



中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Shanghai Xiangcheng Communication Technology Co.,Ltd

Address: 6th Floor, Building 10, No.3000 Longdong Avenue, Pudong New District,
Shanghai, China

FCC ID: 2A2UU-T8

Product Name: Intelligent Mobile Data Capture Terminal

Standard(s): 47 CFR Part 15, Subpart C(15.225)
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: CR22070052-00F

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Title: Manager

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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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1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

EUT Name:	Intelligent Mobile Data Capture Terminal
EUT Model:	T8
Operation Frequency:	13.56 MHz
Modulation Type:	ASK
Rated Input Voltage:	DC 5Vcharging from adapter and DC 3.85V by battery
Serial Number:	CR22070052-RF-S1
EUT Received Date:	2022.07.25
EUT Received Status:	Good

Antenna Information Detail ▲:

Antenna Type	input impedance (Ohm)	Frequency Range	Antenna Gain
FPC	50	13.56MHz	Unknown
The Method of §15.203 Compliance: ☒ Antenna must be permanently attached to the unit. ☐ Antenna must use a unique type of connector to attach to the EUT. ☐ Unit must be 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
Adapter	SHENZHEN TIANYIN ELECTRONICS CO.,LTD	TPA-23A050200UU01	Input: AC 100-240V~50/60Hz 0.3A Output: 5.0V 2000mA
USB Cable	Unknown	Unknown	Unshielded, 1m

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

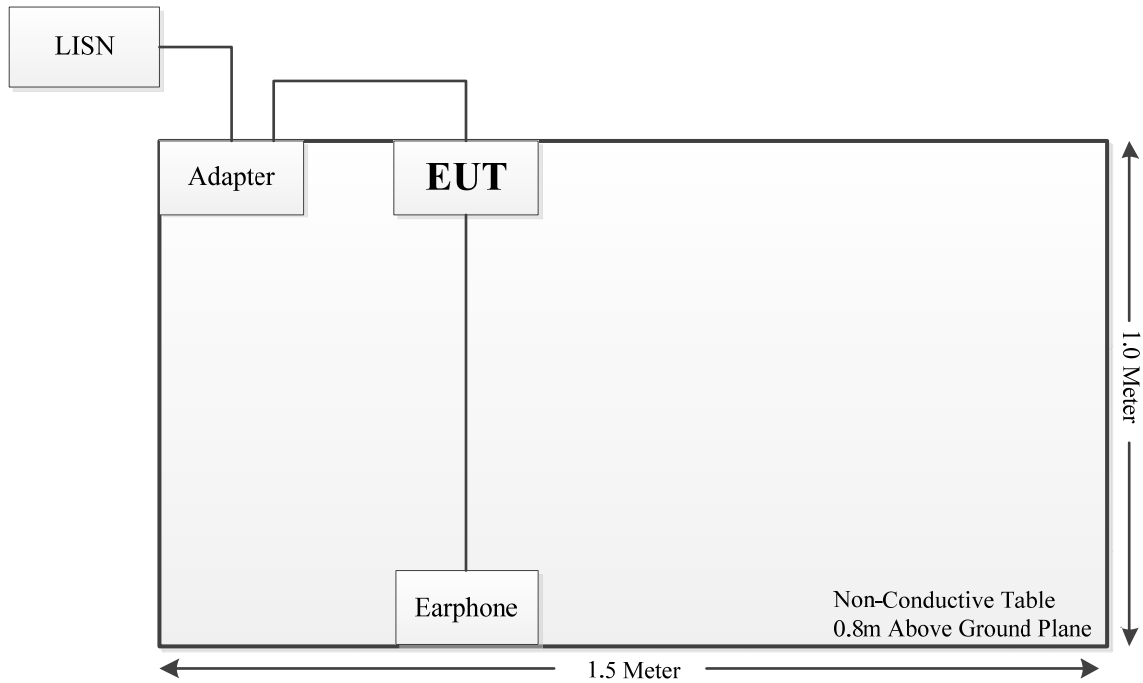
Manufacturer	Description	Model	Serial Number
/	/	/	/

1.2.3 Support Cable List and Details

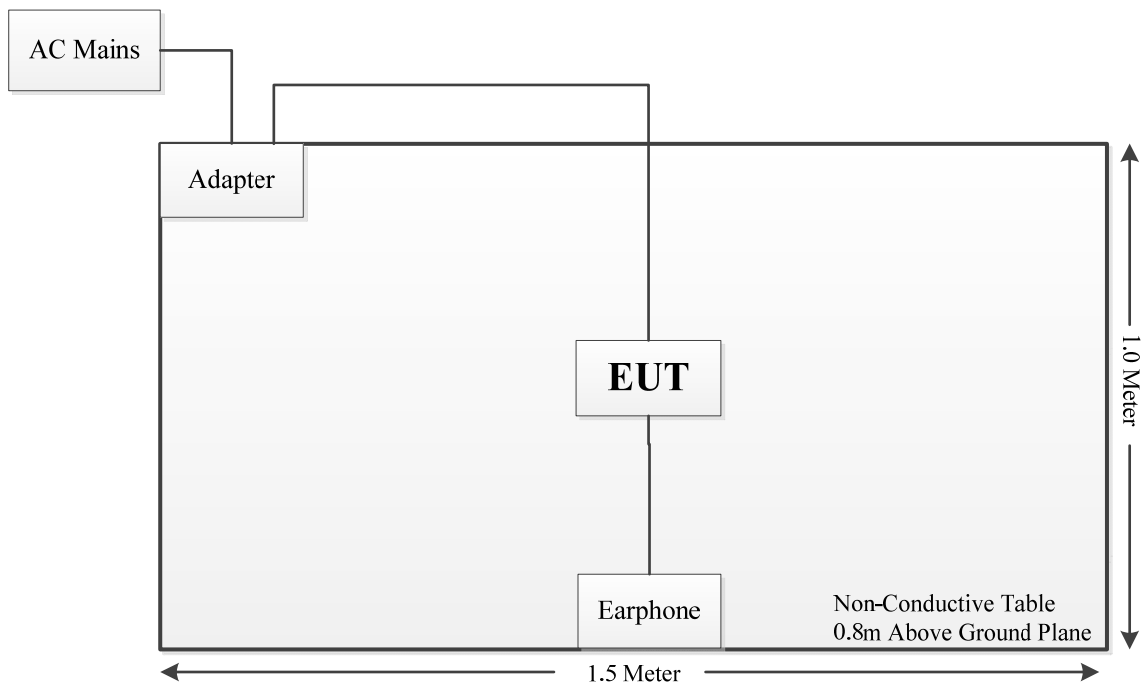
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
/	/	/	/	/	/

1.2.4 Block Diagram of Test Setup

Conducted Emissions:



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
Occupied Channel Bandwidth	$\pm 5\%$
Unwanted Emissions, radiated	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	$\pm 1^{\circ}\text{C}$
Humidity	$\pm 5\%$
DC and low frequency voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC§15.203	Antenna Requirement	Compliance
FCC§15.207 (a)	Conducted Emissions	Compliance
§15.225 §15.209 §15.205	Radiated Emission Test	Compliance
§15.225(e)	Frequency Stability	Compliance
§15.215(c)	20 dB Bandwidth	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 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:

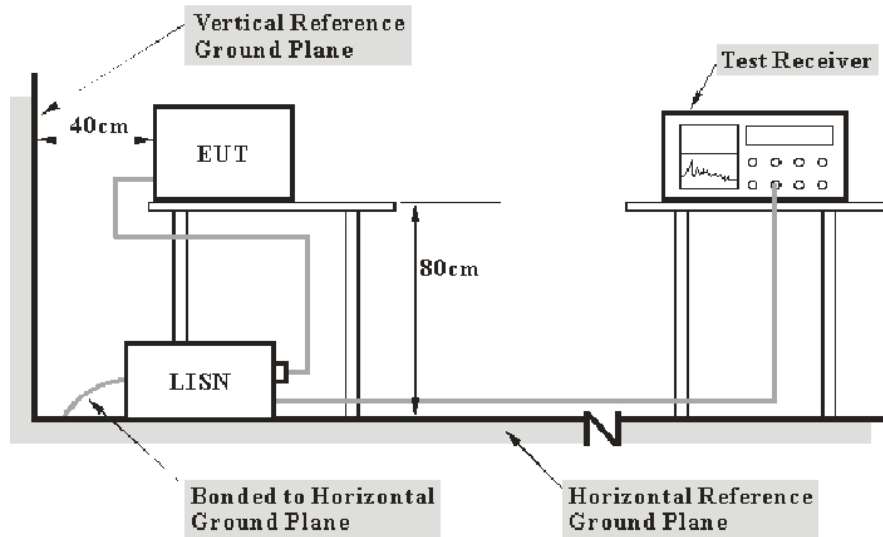
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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 120 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

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

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.

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 Section 15.207 limits within the transmitter's fundamental emission band.

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 Radiated Emissions

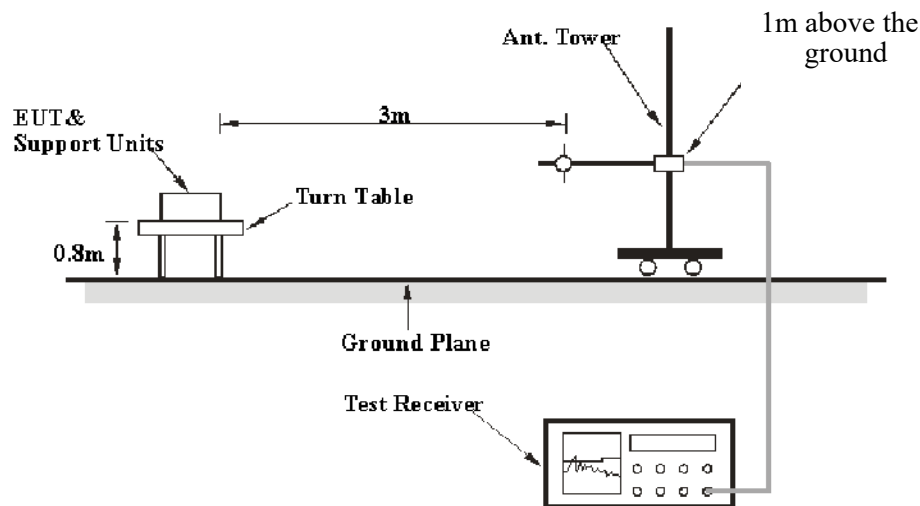
3.2.1 Applicable Standard

As per FCC Part 15.225

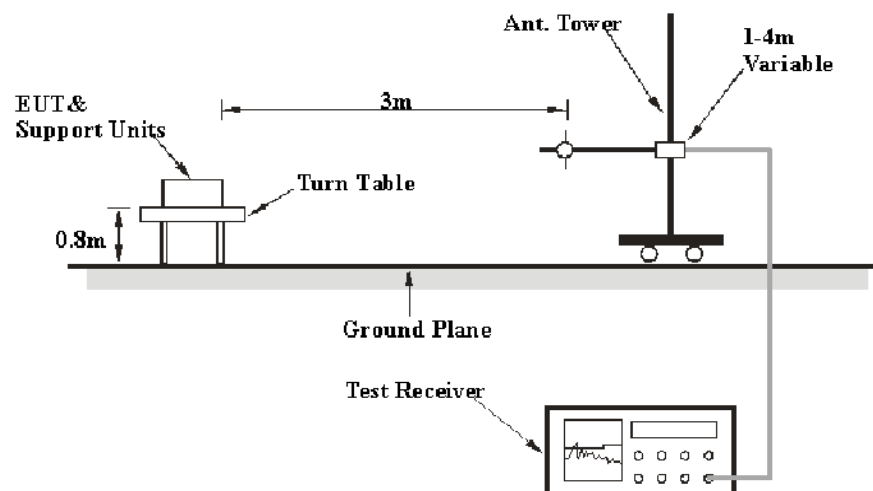
- (a) The field strength of any emissions within the band 13.553–13.567 MHz shall not exceed 15,848 microvolts/meter at 30 meters.
- (b) Within the bands 13.410–13.553 MHz and 13.567–13.710 MHz, the field strength of any emissions shall not exceed 334 microvolts/meter at 30 meters.
- (c) Within the bands 13.110–13.410 MHz and 13.710–14.010 MHz the field strength of any emissions shall not exceed 106 microvolts/meter at 30 meters.
- (d) The field strength of any emissions appearing outside of the 13.110–14.010 MHz band shall not exceed the general radiated emission limits in §15.209.

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

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

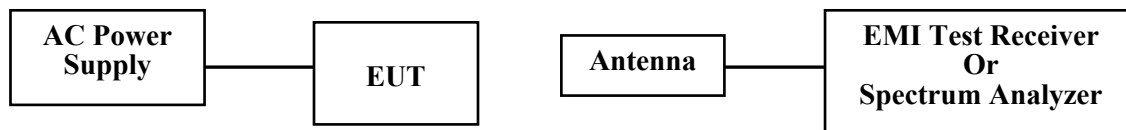
3.3 20 dB Emission Bandwidth:

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. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
2. 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.
3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

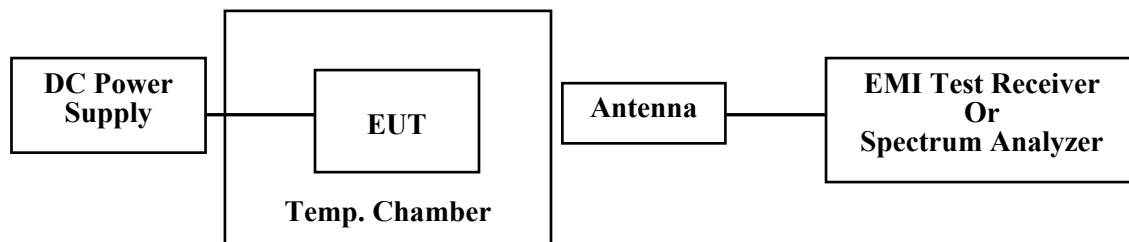
3.4 Frequency Stability

3.4.1 Applicable Standard

As per FCC Part 15.225:

The frequency tolerance of the carrier signal shall be maintained within $\pm 0.01\%$ of the operating frequency over a temperature variation of -20 degrees to $+50$ degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

3.4.2 EUT Setup



3.4.3 Test Procedure

Frequency Stability vs. Temperature: The equipment under test was connected to an external DC power.

The EUT was placed inside the temperature chamber.

After the temperature stabilized for approximately 20 minutes, the frequency output was recorded from the Spectrum Analyzer.

Frequency Stability vs. Voltage: An external variable DC power supply Source. The voltage was set to the end point of the battery. The output frequency was recorded for each voltage.

3.5 Antenna Requirement

3.5.1 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 user of a standard antenna jack or electrical connector is prohibited. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

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

3.5.2 Judgment

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

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Serial Number:	CR22070052-RF-S1	Test Date:	2022-08-11
Test Site:	CE	Test Mode:	Transmitting
Tester:	Vic Du	Test Result:	Pass

Environmental Conditions:

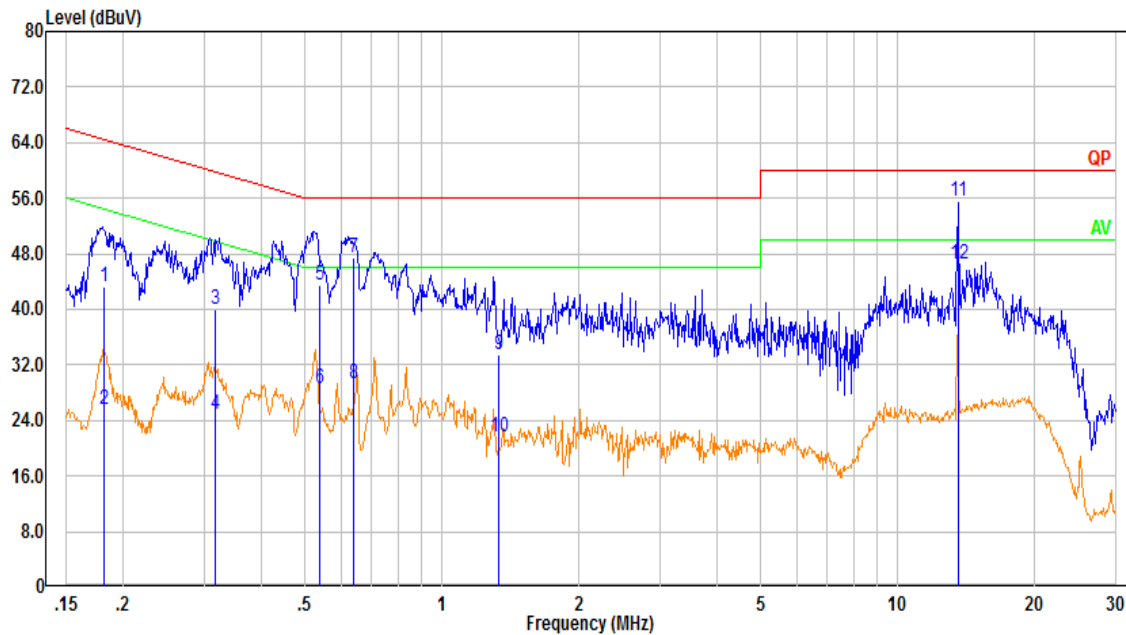
Temperature: (°C)	26.8	Relative Humidity: (%)	69	ATM Pressure: (kPa)	100.2
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Test Equipment List and Details:

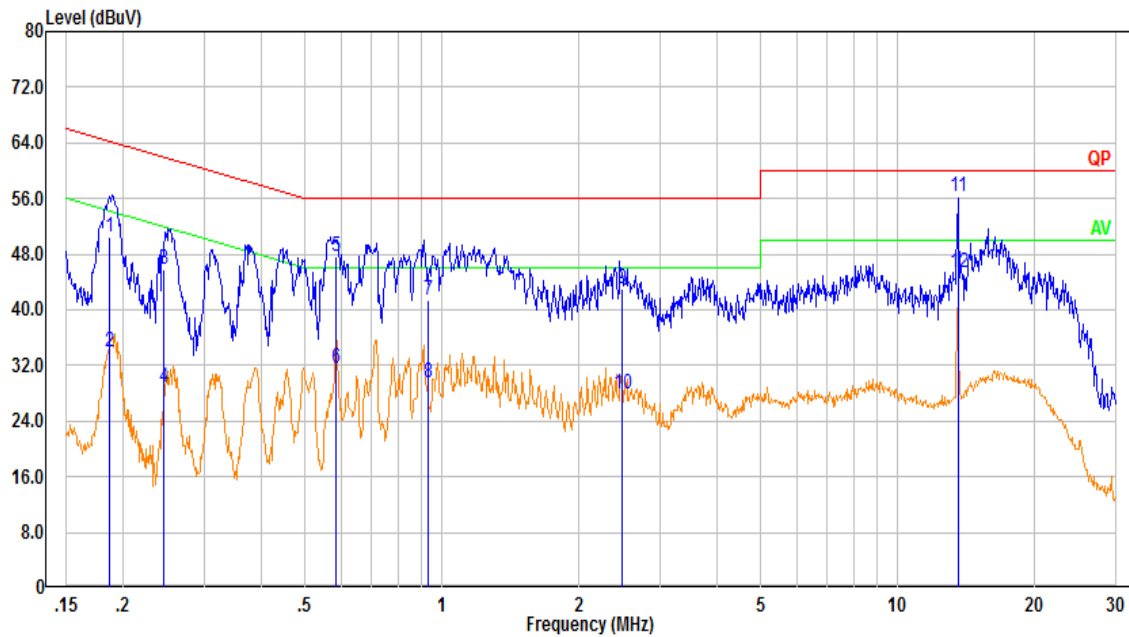
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101134	2022-04-01	2023-03-31
R&S	EMI Test Receiver	ESR3	102726	2022-07-15	2023-07-14
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2022-08-07	2023-08-06
Audix	Test Software	E3	190306 (V9)	N/A	N/A

* 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	0.181	33.64	9.61	43.25	64.42	21.17	QP
2	0.181	16.06	9.61	25.67	54.42	28.75	Average
3	0.318	30.39	9.61	40.00	59.76	19.76	QP
4	0.318	15.38	9.61	24.99	49.76	24.77	Average
5	0.540	33.81	9.61	43.42	56.00	12.58	QP
6	0.540	19.05	9.61	28.66	46.00	17.34	Average
7	0.640	37.79	9.62	47.41	56.00	8.59	QP
8	0.640	19.65	9.62	29.27	46.00	16.73	Average
9	1.334	23.89	9.62	33.51	56.00	22.49	QP
10	1.334	12.03	9.62	21.65	46.00	24.35	Average
11	13.560	45.98	9.68	55.66	60.00	4.34	QP
12	13.560	36.77	9.68	46.45	50.00	3.55	Average

Neutral

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.186	40.93	9.61	50.54	64.20	13.66	QP
2	0.186	24.23	9.61	33.84	54.20	20.36	Average
3	0.246	36.21	9.61	45.82	61.91	16.09	QP
4	0.246	19.18	9.61	28.79	51.91	23.12	Average
5	0.583	38.08	9.62	47.70	56.00	8.30	QP
6	0.583	22.04	9.62	31.66	46.00	14.34	Average
7	0.933	31.68	9.62	41.30	56.00	14.70	QP
8	0.933	19.96	9.62	29.58	46.00	16.42	Average
9	2.491	33.28	9.64	42.92	56.00	13.08	QP
10	2.491	18.32	9.64	27.96	46.00	18.04	Average
11	13.560	46.65	9.68	56.33	60.00	3.67	QP
12	13.560	35.56	9.68	45.24	50.00	4.76	Average

4.2 Radiation Spurious Emissions

Serial Number:	CR22070052-RF-S1	Test Date:	2022-08-02
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Gary Ling,	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	29.5	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.3

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).

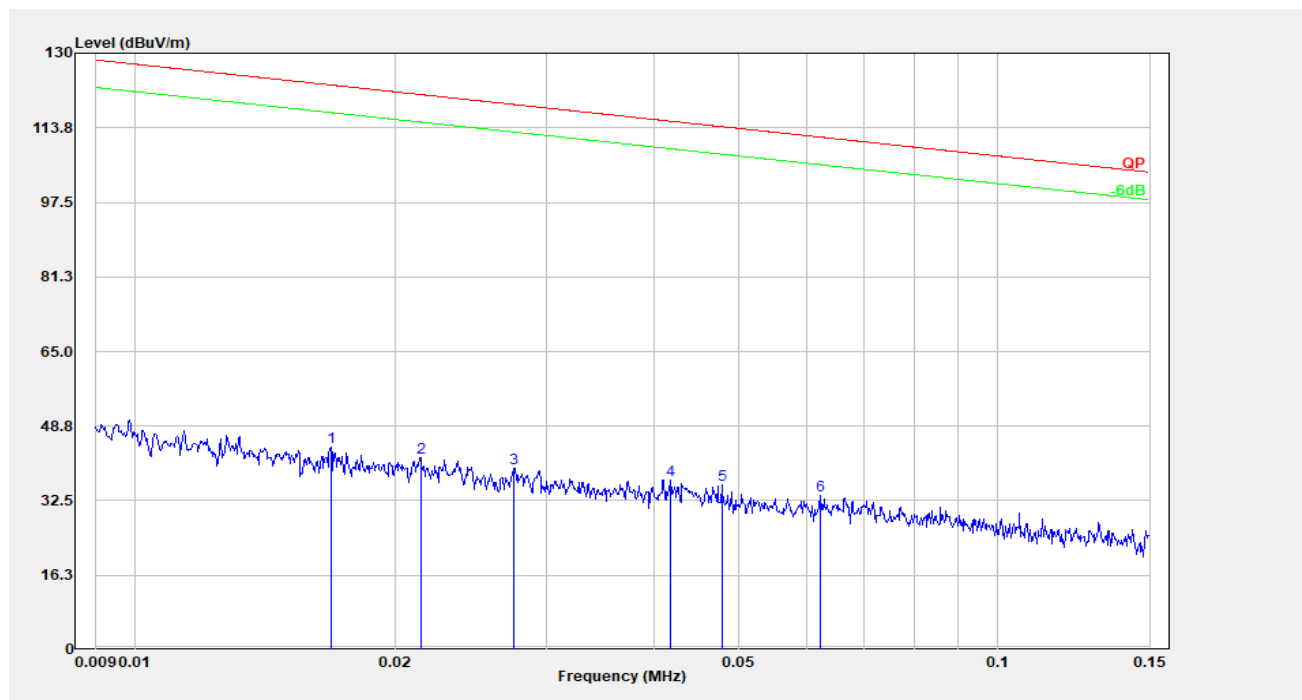
Test Data:

Please refer to the below table and plots.

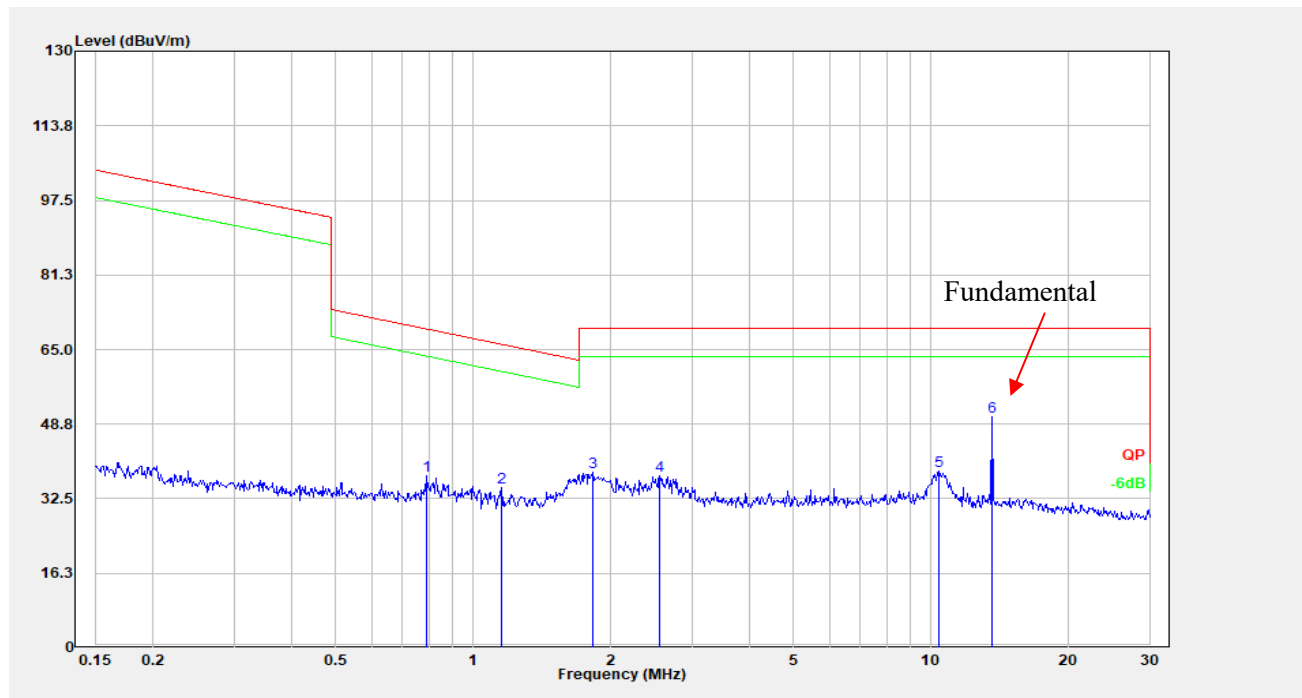
Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.10 Figure 8, the worst orientation was photographed and it's data was recorded.

1) 9 kHz~30MHz:

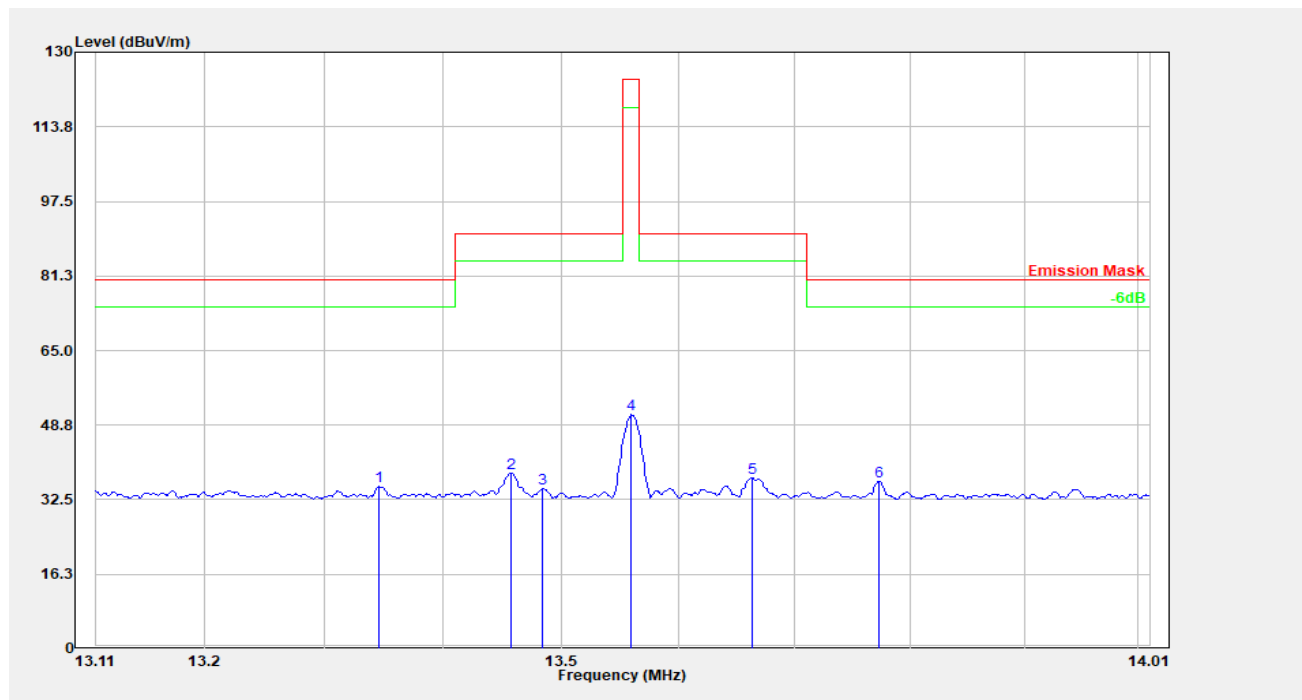
Ground-parallel:



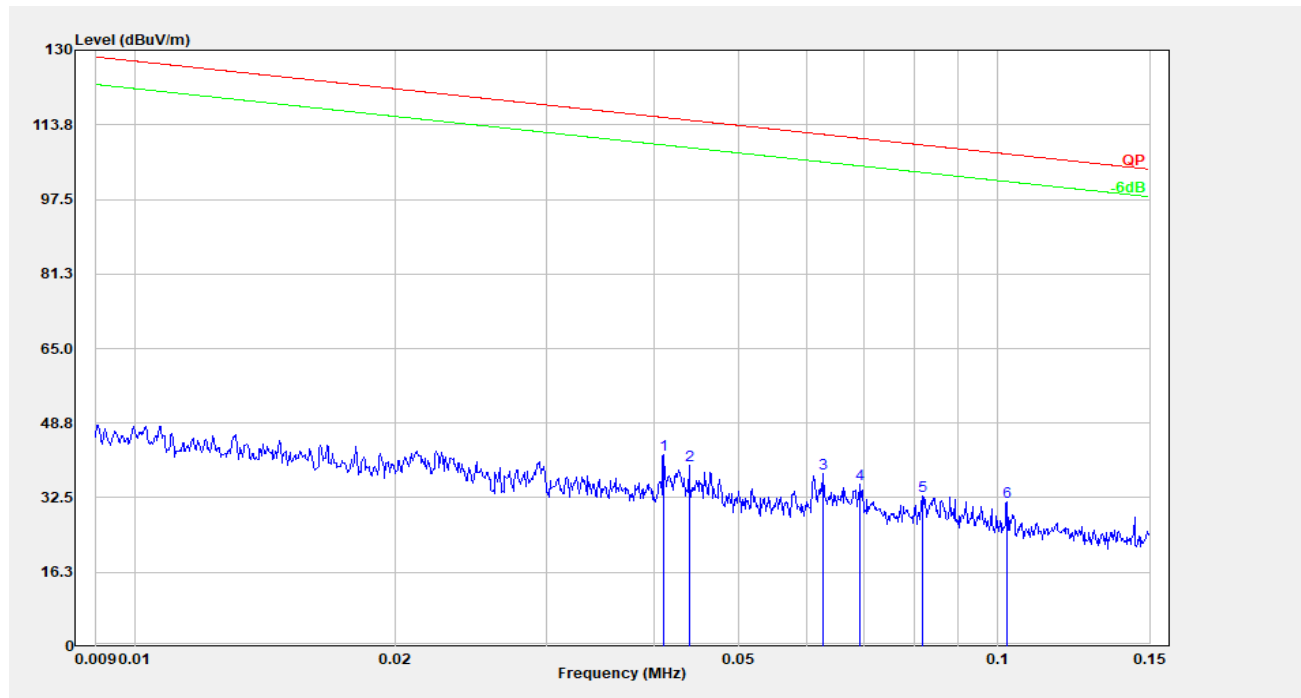
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.017	23.64	20.51	44.15	123.07	78.92	Peak
2	0.021	21.43	20.48	41.92	120.99	79.08	Peak
3	0.027	19.20	20.41	39.61	118.82	79.21	Peak
4	0.042	16.54	20.41	36.95	115.20	78.25	Peak
5	0.048	15.48	20.41	35.89	114.00	78.11	Peak
6	0.062	13.27	20.41	33.68	111.73	78.05	Peak



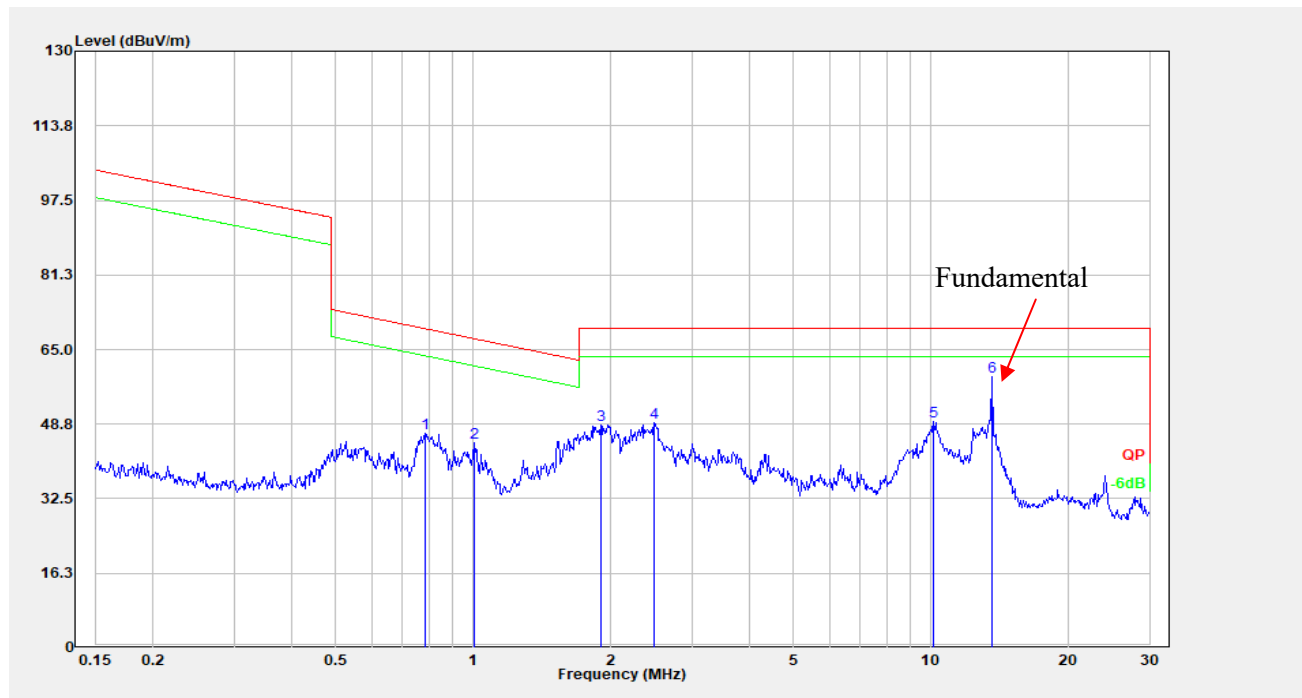
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.792	17.55	20.03	37.58	69.54	31.96	Peak
2	1.153	14.85	20.00	34.85	66.21	31.35	Peak
3	1.829	18.21	19.95	38.16	69.54	31.38	Peak
4	2.554	17.66	19.97	37.63	69.54	31.91	Peak
5	10.397	18.13	20.31	38.44	69.54	31.10	Peak
6	13.551	29.92	20.39	50.31	69.54	19.23	Peak



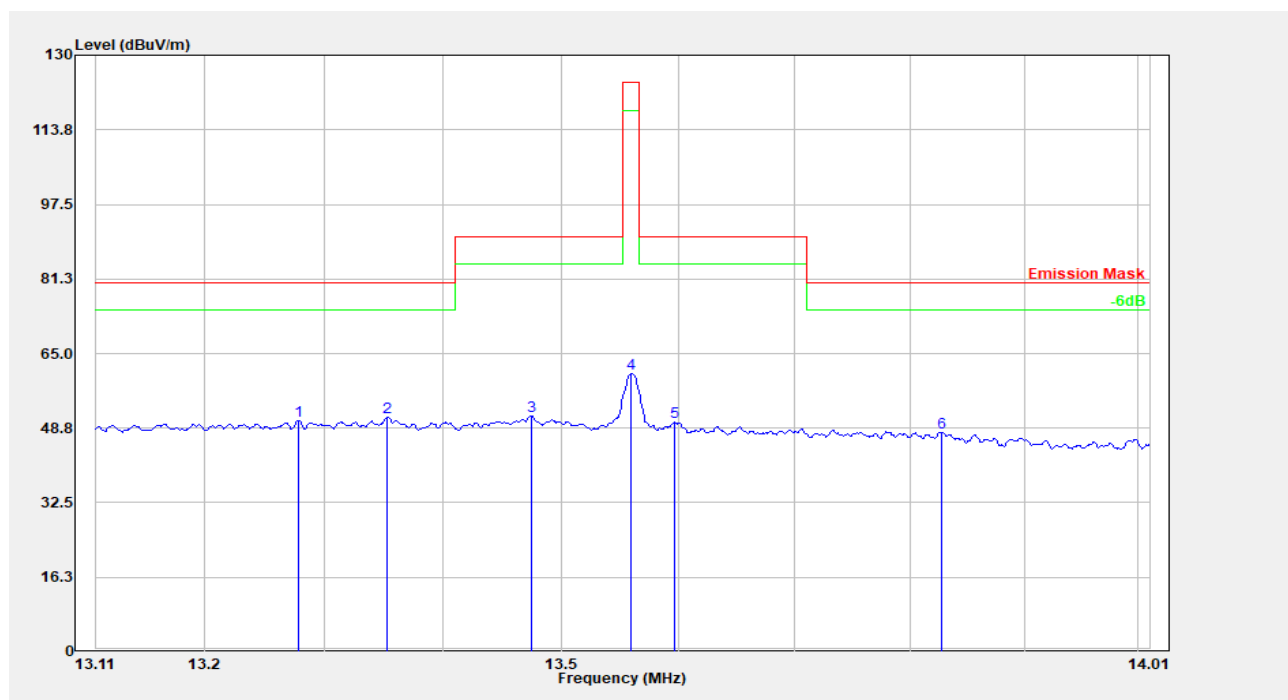
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.346	14.97	20.38	35.35	80.51	45.16	Peak
2	13.457	17.89	20.38	38.27	90.47	52.20	Peak
3	13.484	14.51	20.38	34.89	90.47	55.58	Peak
4	13.560	30.62	20.39	51.01	124.00	72.99	Peak
5	13.664	16.83	20.39	37.22	90.47	53.25	Peak
6	13.773	16.06	20.39	36.45	80.51	44.06	Peak

Perpendicular:

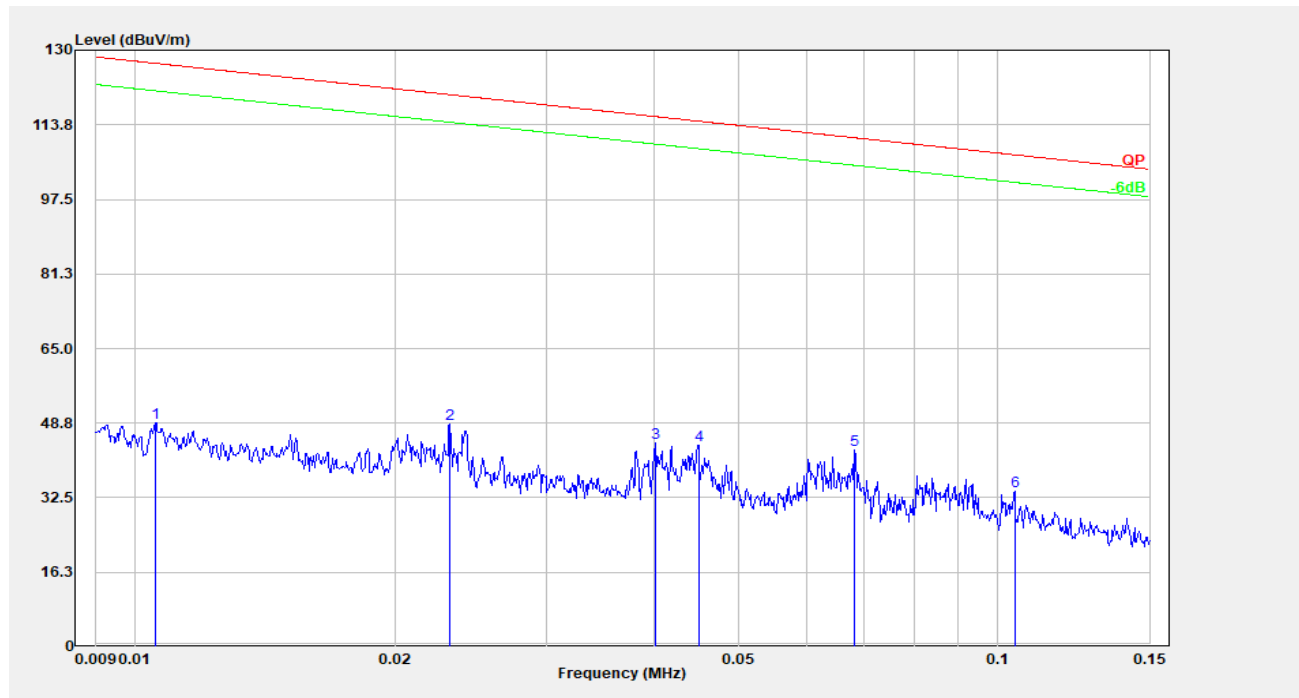
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.041	21.51	20.41	41.92	115.35	73.43	Peak
2	0.044	19.15	20.41	39.56	114.76	75.20	Peak
3	0.063	17.42	20.41	37.83	111.66	73.82	Peak
4	0.069	14.95	20.42	35.37	110.80	75.43	Peak
5	0.082	12.50	20.34	32.85	109.36	76.51	Peak
6	0.103	11.44	20.22	31.66	107.38	75.72	Peak



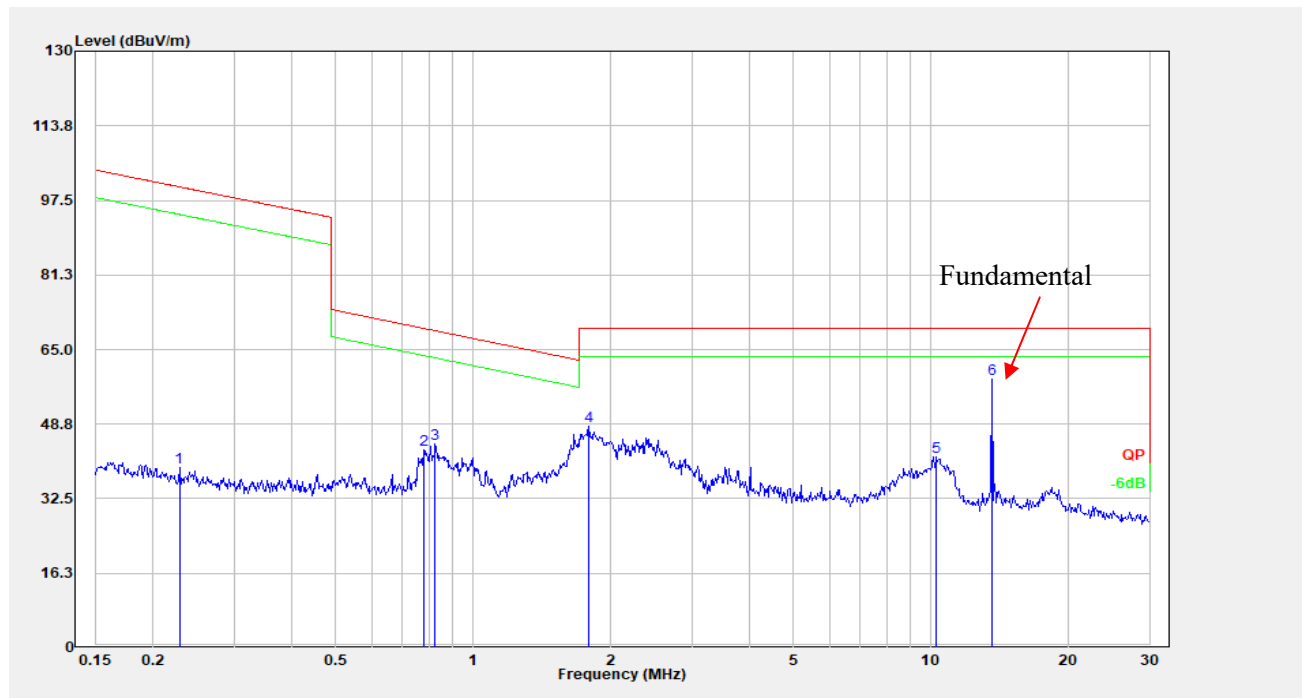
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.783	26.76	20.03	46.79	69.64	22.84	Peak
2	1.005	24.63	20.03	44.66	67.43	22.77	Peak
3	1.898	28.71	19.96	48.67	69.54	20.87	Peak
4	2.487	29.05	19.97	49.02	69.54	20.52	Peak
5	10.125	29.03	20.30	49.33	69.54	20.21	Peak
6	13.551	38.73	20.39	59.12	69.54	10.42	Peak



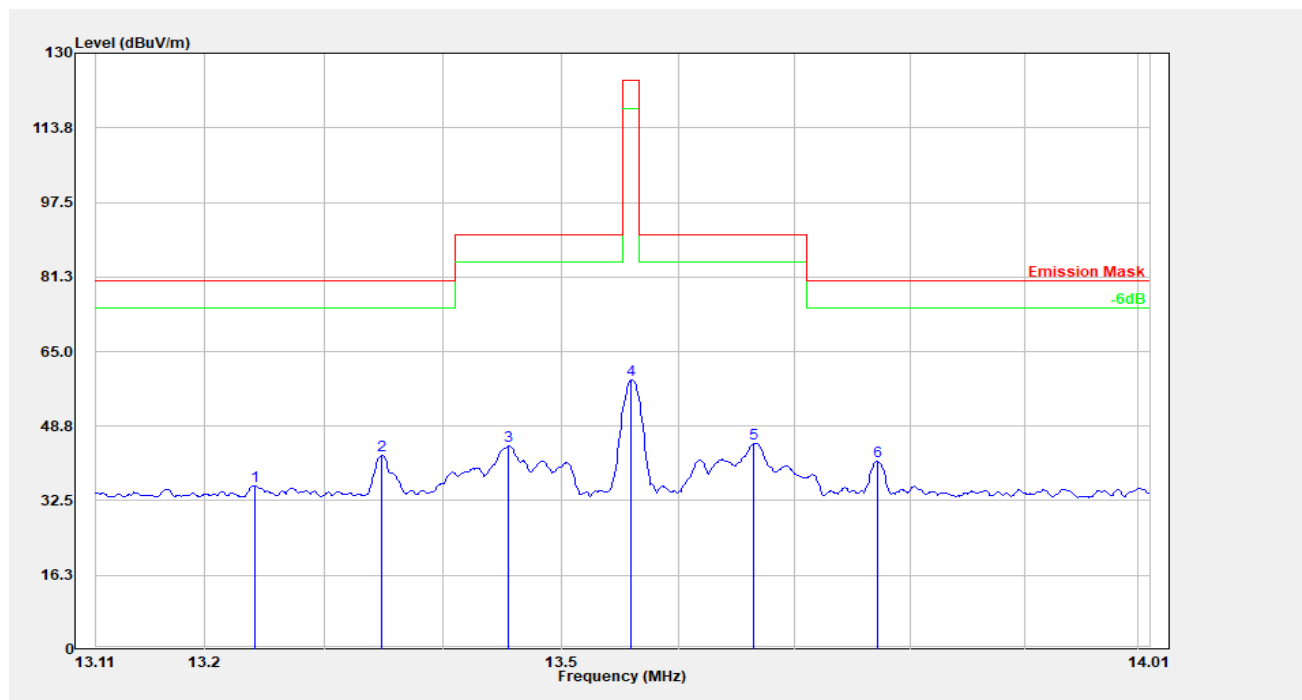
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.278	30.03	20.38	50.41	80.51	30.10	Peak
2	13.353	30.83	20.38	51.21	80.51	29.30	Peak
3	13.475	31.10	20.38	51.49	90.47	38.98	Peak
4	13.560	40.36	20.39	60.75	124.00	63.25	Peak
5	13.597	29.61	20.39	50.00	90.47	40.47	Peak
6	13.827	27.51	20.39	47.91	80.51	32.60	Peak

Parallel:

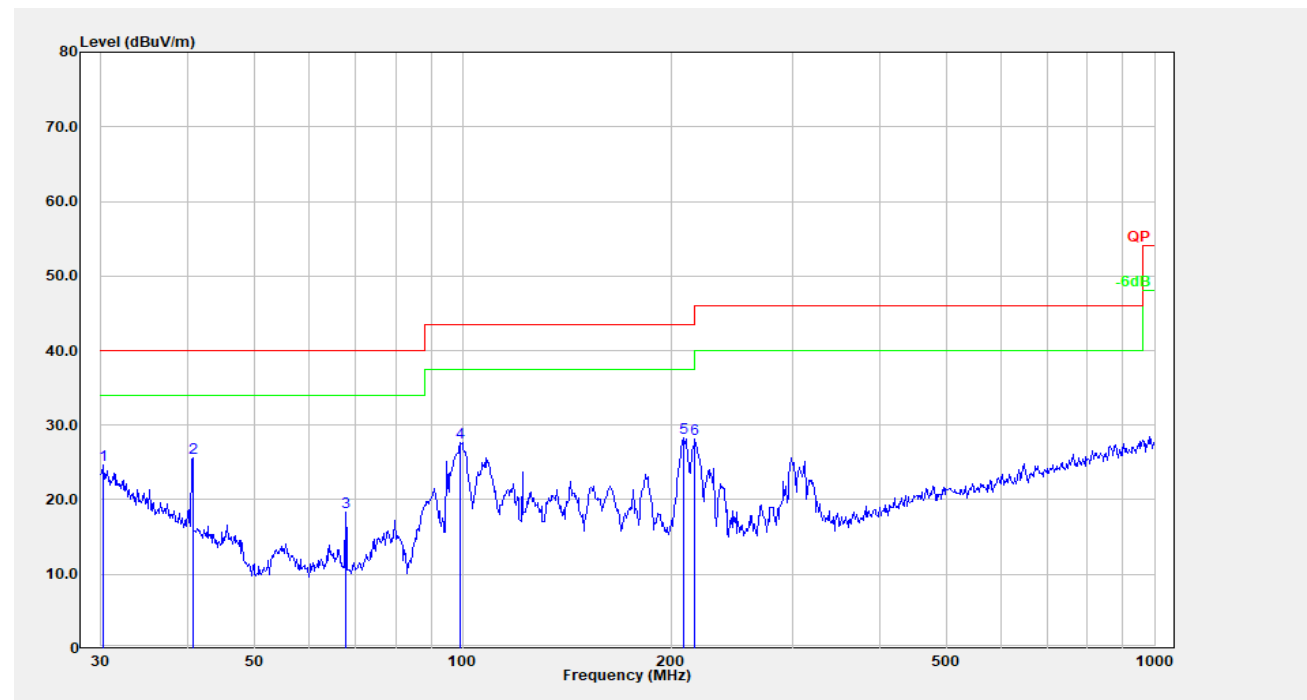
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	0.011	28.19	20.51	48.70	127.15	78.45	Peak
2	0.023	28.04	20.45	48.49	120.31	71.82	Peak
3	0.040	23.96	20.41	44.37	115.54	71.17	Peak
4	0.045	23.60	20.41	44.01	114.54	70.54	Peak
5	0.068	22.57	20.42	42.99	110.92	67.94	Peak
6	0.105	13.62	20.22	33.84	107.21	73.37	Peak



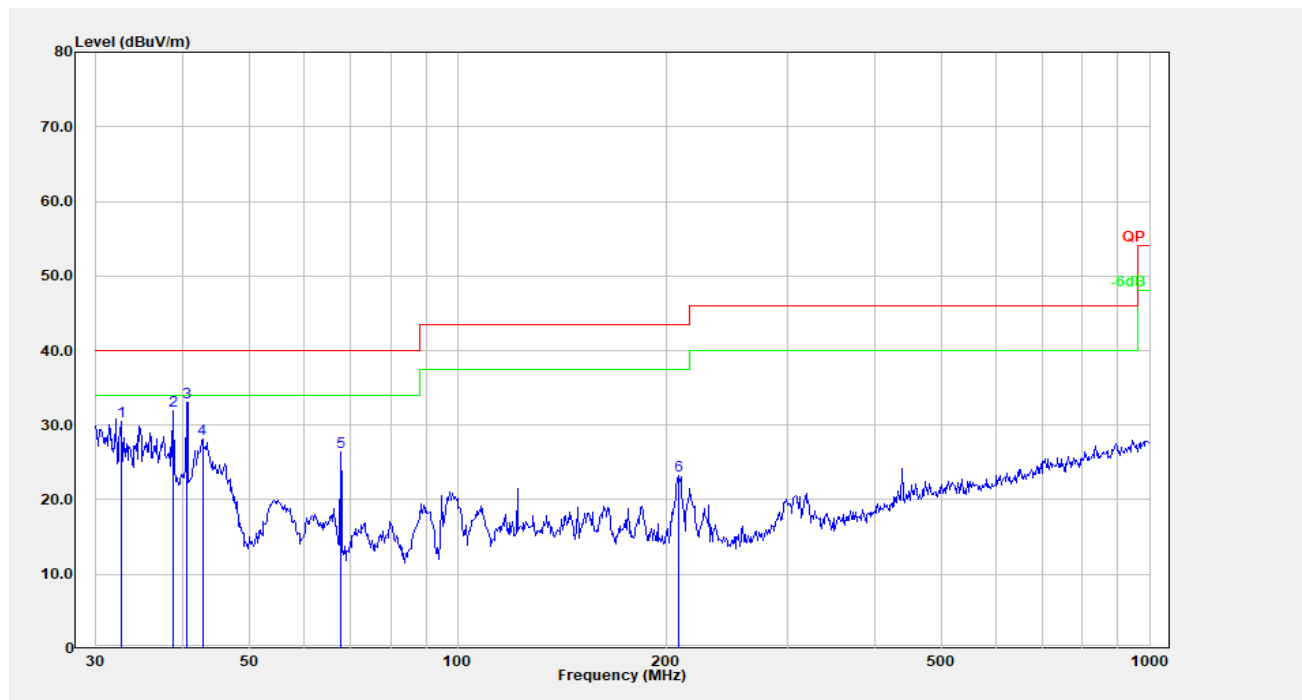
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.228	19.20	20.16	39.36	100.45	61.08	Peak
2	0.779	23.06	20.03	43.09	69.68	26.60	Peak
3	0.826	24.29	20.03	44.32	69.17	24.84	Peak
4	1.790	28.43	19.95	48.38	69.54	21.16	Peak
5	10.233	21.37	20.30	41.68	69.54	27.86	Peak
6	13.551	38.13	20.39	58.51	69.54	11.03	Peak



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	13.241	15.40	20.38	35.78	80.51	44.73	Peak
2	13.349	22.07	20.38	42.45	80.51	38.06	Peak
3	13.456	23.99	20.38	44.37	90.47	46.10	Peak
4	13.560	38.48	20.39	58.87	124.00	65.13	Peak
5	13.665	24.61	20.39	45.00	90.47	45.47	Peak
6	13.772	20.76	20.39	41.15	80.51	39.36	Peak

2) 30MHz-1GHz**Horizontal:**

No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	30.211	28.67	-3.95	24.72	40.00	15.28	Peak
2	40.702	37.54	-11.94	25.60	40.00	14.40	Peak
3	67.675	35.31	-16.94	18.37	40.00	21.63	Peak
4	99.180	42.52	-14.77	27.75	43.50	15.75	Peak
5	208.580	40.84	-12.58	28.26	43.50	15.24	Peak
6	216.783	40.94	-12.86	28.08	46.00	17.92	Peak

Vertical:

No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Detector
1	32.634	36.31	-5.83	30.49	40.00	9.51	Peak
2	38.752	42.46	-10.52	31.94	40.00	8.06	Peak
3	40.559	44.95	-11.86	33.09	40.00	6.91	Peak
4	42.750	41.26	-13.14	28.12	40.00	11.88	Peak
5	67.675	43.35	-16.94	26.41	40.00	13.59	Peak
6	208.580	35.79	-12.58	23.21	43.50	20.29	Peak

4.3 20 dB Emission Bandwidth

Serial Number:	CR22070052-RF-S1	Test Date:	2022-08-02
Test Site:	966-2	Test Mode:	Transmitting
Tester:	Gary Ling	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	29.5	Relative Humidity: (%)	49	ATM Pressure: (kPa)	100.3
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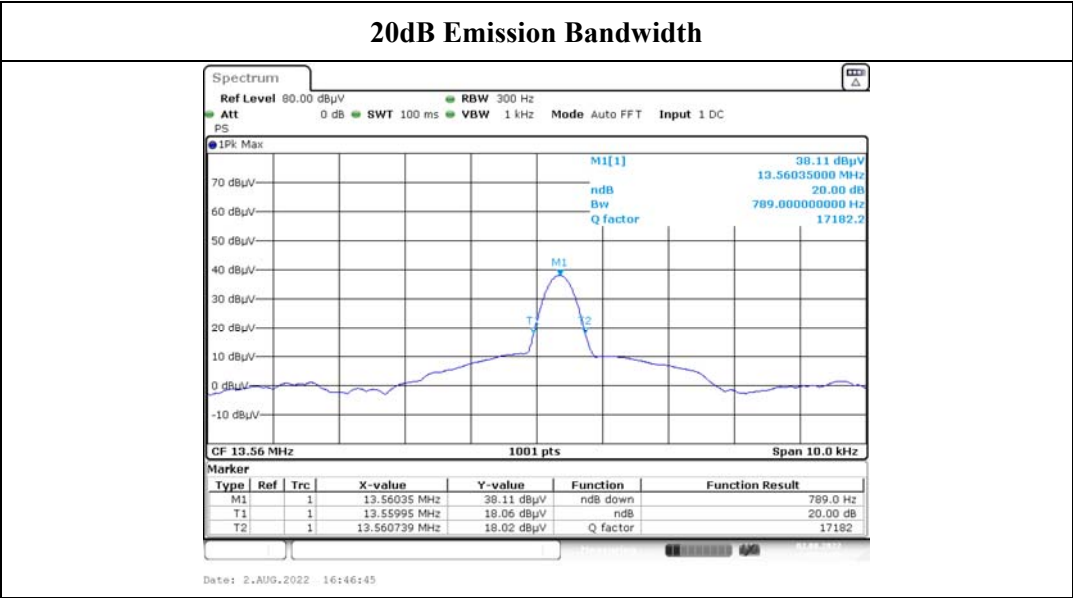
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
TESEQ	HF Loop Antenna	HLA6120	33561	2021-02-03	2024-02-02
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
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:

Test Frequency (MHz)	20 dB Bandwidth (Hz)
13.56	789



4.4 Frequency Stability

Serial Number:	CR22070052-RF-S1	Test Date:	2022-08-02
Test Site:	RF	Test Mode:	Transmitting
Tester:	Gary Ling	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	29.1	Relative Humidity: (%)	51	ATM Pressure: (kPa)	100.3
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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
R&S	EMI Test Receiver	ESR3	102724	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
YINSAIGE	Coaxial Cable	SS402	SJ0300001	Each time	N/A
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	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:

$f_0 = 13.56 \text{ MHz}$				
Temperature	Voltage	Measured frequency	Frequency Error	Limit
°C	V _{DC}	MHz	Hz	Hz
-20	3.85	13.5603841	384.1	±1356
-10		13.5603529	352.9	±1356
0		13.5603542	354.2	±1356
10		13.5603749	374.9	±1356
20		13.5603500	350.0	±1356
25		13.5603700	370.0	±1356
30		13.5603459	345.9	±1356
40		13.5603131	313.1	±1356
50		13.5603434	343.4	±1356
20	3.5	13.5603341	334.1	±1356
20	4.4	13.5603641	364.1	±1356

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