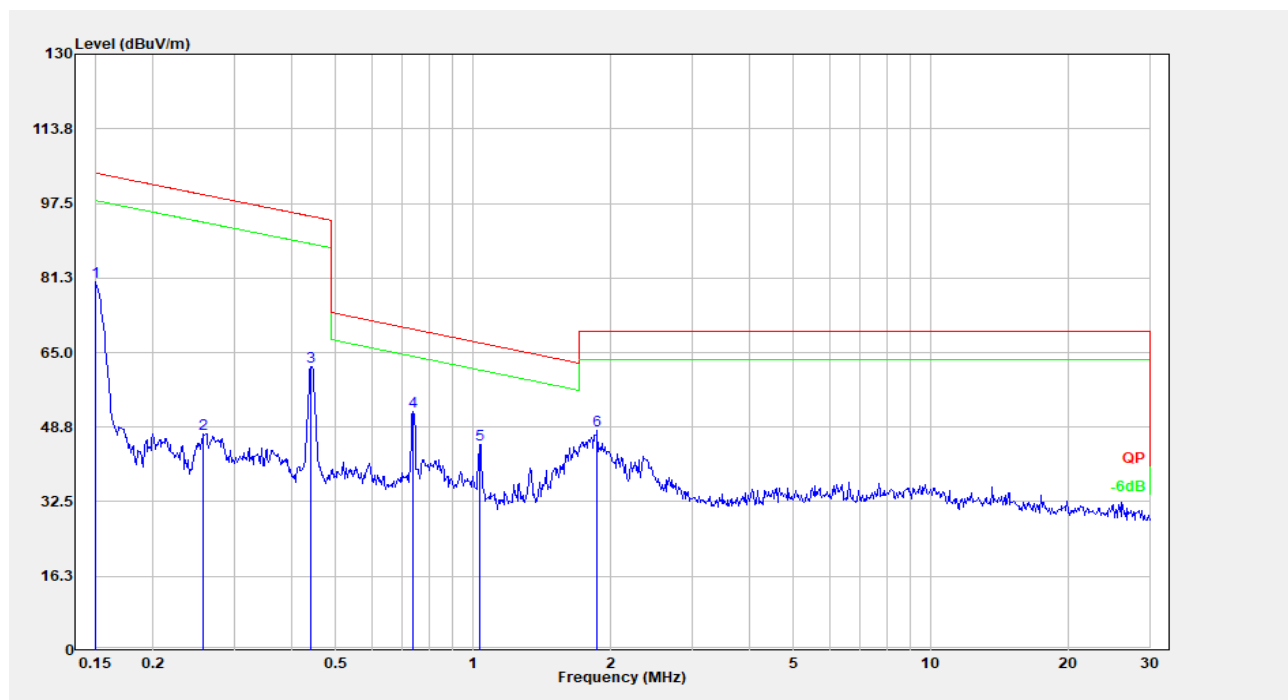
## 2) 150kHz-30 MHz:

Parallel



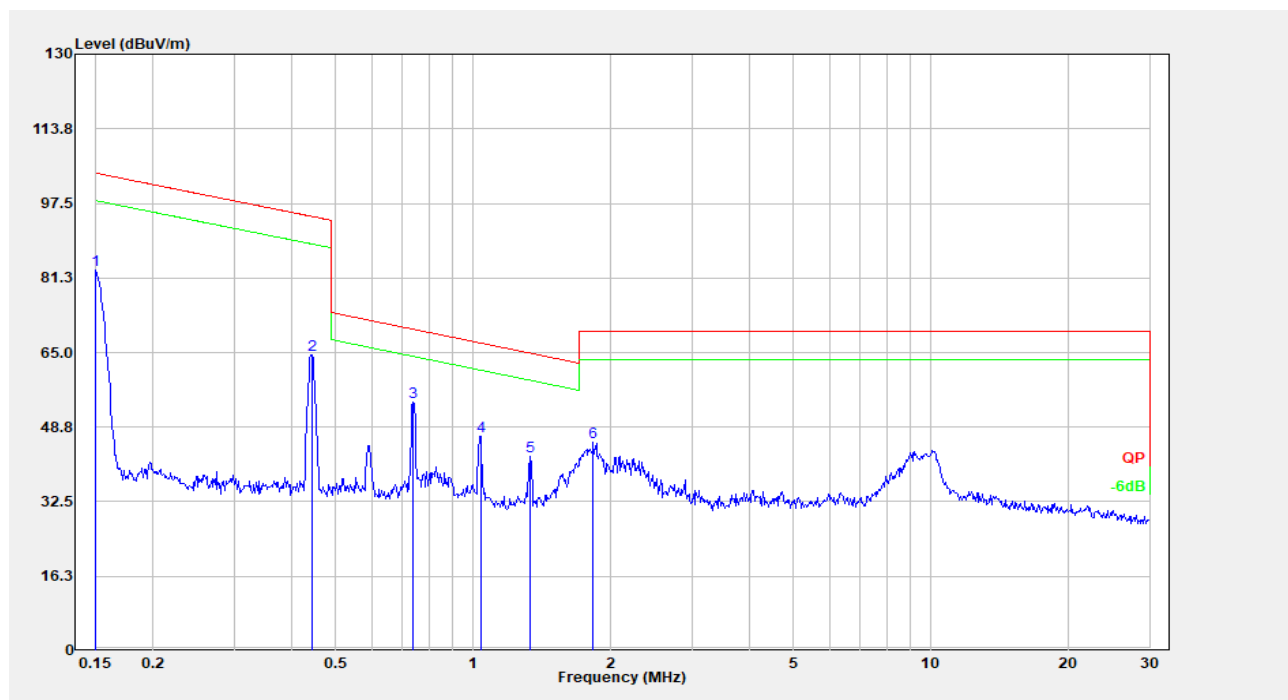
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	0.150	65.43	20.22	85.65	104.08	18.43	Peak
2	0.274	30.48	20.12	50.60	98.84	48.24	Peak
3	0.444	45.98	20.05	66.03	94.65	28.62	Peak
4	0.743	35.81	20.03	55.84	70.11	14.27	Peak
5	1.037	28.62	20.02	48.64	67.15	18.51	Peak
6	1.781	32.26	19.95	52.21	69.54	17.33	Peak

## Perpendicular



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.150	60.15	20.22	80.37	104.08	23.71	Peak
2	0.258	27.06	20.12	47.18	99.39	52.21	Peak
3	0.442	41.97	20.05	62.02	94.69	32.67	Peak
4	0.739	32.09	20.03	52.12	70.15	18.03	Peak
5	1.032	24.91	20.02	44.93	67.19	22.26	Peak
6	1.868	28.16	19.96	48.12	69.54	21.42	Peak

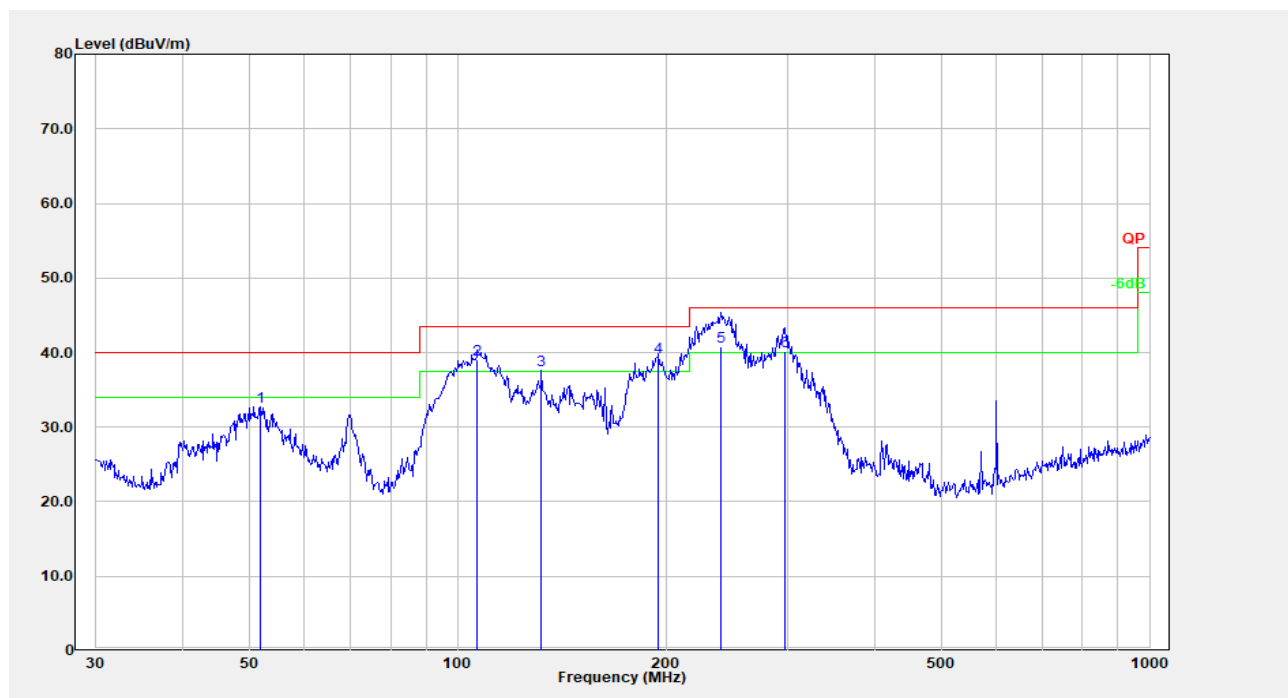
## Ground-parallel



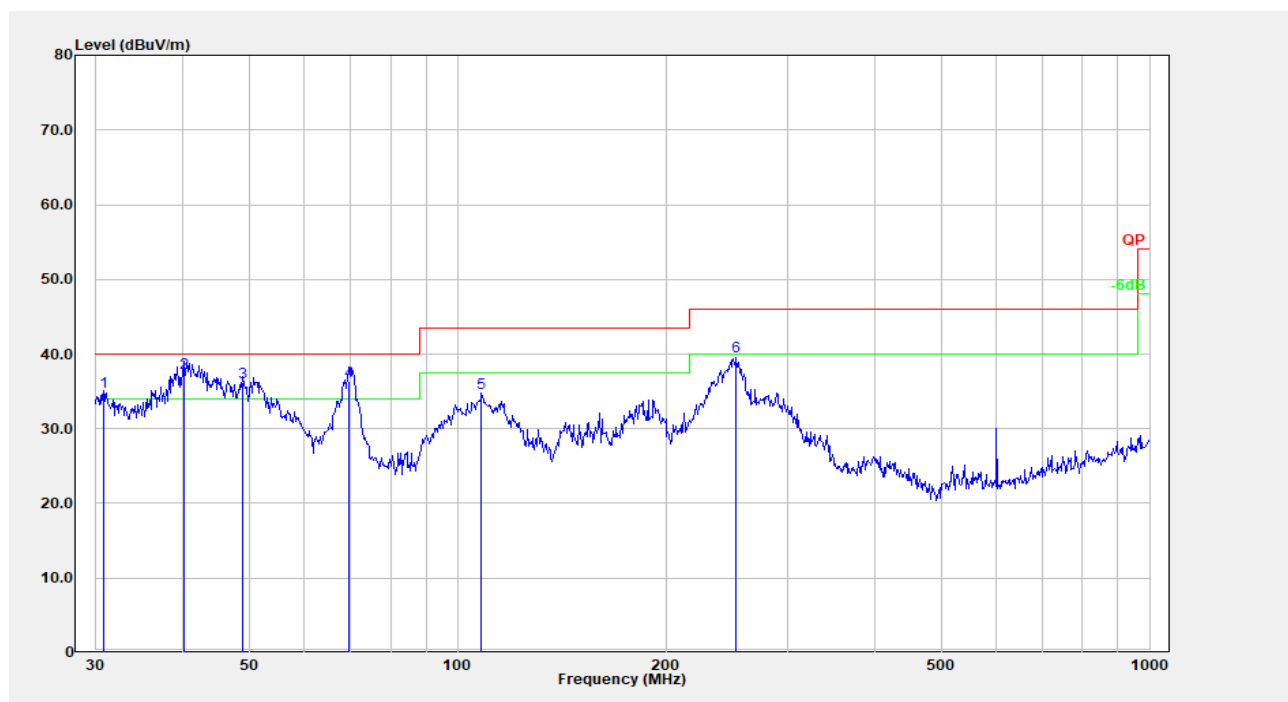
No.	Frequency (MHz)	Reading (dBUV)	Factor (dB/m)	Result (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector
1	0.150	62.68	20.22	82.90	104.08	21.18	Peak
2	0.444	44.55	20.05	64.60	94.65	30.05	Peak
3	0.739	34.18	20.03	54.21	70.15	15.94	Peak
4	1.037	26.79	20.02	46.81	67.15	20.34	Peak
5	1.331	22.45	19.97	42.42	64.94	22.52	Peak
6	1.829	25.43	19.95	45.38	69.54	24.16	Peak



## 3)30MHz- 1GHz

**Horizontal:**

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	51.843	50.18	-17.43	32.75	40.00	7.25	Peak
2	106.759	52.35	-13.22	39.13	43.50	4.37	QP
3	132.221	49.31	-11.68	37.63	43.50	5.87	Peak
4	195.137	52.21	-12.91	39.30	43.50	4.20	QP
5	239.987	53.90	-13.17	40.73	46.00	5.27	QP
6	297.224	51.06	-10.88	40.18	46.00	5.82	QP

**Vertical:**

No.	Frequency (MHz)	Reading (dB $\mu$ V)	Factor (dB/m)	Result (dB $\mu$ V/m)	Limit (dB $\mu$ V/m)	Margin (dB)	Detector
1	30.745	39.33	-4.36	34.97	40.00	5.03	QP
2	40.276	49.14	-11.69	37.45	40.00	2.55	QP
3	48.843	52.93	-16.72	36.21	40.00	3.79	QP
4	69.600	53.09	-16.76	36.33	40.00	3.67	QP
5	108.267	47.65	-12.91	34.74	43.50	8.76	Peak
6	252.948	52.74	-13.10	39.64	46.00	6.36	QP

## 5 MAXIMUM PERMISSIBLE EXPOSURE (MPE)

### 5.1 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.

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/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

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

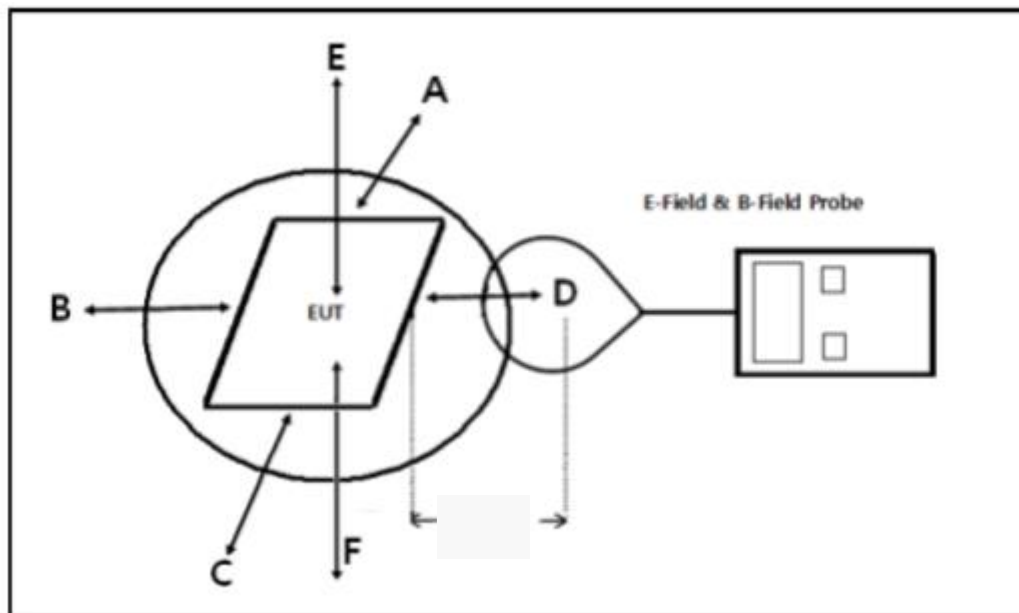
According with KDB 680106 D01 RF Exposure Wireless Charging Apps v03r01 clause 3 c)

- 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 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.

## 5.2 Block Diagram of Test Setup



Note: 20 cm for Top test.

**5.3 Test Data:**

Serial Number:	CR22070061-RF -S1	Test Date:	2022-08-11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ted Min	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	26.8	Relative Humidity: (%)	57	ATM Pressure: (kPa)	100.3
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Narda	Electric and Magnetic Field Probe-Analyzer	EHP-200AC	180ZX10204	2021-06-07	2024-06-06

*\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

**Test Data:****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 (A/m)
110-148	0.176	0.1789	0.1845	0.3435	0.6775	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 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 (V/m)
110-148	1.0249	0.3578	0.9766	2.5006	4.5358	307	614

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 v03r01 clause 5 b:**

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

Yes, the operation frequency is 110-148 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 **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.

The transfer system includes only single primary coil, and system 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.

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