Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	RAS-MT7920
Equipment	:	2TX 11ax (WiFi6) BW80 + BT/BLE Combo Card
Brand Name	:	MediaTek
Model Name	:	MT7920
Applicant	:	MediaTek Inc. No.1, Dusing 1st Rd., Hsinchu Science Park,Hsinchu City 30078, Taiwan
Manufacturer	:	MediaTek Inc. No.1, Dusing 1st Rd., Hsinchu Science Park,Hsinchu City 30078, Taiwan
Standard	:	47 CFR FCC Part 15.247

The product was received on Sep. 11, 2025, and testing was started from Sep. 17, 2025 and completed on Jan. 29, 2026. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2020 and shown compliance with the applicable technical standards.

The test results in this variant report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. Hsinchu Laboratory, the test report shall not be reproduced except in full.

SPORTON INTERNATIONAL INC. TEST REPORT APPOVED

Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR431211-25AA	01	Initial issue of report	Apr. 14, 2026

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-
Note: Reference to Sporton Project No.: 431211-19.				

Conformity Assessment Condition:
1. The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacturer who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account. 2. The measurement uncertainty please refer to each test result in the chapter "Measurement Uncertainty".
Disclaimer:
The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Sam Chen
Report Producer: Sophia Shiung

1 General Description

1.1 Information

1.1.1 RF General Information

Frequency Range (MHz)	IEEE Std. 802.11	Ch. Frequency (MHz)	Channel Number
2400-2483.5	b, g, n (HT20), VHT20, ax (HEW20)	2412-2472	1-13 [13]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2462	3-11 [9]

Band	Mode	BWch	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11n HT20	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

Note:
- 11b mode uses a combination of DSSS-DBPSK, DQPSK, CCK modulation.
- 11g, HT20 and HT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM modulation.
- VHT20 and VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- HEW20 and HEW40 use a combination of OFDMA-BPSK, QPSK, 16QAM, 64QAM, 256QAM, 1024QAM modulation.
- BWch is the nominal channel bandwidth.

1.1.2 Antenna Information

Ant.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth					
1	1/2	1/2	1	Walsin	RFMTA340718EMLB302	PIFA	MHF4L	Note1
2	1/2	1/2	1	Cortec	AN2450-4902BRS	Dipole	Reversed-SMA	
3	1/2	1/2	1	Changshu HongBo Telecommunication	260-25095_20240201	Monopole	MHF4L	

Note 1:

Ant.	Port			Antenna Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
1	1/2	1/2	1	3.18	4.92	3.18
3	1/2	1/2	1	3.11	4.91	3.11

Ant.	Port			Antenna Gain (dBi)			Cable Loss (dBm)			Net Gain (dBi)		
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz	Bluetooth	WLAN 2.4GHz	WLAN 5GHz	Bluetooth
2	1/2	1/2	1	2.92	4.67	2.92	0.47	0.94	0.47	2.45	3.73	2.45

Note 2: The above information was declared by manufacturer.
Note 3: Directional gain information

Type	Maximum Output Power	Power Spectral Density
Non-BF	Directional gain = Max.gain + array gain. For power measurements on IEEE 802.11 devices Array Gain = 0 dB (i.e., no array gain) for N ANT ≤ 4	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$
BF	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$	$DirectionalGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$

Ex.

Directional Gain (NSS1) formula : $Directiona\ lGain = 10 \cdot \log\left[\frac{\sum_{j=1}^{N_{SS}}\left\{\sum_{k=1}^{N_{ANT}} g_{j,k}\right\}^2}{N_{ANT}}\right]$

NSS1(g1,1) = $10^{G1/20}$; NSS1(g1,2)= $10^{G2/20}$; NSS1(g1,2)= $10^{G3/20}$; NSS1(g1,2)= $10^{G4/20}$

gj,k =$(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2$

DG = 10 log$[(Nss1(g1,1) + Nss1(g1,2) + Nss1(g1,3) + Nss1(g1,4))^2 / N_{ANT}]$ => 10 log$[(10^{G1/20} + 10^{G2/20} + 10^{G3/20} + 10^{G4/20})^2 / N_{ANT}]$

Where;

2.4G G1= 3.18 dBi; G2= 3.18 dBi;
5G UNII-1 G1 = 4.92 dBi; G2 = 4.92 dBi;
5G UNII-2A G1 = 4.92 dBi; G2 = 4.92 dBi;
5G UNII-2C G1 = 4.92 dBi; G2 = 4.92 dBi;
5G UNII-3 G1 = 4.92 dBi; G2 = 4.92 dBi;
5G UNII-4 G1 = 4.92 dBi; G2 = 4.92 dBi;

2.4G DG = 6.19 dBi
5G UNII-1 DG = 7.93 dBi
5G UNII-2A DG = 7.93 dBi
5G UNII-2C DG = 7.93 dBi
5G UNII-3 DG = 7.93 dBi
5G UNII-4 DG = 7.93 dBi

Note 4: **<WLAN 2.4GHz Function>**
For IEEE 802.11b/g/n/VHT/ax (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
<WLAN 5GHz Function>
For IEEE 802.11a/n/ac/ax (2TX/2RX):
Port 1 and Port 2 can be used as transmitting/receiving antenna.
Port 1 and Port 2 could transmit/receive simultaneously.
<Bluetooth Function> (1TX/1RX):
Only Port 1 can be used as transmitting/receiving.

1.1.3 Test Mode of Single RU

Mode		Single RU		
802.11ax HEW20	2TX	26	52	106

1.1.4 Mode Test Duty Cycle

<Single RU>

Mode	DC	DCF(dB)	T(s)	VBW(Hz)_1/T
802.11ax HEW20	0.694	1.59	1.401m	1k

Note:
- DC is Duty Cycle.
- DCF is Duty Cycle Factor.

1.1.5 EUT Operational Condition

EUT Power Type	From host system			
Beamforming Function	☐	With beamforming	☒	Without beamforming
Function	☒	Point-to-multipoint	☐	Point-to-point
Support RU	☒	Full RU	☒	Partial RU
Test Software Version	QATool 0.0.2.104			

Note: The above information was declared by manufacturer.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: FR431211AA.

Below is the table for the change of the product with respect to the original one.

Modifications	Performance Checking
Update the reference standard to “ANSI C63.10-2020” from “ANSI C63.10-2013”.	1. DTS Bandwidth 2. Maximum Conducted Output Power 3. Power Spectral Density 4. Emissions in Non-restricted Frequency Bands 5. Emissions in Restricted Frequency Bands > 1GHz (After evaluating, only the worst case “Single RU: 802.11ax HEW20 RU 52, RU 106 2472 MHz” was retested.)

1.2 Applicable Standards

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

- 47 CFR FCC Part 15.247
- ANSI C63.10-2020

The following reference test guidance is not within the scope of accreditation of TAF.

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D01 v02r01

1.3 Testing Location Information

Testing Location Information	
Test Lab.：Sporton International Inc. Hsinchu Laboratory	
Hsinchu (TAF: 3787)	ADD: No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.) TEL: 886-3-656-9065 FAX: 886-3-656-9085 Test site Designation No. TW3787 with FCC. Conformity Assessment Body Identifier (CABID) TW3787 with ISED.

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH03-CB	Kevin Huang	24.1~25.2 / 57~63	Sep. 19, 2025~ Oct. 09, 2025
Radiated	03CH02-CB	George Fan	21.5~23.3 / 58~61	Sep. 17, 2025
	03CH05-CB		21.5~22.9 / 57~60	Jan. 28, 2026~ Jan. 29, 2026

Note: The tested sample for Radiated test in 2026 was received on Jan. 23, 2026.

1.4 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2)

Test Items	Uncertainty	Remark
Radiated Emission (1GHz ~ 18GHz)	4.3 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.2 dB	Confidence levels of 95%
Conducted Emission	2.5 dB	Confidence levels of 95%
Output Power Measurement	1.3 dB	Confidence levels of 95%
Power Density Measurement	2.0 dB	Confidence levels of 95%
Bandwidth Measurement	1.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

<Single RU>

Mode
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX
2472MHz
802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX
2472MHz

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains
1	EUT + antenna 1_Single RU (802.11ax HEW20 RU 52, RU 106 2472MHz only)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode > 1GHz	CTX
	According to the original test report, the worst cases were found as below, so the measurement will follow these same test configurations.
1	EUT in Y axis + antenna 1_Single RU (802.11ax HEW20 RU 52, RU 106 2472MHz only)
2	EUT in X axis + antenna 2_Single RU (802.11ax HEW20 RU 52, RU 106 2472MHz only)
3	EUT in X axis + antenna 3_Single RU (802.11ax HEW20 RU 52, RU 106 2472MHz only)

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 5GHz + Bluetooth
Refer to Sporton Test Report No.: FA431211-25 for Co-location RF Exposure Evaluation.	

2.3 EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

2.4 Accessories

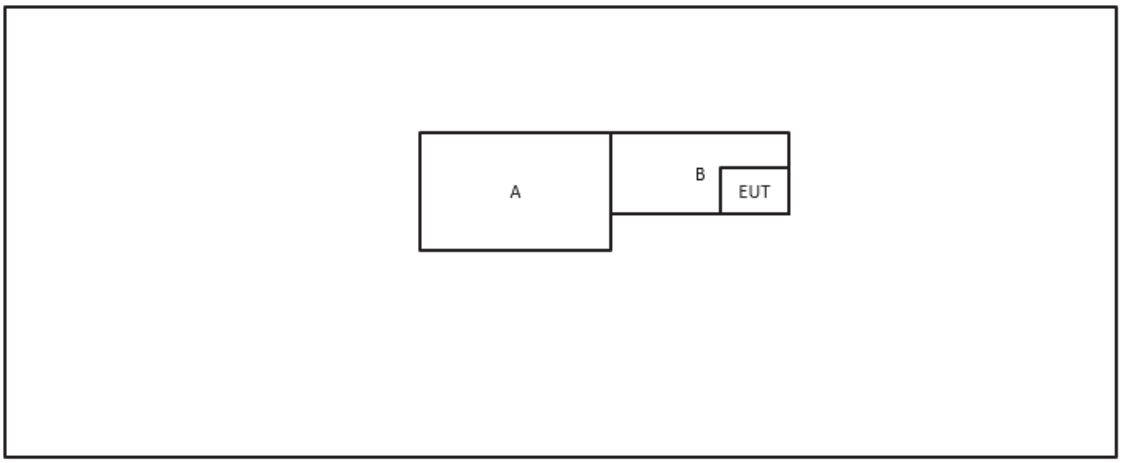
N/A

2.5 Support Equipment

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A
B	Test Fixture	MediaTek	MTK1849	N/A

2.6 Test Setup Diagram

Test Setup Diagram - Radiated Test > 1GHz



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
▪ 6 dB bandwidth ≥ 500 kHz.

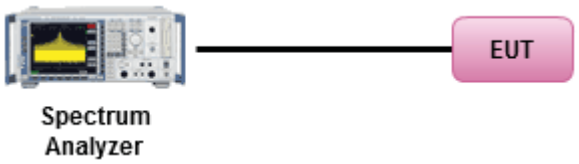
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedures

Test Method	
▪ For the emission bandwidth shall be measured using one of the options below:	
	☒ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.1 Option 1 for 6 dB bandwidth measurement.
	☐ Refer as FCC KDB 558074, clause 8.2 & C63.10 clause 11.8.2 Option 2 for 6 dB bandwidth measurement.
	☐ Refer as ANSI C63.10, clause 6.9.1 for occupied bandwidth testing.

3.1.4 Test Setup

Emission Bandwidth


3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	▪ If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	▪ Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)$ dBm
	▪ Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	▪ Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 – (G_{TX} – 6)/3 + 8$dB dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, **G_{TX}** = the maximum transmitting antenna directional gain in dBi.	

3.2.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method	
▪ Maximum Peak Conducted Output Power	
	☐ Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
	☐ Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
▪ Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
	☐ Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
	☐ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
	☒ Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).

▪ For conducted measurement.	
	▪ If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	▪ If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.2.4 Test Setup

Maximum Conducted Output Power (Power Meter)


3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

Power Spectral Density Limit
▪ Power Spectral Density (PSD) ≤ 8 dBm/3kHz

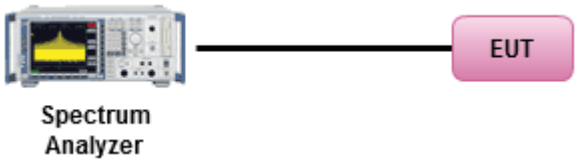
3.3.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.3.3 Test Procedures

Test Method		
▪ Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).		
	☒ Refer as FCC KDB 558074, clause 8.4 & C63.10 clause 11.10 Method Max. PSD.	
▪ For conducted measurement.		
	▪ If The EUT supports multiple transmit chains using options given below:	
		☒ Option 1: Measure and sum the spectra across the outputs. Refer as FCC KDB 662911, In-band power spectral density (PSD). Sample all transmit ports simultaneously using a spectrum analyzer for each transmit port. Where the trace bin-by-bin of each transmit port summing can be performed. (i.e., in the first spectral bin of output 1 is summed with that in the first spectral bin of output 2 and that from the first spectral bin of output 3, and so on up to the NTX output to obtain the value for the first frequency bin of the summed spectrum.). Add up the amplitude (power) values for the different transmit chains and use this as the new data trace.
		☐ Option 2: Measure and sum spectral maxima across the outputs. With this technique, spectra are measured at each output of the device at the required resolution bandwidth. The maximum value (peak) of each spectrum is determined. These maximum values are then summed mathematically in linear power units across the outputs. These operations shall be performed separately over frequency spans that have different out-of-band or spurious emission limits,
		☐ Option 3: Measure and add 10 log(N) dB, where N is the number of transmit chains. Refer as FCC KDB 662911, In-band power spectral density (PSD). Performed at each transmit chains and each transmit chains shall be compared with the limit have been reduced with 10 log(N). Or each transmit chains shall be add 10 log(N) to compared with the limit.

3.3.4 Test Setup

Power Spectral Density


3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	**Limit (dBc)**
Peak output power procedure	20
Average output power procedure	30

Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level.

Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.

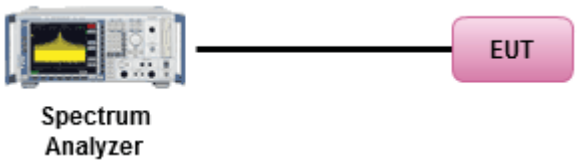
3.4.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.4.3 Test Procedures

Test Method
▪ Refer as FCC KDB 558074, clause 8.5 for unwanted emissions into non-restricted bands.

3.4.4 Test Setup

Emissions in Non-restricted Frequency Bands


3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

Restricted Band Emissions Limit			
Frequency Range (MHz)	**Field Strength (uV/m)**	**Field Strength (dBuV/m)**	**Measure Distance (m)**
0.009~0.490	2400/F(kHz)	48.5 - 13.8	300
0.490~1.705	24000/F(kHz)	33.8 - 23	30
1.705~30.0	30	29	30
30~88	100	40	3
88~216	150	43.5	3
216~960	200	46	3
Above 960	500	54	3

Note 1: Test distance for frequencies at or above 30 MHz, measurements may be performed at a distance other than the limit distance provided they are not performed in the near field and the emissions to be measured can be detected by the measurement equipment. When performing measurements at a distance other than that specified, the results shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade (inverse of linear distance for field-strength measurements, inverse of linear distance-squared for power-density measurements).

Note 2: Test distance for frequencies at below 30 MHz, measurements may be performed at a distance closer than the EUT limit distance; however, an attempt should be made to avoid making measurements in the near field. When performing measurements below 30 MHz at a closer distance than the limit distance, the results shall be extrapolated to the specified distance by either making measurements at a minimum of two or more distances on at least one radial to determine the proper extrapolation factor or by using the square of an inverse linear distance extrapolation factor (40 dB/decade). The test report shall specify the extrapolation method used to determine compliance of the EUT.

Note 3: Using the distance of 1m during the test for above 18 GHz, and the test value to correct for the distance factor at 3m.

3.5.2 Measuring Instruments

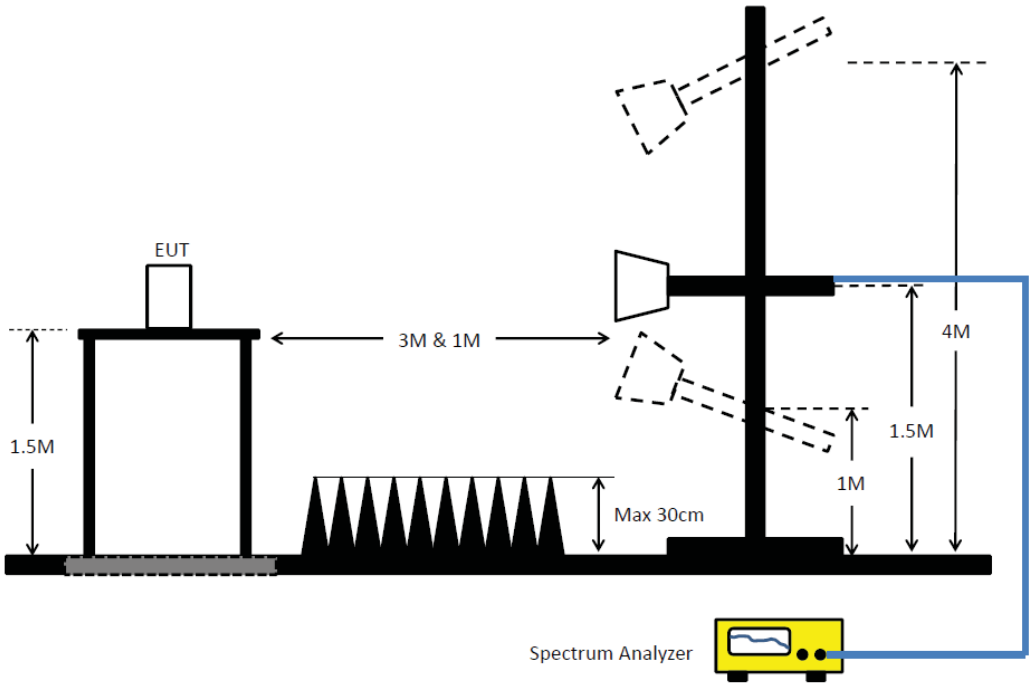
Refer a test equipment and calibration data table in this test report.

3.5.3 Test Procedures

Test Method
▪ The average emission levels shall be measured in [duty cycle ≥ 98 or duty factor].
▪ Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.
▪ For the transmitter unwanted emissions shall be measured using following options below:
▪ Refer as FCC KDB 558074, clause 8.6 for unwanted emissions into restricted bands.
☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.1(trace averaging for duty cycle ≥98%).
☐ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.2(trace averaging + duty factor).
☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.5.3(Reduced VBW≥1/T).
☐ Refer as ANSI C63.10, clause 11.12.2.5.3 (Reduced VBW). VBW ≥ 1/T, where T is pulse time.
☐ Refer as ANSI C63.10, clause 7.5 average value of pulsed emissions.
☒ Refer as FCC KDB 558074, clause 8.6 & C63.10 clause 11.12.2.4 measurement procedure peak limit.
▪ For the transmitter band-edge emissions shall be measured using following options below:
▪ Refer as FCC KDB 558074 clause 8.7 & C63.10 clause 11.13.1, When the performing peak or average radiated measurements, emissions within 2 MHz of the authorized band edge may be measured using the marker-delta method described below.
▪ Refer as FCC KDB 558074, clause 8.7 (ANSI C63.10, clause 6.10.6) for marker-delta method for band-edge measurements.
▪ Refer as FCC KDB 558074, clause 8.7 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels (i.e., 1 MHz).
▪ For conducted unwanted emissions into restricted bands (absolute emission limits). Devices with multiple transmit chains using options given below: (1) Measure and sum the spectra across the outputs or (2) Measure and add 10 log(N) dB
▪ For FCC KDB 662911 The methodology described here may overestimate array gain, thereby resulting in apparent failures to satisfy the out-of-band limits even if the device is actually compliant. In such cases, compliance may be demonstrated by performing radiated tests around the frequencies at which the apparent failures occurred.

3.5.4 Test Setup

Emissions in Restricted Frequency Bands
Above 1GHz
Other Tests



3.5.5 Measurement Results Calculation

The measured Level is calculated using:
Corrected Reading: Antenna factor (AF) + Cable loss (CL) + Read level (Raw) - Preamp factor (PA)(if applicable) = Level.

3.5.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.
All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.
The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F

4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 23, 2025	Mar. 22, 2026	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 15, 2025	Apr. 14, 2026	Radiation (03CH02-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Aug. 22, 2025	Aug. 21, 2026	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH02-CB)
Signal Analyzer	R&S	FSV3044	101536	10kHz ~ 44GHz	Aug. 20, 2025	Aug. 19, 2026	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Jun. 19, 2025	Jun. 18, 2026	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Jun. 19, 2025	Jun. 18, 2026	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Apr. 30, 2025	Apr. 29, 2026	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE-1524 7_DTS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Sep. 27, 2025	Sep. 26, 2026	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 06, 2025	Jun. 05, 2026	Radiation (03CH05-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Oct. 07, 2025	Oct. 06, 2026	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jun. 28, 2025	Jun. 27, 2026	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Apr. 21, 2025	Apr. 20, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Sep. 25, 2025	Sep. 24, 2026	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+6	1GHz ~ 40 GHz	Nov. 13, 2025	Nov. 12, 2026	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE-1524 7_DTS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Radiation (03CH05-CB)
Spectrum analyzer	R&S	FSV40	101028	9kHz~40GHz	Jan. 02, 2025	Jan. 01, 2026	Conducted (TH03-CB)
Power Sensor	Anritsu	MA2411B	1531344	300MHz~40GHz	Aug. 01, 2025	Jul. 31, 2026	Conducted (TH03-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Power Meter	Anritsu	ML2495A	1728002	300MHz~40GHz	Aug. 01, 2025	Jul. 31, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-11	30MHz –18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-12	30MHz –18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable	Woken	RG402	High Cable-13	30MHz –18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-14	1 GHz –18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Oct. 01, 2024	Sep. 30, 2025	Conducted (TH03-CB)
RF Cable-high	Woken	RG402	High Cable-15	1 GHz –18 GHz	Sep. 30, 2025	Sep. 29, 2026	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Oct. 02, 2024	Oct. 01, 2025	Conducted (TH03-CB)
Switch	SPTCB	SP-SWI	SWI-03	1~18GHz	Sep. 20, 2025	Sep. 19, 2026	Conducted (TH03-CB)
Test Software	SPORTON	SENSE-1524 7_DTS	V5.11.27	2.4GHz-2.4835GHz	N.C.R.	N.C.R.	Conducted (TH03-CB)

Note: Calibration Interval of instruments listed above is one year.

NCR means Non-Calibration required.

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	17.1M	18.08M	18M1D1D	15.775M	17.991M

Max-N dB = Maximum 6dB down bandwidth; Max-OBW = Maximum 99% occupied bandwidth;
Min-N dB = Minimum 6dB down bandwidth; Min-OBW = Minimum 99% occupied bandwidth

Result

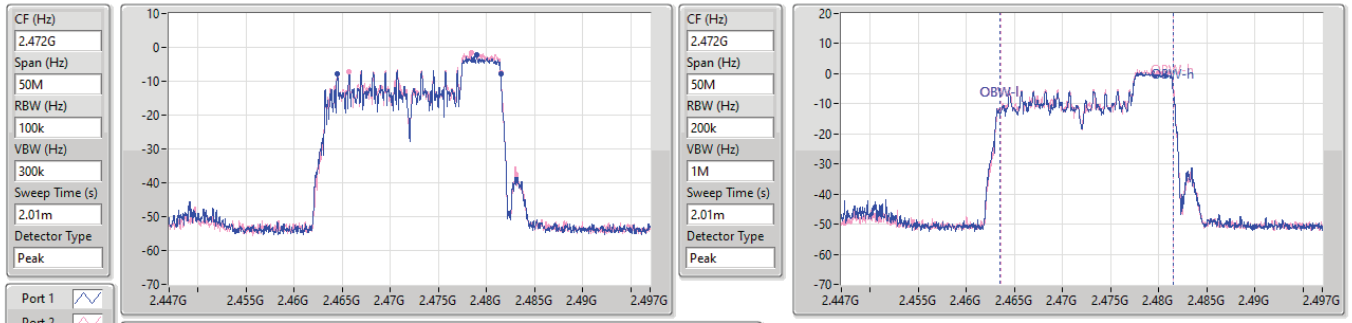
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX	-	-	-	-	-	-
2472MHz	Pass	500k	17.05M	18.071M	15.775M	17.991M
802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX	-	-	-	-	-	-
2472MHz	Pass	500k	17.1M	18.07M	17.1M	18.08M

Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX **EBW**

2472MHz

19/09/2025

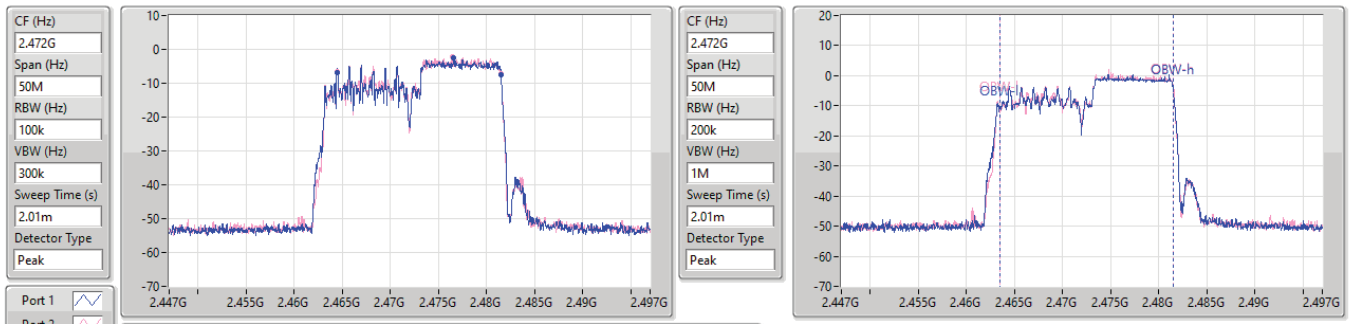


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.05M	2.46445G	2.4815G	18.071M	2.463466G	2.481537G	500k	1
15.775M	2.4657G	2.481475G	17.991M	2.46355G	2.481541G	500k	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX **EBW**

2472MHz

19/09/2025



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
17.1M	2.464425G	2.481525G	18.07M	2.463435G	2.481505G	500k	1
17.1M	2.464425G	2.481525G	18.08M	2.463449G	2.481529G	500k	2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	10.59	0.01146

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX	-	-	-	-	-	-
2472MHz	Pass	3.18	5.23	5.77	8.52	30.00
802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX	-	-	-	-	-	-
2472MHz	Pass	3.18	7.46	7.69	10.59	30.00

DG = Directional Gain; Port X = Port X output power

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-12.09

RBW = 3kHz;

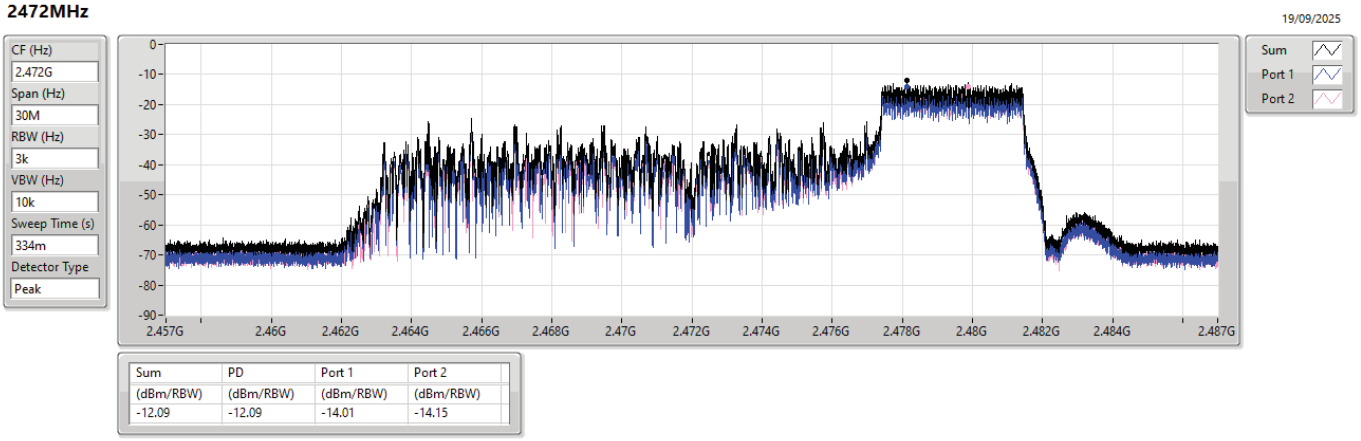
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX	-	-	-	-	-	-
2472MHz	Pass	6.19	-14.01	-14.15	-12.09	7.81
802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX	-	-	-	-	-	-
2472MHz	Pass	6.19	-15.22	-15.66	-12.50	7.81

DG = Directional Gain; RBW = 3kHz;
PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX **PSD**

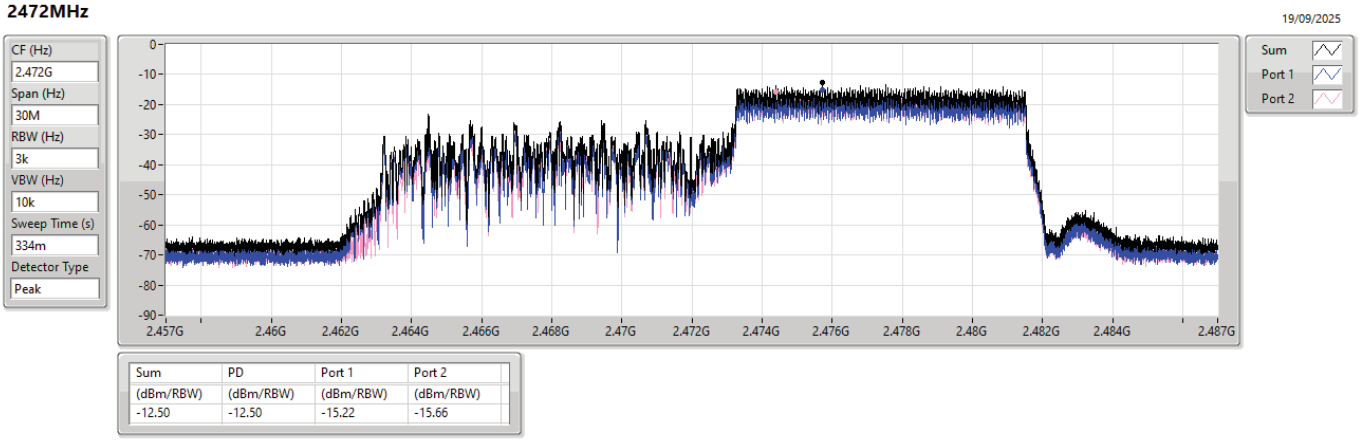
2472MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.09	-12.09	-14.01	-14.15

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX **PSD**

2472MHz



Sum	PD	Port 1	Port 2
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-12.50	-12.50	-15.22	-15.66

Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX	Pass	2.47966G	-2.94	-32.94	31.17M	-51.85	2.39736G	-53.98	2.4G	-54.61	2.51542G	-53.11	21.9432G	-48.16	1

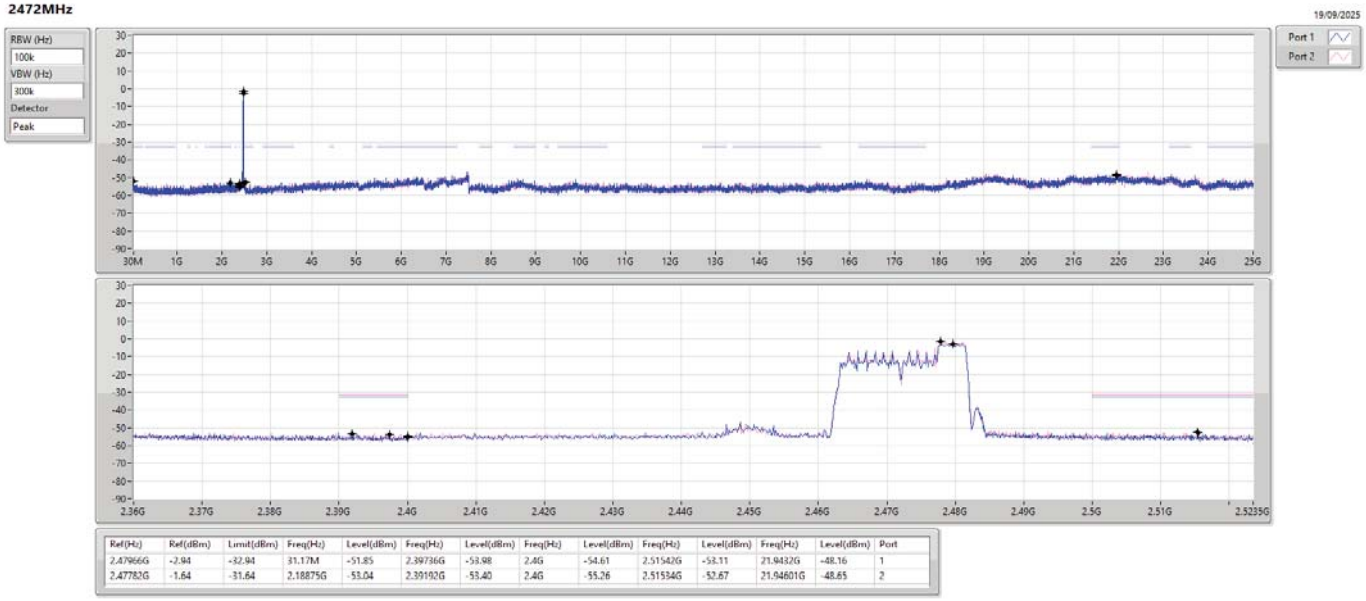
Result

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2472MHz	Pass	2.47966G	-2.94	-32.94	31.17M	-51.85	2.39736G	-53.98	2.4G	-54.61	2.51542G	-53.11	21.9432G	-48.16	1
2472MHz	Pass	2.47782G	-1.64	-31.64	2.18875G	-53.04	2.39192G	-53.40	2.4G	-55.26	2.51534G	-52.67	21.94601G	-48.65	2
802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2472MHz	Pass	2.47665G	-3.26	-33.26	2.17011G	-52.29	2.3988G	-53.88	2.4G	-54.36	2.50046G	-52.31	21.9151G	-48.85	1
2472MHz	Pass	2.47882G	-2.69	-32.69	2.09671G	-52.92	2.39824G	-53.14	2.4G	-54.98	2.51486G	-51.60	21.48805G	-48.68	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

CSENdB

2472MHz



Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47966G	-2.94	-32.94	31.17M	-51.85	2.39736G	-53.98	2.4G	-54.61	2.51542G	-52.11	21.94832G	-48.16	1
2.47782G	-1.64	-31.64	2.18875G	-53.04	2.39192G	-53.40	2.4G	-55.26	2.51534G	-52.67	21.94601G	-48.65	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

CSENdB

2472MHz

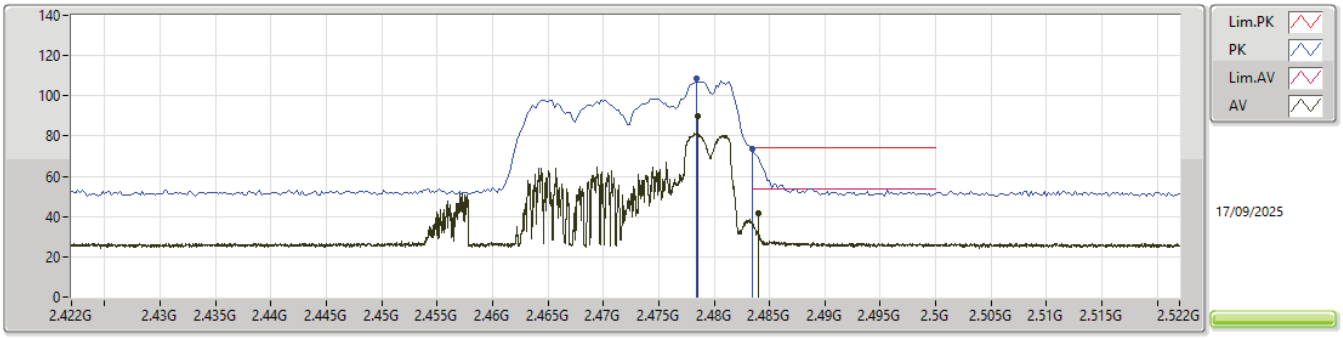
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.47665G	-3.26	-33.26	2.17011G	-52.29	2.3988G	-53.88	2.4G	-54.36	2.50046G	-52.31	21.9151G	-48.85	1
2.47882G	-2.69	-32.69	2.09671G	-52.92	2.39824G	-53.14	2.4G	-54.98	2.51486G	-51.60	21.48805G	-48.68	2

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	PK	2.4835G	73.58	74.00	-0.42	3	Vertical	24	1.25	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

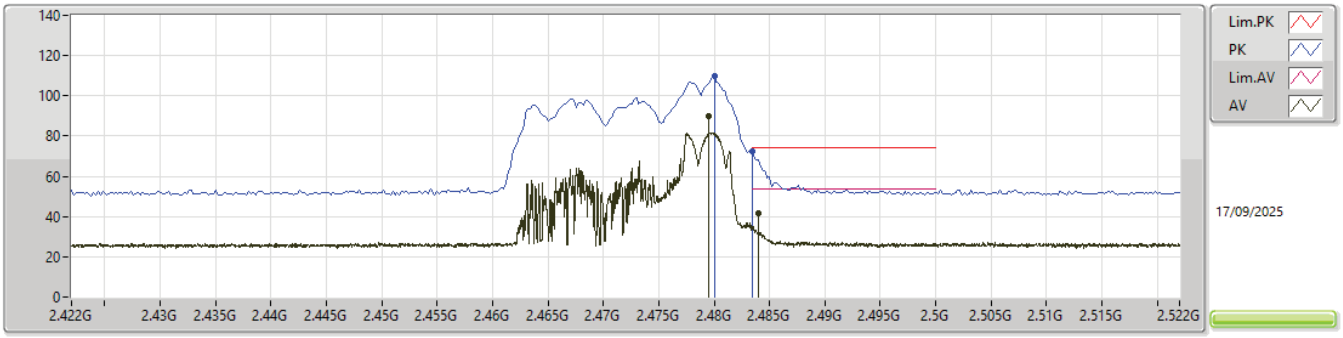


EUT Y_2TX
Setting 2.5
02-D-L-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4784G	108.89	Inf	-Inf	106.66	3	Vertical	24	1.25	-	28.40	5.12	31.29
AV	2.4785G	90.01	Inf	-Inf	87.78	3	Vertical	24	1.25	BP 1MHz	28.40	5.12	31.29
PK	2.4835G	73.58	74.00	-0.42	71.31	3	Vertical	24	1.25	-	28.43	5.13	31.29
AV	2.484G	41.66	54.00	-12.34	39.38	3	Vertical	24	1.25	BP 1MHz	28.44	5.13	31.29

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

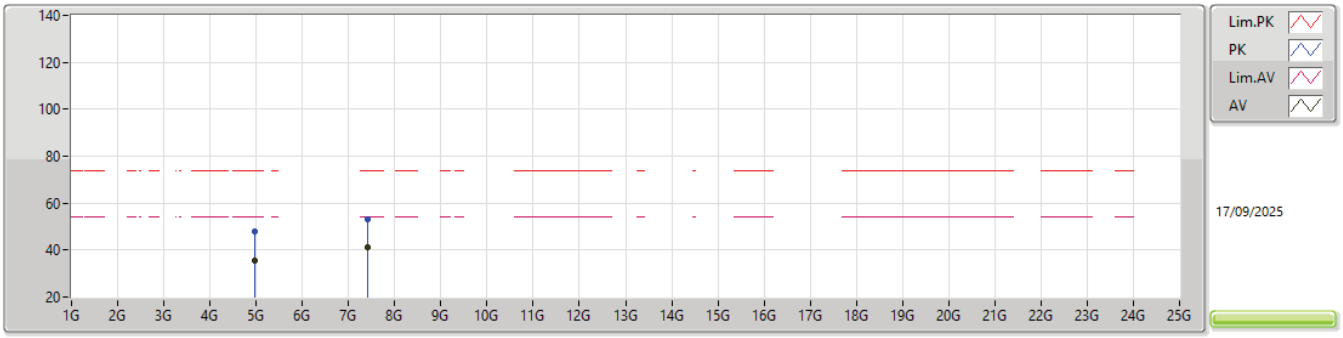


EUT Y_2TX
Setting 2.5
02-D-L-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.48G	109.90	Inf	-Inf	107.67	3	Horizontal	338	2.16	-	28.40	5.12	31.29
AV	2.4795G	90.13	Inf	-Inf	87.90	3	Horizontal	338	2.16	BP 1MHz	28.40	5.12	31.29
PK	2.4835G	72.21	74.00	-1.79	69.94	3	Horizontal	338	2.16	-	28.43	5.13	31.29
AV	2.484G	41.81	54.00	-12.19	39.53	3	Horizontal	338	2.16	BP 1MHz	28.44	5.13	31.29

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

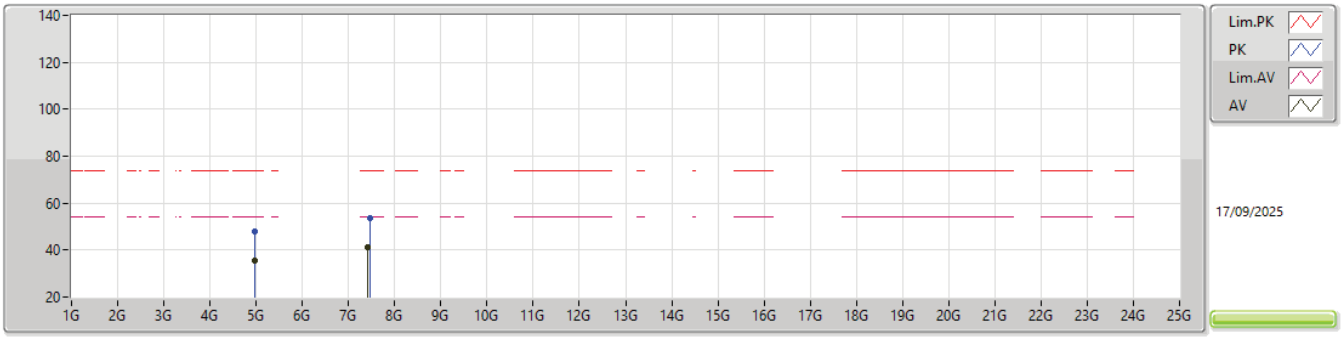


EUT Y_2TX
Setting 2.5
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95624G	47.89	74.00	-26.11	37.14	3	Vertical	329	2.62	-	33.31	7.51	30.07
AV	4.95714G	35.66	54.00	-18.34	24.90	3	Vertical	329	2.62	-	33.31	7.52	30.07
PK	7.4094G	53.15	74.00	-20.85	38.30	3	Vertical	276	1.22	-	36.70	9.04	30.89
AV	7.4058G	41.02	54.00	-12.98	26.18	3	Vertical	276	1.22	-	36.70	9.03	30.89

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

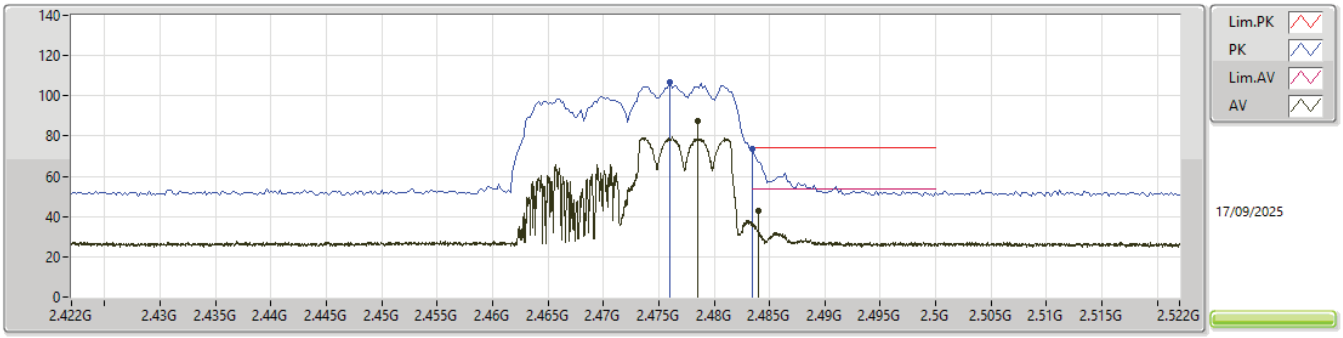


EUT Y_2TX
Setting 2.5
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.975G	48.00	74.00	-26.00	37.18	3	Horizontal	346	2.04	-	33.35	7.53	30.06
AV	4.96G	35.52	54.00	-18.48	24.75	3	Horizontal	346	2.04	-	33.32	7.52	30.07
PK	7.455G	53.60	74.00	-20.40	38.74	3	Horizontal	177	1.00	-	36.69	9.06	30.89
AV	7.414G	41.04	54.00	-12.96	26.19	3	Horizontal	177	1.00	-	36.70	9.04	30.89

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

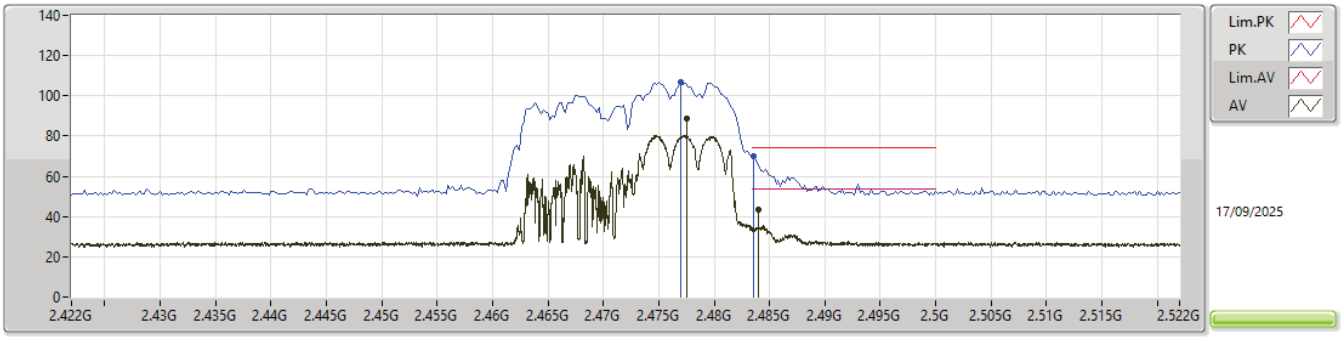


EUT Y_2TX
Setting 4.5
02-D-L-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.476G	106.59	Inf	-Inf	104.36	3	Vertical	32	1.47	-	28.40	5.12	31.29
AV	2.4785G	87.56	Inf	-Inf	85.33	3	Vertical	32	1.47	BP 1MHz	28.40	5.12	31.29
PK	2.4835G	73.56	74.00	-0.44	71.29	3	Vertical	32	1.47	-	28.43	5.13	31.29
AV	2.484G	42.87	54.00	-11.13	40.59	3	Vertical	32	1.47	BP 1MHz	28.44	5.13	31.29

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

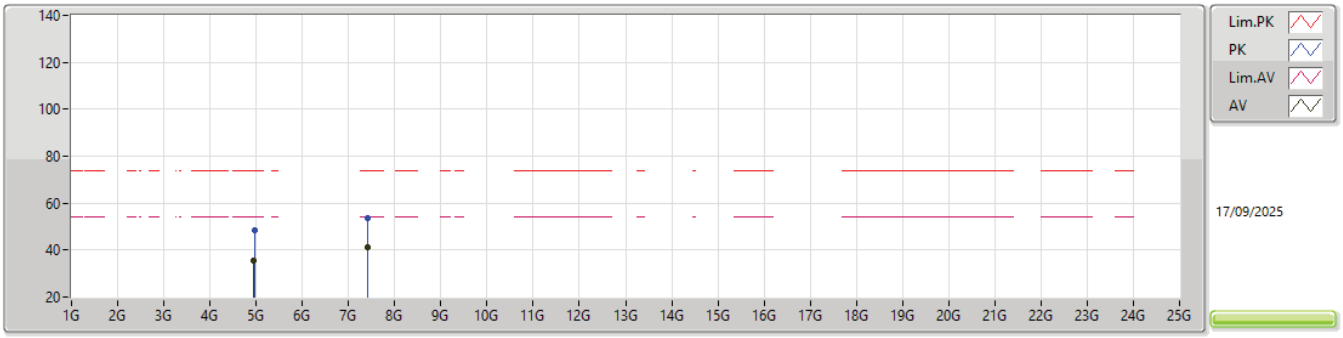


EUT Y_2TX
Setting 4.5
02-D-L-4-10

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.477G	106.89	Inf	-Inf	104.66	3	Horizontal	338	2.22	-	28.40	5.12	31.29
AV	2.4775G	88.82	Inf	-Inf	86.59	3	Horizontal	338	2.22	BP 1MHz	28.40	5.12	31.29
PK	2.4836G	70.11	74.00	-3.89	67.83	3	Horizontal	338	2.22	-	28.44	5.13	31.29
AV	2.484G	43.72	54.00	-10.28	41.44	3	Horizontal	338	2.22	BP 1MHz	28.44	5.13	31.29

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

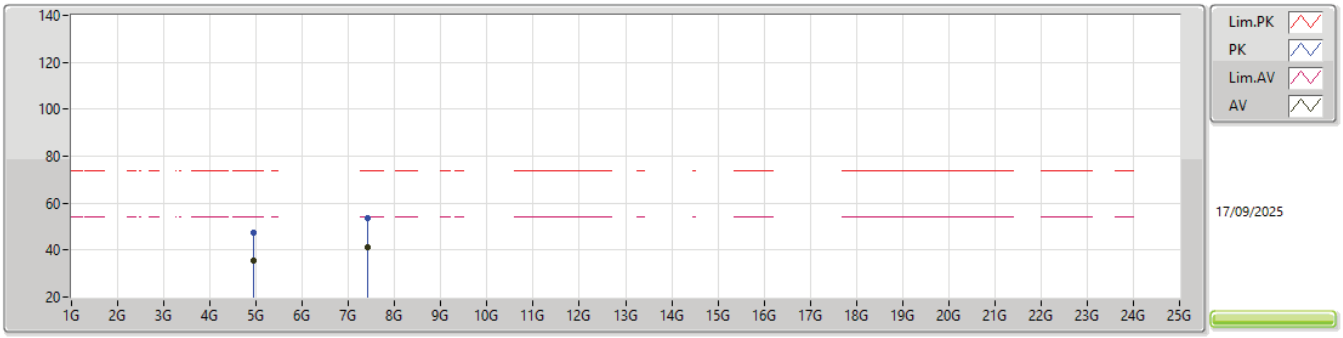


EUT Y_2TX
Setting 4.5
02-D-L-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.95798G	48.24	74.00	-25.76	37.47	3	Vertical	192	1.99	-	33.32	7.52	30.07
AV	4.95528G	35.36	54.00	-18.64	24.61	3	Vertical	192	1.99	-	33.31	7.51	30.07
PK	7.4097G	53.71	74.00	-20.29	38.86	3	Vertical	73	1.02	-	36.70	9.04	30.89
AV	7.41174G	40.96	54.00	-13.04	26.11	3	Vertical	73	1.02	-	36.70	9.04	30.89

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX



EUT Y_2TX
Setting 4.5
02-D-L-4

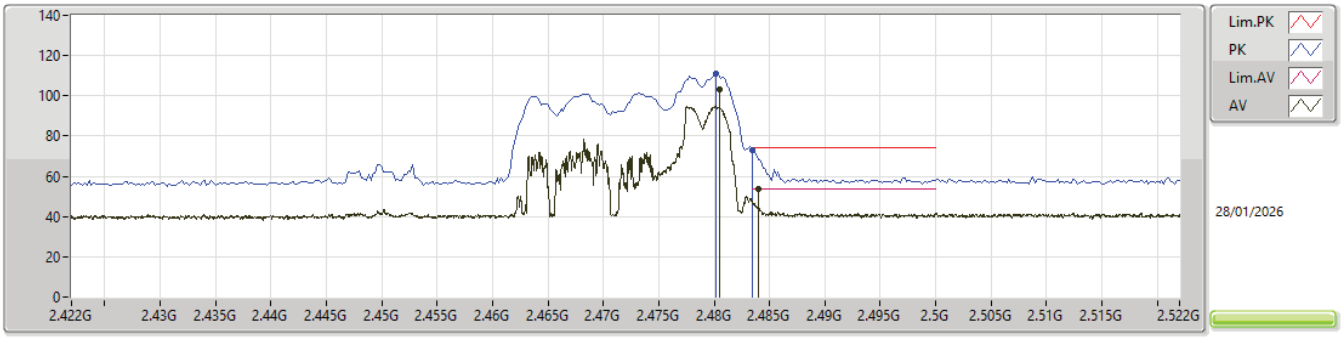
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.93098G	47.59	74.00	-26.41	36.92	3	Horizontal	106	2.29	-	33.26	7.49	30.08
AV	4.95486G	35.60	54.00	-18.40	24.85	3	Horizontal	106	2.29	-	33.31	7.51	30.07
PK	7.42326G	53.82	74.00	-20.18	38.97	3	Horizontal	126	1.12	-	36.70	9.04	30.89
AV	7.40298G	41.04	54.00	-12.96	26.20	3	Horizontal	126	1.12	-	36.70	9.03	30.89

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 37_2TX	Pass	PK	2.376G	73.85	74.00	-0.15	3	Vertical	256	1.07	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

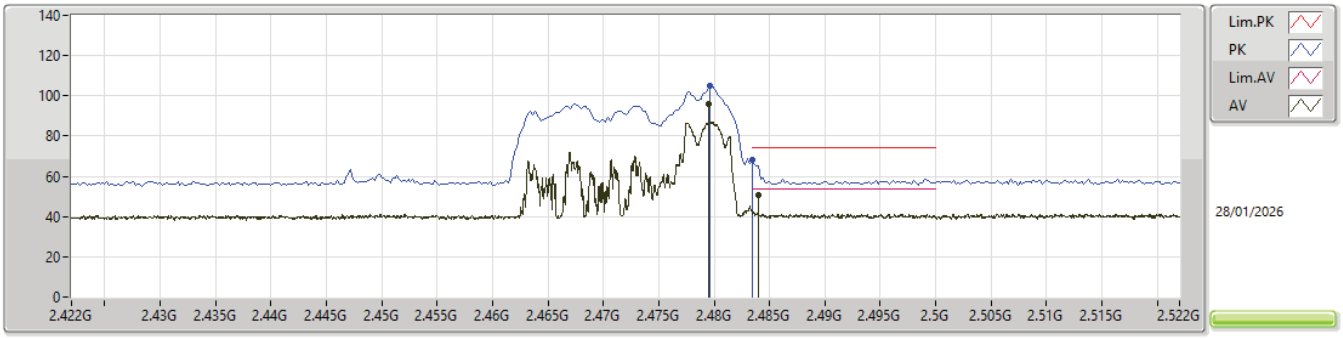


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4802G	110.80	Inf	-Inf	77.88	3	Vertical	234	2.92	-	27.80	5.12	-
AV	2.4805G	103.08	Inf	-Inf	70.15	3	Vertical	234	2.92	BP 1MHz	27.81	5.12	-
PK	2.4835G	72.77	74.00	-1.23	39.80	3	Vertical	234	2.92	-	27.84	5.13	-
AV	2.484G	53.51	54.00	-0.49	20.54	3	Vertical	234	2.92	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

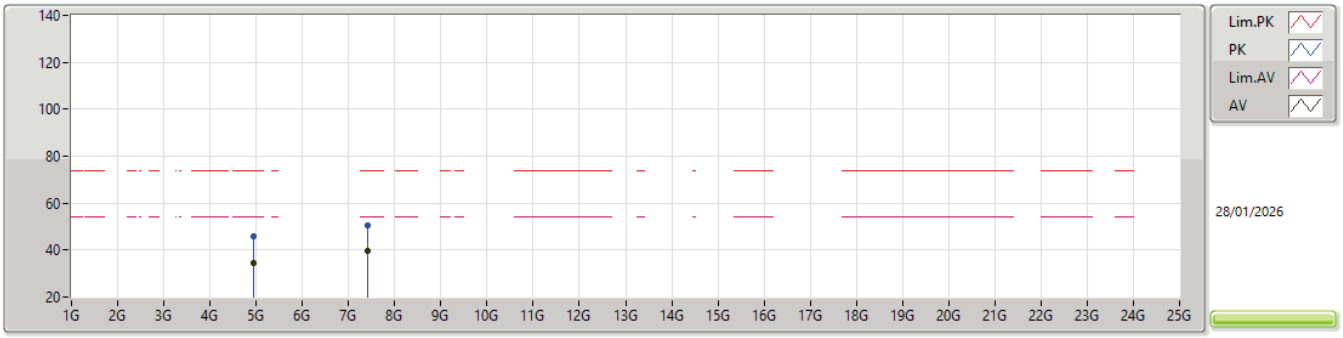


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4796G	105.02	Inf	-Inf	72.10	3	Horizontal	76	1.80	-	27.80	5.12	-
AV	2.4795G	95.65	Inf	-Inf	62.74	3	Horizontal	76	1.80	BP 1MHz	27.79	5.12	-
PK	2.4835G	68.41	74.00	-5.59	35.44	3	Horizontal	76	1.80	-	27.84	5.13	-
AV	2.484G	50.74	54.00	-3.26	17.77	3	Horizontal	76	1.80	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

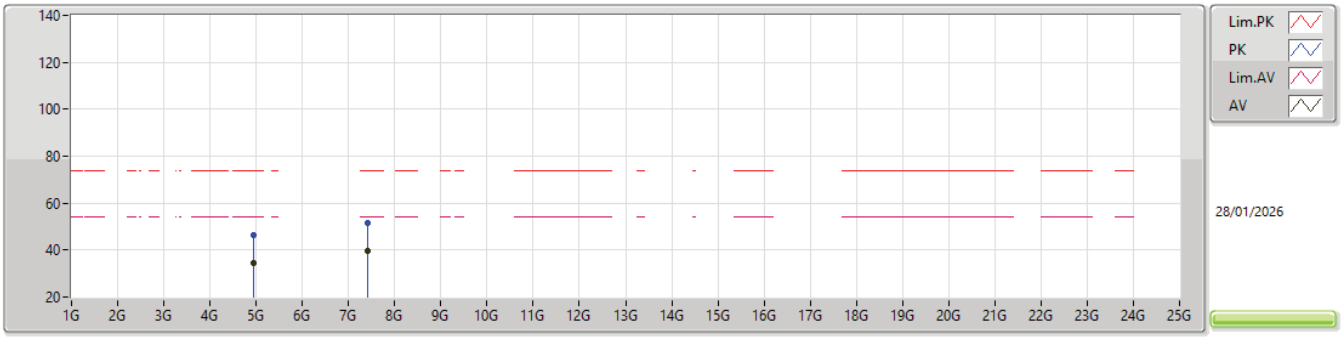


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94612G	46.03	74.00	-27.97	41.00	3	Vertical	187	1.39	-	32.99	7.21	35.17
AV	4.9419G	34.44	54.00	-19.56	29.43	3	Vertical	187	1.39	-	32.98	7.20	35.17
PK	7.4164G	50.76	74.00	-23.24	39.44	3	Vertical	76	1.82	-	36.57	8.72	33.97
AV	7.41608G	39.77	54.00	-14.23	28.46	3	Vertical	76	1.82	-	36.57	8.71	33.97

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

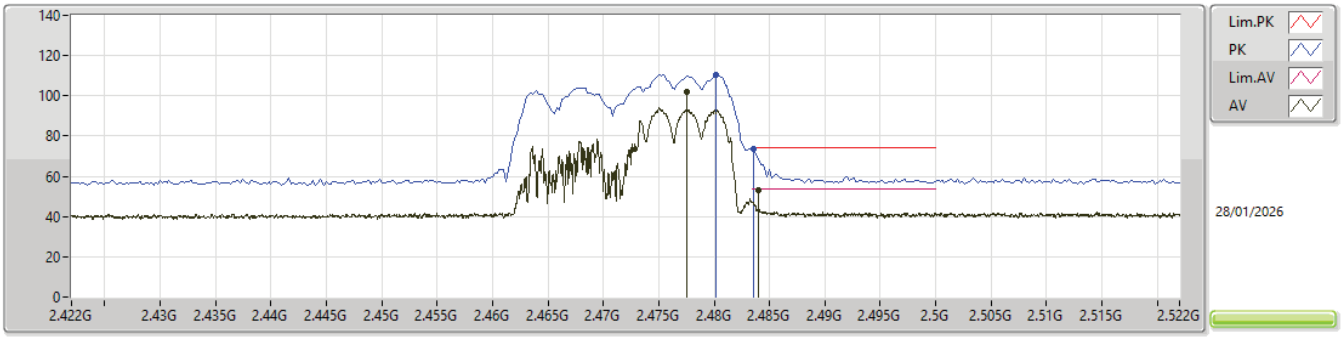


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94462G	46.13	74.00	-27.87	41.10	3	Horizontal	237	2.83	-	32.99	7.21	35.17
AV	4.94554G	34.30	54.00	-19.70	29.27	3	Horizontal	237	2.83	-	32.99	7.21	35.17
PK	7.41358G	51.52	74.00	-22.48	40.21	3	Horizontal	195	1.66	-	36.57	8.71	33.97
AV	7.41976G	39.69	54.00	-14.31	28.37	3	Horizontal	195	1.66	-	36.56	8.72	33.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

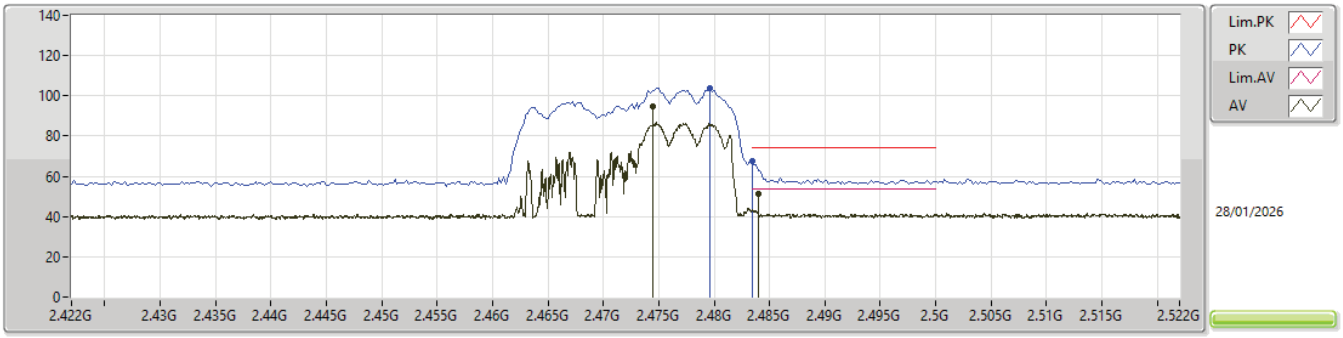


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4802G	110.32	Inf	-Inf	77.40	3	Vertical	226	2.66	-	27.80	5.12	-
AV	2.4775G	101.74	Inf	-Inf	68.85	3	Vertical	226	2.66	BP 1MHz	27.77	5.12	-
PK	2.4836G	73.34	74.00	-0.66	40.37	3	Vertical	226	2.66	-	27.84	5.13	-
AV	2.484G	53.24	54.00	-0.76	20.27	3	Vertical	226	2.66	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

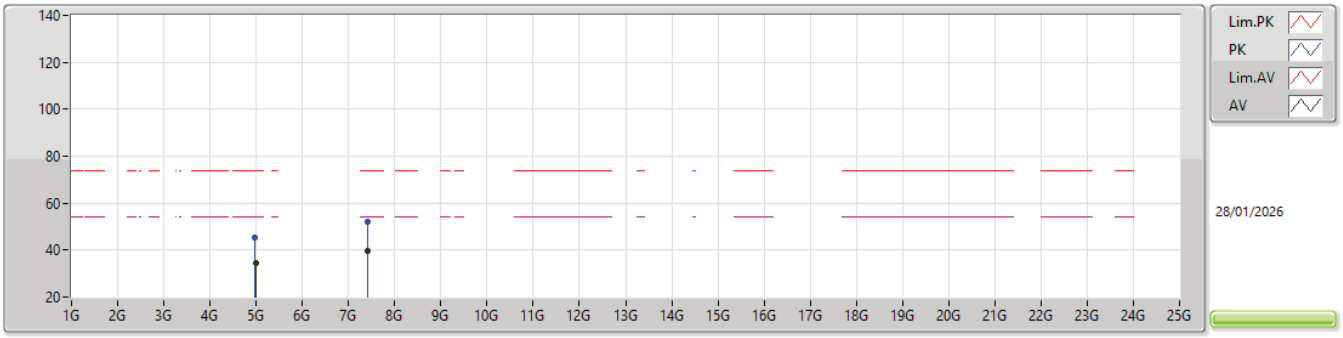


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4796G	104.00	Inf	-Inf	71.08	3	Horizontal	73	1.80	-	27.80	5.12	-
AV	2.4745G	94.92	Inf	-Inf	62.07	3	Horizontal	73	1.80	BP 1MHz	27.74	5.11	-
PK	2.4835G	67.84	74.00	-6.16	34.87	3	Horizontal	73	1.80	-	27.84	5.13	-
AV	2.484G	51.21	54.00	-2.79	18.24	3	Horizontal	73	1.80	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

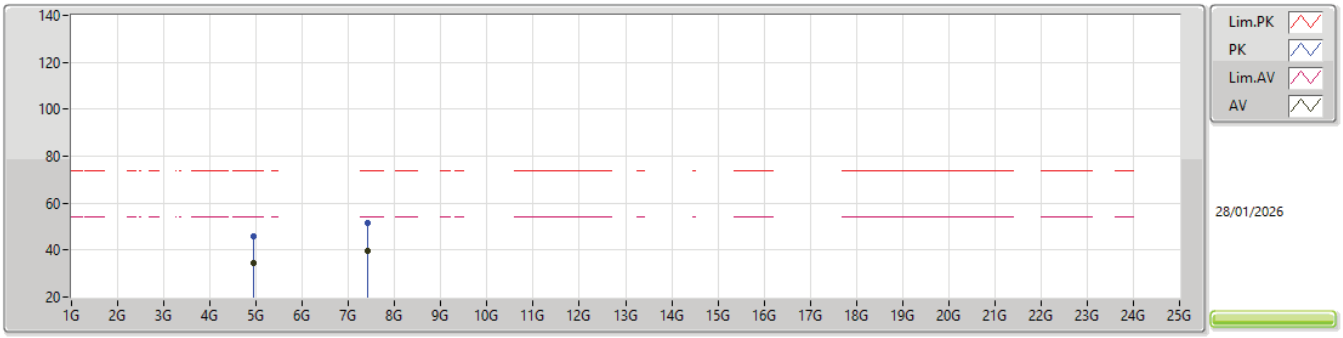


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.978G	45.44	74.00	-28.56	40.25	3	Vertical	162	3.00	-	33.11	7.24	35.16
AV	4.9872G	34.37	54.00	-19.63	29.13	3	Vertical	162	3.00	-	33.15	7.25	35.16
PK	7.41846G	52.10	74.00	-21.90	40.78	3	Vertical	81	2.65	-	36.56	8.72	33.96
AV	7.41896G	39.81	54.00	-14.19	28.49	3	Vertical	81	2.65	-	36.56	8.72	33.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX



EUT X_2TX
Setting 4.5
05-C-R-5

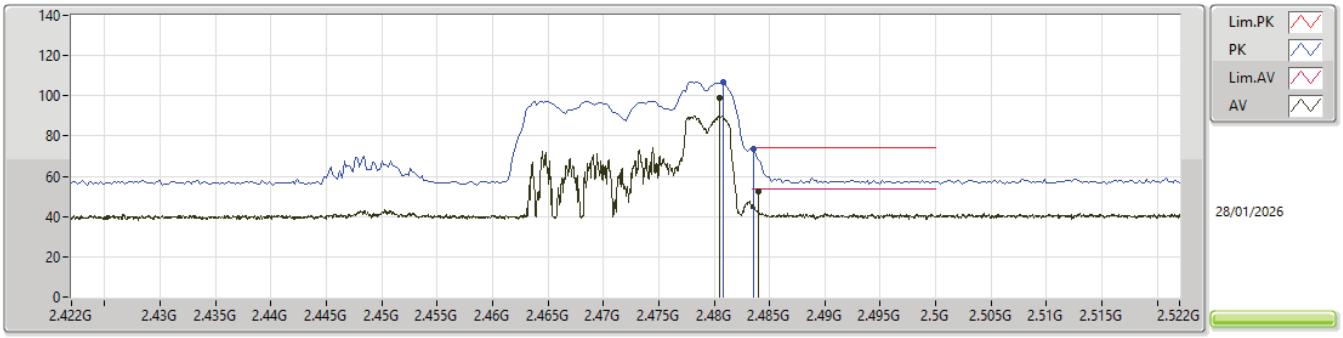
Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9554G	45.93	74.00	-28.07	40.85	3	Horizontal	292	1.44	-	33.02	7.22	35.16
AV	4.9418G	34.46	54.00	-19.54	29.45	3	Horizontal	292	1.44	-	32.98	7.20	35.17
PK	7.41462G	51.36	74.00	-22.64	40.05	3	Horizontal	185	1.63	-	36.57	8.71	33.97
AV	7.42096G	39.78	54.00	-14.22	28.45	3	Horizontal	185	1.63	-	36.56	8.73	33.96

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0),RU 26,#RU 0_2TX	Pass	PK	2.359G	73.91	74.00	-0.09	3	Vertical	272	2.48	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

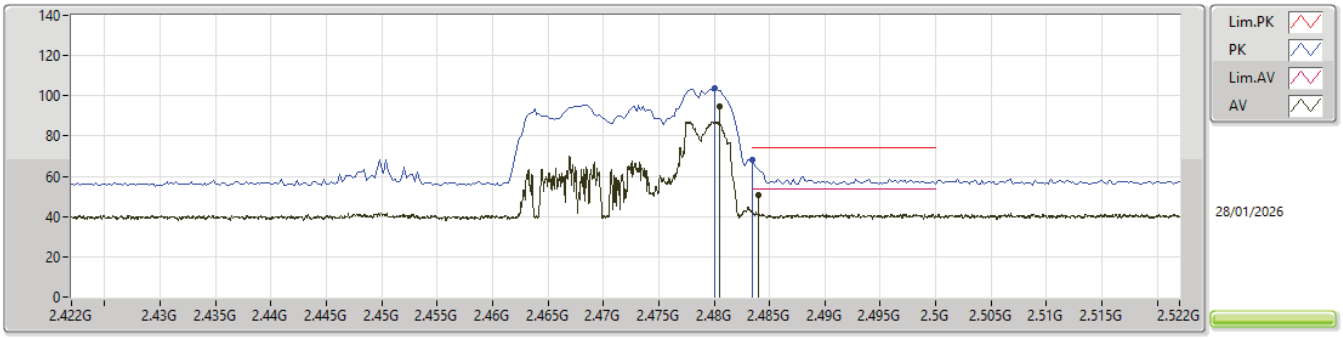


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4808G	106.95	Inf	-Inf	74.02	3	Vertical	177	2.19	-	27.81	5.12	-
AV	2.4805G	98.71	Inf	-Inf	65.78	3	Vertical	177	2.19	BP 1MHz	27.81	5.12	-
PK	2.4836G	73.35	74.00	-0.65	40.38	3	Vertical	177	2.19	-	27.84	5.13	-
AV	2.484G	52.57	54.00	-1.43	19.60	3	Vertical	177	2.19	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

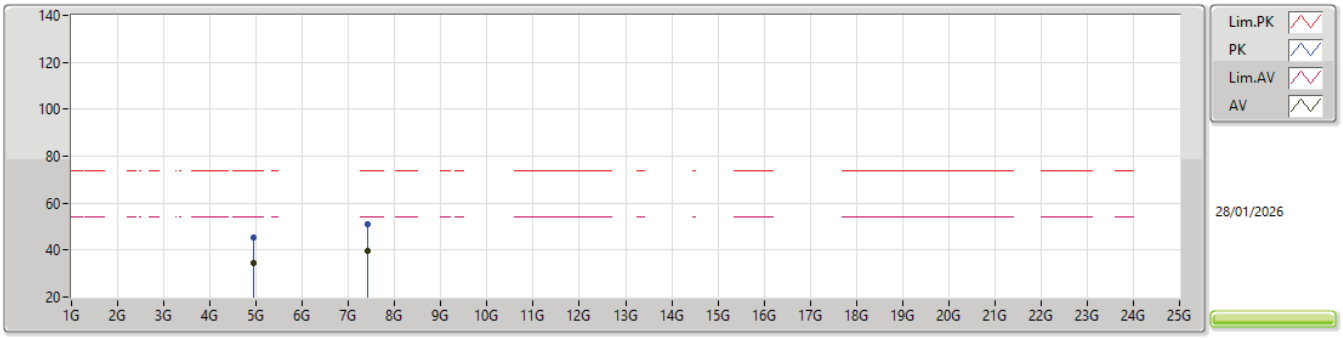


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.48G	103.60	Inf	-Inf	70.68	3	Horizontal	177	1.80	-	27.80	5.12	-
AV	2.4805G	94.87	Inf	-Inf	61.94	3	Horizontal	177	1.80	BP 1MHz	27.81	5.12	-
PK	2.4835G	67.90	74.00	-6.10	34.93	3	Horizontal	177	1.80	-	27.84	5.13	-
AV	2.484G	50.74	54.00	-3.26	17.77	3	Horizontal	177	1.80	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

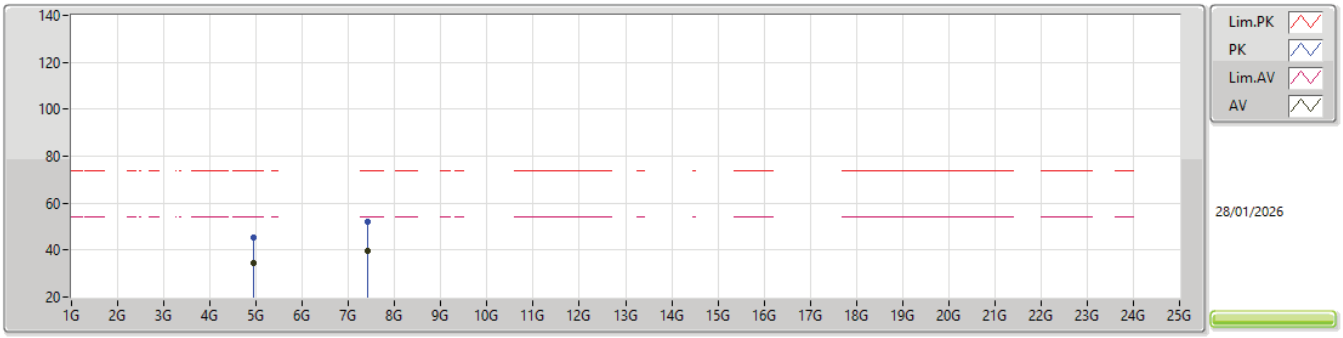


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94668G	45.48	74.00	-28.52	40.45	3	Vertical	207	2.79	-	32.99	7.21	35.17
AV	4.94308G	34.23	54.00	-19.77	29.20	3	Vertical	207	2.79	-	32.99	7.21	35.17
PK	7.4175G	50.82	74.00	-23.18	39.51	3	Vertical	143	1.99	-	36.56	8.72	33.97
AV	7.41966G	39.82	54.00	-14.18	28.50	3	Vertical	143	1.99	-	36.56	8.72	33.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 52,#RU 40_2TX

2472MHz_TX

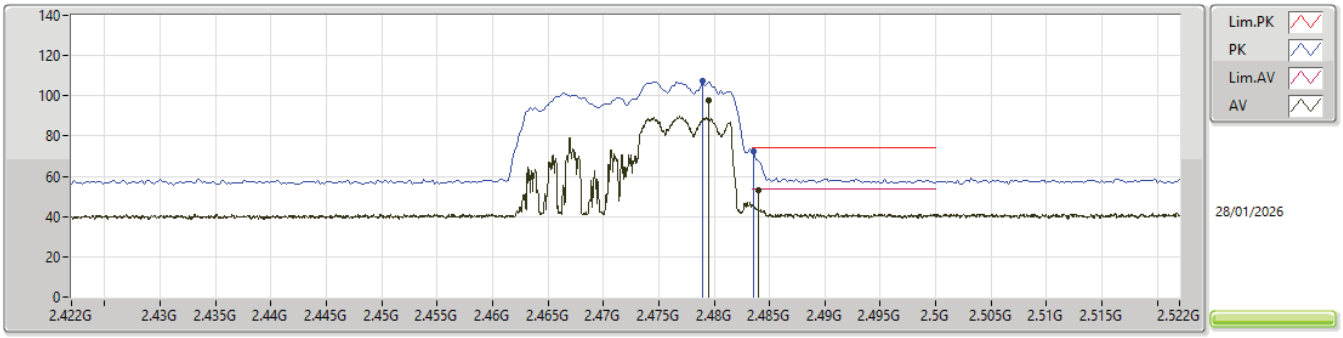


EUT X_2TX
Setting 2.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94372G	45.53	74.00	-28.47	40.50	3	Horizontal	207	1.26	-	32.99	7.21	35.17
AV	4.94464G	34.26	54.00	-19.74	29.23	3	Horizontal	207	1.26	-	32.99	7.21	35.17
PK	7.41302G	51.92	74.00	-22.08	40.61	3	Horizontal	271	2.46	-	36.57	8.71	33.97
AV	7.41956G	39.76	54.00	-14.24	28.44	3	Horizontal	271	2.46	-	36.56	8.72	33.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

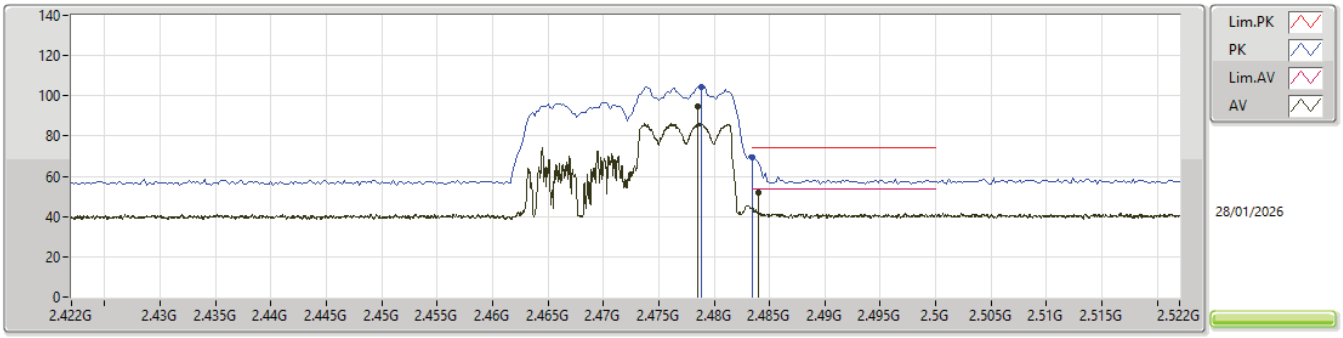


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.479G	107.31	Inf	-Inf	74.40	3	Vertical	181	1.96	-	27.79	5.12	-
AV	2.4795G	97.88	Inf	-Inf	64.97	3	Vertical	181	1.96	BP 1MHz	27.79	5.12	-
PK	2.4836G	72.24	74.00	-1.76	39.27	3	Vertical	181	1.96	-	27.84	5.13	-
AV	2.484G	53.38	54.00	-0.62	20.41	3	Vertical	181	1.96	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

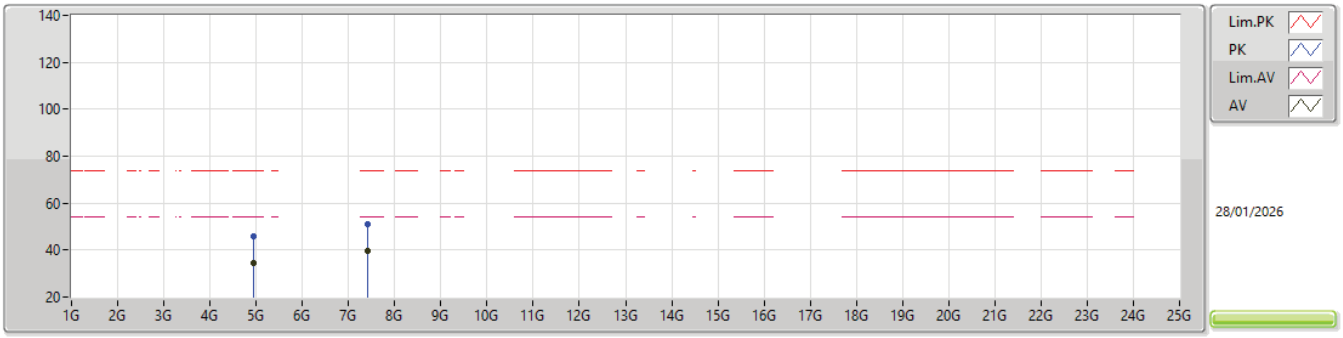


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.4788G	104.40	Inf	-Inf	71.49	3	Horizontal	178	1.80	-	27.79	5.12	-
AV	2.4785G	94.85	Inf	-Inf	61.94	3	Horizontal	178	1.80	BP 1MHz	27.79	5.12	-
PK	2.4835G	69.62	74.00	-4.38	36.65	3	Horizontal	178	1.80	-	27.84	5.13	-
AV	2.484G	51.76	54.00	-2.24	18.79	3	Horizontal	178	1.80	BP 1MHz	27.84	5.13	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX

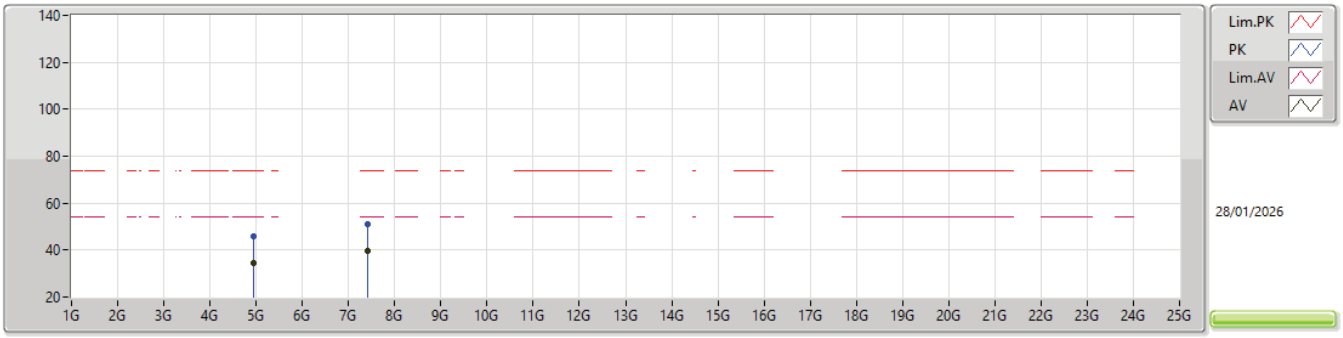


EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94434G	45.93	74.00	-28.07	40.90	3	Vertical	176	1.92	-	32.99	7.21	35.17
AV	4.94158G	34.37	54.00	-19.63	29.36	3	Vertical	176	1.92	-	32.98	7.20	35.17
PK	7.41294G	50.92	74.00	-23.08	39.61	3	Vertical	315	2.77	-	36.57	8.71	33.97
AV	7.41828G	39.82	54.00	-14.18	28.50	3	Vertical	315	2.77	-	36.56	8.72	33.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0),RU 106,#RU 54_2TX

2472MHz_TX



EUT X_2TX
Setting 4.5
05-C-R-5

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.94138G	45.82	74.00	-28.18	40.81	3	Horizontal	20	1.25	-	32.98	7.20	35.17
AV	4.94356G	34.42	54.00	-19.58	29.39	3	Horizontal	20	1.25	-	32.99	7.21	35.17
PK	7.4195G	50.88	74.00	-23.12	39.56	3	Horizontal	313	1.85	-	36.56	8.72	33.96
AV	7.41548G	39.68	54.00	-14.32	28.37	3	Horizontal	313	1.85	-	36.57	8.71	33.97