

TEST REPORT

Applicant: Truesense S.R.L.
Address: Viale Lombardia, 217 - 20900, Monza, Italy
Equipment Type: TSRR250 UWB module and ETNA TS250 DevKit
Model Name: TSRR250 (refer to section 2.3)
Brand Name: Truesense
FCC ID: 2BFZA-TSRR250
Test Standard: 47 CFR Part 15 Subpart F
(refer section 3.1)
Sample Arrival Date: Jul. 14, 2025
Test Date: Jul. 17, 2025 - Dec. 03, 2025
Date of Issue: Dec. 22, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

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Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Dec. 08, 2025</u>	<u>Initial Issue</u>
<u>Rev. 02</u>	<u>Dec. 22, 2025</u>	<u>Updated the FCC standards for Chapter 3.2, Chapter 5.</u>
		<u>Updated the Product Type for Chapter 2.4</u>

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1 GENERAL INFORMATION

1.1 Test Laboratory

Name	Shenzhen BALUN Technology Co., Ltd.
Contact 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	Truesense S.R.L.
Address	Viale Lombardia, 217 - 20900, Monza, Italy

2.2 Manufacturer Information

Manufacturer	Truesense S.R.L.
Address	Viale Lombardia, 217 - 20900, Monza, Italy

2.3 General Description for Equipment under Test (EUT)

EUT Name	TSRR250 UWB module and ETNA TS250 DevKit
Model Name Under Test	TSRR250
Series Model Name	ETNA TS250 DevKit
Description of Model name differentiation	All models are same with electrical parameters and internal circuit structure, but only differ in model name. (this information provided by the applicant)
Hardware Version	V0120
Software Version	5.6.0
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	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		6.24 GHz-8.24 GHz
Antenna Type		PCB Patch Antenna and External Antenna
Antenna Gain	CH5	PCB Patch Antenna: 4.1 dBi
	CH9	PCB Patch Antenna: 3.6 dBi
	CH5	External Antenna: 3.3 dBi
	CH9	External Antenna: 4.4 dBi

All channel was listed on the following table:

Channel Number	Frequency (MHz)
CH5	6489.6
CH9	7987.2

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 of 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}
2	Conducted Emission	15.207	ANNEX A.1	Pass	Note ²
3	UWB Bandwidth	15.517(b)/ 15.503(d)	ANNEX A.2	Pass	Note ²
4	Radiated Emissions	15.517(c)/15.209	ANNEX A.3	Pass	Note ³
5	Radiated Emissions in GPS Bands	15.517(d)	ANNEX A.4	Pass	Note ³
6	Peak Emissions within a 50 MHz Bandwidth	15.517(e)	ANNEX A.5	Pass	Note ²

Note¹: Please refer to section 5.1

Note²: The items testing address is Block B, 1/F, Baisha Science and Technology Park, Shahe Xi Road, Nanshan District, Shenzhen, Guangdong Province, P. R. China

Note³: The items testing address is 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

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	45% to 60%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+21.5℃ to +24.8℃
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	MY46471071	2025.06.16	2026.06.15
Spectrum Analyzer	KEYSIGHT	N9020A	MY52510065	2025.06.16	2026.06.15
Signaling Unit	ROHDE&SCHWARZ	CMW500	171150	2025.04.28	2026.04.27
Test Antenna-Bi-Log	SCHWARZBECK	VULB 9163	00884	2025.03.01	2028.02.29
Test Antenna-Horn	SCHWARZBECK	BBHA 9120D	01631	2025.02.22	2028.02.21
Anechoic Chamber	RAINFORD	9m*6m*6m	144	2025.01.04	2028.01.03
Amplifier	COM-MV	ZT30-1000M	18110850	2025.06.17	2026.06.16
Amplifier	COM-MV	LSCX_LNA1-12G-01	180602	2025.06.17	2026.06.16
Amplifier	COM-MV	XKu_LNA7-18G-01	180601	2025.06.17	2026.06.16
EMI Receiver	KEYSIGHT	N9010B	MY57110309	2025.06.16	2026.06.15
LISN	SCHWARZBECK	NSLK 8127	8127-687	2025.04.29	2026.04.28
Shielded Enclosure	YiHeng Electronic Co., Ltd	3.5m*3.1m*2.8m	112	2025.02.14	2028.02.13
Vector Signal Generator	ROHDE&SCHWARZ	SMBV100A	260592	2024.12.16	2025.12.15
Signal Generator	ROHDE&SCHWARZ	SMB100A	177746	2025.01.15	2026.01.14
Switch Unit with OSP-B157	ROHDE&SCHWARZ	OSP120	101270	2025.04.28	2026.04.27
EMI Receiver	ROHDE&SCHWARZ	ESRP	101036	2025.06.16	2026.06.15
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
				2025.11.26	2026.11.25
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12

4.3 Measurement Uncertainty

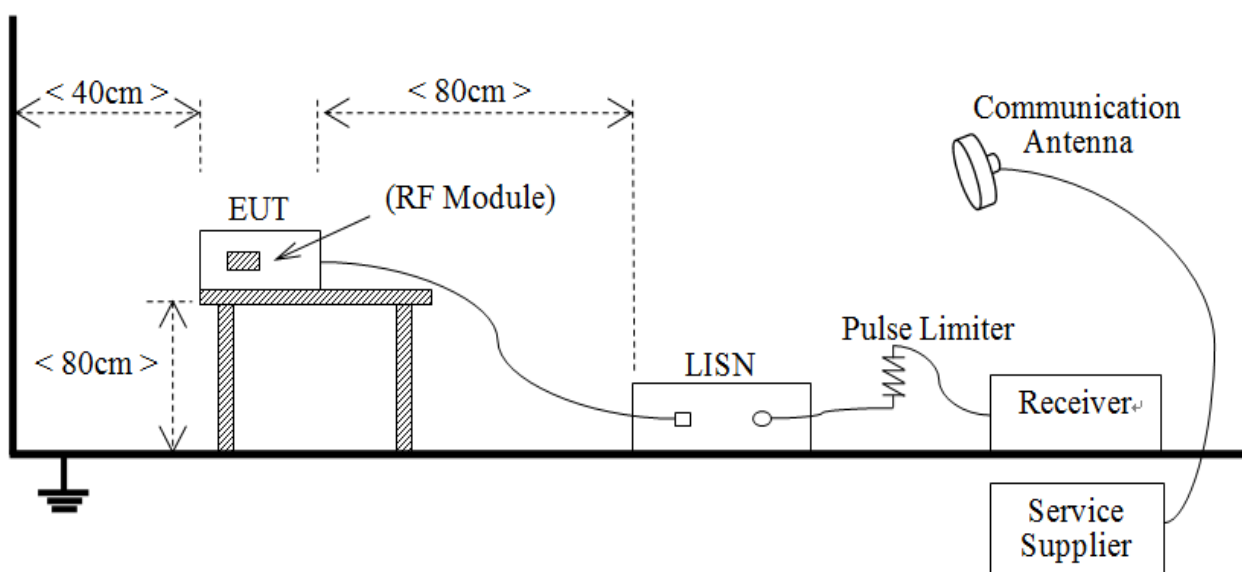
The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

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%

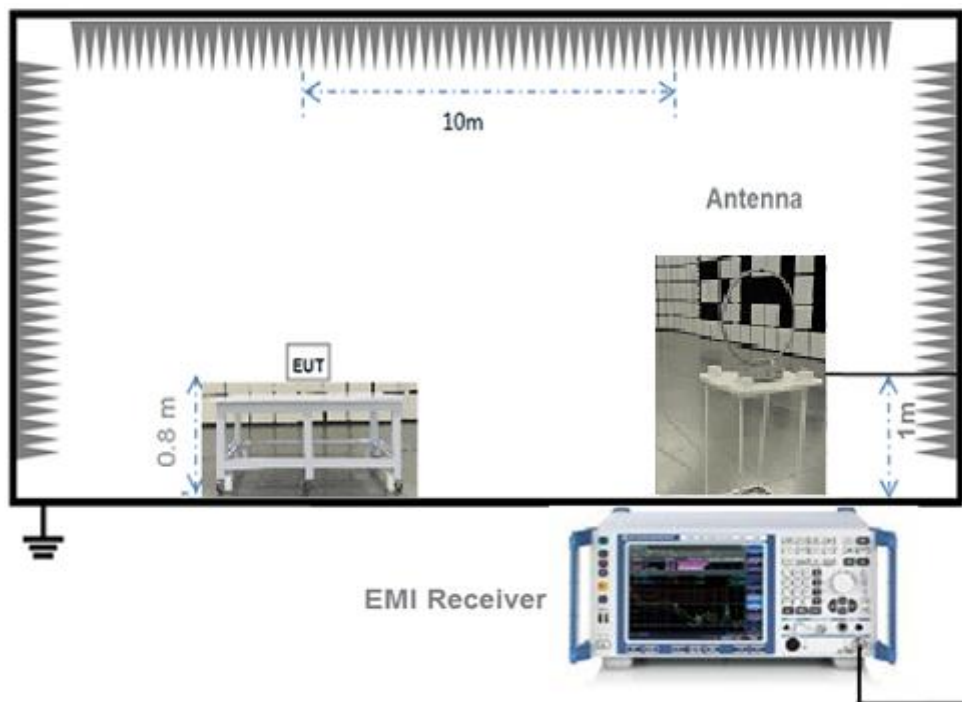
4.4 Description of Test Setup

4.4.1 For AC Power Supply Port Test



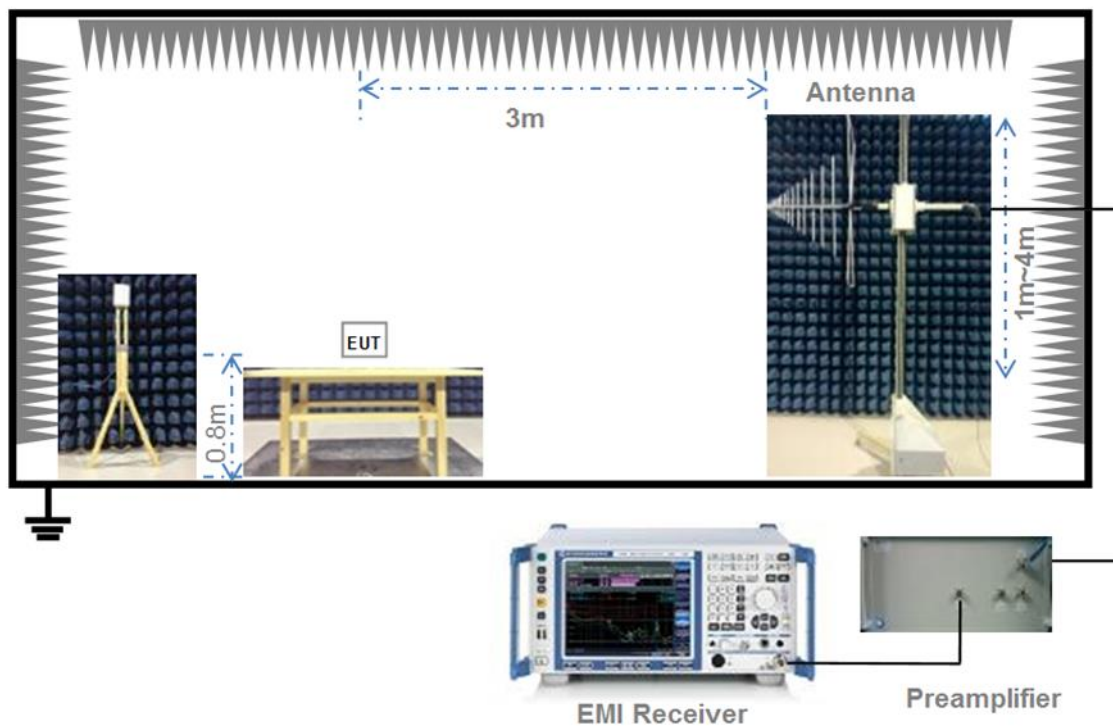
(Diagram 1)

4.4.2 For Radiated Test (Below 30 MHz)



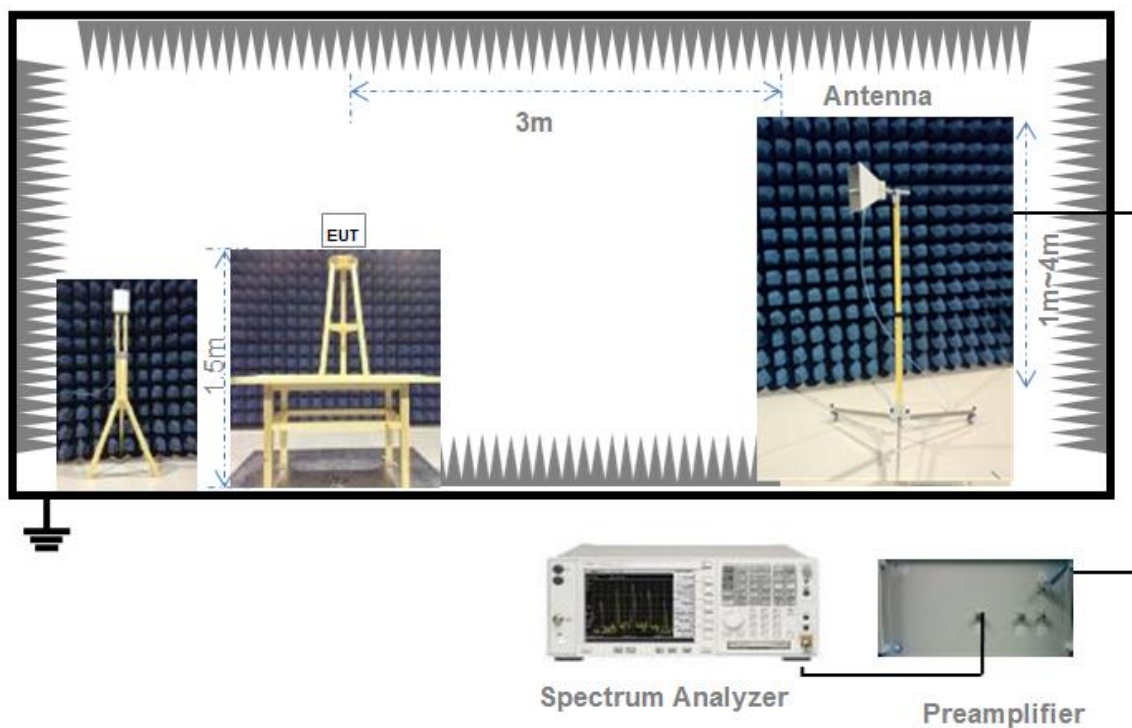
(Diagram 2)

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 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 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 UWB Bandwidth

5.3.1 Limit

FCC §15.503(a)

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 §15.517(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.

5.3.2 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.

5.3.3 Test Procedure

Use the following spectrum analyzer settings:

RBW = 1 MHz

VBW $\geq$ 3 MHz

Sweep = auto

Detector function = RMS

Trace = max hold

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Radiated Emissions

5.4.1 Limit

FCC §15.517(c) & 15.209

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

5.4.2 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.

5.4.3 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

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Radiated Emissions in GPS Bands

5.5.1 Limit

FCC §15.517(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

5.5.2 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.

5.5.3 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:

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

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Peak Emissions within a 50MHz Bandwidth

5.6.1 Limit

FCC §15.517(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 :

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

5.6.2 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:

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

5.6.4 Test Result

Please refer to ANNEX A.5.

ANNEX A TEST RESULT

A.1 Conducted Emissions

Note ¹: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

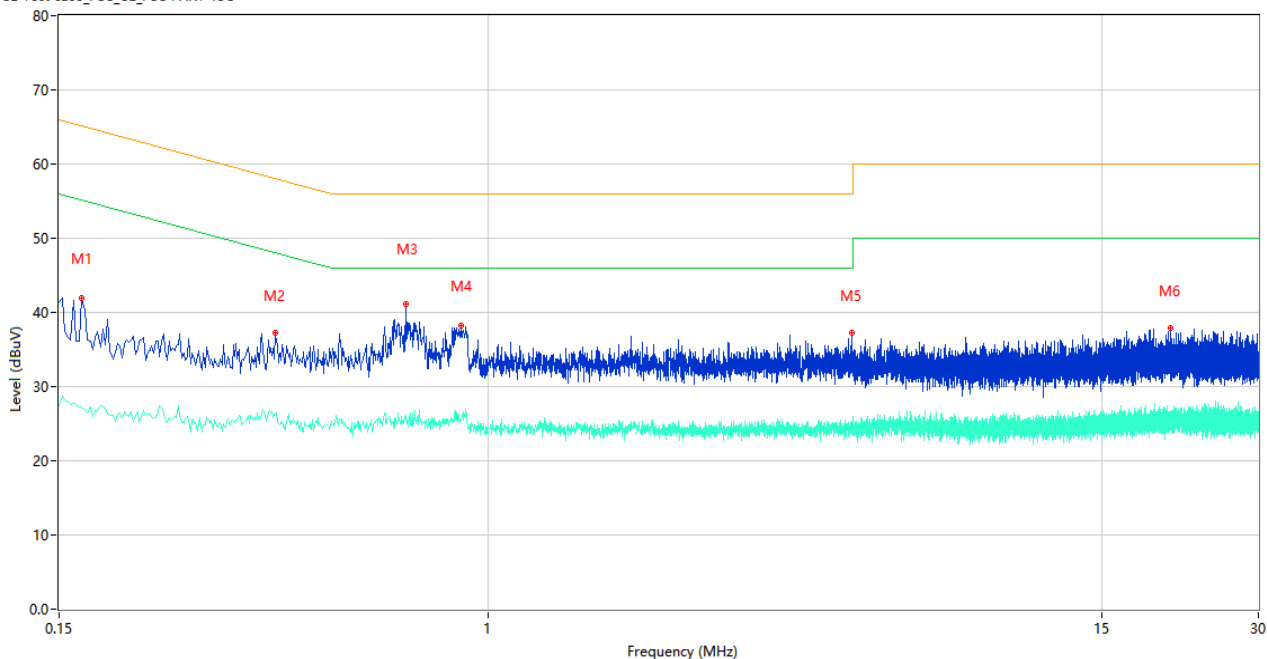
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

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

Test Data and Plots

CH5 PHASE L

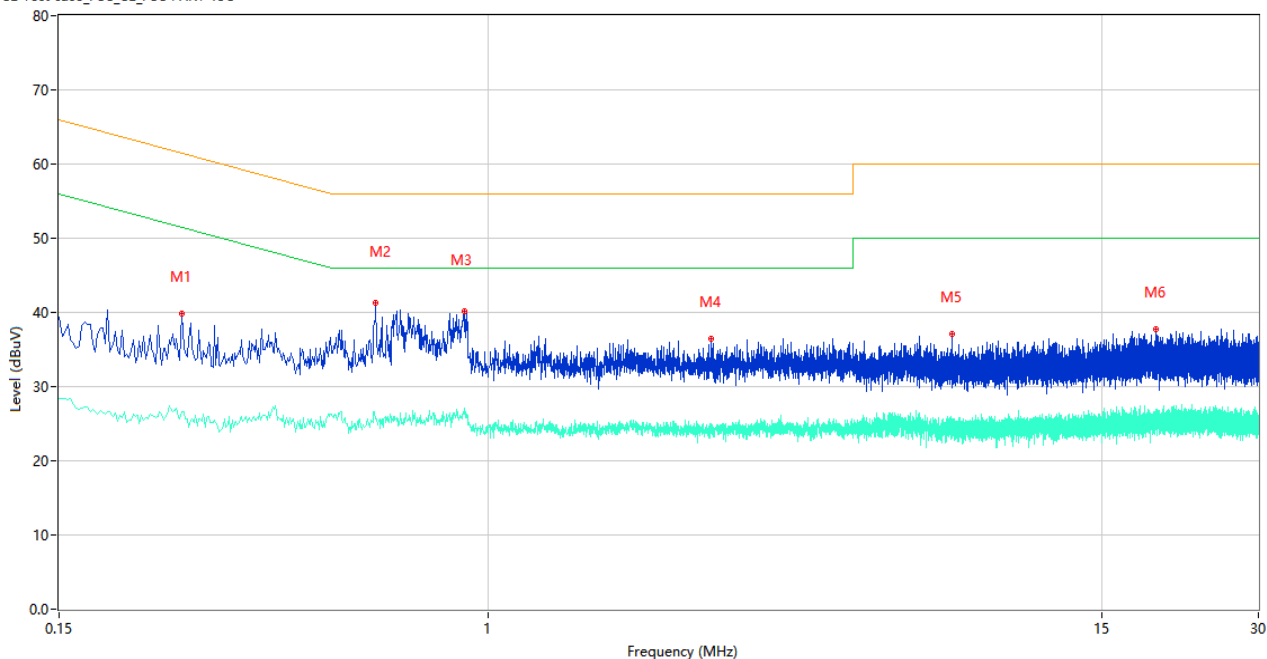
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.166	42.00	9.85	65.16	23.16	Peak	L	Pass
1**	0.166	27.12	9.85	55.16	28.04	AV	L	Pass
2	0.390	37.27	10.65	58.06	20.79	Peak	L	Pass
2**	0.390	26.30	10.65	48.06	21.76	AV	L	Pass
3	0.696	41.17	10.68	56.00	14.83	Peak	L	Pass
3**	0.696	26.11	10.68	46.00	19.89	AV	L	Pass
4	0.884	38.24	10.38	56.00	17.76	Peak	L	Pass
4**	0.884	25.50	10.38	46.00	20.50	AV	L	Pass
5	4.978	37.19	10.42	56.00	18.81	Peak	L	Pass
5**	4.978	24.36	10.42	46.00	21.64	AV	L	Pass
6	20.390	37.98	11.14	60.00	22.02	Peak	L	Pass
6**	20.390	26.67	11.14	50.00	23.33	AV	L	Pass

CH5 PHASE N

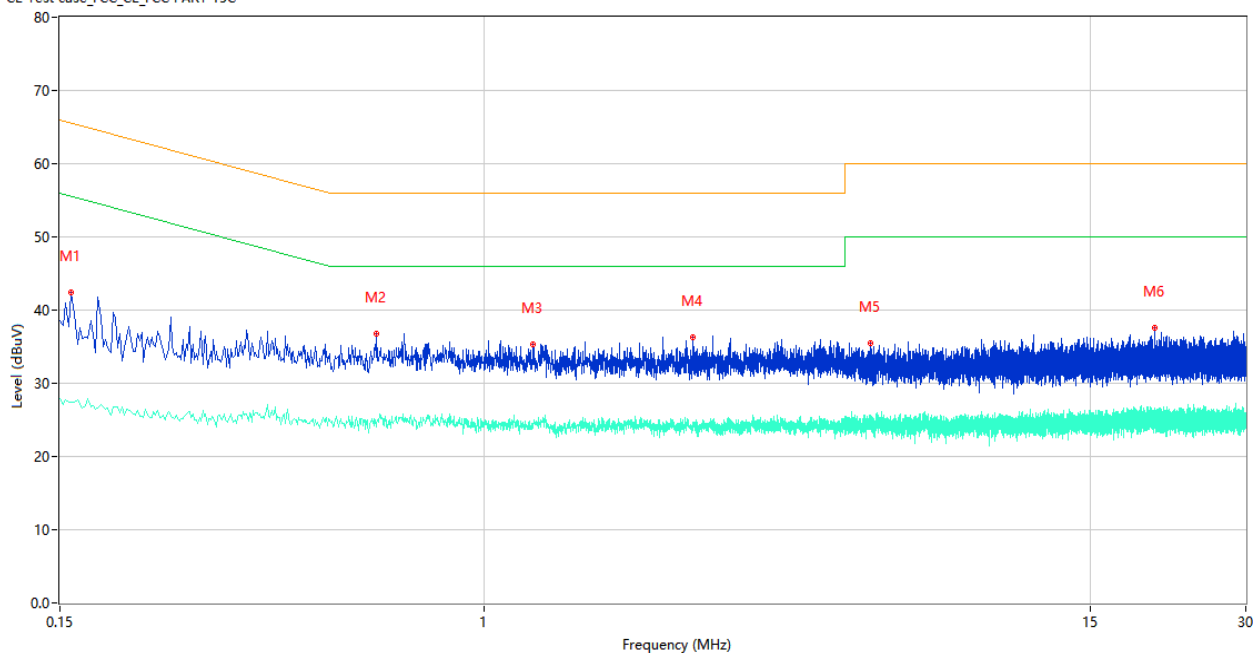
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.258	39.84	9.83	61.50	21.66	Peak	N	Pass
1**	0.258	26.65	9.83	51.50	24.85	AV	N	Pass
2	0.608	41.24	10.23	56.00	14.76	Peak	N	Pass
2**	0.608	26.02	10.23	46.00	19.98	AV	N	Pass
3	0.898	40.15	10.26	56.00	15.85	Peak	N	Pass
3**	0.898	26.22	10.26	46.00	19.78	AV	N	Pass
4	2.678	36.38	10.16	56.00	19.62	Peak	N	Pass
4**	2.678	24.71	10.16	46.00	21.29	AV	N	Pass
5	7.736	37.09	10.47	60.00	22.91	Peak	N	Pass
5**	7.736	24.24	10.47	50.00	25.76	AV	N	Pass
6	19.092	37.81	11.14	60.00	22.19	Peak	N	Pass
6**	19.092	25.57	11.14	50.00	24.43	AV	N	Pass

CH9 PHASE L

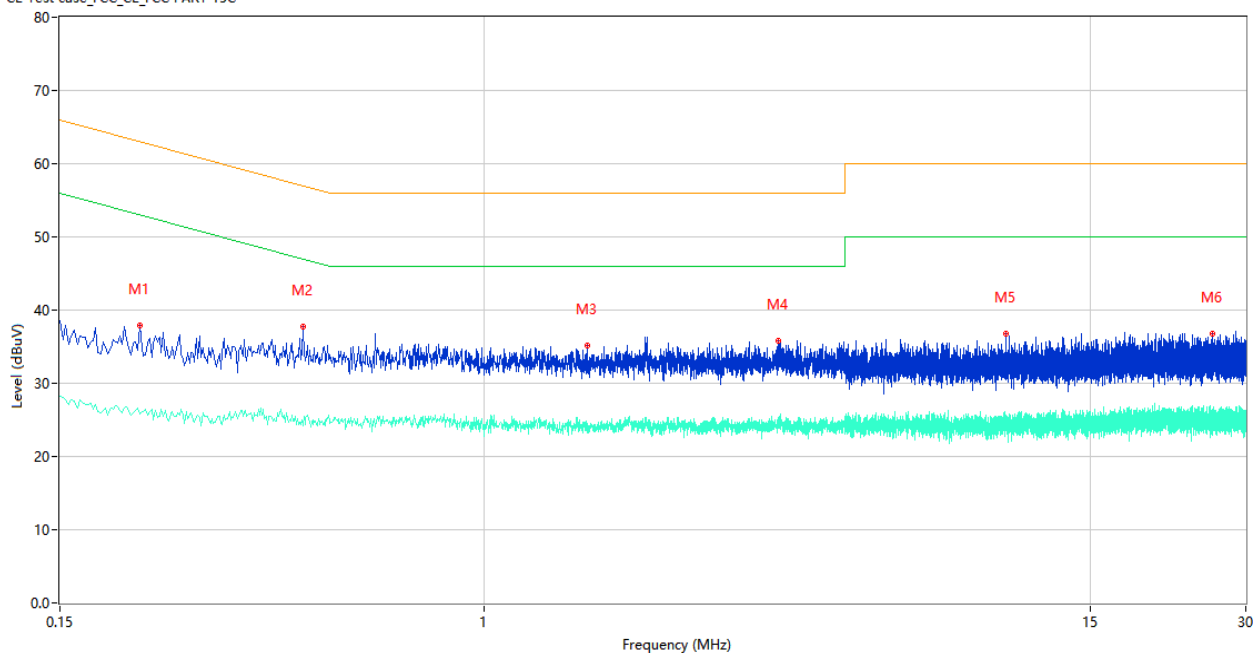
CE Test case_FCC_CE_FCC PART 15C



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.158	42.39	9.86	65.57	23.18	Peak	L	Pass
1**	0.158	27.46	9.86	55.57	28.11	AV	L	Pass
2	0.618	36.76	10.24	56.00	19.24	Peak	L	Pass
2**	0.618	24.40	10.24	46.00	21.60	AV	L	Pass
3	1.242	35.35	10.43	56.00	20.65	Peak	L	Pass
3**	1.242	23.85	10.43	46.00	22.15	AV	L	Pass
4	2.534	36.33	10.17	56.00	19.67	Peak	L	Pass
4**	2.534	24.53	10.17	46.00	21.47	AV	L	Pass
5	5.608	35.56	10.47	60.00	24.44	Peak	L	Pass
5**	5.608	24.98	10.47	50.00	25.02	AV	L	Pass
6	19.966	37.50	11.32	60.00	22.50	Peak	L	Pass
6**	19.966	26.51	11.32	50.00	23.49	AV	L	Pass

CH9 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	37.90	9.84	63.05	25.15	Peak	N	Pass
1**	0.214	25.84	9.84	53.05	27.21	AV	N	Pass
2	0.444	37.75	10.15	56.99	19.24	Peak	N	Pass
2**	0.444	24.27	10.15	46.99	22.72	AV	N	Pass
3	1.580	35.10	10.03	56.00	20.90	Peak	N	Pass
3**	1.580	23.22	10.03	46.00	22.78	AV	N	Pass
4	3.724	35.75	10.42	56.00	20.25	Peak	N	Pass
4**	3.724	25.26	10.42	46.00	20.74	AV	N	Pass
5	10.282	36.73	10.56	60.00	23.27	Peak	N	Pass
5**	10.282	23.61	10.56	50.00	26.39	AV	N	Pass
6	25.860	36.85	10.67	60.00	23.15	Peak	N	Pass
6**	25.860	25.06	10.67	50.00	24.94	AV	N	Pass

A.2 UWB Bandwidth

Test Data

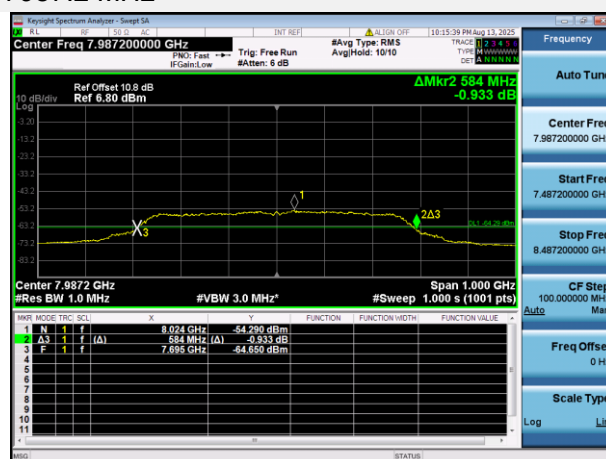
Channel	F _M (MHz)	F _L (MHz)	F _H (MHz)	UWB Bandwidth (MHz)	Limit (MHz)	Verdict
CH5	6498	6209	6787	578	Fractional bandwidth ≥ 0.2 or UWB Bandwidth ≥ 500 MHz 10 dB bandwidth contained between 3100 to 10600 MHz	Pass
CH9	7987	7695	8279	584		Pass

Test Plots

6489.6 MHz



7987.2 MHz



A.3 Radiated Emissions

Note ¹: The symbol of “--” in the table which means not application.

Note ²: 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 ³: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Test Data and Plots

PCB Patch Antenna

CH5 30 MHz to 960 MHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	63.917	31.22	40.0	8.78	Peak	233.00	400	Pass
2	188.816	36.17	43.5	7.33	Peak	233.00	400	Pass
3	218.991	35.66	46.0	10.34	Peak	80.00	200	Pass
4	498.439	32.58	46.0	13.42	Peak	80.00	200	Pass
5	781.507	38.01	46.0	7.99	Peak	249.00	200	Pass
6	804.560	41.01	46.0	4.91	Peak	249.00	200	Pass

CH5 30 MHz to 960 MHz, ANT V

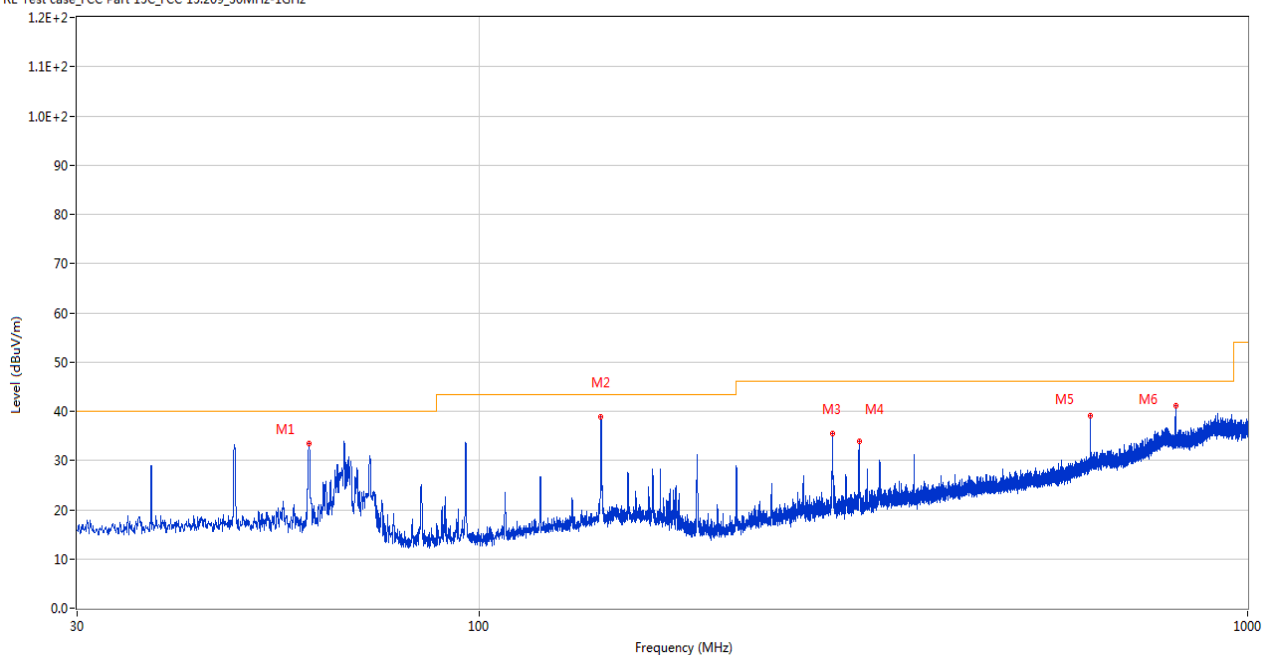
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	58.497	30.67	40.0	9.33	Peak	30.00	400	Pass
2	145.121	39.40	43.5	6.10	Peak	30.00	400	Pass
3	289.851	34.22	46.0	11.78	Peak	260.00	100	Pass
4	311.779	34.07	46.0	11.93	Peak	260.00	100	Pass
5	620.204	40.62	46.0	5.38	Peak	21.00	200	Pass
6	802.555	41.11	46.0	4.89	Peak	21.00	200	Pass

CH9 30 MHz to 960 MHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	60.070	31.44	40.0	8.56	Peak	71.00	150	Pass
2	192.330	37.47	43.5	6.03	Peak	262.00	100	Pass
3	216.288	35.28	46.0	10.72	Peak	108.00	100	Pass
4	496.085	35.32	46.0	10.68	Peak	9.00	200	Pass
5	784.563	36.65	46.0	9.35	Peak	283.00	100	Pass
6	801.998	40.53	46.0	5.47	Peak	124.00	400	Pass

CH9 30 MHz to 960 MHz, ANT V

RE Test case_FCC Part 15C_FCC 15.209_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	60.118	33.41	40.0	6.59	Peak	359.00	150	Pass
2	144.120	38.84	43.5	4.66	Peak	188.00	200	Pass
3	288.408	35.41	46.0	10.59	Peak	110.00	150	Pass
4	312.415	33.95	46.0	12.05	Peak	124.00	100	Pass
5	624.028	39.09	46.0	6.91	Peak	279.00	200	Pass
6	806.146	41.16	46.0	4.84	Peak	354.00	150	Pass

External Antenna**CH5 30 MHz to 960 MHz, ANT H**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	63.645	32.60	40.0	7.40	Peak	120.00	100	Pass
2	188.971	36.34	43.5	7.16	Peak	120.00	100	Pass
3	215.327	35.24	46.0	10.76	Peak	335.00	400	Pass
4	496.934	32.32	46.0	13.68	Peak	335.00	400	Pass
5	783.136	38.47	46.0	7.53	Peak	187.00	200	Pass
6	803.516	39.84	46.0	6.16	Peak	187.00	200	Pass

CH5 30 MHz to 960 MHz, ANT V

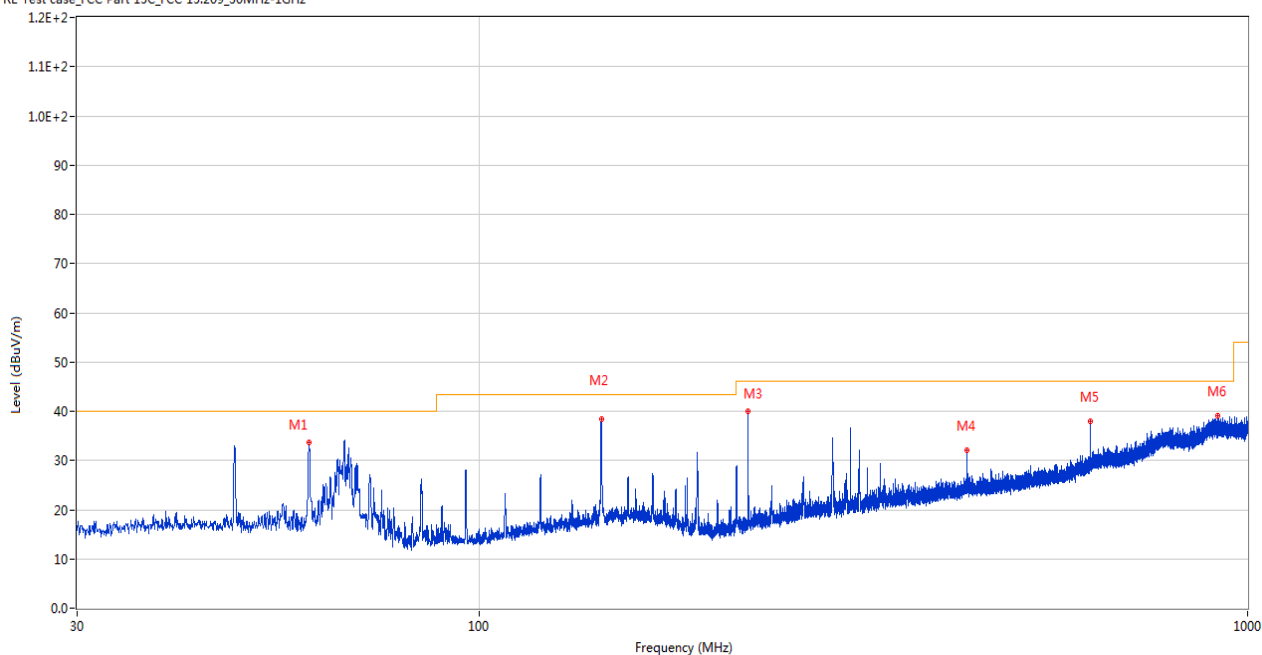
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	63.287	34.39	40.0	5.61	Peak	338.00	200	Pass
2	142.565	36.74	43.5	6.76	Peak	338.00	200	Pass
3	284.496	32.51	46.0	13.49	Peak	261.00	400	Pass
4	311.919	32.84	46.0	13.16	Peak	261.00	400	Pass
5	624.827	38.78	46.0	7.22	Peak	208.00	200	Pass
6	804.317	40.24	46.0	5.76	Peak	208.00	200	Pass

CH9 30 MHz to 960 MHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	57.728	18.54	40.0	21.46	Peak	292.00	100	Pass
2	139.262	25.64	43.5	17.86	Peak	292.00	100	Pass
3	214.899	33.96	43.5	9.54	Peak	142.00	300	Pass
4	254.123	25.56	43.5	17.94	Peak	142.00	300	Pass
5	459.825	25.82	46.0	20.18	Peak	145.00	200	Pass
6	845.868	40.63	46.0	5.37	Peak	145.00	200	Pass

CH9 30 MHz to 960 MHz, ANT V

RE Test case_FCC Part 15C_FCC 15.209_30MHz-1GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Verdict
1	60.118	33.58	40.0	6.42	Peak	300.00	150	Pass
2	144.266	38.35	43.5	5.15	Peak	191.00	150	Pass
3	224.048	39.90	46.0	6.10	Peak	270.00	200	Pass
4	431.919	32.08	46.0	13.92	Peak	78.00	150	Pass
5	624.125	37.98	46.0	8.02	Peak	64.00	100	Pass
6	913.719	39.13	46.0	6.87	Peak	188.00	400	Pass

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

PCB Patch Antenna

UWB CH5, 960 MHz to 10.6 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1180.281	-82.62	-75.3	7.32	Peak	338.00	Horizontal	Horizontal	Pass
2	2632.057	-71.06	-51.3	19.76	Peak	338.00	Horizontal	Horizontal	Pass
3	4361.587	-70.20	-41.3	28.90	Peak	107.00	Horizontal	Horizontal	Pass
4	5970.579	-63.47	-41.3	22.17	Peak	107.00	Horizontal	Horizontal	Pass
5	6984.581	-59.27	-41.3	17.97	Peak	140.00	Horizontal	Horizontal	Pass
6	8501.678	-61.09	-41.3	19.79	Peak	140.00	Horizontal	Horizontal	Pass

UWB CH5, 10.6 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11296.695	-69.80	-51.3	18.50	Peak	127.00	Horizontal	Horizontal	Pass
2	11901.423	-65.68	-51.3	14.38	Peak	127.00	Horizontal	Horizontal	Pass
3	12724.423	-67.88	-51.3	16.58	Peak	262.00	Horizontal	Horizontal	Pass
4	13764.811	-62.46	-51.3	11.16	Peak	262.00	Horizontal	Horizontal	Pass
5	14420.405	-64.01	-51.3	12.71	Peak	267.00	Horizontal	Horizontal	Pass
6	17040.260	-64.19	-51.3	12.89	Peak	267.00	Horizontal	Horizontal	Pass

UWB CH5, 960 MHz to 10.6 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1182.552	-82.75	-75.3	6.45	Peak	73.00	Vertical	Horizontal	Pass
2	2176.031	-73.79	-51.3	22.49	Peak	73.00	Vertical	Horizontal	Pass
3	3599.010	-71.98	-41.3	30.68	Peak	177.00	Vertical	Horizontal	Pass
4	5054.887	-66.95	-41.3	25.65	Peak	177.00	Vertical	Horizontal	Pass
5	6808.796	-63.46	-41.3	22.16	Peak	243.00	Vertical	Horizontal	Pass
6	9402.359	-59.36	-41.3	18.06	Peak	243.00	Vertical	Horizontal	Pass

UWB CH5, 10.6 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11297.912	-64.16	-51.3	5.64	Peak	207.00	Vertical	Horizontal	Pass
2	11870.836	-63.31	-51.3	21.10	Peak	207.00	Vertical	Horizontal	Pass
3	13039.210	-65.70	-51.3	25.77	Peak	298.00	Vertical	Horizontal	Pass
4	13778.252	-66.55	-51.3	23.53	Peak	298.00	Vertical	Horizontal	Pass
5	15836.538	-68.31	-51.3	19.74	Peak	106.00	Vertical	Horizontal	Pass
6	17053.939	-61.50	-51.3	20.82	Peak	106.00	Vertical	Horizontal	Pass

UWB CH9, 960 MHz to 10.6 GHz, ANT H

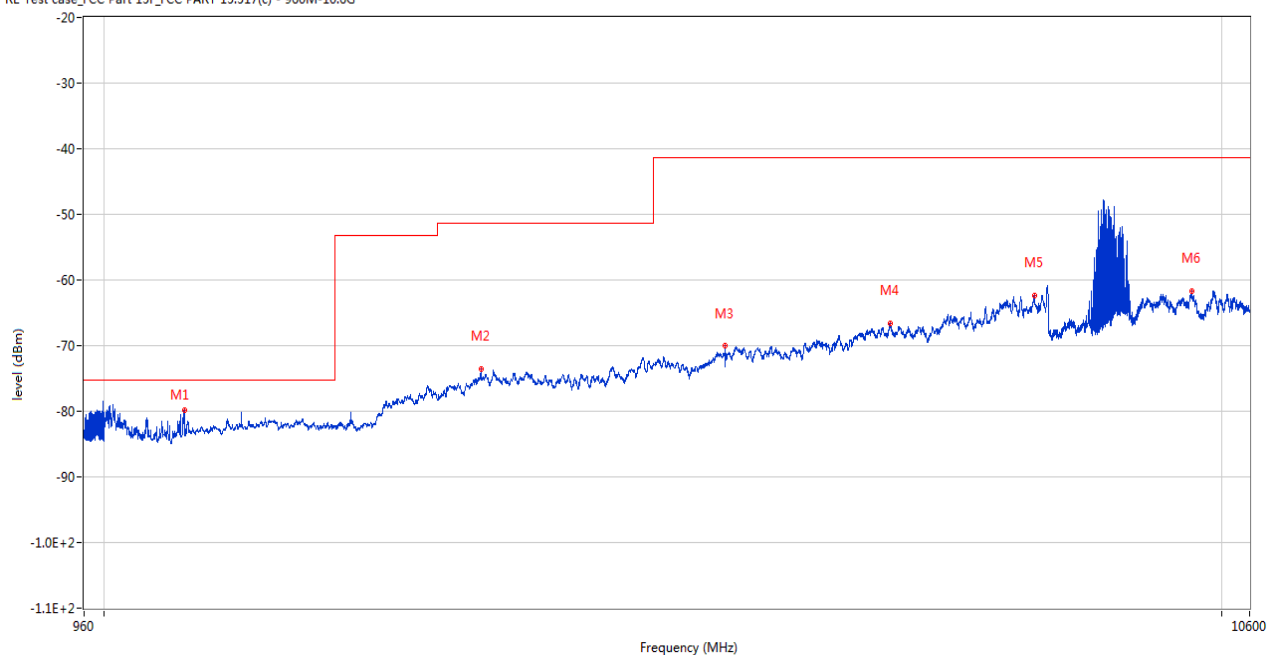
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1176.660	-80.94	-75.3	5.64	Peak	145.00	Horizontal	Horizontal	Pass
2	2177.397	-72.40	-51.3	21.10	Peak	145.00	Horizontal	Horizontal	Pass
3	3601.024	-67.07	-41.3	25.77	Peak	111.00	Horizontal	Horizontal	Pass
4	5054.286	-64.83	-41.3	23.53	Peak	111.00	Horizontal	Horizontal	Pass
5	6805.466	-61.04	-41.3	19.74	Peak	36.00	Horizontal	Horizontal	Pass
6	9405.205	-62.12	-41.3	20.82	Peak	36.00	Horizontal	Horizontal	Pass

UWB CH9, 10.6 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11299.299	-67.06	-51.3	15.76	Peak	65.00	Horizontal	Horizontal	Pass
2	11900.550	-65.68	-51.3	14.38	Peak	362.00	Horizontal	Horizontal	Pass
3	12723.800	-65.13	-51.3	13.83	Peak	25.00	Horizontal	Horizontal	Pass
4	13765.349	-63.82	-51.3	12.52	Peak	340.00	Horizontal	Horizontal	Pass
5	14422.100	-64.87	-51.3	13.57	Peak	0.00	Horizontal	Horizontal	Pass
6	17039.849	-61.50	-51.3	10.20	Peak	190.00	Horizontal	Horizontal	Pass

UWB CH9, 960 MHz to 10.6 GHz, ANT V

RE Test case_FCC Part 15F_FCC PART 15.517(c) - 960M-10.6G



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1180.000	-79.83	-75.3	4.53	Peak	304.00	Vertical	Horizontal	Pass
2	2174.000	-73.49	-51.3	22.19	Peak	304.00	Vertical	Horizontal	Pass
3	3600.000	-70.02	-41.3	28.72	Peak	97.00	Vertical	Horizontal	Pass
4	5053.000	-66.61	-41.3	25.31	Peak	97.00	Vertical	Horizontal	Pass
5	6806.000	-62.30	-41.3	21.00	Peak	78.00	Vertical	Horizontal	Pass
6	9404.800	-61.66	-41.3	20.36	Peak	78.00	Vertical	Horizontal	Pass

UWB CH9, 10.6 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11301.151	-66.95	-51.3	15.65	Peak	229.00	Vertical	Horizontal	Pass
2	11869.100	-65.65	-51.3	14.35	Peak	229.00	Vertical	Horizontal	Pass
3	13038.300	-64.11	-51.3	12.81	Peak	347.00	Vertical	Horizontal	Pass
4	13776.451	-63.94	-51.3	12.64	Peak	347.00	Vertical	Horizontal	Pass
5	15835.500	-65.82	-51.3	14.52	Peak	266.00	Vertical	Horizontal	Pass
6	17050.950	-61.39	-51.3	10.09	Peak	266.00	Vertical	Horizontal	Pass

External Antenna**UWB CH5, 960 MHz to 10.6 GHz, ANT H**

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1181.465	-80.90	-75.3	5.80	Peak	229.00	Horizontal	Horizontal	Pass
2	2635.222	-75.20	-51.3	23.90	Peak	229.00	Horizontal	Horizontal	Pass
3	4361.236	-66.97	-41.3	25.67	Peak	347.00	Horizontal	Horizontal	Pass
4	5969.673	-62.75	-41.3	21.45	Peak	347.00	Horizontal	Horizontal	Pass
5	6984.004	-63.31	-41.3	22.01	Peak	266.00	Horizontal	Horizontal	Pass
6	8504.710	-64.60	-41.3	23.30	Peak	266.00	Horizontal	Horizontal	Pass

UWB CH5, 10.6 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11300.277	-68.83	-51.3	17.53	Peak	222.00	Horizontal	Horizontal	Pass
2	11903.039	-66.24	-51.3	14.94	Peak	222.00	Horizontal	Horizontal	Pass
3	12725.469	-67.79	-51.3	16.49	Peak	355.00	Horizontal	Horizontal	Pass
4	13764.170	-63.23	-51.3	11.93	Peak	355.00	Horizontal	Horizontal	Pass
5	14418.081	-65.43	-51.3	14.13	Peak	313.00	Horizontal	Horizontal	Pass
6	17036.030	-60.50	-51.3	9.20	Peak	313.00	Horizontal	Horizontal	Pass

UWB CH5, 960 MHz to 10.6 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1181.214	-82.17	-75.3	6.87	Peak	221.00	Vertical	Horizontal	Pass
2	2174.994	-73.00	-51.3	21.70	Peak	221.00	Vertical	Horizontal	Pass
3	3598.303	-68.87	-41.3	27.57	Peak	63.00	Vertical	Horizontal	Pass
4	5049.435	-65.60	-41.3	24.30	Peak	63.00	Vertical	Horizontal	Pass
5	6804.373	-61.90	-41.3	20.60	Peak	125.00	Vertical	Horizontal	Pass
6	9405.806	-63.21	-41.3	21.91	Peak	125.00	Vertical	Horizontal	Pass

UWB CH5, 10.6 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11302.497	-64.52	-51.3	13.22	Peak	229.00	Vertical	Horizontal	Pass
2	11867.453	-65.34	-51.3	14.04	Peak	229.00	Vertical	Horizontal	Pass
3	13040.530	-65.22	-51.3	13.92	Peak	39.00	Vertical	Horizontal	Pass
4	13772.795	-63.48	-51.3	12.18	Peak	39.00	Vertical	Horizontal	Pass
5	15832.510	-65.54	-51.3	14.24	Peak	122.00	Vertical	Horizontal	Pass
6	17051.961	-64.58	-51.3	13.28	Peak	122.00	Vertical	Horizontal	Pass

UWB CH9, 960 MHz to 10.6 GHz, ANT H

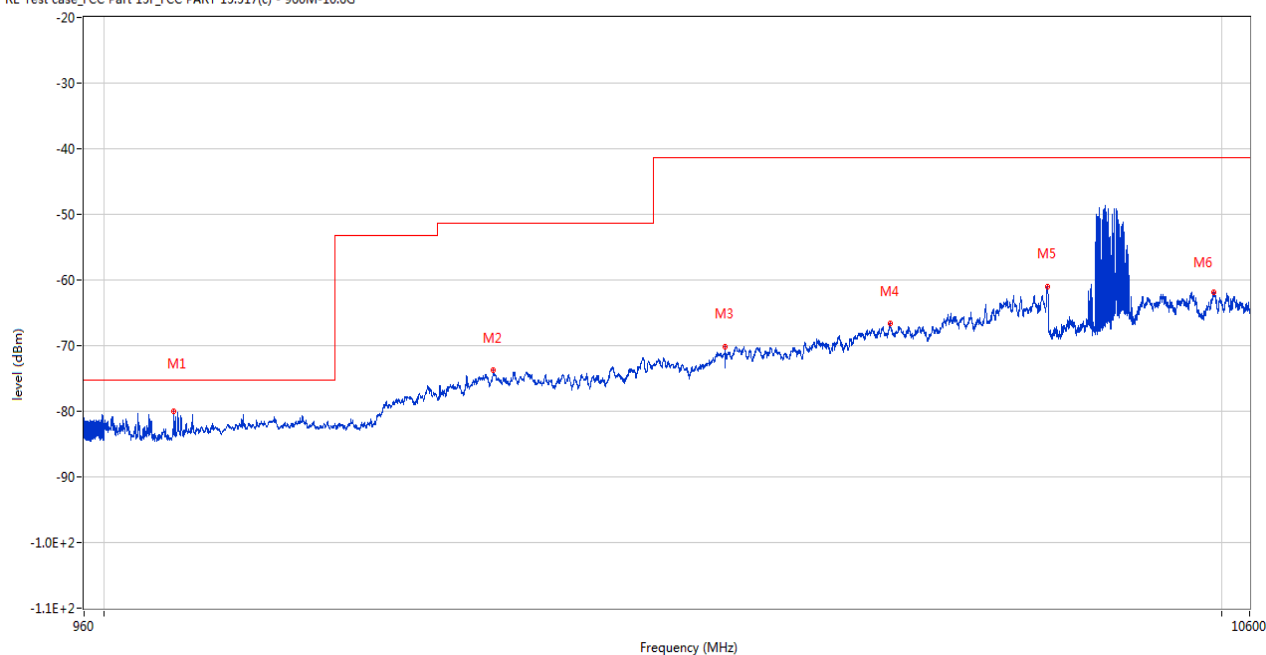
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1176.662	-81.54	-75.3	6.24	Peak	136.00	Horizontal	Horizontal	Pass
2	2173.084	-71.62	-51.3	20.32	Peak	136.00	Horizontal	Horizontal	Pass
3	3597.531	-70.13	-41.3	28.83	Peak	53.00	Horizontal	Horizontal	Pass
4	5053.883	-66.43	-41.3	25.13	Peak	53.00	Horizontal	Horizontal	Pass
5	6805.977	-65.21	-41.3	23.91	Peak	207.00	Horizontal	Horizontal	Pass
6	9401.155	-63.48	-41.3	22.18	Peak	207.00	Horizontal	Horizontal	Pass

UWB CH9, 10.6 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11302.297	-65.16	-51.3	13.86	Peak	164.00	Horizontal	Horizontal	Pass
2	11897.535	-66.66	-51.3	15.36	Peak	164.00	Horizontal	Horizontal	Pass
3	12724.911	-66.38	-51.3	15.08	Peak	155.00	Horizontal	Horizontal	Pass
4	13763.434	-66.08	-51.3	14.78	Peak	155.00	Horizontal	Horizontal	Pass
5	14424.264	-67.38	-51.3	16.08	Peak	278.00	Horizontal	Horizontal	Pass
6	17038.442	-62.78	-51.3	11.48	Peak	278.00	Horizontal	Horizontal	Pass

UWB CH9, 960 MHz to 10.6 GHz, ANT V

RE Test case_FCC Part 15F_FCC PART 15.517(c) - 960M-10.6G



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	1154.000	-79.97	-75.3	4.67	Peak	68.00	Vertical	Horizontal	Pass
2	2232.000	-73.75	-51.3	22.45	Peak	363.00	Vertical	Horizontal	Pass
3	3600.000	-70.13	-41.3	28.83	Peak	283.00	Vertical	Horizontal	Pass
4	5051.000	-66.61	-41.3	25.31	Peak	168.00	Vertical	Horizontal	Pass
5	6989.000	-61.00	-41.3	19.70	Peak	213.00	Vertical	Horizontal	Pass
6	9836.800	-61.82	-41.3	20.52	Peak	18.00	Vertical	Horizontal	Pass

UWB CH9, 10.6 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Antenna	EUT	Verdict
1	11298.168	-67.14	-51.3	15.84	Peak	48.00	Vertical	Horizontal	Pass
2	11865.924	-64.29	-51.3	12.99	Peak	48.00	Vertical	Horizontal	Pass
3	13035.284	-61.43	-51.3	10.13	Peak	281.00	Vertical	Horizontal	Pass
4	13780.398	-63.43	-51.3	12.13	Peak	281.00	Vertical	Horizontal	Pass
5	15837.493	-65.26	-51.3	13.96	Peak	243.00	Vertical	Horizontal	Pass
6	17051.023	-62.17	-51.3	10.87	Peak	243.00	Vertical	Horizontal	Pass

A.4 Radiated Emissions in GPS Bands

Test Data and Plots

PCB Patch Antenna

UWB CH5, 1.164 GHz to 1.61 GHz ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1177.728	-93.49	-85.3	8.19	104.00	Horizontal	Pass
2	1585.265	-91.4	-85.3	6.10	10.00	Horizontal	Pass

UWB CH5, 1.164 GHz to 1.61 GHz ANT V

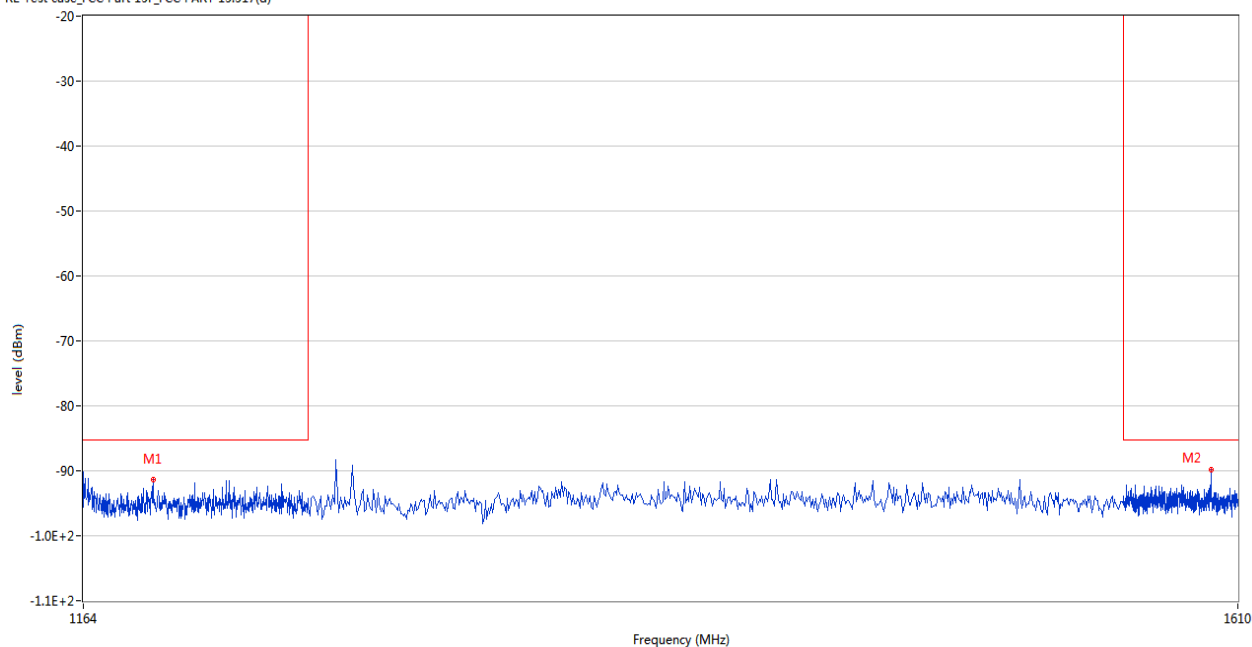
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1231.919	-93.98	-85.3	8.68	256.00	Vertical	Pass
2	1572.515	-91.55	-85.3	6.25	277.00	Vertical	Pass

UWB CH9, 1.164 GHz to 1.61 GHz ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1177.008	-92.09	-85.3	6.79	348.00	Horizontal	Pass
2	1585.265	-95.27	-85.3	9.97	346.00	Horizontal	Pass

UWB CH9, 1.164 GHz to 1.61 GHz ANT V

RE Test case_FCC Part 15F_FCC PART 15.517(d)



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1187.053	-91.33	-85.3	6.03	352.00	Vertical	Pass
2	1598.100	-89.86	-85.3	4.56	358.00	Vertical	Pass

External Antenna

UWB CH5, 1.164 GHz to 1.61 GHz ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1177.524	-94.23	-85.3	8.93	317.00	Horizontal	Pass
2	1585.265	-93.45	-85.3	8.15	30.00	Horizontal	Pass

UWB CH5, 1.164 GHz to 1.61 GHz ANT V

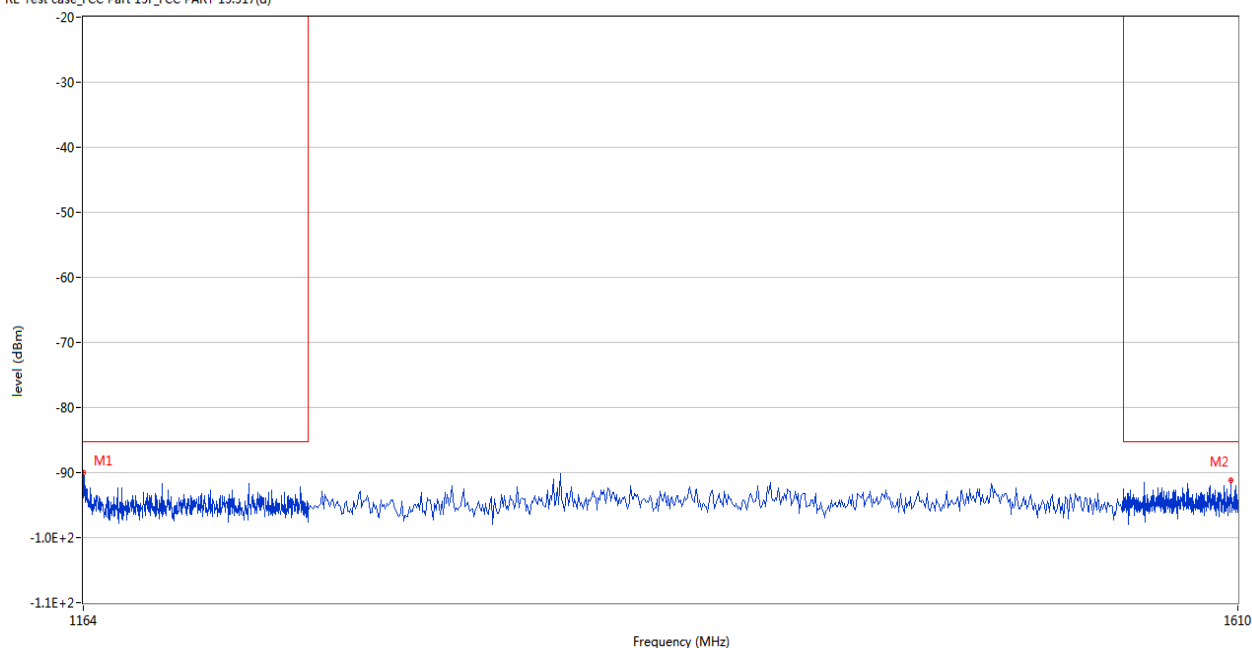
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1232.128	-92.05	-85.3	6.75	124.00	Vertical	Pass
2	1572.515	-92.92	-85.3	7.62	38.00	Vertical	Pass

UWB CH9, 1.164 GHz to 1.61 GHz ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1177.219	-93.94	-85.3	8.64	140.00	Horizontal	Pass
2	1585.265	-91.46	-85.3	6.16	70.00	Horizontal	Pass

UWB CH9, 1.164 GHz to 1.61 GHz ANT V

RE Test case_FCC Part 15F_FCC PART 15.517(d)



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Table (Degree)	Antenna	Verdict
1	1164.127	-89.98	-85.3	4.68	353.00	Vertical	Pass
2	1606.685	-91.11	-85.3	5.81	71.00	Vertical	Pass

A.5 Peak Emissions within a 50MHz Bandwidth

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
6489.6	-20.12	-4.20	≤0	Pass
7987.2	-18.97	-3.05	≤0	Pass

Test Plots

Maximum value of peak power

6489.6 MHz



7987.2 MHz



ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2570782-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2570782-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2570782-AI.PDF”.

Statement

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--END OF REPORT--