



TEST REPORT

Applicant: Ugreen Group Limited
Address: URGEEN Building, Longcheng Industrial Park,
Longguanxi Road, Longhua, ShenZhen, China
Equipment Type: UGREEN Finder Pro
Model Name: CM911
Brand Name: **UGREEN**
FCC ID: 2AQI5-CM911
Test Standard: 47 CFR Part 15 Subpart F
(refer to section 3.1)
Sample Arrival Date: Mar. 16, 2026
Test Date: Mar. 17, 2026 - Apr. 17, 2026
Date of Issue: May 25, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Julie Zhu**Checked by:** Li Ganming**Approved by:** Tolan Tu

(Testing Director)

Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>May 25, 2026</u>	<u>Initial Issue</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	601, Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☐ Building 2, Intelligent Connected Vehicle Industrial Park, No.55, Xiangshan Road, Luotian Community, Yanluo Sub-district, Bao'an District, Shenzhen, Guangdong
	☒ 1/F., Building B, Ganghongji High-Tech Intelligent Industrial Park, No.1008, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong
Accreditation Certificate	The laboratory is a testing organization accredited by FCC as a accredited testing laboratory. The designation number is CN1196.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Ugreen Group Limited
Address	UGREEN Building, Longcheng Industrial Park Longguanxi Road, Longhua, ShenZhen, China

2.2 Manufacturer Information

Manufacturer	Ugreen Group Limited
Address	UGREEN Building, Longcheng Industrial Park Longguanxi Road, Longhua, ShenZhen, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	UGREEN Finder Pro
Model Name Under Test	CM911
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	A01
Software Version	1.3.1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

Remark:

- Product Number (P/N) code in the below table, for marketing purpose, will be marked on the marking plate.

75322	75322EU	75322UK	75322DE	75322FR	75322US	75322KSA	75322JP
75322CN	75322A	75322B	75322C	75322D	75322E	75322F	75322G
75322H	75322I	75322J	75322K	75322L	75322M	75322N	75322O
75322P	75322Q	75322R	75322S	75322T	75322U	75322X	75322Y
75322P1	75322P2	75322P3	KC-75322	75322KC	75322SR	75322HC	

2.4 Technical Information

Network and Wireless connectivity	Bluetooth (BLE), UWB
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Type	UWB
Product Type	☐ Mobile ☒ Portable ☐ Fix Location
Operating Frequency	7.75 GHz-8.25 GHz
Tested Channel	7987.2 MHz
Antenna Type	Antenna-on-Chip
Antenna Gain	0.9 dBi

Note: The above EUT information in section 2.4 was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or user's manual.

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15 Subpart F	Ultra - Wideband Operation
2	ANSI C63.10-2020	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices

3.2 Test Verdict

No.	Description	FCC Part No.	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	--	Pass	Note ¹
2	Conducted Emission	15.207	5.2.4	Pass	--
3	Operational Limitations	15.519(a)	--	Pass	Note ²
4	UWB Bandwidth	15.519(b)	5.4.4	Pass	--
5	Radiated Emissions	15.519(c)/15.209	5.5.4	Pass	--
6	Radiated Emissions in GPS Bands	15.519(d)	5.6.4	Pass	--
7	Peak Emissions within a 50 MHz Bandwidth	15.519(e)	5.7.4	Pass	--

Note ¹: Please refer to section 5.1

Note ²: Please refer to section 5.3

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

During the measurement, the normal environmental conditions were within the listed ranges:

Relative Humidity	51% to 63%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+17.8°C to +26.3°C
Working Voltage of the EUT	NV (Normal Voltage)	5 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.12.25	2026.12.24
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Test Antenna-Bi-Log	Schwarzbeck	VULB 9163	01414	2023.11.03	2026.11.02
Test Antenna-Horn	Schwarzbeck	BBHA 9120D	02459	2023.10.26	2026.10.25
Test Antenna-Loop	Schwarzbeck	FMZB 1513-60	00015	2024.05.07	2026.05.06
Anechoic Chamber	YIHENG	C8-966	107	2024.05.12	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.12.26	2026.12.25
Filtering unit	balun	SU319F	LW-SZ19D0001F01	N/A	N/A
Switching unit	BALUN	SU319	LW-SZ19D0001S01	N/A	N/A
EMI Receiver	keysight	N9038B	MY61380132	2025.12.26	2026.12.25
LISN	SCHWARZBECK MESS-ELEKTRONIK	NSLK8127	01009	2025.07.15	2026.07.14
Shielded Enclosure	YiHeng Electronic Co., Ltd	4.3m*2.9m*2.4m	235	2024.11.05	2027.11.04

4.3 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

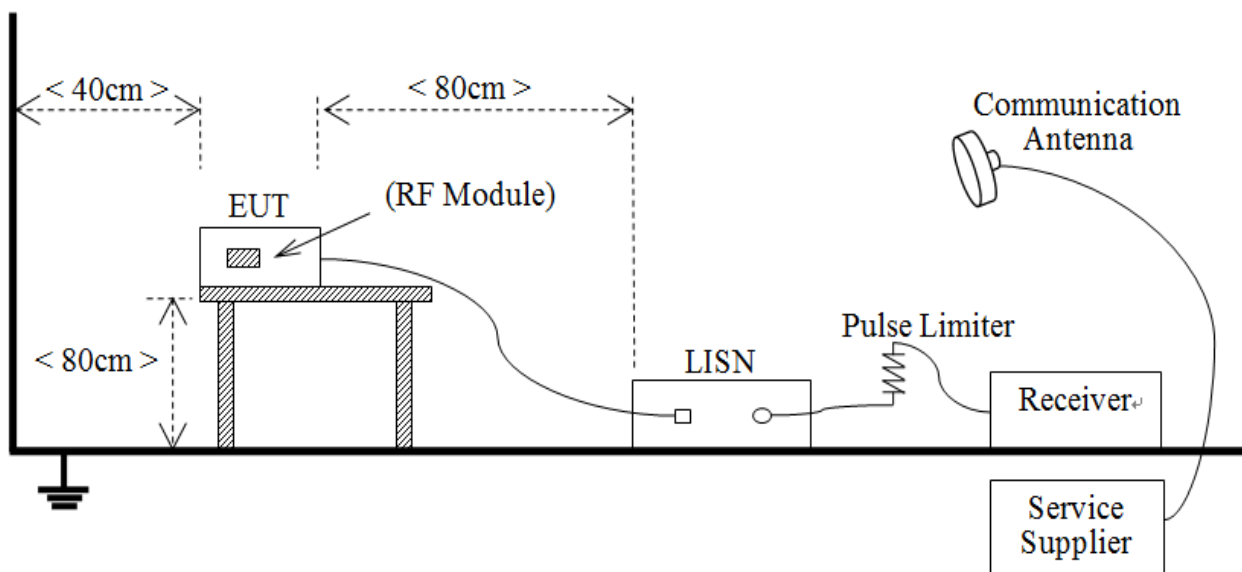
This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB

Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

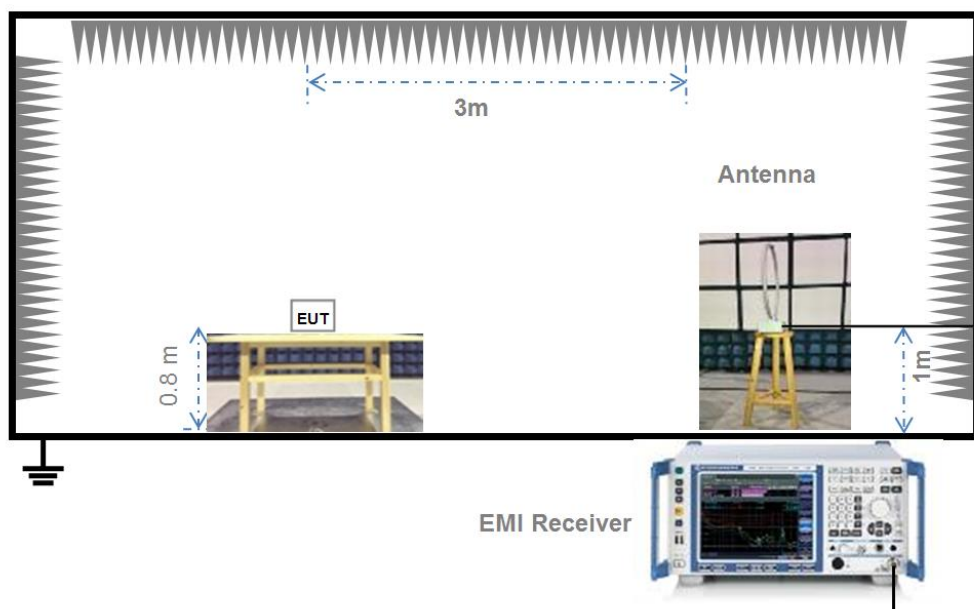
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



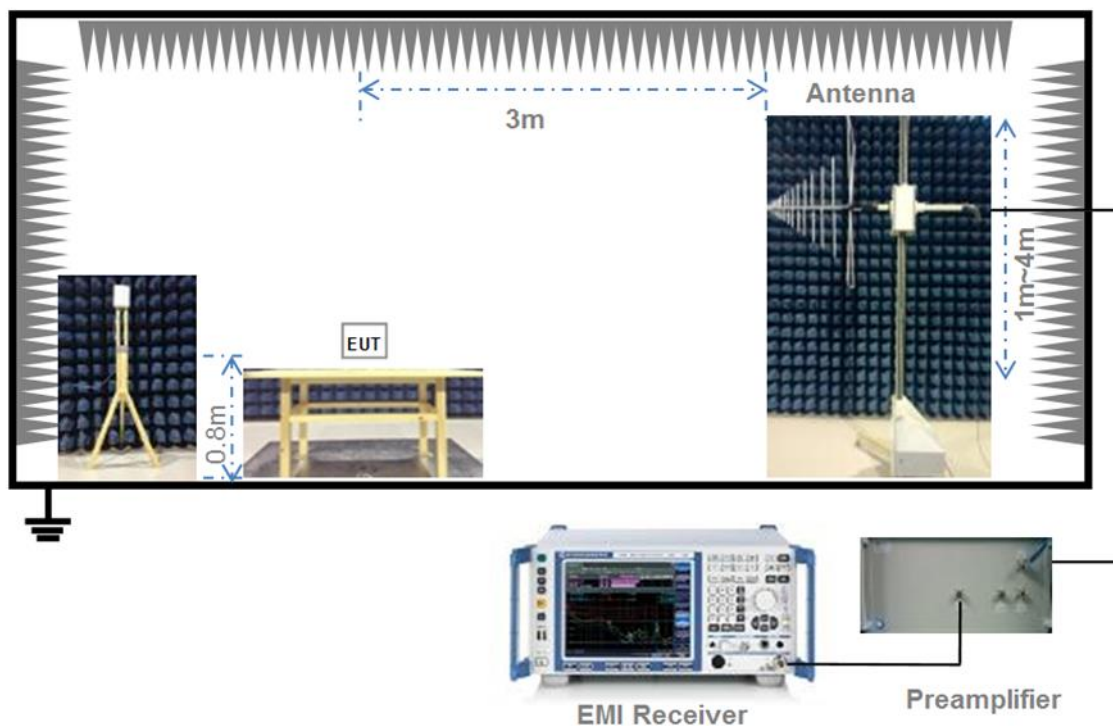
(Diagram 1)

4.4.2 For Radiated Test (Below 30 MHz)



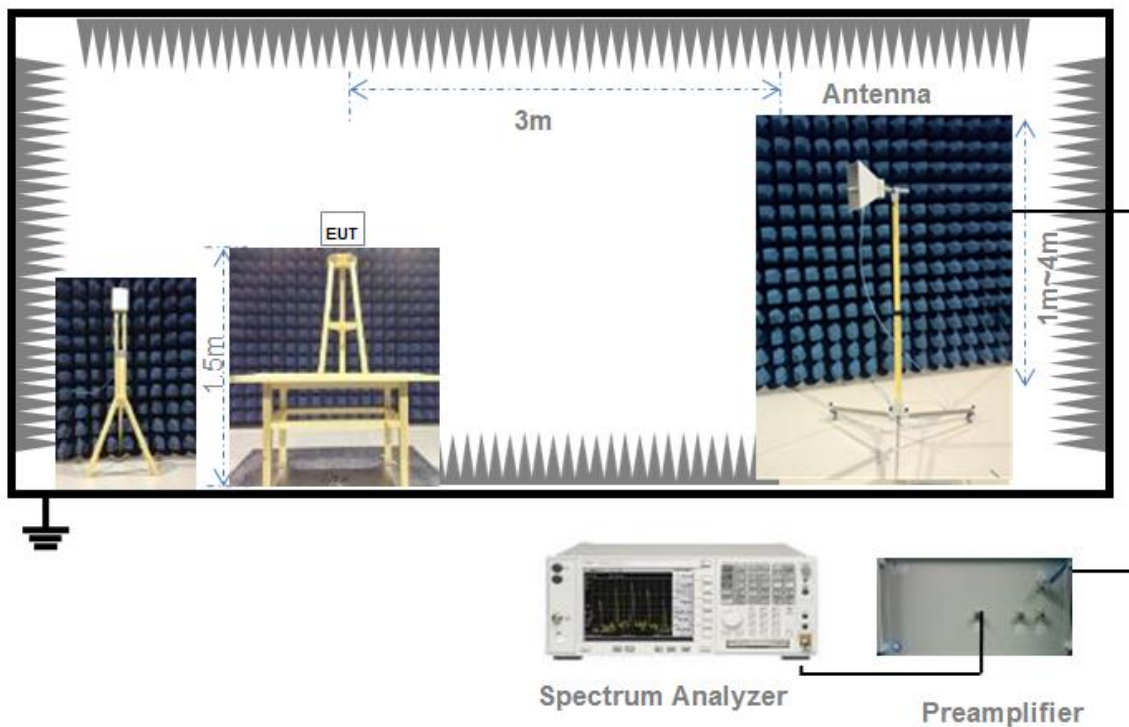
(Diagram 2)

4.4.3 For Radiated Test (30 MHz-1 GHz)



(Diagram 3)

4.4.4 For Radiated Test (Above 1 GHz)



(Diagram 4)

5 TEST ITEMS

5.1 Antenna Requirements

5.1.1 Relevant Standards

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, or § 15.221. 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.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product.	An embedded-in antenna design is used.

Reference Documents	Item
Photo	Please refer to the EUT Photo documents.

5.2 Conducted Emission

5.2.1 Limit

FCC §15.207

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 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 Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dB μ V)	
	Quai-peak	Average
0.15 - 0.50	66 to 56	56 to 46
0.50 - 5	56	46
0.50 - 30	60	50

5.2.2 Test Setup

See section 4.4.1 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX A.

5.2.3 Test Procedure

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Result

Note ¹: The EUT was tested in charging test mode.

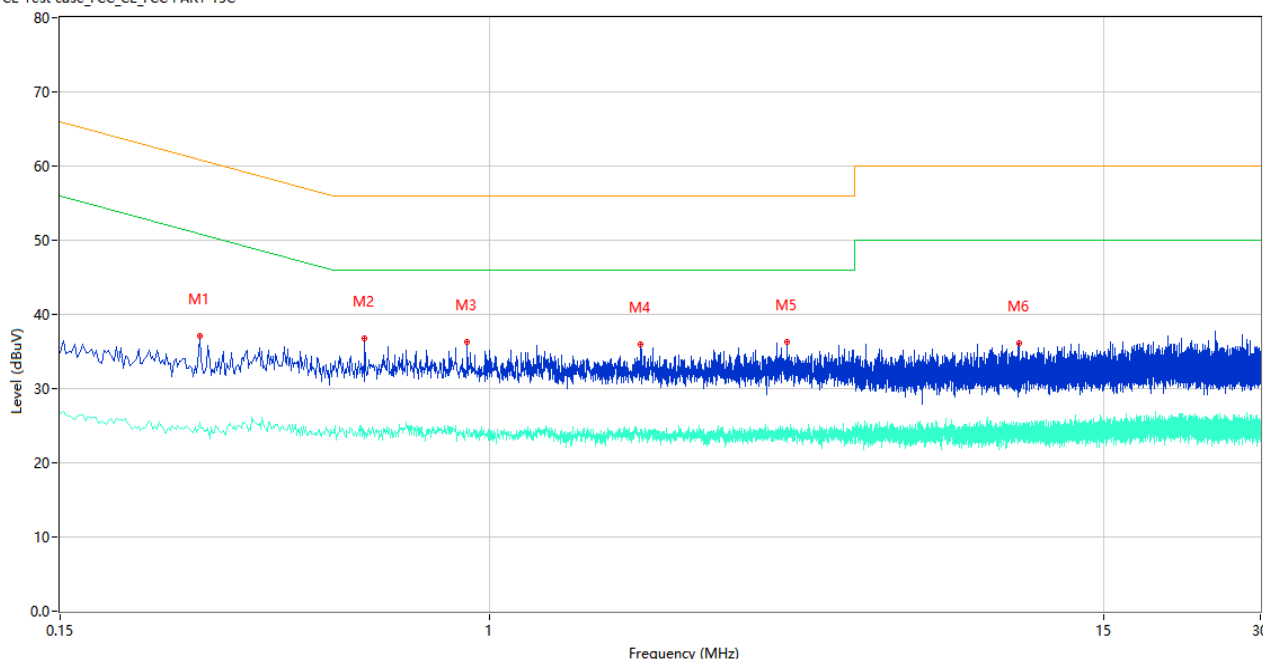
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration (120 VAC, 60 Hz) shown here.

Note ³: Results (dBuV) = Original reading level of Spectrum Analyzer (dBuV) + Factor (dB)

Test Data and Plots

PHASE L

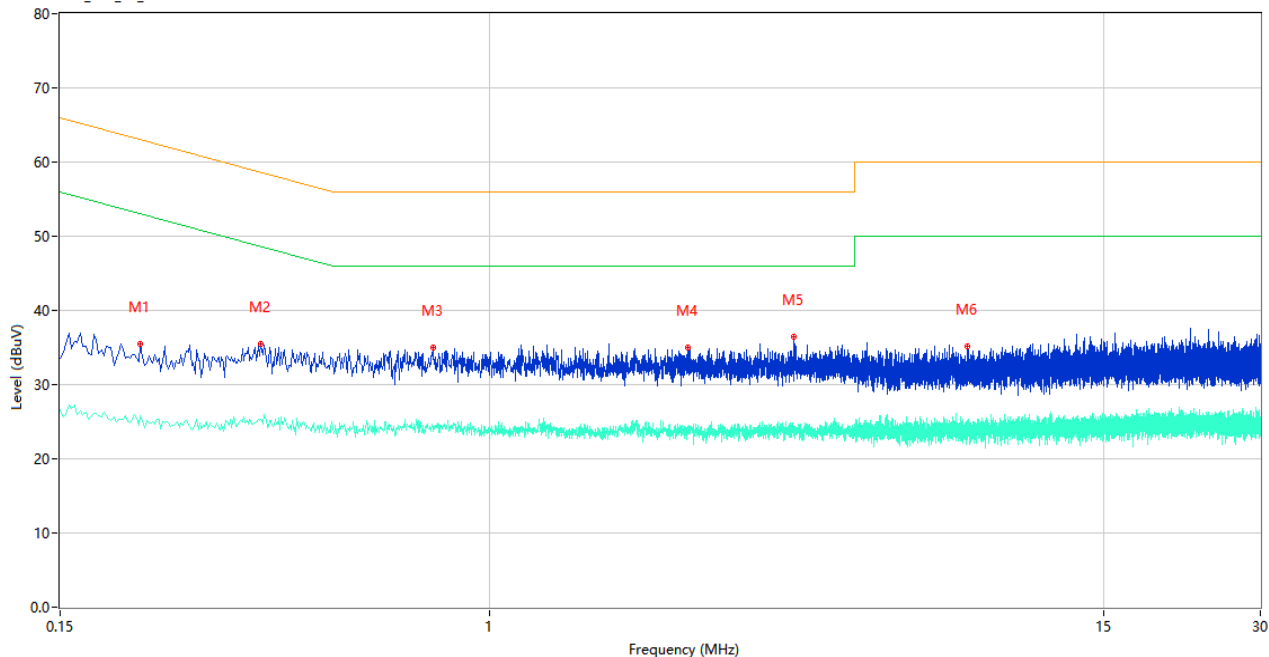
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.278	37.16	9.82	60.88	23.72	Peak	L	Pass
1**	0.278	25.44	9.82	50.88	25.44	AV	L	Pass
2	0.576	36.79	10.16	56.00	19.21	Peak	L	Pass
2**	0.576	24.24	10.16	46.00	21.76	AV	L	Pass
3	0.906	36.22	10.23	56.00	19.78	Peak	L	Pass
3**	0.906	24.36	10.23	46.00	21.64	AV	L	Pass
4	1.942	35.96	10.29	56.00	20.04	Peak	L	Pass
4**	1.942	24.10	10.29	46.00	21.90	AV	L	Pass
5	3.712	36.34	10.37	56.00	19.66	Peak	L	Pass
5**	3.712	23.51	10.37	46.00	22.49	AV	L	Pass
6	10.334	36.19	10.56	60.00	23.81	Peak	L	Pass
6**	10.334	24.16	10.56	50.00	25.84	AV	L	Pass

PHASE N

CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.214	35.51	9.83	63.05	27.54	Peak	N	Pass
1**	0.214	25.77	9.83	53.05	27.28	AV	N	Pass
2	0.364	35.42	10.76	58.64	23.22	Peak	N	Pass
2**	0.364	25.30	10.76	48.64	23.34	AV	N	Pass
3	0.778	35.06	10.43	56.00	20.94	Peak	N	Pass
3**	0.778	24.28	10.43	46.00	21.72	AV	N	Pass
4	2.402	35.06	10.35	56.00	20.94	Peak	N	Pass
4**	2.402	24.35	10.35	46.00	21.65	AV	N	Pass
5	3.828	36.43	10.36	56.00	19.57	Peak	N	Pass
5**	3.828	24.40	10.36	46.00	21.60	AV	N	Pass
6	8.238	35.13	10.61	60.00	24.87	Peak	N	Pass
6**	8.238	23.40	10.61	50.00	26.60	AV	N	Pass

5.3 Operational Limitations

5.3.1 Relevant Standards

FCC §15.519(a)(1)

A UWB device operating under the provisions of this section shall transmit only when it is sending information to an associated receiver. The UWB intentional radiator shall cease transmission within 10 seconds unless it receives an acknowledgement from the associated receiver that its transmission is being received. An acknowledgment of reception must continue to be received by the UWB intentional radiator at least every 10 seconds or the UWB device must cease transmitting.

The client has been informed of this requirement.

FCC §15.519(a)(2)

The use of antennas mounted on outdoor structures, e.g., antennas mounted on the outside of a building or on a telephone pole, or any fixed outdoors infrastructure is prohibited. Antennas may be mounted only on the hand held UWB device.

The client has been informed of this requirement.

FCC §15.519(a)(3)

UWB devices operating under the provisions of this section may operate indoors or outdoors.

The client has been informed of this requirement.

5.3.2 Test Result

Test data

Measured Channel (MHz)	Transmission Time (ms)	Limit (s)	Verdict
7987.2	0.1812	≤10	Pass

5.4 UWB Bandwidth

5.4.1 Limit

FCC §15.503(d)

Ultra-wideband (UWB) transmitter. An intentional radiator that, at any point in time, has a fractional bandwidth equal to or greater than 0.20 or has a UWB bandwidth equal to or greater than 500 MHz, regardless of the fractional bandwidth.

FCC §15.519(b)

The UWB bandwidth of a UWB system operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.

5.4.2 Test Setups

See section 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.4.3 Test Procedure

Use the following spectrum analyzer settings:

RBW = 1 MHz

VBW $\geq$ 3 MHz

Sweep = auto

Detector function = RMS

Trace = max hold

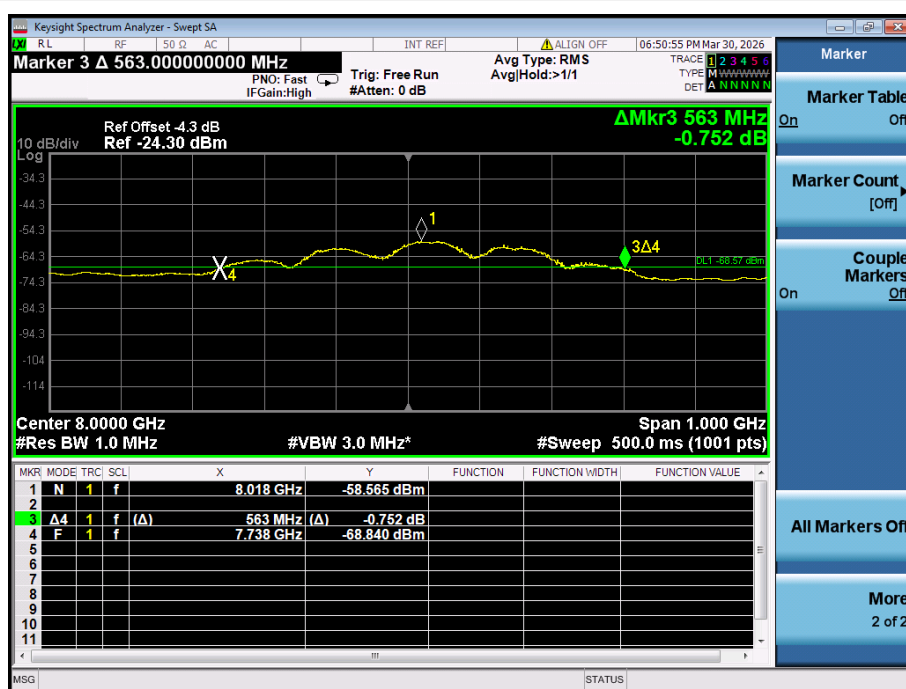
5.4.4 Test Result

Test Data

Channel (MHz)	F _M (MHz)	F _L (MHz)	F _H (MHz)	UWB Bandwidth (MHz)	Limit (MHz)	Verdict
7987.2	8013	7738	8301	563	Fractional bandwidth ≥ 0.2 or UWB Bandwidth ≥ 500 MHz 10 dB bandwidth contained between 3100 to 10600 MHz	Pass

Test Plot

7987.2 MHz



5.5 Radiated Emissions

5.5.1 Limit

FCC §15.519(c)

The radiated emissions at or below 960 MHz from a device operating under the provisions of this section shall not exceed the emission levels in §15.209. The radiated emissions above 960 MHz from a device operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of 1 MHz:

Frequency in MHz	EIPR in dBm
960–1610	-75.3
1610–1990	-63.3
1990–3100	-61.3
3100–10600	-41.3
Above 10600	-61.3

FCC §15.209

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 ($\mu\text{V}/\text{m}$)	Measurement Distance(m)
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

5.5.2 Test Setups

See section 4.4.2 to 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.5.3 Test Procedure

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The height of the antenna was varied from 1 to 4 meters. For each suspected emissions, the antenna tower was scan (from 1m to 4m) and the the turntables was turned (from 0° to 360°) to find the maximum reading.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

9 kHz to 960 MHz:

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz

VBW = 300 kHz

Sweep time = auto

Detector function = peak(Margin which is less than 3 dB will be repeated one by one using the quasi-peak)

Trace = max hold

960 MHz to 40 GHz:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW = 3 MHz

Sweep time = 1s

Detector function = RMS

Trace = max hold

5.5.4 Test Result

Note ¹: The low frequency, which started from 9 kHz to 30 MHz, was pre-scanned and the result which was 20 dB lower than the limit line per 15.209 was not reported.

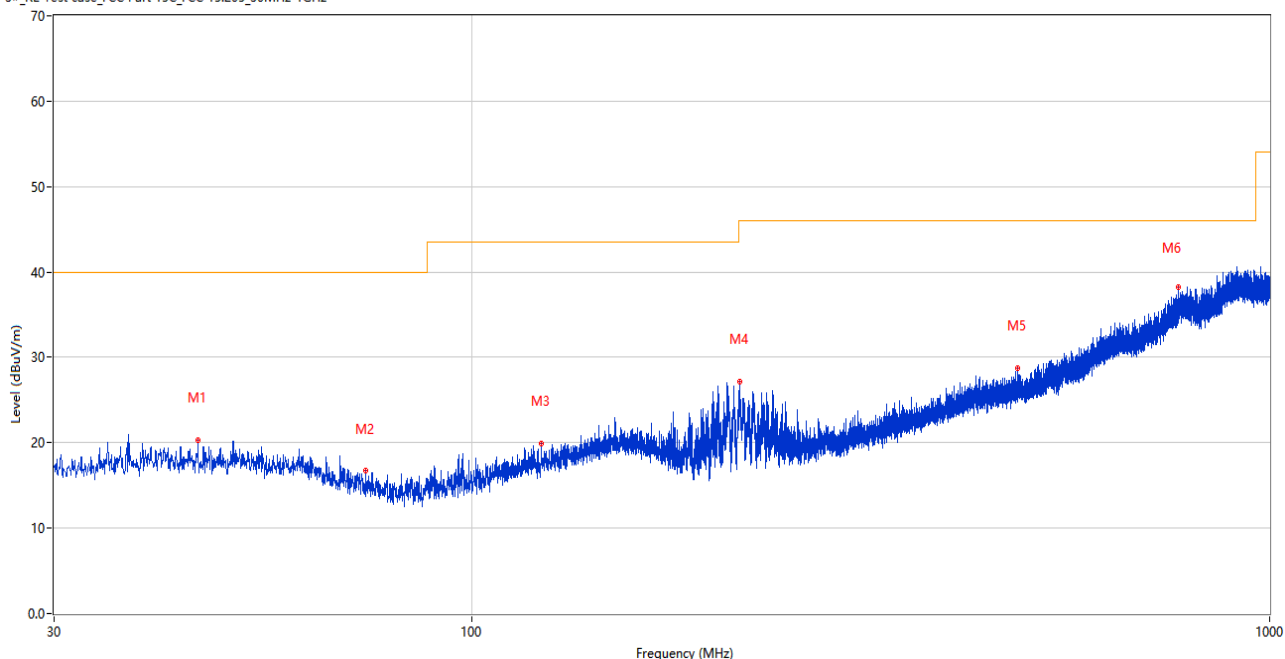
Note ²: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Note 3: The spurious above 18G is noise only, do not show on the report.

Test Data and Plots

30 MHz to 1 GHz, ANT H

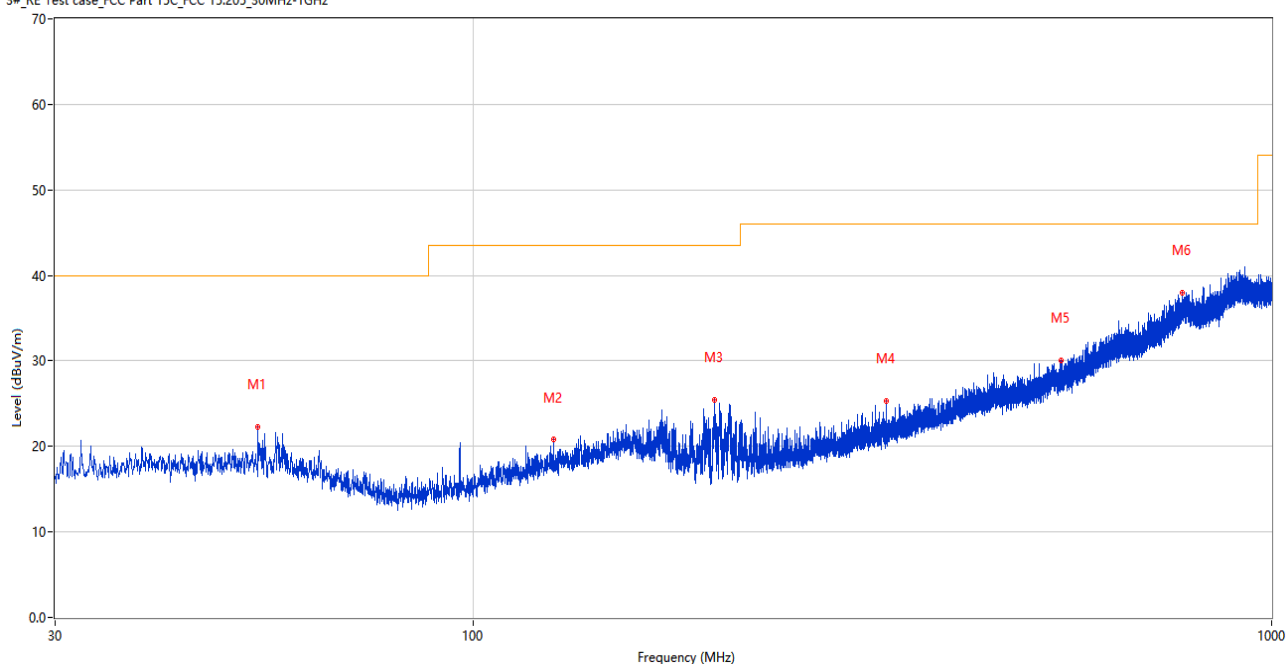
3#_RE Test case_FCC Part 15C_FCC 15.205_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	45.423	20.26	40.0	19.74	Peak	82.00	150	Horizontal	Pass
2	73.747	16.68	40.0	23.32	Peak	258.00	150	Horizontal	Pass
3	122.393	19.89	43.5	23.61	Peak	185.00	150	Horizontal	Pass
4	216.968	27.18	46.0	18.82	Peak	65.00	150	Horizontal	Pass
5	483.378	28.78	46.0	17.22	Peak	271.00	150	Horizontal	Pass
6	769.286	38.17	46.0	7.83	Peak	358.00	150	Horizontal	Pass

30 MHz to 1 GHz, ANT V

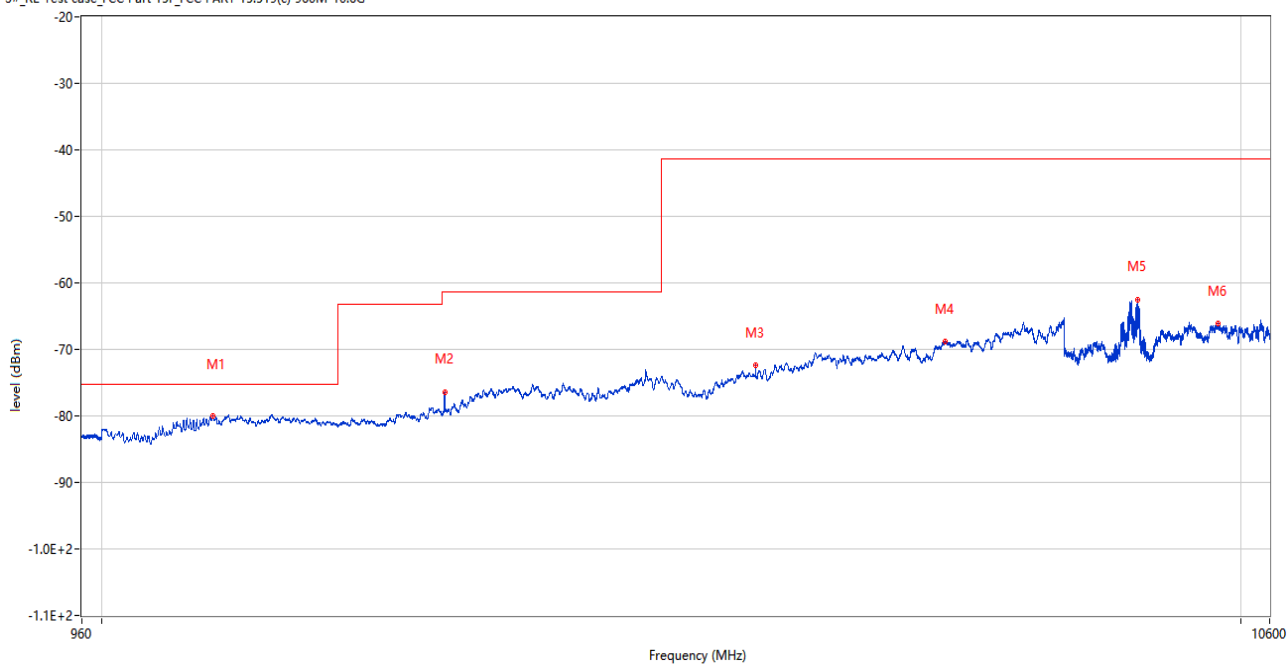
3#_RE Test case_FCC Part 15C_FCC 15.205_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.813	22.24	40.0	17.76	Peak	249.00	150	Vertical	Pass
2	126.321	20.77	43.5	22.73	Peak	0.00	150	Vertical	Pass
3	200.526	25.48	43.5	18.02	Peak	36.00	150	Vertical	Pass
4	329.148	25.37	46.0	20.63	Peak	139.00	150	Vertical	Pass
5	544.828	30.03	46.0	15.97	Peak	0.00	150	Vertical	Pass
6	772.196	37.95	46.0	8.05	Peak	346.00	150	Vertical	Pass

960 MHz to 1 GHz, ANT H

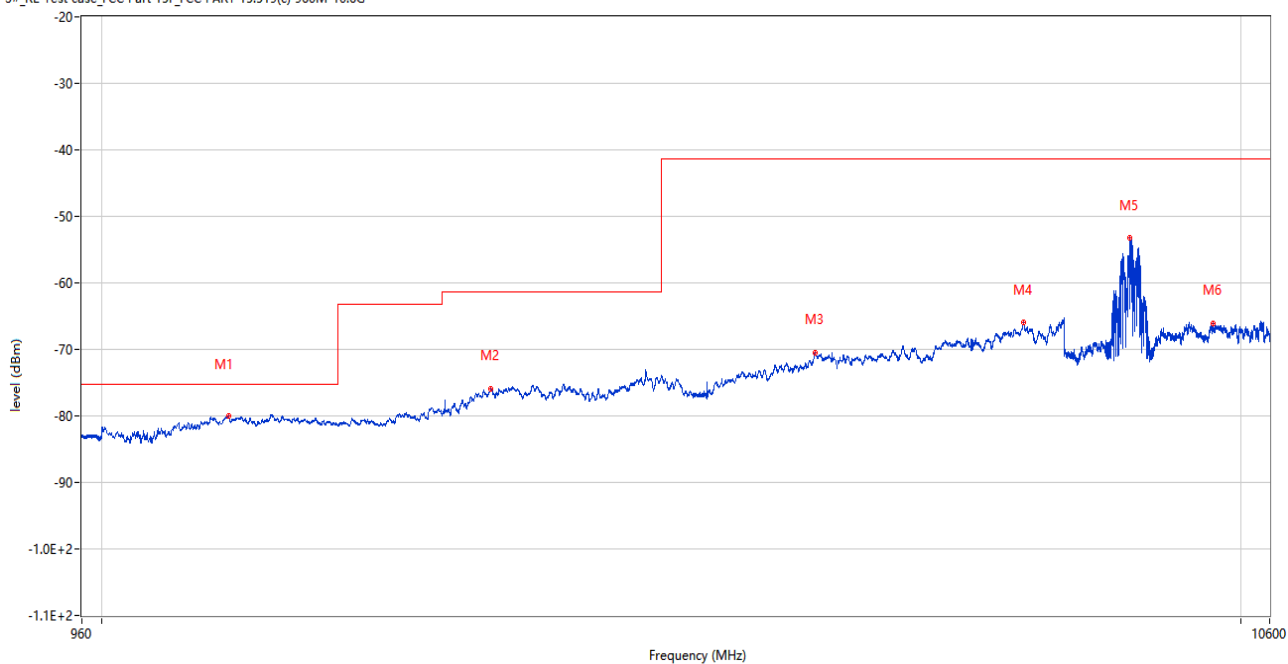
3#_RE Test case_FCC Part 15F_FCC PART 15.519(c) 960M-10.6G



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
1252.000	-79.97	-75.3	4.67	123.00	Horizontal	Horizontal	Pass
1999.000	-76.43	-61.3	15.13	340.00	Horizontal	Horizontal	Pass
3750.000	-72.40	-41.3	31.10	247.00	Horizontal	Horizontal	Pass
5495.000	-68.85	-41.3	27.55	363.00	Horizontal	Horizontal	Pass
8124.100	-62.48	-41.3	21.18	24.00	Horizontal	Horizontal	Pass
9540.700	-66.18	-41.3	24.88	195.00	Horizontal	Horizontal	Pass

960 MHz to 1 GHz, ANT V

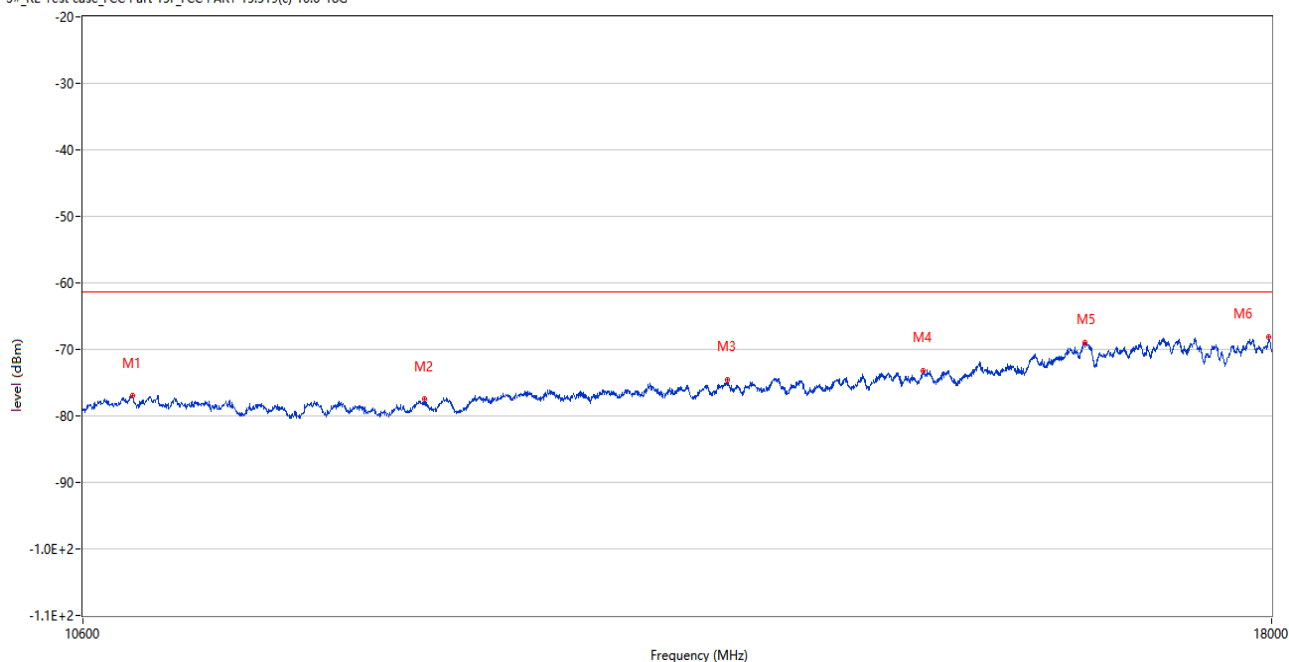
3#_RE Test case_FCC Part 15F_FCC PART 15.519(c) 960M-10.6G



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
1291.500	-80.04	-75.3	4.74	286.00	Vertical	Horizontal	Pass
2194.500	-76.01	-61.3	14.71	336.00	Vertical	Horizontal	Pass
4226.000	-70.56	-41.3	29.26	86.00	Vertical	Horizontal	Pass
6448.000	-65.95	-41.3	24.65	221.00	Vertical	Horizontal	Pass
7990.000	-53.23	-41.3	11.93	19.00	Vertical	Horizontal	Pass
9460.600	-66.08	-41.3	24.78	277.00	Vertical	Horizontal	Pass

1 GHz to 18 GHz, ANT H

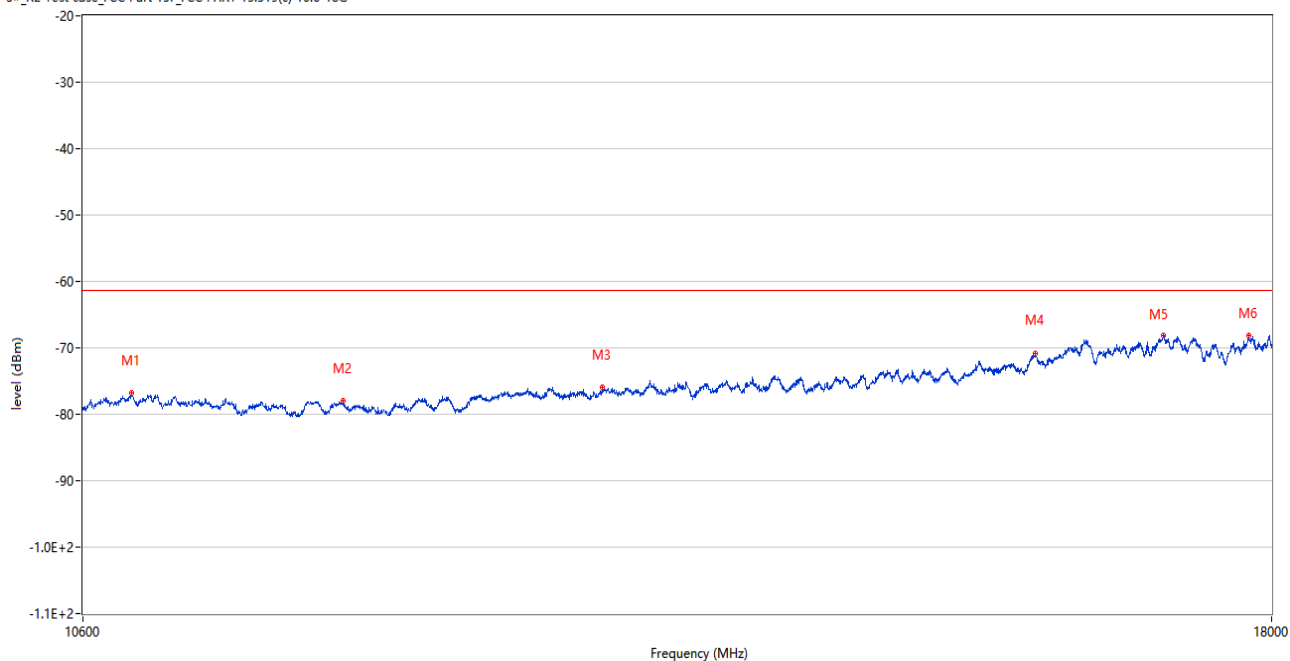
3#_RE Test case_FCC Part 15F_FCC PART 15.519(c) 10.6-18G



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
10838.651	-76.97	-61.3	15.67	360.00	Horizontal	Horizontal	Pass
12344.549	-77.53	-61.3	16.23	359.00	Horizontal	Horizontal	Pass
14122.401	-74.57	-61.3	13.27	212.00	Horizontal	Horizontal	Pass
15411.849	-73.30	-61.3	12.00	112.00	Horizontal	Horizontal	Pass
16562.551	-68.98	-61.3	7.68	197.00	Horizontal	Horizontal	Pass
17979.650	-68.08	-61.3	6.78	142.00	Horizontal	Horizontal	Pass

1 GHz to 18 GHz, ANT V

3#_RE Test case_FCC Part 15F_FCC PART 15.519(c) 10.6-18G



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
10833.100	-76.84	-61.3	15.54	82.00	Vertical	Horizontal	Pass
11904.250	-77.97	-61.3	16.67	321.00	Vertical	Horizontal	Pass
13360.201	-76.00	-61.3	14.70	145.00	Vertical	Horizontal	Pass
16198.100	-70.77	-61.3	9.47	71.00	Vertical	Horizontal	Pass
17154.551	-68.15	-61.3	6.85	259.00	Vertical	Horizontal	Pass
17814.999	-68.15	-61.3	6.85	78.00	Vertical	Horizontal	Pass

5.6 Radiated Emissions in GPS Bands

5.6.1 Limit

FCC §15.519(d)

In addition to the radiated emission limits specified in the table in paragraph (c) of this section, UWB transmitters operating under the provisions of this section shall not exceed the following average limits when measured using a resolution bandwidth of no less than 1 kHz:

Frequency in MHz	EIPR in dBm
1164–1240	-85.3
1559–1610	-85.3

5.6.2 Test Setups

See section 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.6.3 Test Procedure

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The height of the antenna was varied from 1 to 4 meters. For each suspected emissions, the antenna tower was scan (from 1m to 4m) and the the turntables was turned (from 0° to 360°) to find the maximum reading.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 kHz

VBW = 3 kHz

Sweep time = 1s

Detector function = RMS

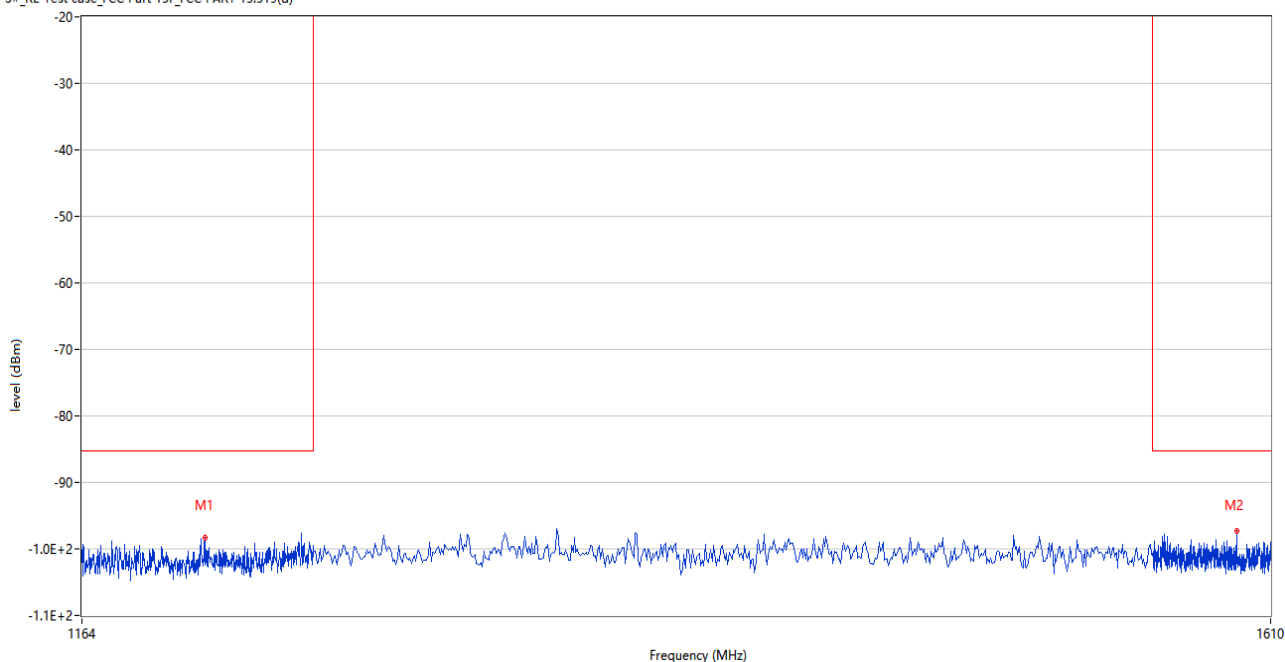
Trace = max hold

5.6.4 Test Result

Test Data and Plots

1.164 GHz to 1.61 GHz, ANT H

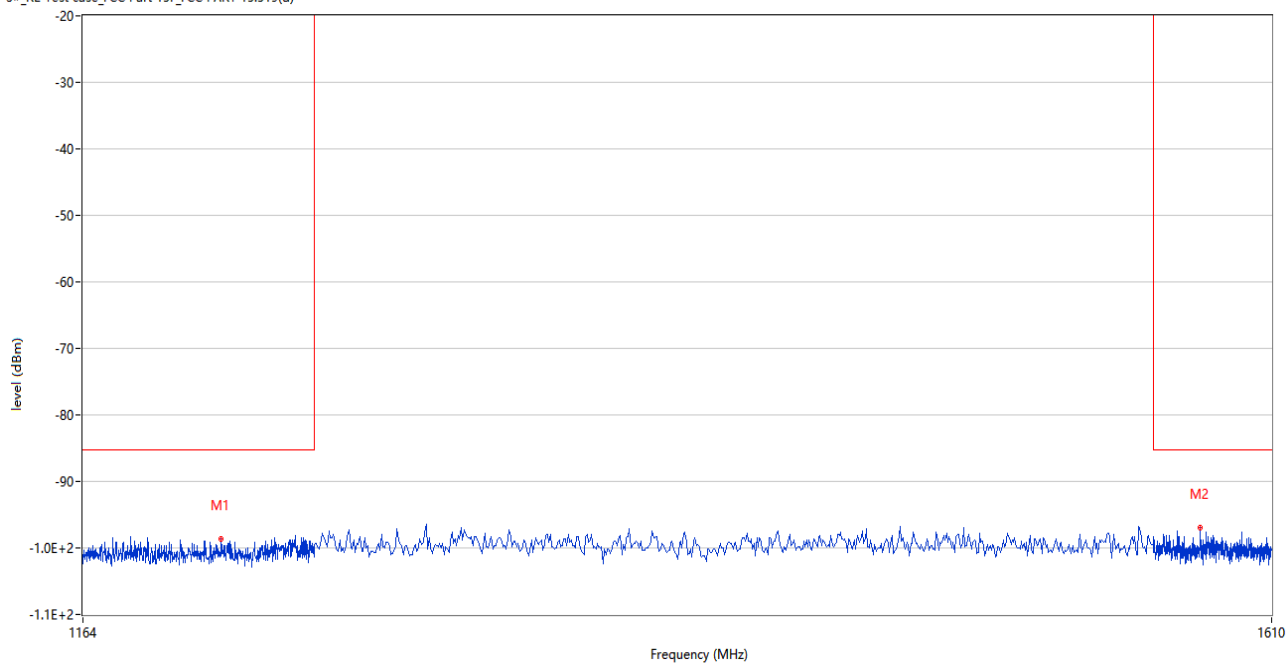
3#_RE Test case_FCC Part 15F_FCC PART 15.519(d)



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
1203.647	-98.37	-85.3	13.07	360.00	Horizontal	Horizontal	Pass
1595.125	-97.30	-85.3	12.00	360.00	Horizontal	Horizontal	Pass

1.164 GHz to 1.61 GHz, ANT V

3#_RE Test case_FCC Part 15F_FCC PART 15.519(d)



Frequency (MHz)	Result (dBm)	Limit (dBm)	Margin (dB)	Table (o)	ANT	EUT	Verdict
1208.840	-98.59	-85.3	13.29	133.00	Vertical	Horizontal	Pass
1578.975	-96.90	-85.3	11.60	299.00	Vertical	Horizontal	Pass

5.7 Peak Emissions within a 50MHz Bandwidth

5.7.1 Limit

FCC §15.519(e)

There is a limit on the peak level of the emissions contained within a 50 MHz bandwidth centered on the frequency at which the highest radiated emission occurs, fM. That limit is 0 dBm EIRP. It is acceptable to employ a different resolution bandwidth, and a correspondingly different peak emission limit, following the procedures described in §15.521.

It is acceptable to employ an RBW of less than 50 MHz (but no less than 1 MHz) when performing the required peak power measurements. When this approach is employed, the peak emissions EIRP limit (0 dBm / 50 MHz) is converted to a limit commensurate with the RBW by employing a $[20 \log (RBW/50 \text{ MHz})]$ relationship. For example, the peak power limit could be expressed in a 1 MHz bandwidth as follows in Equation:

$$\text{EIRP}_{1 \text{ MHz}} = \text{EIRP}_{50 \text{ MHz}} + 20 \log (1 \text{ MHz} / 50 \text{ MHz}) = 0 \text{ dBm} + (-34 \text{ dBm}) = -34 \text{ dBm}$$

5.7.2 Test Setups

See section 4.4.4 for test setup description for the antenna port. The photo of test setup please refer to ANNEX A.

5.7.3 Test Procedure

The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The height of the antenna was varied from 1 to 4 meters. For each suspected emissions, the antenna tower was scan (from 1m to 4m) and the the turntables was turned (from 0° to 360°) to find the maximum reading.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW = 3 MHz

Sweep = auto

Detector function = peak

Trace = max hold

5.7.4 Test Result

Test Data

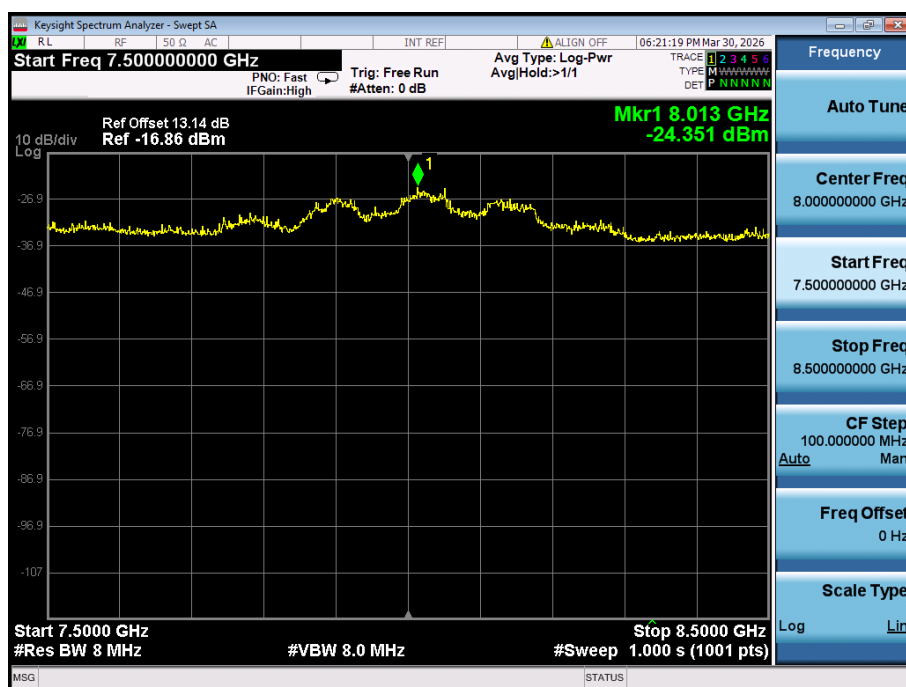
Note: $EIRP_{50\text{ MHz}} = EIRP_{8\text{ MHz}} + 20\log(8\text{ MHz}/50\text{ MHz})$

Measured Channel (MHz)	Maximum value of peak power (dBm/8MHz)	Maximum value of peak power (dBm/50MHz)	Limit (dBm/50MHz)	Verdict
7987.2	-24.351	-8.431	≤ 0	Pass

Test Plot

Maximum value of peak power

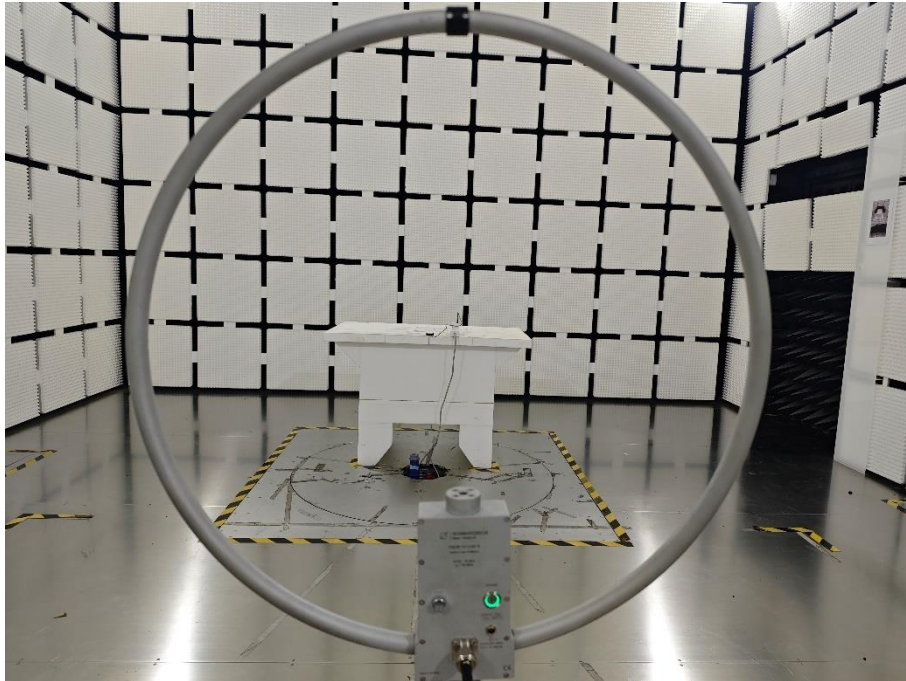
7987.2 MHz



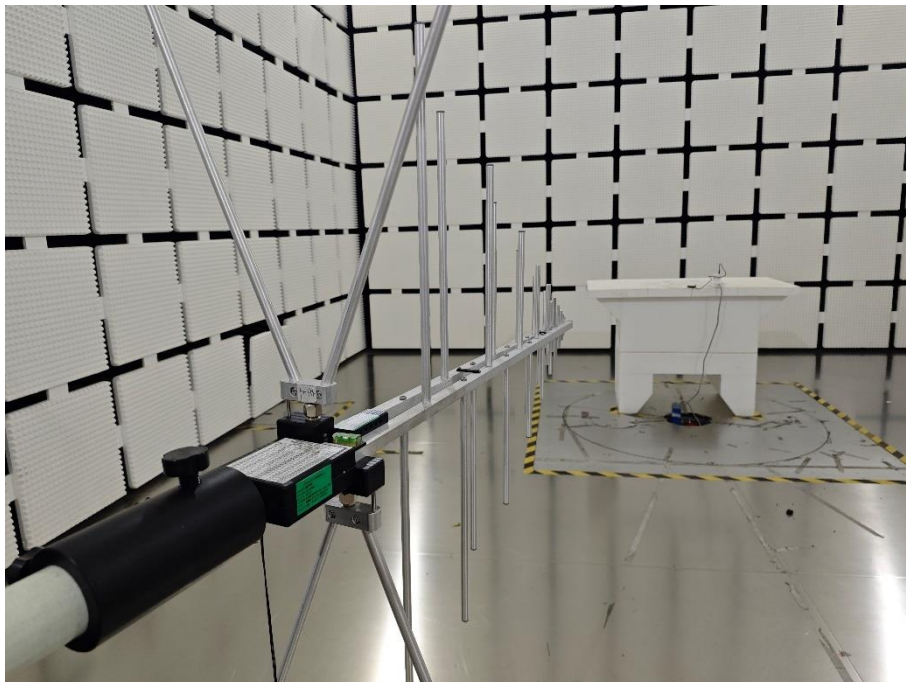
ANNEX A TEST SETUP PHOTOS

1 Radiated Test Photo

Below 30MHz



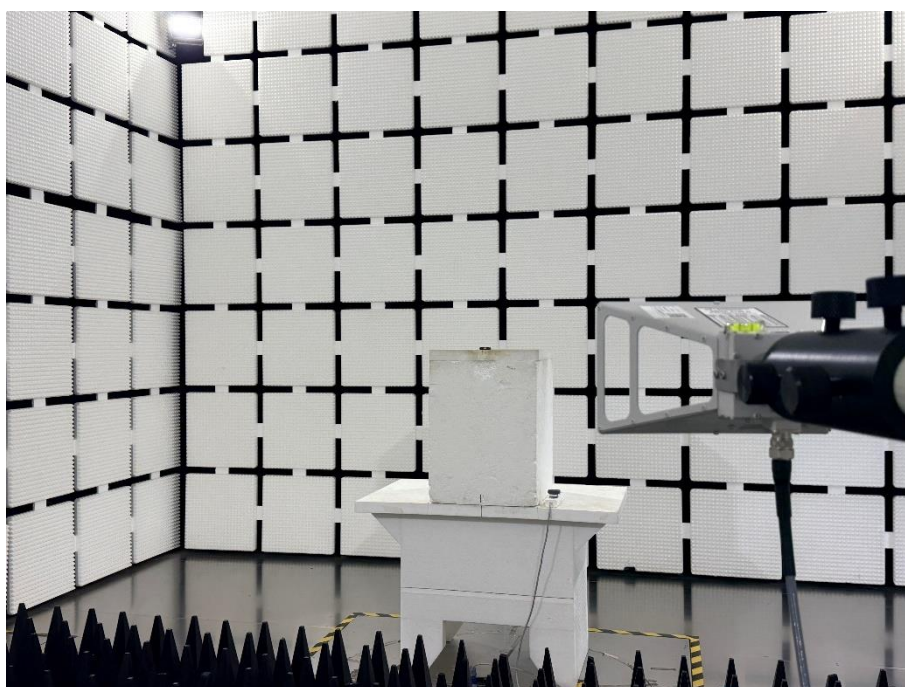
30MHz-1GHz



Close-up



Above 1GHz



Close-up

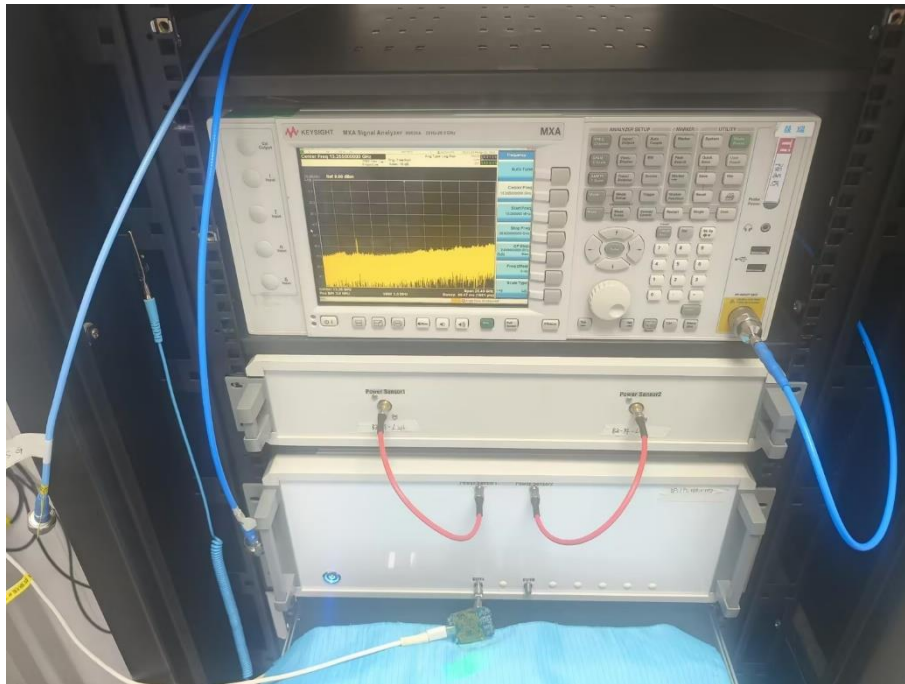


2 Conducted Test Photo

Conducted Test



Close-up



3 Conducted Emission

Photo 1



Photo 2



ANNEX B EUT EXTERNAL PHOTOS

FRONT VIEW OF EUT



REAR VIEW OF EUT



LEFT VIEW OF EUT



RIGHT VIEW OF EUT



TOP VIEW OF EUT



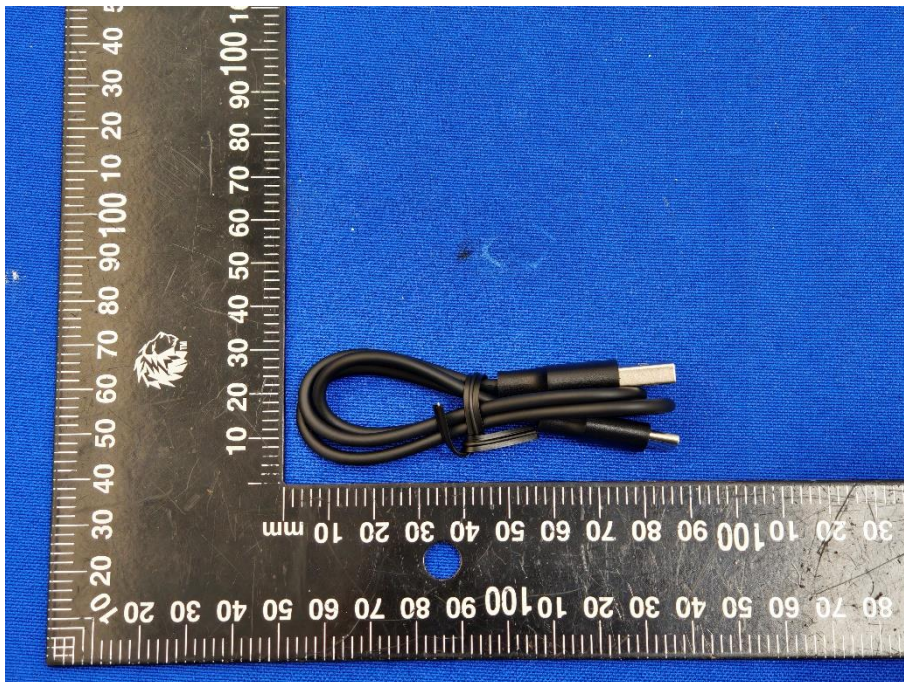
BOTTOM VIEW OF EUT



CLOSE-UP

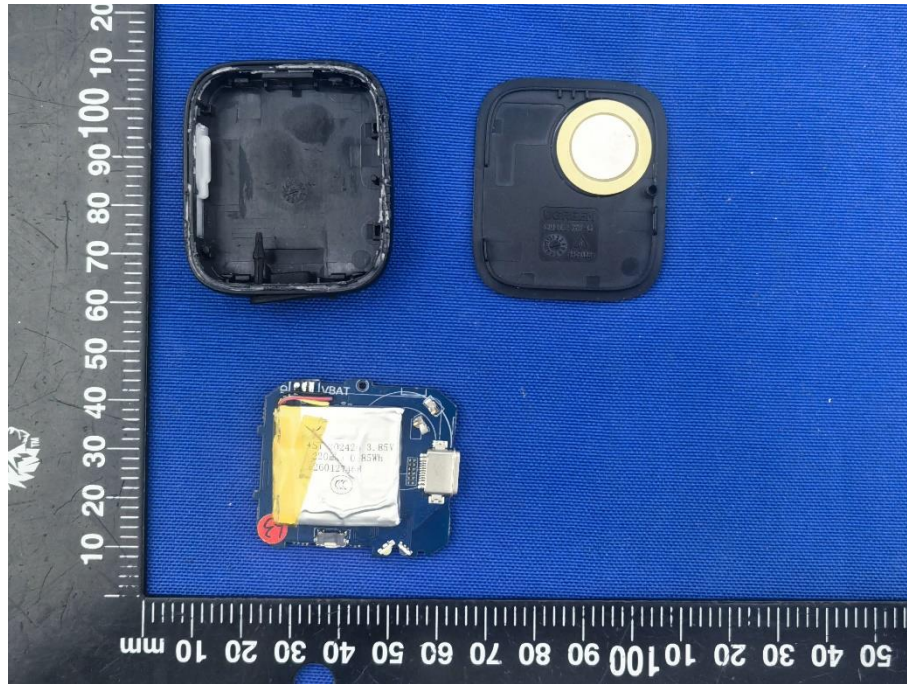


Accessory-USB Cable

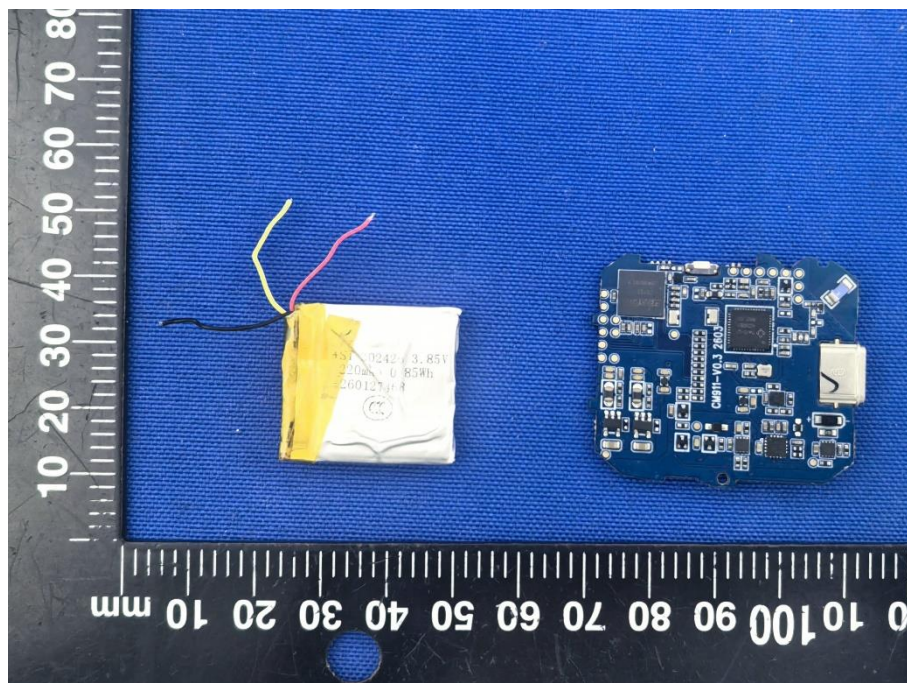


ANNEX C EUT INTERNAL PHOTOS

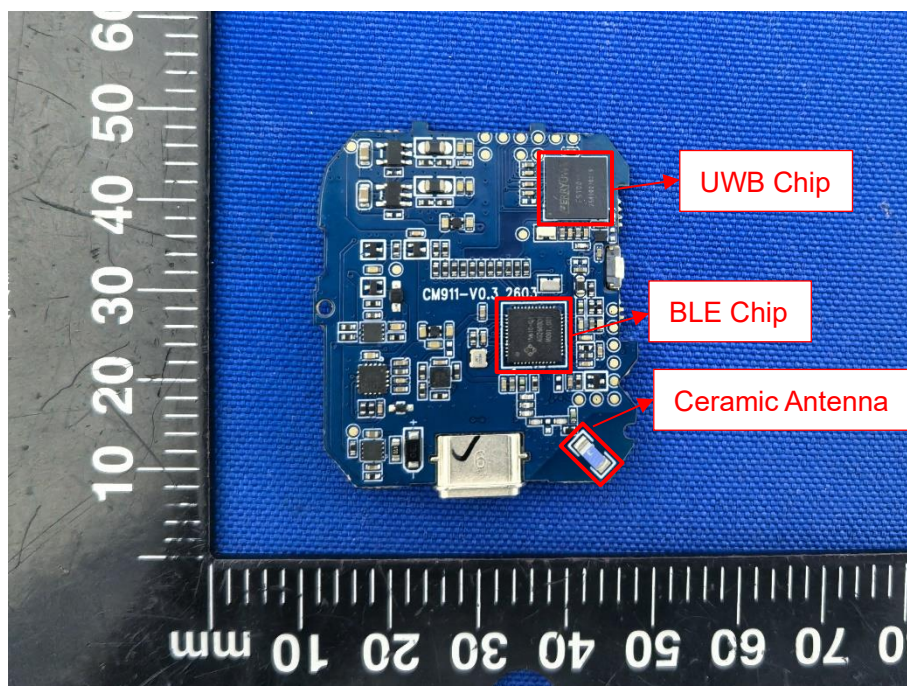
EUT UNCOVER VIEW 1



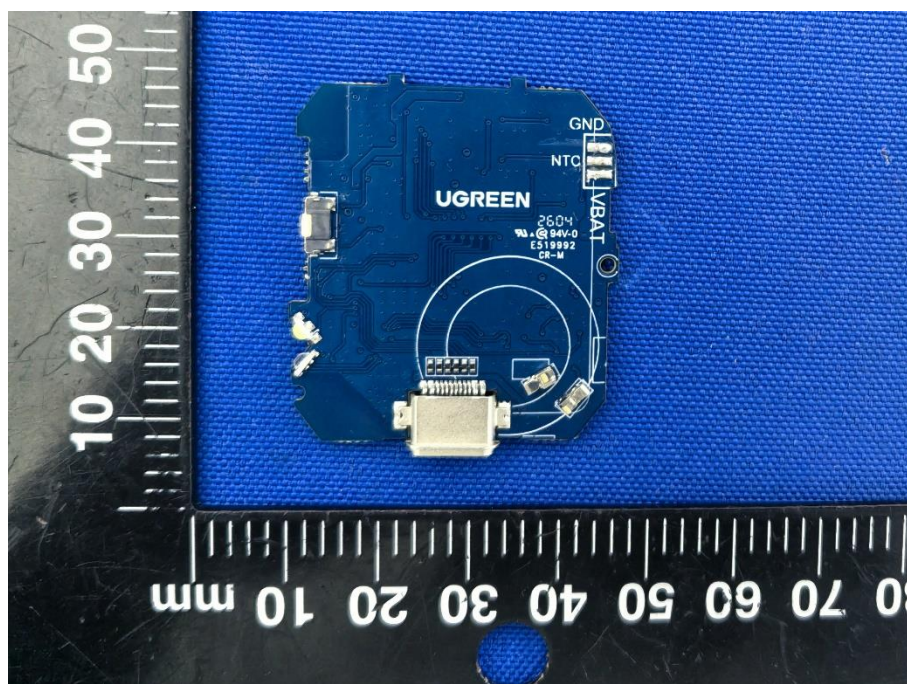
EUT UNCOVER VIEW 2



MAIN BOARD TOP VIEW



MAIN BOARD REAR VIEW



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--END OF REPORT--