中认信通
CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)

ACCREDITED
TESTING LABORATORY
CERTIFICATE # 6356.01

TEST REPORT

Applicant: **JIANGMEN TODAAIR ELECTRONIC CO.,LTD**

Address: Building 8,WanfengYuan Industrial Area,Jiangmen City,Guangdong Province,529000

FCC ID: **2BNCU-TD-56304T-RS**

Product Name: **Wireless bridge**

Standard(s): **47 CFR Part 15, Subpart E(15.407)**
ANSI C63.10-2013
KDB 789033 D02 General U-NII Test Procedures New Rules v02r01

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: **2503P40909E-RF-00A**

Date Of Issue: **2025-02-26**

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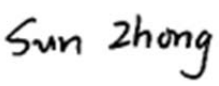

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Test Facility

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

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.

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DOCUMENT REVISION HISTORY

Revision Number	Report Number	Description of Revision	Date of Revision
1.0	2503P40909E-RF-00A	Original Report	2025-02-26

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	Wireless bridge
EUT Model:	TD-56304T-RS
Operation Frequency:	Band 1: 5180-5240 MHz (802.11a/n ht20) 5190-5230 MHz (802.11n ht40) Band 4: 5745-5825 MHz (802.11a/n ht20) 5755-5795 MHz (802.11n ht40)
Maximum Average Conducted Output Power:	16.61 dBm in 5150-5250 MHz Band 22.97 dBm in 5725-5850 MHz Band
Modulation Type:	802.11a/n: OFDM-BPSK, QPSK, 16QAM, 64QAM
Rated Input Voltage:	DC 12-52V from adapter or 48-52V dc from POE
Sample Number:	2X4M-1(for RF Conducted Test) 2X4M-2(for Conducted emissions & Radiated Spurious Emissions Test)
EUT Received Date:	2025.1.10
EUT Received Status:	Good

1.1.2 Operation Frequency Detail

For 802.11a/n ht20:

5150-5250MHz Band		5725-5850MHz Band	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
36	5180	149	5745
40	5200	153	5765
44	5220	157	5785
48	5240	161	5805
/	/	165	5825

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

Test Channel	Test Frequency (MHz)	
	5150-5250 MHz	**5725-5850 MHz**
Lowest	5180	5745
Middle	5200	5785
Highest	5240	5825

For 802.11n ht40:

5150-5250MHz		5725-5850MHz	
Channel	**Frequency (MHz)**	**Channel**	**Frequency (MHz)**
38	5190	151	5755
46	5230	159	5795

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

Test Channel	Test Frequency (MHz)	
	5150-5250 MHz	5725-5850 MHz
Lowest	5190	5755
Middle	/	/
Highest	5230	5795

1.1.3 Antenna Information Detail▲

Antenna	Antenna Type	Input impedance (Ohm)	Frequency Range	Antenna Gain (dBi)
ANT1(Chain 0)	PCB	50	5.15~5.25GHz	8.78
			5.725~5.85 GHz	7.56
ANT2(Chain 1)	PCB	50	5.15~5.25GHz	6.09
			5.725~5.85 GHz	3.83

The Method of §15.203 Compliance:

☒ Antenna was permanently attached to the unit.

☐ Antenna uses 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
Adapter	RISUNIC Technology (ShenZhen) Co., Ltd.	RA040-4800500US

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.
Equipment Modifications:	No
EUT Exercise Software:	artgui.exe

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

5150-5250 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
802.11a	Lowest	5180	6Mbps	19	19
	Middle	5200	6Mbps	19	19
	Highest	5240	6Mbps	19	19
802.11n ht20	Lowest	5180	MCS8	19	19
	Middle	5200	MCS8	19	19
	Highest	5240	MCS8	19	19
802.11n ht40	Lowest	5190	MCS8	19	19
	Highest	5230	MCS8	19	19

5725-5850 MHz Band:

Test Modes	Test Channels	Test Frequency (MHz)	Data rate	Power Level Setting	
				Chain 0	Chain 1
802.11a	Lowest	5745	6Mbps	20	20
	Middle	5785	6Mbps	20	20
	Highest	5825	6Mbps	20	20
802.11n ht20	Lowest	5745	MCS8	20	20
	Middle	5785	MCS8	20	20
	Highest	5825	MCS8	20	20
802.11n ht40	Lowest	5755	MCS8	20	20
	Highest	5795	MCS8	20	20

Note:
1. The system support 802.11a/n ht20/n ht40.
2. 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.
3. The device supports SISO and MIMO in in all modes, per pretest, MIMO mode was the worst mode and reported for all modes.

1.2.2 Support Equipment List and Details

Manufacturer	Description	Model	Serial Number
Milesight	Camera1	MS-C2961-X12TPE	Unknown
Milesight	Camera2	MS-C2961-X12TPE	Unknown
GOSPELL	POE	G0778B-480-100-PSE	Unknown
Huawei	Router	HG8245Q2	HG8245-001
Unknown	Solar Controller	PMC-20A	Unknown

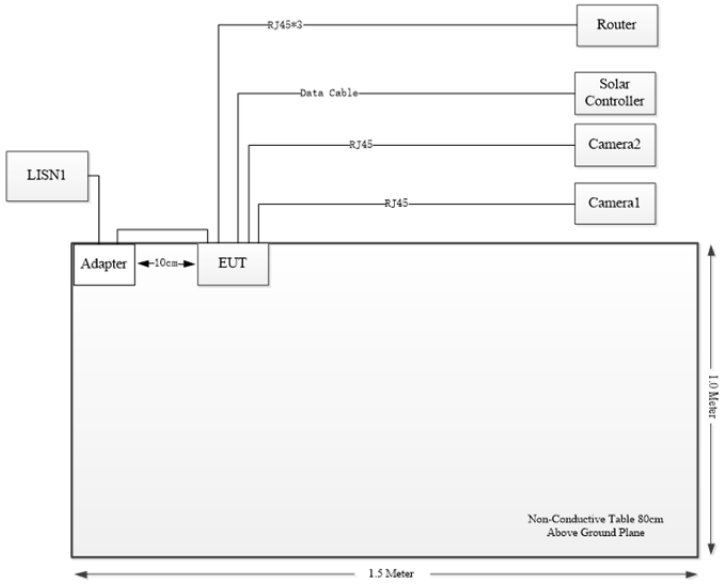
1.2.3 Support Cable List and Details

Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.2	Adapter	EUT
RJ45 Cable	No	No	3	EUT	Camera1
RJ45 Cable	No	No	3	EUT	Camera2
RJ45 Cable*3	No	No	3	EUT	Router
Data Cable	No	No	2	EUT	Solar Controller
Power Cable	No	No	1.2	POE	EUT
Power Cable	No	No	1.2	POE	LISN

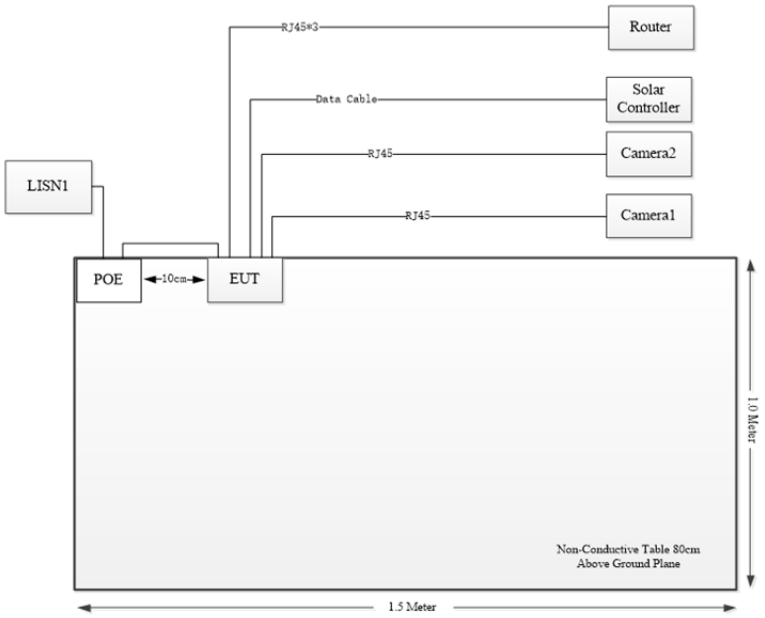
1.2.4 Block Diagram of Test Setup

AC line conducted emissions:

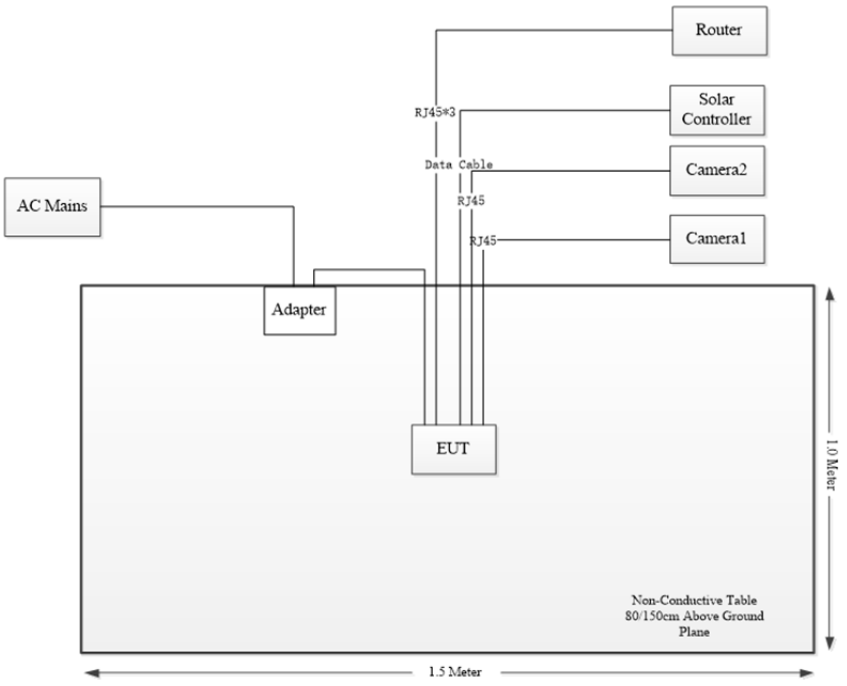
Power by adapter



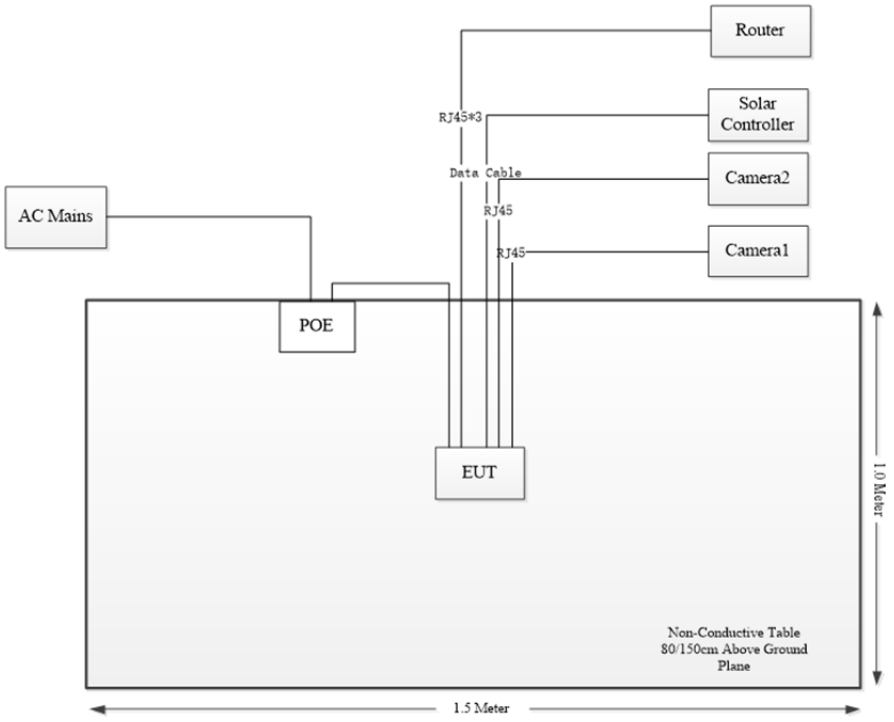
Power by POE



Spurious Emissions:
Power by adapter



Power by POE


Router
Solar Controller
Camera2
Camera1
RJ45*3
Data Cable
RJ45
RJ45
AC Mains
POE
EUT
1.0 Meter
Non-Conductive Table
80/150cm Above Ground
Plane
1.5 Meter

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	±5 %
RF output power, conducted	±0.61dB
Power Spectral Density, conducted	±0.61 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	±1.26 dB
Temperature	±1℃
Humidity	±5%
DC and low frequency voltages	±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 §15.407(b)	Undesirable Emission& Restricted Bands	PASS
FCC§15.407(a) (e)	Emission Bandwidth	PASS
FCC§15.407(a) (e)	99% Occupied Bandwidth	PASS
FCC§15.407 (a)	Maximum Conducted Output Power	PASS
FCC§15.407 (a)	Power Spectral Density	PASS
C63.10 §11.6	Duty Cycle	PASS
FCC §1.1310&§2.1091&§15.407 (f)	RF Exposure	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 μH/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.

	Conducted limit (dBμV)	
Frequency of emission (MHz)	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:

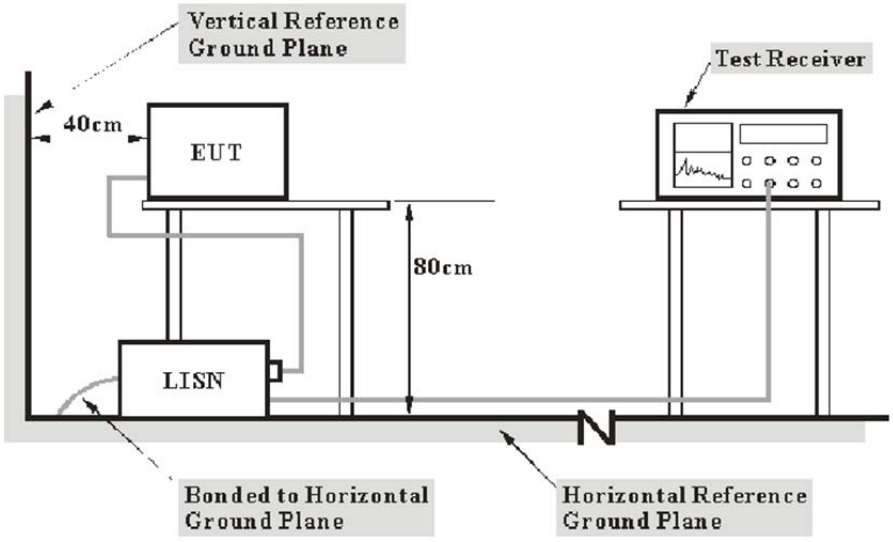
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

(2) For all other carrier current systems: 1000 μV within the frequency band 535-1705 kHz, as measured using a 50 μH/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, obtainig 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

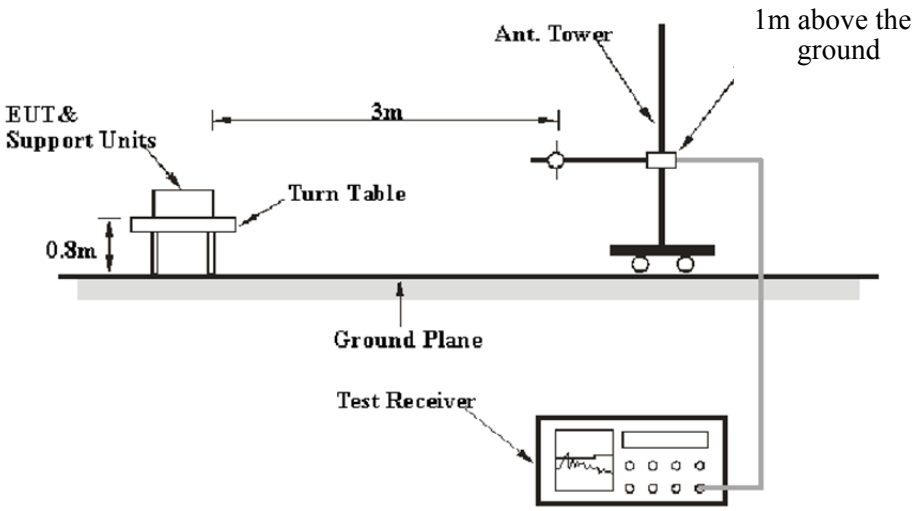
3.2.1 Applicable Standard

FCC §15.407 (b);

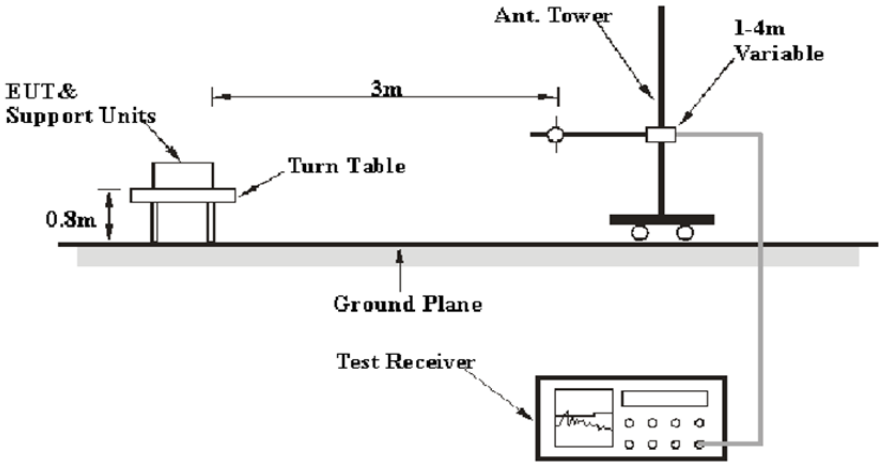
Undesirable emission limits. Except as shown in paragraph (b)(7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:
(1) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
(2) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
(3) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of –27 dBm/MHz.
(4) For transmitters operating solely in the 5.725-5.850 GHz band:
(i) All emissions shall be limited to a level of –27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.
(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in § 15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.
(8) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.
(9) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in § 15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in § 15.207.
(10) The provisions of § 15.205 apply to intentional radiators operating under this section.
(11) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.
(c) The device shall automatically discontinue transmission in case of either absence of information to transmit or operational failure. These provisions are not intended to preclude the transmission of control or signaling information or the use of repetitive codes used by certain digital technologies to complete frame or burst intervals. Applicants shall include in their application for equipment authorization a description of how this requirement is met.

3.2.2 EUT Setup

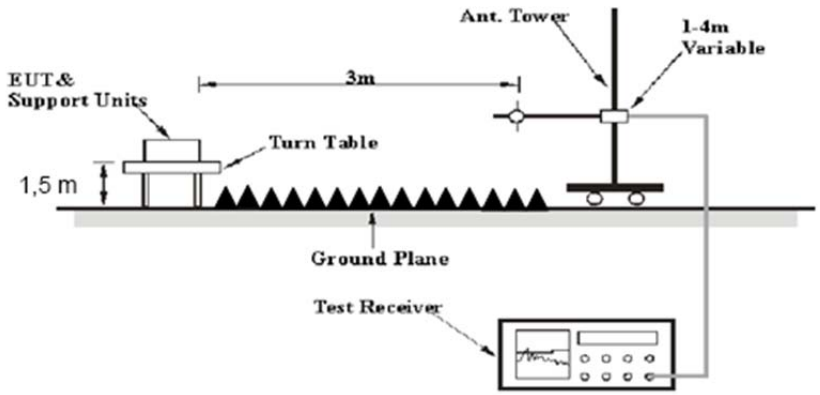
9kHz - 30MHz:



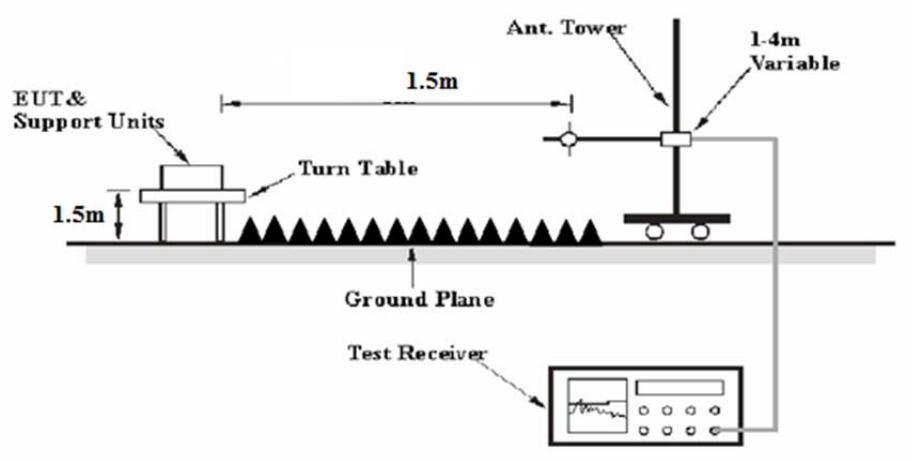
30MHz - 1GHz:



1GHz – 26.5GHz:



26.5GHz - 40 GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was FCC 15.209, FCC 15.407 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 40 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
30MHz – 1000 MHz	120 kHz	300 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

1GHz- 40GHz:
Pre-scan:

Measurement	Duty cycle	RBW	Video B/W	Detector
PK	Any	1MHz	3 MHz	Peak
Ave.	>98%	1MHz	5 kHz	Peak
	<98%	1MHz	≥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	≥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

During the radiated emission test, the adapter was connected to the first AC floor outlet.

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.

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01, emission shall be computed as: E [dBμV/m] = EIRP[dBm] + 95.2, for d = 3 meters.

According to C63.10, the above 1G test result shall be extrapolated to the specified distance using an extrapolation Factor of 20dB/decade from 3m to 1.5m
Distance extrapolation Factor =20 log (specific distance [3m]/test distance [1.5m]) dB= 6.02 dB

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

For 9kHz-26.5GHz:
Factor = Antenna Factor + Cable Loss- Amplifier Gain

For 26.5GHz-40GHz
Factor = Antenna Factor + Cable Loss- Amplifier Gain -Distance extrapolation Factor

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

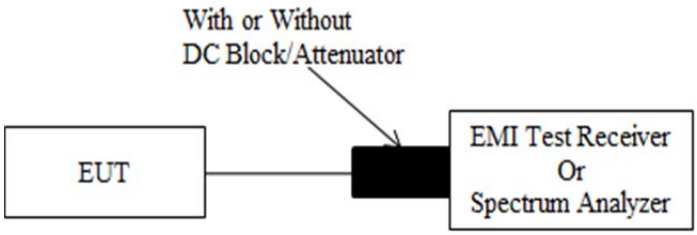
3.3 Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.407 (a), (h)
(h)(2) Radar Detection Function of Dynamic Frequency Selection (DFS). U-NII devices operating with any part of its 26 dB emission bandwidth in the 5.25-5.35 GHz and 5.47-5.725 GHz bands shall employ a DFS radar detection mechanism to detect the presence of radar systems and to avoid co-channel operation with radar systems.

FCC §15.407 (e)
Within the 5.725-5.850 GHz and 5.850-5.895 GHz bands, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

3.3.2 EUT Setup



3.3.3 Test Procedure

26dB Emission Bandwidth:

According to ANSI C63.10-2013 Section 12.4.1

a) Set RBW = approximately 1% of the emission bandwidth.
b) Set the VBW > RBW.
c) Detector = peak.
d) Trace mode = max hold
e) Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the instrument. Readjust RBW and repeat measurement as needed until the RBW/EBW ratio is approximately 1%.

6 dB emission bandwidth:

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

a) Set RBW = 100 kHz.
b) Set the video bandwidth (VBW) ≥ 3 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.

Note: The automatic bandwidth measurement capability of a spectrum analyzer or EMI receiver may be employed if it implements the functionality described in this section. For devices that use channel aggregation refer to III.A and III.C for determining emission bandwidth.

99% Occupied Bandwidth:

According to ANSI C63.10-2013 Section 12.4.2&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 (OBW/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).

3.4 Maximum Conducted Output Power

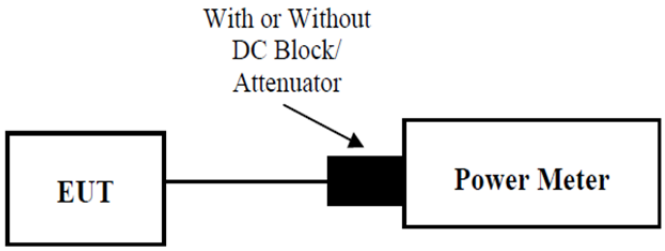
3.4.1 Applicable Standard

FCC §15.407(a) (1)(i)
For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

FCC §15.407(a) (2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.4.2 EUT Setup



3.4.3 Test Procedure

According to ANSI C63.10-2013 Section 12.3.3.1
Method PM-G is measurement using a gated RF average power meter.
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.

3.5 Maximum Power Spectral Density

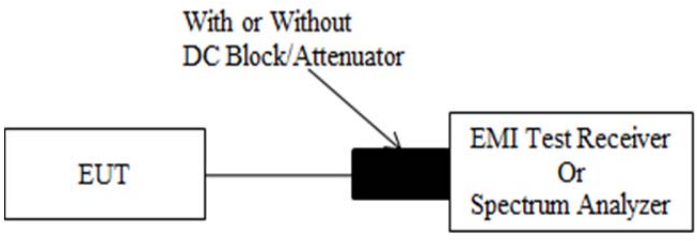
3.5.1 Applicable Standard

FCC §15.407(a) (1)(i)
For an outdoor access point operating in the band 5.15-5.25 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W provided the maximum antenna gain does not exceed 6 dBi. In addition, the maximum power spectral density shall not exceed 17 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. The maximum e.i.r.p. at any elevation angle above 30 degrees as measured from the horizon must not exceed 125 mW (21 dBm).

FCC §15.407(a) (2)
For the 5.25-5.35 GHz and 5.47-5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW or 11 dBm + 10 log B, where B is the 26 dB emission bandwidth in megahertz. In addition, the maximum power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

FCC §15.407(a) (3)(i)
For the band 5.725-5.850 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

3.5.2 EUT Setup



3.5.3 Test Procedure

According to KDB 789033 D02 General UNII Test Procedures New Rules v02r01

Duty cycle ≥98%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-1 should be applied.

Duty cycle <98%, duty cycle variations are less than ±2%

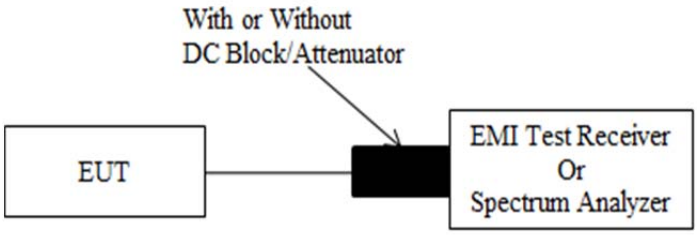
KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-2 should be applied.

Duty cycle <98%, duty cycle variations exceed ±2%

KDB 789033 D02 General UNII Test Procedures New Rules v02r01 Method SA-3 should be applied.

3.6 Duty Cycle

3.6.1 EUT Setup



3.6.2 Test Procedure

According to ANSI C63.10-2013 Section 12.2

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 ≥ OBW if possible; otherwise, set RBW to the largest available value.
3) Set VBW ≥ 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 ≤ 16.7 μs.)

3.7 Antenna Requirement

3.7.1 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.

3.7.2 Judgment

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

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	2X4M-2	Test Date:	2025/1/22
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode, 802.11a 5745MHz)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (℃)	24.4	Relative Humidity: (%)	41	ATM Pressure: (kPa)	101.2

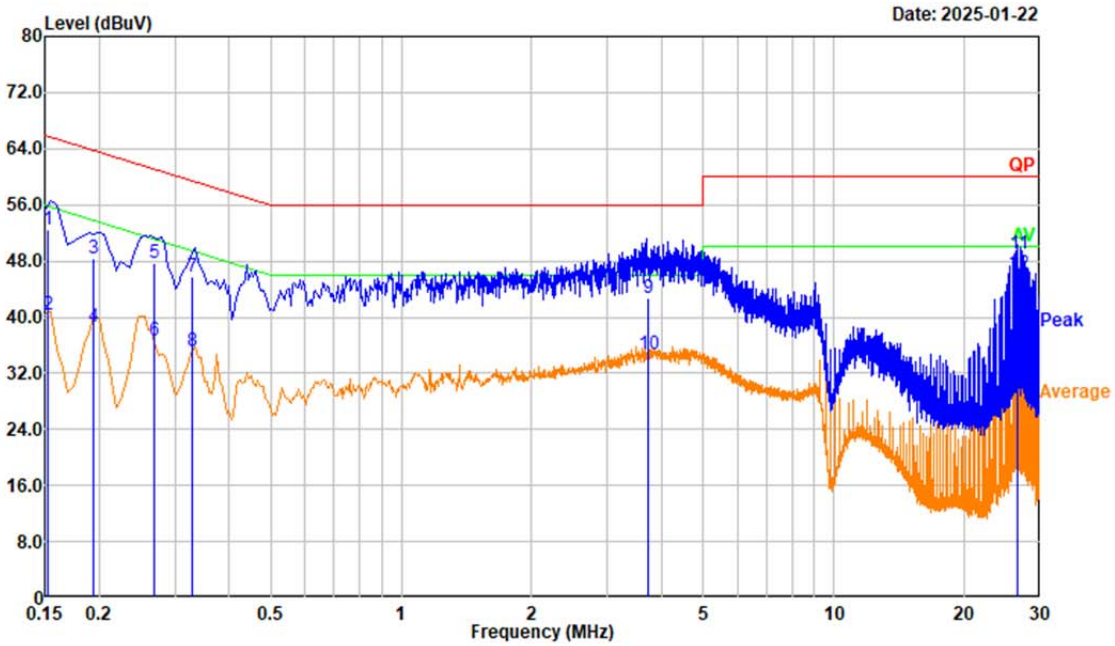
Test Equipment List and Details:

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	2025/1/6	2026/1/5
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).*

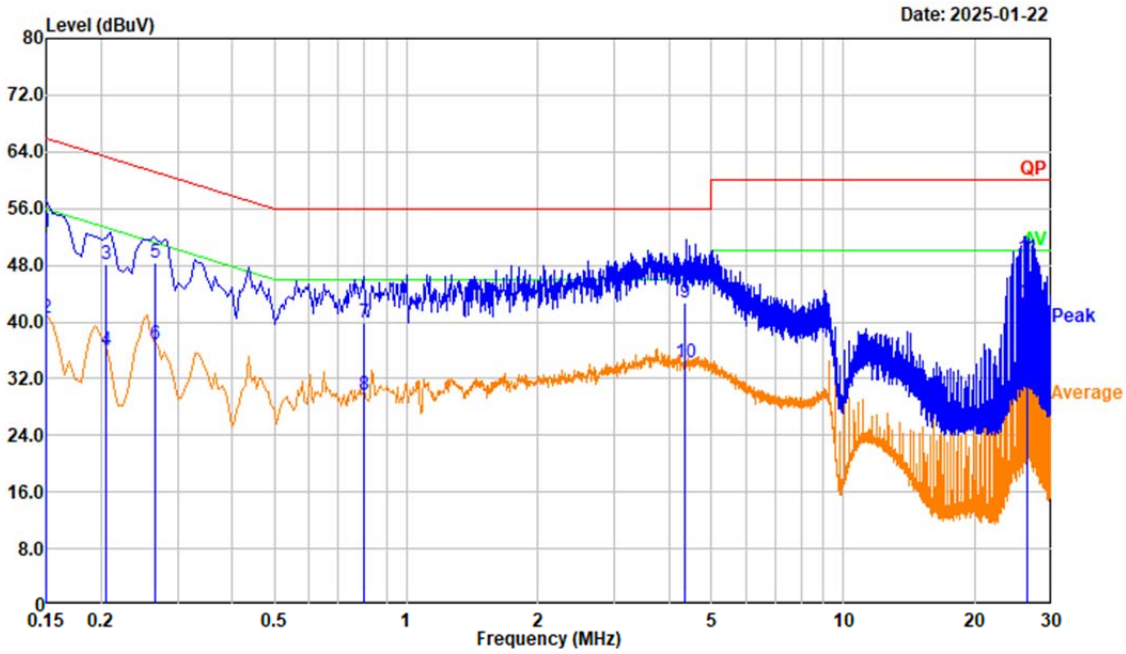
Power by adapter

```
Project No.: 2503P40909E-RF
     Tester: David Huang
  Condition: IFBW:9    kHz   Meas Time:0.025sec
       Port: Line
       Note: Transmitting (power by adapter)
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.152	42.16	10.39	52.55	65.87	13.32	QP
2	0.152	29.91	10.39	40.30	55.87	15.57	Average
3	0.194	38.23	10.06	48.29	63.85	15.56	QP
4	0.194	28.44	10.06	38.50	53.85	15.35	Average
5	0.270	37.62	10.13	47.75	61.13	13.38	QP
6	0.270	26.47	10.13	36.60	51.13	14.53	Average
7	0.330	35.54	10.23	45.77	59.46	13.69	QP
8	0.330	24.93	10.23	35.16	49.46	14.30	Average
9	3.724	32.39	10.32	42.71	56.00	13.29	QP
10	3.724	24.31	10.32	34.63	46.00	11.37	Average
11	26.643	39.22	9.71	48.93	60.00	11.07	QP
12	26.643	36.36	9.71	46.07	50.00	3.93	Average

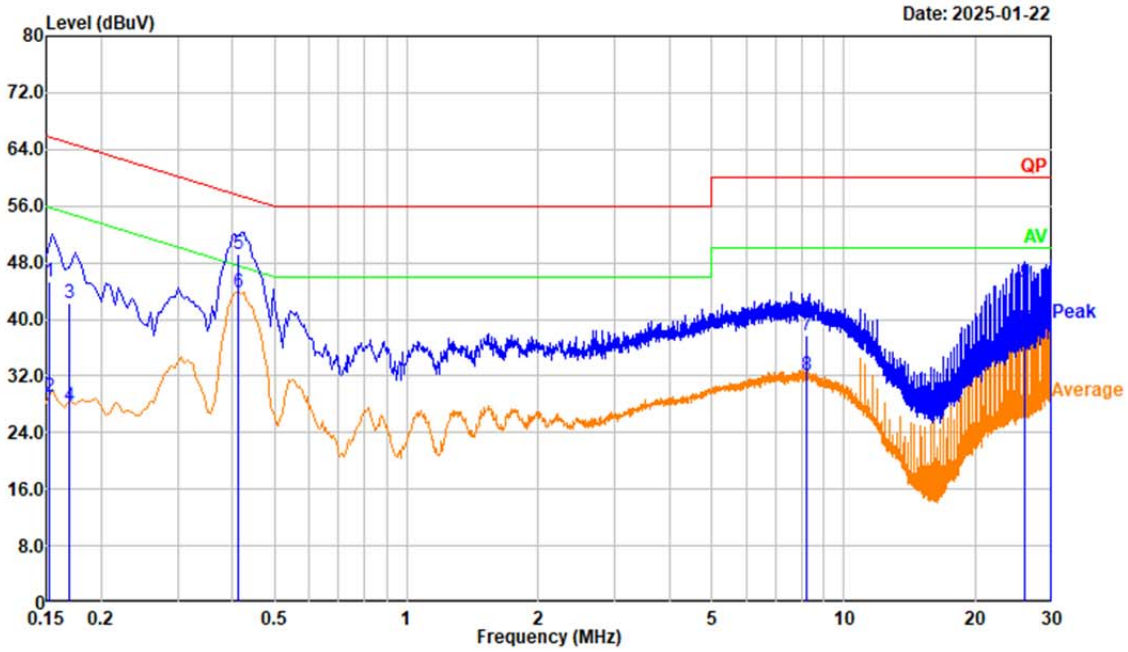
Project No.: 2503P40909E-RF
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: neutral
Note: Transmitting (power by adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.151	42.17	10.51	52.68	65.97	13.29	QP
2	0.151	29.99	10.51	40.50	55.97	15.47	Average
3	0.205	37.75	10.31	48.06	63.40	15.34	QP
4	0.205	25.70	10.31	36.01	53.40	17.39	Average
5	0.267	37.98	10.35	48.33	61.21	12.88	QP
6	0.267	26.42	10.35	36.77	51.21	14.44	Average
7	0.801	29.53	10.31	39.84	56.00	16.16	QP
8	0.801	19.39	10.31	29.70	46.00	16.30	Average
9	4.341	32.50	10.13	42.63	56.00	13.37	QP
10	4.341	24.19	10.13	34.32	46.00	11.68	Average
11	26.382	38.87	10.18	49.05	60.00	10.95	QP
12	26.382	32.61	10.18	42.79	50.00	7.21	Average

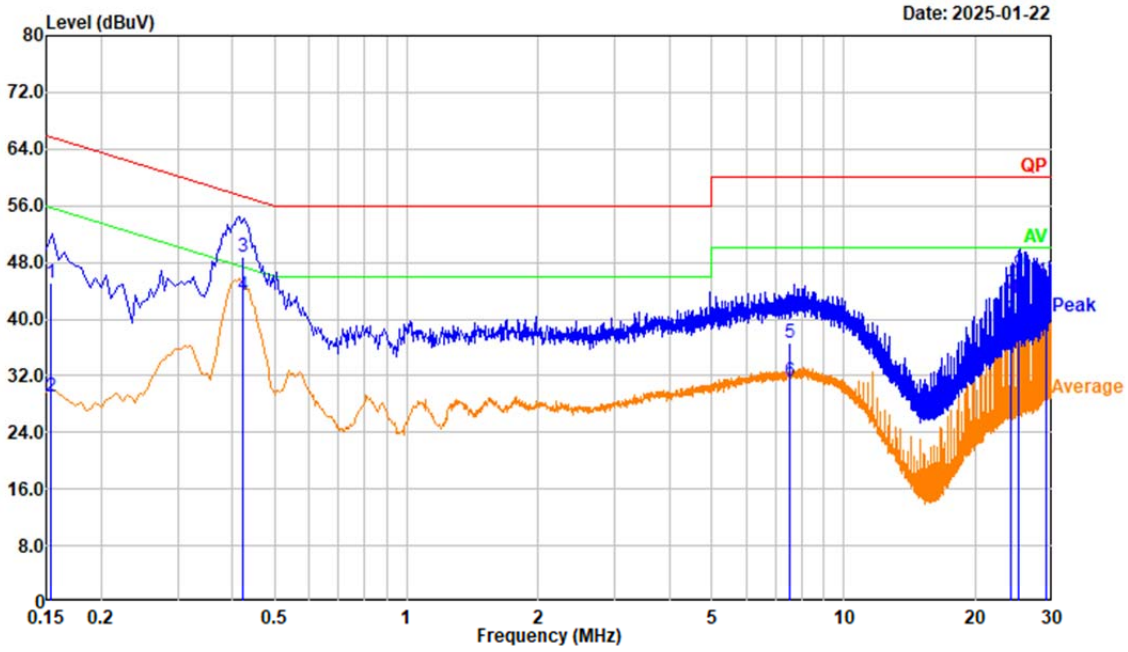
Power by POE

```
Project No.: 2503P40909E-RF
     Tester: David Huang
  Condition: IFBW:9    kHz   Meas Time:0.025sec
       Port: Line
       Note: Transmitting (power by POE)
```



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.153	34.98	10.39	45.37	65.86	20.49	QP
2	0.153	18.69	10.39	29.08	55.86	26.78	Average
3	0.170	31.95	10.25	42.20	64.97	22.77	QP
4	0.170	17.41	10.25	27.66	54.97	27.31	Average
5	0.413	38.76	10.37	49.13	57.58	8.45	QP
6	0.413	33.41	10.37	43.78	47.58	3.80	Average
7	8.224	27.29	10.38	37.67	60.00	22.33	QP
8	8.224	21.68	10.38	32.06	50.00	17.94	Average
9	25.920	35.43	9.74	45.17	60.00	14.83	QP
10	25.920	28.89	9.74	38.63	50.00	11.37	Average
11	29.808	33.76	9.56	43.32	60.00	16.68	QP
12	29.808	26.92	9.56	36.48	50.00	13.52	Average

Project No.: 2503P40909E-RF
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: neutral
Note: Transmitting (power by POE)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB)	Result (dBµV)	Limit (dBµV)	Margin (dB)	Detector
1	0.154	34.60	10.49	45.09	65.77	20.68	QP
2	0.154	18.57	10.49	29.06	55.77	26.71	Average
3	0.423	38.31	10.46	48.77	57.39	8.62	QP
4	0.423	32.87	10.46	43.33	47.39	4.06	Average
5	7.497	26.63	10.07	36.70	60.00	23.30	QP
6	7.497	21.12	10.07	31.19	50.00	18.81	Average
7	24.122	33.30	10.19	43.49	60.00	16.51	QP
8	24.122	29.64	10.19	39.83	50.00	10.17	Average
9	25.159	36.22	10.18	46.40	60.00	13.60	QP
10	25.159	32.84	10.18	43.02	50.00	6.98	Average
11	29.048	35.16	10.15	45.31	60.00	14.69	QP
12	29.048	30.28	10.15	40.43	50.00	9.57	Average

4.2 Radiation Spurious Emissions

4.2.1 9 kHz – 1 GHz

Sample Number:	2X4M-2	Test Date:	2025/2/12
Test Site:	966-2	Test Mode:	Transmitting (maximum output power mode, 802.11a 5745MHz)
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.3	Relative Humidity: (%)	54	ATM Pressure: (kPa)	101.8

Test Equipment List and Details:

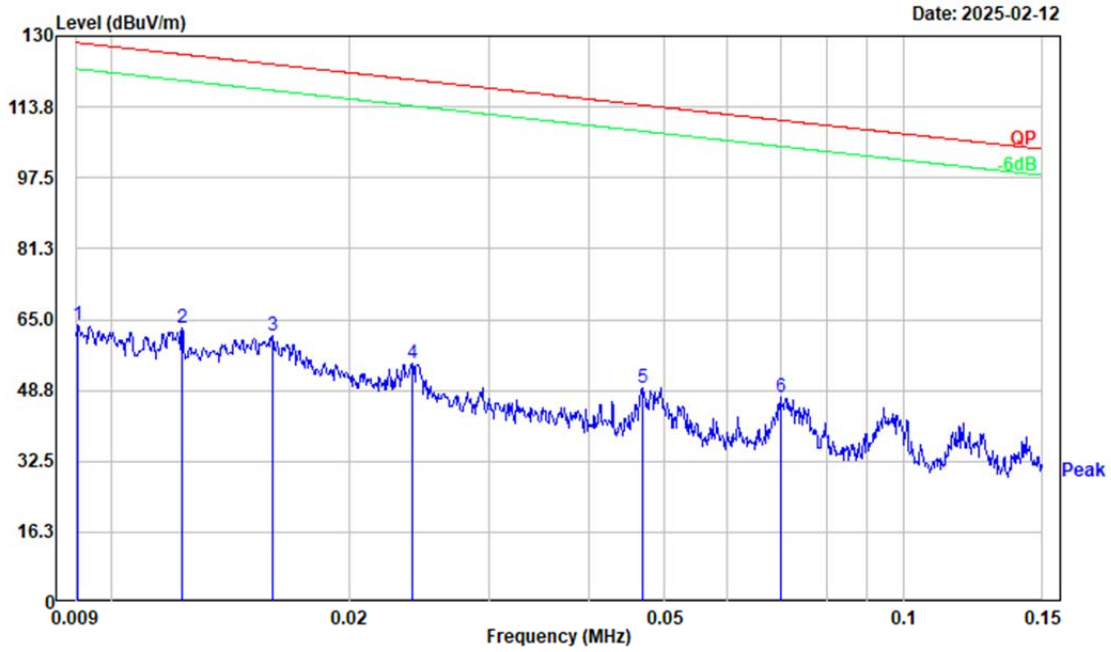
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2023/12/1	2026/11/30
BACL	Loop Antenna	1313-1A	3110611	2023/12/4	2026/12/3
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0300-01	2025/1/10	2026/1/9
Daruikang	Coaxial Cable	BNC-JJ-RG58	C-0500-01	2025/1/10	2026/1/9
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:

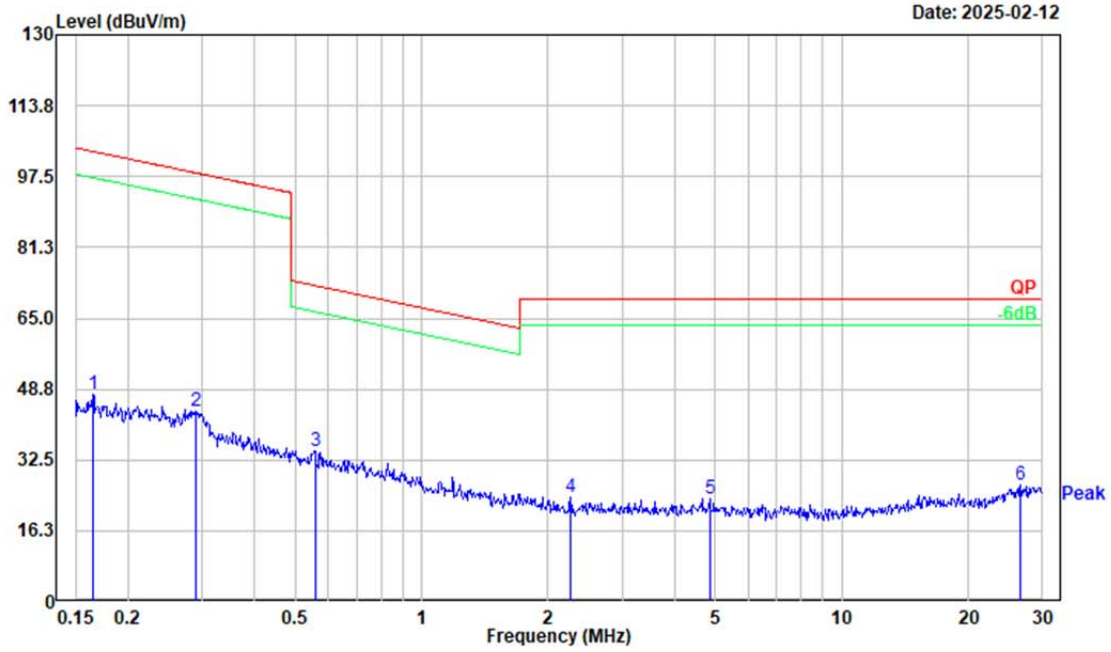
Power by adapter

```
Project No.: 2503P40909E-RF
     Tester: Roinin Fu
  Condition: RBW:0.3  kHz  VBW:1    kHz  SWT:0.1  sec
Polarization: Parallel
       Note: Transmitting (power by adapter)
```



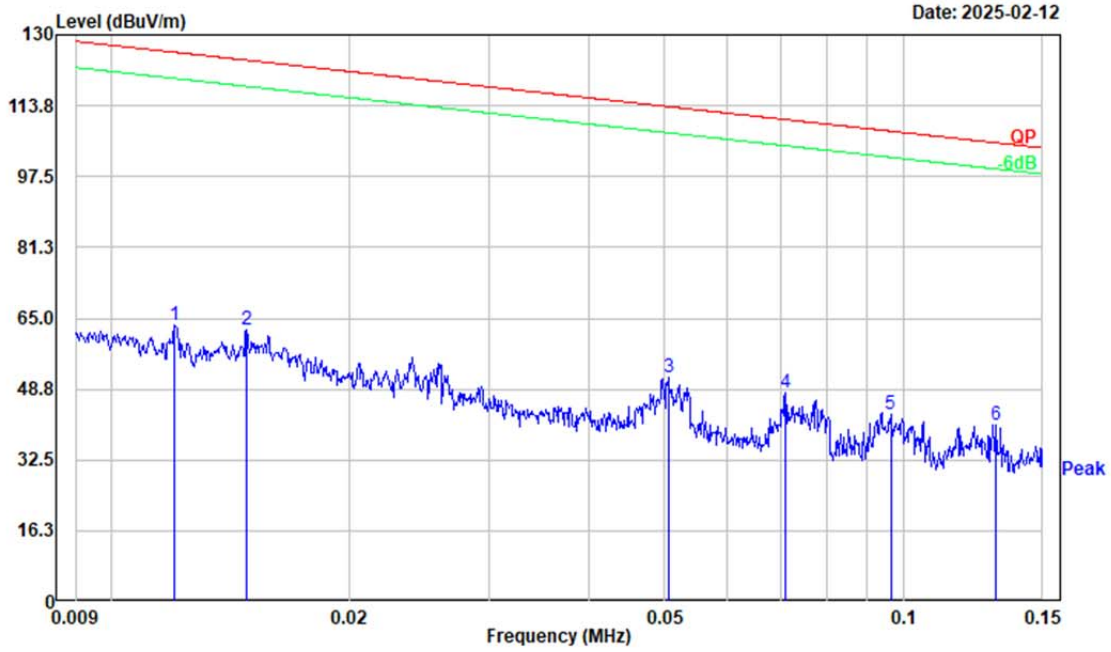
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.009	28.04	35.63	63.67	128.45	64.78	Peak
2	0.012	29.61	33.33	62.94	125.83	62.89	Peak
3	0.016	29.77	31.51	61.28	123.53	62.25	Peak
4	0.024	27.22	27.57	54.79	119.99	65.20	Peak
5	0.047	28.16	21.11	49.27	114.20	64.93	Peak
6	0.070	29.40	17.72	47.12	110.70	63.58	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting (power by adapter)



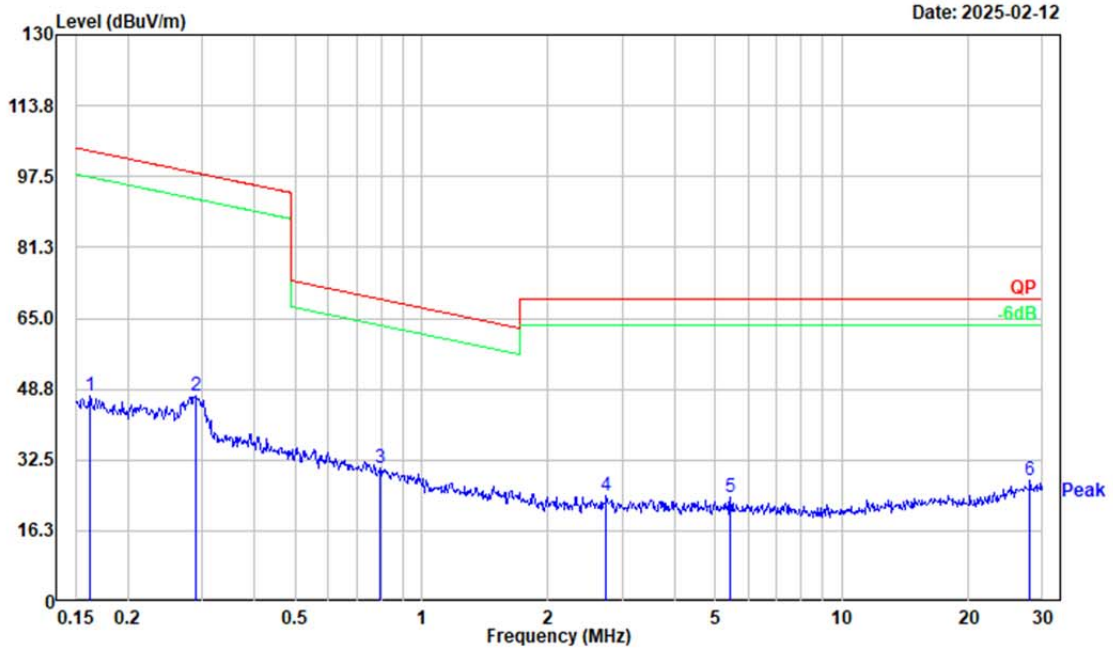
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.165	35.76	11.63	47.39	103.25	55.86	Peak
2	0.289	37.88	5.87	43.75	98.38	54.63	Peak
3	0.558	34.13	0.30	34.43	72.65	38.22	Peak
4	2.261	31.94	-7.89	24.05	69.54	45.49	Peak
5	4.848	32.52	-8.87	23.65	69.54	45.89	Peak
6	26.558	34.38	-7.48	26.90	69.54	42.64	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting (power by adapter)



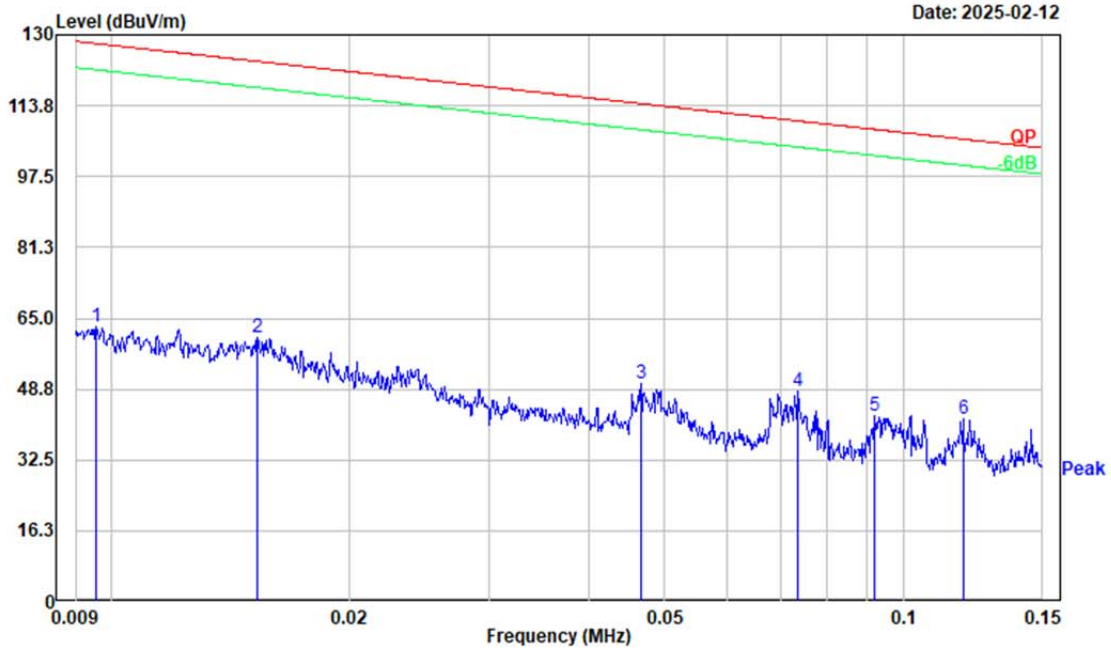
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.012	29.79	33.45	63.24	126.00	62.76	Peak
2	0.015	30.21	32.08	62.29	124.19	61.90	Peak
3	0.050	31.12	20.37	51.49	113.54	62.05	Peak
4	0.071	30.24	17.58	47.82	110.58	62.76	Peak
5	0.096	28.04	14.95	42.99	107.92	64.93	Peak
6	0.131	27.28	13.21	40.49	105.26	64.77	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting (power by adapter)



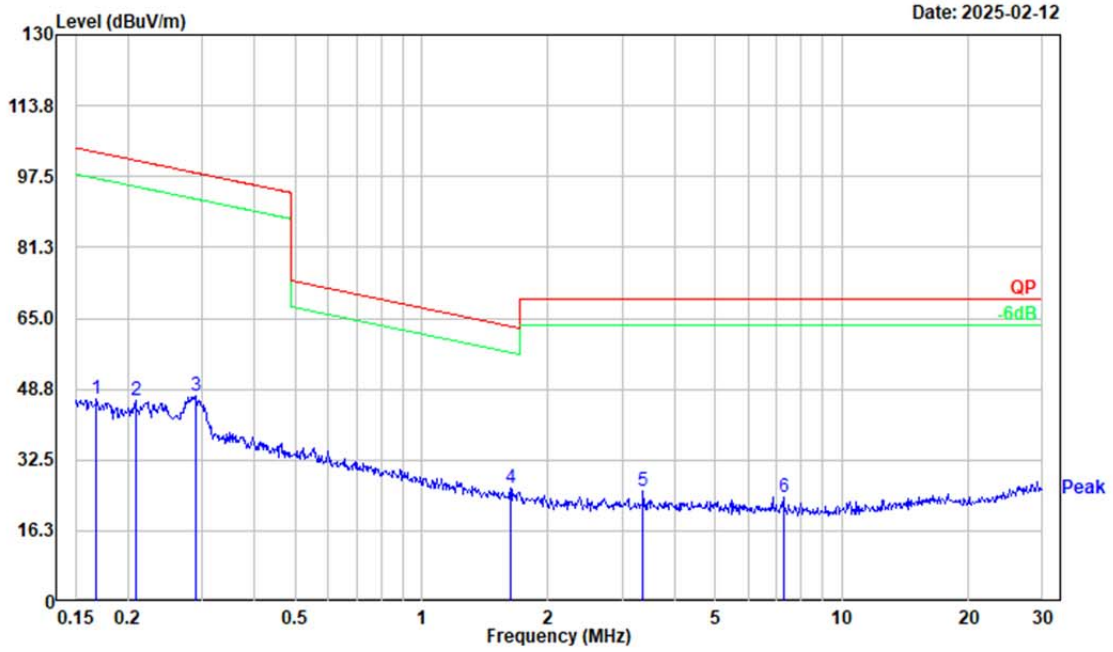
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.162	35.60	11.75	47.35	103.39	56.04	Peak
2	0.289	41.21	5.87	47.08	98.38	51.30	Peak
3	0.796	33.17	-2.45	30.72	69.50	38.78	Peak
4	2.750	32.61	-8.16	24.45	69.54	45.09	Peak
5	5.419	32.68	-8.89	23.79	69.54	45.75	Peak
6	28.003	35.10	-7.39	27.71	69.54	41.83	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting (power by adapter)



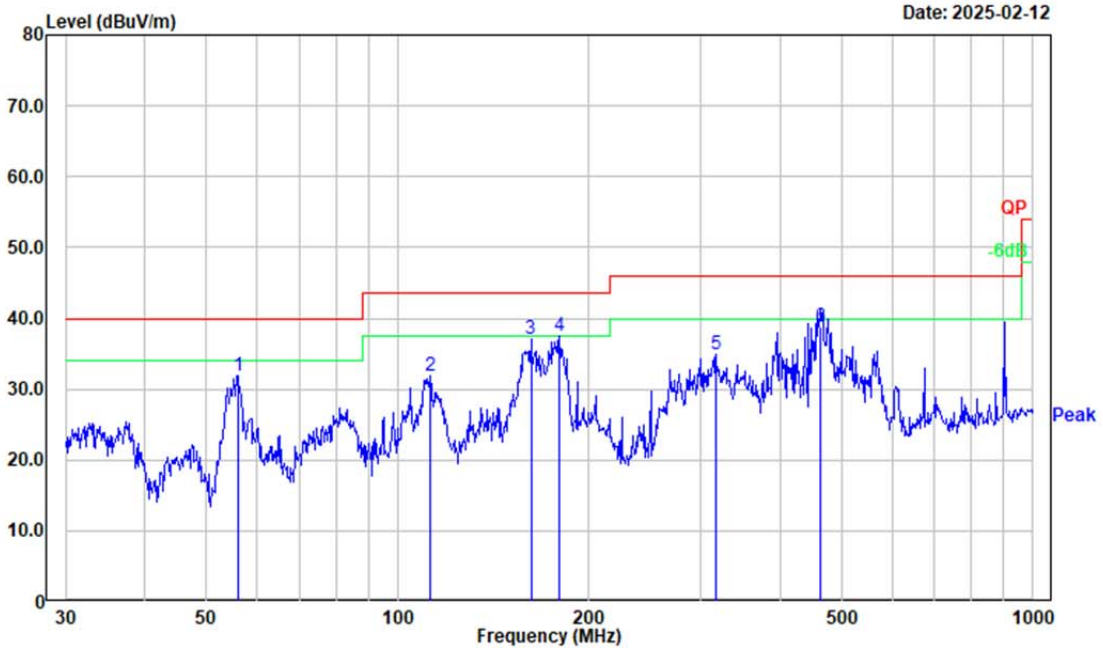
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.010	28.05	34.99	63.04	127.98	64.94	Peak
2	0.015	28.89	31.86	60.75	123.93	63.18	Peak
3	0.047	28.90	21.14	50.04	114.22	64.18	Peak
4	0.074	30.94	17.22	48.16	110.27	62.11	Peak
5	0.092	27.32	15.31	42.63	108.31	65.68	Peak
6	0.119	28.14	13.76	41.90	106.09	64.19	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting (power by adapter)



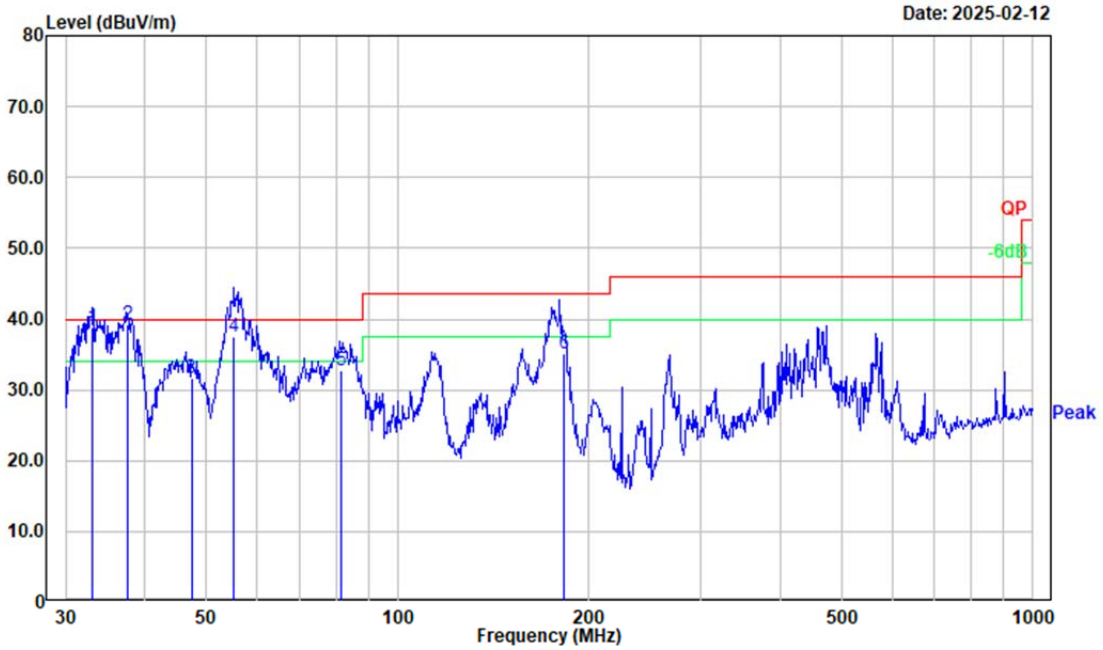
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.169	35.01	11.46	46.47	103.07	56.60	Peak
2	0.208	36.50	9.61	46.11	101.23	55.12	Peak
3	0.291	41.47	5.79	47.26	98.33	51.07	Peak
4	1.628	32.35	-6.42	25.93	63.15	37.22	Peak
5	3.364	33.91	-8.51	25.40	69.54	44.14	Peak
6	7.252	32.76	-8.74	24.02	69.54	45.52	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: horizontal
Note: Transmitting (power by adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	56.001	49.75	-17.78	31.97	40.00	8.03	Peak
2	112.524	43.79	-11.89	31.90	43.50	11.60	Peak
3	162.041	49.08	-12.08	37.00	43.50	6.50	Peak
4	180.017	50.93	-13.51	37.42	43.50	6.08	Peak
5	316.589	45.10	-10.13	34.97	46.00	11.03	Peak
6	463.970	45.26	-6.56	38.70	46.00	7.30	QP

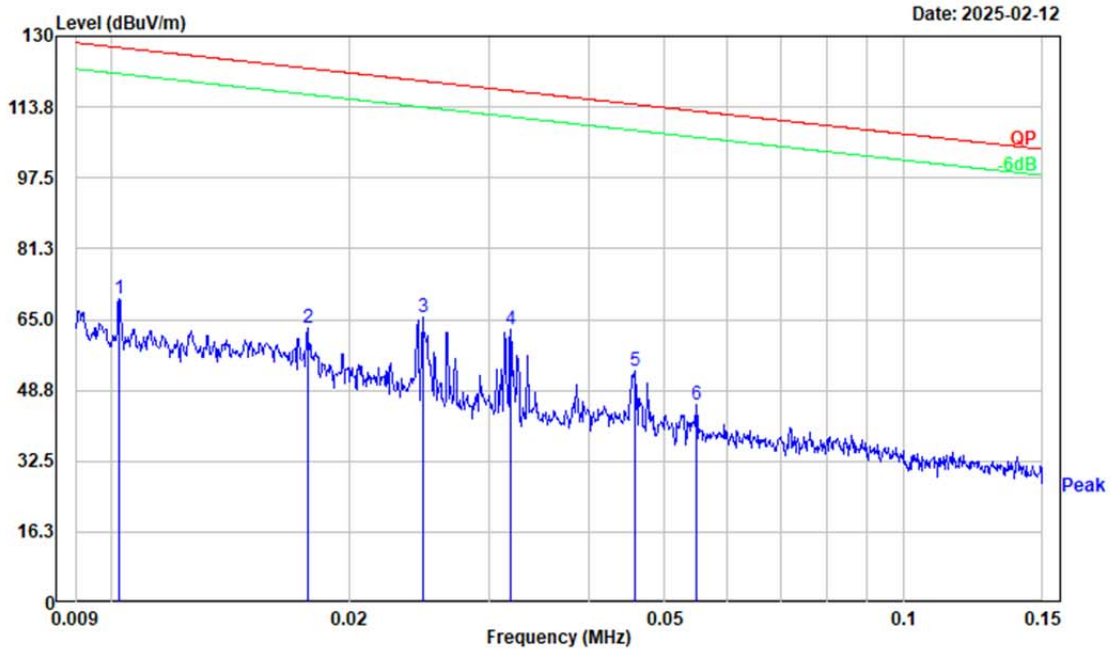
Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting (power by adapter)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	33.137	45.03	-6.14	38.89	40.00	1.11	QP
2	37.523	48.73	-9.47	39.26	40.00	0.74	QP
3	47.337	47.79	-16.13	31.66	40.00	8.34	QP
4	55.318	55.36	-17.75	37.61	40.00	2.39	QP
5	81.611	49.92	-17.26	32.66	40.00	7.34	QP
6	182.203	48.68	-13.60	35.08	43.50	8.42	QP

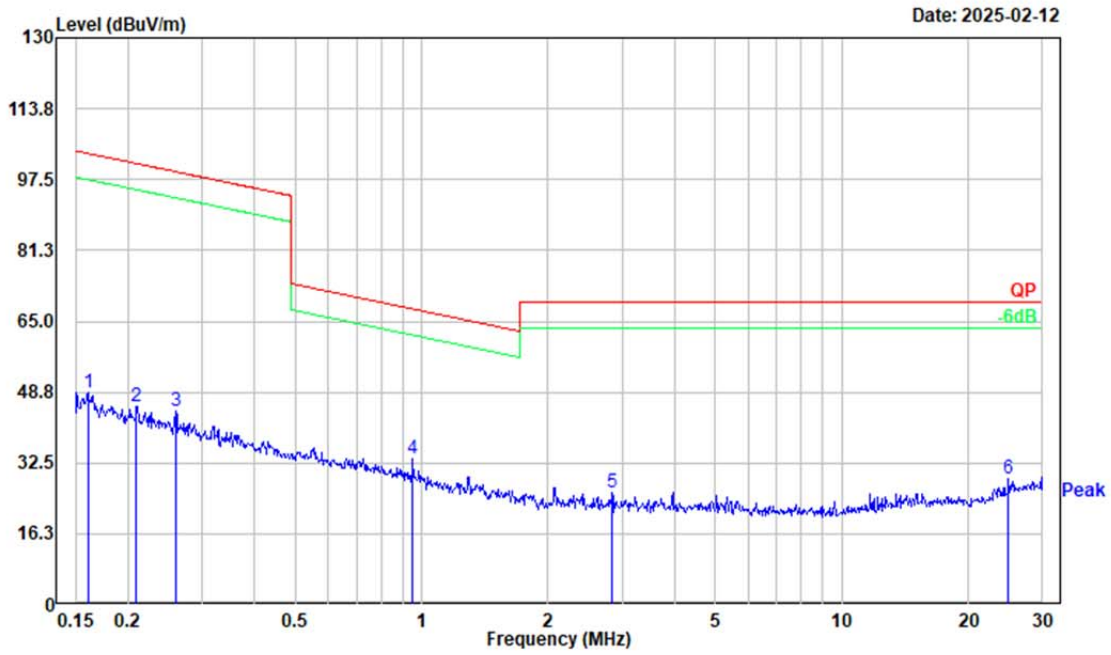
Power by POE

```
Project No.: 2503P40909E-RF
     Tester: Roinin Fu
  Condition: RBW:0.3  kHz  VBW:1    kHz  SWT:0.1  sec
Polarization: Parallel
       Note: Transmitting (power by POE)
```



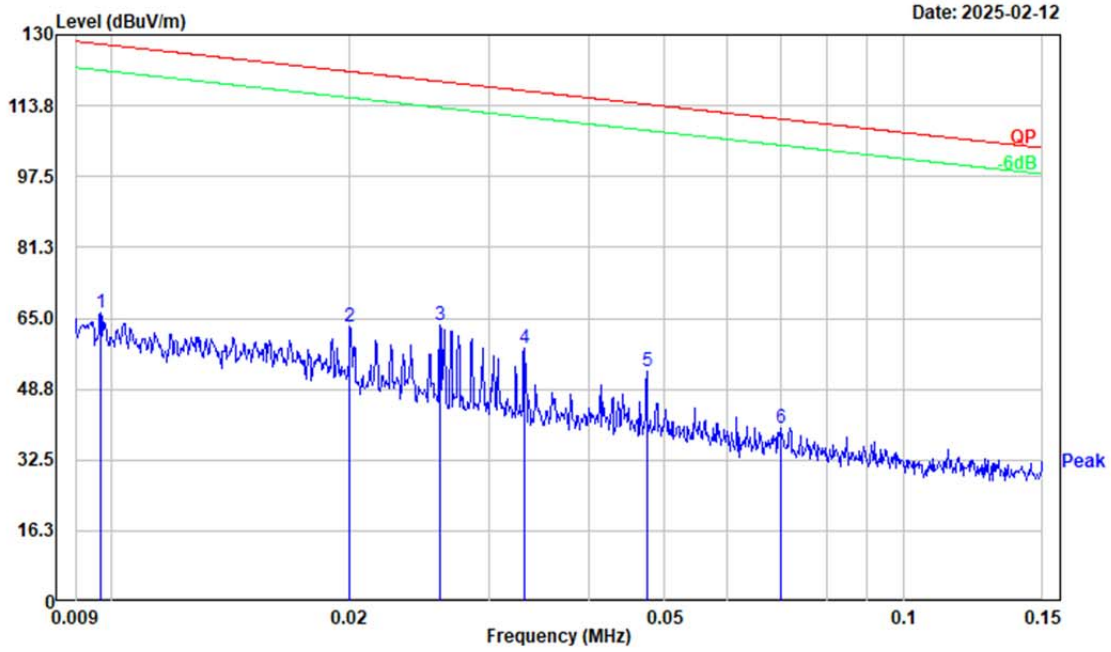
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.010	35.36	34.33	69.69	127.42	57.73	Peak
2	0.018	32.40	30.68	63.08	122.65	59.57	Peak
3	0.025	38.39	27.23	65.62	119.75	54.13	Peak
4	0.032	38.41	24.24	62.65	117.52	54.87	Peak
5	0.046	31.98	21.33	53.31	114.40	61.09	Peak
6	0.055	25.66	19.79	45.45	112.83	67.38	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting (power by POE)



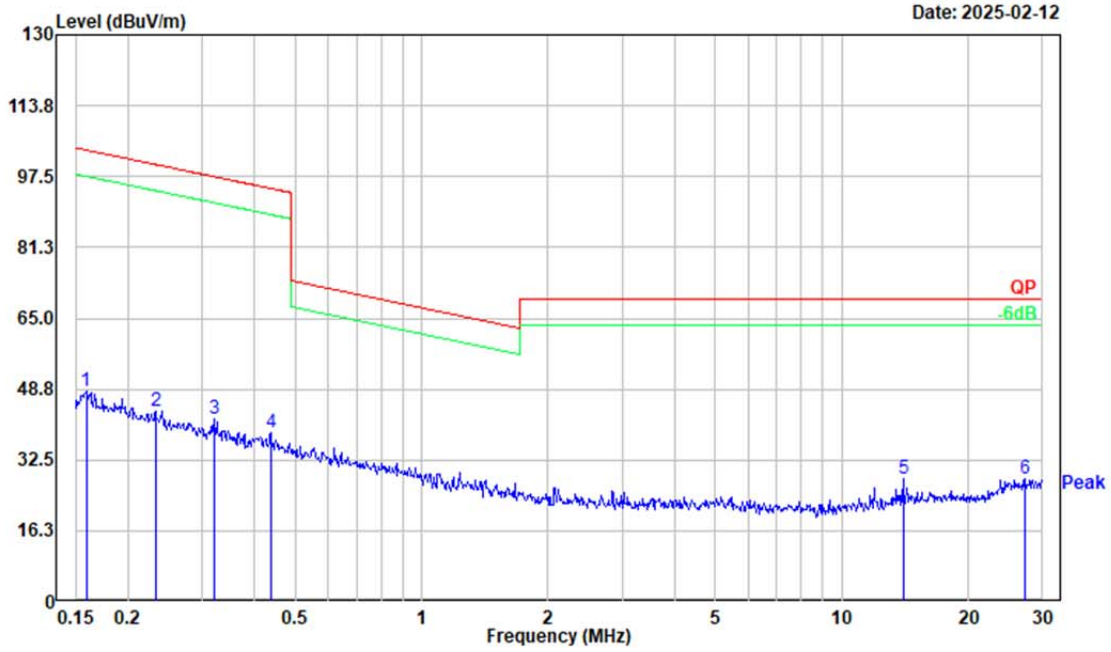
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.161	36.81	11.83	48.64	103.48	54.84	Peak
2	0.209	35.78	9.56	45.34	101.18	55.84	Peak
3	0.260	37.12	7.21	44.33	99.30	54.97	Peak
4	0.953	37.41	-3.80	33.61	67.90	34.29	Peak
5	2.839	33.91	-8.21	25.70	69.54	43.84	Peak
6	24.922	36.66	-7.80	28.86	69.54	40.68	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting (power by POE)



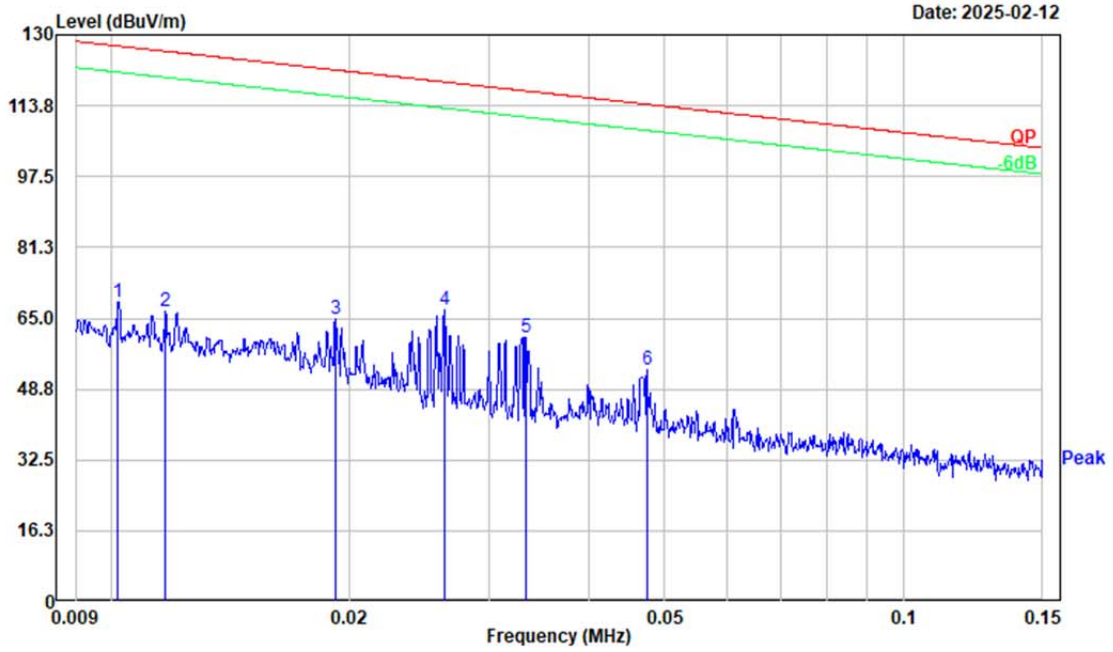
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.010	31.30	34.85	66.15	127.88	61.73	Peak
2	0.020	33.51	29.54	63.05	121.58	58.53	Peak
3	0.026	36.69	26.60	63.29	119.31	56.02	Peak
4	0.033	34.30	23.97	58.27	117.18	58.91	Peak
5	0.047	32.02	20.97	52.99	114.08	61.09	Peak
6	0.070	22.18	17.69	39.87	110.68	70.81	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting (power by POE)



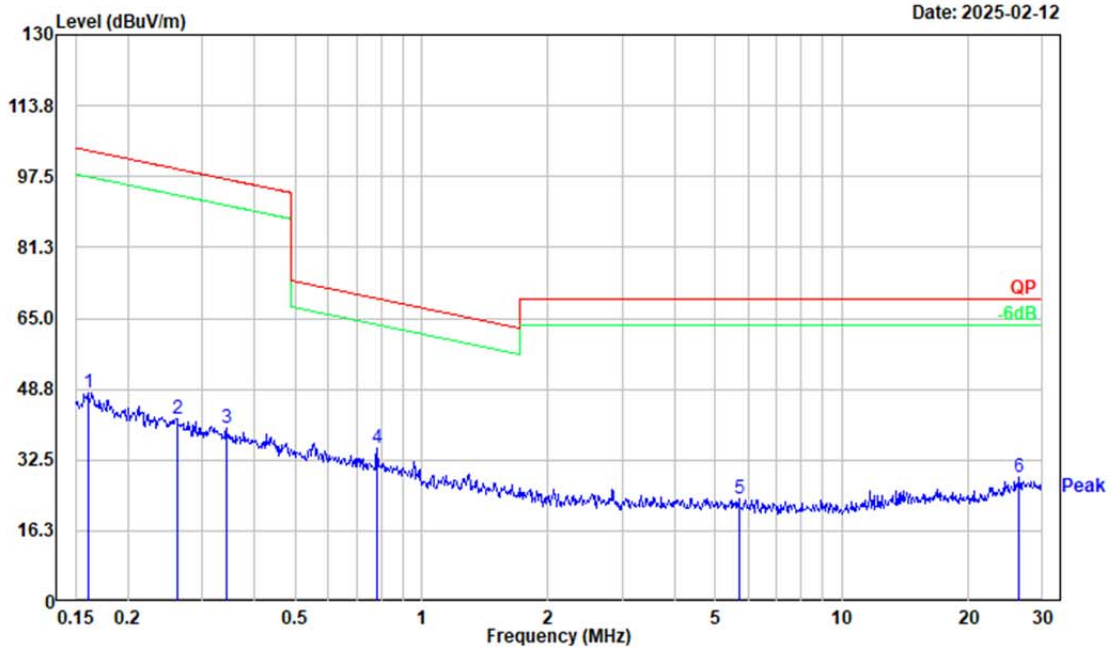
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.159	36.18	11.91	48.09	103.58	55.49	Peak
2	0.233	35.25	8.48	43.73	100.26	56.53	Peak
3	0.320	36.94	4.93	41.87	97.50	55.63	Peak
4	0.437	36.27	2.35	38.62	94.79	56.17	Peak
5	13.989	35.68	-7.66	28.02	69.54	41.52	Peak
6	27.271	35.64	-7.44	28.20	69.54	41.34	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting (power by POE)



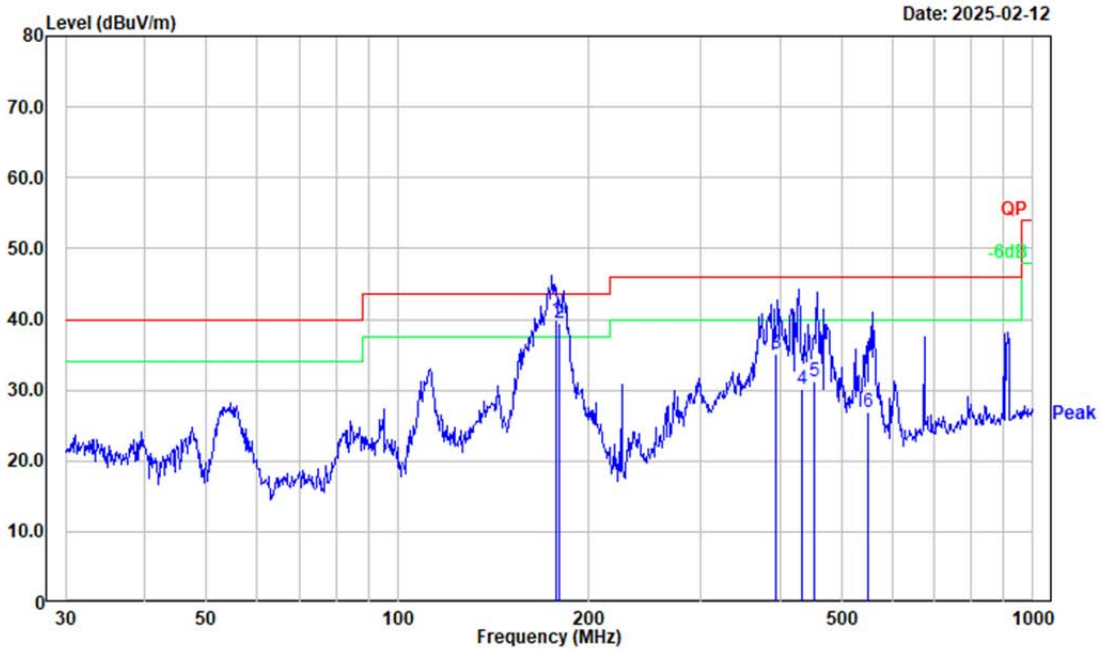
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.010	34.45	34.35	68.80	127.44	58.64	Peak
2	0.012	33.15	33.61	66.76	126.25	59.49	Peak
3	0.019	34.74	29.94	64.68	121.95	57.27	Peak
4	0.026	40.41	26.46	66.87	119.21	52.34	Peak
5	0.033	36.74	23.93	60.67	117.13	56.46	Peak
6	0.047	32.16	20.97	53.13	114.08	60.95	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting (power by POE)



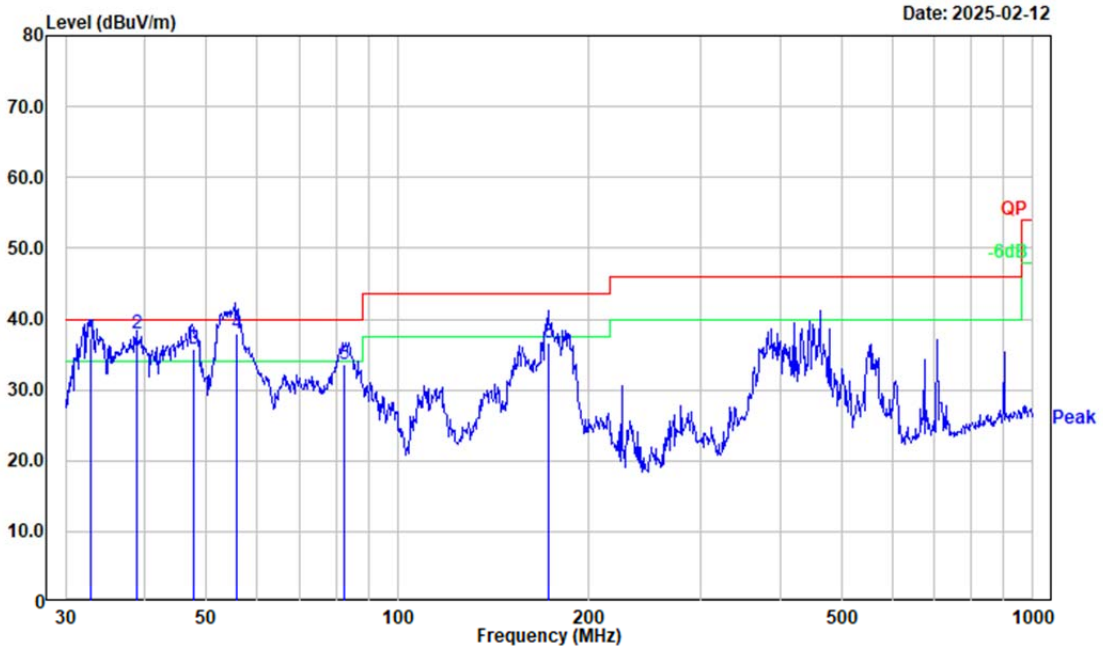
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	0.161	36.12	11.83	47.95	103.48	55.53	Peak
2	0.262	34.86	7.14	42.00	99.25	57.25	Peak
3	0.345	35.34	4.39	39.73	96.86	57.13	Peak
4	0.783	37.52	-2.31	35.21	69.64	34.43	Peak
5	5.683	32.54	-8.89	23.65	69.54	45.89	Peak
6	26.418	35.91	-7.49	28.42	69.54	41.12	Peak

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: horizontal
Note: Transmitting (power by POE)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	177.646	53.09	-13.24	39.85	43.50	3.65	QP
2	179.743	52.86	-13.49	39.37	43.50	4.13	QP
3	392.758	43.50	-8.47	35.03	46.00	10.97	QP
4	431.953	37.35	-7.26	30.09	46.00	15.91	QP
5	451.492	38.21	-7.00	31.21	46.00	14.79	QP
6	550.610	32.46	-5.53	26.93	46.00	19.07	QP

Project No.: 2503P40909E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting (power by POE)



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	32.845	43.18	-5.91	37.27	40.00	2.73	QP
2	38.825	48.36	-10.52	37.84	40.00	2.16	QP
3	47.628	52.05	-16.24	35.81	40.00	4.19	QP
4	55.813	55.79	-17.77	38.02	40.00	1.98	QP
5	82.335	50.77	-17.24	33.53	40.00	6.47	QP
6	172.585	49.58	-12.83	36.75	43.50	6.75	QP

4.2.2 1 GHz – 40 GHz:

Sample Number	2X4M-2	Test Date:	2025/2/12~2025/2/13
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	21.6~21.7	Relative Humidity: (%)	43~48	ATM Pressure: (kPa)	101.4~101.8

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	2025/1/10	2026/1/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/1/10	2026/1/9
BACL	Preamplifier	1313-A20M18G	4032311	2024/4/1	2025/3/31
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/1/6	2026/1/5
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(Power by adapter was the worst):
5150-5250MHz:
802.11a Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5180 MHz							
10360.000	36.01	PK	H	13.20	49.21	68.20	18.99
10360.000	35.55	PK	V	13.20	48.75	68.20	19.45
15540.000	35.64	PK	H	17.35	52.99	74.00	21.01
15540.000	23.39	AV	H	17.35	40.74	54.00	13.26
15540.000	35.74	PK	V	17.35	53.09	74.00	20.91
15540.000	23.11	AV	V	17.35	40.46	54.00	13.54
Middle Channel: 5200 MHz							
10400.000	35.01	PK	H	13.55	48.56	68.20	19.64
10400.000	35.63	PK	V	13.55	49.18	68.20	19.02
15600.000	36.22	PK	H	16.53	52.75	74.00	21.25
15600.000	24.19	AV	H	16.53	40.72	54.00	13.28
15600.000	35.86	PK	V	16.53	52.39	74.00	21.61
15600.000	23.35	AV	V	16.53	39.88	54.00	14.12
High Channel: 5240 MHz							
10480.000	34.52	PK	H	14.31	48.83	68.20	19.37
10480.000	35.01	PK	V	14.31	49.32	68.20	18.88
15720.000	35.59	PK	H	16.31	51.90	74.00	22.10
15720.000	23.33	AV	H	16.31	39.64	54.00	14.36
15720.000	35.71	PK	V	16.31	52.02	74.00	21.98
15720.000	23.02	AV	V	16.31	39.33	54.00	14.67

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: 5180 MHz							
10360.000	34.65	PK	H	13.20	47.85	68.20	20.35
10360.000	35.23	PK	V	13.20	48.43	68.20	19.77
15540.000	36.94	PK	H	17.35	54.29	74.00	19.71
15540.000	24.32	AV	H	17.35	41.67	54.00	12.33
15540.000	36.88	PK	V	17.35	54.23	74.00	19.77
15540.000	24.20	AV	V	17.35	41.55	54.00	12.45
Middle Channel: 5200 MHz							
10400.000	34.55	PK	H	13.55	48.10	68.20	20.10
10400.000	35.96	PK	V	13.55	49.51	68.20	18.69
15600.000	37.95	PK	H	16.53	54.48	74.00	19.52
15600.000	25.20	AV	H	16.53	41.73	54.00	12.27
15600.000	36.87	PK	V	16.53	53.40	74.00	20.60
15600.000	24.12	AV	V	16.53	40.65	54.00	13.35
High Channel: 5240 MHz							
10480.000	36.01	PK	H	14.31	50.32	68.20	17.88
10480.000	35.53	PK	V	14.31	49.84	68.20	18.36
15720.000	38.33	PK	H	16.31	54.64	74.00	19.36
15720.000	26.51	AV	H	16.31	42.82	54.00	11.18
15720.000	37.89	PK	V	16.31	54.20	74.00	19.80
15720.000	25.86	AV	V	16.31	42.17	54.00	11.83

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: 5190 MHz							
10380.000	35.22	PK	H	13.38	48.60	68.20	19.60
10380.000	35.41	PK	V	13.38	48.79	68.20	19.41
15570.000	36.29	PK	H	16.95	53.24	74.00	20.76
15570.000	24.75	AV	H	16.95	41.70	54.00	12.30
15570.000	37.32	PK	V	16.95	54.27	74.00	19.73
15570.000	25.20	AV	V	16.95	42.15	54.00	11.85
High Channel: 5230 MHz							
10460.000	34.52	PK	H	14.13	48.65	68.20	19.55
10460.000	33.66	PK	V	14.13	47.79	68.20	20.41
15690.000	35.85	PK	H	16.21	52.06	74.00	21.94
15690.000	23.69	AV	H	16.21	39.90	54.00	14.10
15690.000	36.47	PK	V	16.21	52.68	74.00	21.32
15690.000	24.12	AV	V	16.21	40.33	54.00	13.67

5725-5850MHz

802.11a Mode:

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Detector					
Low Channel: 5745 MHz							
11490.000	37.67	PK	H	14.20	51.87	74.00	22.13
11490.000	25.56	AV	H	14.20	39.76	54.00	14.24
11490.000	38.32	PK	V	14.20	52.52	74.00	21.48
11490.000	26.39	AV	V	14.20	40.59	54.00	13.41
17235.000	35.11	PK	H	21.51	56.62	68.20	11.58
17235.000	34.89	PK	V	21.51	56.40	68.20	11.80
Middle Channel: 5785 MHz							
11570.000	34.44	PK	H	15.61	50.05	74.00	23.95
11570.000	22.05	AV	H	15.61	37.66	54.00	16.34
11570.000	34.68	PK	V	15.61	50.29	74.00	23.71
11570.000	22.90	AV	V	15.61	38.51	54.00	15.49
17355.000	35.01	PK	H	21.58	56.59	68.20	11.61
17355.000	35.22	PK	V	21.58	56.80	68.20	11.40
High Channel: 5825 MHz							
11650.000	34.74	PK	H	15.66	50.40	74.00	23.60
11650.000	22.52	AV	H	15.66	38.18	54.00	15.82
11650.000	35.23	PK	V	15.66	50.89	74.00	23.11
11650.000	23.12	AV	V	15.66	38.78	54.00	15.22
17475.000	35.58	PK	H	22.47	58.05	68.20	10.15
17475.000	36.01	PK	V	22.47	58.48	68.20	9.72

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: 5745 MHz							
11490.000	35.23	PK	H	14.20	49.43	74.00	24.57
11490.000	23.01	AV	H	14.20	37.21	54.00	16.79
11490.000	37.50	PK	V	14.20	51.70	74.00	22.30
11490.000	25.36	AV	V	14.20	39.56	54.00	14.44
17235.000	37.44	PK	H	21.51	58.95	68.20	9.25
17235.000	39.20	PK	V	21.51	60.71	68.20	7.49
Middle Channel: 5785 MHz							
11570.000	35.21	PK	H	15.61	50.82	74.00	23.18
11570.000	23.63	AV	H	15.61	39.24	54.00	14.76
11570.000	34.89	PK	V	15.61	50.50	74.00	23.50
11570.000	22.74	AV	V	15.61	38.35	54.00	15.65
17355.000	36.21	PK	H	21.58	57.79	68.20	10.41
17355.000	37.11	PK	V	21.58	58.69	68.20	9.51
High Channel: 5825 MHz							
11650.000	35.14	PK	H	15.66	50.80	74.00	23.20
11650.000	23.01	AV	H	15.66	38.67	54.00	15.33
11650.000	35.85	PK	V	15.66	51.51	74.00	22.49
11650.000	23.44	AV	V	15.66	39.10	54.00	14.90
17475.000	36.47	PK	H	22.47	58.94	68.20	9.26
17475.000	36.81	PK	V	22.47	59.28	68.20	8.92

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: 5755 MHz							
11510.000	35.87	PK	H	14.45	50.32	74.00	23.68
11510.000	23.01	AV	H	14.45	37.46	54.00	16.54
11510.000	35.52	PK	V	14.45	49.97	74.00	24.03
11510.000	23.66	AV	V	14.45	38.11	54.00	15.89
17265.000	35.63	PK	H	21.44	57.07	68.20	11.13
17265.000	41.26	PK	V	21.44	62.70	68.20	5.50
High Channel: 5795 MHz							
11590.000	36.02	PK	H	15.99	52.01	74.00	21.99
11590.000	24.33	AV	H	15.99	40.32	54.00	13.68
11590.000	35.85	PK	V	15.99	51.84	74.00	22.16
11590.000	23.16	AV	V	15.99	39.15	54.00	14.85
17385.000	35.35	PK	H	21.70	57.05	68.20	11.15
17385.000	35.96	PK	V	21.70	57.66	68.20	10.54

Band edge test plots

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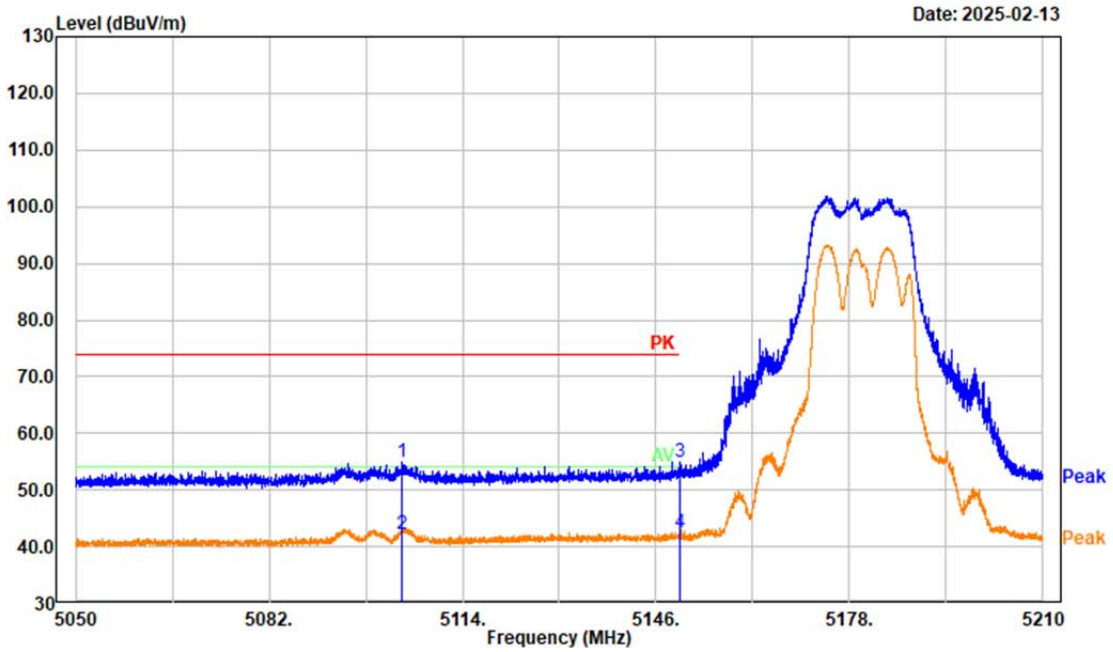
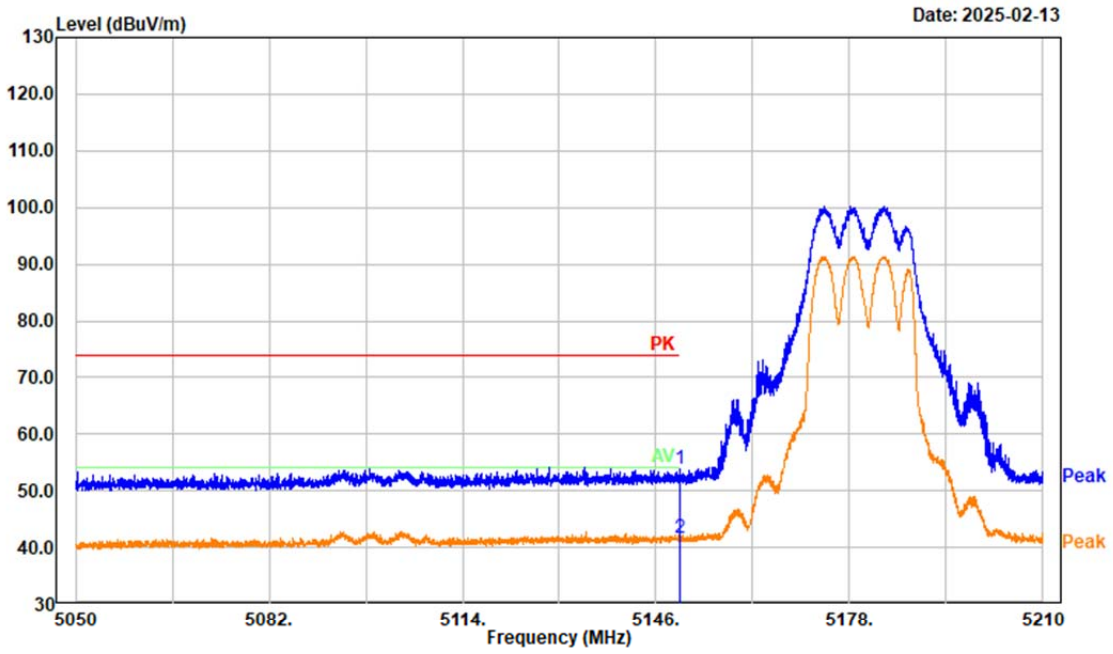
Project No.: 2503P40909E-RF
     Tester: Mack Huang
  Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
Polarization: Horizontal
       Note: a Low Channel 5180MHz
```



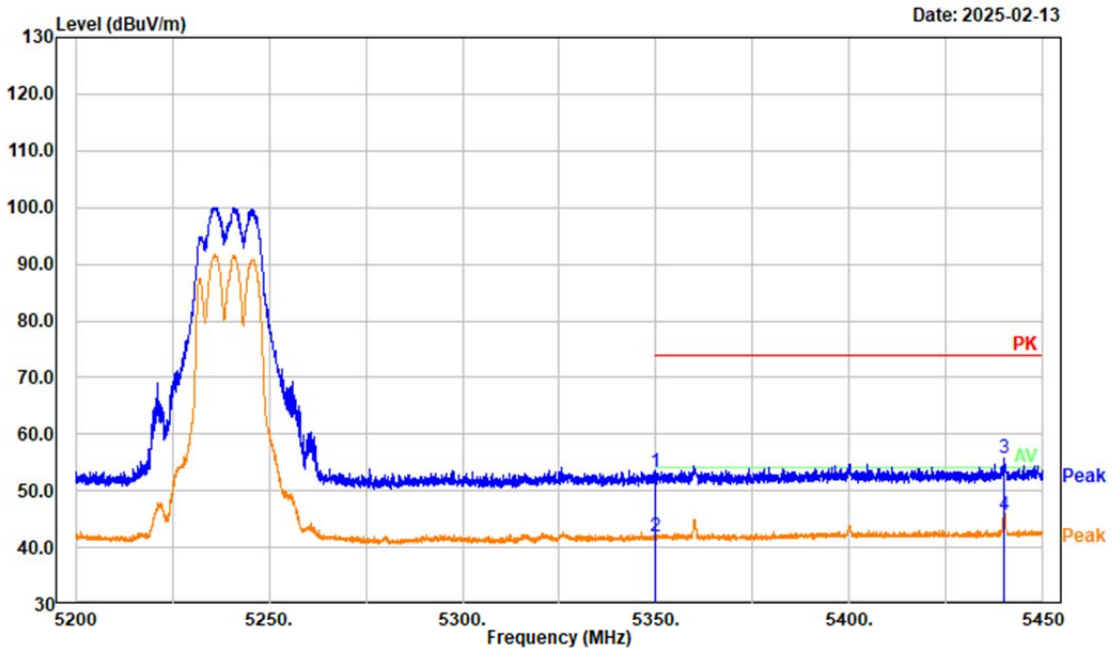
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5103.920	45.50	9.33	54.83	74.00	19.17	Peak
2	5103.920	33.00	9.33	42.33	54.00	11.67	Average
3	5150.000	45.36	9.60	54.96	74.00	19.04	Peak
4	5150.000	32.92	9.60	42.52	54.00	11.48	Average

Project No.: 2503P40909E-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: a Low Channel 5180MHz



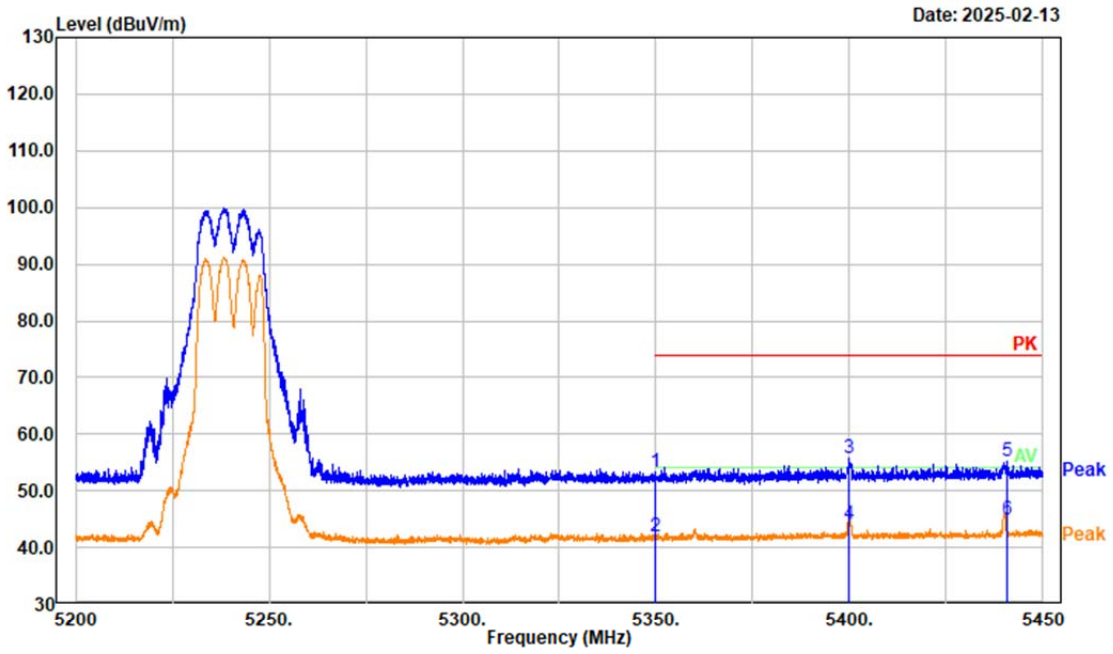
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5150.000	44.17	9.60	53.77	74.00	20.23	Peak
2	5150.000	31.95	9.60	41.55	54.00	12.45	Average

Project No.: 2503P40909E-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: a High Channel 5240MHz



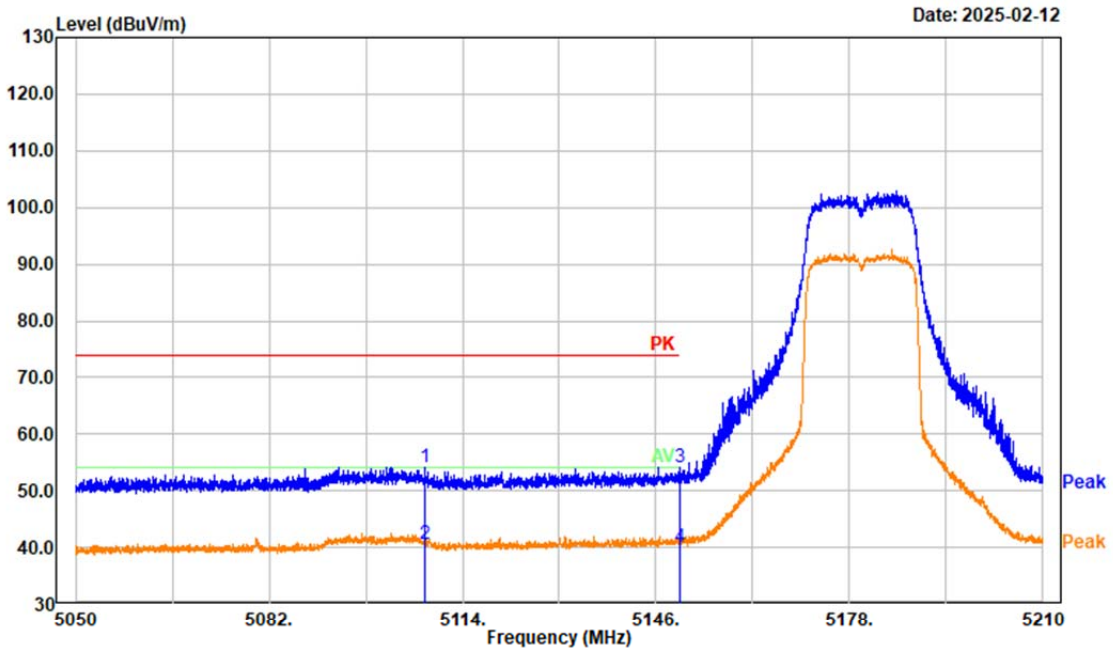
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	43.60	9.58	53.18	74.00	20.82	Peak
2	5350.000	32.30	9.58	41.88	54.00	12.12	Average
3	5440.050	45.82	9.93	55.75	74.00	18.25	Peak
4	5440.050	35.76	9.93	45.69	54.00	8.31	Average

Project No.: 2503P40909E-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: a High Channel 5240MHz



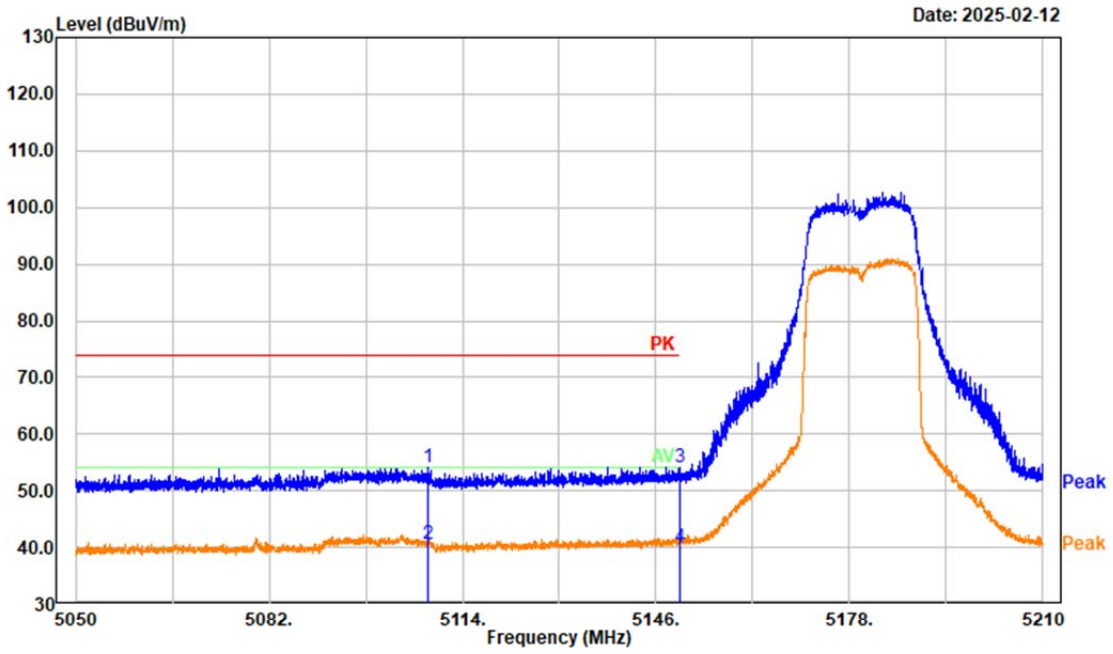
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	43.60	9.58	53.18	74.00	20.82	Peak
2	5350.000	32.28	9.58	41.86	54.00	12.14	Average
3	5399.750	46.02	9.81	55.83	74.00	18.17	Peak
4	5399.750	34.29	9.81	44.10	54.00	9.90	Average
5	5440.550	45.27	9.94	55.21	74.00	18.79	Peak
6	5440.550	34.95	9.94	44.89	54.00	9.11	Average

Project No.: 2503P40909E-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: n20 Low Channel 5180MHz



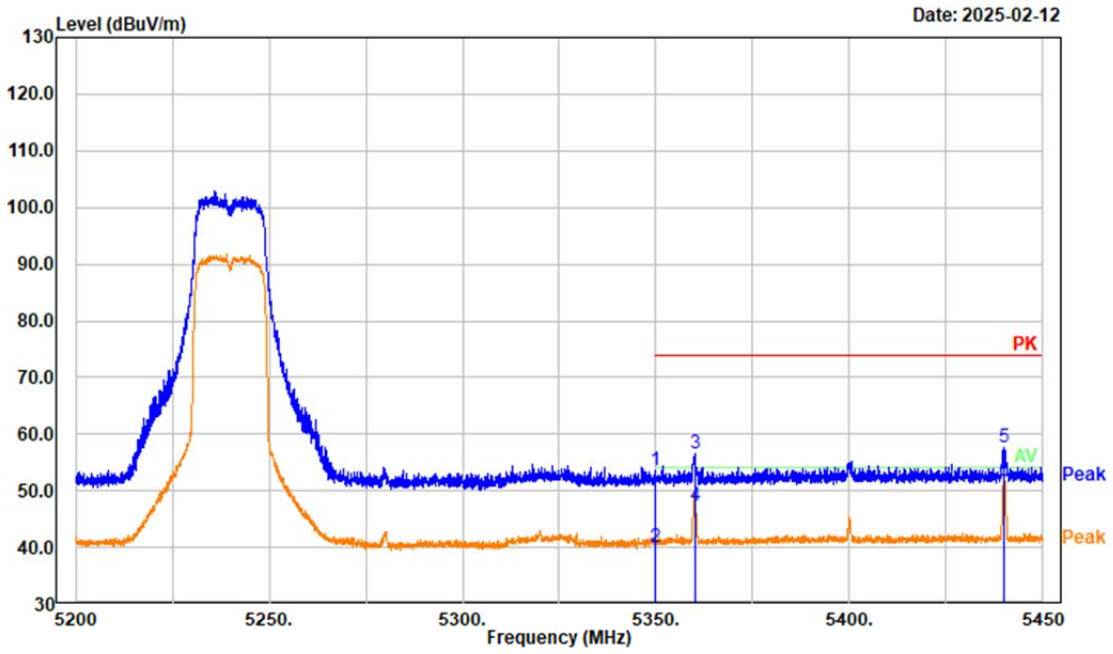
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5107.696	44.85	9.36	54.21	74.00	19.79	Peak
2	5107.696	31.31	9.36	40.67	54.00	13.33	Average
3	5150.000	44.63	9.60	54.23	74.00	19.77	Peak
4	5150.000	30.50	9.60	40.10	54.00	13.90	Average

Project No.: 2503P40909E-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: n20 Low Channel 5180MHz



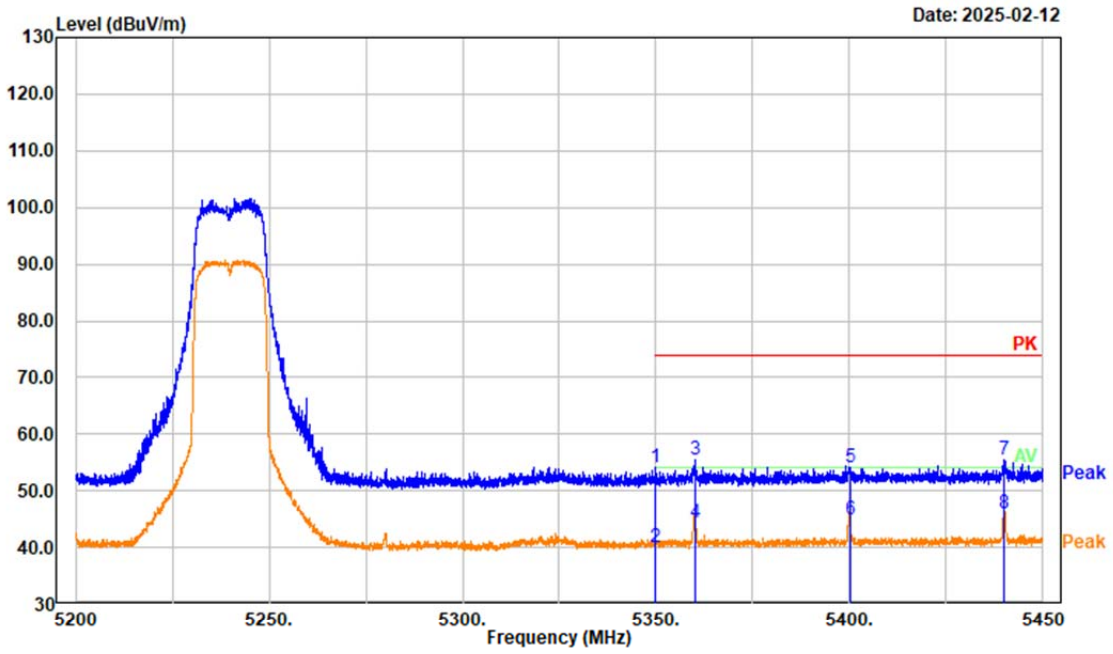
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5108.176	44.65	9.36	54.01	74.00	19.99	Peak
2	5108.176	31.22	9.36	40.58	54.00	13.42	Average
3	5150.000	44.47	9.60	54.07	74.00	19.93	Peak
4	5150.000	30.43	9.60	40.03	54.00	13.97	Average

Project No.: 2503P40909E-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: n20 High Channel 5240MHz



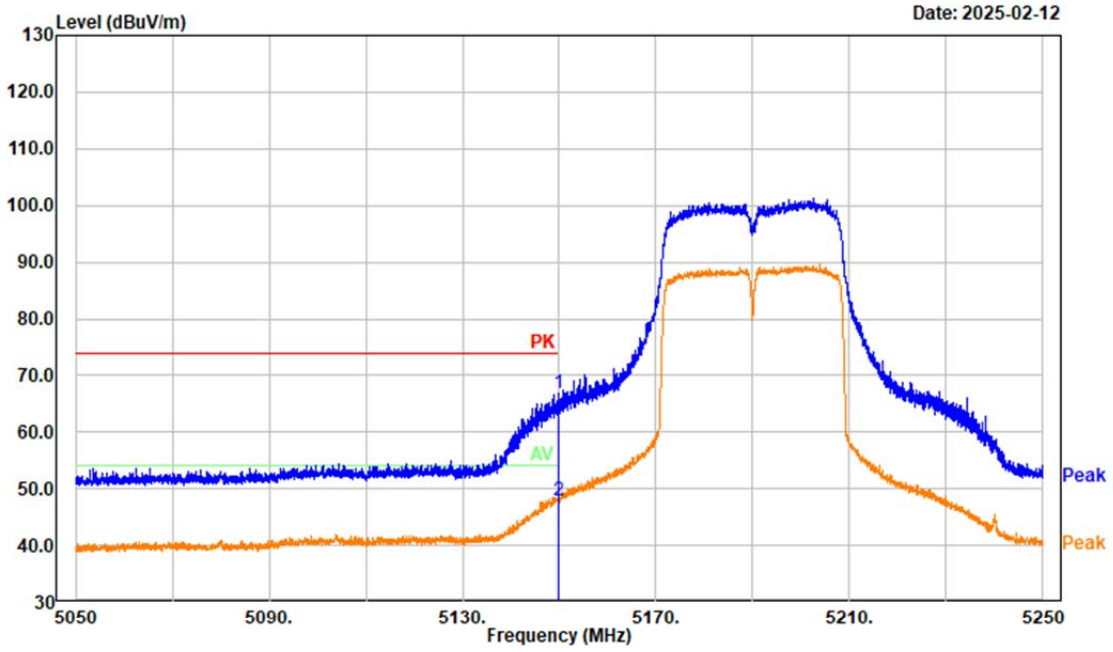
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	44.08	9.58	53.66	74.00	20.34	Peak
2	5350.000	30.45	9.58	40.03	54.00	13.97	Average
3	5359.950	46.91	9.62	56.53	74.00	17.47	Peak
4	5359.950	37.74	9.62	47.36	54.00	6.64	Average
5	5439.850	47.79	9.93	57.72	74.00	16.28	Peak
6	5439.850	41.81	9.93	51.74	54.00	2.26	Average

Project No.: 2503P40909E-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: n20 High Channel 5240MHz



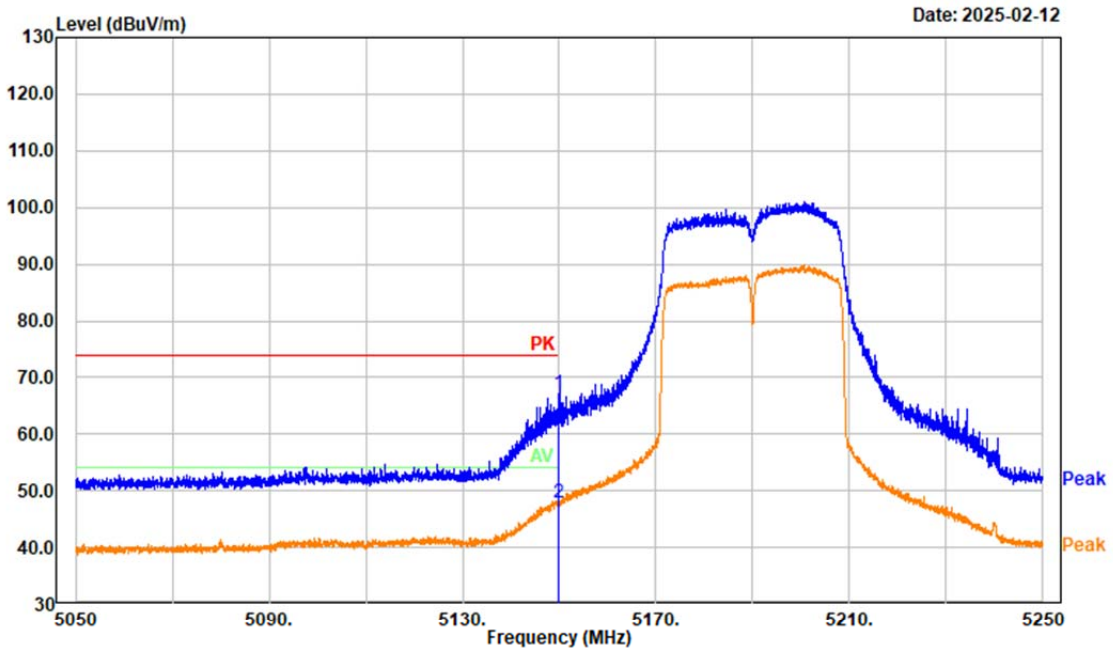
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	44.60	9.58	54.18	74.00	19.82	Peak
2	5350.000	30.47	9.58	40.05	54.00	13.95	Average
3	5360.050	45.91	9.62	55.53	74.00	18.47	Peak
4	5360.050	34.74	9.62	44.36	54.00	9.64	Average
5	5400.150	44.27	9.81	54.08	74.00	19.92	Peak
6	5400.150	34.97	9.81	44.78	54.00	9.22	Average
7	5440.050	45.45	9.93	55.38	74.00	18.62	Peak
8	5440.050	36.07	9.93	46.00	54.00	8.00	Average

Project No.: 2503P40909E-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: n40 Low Channel 5190MHz



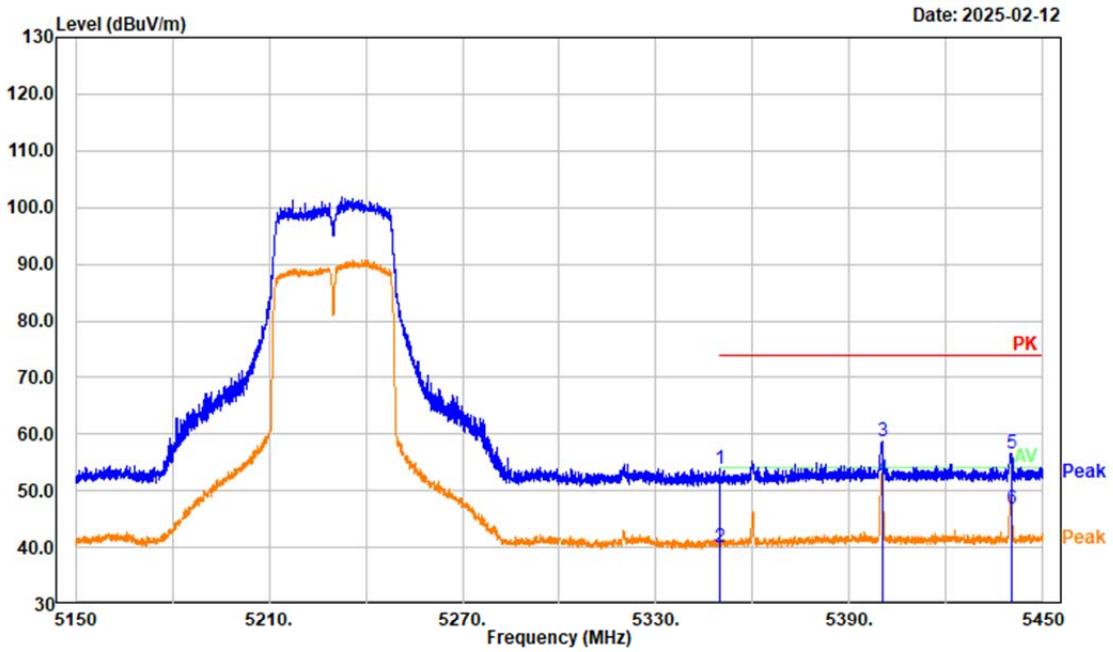
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5150.000	57.31	9.60	66.91	74.00	7.09	Peak
2	5150.000	38.40	9.60	48.00	54.00	6.00	Average

Project No.: 2503P40909E-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: n40 Low Channel 5190MHz



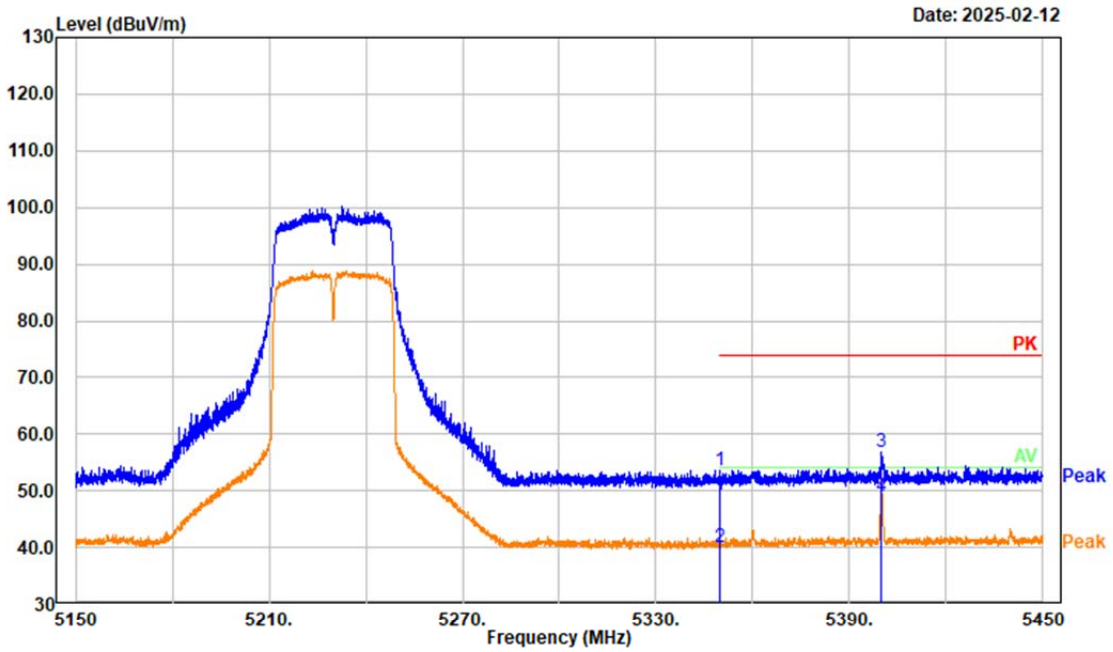
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5150.000	57.41	9.60	67.01	74.00	6.99	Peak
2	5150.000	38.18	9.60	47.78	54.00	6.22	Average

Project No.: 2503P40909E-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: n40 High Channel 5230MHz



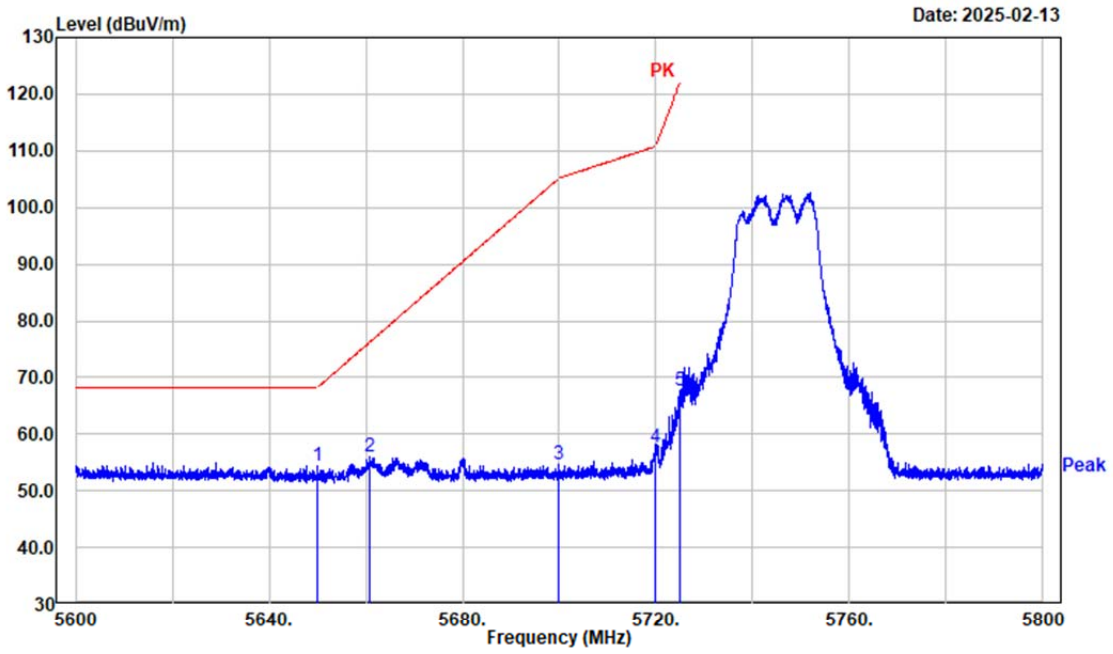
No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	44.22	9.58	53.80	74.00	20.20	Peak
2	5350.000	30.52	9.58	40.10	54.00	13.90	Average
3	5400.080	48.87	9.81	58.68	74.00	15.32	Peak
4	5400.080	42.40	9.81	52.21	54.00	1.79	Average
5	5440.160	46.76	9.93	56.69	74.00	17.31	Peak
6	5440.160	36.96	9.93	46.89	54.00	7.11	Average

Project No.: 2503P40909E-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: n40 High Channel 5230MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5350.000	44.10	9.58	53.68	74.00	20.32	Peak
2	5350.000	30.49	9.58	40.07	54.00	13.93	Average
3	5399.960	47.04	9.81	56.85	74.00	17.15	Peak
4	5399.960	39.19	9.81	49.00	54.00	5.00	Average

Project No.: 2503P40909E-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: a Low Channel 5745MHz



No.	Frequency (MHz)	Reading (dBµV)	Factor (dB/m)	Result (dBµV/m)	Limit (dBµV/m)	Margin (dB)	Detector
1	5650.000	44.63	9.72	54.35	68.20	13.85	Peak
2	5660.760	46.37	9.71	56.08	76.19	20.11	Peak
3	5700.000	45.07	9.67	54.74	105.20	50.46	Peak
4	5720.000	48.07	9.67	57.74	110.80	53.06	Peak
5	5725.000	57.87	9.67	67.54	122.20	54.66	Peak