

TEST REPORT

Product Name : Radio control Receiver
Model Number : S4RX
FCC ID : 2BQ4A-S4RX

Prepared for : Ningbo JingRun Control Technology Co., Ltd.
Address : Room 202, 2nd Floor, Building K3, Jiale Industrial Park,
Haishu District, Ningbo, Zhejiang, China

Prepared by : EMTEK (NINGBO) CO., LTD.
Address : No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech
Zone, Ningbo, Zhejiang, China

Tel: +86-574-27907998
Fax: +86-574-27721538

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1 TEST RESULT CERTIFICATION

Applicant	:	Ningbo JingRun Control Technology Co., Ltd.
Address	:	Room 202, 2nd Floor, Building K3, Jiale Industrial Park, Haishu District, Ningbo, Zhejiang, China
Manufacturer	:	Ningbo JingRun Control Technology Co., Ltd.
Address	:	Room 202, 2nd Floor, Building K3, Jiale Industrial Park, Haishu District, Ningbo, Zhejiang, China
Trade Mark	:	N/A
EUT	:	Radio control Receiver
Model No.	:	S4RX

Measurement Procedure Used:

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR Part 2, Subpart J FCC 47 CFR Part 15, Subpart C	PASS

The above equipment was tested by EMTEK(NINGBO) CO., LTD. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10 (2020) and the energy emitted by the sample EUT tested as described in this report is in compliance with the requirements of FCC Rules Part 2, Part 15.247, IC RSS-247 Issue 4 and IC RSS-GEN, Issue 5.

The test results of this report relate only to the tested sample identified in this report

Date of Test :	June 06, 2026 to July 02, 2026
Prepared by :	 WK Luo / Engineer
Reviewer :	 Monsieur Li / Supervisor
Approved & Authorized Signer :	 Tony Wei / Manager

Modified History

Version	Report No.	Revision Date	Summary
/	ENB2606050049W00601R	/	Original Report



2 EUT TECHNICAL DESCRIPTION

Characteristics	Description
Product:	Radio control Receiver
Model Number:	S4RX
Test Sample S/N:	N/A
Variant Number:	N/A
Device Type:	2.4G SRD
Modulation:	GFSK
Operating Frequency Range(s) :	2403-2480MHz
Number of Channels:	78 Channels
Antenna Type	Coaxial Antenna
Antenna Gain:	1.89 dBi
Test Voltage:	DC 6.5V
Temperature Range:	0° C ~ +60° C
Software Version:	V1.3
Hardware Version:	V1.6

Note: for more details, please refer to the User's manual of the EUT.

3 SUMMARY OF TEST RESULT

FCC Part Clause	Test Parameter	Verdict	Remark
15.247(a)(1)	Emission Bandwidth	PASS	
15.247(a)(1)	Carrier Frequency Separation	PASS	
15.247(a)(1)	Number of Hopping Frequencies	PASS	
15.247(a)(1)	Average Time of Occupancy (Dwell Time)	PASS	
15.247(b)(1)	Maximum Peak Conducted Output Power	PASS	
15.247(d)	Conducted Spurious Emissions	PASS	
15.247(d) 15.209 15.205	Radiated Spurious Emissions	PASS	
15.207	Conducted Emission	N/A	
15.203 15.247(b)	Antenna Application	PASS	
15.247 (a) (1)/g/h	Frequency Hopping System	PASS	
NOTE1: N/A (Not Applicable) NOTE2: According to ANSI C63.10-2020, the report use radiated measurements in the restricted frequency bands. In addition, the radiated test is also performed to ensure the emissions emanating from the device cabinet also comply with the applicable limits.			

RELATED SUBMITTAL(S) / GRANT(S):

This submittal(s) (test report) is intended for **FCC ID:2BQ4A-S4RX** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

4 TEST METHODOLOGY

4.1 GENERAL DESCRIPTION OF APPLIED STANDARDS

According to its specifications, the EUT must comply with the requirements of the following standards:

FCC 47 CFR Part 2, Subpart J

FCC 47 CFR Part 15, Subpart C

IC RSS-GEN, Issue 5(04-2018)+A1(03-2019)+A2(02-2021)

IC RSS-247 Issue 4(07-2025)

FCC KDB 558074 D01 15.247 Meas Guidance v05r02

4.2 MEASUREMENT EQUIPMENT USED

Conducted Emission Test Equipment

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-001	EMI Test Receiver	R & S	ESCI	101108	Oct. 24, 2025	1 Year
ENE-336	L.I.S.N	Schwarzbeck	NSLK 8126	8126-05059	June 03, 2026	1 Year
ENE-159	Pulse Limiter	Schwarzbeck	VTSD 9561F-N	2611115-001-0033	Oct. 23, 2025	1 Year
ENE-278	RF Switching Unit	HTEC	HRSU	222101	June 03, 2026	1 Year
ENE-149	Conduction Test Room 1#	SKET	11.5*5*4m	/	March 05, 2025	3 Year

For Spurious Emissions Test

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-185	EMI Test Receiver	R&S	ESR7	102480	March 02, 2026	1 Year
ENE-190	Antenna Multiple	Schwarzbeck	VULB 9163	01499	March 09, 2025	3 Year
ENE-195	Pre-Amplifier	JS Denki	PA09K03-40	JSPA21019	March 02, 2026	1 Year
ENE-204	Low Frequency Notch Filter RF Switching	JS Denki	JSDSW-F	JSDSW2211 D02	March 02, 2026	1 Year
ENE-251	6dB Attenuator	Mini-Circuits	UNAT-6+	11542	June 03, 2026	1 Year
ENE-144	3-Meter Anechoic Chamber2#	SKET	9*6*6m	/	June 21, 2025	3 Year
ENE-171	EXA Signal Analyzer	KEYSIGHT	N9010B	MY60242467	Oct. 24, 2025	1 Year
ENE-191	Horn Antenna	Schwarzbeck	BBHA 9120 D	02588	March 09, 2025	3 Year
ENE-198	Pre-Amplifier	JS Denki	PA0118-50	JSPA21022	March 02, 2026	1 Year
ENE-206	High Frequency Notch FilterRf Switching	JS Denki	JSDSW-F	202083582	March 02, 2026	1 Year

For other test items:

Equ. No.	Equipment	Manufacturer	Model No.	Serial No.	Last Cal.	Cal. Interval
ENE-253	EXG Analog Singnal Generator	Keysight	N5173B	MY61253062	June 03, 2025	1 Year
ENE-254	MXG Vector Singnal Generator	Keysight	N5182B	MY61350131	June 03, 2025	1 Year
ENE-255	Frepuecy Extender	Keysight	N5183BX07	MY61500104	June 03, 2025	1 Year
ENE-256	EXA Signal Anaalyzer	Keysight	N9010B	MY62060219	June 03, 2025	1 Year
ENE-257	WIRELESS CONNECTIVITY TESTER	ROHDE & SCHWARZ	CMW 270	1201.0002K75-102608-Pb	June 03, 2025	1 Year
ENE-172	RF Control Unit	Tonscend	JS0806-2(V.6E)	21L8060521	March 02, 2026	1 Year
ENE-092	DC Power Supply	KEFUNA	KDP3603	2004D3062946	June 03, 2025	1 Year
ENE-093	Attenuator 10dB	talent Microwave	TA10A2-S-18	N/A	June 03, 2025	1 Year
ENE-094	Attenuator 20dB	talent Microwave	TA20A2-S-18	N/A	June 03, 2025	1 Year

4.3 DESCRIPTION OF TEST MODES

The EUT has been tested under its typical operating condition.

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

The Transmitter was operated in the normal operating mode. The TX frequency was fixed which was for the purpose of the measurements.

Test of channel included the lowest and middle and highest frequency to perform the test, then record on this report.

Pre-defined engineering program for regulatory testing used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

Frequency and Channel list for 2.4G Hopping

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	39	2441	...	...
2	2404	40	2442	76	2478
3	2405	41	2443	77	2479
...	...	...	...	78	2480

Note: $f_c = 2403\text{MHz} + (k-1) \times 1\text{MHz}$ $k=1$ to 78

Test Frequency and channel for 2.4G Hopping

Lowest Frequency		Middle Frequency		Highest Frequency	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2403	38	2440	78	2480

5 FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at:

EMTEK (NINGBO) CO., LTD.

No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech Zone, Ningbo, Zhejiang, China

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with preselectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.

All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTINGS

Site Description

EMC Lab.

: **Accredited by CNAS**

The Certificate Registration Number is L6666.

The Laboratory has been assessed and proved to be in compliance with CNAS-CL01:2018 (identical to ISO/IEC 17025:2017)

Designation by FCC

Designation Number: CN1354

Test Firm Registration Number: 427606

Accredited by A2LA

The Certificate Number is 4321.03.

Accredited by ISED

The Conformity Assessment Body Identifier is CN0114

Name of Firm

: EMTEK (NINGBO) CO., LTD.

Site Location

: No. 8, Building 8, Lane 216, Qingyi Road, Ningbo High-Tech Zone, Ningbo, Zhejiang, China

6 TEST SYSTEM UNCERTAINTY

The following measurement uncertainty levels have been estimated for tests performed on the apparatus:

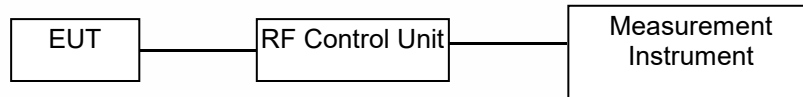
Test Parameter	Measurement Uncertainty
Frequency error	$\pm 20\text{Hz}$
Occupied Bandwidth	$\pm 0.5\text{KHz}$
Transmitter output power	$\pm 0.6\text{dB}$
Conducted spurious emissions	$\pm 3.2\text{dB}$
Radiated spurious emissions	$\pm 4.5\text{dB}$
Temperature	$\pm 1.2^{\circ}\text{C}$
Humidity	$\pm 3\%$
DC voltages	$\pm 0.25\text{V}$
Time	$\pm 1\%$

Measurement Uncertainty for a level of Confidence of 95%

7 SETUP OF EQUIPMENT UNDER TEST

7.1 RADIO FREQUENCY TEST SETUP 1

The 2.4G Hopping component's antenna ports(s) of the EUT are connected to the measurement instrument per an appropriate attenuator. The EUT is controlled by PC/software to emit the specified signals for the purpose of measurements.



7.2 RADIO FREQUENCY TEST SETUP 2

The test site semi-anechoic chamber has met the requirement of NSA tolerance 4 dB according to the standards: ANSI C63.10. The test distance is 3m. The setup is according to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 and CAN/CSA-CEI/IEC CISPR 22.

Below 30MHz:

The EUT is placed on a turntable 0.8meters above the ground in the chamber, 3 meter away from the antenna (loop antenna). The Antenna should be positioned with its plane vertical at the specified distance from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. The center of the loop shall be 1 m above the ground. For certain applications, the loop antenna plane may also need to be positioned horizontally at the specified distance from the EUT.

Above 30MHz:

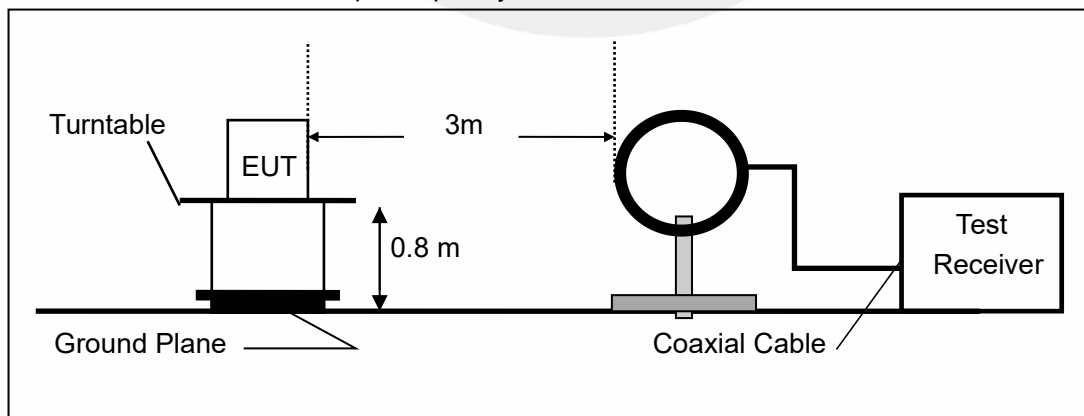
The EUT is placed on a turntable 0.8meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

Above 1GHz:

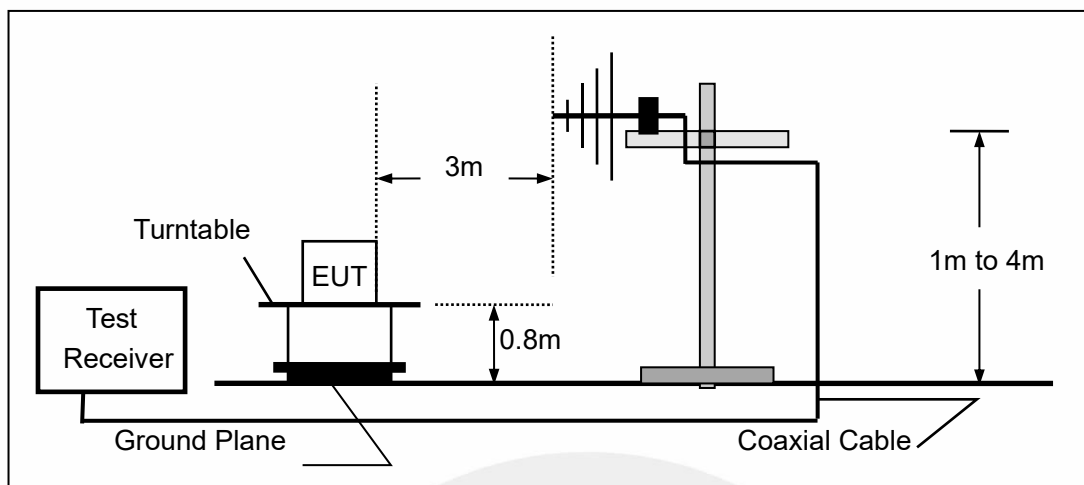
(Note: the FCC's permission to use 1.5m as an alternative per TCBC Conf call of Dec. 2, 2014.)

The EUT is placed on a turntable 1.5 meters above the ground in the chamber, 3 meter away from the antenna. The maximal emission value is acquired by adjusting the antenna height, polarisation and turntable azimuth. Normally, the height range of antenna is 1 m to 4 m, the azimuth range of turntable is 0° to 360°, and the receive antenna has two polarizations Vertical (V) and Horizontal (H).

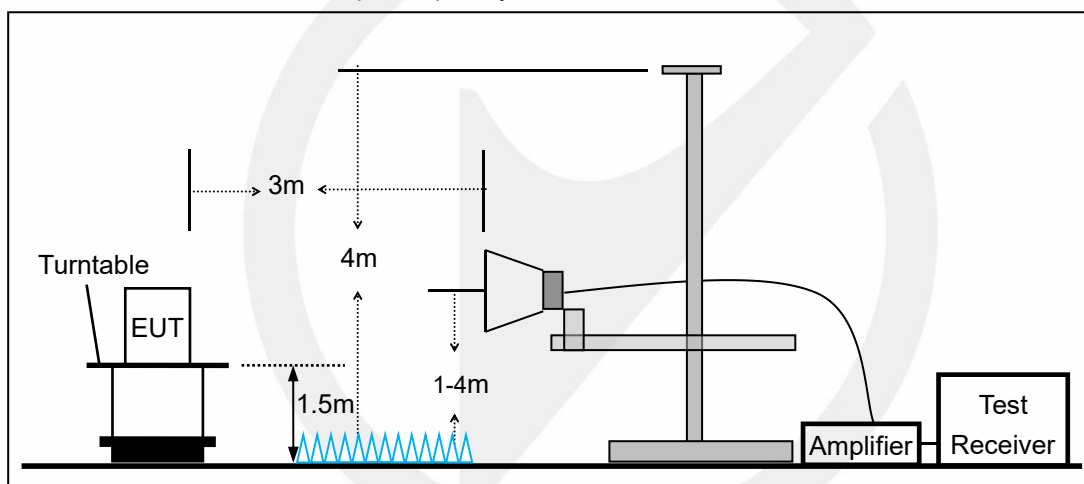
(a) Radiated Emission Test Set-Up, Frequency Below 30MHz



(b) Radiated Emission Test Set-Up, Frequency Below 1000MHz



(c) Radiated Emission Test Set-Up, Frequency above 1000MHz

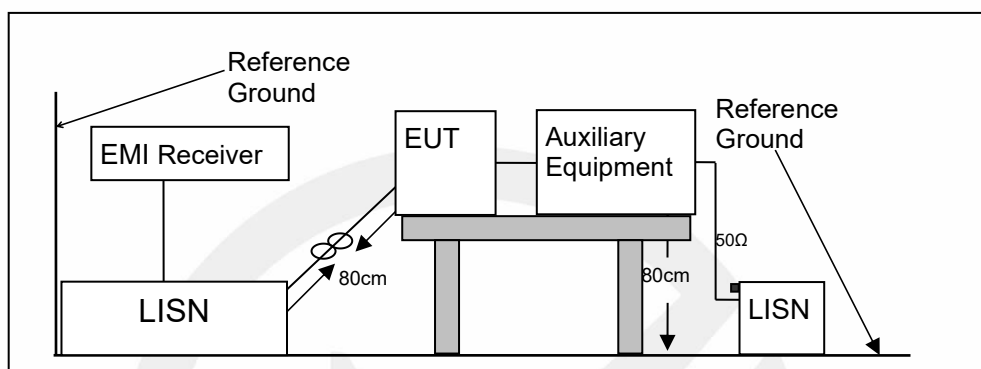


7.3 CONDUCTED EMISSION TEST SETUP

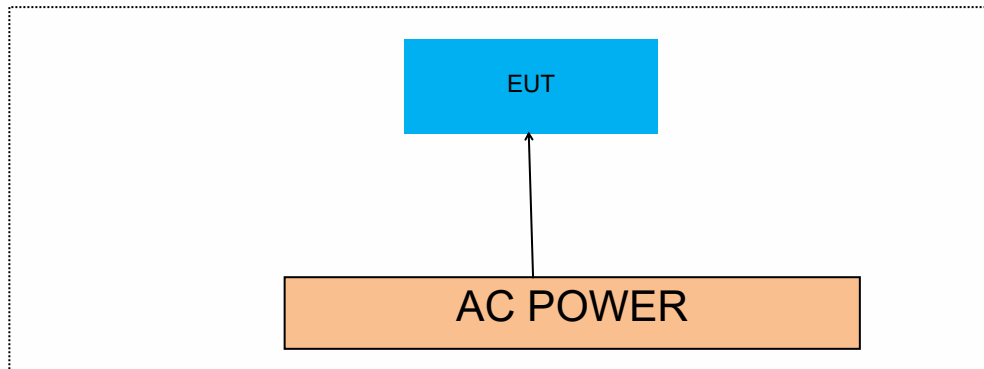
The mains cable of the EUT (Perfect Share Mini) must be connected to LISN. The LISN shall be placed 0.8m from the boundary of EUT and bonded to a ground reference plane for LISN mounted on top of the ground reference plane. This distance is between the closest points of the LISN and the EUT. All other units of the EUT and associated equipment shall be at least 0.8m from the LISN.

Ground connections, where required for safety purposes, shall be connected to the reference ground point of the LISN and, where not otherwise provided or specified by the manufacturer, shall be of same length as the mains cable and run parallel to the mains connection at a separation distance of not more than 0.8m.

According to the requirements in Section 13.1.4.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30 MHz using CISPR Quasi-Peak and average detector mode.



7.4 BLOCK DIAGRAM CONFIGURATION OF TEST SYSTEM



7.5 SUPPORT EQUIPMENT

EUT Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Cable List and Details			
Cable Description	Length (m)	Shielded/Unshielded	With / Without Ferrite
/	/	/	/

Auxiliary Equipment List and Details			
Description	Manufacturer	Model	Serial Number
/	/	/	/

Notes:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

8 FREQUENCY HOPPING SYSTEM REQUIREMENTS

8.1 Standard Applicable

According to FCC Part 15.247(a)(1), The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

(g) Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section.

(h) The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted.

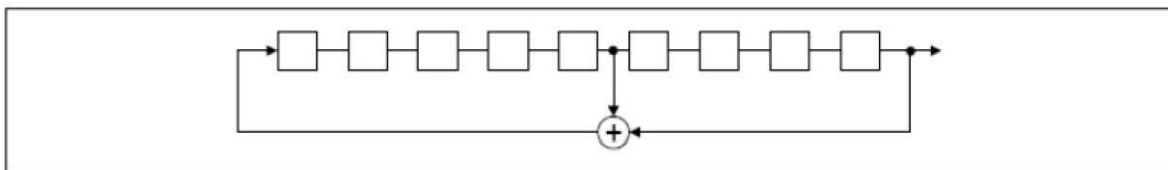
8.2 EUT Pseudorandom Frequency Hopping Sequence

The channel is represented by a pseudo-random hopping sequence hopping through the 79 RF channels. The hopping sequence is unique for the piconet and is determined by the 2.4G Hopping device address of the master; the phase in the hopping sequence is determined by the 2.4G Hopping clock of the master. The channel is divided into time slots where each slot corresponds to an RF hop frequency. Consecutive hops correspond to different RF hop frequencies. The normal hop is 1 600 hops/s.

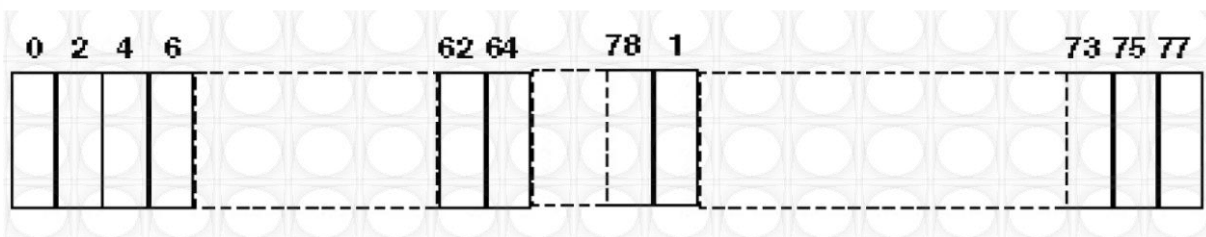
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage, and the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONES; i.e. the shift register is initialized with nine ones. Number of shift register stages: 9

Length of pseudo-random sequence: $2^9 - 1 = 511$ bits

Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence



Each frequency used equally on the average by each transmitter.

The system receiver have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.

8.3 Equal Hopping Frequency Use

All 2.4G Hopping units participating in the piconet are time and hop-synchronized to the channel.

Example of a 79 hopping sequence in data mode:

35, 27, 6, 44, 14, 61, 74, 32, 1, 11, 23, 2, 55, 65, 29, 3, 9, 52, 78, 58, 40, 25, 0, 7, 18, 26, 76, 60, 47, 50, 2, 5, 16, 37, 70, 63, 66, 54, 20, 13, 4, 8, 15, 21, 26, 10, 73, 77, 67, 69, 43, 24, 57, 39, 46, 72, 48, 33, 17, 31, 75, 19, 41, 62, 68, 28, 51, 66, 30, 56, 34, 59, 71, 22, 49, 64, 38, 45, 36, 42, 53

Each Frequency used equally on the average by each transmitter

8.4 Frequency Hopping System

This transmitter device is frequency hopping device, and complies with FCC part 15.247 rule.

This device uses 2.4G Hopping radio which operates in 2400-2483.5 MHz band. 2.4G Hopping uses a radio technology called frequency-hopping spread spectrum, which chops up the data being sent and transmits chunks of it on up to 79 bands (1 MHz each; centred from 2403 to 2480 MHz) in the range 2,400-2,483.5 MHz. The transmitter switches hop frequencies 1,600 times per second to assure a high degree of data security. All 2.4G Hopping devices participating in a given piconet are synchronized to the frequency-hopping channel for the piconet. The frequency hopping sequence is determined by the master's device address and the phase of the hopping sequence (the frequency to hop at a specific time) is determined by the master's internal clock. Therefore, all slaves in a piconet must know the master's device address and must synchronize their clocks with the master's clock.

Adaptive Frequency Hopping (AFH) was introduced in the 2.4G Hopping specification to provide an effective way for a 2.4G Hopping radio to counteract normal interference. AFH identifies "bad" channels, where either other wireless devices are interfering with the 2.4G Hopping signal or the 2.4G Hopping signal is interfering with another device. The AFH- enabled 2.4G Hopping device will then communicate with other devices within its piconet to share details of any identified bad channels. The devices will then switch to alternative available "good" channels, away from the areas of interference, thus having no impact on the bandwidth used.

9 TEST REQUIREMENTS

9.1 20DB&99%BANDWIDTH

9.1.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02
According to IC RSS-247.5.1 and RSS-Gen.6.7

9.1.2 Conformance Limit

No limit requirement.

9.1.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.1.4 Test Procedure

The EUT was operating in 2.4G Hopping mode and controlled its channel. Printed out the test result from the spectrum by hard copy function.

The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement.

Set to the maximum power setting and enable the EUT transmit continuously

Set RBW = 30 kHz.

Set the video bandwidth (VBW) = 100kHz.

Set Span= approximately 2 to 3 times the 20 dB bandwidth

Set Detector = Peak.

Set Trace mode = max hold.

Set Sweep = auto couple.

The EUT should be transmitting at its maximum data rate. Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. Use the marker-delta function to measure 20 dB down one side of the emission. Reset the marker delta function, and move the marker to the other side of the emission, until it is (as close as possible to) even with the reference marker level. The marker-delta reading at this point is the 20 dB bandwidth of the emission.

If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation.

Measure and record the results in the test report.

Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

20dB Emission Bandwidth

Test Mode	Antenna	Frequency[MHz]	20db EBW[MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G SRD	Ant1	2403	0.567	2402.700	2403.267	---	---
2.4G SRD	Ant1	2440	0.585	2439.685	2440.270	---	---
2.4G SRD	Ant1	2480	0.570	2479.697	2480.267	---	---

Occupied Channel Bandwidth

Test Mode	Antenna	Frequency[MHz]	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
2.4G SRD	Ant1	2403	0.54743	2402.7054	2403.2528	---	---
2.4G SRD	Ant1	2440	0.53577	2439.7142	2440.2500	---	---
2.4G SRD	Ant1	2480	0.53984	2479.7166	2480.2564	---	---



20dB Emission Bandwidth



Occupied Channel Bandwidth



9.2 CARRIER FREQUENCY SEPARATION

9.2.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02
According to IC RSS-247.5.1

9.2.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall have hopping channel carrier frequencies separated by a minimum of 25kHz or the 20dB bandwidth of the hopping channel, whichever is greater.

In case of an output power less than 125mW, the frequency hopping system may have channels separated by a minimum of 25kHz or two-thirds of the 20dB bandwidth of the hopping channel, whichever is greater.

9.2.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.2.4 Test Procedure

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

Set the RBW = 300kHz. Set VBW = 300kHz.

Set the span = wide enough to capture the peaks of two adjacent channels

Set Sweep time = auto couple.

Set Detector = peak. Set Trace mode = max hold.

Allow the trace to stabilize. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. The limit is specified in one of the subparagraphs of this Section. Submit this plot.

Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Test Mode	Antenna	Frequency[MHz]	Result[MHz]	Limit[MHz]	Verdict
2.4G SRD	Ant1	Hop	1.006	≥0.570	PASS



9.3 NUMBER OF HOPPING FREQUENCIES

9.3.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

According to IC RSS-247.5.1

9.3.2 Conformance Limit

Frequency hopping systems operating in the 2400-2483.5MHz band shall use at least 15 channels.

9.3.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.3.4 Test Procedure

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

Span = the frequency band of operation (2400-2483.5MHz)

RBW = 300KHz

VBW ≥ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Allow the trace to stabilize. It may prove necessary to break the span up to sections, in order to clearly show all of the hopping frequencies.

Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Test Mode	Antenna	Frequency[MHz]	Result[Num]	Limit[Num]	Verdict
2.4G SRD	Ant1	Hop	78	≥15	PASS



2.4G SRD-Ant1-Hop-PASS



9.4 AVERAGE TIME OF OCCUPANCY (DWELL TIME)

9.4.1 Applicable Standard

According to FCC Part 15.247(a)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

According to IC RSS-247.5.1

9.4.2 Conformance Limit

For frequency hopping systems operating in the 2400-2483.5MHz band, the averagetime of occupancy on any channel shall not be greater than 0.4s within a period of 0.4smultiplied by the number of hopping channels employed.

9.4.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.4.4 Test Procedure

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

Span = zero span, centered on a hopping channel

RBW = 1 MHz

VBW $\geq$ RBW

Sweep = as necessary to capture the entire dwell time per hopping channel

Detector function = peak

Trace = max hold

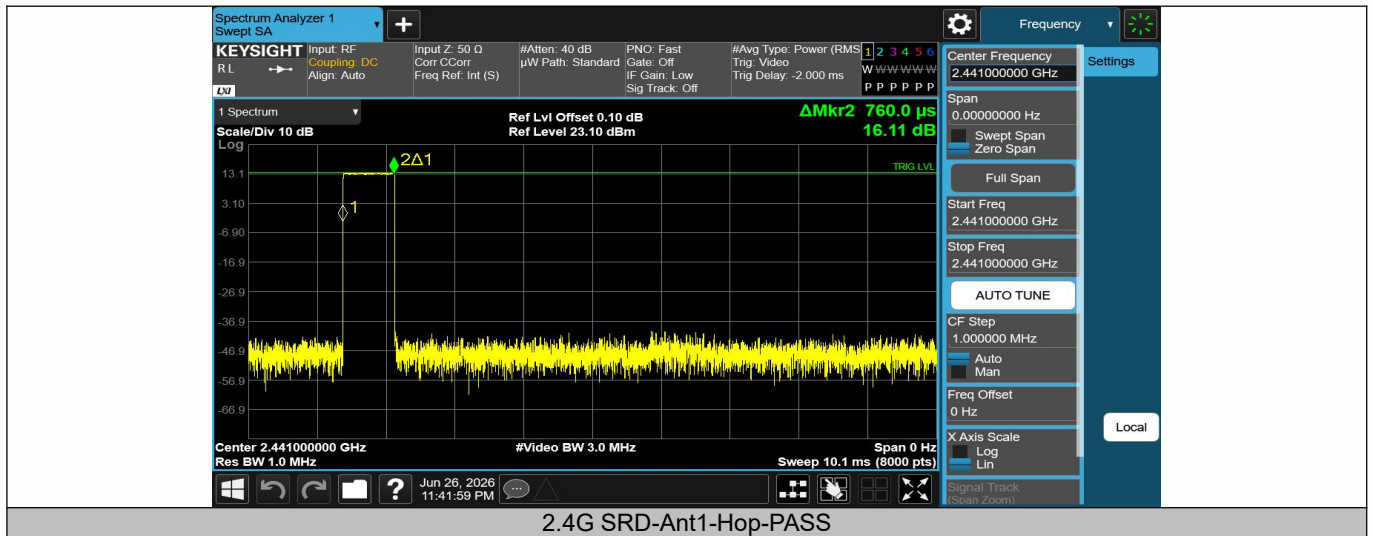
If possible, use the marker-delta function to determine the dwell time. If this value varies with different modes of operation (e.g., data rate, modulation format, etc.), repeat this test for each variation. The limit is specified in one of the subpara graphs of this Section.

9.4.5 Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: Total Hops(2.4G
 SRD)=(1600/6/79)*31.6
 Dwell Time=Burst Width*Total Hops

TestMode	Antenna	Frequency[MHz]	BurstWidth [ms]	TotalHops [Num]	Result[s]	Limit[s]	Verdict
2.4G SRD	Ant1	Hop	0.760	106.67	0.081	≤ 0.4	PASS



9.5 MAXIMUM PEAK CONDUCTED OUTPUT POWER

9.5.1 Applicable Standard

According to FCC Part 15.247(b)(1) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02

According to IC RSS-247.5.4 and RSS-Gen 6.12

9.5.2 Conformance Limit

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

9.5.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.5.4 Test Procedure

As an alternative to a peak power measurement, compliance with the limit can be based on a measurement of the maximum conducted output power.

Use the following spectrum analyzer settings:

Set Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel(about 8MHz)

Set RBW > the 20 dB bandwidth of the emission being measured(about 3MHz)

Set VBW $\geq$ RBW

Set Sweep = auto

Set Detector function = peak

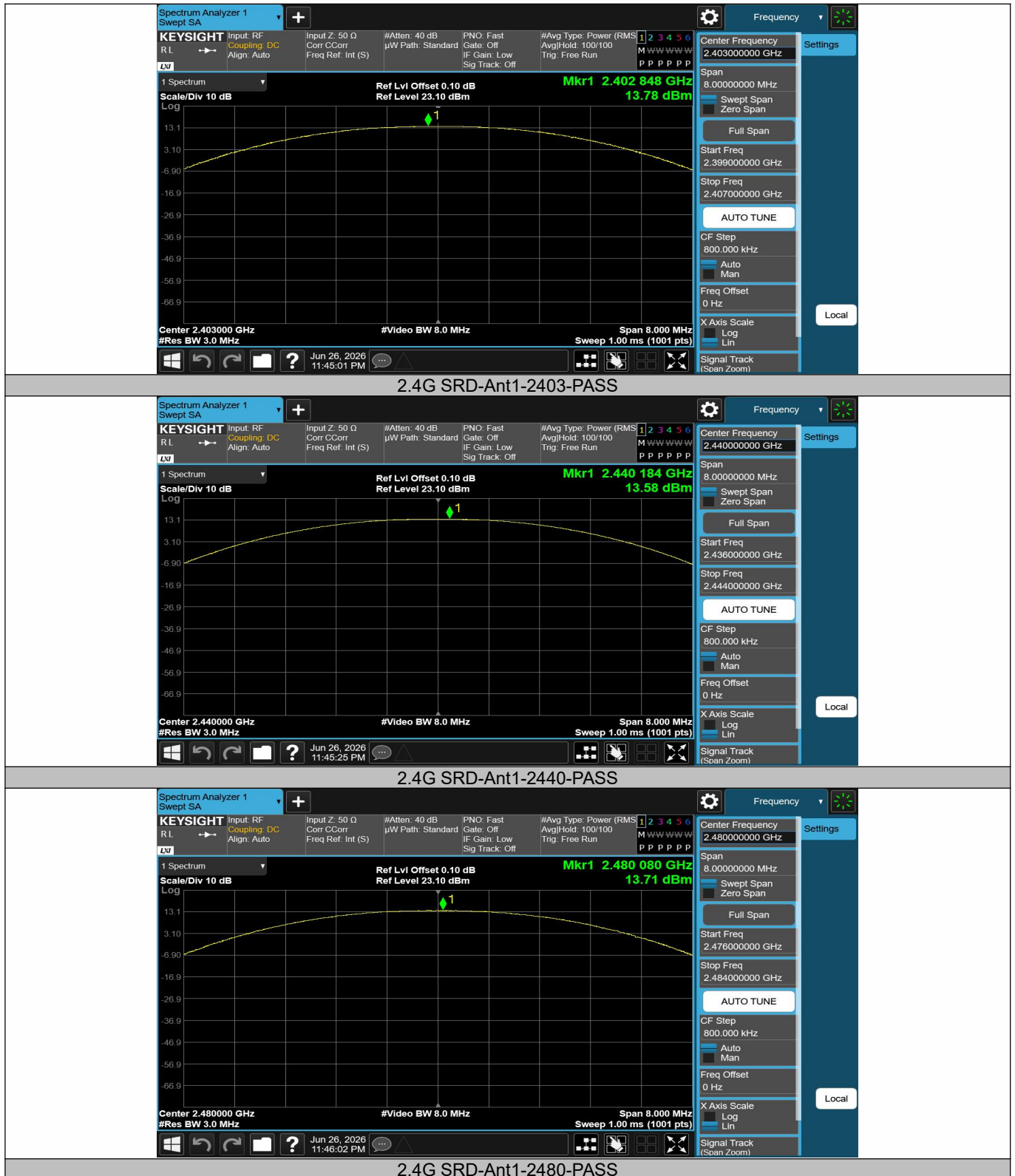
Set Trace = max hold

Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission to determine the peak amplitude level.

Test Results

Temperature:	25° C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Test Mode	Antenna	Frequency[MHz]	Duty Cycle [%]	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
2.4G SRD	Ant1	2403	16.93	13.78	≤ 30	PASS
2.4G SRD	Ant1	2440	16.93	13.58	≤ 30	PASS
2.4G SRD	Ant1	2480	16.93	13.71	≤ 30	PASS



9.6 CONDUCTED SUPRIIOUS EMISSION

9.6.1 Applicable Standard

According to FCC Part 15.247(d) and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02
According to IC RSS-247.5.5

9.6.2 Conformance Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum 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, provided the transmitter demonstrates compliance with the peak conducted power limits.

9.6.3 Test Configuration

Test according to clause 7.1 radio frequency test setup 1

9.6.4 Test Procedure

The transmitter output (antenna port) was connected to the spectrum analyzer

■ Reference level measurement

Establish a reference level by using the following procedure:

Set instrument center frequency to DSS channel center frequency.

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

Set the RBW = 100 kHz. Set the VBW $\geq 3 \times$ RBW.

Set Detector = peak. Set Sweep time = auto couple.

Set Trace mode = max hold. Allow trace to fully stabilize.

Use the peak marker function to determine the maximum Maximum conducted level.

Note that the channel found to contain the maximum conducted level can be used to establish the reference level.

■ Band-edge measurement

Use the following spectrum analyzer settings:

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band-edge, as well as any modulation products which fall outside of the authorized band of operation

Set RBW $\geq 1\%$ of the span=100kHzSet VBW $\geq 3 \times$ RBW

Set Sweep = auto Set Detector function = peak Set Trace = max hold

Allow the trace to stabilize. Set the marker on the emission at the band edge, or on the highest modulation product outside of the band, if this level is greater than that at the band edge. Enable the marker-delta function, then use the marker-to-peak function to move the marker to the peak of the in-band emission. The marker-delta value now displayed must comply with the limit specified in this Section.

Now, using the same instrument settings, enable the hopping function of the EUT. Allow the trace to stabilize.

Follow the same procedure listed above to determine if any spurious emissions caused by the hopping function also comply with the specified limit.

■ Emission level measurement

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.(30MHz to 25GHz).Set RBW = 100 kHzSet VBW $\geq$ RBW

Set Sweep = autoSet Detector function = peakSet Trace = max hold

Allow the trace to stabilize. Set the marker on the peak of any spurious emission recorded. The level displayed must comply with the limit specified in this Section.

9.6.5 Test Results

Temperature:	25°C
Relative Humidity:	45%
ATM Pressure:	1011 mbar

Note: N/A

■ Reference level measurement

Test Mode	Antenna	Freq(MHz)	Max.Point[MHz]	Result[dBm]
2.4G SRD	Ant1	2403	2403.16	13.53
2.4G SRD	Ant1	2440	2440.16	13.40
2.4G SRD	Ant1	2480	2480.17	13.61

■ Band-edge measurement

Test Mode	Antenna	Ch Name	Frequency[MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G SRD	Ant1	Low	2403	13.53	-35.71	≤-6.47	PASS
2.4G SRD	Ant1	High	2480	13.61	-45.23	≤-6.39	PASS
2.4G SRD	Ant1	Low	Hop_2403	13.13	-41.79	≤-6.87	PASS
2.4G SRD	Ant1	High	Hop_2480	12.20	-43.2	≤-7.8	PASS

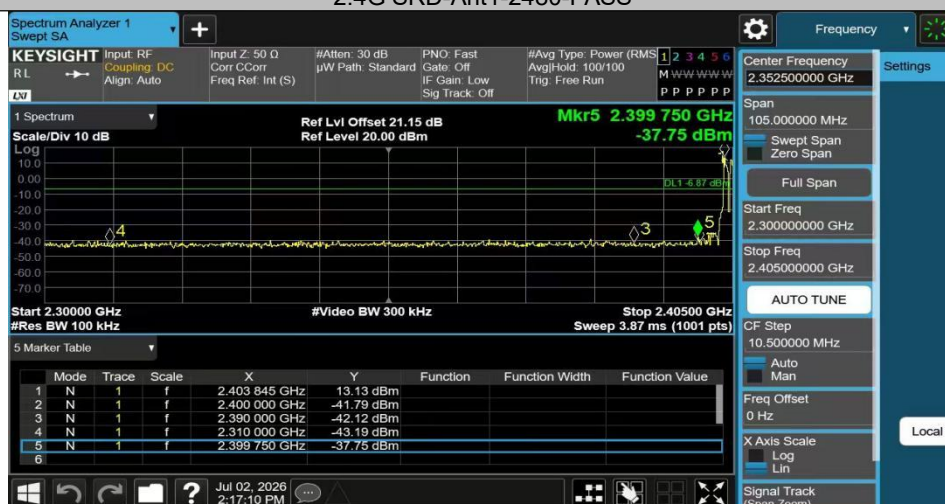
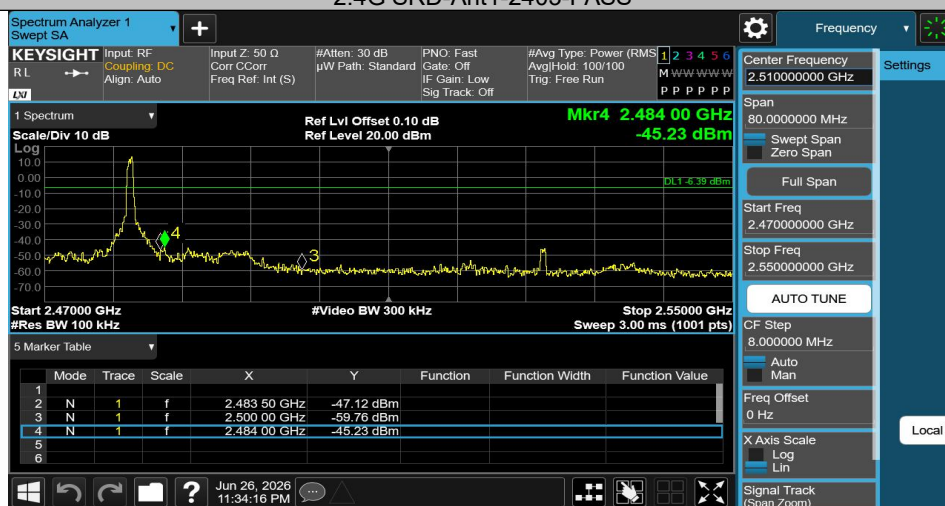
■ Emission level measurement

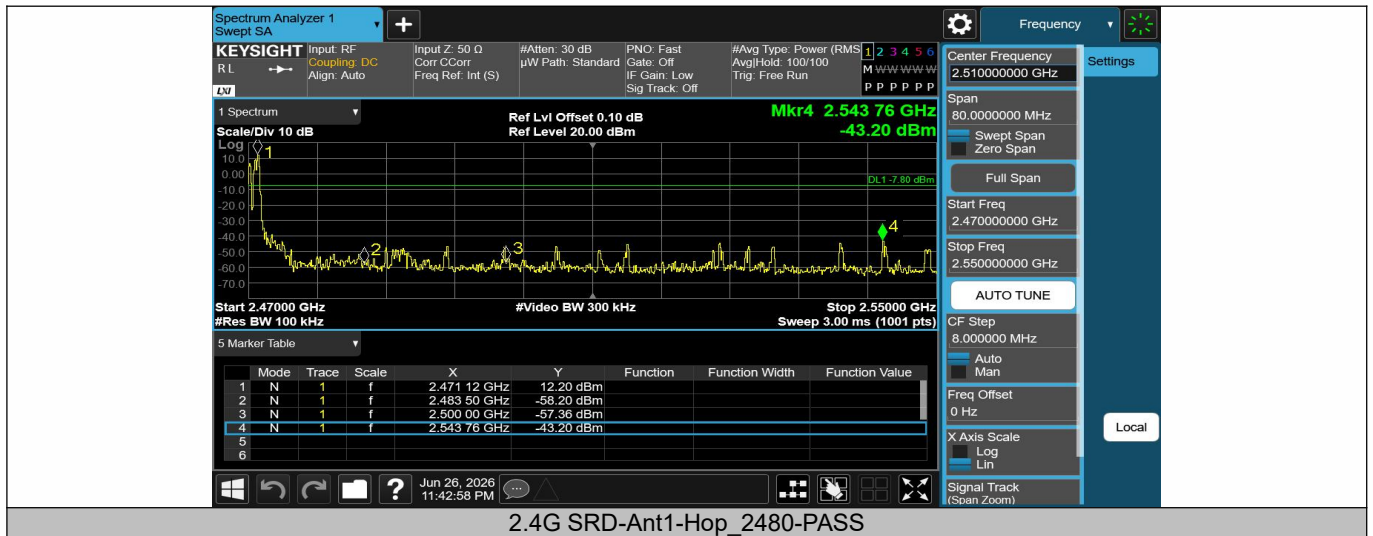
Test Mode	Antenna	Frequency[MHz]	Freq Range [MHz]	Ref Level [dBm]	Result [dBm]	Limit [dBm]	Verdict
2.4G SRD	Ant1	2403	30~1000	13.53	-72.88	≤-6.47	PASS
2.4G SRD	Ant1	2403	1000~26500	13.53	-43.62	≤-6.47	PASS
2.4G SRD	Ant1	2440	30~1000	13.40	-72.49	≤-6.6	PASS
2.4G SRD	Ant1	2440	1000~26500	13.40	-43.02	≤-6.6	PASS
2.4G SRD	Ant1	2480	30~1000	13.61	-72.64	≤-6.39	PASS
2.4G SRD	Ant1	2480	1000~26500	13.61	-37.36	≤-6.39	PASS

Reference level measurement

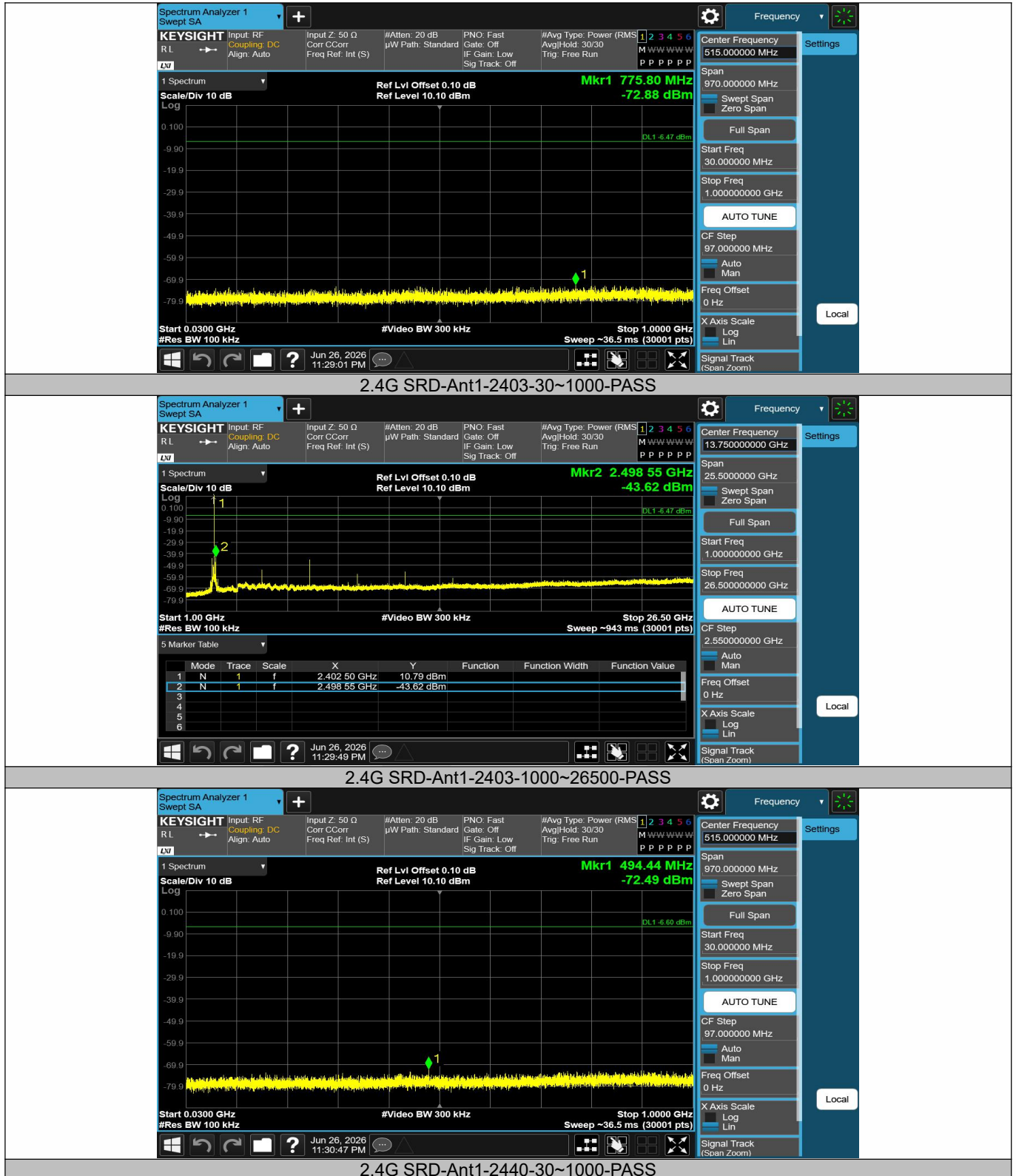


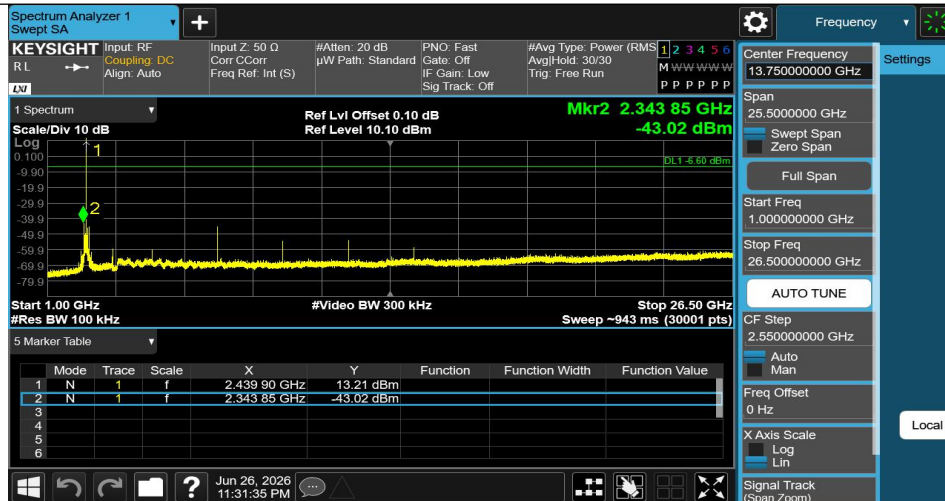
■ Band-edge measurement



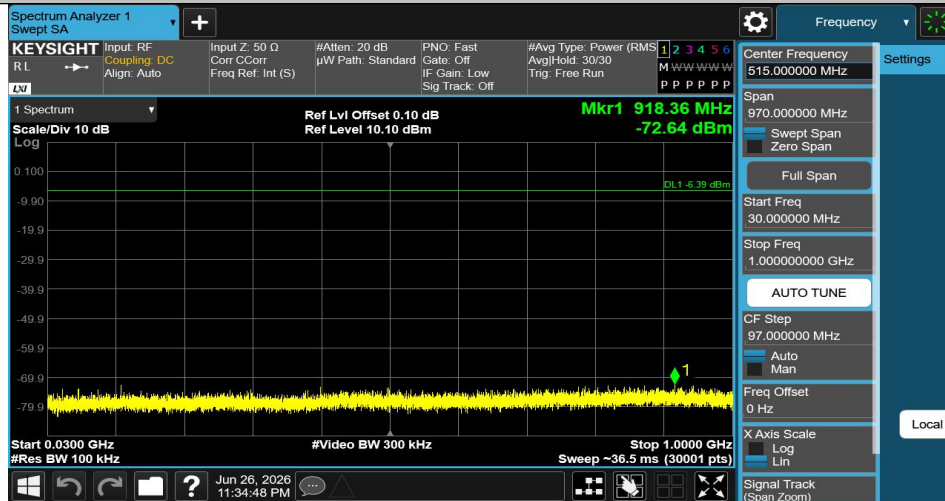


■ Emission level measurement

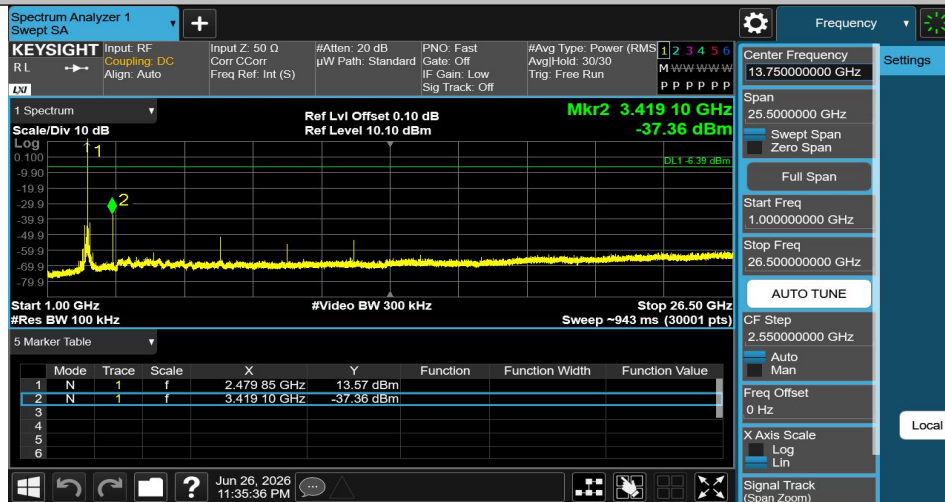




2.4G SRD-Ant1-2440-1000~26500-PASS



2.4G SRD-Ant1-2480-30~1000-PASS



2.4G SRD-Ant1-2480-1000~26500-PASS

9.7 RADIATED SPURIOUS EMISSION

9.7.1 Applicable Standard

According to FCC Part 15.247(d), 15.205, 15.209 and KDB 558074 D01 15.247 MEAS GUIDANCE v05r02
According to IC RSS-Gen and RSS-247

9.7.2 Conformance Limit

According to FCC Part 15.247(d): radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

According to FCC Part 15.205, Restricted bands

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
10.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(2)
13.36-13.41			

According to FCC Part 15.205, the level of any transmitter spurious emission in Restricted bands shall not exceed the level of the emission specified in the following table

Restricted Frequency(MHz)	Field Strength ($\mu\text{V/m}$)	Field Strength ($\text{dB}\mu\text{V/m}$)	Measurement Distance
0.009-0.490	2400/F(KHz)	20 log ($\mu\text{V/m}$)	300
0.490-1.705	24000/F(KHz)	20 log ($\mu\text{V/m}$)	30
1.705-30	30	29.5	30
30-88	100	40	3
88-216	150	43.5	3
216-960	200	46	3
Above 960	500	54	3

9.7.3 Test Configuration

Test according to clause 7.2 radio frequency test setup 2

9.7.4 Test Procedure

This test is required for any spurious emission that falls in a Restricted Band, as defined in Section 15.205. It must be performed with the highest gain of each type of antenna proposed for use with the EUT. Use the following spectrum analyzer settings:

For Above 1GHz:

The EUT was placed on a turn table which is 1.5m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 1GHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 100 kHz for

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 30MHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 9kHz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

For Below 150KHz:

The EUT was placed on a turn table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Span = wide enough to fully capture the emission being measured

RBW = 200Hz

VBW $\geq$ RBW

Sweep = auto

Detector function = peak

Trace = max hold

Follow the guidelines in ANSI C63.10-2020 with respect to maximizing the emission by rotating the EUT, measuring the emission while the EUT is situated in three orthogonal planes (if appropriate), adjusting the measurement antenna height and polarization, etc. A pre-amp and a high pass filter are required for this test, in order to provide the measuring system with sufficient sensitivity. Allow the trace to stabilize. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, which must comply with the limit specified in Section 15.35(b). Submit this data.

Now set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the dwell time per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from $20\log(\text{dwell time}/100 \text{ ms})$, in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Repeat above procedures until all frequency measured was complete.

9.7.5 Test Results

■ Spurious Emission below 30MHz(9KHz to 30MHz)

Temperature:	25° C
Relative Humidity:	60%
ATM Pressure:	1011 mbar

Freq. (MHz)	Ant.Pol. H/V	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
		PK	AV	PK	AV	PK	AV
--	--	--	--	--	--	--	--

Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.

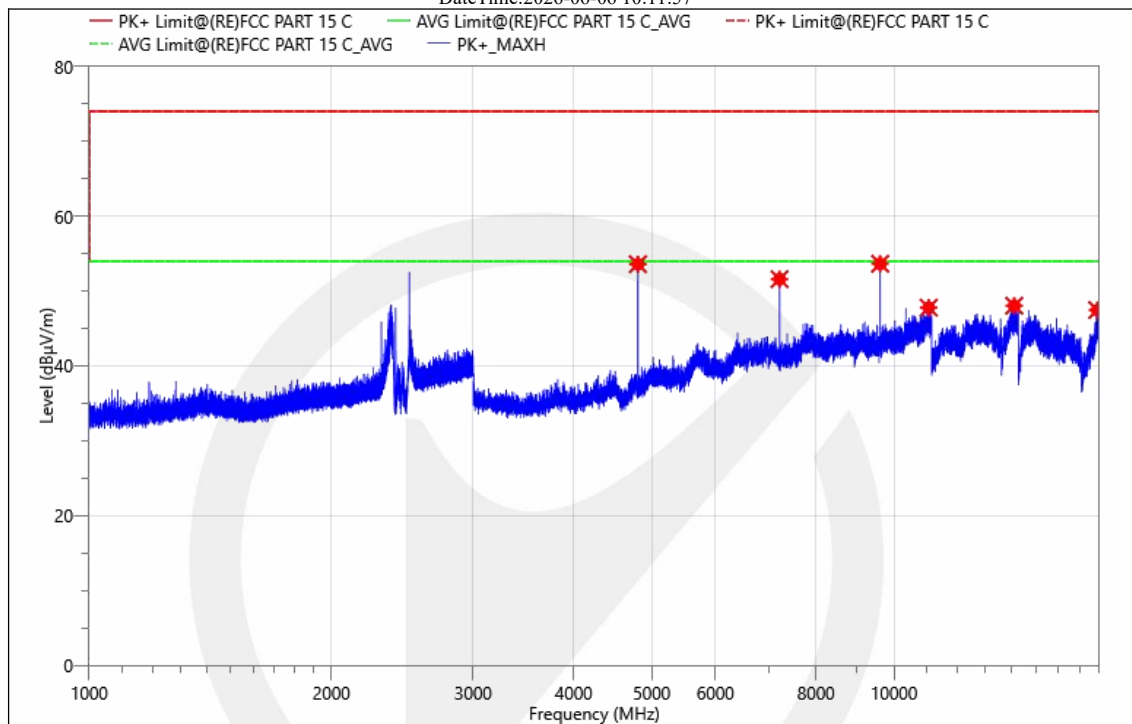
Distance extrapolation factor = $40\log(\text{Specific distance}/ \text{test distance})$ (dB);

Limit line = Specific limits(dBuV) + distance extrapolation factor

■ Spurious Emission Above 1GHz(1GHz to 25GHz)

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2403 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:11:57



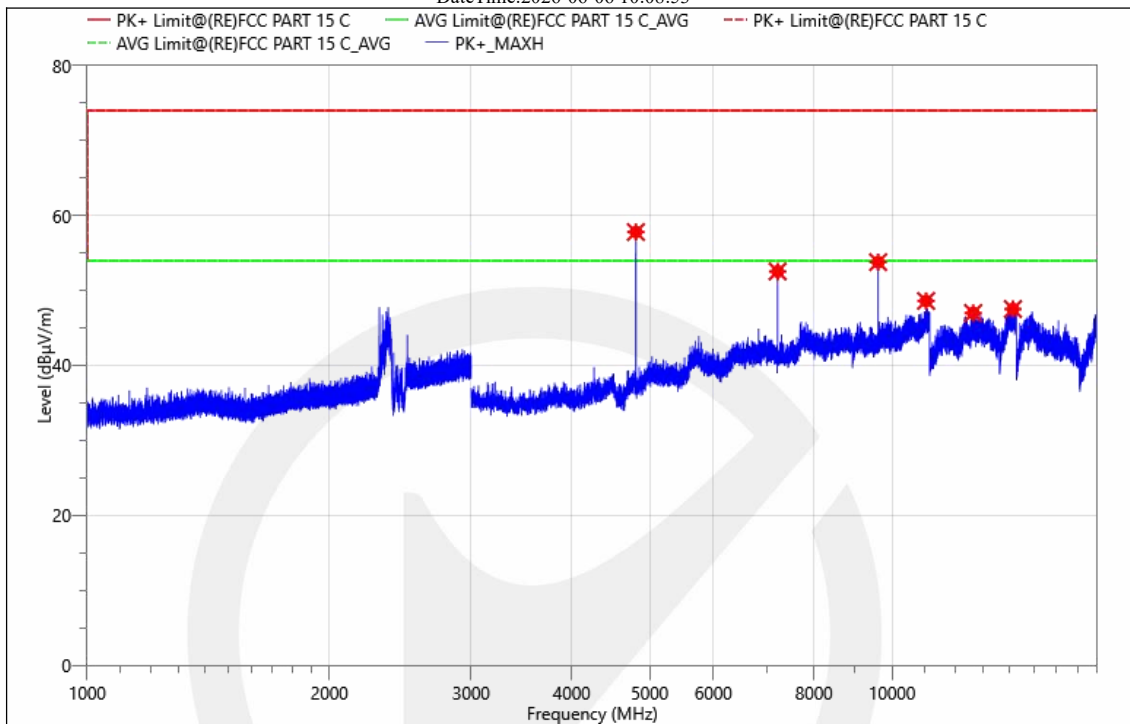
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4806.000	62.38	-8.78	53.60	74.00	20.40	PK+	V	PASS
2	7208.500	52.16	-0.56	51.60	74.00	22.40	PK+	V	PASS
3	9612.500	51.10	2.55	53.65	74.00	20.35	PK+	V	PASS
4	11043.000	41.32	6.47	47.79	74.00	26.21	PK+	V	PASS
5	14106.500	38.98	9.07	48.05	74.00	25.95	PK+	V	PASS
6	17895.000	35.06	12.41	47.47	74.00	26.53	PK+	V	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2403 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:08:53



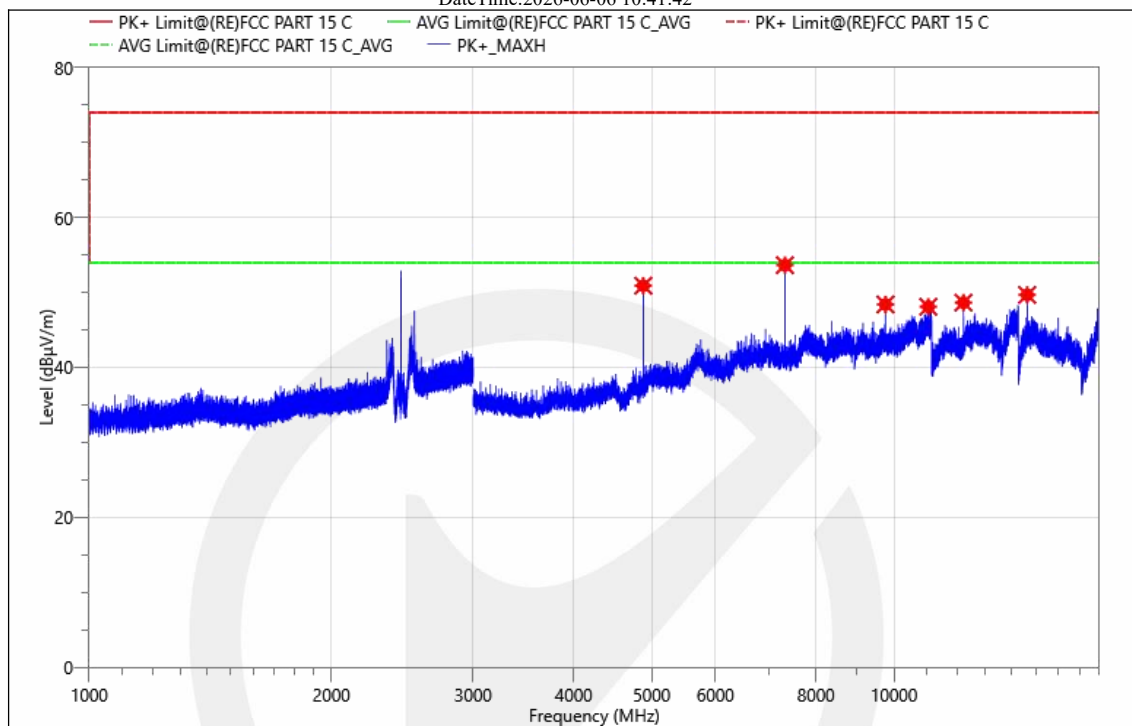
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4805.500	66.59	-8.79	57.80	74.00	16.20	PK+	H	PASS
2	4805.500	/	/	42.38	54.00	11.62	AVG	H	PASS
3	7209.500	53.09	-0.55	52.54	74.00	21.46	PK+	H	PASS
4	9611.500	51.24	2.54	53.78	74.00	20.22	PK+	H	PASS
5	11024.500	42.02	6.59	48.61	74.00	25.39	PK+	H	PASS
6	12615.500	39.52	7.48	47.00	74.00	27.00	PK+	H	PASS
7	14135.000	38.45	9.08	47.53	74.00	26.47	PK+	H	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2440 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:41:42



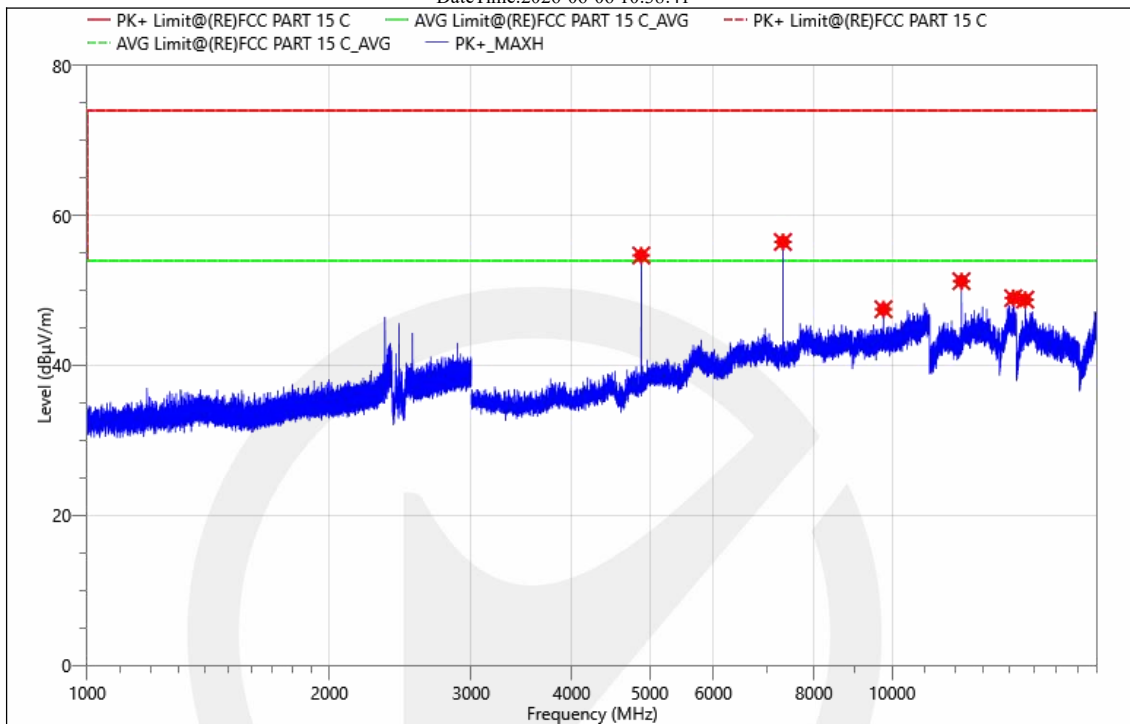
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4880.500	59.13	-8.22	50.91	74.00	23.09	PK+	V	PASS
2	7319.500	54.03	-0.38	53.65	74.00	20.35	PK+	V	PASS
3	9759.500	45.46	2.95	48.41	74.00	25.59	PK+	V	PASS
4	11032.000	41.56	6.54	48.10	74.00	25.90	PK+	V	PASS
5	12199.000	42.87	5.78	48.65	74.00	25.35	PK+	V	PASS
6	14640.000	40.52	9.16	49.68	74.00	24.32	PK+	V	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2440 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:38:41



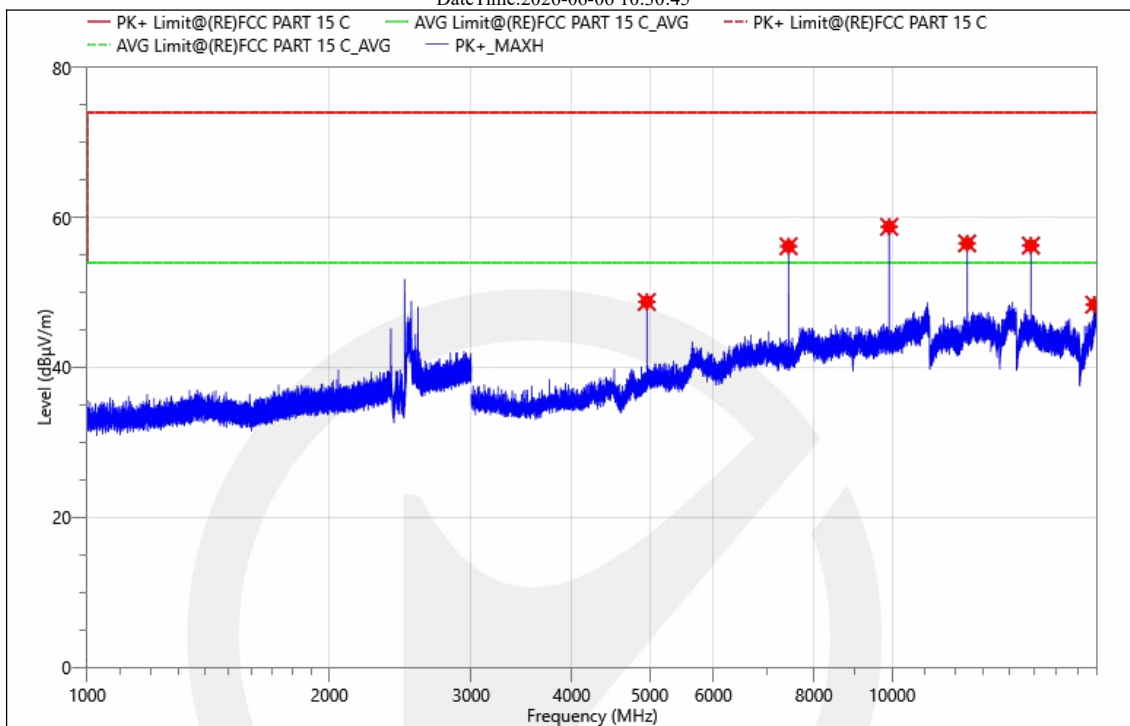
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4880.000	62.90	-8.22	54.68	74.00	19.32	PK+	H	PASS
2	4880.000	/	/	39.26	54.00	14.74	AVG	H	PASS
3	7319.500	56.86	-0.38	56.48	74.00	17.52	PK+	H	PASS
4	7319.500	/	/	41.06	54.00	12.94	AVG	H	PASS
5	9761.000	44.55	2.95	47.50	74.00	26.50	PK+	H	PASS
6	12199.000	45.46	5.78	51.24	74.00	22.76	PK+	H	PASS
7	14149.500	39.90	9.08	48.98	74.00	25.02	PK+	H	PASS
8	14638.500	39.62	9.16	48.78	74.00	25.22	PK+	H	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2480 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:30:45



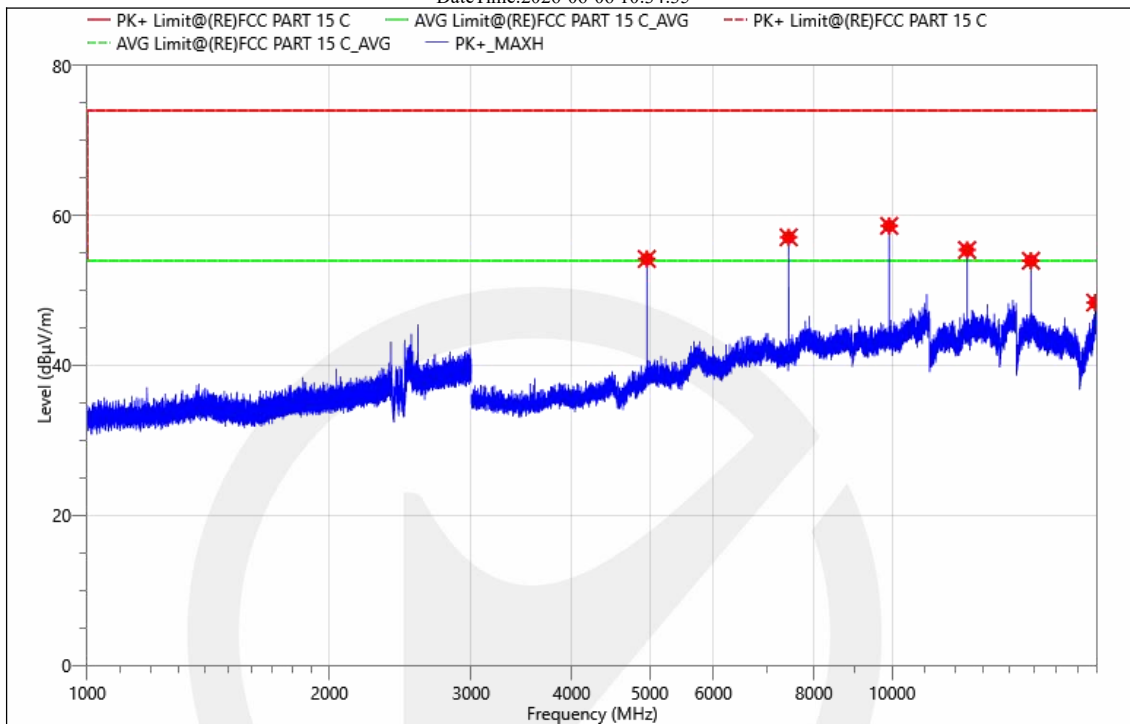
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4960.000	56.15	-7.41	48.74	74.00	25.26	PK+	V	PASS
2	7439.500	56.31	-0.14	56.17	74.00	17.83	PK+	V	PASS
3	7439.500	/	/	40.75	54.00	13.25	AVG	V	PASS
4	9921.000	55.25	3.51	58.76	74.00	15.24	PK+	V	PASS
5	9921.000	/	/	43.34	54.00	10.66	AVG	V	PASS
6	12399.000	50.23	6.32	56.55	74.00	17.45	PK+	V	PASS
7	12399.000	/	/	41.13	54.00	12.87	AVG	V	PASS
8	14881.500	47.23	9.03	56.26	74.00	17.74	PK+	V	PASS
9	14881.500	/	/	40.84	54.00	13.16	AVG	V	PASS
10	17843.000	36.32	12.06	48.38	74.00	25.62	PK+	V	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2480 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:34:35

**Final_Result**

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	4960.000	61.62	-7.41	54.21	74.00	19.79	PK+	H	PASS
2	4960.000	/	/	38.79	54.00	15.21	AVG	H	PASS
3	7439.500	57.24	-0.14	57.10	74.00	16.90	PK+	H	PASS
4	7439.500	/	/	41.68	54.00	12.32	AVG	H	PASS
5	9921.000	55.11	3.51	58.62	74.00	15.38	PK+	H	PASS
6	9921.000	/	/	43.20	54.00	10.80	AVG	H	PASS
7	12399.000	49.09	6.32	55.41	74.00	18.59	PK+	H	PASS
8	12399.000	/	/	39.99	54.00	14.01	AVG	H	PASS
9	14881.000	44.94	9.03	53.97	74.00	20.03	PK+	H	PASS
10	17891.500	36.00	12.39	48.39	74.00	25.61	PK+	H	PASS

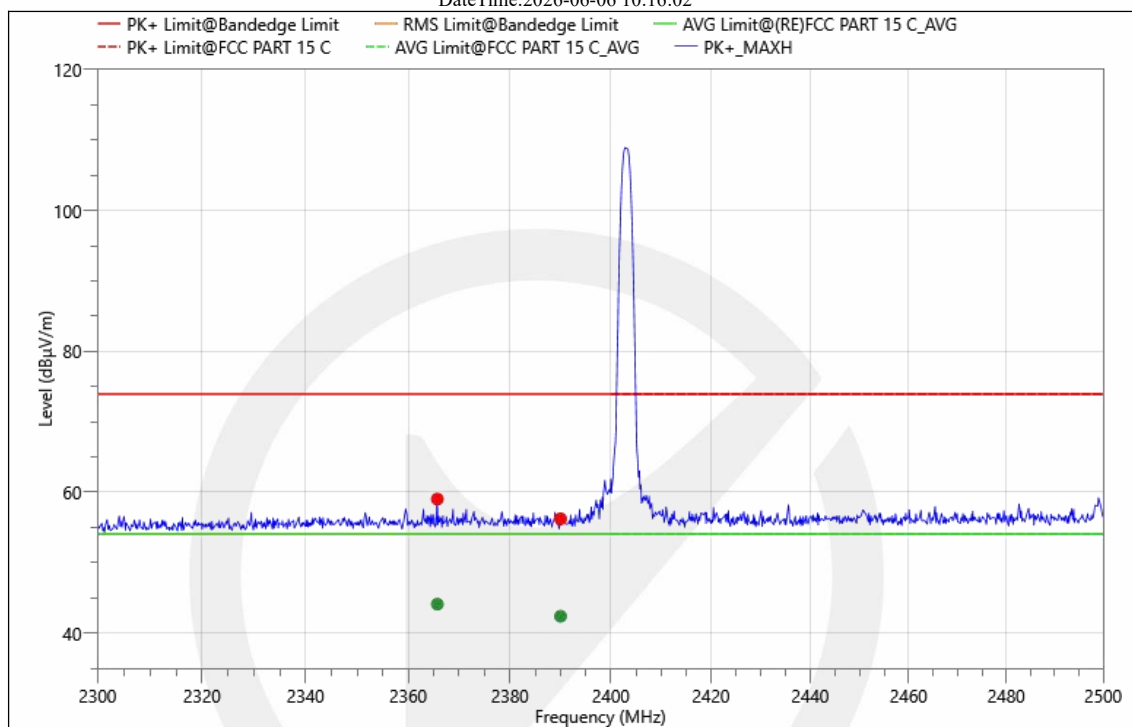
Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (Peak+20log(Duty Cycle)).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
- (5)The test frequency range, 18GHz~25GHz test result on peak is lower than average limit, all is the noise base, therefore no data appear in the report.

■ Spurious Emission in Restricted Band 2310-2390MHz and 2483.5-2500MHz

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2403 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:16:02



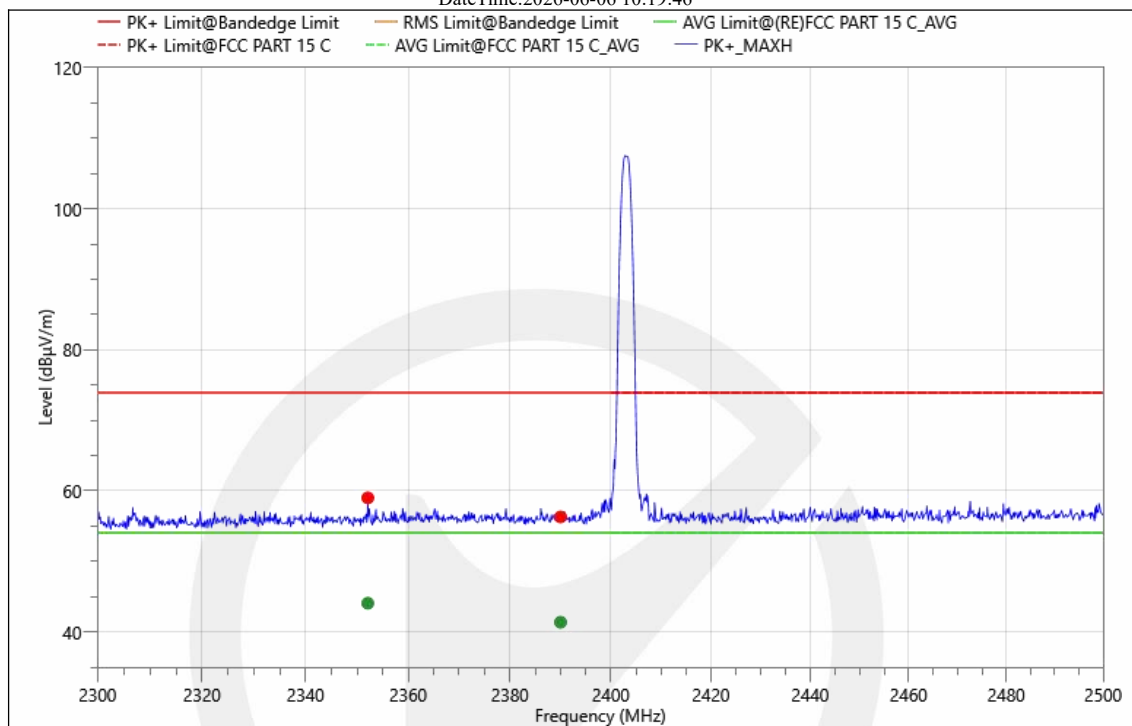
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2365.700	29.00	30.02	59.02	74.00	14.98	PK+	V	PASS
2	2365.700	14.08	30.02	44.10	54.00	9.90	AVG	V	PASS
3	2390.000	26.17	30.06	56.23	74.00	17.77	PK+	V	PASS
4	2390.000	12.33	30.06	42.39	54.00	11.61	AVG	V	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2403 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:19:46



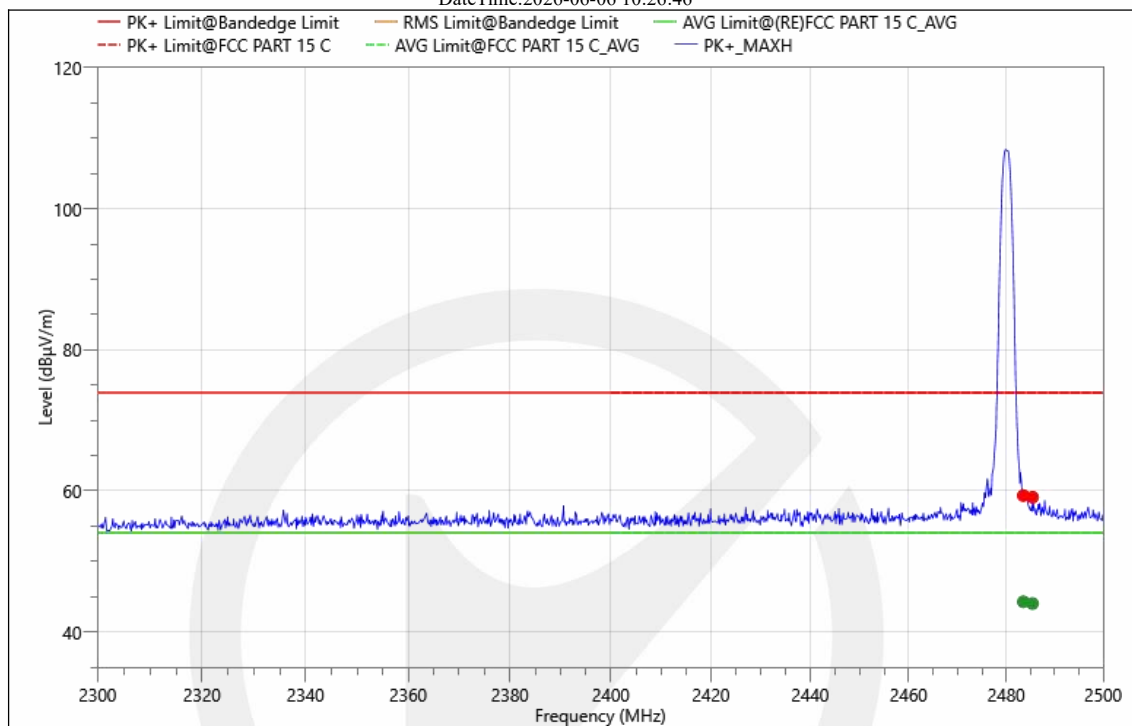
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2352.100	29.02	29.99	59.01	74.00	14.99	PK+	H	PASS
2	2352.100	14.08	29.99	44.07	54.00	9.93	AVG	H	PASS
3	2390.000	26.25	30.06	56.31	74.00	17.69	PK+	H	PASS
4	2390.000	11.32	30.06	41.38	54.00	12.62	AVG	H	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2480 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:26:46



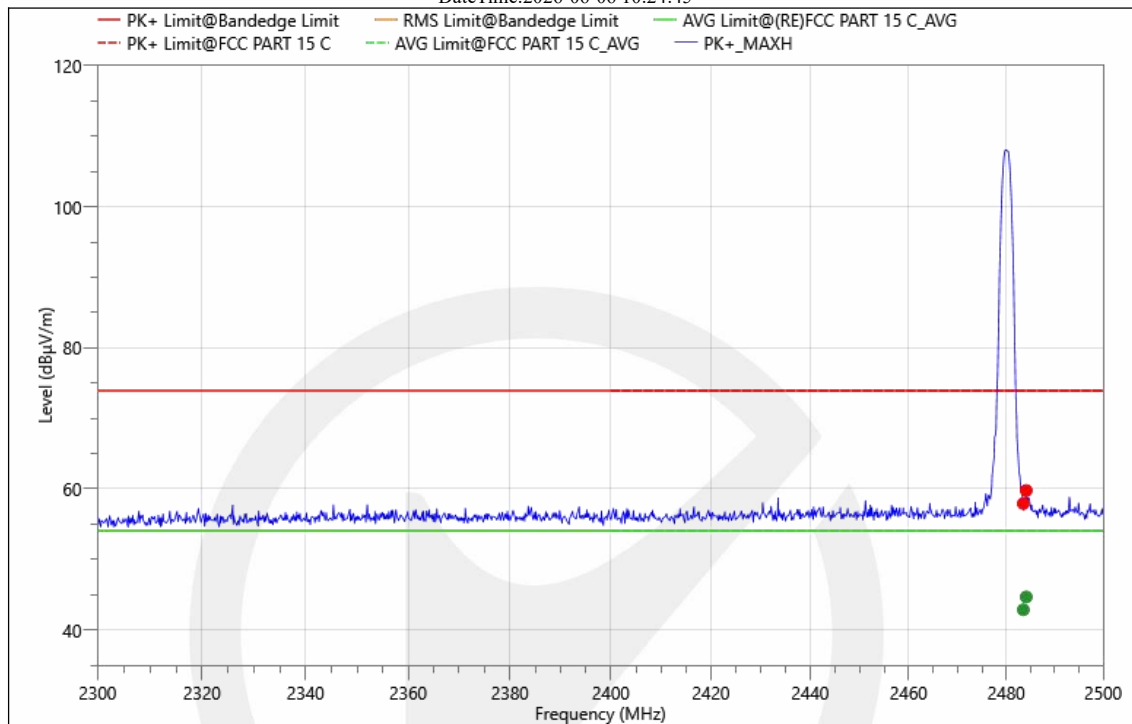
Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	28.99	30.34	59.33	74.00	14.67	PK+	V	PASS
2	2483.500	13.94	30.34	44.28	54.00	9.72	AVG	V	PASS
3	2485.400	28.75	30.35	59.10	74.00	14.90	PK+	V	PASS
4	2485.400	13.68	30.35	44.03	54.00	9.97	AVG	V	PASS

Project No. :	ENB2606050049W008	Customer :	Ningbo JingRun Control Technology Co.,Ltd.
Sample No. :	ENB2606050049W008-1-1	EUT :	Radio Control System
Model :	S4RX	Mode :	Transmit 2480 MHz
Voltage :	DC 6.5V	Engineer :	Alan Duan
Temp :	16°C	Humi :	50%

DateTime:2026-06-06 10:24:45



Final_Result

(Margin=Limit-Meas.(Reading +Corr.))

No.	Freq. (MHz)	Reading (dBμV)	Corr. (dB)	Meas. (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Det.	Pol.	Verdict
1	2483.500	27.58	30.34	57.92	74.00	16.08	PK+	H	PASS
2	2483.500	12.52	30.34	42.86	54.00	11.14	AVG	H	PASS
3	2484.100	29.42	30.35	59.77	74.00	14.23	PK+	H	PASS
4	2484.100	14.33	30.35	44.68	54.00	9.32	AVG	H	PASS

Note:

- (1) All Readings are Peak Value (VBW=3MHz) and Average Value (VBW=1/T kHz).
- (2) Emission Level= Reading Level+Correct Factor.
- (3) Correct Factor= Ant_F + Cab_L - Preamp
- (4) The reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

■ Spurious Emission below 1GHz(30MHz to 1GHz)

Freq. (MHz)	Ant.Pol.	Emission Level(dBuV/m)		Limit 3m(dBuV/m)		Over(dB)	
	H/V	PK	AV	PK	AV	PK	AV
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Note: the amplitude of spurious emission that is attenuated by more than 20dB below the permissible limit has no need to be reported.



9.8 CONDUCTED EMISSION TEST

9.8.1 Applicable Standard

According to FCC Part 15.207

According to IC RSS-Gen 8.8

9.8.2 Conformance Limit

Conducted Emission Limit		
Frequency(MHz)	Quasi-peak	Average
0.15-0.5	66-56	56-46
0.5-5.0	56	46
5.0-30.0	60	50
Note: 1. The lower limit shall apply at the transition frequencies 2. The limit decreases in line with the logarithm of the frequency in the range of 0.15 to 0.50MHz.		

9.8.3 Test Configuration

Test according to clause 7.3 conducted emission test setup

9.8.4 Test Procedure

The EUT was placed on a table which is 0.8m above ground plane.

Maximum procedure was performed on the highest emissions to ensure EUT compliance.

Repeat above procedures until all frequency measured were complete.

9.8.5 Test Results

N/A

Note: This device supports battery power only.

9.9 ANTENNA APPLICATION

9.9.1 Antenna Requirement

Standard	Requirement
FCC CRF Part15.203	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.
FCC 47 CFR Part 15.247 (b)	If transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.
RSS-Gen Section 6.8	The applicant for equipment certification shall provide a list of all antenna types that may be used with the transmitter, where applicable (i.e. for transmitters with detachable antenna), indicating the maximum permissible antenna gain (in dBi) and the required impedance for each antenna. The test report shall demonstrate the compliance of the transmitter with the limit for maximum equivalent isotropically radiated power (e.i.r.p.) specified in the applicable RSS, when the transmitter is equipped with any antenna type, selected from this list.
RSS-247 Section 5.4	If the transmitter employs an antenna system that emits multiple directional beams, but does not emit multiple directional beams simultaneously, the total output power conducted to the array or arrays that comprise the device (i.e. the sum of the power supplied to all antennas, antenna elements, staves, etc., and summed across all carriers or frequency channels) shall not exceed the applicable output power limit. However, the total conducted output power shall be reduced by 1 dB below the specified limits for each 3 dB that the directional gain of the antenna/antenna array exceeds 6 dBi. The directional antenna gain shall be computed as the sum of 10 log (number of array elements or staves) plus the directional gain of the element or staff having the highest gain.

9.9.2 Result

PASS.

- Note:
- ☒ Antenna use a permanently attached antenna which is not replaceable.
 - ☐ Not using a standard antenna jack or electrical connector for antenna replacement
 - ☐ The antenna has to be professionally installed (please provide method of installation)

Please refer to the attached documentInternal Photos to show the antenna connector.

*** End of Report ***