TEST REPORT

Applicant:	Hubei Linksci Technology Co., Ltd.
Address:	603, 6th Floor, No. 78, Shaxian Street East, Zhifang Street, Jiangxia District, Wuhan City, Hubei Province, China
Equipment Type:	KeyFOB assy
Model Name:	LD220-KeyFOB-1
Brand Name:	LINKSCI
FCC ID:	2BKRNLD220-KEYFOB-1
Test Standard:	47 CFR Part 15 Subpart F (refer to section 3.1)
Sample Arrival Date:	Apr. 18, 2025
Test Date:	Apr. 24, 2025 - Jun. 11, 2025
Date of Issue:	Jun. 19, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Julie zhu

Checked by: Ye Hongji

Approved by: Sunny Zou

(Technical Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	May 29, 2025	Initial Issue
Rev. 02	Jun. 04, 2025	1、Updated FCC Part No 2、Added a description of the Operational Limitations test item
Rev. 03	Jun. 19, 2025	1、Added Operational Limitations test data 2、Updated Operational Limitations test item description

TABLE OF CONTENTS

1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Address	Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
Phone Number	+86 755 6685 0100

1.2 Test Location

Name	Shenzhen BALUN Technology Co., Ltd.
Location	☑ Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China
	☐ 1/F, Building B, Ganghongji High-tech Intelligent Industrial Park, No. 1008, Songbai Road, Yangguang Community, Xili Sub-district, Nanshan District, Shenzhen, Guangdong Province, P. R. China
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	Hubei Linksci Technology Co., Ltd.
Address	603, 6th Floor, No. 78, Shaxian Street East, Zhifang Street, Jiangxia District, Wuhan City, Hubei Province, China

2.2 Manufacturer Information

Manufacturer	Hubei Linksci Technology Co., Ltd.
Address	603, 6th Floor, No. 78, Shaxian Street East, Zhifang Street, Jiangxia District, Wuhan City, Hubei Province, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	KeyFOB assy
Model Name Under Test	LD220-KeyFOB-1
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	FbaC
Software Version	V2.5
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Bluetooth BLE, UWB, NFC RX

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	The frequency range used is 3100MHz-10600MHz The frequency block is 6000MHz-8500MHz
Antenna Type	PCB Antenna
Antenna Gain	5.54 dBi

All channel was listed on the following table:

Channel number	Freq. (MHz)
5	6489.6
9	7987.2

Note: The above EUT information in section 2.4 and 2.5 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 C63.4-2014	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz
3	ANSI C63.10-2013	American National Standard for Testing 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	ANNEX A.1	Pass	Note [3]
3	UWB Bandwidth	15.519(b)	ANNEX A.2	Pass	--
4	Radiated Emissions	15.519(c)/15.209	ANNEX A.3	Pass	--
5	Radiated Emissions in GPS Bands	15.519(d)	ANNEX A.4	Pass	--
6	Peak Emissions within a 50 MHz Bandwidth	15.519(e)	ANNEX A.5	Pass	--
7	Operational Limitations	15.519(a)	ANNEX A.6	Pass	Note [2]
Note 1: Please refer to section 5.1 Note 2: Please refer to section 5.3 Note 3: The EUT is an in-vehicle device, so the Conducted Emission test is not applicable.					

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 61%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.3℃ to +26.9℃
Working Voltage of the EUT	NV (Normal Voltage)	3.0 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	ROHDE&SCHWARZ	FSV-40	101544	2024.12.16	2025.12.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060183	2024.08.01	2025.07.31
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2024.08.01	2025.07.31
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Test Antenna-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2022.02.19	2025.09.03
Amplifier	COM-MV	LSCX_LNA 1-12G-01	180602	2024.08.01	2025.07.31
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2024.08.01	2025.07.31
Amplifier	COM-MV	KA LNA18 40G-01	18050001	2024.12.05	2025.12.04
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2024.07.13	2027.07.12
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2024.08.01	2025.07.31
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9168	9168-01162	2023.08.04	2026.08.03
Test Antenna-Loop	SCHWARZBECK	FMZB 1519	1519-037	2024.01.23	2027.01.22
Amplifier	COM-MV	ZT30-1000M	B2018054558	2024.11.28	2025.11.27
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60 *7.35m	130	2024.07.13	2027.07.12

4.3 Measurement Uncertainty

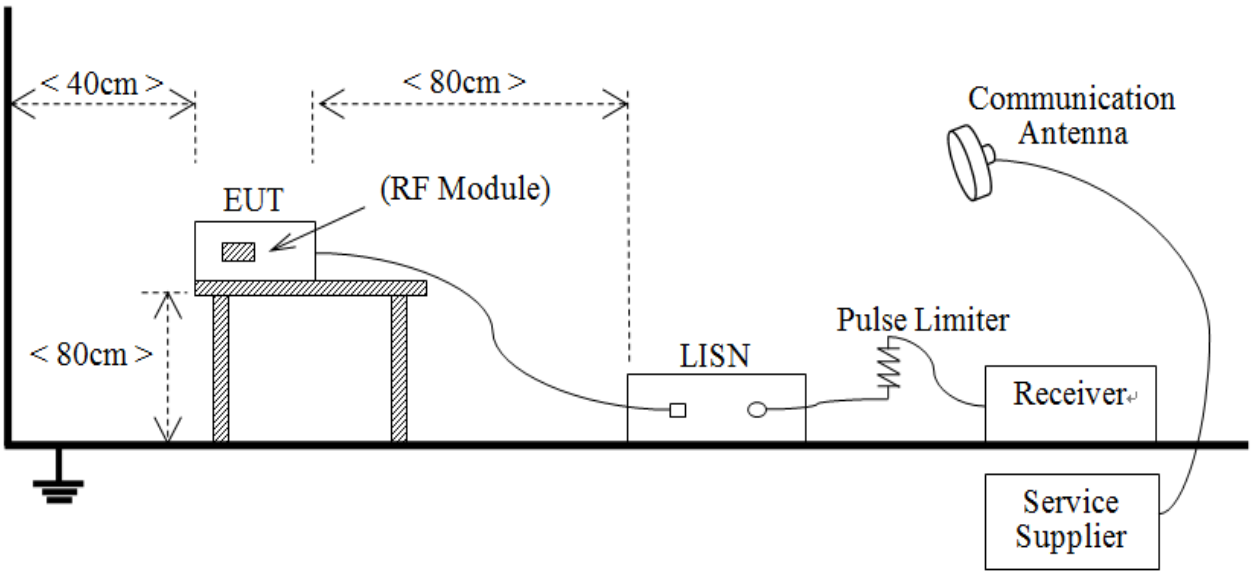
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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%

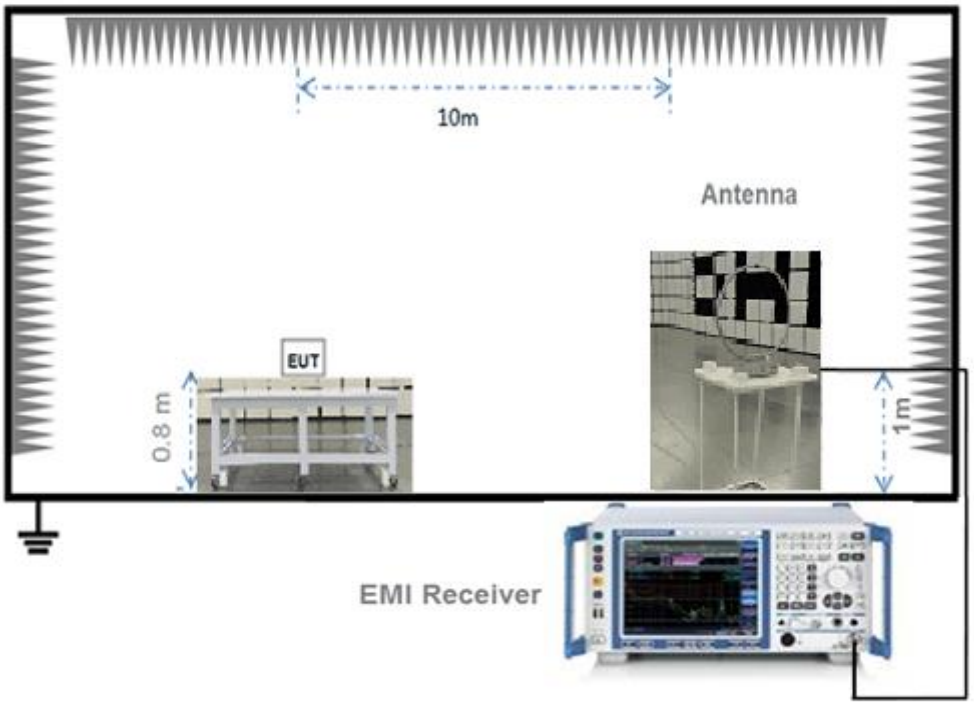
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



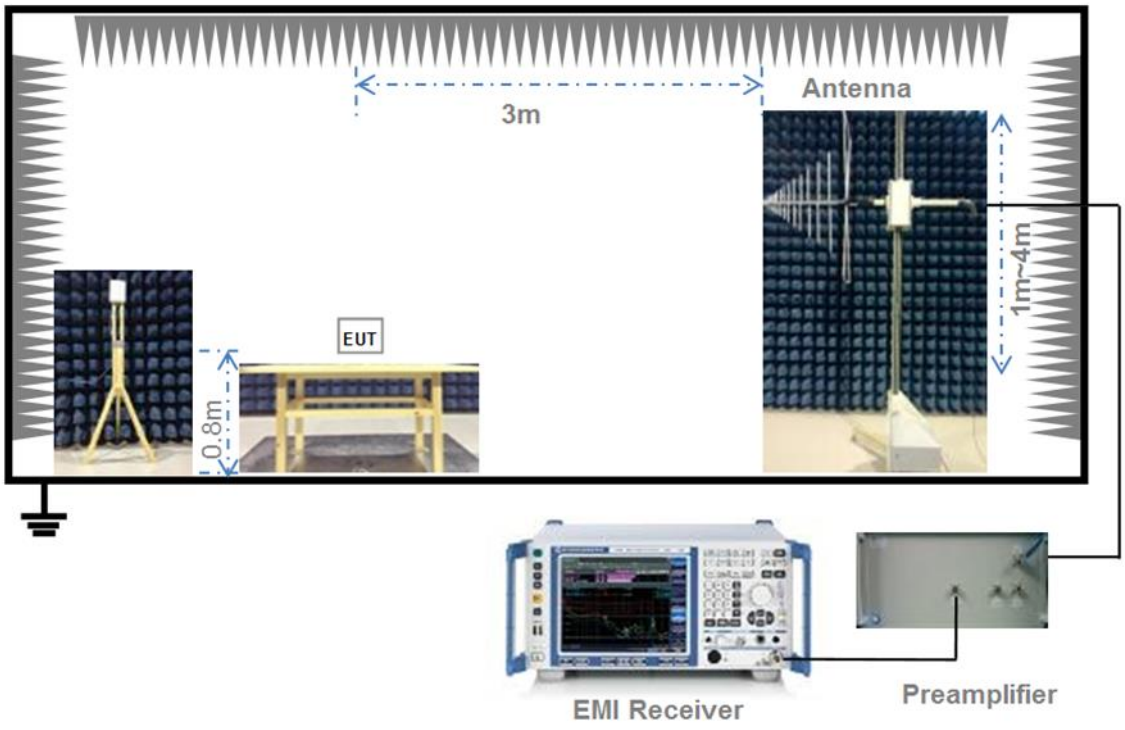
(Diagram 1)

4.4.2 For Radiated Test (Below 30 MHz)



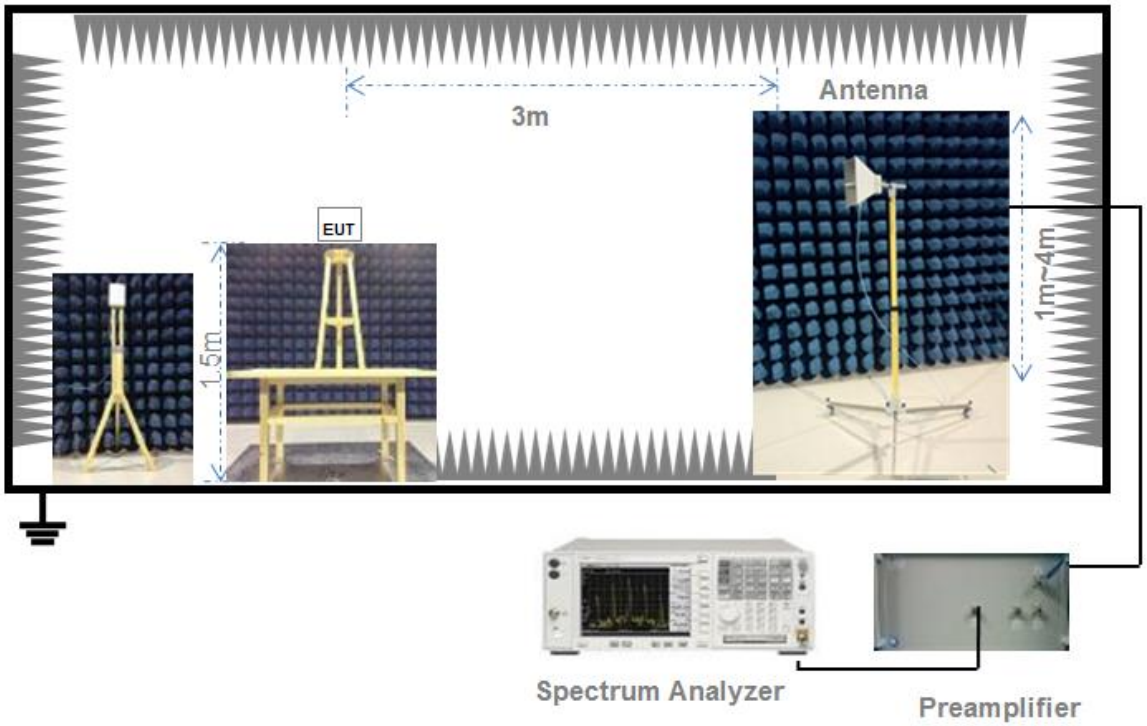
(Diagram 2)

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 50μH/50Ω line impedance stabilization network (LISN).

Frequency range (MHz)	Conducted Limit (dBμV)	
	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 B.

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

Please refer to ANNEX A.1.

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.

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.

Antennas mounted on the device.

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

Please refer to ANNEX A.6

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 B.

5.4.3 Test Procedure

Use the following spectrum analyzer settings:

RBW = 1 MHz

VBW ≥ 3 MHz

Sweep = auto

Detector function = RMS

Trace = max hold

5.4.4 Test Result

Please refer to ANNEX A.2.

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	-53.3
1990–3100	-51.3
3100–10600	-41.3
Above 10600	-51.3

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 (μV/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 B.

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

Please refer to ANNEX A.3.

5.6 Radiated Emissions in UWB 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 B.

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

Please refer to ANNEX A.4.

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 MHz)] relationship. For example, the peak power limit could be expressed in a 1 MHz bandwidth as follows in Equation :
$EIRP_{1\ MHz} = EIRP_{50\ MHz} + 20\log (1\ MHz / 50\ MHz) = 0\ dBm + (-34\ dBm) = -34dBm$

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 B.

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

Please refer to ANNEX A.5.

ANNEX A TEST RESULT

A.1 Conducted Emissions

Note: Not applicable.

A.2 UWB Bandwidth

Test Data

Channel	F_M (MHz)	F_L (MHz)	F_H (MHz)	UWB Bandwidth (MHz)	Limit (MHz)	Verdict
CH5	6566	6203	6799	607.16	The UWB bandwidth of a device operating under the provisions of this section must be contained between 3100 MHz and 10,600 MHz.	Pass
CH9	7911	7666	8296	626.32		Pass

Test Data and Plots

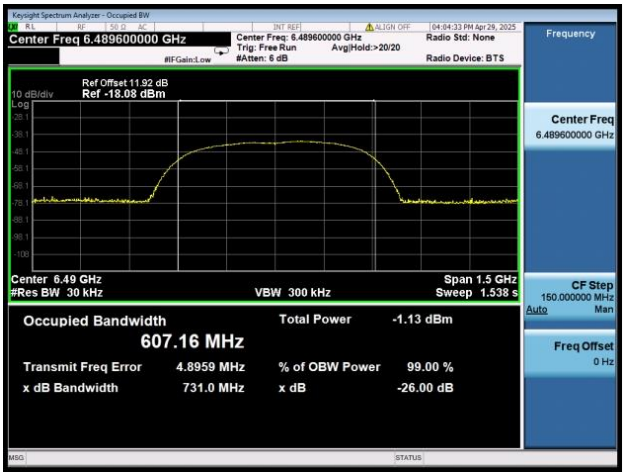
10 dB Bandwidth

6489.6MHz

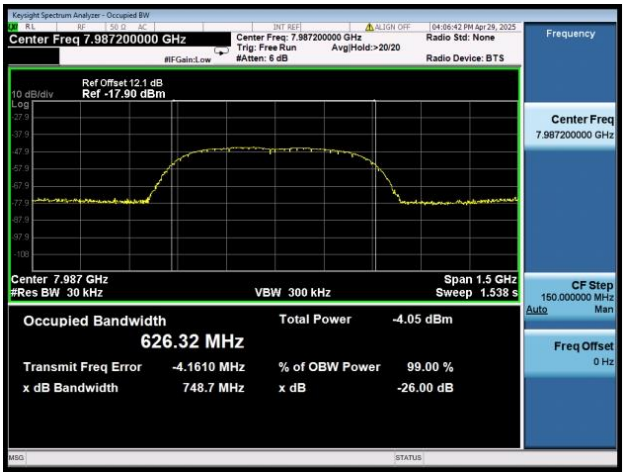
7987.2MHz

99% Bandwidth

6489.6MHz



7987.2MHz

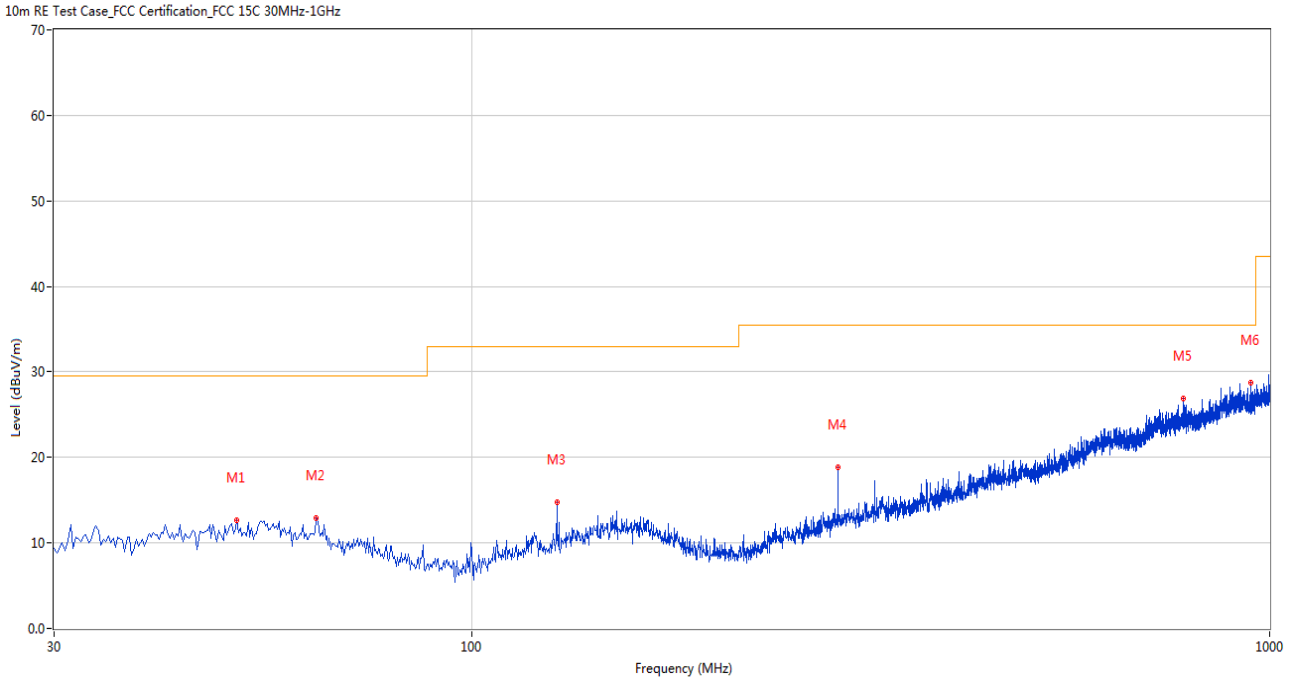


A.3 Radiated Emissions

Note: 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.

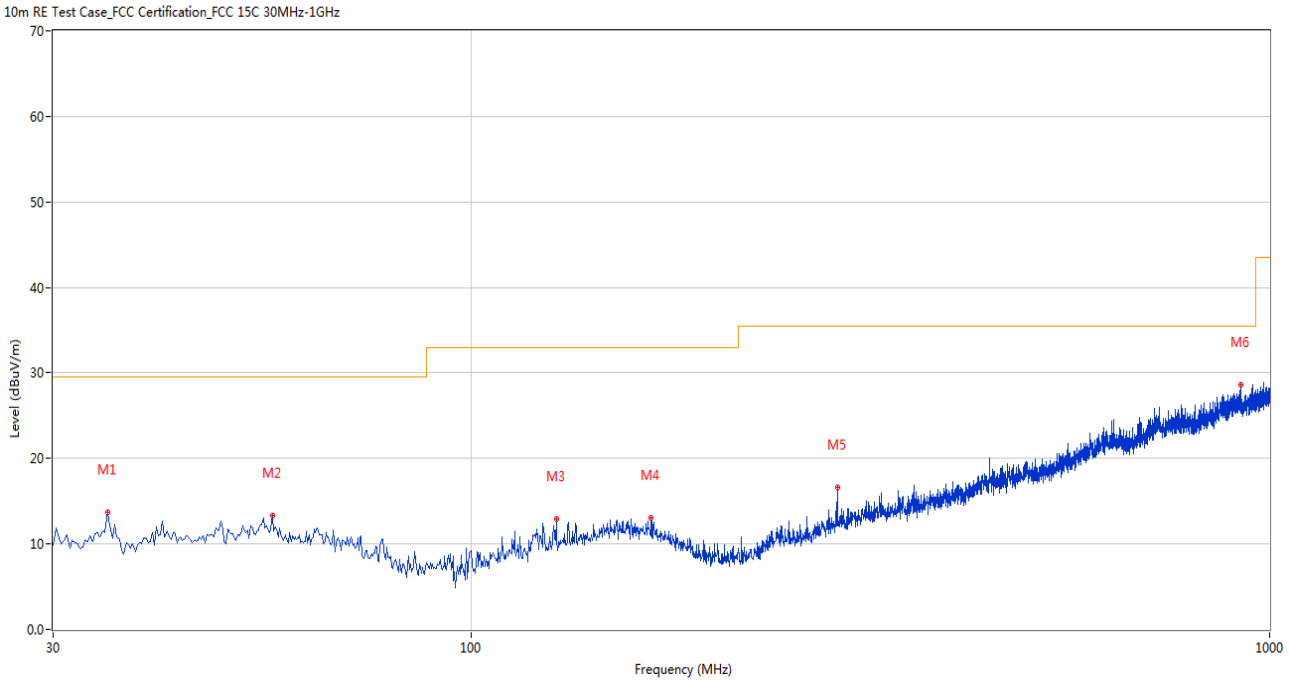
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.850	12.60	-25.97	29.5	16.90	Peak	2.00	200	Horizontal	Pass
2	63.942	12.97	-27.03	29.5	16.53	Peak	80.00	100	Horizontal	Pass
3	127.946	14.78	-27.27	33.0	18.22	Peak	0.00	200	Horizontal	Pass
4	287.956	18.87	-25.18	35.5	16.63	Peak	31.00	200	Horizontal	Pass
5	779.138	26.90	-12.99	35.5	8.60	Peak	205.00	100	Horizontal	Pass
6	947.633	28.70	-10.54	35.5	6.80	Peak	205.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	35.091	13.76	-27.17	29.5	15.74	Peak	85.00	200	Vertical	Pass
2	56.426	13.32	-26.26	29.5	16.18	Peak	7.00	200	Vertical	Pass
3	127.946	12.87	-27.27	33.0	20.13	Peak	4.00	200	Vertical	Pass
4	168.190	13.01	-26.02	33.0	19.99	Peak	275.00	100	Vertical	Pass
5	287.956	16.59	-25.18	35.5	18.91	Peak	96.00	100	Vertical	Pass
6	919.510	28.61	-10.51	35.5	6.89	Peak	0.00	200	Vertical	Pass

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

6489.6 MHz ANT H

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1331.909	43.15	74.0	30.85	Peak	235.00	400	Horizontal	Pass
1331.909	29.89	54.0	24.11	AV	235.00	400	Horizontal	Pass
2972.113	51.50	74.0	22.50	Peak	162.00	300	Horizontal	Pass
2972.113	39.06	54.0	14.94	AV	162.00	300	Horizontal	Pass
4910.705	49.30	74.0	24.70	Peak	47.00	200	Horizontal	Pass
4910.705	44.38	54.0	9.62	AV	47.00	200	Horizontal	Pass
7628.086	56.31	74.0	17.69	Peak	323.00	200	Horizontal	Pass
7628.086	43.19	54.0	10.81	AV	323.00	200	Horizontal	Pass
12474.007	52.89	74.0	21.11	Peak	307.00	100	Horizontal	Pass
12474.007	43.06	54.0	10.94	AV	307.00	100	Horizontal	Pass
16853.922	54.49	74.0	19.51	Peak	6.00	300	Horizontal	Pass
16853.922	43.93	54.0	10.07	AV	6.00	300	Horizontal	Pass

6489.6 MHz ANT V

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1469.130	43.13	74.0	30.87	Peak	233.00	100	Vertical	Pass
1469.130	29.07	54.0	24.93	AV	233.00	100	Vertical	Pass
2987.814	53.78	74.0	20.22	Peak	63.00	100	Vertical	Pass
2987.814	42.37	54.0	11.63	AV	63.00	100	Vertical	Pass
4923.659	51.98	74.0	22.02	Peak	123.00	200	Vertical	Pass
4923.659	40.97	54.0	13.03	AV	123.00	200	Vertical	Pass
7969.706	55.78	74.0	18.22	Peak	299.00	400	Vertical	Pass
7969.706	41.25	54.0	12.75	AV	299.00	400	Vertical	Pass
12443.433	50.57	74.0	23.43	Peak	20.00	200	Vertical	Pass
12443.433	44.12	54.0	9.88	AV	20.00	200	Vertical	Pass
17456.426	55.23	74.0	18.77	Peak	91.00	300	Vertical	Pass
17456.426	43.76	54.0	10.24	AV	91.00	300	Vertical	Pass

7987.2 MHz ANT H

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1331.857	42.31	74.0	31.69	Peak	175.00	300	Horizontal	Pass
1331.857	29.85	54.0	24.15	AV	175.00	300	Horizontal	Pass
2970.501	50.73	74.0	23.27	Peak	9.00	200	Horizontal	Pass
2970.501	40.78	54.0	13.22	AV	9.00	200	Horizontal	Pass
4917.428	49.67	74.0	24.33	Peak	232.00	200	Horizontal	Pass
4917.428	42.77	54.0	11.23	AV	232.00	200	Horizontal	Pass
7628.170	53.93	74.0	20.07	Peak	32.00	300	Horizontal	Pass
7628.170	40.25	54.0	13.75	AV	32.00	300	Horizontal	Pass
12470.457	50.78	74.0	23.22	Peak	70.00	400	Horizontal	Pass
12470.457	42.94	54.0	11.06	AV	70.00	400	Horizontal	Pass
16857.102	52.37	74.0	21.63	Peak	2.00	300	Horizontal	Pass
16857.102	42.02	54.0	11.98	AV	2.00	300	Horizontal	Pass

7987.2 MHz ANT V

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1468.798	45.21	74.0	28.79	Peak	148.00	200	Vertical	Pass
1468.798	27.72	54.0	26.28	AV	148.00	200	Vertical	Pass
2988.426	52.21	74.0	21.79	Peak	328.00	200	Vertical	Pass
2988.426	38.82	54.0	15.18	AV	328.00	200	Vertical	Pass
4926.724	51.52	74.0	22.48	Peak	213.00	200	Vertical	Pass
4926.724	39.77	54.0	14.23	AV	213.00	200	Vertical	Pass
7966.066	56.86	74.0	17.14	Peak	92.00	300	Vertical	Pass
7966.066	41.33	54.0	12.67	AV	92.00	300	Vertical	Pass
12444.951	51.02	74.0	22.98	Peak	172.00	300	Vertical	Pass
12444.951	44.71	54.0	9.29	AV	172.00	300	Vertical	Pass
17459.089	53.11	74.0	20.89	Peak	283.00	200	Vertical	Pass
17459.089	45.81	54.0	8.19	AV	283.00	200	Vertical	Pass

A.4 Radiated Emissions in UWB Bands

Test Data and Plots

6489.6 MHz ANT H

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Height (cm)	Antenna	Verdict
1176.779	-99.4	-85.3	14.10	282.00	300	Horizontal	Pass
1585.265	-99.3	-85.3	14.00	310.00	200	Horizontal	Pass

6489.6 MHz ANT V

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Height (cm)	Antenna	Verdict
1233.412	-98.11	-85.3	12.81	7.00	100	Horizontal	Pass
1572.515	-96.84	-85.3	11.54	70.00	100	Horizontal	Pass

7987.2 MHz ANT H

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Height (cm)	Antenna	Verdict
1177.522	-99.61	-85.3	14.31	281.00	100	Horizontal	Pass
1585.265	-96.92	-85.3	11.62	180.00	100	Horizontal	Pass

7987.2 MHz ANT V

Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Height (cm)	Antenna	Verdict
1231.957	-97.94	-85.3	12.64	14.00	200	Horizontal	Pass
1572.515	-98.1	-85.3	12.80	264.00	300	Horizontal	Pass

A.5 Peak Emissions within a 50MHz Bandwidth

Note：the correct factor of RBW 8MHz to 50MHz is 20 log (50MHz/8 MHz) =15.92

Test Data

Measured Channel (MHz)	Measured Peak e.i.r.p. power (dBm/8 MHz)	Peak e.i.r.p. power (dBm/50 MHz)	Limit (dBm/50 MHz)	Verdict
6489.6	-17.57	-1.65	≤0	Pass
7987.2	-19.27	-3.35	≤0	Pass

Test Data and Plot

6489.6MHz

7987.2MHz

A.6 Operational Limitations

Test data:

Measured Channel (MHz)	Transmission Time (s)	Limit (s)	Verdict
6489.6	1.250	≤10	Pass
7987.2	1.170	≤10	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2541078-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2541078-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2541078-AI.PDF”.

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