



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: INFINIX MOBILITY LIMITED

Address: FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT, Hong Kong

FCC ID: 2AIZN-YY5-X6853

Product Name: Mobile Phone

**Standard(s): 47 CFR Part 15, Subpart C
ANSI C63.10-2013
KDB 680106 D01 Wireless Power Transfer v04**

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

Report Number: CR231061510-00F

Date Of Issue: 2024/1/8

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Calvin Chen

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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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CONTENTS

DOCUMENT REVISION HISTORY	4
1. GENERAL INFORMATION.....	5
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	5
1.2 DESCRIPTION OF TEST CONFIGURATION	6
1.2.1 EUT Operation Condition:.....	6
1.2.2 Support Equipment List and Details	6
1.2.3 Support Cable List and Details	6
1.2.4 Block Diagram of Test Setup.....	6
1.3 MEASUREMENT UNCERTAINTY	7
2. SUMMARY OF TEST RESULTS	8
3. REQUIREMENTS AND TEST PROCEDURES	9
3.1 AC LINE CONDUCTED EMISSIONS	9
3.1.1 Applicable Standard.....	9
3.1.2 EUT Setup.....	10
3.1.3 EMI Test Receiver Setup	10
3.1.4 Test Procedure	11
3.1.5 Corrected Amplitude & Margin Calculation.....	11
3.2 RADIATION SPURIOUS EMISSIONS	12
3.2.1 Applicable Standard.....	12
3.2.2 EUT Setup.....	12
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	13
3.2.4 Corrected Amplitude & Margin Calculation.....	13
3.3 20 DB EMISSION BANDWIDTH:	14
3.3.1 Applicable Standard.....	14
3.3.2 EUT Setup.....	14
3.3.3 Test Procedure	14
3.4 ANTENNA REQUIREMENT	15
3.4.1 Applicable Standard.....	15
3.4.2 Judgment.....	15
4. TEST DATA AND RESULTS.....	16
4.1 AC LINE CONDUCTED EMISSIONS	16
4.2 RADIATION SPURIOUS EMISSIONS	17
4.3 20 DB EMISSION BANDWIDTH	34
5 MAXIMUM PERMISSIBLE EXPOSURE (MPE)	36
5.1 APPLICABLE STANDARD.....	36
5.2 BLOCK DIAGRAM OF TEST SETUP	36
5.3 TEST PROCEDURES	37
5.4 TEST DATA:	38
6. EUT PHOTOGRAPHS	39
7. TEST SETUP PHOTOGRAPHS	40

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	CR231061510-00F	Original Report	2024/1/8

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Mobile Phone
Trade Name:	Infinix
EUT Model:	X6853
Operation Frequency:	Normal: 117 kHz Lighting: 116 kHz
Rated Input Voltage:	DC 5-11V from adapter or DC 3.91V from battery
Wireless Output:	5 Watts
Serial Number:	2CIM-5(Normal),2CIM-6(Lighting)
EUT Received Date:	2023/10/18
EUT Received Status:	Good

Note: The EUT supply with two adapters, the worst case adapter was selected to test for radiated emission below 1GHz according to DSS report test result.

Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
Coil	50	110-205 kHz	Unknown

The Method of §15.203 Compliance:

- Antenna was permanently attached to the unit.
 Antenna use a unique type of connector to attach to the EUT.
 Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Accessory Information:

Accessory Description	Manufacturer	Model	Parameters	S/N
Adapter 1	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	AH07019153927
Adapter 2	Infinix	U450XSB	Input: 100-240V~50/60Hz 1.8A Output: 5.0V 3.0A 15W or 5.0-10.0V 4.5A or 11.0V 4.1A 45.0W MAX	KX07019453A12

1.2 Description of Test Configuration

1.2.1 EUT Operation Condition:

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

1.2.2 Support Equipment List and Details

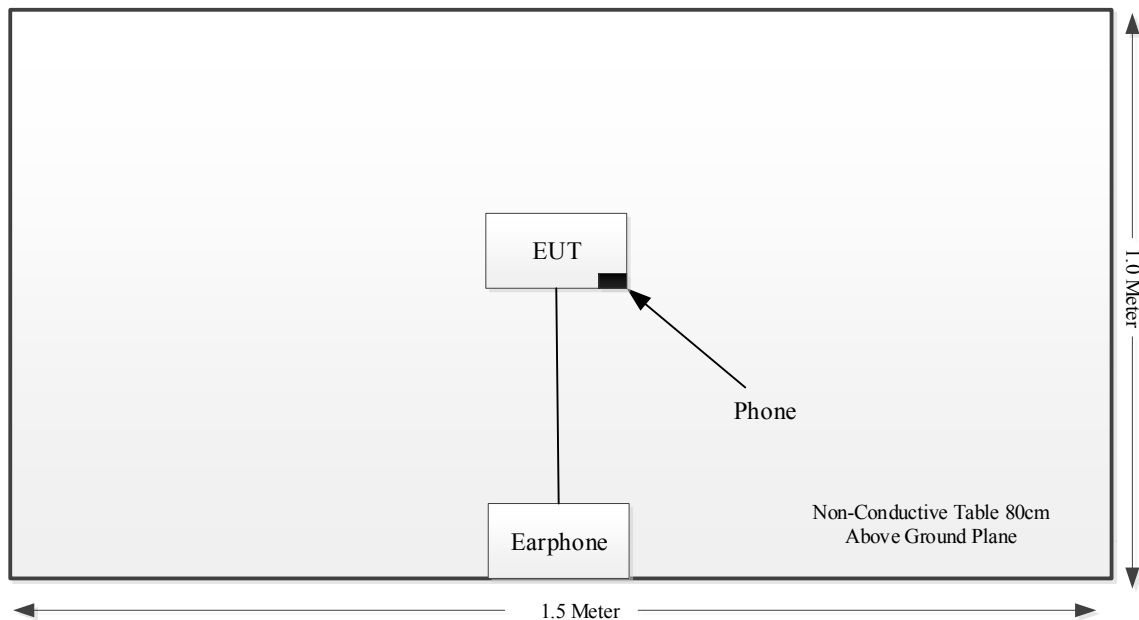
Manufacturer	Description	Model	Serial Number
Unknown	Earphone	Unknown	Unknown
Infinix	Phone	X6850	351452760010346

1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Earphone Cable	NO	NO	1.0	EUT	Earphone

1.2.4 Block Diagram of Test Setup

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℃
Humidity	±5%
DC and low frequency voltages	±0.4%
Duty Cycle	1%
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	Not Applicable
FCC§15.209 §15.205	Radiated Emission Test	Compliant
FCC§15.215	20 dB Emission Bandwidth	Compliant
FCC§15.203	Antenna Requirement	Compliant
FCC§1.1310 §2.1093	Maximum Permissible Exposure (MPE)	Compliant

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 μ 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 μ 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:

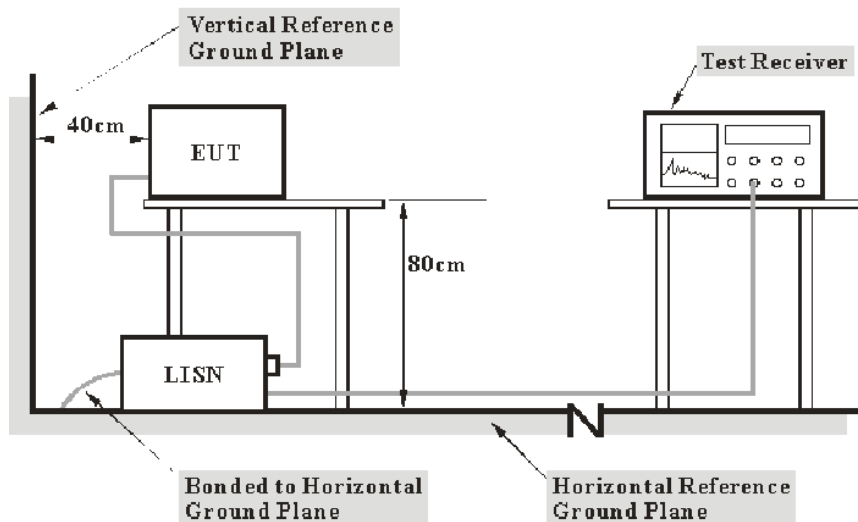
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ 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.

The adapter or EUT was connected to the main LISN with a 125 V/60 Hz AC power source.

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

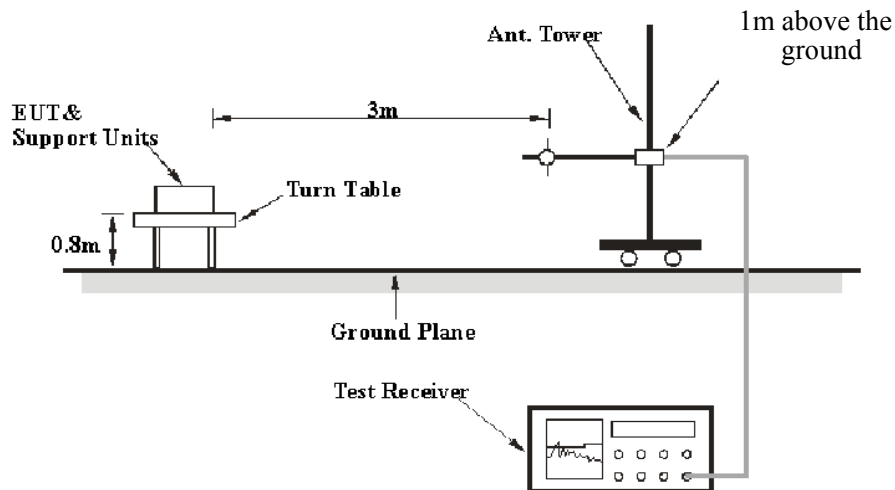
(a) Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

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

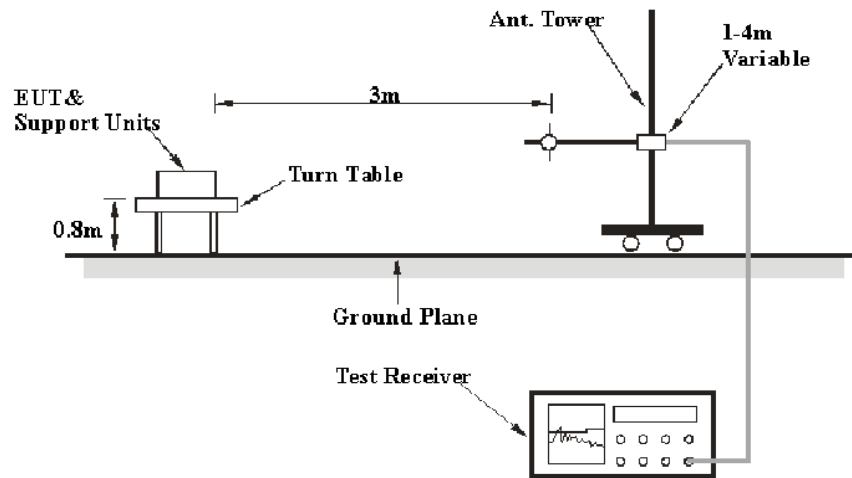
**Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this 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	100 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

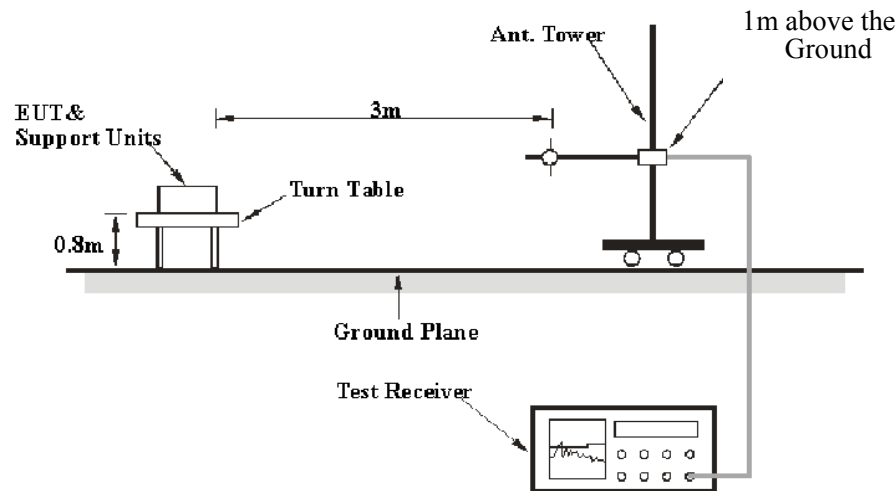
3.3 20 dB Emission Bandwidth:

3.3.1 Applicable Standard

FCC §15.215

Intentional radiators operating under the alternative provisions to the general emission limits, as contained in §15.217 through § 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of band operation.

3.3.2 EUT Setup



3.3.3 Test Procedure

1. Position the EUT on the test table without connection to measurement instrument. Turn on the EUT. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
2. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
3. Measure the 99% Occupied bandwidth use the 99% Occupied bandwidth function of the test equipment.

3.4 Antenna Requirement

3.4.1 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.

3.4.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. Test DATA AND RESULTS

4.1 AC Line Conducted Emissions

Not Applicable, the device was powered by battery when wireless charging for other phone.

4.2 Radiation Spurious Emissions

Serial Number:	2CIM-5, 2CIM-6	Test Date:	2023/11/30~2023/12/17
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Jeff Luo, Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~25.3	Relative Humidity: (%)	40~45	ATM Pressure: (kPa)	101.3~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600- UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
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:

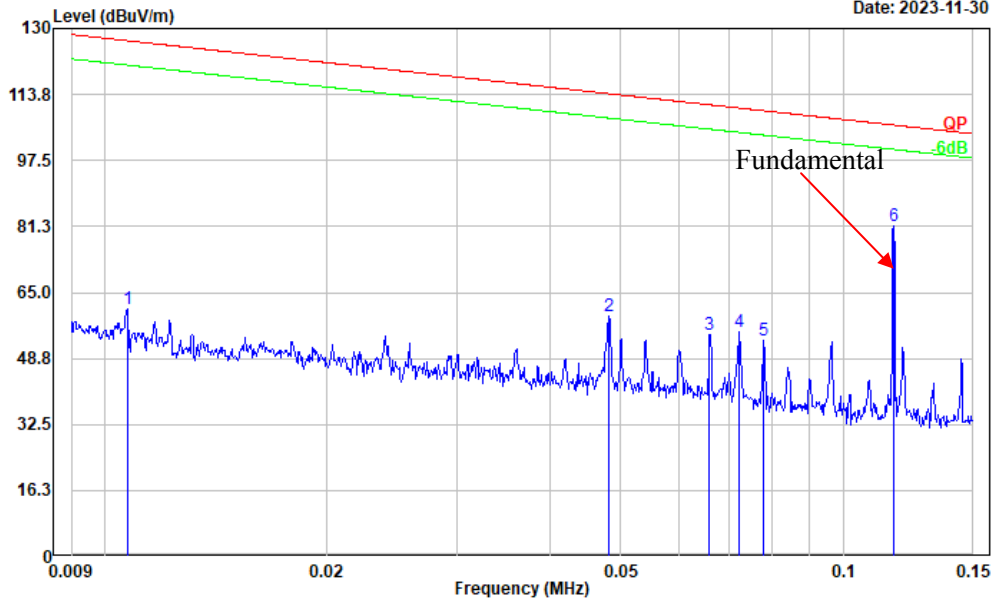
Please refer to the below table and plots.

After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Normal:
1)9kHz- 30MHz
Parallel:

Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Parallel
 Note:

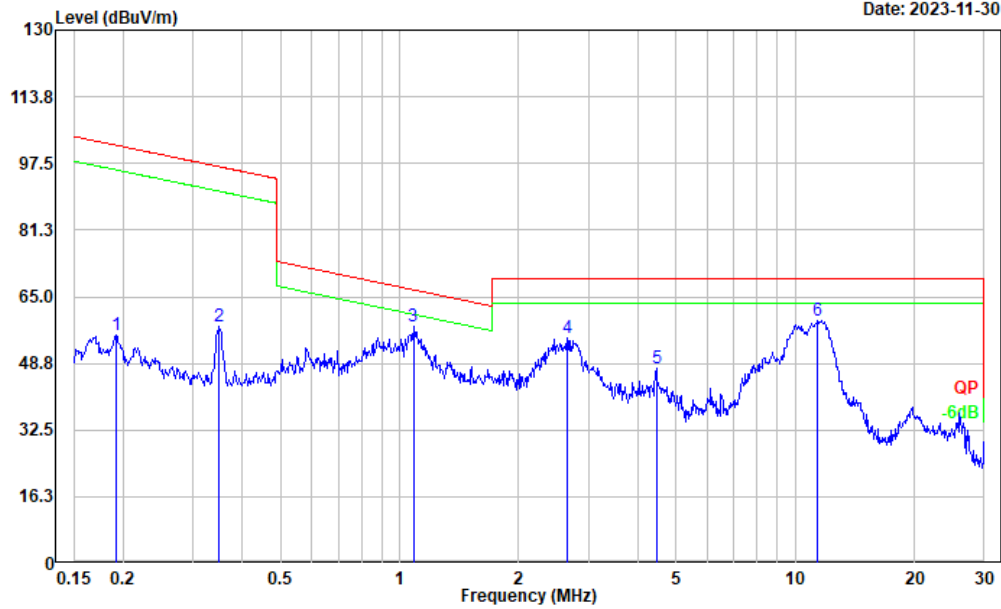
Date: 2023-11-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.011	2.83	58.04	60.87	127.00	66.13	Peak
2	0.048	16.03	43.20	59.23	113.96	54.73	Peak
3	0.066	14.14	40.58	54.72	111.22	56.50	Peak
4	0.072	15.49	39.69	55.18	110.41	55.23	Peak
5	0.078	14.32	38.91	53.23	109.75	56.52	Peak
6	0.117	45.53	35.85	81.38	106.23	24.85	Peak

Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Parallel
 Note:

Date: 2023-11-30

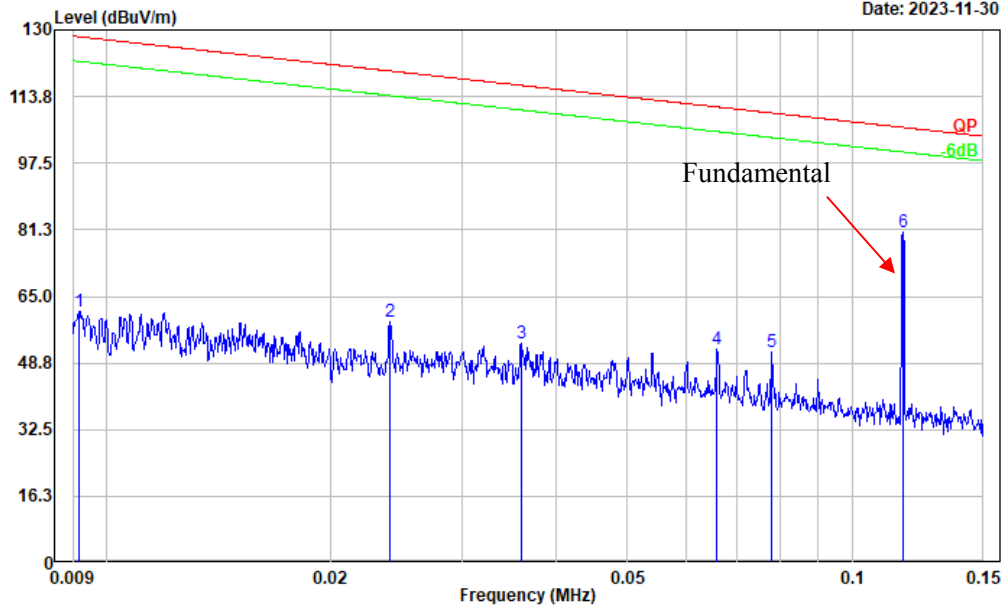


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.192	23.41	32.29	55.70	101.92	46.22	Peak
2	0.350	31.63	26.11	57.74	96.72	38.98	Peak
3	1.082	41.11	16.50	57.61	66.77	9.16	Peak
4	2.650	44.96	9.83	54.79	69.54	14.75	Peak
5	4.454	41.37	6.10	47.47	69.54	22.07	Peak
6	11.377	56.45	2.76	59.21	69.54	10.33	Peak

Perpendicular:

Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Perpendicular
 Note:

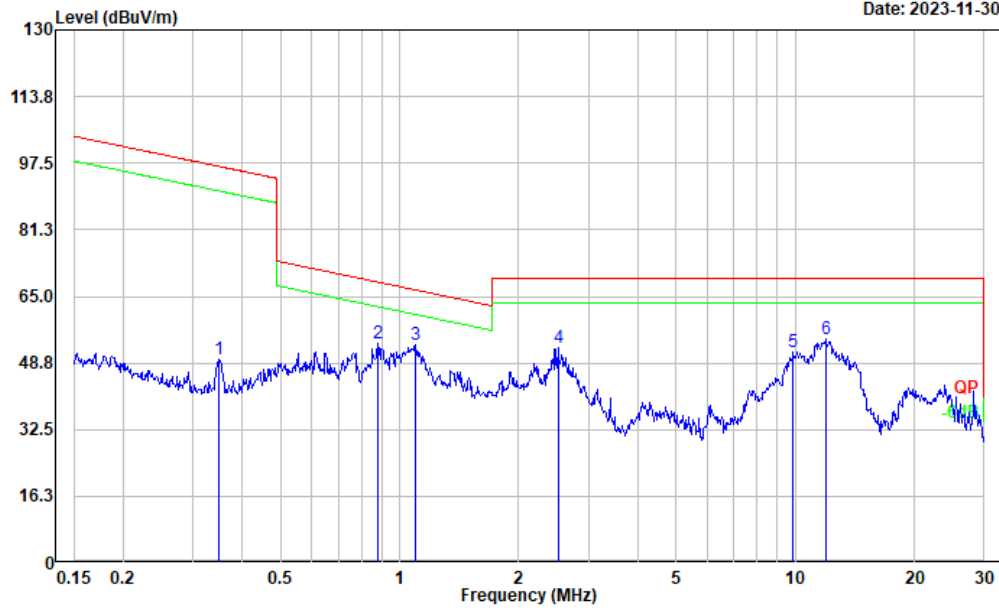
Date: 2023-11-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	1.80	59.47	61.27	128.35	67.08	Peak
2	0.024	8.33	50.37	58.70	119.99	61.29	Peak
3	0.036	7.61	45.91	53.52	116.47	62.95	Peak
4	0.066	11.69	40.58	52.27	111.22	58.95	Peak
5	0.078	12.52	38.91	51.43	109.75	58.32	Peak
6	0.117	44.67	35.85	80.52	106.23	25.71	Peak

Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Perpendicular
 Note:

Date: 2023-11-30

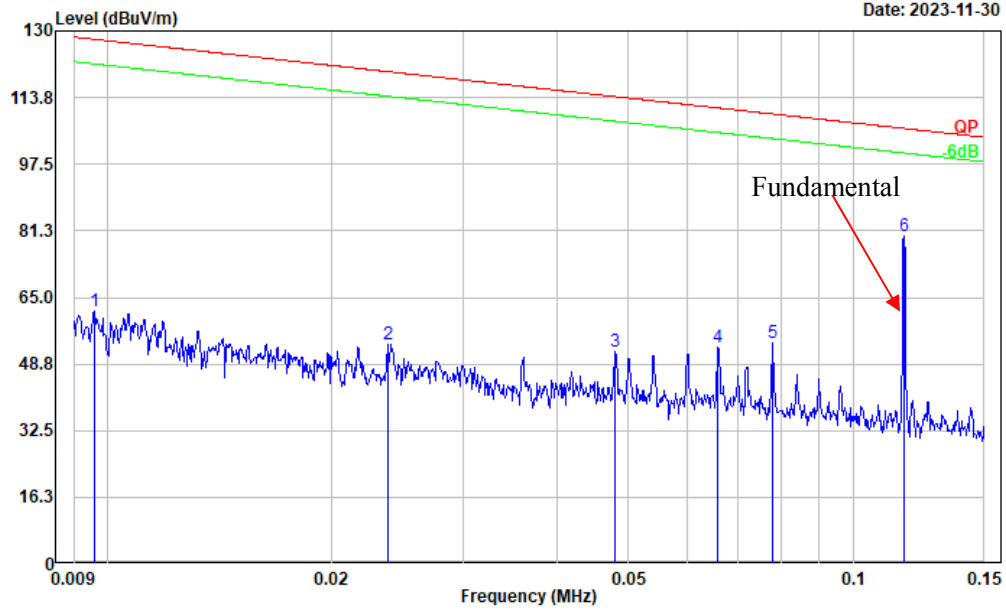


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.348	23.36	26.14	49.50	96.76	47.26	Peak
2	0.880	35.49	18.10	53.59	68.60	15.01	Peak
3	1.100	36.74	16.40	53.14	66.63	13.49	Peak
4	2.513	42.19	10.16	52.35	69.54	17.19	Peak
5	9.861	48.49	2.99	51.48	69.54	18.06	Peak
6	11.933	51.78	2.69	54.47	69.54	15.07	Peak

Ground-parallel:

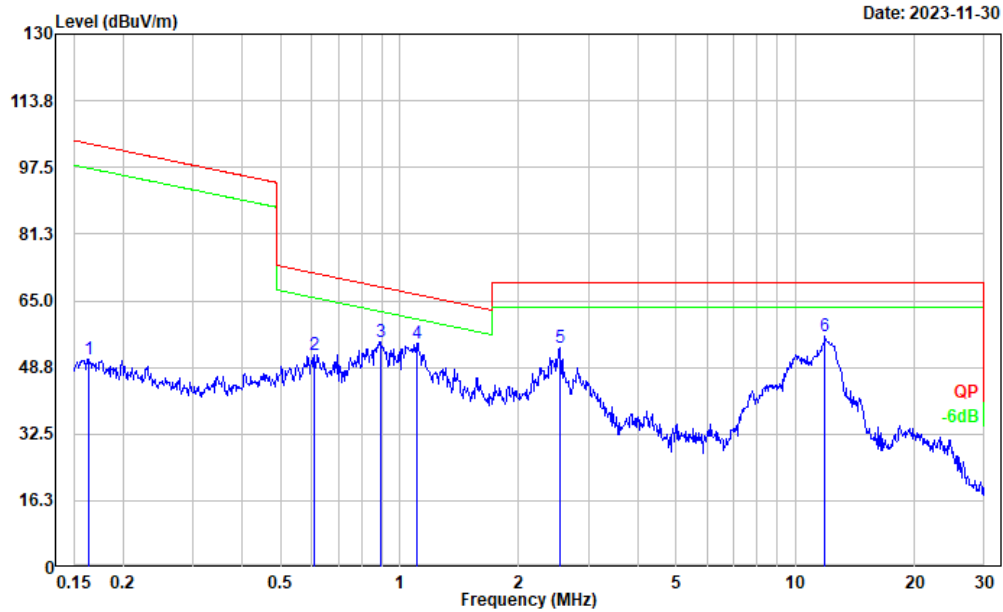
Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Ground-parallel
 Note:

Date: 2023-11-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	2.60	58.97	61.57	127.96	66.39	Peak
2	0.024	3.10	50.50	53.60	120.09	66.49	Peak
3	0.048	8.46	43.23	51.69	113.98	62.29	Peak
4	0.066	12.40	40.58	52.98	111.22	58.24	Peak
5	0.078	14.87	38.91	53.78	109.75	55.97	Peak
6	0.117	44.23	35.85	80.08	106.23	26.15	Peak

Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: Ground-parallel
 Note:

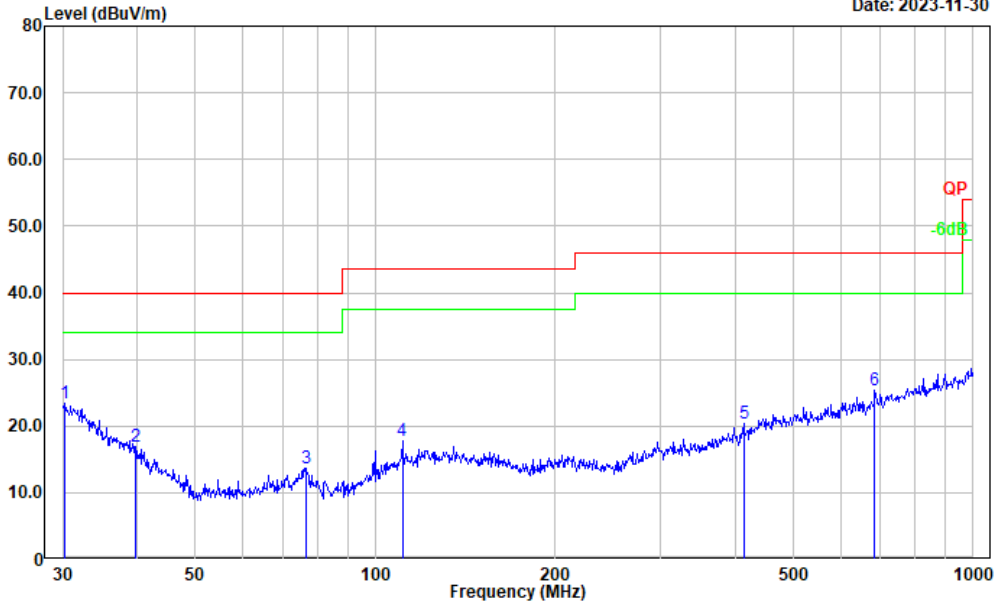


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.164	17.02	33.62	50.64	103.30	52.66	Peak
2	0.611	30.54	21.35	51.89	71.85	19.96	Peak
3	0.899	37.11	17.92	55.03	68.42	13.39	Peak
4	1.106	38.38	16.38	54.76	66.58	11.82	Peak
5	2.540	43.39	10.10	53.49	69.54	16.05	Peak
6	11.870	53.54	2.70	56.24	69.54	13.30	Peak

2) 30MHz-1GHz

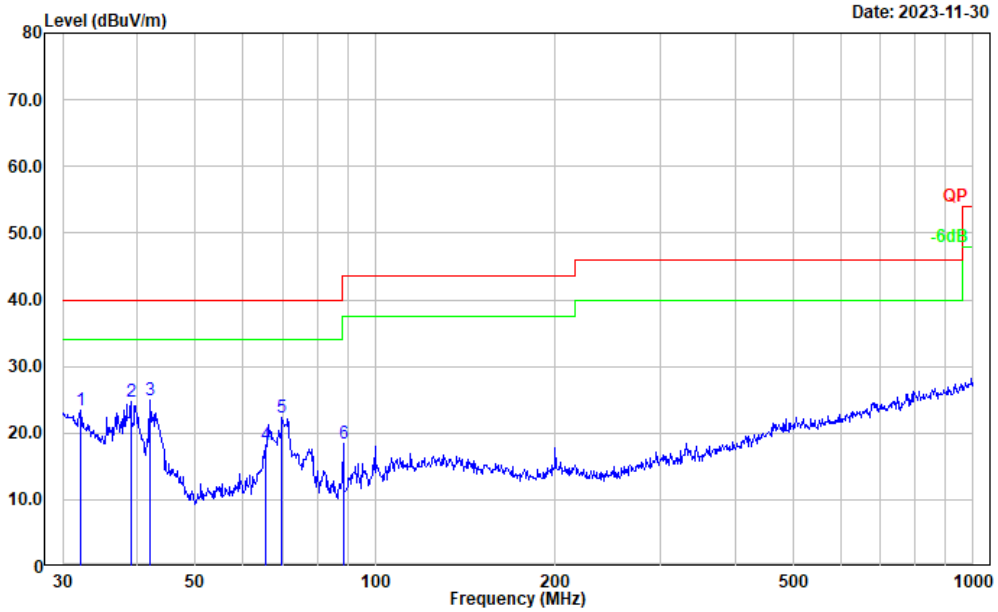
Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: horizontal
 Note:

Date: 2023-11-30



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	27.48	-4.04	23.44	40.00	16.56	Peak
2	39.715	28.13	-11.19	16.94	40.00	23.06	Peak
3	76.512	30.85	-17.13	13.72	40.00	26.28	Peak
4	110.957	29.94	-12.25	17.69	43.50	25.81	Peak
5	413.271	28.67	-8.23	20.44	46.00	25.56	Peak
6	684.745	29.12	-3.69	25.43	46.00	20.57	Peak

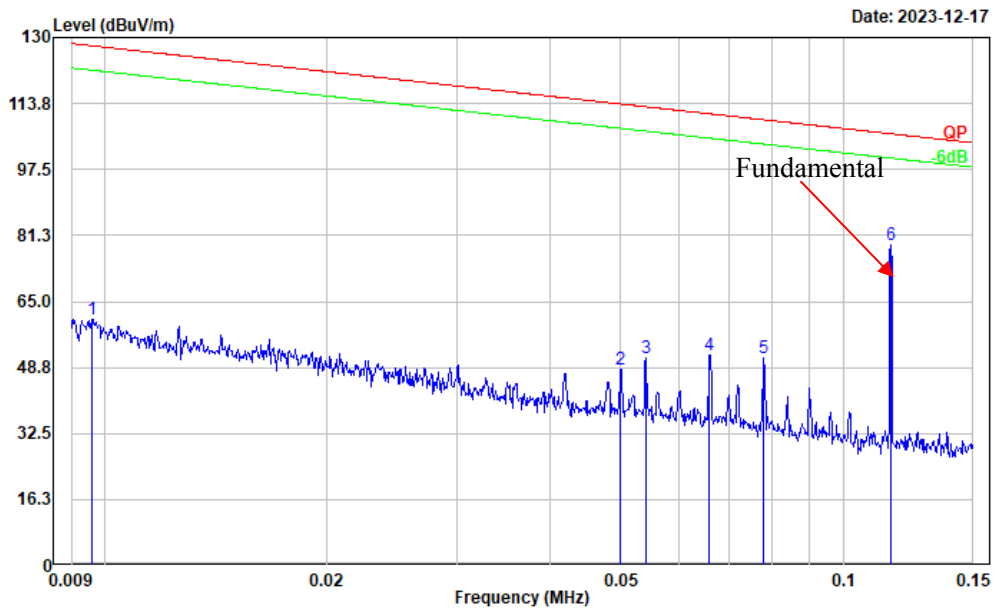
Project No.: CR231061510-RF
 Tester: Jeff Luo
 Polarization: vertical
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	32.067	28.83	-5.35	23.48	40.00	16.52	Peak
2	39.024	35.44	-10.65	24.79	40.00	15.21	Peak
3	42.007	37.40	-12.51	24.89	40.00	15.11	Peak
4	65.573	35.20	-16.91	18.29	40.00	21.71	Peak
5	69.845	39.02	-16.58	22.44	40.00	17.56	Peak
6	88.342	35.51	-17.02	18.49	43.50	25.01	Peak

Lighting:
1)9kHz- 30MHz
Parallel:

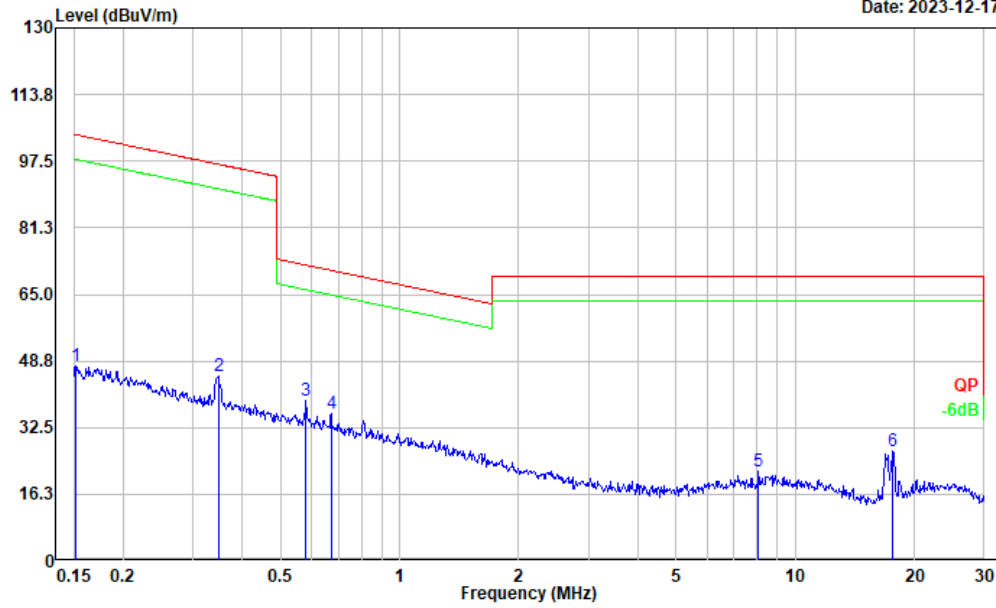
Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Parallel
 Note:



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	2.38	58.31	60.69	127.96	67.27	Peak
2	0.050	5.97	42.47	48.44	113.64	65.20	Peak
3	0.054	9.25	41.91	51.16	112.95	61.79	Peak
4	0.066	11.54	40.27	51.81	111.22	59.41	Peak
5	0.078	12.32	38.60	50.92	109.75	58.83	Peak
6	0.116	43.54	35.55	79.09	106.31	27.22	Peak

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Parallel
 Note:

Date: 2023-12-17

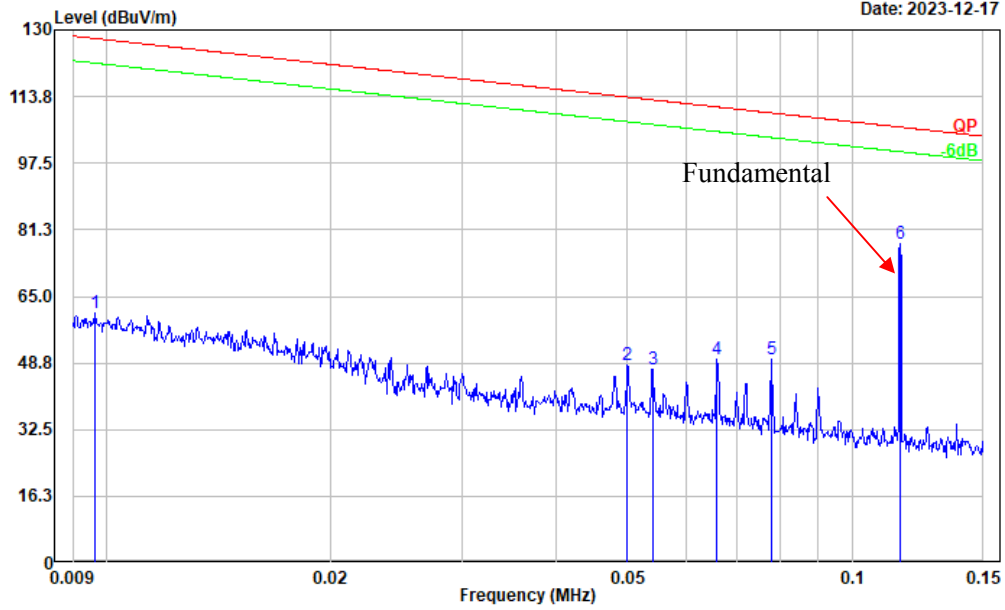


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.152	13.59	33.85	47.44	103.94	56.50	Peak
2	0.348	19.21	25.80	45.01	96.76	51.75	Peak
3	0.579	17.59	21.42	39.01	72.32	33.31	Peak
4	0.672	15.61	20.21	35.82	71.00	35.18	Peak
5	8.062	18.65	3.14	21.79	69.54	47.75	Peak
6	17.568	24.82	1.78	26.60	69.54	42.94	Peak

Perpendicular:

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Perpendicular
 Note:

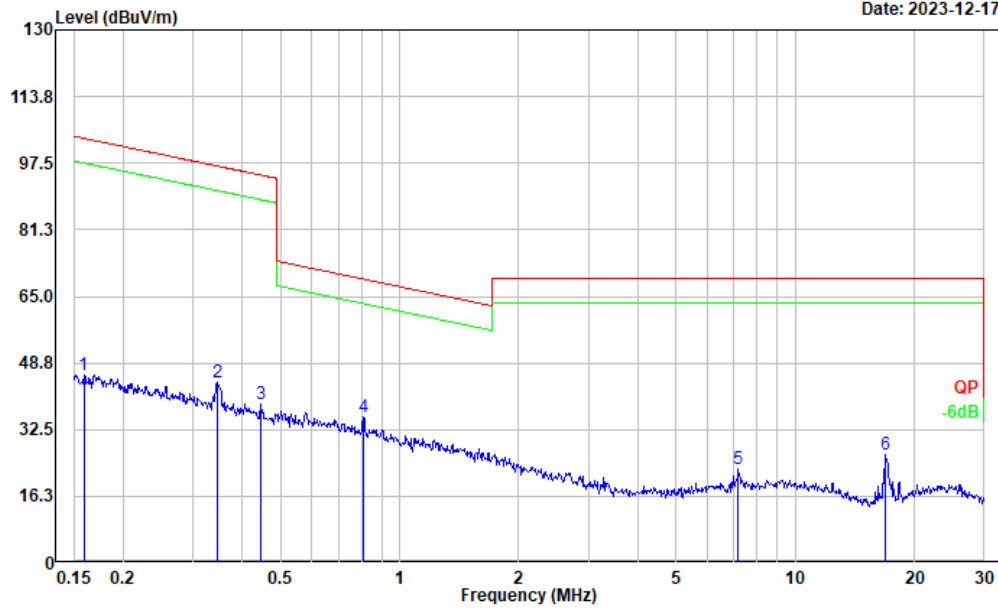
Date: 2023-12-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	2.79	58.25	61.04	127.91	66.87	Peak
2	0.050	5.88	42.47	48.35	113.64	65.29	Peak
3	0.054	5.38	41.91	47.29	112.95	65.66	Peak
4	0.066	9.44	40.27	49.71	111.22	61.51	Peak
5	0.078	11.21	38.60	49.81	109.75	59.94	Peak
6	0.116	42.39	35.55	77.94	106.31	28.37	Peak

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Perpendicular
 Note:

Date: 2023-12-17

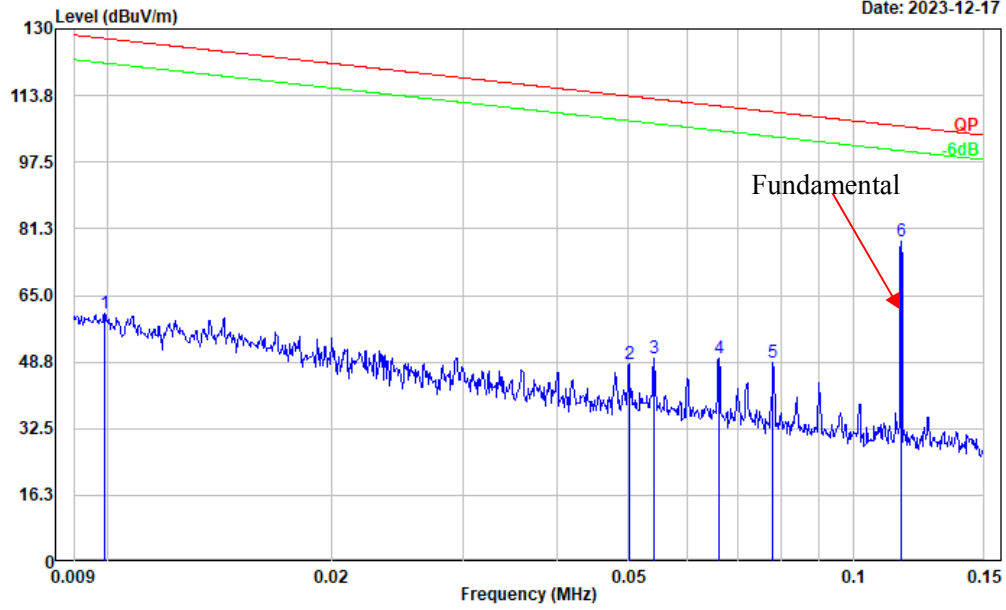


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.159	12.25	33.54	45.79	103.58	57.79	Peak
2	0.346	18.15	25.84	43.99	96.81	52.82	Peak
3	0.447	15.13	23.63	38.76	94.60	55.84	Peak
4	0.809	17.14	18.42	35.56	69.36	33.80	Peak
5	7.175	19.29	3.62	22.91	69.54	46.63	Peak
6	16.928	24.79	1.80	26.59	69.54	42.95	Peak

Ground-parallel:

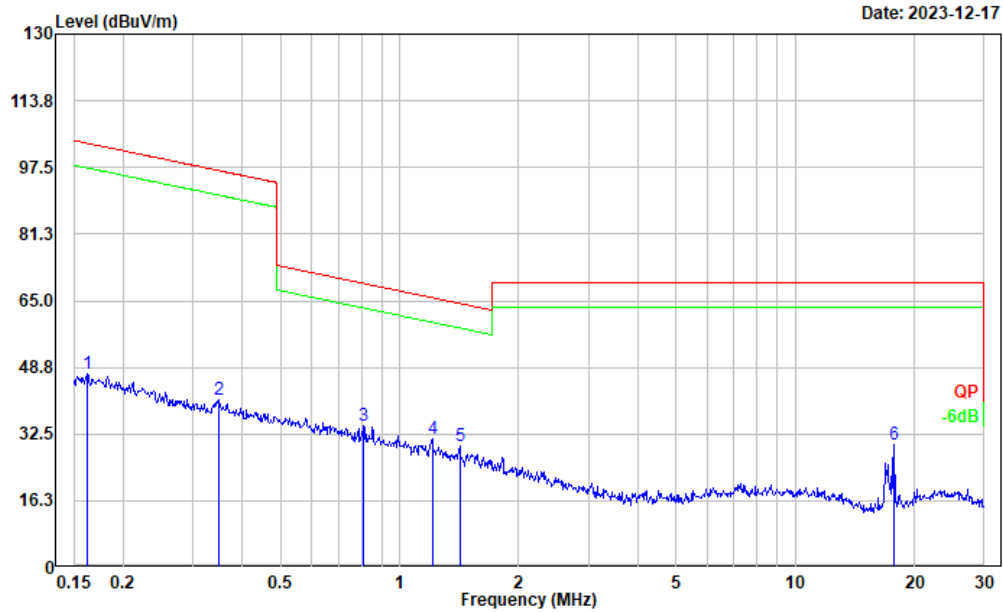
Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Ground-parallel
 Note:

Date: 2023-12-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	2.64	57.97	60.61	127.69	67.08	Peak
2	0.050	5.86	42.44	48.30	113.61	65.31	Peak
3	0.054	7.81	41.91	49.72	112.95	63.23	Peak
4	0.066	9.41	40.24	49.65	111.19	61.54	Peak
5	0.078	10.07	38.60	48.67	109.75	61.08	Peak
6	0.116	42.56	35.55	78.11	106.31	28.20	Peak

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: Ground-parallel
 Note:

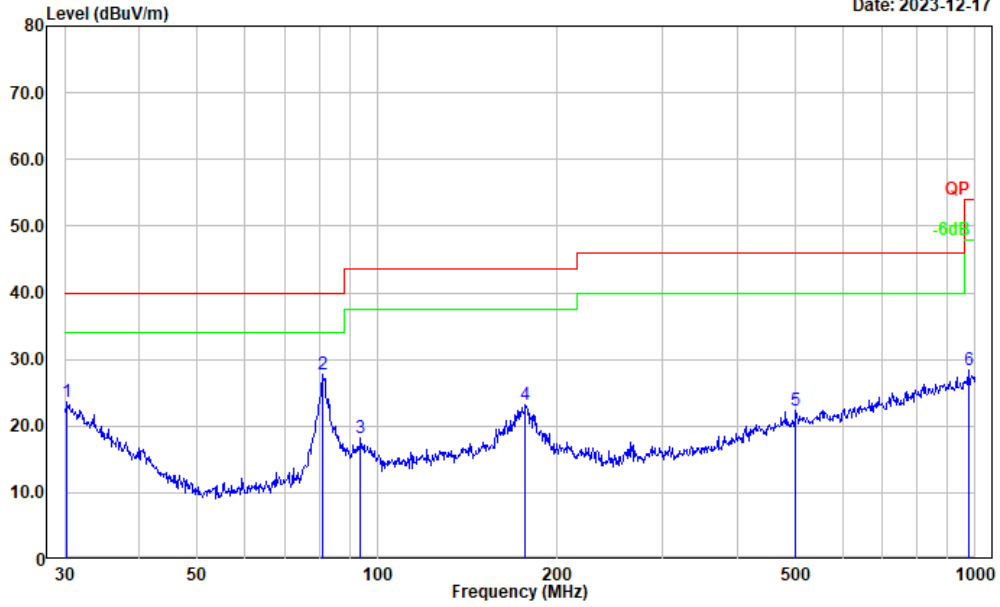


No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.162	13.84	33.38	47.22	103.39	56.17	Peak
2	0.348	15.22	25.80	41.02	96.76	55.74	Peak
3	0.809	16.09	18.42	34.51	69.36	34.85	Peak
4	1.210	15.83	15.45	31.28	65.78	34.50	Peak
5	1.418	15.21	14.29	29.50	64.37	34.87	Peak
6	17.755	28.07	1.77	29.84	69.54	39.70	Peak

2) 30MHz-1GHz

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: horizontal
 Note:

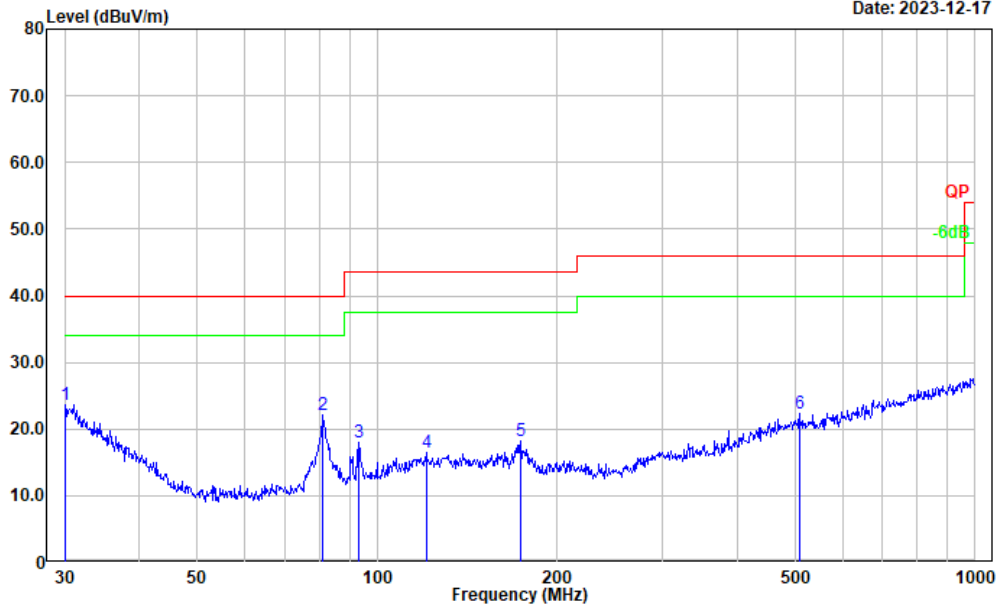
Date: 2023-12-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.317	27.76	-4.15	23.61	40.00	16.39	Peak
2	81.212	45.36	-17.56	27.80	40.00	12.20	Peak
3	93.768	34.38	-16.16	18.22	43.50	25.28	Peak
4	176.888	36.79	-13.56	23.23	43.50	20.27	Peak
5	501.179	28.56	-6.26	22.30	46.00	23.70	Peak
6	975.753	28.42	0.03	28.45	54.00	25.55	Peak

Project No.: CR231061510-RF
 Tester: Carl Xue
 Polarization: vertical
 Note:

Date: 2023-12-17



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.105	27.62	-3.99	23.63	40.00	16.37	Peak
2	81.212	39.59	-17.56	22.03	40.00	17.97	Peak
3	93.113	34.31	-16.30	18.01	43.50	25.49	Peak
4	120.699	28.17	-11.63	16.54	43.50	26.96	Peak
5	173.814	31.66	-13.35	18.31	43.50	25.19	Peak
6	508.258	28.51	-6.17	22.34	46.00	23.66	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	2CIM-5, 2CIM-6	Test Date:	2023/11/30~2023/12/17
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Jeff Luo, Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~25.3	Relative Humidity: (%)	40~45	ATM Pressure: (kPa)	101.3~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
BACL	Loop Antenna	1313-1P	3092721	2023/10/20	2026/10/19
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15

* **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:**Normal:**

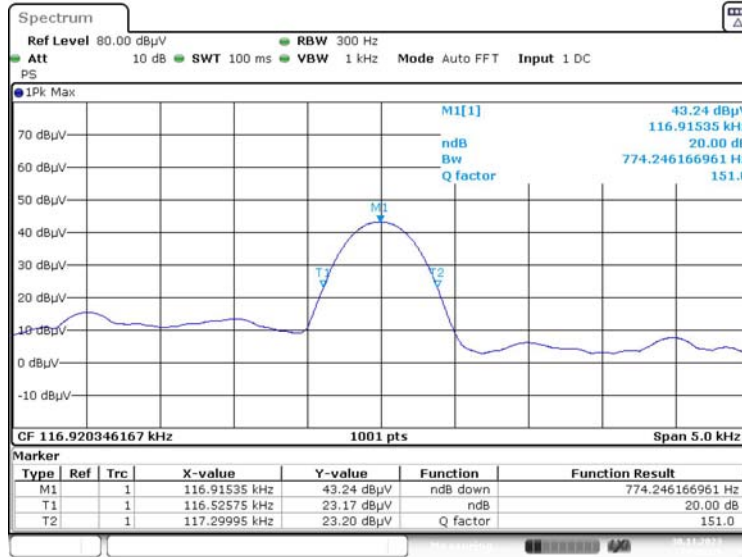
Test Frequency (kHz)	20 dB Emission Bandwidth (Hz)
116.915	774.246

Lighting:

Test Frequency (kHz)	20 dB Emission Bandwidth (Hz)
115.96	774.228

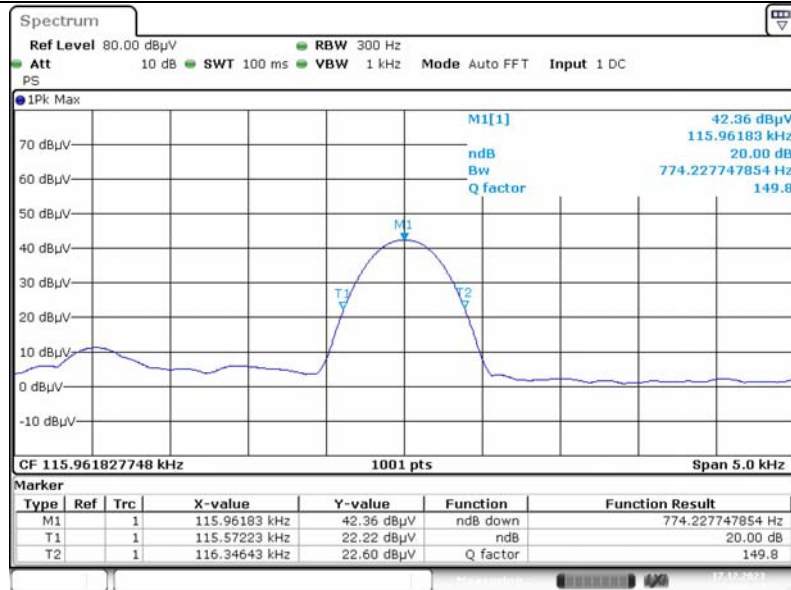
20 dB Bandwidth

Normal:



ProjectNo.:CR231061510-RF Tester:Jeff Luo
Date: 30.NOV.2023 19:26:56

Lighting:



ProjectNo.:CR231061510-RF Tester:Carl Xue
Date: 17.DEC.2023 14:09:53

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, §2.1093)

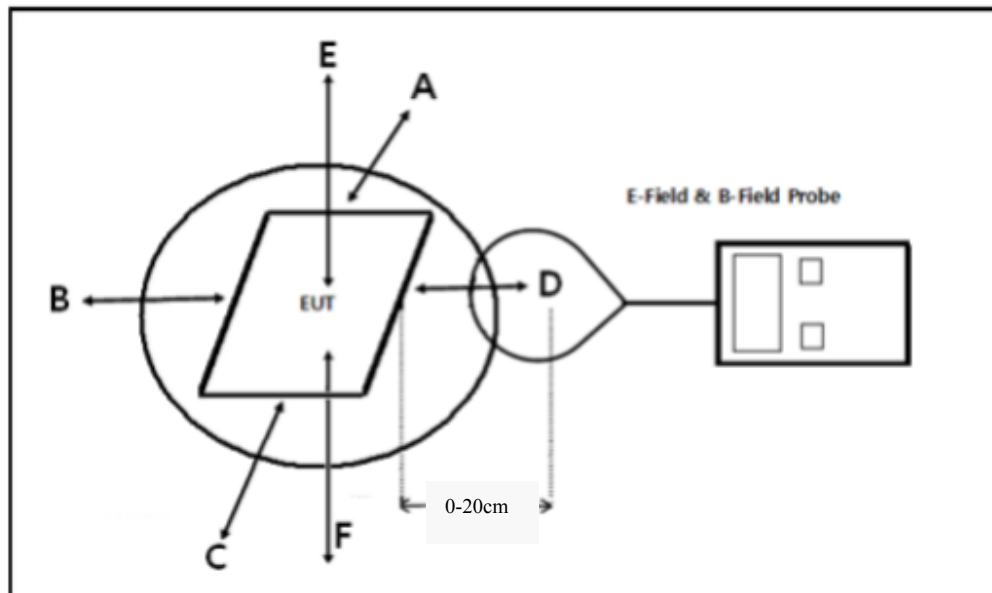
(B) Limits for General Population/Uncontrolled Exposure				
Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minutes)
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500	/	/	f/1500	30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

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

According with 680106 D01 Wireless Power Transfer v04 clause 3.2

Accordingly, for § 2.1091-Mobile devices, the MPE limits between 100 kHz to 300 kHz are to be considered the same as those at 300 kHz in Table 1 of § 1.1310, that is, 614 V/m and 1.63 A/m, for the electric field and magnetic field, respectively. For § 2.1093-Portable devices below 4 MHz and down to 100 kHz, the MPE limits in § 1.1310 (with the 300 kHz limit applicable all the way down to 100 kHz) can be used for the purpose of equipment authorization in lieu of SAR evaluations.

5.2 Block Diagram of Test Setup



5.3 Test Procedures

- 1) Perform H-field and E-field measurements for each all sides of the EUT at 0cm, along all the principal axes defined with respect to the orientation of the transmitting element(e.g., coil or antenna).
- 2) The highest emission level was recorded and compared with limit.
- 3) The EUT was measured according to 680106 D01 Wireless Power Transfer v04

5.4 Test Data:

Serial Number:	2CIM-6, 2CIM-5	Test Date:	2024/1/6
Test Site:	CE	Test Mode:	Transmitting
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.9	Relative Humidity: (%)	46	ATM Pressure: (kPa)	101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
speag	Probe	MAGPY-8H3D+E3D	3081	2023/09/15	2024/09/14
speag	Data Acquisition System	MAPGPY-DAS	1018	2023/09/15	2024/09/14

* 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:**Normal:****Test distance: 0cm****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)	Position F (A/m)	Limit (A/m)
117	0.31	1.49	0.3	1.46	0.2	0.18	1.63

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)	Position F (V/m)	Limit (V/m)
117	4.15	4.08	3.43	4.27	12.1	11.4	614

Lighting:**Test distance: 0cm****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)	Position F (A/m)	Limit (A/m)
116	0.32	1.51	0.28	1.47	0.25	0.16	1.63

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)	Position F (V/m)	Limit (V/m)
116	4.09	4.01	3.49	4.06	12.62	11.47	614

6. EUT PHOTOGRAPHS

Please refer to the attachment CR231061510-EXP EUT EXTERNAL PHOTOGRAPHS and CR231061510-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231061510-00F-TSP TEST SETUP PHOTOGRAPHS.

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