

TEST REPORT

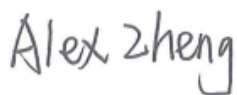
Applicant: Advanced Mobile Payment Inc.
Address: Units 401-403, 15 Wertheim Court, Richmond Hill,
Ontario L4B 3H7 CANADA
Equipment Type: AMP 6400 Smart Terminal
Model Name: P6400
Brand Name: 
FCC ID: 2AKJB-P6400
Test Standard: 47 CFR Part 15 Subpart C
(refer to section 3.1)
Sample Arrival Date: Jul. 02, 2025
Test Date: Jan. 09, 2026 - Jan. 13, 2026
Date of Issue: Jun. 02, 2026

ISSUED BY:

Shenzhen BALUN Technology Co., Ltd.

**Tested by:** Alex Zheng**Checked by:** Li Ganming**Approved by:** Tolan Tu

(Testing Director)



Revision History

Version	Issue Date	Revisions
<u>Rev. 01</u>	<u>Jun. 02, 2026</u>	<u>Initial Issue</u>

TABLE OF CONTENTS

1	GENERAL INFORMATION.....	4
1.1	Test Laboratory	4
1.2	Test Location	4
2	PRODUCT INFORMATION	5
2.1	Applicant Information	5
2.2	Manufacturer Information.....	5
2.3	General Description for Equipment under Test (EUT).....	5
2.4	Technical Information	6
3	SUMMARY OF TEST RESULTS	8
3.1	Test Standards	8
3.2	Test Verdict	9
4	GENERAL TEST CONFIGURATIONS	10
4.1	Test Environments.....	10
4.2	Test Equipment List.....	10
4.3	Test Software List.....	10
4.4	Measurement Uncertainty.....	11
4.5	Description of Test Setup	11
4.6	Measurement Results Explanation Example.....	14
5	TEST ITEMS	15
5.1	Antenna Requirements	15
5.2	Frequency Hopping Systems.....	16
5.3	Number of Hopping Frequencies	17
5.4	Peak Output Power	18
5.5	Occupied Bandwidth.....	19

5.6	Carrier Frequency Separation.....	20
5.7	Time of Occupancy (Dwell time)	21
5.8	Conducted Spurious Emission & Authorized-band band-edge.....	23
5.9	Conducted Emission.....	24
5.10	Radiated Spurious Emission	25
5.11	Band Edge (Restricted-band band-edge).....	27
ANNEX A	TEST RESULT	28
A.1	Number of Hopping Frequency	28
A.2	Peak Output Power	28
A.3	20 dB and 99% bandwidth	28
A.4	Hopping Frequency Separation	28
A.5	Average Time of Occupancy.....	28
A.6	Conducted Spurious Emissions & Authorized-band band-edge	28
A.7	Conducted Emissions	29
A.8	Radiated Spurious Emission	31
A.9	Band Edge (Restricted-band band-edge).....	40
ANNEX B	TEST SETUP PHOTOS	42
ANNEX C	EUT EXTERNAL PHOTOS.....	42
ANNEX D	EUT INTERNAL PHOTOS.....	42

1 GENERAL INFORMATION

1.1 Test Laboratory

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

1.2 Test Location

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

2 PRODUCT INFORMATION

2.1 Applicant Information

Applicant	Advanced Mobile Payment Inc.
Address	Units 401-403, 15 Wertheim Court, Richmond Hill, Ontario L4B 3H7 CANADA

2.2 Manufacturer Information

Manufacturer	Advanced Mobile Payment Inc.
Address	Units 401-403, 15 Wertheim Court, Richmond Hill, Ontario L4B 3H7 CANADA

2.3 General Description for Equipment under Test (EUT)

EUT Name	AMP 6400 Smart Terminal
Model Name Under Test	P6400
Series Model Name	N/A
Description of Model name differentiation	N/A
Hardware Version	N/A
Software Version	N/A
Dimensions (Approx.)	N/A
Weight (Approx.)	N/A

2.4 Technical Information

Network and Wireless connectivity	4G Network LTE FDD Band 2/4/5/7/12/13/14/17/25/26/66/71 LTE TDD Band 41 Bluetooth (BR+EDR+BLE) WIFI 802.11a, 802.11b, 802.11g, 802.11n and 802.11ac GPS, GLONASS, NFC
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The requirement for the following technical information of the EUT was tested in this report:

Modulation Technology	FHSS
Modulation Type	GFSK, $\pi/4$ -DQPSK, 8-DPSK
Product Type	☐ Mobile ☐ Portable ☒ Fix Location
Transfer Rate	DH5: 1 Mbps 2DH5: 2 Mbps 3DH5: 3 Mbps
Frequency Range	The frequency range used is 2400 MHz to 2483.5 MHz.
Number of Channel	79 (at intervals of 1 MHz)
Tested Channel	0 (2402 MHz), 39 (2441 MHz), 78 (2480 MHz)
Antenna Type	FPC Antenna
Antenna Gain	0.08 dBi
Antenna Impedance	50 Ω
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	2402	21	2423	42	2444	63	2465
1	2403	22	2424	43	2445	64	2466
2	2404	23	2425	44	2446	65	2467
3	2405	24	2426	45	2447	66	2468
4	2406	25	2427	46	2448	67	2469
5	2407	26	2428	47	2449	68	2470
6	2408	27	2429	48	2450	69	2471
7	2409	28	2430	49	2451	70	2472
8	2410	29	2431	50	2452	71	2473
9	2411	30	2432	51	2453	72	2474
10	2412	31	2433	52	2454	73	2475
11	2413	32	2434	53	2455	74	2476
12	2414	33	2435	54	2456	75	2477
13	2415	34	2436	55	2457	76	2478
14	2416	35	2437	56	2458	77	2479
15	2417	36	2438	57	2459	78	2480
16	2418	37	2439	58	2460	-	-
17	2419	38	2440	59	2461	-	-
18	2420	39	2441	60	2462	-	-
19	2421	40	2442	61	2463	-	-
20	2422	41	2443	62	2464	-	-

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	ANSI C63.10-2020	American National Standard for Procedures for Compliance Testing of Unlicensed Wireless Devices
3	KDB 558074 D01 15.247 Meas Guidance v05r02	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

3.2 Test Verdict

No.	Description	FCC Part No.	Channel	Test Result	Verdict	Remark
1	Antenna Requirement	15.203	N/A	--	--	Note ¹ , Note ³
2	Number of Hopping Frequencies	15.247(a)	Hopping Mode	ANNEX A.1	--	Note ² , Note ³
3	Peak Output Power	15.247(b)	Low/Middle/High	ANNEX A.2	--	Note ³
4	Occupied Bandwidth	15.247(a)	Low/Middle/High	ANNEX A.3	--	Note ³
5	Carrier Frequency Separation	15.247(a)	Hopping Mode	ANNEX A.4	--	Note ² , Note ³
6	Time of Occupancy (Dwell time)	15.247(a)	Hopping Mode	ANNEX A.5	--	Note ² , Note ³
7	Conducted Spurious Emission & Authorized-band band-edge	15.247(d)	Hopping Mode; Low/Middle/High	ANNEX A.6	--	Note ² , Note ³
8	Conducted Emission	15.207	Low/Middle/High	ANNEX A.7	Pass	Note ² , Note ³
9	Radiated Spurious Emission	15.209 15.247(d)	Low/Middle/High	ANNEX A.8	Pass	Note ² , Note ³
10	Band Edge(Restricted-band band-edge)	15.209 15.247(d)	Low/High	ANNEX A.9	Pass	Note ² , Note ³

Note¹: The EUT has a permanently and irreplaceable attached antenna, which complies with the requirement FCC 15.203.

Note²: $\pi/4$ -DQPSK is the EDR 2M rate mode, 8-DPSK is the EDR 3M rate mode. The consistency of test results in $\pi/4$ -DQPSK and 8-DPSK is very high. So we chose 8-DPSK as a typical representative to appear on the report. Another we will show all the modes on the RF output power test item.

Note³: The RF module (Model Name: SC200E-NA, SC206E-NA) installed in the EUT is electronically and mechanically identical to the original certified module in the test report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, The standard ANSI C63.10-2013 has been updated to ANSI C63.10-2020. The possible differences in the testing methods for the tested object are as follows:

(1) Conducted Emission has been re-tested in accordance with C63.10-2020.

(2) Radiated Spurious Emission & Band Edge (Restricted-band band-edge) has been re-tested in accordance with ANSI C63.10-2020.

Other test items please refer to the No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025.

4 GENERAL TEST CONFIGURATIONS

4.1 Test Environments

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

Relative Humidity	39% to 45%	
Atmospheric Pressure	100 kPa to 102 kPa	
Temperature	NT (Normal Temperature)	+20.4℃ to +23.4℃
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	ROHDE&SCHWARZ	FSV-40	101544	2025.10.30	2026.10.29
Spectrum Analyzer	KEYSIGHT	N9020A	MY56060127	2025.02.27	2026.02.26
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-Horn	A-INFO	LB-180400KF	J211060273	2024.06.15	2027.06.14
Anechoic Chamber	EMC Electronic Co, Ltd	9m*6m*6m	/	2024.05.15	2027.05.14
EMI Receiver	KEYSIGHT	N9038B	MY61380132	2025.04.01	2026.03.31
LISN	SCHWARZBECK	NSLK 8127	1009	2025.07.15	2026.07.14
LISN	SCHWARZBECK	NNBM8124	8124-510	2025.02.06	2026.02.05
LISN	SCHWARZBECK	NNBM8124	8124-509	2025.02.06	2026.02.05
Shielded Room	YiHeng Electronic Co., Ltd	/	235	2024.11.05	2027.11.04

4.3 Test Software List

Description	Manufacturer	Software Version	Serial No.	Applicable test Setup
BL410R	BALUN	V2.1.1.488	N/A	The section 4.5.1
BL410E	BALUN	V22.930	N/A	The section 4.5.2&4.5.3&4.5.4&4.5.5

4.4 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%

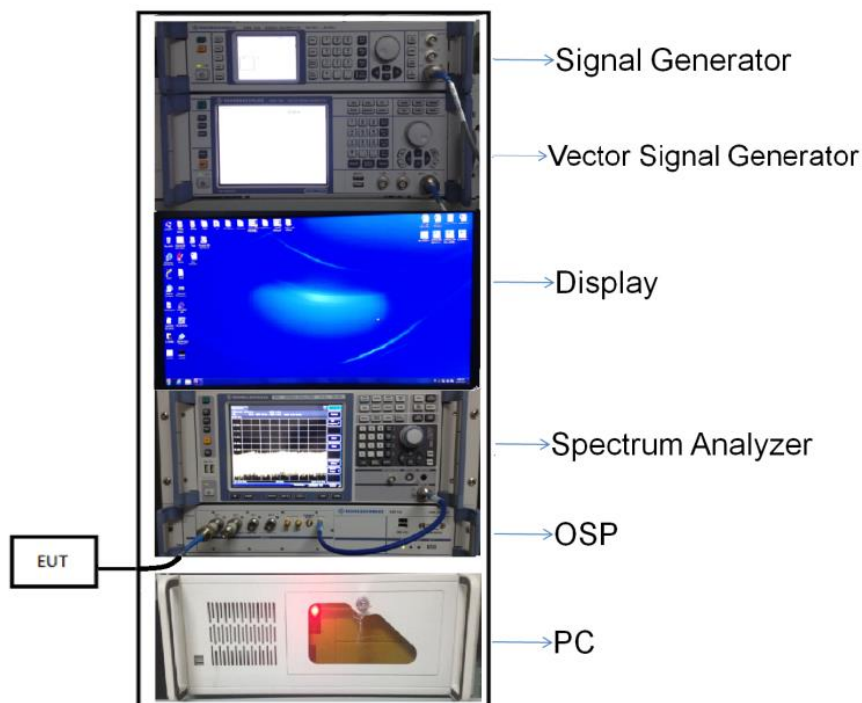
4.5 Description of Test Setup

4.5.1 For Antenna Port Test

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

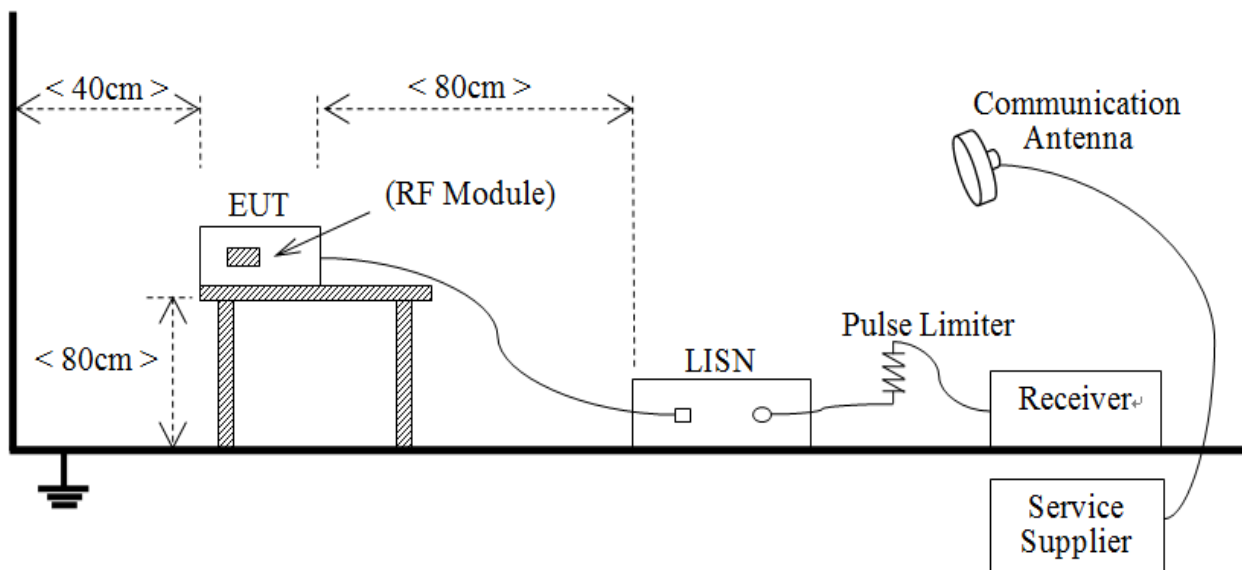
For example: the measurement value is 10 dBm and the cable 0.5dBm used, then the final result of EUT:

Conducted value (dBm) = 10 dBm + 0.5 dB = 10.5 dBm



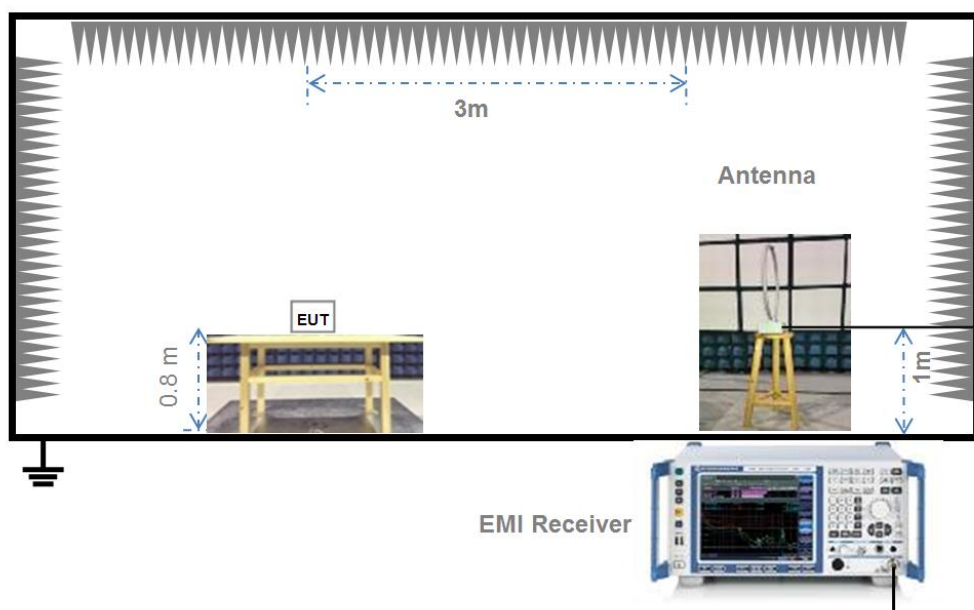
(Diagram 1)

4.5.2 For AC Power Supply Port Test



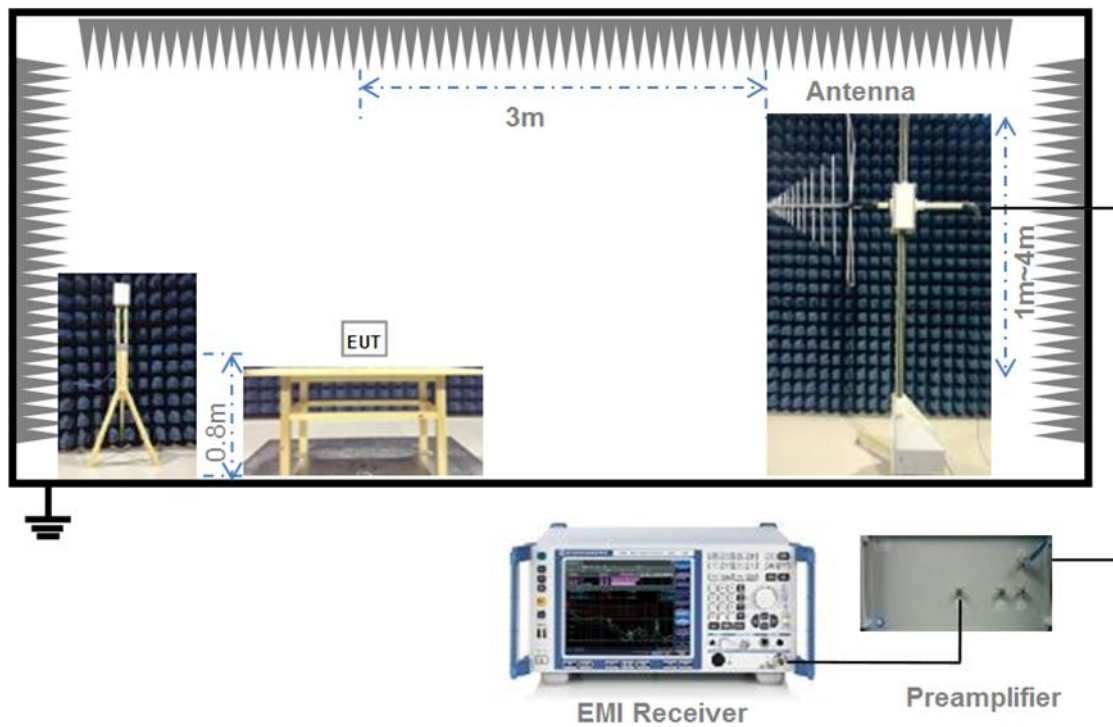
(Diagram 2)

4.5.3 For Radiated Test (Below 30 MHz)



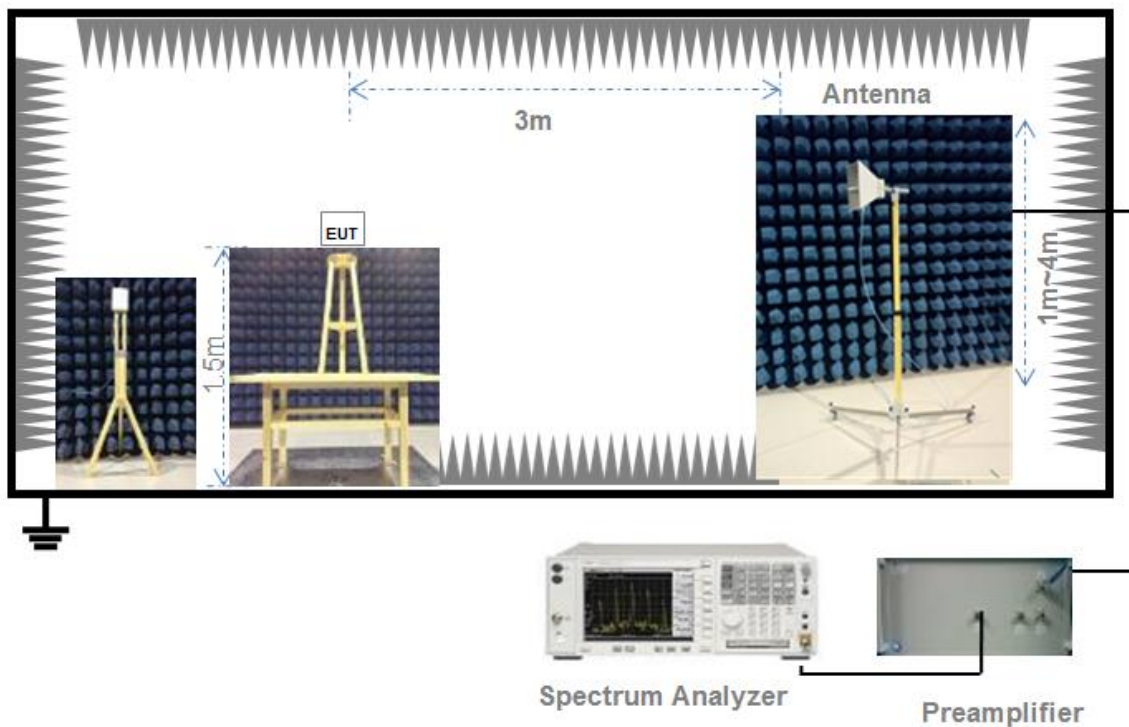
(Diagram 3)

4.5.4 For Radiated Test (30 MHz-1 GHz)



(Diagram 4)

4.5.5 For Radiated Test (Above 1 GHz)



(Diagram 5)

4.6 Measurement Results Explanation Example

4.6.1 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 & 15.247(b)

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.	An embedded-in antenna design is used.

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 Frequency Hopping Systems

5.2.1 Relevant Standards

FCC §15.247(a) (1) (i) (ii) (iii) (iv); FCC §15.247(g); FCC §15.247(h);

Describe how the hopping sequence is generated. Provide an example of the hopping sequence channels, to demonstrate that the sequence meets the requirement specified in the definition of an FHSS system. Per the definition in Section 2.1(c), the hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Describe how each individual EUT meets the requirement that each of its hopping channels is used equally on average (e.g., that each new transmission event begins on the next channel in the hopping sequence after the final channel used in the previous transmission event).

Describe how the associated receiver(s) complies with the requirement that the input bandwidth (either RF or IF) matches the bandwidth of the transmitted signal.

Describe how the associated receiver(s) has the ability to shift frequencies in synchronization with the transmitted signals.

For short burst systems, describe how the EUT complies with the requirement that it be designed to be capable of operating as a true frequency hopping system. Specifically, the device shall comply with the equal frequency use and pseudorandom hopping sequence requirement when transmitting in short bursts, and shall be designed to comply when presented with continuous data (or information) stream.

Describe how the EUT complies with the requirement that it not have the ability to be coordinated with other FHSS systems in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitters.

5.2.2 Description of the systems

1. According to the preset procedure of the whole network, all the stations in the automatic control network synchronously change the frequency multiple times within one second, and temporarily stay on each frequency hopping channel. Periodic synchronization signaling is sent from the primary station, instructing all slaves to simultaneously change the operating frequency, then the hopping sequence is generated.
2. The hop set shall appear as random in the near term, shall appear as evenly distributed in the long term, and sequential hops shall be randomly distributed in both direction and magnitude of change.

Reference Documents	
N/A	N/A

3. Channels are classified into two categories, used and unused, where used channels are part of the hopping sequence and unused channels are replaced in the hopping sequence by used channels in a pseudo-random way. Make each individual EUT meets the requirement that each of its hopping channels is used equally on average.
4. The input bandwidth and transmitted bandwidth are both 1MHz, the associated receiver(s) complies with the requirement that the input bandwidth matches the bandwidth of the transmitted signal.
5. Connected devices communicate on the same physical channel by synchronizing with a common clock and hopping sequence.
6. EUT isn't short burst systems.
7. EUT can't have the ability to be coordinated with other FHSS systems in an effort.

5.3 Number of Hopping Frequencies

5.3.1 Limit

FCC §15.247(a) (1) (iii)

Frequency hopping systems operating in the 2400 MHz to 2483.5 MHz bands shall use at least 15 hopping frequencies.

5.3.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.3.3 Test Procedure

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

Span = The frequency band of operation

RBW = To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.3.4 Test Result

Please refer to ANNEX A.1.

5.4 Peak Output Power

5.4.1 Test Limit

FCC § 15.247(b)

For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band: 0.125 watts.

5.4.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.4.3 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 $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize.

5.4.4 Test Result

Please refer to ANNEX A.2.

5.5 Occupied Bandwidth

5.5.1 Limit

FCC §15.247(a)

Measurement of the 20dB bandwidth of the modulated signal.

5.5.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.5.3 Test Procedure

Use the following spectrum analyzer settings:

Span = approximately 2 to 5 times the 20 dB bandwidth, centered on a hopping channel

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

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

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

5.5.4 Test Result

Please refer to ANNEX A.3.

5.6 Carrier Frequency Separation

5.6.1 Limit

FCC §15.247(a)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 2/3 of the 20 dB bandwidth of the hopping channel, whichever is greater.

5.6.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.6.3 Test Procedure

The 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) $\geq 1\%$ of the span

Video (or Average) Bandwidth (VBW) $\geq$ 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.

5.6.4 Test Result

Please refer to ANNEX A.4.

5.7 Time of Occupancy (Dwell time)

5.7.1 Limit

FCC §15.247(a)

Frequency hopping systems in the 2400 MHz - 2483.5 MHz band shall use at least 15 non-overlapping channels. The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. Frequency hopping systems may avoid or suppress transmissions on a particular hopping frequency provided that a minimum of 15 channels are used.

5.7.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.7.3 Test Procedure

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

Span: Zero span, centered on a hopping channel

RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel

Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel

Detector function: Peak

Trace: Max hold

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

The average time of occupancy on any channel within the Period can be calculated with formulas:

For GFSK and 8-DPSK:

For DH1 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH3 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For DH5 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (1600 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$$

For AFH Mode:

For DH1 package type

$$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 2) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$$

$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$

For DH3 package type

$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 4) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$

$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$

For DH5 package type

$\{\text{Total of Dwell}\} = \{\text{Pulse Time}\} * (800 / 6) / \{\text{Number of Hopping Frequency}\} * \{\text{Period}\}$

$\{\text{Period}\} = 0.4 \text{ s} * \{\text{Number of Hopping Frequency}\}$

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.

5.7.4 Test Result

Please refer to ANNEX A.5.

5.8 Conducted Spurious Emission & Authorized-band band-edge

5.8.1 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.

5.8.2 Test Setup

See section 4.5.1 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.8.3 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 = 300 kHz

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize

5.8.4 Test Result

Please refer to ANNEX A.6.

5.9 Conducted Emission

5.9.1 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

5.9.2 Test Setup

See section 4.5.2 for test setup description for the AC power supply port. The photo of test setup please refer to ANNEX B.

5.9.3 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.

5.9.4 Test Result

Please refer to ANNEX A.7.

5.10 Radiated Spurious Emission

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).

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

Note:

1. Field Strength ($\text{dB}\mu\text{V/m}$) = $20 \times \log[\text{Field Strength } (\mu\text{V/m})]$.
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).

5.10.2 Test Setup

See section 4.5.3 to 4.5.5 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ 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.8.

5.11 Band Edge (Restricted-band band-edge)

5.11.1 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).

5.11.2 Test Setup

See section 4.5.3 to 4.5.5 for test setup description for the antenna port. The photo of test setup please refer to ANNEX B.

5.11.3 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 $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW $\geq$ 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.

5.11.4 Test Result

Please refer to ANNEX A.9.

ANNEX A TEST RESULT

A.1 Number of Hopping Frequency

Note: The Number of Hopping Frequency please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.6 Number of Channel Measurement.**

A.2 Peak Output Power

Note: The Peak Output Power please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.1 Output Power Measurement.**

A.3 20 dB and 99% bandwidth

Note: The 20 dB and 99% bandwidth please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.2 20dB and 99% Bandwidth Measurement.**

A.4 Hopping Frequency Separation

Note: The Hopping Frequency Separation please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.5 Hopping Channel Separation Measurement.**

A.5 Average Time of Occupancy

Note: The Average Time of Occupancy please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.4 Dwell Time Measurement.**

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

Note: The Conducted Spurious Emissions & Authorized-band band-edge please refer to the Report No. PD20240152-R3B which issued by Hefei Panwin Technology Co., Ltd. on Feb. 07, 2025, **Section 4.3 Conducted Band Edges Measurement.**

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.

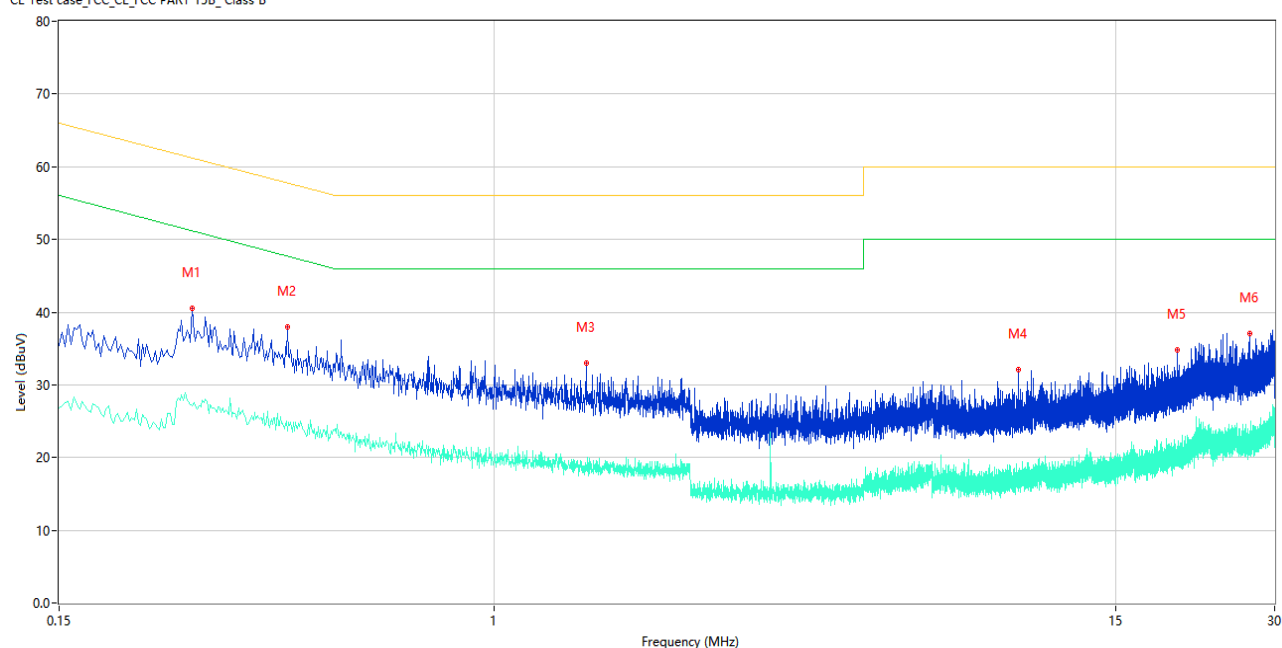
Note ²: Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 60 Hz and 240 VAC, 50 Hz) for which the device is capable of operation. So, The configuration 120 VAC, 60 Hz and 240 VAC, 50 Hz were tested respectively, but only the worst configuration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

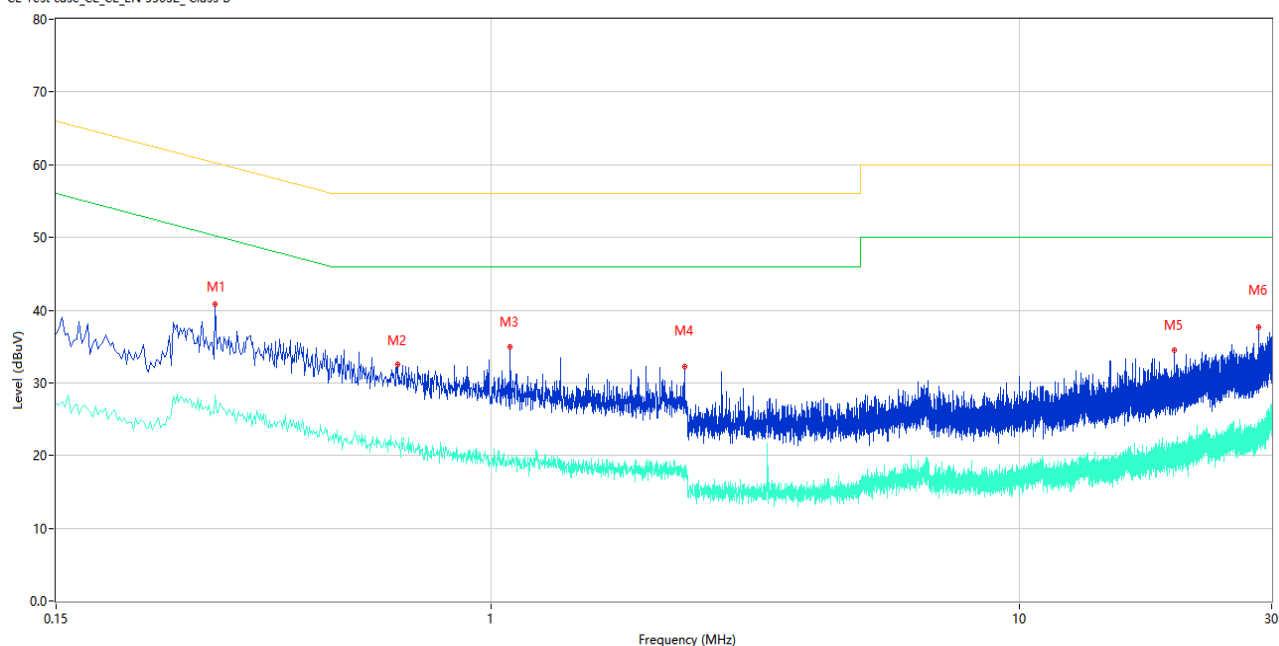
CE Test case_FCC_CE_FCC PART 15B_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.268	40.60	10.26	61.18	20.58	Peak	L	Pass
1**	0.268	27.05	10.26	51.18	24.13	AV	L	Pass
2	0.406	38.01	10.26	57.73	19.72	Peak	L	Pass
2**	0.406	23.66	10.26	47.73	24.07	AV	L	Pass
3	1.492	32.93	10.38	56.00	23.07	Peak	L	Pass
3**	1.492	18.23	10.38	46.00	27.77	AV	L	Pass
4	9.834	32.05	11.82	60.00	27.95	Peak	L	Pass
4**	9.834	17.09	11.82	50.00	32.91	AV	L	Pass
5	19.594	34.78	14.32	60.00	25.22	Peak	L	Pass
5**	19.594	21.03	14.32	50.00	28.97	AV	L	Pass
6	26.874	37.03	15.81	60.00	22.97	Peak	L	Pass
6**	26.874	23.02	15.81	50.00	26.98	AV	L	Pass

PHASE N

CE Test case_CE_EN 55032_Class B



No.	Frequency (MHz)	Results (dBuV)	Factor (dB)	Limit (dBuV)	Margin (dB)	Detector	Line	Verdict
1	0.300	40.85	10.18	60.24	19.39	Peak	N	Pass
1**	0.300	28.28	10.18	50.24	21.96	AV	N	Pass
2	0.666	32.53	10.21	56.00	23.47	Peak	N	Pass
2**	0.666	21.61	10.21	46.00	24.39	AV	N	Pass
3	1.086	34.96	10.24	56.00	21.04	Peak	N	Pass
3**	1.086	19.41	10.24	46.00	26.59	AV	N	Pass
4	2.320	32.30	10.38	56.00	23.70	Peak	N	Pass
4**	2.320	18.42	10.38	46.00	27.58	AV	N	Pass
5	19.598	34.54	14.36	60.00	25.46	Peak	N	Pass
5**	19.598	21.24	14.36	50.00	28.76	AV	N	Pass
6	28.316	37.67	16.13	60.00	22.33	Peak	N	Pass
6**	28.316	23.57	16.13	50.00	26.43	AV	N	Pass

A.8 Radiated Spurious Emission

Note¹: The symbol of “--” in the table which means not application.

Note²: 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.

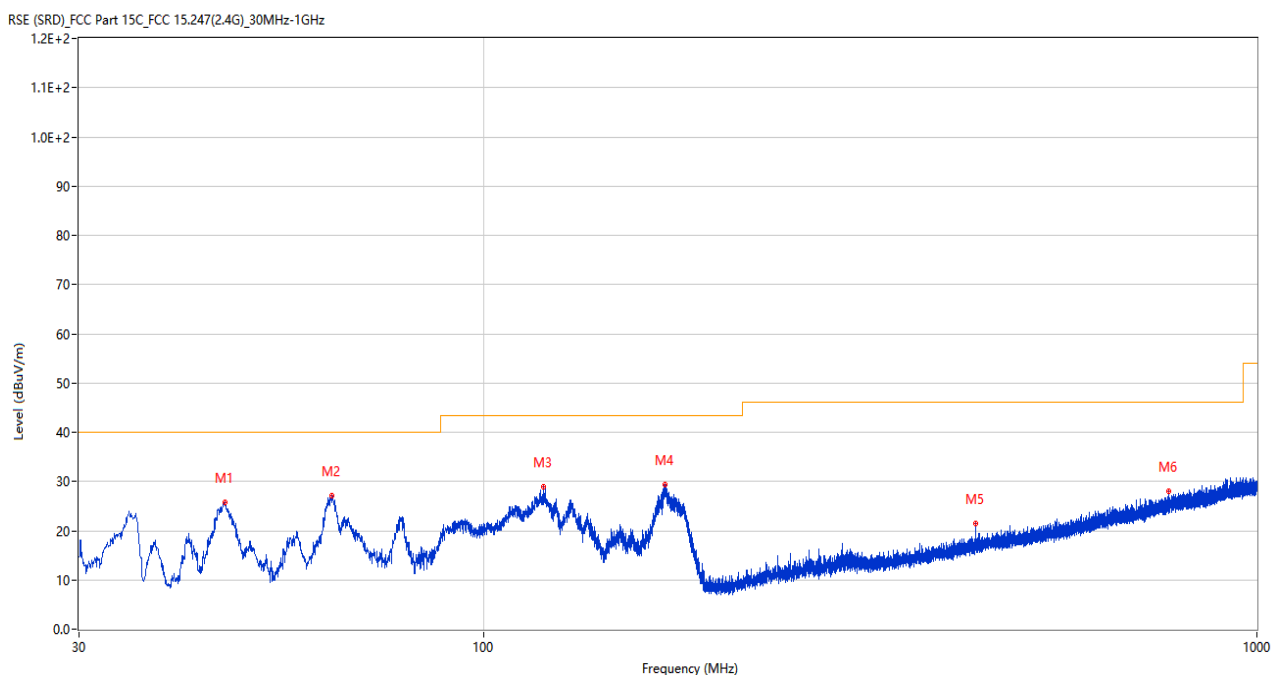
Note³: The EUT is working in the Normal link mode below 1 GHz. All modes have been tested and DH5-Hopping mode is the worst.

Note⁴: Results (dBuV/m) = Original reading level of Spectrum Analyzer (dBuV/m) + Factor (dB)

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

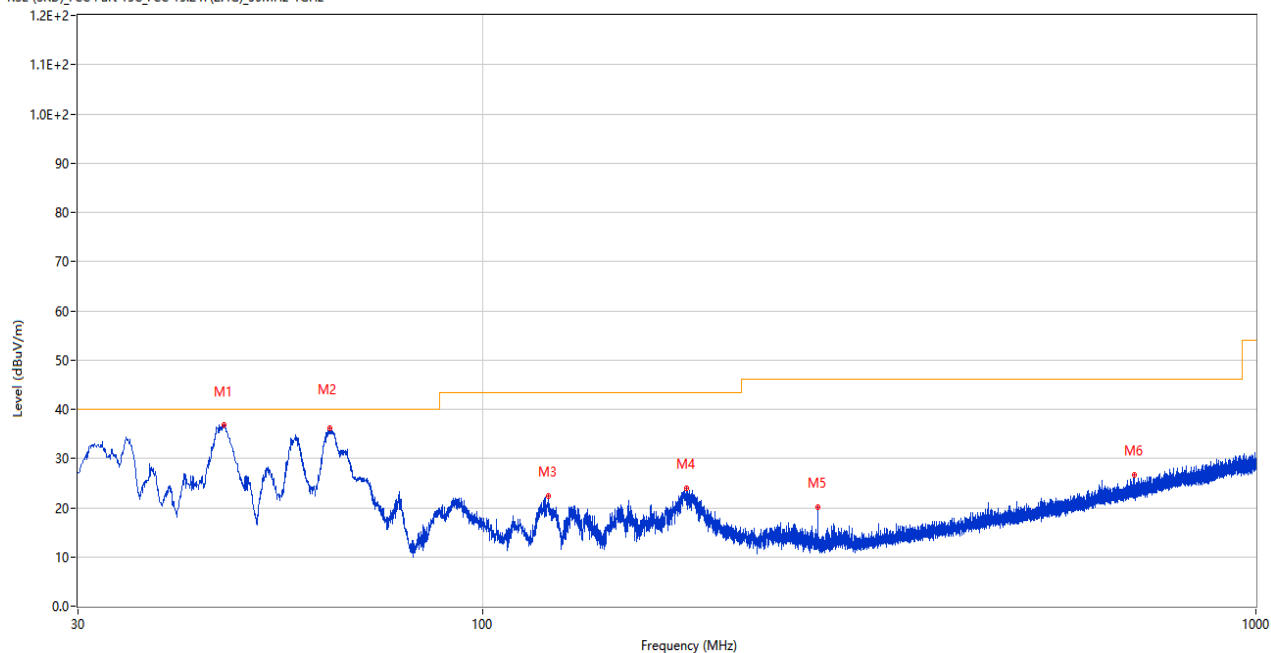
30 MHz to 1 GHz, ANT H



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.344	25.76	40.0	14.24	Peak	307.00	150	Horizontal	Pass
2	63.708	27.17	40.0	12.83	Peak	147.00	150	Horizontal	Pass
3	119.531	28.91	43.5	14.59	Peak	0.00	150	Horizontal	Pass
4	171.766	29.40	43.5	14.10	Peak	45.00	150	Horizontal	Pass
5	433.326	21.47	46.0	24.53	Peak	285.00	150	Horizontal	Pass
6	768.073	28.07	46.0	17.93	Peak	0.00	150	Horizontal	Pass

30 MHz to 1 GHz, ANT V

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_30MHz-1GHz



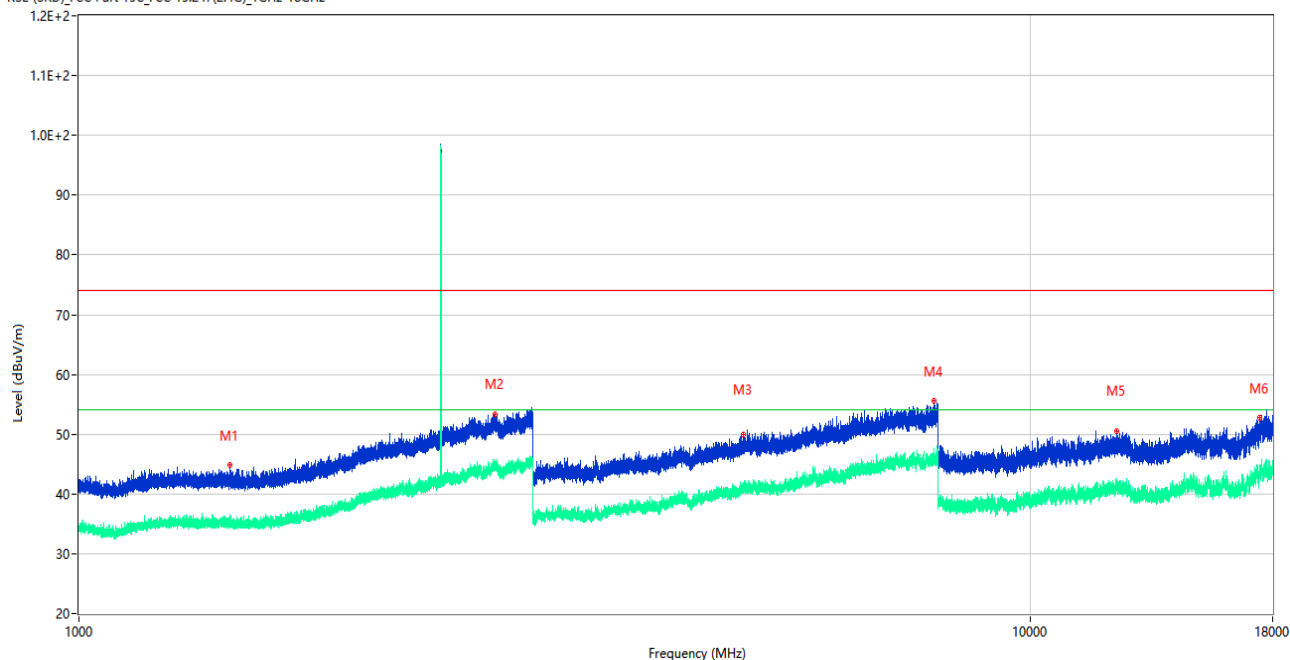
No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	46.393	36.80	40.0	3.20	Peak	219.00	150	Vertical	Pass
2	63.416	36.17	40.0	3.83	Peak	158.00	150	Vertical	Pass
3	121.859	22.45	43.5	21.05	Peak	248.00	150	Vertical	Pass
4	183.794	23.86	43.5	19.64	Peak	183.00	150	Vertical	Pass
5	271.190	20.19	46.0	25.81	Peak	114.00	150	Vertical	Pass
6	696.390	26.68	46.0	19.32	Peak	357.00	150	Vertical	Pass

Note¹: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

Note²: The spurious from 18GHz-25GHz is noise only, do not show on the report.

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

RSE (SRD)_FCC Part 15C_FCC 15.247(2.4G)_1GHz-18GHz



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1439.813	44.95	74.0	29.05	Peak	177.00	300	Horizontal	Pass
1**	1439.813	34.88	54.0	19.13	AV	177.00	300	Horizontal	Pass
2	2736.241	53.26	74.0	20.74	Peak	345.00	400	Horizontal	Pass
2**	2736.241	45.06	54.0	8.94	AV	345.00	400	Horizontal	Pass
3	4997.629	50.22	74.0	23.78	Peak	206.00	200	Horizontal	Pass
3**	4997.629	41.06	54.0	12.94	AV	206.00	200	Horizontal	Pass
4	7929.285	55.66	74.0	18.34	Peak	283.00	100	Horizontal	Pass
4**	7929.285	46.41	54.0	7.59	AV	283.00	100	Horizontal	Pass
5	12348.184	50.79	74.0	23.21	Peak	76.00	400	Horizontal	Pass
5**	12348.184	40.99	54.0	13.01	AV	76.00	400	Horizontal	Pass
6	17438.593	52.96	74.0	21.04	Peak	171.00	100	Horizontal	Pass
6**	17438.593	43.46	54.0	10.55	AV	171.00	100	Horizontal	Pass

GFSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1465.637	42.39	74.0	31.61	Peak	239.00	400	Vertical	Pass
1**	1465.637	32.54	54.0	21.46	AV	239.00	400	Vertical	Pass
2	2991.103	51.71	74.0	22.29	Peak	60.00	100	Vertical	Pass
2**	2991.103	40.37	54.0	13.63	AV	60.00	100	Vertical	Pass
3	6805.786	50.58	74.0	23.42	Peak	261.00	200	Vertical	Pass
3**	6805.786	44.58	54.0	9.42	AV	261.00	200	Vertical	Pass
4	7964.348	56.16	74.0	17.84	Peak	204.00	100	Vertical	Pass
4**	7964.348	45.39	54.0	8.61	AV	204.00	100	Vertical	Pass
5	12494.702	47.32	74.0	26.68	Peak	76.00	300	Vertical	Pass
5**	12494.702	38.34	54.0	15.66	AV	76.00	300	Vertical	Pass
6	17098.416	49.43	74.0	24.57	Peak	343.00	100	Vertical	Pass
6**	17098.416	43.01	54.0	10.99	AV	343.00	100	Vertical	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1438.824	44.37	74.0	29.63	Peak	79.00	200	Horizontal	Pass
1**	1438.824	34.66	54.0	19.35	AV	79.00	200	Horizontal	Pass
2	2739.512	52.98	74.0	21.02	Peak	344.00	400	Horizontal	Pass
2**	2739.512	44.36	54.0	9.64	AV	344.00	400	Horizontal	Pass
3	4995.642	49.43	74.0	24.57	Peak	87.00	200	Horizontal	Pass
3**	4995.642	40.73	54.0	13.27	AV	87.00	200	Horizontal	Pass
4	7930.898	55.36	74.0	18.64	Peak	89.00	300	Horizontal	Pass
4**	7930.898	45.62	54.0	8.38	AV	89.00	300	Horizontal	Pass
5	12349.160	50.60	74.0	23.40	Peak	116.00	300	Horizontal	Pass
5**	12349.160	40.94	54.0	13.06	AV	116.00	300	Horizontal	Pass
6	17432.092	52.29	74.0	21.71	Peak	204.00	100	Horizontal	Pass
6**	17432.092	43.40	54.0	10.61	AV	204.00	100	Horizontal	Pass

GFSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1465.108	41.71	74.0	32.29	Peak	194.00	200	Vertical	Pass
1**	1465.108	31.65	54.0	22.35	AV	194.00	200	Vertical	Pass
2	2990.655	51.34	74.0	22.66	Peak	103.00	400	Vertical	Pass
2**	2990.655	40.10	54.0	13.90	AV	103.00	400	Vertical	Pass
3	6801.269	49.98	74.0	24.02	Peak	126.00	200	Vertical	Pass
3**	6801.269	43.74	54.0	10.26	AV	126.00	200	Vertical	Pass
4	7967.946	55.48	74.0	18.52	Peak	162.00	200	Vertical	Pass
4**	7967.946	44.84	54.0	9.16	AV	162.00	200	Vertical	Pass
5	12496.940	46.37	74.0	27.63	Peak	310.00	100	Vertical	Pass
5**	12496.940	37.45	54.0	16.55	AV	310.00	100	Vertical	Pass
6	17098.647	48.76	74.0	25.24	Peak	106.00	300	Vertical	Pass
6**	17098.647	42.55	54.0	11.45	AV	106.00	300	Vertical	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1444.288	44.01	74.0	29.99	Peak	246.00	300	Horizontal	Pass
1**	1444.288	33.94	54.0	20.07	AV	246.00	300	Horizontal	Pass
2	2736.929	52.89	74.0	21.11	Peak	26.00	300	Horizontal	Pass
2**	2736.929	44.32	54.0	9.68	AV	26.00	300	Horizontal	Pass
3	4998.620	49.80	74.0	24.20	Peak	318.00	200	Horizontal	Pass
3**	4998.620	40.31	54.0	13.69	AV	318.00	200	Horizontal	Pass
4	7925.037	55.24	74.0	18.76	Peak	57.00	400	Horizontal	Pass
4**	7925.037	45.64	54.0	8.36	AV	57.00	400	Horizontal	Pass
5	12345.858	50.53	74.0	23.47	Peak	148.00	300	Horizontal	Pass
5**	12345.858	40.58	54.0	13.42	AV	148.00	300	Horizontal	Pass
6	17433.764	52.73	74.0	21.27	Peak	82.00	400	Horizontal	Pass
6**	17433.764	43.37	54.0	10.64	AV	82.00	400	Horizontal	Pass

GFSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1464.441	41.94	74.0	32.06	Peak	106.00	400	Vertical	Pass
1**	1464.441	32.03	54.0	21.97	AV	106.00	400	Vertical	Pass
2	2993.105	50.81	74.0	23.19	Peak	247.00	300	Vertical	Pass
2**	2993.105	39.43	54.0	14.57	AV	247.00	300	Vertical	Pass
3	6805.535	50.21	74.0	23.79	Peak	349.00	200	Vertical	Pass
3**	6805.535	44.48	54.0	9.52	AV	349.00	200	Vertical	Pass
4	7970.327	55.85	74.0	18.15	Peak	199.00	100	Vertical	Pass
4**	7970.327	44.46	54.0	9.54	AV	199.00	100	Vertical	Pass
5	12495.970	47.10	74.0	26.90	Peak	292.00	400	Vertical	Pass
5**	12495.970	38.26	54.0	15.74	AV	292.00	400	Vertical	Pass
6	17096.155	48.80	74.0	25.20	Peak	236.00	300	Vertical	Pass
6**	17096.155	42.24	54.0	11.76	AV	236.00	300	Vertical	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1288.580	44.34	74.0	29.66	Peak	131.00	100	Horizontal	Pass
1**	1288.580	34.18	54.0	19.83	AV	131.00	100	Horizontal	Pass
2	2771.347	53.14	74.0	20.86	Peak	68.00	400	Horizontal	Pass
2**	2771.347	44.48	54.0	9.52	AV	68.00	400	Horizontal	Pass
3	5167.283	49.26	74.0	24.74	Peak	162.00	200	Horizontal	Pass
3**	5167.283	40.67	54.0	13.33	AV	162.00	200	Horizontal	Pass
4	6806.365	54.80	74.0	19.20	Peak	183.00	100	Horizontal	Pass
4**	6806.365	45.74	54.0	8.26	AV	183.00	100	Horizontal	Pass
5	13463.867	49.90	74.0	24.10	Peak	352.00	100	Horizontal	Pass
5**	13463.867	40.08	54.0	13.92	AV	352.00	100	Horizontal	Pass
6	17464.238	52.25	74.0	21.75	Peak	280.00	300	Horizontal	Pass
6**	17464.238	43.30	54.0	10.71	AV	280.00	300	Horizontal	Pass

8-DPSK LOW CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.708	42.09	74.0	31.91	Peak	186.00	300	Vertical	Pass
1**	1284.708	32.50	54.0	21.50	AV	186.00	300	Vertical	Pass
2	2771.722	50.87	74.0	23.13	Peak	145.00	400	Vertical	Pass
2**	2771.722	39.80	54.0	14.20	AV	145.00	400	Vertical	Pass
3	5162.412	49.66	74.0	24.34	Peak	267.00	200	Vertical	Pass
3**	5162.412	44.30	54.0	9.70	AV	267.00	200	Vertical	Pass
4	6805.409	56.15	74.0	17.85	Peak	345.00	100	Vertical	Pass
4**	6805.409	44.79	54.0	9.21	AV	345.00	100	Vertical	Pass
5	13465.842	47.18	74.0	26.82	Peak	290.00	200	Vertical	Pass
5**	13465.842	37.74	54.0	16.26	AV	290.00	200	Vertical	Pass
6	17460.595	48.89	74.0	25.11	Peak	14.00	200	Vertical	Pass
6**	17460.595	42.10	54.0	11.90	AV	14.00	200	Vertical	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.244	43.72	74.0	30.28	Peak	13.00	300	Horizontal	Pass
1**	1284.244	34.10	54.0	19.91	AV	13.00	300	Horizontal	Pass
2	2770.862	52.54	74.0	21.46	Peak	232.00	400	Horizontal	Pass
2**	2770.862	44.26	54.0	9.74	AV	232.00	400	Horizontal	Pass
3	5169.995	49.29	74.0	24.71	Peak	235.00	200	Horizontal	Pass
3**	5169.995	40.06	54.0	13.94	AV	235.00	200	Horizontal	Pass
4	6803.115	54.60	74.0	19.40	Peak	1.00	300	Horizontal	Pass
4**	6803.115	44.86	54.0	9.14	AV	1.00	300	Horizontal	Pass
5	13464.823	50.03	74.0	23.97	Peak	29.00	300	Horizontal	Pass
5**	13464.823	40.09	54.0	13.91	AV	29.00	300	Horizontal	Pass
6	17467.199	51.53	74.0	22.47	Peak	353.00	100	Horizontal	Pass
6**	17467.199	43.07	54.0	10.94	AV	353.00	100	Horizontal	Pass

8-DPSK MIDDLE CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1285.241	41.43	74.0	32.57	Peak	311.00	200	Vertical	Pass
1**	1285.241	30.99	54.0	23.01	AV	311.00	200	Vertical	Pass
2	2768.191	50.62	74.0	23.38	Peak	235.00	100	Vertical	Pass
2**	2768.191	39.15	54.0	14.85	AV	235.00	100	Vertical	Pass
3	5167.818	49.87	74.0	24.13	Peak	350.00	200	Vertical	Pass
3**	5167.818	42.88	54.0	11.12	AV	350.00	200	Vertical	Pass
4	6802.275	55.03	74.0	18.97	Peak	38.00	200	Vertical	Pass
4**	6802.275	44.29	54.0	9.71	AV	38.00	200	Vertical	Pass
5	13465.585	45.62	74.0	28.38	Peak	127.00	400	Vertical	Pass
5**	13465.585	36.89	54.0	17.11	AV	127.00	400	Vertical	Pass
6	17466.914	48.28	74.0	25.72	Peak	108.00	200	Vertical	Pass
6**	17466.914	42.21	54.0	11.79	AV	108.00	200	Vertical	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT H

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1284.767	43.98	74.0	30.02	Peak	144.00	300	Horizontal	Pass
1**	1284.767	33.29	54.0	20.72	AV	144.00	300	Horizontal	Pass
2	2770.441	52.80	74.0	21.20	Peak	315.00	200	Horizontal	Pass
2**	2770.441	43.62	54.0	10.38	AV	315.00	200	Horizontal	Pass
3	5163.854	48.82	74.0	25.18	Peak	41.00	200	Horizontal	Pass
3**	5163.854	39.62	54.0	14.38	AV	41.00	200	Horizontal	Pass
4	6804.962	54.61	74.0	19.39	Peak	292.00	300	Horizontal	Pass
4**	6804.962	45.26	54.0	8.74	AV	292.00	300	Horizontal	Pass
5	13470.698	50.25	74.0	23.75	Peak	354.00	400	Horizontal	Pass
5**	13470.698	40.41	54.0	13.59	AV	354.00	400	Horizontal	Pass
6	17467.922	51.99	74.0	22.01	Peak	161.00	200	Horizontal	Pass
6**	17467.922	43.11	54.0	10.90	AV	161.00	200	Horizontal	Pass

8-DPSK HIGH CHANNEL 1 GHz to 18 GHz, ANT V

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	1286.612	41.47	74.0	32.53	Peak	199.00	300	Vertical	Pass
1**	1286.612	31.50	54.0	22.50	AV	199.00	300	Vertical	Pass
2	2771.503	50.33	74.0	23.67	Peak	342.00	300	Vertical	Pass
2**	2771.503	39.01	54.0	14.99	AV	342.00	300	Vertical	Pass
3	5167.710	49.83	74.0	24.17	Peak	313.00	200	Vertical	Pass
3**	5167.710	44.40	54.0	9.60	AV	313.00	200	Vertical	Pass
4	6808.215	55.68	74.0	18.32	Peak	293.00	400	Vertical	Pass
4**	6808.215	44.03	54.0	9.97	AV	293.00	400	Vertical	Pass
5	13469.871	46.24	74.0	27.76	Peak	255.00	300	Vertical	Pass
5**	13469.871	37.52	54.0	16.48	AV	255.00	300	Vertical	Pass
6	17464.629	48.68	74.0	25.32	Peak	331.00	300	Vertical	Pass
6**	17464.629	42.17	54.0	11.83	AV	331.00	300	Vertical	Pass

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

Note¹: The lowest and highest channels are tested to verify the band edge emissions. Please refer to the following the plots for emissions values.

Note²: 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.

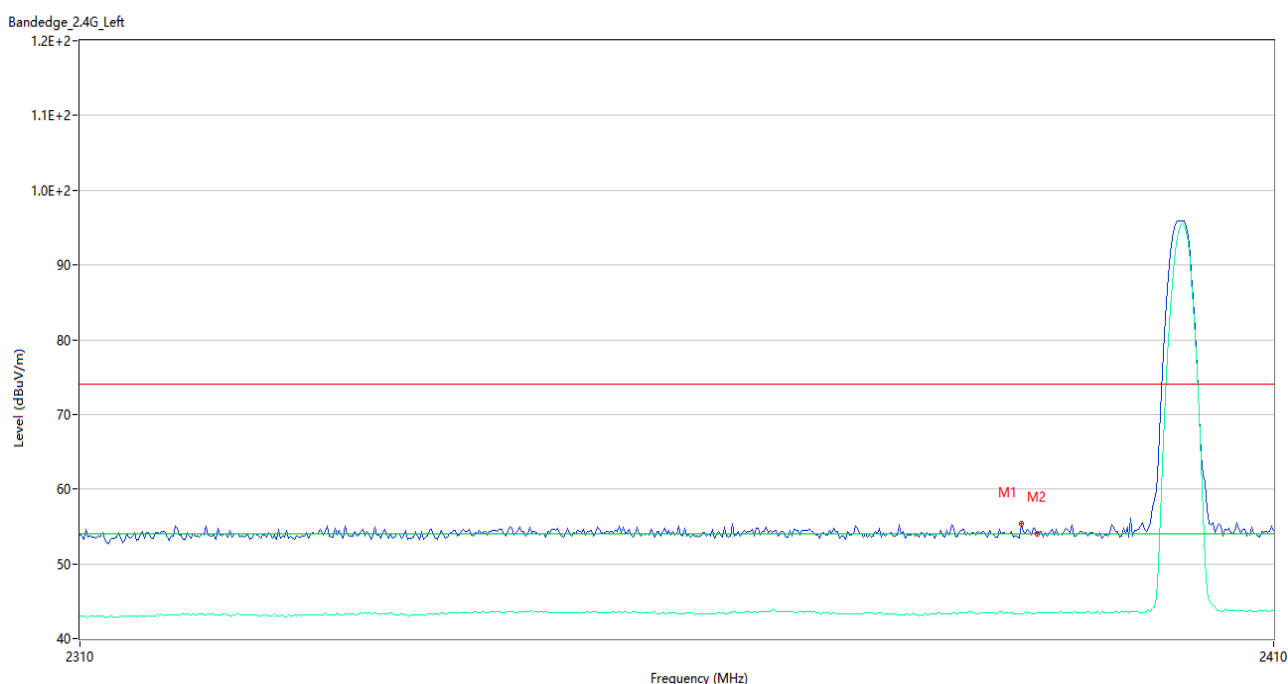
Note³: According the ANSI C63.10-2020, where limits are specified for both average and peak (or quasi-peak) detector functions, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement.

Note⁴: The Level (dBuV/m) has been corrected by factor.

Note⁵: Both horizontal and vertical directions were pre tested, only the worst configuration has been reported in this report.

Test Data and Plots

GFSK LOW CHANNEL



No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2386.218	55.67	74.0	18.33	Peak	53.00	100	Horizontal	Pass
1**	2386.218	43.57	54.0	10.43	AV	53.00	100	Horizontal	Pass
2	2390.000	54.27	74.0	19.73	Peak	16.00	100	Horizontal	Pass
2**	2390.000	43.69	54.0	10.31	AV	16.00	100	Horizontal	Pass

GFSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.27	74.0	19.74	Peak	161.00	200	Horizontal	Pass
1**	2483.500	43.35	54.0	10.65	AV	161.00	200	Horizontal	Pass
2	2500.558	55.52	74.0	18.48	Peak	21.00	300	Horizontal	Pass
2**	2500.558	43.49	54.0	10.51	AV	21.00	300	Horizontal	Pass

8-DPSK LOW CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2327.681	55.54	74.0	18.47	Peak	20.00	100	Horizontal	Pass
1**	2327.681	43.61	54.0	10.39	AV	20.00	100	Horizontal	Pass
2	2390.000	54.10	74.0	19.90	Peak	127.00	200	Horizontal	Pass
2**	2390.000	43.14	54.0	10.87	AV	127.00	200	Horizontal	Pass

8-DPSK HIGH CHANNEL

No.	Frequency (MHz)	Results (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Table (Degree)	Height (cm)	Antenna	Verdict
1	2483.500	54.52	74.0	19.48	Peak	232.00	100	Horizontal	Pass
1**	2483.500	43.33	54.0	10.67	AV	232.00	100	Horizontal	Pass
2	2490.325	55.75	74.0	18.25	Peak	326.00	100	Horizontal	Pass
2**	2490.325	43.67	54.0	10.33	AV	326.00	100	Horizontal	Pass

ANNEX B TEST SETUP PHOTOS

Please refer the document “BL-SZ2610097-AR.PDF”.

ANNEX C EUT EXTERNAL PHOTOS

Please refer the document “BL-SZ2610097-AW.PDF”.

ANNEX D EUT INTERNAL PHOTOS

Please refer the document “BL-SZ2610097-AI.PDF”.

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--END OF REPORT--