



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: D-ROBOTICS HOLDING LIMITED

Address: SUITE 603, 6/F LAWS COMM PLAZA 788 CHEUNG SHA WAN RD KLN
HONG KONG

FCC ID: 2BGUG-RDKX5HM

Product Name: RDK X5H Module

Standard(s): 47 CFR Part 15, Subpart C (15.247)
ANSI C63.10-2020
KDB 558074 D01 15.247 Meas Guidance v05r02

The above device has been tested and found compliant with the requirement of the relative standards by China Certification ICT Co., Ltd (Dongguan)

Report Number: 2603R47150E-RF-00B

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Test Facility

The Test site used by China Certification ICT Co., Ltd (Dongguan) to collect test data is located on the Room 101 & 201, Building 2, 256 Pingdong Road, Dalang Town, Dongguan City, Guangdong, China.

The lab has been recognized as the FCC accredited lab under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No. : 442868, the FCC Designation No. : CN1314.

The lab has been recognized by Innovation, Science and Economic Development Canada to test to Canadian radio equipment requirements, the CAB identifier: CN0123.

Declarations

China Certification ICT Co., Ltd (Dongguan) is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with a triangle symbol “▲”. Customer model name, addresses, names, trademarks etc. are not considered data.

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Each test item follows the test standard(s) without deviation.

CONTENTS

DOCUMENT REVISION HISTORY	5
1. GENERAL INFORMATION	6
1.1 PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)	6
1.1.1 General.....	6
1.1.2 Operation Frequency Detail	6
1.1.3 Antenna Information Detail▲	6
1.1.4 Accessory Information	7
1.2 DESCRIPTION OF TEST CONFIGURATION	7
1.2.1 EUT Operation Condition	7
1.2.2 Support Equipment List and Details	7
1.2.3 Support Cable List and Details	7
1.2.4 Block Diagram of Test Setup	8
1.3 MEASUREMENT UNCERTAINTY	9
2. SUMMARY OF TEST RESULTS	10
3. REQUIREMENTS AND TEST PROCEDURES	11
3.1 AC LINE CONDUCTED EMISSIONS	11
3.1.1 Applicable Standard.....	11
3.1.2 EUT Setup.....	12
3.1.3 EMI Test Receiver Setup	12
3.1.4 Test Procedure	13
3.1.5 Corrected Amplitude & Margin Calculation.....	13
3.2 RADIATED SPURIOUS EMISSIONS	14
3.2.1 Applicable Standard.....	14
3.2.2 EUT Setup.....	14
3.2.3 EMI Test Receiver & Spectrum Analyzer Setup	15
3.2.4 Test Procedure	16
3.2.5 Corrected Amplitude & Margin Calculation.....	16
3.3 20 dB EMISSION BANDWIDTH	17
3.3.1 Applicable Standard.....	17
3.3.2 EUT Setup.....	17
3.3.3 Test Procedure	17
3.4 99% OCCUPIED BANDWIDTH	19
3.4.1 Applicable Standard.....	19
3.4.2 EUT Setup.....	19
3.4.3 Test Procedure	19
3.5 CHANNEL SEPARATION	20
3.5.1 Applicable Standard.....	20
3.5.2 EUT Setup.....	20
3.5.3 Test Procedure	20
3.6 NUMBER OF HOPPING FREQUENCY	21
3.6.1 Applicable Standard.....	21
3.6.2 EUT Setup.....	21
3.6.3 Test Procedure	21
3.7 TIME OF OCCUPANCY (DWELL TIME)	22
3.7.1 Applicable Standard.....	22
3.7.2 EUT Setup.....	22
3.7.3 Test Procedure	22

3.8 MAXIMUM CONDUCTED OUTPUT POWER	24
3.8.1 Applicable Standard.....	24
3.8.2 EUT Setup.....	24
3.8.3 Test Procedure	24
3.9 CONDUCTED SPURIOUS EMISSION.....	25
3.9.1 Applicable Standard.....	25
3.9.2 EUT Setup.....	25
3.9.3 Test Procedure	25
3.10 ANTENNA REQUIREMENT.....	27
3.10.1 Applicable Standard.....	27
3.10.2 Judgment	27
4. TEST DATA AND RESULTS	28
4.1 AC LINE CONDUCTED EMISSIONS.....	28
4.2 RADIATED SPURIOUS EMISSIONS.....	31
4.2.1 9 kHz – 1 GHz:	31
4.2.2 1 GHz – 25 GHz:	40
4.3 RF CONDUCTED DATA	70
5. EUT PHOTOGRAPHS	71
6. TEST SETUP PHOTOGRAPHS	72

DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2603R47150E-RF-00B	Original Report	2026/3/25

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	RDK X5H Module
EUT Model:	RDKX5HMD108064
Multiple Model:	RDKX5HMD104000, RDKX5HMD104016, RDKX5HMD104032, RDKX5HMD104064, RDKX5HMD108000, RDKX5HMD108016, RDKX5HMD108032
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	8.28dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	DC 5V
Sample Number:	RE&CE Test: 3HZ3-1 RF Test: 3HZ3-2
EUT Received Date:	2026/3/5
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.1.2 Operation Frequency Detail

Channel	Frequency (MHz)	Channel	Frequency (MHz)
0	2402	40	2442
1	2403	41	2443
...	...	...	...
...	...	...	...
...	...	78	2480
39	2441	/	/

Per section 15.31(m), the below frequencies were performed the test as below:

Test Channel	Frequency (MHz)
Lowest	2402
Middle	2441
Highest	2480

1.1.3 Antenna Information Detail ▲

Antenna Type	Input Impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Dipole	50	2400-2500	2.62

The Method of §15.203 Compliance either:

- ☐ Antenna was permanently attached to the unit.
☒ Antenna use a unique type of connector to attach to the EUT.
☐ Unit was professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

1.1.4 Accessory Information

Accessory Description	Manufacturer	Model	Parameters
/	/	/	/

1.2 Description of Test Configuration**1.2.1 EUT Operation Condition**

EUT Operation Mode:	The system was configured for testing in Engineering Mode, which was provided by the manufacturer. Per 15B report test, conducted emission test and radiated emissions below 1GHz test for RDKX5HMD108064 model was the worst.
Equipment Modifications:	No
EUT Exercise Software:	MobXterm.exe

The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer ▲ :

Test Modes	Packet Type	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
BDR Mode (GFSK)	DH1	Default	Default	Default
	DH3	Default	Default	Default
	DH5	Default	Default	Default
EDR Mode ($\pi/4$ -DQPSK)	2DH1	Default	Default	Default
	2DH3	Default	Default	Default
	2DH5	Default	Default	Default
EDR Mode (8DPSK)	3DH1	Default	Default	Default
	3DH3	Default	Default	Default
	3DH5	Default	Default	Default

1.2.2 Support Equipment List and Details

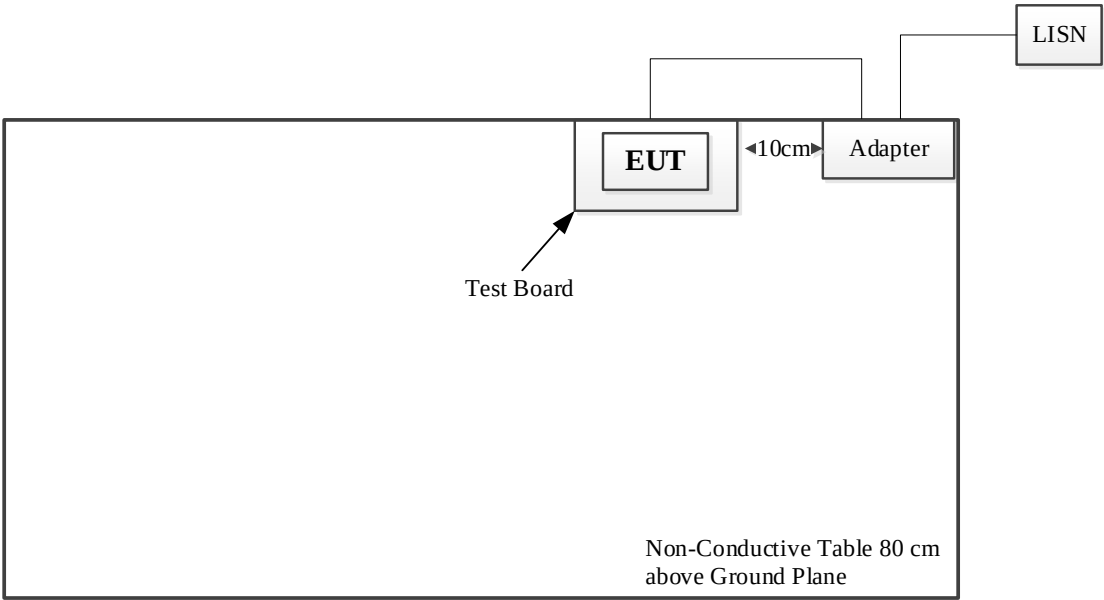
Manufacturer	Description	Model	Serial Number
D-ROBOTICS HOLDING LIMITED	Test Board	RDK X5 Module Carrier Board	Unknown
Fangxin	Adapter	FX2U-050200U	AD220930001

1.2.3 Support Cable List and Details

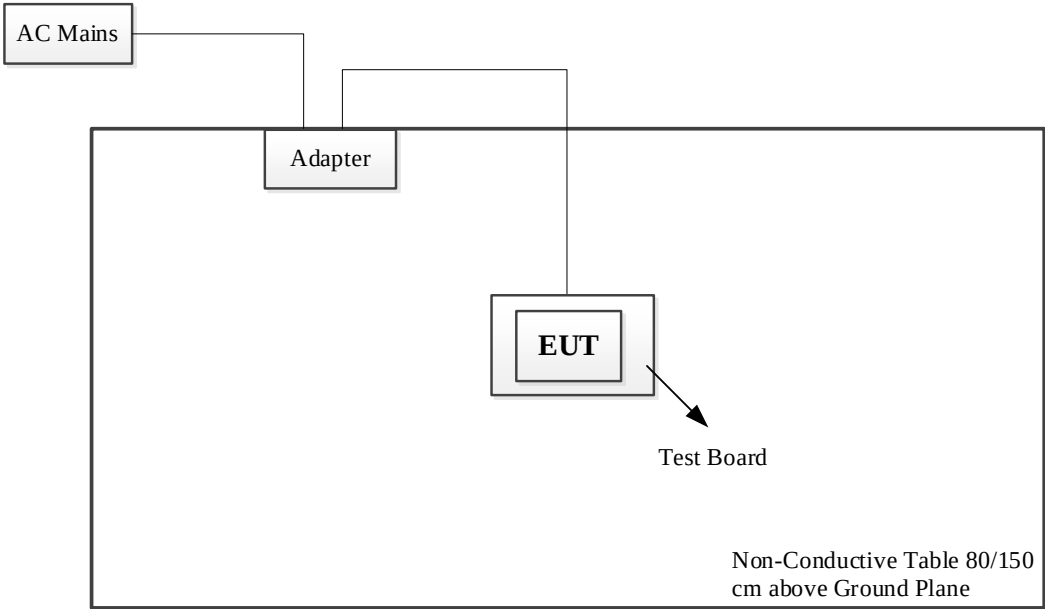
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	0.8	Adapter	Test Board

1.2.4 Block Diagram of Test Setup

AC line conducted emissions:



Spurious Emissions:



1.3 Measurement Uncertainty

Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

Parameter	Measurement Uncertainty
Occupied Channel Bandwidth	$\pm 5\%$
RF Output Power, Conducted	$\pm 0.61\text{dB}$
Power Spectral Density, Conducted	$\pm 0.61\text{ dB}$
Unwanted Emissions, Radiated	9k~30MHz: 4.12dB, 30M~200MHz: 3.89 dB, 200M~1GHz: 5.09 dB, 1G~6GHz: 5.12 dB, 6G~18GHz: 5.73 dB, 18G~26.5G:5.47 dB, 26.5G~40G:5.63 dB
Unwanted Emissions, Conducted	$\pm 1.26\text{ dB}$
Temperature	$\pm 1^\circ\text{C}$
Humidity	$\pm 5\%$
DC And Low Frequency Voltages	$\pm 0.4\%$
Duty Cycle	1%
AC Power Lines Conducted Emission	2.8 dB (150 kHz to 30 MHz)

2. SUMMARY OF TEST RESULTS

FCC Rules	Description of Test	Result
FCC §15.203	Antenna Requirement	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.209, §15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.247(a)(1)	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii)	Number of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii)	Time of Occupancy (dwell time)	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	Conducted Spurious Emission	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC §15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, 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 or frequencies, 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 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

Frequency of emission (MHz)	Conducted limit (dB μ V)	
	Quasi-peak	Average
0.15-0.5	66 to 56*	56 to 46*
0.5-5	56	46
5-30	60	50

*Decreases with the logarithm of the frequency.

(b) The limit shown in paragraph (a) of this section shall not apply to carrier current systems operating as intentional radiators on frequencies below 30 MHz. In lieu thereof, these carrier current systems shall be subject to the following standards:

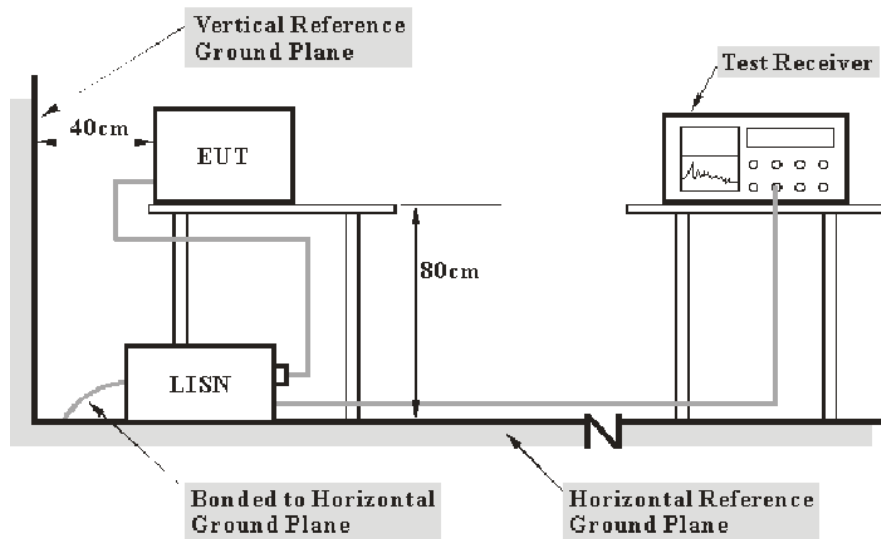
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μ V within the frequency band 535-1705 kHz, as measured using a 50 μ H/50 ohms LISN.

(3) Carrier current systems operating below 30 MHz are also subject to the radiated emission limits in §15.205, §15.209, §15.221, §15.223, or §15.227, as appropriate.

(c) Measurements to demonstrate compliance with the conducted limits are not required for devices which only employ battery power for operation and which do not operate from the AC power lines or contain provisions for operation while connected to the AC power lines. Devices that include, or make provisions for, the use of battery chargers which permit operating while charging, AC adapters or battery eliminators or that connect to the AC power lines indirectly, obtaining their power through another device which is connected to the AC power lines, shall be tested to demonstrate compliance with the conducted limits.

3.1.2 EUT Setup



Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The setup of EUT is according with per ANSI C63.10-2020 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10cm.

3.1.3 EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

Frequency Range	IF B/W
150 kHz – 30 MHz	9 kHz

3.1.4 Test Procedure

The frequency and amplitude of the six highest ac power-line conducted emissions relative to the limit, measured over all the current-carrying conductors of the EUT power cords, and the operating frequency or frequency to which the EUT is tuned (if appropriate), should be reported, unless such emissions are more than 20 dB below the limit. AC power-line conducted emissions measurements are to be separately carried out only on each of the phase (“hot”) line(s) and (if used) on the neutral line(s), but not on the ground [protective earth] line(s). If less than six emission frequencies are within 20 dB of the limit, then the noise level of the measuring instrument at representative frequencies should be reported. The specific conductor of the power-line cord for each of the reported emissions should be identified. Measure the six highest emissions with respect to the limit on each current-carrying conductor of each power cord associated with the EUT (but not the power cords of associated or peripheral equipment that are part of the test configuration). Then, report the six highest emissions with respect to the limit from among all the measurements identifying the frequency and specific current-carrying conductor identified with the emission. The six highest emissions should be reported for each of the current-carrying conductors, or the six highest emissions may be reported over all the current-carrying conductors.

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor=attenuation caused by cable loss + voltage division factor of AMN

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

3.2 Radiated Spurious Emissions

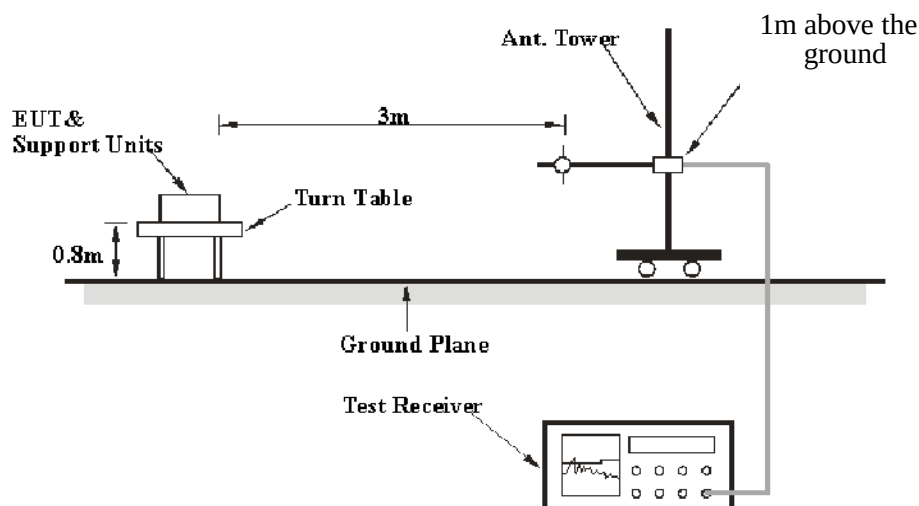
3.2.1 Applicable Standard

FCC §15.247 (d);

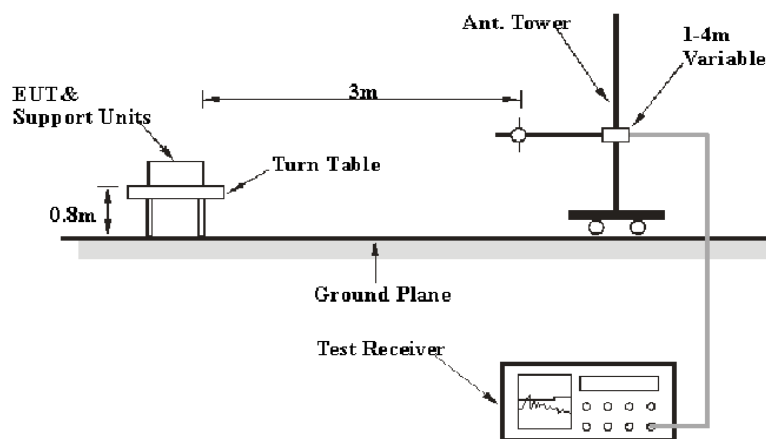
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

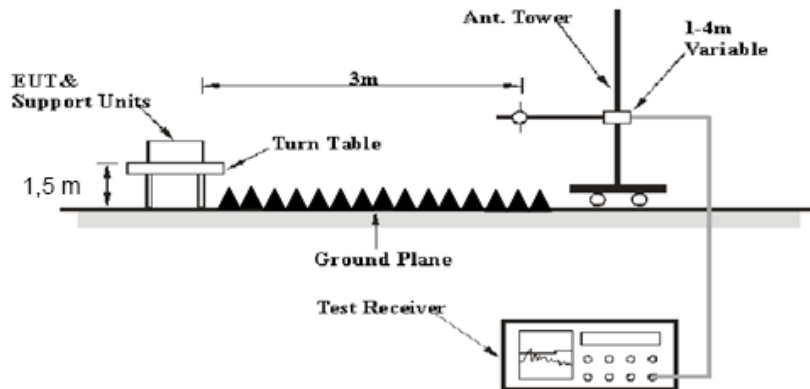
3.2.2 EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2020. The specification used was the FCC 15.209, and FCC 15.247 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40cm long in the middle.

For 9kHz-30MHz test, the lowest height of the magnetic antenna shall be 1 m above the ground and three antenna orientations (parallel, perpendicular, and ground-parallel) shall be measured.

3.2.3 EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 9 kHz to 25 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

Frequency Range	RBW	Video B/W	IF B/W	Detector	Measurement
9 kHz – 150 kHz	200 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak/ Average	QP/AV
150 kHz – 30 MHz	9 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak/ Average	QP/AV
30MHz – 1000 MHz	120 kHz	500 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

1GHz – 25GHz:

Pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	Peak
AV	1MHz	5 kHz	Peak

Final measurement for emission identified during the pre-scan:

Measurement	RBW	Video B/W	Detector
PK	1MHz	3 MHz	Peak
AV	1MHz	10 Hz	Peak

If the maximized peak measured value is under the QP/Average limit by more than 6dB, then it is unnecessary to perform an QP/Average measurement.

The spurious emissions which below the limit more than 20dB was not be recorded.

3.2.4 Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 9 kHz-1 GHz except 9–90 kHz, 110–490 kHz, employing an average detector, peak and Average detection modes for frequencies above 1 GHz.

All emissions under the average limit and under the noise floor have not recorded in the report.

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor= Antenna Factor + Cable Loss- Amplifier Gain

The “**Margin**” column of the following data tables indicates the degree of compliance within the applicable limit. The equation for margin calculation is as follows:

Margin = Limit – Result

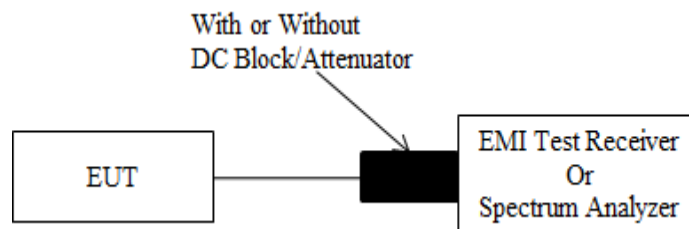
3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. 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.

3.3.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.3.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.2

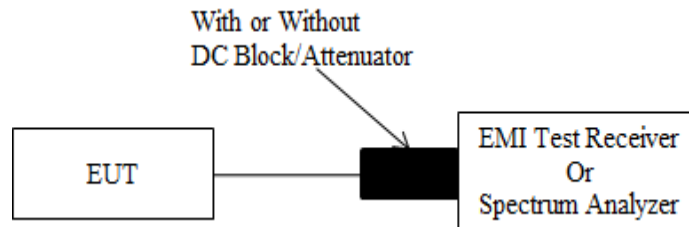
- The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be at least three times RBW, unless otherwise specified by the applicable requirement.
- Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- Steps a) through c) might require iteration to adjust within the specified tolerances.
- The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- Set detection mode to peak and trace mode to max-hold.
- Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).

- h) Determine the “-xx dB down amplitude” using [(reference value) - xx]. Alternatively, this calculation may be made by using the marker-delta function of the instrument.
- i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).
- j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The dBc bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.
- k) The dBc bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

3.4 99% Occupied Bandwidth

3.4.1 Applicable Standard

3.4.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.4.3 Test Procedure

According to ANSI C63.10-2020 Section 6.9.3

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers are each equal to 0.5% of the total mean power of the given emission. The following procedure shall be used for measuring 99% power bandwidth:

- a) The instrument center frequency is set to the nominal EUT channel center frequency. The frequency span for the spectrum analyzer shall be between 1.5 times and 5.0 times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW, and VBW shall be at least three times the RBW, unless otherwise specified by the applicable requirement.
- c) Set the reference level of the instrument as required, keeping the signal from exceeding the maximum input mixer level for linear operation. In general, the peak of the spectral envelope shall be more than $[10 \log (OBW/RBW)]$ below the reference level. Specific guidance is given in 4.1.6.2.
- d) Step a) through step c) might require iteration to adjust within the specified range.
- e) Video averaging is not permitted. Where practical, a sample detection and single sweep mode shall be used. Otherwise, peak detection and max-hold mode (until the trace stabilizes) shall be used.
- f) Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- g) If the instrument does not have a 99% power bandwidth function, then the trace data points are recovered and directly summed in linear power terms. The recovered amplitude data points, beginning at the lowest frequency, are placed in a running sum until 0.5% of the total is reached; that frequency is recorded as the lower frequency. The process is repeated until 99.5% of the total is reached; that frequency is recorded as the upper frequency. The 99% power bandwidth is the difference between these two frequencies.
- h) The occupied bandwidth shall be reported by providing spectral plot(s) of the measuring instrument display; the plot axes and the scale units per division shall be clearly labeled. Tabular data may be reported in addition to the plot(s).

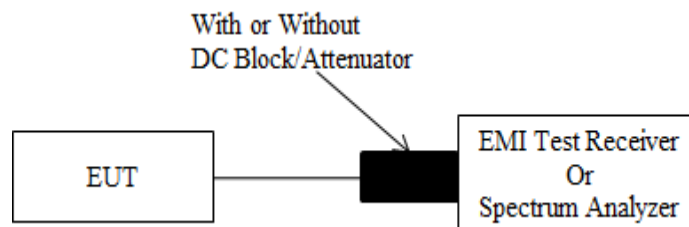
3.5 Channel Separation

3.5.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. 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.

3.5.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.5.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.2

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

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow the trace to stabilize.

Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Compliance of an EUT with the appropriate regulatory limit shall be determined. A spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the carrier separation need only be measured for one of those modulation schemes or data rates.

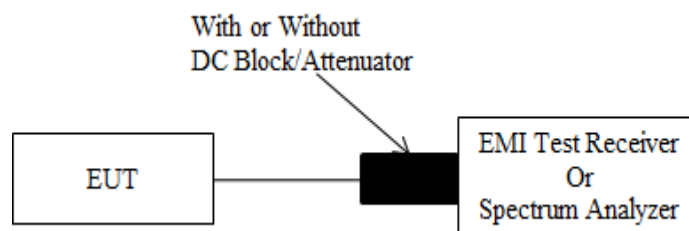
3.6 Number Of Hopping Frequency

3.6.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

Frequency hopping systems in the 2400–2483.5 MHz band shall use at least 15 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.

3.6.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.6.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.3

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

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it could be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) 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.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow the trace to stabilize.

It might prove necessary to break the span up into subranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A spectral plot of the data shall be included in the test report.

Where the device shares the same channel plan (carrier frequencies and number of channels) across multiple data rates or modulation schemes then the number of channels need only be measured for one of those modulation schemes or data rates.

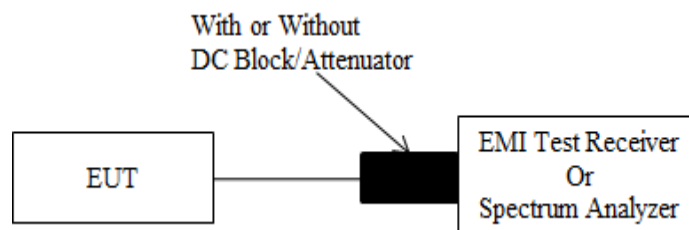
3.7 Time Of Occupancy (Dwell Time)

3.7.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

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

3.7.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.7.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.4

The EUT shall have its hopping function enabled. Use the following spectrum analyzer settings to determine the dwell time per hop:

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected transmission time per hop.
- c) Sweep time: Set so that the start of the first transmission and end of the last transmission for the hop are clearly captured. Setting the sweep time to be slightly longer than the hopping period per channel (hopping period = $1/\text{hopping rate}$) should achieve this.
- d) Use a video trigger, where possible with a trigger delay, so that the start of the transmission is clearly observed. The trigger level might need adjustment to reduce the chance of triggering when the system hops on an adjacent channel.
- e) Detector function: Peak.
- f) Trace: Clear-write, single sweep.
- g) Place markers at the start of the first transmission on the channel and at the end of the last transmission. The dwell time per hop is the time between these two markers.

To determine the number of hops on a channel in the regulatory observation period repeat the measurement using a longer sweep time. When the device uses a single hopping sequence the period of measurement should be sufficient to capture at least 2 hops. When the device uses a dynamic hopping sequence, or the sequence varies, the period of measurement may need to capture multiple hops to better determine the average time of occupancy. Count the number of hops on the channel across the sweep time. The average number of hops on the same channel within the regulatory observation period is calculated from the number of hops on the channel divided by the spectrum analyzer sweep time multiplied by the regulatory observation period. For example, if three hops are counted with an analyzer sweep time of 500 ms and the regulatory observation period is 10 s, then the number of hops in that ten seconds is $3 / 0.5 \times 10$, or 60 hops.

The average time of occupancy is calculated by multiplying the dwell time per hop by the number of hops in the observation period. Where the device shares the same hopping algorithms (dwell time, channel selection) across multiple data rates or modulation schemes then the time of occupancy need only be measured for one of those modulation schemes or data rates. If the dwell time value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in dwell time.

Spectral plots of the channel occupancy shall be included in the report.

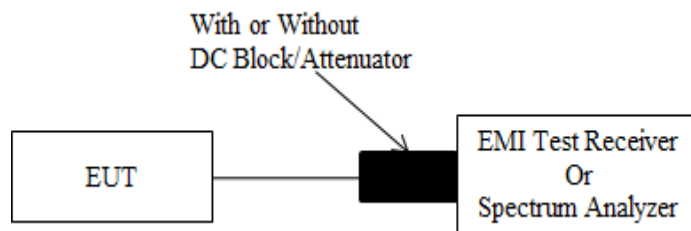
3.8 Maximum Conducted Output Power

3.8.1 Applicable Standard

FCC §15.247 (b)(1)

For frequency hopping systems operating in the 2400–2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725–5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400–2483.5 MHz band: 0.125 watts.

3.8.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.8.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation. Frequency hopping shall be disabled for this test. Use the following spectrum analyzer settings:

- a) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
- b) RBW > 20 dB bandwidth of the emission being measured.
- c) VBW $\geq$ RBW.
- d) Sweep: No faster than coupled (auto) time.
- e) Detector function: Peak.
- f) Trace: Max-hold.
- g) Allow trace to stabilize.
- h) Use the marker-to-peak function to set the marker to the peak of the emission.
- i) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- j) A spectral plot of the test results and setup description shall be included in the test report.

NOTE—A peak responding power meter may be used, where the power meter and sensor system video bandwidth is greater than the occupied bandwidth of the unlicensed wireless device, rather than a spectrum analyzer.

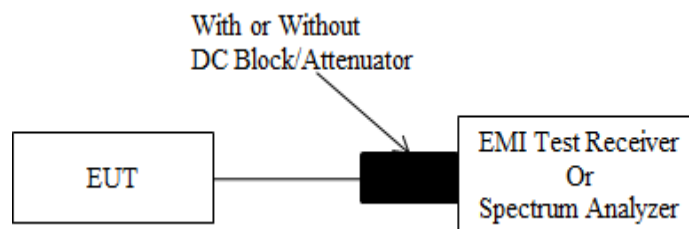
3.9 Conducted Spurious Emission

3.9.1 Applicable Standard

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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, 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)).

3.9.2 EUT Setup



A short RF cable with low cable loss connected to the EUT antenna port, the insert loss of this RF cable/attenuator was offset into the setting of test equipment.

3.9.3 Test Procedure

According to ANSI C63.10-2020 Section 7.8.7.2

Compliance with a relative limit at the band-edges (e.g., -20 dBc) shall be made on the lowest and on the highest channels with frequency hopping disabled and repeated with frequency hopping enabled. For the latter test the hopping sequence shall include the lowest and highest channels.

For measurements with the hopping disabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of the allocated band-edge.

For measurements with the hopping enabled the analyzer screen shall clearly show compliance with the requirement within 10 MHz of both of the allocated band-edges. This could require separate spectral plots for each band-edge.

- Set the center frequency and span to encompass frequency range to be measured.
 - Set the RBW = 100 kHz.
 - Set the VBW $\geq [3 \times \text{RBW}]$.
 - Detector = peak.
 - Sweep time = auto couple.
 - Trace mode = max hold.
 - Allow trace to fully stabilize.
 - Use the peak marker function to determine the maximum amplitude level.
- Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band

(excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

3.10 Antenna Requirement

3.10.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. 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.

3.10.2 Judgment

Compliant. Please refer to the Antenna Information detail in Section 1.

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	3HZ3-1	Test Date:	2026/3/19
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode, DH1 low channel)
Tester:	Lane Sun	Test Result:	Pass

Environmental Conditions:

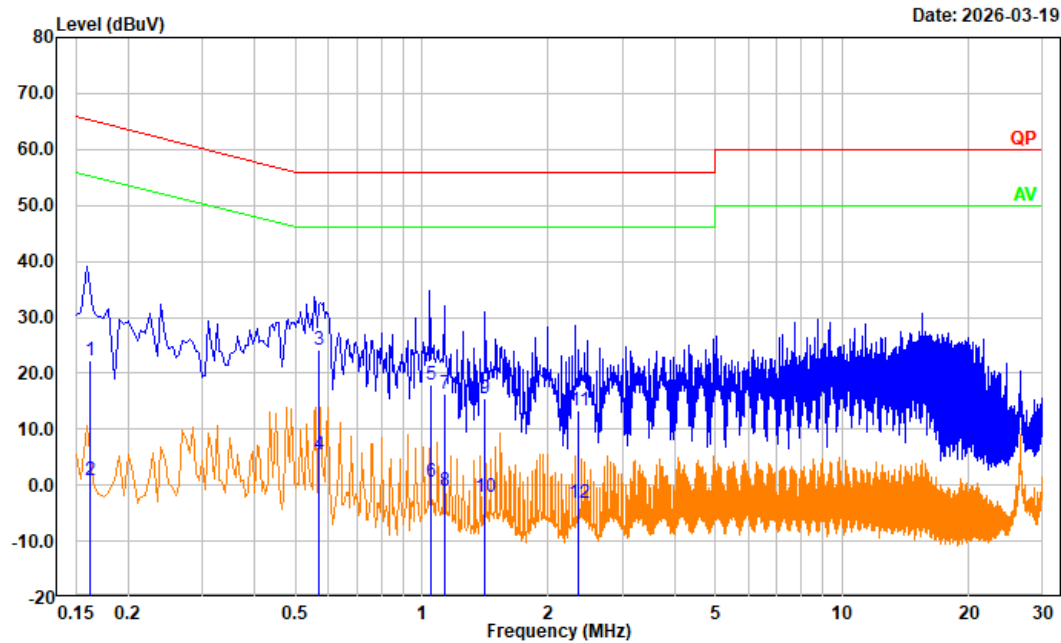
Temperature: (°C)	25.7	Relative Humidity: (%)	56	ATM Pressure: (kPa)	100.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2025/9/26	2026/9/25
R&S	EMI Test Receiver	ESR3	103104	2025/5/9	2026/5/8
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

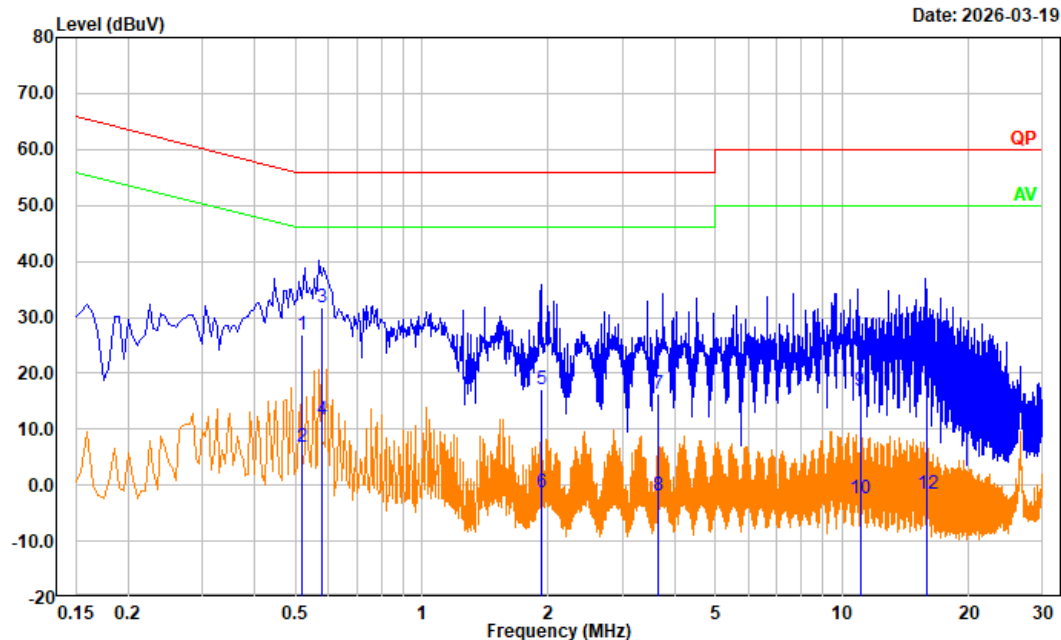
Project No.: 2603R47150E-RF
 Tester: Lane Sun
 Port: Line
 Condition: RBW:9kHz
 Test Mode: Transmitting
 Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector

1	0.162	11.78	10.41	22.19	65.37	43.18	QP
2	0.162	-9.62	10.41	0.79	55.37	54.58	Average
3	0.568	13.85	10.38	24.23	56.00	31.77	QP
4	0.568	-4.96	10.38	5.42	46.00	40.58	Average
5	1.047	7.53	10.50	18.03	56.00	37.97	QP
6	1.047	-9.89	10.50	0.61	46.00	45.39	Average
7	1.134	5.94	10.45	16.39	56.00	39.61	QP
8	1.134	-11.36	10.45	-0.91	46.00	46.91	Average
9	1.415	5.25	10.31	15.56	56.00	40.44	QP
10	1.415	-12.44	10.31	-2.13	46.00	48.13	Average
11	2.362	3.17	10.05	13.22	56.00	42.78	QP
12	2.362	-13.15	10.05	-3.10	46.00	49.10	Average

Project No.: 2603R47150E-RF
 Tester: Lane Sun
 Port: neutral
 Condition: RBW:9kHz
 Test Mode: Transmitting
 Note:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Result (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.517	16.79	10.12	26.91	56.00	29.09	QP
2	0.517	-3.28	10.12	6.84	46.00	39.16	Average
3	0.580	21.73	10.15	31.88	56.00	24.12	QP
4	0.580	1.61	10.15	11.76	46.00	34.24	Average
5	1.921	6.69	10.51	17.20	56.00	38.80	QP
6	1.921	-11.80	10.51	-1.29	46.00	47.29	Average
7	3.654	5.82	10.37	16.19	56.00	39.81	QP
8	3.654	-12.09	10.37	-1.72	46.00	47.72	Average
9	11.036	6.85	10.07	16.92	60.00	43.08	QP
10	11.036	-12.49	10.07	-2.42	50.00	52.42	Average
11	15.961	8.90	10.04	18.94	60.00	41.06	QP
12	15.961	-11.54	10.04	-1.50	50.00	51.50	Average

4.2 Radiated Spurious Emissions

4.2.1 9 kHz – 1 GHz:

Sample Number:	3HZ3-1	Test Date:	2026/3/18-2026/3/19
Test Site:	966-1	Test Mode:	Transmitting (maximum output power mode, DH1 low channel)
Tester:	Jin He	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	23.9-24.2	Relative Humidity: (%)	54-61	ATM Pressure: (kPa)	100.8-101
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Test Equipment List and Details:

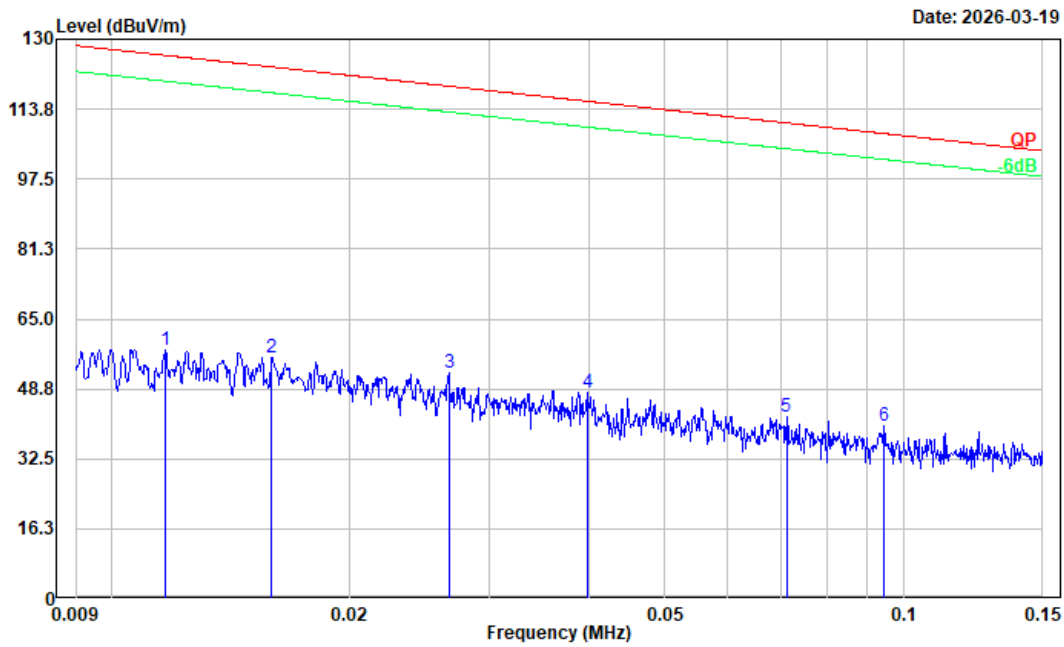
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
GLOBAL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/11/10	2026/11/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/11/10	2026/11/9
R&S	EMI Test Receiver	ESR3	102724	2026/2/27	2027/2/26
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2025/11/10	2026/11/9
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2025/11/10	2026/11/9
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2025/6/4	2026/6/3
Sonoma	Amplifier	310N	186165	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

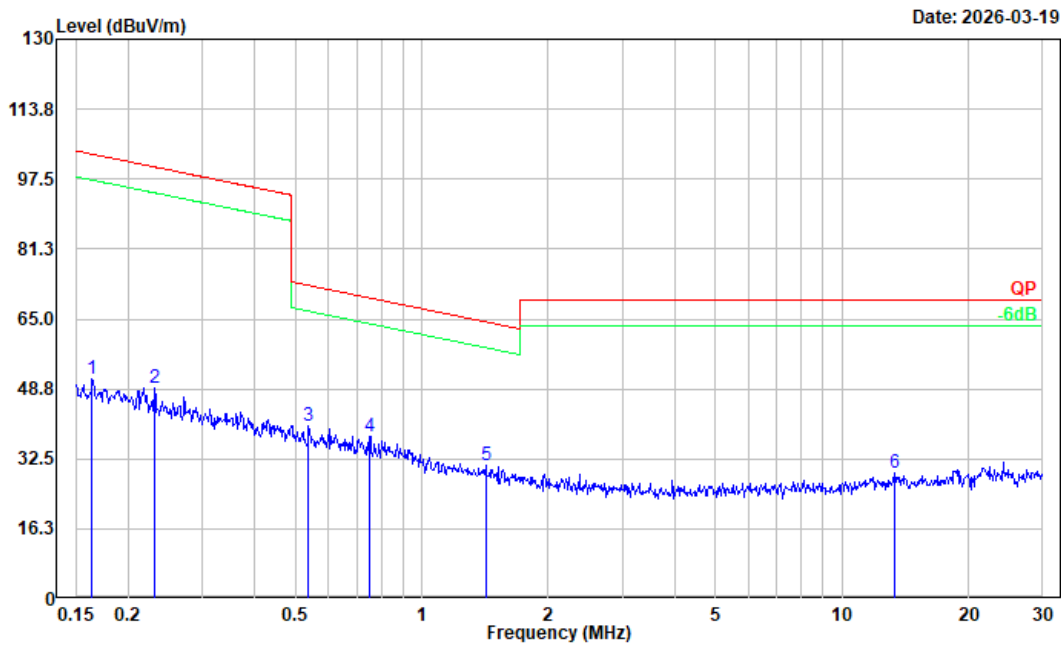
After pre-scan in the X, Y and Z axes of orientation, the worst case (Z axis) is refer to plots.

Project No.: 2603R47150E-RF
 Tester: Jin He
 Condition: RBW:0.2 kHz VBW:1 kHz
 Polarization: Parallel
 Note: Transmitting 15.247_BT



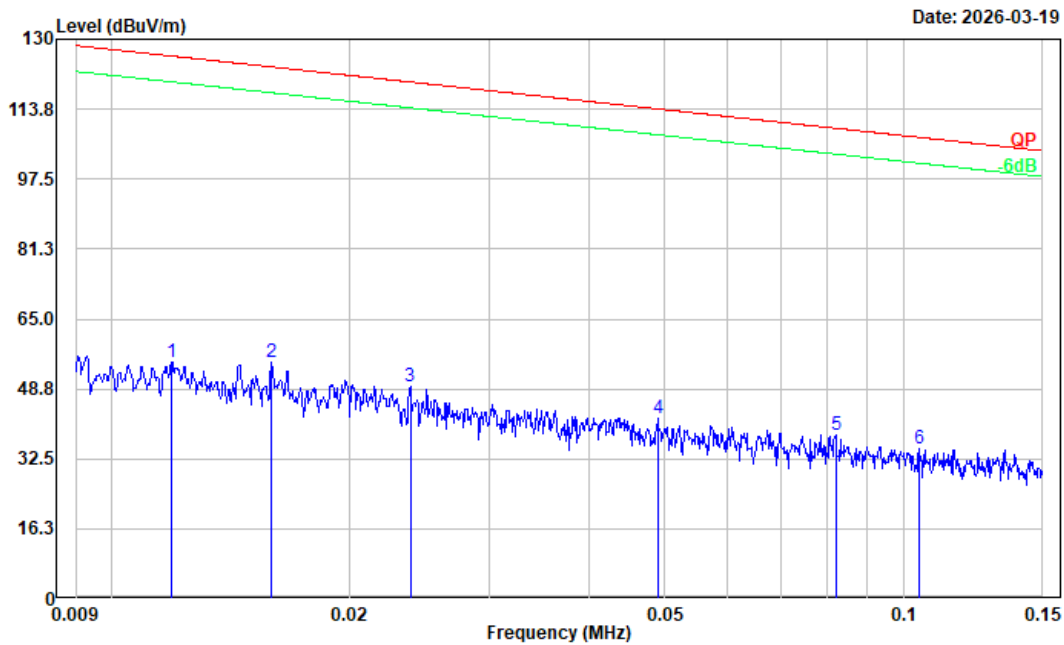
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.012	24.21	33.52	57.73	126.25	68.52	Peak
2	0.016	24.57	31.53	56.10	123.56	67.46	Peak
3	0.027	25.85	26.50	52.35	119.09	66.74	Peak
4	0.040	25.27	22.82	48.09	115.59	67.50	Peak
5	0.071	24.76	17.53	42.29	110.56	68.27	Peak
6	0.095	25.22	14.86	40.08	108.09	68.01	Peak

Project No.: 2603R47150E-RF
 Tester: Jin He
 Condition: RBW:9 kHz VBW:30 kHz
 Polarization: Parallel
 Note: Transmitting 15.247_BT



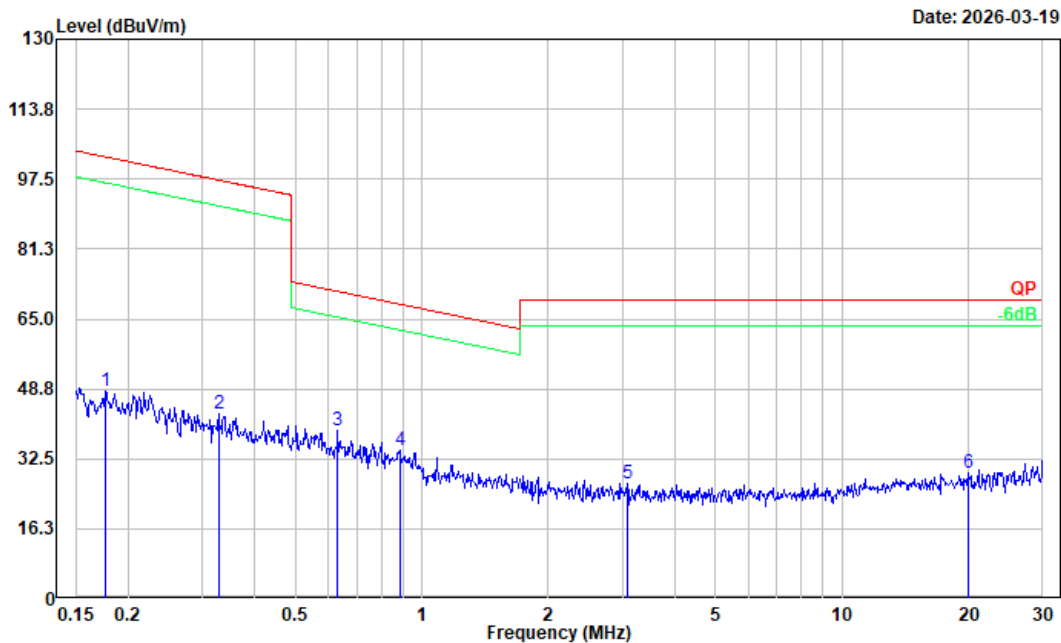
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.164	39.60	11.36	50.96	103.30	52.34	Peak
2	0.232	40.92	8.22	49.14	100.31	51.17	Peak
3	0.538	39.87	0.45	40.32	72.97	32.65	Peak
4	0.751	39.72	-1.87	37.85	70.01	32.16	Peak
5	1.418	36.71	-5.75	30.96	64.37	33.41	Peak
6	13.337	37.21	-7.94	29.27	69.54	40.27	Peak

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Perpendicular
Note: Transmitting 15.247_BT



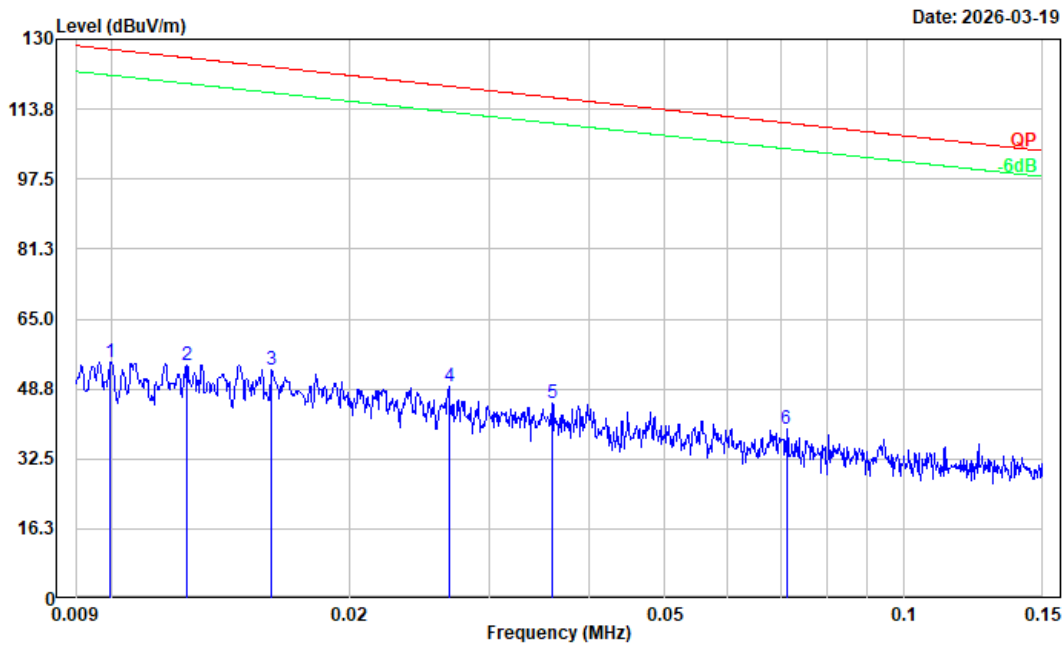
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.012	22.08	32.75	54.83	126.10	71.27	Peak
2	0.016	24.13	30.66	54.79	123.56	68.77	Peak
3	0.024	22.60	26.61	49.21	120.06	70.85	Peak
4	0.049	22.34	19.65	41.99	113.81	71.82	Peak
5	0.082	23.10	15.06	38.16	109.31	71.15	Peak
6	0.105	21.58	13.32	34.90	107.19	72.29	Peak

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Perpendicular
Note: Transmitting 15.247_BT



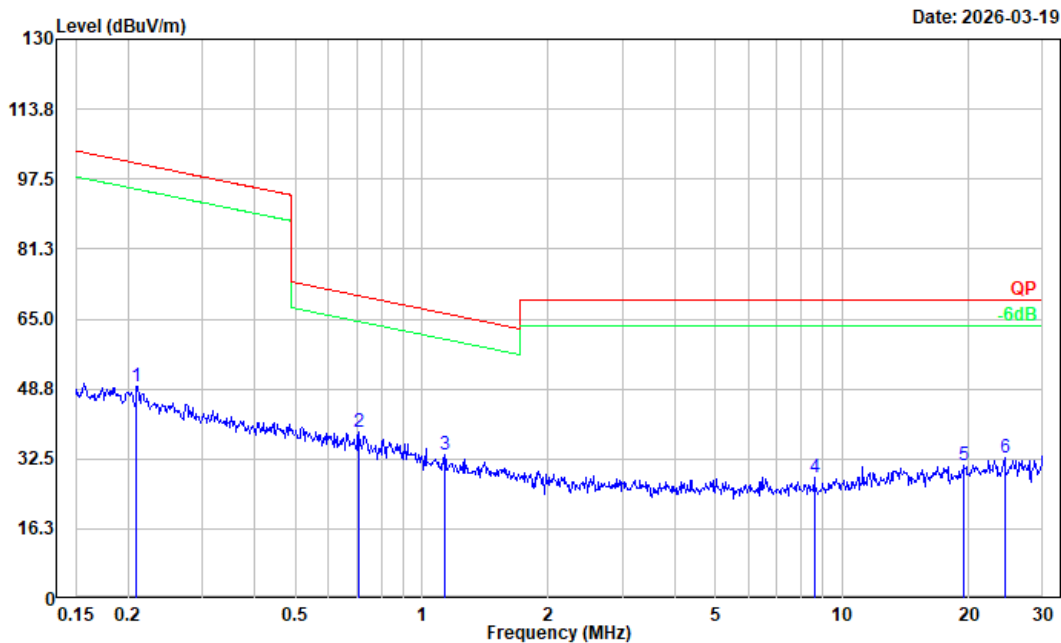
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.177	38.12	10.05	48.17	102.66	54.49	Peak
2	0.329	39.20	3.81	43.01	97.27	54.26	Peak
3	0.630	40.76	-1.55	39.21	71.56	32.35	Peak
4	0.885	38.72	-4.34	34.38	68.56	34.18	Peak
5	3.074	36.04	-9.43	26.61	69.54	42.93	Peak
6	19.950	38.74	-9.33	29.41	69.54	40.13	Peak

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:0.2 kHz VBW:1 kHz
Polarization: Ground-Parallel
Note: Transmitting 15.247_BT



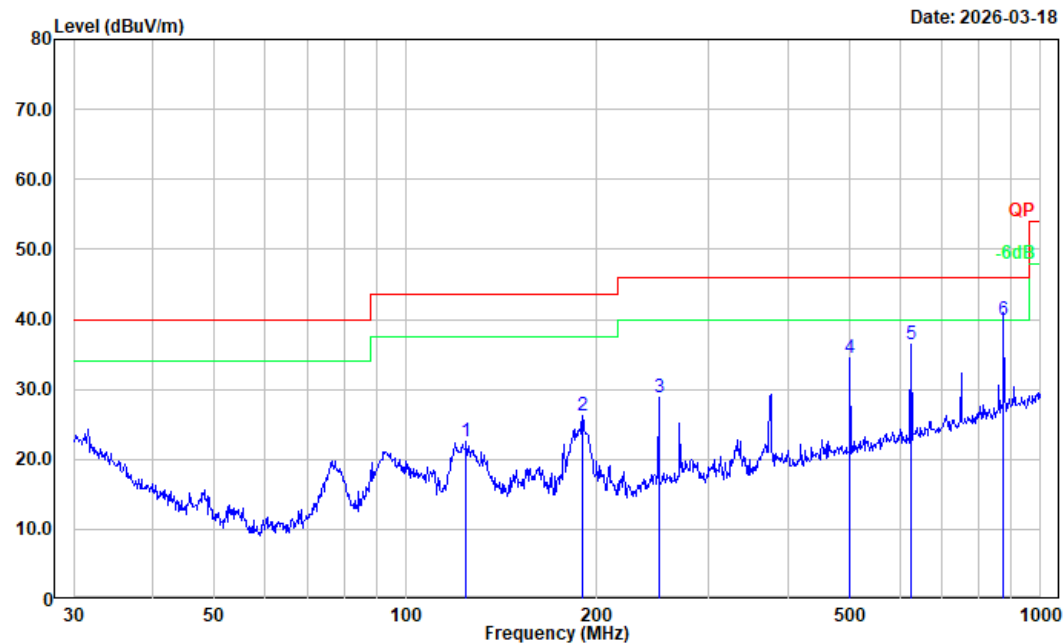
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.010	20.54	34.37	54.91	127.64	72.73	Peak
2	0.012	21.24	33.17	54.41	125.71	71.30	Peak
3	0.016	21.57	31.53	53.10	123.56	70.46	Peak
4	0.027	22.85	26.50	49.35	119.09	69.74	Peak
5	0.036	21.70	23.63	45.33	116.47	71.14	Peak
6	0.071	21.76	17.53	39.29	110.56	71.27	Peak

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:9 kHz VBW:30 kHz
Polarization: Ground-Parallel
Note: Transmitting 15.247_BT



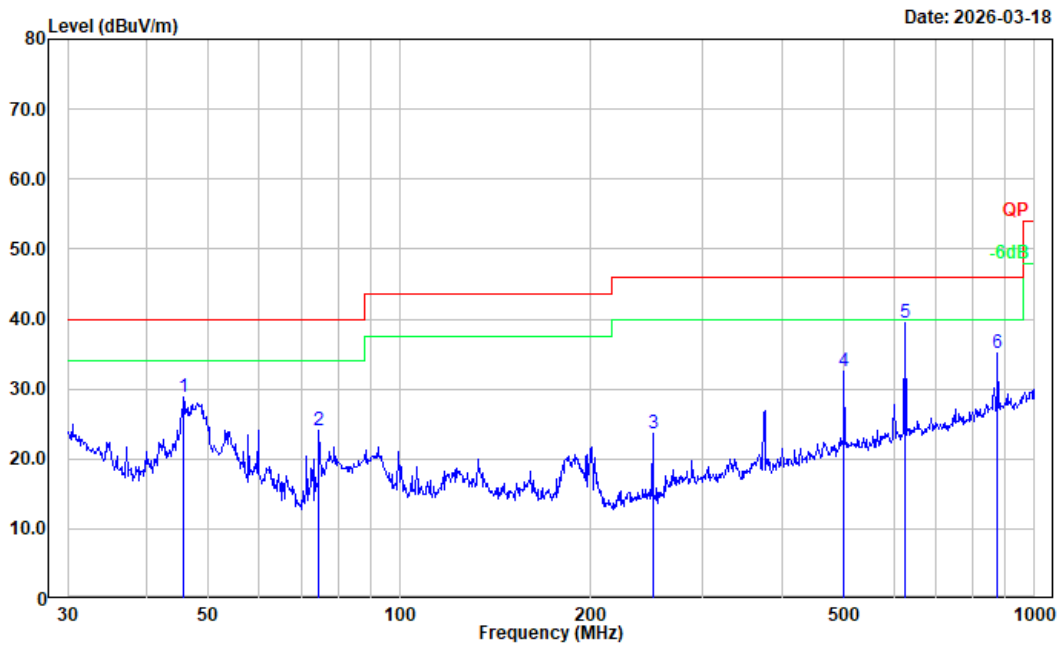
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Remark
1	0.209	40.01	9.25	49.26	101.18	51.92	Peak
2	0.708	40.21	-1.42	38.79	70.53	31.74	Peak
3	1.135	38.25	-4.89	33.36	66.35	32.99	Peak
4	8.592	37.09	-8.82	28.27	69.54	41.27	Peak
5	19.532	39.60	-8.47	31.13	69.54	38.41	Peak
6	24.400	40.92	-8.16	32.76	69.54	36.78	Peak

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: horizontal
Note: Transmitting 15.247_BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	124.569	33.34	-10.88	22.46	43.50	21.04	Peak
2	189.739	39.78	-13.58	26.20	43.50	17.30	Peak
3	250.301	41.54	-12.80	28.74	46.00	17.26	Peak
4	501.179	40.16	-5.71	34.45	46.00	11.55	Peak
5	625.078	40.60	-4.17	36.43	46.00	9.57	Peak
6	875.247	40.11	-0.21	39.90	46.00	6.10	QP

Project No.: 2603R47150E-RF
Tester: Jin He
Condition: RBW:120 kHz VBW:500 kHz
Polarization: vertical
Note: Transmitting 15.247_BT



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	45.695	43.86	-15.04	28.82	40.00	11.18	Peak
2	74.657	41.23	-17.13	24.10	40.00	15.90	Peak
3	250.301	36.52	-12.80	23.72	46.00	22.28	Peak
4	501.179	38.23	-5.71	32.52	46.00	13.48	Peak
5	625.078	43.69	-4.17	39.52	46.00	6.48	Peak
6	875.247	35.36	-0.21	35.15	46.00	10.85	Peak

4.2.2 1 GHz – 25 GHz:

Sample Number	3HZ3-1	Test Date:	2026/3/13
Test Site:	966-2	Test Mode:	Transmitting
Tester:	HuaYuan Miao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.7	Relative Humidity: (%)	49	ATM Pressure: (kPa)	101.6
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2023/12/6	2026/12/5
R&S	Spectrum Analyzer	FSV40	101591	2025/3/31	2026/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/11/10	2026/11/9
A.H	Pre-amplifier	PAM-0118P	628	2025/11/10	2026/11/9
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/11/10	2026/11/9
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2025/11/10	2026/11/9
Decentest	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2025/8/4	2026/8/3
Decentest	Filter Switch Unit	DT7220FSU	DQ77928	2025/8/4	2026/8/3

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

After pre-scan in the X, Y and Z axes of orientation, the worst case (Z axis) is below:

BDR Mode (GFSK DH5):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402				MHz			
4804.000	41.44	PK	H	4.64	46.08	74.00	27.92
4804.000	28.60	AV	H	4.64	33.24	54.00	20.76
4804.000	55.10	PK	V	4.64	59.74	74.00	14.26
4804.000	43.15	AV	V	4.64	47.79	54.00	6.21
7206.000	41.84	PK	H	9.84	51.68	74.00	22.32
7206.000	27.33	AV	H	9.84	37.17	54.00	16.83
7206.000	44.11	PK	V	9.84	53.95	74.00	20.05
7206.000	31.08	AV	V	9.84	40.92	54.00	13.08
Middle Channel: 2441				MHz			
4882.000	39.48	PK	H	4.88	44.36	74.00	29.64
4882.000	26.40	AV	H	4.88	31.28	54.00	22.72
4882.000	51.51	PK	V	4.88	56.39	74.00	17.61
4882.000	39.57	AV	V	4.88	44.45	54.00	9.55
7323.000	38.54	PK	H	10.58	49.12	74.00	24.88
7323.000	25.45	AV	H	10.58	36.03	54.00	17.97
7323.000	42.13	PK	V	10.58	52.71	74.00	21.29
7323.000	28.76	AV	V	10.58	39.34	54.00	14.66
High Channel: 2480				MHz			
4960.000	38.63	PK	H	4.87	43.50	74.00	30.50
4960.000	25.21	AV	H	4.87	30.08	54.00	23.92
4960.000	47.73	PK	V	4.87	52.60	74.00	21.40
4960.000	35.47	AV	V	4.87	40.34	54.00	13.66
7440.000	38.07	PK	H	10.60	48.67	74.00	25.33
7440.000	25.39	AV	H	10.60	35.99	54.00	18.01
7440.000	40.23	PK	V	10.60	50.83	74.00	23.17
7440.000	26.33	AV	V	10.60	36.93	54.00	17.07

EDR Mode ($\pi/4$ -DQPSK 2DH5):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel: 2402 MHz							
4804.000	46.09	PK	H	4.64	50.73	74.00	23.27
4804.000	32.01	AV	H	4.64	36.65	54.00	17.35
4804.000	46.03	PK	V	4.64	50.67	74.00	23.33
4804.000	41.26	AV	V	4.64	45.90	54.00	8.10
7206.000	40.15	PK	H	9.84	49.99	74.00	24.01
7206.000	27.07	AV	H	9.84	36.91	54.00	17.09
7206.000	40.52	PK	V	9.84	50.36	74.00	23.64
7206.000	27.71	AV	V	9.84	37.55	54.00	16.45
Middle Channel: 2441 MHz							
4882.000	38.52	PK	H	4.88	43.40	74.00	30.60
4882.000	25.03	AV	H	4.88	29.91	54.00	24.09
4882.000	37.96	PK	V	4.88	42.84	74.00	31.16
4882.000	25.10	AV	V	4.88	29.98	54.00	24.02
7323.000	38.28	PK	H	10.58	48.86	74.00	25.14
7323.000	25.60	AV	H	10.58	36.18	54.00	17.82
7323.000	39.60	PK	V	10.58	50.18	74.00	23.82
7323.000	25.65	AV	V	10.58	36.23	54.00	17.77
High Channel: 2480 MHz							
4960.000	38.25	PK	H	4.87	43.12	74.00	30.88
4960.000	25.06	AV	H	4.87	29.93	54.00	24.07
4960.000	38.21	PK	V	4.87	43.08	74.00	30.92
4960.000	25.11	AV	V	4.87	29.98	54.00	24.02
7440.000	38.27	PK	H	10.60	48.87	74.00	25.13
7440.000	25.18	AV	H	10.60	35.78	54.00	18.22
7440.000	38.27	PK	V	10.60	48.87	74.00	25.13
7440.000	25.26	AV	V	10.60	35.86	54.00	18.14

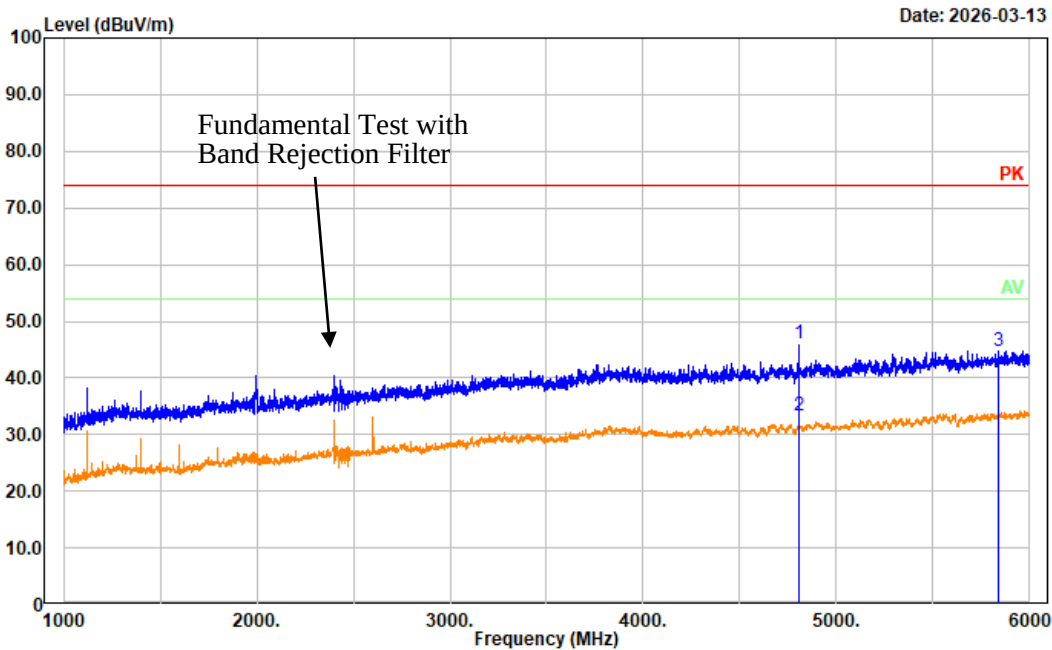
EDR Mode (8DPSK 3DH5):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	40.76	PK	H	4.64	45.40	74.00	28.60
4804.000	32.42	AV	H	4.64	37.06	54.00	16.94
4804.000	49.30	PK	V	4.64	53.94	74.00	20.06
4804.000	40.21	AV	V	4.64	44.85	54.00	9.15
7206.000	39.61	PK	H	9.84	49.45	74.00	24.55
7206.000	26.37	AV	H	9.84	36.21	54.00	17.79
7206.000	39.53	PK	V	9.84	49.37	74.00	24.63
7206.000	26.65	AV	V	9.84	36.49	54.00	17.51
Middle Channel:				2441	MHz		
4882.000	39.15	PK	H	4.88	44.03	74.00	29.97
4882.000	25.67	AV	H	4.88	30.55	54.00	23.45
4882.000	38.92	PK	V	4.88	43.80	74.00	30.20
4882.000	25.58	AV	V	4.88	30.46	54.00	23.54
7323.000	38.16	PK	H	10.58	48.74	74.00	25.26
7323.000	25.37	AV	H	10.58	35.95	54.00	18.05
7323.000	38.02	PK	V	10.58	48.60	74.00	25.40
7323.000	25.27	AV	V	10.58	35.85	54.00	18.15
High Channel:				2480	MHz		
4960.000	38.08	PK	H	4.87	42.95	74.00	31.05
4960.000	25.00	AV	H	4.87	29.87	54.00	24.13
4960.000	38.52	PK	V	4.87	43.39	74.00	30.61
4960.000	25.04	AV	V	4.87	29.91	54.00	24.09
7440.000	38.09	PK	H	10.60	48.69	74.00	25.31
7440.000	25.14	AV	H	10.60	35.74	54.00	18.26
7440.000	37.97	PK	V	10.60	48.57	74.00	25.43
7440.000	25.18	AV	V	10.60	35.78	54.00	18.22

Worst radiation spurious emissions margin test plots for each mode

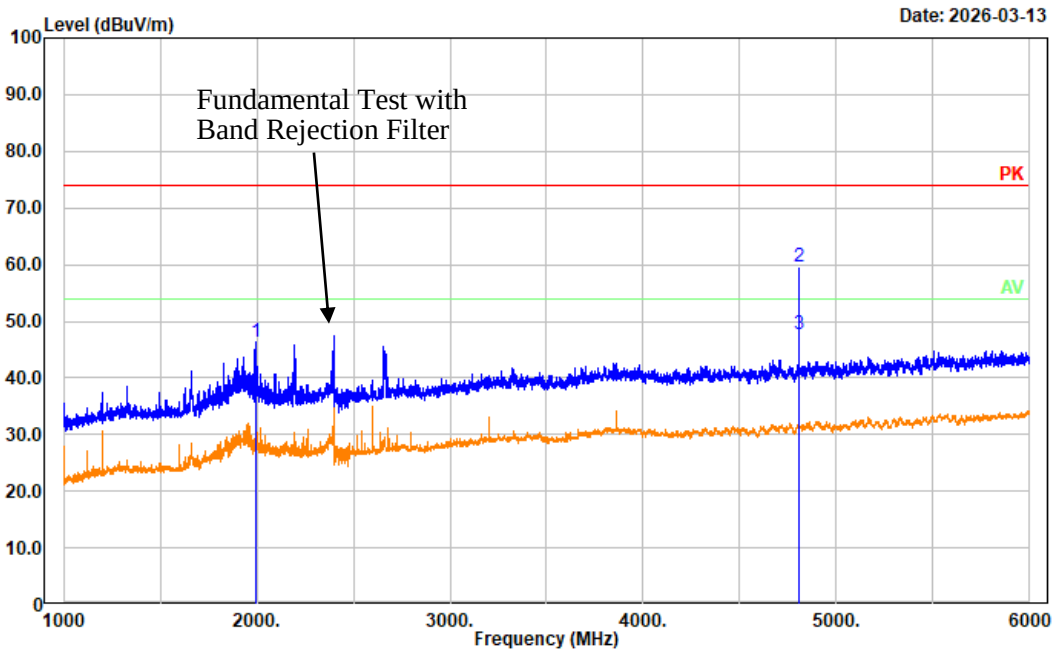
Note: for 18 – 25 GHz range, test was performed on the maximum power mode.

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: horizontal
 Note: BDR Mode GFSK Low Channel 2402 MHz



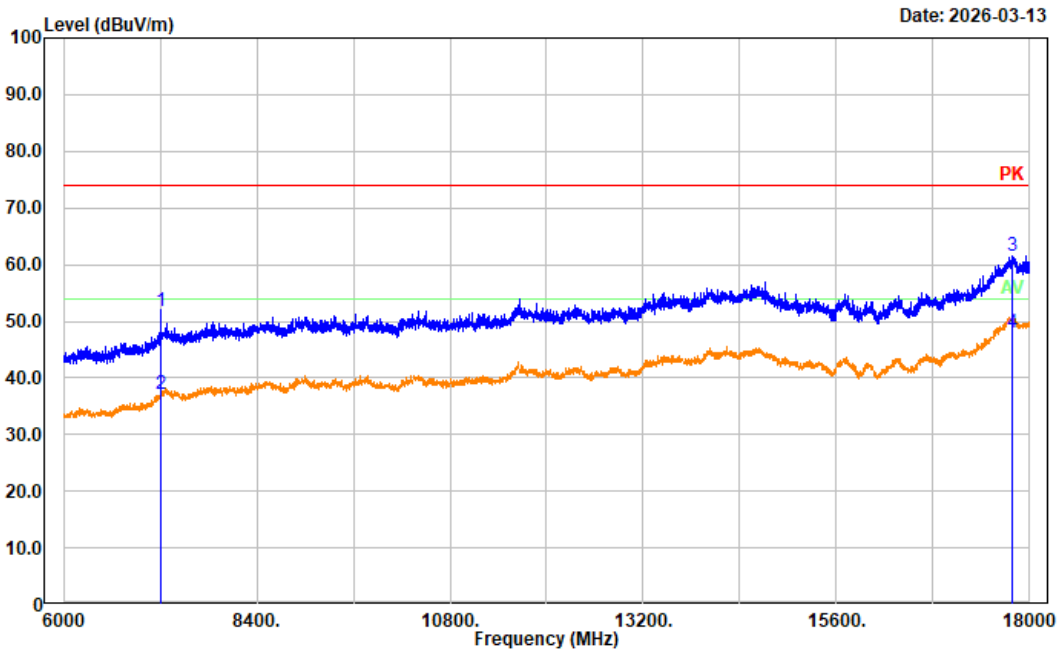
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4804.000	41.44	4.64	46.08	74.00	27.92	Peak
2	4804.000	28.60	4.64	33.24	54.00	20.76	Average
3	5836.000	37.86	6.90	44.76	74.00	29.24	Peak

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: BDR Mode GFSK Low Channel 2402 MHz



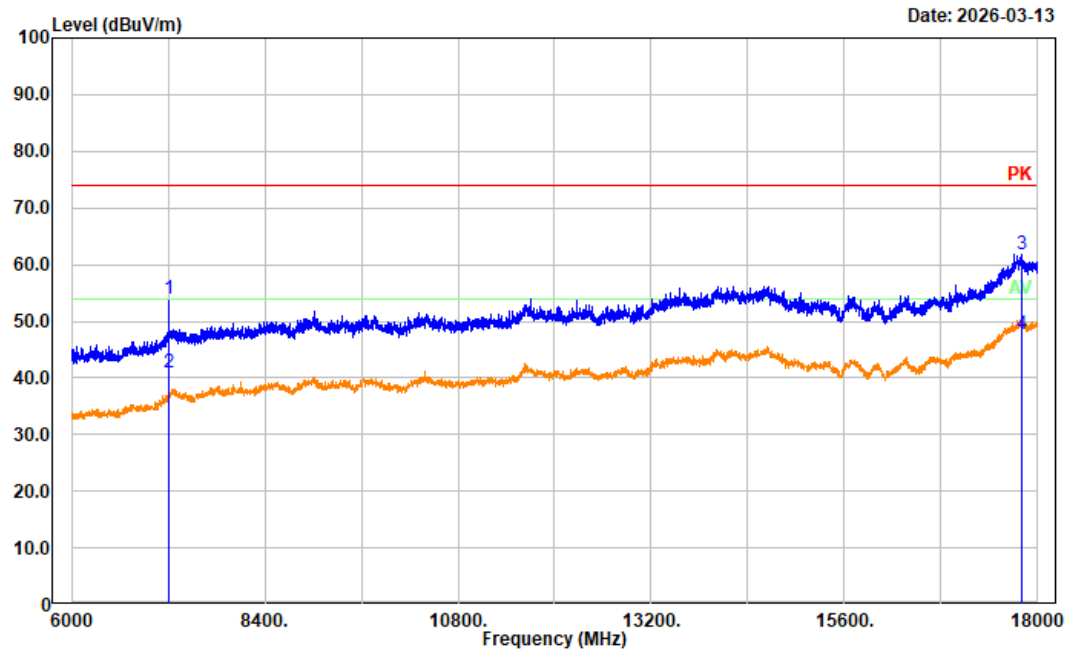
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	1998.000	49.60	-3.19	46.41	74.00	27.59	Peak
2	4804.000	55.10	4.64	59.74	74.00	14.26	Peak
3	4804.000	43.15	4.64	47.79	54.00	6.21	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: horizontal
Note: BDR Mode GFSK Low Channel 2402 MHz



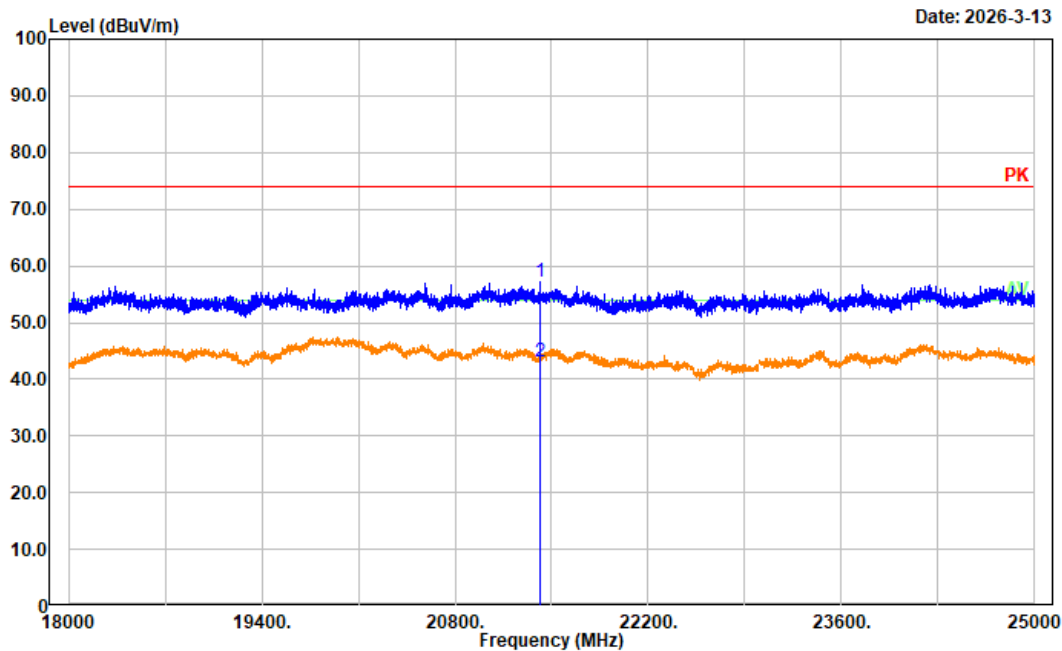
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	41.84	9.84	51.68	74.00	22.32	Peak
2	7206.000	27.33	9.84	37.17	54.00	16.83	Average
3	17788.800	40.31	21.32	61.63	74.00	12.37	Peak
4	17788.800	26.52	21.32	47.84	54.00	6.16	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: BDR Mode GFSK Low Channel 2402 MHz



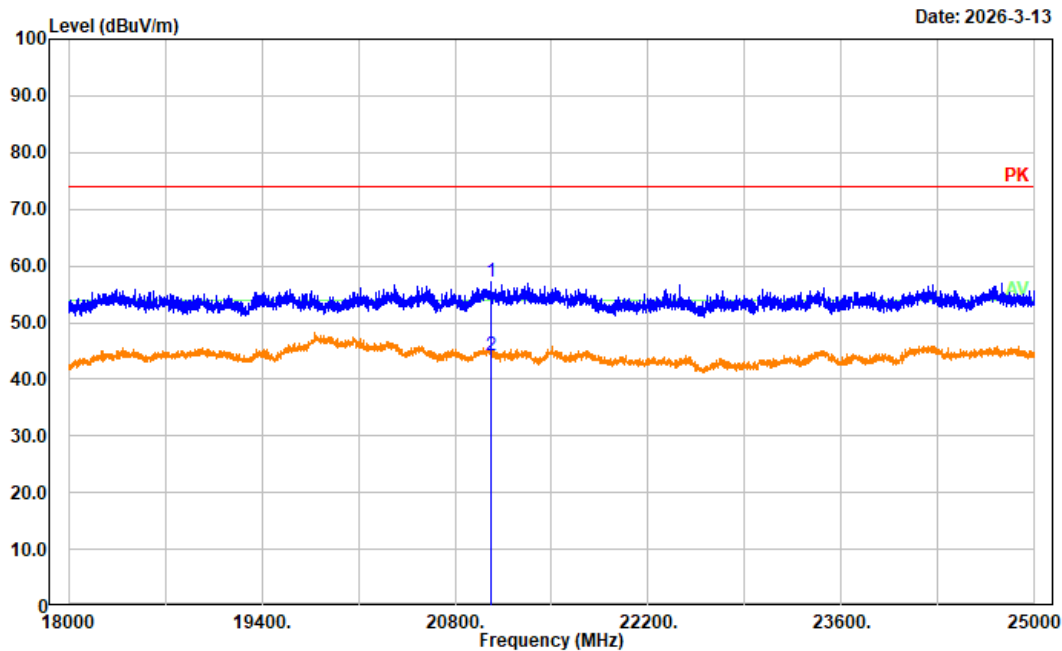
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	44.11	9.84	53.95	74.00	20.05	Peak
2	7206.000	31.08	9.84	40.92	54.00	13.08	Average
3	17800.800	40.36	21.35	61.71	74.00	12.29	Peak
4	17800.800	26.46	21.35	47.81	54.00	6.19	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Horizontal
Note: BDR Mode GFSK Low Channel 2402 MHz



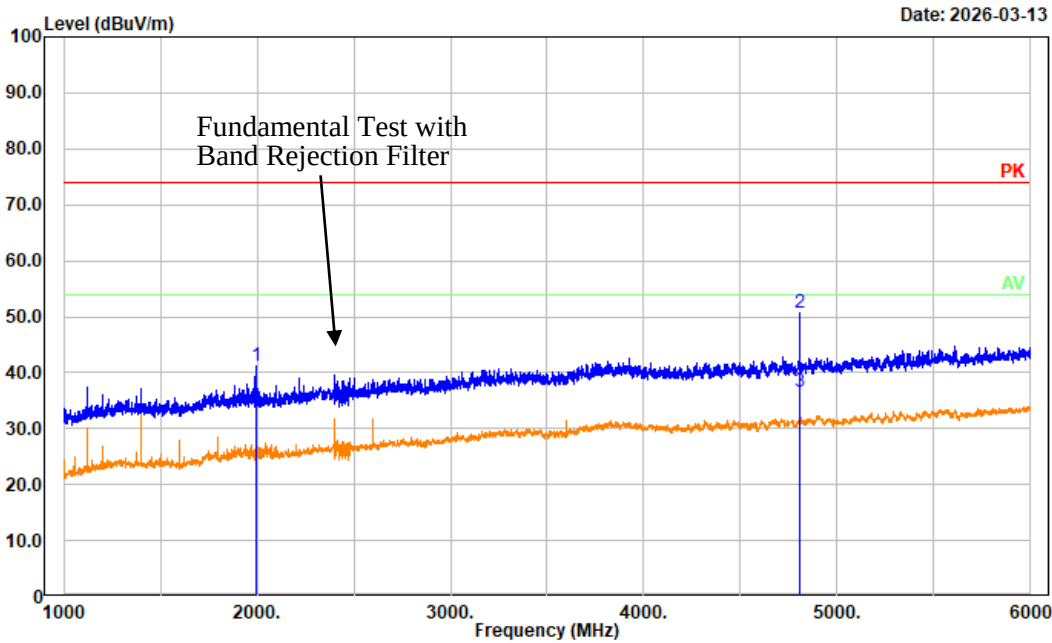
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	21416.000	52.36	4.76	57.12	74.00	16.88	Peak
2	21416.000	38.40	4.76	43.16	54.00	10.84	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Vertical
Note: BDR Mode GFSK Low Channel 2402 MHz



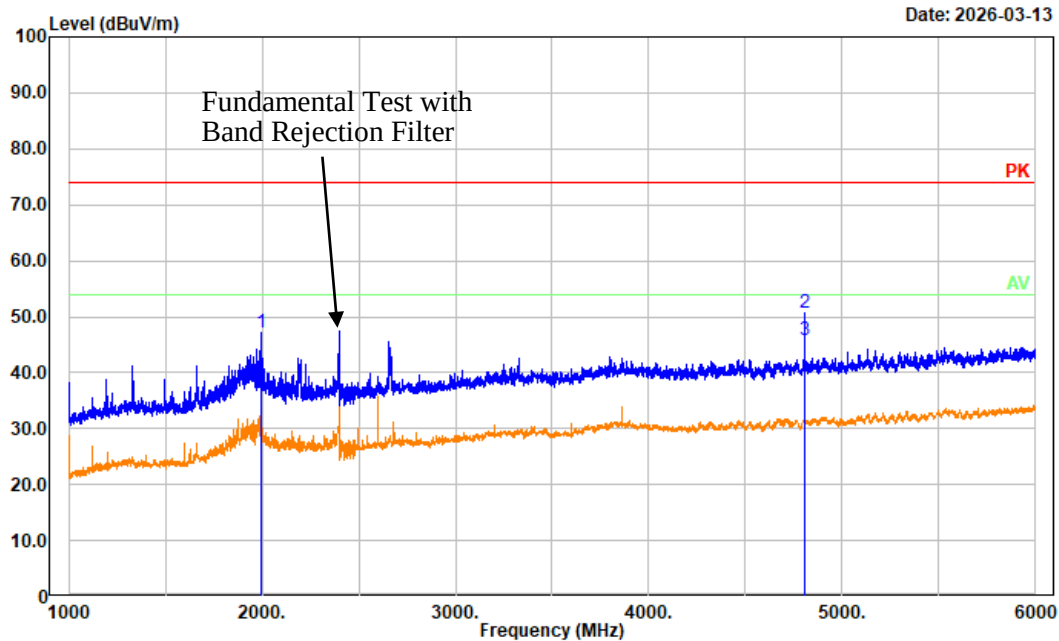
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	21064.600	50.52	6.53	57.05	74.00	16.95	Peak
2	21064.600	37.57	6.53	44.10	54.00	9.90	Average

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: horizontal
 Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



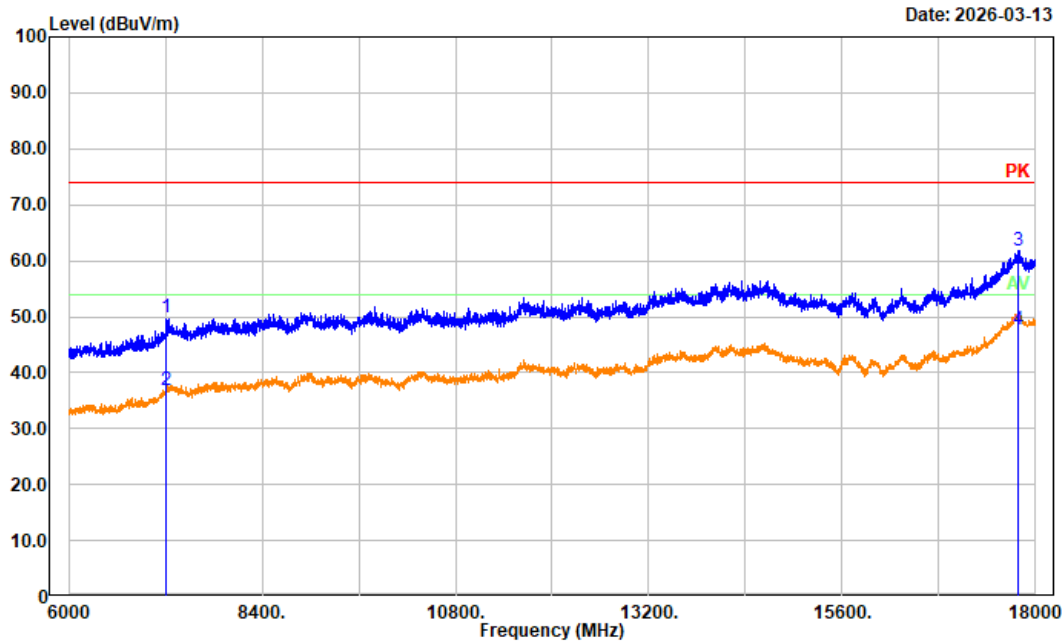
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	1994.000	44.26	-3.17	41.09	74.00	32.91	Peak
2	4804.000	46.09	4.64	50.73	74.00	23.27	Peak
3	4804.000	32.01	4.64	36.65	54.00	17.35	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



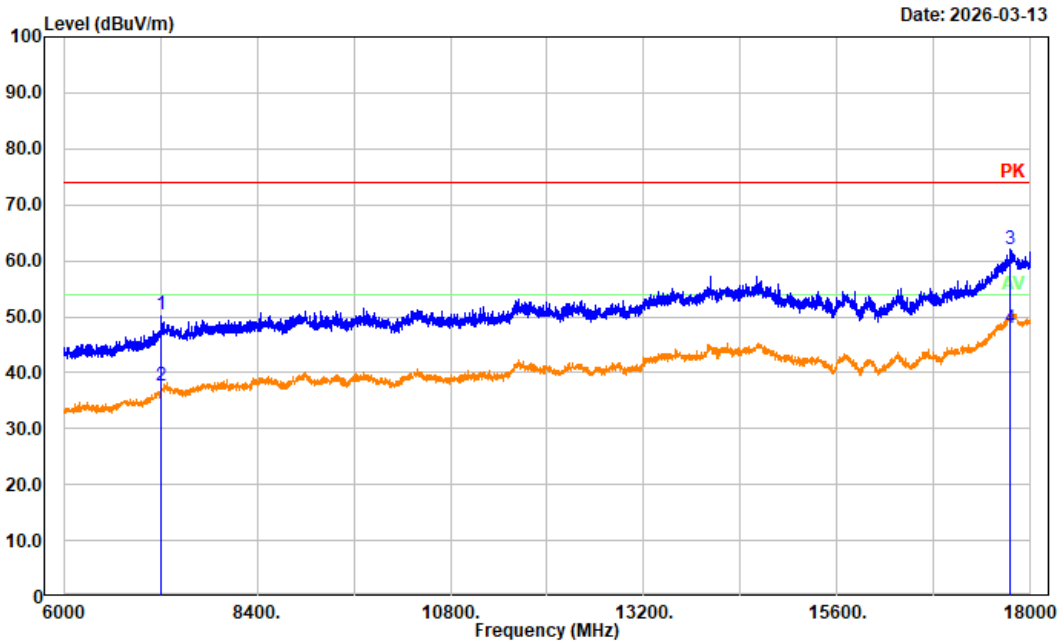
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	1998.000	50.31	-3.19	47.12	74.00	26.88	Peak
2	4804.000	46.03	4.64	50.67	74.00	23.33	Peak
3	4804.000	41.26	4.64	45.90	54.00	8.10	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: horizontal
Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



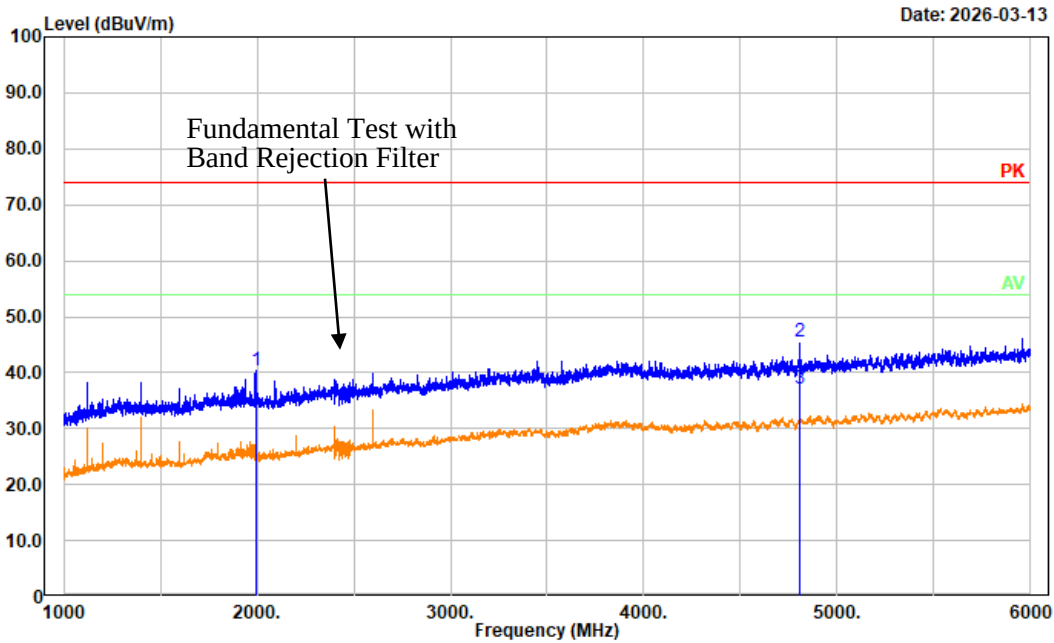
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	40.15	9.84	49.99	74.00	24.01	Peak
2	7206.000	27.07	9.84	36.91	54.00	17.09	Average
3	17776.800	40.62	21.27	61.89	74.00	12.11	Peak
4	17776.800	26.42	21.27	47.69	54.00	6.31	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



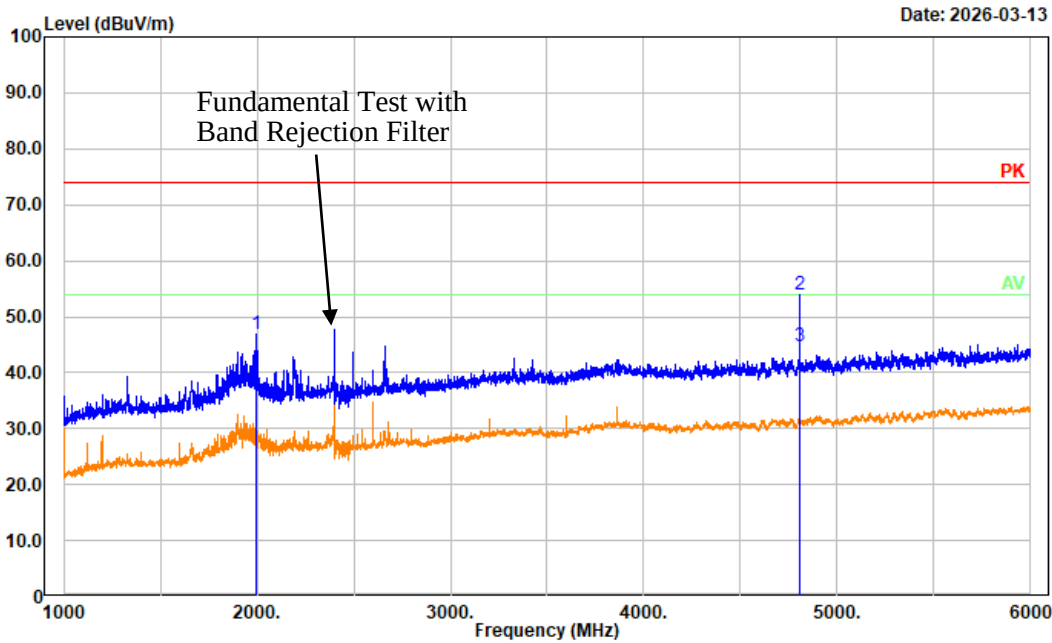
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	40.52	9.84	50.36	74.00	23.64	Peak
2	7206.000	27.71	9.84	37.55	54.00	16.45	Average
3	17740.800	40.84	21.15	61.99	74.00	12.01	Peak
4	17740.800	26.71	21.15	47.86	54.00	6.14	Average

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: horizontal
 Note: EDR Mode 8DPSK Low Channel 2402 MHz



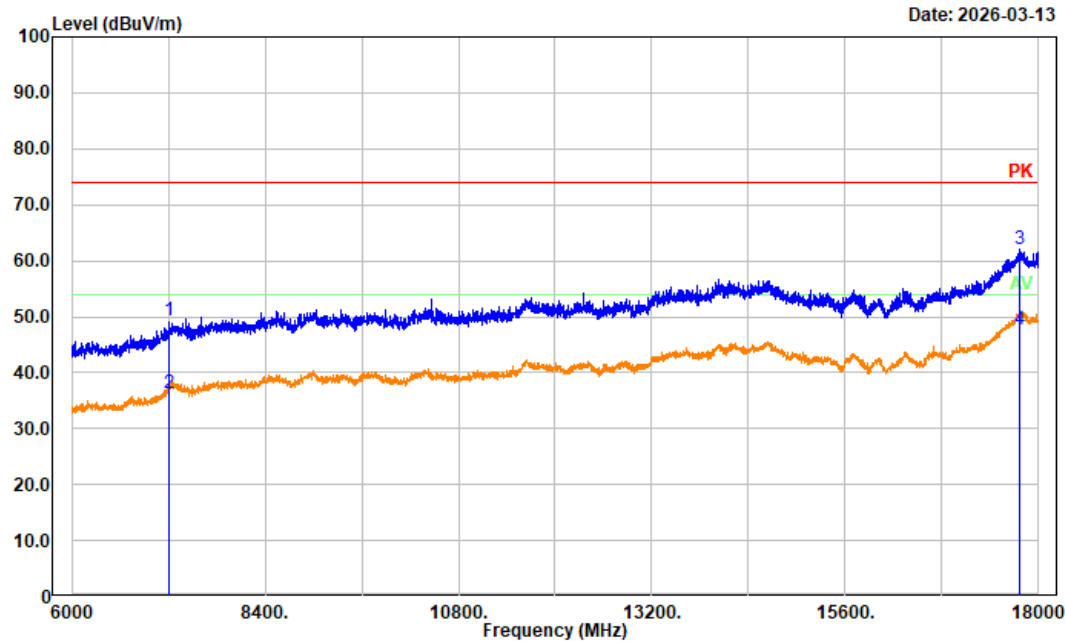
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	1993.000	43.53	-3.17	40.36	74.00	33.64	Peak
2	4804.000	40.76	4.64	45.40	74.00	28.60	Peak
3	4804.000	32.42	4.64	37.06	54.00	16.94	Average

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: vertical
 Note: EDR Mode 8DPSK Low Channel 2402 MHz



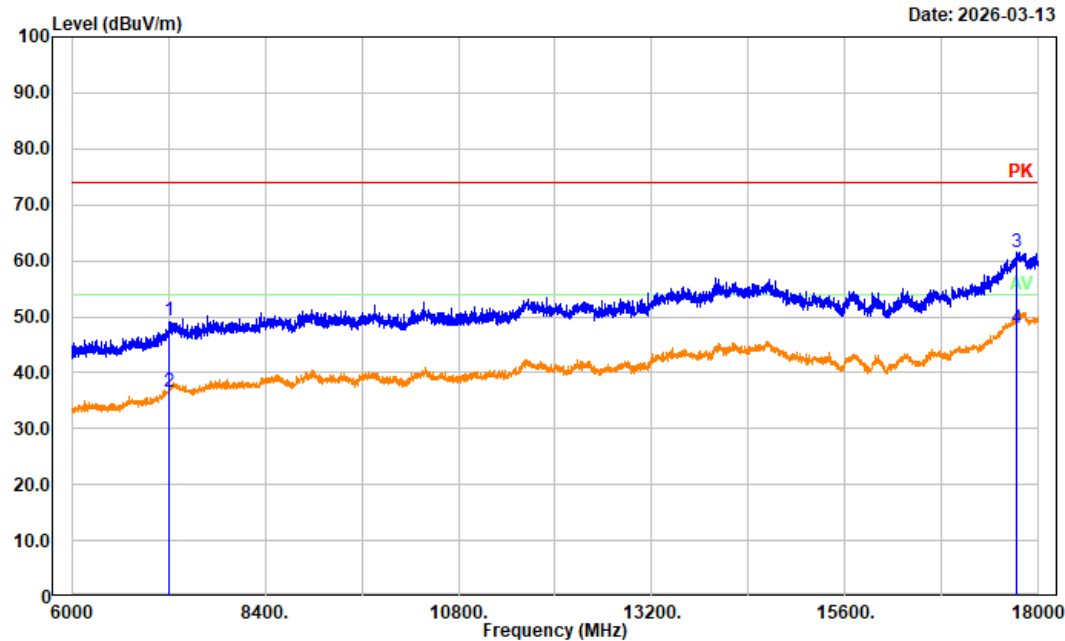
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	1995.000	50.11	-3.18	46.93	74.00	27.07	Peak
2	4804.000	49.30	4.64	53.94	74.00	20.06	Peak
3	4804.000	40.21	4.64	44.85	54.00	9.15	Average

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: horizontal
Note: EDR Mode 8DPSK Low Channel 2402 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	39.61	9.84	49.45	74.00	24.55	Peak
2	7206.000	26.37	9.84	36.21	54.00	17.79	Average
3	17767.200	40.76	21.24	62.00	74.00	12.00	Peak
4	17767.200	26.35	21.24	47.59	54.00	6.41	Average

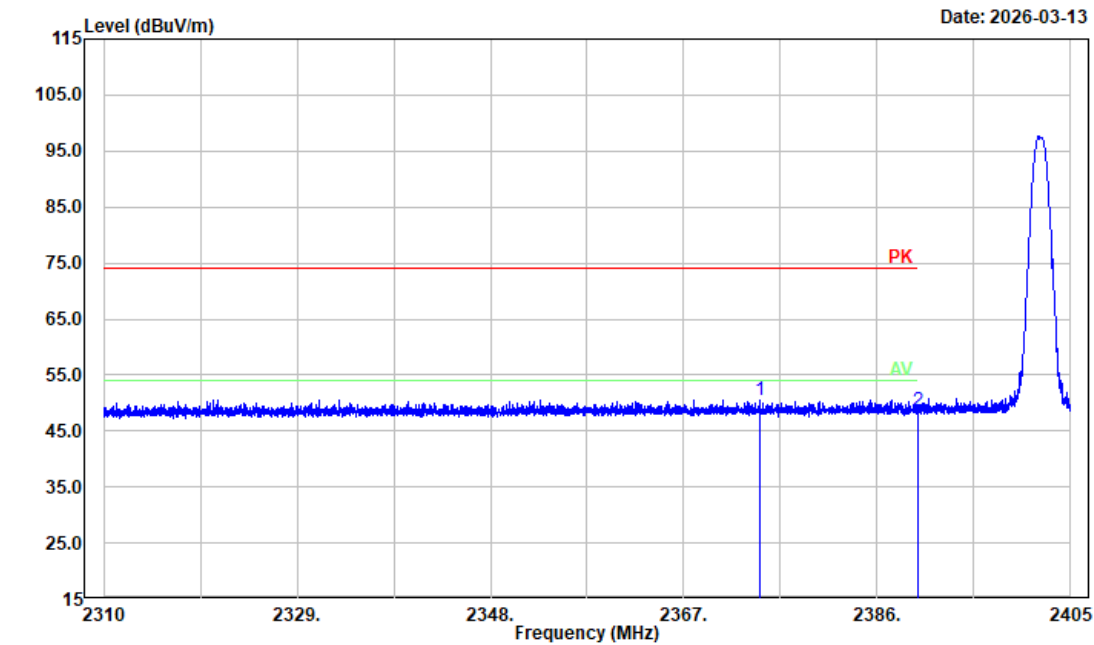
Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: vertical
Note: EDR Mode 8DPSK Low Channel 2402 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	39.53	9.84	49.37	74.00	24.63	Peak
2	7206.000	26.65	9.84	36.49	54.00	17.51	Average
3	17733.600	40.44	21.12	61.56	74.00	12.44	Peak
4	17733.600	26.74	21.12	47.86	54.00	6.14	Average

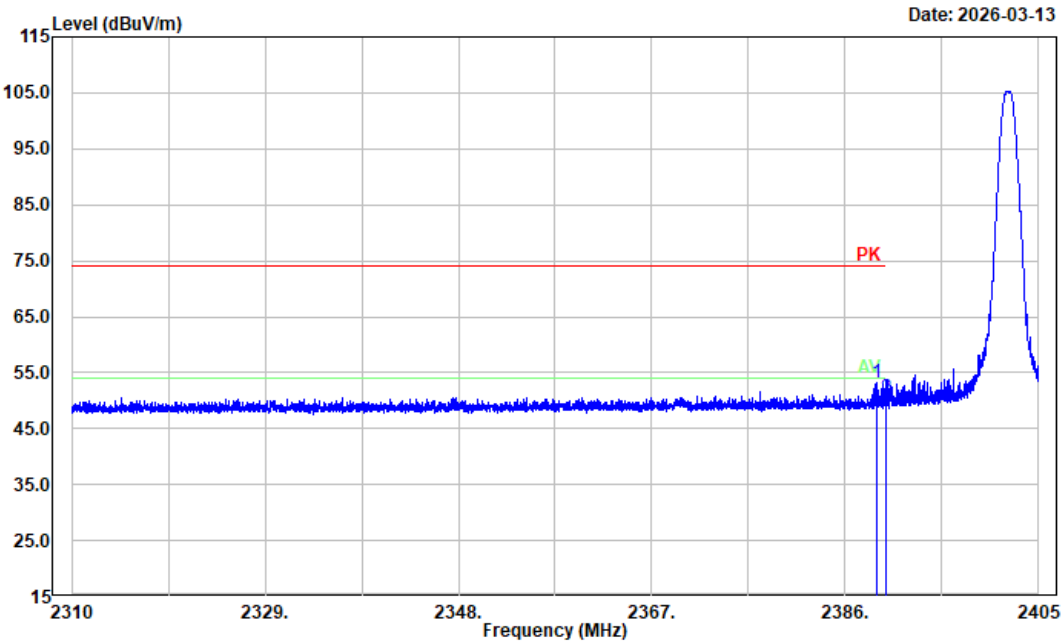
Band edge test plots

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: BDR Mode GFSK Low Channel 2402 MHz



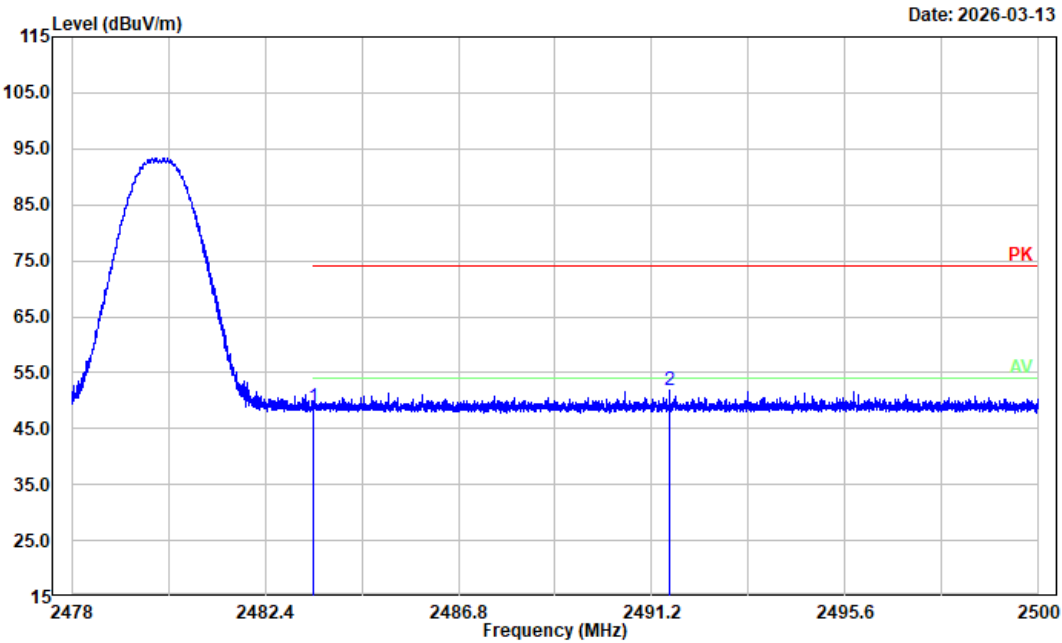
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2374.429	52.72	-2.21	50.51	74.00	23.49	Peak
2	2390.000	50.71	-2.13	48.58	74.00	25.42	Peak

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
 Polarization: vertical
 Note: BDR Mode GFSK Low Channel 2402 MHz



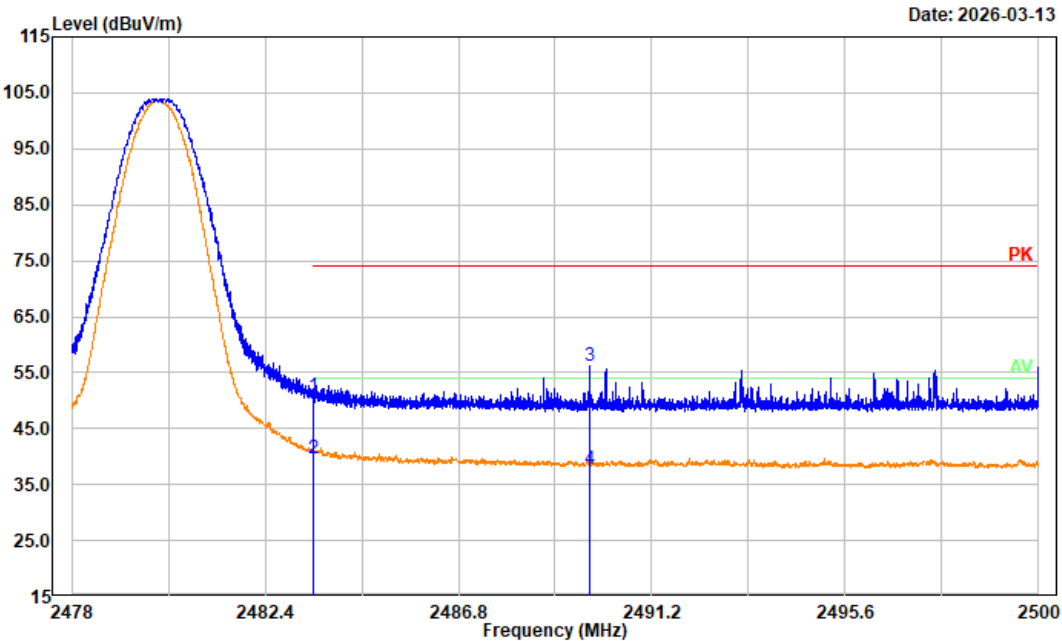
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2389.154	55.34	-2.13	53.21	74.00	20.79	Peak
2	2390.000	52.62	-2.13	50.49	74.00	23.51	Peak

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
 Polarization: Horizontal
 Note: BDR Mode GFSK High Channel 2480 MHz



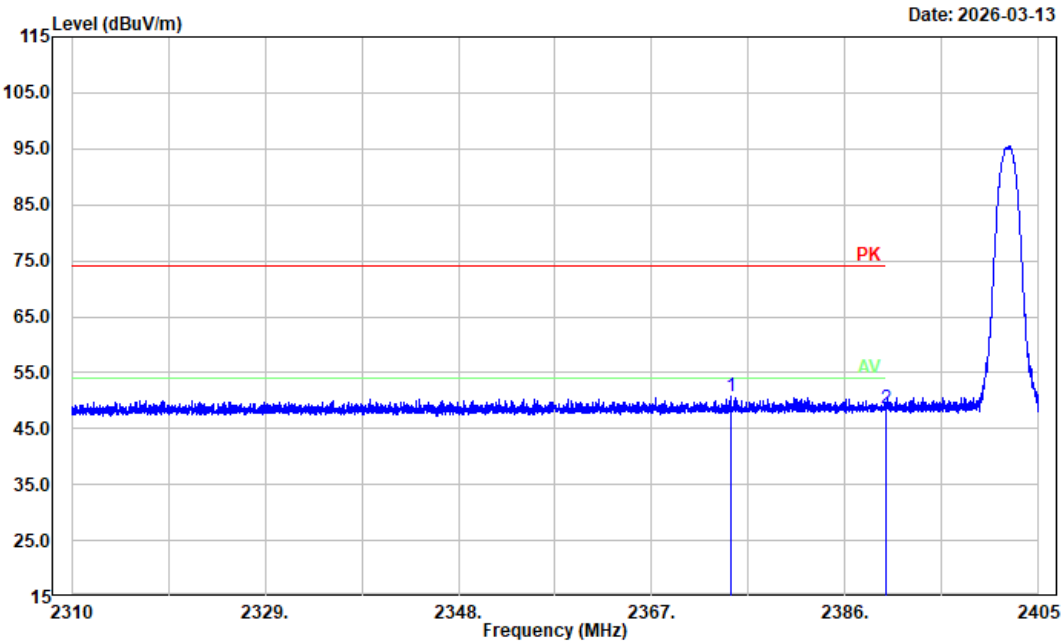
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	51.04	-2.17	48.87	74.00	25.13	Peak
2	2491.600	54.11	-2.14	51.97	74.00	22.03	Peak

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
Polarization: Vertical
Note: BDR Mode GFSK High Channel 2480 MHz



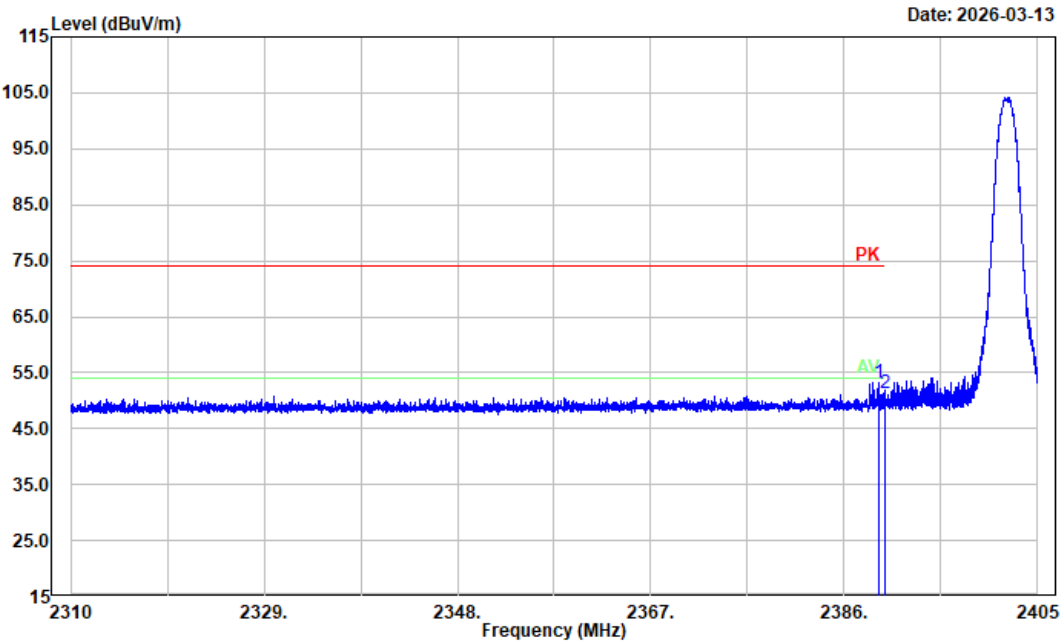
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	52.91	-2.17	50.74	74.00	23.26	Peak
2	2483.500	41.84	-2.17	39.67	54.00	14.33	Average
3	2489.779	58.41	-2.14	56.27	74.00	17.73	Peak
4	2489.779	39.98	-2.14	37.84	54.00	16.16	Average

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
 Polarization: Horizontal
 Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



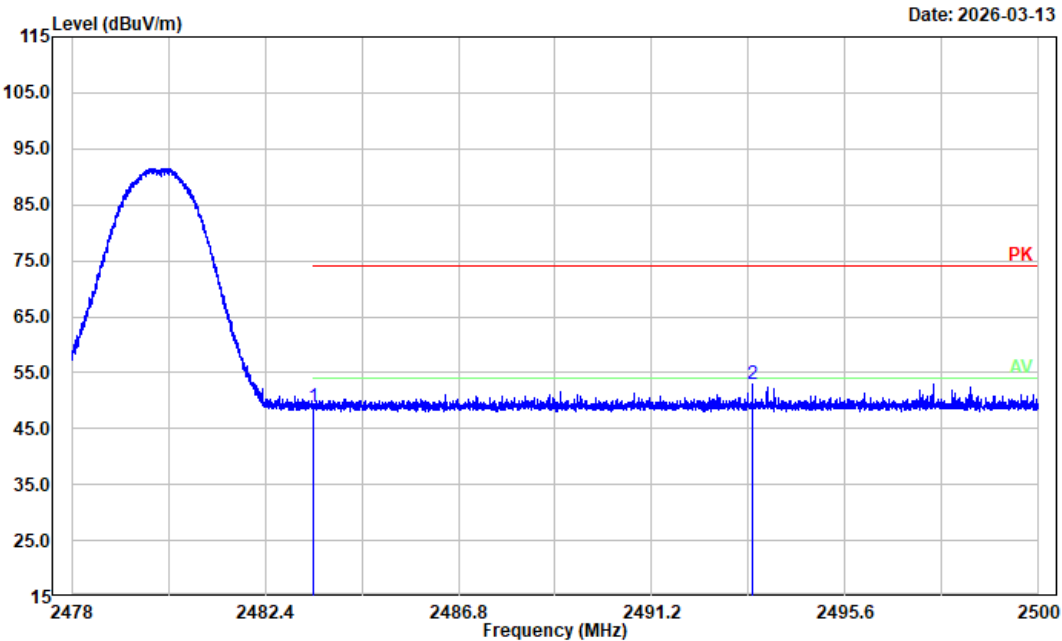
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	2374.771	52.99	-2.21	50.78	74.00	23.22	Peak
2	2390.000	50.85	-2.13	48.72	74.00	25.28	Peak

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: EDR Mode π -4-DQPSK Low Channel 2402 MHz



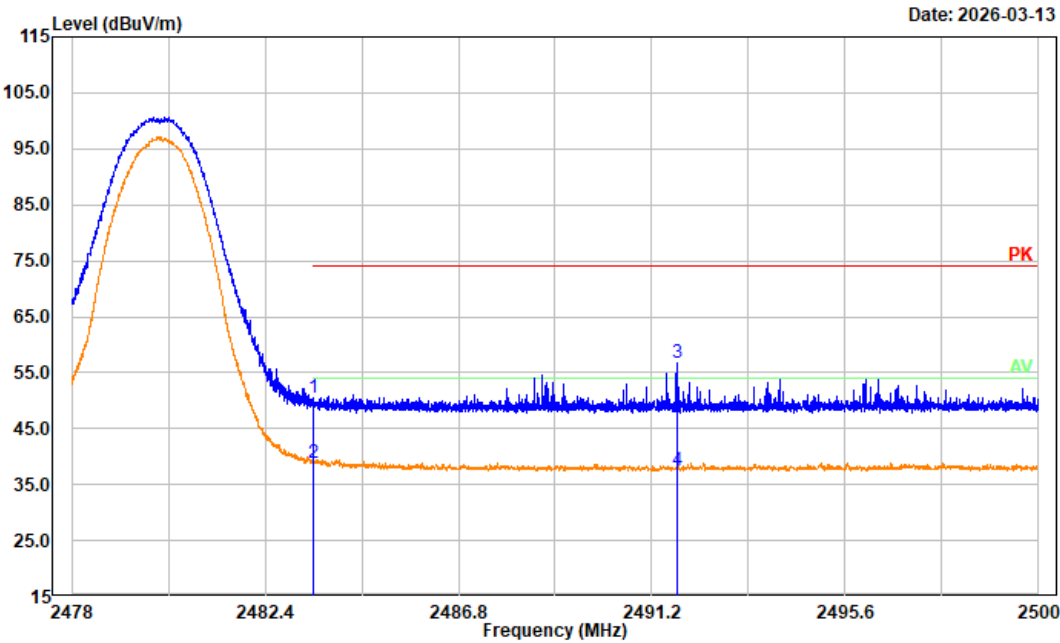
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2389.439	55.29	-2.13	53.16	74.00	20.84	Peak
2	2390.000	53.35	-2.13	51.22	74.00	22.78	Peak

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: EDR Mode π -4-DQPSK High Channel 2480 MHz



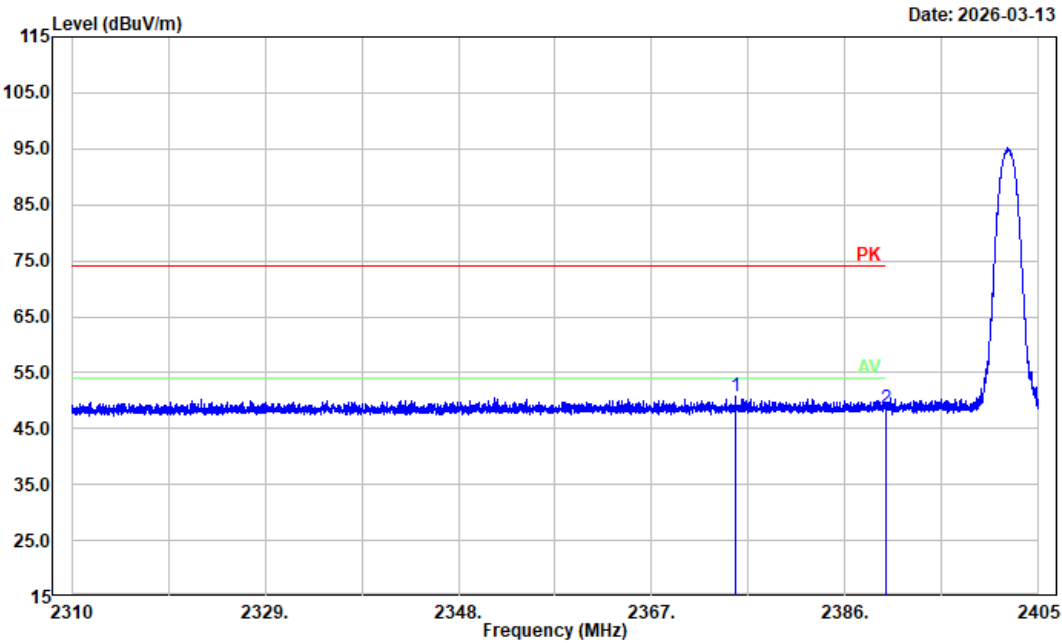
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	51.08	-2.17	48.91	74.00	25.09	Peak
2	2493.484	54.98	-2.13	52.85	74.00	21.15	Peak

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: Vertical
 Note: EDR Mode π -4-DQPSK High Channel 2480 MHz



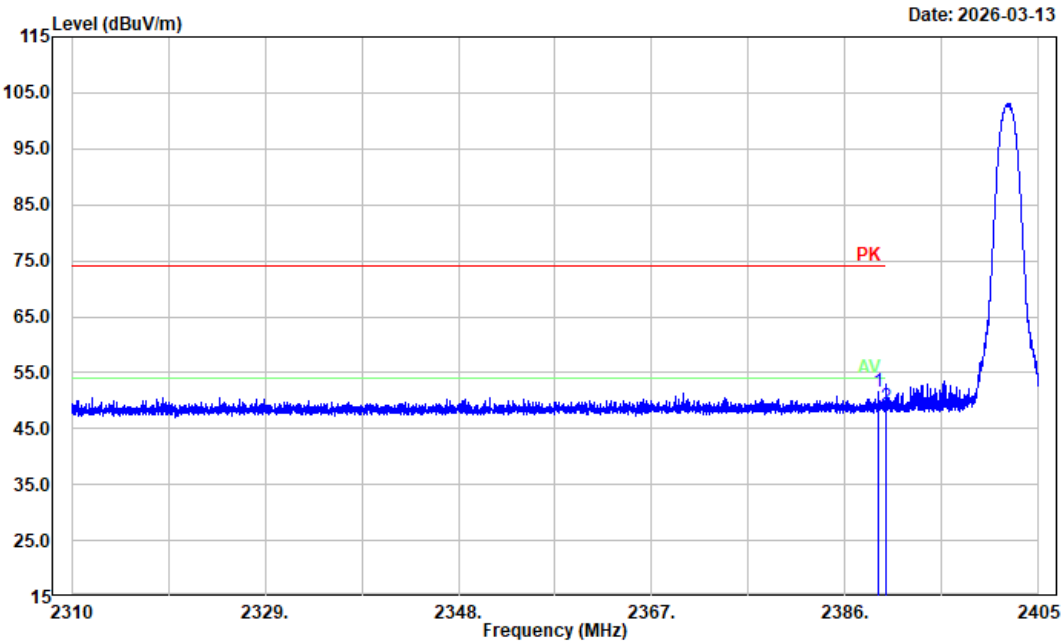
No.	Frequency (MHz)	Reading (dB μ V)	Factor (dB/m)	Result (dB μ V/m)	Limit (dB μ V/m)	Margin (dB)	Remark
1	2483.500	52.60	-2.17	50.43	74.00	23.57	Peak
2	2483.500	40.96	-2.17	38.79	54.00	15.21	Average
3	2491.776	58.88	-2.14	56.74	74.00	17.26	Peak
4	2491.776	39.55	-2.14	37.41	54.00	16.59	Average

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
 Polarization: Horizontal
 Note: EDR Mode 8DPSK Low Channel 2402 MHz



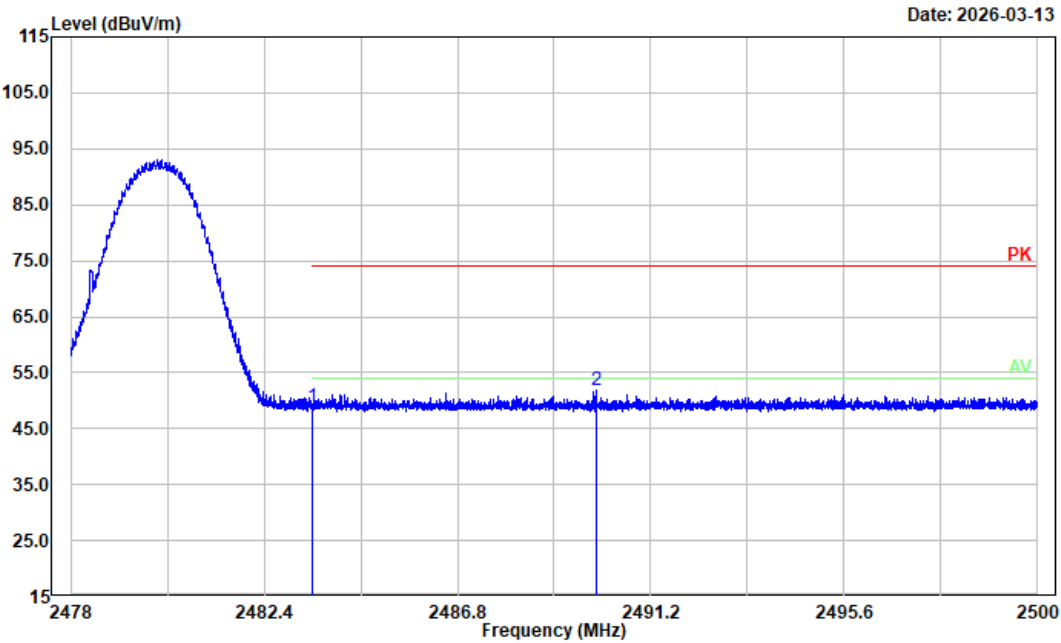
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2375.208	53.10	-2.21	50.89	74.00	23.11	Peak
2	2390.000	50.76	-2.13	48.63	74.00	25.37	Peak

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
 Polarization: Vertical
 Note: EDR Mode 8DPSK Low Channel 2402 MHz



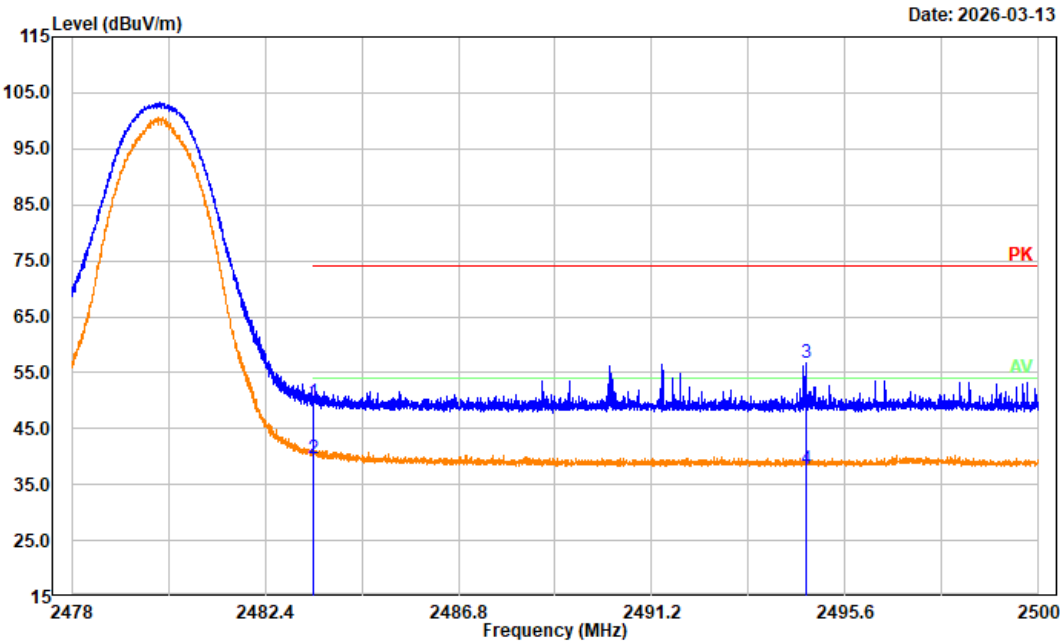
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2389.268	53.61	-2.13	51.48	74.00	22.52	Peak
2	2390.000	51.11	-2.13	48.98	74.00	25.02	Peak

Project No: 2603R47150E-RF
Tester: HuaYuan Miao
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: EDR Mode 8DPSK High Channel 2480 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	51.02	-2.17	48.85	74.00	25.15	Peak
2	2489.972	54.03	-2.14	51.89	74.00	22.11	Peak

Project No: 2603R47150E-RF
 Tester: HuaYuan Miao
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz;SWT:auto
 Polarization: Vertical
 Note: EDR Mode 8DPSK High Channel 2480 MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	51.85	-2.17	49.68	74.00	24.32	Peak
2	2483.500	41.93	-2.17	39.76	54.00	14.24	Average
3	2494.711	58.95	-2.13	56.82	74.00	17.18	Peak
4	2494.711	39.96	-2.13	37.83	54.00	16.17	Average

4.3 RF Conducted Data

Please refer to Annex "Appendix A" for detail test data.

5. EUT PHOTOGRAPHS

Please refer to the attachment 2603R47150E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2603R47150E-RF-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2603R47150E-RF-00B-TSPTEST SETUP PHOTOGRAPHS.

===== END OF REPORT =====