TEST REPORT

Applicant:	Hexing Electrical Co., Ltd
Address:	1418-35 Moganshan Road, Shangcheng Industrial Zone, 310011, Hangzhou City, China
Equipment Type:	Wi-SUN Module
Model Name:	MSN00
Brand Name:	HEXING
FCC ID:	2AIUZ-MSN00R239
Test Standard:	47 CFR Part 15 Subpart C (refer to section 3.1)
Sample Arrival Date:	Oct. 31, 2025
Test Date:	Nov. 10, 2025 - Dec. 17, 2025
Date of Issue:	Dec. 30, 2025

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

Tested by: Yang Wenxuan **Checked by:** Ye Hongji **Approved by:** Tolan Tu (Testing Director)

Revision History

Version	Issue Date	Revisions
Rev. 01	Dec. 19, 2025	Initial Issue
Rev. 02	Dec. 30, 2025	Delete the content of section 2.4 titled "About the Product".

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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 CN1352. The laboratory has been listed by Industry Canada to perform electromagnetic emission measurements. The recognition numbers of test site are 29671.

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Hexing Electrical Co., Ltd
Address	1418-35 Moganshan Road, Shangcheng Industrial Zone, 310011, Hangzhou City, China

2.2 Manufacturer Information

Manufacturer	Hexing Electrical Co., Ltd
Address	1418-35 Moganshan Road, Shangcheng Industrial Zone, 310011, Hangzhou City, China

2.3 General Description for Equipment under Test (EUT)

EUT Name	Wi-SUN Module
Model Name Under Test	MSN00
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	CBB2405_V1
Software Version	WLN250301_V1
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	Wi-SUN

The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	Frequency hopping system
Modulation Type	Wi-SUN
Product Type	☒ Mobile ☐ Portable ☐ Fix Location
Frequency Range	The frequency range used is 902 MHz to 928 MHz.
Number of channel	129
Tested Channel	0 (902.2 MHz), 64 (915 MHz), 128 (927.8 MHz)
Antenna Type	Iron Antenna
	Fibre-glass epoxy Antenna
Antenna Gain	3.0 dBi
Antenna System(MIMO Smart Antenna)	N/A

All channel was listed on the following table:

Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)	Channel Number	Freq. (MHz)
0	**902.2**	34	909	68	915.8	102	922.6
1	902.4	35	909.2	69	916	103	922.8
2	902.6	36	909.4	70	916.2	104	923
3	902.8	37	909.6	71	916.4	105	923.2
4	903	38	909.8	72	916.6	106	923.4
5	903.2	39	910	73	916.8	107	923.6
6	903.4	40	910.2	74	917	108	923.8
7	903.6	41	910.4	75	917.2	109	924
8	903.8	42	910.6	76	917.4	110	924.2
9	904	43	910.8	77	917.6	111	924.4
10	904.2	44	911	78	917.8	112	924.6
11	904.4	45	911.2	79	918	113	924.8
12	904.6	46	911.4	80	918.2	114	925
13	904.8	47	911.6	81	918.4	115	925.2
14	905	48	911.8	82	918.6	116	925.4
15	905.2	49	912	83	918.8	117	925.6
16	905.4	50	912.2	84	919	118	925.8
17	905.6	51	912.4	85	919.2	119	926
18	905.8	52	912.6	86	919.4	120	926.2
19	906	53	912.8	87	919.6	121	926.4
20	906.2	54	913	88	919.8	122	926.6
21	906.4	55	913.2	89	920	123	926.8
22	906.6	56	913.4	90	920.2	124	927
23	906.8	57	913.6	91	920.4	125	927.2
24	907	58	913.8	92	920.6	126	927.4
25	907.2	59	914	93	920.8	127	927.6
26	907.4	60	914.2	94	921	**128**	**927.8**
27	907.6	61	914.4	95	921.2	/	/
28	907.8	62	914.6	96	921.4	/	/
29	908	63	914.8	97	921.6	/	/
30	908.2	**64**	**915**	98	921.8	/	/
31	908.4	65	915.2	99	922	/	/
32	908.6	66	915.4	100	922.2	/	/
33	908.8	67	915.6	101	922.4	/	/

3 SUMMARY OF TEST RESULTS

3.1 Test Standards

No.	Identity	Document Title
1	47 CFR Part 15, Subpart C	Intentional radiators of radio frequency equipment
2	KDB Publication 558074 D01v05r02	GUIDANCE FOR COMPLIANCE MEASUREMENTS ON DIGITAL TRANSMISSION SYSTEM, FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM, AND HYBRID SYSTEM DEVICES OPERATING UNDER SECTION 15.247 OF THE FCC RULES
3	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.	Modulation Technology	Channel	Test Result	Verdict
1	Antenna Requirement	15.203	N/A	N/A	--	Pass[Note]
2	Number of Hopping Frequencies	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.1	Pass
3	Peak Output Power	15.247(b)	Frequency hopping system	Low/Middle/ High	ANNEX A.2	Pass
4	Occupied Bandwidth	15.247(a)	Frequency hopping system	Low/Middle/ High	ANNEX A.3	Pass
5	Carrier Frequency Separation	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.4	Pass
6	Time of Occupancy (Dwell time)	15.247(a)	Frequency hopping system	Hopping Mode	ANNEX A.5	Pass
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Frequency hopping system	Low/Middle/ High, Hopping Mode	ANNEX A.6	Pass
8	Conducted Emission	15.207	Frequency hopping system	Low/Middle/ High	ANNEX A.7	Pass
9	Radiated Spurious Emission	15.209 15.247(d)	Frequency hopping system	Low/Middle/ High, Hopping Mode	ANNEX A.8	Pass
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Frequency hopping system	Low/Middle/ High, Hopping Mode	ANNEX A.9	Pass
Note: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.						

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	46% to 69%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.2℃ to +25.4℃
Working Voltage of the EUT	NV (Normal Voltage)	3.9 V

4.2 Test Equipment List

Description	Manufacturer	Model	Serial No.	Cal. Date	Cal. Due
Spectrum Analyzer	KEYSIGHT	N9020A	MY54420186	2025.05.21	2026.05.20
Power meter	R&S	NRP8S	101498	2025.07.07	2026.07.06
Spectrum Analyzer	R&S	FSV40	101544	2024.12.16	2025.12.15
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	N/A	2024.05.15	2027.05.11
EMI Receiver	Keysight	N9038A	MY55330121	2025.04.16	2026.04.15
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	2025.04.01	2026.03.31
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
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
Anechoic Chamber	EMC Electronic Co., Ltd	20.10*11.60*7.35m	130	2024.07.13	2027.07.12
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.

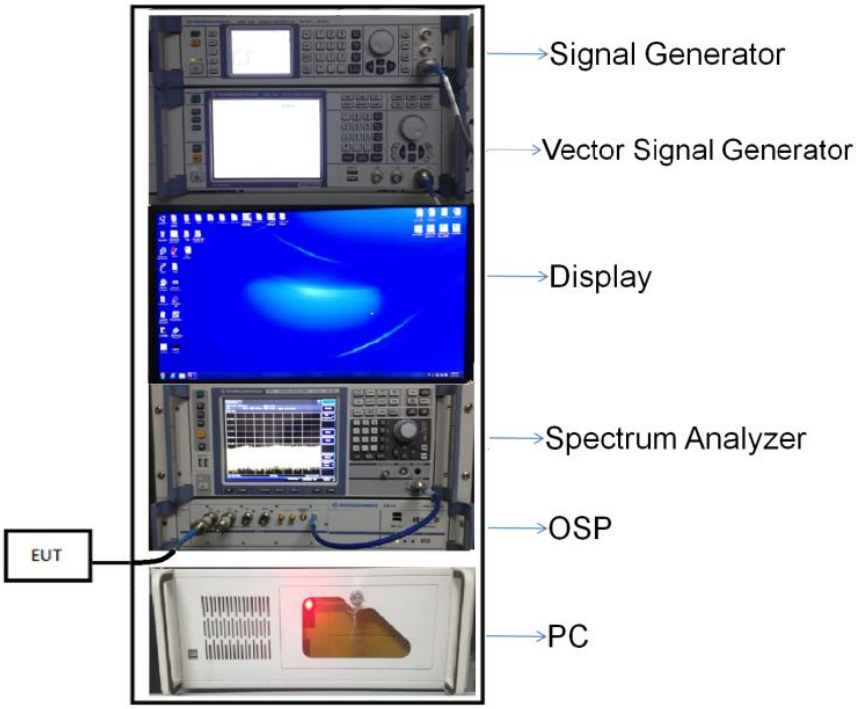
Parameters	Uncertainty
Occupied Channel Bandwidth	2.8%
RF output power, conducted	1.28 dB
Power Spectral Density, conducted	1.30 dB
Unwanted Emissions, conducted	1.84 dB
All emissions, radiated	5.36 dB
Temperature	0.8°C
Humidity	4%

4.4 Description of Test Setup

4.4.1 For Antenna Port Test

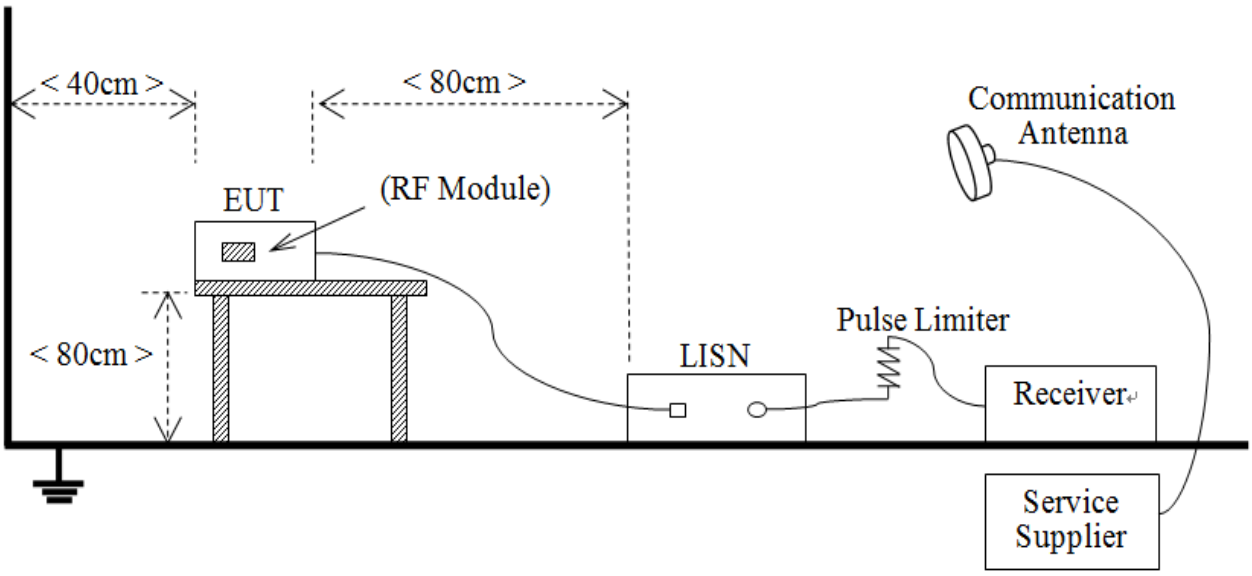
Conducted value (dBm) = Measurement value (dBm) + cable loss (dB)

For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:
Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



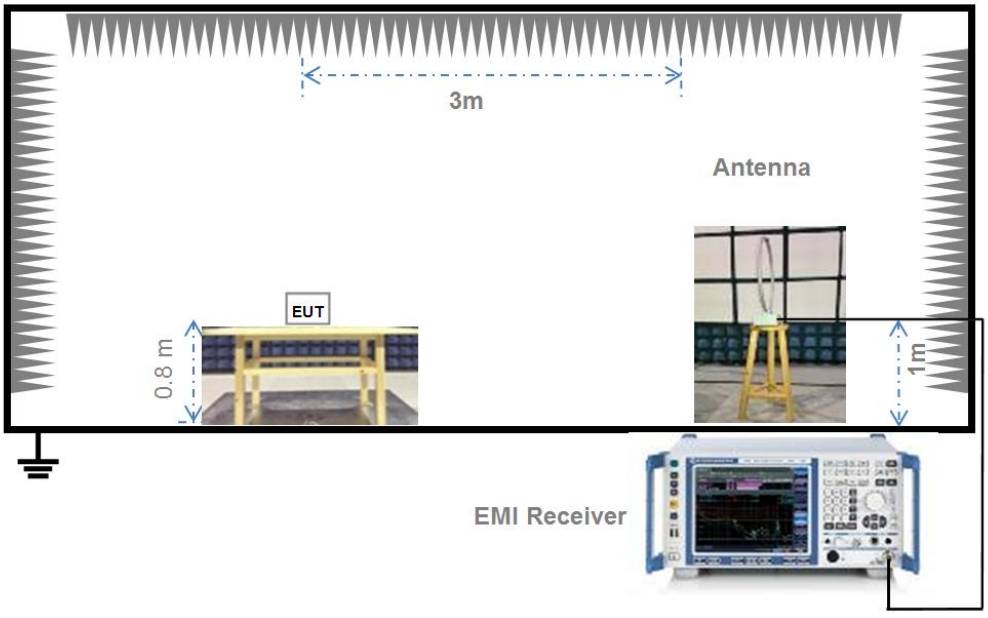
(Diagram 1)

4.4.2 For AC Power Supply Port Test



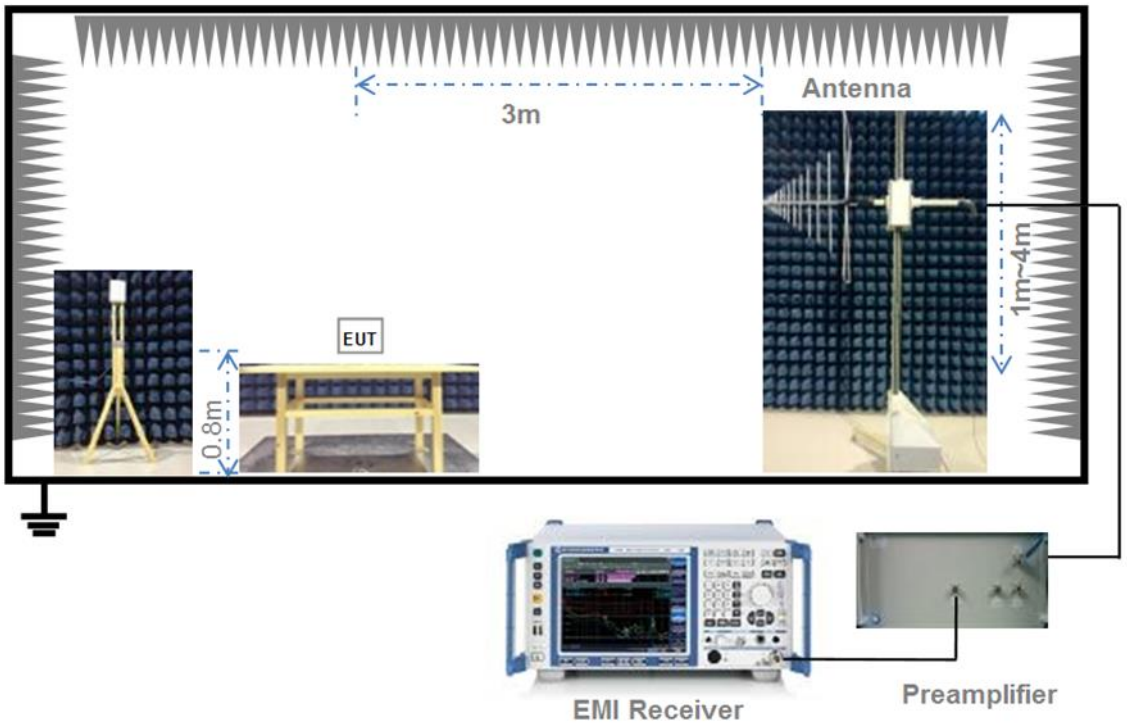
(Diagram 2)

4.4.3 For Radiated Test (Below 30 MHz)



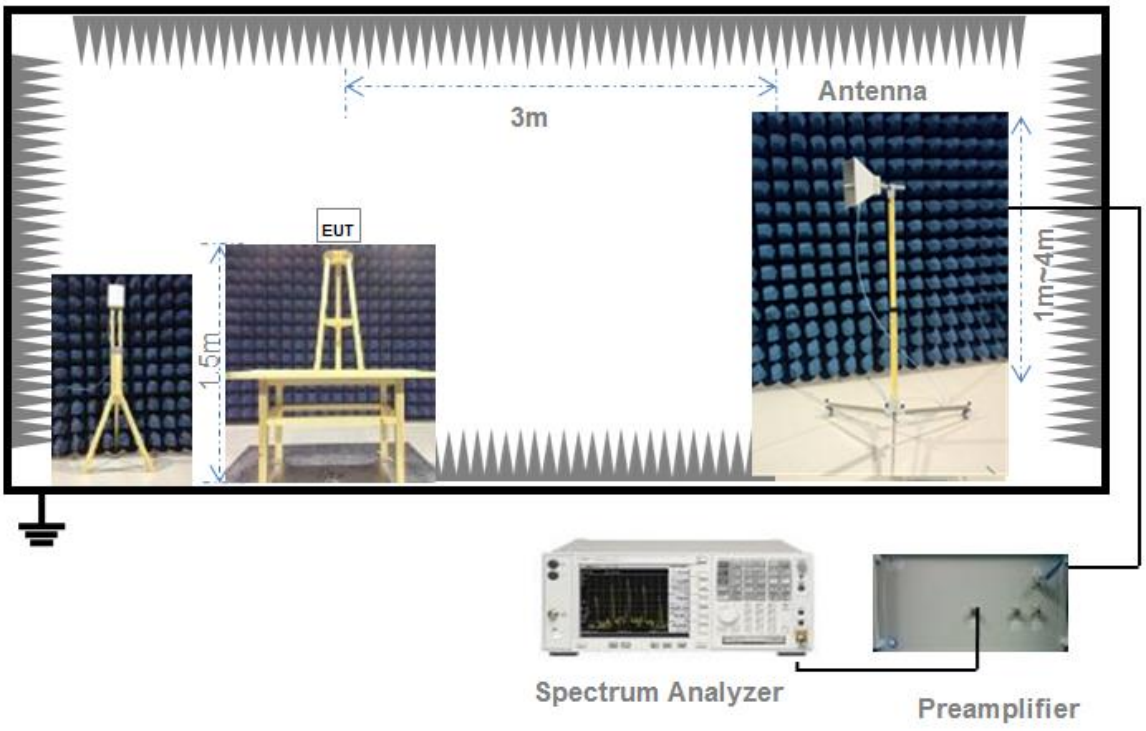
(Diagram 3)

4.4.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.4.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.5 Measurement Results Explanation Example

4.5.1 For conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuator between EUT conducted output port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly the EUT RF output level.
The spectrum analyzer offset is derived from RF cable loss and attenuator factor.
Offset = RF cable loss + attenuator factor.

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.

If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

Protected Method	Description
The antenna is embedded in the product	The antenna is welded on the mainboard, can’t be replaced by the consumer

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

5.1.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Number of Hopping Frequencies

5.2.1 Limit

FCC §15.247(a)

For FHSs in the band 902-928 MHz: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 20-second period. If the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping channels and the average time of occupancy on any channel shall not be greater than 0.4 seconds within a 10-second period. The maximum 20 dB bandwidth of the hopping channel shall be 500 kHz.

5.2.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.2.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = the frequency band of operation

RBW ≥ 1% of the span

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.2.4 Test Result

Please refer to ANNEX A.1.

5.3 Peak Output Power

5.3.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

5.3.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

The Module operates at hopping-off test mode. The lowest, middle and highest channels are selected to perform testing to verify the conducted RF output peak power of the Module.

Use the following spectrum analyzer settings:

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

RBW > the 20 dB bandwidth of the emission being measured

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.3.4 Test Result

Please refer to ANNEX A.2.

5.4 Occupied Bandwidth

5.4.1 Limit

FCC §15.247(a)

5.4.2 Test Setup

See section 4.4.1 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:

Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel

RBW = in the range of 1% to 5% of the OBW

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

The EUT should be transmitting at its maximum data rate, Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.3.

5.5 Carrier Frequency Separation

5.5.1 Limit

FCC §15.247(a)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

5.5.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

Span = wide enough to capture the peaks of two adjacent channels

Resolution (or IF) Bandwidth (RBW) ≥ 1% of the span

Video (or Average) Bandwidth (VBW) ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels.

5.5.4 Test Result

Please refer to ANNEX A.4.

5.6 Time of Occupancy (Dwell time)

5.6.1 Limit

FCC §15.247(a)

For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period.

5.6.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The lowest, middle and highest channels are selected to perform testing to record the dwell time of each occupation measured in this channel, which is called Pulse Time here.

5.6.4 Test Result

Please refer to ANNEX A.5.

5.7 Conducted Spurious Emission & Authorized-band band-edge

5.7.1 Limit

FCC §15.247(d)

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

5.7.2 Test Setup

See section 4.4.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the in-band emission and all spurious emissions (e.g., harmonics) from the lowest frequency generated in the EUT up through the 10th harmonic. Typically, several plots are required to cover this entire span.
RBW = 100 kHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
Allow the trace to stabilize

5.7.4 Test Result

Please refer to ANNEX A.6.

5.8 Conducted Emission

5.8.1 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

5.8.2 Test Setup

See section 4.4.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.8.3 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.

5.8.4 Test Result

Please refer to ANNEX A.7.

5.9 Radiated Spurious Emission

5.9.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

According to FCC section 15.209 (a), except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength (μV/m)	Measurement Distance (m)
0.009 - 0.490	902/F(kHz)	300
0.490 - 1.705	9020/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

Note:

1. Field Strength (dBμV/m) = 20*log[Field Strength (μV/m)].
2. In the emission tables above, the tighter limit applies at the band edges.
3. For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.
4. For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK).

5.9.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.9.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. 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. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

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 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold
For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.9.4 Test Result

Please refer to ANNEX A.8.

5.10 Band Edge (Restricted-band band-edge)

5.10.1 Limit

FCC §15.209&15.247(d)

Radiated emission outside the frequency band attenuation below the general limits specified in FCC section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in FCC section 15.205(a), must also comply with the radiated emission limits specified in FCC section 15.209(a).

5.10.2 Test Setup

See section 4.4.3 to 4.4.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.10.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. 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. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

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 MHz for f ≥ 1 GHz, 100 kHz for f < 1 GHz
VBW ≥ RBW
Sweep = auto
Detector function = peak
Trace = max hold

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.10.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

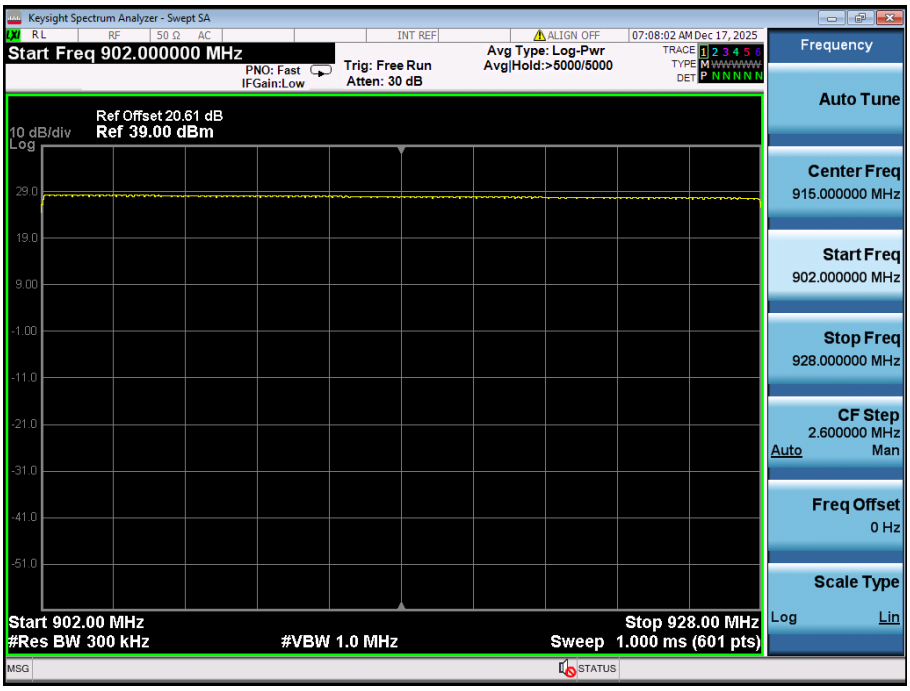
A.1 Number of Hopping Frequency

Test Data

Test Mode	Frequency Block (MHz)	Measured Channel Numbers	Min. Limit	Verdict
Wi-SUN	902-928	129	50	Pass

Test Plots

Wi-SUN



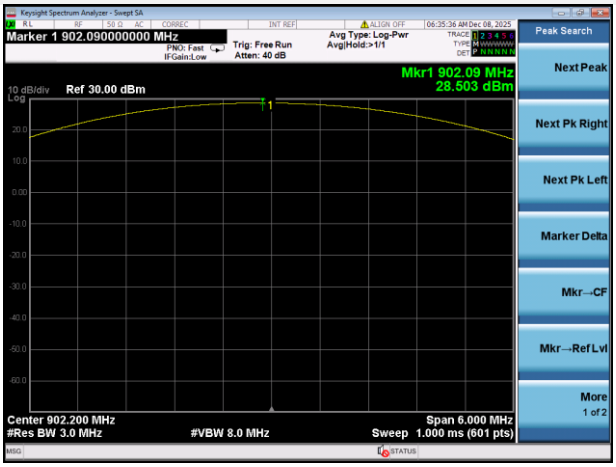
A.2 Peak Output Power and E.I.R.P

Peak Power Test Data

Channel	Measured Output Peak Power		Limit		Verdict
	Wi-SUN		dBm	mW	
	dBm	mW			
Low	28.50	708.43	30	1000	Pass
Middle	28.17	655.99			Pass
High	28.85	766.83			Pass

Test Plots

LOW CHANNEL



MIDDLE CHANNEL

HIGH CHANNEL

A.3 20 dB and 99% bandwidth

Test Data

Wi-SUN			
Channel	20 dB Bandwidth (MHz)	99% Bandwidth (MHz)	Verdict
Low	0.151000	0.102500	Pass
Middle	0.152000	0.103520	Pass
High	0.151500	0.103230	Pass

Test Plots

20 dB Bandwidth

LOW CHANNEL

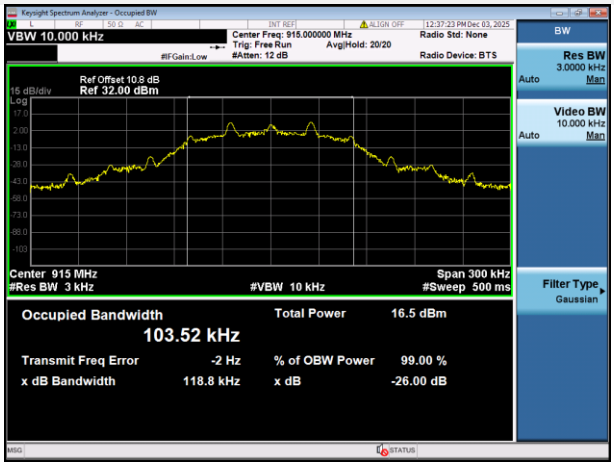
MIDDLE CHANNEL

HIGH CHANNEL

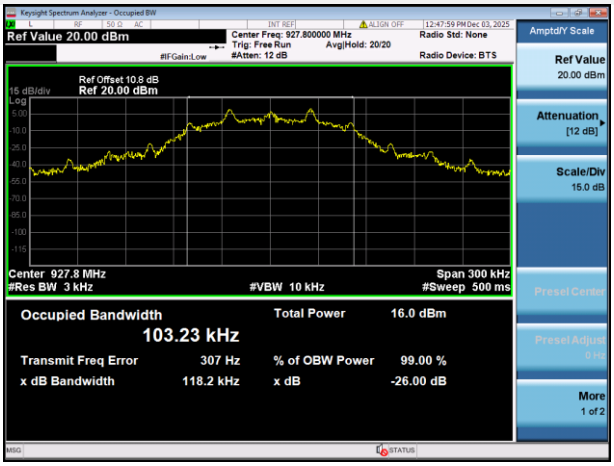
99% Bandwidth

LOW CHANNEL

MIDDLE CHANNEL



HIGH CHANNEL



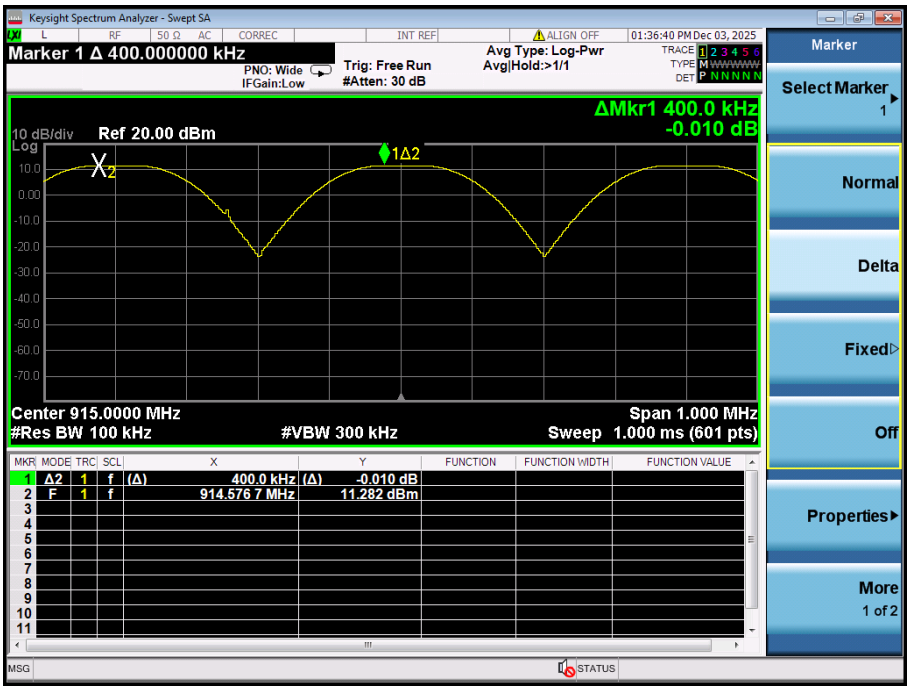
A.4 Hopping Frequency Separation

Test Data

Mode	Frequency separation (MHz)	Max 20 dB Bandwidth (MHz)	Verdict
Wi-SUN	0.4	0.152	Pass

Test Plots

Wi-SUN



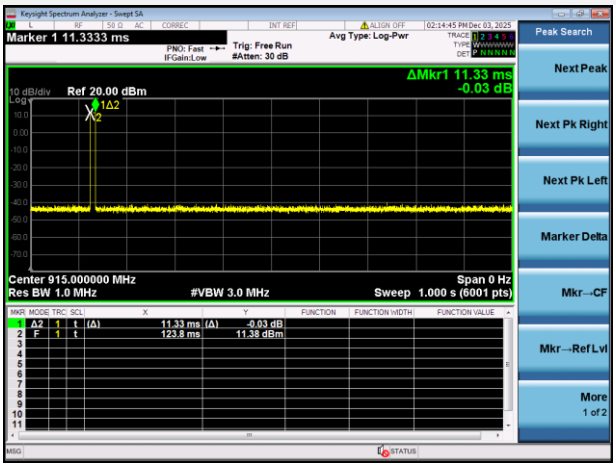
A.5 Average Time of Occupancy

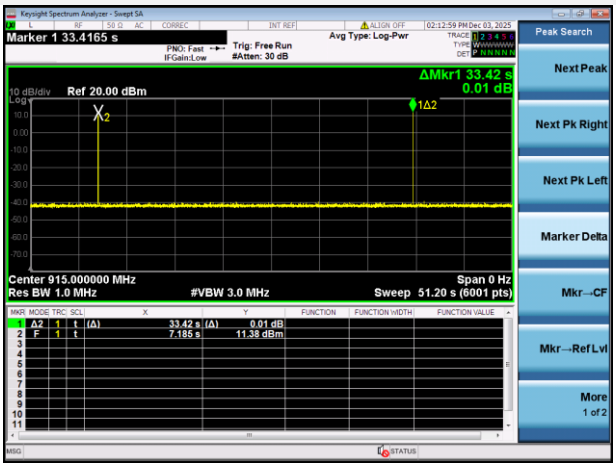
Test Data

Pulse Width (ms)	Total of Dwell (ms)	Limit (sec)	Verdict
11.33000	11.330	0.4	Pass

Test Plots

Wi-SUN





A.6 Conducted Spurious Emissions & Authorized-band band-edge

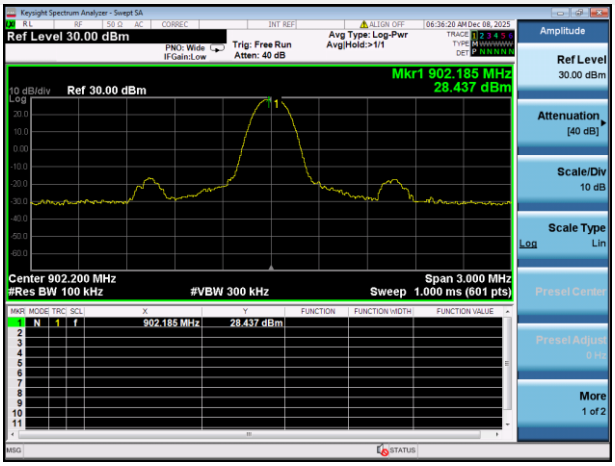
Test Data

Wi-SUN				
Channel	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Low	-15.80	28.44	8.44	Pass
Middle	-16.02	28.09	8.09	Pass
High	-15.26	28.76	8.76	Pass

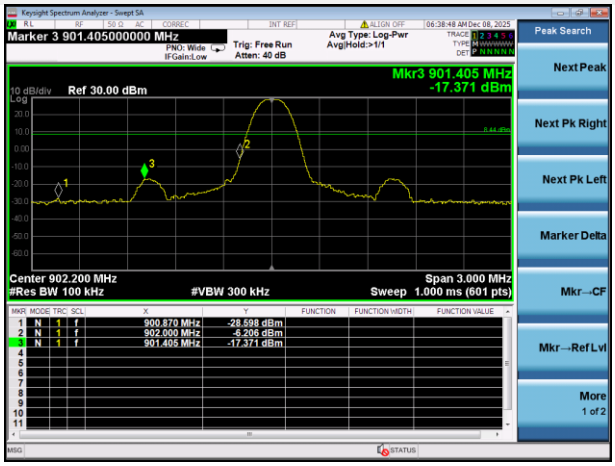
Wi-SUN				
Mode	Measured Max. Out of Band Emission (dBm)	Limit (dBm)		Verdict
		Carrier Level	Calculated 20 dBc Limit	
Hopping	-17.08	28.71	8.71	Pass

Test Plots

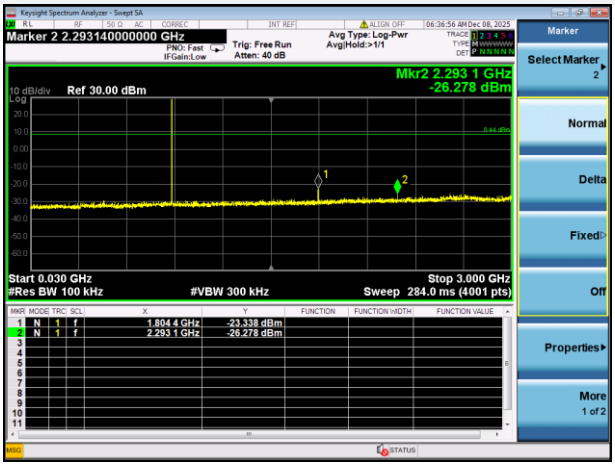
LOW CHANNEL, CARRIER LEVEL



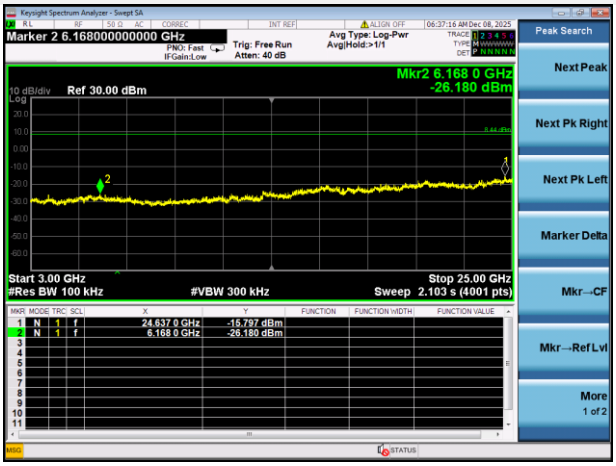
LOW CHANNEL, BAND EDGE



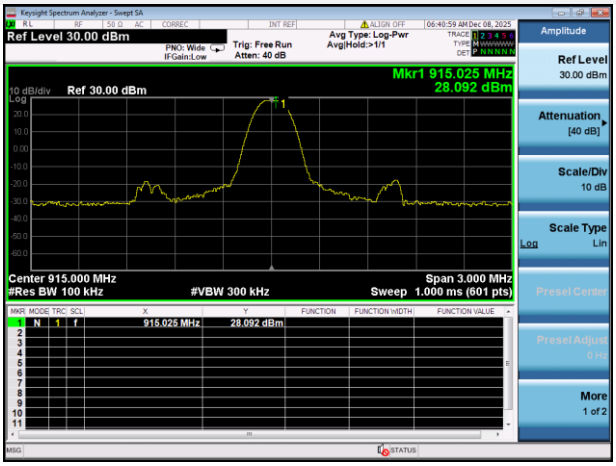
LOW CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



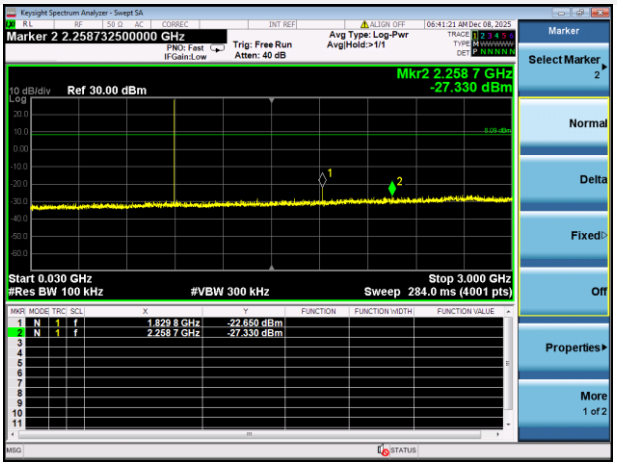
LOW CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



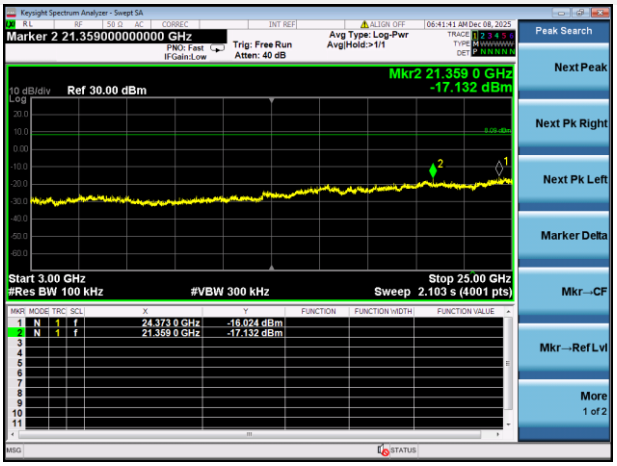
MIDDLE CHANNEL, CARRIER LEVEL



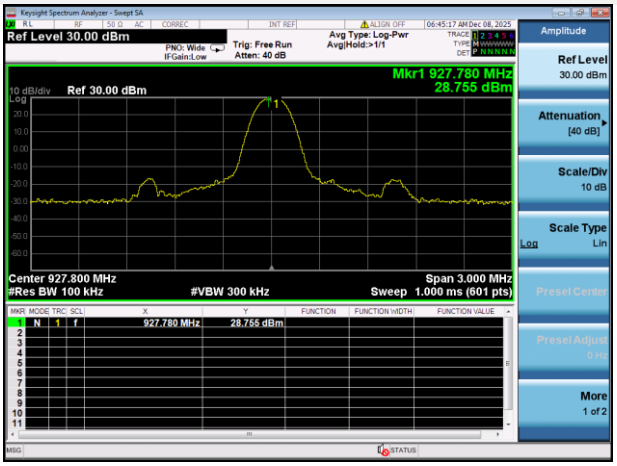
MIDDLE CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



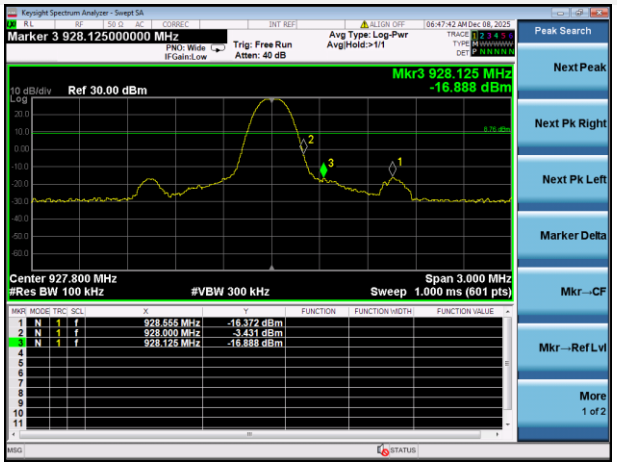
MIDDLE CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



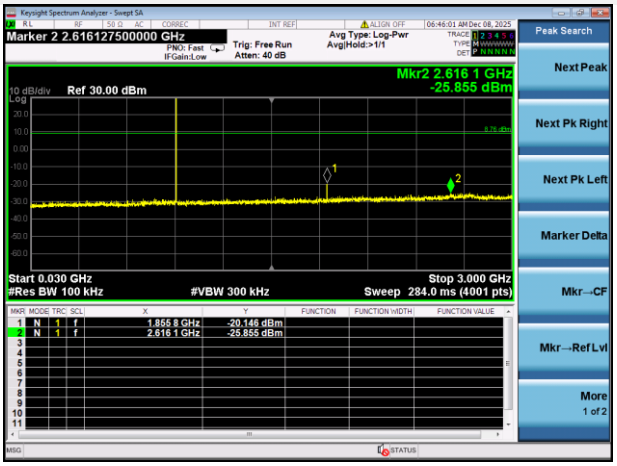
HIGH CHANNEL, CARRIER LEVEL



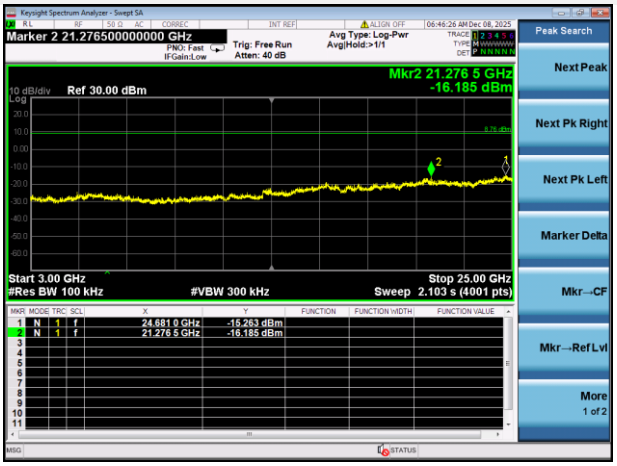
HIGH CHANNEL, BAND EDGE



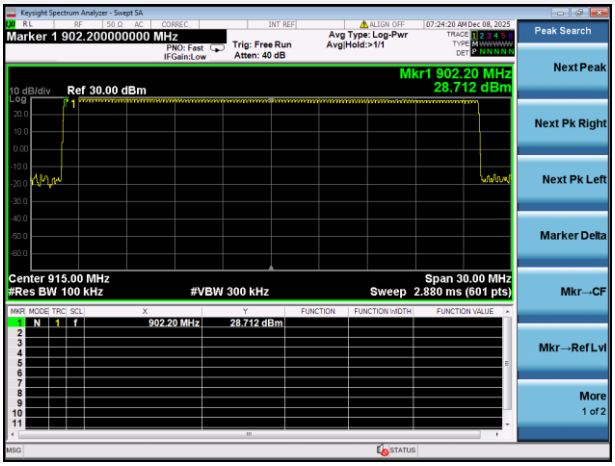
HIGH CHANNEL, SPURIOUS 30 MHz ~ 3 GHz



HIGH CHANNEL, SPURIOUS 3 GHz ~ 25 GHz



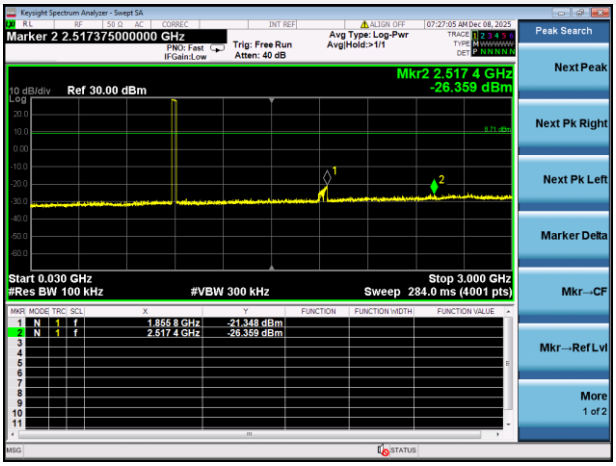
HOPPING, CARRIER LEVEL



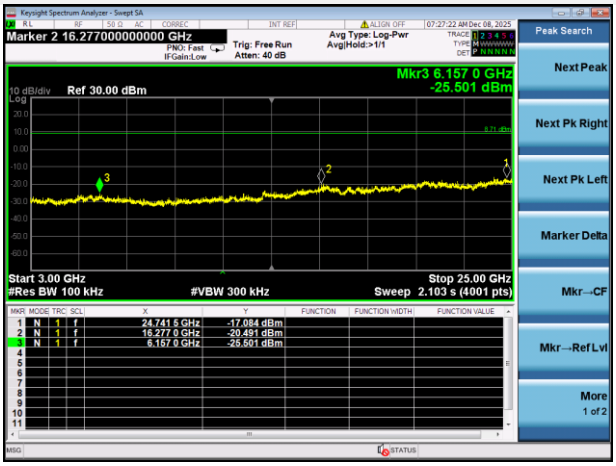
HOPPING BAND EDGE (LOW)

HOPPING BAND EDGE (HIGH)

Hopping Mode, SPURIOUS 30 MHz ~ 3 GHz



Hopping Mode, SPURIOUS 3GHz ~ 25 GHz



A.7 Conducted Emissions

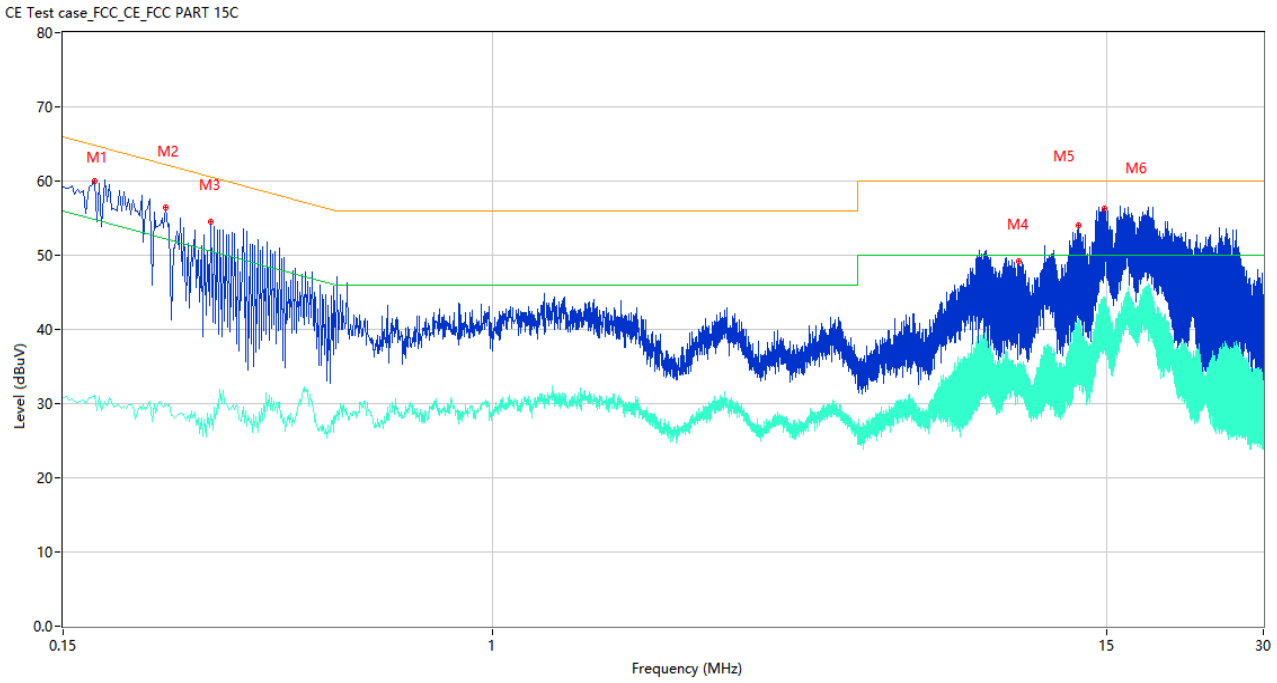
Note [1]: The EUT is working in the Normal link mode. All modes have been tested and normal link mode is worst.

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 (120 VAC, 60 Hz) shown here.

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

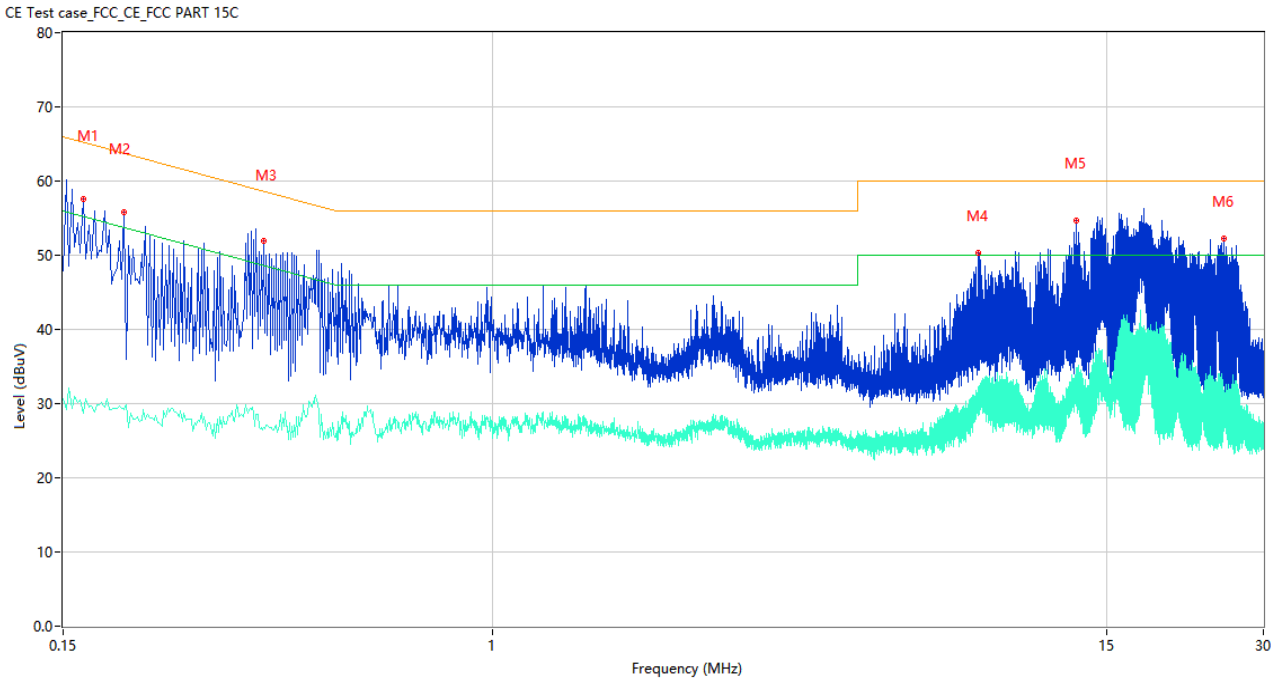
Test Data and Plots

PHASE L



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.172	60.62	9.85	64.86	4.24	Peak	L	Pass
1**	0.172	31.94	9.85	54.86	22.92	AV	L	Pass
2	0.236	55.38	9.83	62.24	6.86	Peak	L	Pass
2**	0.236	33.06	9.83	52.24	19.18	AV	L	Pass
3	0.288	54.47	9.82	60.58	6.11	Peak	L	Pass
3**	0.288	28.57	9.82	50.58	22.01	AV	L	Pass
4	10.190	49.21	10.60	60.00	10.79	Peak	L	Pass
4**	10.190	33.60	10.60	50.00	16.40	AV	L	Pass
5	13.272	53.98	10.74	60.00	6.02	Peak	L	Pass
5**	13.272	40.60	10.74	50.00	9.40	AV	L	Pass
6	14.856	56.36	10.71	60.00	3.64	Peak	L	Pass
6**	14.856	42.44	10.71	50.00	7.56	AV	L	Pass

PHASE N



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.164	57.63	9.85	65.26	7.63	Peak	N	Pass
1**	0.164	28.77	9.85	55.26	26.49	AV	N	Pass
2	0.196	55.88	9.84	63.78	7.90	Peak	N	Pass
2**	0.196	28.91	9.84	53.78	24.87	AV	N	Pass
3	0.364	51.93	10.76	58.64	6.71	Peak	N	Pass
3**	0.364	27.41	10.76	48.64	21.23	AV	N	Pass
4	8.532	50.33	10.32	60.00	9.67	Peak	N	Pass
4**	8.532	29.07	10.32	50.00	20.93	AV	N	Pass
5	13.128	54.63	10.61	60.00	5.37	Peak	N	Pass
5**	13.128	30.77	10.61	50.00	19.23	AV	N	Pass
6	25.266	52.28	10.93	60.00	7.72	Peak	N	Pass
6**	25.266	30.86	10.93	50.00	19.14	AV	N	Pass

A.8 Radiated Spurious Emission

Note [1]: The symbol of "--" in the table which means not application.

Note [2]: For the test data above 1 GHz, according the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

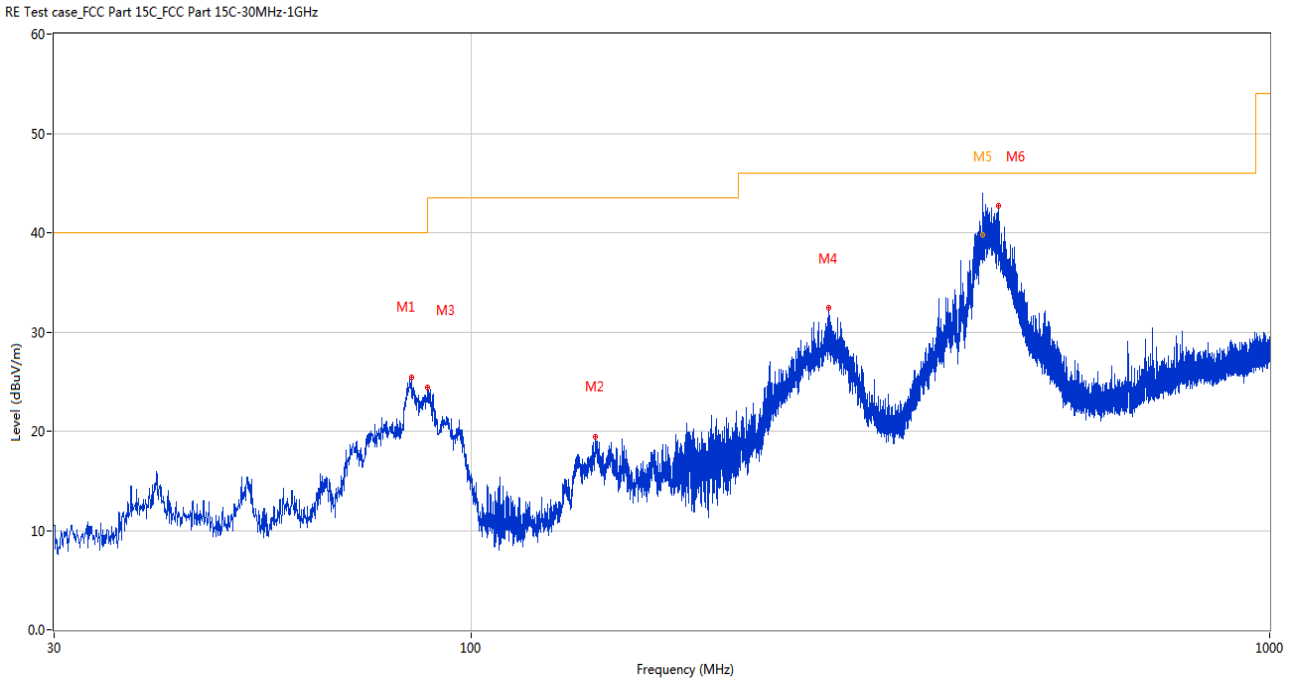
Note [3]: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

Note [4]: The worst configurations is below 1 GHz, only the worst configuration (Low Channel) shown here.

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 15.31(o) was not reported.

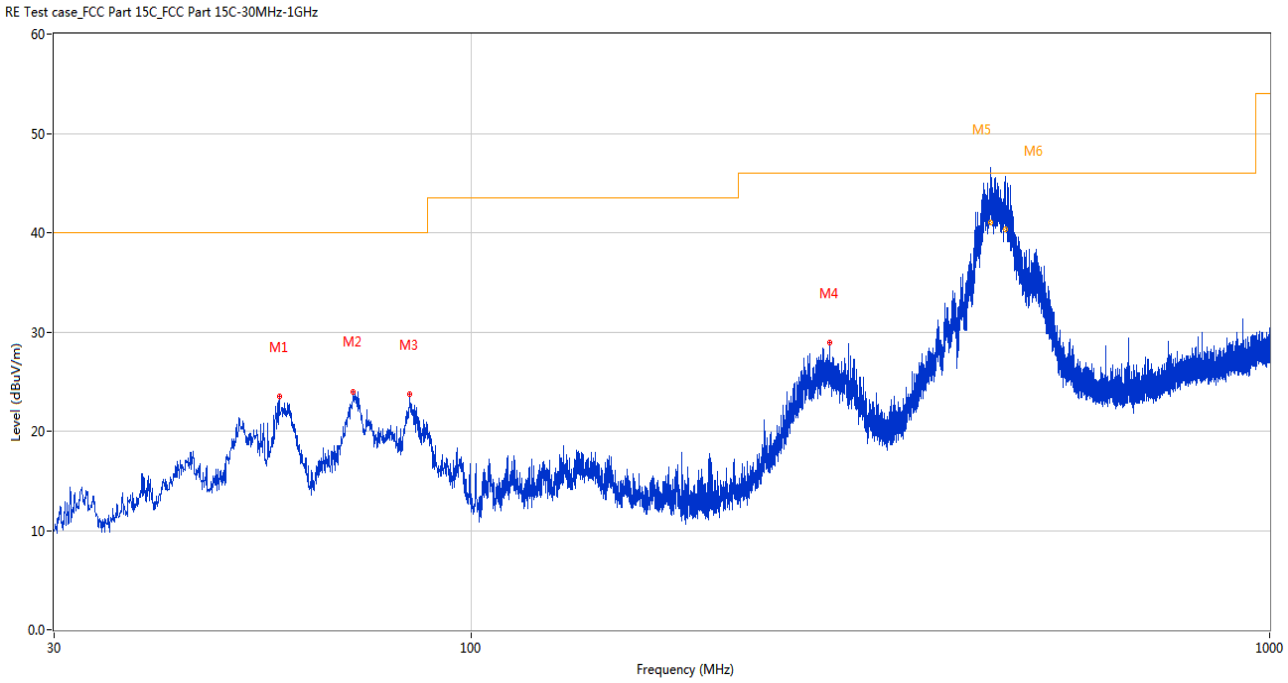
Test Data and Plots

30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	84.029	25.47	-30.39	40.0	14.53	Peak	0.00	200	Horizontal	Pass
2	143.005	19.48	-25.24	43.5	24.02	Peak	309.00	200	Horizontal	Pass
3	88.200	24.40	-31.12	43.5	19.10	Peak	360.00	200	Horizontal	Pass
4	280.017	32.40	-24.17	46.0	13.60	Peak	11.00	100	Horizontal	Pass
5	437.206	43.98	-19.47	46.0	2.02	Peak	354.00	100	Horizontal	N/A
5*	437.206	39.75	-19.47	46.0	6.25	QP	354.00	100	Horizontal	Pass
6	457.527	42.66	-19.06	46.0	3.34	Peak	174.00	200	Horizontal	Pass

30 MHz to 1 GHz, ANT V



No.	Frequency (MHz)	Results (dBuV/m)	Factor (dB/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	57.403	23.47	-26.21	40.0	16.53	Peak	226.00	100	Vertical	Pass
2	71.079	24.01	-27.98	40.0	15.99	Peak	226.00	100	Vertical	Pass
3	83.738	23.69	-30.33	40.0	16.31	Peak	225.00	200	Vertical	Pass
4	280.890	28.91	-24.06	46.0	17.09	Peak	225.00	200	Vertical	Pass
5	447.294	46.56	-19.19	46.0	-0.56	Peak	87.00	200	Vertical	N/A
5*	447.294	41.06	-19.19	46.0	4.94	QP	87.00	200	Vertical	Pass
6	466.888	45.70	-18.71	46.0	0.30	Peak	87.00	200	Vertical	N/A
6*	466.888	40.30	-18.71	46.0	5.70	QP	87.00	200	Vertical	Pass

Test Data

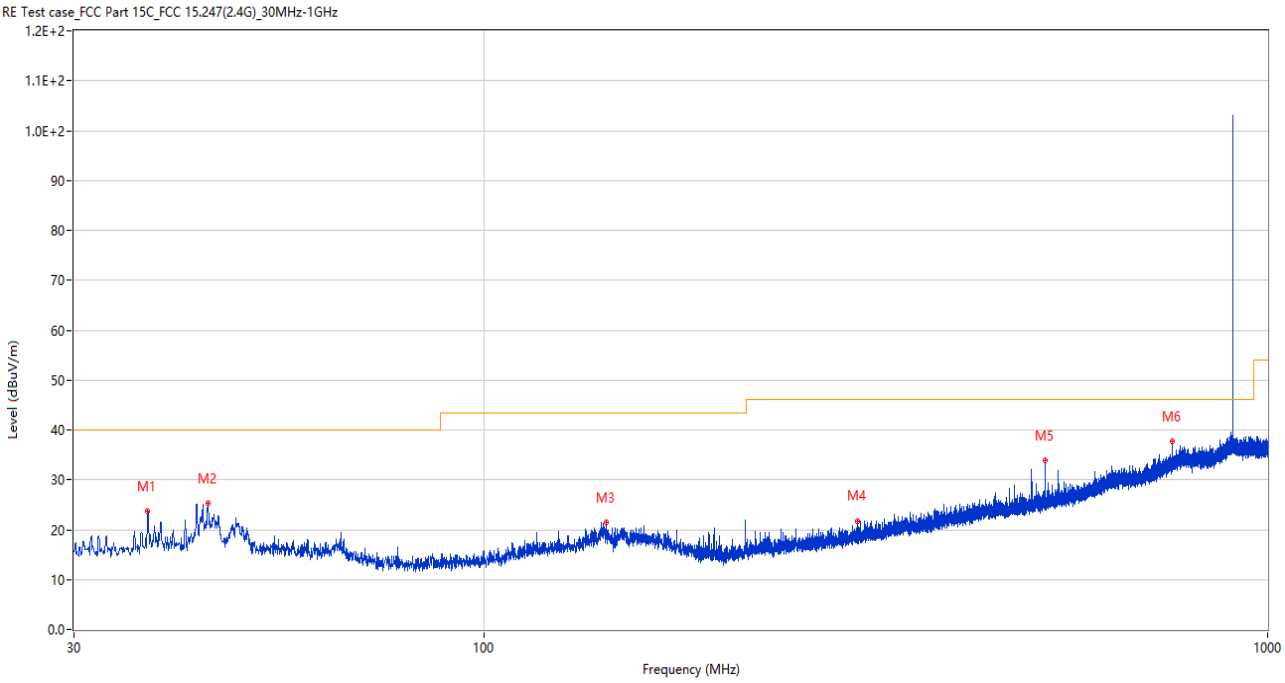
LOW CHANNEL 30 MHz to 1 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	55.345	20.59	40.0	19.41	Peak	157.00	400	Horizontal	Pass
2	141.273	21.52	43.5	21.98	Peak	157.00	400	Horizontal	Pass
3	220.487	32.10	43.5	11.40	Peak	291.00	300	Horizontal	Pass
4	260.736	27.58	43.5	15.92	Peak	291.00	300	Horizontal	Pass
5	460.168	25.86	46.0	20.14	Peak	29.00	200	Horizontal	Pass
6	742.517	35.48	46.0	10.52	Peak	29.00	200	Horizontal	Pass

LOW CHANNEL 30 MHz to 1 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	50.793	21.16	40.0	18.84	Peak	349.00	400	Vertical	Pass
2	141.827	29.10	43.5	14.40	Peak	349.00	400	Vertical	Pass
3	154.687	26.85	43.5	16.65	Peak	262.00	200	Vertical	Pass
4	408.466	27.43	46.0	18.57	Peak	262.00	200	Vertical	Pass
5	637.508	32.12	46.0	13.88	Peak	160.00	200	Vertical	Pass
6	776.761	37.12	46.0	8.88	Peak	160.00	200	Vertical	Pass

MIDDLE CHANNEL 30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	37.275	23.67	40.0	16.33	Peak	7.00	150	Horizontal	Pass
2	44.453	25.20	40.0	14.80	Peak	218.00	150	Horizontal	Pass
3	143.393	21.50	43.5	22.00	Peak	161.00	150	Horizontal	Pass
4	300.048	21.78	46.0	24.22	Peak	174.00	150	Horizontal	Pass
5	520.044	33.87	46.0	12.13	Peak	360.00	150	Horizontal	Pass
6	756.045	37.80	46.0	8.20	Peak	133.00	150	Horizontal	Pass

MIDDLE CHANNEL 30 MHz to 1 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	52.090	20.90	40.0	19.10	Peak	15.00	300	Vertical	Pass
2	141.083	26.78	43.5	16.72	Peak	15.00	100	Vertical	Pass
3	159.514	27.17	43.5	16.33	Peak	68.00	200	Vertical	Pass
4	405.803	25.21	46.0	20.79	Peak	68.00	400	Vertical	Pass
5	639.614	30.62	46.0	15.38	Peak	225.00	100	Vertical	Pass
6	777.533	35.52	46.0	10.48	Peak	225.00	100	Vertical	Pass

HIGH CHANNEL 30 MHz to 1 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	53.479	21.63	40.0	18.37	Peak	108.00	100	Horizontal	Pass
2	137.357	26.44	43.5	17.06	Peak	108.00	400	Horizontal	Pass
3	215.652	32.19	43.5	11.31	Peak	9.00	400	Horizontal	Pass
4	259.351	22.73	43.5	20.77	Peak	9.00	100	Horizontal	Pass
5	457.041	25.68	46.0	20.32	Peak	260.00	200	Horizontal	Pass
6	743.168	34.18	46.0	11.82	Peak	260.00	100	Horizontal	Pass

HIGH CHANNEL 30 MHz to 1 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	54.897	20.66	40.0	19.34	Peak	210.00	100	Vertical	Pass
2	137.325	28.60	43.5	14.90	Peak	210.00	100	Vertical	Pass
3	155.024	29.51	43.5	13.99	Peak	335.00	300	Vertical	Pass
4	407.229	29.82	46.0	16.18	Peak	335.00	300	Vertical	Pass
5	635.286	34.87	46.0	11.13	Peak	209.00	200	Vertical	Pass
6	776.877	36.14	46.0	9.86	Peak	209.00	200	Vertical	Pass

Note [1]: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note [2]: The spurious from 18GHz-25GHz is noise only, do not show on the report.

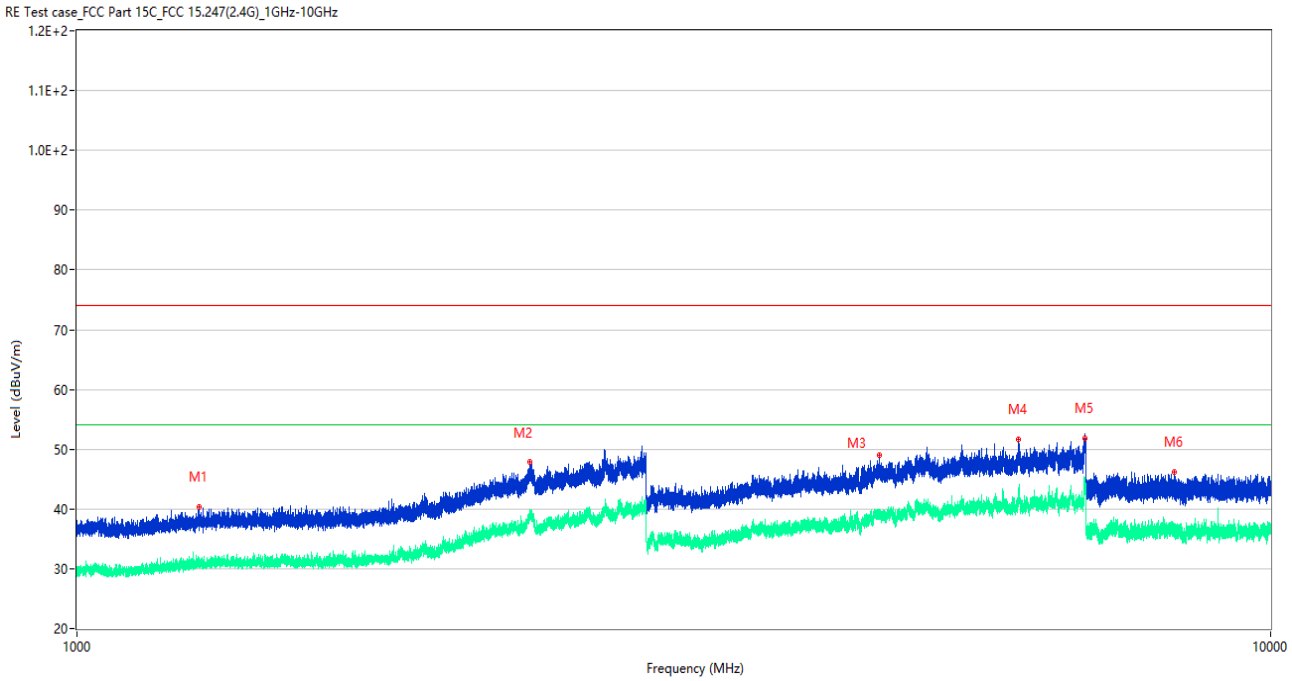
LOW CHANNEL 1 GHz to 10 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1265.418	41.00	74.0	33.00	Peak	350.00	100	Horizontal	Pass
1**	1265.418	32.89	54.0	21.11	AV	350.00	100	Horizontal	Pass
2	2393.382	48.00	74.0	26.00	Peak	342.00	200	Horizontal	Pass
2**	2393.382	42.55	54.0	11.45	AV	342.00	200	Horizontal	Pass
3	4619.957	48.13	74.0	25.87	Peak	268.00	200	Horizontal	Pass
3**	4619.957	39.84	54.0	14.16	AV	268.00	200	Horizontal	Pass
4	6149.893	54.13	74.0	19.87	Peak	354.00	200	Horizontal	Pass
4**	6149.893	38.34	54.0	15.66	AV	354.00	200	Horizontal	Pass
5	8301.909	48.32	74.0	25.68	Peak	160.00	100	Horizontal	Pass
5**	8301.909	38.78	54.0	15.22	AV	160.00	100	Horizontal	Pass
6	9639.809	45.19	74.0	28.81	Peak	26.00	200	Horizontal	Pass
6**	9639.809	41.82	54.0	12.18	AV	26.00	200	Horizontal	Pass

LOW CHANNEL 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1469.917	46.03	74.0	27.97	Peak	67.00	200	Vertical	Pass
1**	1469.917	32.06	54.0	21.94	AV	67.00	200	Vertical	Pass
2	2989.984	50.88	74.0	23.12	Peak	189.00	300	Vertical	Pass
2**	2989.984	42.20	54.0	11.80	AV	189.00	300	Vertical	Pass
3	4925.132	52.48	74.0	21.52	Peak	173.00	200	Vertical	Pass
3**	4925.132	43.08	54.0	10.92	AV	173.00	200	Vertical	Pass
4	6152.401	52.99	74.0	21.01	Peak	25.00	300	Vertical	Pass
4**	6152.401	41.02	54.0	12.98	AV	25.00	300	Vertical	Pass
5	7963.251	57.12	74.0	16.88	Peak	292.00	300	Vertical	Pass
5**	7963.251	44.67	54.0	9.33	AV	292.00	300	Vertical	Pass
6	8306.720	46.48	74.0	27.52	Peak	177.00	400	Vertical	Pass
6**	8306.720	38.26	54.0	15.74	AV	177.00	400	Vertical	Pass

MIDDLE CHANNEL 1 GHz to 10 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1332.614	40.03	74.0	33.97	Peak	143.00	300	Horizontal	Pass
1**	1332.614	32.79	54.0	21.21	AV	143.00	300	Horizontal	Pass
2	2369.706	47.99	74.0	26.01	Peak	259.00	200	Horizontal	Pass
2**	2369.706	39.41	54.0	14.59	AV	259.00	200	Horizontal	Pass
3	3914.909	49.08	74.0	24.92	Peak	118.00	200	Horizontal	Pass
3**	3914.909	40.37	54.0	13.63	AV	118.00	200	Horizontal	Pass
4	6126.897	51.84	74.0	22.16	Peak	95.00	200	Horizontal	Pass
4**	6126.897	43.13	54.0	10.87	AV	95.00	200	Horizontal	Pass
5	6974.841	52.38	74.0	21.62	Peak	68.00	300	Horizontal	Pass
5**	6974.841	44.99	54.0	9.01	AV	68.00	300	Horizontal	Pass
6	8598.322	45.03	74.0	28.97	Peak	90.00	100	Horizontal	Pass
6**	8598.322	38.74	54.0	15.26	AV	90.00	100	Horizontal	Pass

MIDDLE CHANNEL 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1471.429	45.88	74.0	28.12	Peak	108.00	100	Vertical	Pass
1**	1471.396	31.83	54.0	22.17	AV	108.00	100	Vertical	Pass
2	2991.855	50.70	74.0	23.30	Peak	112.00	100	Vertical	Pass
2**	2991.821	41.98	54.0	12.02	AV	112.00	100	Vertical	Pass
3	4924.895	52.45	74.0	21.55	Peak	169.00	200	Vertical	Pass
3**	4927.266	43.03	54.0	10.97	AV	169.00	200	Vertical	Pass
4	6149.830	52.92	74.0	21.08	Peak	322.00	400	Vertical	Pass
4**	6151.362	40.97	54.0	13.03	AV	322.00	400	Vertical	Pass
5	7967.131	57.06	74.0	16.94	Peak	98.00	300	Vertical	Pass
5**	7963.743	44.42	54.0	9.58	AV	98.00	300	Vertical	Pass
6	8309.072	46.34	74.0	27.66	Peak	80.00	200	Vertical	Pass
6**	8308.158	38.11	54.0	15.89	AV	80.00	200	Vertical	Pass

HIGH CHANNEL 1 GHz to 10 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1261.459	40.79	74.0	33.21	Peak	8.00	300	Horizontal	Pass
1**	1265.495	32.62	54.0	21.39	AV	8.00	300	Horizontal	Pass
2	2396.870	47.97	74.0	26.03	Peak	29.00	400	Horizontal	Pass
2**	2390.865	42.36	54.0	11.64	AV	29.00	400	Horizontal	Pass
3	4617.511	48.12	74.0	25.88	Peak	189.00	200	Horizontal	Pass
3**	4620.698	39.79	54.0	14.21	AV	189.00	200	Horizontal	Pass
4	6152.924	53.92	74.0	20.08	Peak	348.00	100	Horizontal	Pass
4**	6147.070	38.34	54.0	15.66	AV	348.00	100	Horizontal	Pass
5	8300.008	48.20	74.0	25.80	Peak	344.00	400	Horizontal	Pass
5**	8303.909	38.50	54.0	15.50	AV	344.00	400	Horizontal	Pass
6	9638.723	44.91	74.0	29.09	Peak	325.00	400	Horizontal	Pass
6**	9638.748	41.76	54.0	12.24	AV	325.00	400	Horizontal	Pass

HIGH CHANNEL 1 GHz to 10 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1466.739	46.01	74.0	27.99	Peak	42.00	100	Vertical	Pass
1**	1473.314	31.89	54.0	22.11	AV	42.00	100	Vertical	Pass
2	2993.151	50.78	74.0	23.23	Peak	124.00	100	Vertical	Pass
2**	2993.011	42.07	54.0	11.93	AV	124.00	100	Vertical	Pass
3	4922.249	52.30	74.0	21.70	Peak	222.00	200	Vertical	Pass
3**	4922.736	43.06	54.0	10.94	AV	222.00	200	Vertical	Pass
4	6148.695	52.77	74.0	21.23	Peak	152.00	400	Vertical	Pass
4**	6155.810	40.99	54.0	13.01	AV	152.00	400	Vertical	Pass
5	7964.953	57.10	74.0	16.90	Peak	341.00	400	Vertical	Pass
5**	7966.063	44.45	54.0	9.55	AV	341.00	400	Vertical	Pass
6	8308.778	46.28	74.0	27.72	Peak	4.00	400	Vertical	Pass
6**	8305.609	38.23	54.0	15.77	AV	4.00	400	Vertical	Pass

A.9 Band Edge (Restricted-band band-edge)

Note [1]: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note [2]: The test data all are tested in the vertical and horizontal antenna which the trace is max hold. So these plots have shown the worst case.

Note [3]: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note [4]: The Level (dBuV/m) has been corrected by factor.

Note [5]: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data

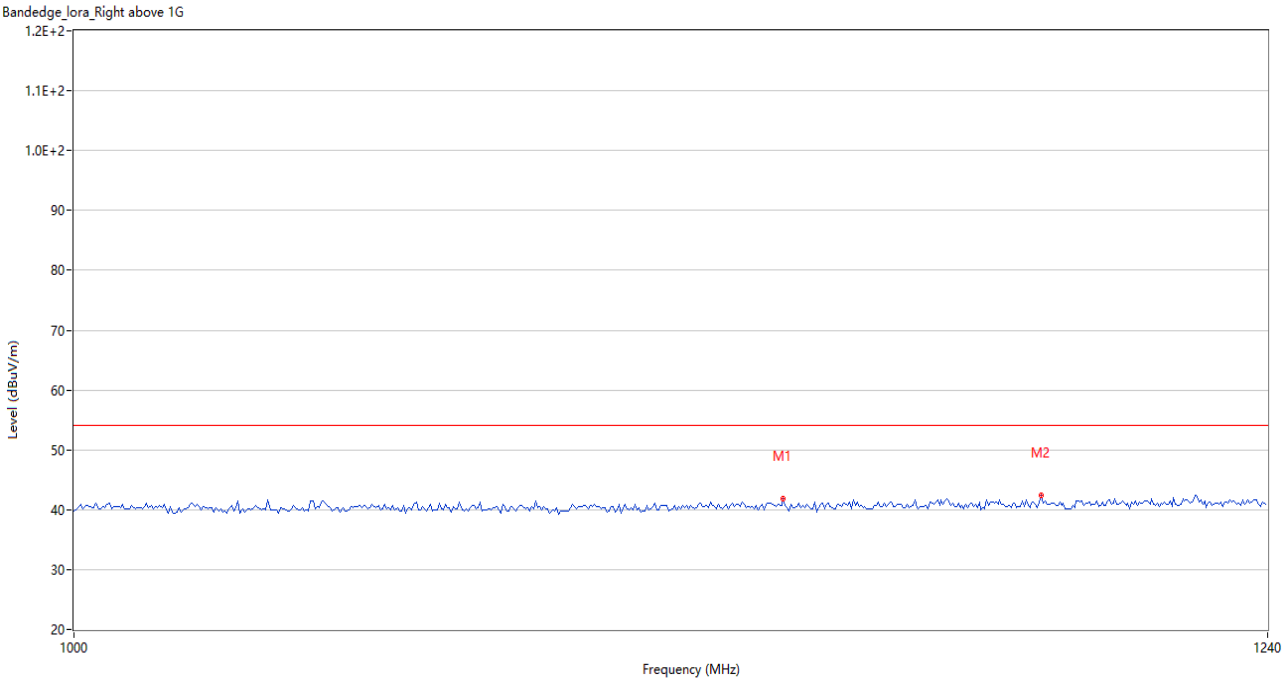
608 MHz to 614 MHz

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	608.394	40.78	54.0	13.22	Peak	134.00	300	Horizontal	Pass
2	610.367	40.34	54.0	13.66	Peak	166.00	300	Horizontal	Pass

960 MHz to 1 GHz

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	960.578	40.44	54.0	13.56	Peak	46.00	100	Horizontal	Pass
2	963.720	38.47	54.0	15.53	Peak	171.00	200	Horizontal	Pass

1 GHz to 1.24 GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1136.400	41.87	54.0	12.13	Peak	116.00	150	Horizontal	Pass
2	1190.400	42.40	54.0	11.60	Peak	239.00	150	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ25A1315-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ25A1315-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ25A1315-AI.PDF”.

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--END OF REPORT--