



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-RDKX5K

Product Name: RDK X5

Standard(s): 47 CFR Part 15, Subpart C(15.247)

ANSI C63.10-2013

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: 2403Z107562E-RF-00C

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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 No. 113, Pingkang Road, Dalang Town, Dongguan, 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.

Declarations

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Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2403Z107562E-RF-00C	Original Report	2024/12/20

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	RDK X5
EUT Model:	RDK X5 8G
Multiple Model:	RDK X5 4G
Operation Frequency:	2412-2462 MHz(802.11b/g/n ht20/ax hew20) 2422-2452 MHz(802.11n ht40/ax hew40)
Maximum Peak Output Power (Conducted):	22.29dBm
Modulation Type:	802.11b: DSSS-DBPSK, DQPSK, CCK 802.11g/n: OFDM-BPSK, QPSK, 16QAM, 64QAM 802.11ax: OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM
Rated Input Voltage:	DC 5V from Type-C Port
Serial Number:	RF:2V9E-1(RDK X5 8G) CE&RE: 2V9E-3(RDK X5 4G)
EUT Received Date:	2024/11/29
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

For 802.11b/g/n ht20//ax hew20:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
1	2412	7	2442
2	2417	8	2447
3	2422	9	2452
4	2427	10	2457
5	2432	11	2462
6	2437	/	/

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

Test Channel	Frequency (MHz)
Lowest	2412
Middle	2437
Highest	2462

For 802.11n ht40//ax hew40:

Channel	Frequency (MHz)	Channel	Frequency (MHz)
3	2422	7	2442
4	2427	8	2447
5	2432	9	2452
6	2437	/	/

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

Test Channel	Frequency (MHz)
Lowest	2422
Middle	2437
Highest	2452

1.1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
Chip	50	2400-2500	0.43

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
/	/	/

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 DSS report test, Radiated Emissions test and AC Line Conducted Emissions test with RDK X5 4G was the worst.
Equipment Modifications:	No
EUT Exercise Software:	MobaXterm.exe

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

Test Modes	Data Rate	Power Level Setting		
		Lowest Channel	Middle Channel	Highest Channel
802.11b	1Mbps	18	18	18
802.11g	6Mbps	16	16	16
802.11n ht20	MCS0	15	15	15
802.11n ht40	MCS0	15	15	15
802.11ax hew20	MCS0	14	14	14
802.11ax hew40	MCS0	15	15	15

Note:

1. The above are the worst-case data rates, which are determined for each mode based upon investigations by measuring the average power and PSD across all data rates, bandwidths, and modulations.
2. 802.11ax mode only support full RU configuration.

1.2.2 Support Equipment List and Details

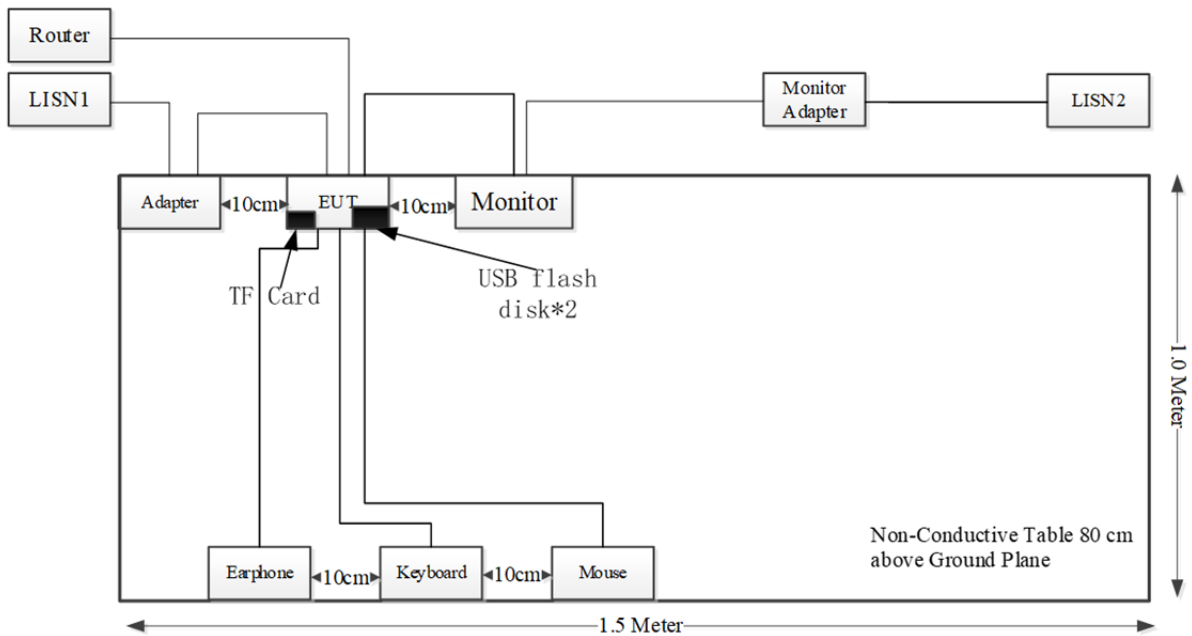
Manufacturer	Description	Model	Serial Number
PHILIPS	Keyboard	SPT6234	K234210510746
PHILIPS	Mouse	SPT6234	C234210506222
Tenda	Router	RX12 Pro	ED331010215000033
Fangxin	Adapter	HT-PD27W-CN	AD220930001
HP	USB Disk	HPFD206W-32	PAA6918477
HP	USB Disk	HPFD206W-32	PAA6902271
ViewSonic	Monitor	VX1630-4K-HD	W9F203900071
IPro	Earphone	Phonenix 5.0s	EP221126001
SanDisk	TF Card	32 GB	521005904698
Hytera	Monitor Adapter	HKA01212010-XQ	PS1014

1.2.3 Support Cable List and Details

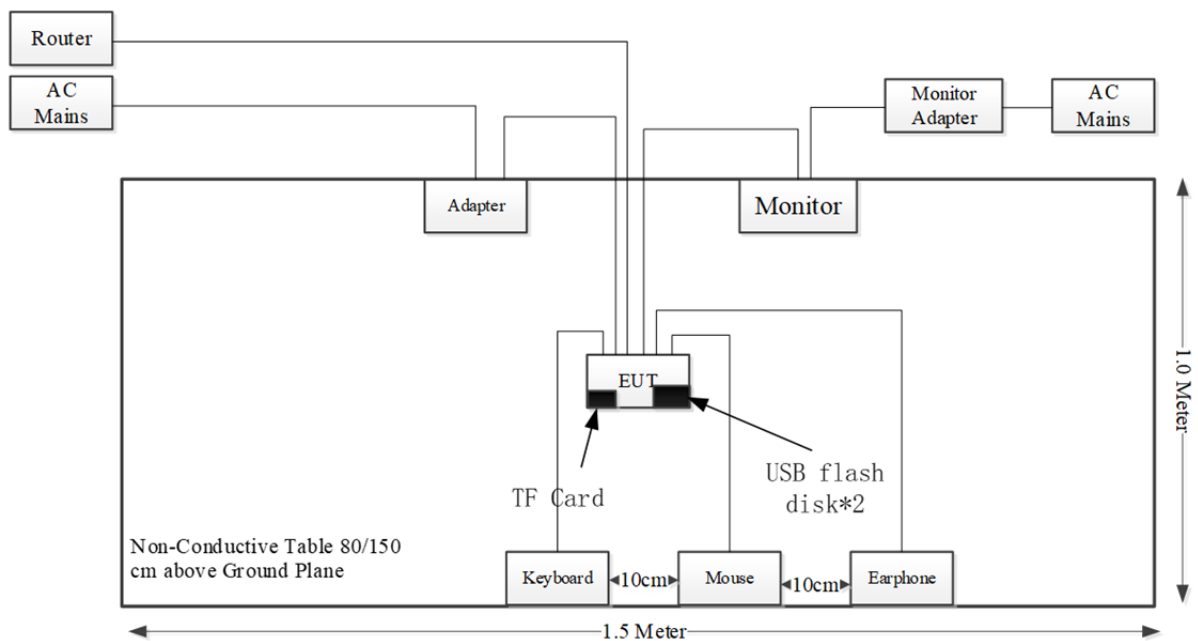
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Keyboard Cable	NO	NO	1.2	EUT	Keyboard
Mouse Cable	NO	NO	1.2	EUT	Mouse
Power Cable	NO	NO	1.2	Adapter	EUT
RJ45 Cable	NO	NO	3	Router	EUT
HDMI Cable	NO	NO	1.2	EUT	Monitor
Earphone Cable	NO	NO	1.2	EUT	Earphone
Power Cable	NO	NO	1.5	Monitor Adapter	Monitor

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: 4.15 dB, 200M~1GHz: 5.61 dB, 1G~6GHz: 5.14 dB, 6G~18GHz: 5.93 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	PASS
FCC §15.207(a)	AC Line Conducted Emissions	PASS
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emission	PASS
FCC §15.207(a)(2)	6dB Emission Bandwidth	PASS
FCC §15.247(b)(1)	Maximum Conducted Output Power	PASS
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	PASS
FCC §15.247(e)	Power Spectral Density	PASS
C63.10 §11.6	Duty Cycle	PASS

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:

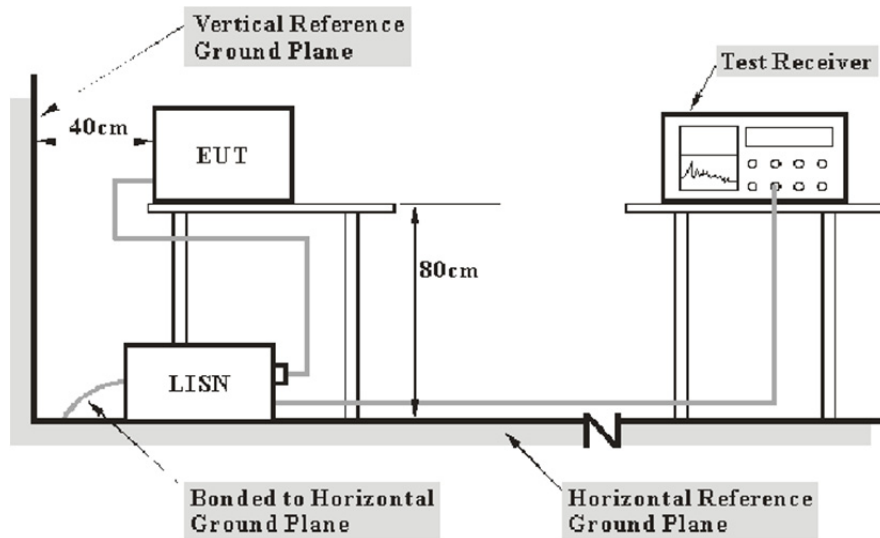
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(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 C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10 cm.

3.1.3 EMI Test Receiver Setup

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

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 Radiation Spurious Emissions

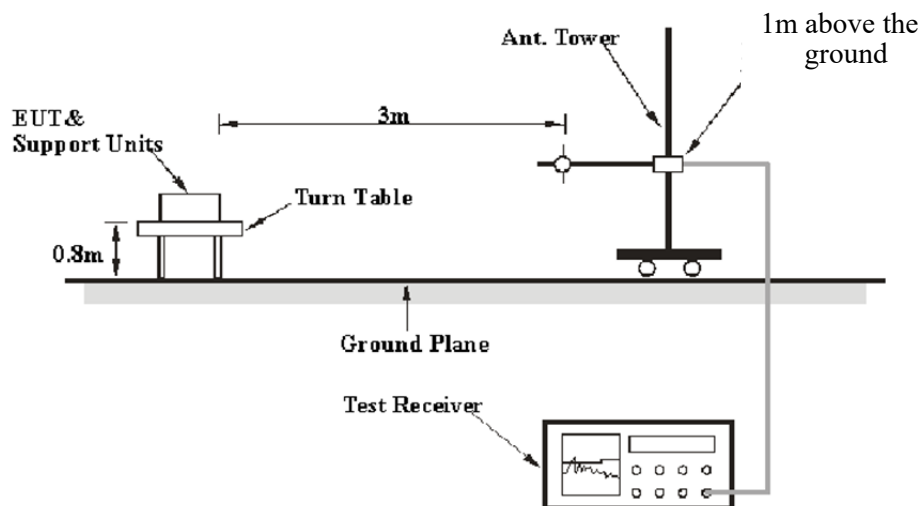
3.2.1 Applicable Standard

FCC §15.247 (d);

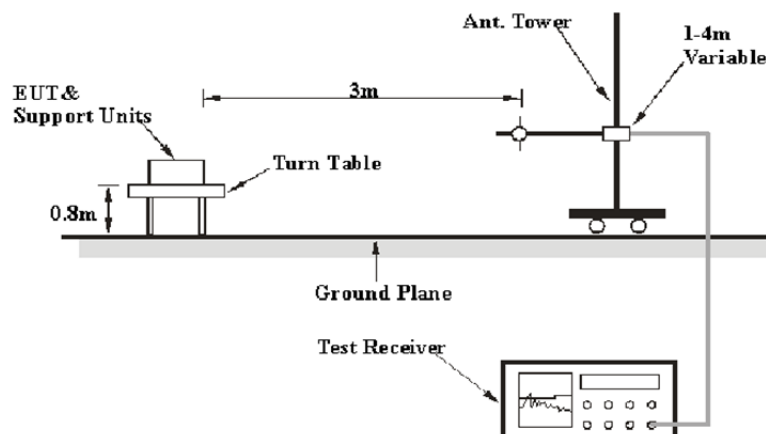
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the 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)).

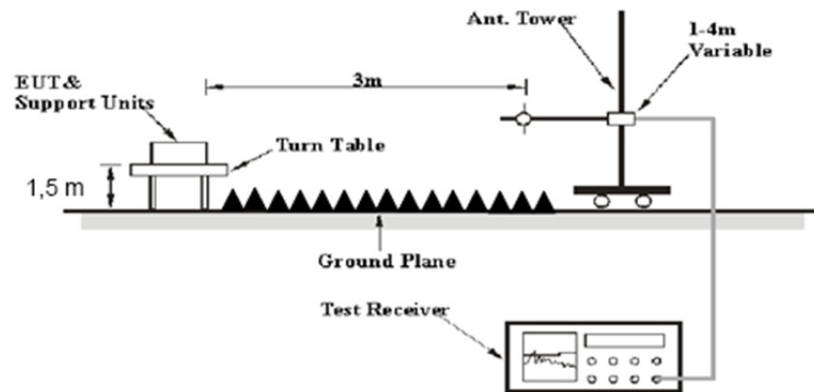
3.2.2 EUT Setup

9kHz - 30MHz:



30M~1GHz:



Above 1GHz:

The radiated emissions were performed in the 3 meters distance, using the setup accordance with the ANSI C63.10-2013. 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 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

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	300 Hz	1 kHz	/	Peak	PK
	/	/	200 Hz	Quasi Peak/ Average	QP/AV
150 kHz – 30 MHz	10 kHz	30 kHz	/	Peak	PK
	/	/	9 kHz	Quasi Peak/ Average	QP/AV
30 MHz – 1000 MHz	100 kHz	300 kHz	/	Peak	PK
	/	/	120 kHz	Quasi Peak	QP

1GHz- 25GHz:

Pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	5 kHz	Peak
	<98%	1MHz	$\geq 1/T$, not less than 5 kHz	Peak

Note: T is minimum transmission duration

Final measurement for emission identified during the pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	10 Hz	Peak
	<98%	1MHz	$\geq 1/T$	Peak

Note: T is minimum transmission duration

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

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

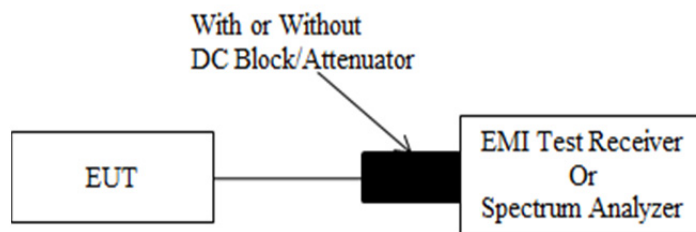
3.3 Minimum 6 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(2)

Systems using digital modulation techniques may operate in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

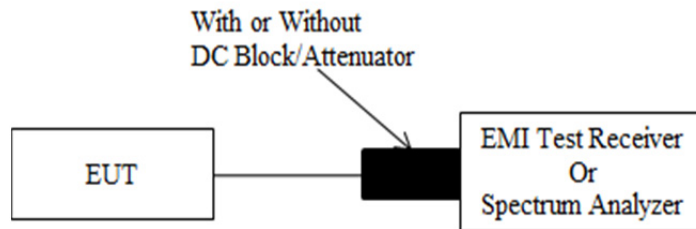
According to ANSI C63.10-2013 Section 11.8

- a) Set RBW = 100 kHz.
- b) Set the video bandwidth (VBW) $\geq 3 \times \text{RBW}$.
- c) Detector = Peak.
- d) Trace mode = max hold.
- e) Sweep = auto couple.
- f) Allow the trace to stabilize.
- g) Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

3.4 99% Occupied Bandwidth

3.4.1 Applicable Standard

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 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 approximately 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 $[10 \log (\text{OBW}/\text{RBW})]$ below the reference level. Specific guidance is given in 4.1.5.2.
- 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 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).

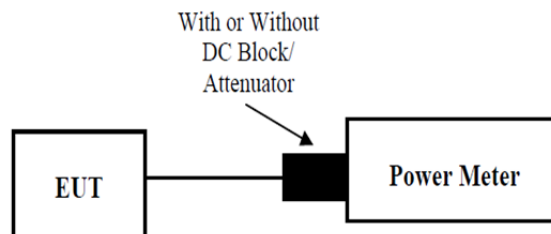
3.5 Maximum Conducted Output Power

3.5.1 Applicable Standard

FCC §15.247 (b)(3)

For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 11.9.2.3.2

Method AVGPM-G is a measurement using a gated RF average power meter.

Alternatively, measurements may be performed using a wideband gated RF power meter provided that the gate parameters are adjusted such that the power is measured only when the EUT is transmitting at its maximum power control level. Because the measurement is made only during the ON time of the transmitter, no duty cycle correction factor is required.

According to ANSI C63.10-2013 Section 11.9.1.3

The maximum peak conducted output power may be measured using a broadband peak RF power meter. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall use a fast-responding diode detector.

- a) Set the EUT in transmitting mode.
- b) Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to test equipment.
- c) Add a correction factor to the display.
- d) Set the power meter to test peak output power, record the result.

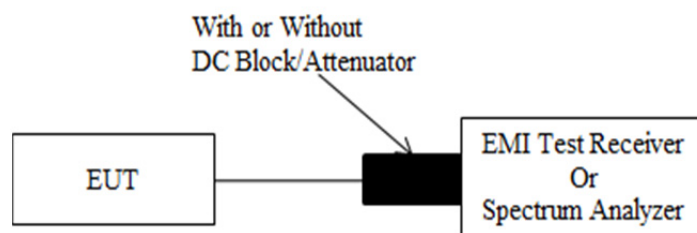
3.6 Maximum Power Spectral Density

3.6.1 Applicable Standard

FCC §15.247 (e)

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density.

3.6.2 EUT Setup



3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 11.10.2

- Set analyzer center frequency to DTS channel center frequency.
- Set the span to 1.5 times the DTS bandwidth.
- Set the RBW to $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
- 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 within the RBW.
- If measured value exceeds requirement, then reduce RBW (but no less than 3 kHz) and repeat.

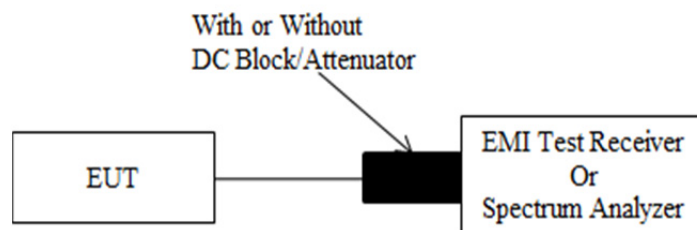
3.7 100 kHz Bandwidth of Frequency Band Edge

3.7.1 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)).

3.7.2 EUT Setup



3.7.3 Test Procedure

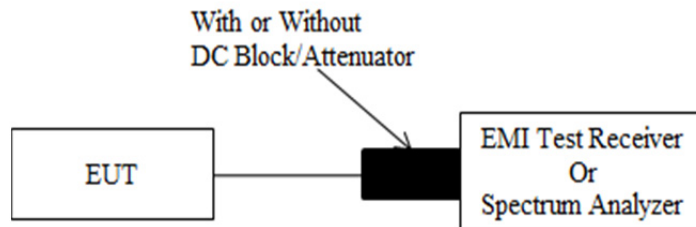
According to ANSI C63.10-2013 Section 11.11

- 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 specified in 11.11. Report the three highest emissions relative to the limit.

3.8 Duty Cycle

3.8.1 EUT Setup



3.8.2 Test Procedure

According to ANSI C63.10-2013 Section 11.6

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the ON and OFF times of the transmitted signal:

- 1) Set the center frequency of the instrument to the center frequency of the transmission.
- 2) Set $RBW \geq OBW$ if possible; otherwise, set RBW to the largest available value.
- 3) Set $VBW \geq RBW$. Set detector = peak or average.
- 4) The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring the duty cycle shall not be used if $T \leq 16.7 \mu s$.)

3.9 Antenna Requirement

3.9.1 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.

3.9.2 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:	2V9E-3	Test Date:	2024/12/16
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode, 802.11g low channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.9	Relative Humidity: (%)	26	ATM Pressure: (kPa)	101.7
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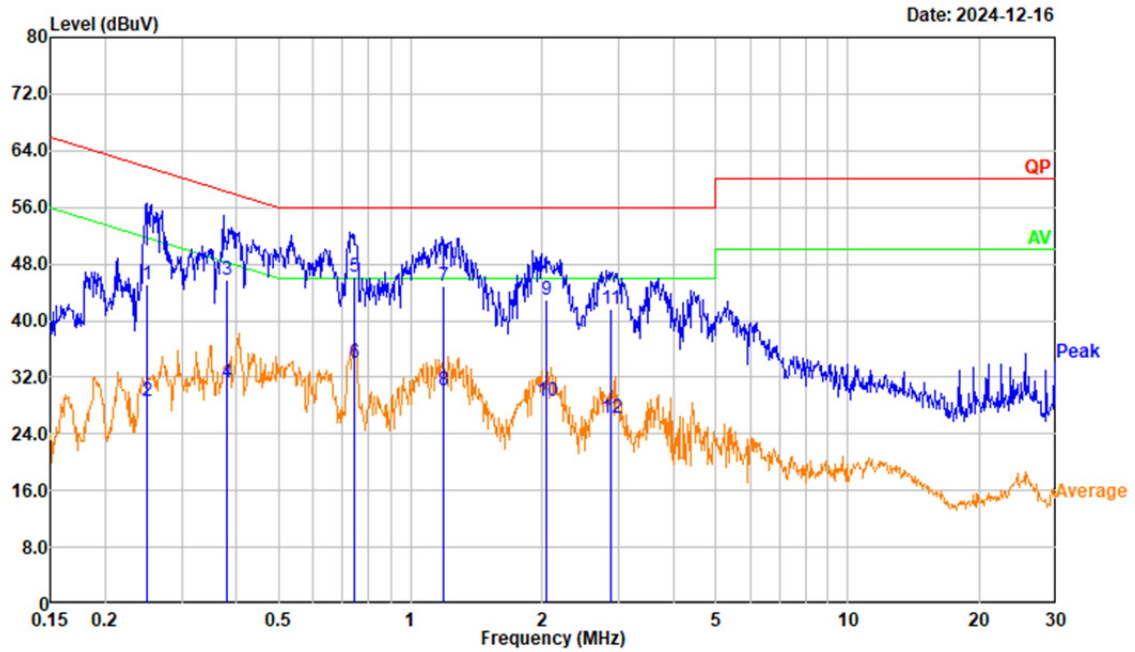
Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	LISN	ENV216	101132	2024/4/1	2025/3/31
R&S	EMI Test Receiver	ESR3	103104	2024/5/10	2025/5/9
MICRO-COAX	Coaxial Cable	UTIFLEX	C-0200-01	2024/1/15	2025/1/14
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).

RDK X5 4G

Project No.: 2403Z107562E-RF
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: Line
Note: Transmitting 2.4G WIFI(4G)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.249	35.10	10.09	45.19	61.79	16.60	QP
2	0.249	18.55	10.09	28.64	51.79	23.15	Average
3	0.380	35.36	10.31	45.67	58.28	12.61	QP
4	0.380	20.82	10.31	31.13	48.28	17.15	Average
5	0.747	35.45	10.69	46.14	56.00	9.86	QP
6	0.747	23.30	10.69	33.99	46.00	12.01	Average
7	1.186	34.24	10.53	44.77	56.00	11.23	QP
8	1.186	19.61	10.53	30.14	46.00	15.86	Average
9	2.041	32.83	10.13	42.96	56.00	13.04	QP
10	2.041	18.41	10.13	28.54	46.00	17.46	Average
11	2.875	31.35	10.23	41.58	56.00	14.42	QP
12	2.875	15.93	10.23	26.16	46.00	19.84	Average

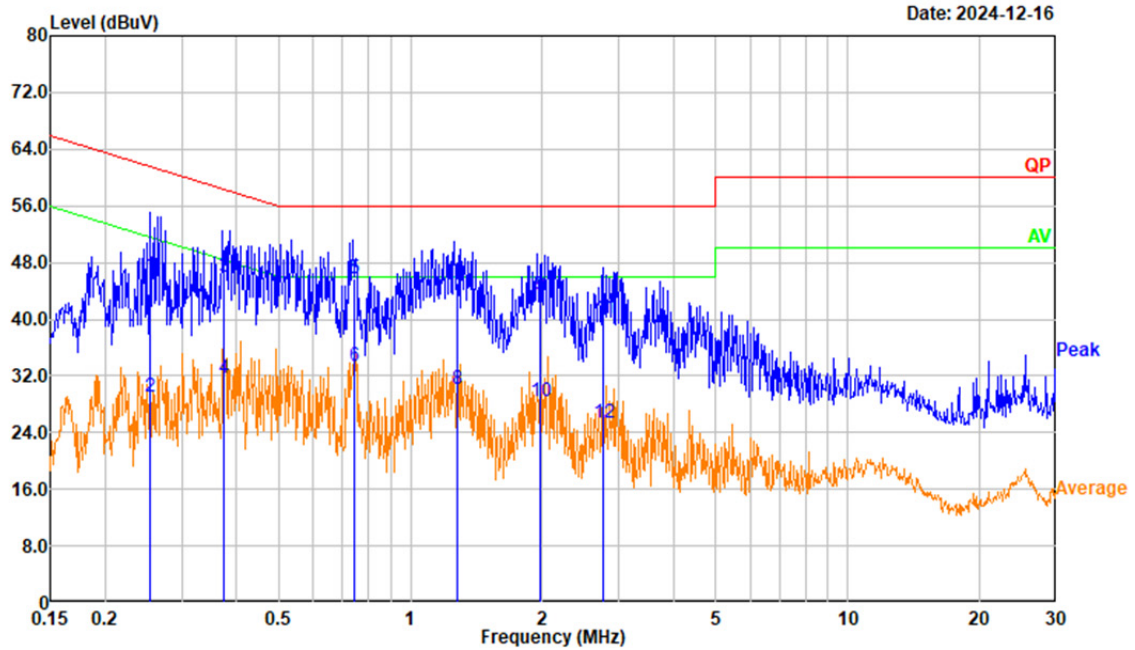
Project No.: 2403Z107562E-RF

Tester: David Huang

Condition: IFBW:9 kHz Meas Time:0.025sec

Port: neutral

Note: Transmitting 2.4G WIFI(4G)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.253	35.92	10.35	46.27	61.66	15.39	QP
2	0.253	18.79	10.35	29.14	51.66	22.52	Average
3	0.375	35.60	10.43	46.03	58.39	12.36	QP
4	0.375	21.18	10.43	31.61	48.39	16.78	Average
5	0.747	35.58	10.26	45.84	56.00	10.16	QP
6	0.747	23.12	10.26	33.38	46.00	12.62	Average
7	1.283	34.59	10.46	45.05	56.00	10.95	QP
8	1.283	19.78	10.46	30.24	46.00	15.76	Average
9	1.982	33.07	10.33	43.40	56.00	12.60	QP
10	1.982	18.13	10.33	28.46	46.00	17.54	Average
11	2.770	29.93	10.26	40.19	56.00	15.81	QP
12	2.770	15.09	10.26	25.35	46.00	20.65	Average

4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number:	2V9E-3	Test Date:	2024/12/18
Test Site:	966-2	Test Mode:	Transmitting (maximum output power mode, 802.11g low channel)
Tester:	Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.6	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.5
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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
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2024/1/11	2025/1/10
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2024/1/11	2025/1/10
R&S	EMI Test Receiver	ESR3	102724	2024/2/29	2025/2/28
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0100-03	2024/12/3	2025/12/2
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0370-01	2024/12/3	2025/12/2
XQY	Coaxial Cable	XQY-CMR400UF-NJ-NJ-7M	24056379	2024/6/11	2025/6/10
Sonoma	Amplifier	310N	186165	2024/12/3	2025/12/2
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 is refer to plots.

RDK X5 4G

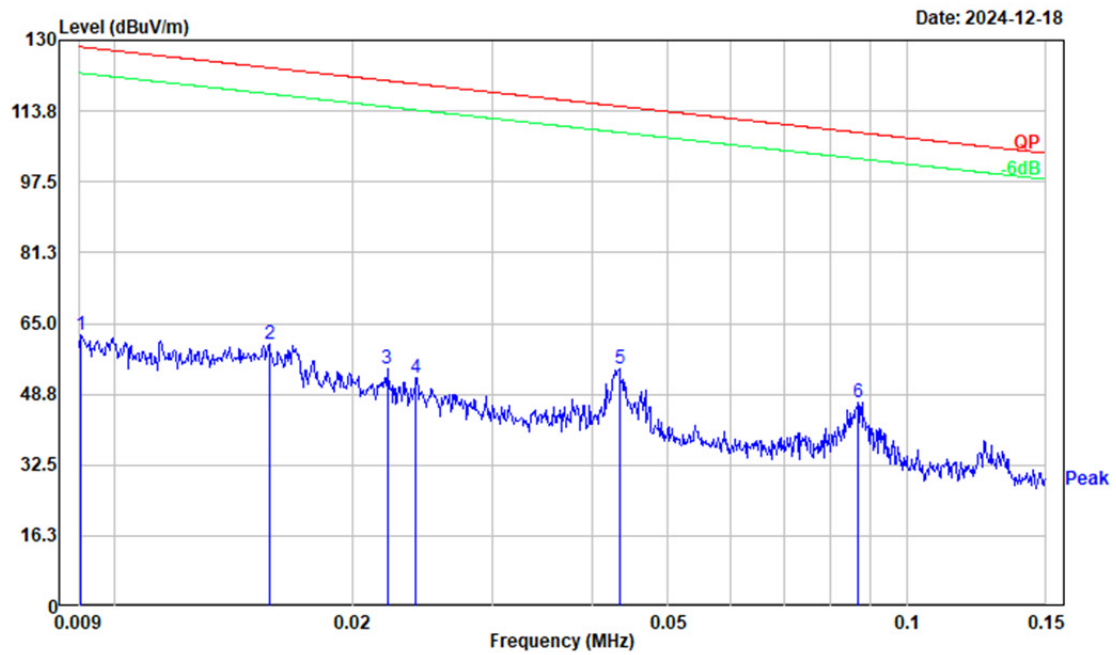
Project No.: 2403Z107562E-RF

Tester: Carl Xue

Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec

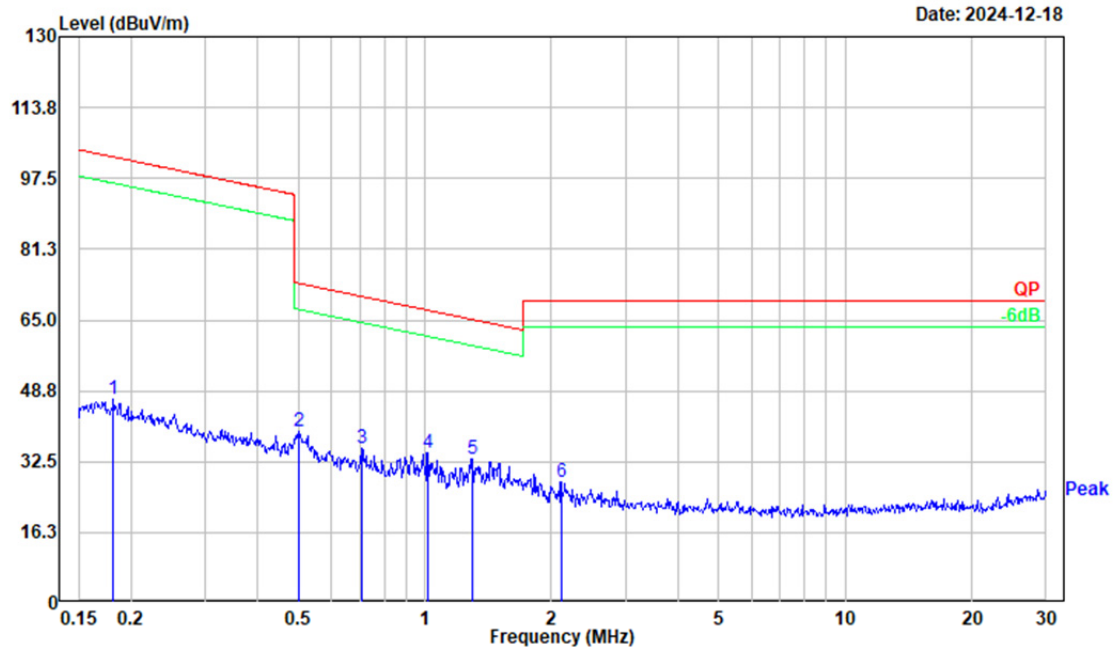
Polarization: Parallel

Note: Transmitting 2.4G WIFI



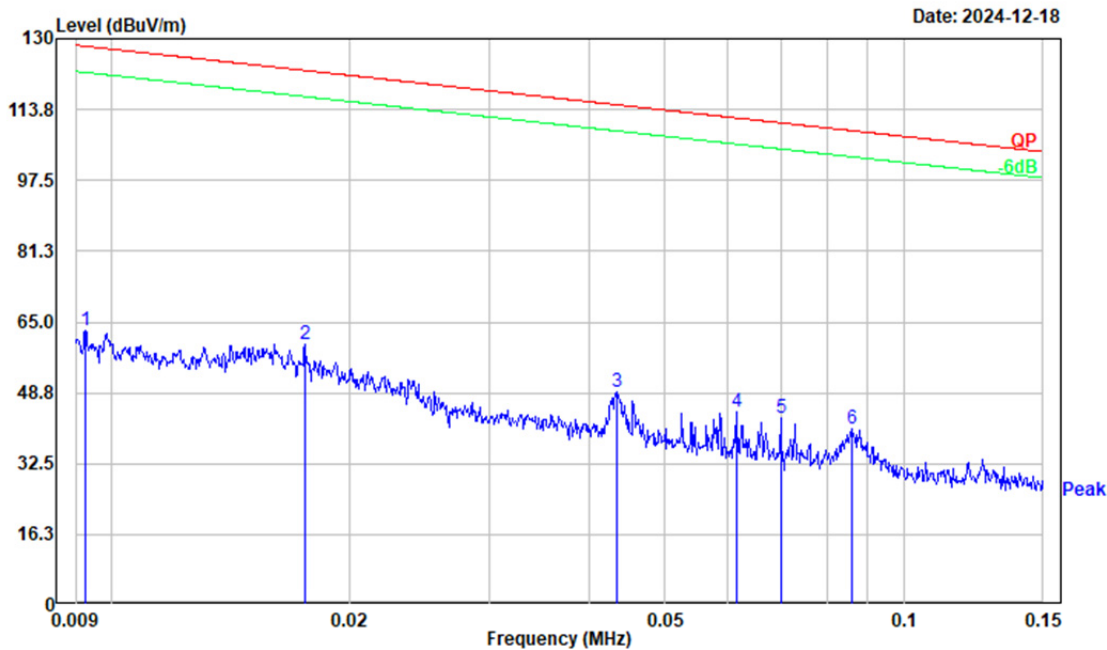
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	26.74	35.63	62.37	128.45	66.08	Peak
2	0.016	28.52	31.65	60.17	123.71	63.54	Peak
3	0.022	25.97	28.51	54.48	120.72	66.24	Peak
4	0.024	24.99	27.56	52.55	119.99	67.44	Peak
5	0.043	32.76	21.82	54.58	114.86	60.28	Peak
6	0.087	31.08	15.74	46.82	108.82	62.00	Peak

Project No.: 2403Z107562E-RF
Tester: Carl Xue
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting 2.4G WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.182	35.84	10.85	46.69	102.43	55.74	Peak
2	0.502	38.53	0.94	39.47	73.58	34.11	Peak
3	0.708	37.11	-1.46	35.65	70.53	34.88	Peak
4	1.016	38.79	-4.27	34.52	67.33	32.81	Peak
5	1.296	38.48	-5.27	33.21	65.17	31.96	Peak
6	2.110	35.51	-7.82	27.69	69.54	41.85	Peak

Project No.: 2403Z107562E-RF
 Tester: Carl Xue
 Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
 Polarization: Perpendicular
 Note: Transmitting 2.4G WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	27.60	35.40	63.00	128.28	65.28	Peak
2	0.018	29.01	30.74	59.75	122.73	62.98	Peak
3	0.043	27.11	21.80	48.91	114.83	65.92	Peak
4	0.061	25.69	18.86	44.55	111.83	67.28	Peak
5	0.070	25.27	17.70	42.97	110.70	67.73	Peak
6	0.086	24.64	15.83	40.47	108.92	68.45	Peak

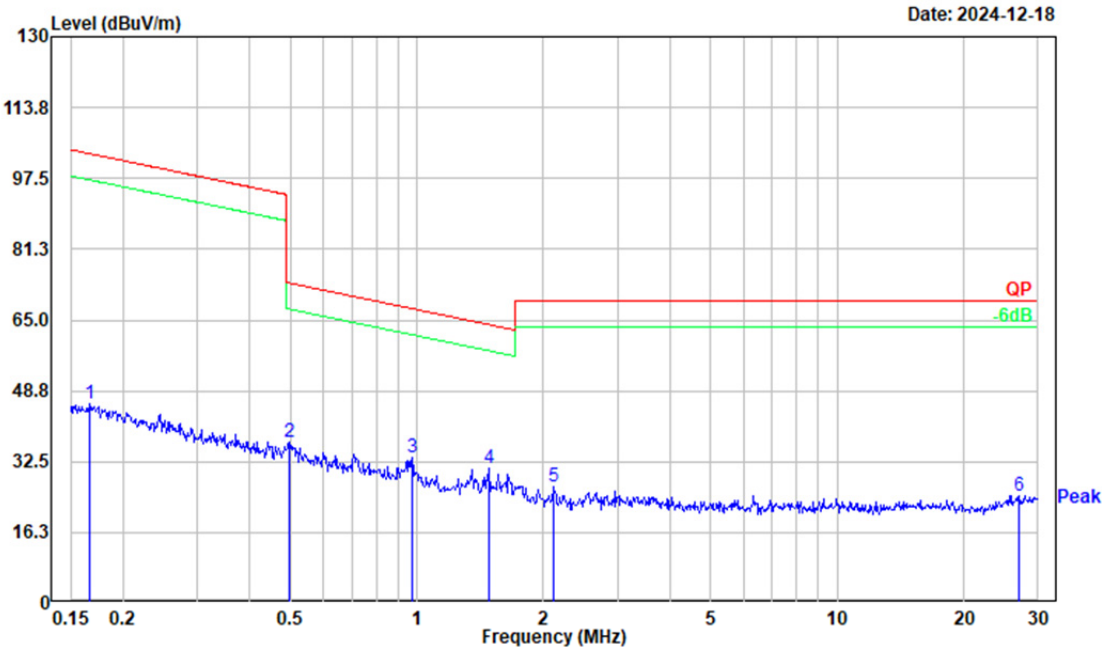
Project No.: 2403Z107562E-RF

Tester: Carl Xue

Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec

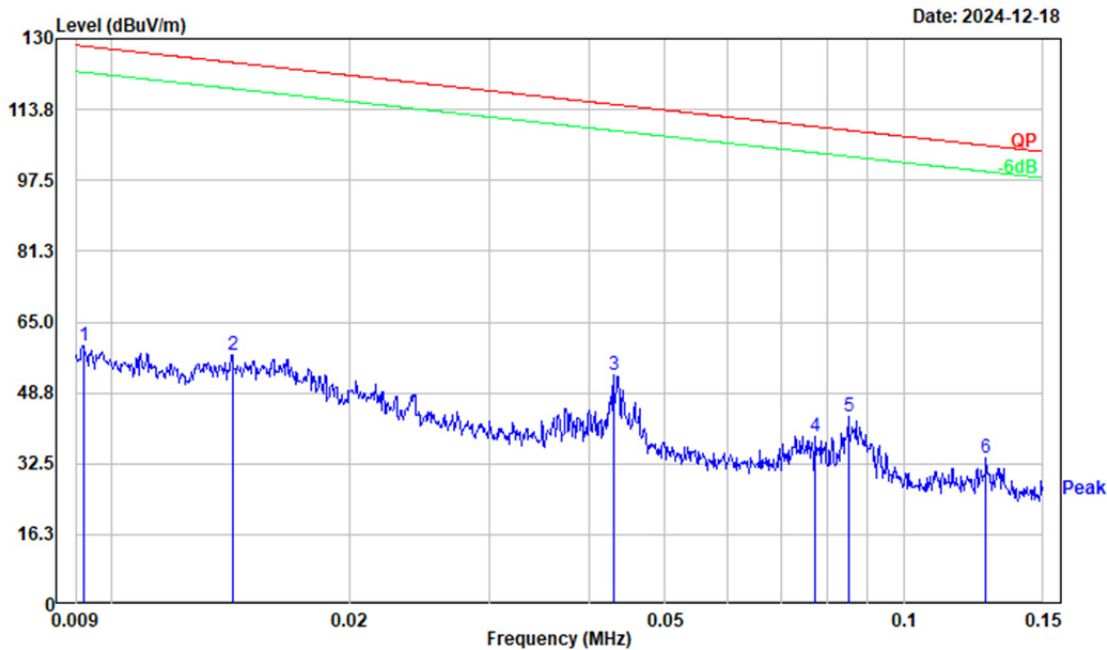
Polarization: Perpendicular

Note: Transmitting 2.4G WIFI



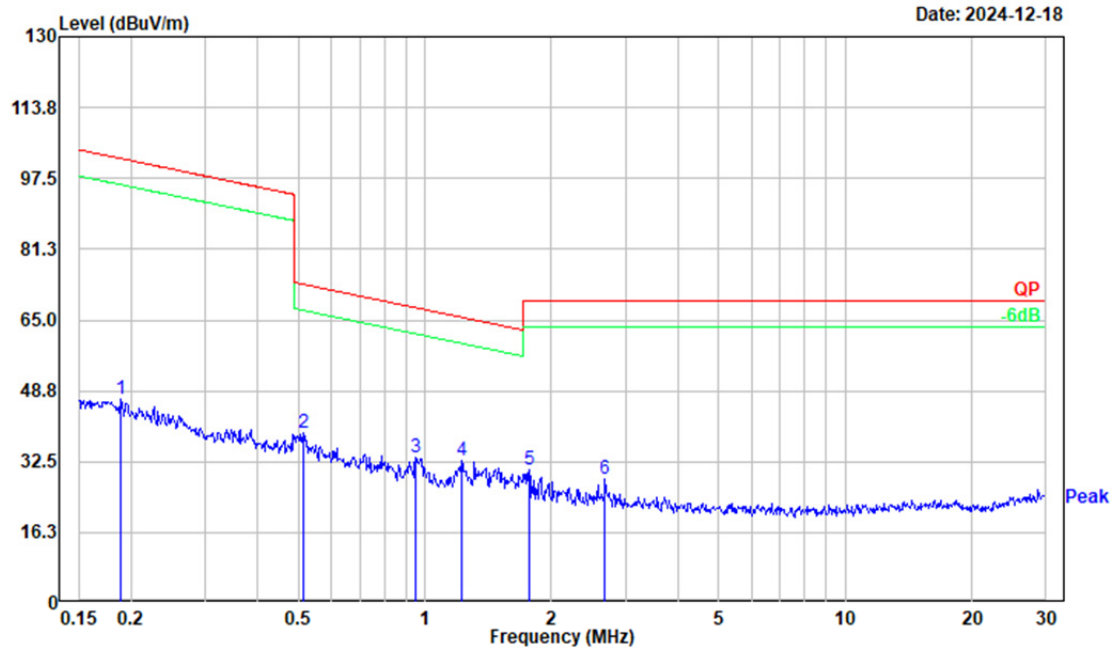
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.166	34.09	11.58	45.67	103.21	57.54	Peak
2	0.497	35.94	1.03	36.97	73.68	36.71	Peak
3	0.974	37.54	-3.99	33.55	67.71	34.16	Peak
4	1.480	36.92	-5.92	31.00	64.00	33.00	Peak
5	2.110	34.43	-7.82	26.61	69.54	42.93	Peak
6	27.127	32.30	-7.49	24.81	69.54	44.73	Peak

Project No.: 2403Z107562E-RF
 Tester: Carl Xue
 Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
 Polarization: Ground-parallel
 Note: Transmitting 2.4G WIFI



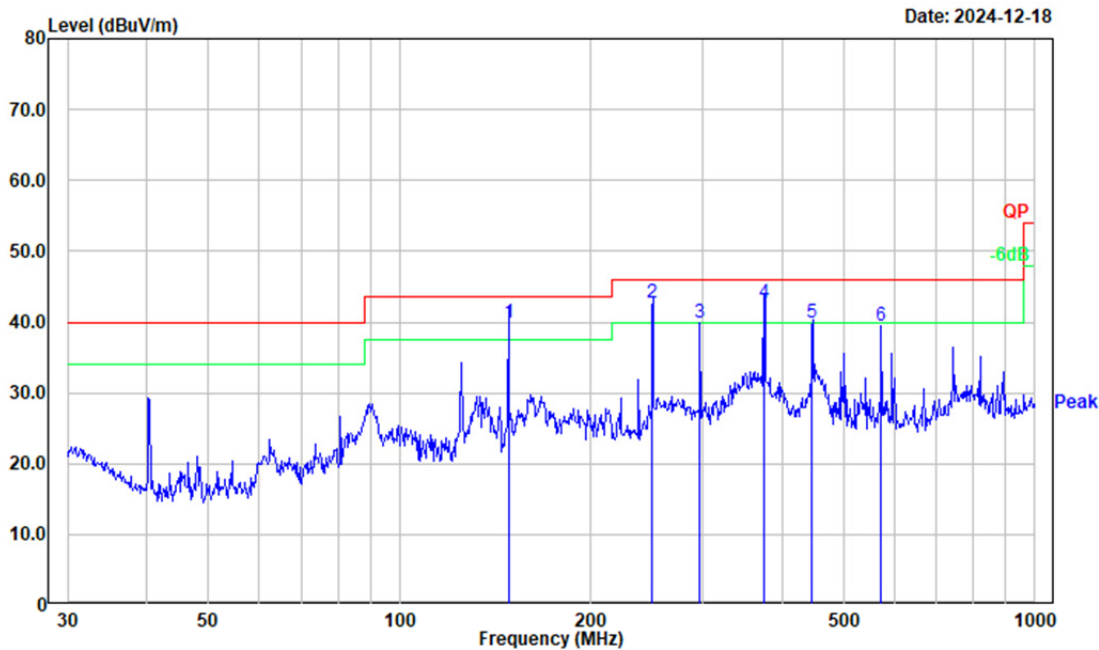
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	24.10	35.46	59.56	128.32	68.76	Peak
2	0.014	24.97	32.37	57.34	124.56	67.22	Peak
3	0.043	30.97	21.90	52.87	114.93	62.06	Peak
4	0.077	22.22	16.68	38.90	109.83	70.93	Peak
5	0.085	27.28	15.89	43.17	108.99	65.82	Peak
6	0.127	20.36	13.38	33.74	105.52	71.78	Peak

Project No.: 2403Z107562E-RF
Tester: Carl Xue
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting 2.4G WIFI



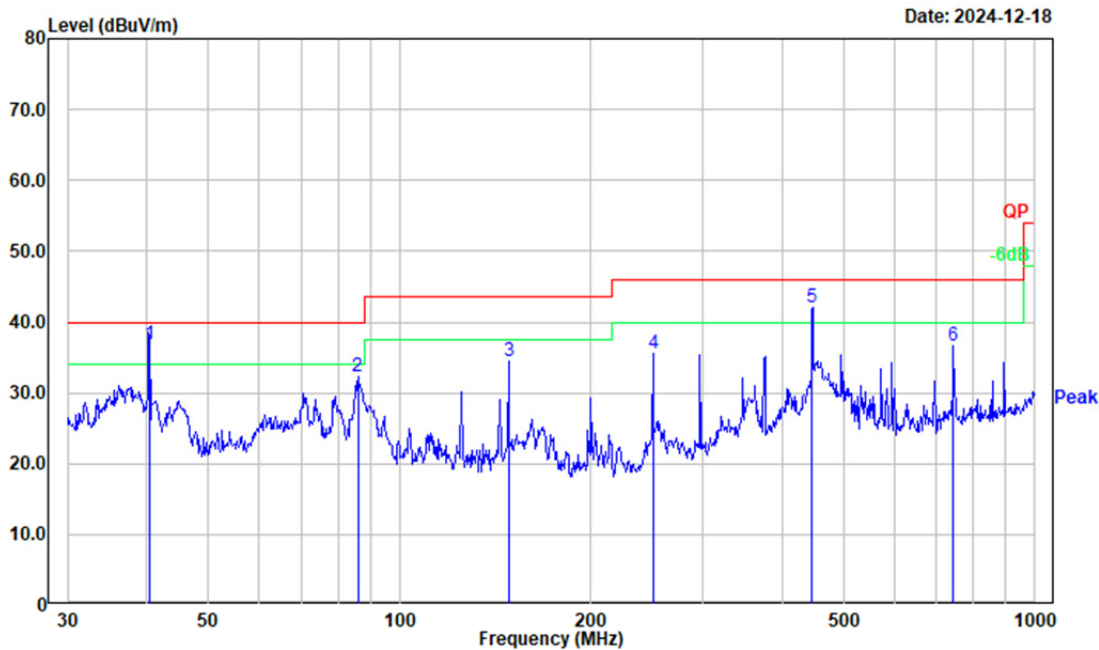
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.189	36.55	10.48	47.03	102.06	55.03	Peak
2	0.516	38.36	0.78	39.14	73.35	34.21	Peak
3	0.948	37.32	-3.77	33.55	67.95	34.40	Peak
4	1.223	37.90	-5.00	32.90	65.69	32.79	Peak
5	1.772	37.65	-6.95	30.70	69.54	38.84	Peak
6	2.678	36.51	-8.14	28.37	69.54	41.17	Peak

Project No.: 2403Z107562E-RF
 Tester: Carl Xue
 Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
 Polarization: horizontal
 Note: Transmitting 2.4G WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	148.524	52.18	-12.20	39.98	43.50	3.52	QP
2	250.011	55.69	-12.95	42.74	46.00	3.26	QP
3	297.224	50.48	-10.54	39.94	46.00	6.06	Peak
4	375.037	51.92	-9.15	42.77	46.00	3.23	QP
5	445.540	46.85	-7.01	39.84	46.00	6.16	QP
6	572.614	44.21	-4.79	39.42	46.00	6.58	Peak

Project No.: 2403Z107562E-RF
 Tester: Carl Xue
 Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
 Polarization: vertical
 Note: Transmitting 2.4G WIFI



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	40.367	48.23	-11.44	36.79	40.00	3.21	QP
2	85.898	49.59	-17.27	32.32	40.00	7.68	Peak
3	148.441	46.79	-12.21	34.58	43.50	8.92	Peak
4	250.301	48.53	-12.93	35.60	46.00	10.40	Peak
5	445.540	49.18	-7.01	42.17	46.00	3.83	QP
6	744.866	39.32	-2.68	36.64	46.00	9.36	Peak

4.2.2 1 GHz – 25 GHz

Sample Number	2V9E-3	Test Date:	2024/12/12~2024/12/13
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.7~26.3	Relative Humidity: (%)	60~62	ATM Pressure: (kPa)	101.3~101.5
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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	2024/4/1	2025/3/31
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2024/1/15	2025/1/14
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
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	2024/1/15	2025/1/14
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2024/1/15	2025/1/14
JD	Multiplex Switch Test Control Set	DT7220SCU	DQ77925	2024/8/5	2025/8/4
JD	Filter Switch Unit	DT7220FSU	DQ77928	2024/8/5	2025/8/4

** 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 is below:

802.11b Mode

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
4824.000	43.74	PK	H	8.73	52.47	74.00	21.53
4824.000	41.80	AV	H	8.73	50.53	54.00	3.47
4824.000	42.49	PK	V	8.73	51.22	74.00	22.78
4824.000	40.09	AV	V	8.73	48.82	54.00	5.18
7236.000	36.17	PK	H	11.40	47.57	74.00	26.43
7236.000	31.01	AV	H	11.40	42.41	54.00	11.59
7236.000	38.54	PK	V	11.40	49.94	74.00	24.06
7236.000	33.26	AV	V	11.40	44.66	54.00	9.34
Middle Channel: 2437 MHz							
4874.000	40.02	PK	H	8.99	49.01	74.00	24.99
4874.000	38.20	AV	H	8.99	47.19	54.00	6.81
4874.000	39.19	PK	V	8.99	48.18	74.00	25.82
4874.000	37.12	AV	V	8.99	46.11	54.00	7.89
7311.000	36.96	PK	H	11.52	48.48	74.00	25.52
7311.000	31.27	AV	H	11.52	42.79	54.00	11.21
7311.000	42.26	PK	V	11.52	53.78	74.00	20.22
7311.000	37.90	AV	V	11.52	49.42	54.00	4.58
High Channel: 2462 MHz							
4924.000	38.18	PK	H	8.88	47.06	74.00	26.94
4924.000	35.69	AV	H	8.88	44.57	54.00	9.43
4924.000	38.28	PK	V	8.88	47.16	74.00	26.84
4924.000	35.14	AV	V	8.88	44.02	54.00	9.98
7386.000	39.12	PK	H	11.54	50.66	74.00	23.34
7386.000	35.89	AV	H	11.54	47.43	54.00	6.57
7386.000	44.88	PK	V	11.54	56.42	74.00	17.58
7386.000	41.10	AV	V	11.54	52.64	54.00	1.36

802.11g Mode

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 2412 MHz							
4824.000	37.83	PK	H	8.73	46.56	74.00	27.44
4824.000	25.45	AV	H	8.73	34.18	54.00	19.82
4824.000	38.83	PK	V	8.73	47.56	74.00	26.44
4824.000	26.54	AV	V	8.73	35.27	54.00	18.73
7236.000	34.89	PK	H	11.40	46.29	74.00	27.71
7236.000	22.30	AV	H	11.40	33.70	54.00	20.30
7236.000	35.58	PK	V	11.40	46.98	74.00	27.02
7236.000	23.47	AV	V	11.40	34.87	54.00	19.13
Middle Channel: 2437 MHz							
4874.000	35.25	PK	H	8.99	44.24	74.00	29.76
4874.000	23.41	AV	H	8.99	32.40	54.00	21.60
4874.000	35.68	PK	V	8.99	44.67	74.00	29.33
4874.000	23.50	AV	V	8.99	32.49	54.00	21.51
7311.000	34.77	PK	H	11.52	46.29	74.00	27.71
7311.000	22.30	AV	H	11.52	33.82	54.00	20.18
7311.000	41.69	PK	V	11.52	53.21	74.00	20.79
7311.000	29.35	AV	V	11.52	40.87	54.00	13.13
High Channel: 2462 MHz							
4924.000	38.03	PK	H	8.88	46.91	74.00	27.09
4924.000	26.39	AV	H	8.88	35.27	54.00	18.73
4924.000	37.46	PK	V	8.88	46.34	74.00	27.66
4924.000	25.37	AV	V	8.88	34.25	54.00	19.75
7386.000	35.44	PK	H	11.54	46.98	74.00	27.02
7386.000	23.01	AV	H	11.54	34.55	54.00	19.45
7386.000	40.02	PK	V	11.54	51.56	74.00	22.44
7386.000	28.55	AV	V	11.54	40.09	54.00	13.91

802.11n ht20 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
4824.000	34.88	PK	H	8.73	43.61	74.00	30.39
4824.000	22.67	AV	H	8.73	31.40	54.00	22.60
4824.000	35.03	PK	V	8.73	43.76	74.00	30.24
4824.000	23.62	AV	V	8.73	32.35	54.00	21.65
7236.000	34.22	PK	H	11.40	45.62	74.00	28.38
7236.000	22.07	AV	H	11.40	33.47	54.00	20.53
7236.000	33.96	PK	V	11.40	45.36	74.00	28.64
7236.000	21.78	AV	V	11.40	33.18	54.00	20.82
Middle Channel:				2437	MHz		
4874.000	34.52	PK	H	8.99	43.51	74.00	30.49
4874.000	22.39	AV	H	8.99	31.38	54.00	22.62
4874.000	35.97	PK	V	8.99	44.96	74.00	29.04
4874.000	23.14	AV	V	8.99	32.13	54.00	21.87
7311.000	35.62	PK	H	11.52	47.14	74.00	26.86
7311.000	23.10	AV	H	11.52	34.62	54.00	19.38
7311.000	35.27	PK	V	11.52	46.79	74.00	27.21
7311.000	23.33	AV	V	11.52	34.85	54.00	19.15
High Channel:				2462	MHz		
4924.000	34.74	PK	H	8.88	43.62	74.00	30.38
4924.000	22.12	AV	H	8.88	31.00	54.00	23.00
4924.000	35.39	PK	V	8.88	44.27	74.00	29.73
4924.000	23.58	AV	V	8.88	32.46	54.00	21.54
7386.000	34.79	PK	H	11.54	46.33	74.00	27.67
7386.000	22.11	AV	H	11.54	33.65	54.00	20.35
7386.000	35.28	PK	V	11.54	46.82	74.00	27.18
7386.000	23.35	AV	V	11.54	34.89	54.00	19.11

802.11n ht40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2422	MHz		
4844.000	35.52	PK	H	8.97	44.49	74.00	29.51
4844.000	23.11	AV	H	8.97	32.08	54.00	21.92
4844.000	35.68	PK	V	8.97	44.65	74.00	29.35
4844.000	23.07	AV	V	8.97	32.04	54.00	21.96
7266.000	34.85	PK	H	11.43	46.28	74.00	27.72
7266.000	22.44	AV	H	11.43	33.87	54.00	20.13
7266.000	35.01	PK	V	11.43	46.44	74.00	27.56
7266.000	23.30	AV	V	11.43	34.73	54.00	19.27
Middle Channel:				2437	MHz		
4874.000	34.53	PK	H	8.99	43.52	74.00	30.48
4874.000	22.28	AV	H	8.99	31.27	54.00	22.73
4874.000	35.07	PK	V	8.99	44.06	74.00	29.94
4874.000	23.11	AV	V	8.99	32.10	54.00	21.90
7311.000	34.31	PK	H	11.52	45.83	74.00	28.17
7311.000	22.20	AV	H	11.52	33.72	54.00	20.28
7311.000	34.39	PK	V	11.52	45.91	74.00	28.09
7311.000	22.61	AV	V	11.52	34.13	54.00	19.87
High Channel:				2452	MHz		
4904.000	35.14	PK	H	8.91	44.05	74.00	29.95
4904.000	23.10	AV	H	8.91	32.01	54.00	21.99
4904.000	34.88	PK	V	8.91	43.79	74.00	30.21
4904.000	22.96	AV	V	8.91	31.87	54.00	22.13
7356.000	34.14	PK	H	11.68	45.82	74.00	28.18
7356.000	22.08	AV	H	11.68	33.76	54.00	20.24
7356.000	34.96	PK	V	11.68	46.64	74.00	27.36
7356.000	22.38	AV	V	11.68	34.06	54.00	19.94

802.11ax20 Mode:

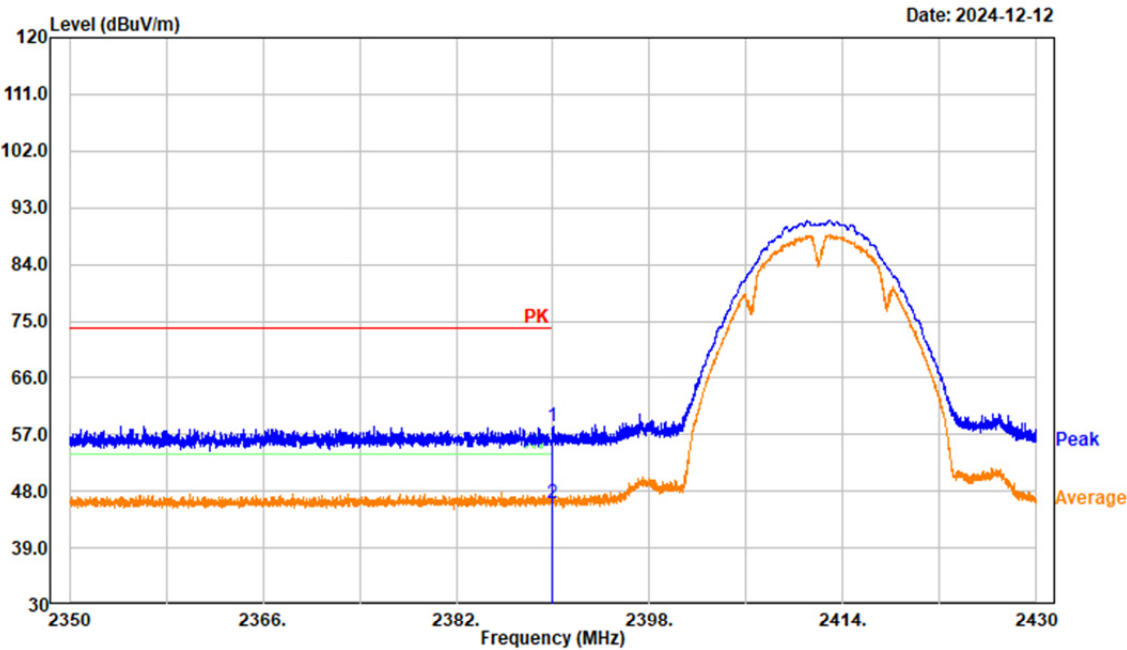
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2412	MHz		
4824.000	34.52	PK	H	8.73	43.25	74.00	30.75
4824.000	22.39	AV	H	8.73	31.12	54.00	22.88
4824.000	35.10	PK	V	8.73	43.83	74.00	30.17
4824.000	23.17	AV	V	8.73	31.90	54.00	22.10
7236.000	33.85	PK	H	11.40	45.25	74.00	28.75
7236.000	21.49	AV	H	11.40	32.89	54.00	21.11
7236.000	34.36	PK	V	11.40	45.76	74.00	28.24
7236.000	22.02	AV	V	11.40	33.42	54.00	20.58
Middle Channel:				2437	MHz		
4874.000	35.25	PK	H	8.99	44.24	74.00	29.76
4874.000	23.31	AV	H	8.99	32.30	54.00	21.70
4874.000	34.77	PK	V	8.99	43.76	74.00	30.24
4874.000	22.02	AV	V	8.99	31.01	54.00	22.99
7311.000	34.18	PK	H	11.52	45.70	74.00	28.30
7311.000	22.96	AV	H	11.52	34.48	54.00	19.52
7311.000	35.81	PK	V	11.52	47.33	74.00	26.67
7311.000	23.34	AV	V	11.52	34.86	54.00	19.14
High Channel:				2462	MHz		
4924.000	35.23	PK	H	8.88	44.11	74.00	29.89
4924.000	23.11	AV	H	8.88	31.99	54.00	22.01
4924.000	35.39	PK	V	8.88	44.27	74.00	29.73
4924.000	23.45	AV	V	8.88	32.33	54.00	21.67
7386.000	34.61	PK	H	11.54	46.15	74.00	27.85
7386.000	22.20	AV	H	11.54	33.74	54.00	20.26
7386.000	35.85	PK	V	11.54	47.39	74.00	26.61
7386.000	23.94	AV	V	11.54	35.48	54.00	18.52

802.11ax40 Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel:				2422	MHz		
4844.000	34.28	PK	H	8.97	43.25	74.00	30.75
4844.000	22.20	AV	H	8.97	31.17	54.00	22.83
4844.000	35.13	PK	V	8.97	44.10	74.00	29.90
4844.000	23.03	AV	V	8.97	32.00	54.00	22.00
7266.000	35.49	PK	H	11.43	46.92	74.00	27.08
7266.000	23.41	AV	H	11.43	34.84	54.00	19.16
7266.000	34.57	PK	V	11.43	46.00	74.00	28.00
7266.000	22.20	AV	V	11.43	33.63	54.00	20.37
Middle Channel:				2437	MHz		
4874.000	35.66	PK	H	8.99	44.65	74.00	29.35
4874.000	23.85	AV	H	8.99	32.84	54.00	21.16
4874.000	36.01	PK	V	8.99	45.00	74.00	29.00
4874.000	24.21	AV	V	8.99	33.20	54.00	20.80
7311.000	35.67	PK	H	11.52	47.19	74.00	26.81
7311.000	23.10	AV	H	11.52	34.62	54.00	19.38
7311.000	34.74	PK	V	11.52	46.26	74.00	27.74
7311.000	22.33	AV	V	11.52	33.85	54.00	20.15
High Channel:				2452	MHz		
4904.000	35.89	PK	H	8.91	44.80	74.00	29.20
4904.000	23.64	AV	H	8.91	32.55	54.00	21.45
4904.000	36.32	PK	V	8.91	45.23	74.00	28.77
4904.000	24.12	AV	V	8.91	33.03	54.00	20.97
7356.000	34.74	PK	H	11.68	46.42	74.00	27.58
7356.000	22.35	AV	H	11.68	34.03	54.00	19.97
7356.000	35.08	PK	V	11.68	46.76	74.00	27.24
7356.000	23.69	AV	V	11.68	35.37	54.00	18.63

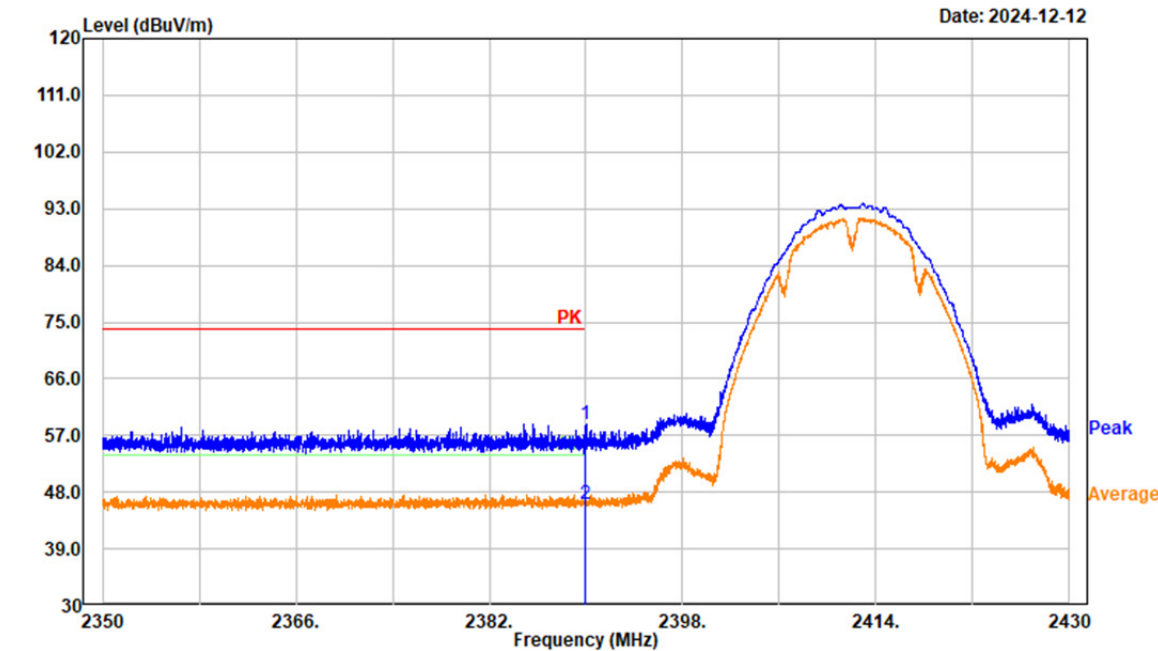
Band edge test plots

Project No.: 2403Z107562E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
Polarization: Horizontal
Note: 802.11b Mode Low Channel 2412MHz



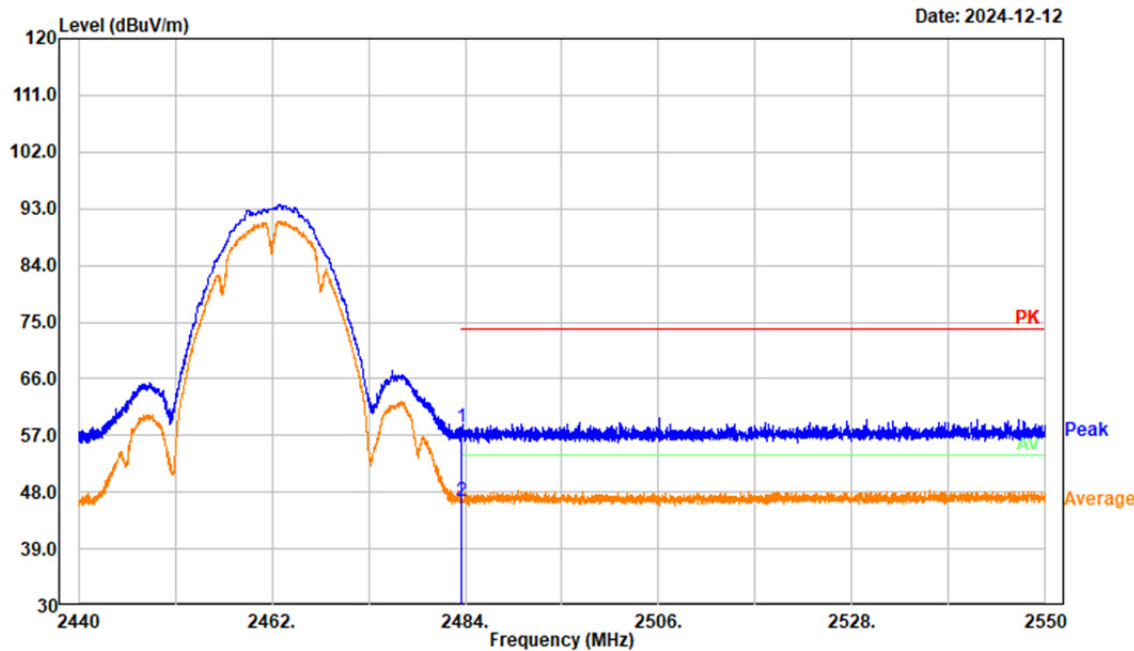
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.000	26.81	31.46	58.27	74.00	15.73	Peak
2	2390.000	14.54	31.46	46.00	54.00	8.00	Average

Project No.: 2403Z107562E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
Polarization: Vertical
Note: 802.11b Mode Low Channel 2412MHz



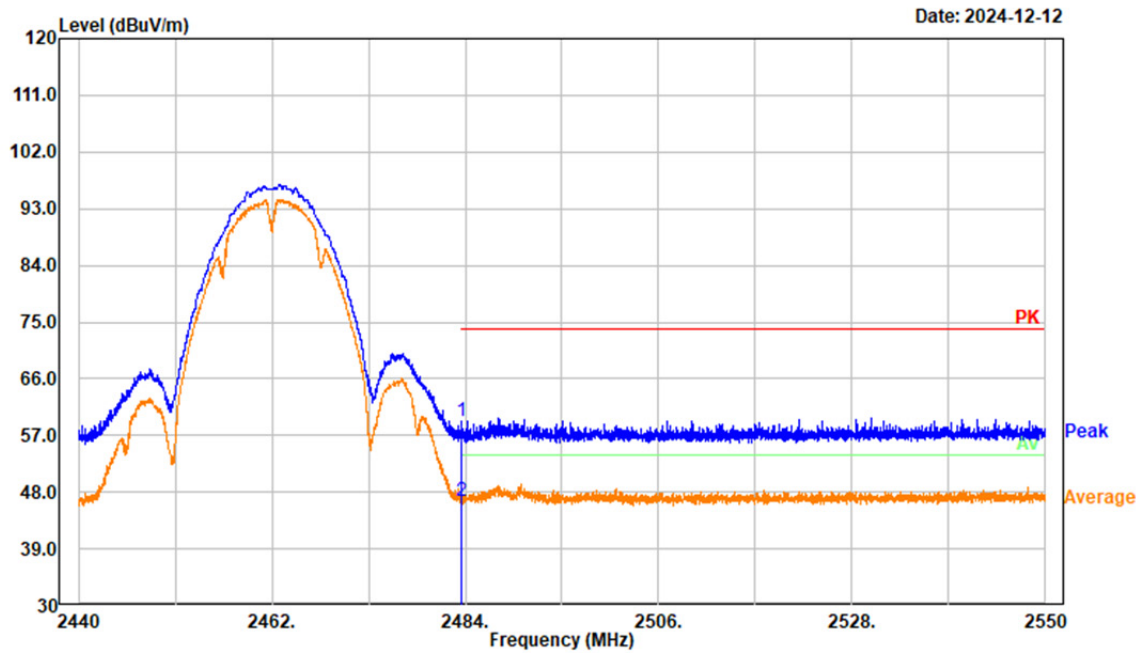
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.000	27.39	31.46	58.85	74.00	15.15	Peak
2	2390.000	14.55	31.46	46.01	54.00	7.99	Average

Project No.: 2403Z107562E-RF
 Tester: Mack Huang
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
 Polarization: Horizontal
 Note: 802.11b Mode High Channel 2462MHz



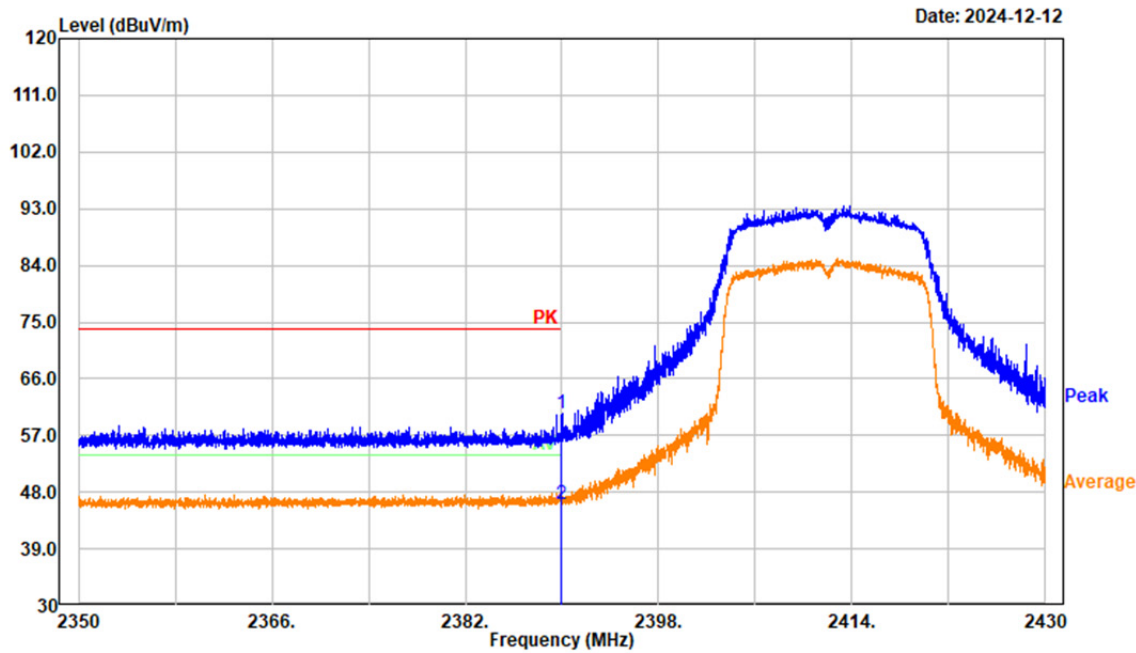
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.500	26.87	31.50	58.37	74.00	15.63	Peak
2	2483.500	15.00	31.50	46.50	54.00	7.50	Average

Project No.: 2403Z107562E-RF
 Tester: Mack Huang
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
 Polarization: Vertical
 Note: 802.11b Mode High Channel 2462MHz



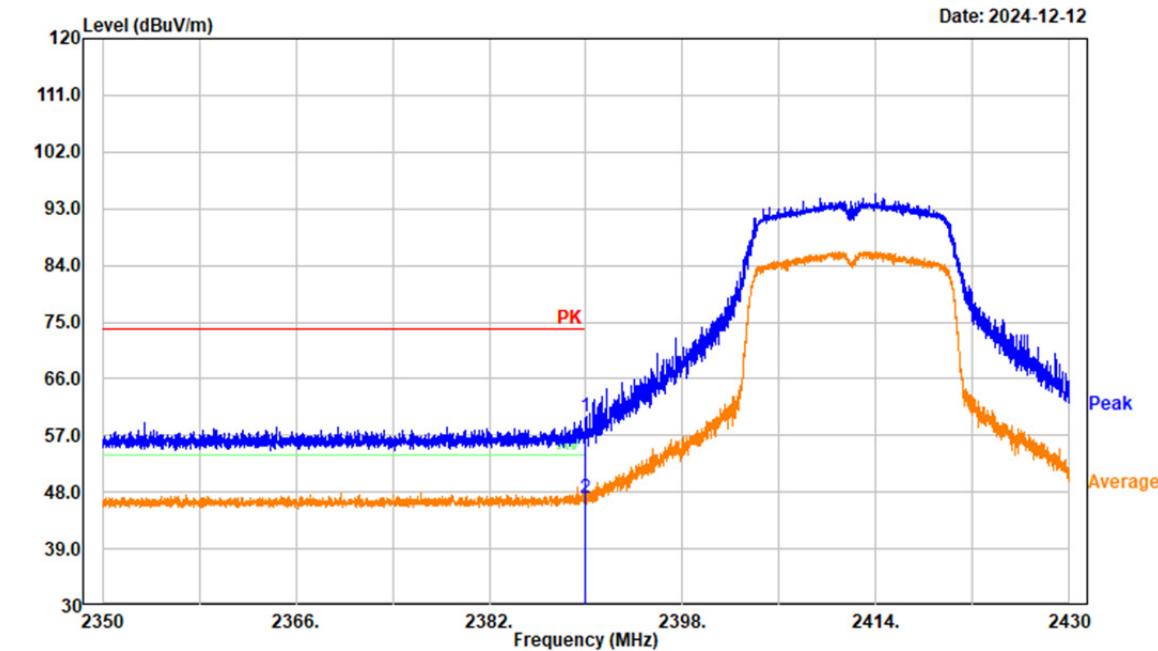
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBuV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2483.500	27.80	31.50	59.30	74.00	14.70	Peak
2	2483.500	15.00	31.50	46.50	54.00	7.50	Average

Project No.: 2403Z107562E-RF
 Tester: Mack Huang
 Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
 Polarization: Horizontal
 Note: 802.11g Mode Low Channel 2412MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.000	29.13	31.46	60.59	74.00	13.41	Peak
2	2390.000	14.74	31.46	46.20	54.00	7.80	Average

Project No.: 2403Z107562E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
Polarization: Vertical
Note: 802.11g Mode Low Channel 2412MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	2390.000	28.60	31.46	60.06	74.00	13.94	Peak
2	2390.000	15.54	31.46	47.00	54.00	7.00	Average