



中认信通

CHINA CERTIFICATION ICT CO., LTD (DONGGUAN)



TEST REPORT

Applicant: Shenzhen ITS Technology Co.,Ltd.

Address: 1103,11/F.,Beiyou Science and Technology Building,Gaoxin South Ring Road,Nanshan District,Shenzhen,China

FCC ID: 2BNYL-S8600

Product Name: Rugged Biometric Tablet

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: 2503P42192E-RF-00B

Date Of Issue: 2025/3/13

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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	2503P42192E-RF-00B	Original Report	2025/3/13

1. GENERAL INFORMATION

1.1 Product Description for Equipment under Test (EUT)

1.1.1 General

EUT Name:	Rugged Biometric Tablet
Trade Name:	ITS
EUT Model:	ITS-S8600
Multiple Model:	ITS-S8800
Operation Frequency:	2402-2480 MHz
Maximum Peak Output Power (Conducted):	4.76dBm
Modulation Type:	GFSK, $\pi/4$ -DQPSK, 8DPSK
Rated Input Voltage:	3.8Vdc from battery or 12V dc from DC Adapter or 12V dc from type-c port
Sample Number:	ITS-S8600: 2XL7-1(For RF Conducted Test) 2XL7-2(For Conducted Emissions & Radiated Emissions Test) ITS-S8800: 2XL7-3(For Conducted Emissions & Radiated Emissions Test)
EUT Received Date:	2025/1/16
EUT Received Status:	Good
Note: The multiple models are electrically identical with the test model except fingerprint function. Please refer to the declaration letter for more detail, which was provided by manufacturer.	

1.1.2 Operation Frequency Detail

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

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

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

1.1.3 Antenna Information Detail▲

Antenna Type	input impedance (Ohm)	Frequency Range (MHz)	Antenna Gain (dBi)
FPC	50	2400-2500	0.22

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
Adapter	ShenZhen Richly Technologies Co.,Ltd.	RCL-X120300U

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. For ITS-S8800 model, worst case power supply mode from ITS-S8600 model was tested in conducted emissions and radiated emissions below 1GHz.		
Equipment Modifications:	No		
EUT Exercise Software:	QRCT3		
The software was provided by manufacturer. The maximum power was configured as below, that was provided by the manufacturer▲：			
Test Modes	Power Level Setting		
	Lowest Channel	Middle Channel	Highest Channel
GFSK	8	8	8
$\pi/4$ -DQPSK	8	8	8
8DPSK	8	8	8

1.2.2 Support Equipment List and Details

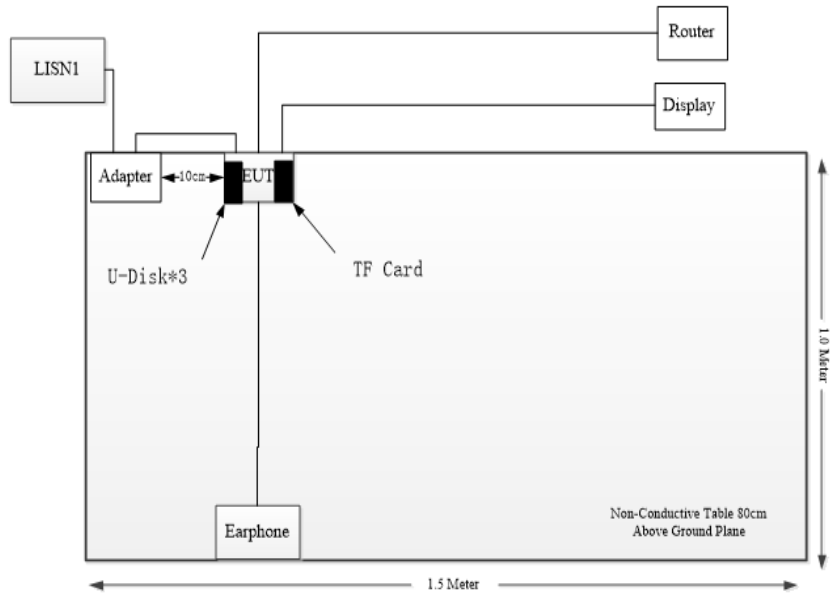
Manufacturer	Description	Model	Serial Number
HP	USB Disk	HPFD206W-32	PAA6918477
HP	USB Disk	HPFD206W-32	PAA6918447
HP	USB Disk	HPFD206W-32	PAA6902271
IPRO	Earphone	Phonenix 5.0s	EP221126001
ViewSonic	Display	VX1630-4K-HD	W9F203900071
SZTY	Adapter	TPA-23A050200UU01	AD220930003
Tenda	Router	RX12 Pro	ED331010215000033
SanDisk	TF Card	32 GB	521005904698

1.2.3 Support Cable List and Details

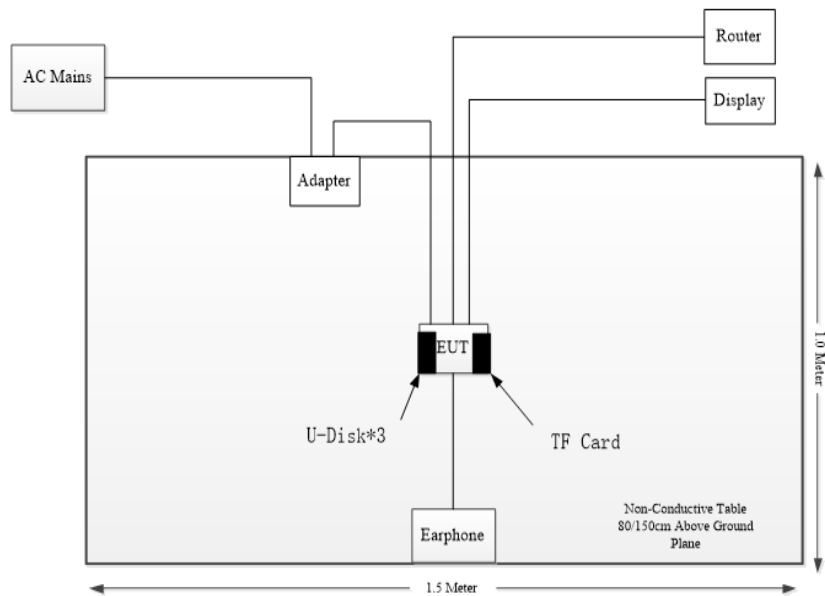
Cable Description	Shielding Type	Ferrite Core	Length (m)	From Port	To
Power Cable	No	No	1.5	Adapter	EUT
USB Cable	No	No	1.5	Adapter	EUT
Earphone Cable	No	No	1.2	Earphone	EUT
RJ45 Cable	No	No	3	Router	EUT
HDMI Cable	No	Yes	2	Display	EUT

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	Compliant
FCC §15.207(a)	AC Line Conducted Emissions	Compliant
FCC §15.205, §15.209, §15.247(d)	Radiated Spurious Emission	Compliant
FCC §15.247(a)(1), C63.10 §6.9.3	20 dB Emission Bandwidth & 99% Occupied Bandwidth	Compliant
FCC §15.247(a)(1)	Channel Separation	Compliant
FCC §15.247(a)(1)(iii)	Number of Hopping Frequency	Compliant
FCC §15.247(a)(1)(iii)	Time of Occupancy (dwell time)	Compliant
FCC §15.247(b)(1)	Maximum Conducted Output Power	Compliant
FCC §15.247(d)	100 kHz Bandwidth of Frequency Band Edge	Compliant
FCC §1.1307&§2.1093&§15.247 (i)	RF Exposure	Compliant

3. REQUIREMENTS AND TEST PROCEDURES

3.1 AC Line Conducted Emissions

3.1.1 Applicable Standard

FCC§15.207(a).

(a) Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies, within the band 150 kHz to 30 MHz, shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the boundary between the frequency ranges.

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

*Decreases with the logarithm of the frequency.

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

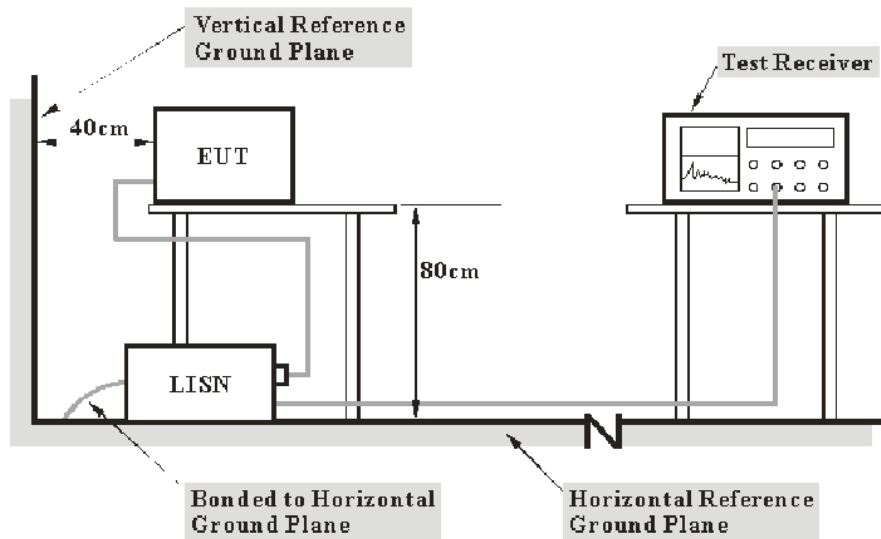
(1) For carrier current system containing their fundamental emission within the frequency band 535-1705 kHz and intended to be received using a standard AM broadcast receiver: no limit on conducted emissions.

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

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

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

3.1.2 EUT Setup



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

The setup of EUT is according with per ANSI C63.10-2013 measurement procedure. The specification used was with the FCC Part 15.207 limits.

The spacing between the peripherals was 10cm.

3.1.3 EMI Test Receiver Setup

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

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

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

3.1.4 Test Procedure

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

3.1.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

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

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

Margin = Limit – Result

3.2 Radiated Spurious Emissions

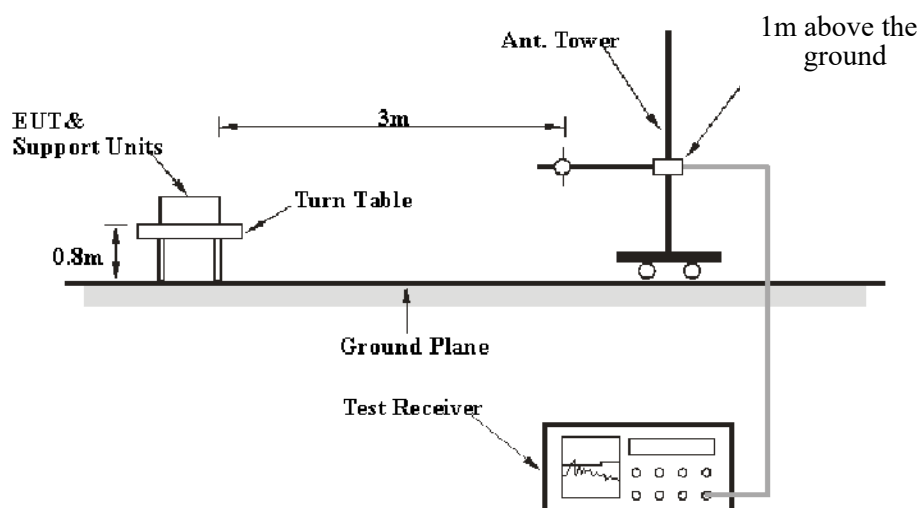
3.2.1 Applicable Standard

FCC §15.247 (d);

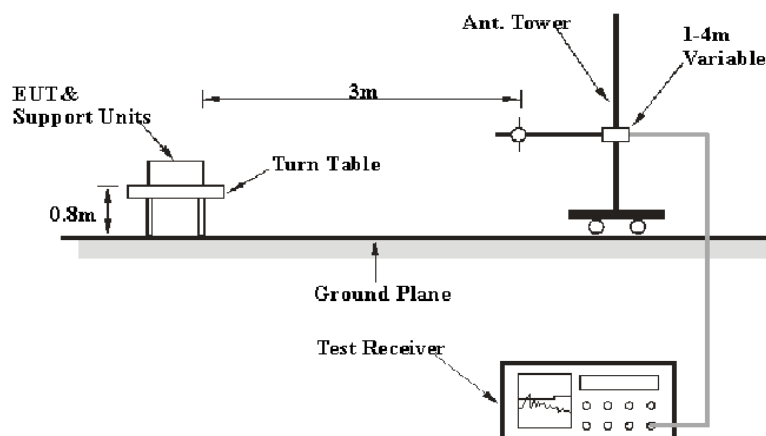
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

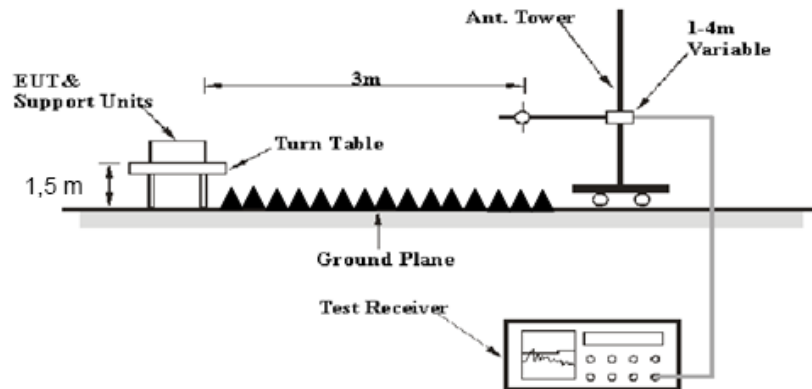
3.2.2 EUT Setup

9kHz - 30MHz:



30MHz - 1GHz:



Above 1GHz:

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

The spacing between the peripherals was 10cm.

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
30MHz – 1000 MHz	100 kHz	300 kHz	/	Peak	PK
	/	/	120kHz	Quasi Peak	QP

1GHz – 25GHz:

Pre-scan:

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

Final measurement for emission identified during the pre-scan:

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

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

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

3.2.4 Test Procedure

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

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

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

3.2.5 Corrected Amplitude & Margin Calculation

The basic equation is as follows:

Result = Reading + Factor

Factor= Antenna Factor + Cable Loss- Amplifier Gain

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

Margin = Limit – Result

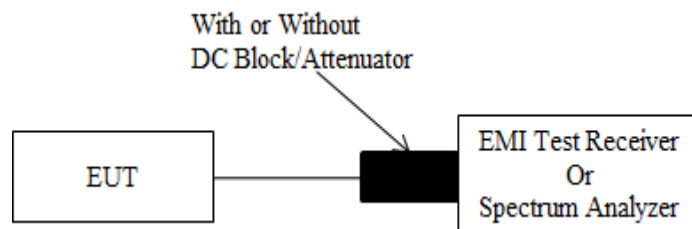
3.3 20 dB Emission Bandwidth

3.3.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.3.2 EUT Setup



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

3.3.3 Test Procedure

According to ANSI C63.10-2013 Section 6.9.2

- a) The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the EMI receiver or spectrum analyzer shall be between two times and five times the OBW.
- b) The nominal IF filter bandwidth (3 dB RBW) shall be in the range of 1% to 5% of the OBW and video bandwidth (VBW) shall be approximately three times 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) Steps a) through c) might require iteration to adjust within the specified tolerances.
- e) The dynamic range of the instrument at the selected RBW shall be more than 10 dB below the target “-xx dB down” requirement; that is, if the requirement calls for measuring the -20 dB OBW, the instrument noise floor at the selected RBW shall be at least 30 dB below the reference value.
- f) Set detection mode to peak and trace mode to max hold.
- g) Determine the reference value: Set the EUT to transmit an unmodulated carrier or modulated signal, as applicable. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace (this is the reference value).
- h) Determine the “-xx dB down amplitude” using $[(\text{reference value}) - xx]$. Alternatively, this calculation may be made by using the marker-delta function of the instrument.

i) If the reference value is determined by an unmodulated carrier, then turn the EUT modulation ON, and either clear the existing trace or start a new trace on the spectrum analyzer and allow the new trace to stabilize. Otherwise, the trace from step g) shall be used for step j).

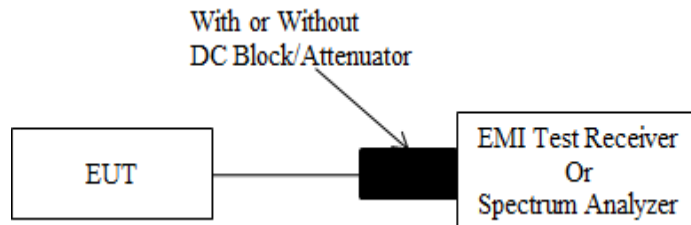
j) Place two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-xx dB down amplitude” determined in step h). If a marker is below this “-xx dB down amplitude” value, then it shall be as close as possible to this value. The occupied bandwidth is the frequency difference between the two markers. Alternatively, set a marker at the lowest frequency of the envelope of the spectral display, such that the marker is at or slightly below the “-xx dB down amplitude” determined in step h). Reset the marker-delta function and move the marker to the other side of the emission until the delta marker amplitude is at the same level as the reference marker amplitude. The marker-delta frequency reading at this point is the specified emission bandwidth.

k) The 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 99% Occupied Bandwidth

3.4.1 Applicable Standard

3.4.2 EUT Setup



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

3.4.3 Test Procedure

According to ANSI C63.10-2013 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:

- 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.
- 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.
- 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.
- Step a) through step c) might require iteration to adjust within the specified range.
- 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.
- Use the 99% power bandwidth function of the instrument (if available) and report the measured bandwidth.
- 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.
- 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).

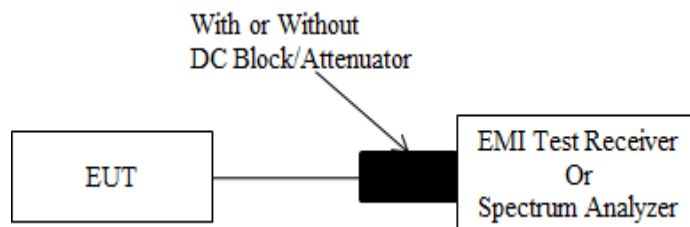
3.5 Channel Separation

3.5.1 Applicable Standard

FCC §15.247 (a)(1)

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a pseudo randomly ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

3.5.2 EUT Setup



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

3.5.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.2

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

- a) Span: Wide enough to capture the peaks of two adjacent channels.
- b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) $\geq$ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize.

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

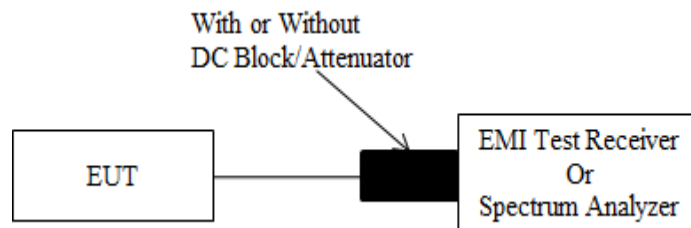
3.6 Number Of Hopping Frequency

3.6.1 Applicable Standard

FCC §15.247 (a)(1)(iii)

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

3.6.2 EUT Setup



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

3.6.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.3

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

- a) Span: The frequency band of operation. Depending on the number of channels the device supports, it may be necessary to divide the frequency range of operation across multiple spans, to allow the individual channels to be clearly seen.
- b) RBW: To identify clearly the individual channels, set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller.
- c) VBW $\geq$ RBW.
- d) Sweep: Auto.
- e) Detector function: Peak.
- f) Trace: Max hold.
- g) Allow the trace to stabilize

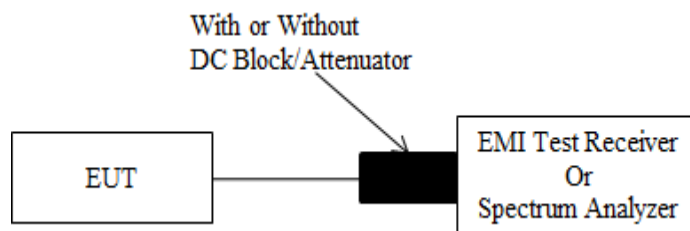
It might prove necessary to break the span up into sub ranges to show clearly all of the hopping frequencies. Compliance of an EUT with the appropriate regulatory limit shall be determined for the number of hopping channels. A plot of the data shall be included in the test report.

3.7 Time Of Occupancy (Dwell Time)

3.7.1 Applicable Standard

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

3.7.2 EUT Setup



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

3.7.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.4

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

- a) Span: Zero span, centered on a hopping channel.
- b) RBW shall be $\leq$ channel spacing and where possible RBW should be set $\gg 1 / T$, where T is the expected dwell time per channel.
- c) Sweep: As necessary to capture the entire dwell time per hopping channel; where possible use a video trigger and trigger delay so that the transmitted signal starts a little to the right of the start of the plot. The trigger level might need slight adjustment to prevent triggering when the system hops on an adjacent channel; a second plot might be needed with a longer sweep time to show two successive hops on a channel.
- d) Detector function: Peak.
- e) Trace: Max hold.

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

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements. Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

$$(\text{Number of hops in the period specified in the requirements}) = (\text{number of hops on spectrum analyzer}) \times (\text{period specified in the requirements} / \text{analyzer sweep time})$$

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified in the requirements. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

The measured transmit time and time between hops shall be consistent with the values described in the operational description for the EUT.

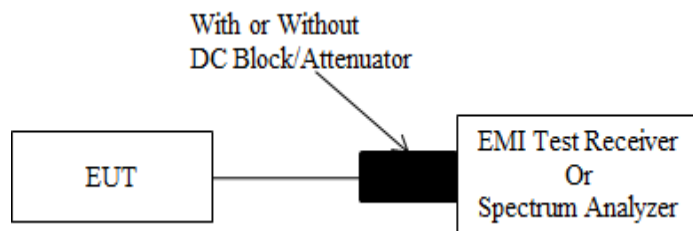
3.8 Maximum Conducted Output Power

3.8.1 Applicable Standard

FCC §15.247 (b)(1)

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

3.8.2 EUT Setup



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

3.8.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.5

This is an RF-conducted test to evaluate maximum peak output power. Use a direct connection between the antenna port of the unlicensed wireless device and the spectrum analyzer, through suitable attenuation, Offset the Insertion loss of the RF cable, DC Block/ Attenuator into the spectrum analyzer. The hopping shall be disabled for this test:

- a) Use the following spectrum analyzer settings:
 - 1) Span: Approximately five times the 20 dB bandwidth, centered on a hopping channel.
 - 2) RBW > 20 dB bandwidth of the emission being measured.
 - 3) VBW $\geq$ RBW.
 - 4) Sweep: Auto.
 - 5) Detector function: Peak.
 - 6) Trace: Max hold.
- b) Allow trace to stabilize.
- c) Use the marker-to-peak function to set the marker to the peak of the emission.
- d) The indicated level is the peak output power, after any corrections for external attenuators and cables.
- e) A plot of the test results and setup description shall be included in the test report.

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

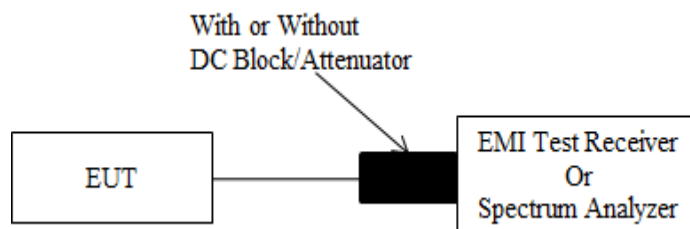
3.9 100 kHz Bandwidth of Frequency Band Edge

3.9.1 Applicable Standard

FCC §15.247 (d);

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c)).

3.9.2 EUT Setup



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

3.9.3 Test Procedure

According to ANSI C63.10-2013 Section 7.8.6

For band-edge measurements, use the band-edge procedure in 6.10. Band-edge measurements shall be tested both on single channels, and with the EUT hopping.

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

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements. Report the three highest emissions relative to the limit.

3.10 Antenna Requirement

3.10.1 Applicable Standard

FCC §15.203

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. This requirement does not apply to carrier current devices or to devices operated under the provisions of §§15.211, 15.213, 15.217, 15.219, 15.221, or §15.236. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with §15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.

3.10.2 Judgment

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

4. TEST DATA AND RESULTS

4.1 AC Line Conducted Emissions

Sample Number:	2XL7-2, 2XL7-3	Test Date:	2025/2/13~2025/3/13
Test Site:	CE	Test Mode:	Transmitting (maximum output power mode, 8DPSK low channel)
Tester:	David Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.7-25.1	Relative Humidity: (%)	53-60	ATM Pressure: (kPa)	101.4-101.6
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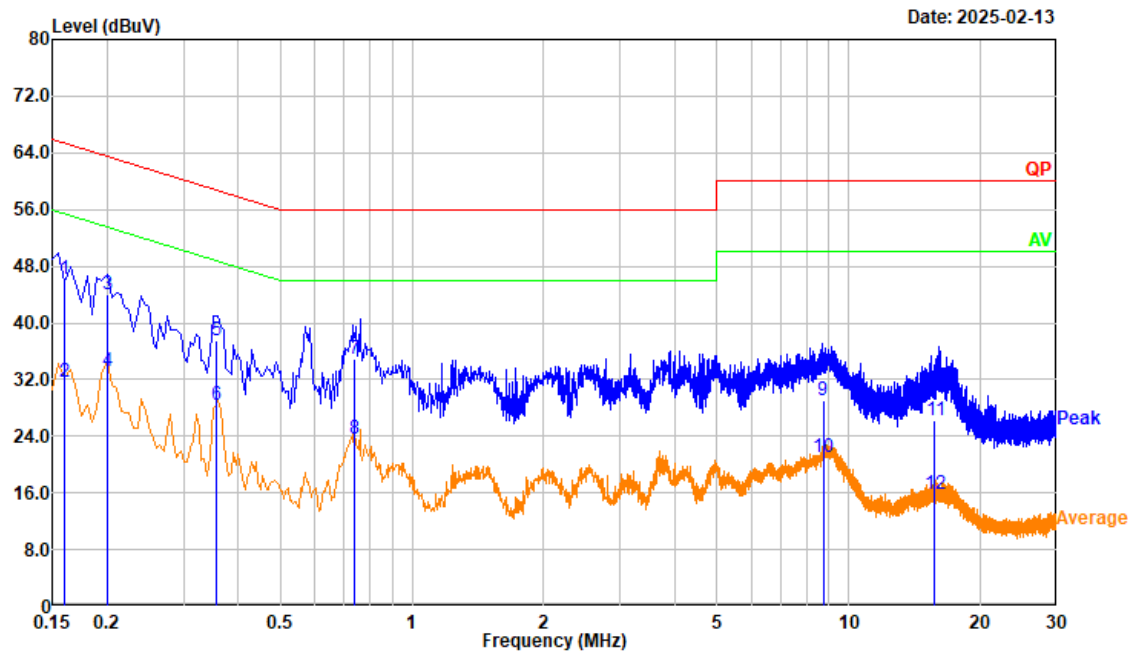
Test Equipment List and Details:

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	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).*

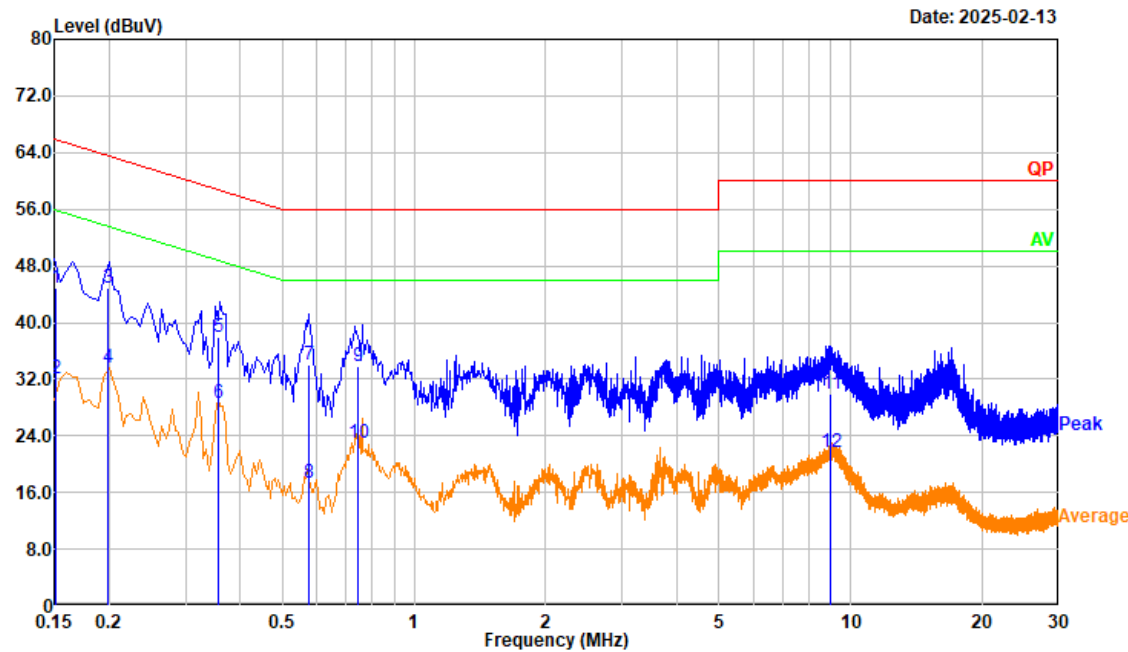
ITS-S8600
DC Adapter

Project No.: 2503P42192E-RF
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: Line
Note: Transmitting BT ITS-S8600(DC Adapter)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.160	35.96	10.33	46.29	65.48	19.19	QP
2	0.160	21.37	10.33	31.70	55.48	23.78	Average
3	0.201	34.03	10.01	44.04	63.55	19.51	QP
4	0.201	23.16	10.01	33.17	53.55	20.38	Average
5	0.358	27.33	10.27	37.60	58.79	21.19	QP
6	0.358	18.10	10.27	28.37	48.79	20.42	Average
7	0.740	24.30	10.70	35.00	56.00	21.00	QP
8	0.740	12.93	10.70	23.63	46.00	22.37	Average
9	8.739	18.77	10.29	29.06	60.00	30.94	QP
10	8.739	10.74	10.29	21.03	50.00	28.97	Average
11	15.751	16.03	10.18	26.21	60.00	33.79	QP
12	15.751	5.69	10.18	15.87	50.00	34.13	Average

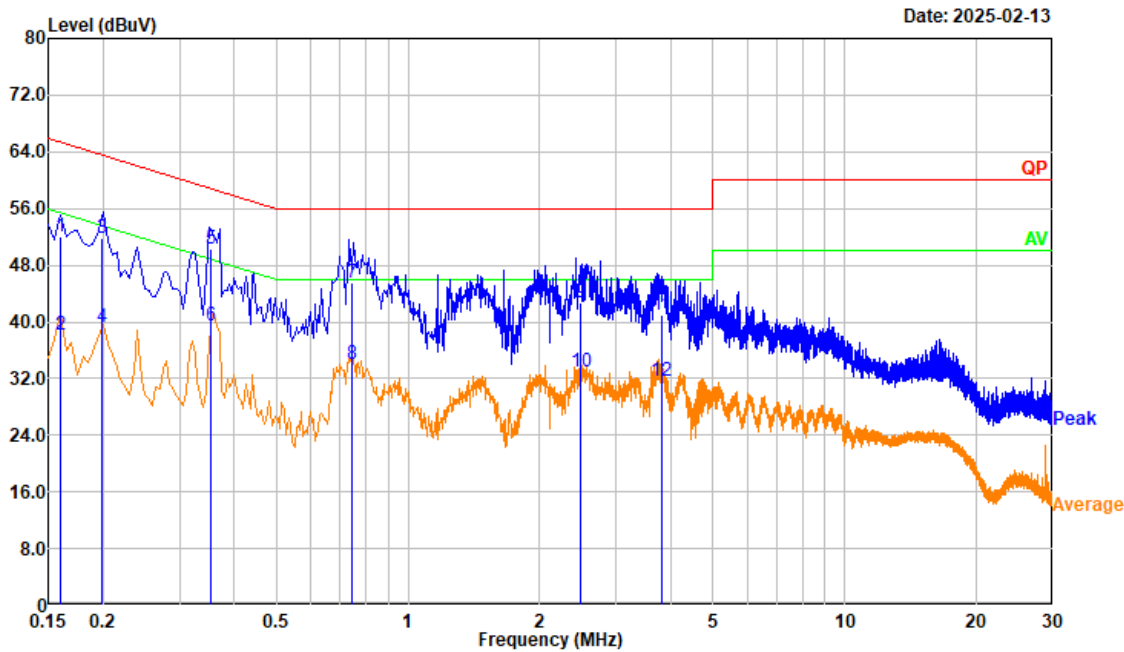
Project No.: 2503P42192E-RF
 Tester: David Huang
 Condition: IFBW:9 kHz Meas Time:0.025sec
 Port: neutral
 Note: Transmitting BT ITS-S8600(DC Adapter)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	34.44	10.50	44.94	65.92	20.98	QP
2	0.151	21.52	10.50	32.02	55.92	23.90	Average
3	0.200	34.61	10.31	44.92	63.63	18.71	QP
4	0.200	23.31	10.31	33.62	53.63	20.01	Average
5	0.356	27.53	10.41	37.94	58.82	20.88	QP
6	0.356	18.23	10.41	28.64	48.82	20.18	Average
7	0.575	23.73	10.40	34.13	56.00	21.87	QP
8	0.575	7.01	10.40	17.41	46.00	28.59	Average
9	0.742	23.63	10.25	33.88	56.00	22.12	QP
10	0.742	12.80	10.25	23.05	46.00	22.95	Average
11	9.012	19.51	10.38	29.89	60.00	30.11	QP
12	9.012	11.34	10.38	21.72	50.00	28.28	Average

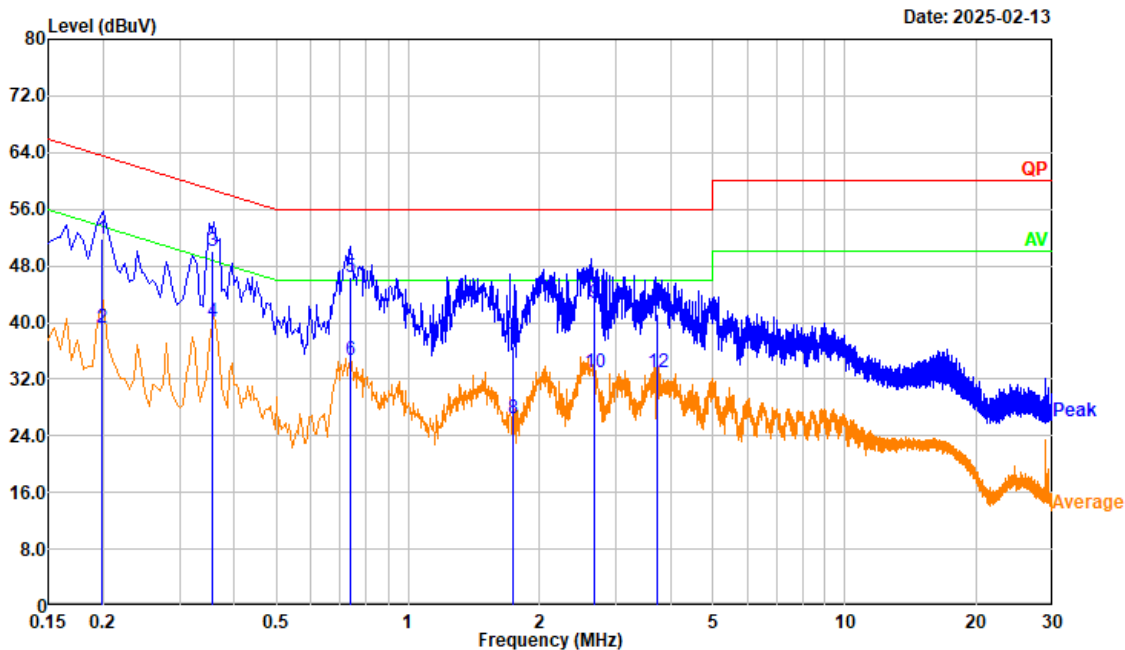
Type-C input

Project No.: 2503P42192E-RF
 Tester: David Huang
 Condition: IFBW:9 kHz Meas Time:0.025sec
 Port: Line
 Note: Transmitting BT ITS-S8600(Type-C input)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.160	41.81	10.33	52.14	65.47	13.33	QP
2	0.160	27.84	10.33	38.17	55.47	17.30	Average
3	0.199	41.82	10.02	51.84	63.66	11.82	QP
4	0.199	29.21	10.02	39.23	53.66	14.43	Average
5	0.355	40.05	10.27	50.32	58.85	8.53	QP
6	0.355	29.20	10.27	39.47	48.85	9.38	Average
7	0.745	34.93	10.70	45.63	56.00	10.37	QP
8	0.745	23.44	10.70	34.14	46.00	11.86	Average
9	2.492	32.55	10.18	42.73	56.00	13.27	QP
10	2.492	22.84	10.18	33.02	46.00	12.98	Average
11	3.800	30.74	10.33	41.07	56.00	14.93	QP
12	3.800	21.38	10.33	31.71	46.00	14.29	Average

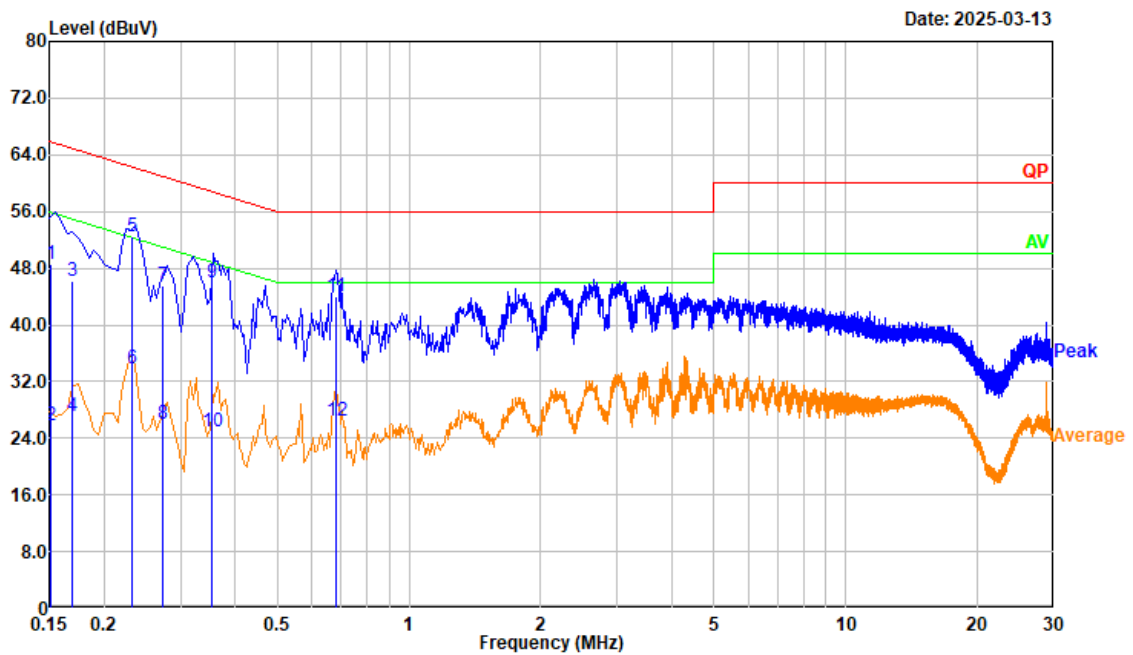
Project No.: 2503P42192E-RF
 Tester: David Huang
 Condition: IFBW:9 kHz Meas Time:0.025sec
 Port: neutral
 Note: Transmitting BT ITS-S8600(Type-C input)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.199	41.53	10.32	51.85	63.67	11.82	QP
2	0.199	28.98	10.32	39.30	53.67	14.37	Average
3	0.357	39.76	10.41	50.17	58.79	8.62	QP
4	0.357	29.64	10.41	40.05	48.79	8.74	Average
5	0.737	36.08	10.25	46.33	56.00	9.67	QP
6	0.737	24.52	10.25	34.77	46.00	11.23	Average
7	1.737	26.32	10.38	36.70	56.00	19.30	QP
8	1.737	16.10	10.38	26.48	46.00	19.52	Average
9	2.672	32.35	10.27	42.62	56.00	13.38	QP
10	2.672	22.75	10.27	33.02	46.00	12.98	Average
11	3.730	30.91	10.18	41.09	56.00	14.91	QP
12	3.730	22.80	10.18	32.98	46.00	13.02	Average

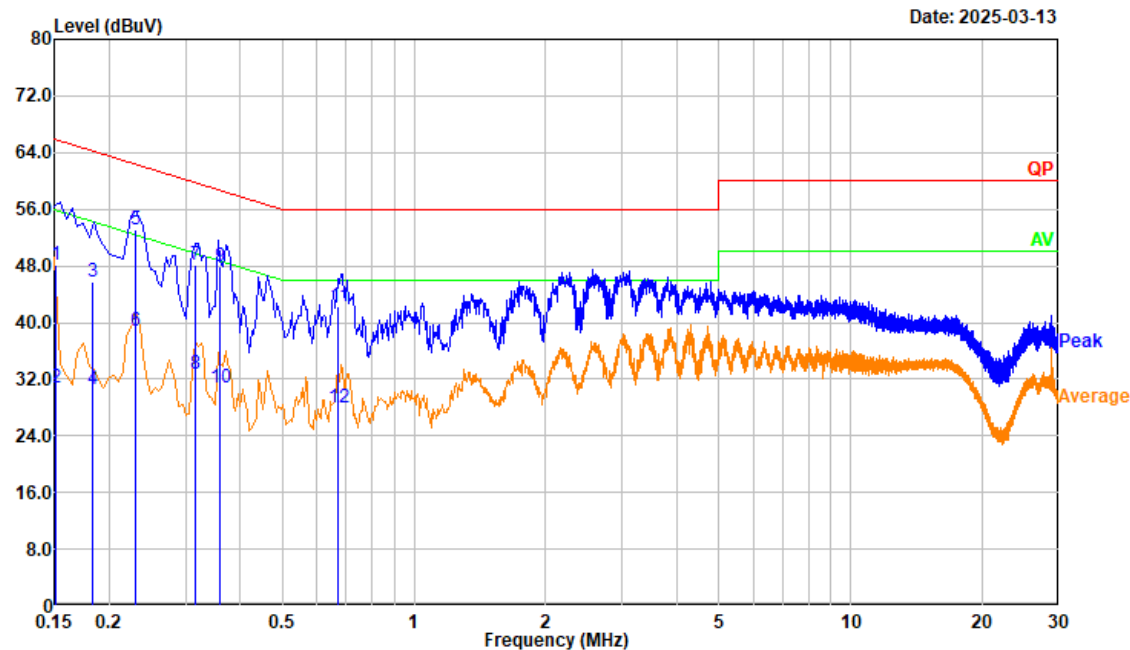
ITS-S8800
Type-C input

Project No.: 2503P42192E-RF
Tester: David Huang
Condition: IFBW:9 kHz Meas Time:0.025sec
Port: Line
Note: Transmitting BT ITS-S8800(Type-C input)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	38.19	10.40	48.59	65.94	17.35	QP
2	0.151	15.33	10.40	25.73	55.94	30.21	Average
3	0.169	35.86	10.26	46.12	65.00	18.88	QP
4	0.169	16.79	10.26	27.05	55.00	27.95	Average
5	0.233	42.30	10.06	52.36	62.35	9.99	QP
6	0.233	23.68	10.06	33.74	52.35	18.61	Average
7	0.273	35.42	10.13	45.55	61.03	15.48	QP
8	0.273	15.83	10.13	25.96	51.03	25.07	Average
9	0.354	35.78	10.27	46.05	58.86	12.81	QP
10	0.354	14.66	10.27	24.93	48.86	23.93	Average
11	0.679	33.29	10.69	43.98	56.00	12.02	QP
12	0.679	15.71	10.69	26.40	46.00	19.60	Average

Project No.: 2503P42192E-RF
 Tester: David Huang
 Condition: IFBW:9 kHz Meas Time:0.025sec
 Port: neutral
 Note: Transmitting BT ITS-S8800(Type-C input)



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB)	Result (dBμV)	Limit (dBμV)	Margin (dB)	Detector
1	0.151	37.56	10.51	48.07	65.96	17.89	QP
2	0.151	20.27	10.51	30.78	55.96	25.18	Average
3	0.184	35.28	10.37	45.65	64.30	18.65	QP
4	0.184	20.14	10.37	30.51	54.30	23.79	Average
5	0.230	42.68	10.33	53.01	62.46	9.45	QP
6	0.230	28.42	10.33	38.75	52.46	13.71	Average
7	0.315	37.84	10.39	48.23	59.84	11.61	QP
8	0.315	22.39	10.39	32.78	49.84	17.06	Average
9	0.359	37.60	10.42	48.02	58.74	10.72	QP
10	0.359	20.31	10.42	30.73	48.74	18.01	Average
11	0.672	32.11	10.25	42.36	56.00	13.64	QP
12	0.672	17.62	10.25	27.87	46.00	18.13	Average

4.2 Radiated Spurious Emissions

4.2.1 9 kHz – 1 GHz:

Sample Number:	2XL7-2,2XL7-3	Test Date:	2025/2/20
Test Site:	966-2	Test Mode:	Transmitting (maximum output power mode, 8DPSK low channel)
Tester:	Roinin Fu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3	Relative Humidity: (%)	54	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	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

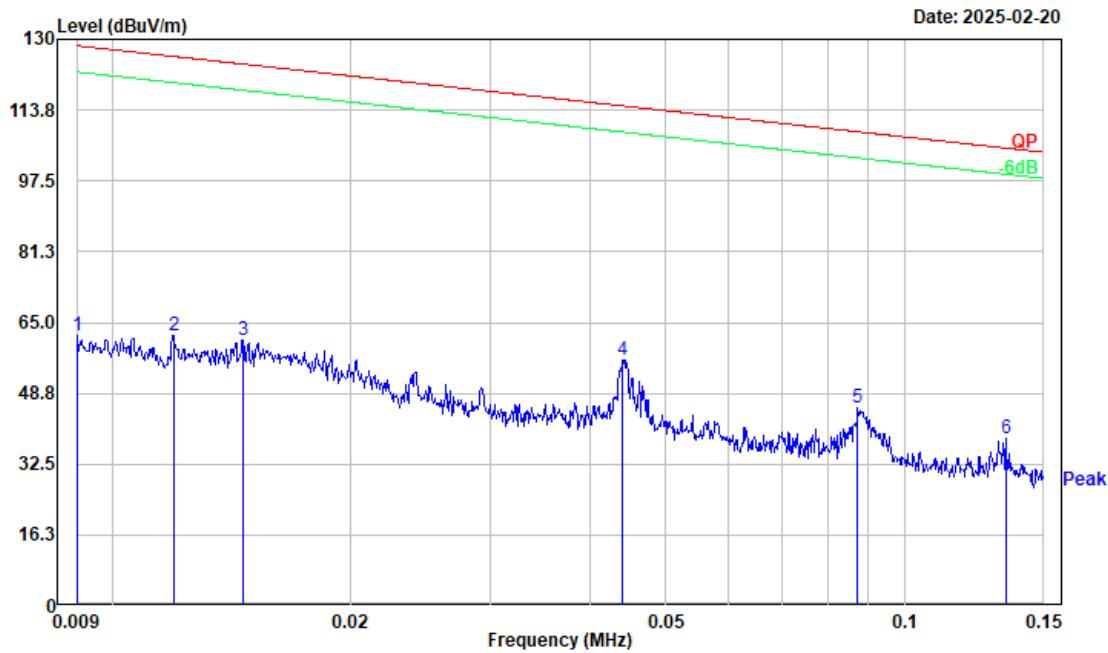
* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:

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

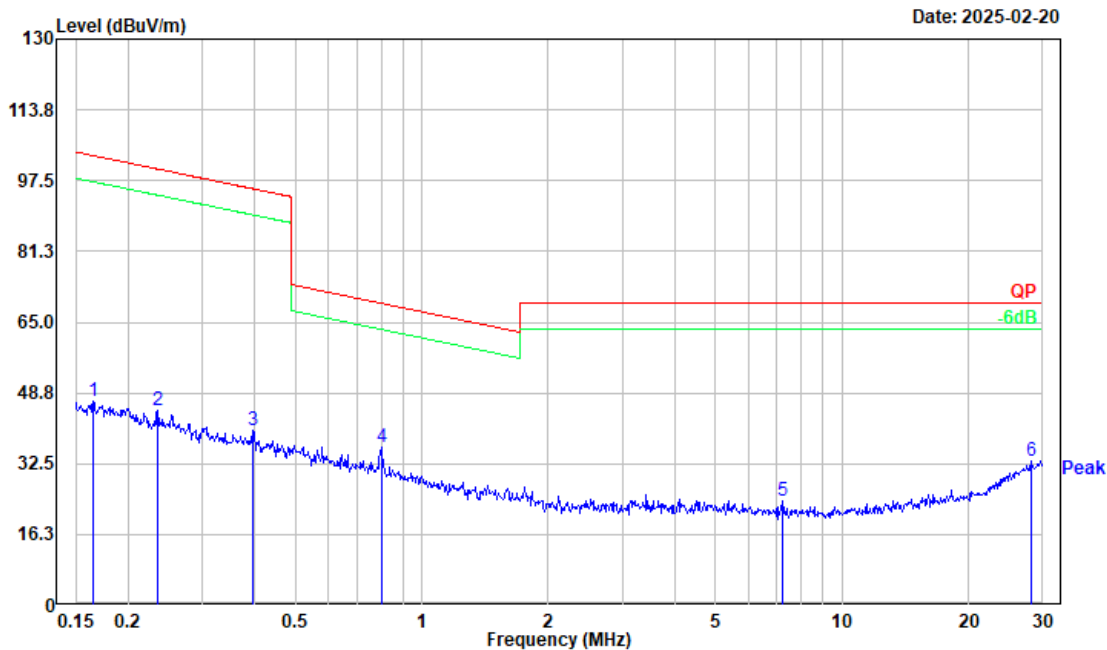
ITS-S8600
DC Adapter

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting



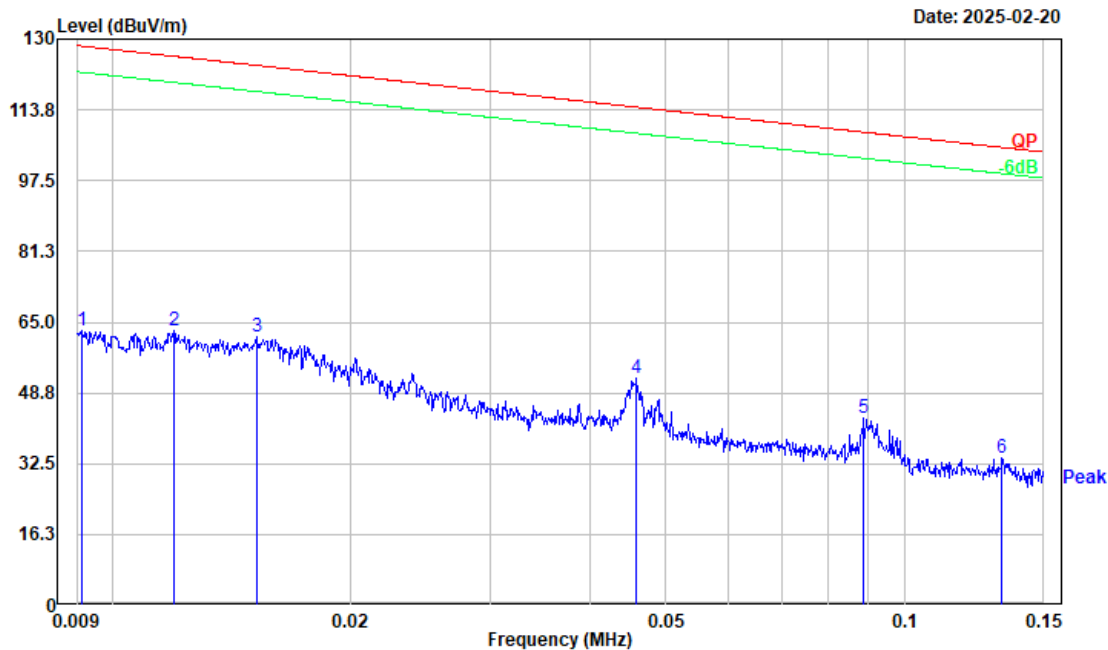
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	26.23	35.73	61.96	128.52	66.56	Peak
2	0.012	28.35	33.50	61.85	126.08	64.23	Peak
3	0.015	28.70	32.19	60.89	124.32	63.43	Peak
4	0.044	34.66	21.68	56.34	114.71	58.37	Peak
5	0.087	29.88	15.72	45.60	108.77	63.17	Peak
6	0.134	25.50	13.05	38.55	105.04	66.49	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting



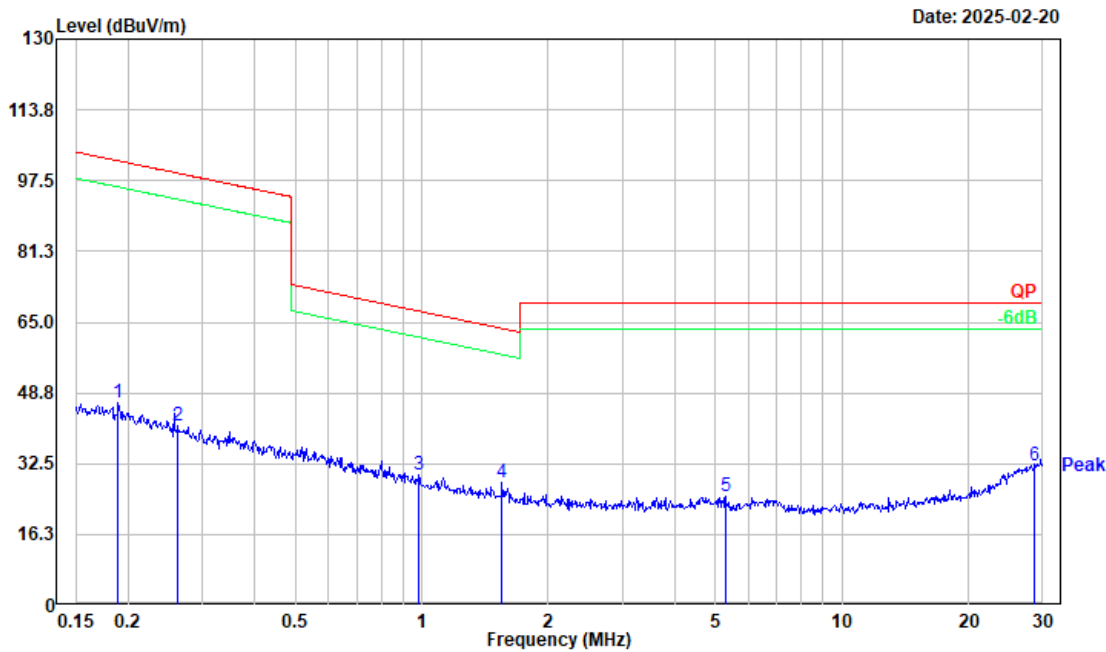
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.165	35.11	11.63	46.74	103.25	56.51	Peak
2	0.235	36.53	8.37	44.90	100.17	55.27	Peak
3	0.398	36.79	3.22	40.01	95.61	55.60	Peak
4	0.800	38.79	-2.50	36.29	69.45	33.16	Peak
5	7.213	32.84	-8.76	24.08	69.54	45.46	Peak
6	28.152	40.40	-7.37	33.03	69.54	36.51	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting



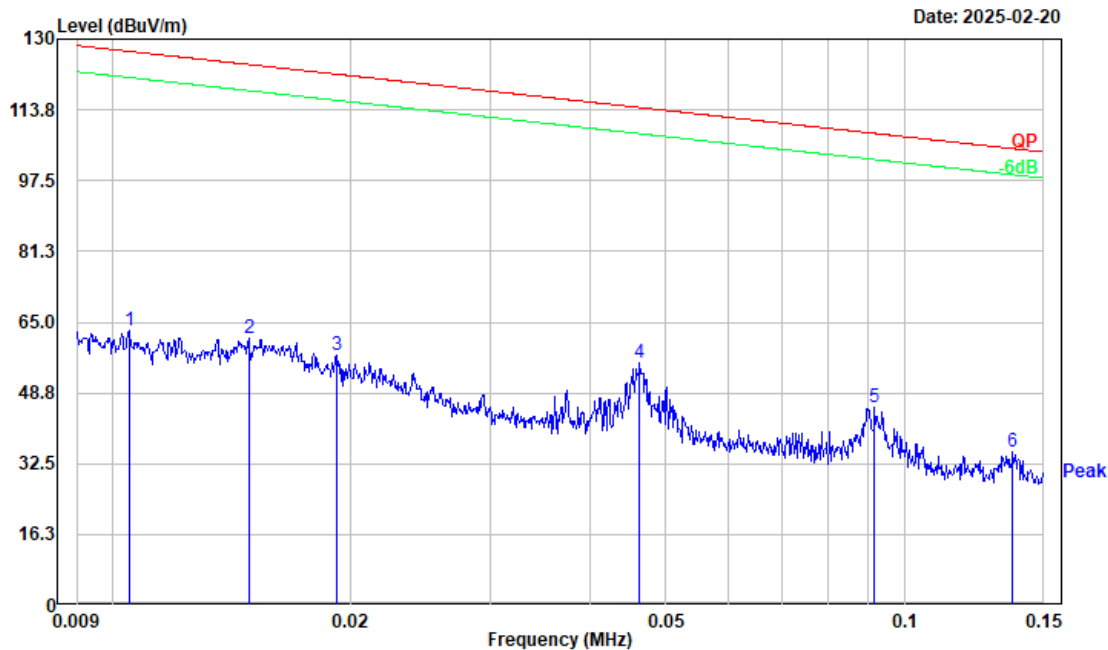
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	27.57	35.56	63.13	128.40	65.27	Peak
2	0.012	29.46	33.48	62.94	126.05	63.11	Peak
3	0.015	29.62	31.90	61.52	123.97	62.45	Peak
4	0.046	30.87	21.30	52.17	114.37	62.20	Peak
5	0.089	27.53	15.59	43.12	108.63	65.51	Peak
6	0.133	20.61	13.12	33.73	105.13	71.40	Peak

Project No.: 2503P42192E-RF
 Tester: Roinin Fu
 Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
 Polarization: Perpendicular
 Note: Transmitting



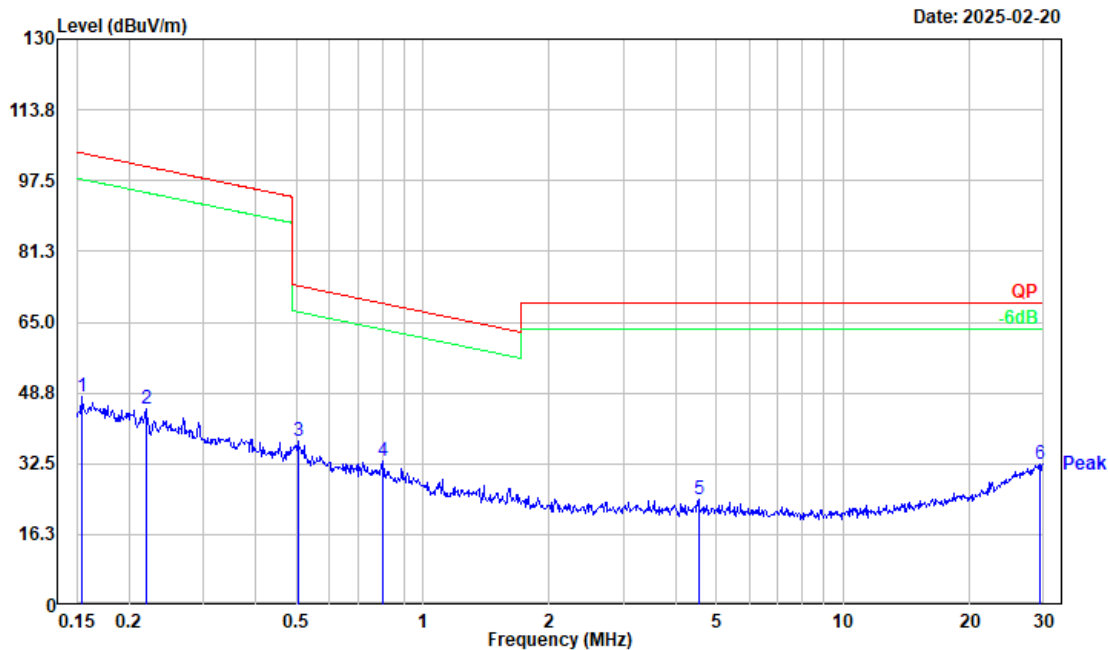
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.189	36.19	10.49	46.68	102.06	55.38	Peak
2	0.263	34.19	7.08	41.27	99.20	57.93	Peak
3	0.984	33.85	-4.06	29.79	67.62	37.83	Peak
4	1.552	34.20	-6.16	28.04	63.57	35.53	Peak
5	5.277	34.07	-8.88	25.19	69.54	44.35	Peak
6	28.603	39.39	-7.29	32.10	69.54	37.44	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



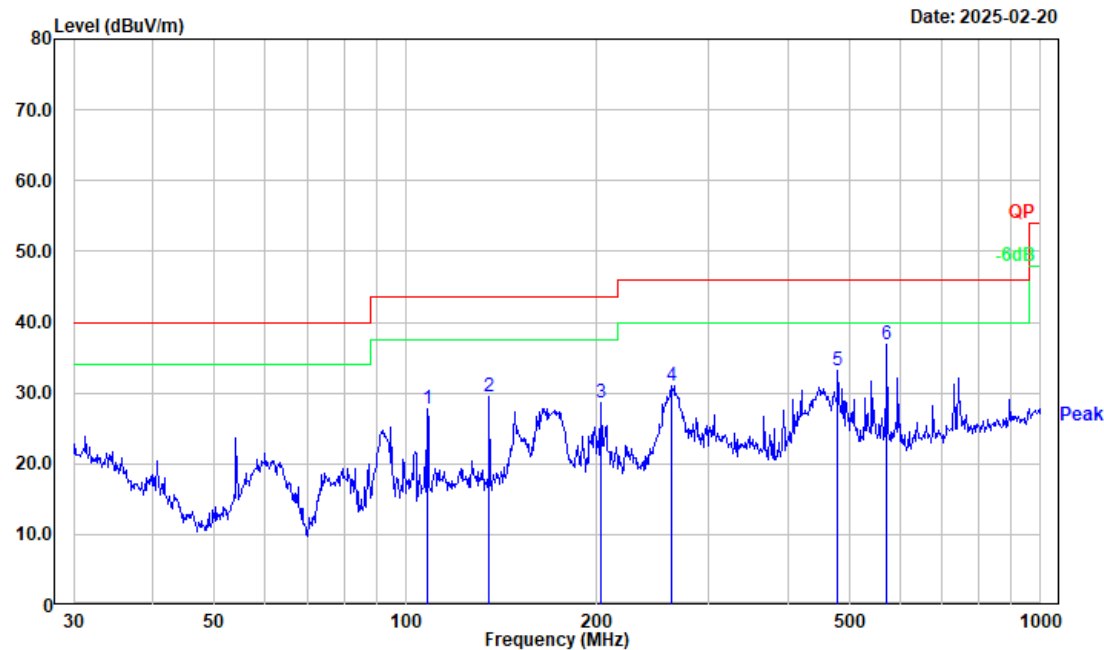
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	28.69	34.21	62.90	127.20	64.30	Peak
2	0.015	29.10	32.06	61.16	124.17	63.01	Peak
3	0.019	27.66	29.94	57.60	121.95	64.35	Peak
4	0.046	34.49	21.22	55.71	114.30	58.59	Peak
5	0.092	30.09	15.36	45.45	108.36	62.91	Peak
6	0.137	22.33	12.93	35.26	104.86	69.60	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



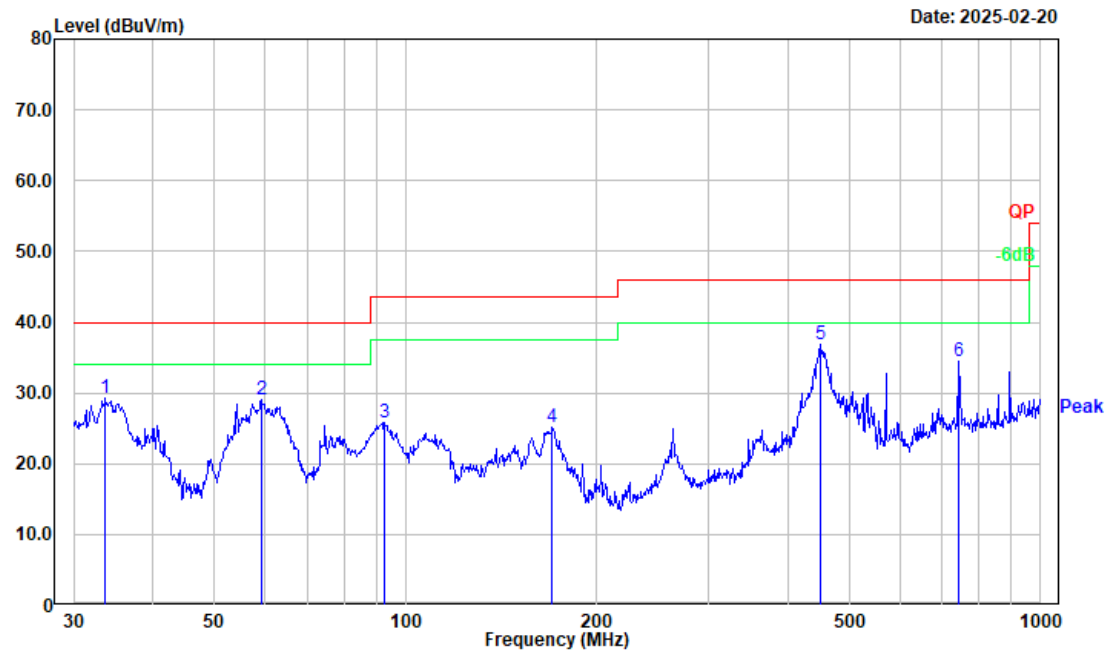
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.154	35.94	12.14	48.08	103.85	55.77	Peak
2	0.220	35.85	9.09	44.94	100.77	55.83	Peak
3	0.505	36.64	0.92	37.56	73.54	35.98	Peak
4	0.800	35.69	-2.50	33.19	69.45	36.26	Peak
5	4.525	33.15	-8.87	24.28	69.54	45.26	Peak
6	29.371	39.49	-7.17	32.32	69.54	37.22	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: horizontal
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	108.267	40.34	-12.58	27.76	43.50	15.74	Peak
2	135.506	41.19	-11.61	29.58	43.50	13.92	Peak
3	203.523	41.80	-13.08	28.72	43.50	14.78	Peak
4	261.975	42.67	-11.57	31.10	46.00	14.90	Peak
5	478.846	39.55	-6.28	33.27	46.00	12.73	Peak
6	572.614	41.67	-4.79	36.88	46.00	9.12	Peak

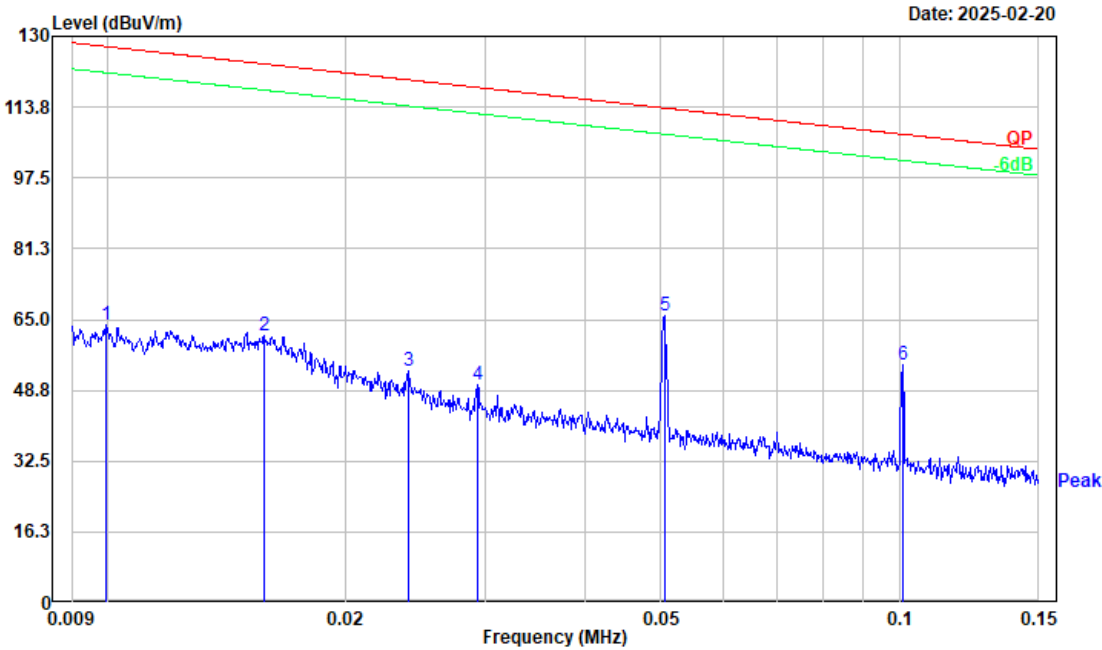
Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	33.680	35.88	-6.59	29.29	40.00	10.71	Peak
2	59.232	46.61	-17.63	28.98	40.00	11.02	Peak
3	92.462	42.31	-16.53	25.78	43.50	17.72	Peak
4	170.195	37.89	-12.66	25.23	43.50	18.27	Peak
5	449.556	43.95	-7.03	36.92	46.00	9.08	Peak
6	744.866	37.14	-2.68	34.46	46.00	11.54	Peak

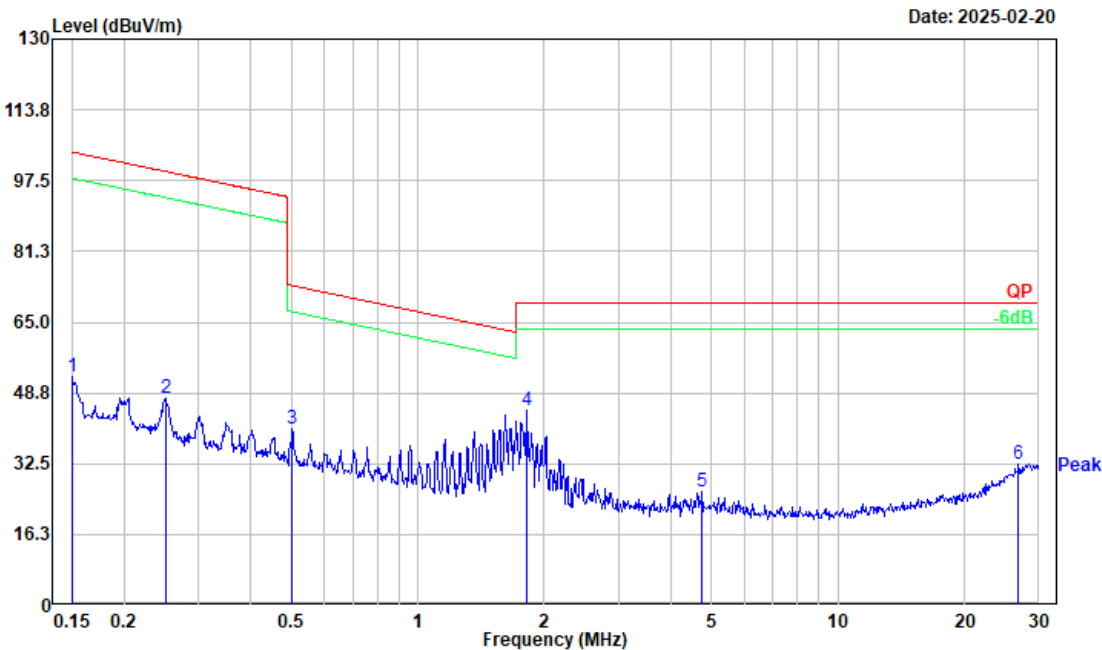
Type-C input

Project No.: 2503P42192E-RF
 Tester: Roinin Fu
 Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
 Polarization: Parallel
 Note: Transmitting



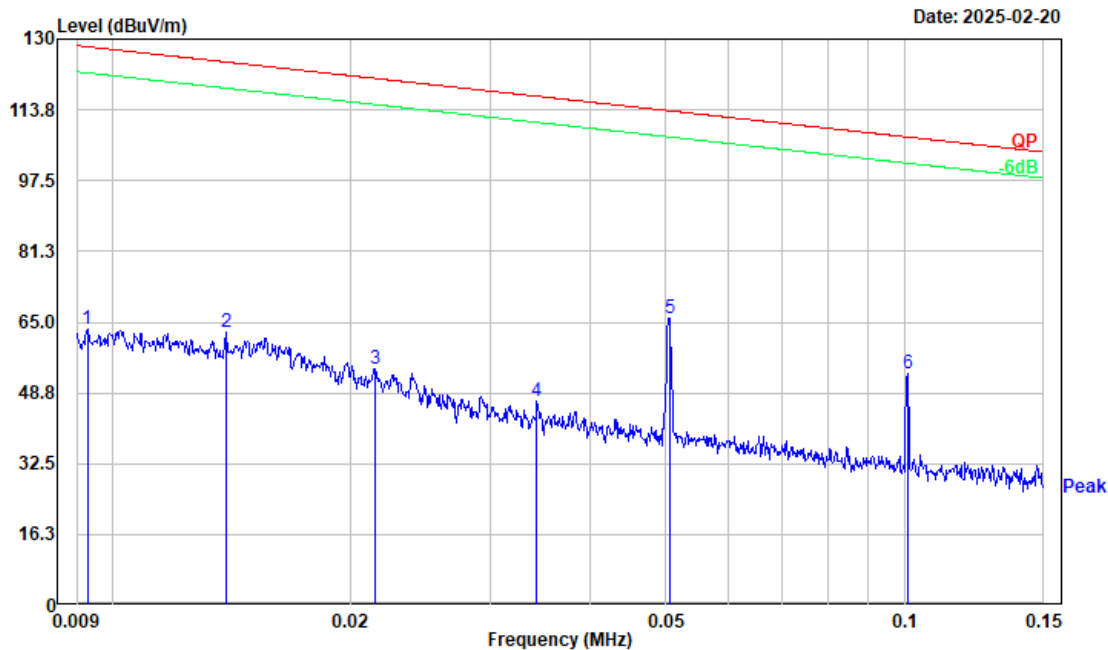
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	29.28	34.49	63.77	127.64	63.87	Peak
2	0.016	29.71	31.62	61.33	123.66	62.33	Peak
3	0.024	25.60	27.57	53.17	119.99	66.82	Peak
4	0.029	25.15	24.96	50.11	118.26	68.15	Peak
5	0.050	45.63	20.37	66.00	113.54	47.54	Peak
6	0.101	40.07	14.60	54.67	107.50	52.83	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting



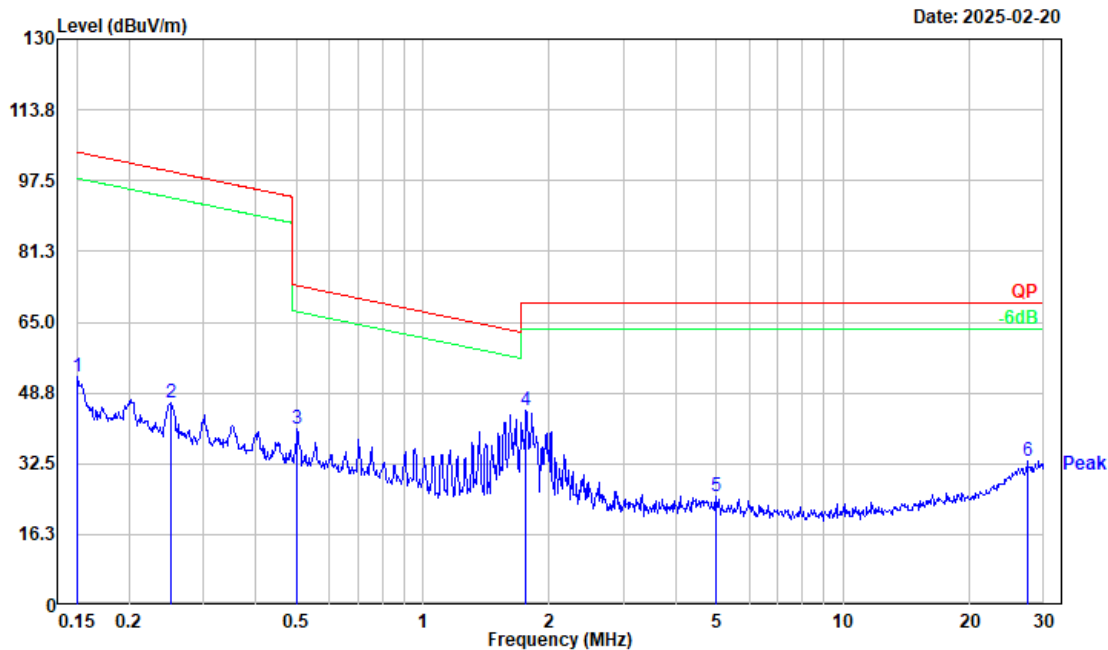
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.150	40.12	12.33	52.45	104.08	51.63	Peak
2	0.251	39.82	7.65	47.47	99.62	52.15	Peak
3	0.502	39.53	0.95	40.48	73.58	33.10	Peak
4	1.819	51.90	-7.10	44.80	69.54	24.74	Peak
5	4.746	34.95	-8.88	26.07	69.54	43.47	Peak
6	26.841	40.00	-7.46	32.54	69.54	37.00	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting



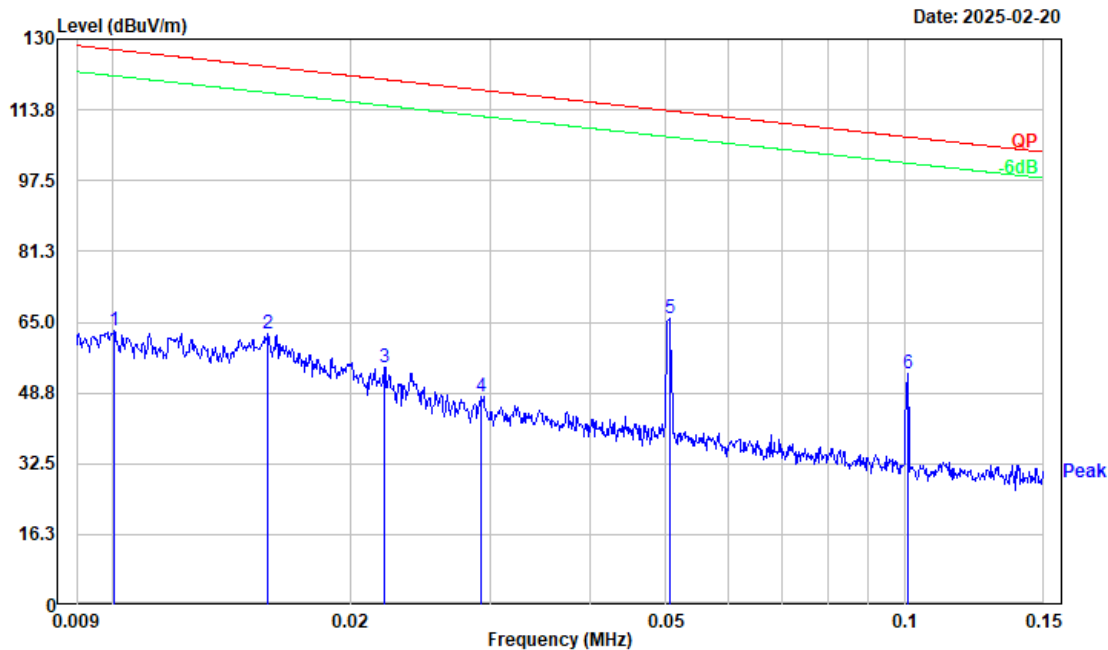
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.009	27.88	35.36	63.24	128.25	65.01	Peak
2	0.014	30.11	32.54	62.65	124.76	62.11	Peak
3	0.021	25.47	28.85	54.32	120.99	66.67	Peak
4	0.034	23.13	23.73	46.86	116.89	70.03	Peak
5	0.050	45.55	20.37	65.92	113.54	47.62	Peak
6	0.101	38.63	14.61	53.24	107.53	54.29	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting



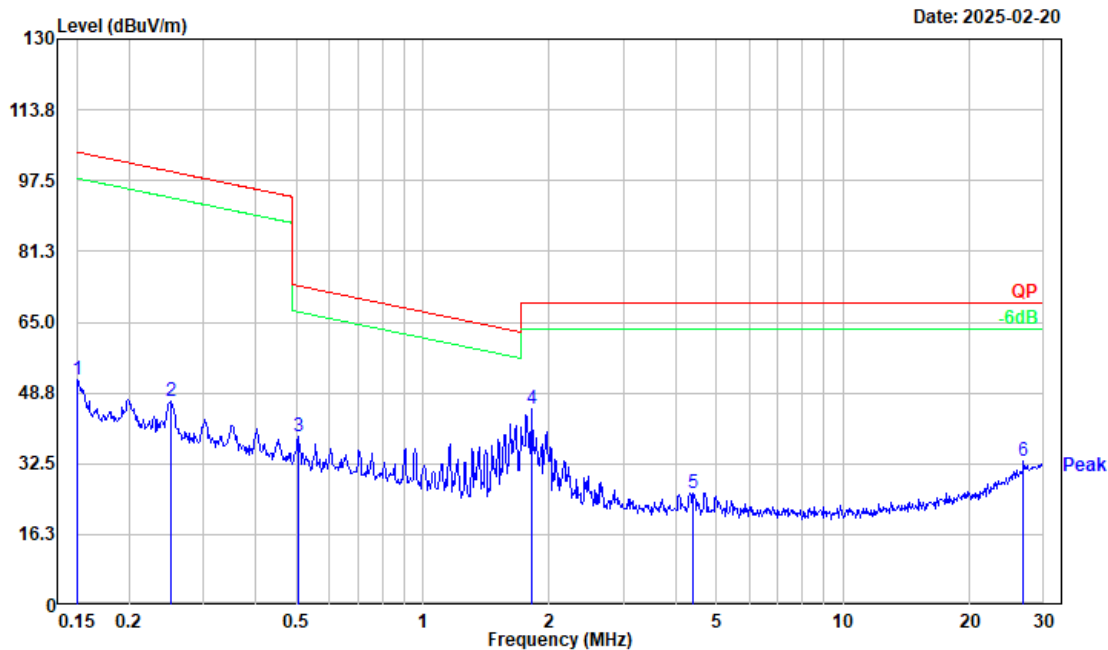
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.150	40.09	12.33	52.42	104.08	51.66	Peak
2	0.252	38.90	7.59	46.49	99.57	53.08	Peak
3	0.502	39.56	0.95	40.51	73.58	33.07	Peak
4	1.762	51.71	-6.89	44.82	69.54	24.72	Peak
5	4.978	33.88	-8.88	25.00	69.54	44.54	Peak
6	27.416	40.62	-7.43	33.19	69.54	36.35	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



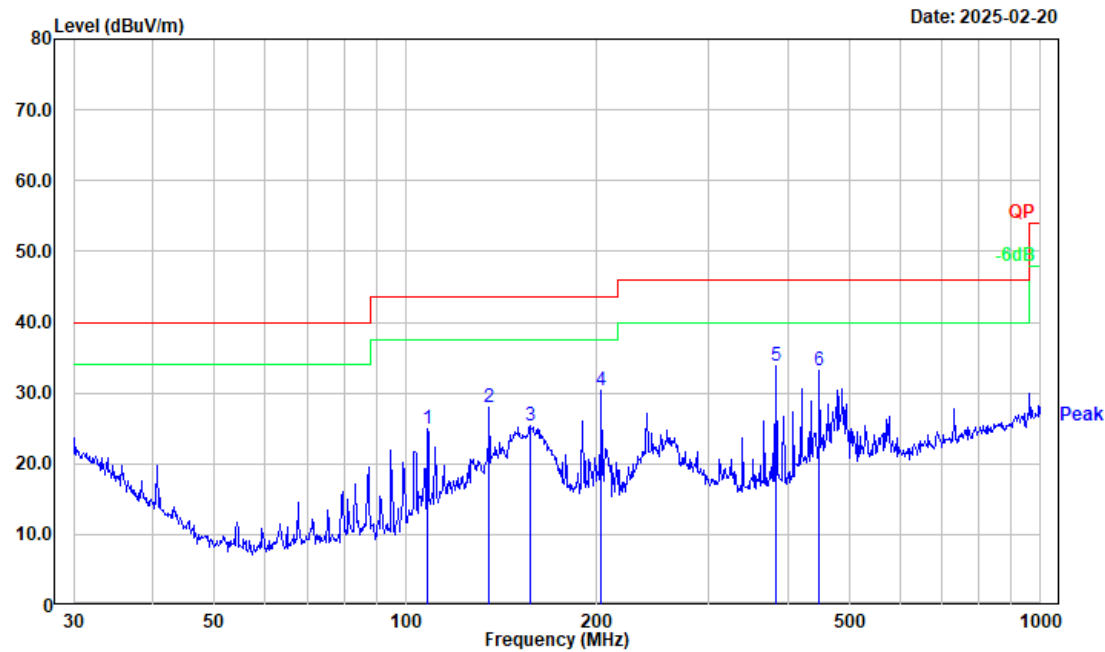
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.010	28.48	34.42	62.90	127.57	64.67	Peak
2	0.016	30.56	31.64	62.20	123.68	61.48	Peak
3	0.022	26.01	28.55	54.56	120.75	66.19	Peak
4	0.029	22.76	25.01	47.77	118.28	70.51	Peak
5	0.050	45.35	20.37	65.72	113.54	47.82	Peak
6	0.101	38.61	14.61	53.22	107.53	54.31	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



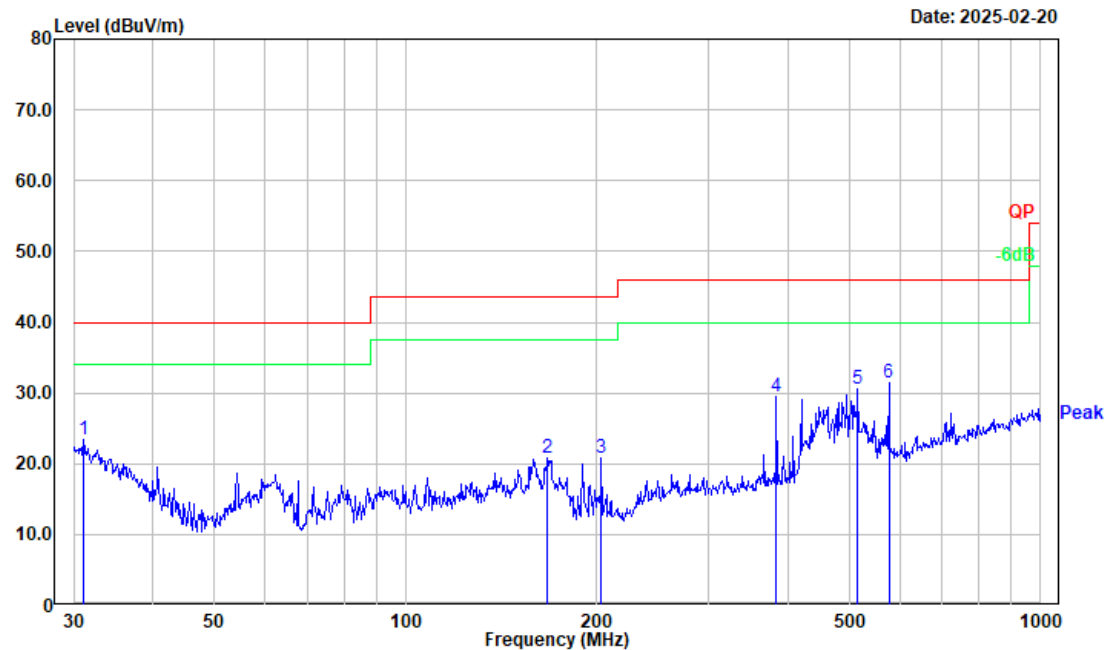
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	0.151	39.49	12.29	51.78	104.04	52.26	Peak
2	0.251	39.28	7.65	46.93	99.62	52.69	Peak
3	0.507	37.80	0.88	38.68	73.49	34.81	Peak
4	1.819	52.33	-7.10	45.23	69.54	24.31	Peak
5	4.407	34.68	-8.87	25.81	69.54	43.73	Peak
6	26.841	40.46	-7.46	33.00	69.54	36.54	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: horizontal
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	108.267	37.61	-12.58	25.03	43.50	18.47	Peak
2	135.506	39.57	-11.61	27.96	43.50	15.54	Peak
3	157.559	37.22	-11.91	25.31	43.50	18.19	Peak
4	203.523	43.46	-13.08	30.38	43.50	13.12	Peak
5	383.932	42.53	-8.74	33.79	46.00	12.21	Peak
6	447.982	40.23	-7.02	33.21	46.00	12.79	Peak

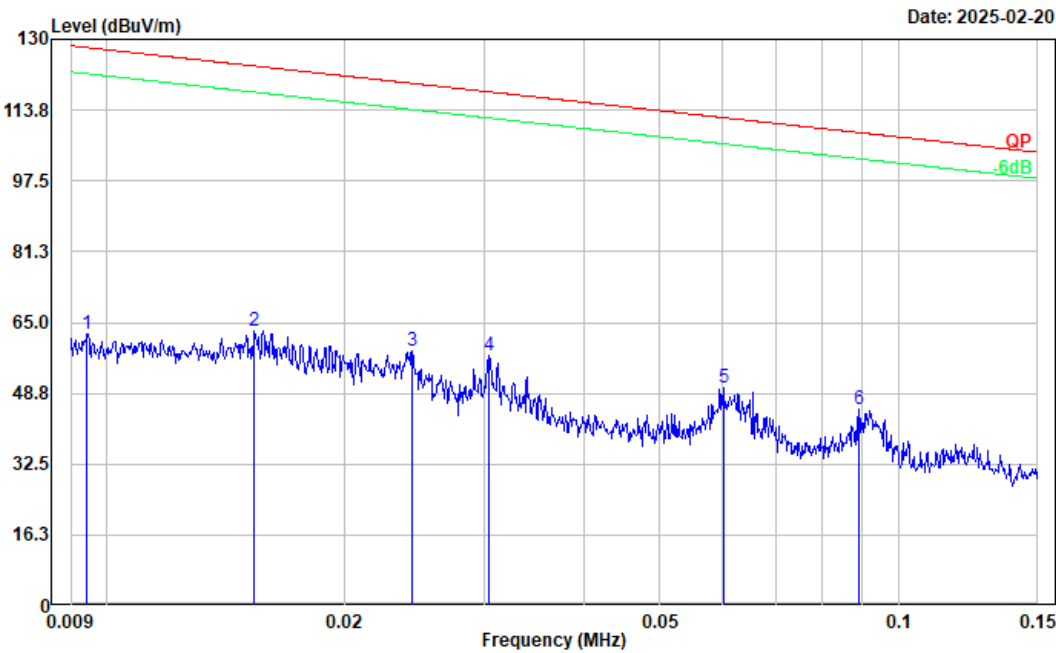
Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	31.071	27.90	-4.49	23.41	40.00	16.59	Peak
2	167.237	33.14	-12.36	20.78	43.50	22.72	Peak
3	203.523	33.79	-13.08	20.71	43.50	22.79	Peak
4	383.932	38.15	-8.74	29.41	46.00	16.59	Peak
5	515.437	36.25	-5.76	30.49	46.00	15.51	Peak
6	576.644	36.01	-4.64	31.37	46.00	14.63	Peak

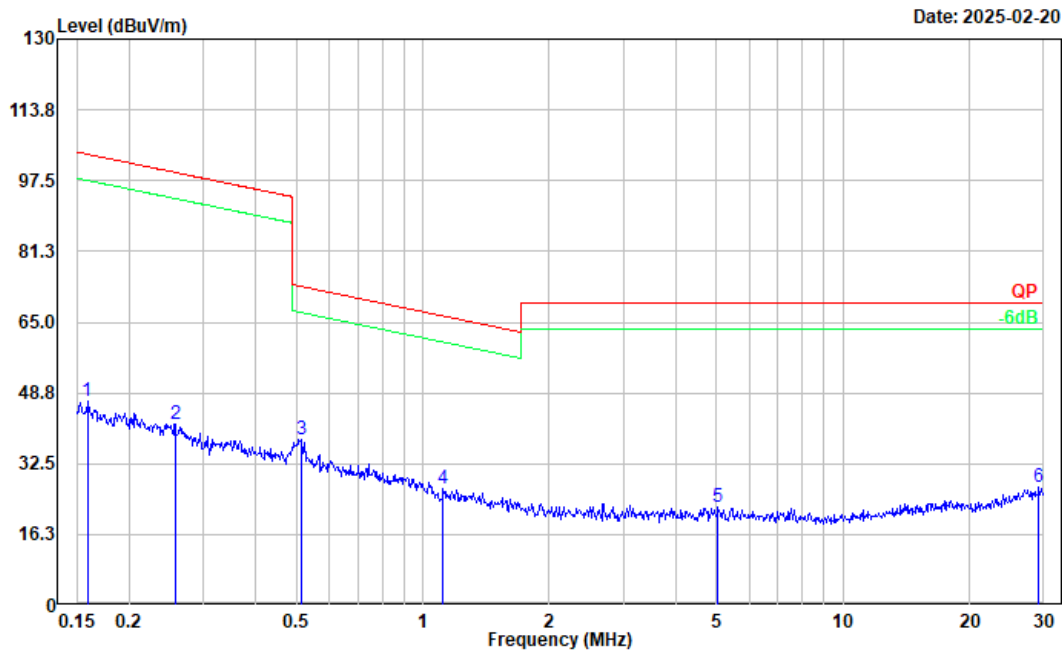
ITS-8800
DC Adapter

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting



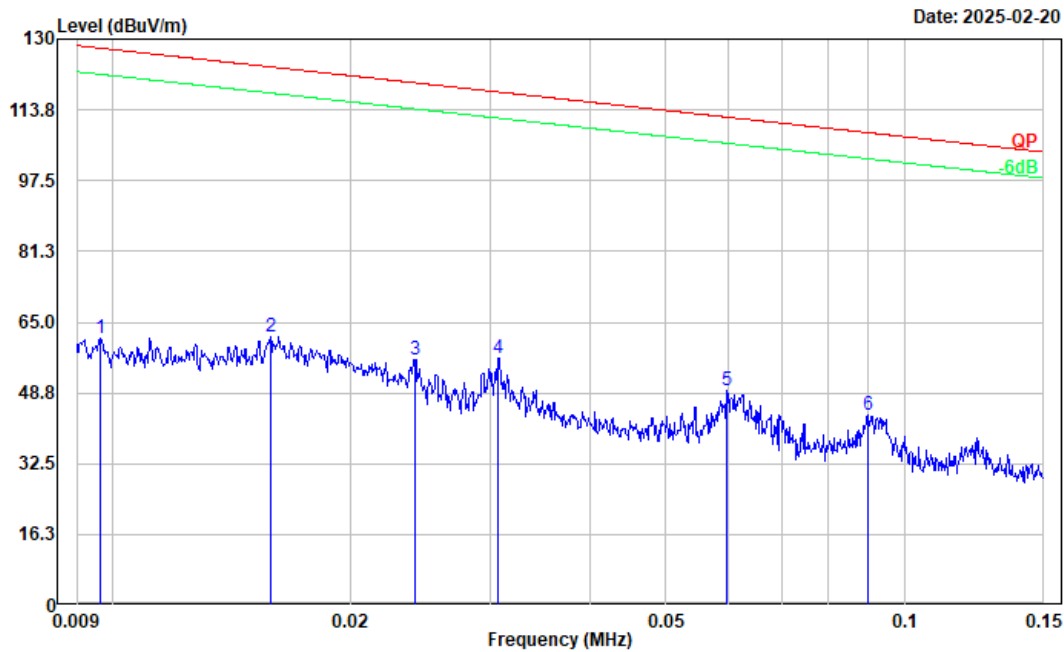
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.009	27.09	35.16	62.25	128.10	65.85	Peak
2	0.015	31.28	31.81	63.09	123.88	60.79	Peak
3	0.024	30.91	27.43	58.34	119.89	61.55	Peak
4	0.030	32.96	24.55	57.51	117.94	60.43	Peak
5	0.060	30.84	19.06	49.90	112.02	62.12	Peak
6	0.089	29.69	15.57	45.26	108.60	63.34	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Parallel
Note: Transmitting



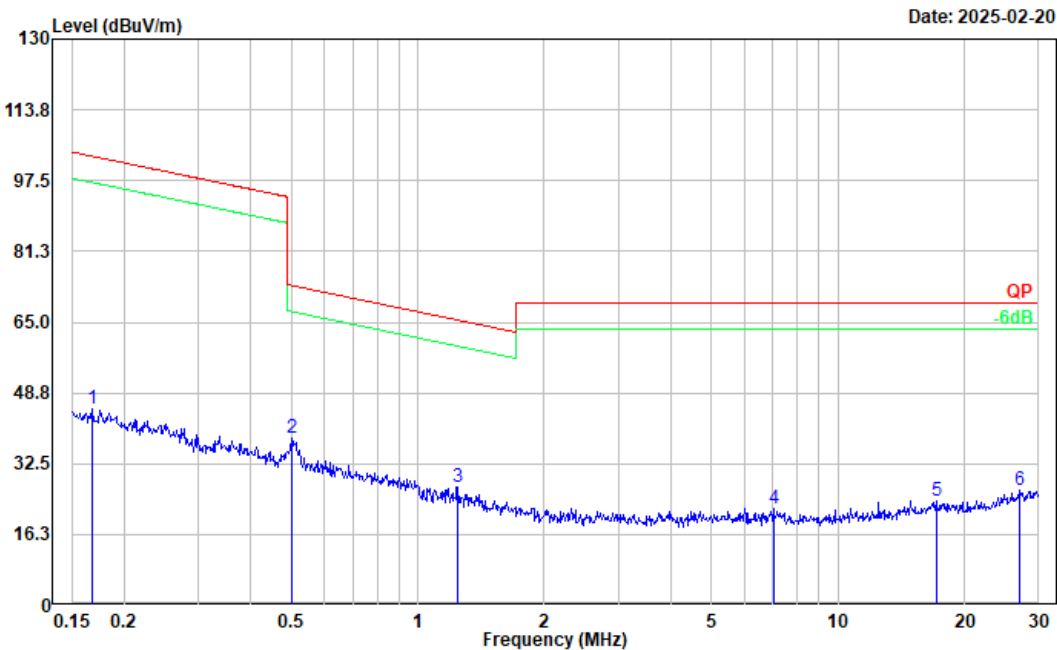
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.159	35.01	11.91	46.92	103.58	56.66	Peak
2	0.258	34.39	7.34	41.73	99.39	57.66	Peak
3	0.516	37.34	0.79	38.13	73.35	35.22	Peak
4	1.117	31.37	-4.61	26.76	66.49	39.73	Peak
5	5.031	31.26	-8.88	22.38	69.54	47.16	Peak
6	29.216	34.27	-7.20	27.07	69.54	42.47	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting



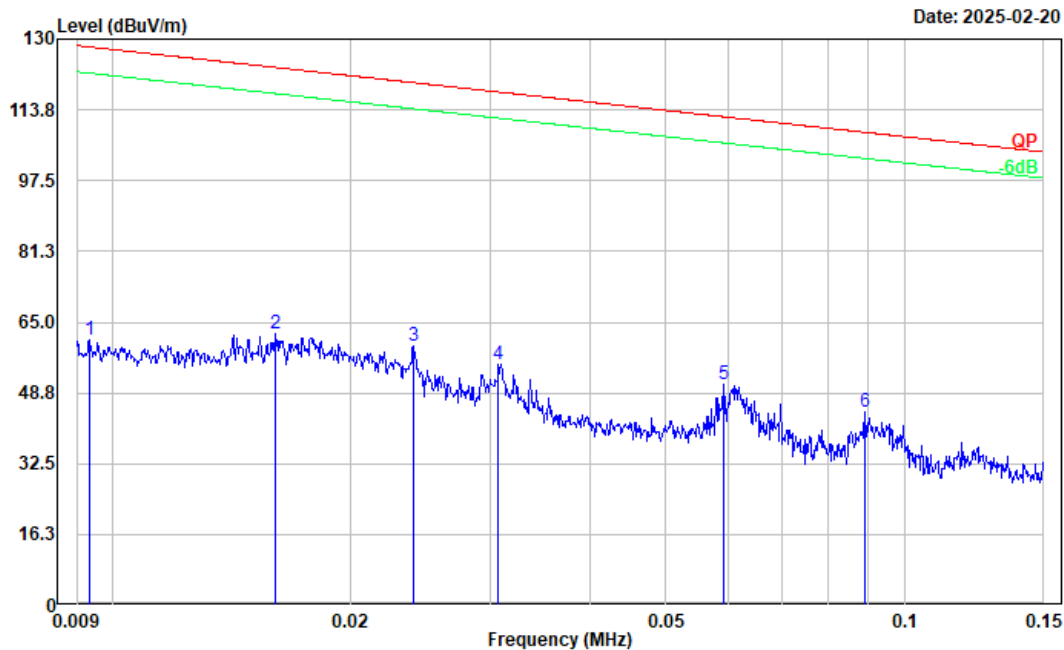
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.010	26.25	34.92	61.17	127.93	66.76	Peak
2	0.016	30.16	31.60	61.76	123.63	61.87	Peak
3	0.024	29.01	27.53	56.54	119.97	63.43	Peak
4	0.031	32.18	24.51	56.69	117.89	61.20	Peak
5	0.060	30.27	19.10	49.37	112.07	62.70	Peak
6	0.090	28.13	15.49	43.62	108.51	64.89	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Perpendicular
Note: Transmitting



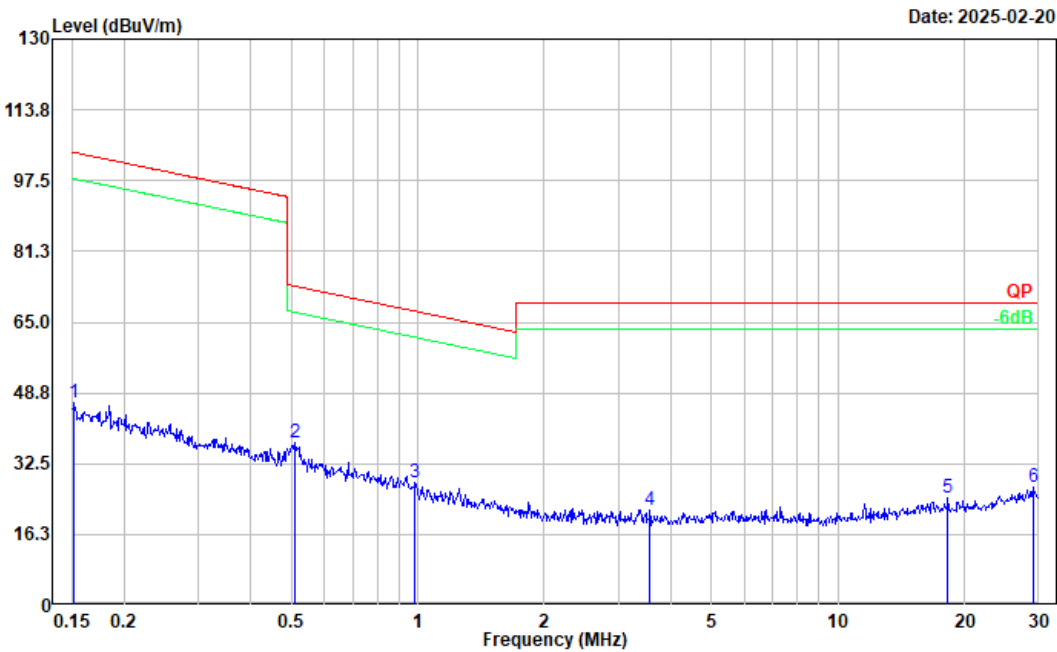
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.168	33.64	11.50	45.14	103.12	57.98	Peak
2	0.502	37.53	0.95	38.48	73.58	35.10	Peak
3	1.242	32.32	-5.06	27.26	65.55	38.29	Peak
4	7.025	30.91	-8.78	22.13	69.54	47.41	Peak
5	17.109	31.50	-7.58	23.92	69.54	45.62	Peak
6	26.984	34.04	-7.45	26.59	69.54	42.95	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:0.3 kHz VBW:1 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



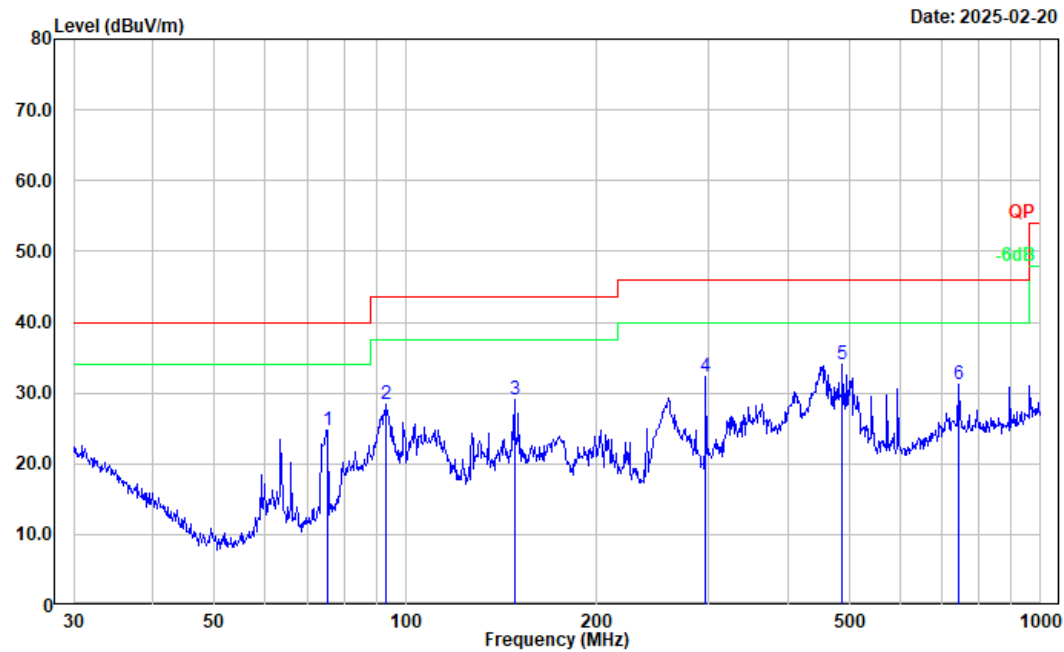
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.009	25.67	35.29	60.96	128.20	67.24	Peak
2	0.016	30.73	31.47	62.20	123.49	61.29	Peak
3	0.024	32.08	27.60	59.68	120.02	60.34	Peak
4	0.031	30.89	24.50	55.39	117.87	62.48	Peak
5	0.059	31.44	19.19	50.63	112.17	61.54	Peak
6	0.089	28.64	15.57	44.21	108.60	64.39	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:10 kHz VBW:30 kHz SWT:0.1 sec
Polarization: Ground-parallel
Note: Transmitting



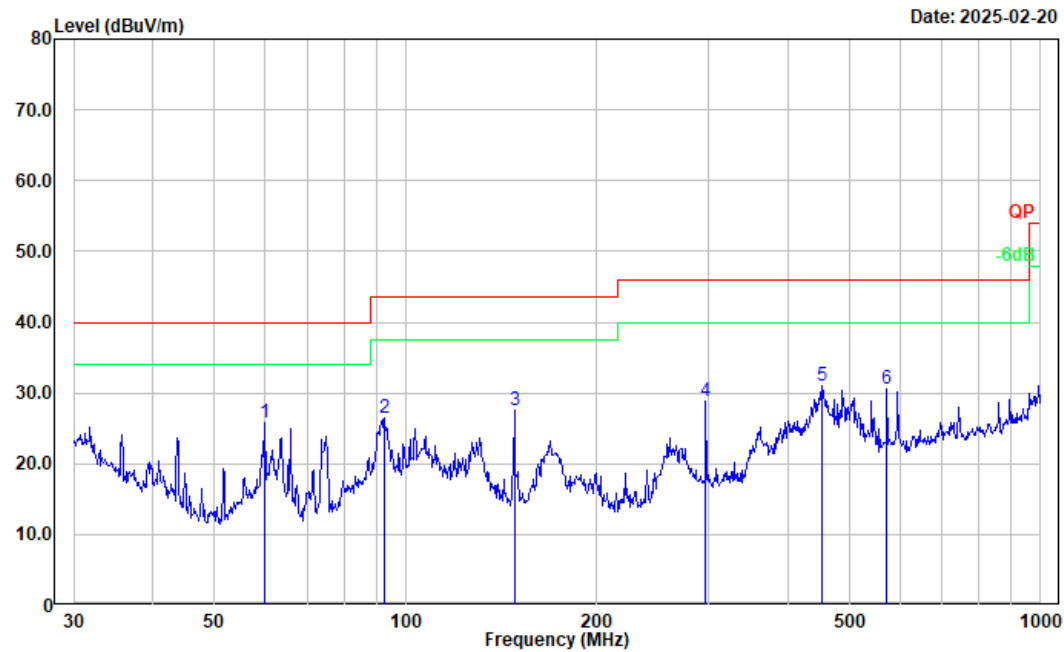
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	0.152	34.17	12.21	46.38	103.94	57.56	Peak
2	0.510	36.57	0.85	37.42	73.44	36.02	Peak
3	0.984	32.36	-4.06	28.30	67.62	39.32	Peak
4	3.565	30.60	-8.62	21.98	69.54	47.56	Peak
5	18.232	32.34	-7.70	24.64	69.54	44.90	Peak
6	29.061	34.20	-7.22	26.98	69.54	42.56	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: horizontal
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	75.182	41.93	-17.22	24.71	40.00	15.29	Peak
2	93.113	44.82	-16.39	28.43	43.50	15.07	Peak
3	148.441	41.25	-12.21	29.04	43.50	14.46	Peak
4	297.224	42.81	-10.54	32.27	46.00	13.73	Peak
5	487.315	40.18	-6.11	34.07	46.00	11.93	Peak
6	744.866	34.01	-2.68	31.33	46.00	14.67	Peak

Project No.: 2503P42192E-RF
Tester: Roinin Fu
Condition: RBW:100 kHz VBW:300 kHz SWT:0.1 sec
Polarization: vertical
Note: Transmitting



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	60.069	43.40	-17.70	25.70	40.00	14.30	Peak
2	92.462	42.87	-16.53	26.34	43.50	17.16	Peak
3	148.441	39.83	-12.21	27.62	43.50	15.88	Peak
4	297.224	39.40	-10.54	28.86	46.00	17.14	Peak
5	452.720	37.95	-6.97	30.98	46.00	15.02	Peak
6	572.614	35.36	-4.79	30.57	46.00	15.43	Peak

4.2.2 1 GHz – 25 GHz:

Sample Number	2XL7-2	Test Date:	2025/2/22-2025/2/24
Test Site:	966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.8-24.4	Relative Humidity: (%)	39-50	ATM Pressure: (kPa)	101.3-101.7
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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	2025/1/10	2026/1/9
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2025/1/10	2026/1/9
A.H	Preamplifier	PAM-0118P	628	2025/2/21	2026/2/20
Audix	Test Software	E3	191218 (V9)	N/A	N/A
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2024/2/4	2027/2/3
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2025/1/6	2026/1/5
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	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:

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

BDR Mode(GFSK):

Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	46.98	PK	H	-5.31	41.67	74.00	32.33
4804.000	46.69	PK	V	-5.31	41.38	74.00	32.62
7206.000	49.33	PK	H	-2.05	47.28	74.00	26.72
7206.000	36.98	AV	H	-2.05	34.93	54.00	19.07
7206.000	47.45	PK	V	-2.05	45.40	74.00	28.60
7206.000	35.61	AV	V	-2.05	33.56	54.00	20.44
Middle Channel:				2441	MHz		
4882.000	46.69	PK	H	-5.29	41.40	74.00	32.60
4882.000	47.22	PK	V	-5.29	41.93	74.00	32.07
7323.000	47.17	PK	H	-1.17	46.00	74.00	28.00
7323.000	35.88	AV	H	-1.17	34.71	54.00	19.29
7323.000	46.61	PK	V	-1.17	45.44	74.00	28.56
7323.000	34.12	AV	V	-1.17	32.95	54.00	21.05
High Channel:				2480	MHz		
4960.000	46.57	PK	H	-5.33	41.24	74.00	32.76
4960.000	46.21	PK	V	-5.33	40.88	74.00	33.12
7440.000	47.04	PK	H	-1.21	45.83	74.00	28.17
7440.000	35.40	AV	H	-1.21	34.19	54.00	19.81
7440.000	46.56	PK	V	-1.21	45.35	74.00	28.65
7440.000	34.35	AV	V	-1.21	33.14	54.00	20.86

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

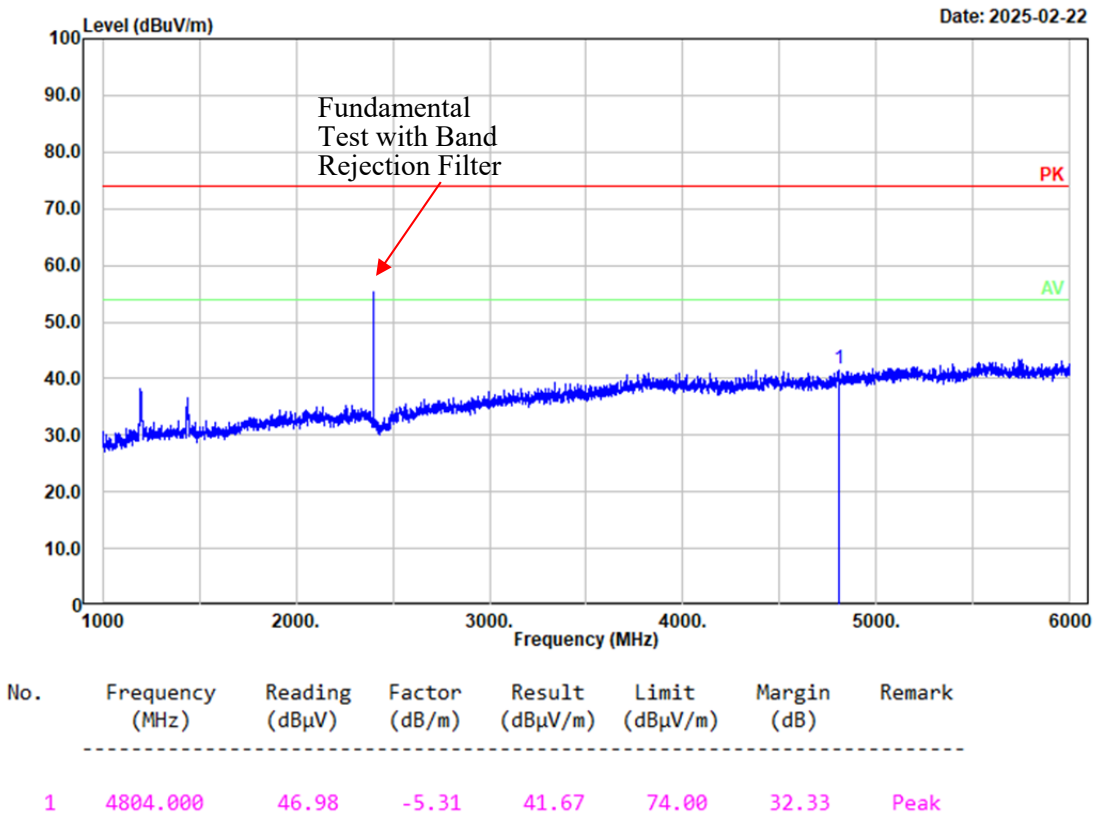
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	45.78	PK	H	-5.31	40.47	74.00	33.53
4804.000	46.41	PK	V	-5.31	41.10	74.00	32.90
7206.000	46.25	PK	H	-2.05	44.20	74.00	29.80
7206.000	34.63	AV	H	-2.05	32.58	54.00	21.42
7206.000	46.09	PK	V	-2.05	44.04	74.00	29.96
7206.000	34.77	AV	V	-2.05	32.72	54.00	21.28
Middle Channel:				2441	MHz		
4882.000	46.03	PK	H	-5.29	40.74	74.00	33.26
4882.000	45.75	PK	V	-5.29	40.46	74.00	33.54
7323.000	46.66	PK	H	-1.17	45.49	74.00	28.51
7323.000	34.07	AV	H	-1.17	32.90	54.00	21.10
7323.000	46.68	PK	V	-1.17	45.51	74.00	28.49
7323.000	34.22	AV	V	-1.17	33.05	54.00	20.95
High Channel:				2480	MHz		
4960.000	46.32	PK	H	-5.33	40.99	74.00	33.01
4960.000	46.58	PK	V	-5.33	41.25	74.00	32.75
7440.000	45.96	PK	H	-1.21	44.75	74.00	29.25
7440.000	33.62	AV	H	-1.21	32.41	54.00	21.59
7440.000	46.08	PK	V	-1.21	44.87	74.00	29.13
7440.000	34.47	AV	V	-1.21	33.26	54.00	20.74

EDR Mode (8DPSK):

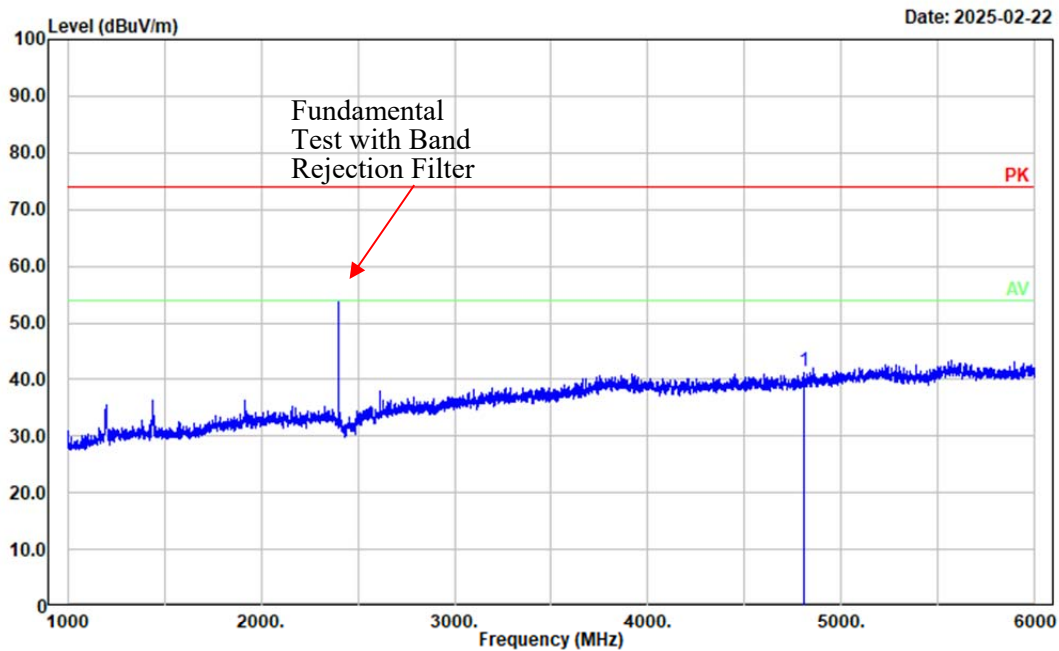
Frequency (MHz)	Receiver		Polar (H/V)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)
	Reading (dBμV)	Remark					
Low Channel:				2402	MHz		
4804.000	46.32	PK	H	-5.31	41.01	74.00	32.99
4804.000	45.89	PK	V	-5.31	40.58	74.00	33.42
7206.000	45.78	PK	H	-2.05	43.73	74.00	30.27
7206.000	33.45	AV	H	-2.05	31.40	54.00	22.60
7206.000	46.96	PK	V	-2.05	44.91	74.00	29.09
7206.000	34.21	AV	V	-2.05	32.16	54.00	21.84
Middle Channel:				2441	MHz		
4882.000	46.32	PK	H	-5.29	41.03	74.00	32.97
4882.000	46.08	PK	V	-5.29	40.79	74.00	33.21
7323.000	45.56	PK	H	-1.17	44.39	74.00	29.61
7323.000	33.44	AV	H	-1.17	32.27	54.00	21.73
7323.000	46.17	PK	V	-1.17	45.00	74.00	29.00
7323.000	34.41	AV	V	-1.17	33.24	54.00	20.76
High Channel:				2480	MHz		
4960.000	46.03	PK	H	-5.33	40.70	74.00	33.30
4960.000	46.52	PK	V	-5.33	41.19	74.00	32.81
7440.000	45.35	PK	H	-1.21	44.14	74.00	29.86
7440.000	33.21	AV	H	-1.21	32.00	54.00	22.00
7440.000	46.17	PK	V	-1.21	44.96	74.00	29.04
7440.000	34.87	AV	V	-1.21	33.66	54.00	20.34

Worst radiation spurious emissions margin test plots for each mode
Note: for 18 – 25 GHz range, only report the worst case mode

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: horizontal
Note: BDR Low Channel 2402MHz

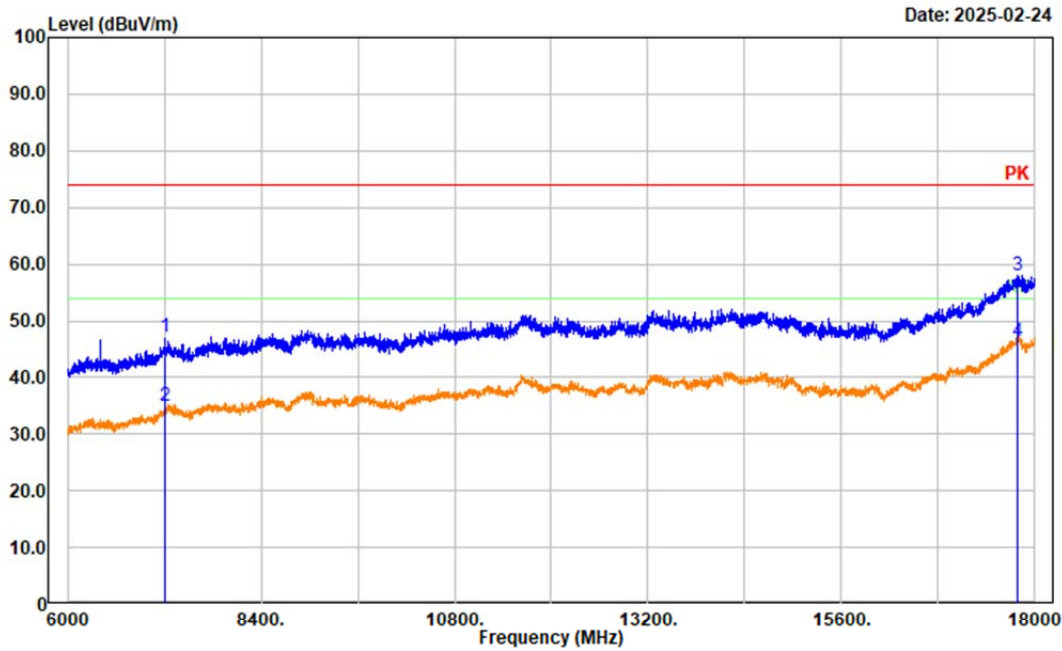


Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: vertical
Note: BDR Low Channel 2402MHz



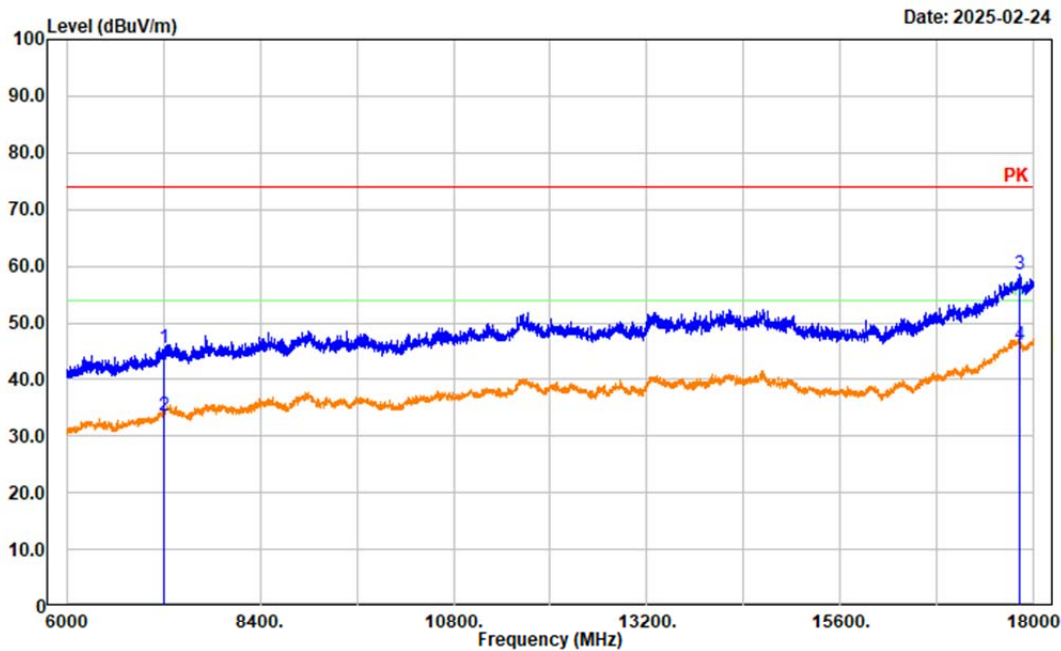
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4804.000	46.69	-5.31	41.38	74.00	32.62	Peak

Project No.: 2503P42192E-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: BDR Low Channel 2402MHz



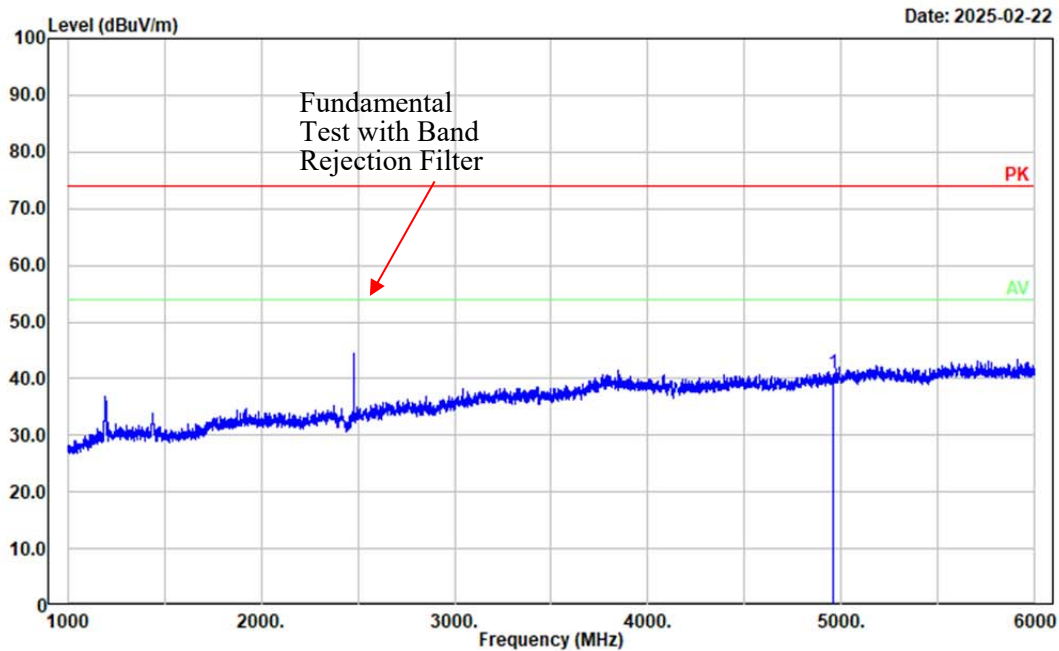
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector
1	7206.000	49.33	-2.05	47.28	74.00	26.72	Peak
2	7206.000	36.98	-2.05	34.93	54.00	19.07	Average
3	17788.800	44.60	13.50	58.10	74.00	15.90	Peak
4	17788.800	32.82	13.50	46.32	54.00	7.68	Average

Project No.: 2503P42192E-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: BDR Low Channel 2402MHz



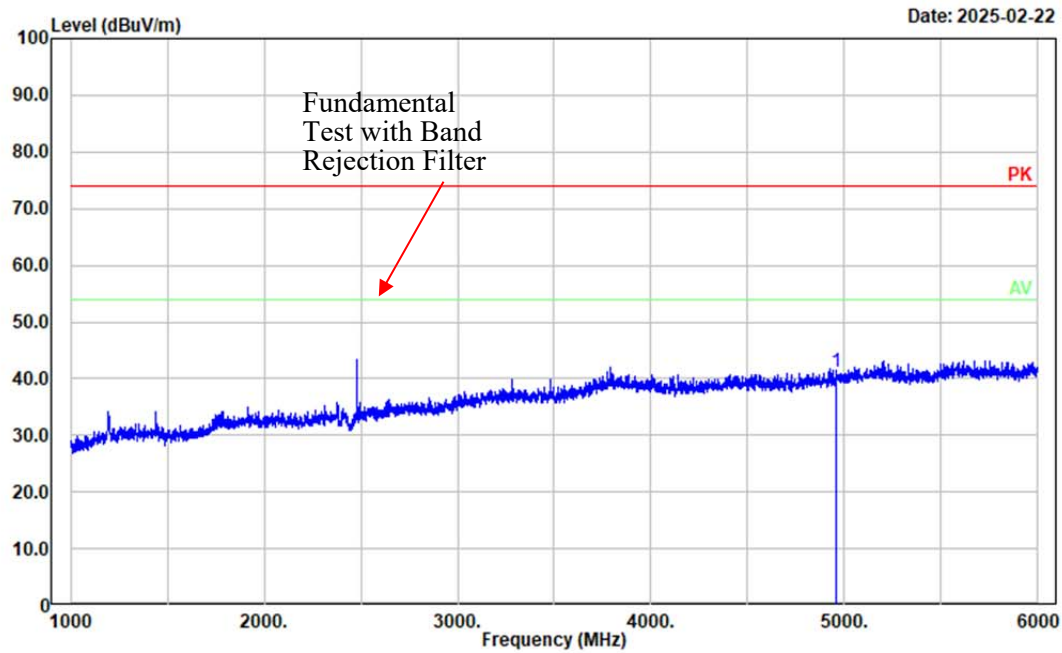
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7206.000	47.45	-2.05	45.40	74.00	28.60	Peak
2	7206.000	35.61	-2.05	33.56	54.00	20.44	Average
3	17824.800	45.02	13.54	58.56	74.00	15.44	Peak
4	17824.800	32.56	13.54	46.10	54.00	7.90	Average

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: horizontal
Note: 2EDR High Channel 2480MHz



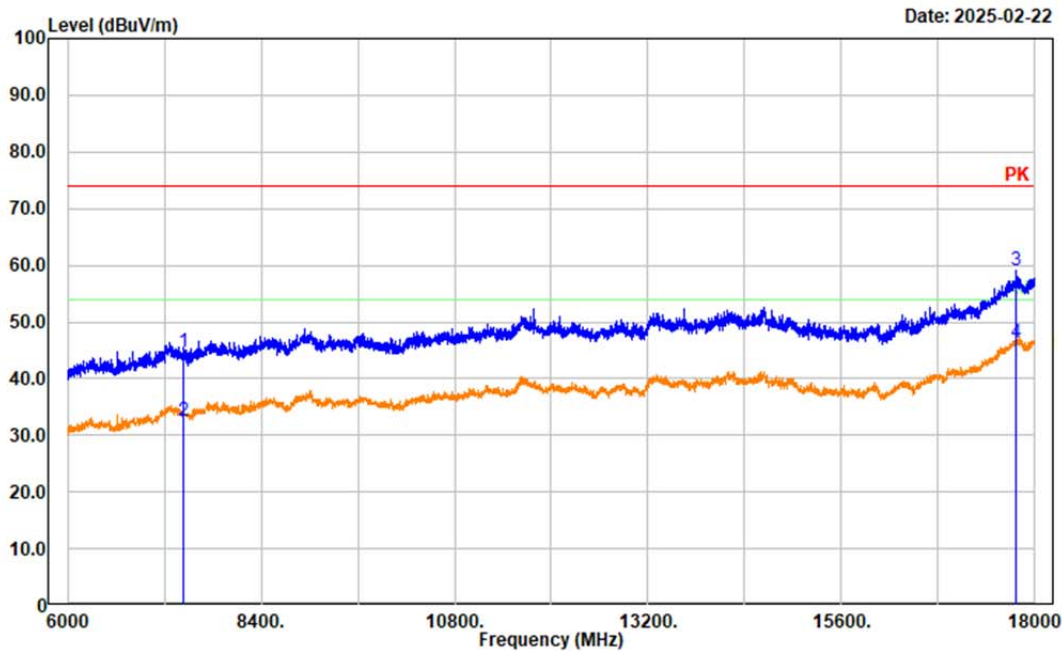
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	46.32	-5.33	40.99	74.00	33.01	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: vertical
Note: 2EDR High Channel 2480MHz



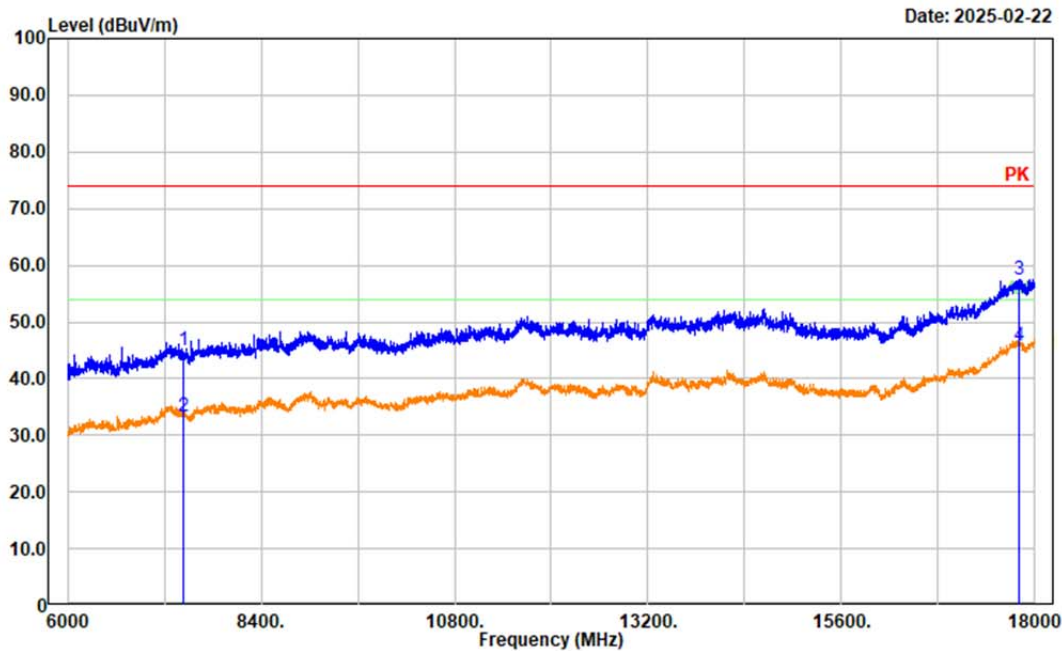
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	46.58	-5.33	41.25	74.00	32.75	Peak

Project No.: 2503P42192E-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: 2EDR High Channel 2480MHz



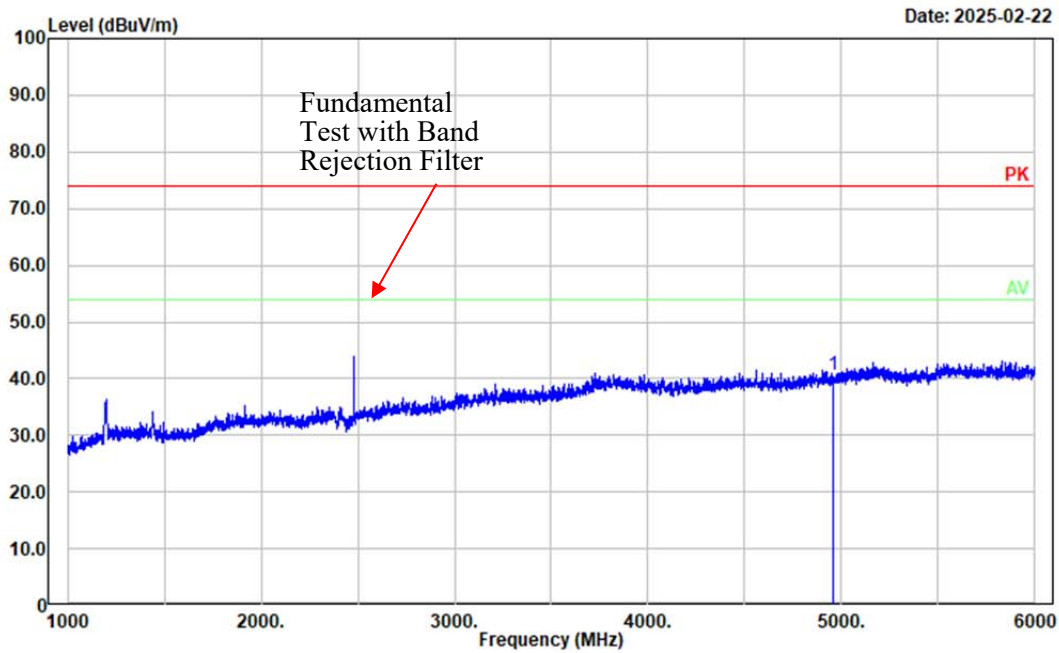
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	45.96	-1.21	44.75	74.00	29.25	Peak
2	7440.000	33.62	-1.21	32.41	54.00	21.59	Average
3	17762.400	45.66	13.37	59.03	74.00	14.97	Peak
4	17762.400	33.00	13.37	46.37	54.00	7.63	Average

Project No.: 2503P42192E-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: 2EDR High Channel 2480MHz



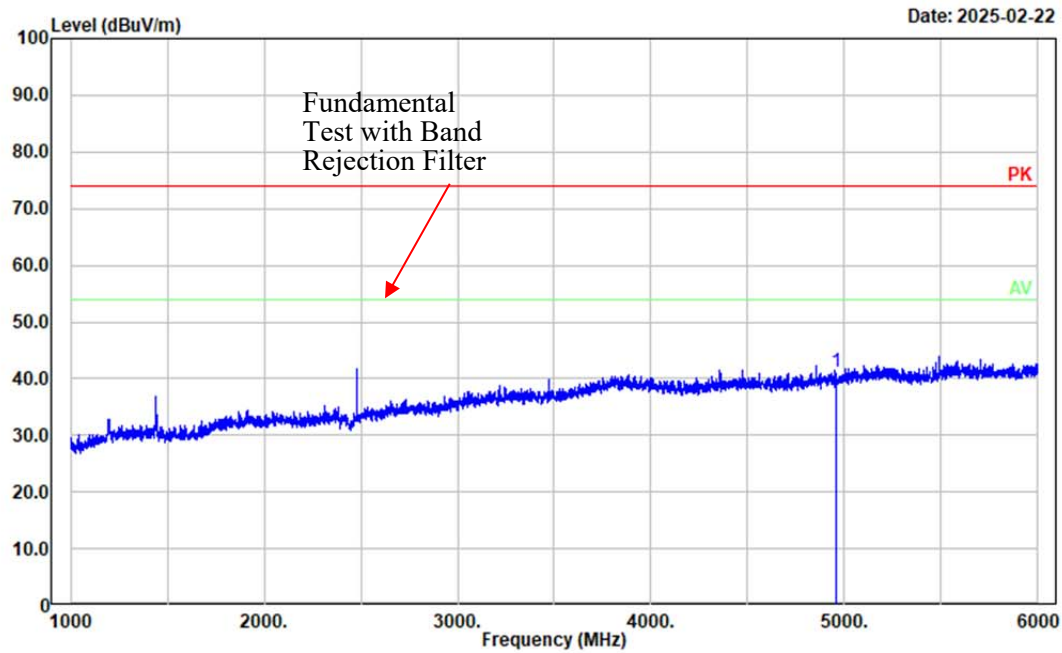
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	46.08	-1.21	44.87	74.00	29.13	Peak
2	7440.000	34.47	-1.21	33.26	54.00	20.74	Average
3	17798.400	43.98	13.55	57.53	74.00	16.47	Peak
4	17798.400	32.23	13.55	45.78	54.00	8.22	Average

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: horizontal
Note: 3EDR High Channel 2480MHz



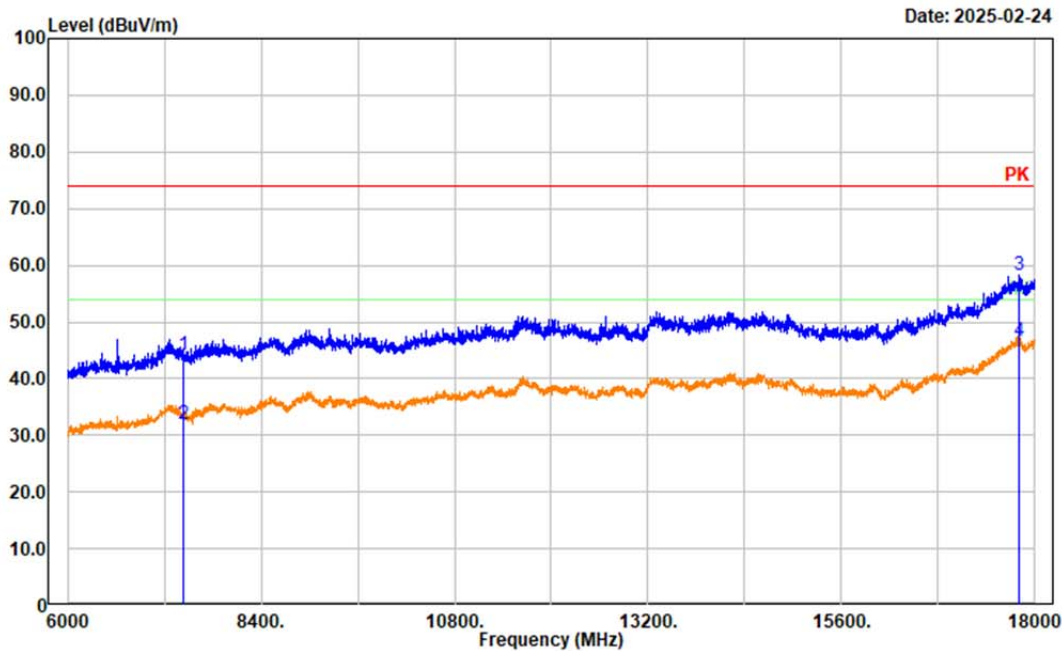
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	46.03	-5.33	40.70	74.00	33.30	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: vertical
Note: 3EDR High Channel 2480MHz



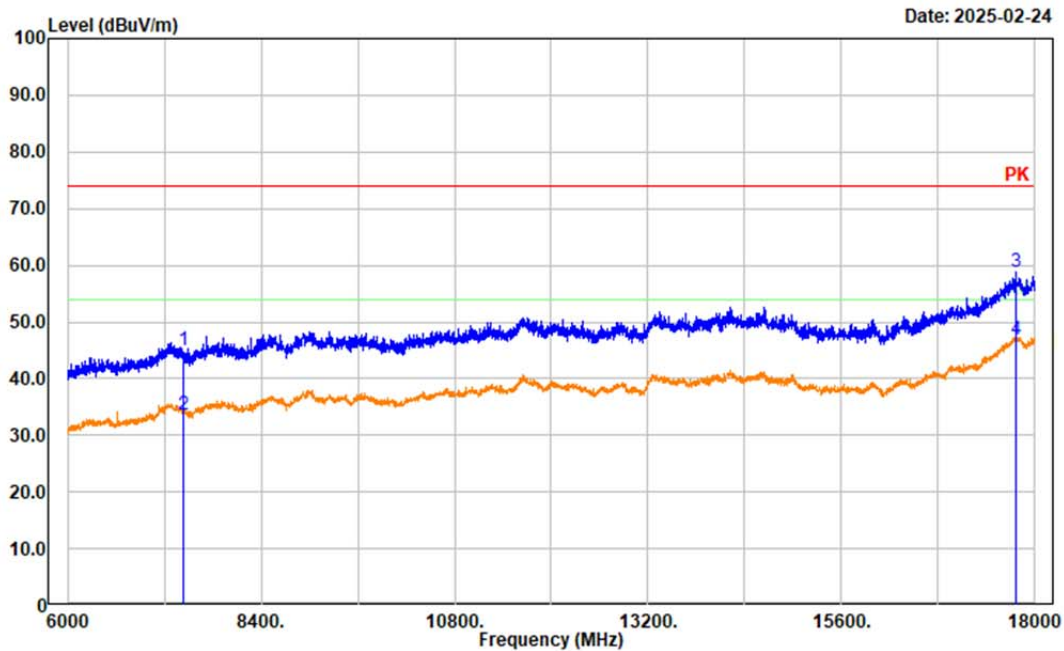
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	4960.000	46.52	-5.33	41.19	74.00	32.81	Peak

Project No.: 2503P42192E-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: 3EDR High Channel 2480MHz



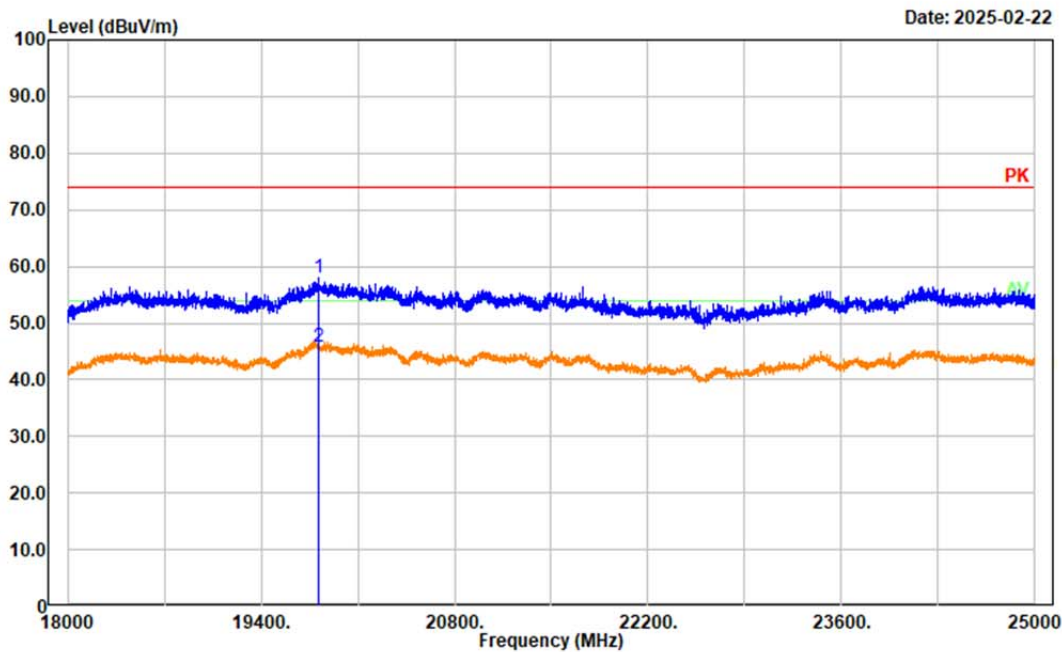
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	45.35	-1.21	44.14	74.00	29.86	Peak
2	7440.000	33.21	-1.21	32.00	54.00	22.00	Average
3	17805.600	44.74	13.55	58.29	74.00	15.71	Peak
4	17805.600	33.03	13.55	46.58	54.00	7.42	Average

Project No.: 2503P42192E-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: 3EDR High Channel 2480MHz



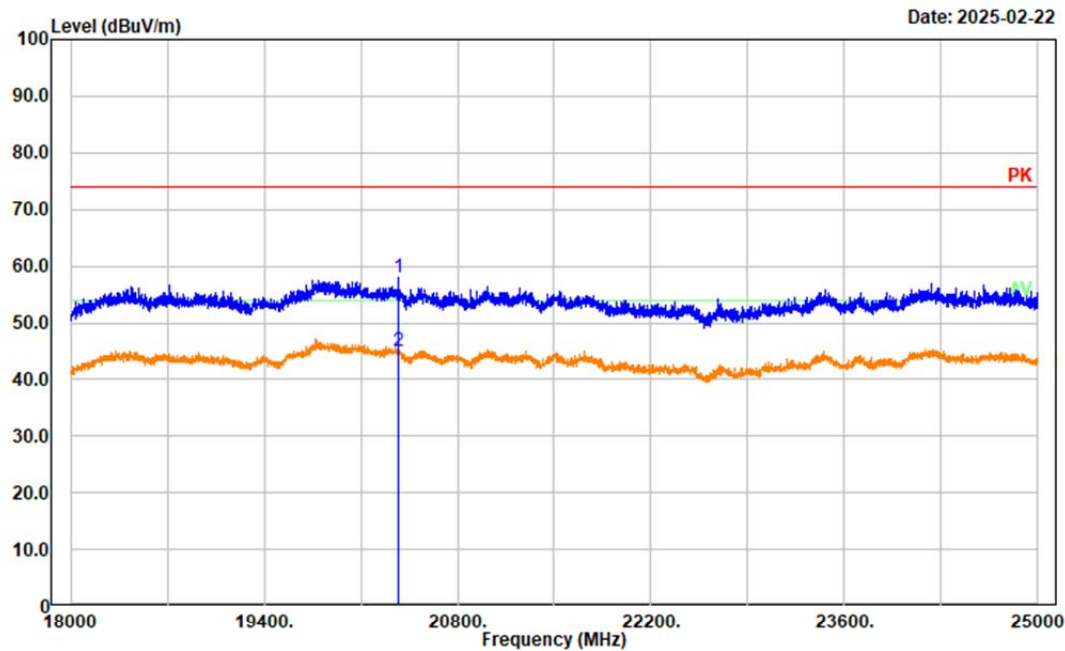
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	7440.000	46.17	-1.21	44.96	74.00	29.04	Peak
2	7440.000	34.87	-1.21	33.66	54.00	20.34	Average
3	17767.200	45.46	13.39	58.85	74.00	15.15	Peak
4	17767.200	33.48	13.39	46.87	54.00	7.13	Average

Project No.: 2503P42192E-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: BDR Low Channel 2402MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	19814.400	49.99	7.95	57.94	74.00	16.06	Peak
2	19814.400	37.74	7.95	45.69	54.00	8.31	Average

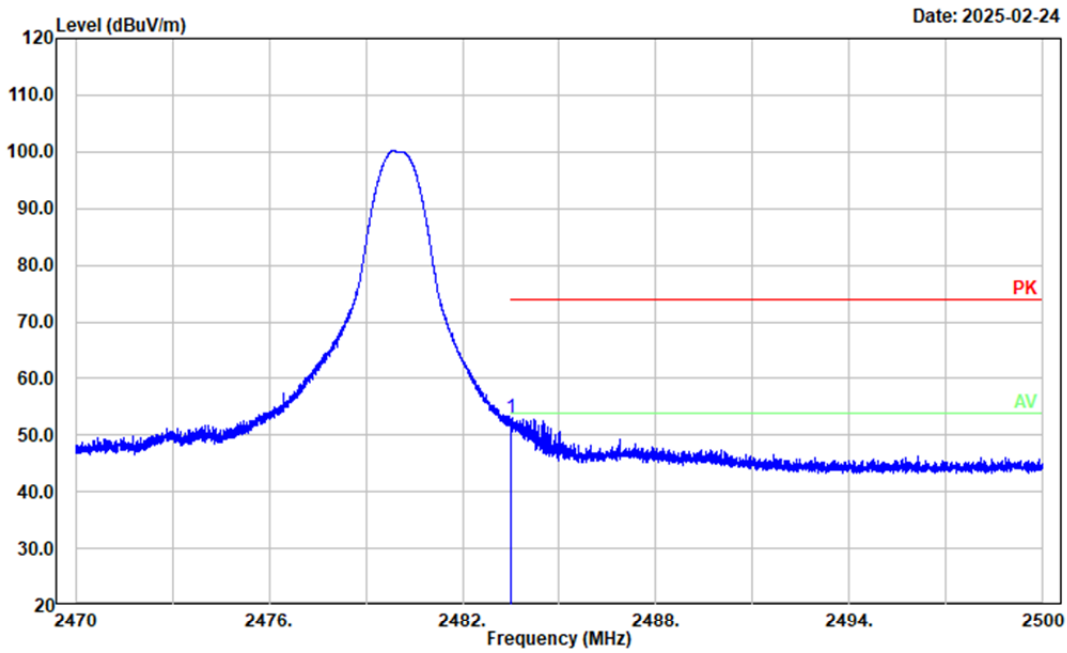
Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec AV trace RBW:1MHz; VBW:5kHz; SWT:auto
Polarization: vertical
Note: BDR Low Channel 2402MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	20368.800	52.03	5.89	57.92	74.00	16.08	Peak
2	20368.800	39.21	5.89	45.10	54.00	8.90	Average

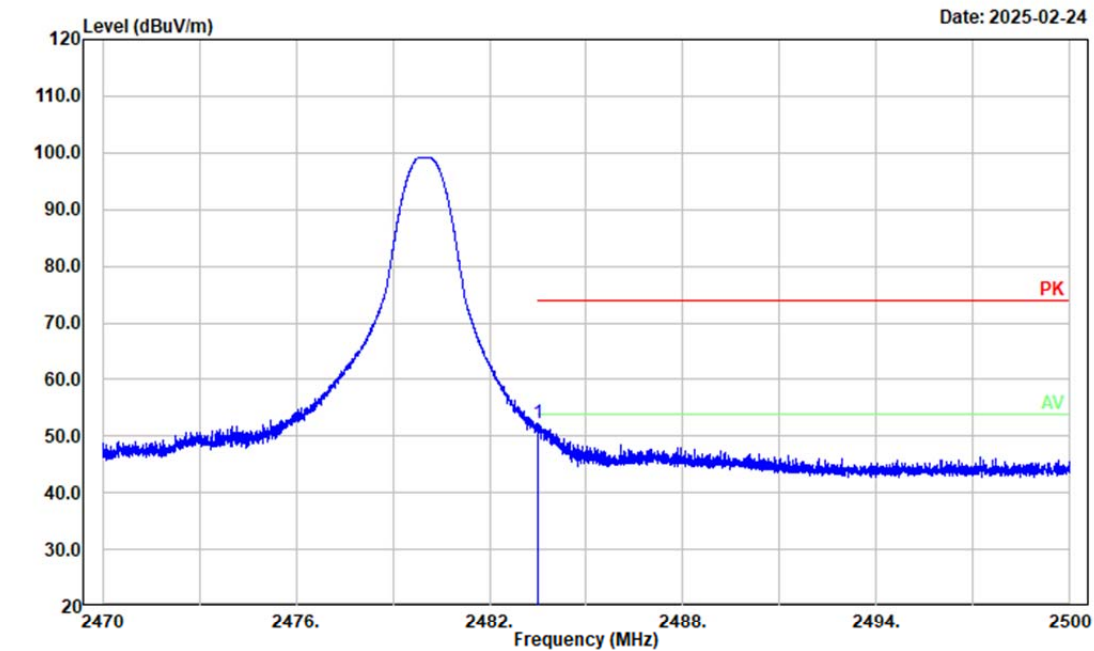
Band edge test plots

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: BDR High Channel 2480MHz



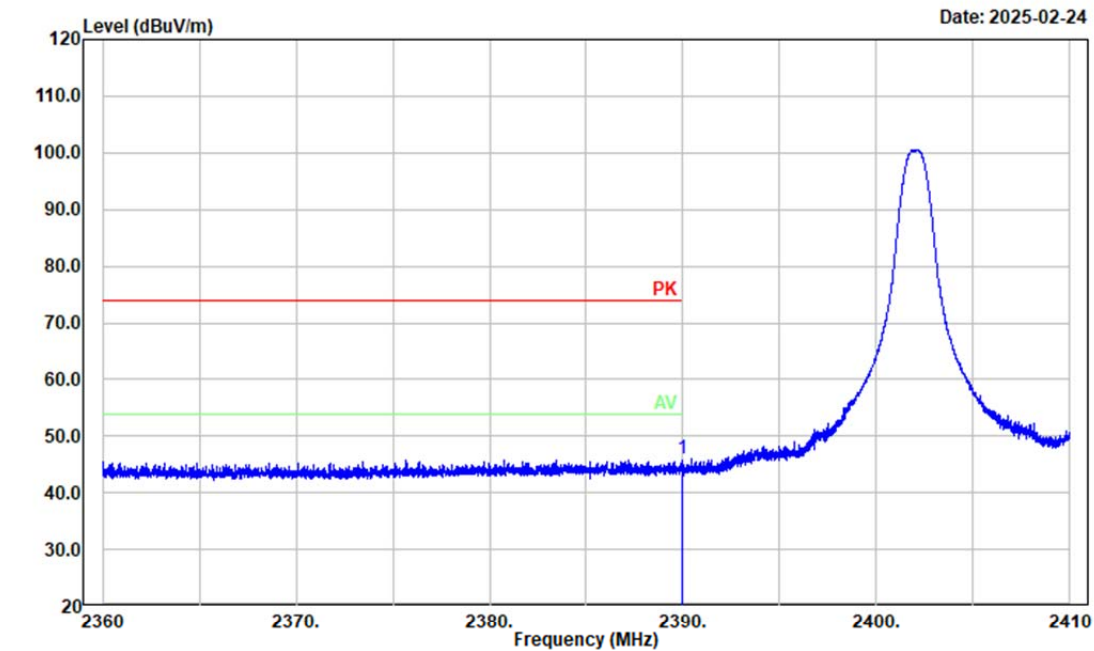
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	63.53	-10.40	53.13	74.00	20.87	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: BDR High Channel 2480MHz



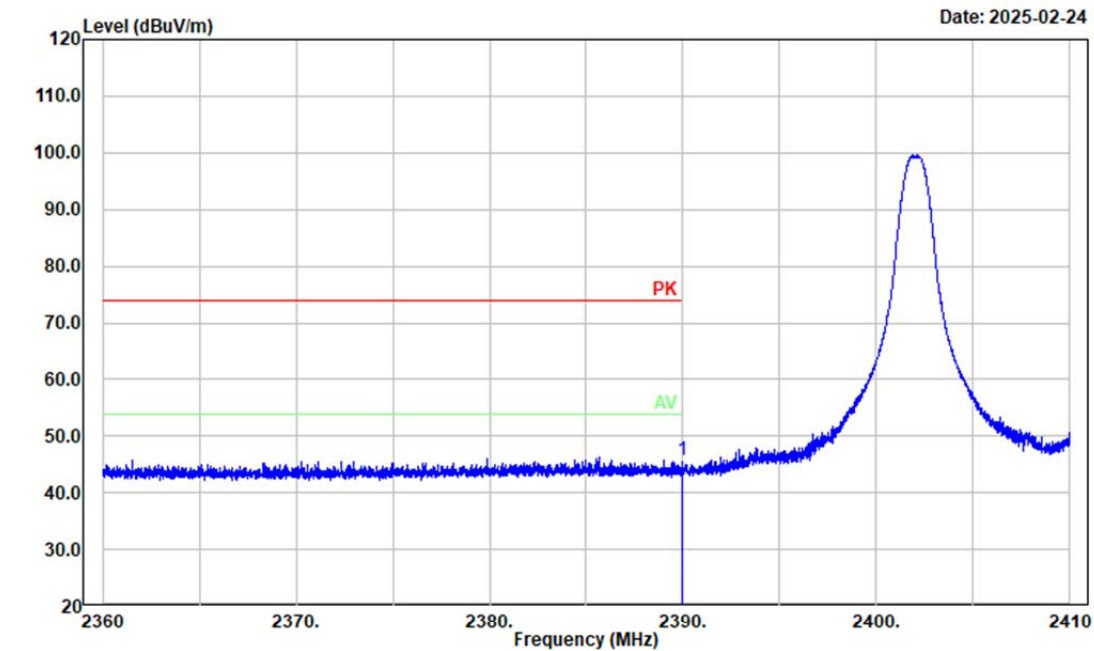
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	62.66	-10.40	52.26	74.00	21.74	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: BDR Low Channel 2402MHz



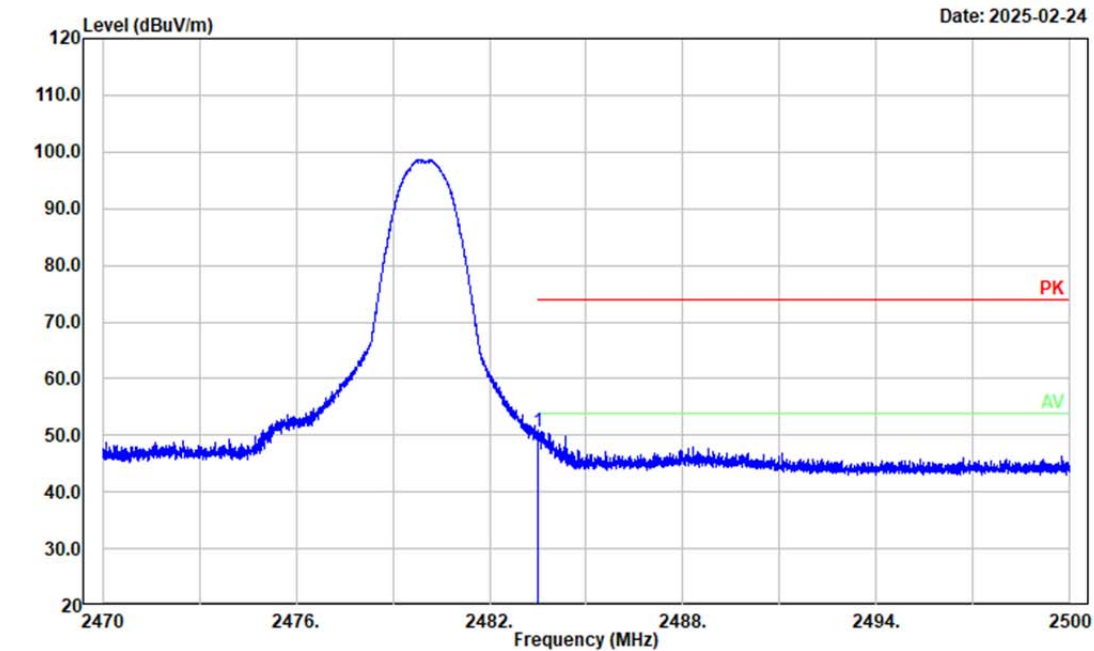
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	56.38	-10.30	46.08	74.00	27.92	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: BDR Low Channel 2402MHz



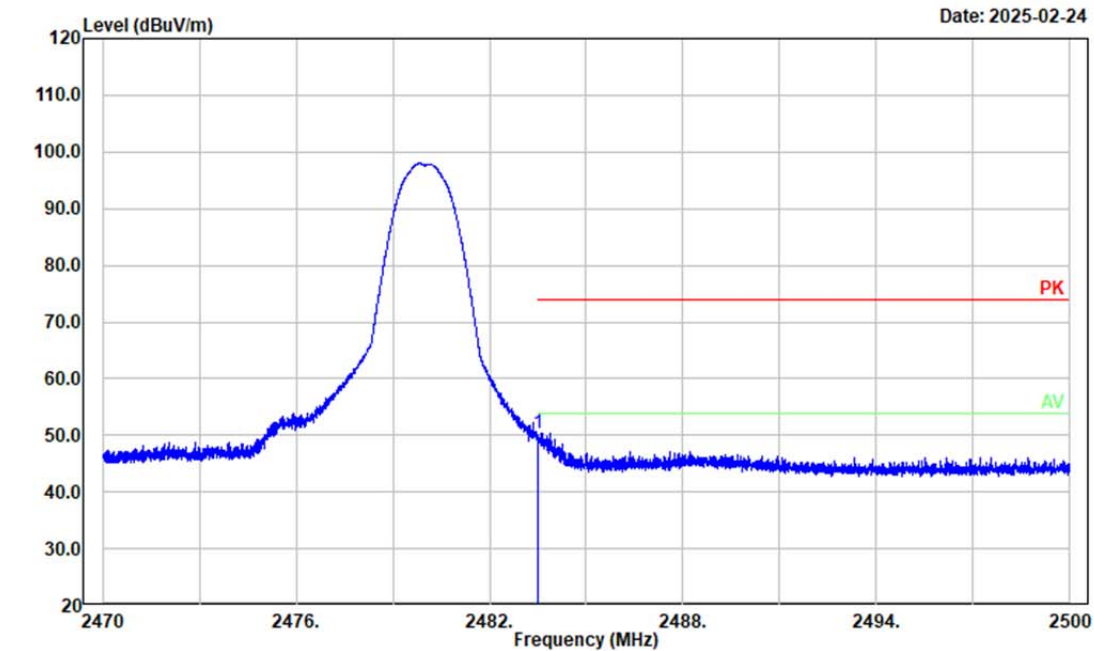
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	55.96	-10.30	45.66	74.00	28.34	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: 2EDR High Channel 2480MHz



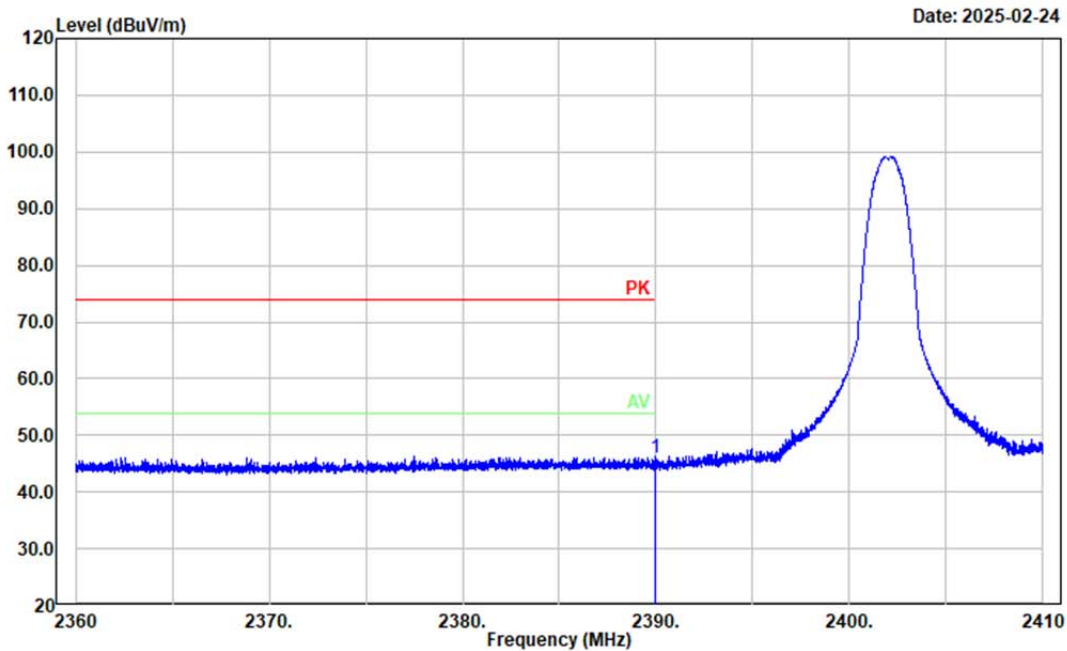
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	60.98	-10.40	50.58	74.00	23.42	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: 2EDR High Channel 2480MHz



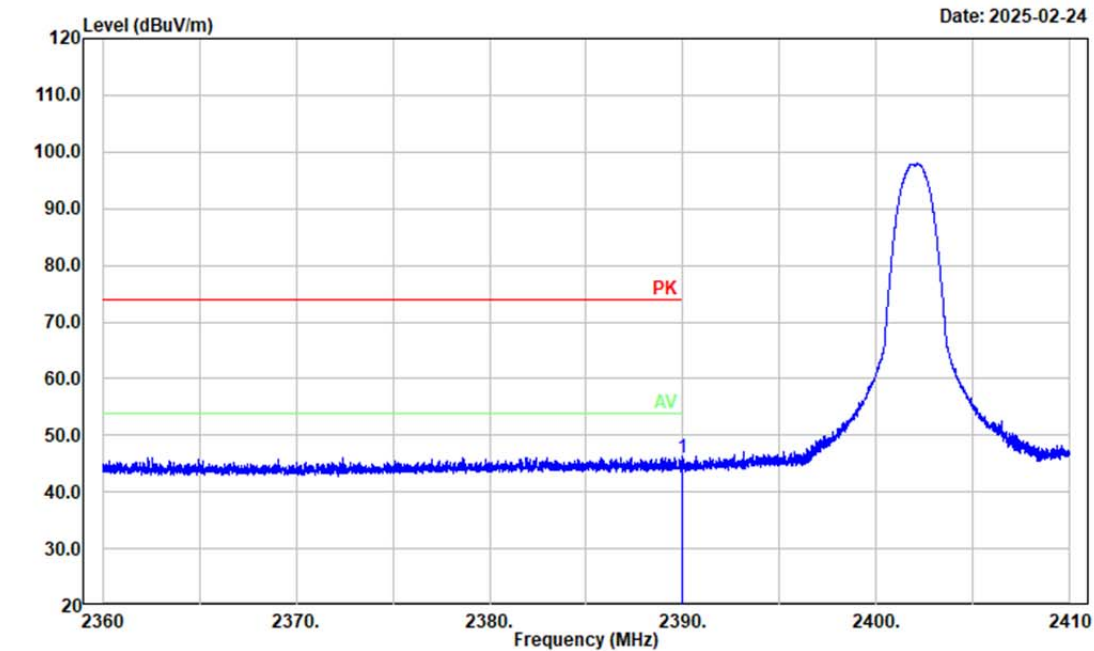
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	60.82	-10.40	50.42	74.00	23.58	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: 2EDR Low Channel 2402MHz



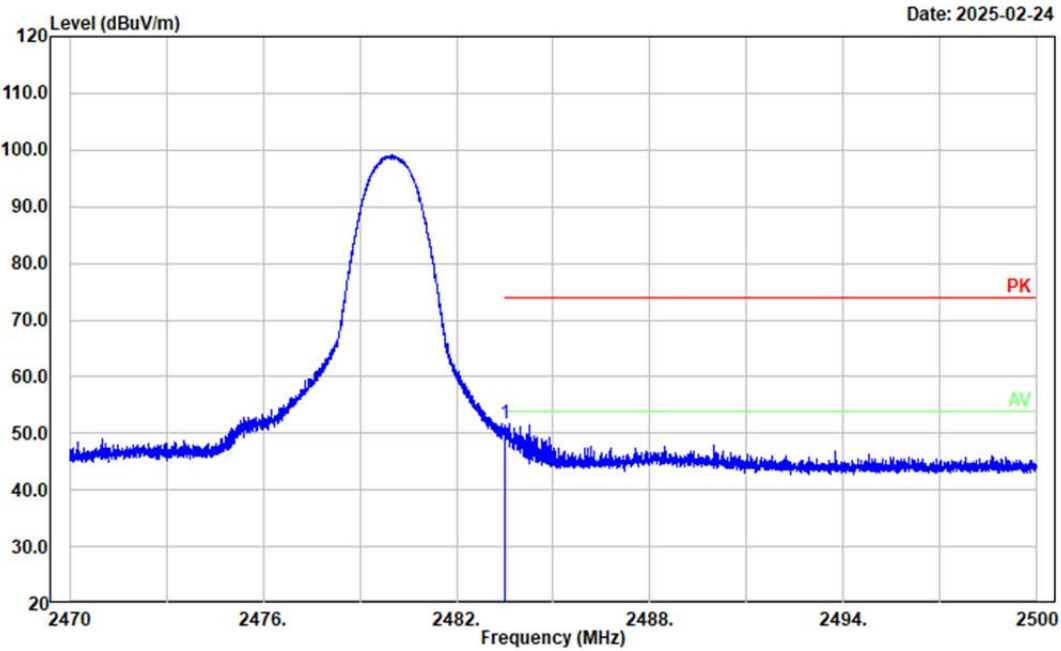
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	56.43	-10.30	46.13	74.00	27.87	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: 2EDR Low Channel 2402MHz



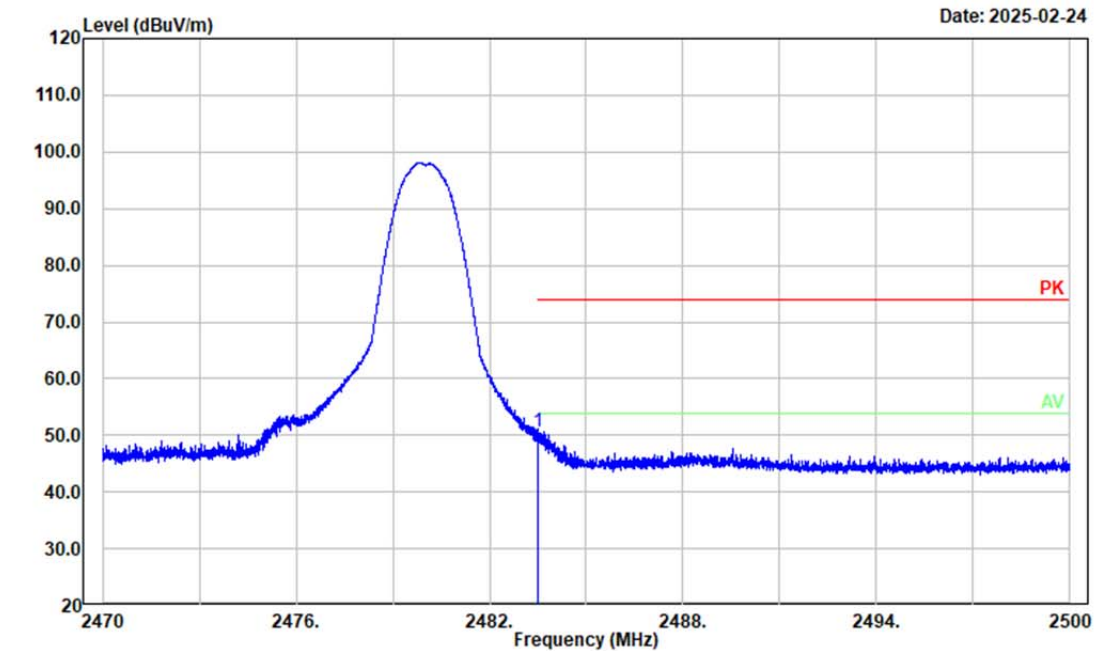
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	56.43	-10.30	46.13	74.00	27.87	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: 3EDR High Channel 2480MHz



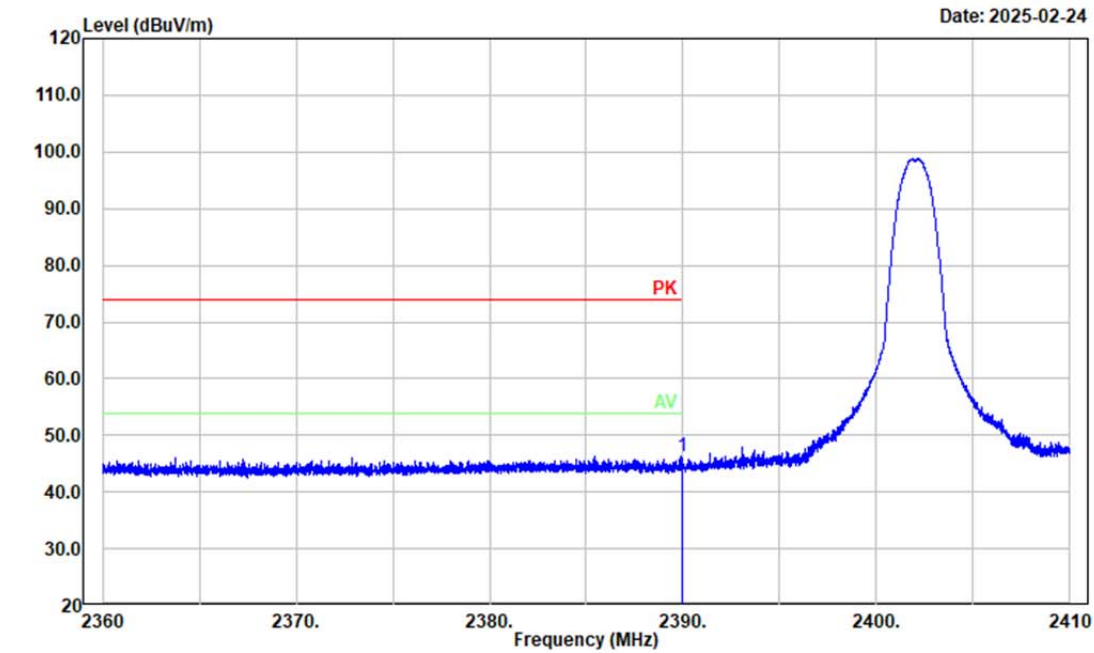
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	62.15	-10.40	51.75	74.00	22.25	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: 3EDR High Channel 2480MHz



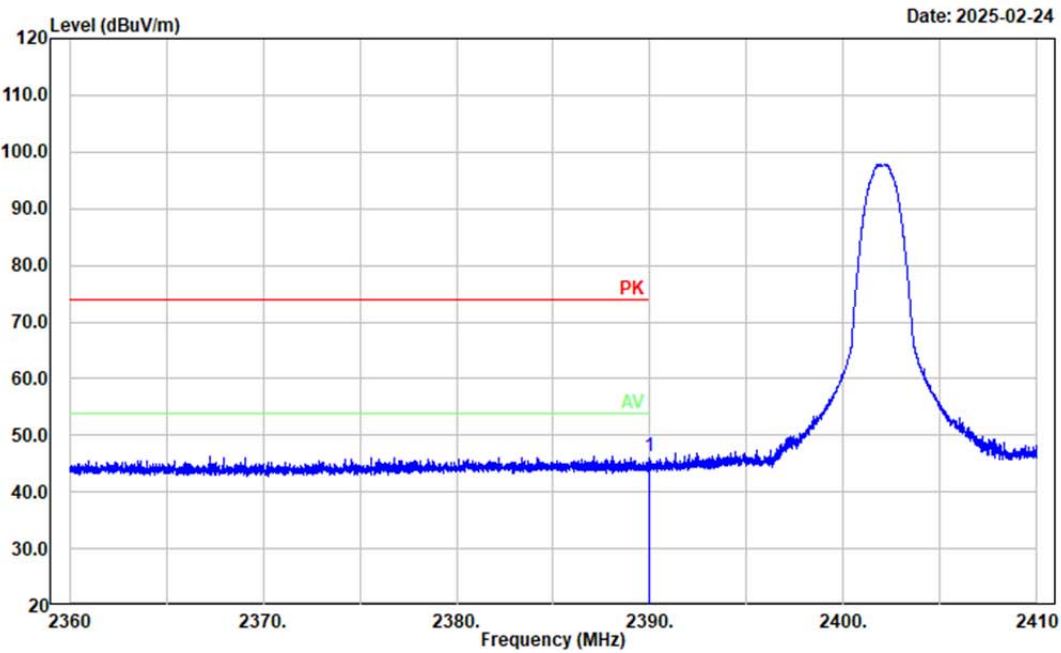
No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2483.500	61.08	-10.40	50.68	74.00	23.32	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Horizontal
Note: 3EDR Low Channel 2402MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	56.46	-10.30	46.16	74.00	27.84	Peak

Project No.: 2503P42192E-RF
Tester: Mack Huang
Condition: PK trace RBW:1MHz; VBW:3MHz; SWT:0.3sec
Polarization: Vertical
Note: 3EDR Low Channel 2402MHz



No.	Frequency (MHz)	Reading (dBμV)	Factor (dB/m)	Result (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Remark
1	2390.000	56.48	-10.30	46.18	74.00	27.82	Peak

4.3 RF Conducted Data

Please refer to Annex " 2503P42192E-RF-00B_Appendix A" for detail test data.

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

According to §15.247(i) and §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$

$[\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm according to 5) in section 4.1 is applied to determine SAR test exclusion.

5.2 Measurement Result

Frequency (MHz)	Conducted Output Power Including Tolerance		Distance (mm)	Calculated value	Threshold (1-g)	SAR Test Exclusion
	(dBm)	(mW)				
2402-2480	5	3.16	5	1	3	Yes

Note: The Maximum Conducted Power including Tune-up Tolerance was declared by manufacturer.

Result: Compliant. The stand-alone SAR evaluation is not necessary.

6. EUT PHOTOGRAPHS

Please refer to the attachment 2503P42192E-RF-EXP EUT EXTERNAL PHOTOGRAPHS and 2503P42192E-RF-INP EUT INTERNAL PHOTOGRAPHS

7. TEST SETUP PHOTOGRAPHS

Please refer to the attachment 2503P42192E-RF-00B-TSP TEST SETUP PHOTOGRAPHS.

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