Radio Test Report

Equipment	**:**	**WiFi 6E mini PCIe module**
Brand Name	**:**	**AsiaRF Co., Ltd.**
Model Name	**:**	**AW7916-NPD, AW7916-AED**
Applicant	**:**	**AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City Taiwan 23455**
Manufacturer	**:**	**AsiaRF Co., Ltd. 1F, 7, Houde Street, Yonghe Dist. New Taipei City Taiwan 23455**
Standard	**:**	**EN 300 328 V2.2.2 (2019-07)**

The product was received on Apr. 07, 2023, and testing was started from Jun. 01, 2023 and completed on Nov. 13, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in EN 300 328 V2.2.2 (2019-07) 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.

Jordan Hsiao

Approved by: Jordan Hsiao

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

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History of this test report

Report No.	Version	Description	Issued Date
ER2D0804-01AC	01	Initial issue of report	Apr. 29, 2024

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.1	4.3.2.2	RF Output Power	PASS	-
3.2	4.3.2.3	Power Spectral Density	PASS	-
5.1	4.3.2.6	Adaptivity	PASS	-
3.3	4.3.2.7	Occupied Channel Bandwidth	PASS	-
3.4	4.3.2.8	Transmitter unwanted emissions in the out-of-band domain	PASS	-
3.5	4.3.2.9	Transmitter unwanted emissions in the spurious domain	PASS	-
4.1	4.3.2.10	Receiver spurious emissions	PASS	-
6.1	4.3.2.11	Receiver Blocking	PASS	-
1.1.8	4.3.2.12	Geo-location capability	N/A	-

Declaration of Conformity:
The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.
Comments and explanations:
The EUT supports beamforming and CDD modes, and the CDD mode is the worst case. Therefore, all test items are evaluated in the report. The beamforming mode only evaluates the output power.

Reviewed by: Barry Hsiao

Report Producer: Amber Chiu

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]

<Non-Beamforming>

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11b	20	2TX
2.4-2.4835GHz	802.11g	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW40	40	2TX

< Beamforming>

Band	Mode	BWch (MHz)	Nant
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW40-BF	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, VHT40 use a combination of OFDM-BPSK, QPSK, 16QAM, 64QAM, 256QAM modulation.
- HEW20, 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.	Brand	Model Name	Antenna Type	Connector
1	AsiaRF Co., Ltd.	ANTS0WF602M02001	Dipole antenna	I-PEX
2	AsiaRF Co., Ltd.	ANTS0WF602M02001	Dipole antenna	I-PEX
3	AsiaRF Co., Ltd.	ANTS0WF602M02001	Dipole antenna	I-PEX

Ant.	Port	Gain (dBi)		
		2.4G	5G	6G
1	1	5	5	5
2	2	5	5	5
3	3	-	5	5

Note 1: The EUT has three antennas.

Note 2: The Ant. 3 is only for DFS RX and MRC function.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (2TX/2RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit/receive simultaneously.

For 5GHz function:

For IEEE 802.11 a/n/ac/ax mode (2TX/3RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit simultaneously.

Ant. 1 (port 1) and Ant. 2 (port 2) and Ant.3 (port 3) could receive simultaneously.

For 6GHz function:

For IEEE 802.11 ax mode (2TX/3RX)

Ant. 1 (port 1) and Ant. 2 (port 2) could transmit simultaneously.

Ant. 1 (port 1) and Ant. 2 (port 2) and Ant.3 (port 3) could receive simultaneously.

1.1.3 Test Duty Cycle

<Non-Beamforming>

Mode	DC	DCF (dB)
802.11b_Nss1,(1Mbps)_2TX	0.992	0.035
802.11g_Nss1,(6Mbps)_2TX	0.96	0.177
802.11ax HEW20_Nss1,(MCS0)_2TX	0.949	0.227
802.11ax HEW40_Nss1,(MCS0)_2TX	0.906	0.429

< Beamforming>

Mode	DC	DCF (dB)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	0.949	0.227
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	0.906	0.429

1.1.4 EUT Information

Operational Condition			
EUT Power Type	From Test fixture		
Beamforming Function	☒ With beamforming	☐ Without beamforming	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Software / Firmware Version for Adaptivity & Receiver Blocking			OpenWrt 21.02-SNAPSHOT r16859-7576fe5669 / LuCI Master git-23.139.28955-5d7f46c

Type of EUT		
☒	Stand-alone	
☐	Combined (EUT where the radio part is fully integrated within another device)	
	Combined Equipment - Brand Name / Model No.:	…
☐	Plug-in radio (EUT intended for a variety of host systems)	
	Host System - Brand Name / Model No.:	…
☐	Other:	

1.1.5 Table for Multiple Listing

The model names in the following table are all refer to the identical product.

Model Name	Description
AW7916-NPD, AW7916-AED	AW7916-AED is M.2 AE key interface module and AW7619-NPD is Mini PCIe interface module.

1.1.6 Table for Permissive Change

This product is an extension of original one reported under Sporton project number: ER2D0804AC.

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

Modifications	Performance Checking
1. Add Model Name. (AW7916-AED) 2. Photographs Of EUT was update.	The worst case of Radiated Unwanted Emissions was evaluated, and the test result of original report was found to be the worst case scenario.

1.1.7 Adaptive Equipment

Adaptive Equipment		
☐	non-Adaptive Equipment	
☒	Adaptive Equipment without the possibility to switch to a non-adaptive mode:	
	☐	Maximum declared RF Output power of less than 10 dBm e.i.r.p.
	☒	The equipment has implemented an LBT based DAA mechanism:
		☐ The equipment is Frame Based equipment
		☒ The equipment is Load Based equipment
		☐ The equipment can switch dynamically between Frame Based and Load Based equipment
	☐	The equipment has implemented an non-LBT based DAA mechanism
	☐	The equipment can operate in more than one adaptive mode
☐	Adaptive Equipment which can also operate in a non-adaptive mode	

1.1.8 Geo-location capability supported by the equipment

Geo-location capability supported by the equipment		
☐	Yes	
	☐	The geographical location determined by the equipment as defined in EN 300 328, clause 4.3.2.12.3 is not accessible to the user.
☒	No	

1.2 Testing Applied Standards

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

- EN 300 328 V2.2.2 (2019-07)

1.3 Testing Location Information

Test Lab.：Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test Condition	**Test Site No.**	**Test Engineer**	**Test Environment**	**Test Date**
RF Conducted	TH01-HY	Johnny Yu	22.5~22.9°C / 56~59%	12/Jun/2023
Radiated	05CH01-HY	Wayne Chiu	22.3~23.6°C / 52~57%	01/Jun/2023~08/Jun/2023
Adaptivity	DFS01-HY	Wayne Lin	21.8~24.5°C / 50~61 %	30/Jun/2023~13/Nov/2023
Receiver Blocking	DFS03-HY	CHUN-YI WU	22.7~24.6°C / 51~54%	11/Aug/2023~12/Aug/2023
☐ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	

Note：The tested sample of the new test item was received on 21/Mar/2024.

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)

Parameter	Uncertainty	Remark
RF Output Power	1.2 dB	Confidence levels of 95%
Power Spectral Density	1.2 dB	Confidence levels of 95%
Duty cycle, Tx-sequence, Tx-gap	1 %	Confidence levels of 95%
Adaptivity	1 %	Confidence levels of 95%
Occupied Channel Bandwidth	0.05 MHz	Confidence levels of 95%
Receiver Blocking	1 %	Confidence levels of 95%
Radiated Spurious Emissions	4.8 dB	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Condition

Condition Item	Abbreviation/Remark	Remark
Tnom	Tnom	20°C
Tmin	Tmin	0°C
Tmax	Tmax	70°C
-	Vnom	230V

2.2 Test Channel Mode

Test Software Version	QATool_Dbg V 0.0.2.73

<Non-Beamforming>

Mode	PowerSetting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	0
2442MHz	-0.5
2472MHz	-0.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	2.5
2442MHz	2.5
2472MHz	2.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	2.5
2442MHz	3
2472MHz	3
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	3
2442MHz	3
2462MHz	3

<Beamforming>

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	-0.5
2442MHz	0
2472MHz	0
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	0
2442MHz	0
2462MHz	0

2.3 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Test Items	RF Output Power, Power Spectral Density, Occupied Channel Bandwidth, Transmitter unwanted emissions in the OOB domain
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests			
Test Item	Transmitter Unwanted Emissions in The Spurious Domain Receiver Spurious Emissions		
Test Condition	Radiated measurement		
Operating Mode	Transmit / Receive		
1	Adapter Mode		
Orthogonal Planes of EUT	**X Plane**	**Y Plane**	**Z Plane**
			
Worst Planes of EUT			V

The Worst Case Mode for Following Conformance Tests	
Test Items	Adaptivity
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Test Items	Receiver Blocking
Test Condition	Conducted measurement at a receiver chain

2.4 Support Equipment

Support Equipment - RF Conducted				
No.	**Equipment**	**Brand Name**	**Model Name**	**Remark**
1	Notebook	DELL	E5410	-
2	Adapter for NB	DELL	HA65NM130	-
3	Adapter	iDRC	CW1201000	Provided by Customer
4	PCB fixture	N/A	N/A	Provided by Customer

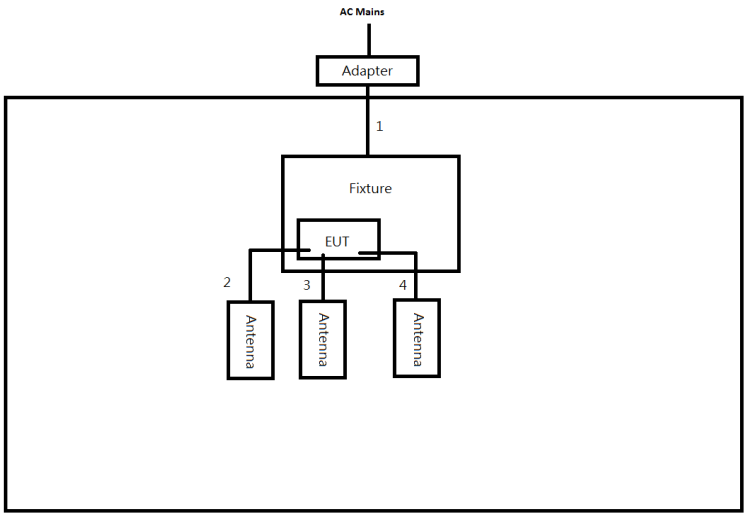
Support Equipment - Radiated Emission				
No.	**Equipment**	**Brand Name**	**Model Name**	**Remark**
1	Adapter	iDRC	CW1201000	Provided by Customer
2	PCB fixture	N/A	N/A	Provided by Customer
3	Antenna*3	AsiaRF Co., Ltd.	ANTS0WF602M02001	Provided by Customer

Support Equipment - Adaptivity				
No.	**Equipment**	**Brand Name**	**Model Name**	**Remark**
1	AP (Master)	NETGEAR	RAXE500	-
2	Notebook	DELL	Latitude E5550	-
3	Notebook	DELL	Latitude E5560	-
4	Adapter	iDRC	CW1201000	Provided by Customer
5	Adapter	NETGEAR	2ABS060K	-

Support Equipment - Receiver Blocking				
No.	**Equipment**	**Brand Name**	**Model Name**	**Remark**
1	Notebook	Lenovo	ThinkBook15 G4 IAP	-
2	Sheilding Box	EMEC	EM-SHB-650550250-M	-
3	Adapter	iDRC	CW1201000	Provided by Customer

2.5 Test Setup Diagram

Test Setup Diagram - Radiated Test



Item	Connection	Shielded	Length(m)	Remark
1	ADC Power cable	No	2.0	-
2	DC Power cable	No	1.5	-
3	Antenna Cable	No	0.1	-
4	Antenna Cable	No	0.1	-
5	Antenna Cable	No	0.1	-

3 Transmitter Test Result

3.1 RF Output Power

3.1.1 RF Output Power Limit

RF Output Power Limit
☒ Mean equivalent isotropic radiated power (e.i.r.p.) ≤ 20 dBm

3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ The measurements shall be performed at both normal environmental conditions and at the extremes of the operating temperature range.
☒ Refer as EN 300 328, clause 5.4.2.2.1 for conducted measurement.

Step 1: Use a fast power sensor suitable for 2,4 GHz and capable of 1 MS/s.
Use the following settings:
- Sample speed 1 MS/s or faster.
- The samples shall represent the RMS power of the signal.
- Measurement duration: For adaptive equipment, the measurement duration shall be long enough to ensure a minimum number of bursts (at least 10) are captured.

NOTE 1: For adaptive equipment, to increase the measurement accuracy, a higher number of bursts may be used.

Step 2: For conducted measurements on devices with multiple transmit chains:
- Connect one power sensor to each transmit port for a synchronous measurement on all transmit ports.
- Trigger the power sensors so that they start sampling at the same time.
  Make sure the time difference between the samples of all sensors is less than half the time between the samples of all sensors is less than 500 ns.
- For each instant in time, sum the power of the individual samples of all ports and store them. Use these stored samples in all following steps.

Step 3: Find the start and stop times of each burst in the stored measurement samples.
NOTE 2: The start and stop times are defined as the points where the power is at least 30 dB the RMS burst power calculated in step 4.

Step 4: Between the start and stop times of each individual burst calculate the RMS power over the burst using the formula below. Save these Pburst values, as well as the start and stop times for each burst.

$$P_{burst} = \frac{1}{k}\sum_{n=1}^{k} P_{sample}(n)$$

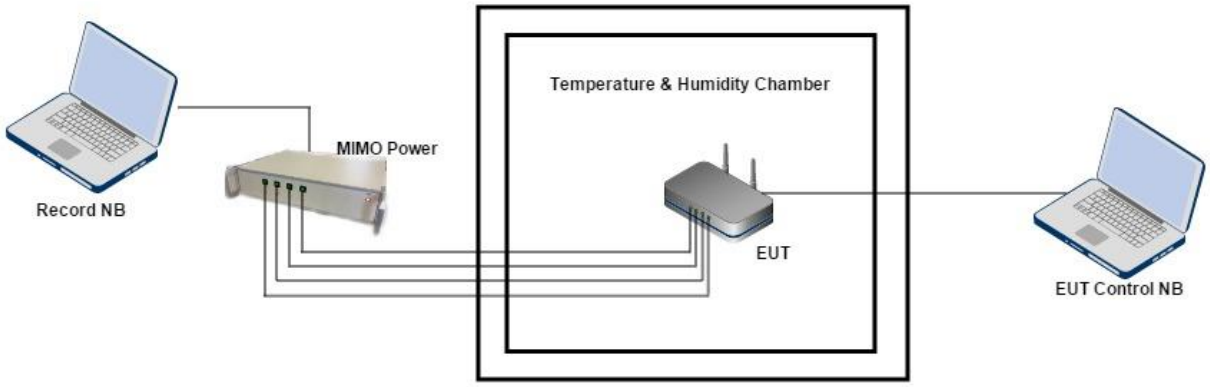
with 'k' being the total number of samples and 'n' the actual sample number

Step 5: The highest of all Pburst values (value "A" in dBm) will be used for maximum e.i.r.p. calculations.

Step 6: Add the (stated) antenna assembly gain "G" in dBi of the individual antenna. If applicable, add the additional beamforming gain "Y" in dB. If more than one antenna assembly is intended for this power setting, the maximum overall antenna gain (G or G + Y) shall be used. The RF Output Power (P) shall be calculated using the formula below: P = A + G + Y. This value, which shall comply with the limit given in clauses 4.3.2.2.3, shall be recorded in the test report.
☐ Refer as EN 300 328, clause 5.4.2.2.2 for radiated measurement.

3.1.4 Test Setup

RF Output Power



Test conditions:
The measurements for RF output power shall be performed at both normal environmental conditions and at the extremes of the operating temperature range.

3.1.5 Test Result of RF Output Power

Refer as Appendix A

3.2 Power Spectral Density

3.2.1 Power Spectral Density Limit

Power Spectral Density Limit
☒ Mean equivalent isotropic radiated power (e.i.r.p.) density ≤ 10 dBm/MHz

3.2.2 Measuring Instruments

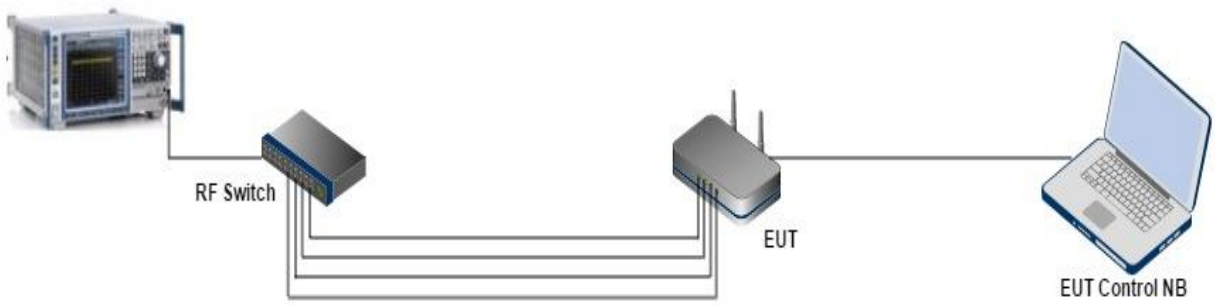
Refer a test equipment and calibration data table in this test report.

3.2.3 Test Procedures

Test Method		
☒ Power spectral density shall be measured using one of the options below.		
	☒ Option 1: For equipment with continuous and non-continuous transmissions. Refer as EN 300 328, clause 5.4.3.2.1.	
	☐ Option 2: For equipment with continuous transmission capability.	
☒ Refer as EN 300 328, clause 5.4.3.2.1 for conducted measurement.		
	☒ Option 1:	
	Step 1:	Connect the UUT to the spectrum analyzer and use the following settings: - Start & Stop Frequency: 2400 MHz ~ 2483.5MHz - Resolution BW: 10 kHz - Video BW: 30 kHz - Sweep Points: > 8 350 - Detector Mode: RMS - Trace Mode: Max Hold - Sweep time: For non-continuous transmissions: 2 x Channel Occupancy Time x number of sweep points. For non-adaptive equipment: use the maximum TX-sequence time in the formula above instead of the Channel Occupancy Time. For continuous transmissions: 10s; the sweep time may be increased further until a value where the sweep time has no impact on the RMS value of the signal For non-continuous signals, wait for the trace to stabilize.
	Step 2:	For conducted measurements on smart antenna systems using either operating mode 2 or operating mode 3 (see clause 5.3.2.2), repeat the measurement for each of the transmit ports. For each sampling point (frequency domain), add up the coincident power values (in mW) for the different transmit chains and use this as the new data set.
	Step 3:	Add up the values for power for all the samples in the file using the formula below. $P_{Sum} = \sum_{n=1}^{k} P_{sample}(n)$ with 'k' being the total number of samples and 'n' the actual sample number
	Step 4:	Normalize the individual values for power (in dBm) so that the sum is equal to the RF Output Power (e.i.r.p.) measured in clause 5.4.2 and save the corrected data. The following formulas can be used: $C_{Corr} = P_{Sum} - P_{e.i.r.p.}$ $P_{Samplecorr}(n) = P_{Sample}(n) - C_{Corr}$ with 'n' being the actual sample number

	Step 5:	Starting from the first sample $P_{Samplecorr}(n)$ (lowest frequency), add up the power (in mW) of the following samples representing a 1 MHz segment and record the results for power and position (i.e. sample #1 to sample #100). This is the Power Spectral Density (e.i.r.p.) for the first 1 MHz segment which shall be recorded.
	Step 6:	Shift the start point of the samples added up in step 5 by one sample and repeat the procedure in step 5 (i.e. sample #2 to #101).
	Step 7:	Repeat step 6 until the end of the data set and record the Power Spectral Density values for each of the 1 MHz segments. From all the recorded results, the highest value is the maximum Power Spectral Density for the UUT. This value, which shall comply with the limit given in clause 4.3.2.3.3, shall be recorded in the test report.
	☐ Option 2:	
	Step 1:	Connect the UUT to the spectrum analyser and use the following settings: - Centre Frequency: The centre frequency of the channel under test - RBW: 1 MHz - VBW: 3 MHz - Frequency Span: 2 × Nominal Bandwidth (e.g. 40 MHz for a 20 MHz channel) - Detector Mode: Peak - Trace Mode: Max Hold
	Step 2:	When the trace is complete, find the peak value of the power envelope and record the frequency.
	Step 3:	Make the following changes to the settings of the spectrum analyser: - Centre Frequency: Equal to the frequency recorded in step 2 - Frequency Span: 3 MHz - RBW: 1 MHz - VBW: 3 MHz - Sweep Time: 1 minute - Detector Mode: RMS - Trace Mode: Max Hold
	Step 4:	Wait until the trace has stabilized, the trace shall be captured using the "Hold" or "View" option on the spectrum analyser. Find the peak value of the trace and place the analyser marker on this peak. This level is recorded as the highest mean power (power spectral density) D in a 1 MHz band. Alternatively, where a spectrum analyser is equipped with a function to measure power spectral density, this function may be used to display the power spectral density D in dBm / MHz. In case of conducted measurements on smart antenna systems operating in a mode with multiple transmit chains active simultaneously, the power spectral density of each transmit chain shall be measured separately to calculate the total power spectral density (value D in dBm / MHz) for the UUT.
	Step 5:	The maximum Power Spectral Density (PSD) e.i.r.p. is calculated from the above measured power spectral density D, the applicable antenna assembly gain G in dBi and if applicable the beamforming gain Y in dB, according to the formula below. This value shall be recorded in the test report. If more than one antenna assembly is intended for this power setting, the gain of the antenna assembly with the highest gain shall be used. PSD = D + G + Y (dBm / MHz)
☐ Refer as EN 300 328, clause 5.4.3.2.2 for radiated measurement.		

3.2.4 Test Setup

Power Spectral Density
 Test conditions: These measurements shall only be performed at normal test conditions.

3.2.5 Test Result of Power Spectral Density

Refer as Appendix B

3.3 Occupied Channel Bandwidth

3.3.1 Occupied Channel Bandwidth Limit

Occupied Channel Bandwidth Limit
Type of Frequency Hopping Equipment:
☐ Occupied Channel Bandwidth for each hopping frequency fall completely within 2.4 GHz – 2.4835 GHz.
☐ For non-adaptive equipment with e.i.r.p greater than 10 dBm, Occupied Channel Bandwidth ≤ 5 MHz.
Type of Equipment Using Wide Band Modulations Other than FHSS:
☒ Occupied Channel Bandwidth fall completely within 2.4 GHz – 2.4835 GHz.
☐ For non-adaptive equipment with e.i.r.p greater than 10 dBm, Occupied Channel Bandwidth ≤ 20 MHz.

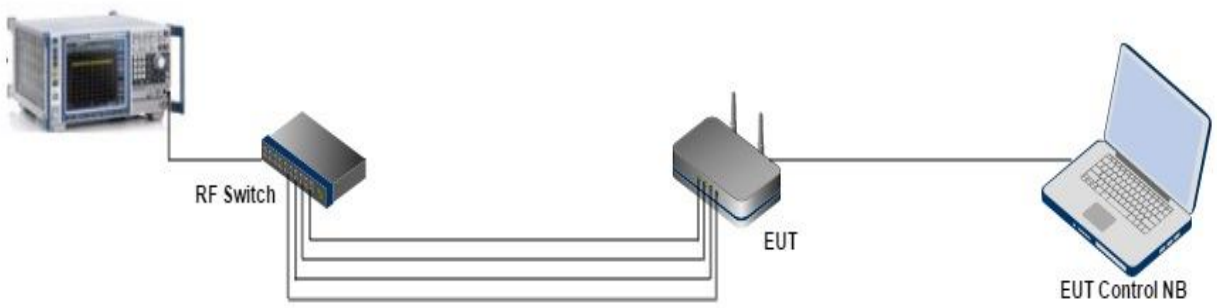
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method
☒ Refer as EN 300 328, clause 5.4.7.2.1 for conducted measurement.
Step 1: Connect the UUT to the spectrum analyzer and use the following settings: - Centre Frequency : The centre frequency of the channel under test. - Resolution BW : ~ 1 % of the span without going below 1 %. - Video BW : 3 × RBW. - Frequency Span : 2 × Occupied Channel Bandwidth (e.g. 40 MHz for a 20 MHz channel) - Detector Mode : RMS. - Trace Mode : Max Hold. - Sweep Time : 1s. Step 2: Wait until the trace is completed. Find the peak value of the trace and place the analyzer marker on this peak. Step 3: Use the 99 % bandwidth function of the spectrum analyzer to measure the Occupied Channel Bandwidth of the UUT ,This value shall be recorded. NOTE: Make sure that the power envelope is sufficiently above the noise floor of the analyzer to avoid the noise signals left and right from the power envelope being taken into account by this measurement.
☐ Refer as EN 300 328, clause 5.4.7.2.2 for radiated measurement.

3.3.4 Test Setup

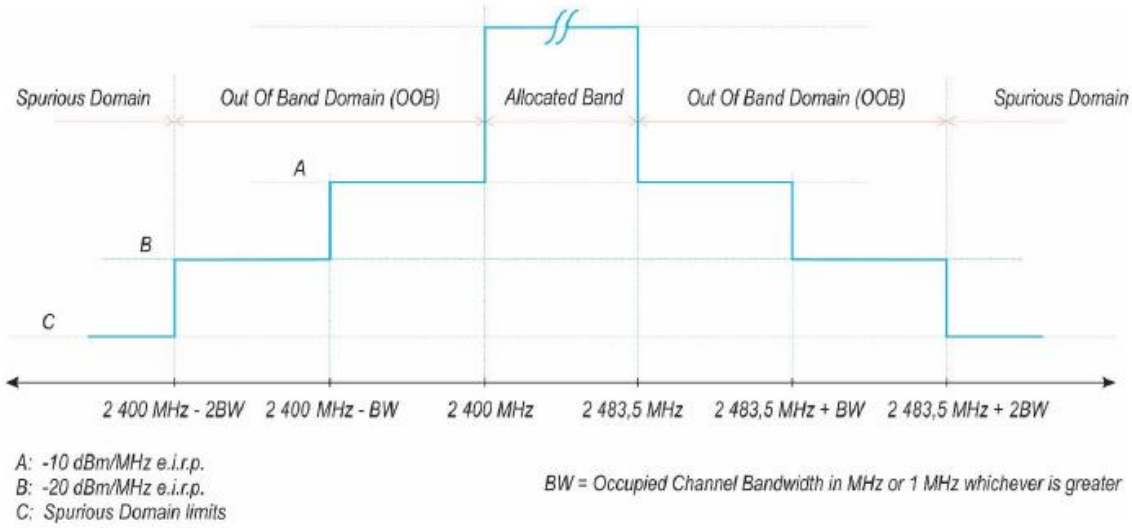
Emission Bandwidth

Test conditions: These measurements shall only be performed at normal test conditions. In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains) measurements need only to be performed on one of the active transmit chains (antenna outputs).

3.3.5 Test Result of Occupied Channel Bandwidth

Refer as Appendix C

3.4 Transmitter Unwanted Emissions in the Out-of-band Domain

3.4.1 Transmitter Unwanted Emissions in the Out-of-band Domain Limit

Transmit Mask Limit


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 EN 300 328, clause 5.4.8.2.1 for conducted measurement.
Step 1: Connect the UUT to the spectrum analyzer and use the following settings: - Centre Frequency : 2 484 MHz - Span : 0 Hz - Resolution BW : 1 MHz - Filter mode : Channel filter - Video BW : 3MHz - Detector Mode : RMS - Trace Mode : Clear / Write - Sweep Mode : Continuous - Sweep Points : Sweep Time [s] / (1 µs) or 5 000 whichever is greater - Trigger Mode : Video trigger - Sweep Time : > 120 % of the duration of the longest burst detected during the measurement of the RF Output Power. NOTE 1: In case video triggering is not possible, an external trigger source may be used.

Step 2: (segment 2 483,5 MHz to 2 483,5 MHz + BW)
- Adjust the trigger level to select the transmissions with the highest power level.
- For frequency hopping equipment operating in a normal hopping mode, the different hops will result in signal bursts with different power levels. In this case the burst with the highest power level shall be selected.
- Set a window (start and stop lines) to match with the start and end of the burst and in which the RMS power shall be measured using the Time Domain Power function.
- Select RMS power to be measured within the selected window and note the result which is the RMS power within this 1 MHz segment (2 483,5 MHz to 2 484,5 MHz). Compare this value with the applicable limit provided by the mask.
- Increase the centre frequency in steps of 1 MHz and repeat this measurement for every 1 MHz segment within the range 2 483,5 MHz to 2 483,5 MHz + BW. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + BW - 0,5 MHz (which means this may partly overlap with the previous 1 MHz segment).

Step 3: (segment 2 483,5 MHz + BW to 2 483,5 MHz + 2BW)
- Change the centre frequency of the analyzer to 2 484 MHz + BW and perform the measurement for the first 1 MHz segment within range 2 483,5 MHz + BW to 2 483,5 MHz + 2BW. Increase the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 483,5 MHz + 2 BW - 0,5 MHz.

Step 4: (segment 2 400 MHz - BW to 2 400 MHz)
- Change the centre frequency of the analyzer to 2 399,5 MHz and perform the measurement for the first 1 MHz segment within range 2 400 MHz - BW to 2 400 MHz Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.

Step 5: (segment 2 400 MHz - 2BW to 2 400 MHz - BW)
- Change the centre frequency of the analyzer to 2 399,5 MHz - BW and perform the measurement for the first 1 MHz segment within range 2 400 MHz - 2BW to 2 400 MHz - BW. Reduce the centre frequency in 1 MHz steps and repeat the measurements to cover this whole range. The centre frequency of the last 1 MHz segment shall be set to 2 400 MHz - 2BW + 0,5 MHz.

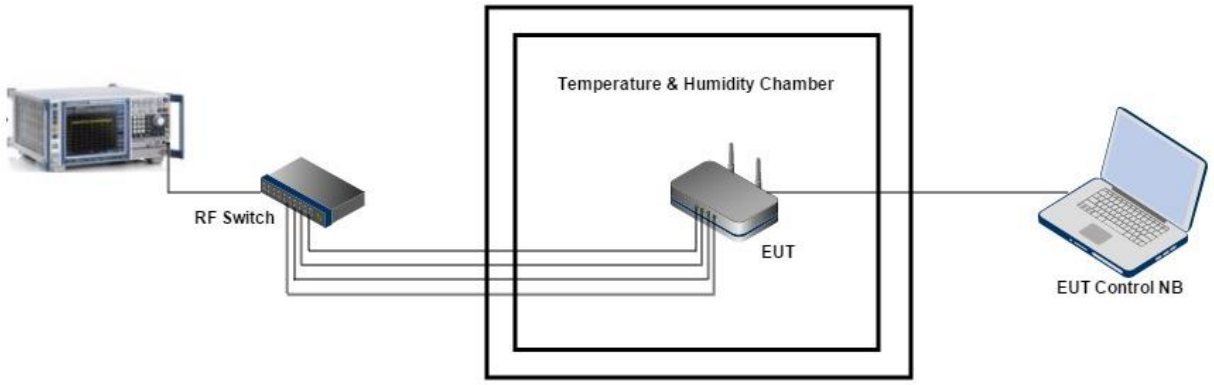
Step 6:
- In case of conducted measurements on equipment with a single transmit chain, the declared antenna assembly gain "G" in dBi shall be added to the results for each of the 1 MHz segments and compared with the limits provided by the mask given in figures 1 or 3. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered.
- In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the measurements need to be repeated for each of the active transmit chains. The declared antenna assembly gain "G" in dBi for a single antenna shall be added to these results. If more than one antenna assembly is intended for this power setting, the antenna with the highest gain shall be considered. Comparison with the applicable limits shall be done using any of the options given below:
  - •Option 1: the results for each of the transmit chains for the corresponding 1 MHz segments shall be added. The additional beamforming gain "Y" in dB shall be added as well and the resulting values compared with the limits provided by the mask given in figures 1 or 3.
  - •Option 2: the limits provided by the mask given in figures 1 or 3 shall be reduced by 10 x log10(Ach) and the additional beamforming gain "Y" in dB. The results for each of the transmit chains shall be individually compared with these reduced limits.

NOTE 2: Ach refers to the number of active transmit chains.It shall be recorded whether the equipment complies with the mask provided in figures 1 or 3.

☐ Refer as EN 300 328, clause 5.4.8.2.2 for radiated measurement.

3.4.4 Test Setup

Transmitter Unwanted Emissions in the Out-of-band Domain



Test conditions:
These measurements have to be performed at normal environmental conditions.

3.4.5 Test Result of Transmitter Unwanted Emissions in the Out-of-band Domain

Refer as Appendix D

3.5 Transmitter Unwanted Emissions in the Spurious Domain

3.5.1 Transmitter Unwanted Emissions in the Spurious Domain Limit

Frequency Range	Maximum Power	Bandwidth
30 MHz to 47 MHz	-36 dBm	100 kHz
47 MHz to 74 MHz	-54 dBm	100 kHz
74 MHz to 87,5 MHz	-36 dBm	100 kHz
87,5 MHz to 118 MHz	-54 dBm	100 kHz
118 MHz to 174 MHz	-36 dBm	100 kHz
174 MHz to 230 MHz	-54 dBm	100 kHz
230 MHz to 470 MHz	-36 dBm	100 kHz
470 MHz to 694 MHz	-54 dBm	100 kHz
694 MHz to 1 GHz	-36 dBm	100 kHz
1 GHz to 12,75 GHz	-30 dBm	1 MHz
Note 1: spurious domain ≤ (2400 MHz – 2N) and spurious domain ≥ (2483.5 MHz + 2N); N = MAX (1, Occupied Channel Bandwidth) MHz		

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

Test Method
☐ Refer as EN 300 328, clause 5.4.9.2.1 for conducted measurement. Conducted spurious emissions and radiated by the cabinet with the antenna connector(s) terminated by a specified load (cabinet radiation).
☒ Refer as EN 300 328, clause 5.4.9.2.2 for radiated measurement.

Pre-scan: The test procedure below shall be used to identify potential unwanted emissions of the UUT.

Step 1: The sensitivity of the spectrum analyzer should be such that the noise floor is at least 12 dB below the limits given in tables 4 or 12.

Step 2: The emissions over the range 30 MHz to 1 000 MHz shall be identified.
Spectrum analyzer settings :
- Resolution bandwidth : 100 kHz
- Video bandwidth : 300 kHz
- Detector mode : Peak
- Filter type : 3 dB (Gaussian)
- Trace Mode : Max Hold
- Sweep Points : ≥ 19 400

NOTE 1: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented.
- Sweep time:
  - •For non-continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 100 kHz frequency step, the measurement time is greater than two transmissions of the UUT.
  - •For Frequency Hopping equipment operating in a normal operating (hopping not disabled) mode, the sweep time shall be further increased to capture multiple transmissions on the same hopping frequency in different hopping sequences.

Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.4.9.2.1.3 and compared to the limits given in tables 4 or 12.

Step 3: The emissions over the range 1 GHz to 12,75 GHz shall be identified.
Spectrum analyzer settings:
- Resolution bandwidth : 1 MHz
- Video bandwidth : 3 MHz
- Filter type : 3 dB (Gaussian)
- Detector mode : Peak
- Trace Mode : Max Hold
- Sweep Points : ≥ 23 500

NOTE 2: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented.
- Sweep time:
  - •For non-continuous transmissions (duty cycle less than 100 %), the sweep time shall be sufficiently long, such that for each 1 MHz frequency step, the measurement time is greater than two transmissions of the UUT.
  - •For Frequency Hopping equipment operating in a normal operating (hopping not disabled) mode, the sweep time shall be further increased to capture multiple transmissions on the same hopping frequency in different hopping sequences.

Allow the trace to stabilize. Any emissions identified during the sweeps above that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.4.9.2.1.3 and compared to the limits given in tables 4 or 12.
Frequency Hopping equipment may generate a block (or several blocks) of spurious emissions anywhere within the spurious domain. If this is the case, only the highest peak of each block of emissions shall be measured using the procedure in clause 5.4.9.2.1.3.

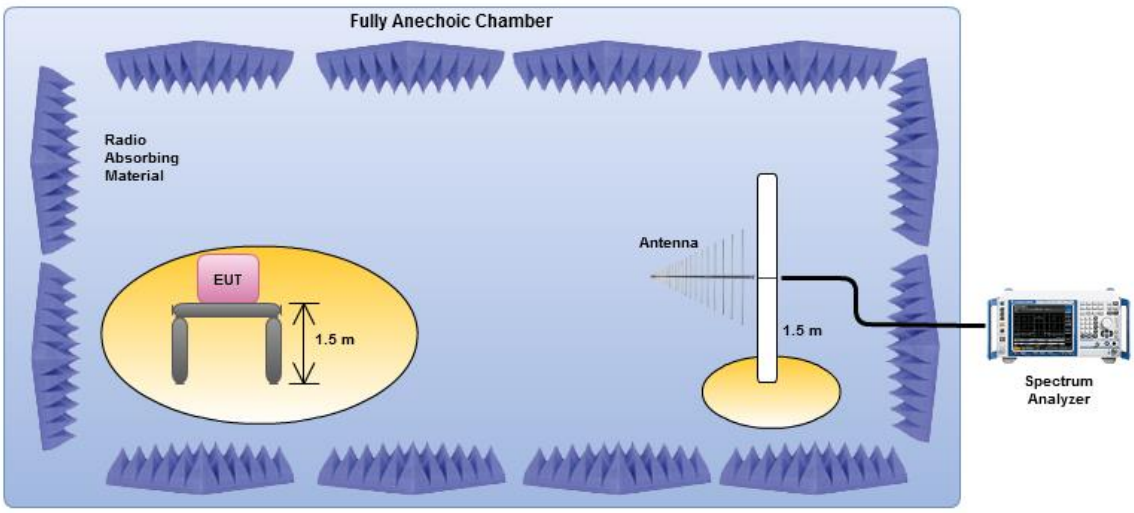
Step 4:	In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the steps 2 and 3 need to be repeated for each of the active transmit chains (Ach).The limits used to identify emissions during this pre-scan need to be reduced with 10 × log10 (Ach) (number of active transmit chains).

Measurement of the emissions identified during the pre-scan

Step 1:	The level of the emissions shall be measured using the following spectrum analyzer settings: - Measurement Mode : Time Domain Power - Centre Frequency : Frequency of emission identified during the pre-scan - Resolution Bandwidth : 100 kHz (< 1 GHz) / 1 MHz (> 1 GHz) - Video Bandwidth : 300 kHz (< 1 GHz) / 3 MHz (> 1 GHz) - Frequency Span : Zero Span - Sweep mode : Single Sweep - Sweep time : >120 % of the duration of the longest burst detected during the measurement of the RF Output Power - Sweep points : Sweep time [µs] / (1 µs) with a maximum of 30 000 - Trigger : Video (burst signals) or Manual (continuous signals) - Detector : RMS
Step 2:	Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to match the start and stop times of the sweep.
Step 3:	In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), step 2 needs to be repeated for each of the active transmit chains (Ach). Sum the measured power (within the observed window) for each of the active transmit chains.
Step 4:	The value defined in step 3 shall be compared to the limits defined in tables 4 or 12.

3.5.4 Test Setup

Transmitter Unwanted Emissions in the Spurious Domain



Test conditions:
These measurements shall only be performed at normal test conditions.
A measuring distance of at least 3 m shall be used for measurements at frequencies up to 1 GHz. For frequencies above 1 GHz, any suitable measuring far field distance may be used, depending on the test system noise floor for detecting spurious emission signals. The equipment size (excluding the antenna) shall be less than 20 % of the measuring distance. The height of the equipment or of the substitution antenna shall be 1.5 m.

3.5.5 Transmitter Radiated Unwanted Emissions

Refer as Appendix E

4 Receiver Test Result

4.1 Receiver Spurious Emissions

4.1.1 Receiver Spurious Emissions Limit

Frequency Range	Maximum Power	Bandwidth
30 MHz to 1 GHz	-57 dBm	100 kHz
1 GHz to 12,75 GHz	-47 dBm	1 MHz

4.1.2 Measuring Instruments

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

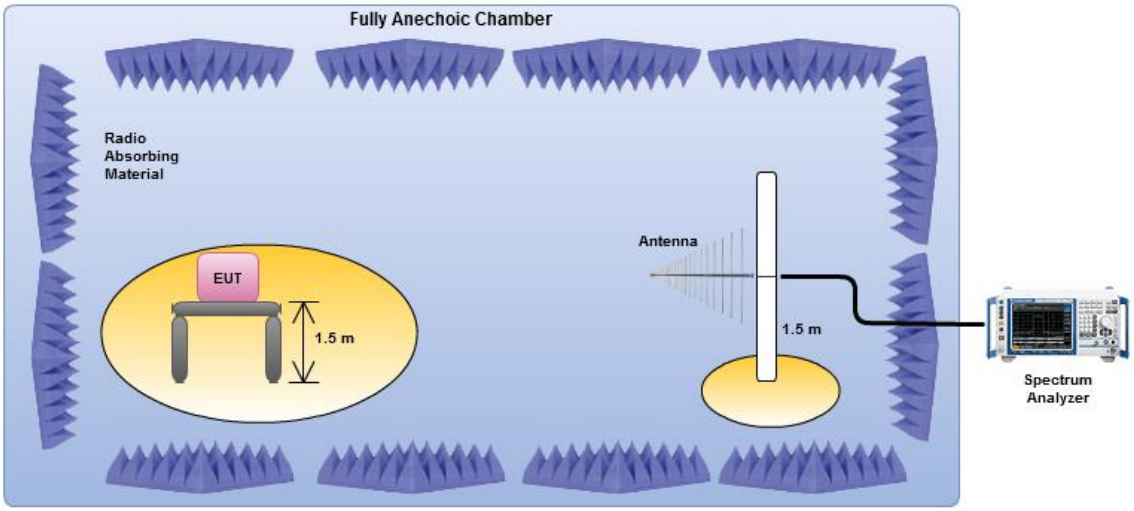
4.1.3 Test Procedures

Test Method
☐ Refer as EN 300 328, clause 5.4.10.2.1 for conducted measurement. Conducted spurious emissions and radiated by the cabinet with the antenna connector(s) terminated by a specified load (cabinet radiation).
☒ Refer as EN 300 328, clause 5.4.10.2.2 for radiated measurement.
Pre-scan: The test procedure below shall be used to identify potential unwanted emissions of the UUT. Step 1: The sensitivity of the spectrum analyzer should be such that the noise floor is at least 12 dB below the limits given in tables 5 or 13. Step 2: The emissions over the range 30 MHz to 1 000 MHz shall be identified. Spectrum analyzer settings : - Resolution bandwidth : 100 kHz - Video bandwidth : 300 kHz - Filter type : 3 dB (Gaussian) - Detector mode : Peak - Trace Mode : Max Hold - Sweep Points : ≥ 19 400 NOTE 1: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented. - Sweep time : Auto Allow the trace to stabilize. Any emissions identified during the sweeps above and that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.4.10.2.1.3 and compared to the limits given in tables 5 or 13.

Step 3:	The emissions over the range 1 GHz to 12,75 GHz shall be identified. Spectrum analyzer settings: - Resolution bandwidth : 1 MHz - Video bandwidth : 3 MHz - Filter type : 3 dB (Gaussian) - Detector mode : Peak - Trace Mode : Max Hold - Sweep Points : ≥ 23 500 NOTE 2: For spectrum analyzers not supporting this high number of sweep points, the frequency band may need to be segmented. - Sweep time: Auto Allow the trace to stabilize. Any emissions identified during the sweeps above that fall within the 6 dB range below the applicable limit or above, shall be individually measured using the procedure in clause 5.4.10.2.1.3 and compared to the limits given in tables 5 or 13. Frequency Hopping equipment may generate a block (or several blocks) of spurious emissions anywhere within the spurious domain. If this is the case, only the highest peak of each block of emissions shall be measured using the procedure in clause 5.4.10.2.1.3.
Step 4:	In case of conducted measurements on smart antenna systems (equipment with multiple transmit chains), the steps 2 and 3 need to be repeated for each of the active transmit chains (Ach).The limits used to identify emissions during this pre-scan need to be reduced with 10 × log10 (Ach) (number of active transmit chains).
	Measurement of the emissions identified during the pre-scan
Step 1:	The level of the emissions shall be measured using the following spectrum analyzer settings: - Measurement Mode : Time Domain Power - Centre Frequency : Frequency of emission identified during the pre-scan - Resolution Bandwidth : 100 kHz (< 1 GHz) / 1 MHz (> 1 GHz) - Video Bandwidth : 300 kHz (< 1 GHz) / 3 MHz (> 1 GHz) - Frequency Span : Zero Span - Sweep mode : Single Sweep - Sweep time : 30 ms - Sweep Point : ≥ 30 000 - Trigger : Video (for burst signals) or Manual (for continuous signals) - Detector : RMS
Step 2:	Set a window where the start and stop indicators match the start and end of the burst with the highest level and record the value of the power measured within this window. If the spurious emission to be measured is a continuous transmission, the measurement window shall be set to the start and stop times of the sweep.
Step 3:	In case of conducted measurements on smart antenna systems (equipment with multiple receive chains), step 2 needs to be repeated for each of the active receive chains (Ach). Sum the measured power (within the observed window) for each of the active receive chains
Step 4:	The value defined in step 3 shall be compared to the limits defined in tables 5 and 13.

4.1.4 Test Setup

Receiver Spurious Emissions



Test conditions:
These measurements shall only be performed at normal test conditions.
A measuring distance of at least 3 m shall be used for measurements at frequencies up to 1 GHz. For frequencies above 1 GHz, any suitable measuring far field distance may be used, depending on the test system noise floor for detecting spurious emission signals. The equipment size (excluding the antenna) shall be less than 20 % of the measuring distance. The height of the equipment or of the substitution antenna shall be 1.5 m.

4.1.5 Receiver Radiated Spurious Emissions

Refer as Appendix F

5 Adaptivity Test Result

5.1 Adaptivity

5.1.1 Adaptivity Limit

Adaptivity Limit
☒ Only for adaptive systems and RF Output Power > 10 dBm
☐ Non-LBT based Detect and Avoid: ◆ Minimum remain unavailable = 1sec; ◆ Minimum Idle Period time = 100us; ◆ Maximum COT = 40ms ◆ i.e. COT [40ms] + Idle Period [2ms - 5% of COT]; N x [COT+Idle]; ◆ TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)
☐ LBT based Detect and Avoid (Frame Based Equipment): ◆ Minimum Clear Channel Assessment (CCA) time > 18 us; ◆ Maximum COT = 1 ms to 10 ms ◆ Minimum of Idle period Time > 5% of COT ◆ e.g. CCA [120us] + COT [10ms] + Idle Period [0.5ms - 5% of COT]; ◆ TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)
☒ LBT based Detect and Avoid (Load Based Equipment with spectrum sharing mechanism IEEE Std.): ◆ LBT based spectrum sharing mechanism may implement IEEE 802.11™ [i.3], clause 10, clause 11, clause 15, clause 16, clause 18 and clause 19, or in IEEE 802.15.4™ [i.4], clause 5, clause 6 and clause 10 TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)
☐ LBT based Detect and Avoid (Load Based Equipment): ◆ Minimum Clear Channel Assessment (CCA) time >18 us; ◆ Maximum COT ≤ 13ms; ◆ Minimum of Idle period Time >18 us; TL = -70 dBm/MHz + 10 × log10 (100 mW / Pout) (Pout in mW e.i.r.p.)
☒ Short Control Signaling Transmissions: ◆ Short Control Signaling Transmissions shall have a maximum duty cycle of 10 % within an observation period of 50 ms.

Unwanted Signal Parameters				
Equipment Type	**Wanted Signal Mean Power from Companion Device**	**Unwanted Signal Frequency (MHz)**	**Unwanted Signal Mean power (dBm)**	**Type of Interfering Signal**
LBT	sufficient to maintain the link (see note 2)	2395 or 2488,5 (see note 1)	-35 (see note 3)	CW
Non-LBT	-30 dBm			
Note 1: The highest frequency shall be used for testing operating channels within the range 2 400 MHz to 2442 MHz, while the lowest frequency shall be used for testing operating channels within the range 2 442 MHz to 2 483,5 MHz. Note 2: A typical value which can be used in most cases is -50 dBm/MHz. Note 3: The level specified is the level in front of the UUT antenna. In case of conducted measurements, this level has to be corrected by the actual antenna assembly gain.				

5.1.2 Measuring Instruments

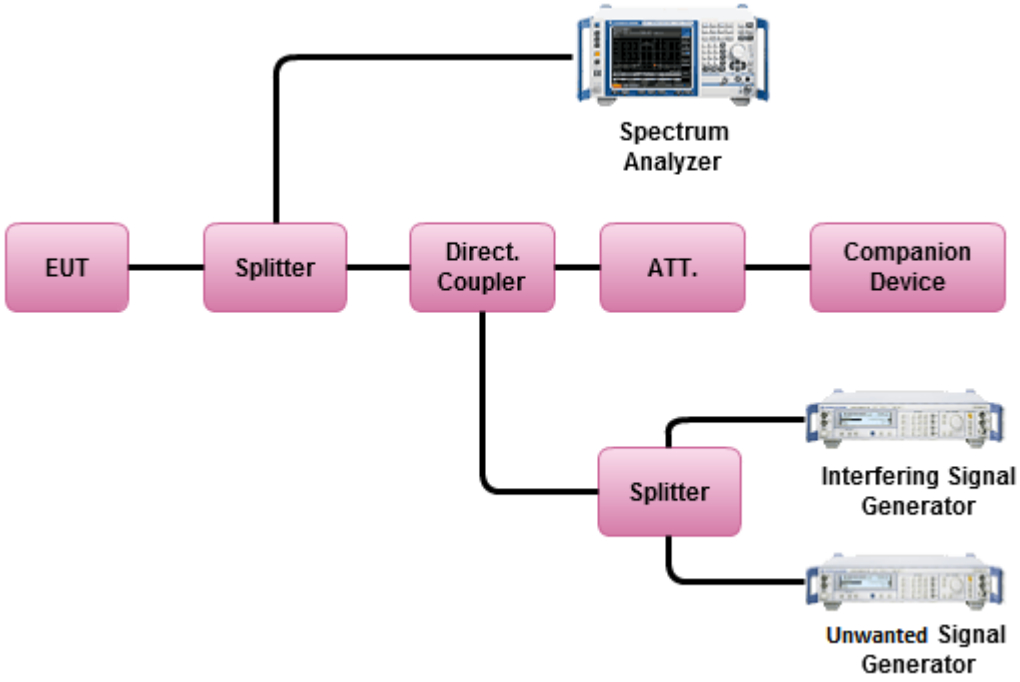
Refer a test equipment and calibration data table in this test report.

5.1.3 Test Procedures

Test Method	
☒	Refer as EN 300 328, clause 5.4.6.2.1 for conducted measurement.
	☒ For conducted measurements on devices with multiple transmit chains and receive chains. The power splitter/combiner shall be used to combine all the transmit/receive chains (antenna outputs) into a single test point. The insertion loss of the power splitter/combiner shall be taken into account.
☐	Refer as EN 300 328, clause 5.4.6.2.2 for radiated measurement.

5.1.4 Test Setup

Adaptivity



5.1.5 Test Result of Adaptivity

Refer as Appendix G

6 Receiver Blocking Test Result

6.1 Receiver Blocking

6.1.1 Receiver Blocking Limit

Receiver Blocking Limit
☒ Receiver Category 1: Adaptive equipment with a maximum RF output power greater than 10 dBm e.i.r.p. shall be considered as receiver category 1 equipment.
☐ Receiver Category 2: Non-adaptive equipment with a Medium Utilization (MU) factor greater than 1 % and less than or equal to 10 % or adaptive equipment with a maximum RF output power of 10 dBm e.i.r.p. shall be considered as receiver category 2 equipment.
☐ Receiver Category 3: Non-adaptive equipment with a maximum Medium Utilization (MU) factor of 1 % or adaptive equipment with a maximum RF output power of 0 dBm e.i.r.p. shall be considered as receiver category 3 equipment.

Table 1: Receiver Blocking Parameters for Receiver Category 1 Equipment

Wanted signal mean power from companion device (dBm) (see notes 1 and 4)	Blocking signal frequency (MHz)	Blocking signal power (dBm) (see note 2)	Type of blocking signal
(-133 dBm + 10 × $\log_{10}$(OCBW)) or -68 dBm whichever is less (see note 2)	2 380 2 504	-34	CW
(-139 dBm + 10 × $\log_{10}$(OCBW)) or -74 dBm whichever is less (see note 3)	2 300, 2 330 2 360, 2 524 2 584, 2 674		

NOTE 1: OCBW is in Hz.
NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 3: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 20 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal.
NOTE 4: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.

Table 2: Receiver Blocking Parameters for Receiver Category 2 Equipment			
Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	**Blocking signal frequency (MHz)**	**Blocking signal power (dBm) (see note 2)**	**Type of blocking signal**
(-139 dBm + 10 × $\log_{10}$(OCBW) + 10 dB) or (-74 dBm + 10 dB) whichever is less (see note 2)	2 380, 2 504 2 300, 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 26 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

Table 3: Receiver Blocking Parameters for Receiver Category 3 Equipment			
Wanted signal mean power from companion device (dBm) (see notes 1 and 3)	**Blocking signal frequency (MHz)**	**Blocking signal power (dBm)** (see note 2)	**Type of blocking signal**
(-139 dBm + 10 × $\log_{10}$(OCBW) + 20 dB) or (-74 dBm + 20 dB) whichever is less (see note 2)	2 380, 2 504 2 300, 2 584	-34	CW
NOTE 1: OCBW is in Hz. NOTE 2: In case of radiated measurements using a companion device and the level of the wanted signal from the companion device cannot be determined, a relative test may be performed using a wanted signal up to Pmin + 30 dB where Pmin is the minimum level of wanted signal required to meet the minimum performance criteria as defined in clause 4.3.1.12.3 in the absence of any blocking signal. NOTE 3: The level specified is the level at the UUT receiver input assuming a 0 dBi antenna assembly gain. In case of conducted measurements, this level has to be corrected for the (in-band) antenna assembly gain (G). In case of radiated measurements, this level is equivalent to a power flux density (PFD) in front of the UUT antenna with the UUT being configured/positioned as recorded in clause 5.4.3.2.2.			

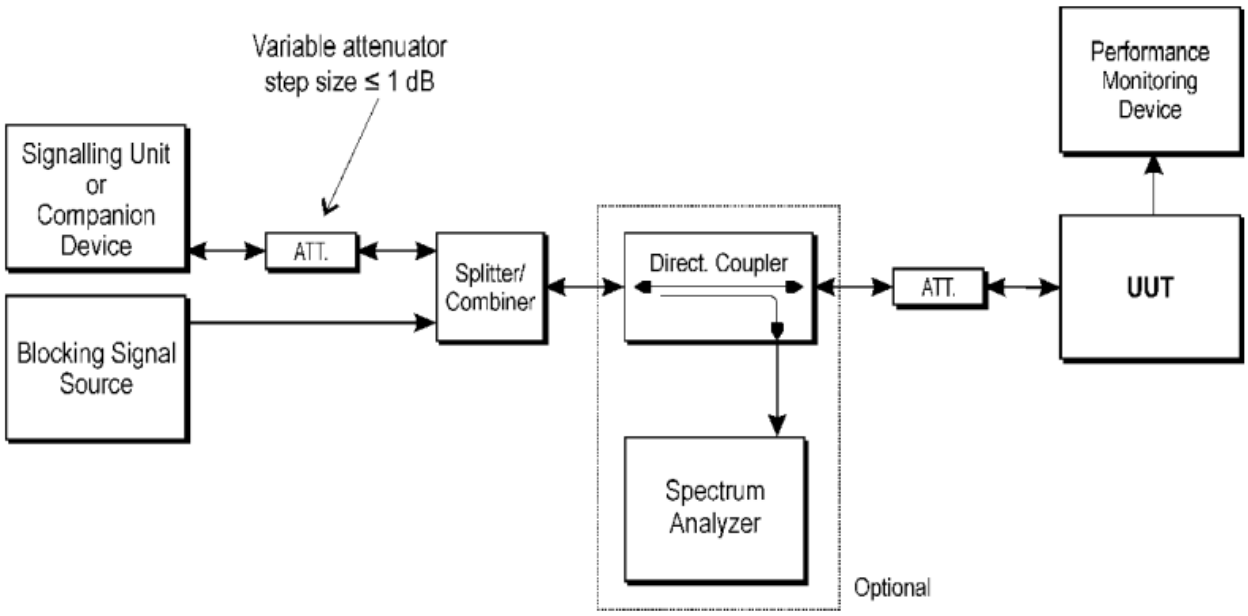
6.1.2 Measuring Instruments

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

6.1.3 Test Procedures

Test Method	
☒ Refer as EN 300 328, clause 5.4.11.2.1 for conducted measurement.	
	☒ For systems using multiple receive chains only one chain (antenna port) need to be tested. All other receiver inputs shall be terminated. For non-frequency hopping equipment, the UUT shall be set to the lowest operating channel.
	Step 1 The blocking signal generator is set to the first frequency as defined in the appropriate table corresponding to the receiver category and type of equipment.
	Step 2 With the blocking signal generator switched off, a communication link is established between the UUT and the associated companion device using the test setup shown in figure 6. Unless the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the level of the wanted signal shall be set to the value provided in the table corresponding to the receiver category and type of equipment. The test procedure defined in clause 5.4.2, and more in particular clause 5.4.2.2.1.2, can be used to measure the (conducted) level of the wanted signal however no correction shall be made for antenna gain of the companion device (step 6 in clause 5.4.2.2.1.2 shall be ignored). This level may be measured directly at the output of the companion device and a correction is made for the coupling loss into the UUT. The actual level for the wanted signal shall be recorded in the test report. When the option provided in note 2 of the applicable table referred to in clause 5.4.11.2.1 is used, the attenuation of the variable attenuator shall be increased in 1 dB steps to a value at which the minimum performance criteria as specified in clause 4.3.1.12.3 or clause 4.3.2.11.3 is still met. The resulting level for the wanted signal at the input of the UUT is Pmin. This signal level (Pmin) is increased by the value provided in note 2 of the applicable table corresponding to the receiver category and type of equipment.
	Step 3 The blocking signal at the UUT is set to the level provided in the table corresponding to the receiver category and type of equipment.
	Step 4 Repeat step 2 and step 3 for each remaining combination of frequency and level for the blocking signal as provided in the table corresponding to the receiver category and type of equipment. For non-FHSS equipment, repeat step 2 to step 4 with the UUT operating at the highest operating channel on which the blocking test has to be performed (see clause 5.4.11.1). It shall be assessed and recorded in the test report whether the UUT complies with the Receiver Blocking requirement.
☐ Refer as EN 300 328, clause 5.4.11.2.2 for radiated measurement.	

6.1.4 Test Setup



6.1.5 Test Result of Receiver Blocking

Refer as Appendix H

7 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101013	10Hz~40GHz	10/Apr/2023	09/Apr/2024
Programmable Temp. & Humi. Chamber	Giant Force	GTH-225-20-SP-SD	MAA1112-007	-20~100℃	17/May/2023	16/May/2024
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
USB Wideband Power Sensor	Agilent	U2021XA	MY54320011	50MHz~18GHz	17/Aug/2022	16/Aug/2023
USB Wideband Power Sensor	Agilent	U2021XA	MY54320013	50MHz~18GHz	17/Aug/2022	16/Aug/2023
SENSE-300328_DTS	Sporton	V5.11.3	N/A	N/A	N/A	N/A

Instrument for Radiated Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV40	101514	10Hz~40GHz	26/Apr/2023	25/Apr/2024
Amplifier	Agilent	8447D	2944A11146	100kHz~1.3GHz	01/Sep/2022	31/Aug/2023
Microwave Preamplifier	EMC INSTRUMENT	EMC051845BE	980241	1GHz~18GHz	12/Dec/2022	11/Dec/2023
Bilog Antenna & 6dB Attenuator	SCHAFFNER	CBL6111C & N-6-06	2737 & AT-N0603	30MHz~1GHz	28/Aug/2022	27/Aug/2023
Double Ridged Guide Horn Antenna	ETS・LINDGREN	3117	00091920	1GHz~18GHz	15/Dec/2022	14/Dec/2023
RF Cable	HUBER+SUHNER	SUOFLEX 104	05CH01-cable-01	1GHz ~ 40GHz	17/Jan/2023	16/Jan/2024
RF Cable	Jye Bao	SUOFLEX 104	05CH01-cable-02	25MHz ~ 1GHz	06/Sep/2022	05/Sep/2023
SENSE-300328_DTS	Sporton	V5.11.4	N/A	N/A	N/A	N/A

Instrument for Adaptivity Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Generator	Keysight	N5171B	MY53051240	9kHz~6GHz	24/Nov/2022	23/Nov/2023
Vector Signal Generator	Keysight	N5182B	MY53051912	9kHz~6GHz	18/Mar/2023	17/Mar/2024
Spectrum Analyzer	R&S	FSP30	100793	9 kHz ~ 30GHz	14/Jun/2023	13/Jun/2024
DFS-Adaptivity	Sporton	Ver 2.7	N/A	N/A	N/A	N/A
Adaptivity Analysis-5G	Sporton	Ver 2.8	N/A	N/A	N/A	N/A

Instrument for Receiver Blocking Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Wireless connectivity tester	R&S	CMW270+CMW-Z800A	102633+100394	70MHz ~7.125GHz	22/Mar/2022	21/Mar/2024

Summary

Mode	EIRP (dBm)	EIRP (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	19.72	0.09376
802.11g_Nss1,(6Mbps)_2TX	19.95	0.09886
802.11ax HEW20_Nss1,(MCS0)_2TX	19.97	0.09931
802.11ax HEW40_Nss1,(MCS0)_2TX	19.89	0.09750

Result

Mode	Result	Gain (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	10.30	11.69	14.06	19.06	20.00
2412MHz_Tmin	Pass	5.00	11.90	11.51	14.72	19.72	20.00
2412MHz_Tmax	Pass	5.00	5.15	4.36	7.78	12.78	20.00
2442MHz_Tnom	Pass	5.00	11.30	10.77	14.05	19.05	20.00
2442MHz_Tmin	Pass	5.00	11.40	11.08	14.25	19.25	20.00
2442MHz_Tmax	Pass	5.00	4.28	3.29	6.82	11.82	20.00
2472MHz_Tnom	Pass	5.00	11.51	10.80	14.18	19.18	20.00
2472MHz_Tmin	Pass	5.00	11.77	10.92	14.38	19.38	20.00
2472MHz_Tmax	Pass	5.00	4.39	3.26	6.87	11.87	20.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	12.24	11.49	14.89	19.89	20.00
2412MHz_Tmin	Pass	5.00	12.29	11.56	14.95	19.95	20.00
2412MHz_Tmax	Pass	5.00	4.85	4.30	7.59	12.59	20.00
2442MHz_Tnom	Pass	5.00	11.61	11.50	14.57	19.57	20.00
2442MHz_Tmin	Pass	5.00	11.83	11.64	14.75	19.75	20.00
2442MHz_Tmax	Pass	5.00	4.27	4.35	7.32	12.32	20.00
2472MHz_Tnom	Pass	5.00	11.83	11.30	14.58	19.58	20.00
2472MHz_Tmin	Pass	5.00	11.94	11.37	14.67	19.67	20.00
2472MHz_Tmax	Pass	5.00	4.62	3.92	7.29	12.29	20.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	11.84	10.95	14.43	19.43	20.00
2412MHz_Tmin	Pass	5.00	12.00	11.19	14.62	19.62	20.00
2412MHz_Tmax	Pass	5.00	4.39	3.83	7.13	12.13	20.00
2442MHz_Tnom	Pass	5.00	11.58	11.46	14.53	19.53	20.00
2442MHz_Tmin	Pass	5.00	11.97	11.78	14.89	19.89	20.00
2442MHz_Tmax	Pass	5.00	4.19	4.35	7.28	12.28	20.00
2472MHz_Tnom	Pass	5.00	11.97	11.44	14.72	19.72	20.00
2472MHz_Tmin	Pass	5.00	12.16	11.74	14.97	19.97	20.00
2472MHz_Tmax	Pass	5.00	4.69	4.04	7.39	12.39	20.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_Tnom	Pass	5.00	11.93	11.44	14.70	19.70	20.00
2422MHz_Tmin	Pass	5.00	12.01	11.48	14.76	19.76	20.00
2422MHz_Tmax	Pass	5.00	4.93	4.47	7.72	12.72	20.00
2442MHz_Tnom	Pass	5.00	11.71	11.53	14.63	19.63	20.00
2442MHz_Tmin	Pass	5.00	11.87	11.73	14.81	19.81	20.00
2442MHz_Tmax	Pass	5.00	4.65	4.30	7.49	12.49	20.00
2462MHz_Tnom	Pass	5.00	12.13	11.61	14.89	19.89	20.00
2462MHz_Tmin	Pass	5.00	12.09	11.51	14.82	19.82	20.00
2462MHz_Tmax	Pass	5.00	4.90	4.02	7.49	12.49	20.00

Port X = Port X output power; Total Power = Total power measure all transmit ports simultaneously.

Summary

Mode	EIRP (dBm)	EIRP (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	19.94	0.09863
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	19.81	0.09572

Result

Mode	Result	Gain (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	EIRP (dBm)	EIRP Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	8.01	8.75	7.86	11.34	19.35	20.00
2412MHz_Tmin	Pass	8.01	8.94	8.13	11.56	19.57	20.00
2412MHz_Tmax	Pass	8.01	1.31	0.75	4.05	12.06	20.00
2442MHz_Tnom	Pass	8.01	8.49	8.37	11.44	19.45	20.00
2442MHz_Tmin	Pass	8.01	8.90	8.71	11.82	19.83	20.00
2442MHz_Tmax	Pass	8.01	1.09	1.25	4.18	12.19	20.00
2472MHz_Tnom	Pass	8.01	8.92	8.39	11.67	19.68	20.00
2472MHz_Tmin	Pass	8.01	9.12	8.70	11.93	19.94	20.00
2472MHz_Tmax	Pass	8.01	1.64	0.99	4.34	12.35	20.00
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_Tnom	Pass	8.01	8.83	8.34	11.60	19.61	20.00
2422MHz_Tmin	Pass	8.01	8.96	8.43	11.71	19.72	20.00
2422MHz_Tmax	Pass	8.01	1.84	1.38	4.63	12.64	20.00
2442MHz_Tnom	Pass	8.01	8.69	8.51	11.61	19.62	20.00
2442MHz_Tmin	Pass	8.01	8.77	8.63	11.71	19.72	20.00
2442MHz_Tmax	Pass	8.01	1.55	1.20	4.39	12.40	20.00
2462MHz_Tnom	Pass	8.01	9.04	8.52	11.80	19.81	20.00
2462MHz_Tmin	Pass	8.01	9.03	8.45	11.76	19.77	20.00
2462MHz_Tmax	Pass	8.01	1.81	0.93	4.40	12.41	20.00

Port X = Port X output power; Total Power = Total power measure all transmit ports simultaneously.

Summary

Mode	EIRP PD (dBm/MHz)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	9.93
802.11g_Nss1,(6Mbps)_2TX	7.78
802.11ax HEW20_Nss1,(MCS0)_2TX	6.79
802.11ax HEW40_Nss1,(MCS0)_2TX	4.87

RBW=1MHz

Result

Mode	Result	Gain (dBi)	PD (dBm/MHz)	EIRP PD (dBm/MHz)	EIRP PD Limit (dBm/MHz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	4.92	9.92	10.00
2442MHz_Tnom	Pass	5.00	4.90	9.90	10.00
2472MHz_Tnom	Pass	5.00	4.93	9.93	10.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	2.55	7.55	10.00
2442MHz_Tnom	Pass	5.00	2.78	7.78	10.00
2472MHz_Tnom	Pass	5.00	2.39	7.39	10.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	5.00	1.63	6.63	10.00
2442MHz_Tnom	Pass	5.00	1.64	6.64	10.00
2472MHz_Tnom	Pass	5.00	1.79	6.79	10.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-
2422MHz_Tnom	Pass	5.00	-0.30	4.70	10.00
2442MHz_Tnom	Pass	5.00	-0.13	4.87	10.00
2462MHz_Tnom	Pass	5.00	-0.39	4.61	10.00

RBW=1MHz;
Port X = Port X power density;

Summary

Mode	OBW (Hz)	ITU-Code
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	12.874M	12M9G1D
802.11g_Nss1,(6Mbps)_2TX	16.672M	16M7D1D
802.11ax HEW20_Nss1,(MCS0)_2TX	19.03M	19M0D1D
802.11ax HEW40_Nss1,(MCS0)_2TX	38.061M	38M1D1D

OBW = 99% occupied bandwidth

Result

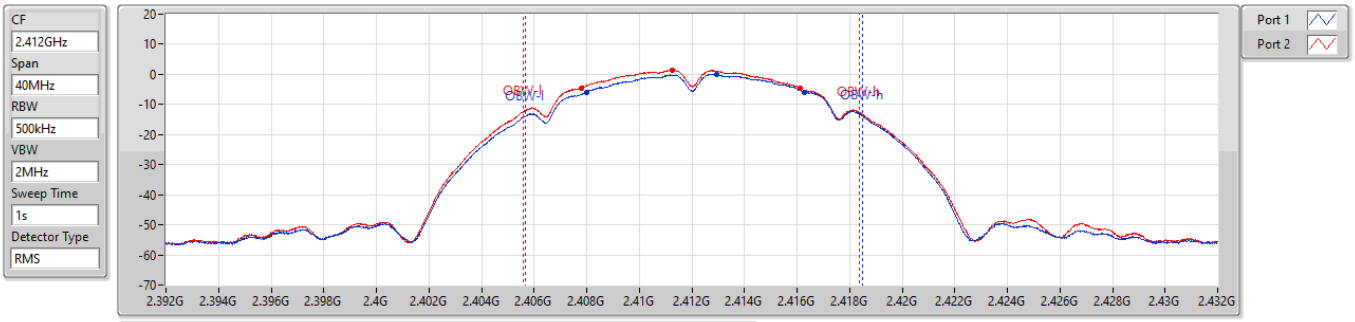
Mode	Result	Limit (Hz)	fl-OBW (Hz)	fh-OBW (Hz)	OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.405603G	2.418477G	12.814M
2442MHz_Tnom	Pass	2.4-2.4835G	2.435563G	2.448517G	12.874M
2472MHz_Tnom	Pass	2.4-2.4835G	2.465583G	2.478517G	12.854M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.403704G	2.420376G	16.672M
2442MHz_Tnom	Pass	2.4-2.4835G	2.433664G	2.450336G	16.632M
2472MHz_Tnom	Pass	2.4-2.4835G	2.463664G	2.480356G	16.672M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-
2412MHz_Tnom	Pass	2.4-2.4835G	2.402485G	2.421535G	19.03M
2442MHz_Tnom	Pass	2.4-2.4835G	2.432485G	2.451535G	19.01M
2472MHz_Tnom	Pass	2.4-2.4835G	2.462485G	2.481575G	19.03M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-
2422MHz_Tnom	Pass	2.4-2.4835G	2.403129G	2.44103G	37.821M
2442MHz_Tnom	Pass	2.4-2.4835G	2.423089G	2.460991G	37.901M
2462MHz_Tnom	Pass	2.4-2.4835G	2.44297G	2.48103G	38.061M

fl-OBW = fl lower edge 99% occupied bandwidth; fh-OBW = fh higher edge 99% occupied bandwidth; OBW = 99% occupied bandwidth;
N dB = 6dB down bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

2412MHz

12/06/2023

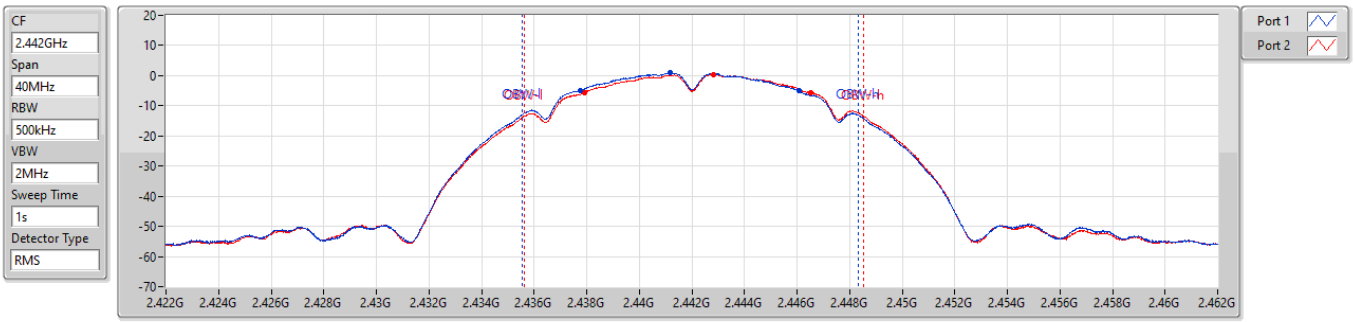


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.3M	2.40798G	2.41628G	12.814M	2.405663G	2.418477G	2.4-2.4835G	1
8.34M	2.4078G	2.41614G	12.754M	2.405603G	2.418357G	2.4-2.4835G	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

2442MHz

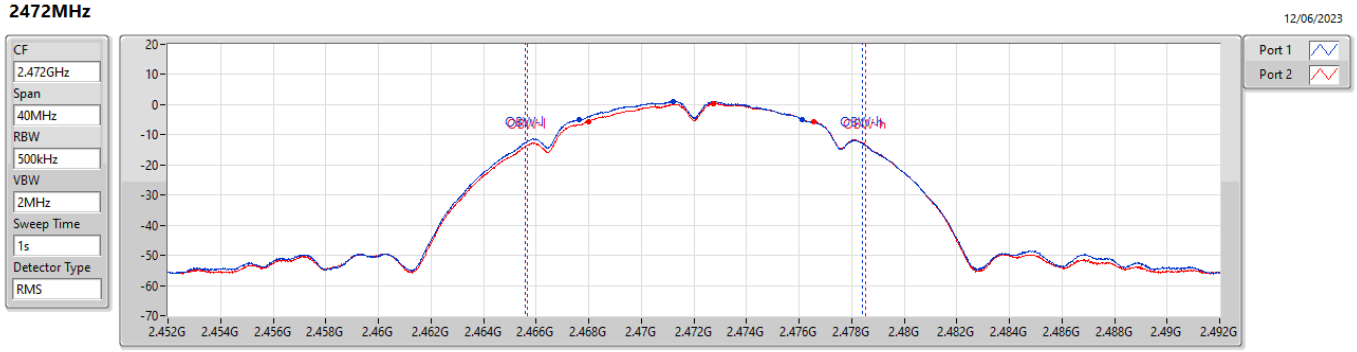
12/06/2023



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.32M	2.43776G	2.44608G	12.754M	2.435563G	2.448317G	2.4-2.4835G	1
8.62M	2.43792G	2.44654G	12.874M	2.435643G	2.448517G	2.4-2.4835G	2

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX **EBW**

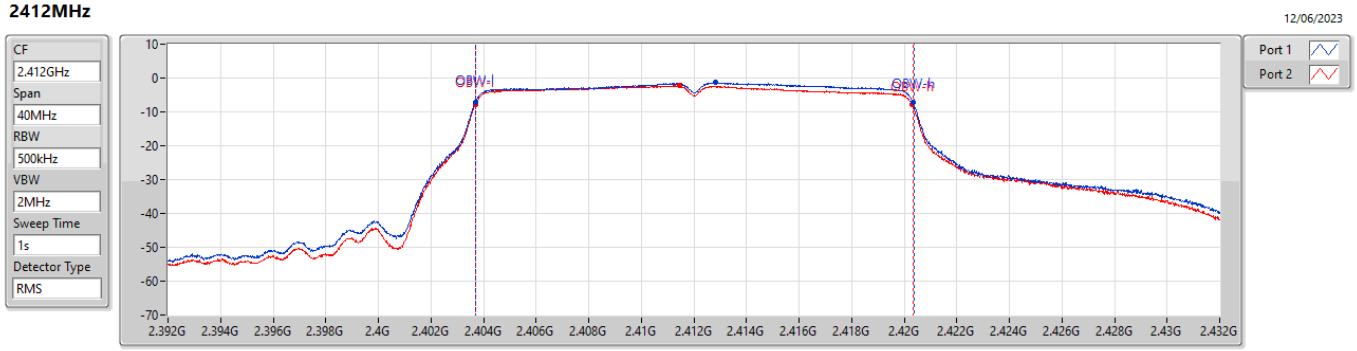
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.52M	2.46762G	2.47614G	12.814M	2.465583G	2.478397G	2.4-2.4835G	1
8.58M	2.46798G	2.47656G	12.854M	2.465663G	2.478517G	2.4-2.4835G	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

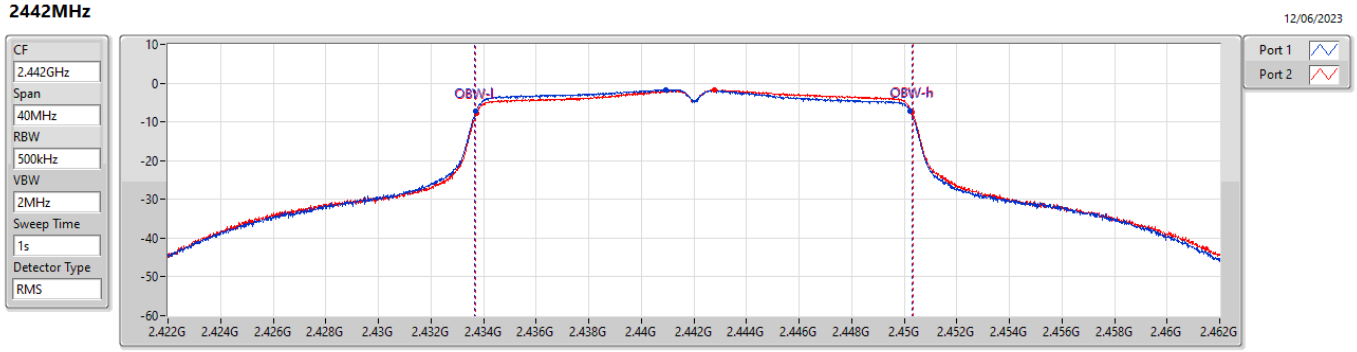
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.66M	2.40368G	2.42034G	16.672M	2.403704G	2.420376G	2.4-2.4835G	1
16.62M	2.40368G	2.4203G	16.652M	2.403704G	2.420356G	2.4-2.4835G	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

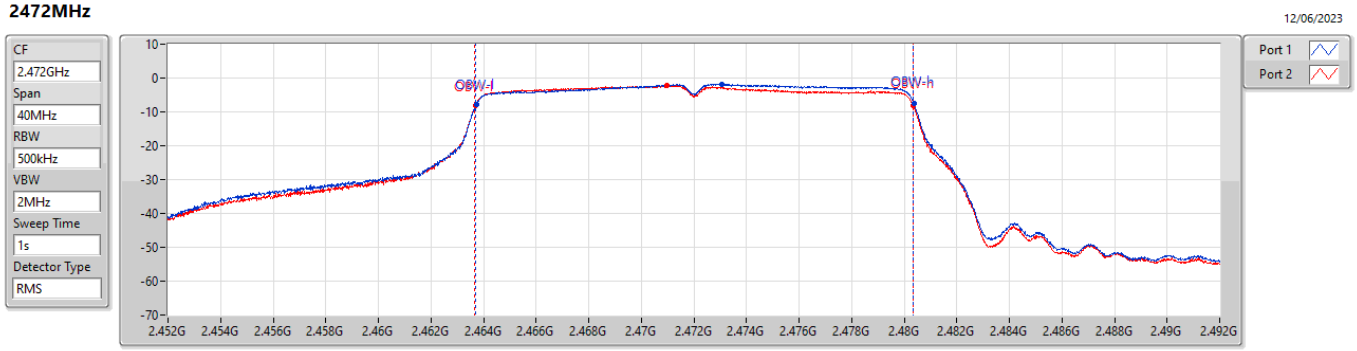
2442MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.54M	2.4337G	2.45024G	16.632M	2.433664G	2.450296G	2.4-2.4835G	1
16.58M	2.43374G	2.45032G	16.632M	2.433704G	2.450336G	2.4-2.4835G	2

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX **EBW**

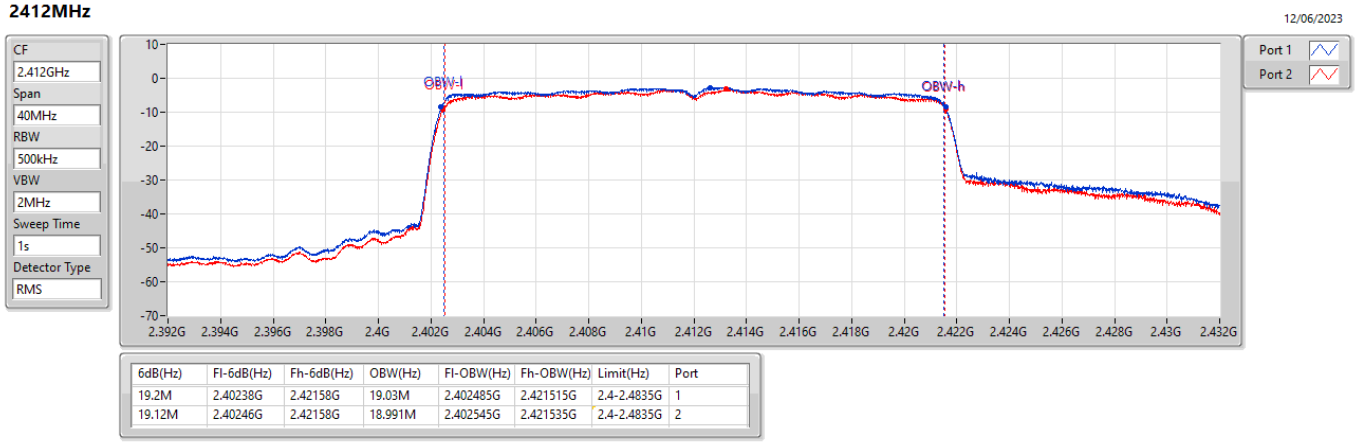
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.66M	2.46372G	2.48038G	16.652M	2.463704G	2.480356G	2.4-2.4835G	1
16.68M	2.46368G	2.48036G	16.672M	2.463664G	2.480336G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

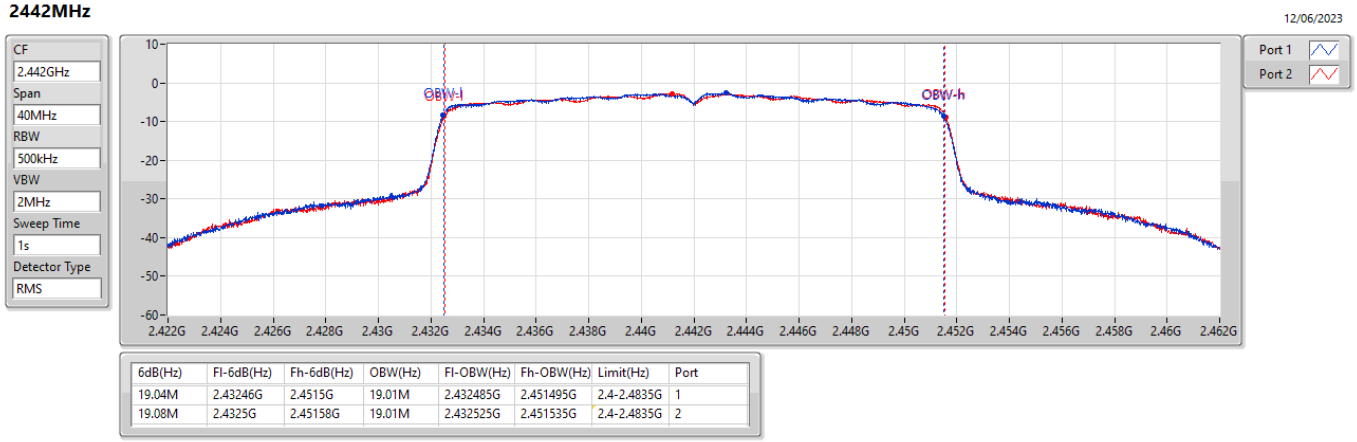
2412MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.2M	2.40238G	2.42158G	19.03M	2.402485G	2.421515G	2.4-2.4835G	1
19.12M	2.40246G	2.42158G	18.991M	2.402545G	2.421535G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

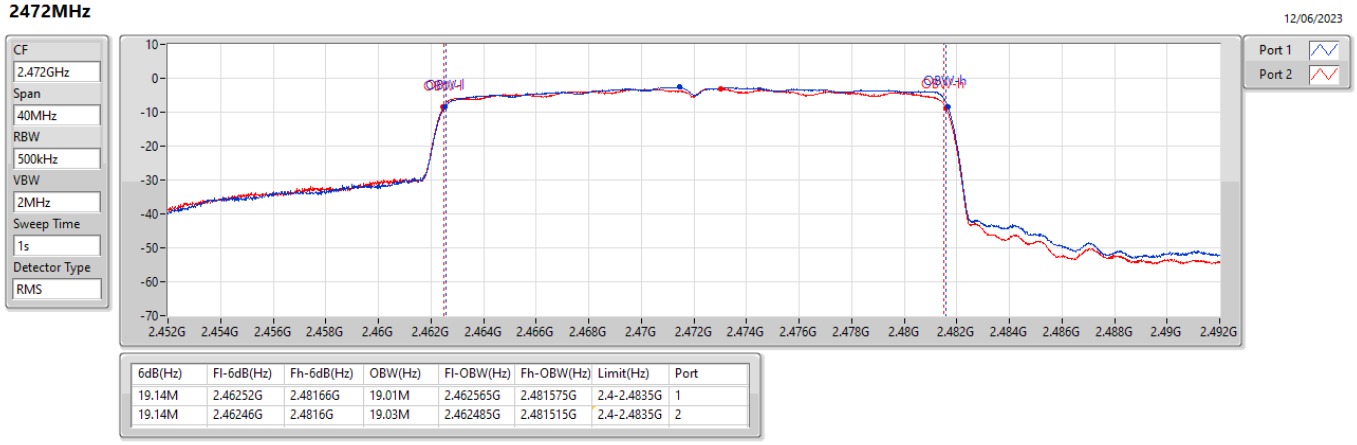
2442MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.04M	2.43246G	2.4515G	19.01M	2.432485G	2.451495G	2.4-2.4835G	1
19.08M	2.4325G	2.45158G	19.01M	2.432525G	2.451535G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX **EBW**

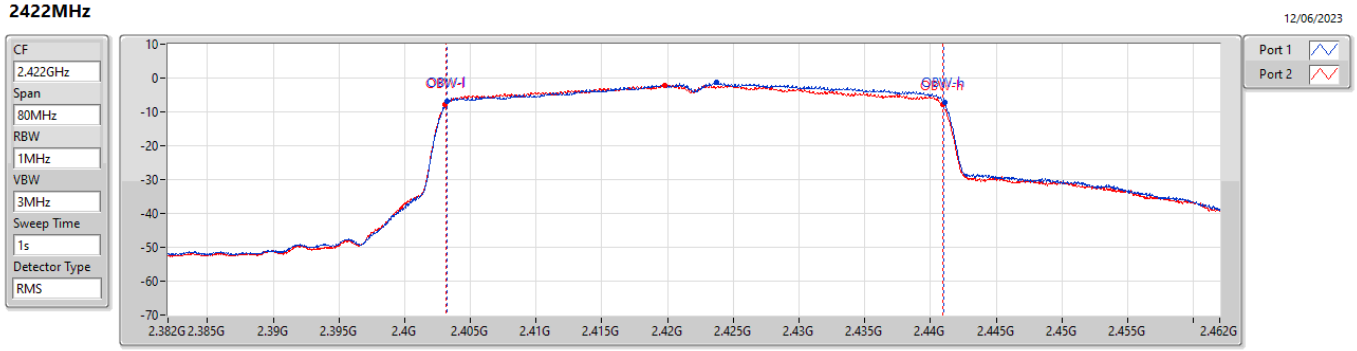
2472MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
19.14M	2.46252G	2.48166G	19.01M	2.462565G	2.481575G	2.4-2.4835G	1
19.14M	2.46246G	2.4816G	19.03M	2.462485G	2.481515G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

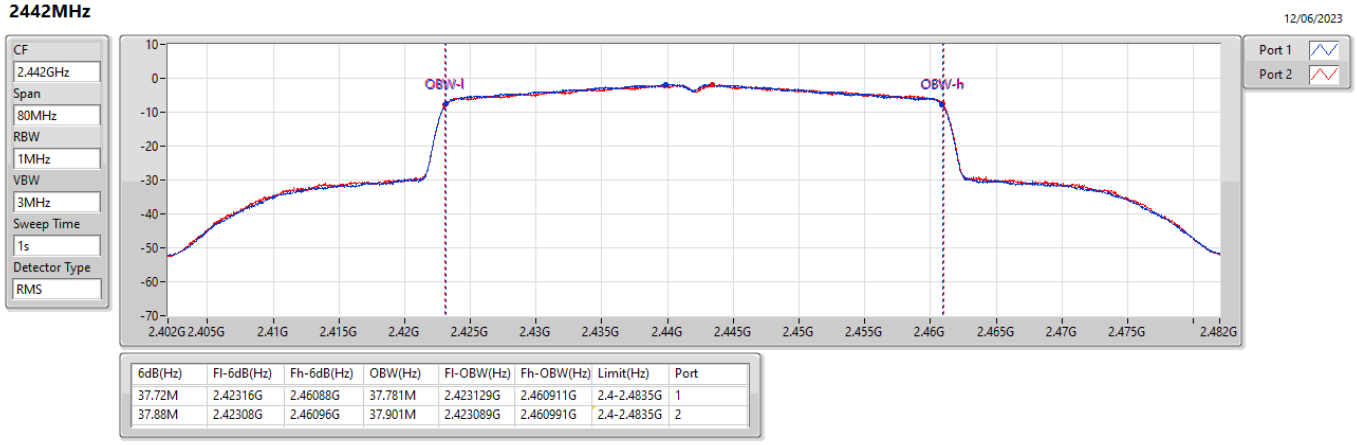
2422MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.84M	2.40324G	2.44108G	37.821M	2.403209G	2.44103G	2.4-2.4835G	1
37.88M	2.40304G	2.44092G	37.821M	2.403129G	2.440951G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

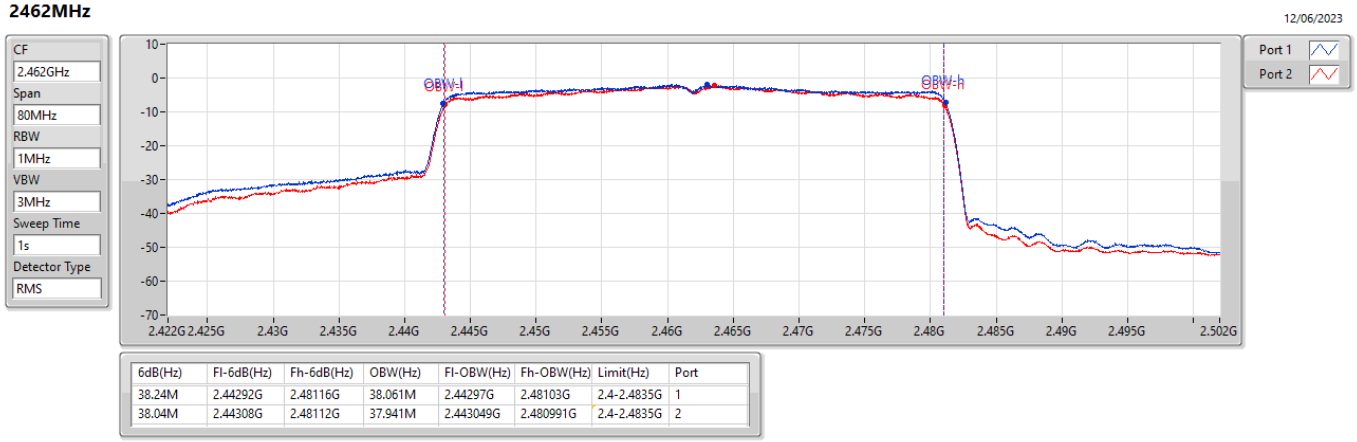
2442MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.72M	2.42316G	2.46088G	37.781M	2.423129G	2.460911G	2.4-2.4835G	1
37.88M	2.42308G	2.46096G	37.901M	2.423089G	2.460991G	2.4-2.4835G	2

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **EBW**

2462MHz



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.24M	2.44292G	2.48116G	38.061M	2.44297G	2.48103G	2.4-2.4835G	1
38.04M	2.44308G	2.48112G	37.941M	2.443049G	2.480991G	2.4-2.4835G	2

Summary

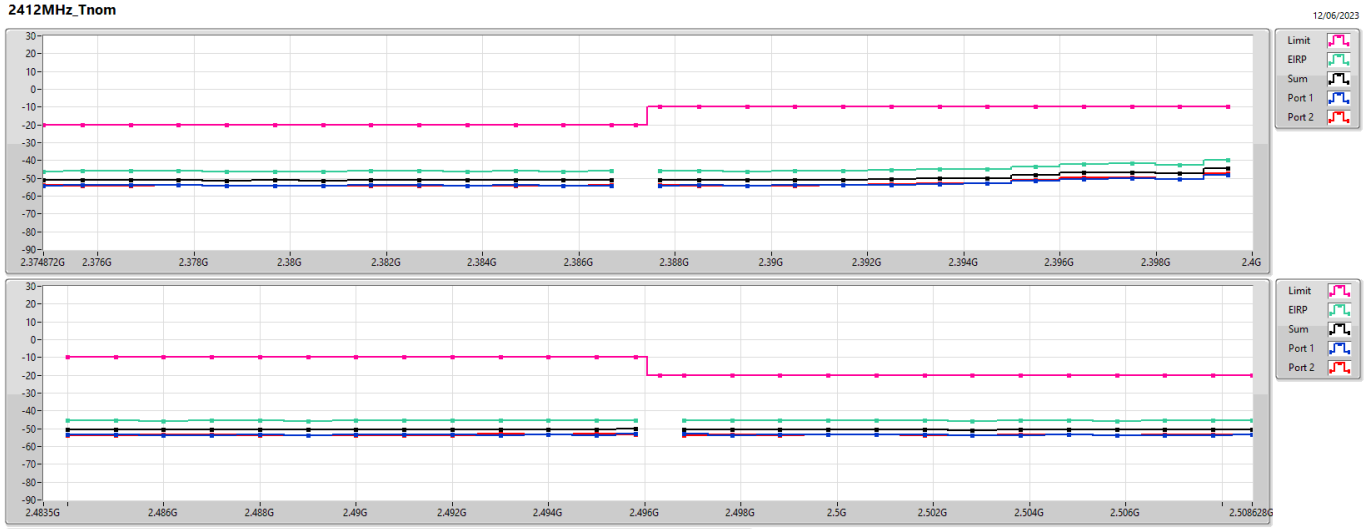
Mode	EIRP-A (dBm)	Limit-A (dBm)	EIRP-B (dBm)	Limit-B (dBm)
2.4-2.4835GHz	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	-39.1	-10	-45.33	-20
802.11g_Nss1,(6Mbps)_2TX	-34.21	-10	-44.75	-20
802.11ax HEW20_Nss1,(MCS0)_2TX	-34.38	-10	-44.73	-20
802.11ax HEW40_Nss1,(MCS0)_2TX	-31.88	-10	-44.53	-20

Result

Mode	Result	Freq (Hz)	EIRP (dBm)	Limit (dBm)	Freq (Hz)	EIRP (dBm)	Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	2.377686G	-45.89	-20	2.3995G	-39.67	-10
2412MHz_Tnom	Pass	2.499814G	-45.42	-20	2.495814G	-45.37	-10
2472MHz_Tnom	Pass	2.378646G	-45.99	-20	2.3975G	-45.89	-10
2472MHz_Tnom	Pass	2.500854G	-45.33	-20	2.485G	-39.10	-10
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	2.380828G	-45.27	-20	2.3995G	-34.21	-10
2412MHz_Tnom	Pass	2.515672G	-44.94	-20	2.492G	-44.92	-10
2472MHz_Tnom	Pass	2.372828G	-45.50	-20	2.3965G	-45.51	-10
2472MHz_Tnom	Pass	2.500672G	-44.75	-20	2.484G	-34.27	-10
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2412MHz_Tnom	Pass	2.37747G	-45.36	-20	2.3995G	-36.91	-10
2412MHz_Tnom	Pass	2.50603G	-45.05	-20	2.489G	-44.86	-10
2472MHz_Tnom	Pass	2.37247G	-45.61	-20	2.3985G	-45.47	-10
2472MHz_Tnom	Pass	2.50303G	-44.73	-20	2.484G	-34.38	-10
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-
2422MHz_Tnom	Pass	2.341679G	-45.11	-20	2.3995G	-31.88	-10
2422MHz_Tnom	Pass	2.523821G	-44.88	-20	2.502G	-44.36	-10
2462MHz_Tnom	Pass	2.335439G	-45.43	-20	2.3995G	-45.14	-10
2462MHz_Tnom	Pass	2.524061G	-44.53	-20	2.484G	-36.46	-10

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX MASK-DTS

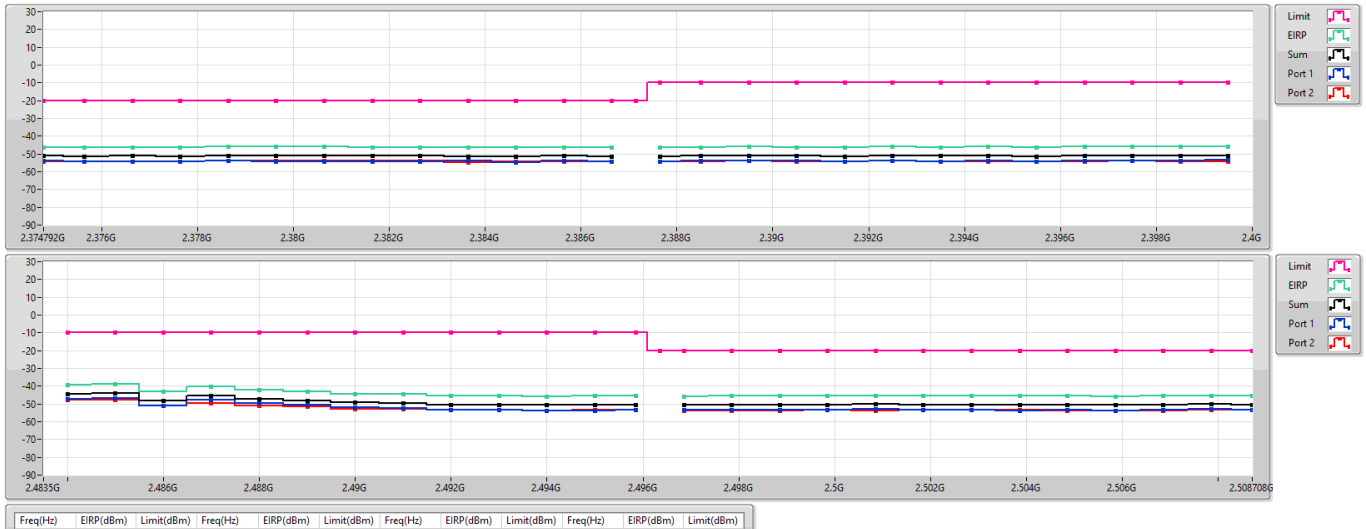
2412MHz_Tnom



Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.377686G	-45.89	-20	2.3995G	-39.67	-10	2.495814G	-45.37	-10	2.499814G	-45.42	-20

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX MASK-DTS

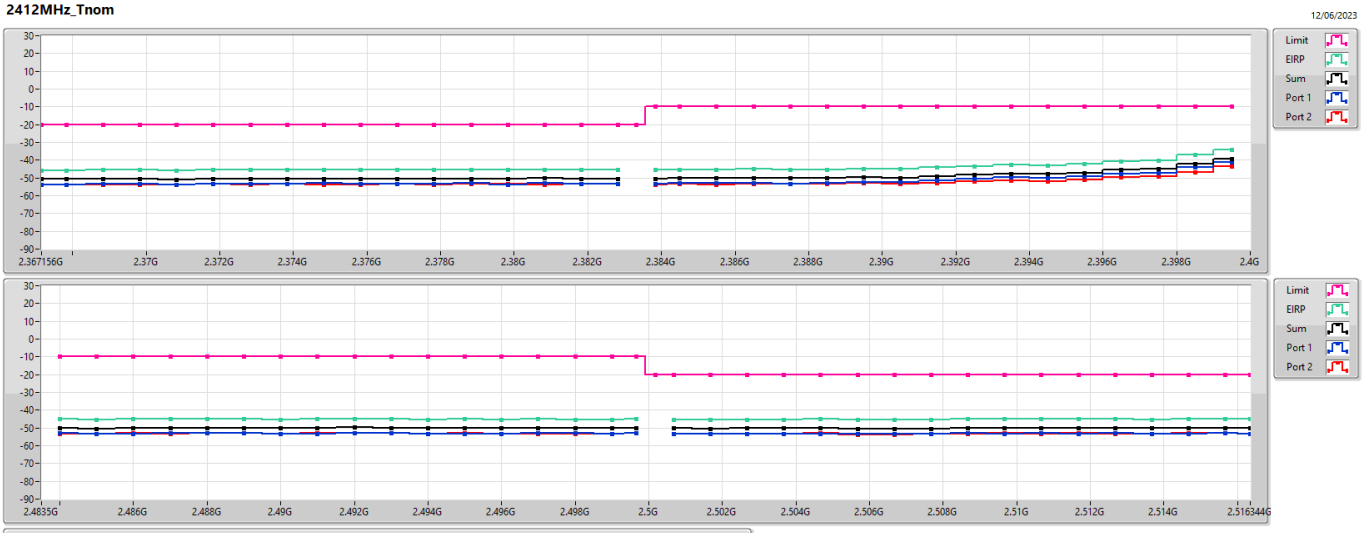
2472MHz_Tnom



Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.378646G	-45.99	-20	2.3975G	-45.89	-10	2.485G	-39.10	-10	2.500854G	-45.33	-20

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX MASK-DTS

2412MHz_Tnom



Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.380828G	-45.27	-20	2.3995G	-34.21	-10	2.492G	-44.92	-10	2.515672G	-44.94	-20

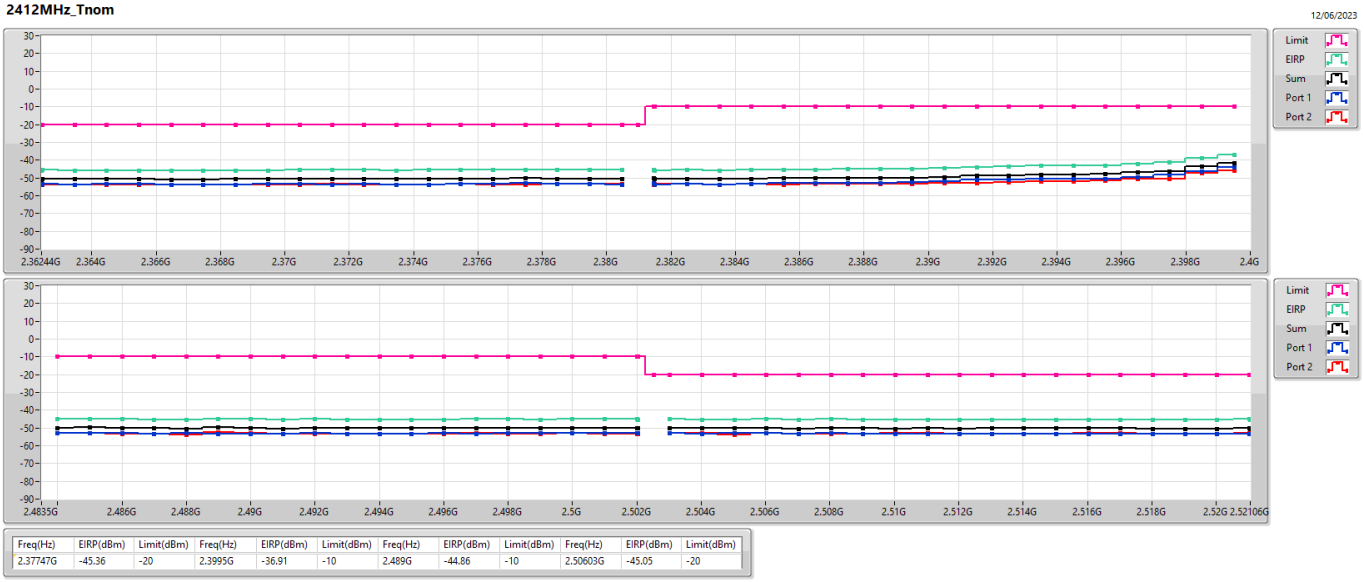
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX MASK-DTS

2472MHz_Tnom

Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.372828G	-45.50	-20	2.3965G	-45.51	-10	2.484G	-34.27	-10	2.500672G	-44.75	-20

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX MASK-DTS

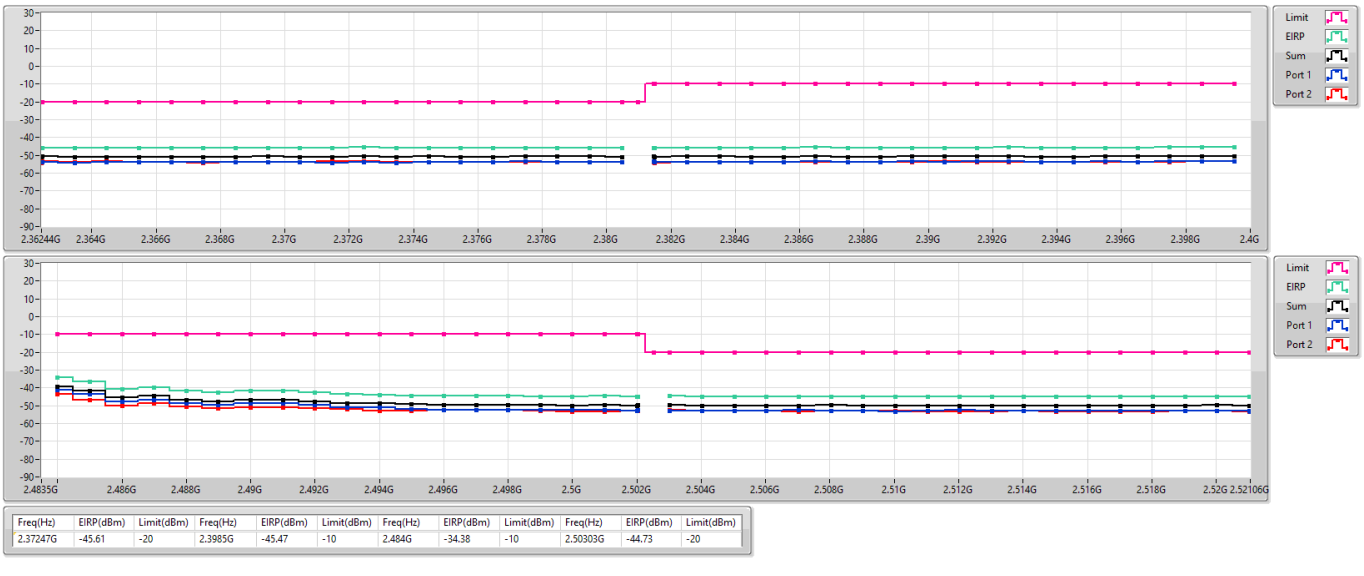
2412MHz_Tnom



Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.37747G	-45.36	-20	2.3995G	-36.91	-10	2.489G	-44.86	-10	2.50603G	-45.05	-20

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX MASK-DTS

2472MHz_Tnom

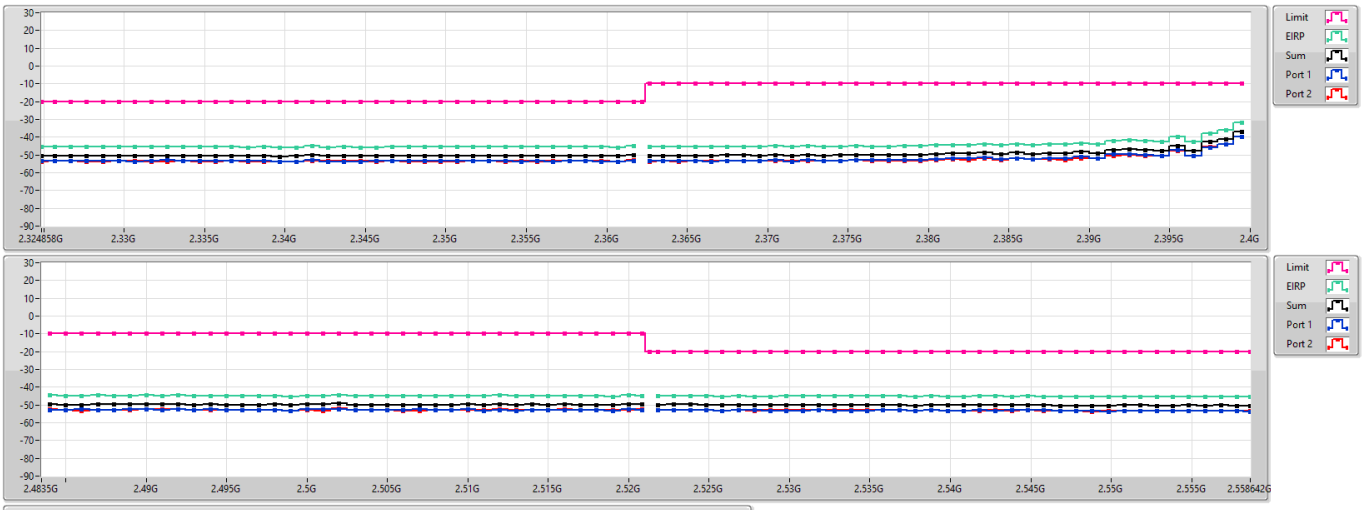


Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.37247G	-45.61	-20	2.3985G	-45.47	-10	2.484G	-34.38	-10	2.50303G	-44.73	-20

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **MASK-DTS**

2422MHz_Tnom

12/06/2023

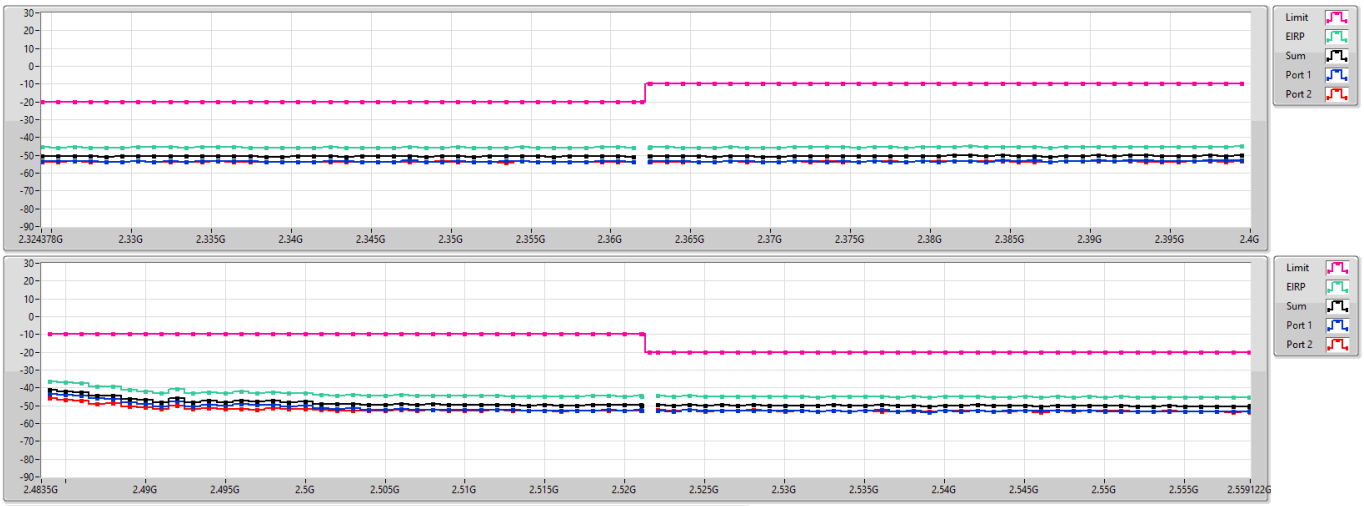


Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.341679G	-45.11	-20	2.3995G	-31.88	-10	2.502G	-44.36	-10	2.523821G	-44.88	-20

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX **MASK-DTS**

2462MHz_Tnom

12/06/2023



Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)	Freq(Hz)	EIRP(dBm)	Limit(dBm)
2.335439G	-45.43	-20	2.3995G	-45.14	-10	2.484G	-36.46	-10	2.524061G	-44.53	-20

Summary

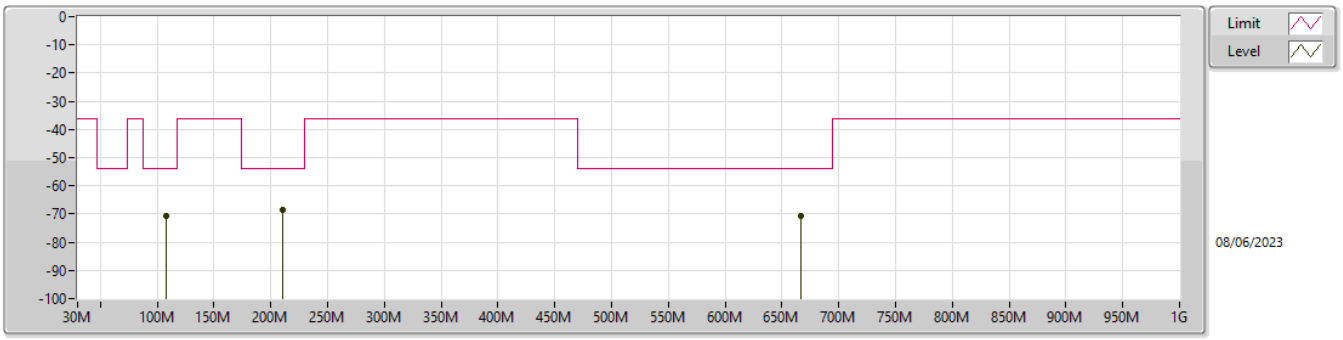
Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	213.16M	-64.16	-54.00	-10.16	0.14	3	Horizontal	360	1.5	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2462MHz_TX	Pass	AV	108.3M	-70.50	-54.00	-16.50	1.75	3	Vertical	0	1.5	-
2462MHz_TX	Pass	AV	210.36M	-68.63	-54.00	-14.63	-0.96	3	Vertical	0	1.5	-
2462MHz_TX	Pass	AV	666.88M	-70.55	-54.00	-16.55	8.86	3	Vertical	0	1.5	-
2462MHz_TX	Pass	AV	213.16M	-64.16	-54.00	-10.16	0.14	3	Horizontal	360	1.5	-
2462MHz_TX	Pass	AV	475.02M	-67.64	-54.00	-13.64	6.69	3	Horizontal	360	1.5	-
2462MHz_TX	Pass	AV	674.08M	-68.97	-54.00	-14.97	10.14	3	Horizontal	360	1.5	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

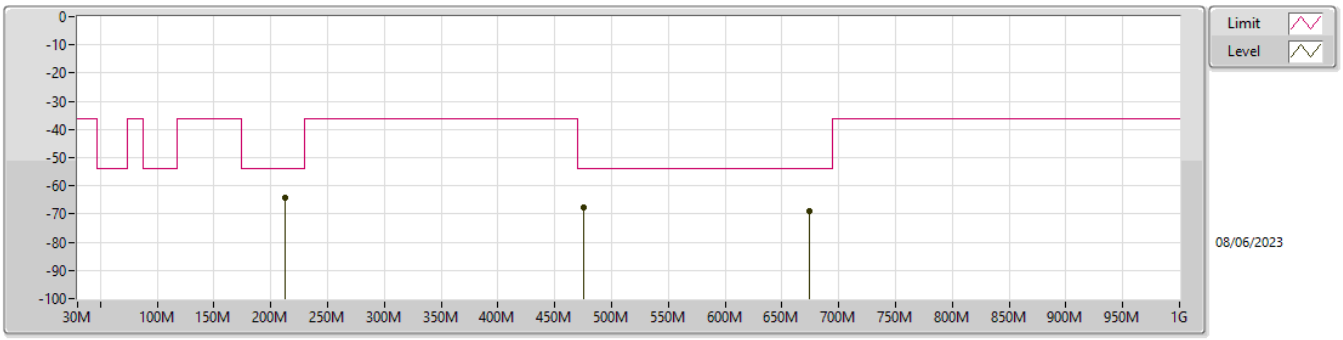
2462MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
108.3M	-70.50	-54.00	-16.50	1.75	Vertical	-72.25
210.36M	-68.63	-54.00	-14.63	-0.96	Vertical	-67.67
666.88M	-70.55	-54.00	-16.55	8.86	Vertical	-79.41

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2462MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
213.16M	-64.16	-54.00	-10.16	0.14	Horizontal	-64.30
475.02M	-67.64	-54.00	-13.64	6.69	Horizontal	-74.33
674.08M	-68.97	-54.00	-14.97	10.14	Horizontal	-79.11

Summary

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	Pass	AV	7.32418G	-30.12	-30.00	-0.12	3.19	3	Vertical	349	1.5	TDP
802.11g_Nss1,(6Mbps)_2TX	Pass	AV	7.23612G	-30.22	-30.00	-0.22	3.40	3	Vertical	42	1.5	TDP
802.11ax HEW20_Nss1,(MCS0)_2TX	Pass	AV	7.23477G	-31.12	-30.00	-1.12	3.40	3	Vertical	43	1.5	TDP
802.11ax HEW40_Nss1,(MCS0)_2TX	Pass	AV	7.2747G	-34.96	-30.00	-4.96	3.31	3	Vertical	44	1.5	TDP

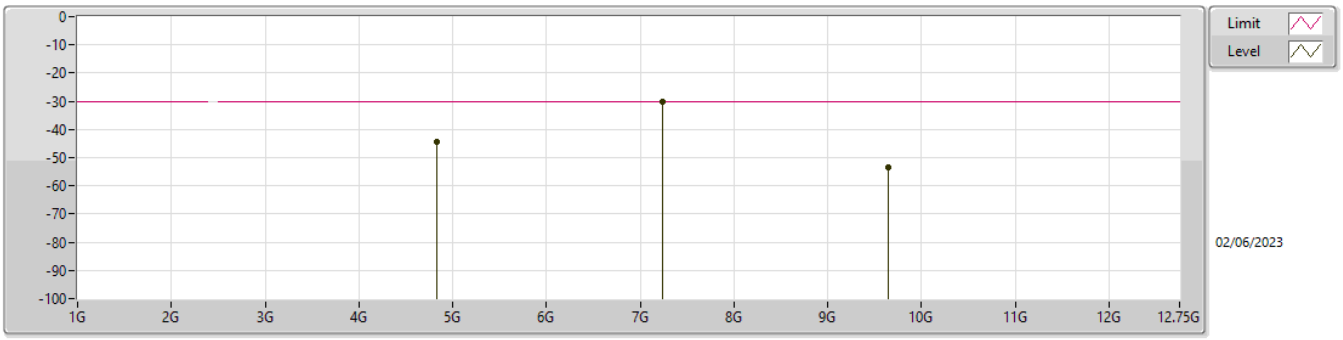
Result

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	4.82395G	-44.37	-30.00	-14.37	2.89	3	Vertical	360	1.5	-
2412MHz_TX	Pass	AV	7.2351G	-30.21	-30.00	-0.21	3.40	3	Vertical	346	1.5	TDP
2412MHz_TX	Pass	AV	9.64854G	-53.25	-30.00	-23.25	3.40	3	Vertical	360	1.5	-
2412MHz_TX	Pass	AV	4.82395G	-47.64	-30.00	-17.64	2.89	3	Horizontal	0	1.5	-
2412MHz_TX	Pass	AV	7.23514G	-34.73	-30.00	-4.73	3.40	3	Horizontal	92	1.5	TDP
2412MHz_TX	Pass	AV	9.64812G	-55.08	-30.00	-25.08	3.40	3	Horizontal	0	1.5	-
2442MHz_TX	Pass	AV	4.88411G	-44.84	-30.00	-14.84	2.91	3	Vertical	360	1.5	-
2442MHz_TX	Pass	AV	7.32418G	-30.12	-30.00	-0.12	3.19	3	Vertical	349	1.5	TDP
2442MHz_TX	Pass	AV	9.76845G	-50.20	-30.00	-20.20	3.52	3	Vertical	360	1.5	-
2442MHz_TX	Pass	AV	4.88411G	-43.46	-30.00	-13.46	2.91	3	Horizontal	0	1.5	-
2442MHz_TX	Pass	AV	7.32515G	-32.00	-30.00	-2.00	3.19	3	Horizontal	86	1.5	TDP
2442MHz_TX	Pass	AV	9.76845G	-51.87	-30.00	-21.87	3.52	3	Horizontal	0	1.5	-
2472MHz_TX	Pass	AV	4.94386G	-43.39	-30.00	-13.39	2.94	3	Vertical	360	1.5	-
2472MHz_TX	Pass	AV	7.41706G	-32.33	-30.00	-2.33	2.98	3	Vertical	285	1.5	TDP
2472MHz_TX	Pass	AV	9.88836G	-46.42	-30.00	-16.42	3.64	3	Vertical	360	1.5	-
2472MHz_TX	Pass	AV	4.94427G	-44.12	-30.00	-14.12	2.94	3	Horizontal	0	1.5	-
2472MHz_TX	Pass	AV	7.4171G	-35.25	-30.00	-5.25	2.98	3	Horizontal	90	1.5	TDP
2472MHz_TX	Pass	AV	9.88836G	-51.26	-30.00	-21.26	3.64	3	Horizontal	0	1.5	-
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	4.82063G	-47.35	-30.00	-17.35	2.88	3	Vertical	0	1.5	-
2412MHz_TX	Pass	AV	7.23612G	-30.22	-30.00	-0.22	3.40	3	Vertical	42	1.5	TDP
2412MHz_TX	Pass	AV	9.65269G	-55.32	-30.00	-25.32	3.40	3	Vertical	0	1.5	-
2412MHz_TX	Pass	AV	4.82395G	-52.85	-30.00	-22.85	2.89	3	Horizontal	360	1.5	-
2412MHz_TX	Pass	AV	7.23393G	-36.04	-30.00	-6.04	3.40	3	Horizontal	93	1.5	TDP
2412MHz_TX	Pass	AV	9.64314G	-55.56	-30.00	-25.56	3.39	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	4.88536G	-47.14	-30.00	-17.14	2.91	3	Vertical	360	1.5	-
2442MHz_TX	Pass	AV	7.32719G	-32.27	-30.00	-2.27	3.19	3	Vertical	359	1.5	TDP
2442MHz_TX	Pass	AV	9.76845G	-53.60	-30.00	-23.60	3.52	3	Vertical	360	1.5	-
2442MHz_TX	Pass	AV	4.89034G	-54.69	-30.00	-24.69	2.91	3	Horizontal	0	1.5	-
2442MHz_TX	Pass	AV	7.32452G	-36.75	-30.00	-6.75	3.19	3	Horizontal	92	1.5	TDP
2442MHz_TX	Pass	AV	9.75807G	-55.38	-30.00	-25.38	3.51	3	Horizontal	0	1.5	-
2472MHz_TX	Pass	AV	4.94469G	-47.26	-30.00	-17.26	2.94	3	Vertical	0	1.5	-
2472MHz_TX	Pass	AV	7.41215G	-34.09	-30.00	-4.09	2.99	3	Vertical	1	1.5	TDP
2472MHz_TX	Pass	AV	9.87964G	-53.78	-30.00	-23.78	3.63	3	Vertical	0	1.5	-
2472MHz_TX	Pass	AV	4.94676G	-55.68	-30.00	-25.68	2.94	3	Horizontal	360	1.5	-
2472MHz_TX	Pass	AV	7.41549G	-37.84	-30.00	-7.84	2.98	3	Horizontal	360	1.5	-
2472MHz_TX	Pass	AV	9.88296G	-55.12	-30.00	-25.12	3.63	3	Horizontal	360	1.5	-
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_TX	Pass	AV	4.81648G	-50.96	-30.00	-20.96	2.88	3	Vertical	0	1.5	-
2412MHz_TX	Pass	AV	7.23477G	-31.12	-30.00	-1.12	3.40	3	Vertical	43	1.5	TDP
2412MHz_TX	Pass	AV	9.65186G	-55.82	-30.00	-25.82	3.40	3	Vertical	0	1.5	-
2412MHz_TX	Pass	AV	4.82685G	-52.03	-30.00	-22.03	2.89	3	Horizontal	360	1.5	-
2412MHz_TX	Pass	AV	7.23196G	-36.01	-30.00	-6.01	3.41	3	Horizontal	90	1.5	TDP
2412MHz_TX	Pass	AV	9.63319G	-55.58	-30.00	-25.58	3.38	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	4.89034G	-49.10	-30.00	-19.10	2.91	3	Vertical	0	1.5	-
2442MHz_TX	Pass	AV	7.32497G	-33.48	-30.00	-3.48	3.19	3	Vertical	41	1.5	TDP
2442MHz_TX	Pass	AV	9.77675G	-53.42	-30.00	-23.42	3.53	3	Vertical	0	1.5	-
2442MHz_TX	Pass	AV	4.87996G	-53.29	-30.00	-23.29	2.91	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	7.32452G	-37.69	-30.00	-7.69	3.19	3	Horizontal	90	1.5	TDP
2442MHz_TX	Pass	AV	9.75393G	-55.38	-30.00	-25.38	3.50	3	Horizontal	360	1.5	-
2472MHz_TX	Pass	AV	4.9422G	-48.40	-30.00	-18.40	2.94	3	Vertical	0	1.5	-
2472MHz_TX	Pass	AV	7.41529G	-37.14	-30.00	-7.14	2.98	3	Vertical	42	1.5	TDP
2472MHz_TX	Pass	AV	9.89168G	-53.42	-30.00	-23.42	3.64	3	Vertical	0	1.5	-
2472MHz_TX	Pass	AV	4.9451G	-51.58	-30.00	-21.58	2.94	3	Horizontal	360	1.5	-
2472MHz_TX	Pass	AV	7.41051G	-37.41	-30.00	-7.41	3.00	3	Horizontal	360	1.5	-
2472MHz_TX	Pass	AV	9.89997G	-54.87	-30.00	-24.87	3.65	3	Horizontal	360	1.5	-
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_TX	Pass	AV	4.85673G	-51.72	-30.00	-21.72	2.90	3	Vertical	0	1.5	-
2422MHz_TX	Pass	AV	7.2747G	-34.96	-30.00	-4.96	3.31	3	Vertical	44	1.5	TDP
2422MHz_TX	Pass	AV	9.68837G	-55.32	-30.00	-25.32	3.44	3	Vertical	0	1.5	-

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2422MHz_TX	Pass	AV	4.84553G	-53.64	-30.00	-23.64	2.90	3	Horizontal	360	1.5	-
2422MHz_TX	Pass	AV	7.26404G	-36.08	-30.00	-6.08	3.33	3	Horizontal	360	1.5	-
2422MHz_TX	Pass	AV	9.71492G	-55.67	-30.00	-25.67	3.46	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	4.88411G	-51.79	-30.00	-21.79	2.91	3	Vertical	0	1.5	-
2442MHz_TX	Pass	AV	7.32502G	-35.25	-30.00	-5.25	3.19	3	Vertical	42	1.5	TDP
2442MHz_TX	Pass	AV	9.76803G	-54.01	-30.00	-24.01	3.52	3	Vertical	0	1.5	-
2442MHz_TX	Pass	AV	4.8949G	-54.38	-30.00	-24.38	2.92	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	7.31632G	-36.52	-30.00	-6.52	3.21	3	Horizontal	360	1.5	-
2442MHz_TX	Pass	AV	9.74397G	-54.52	-30.00	-24.52	3.49	3	Horizontal	360	1.5	-
2462MHz_TX	Pass	AV	4.92519G	-49.18	-30.00	-19.18	2.93	3	Vertical	0	1.5	-
2462MHz_TX	Pass	AV	7.38494G	-37.78	-30.00	-7.78	3.05	3	Vertical	42	1.5	TDP
2462MHz_TX	Pass	AV	9.85682G	-54.92	-30.00	-24.92	3.61	3	Vertical	0	1.5	-
2462MHz_TX	Pass	AV	4.9173G	-53.89	-30.00	-23.89	2.93	3	Horizontal	360	1.5	-
2462MHz_TX	Pass	AV	7.38561G	-40.30	-30.00	-10.30	3.05	3	Horizontal	360	1.5	-
2462MHz_TX	Pass	AV	9.86512G	-54.71	-30.00	-24.71	3.62	3	Horizontal	360	1.5	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

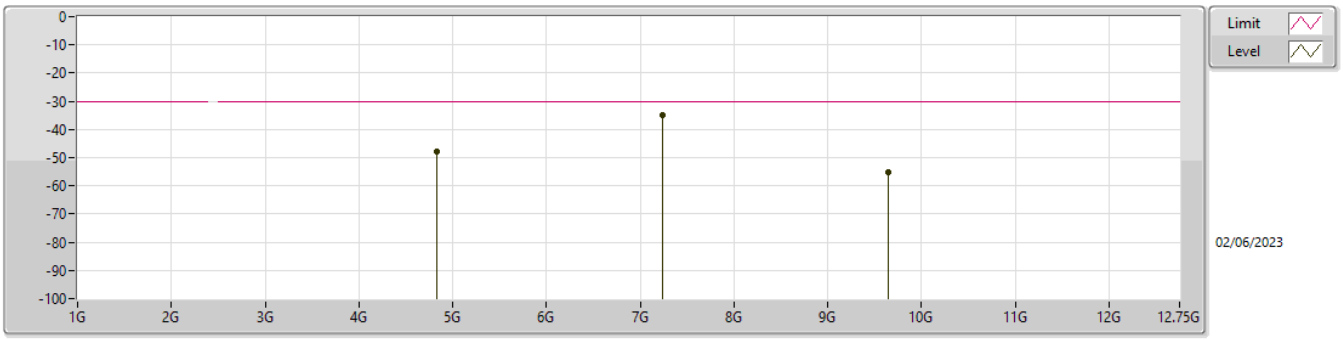
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.82395G	-44.37	-30.00	-14.37	2.89	Vertical	-47.26
7.2351G	-30.21	-30.00	-0.21	3.40	Vertical	-33.61
9.64854G	-53.25	-30.00	-23.25	3.40	Vertical	-56.65

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

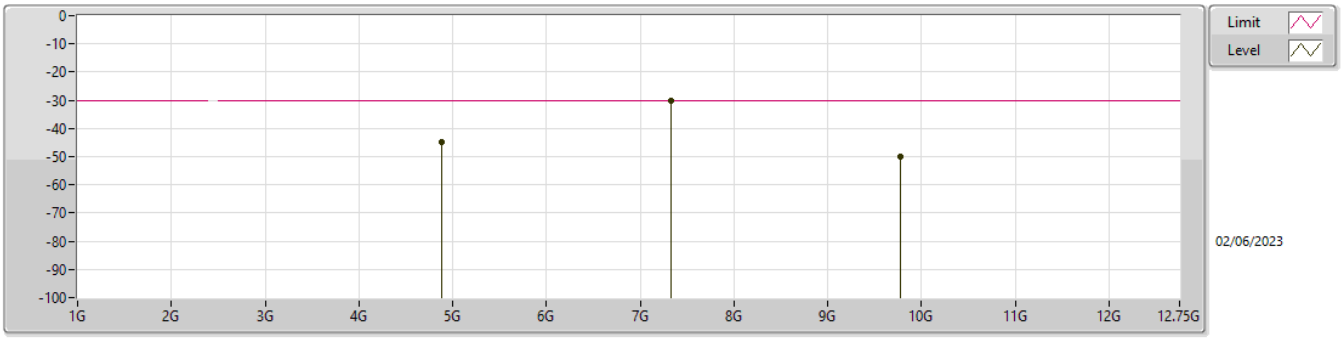
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.82395G	-47.64	-30.00	-17.64	2.89	Horizontal	-50.53
7.23514G	-34.73	-30.00	-4.73	3.40	Horizontal	-38.13
9.64812G	-55.08	-30.00	-25.08	3.40	Horizontal	-58.48

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

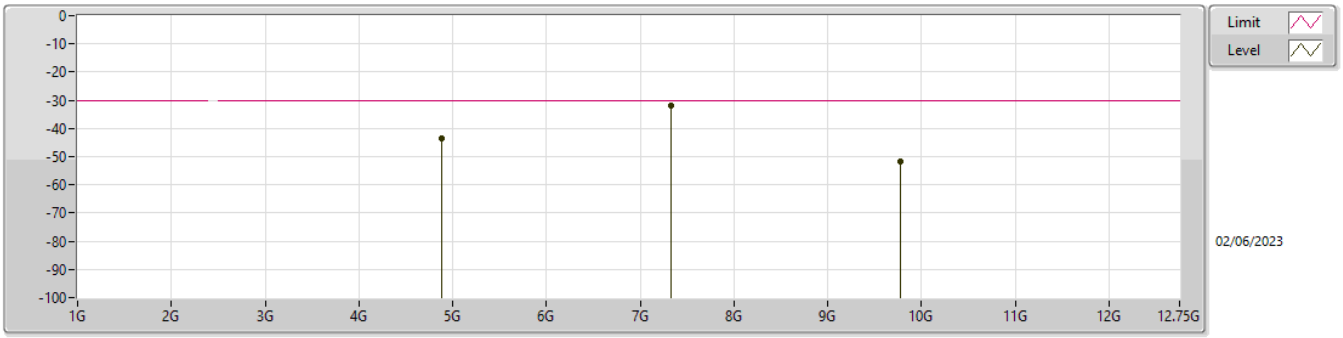
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.88411G	-44.84	-30.00	-14.84	2.91	Vertical	-47.75
7.32418G	-30.12	-30.00	-0.12	3.19	Vertical	-33.31
9.76845G	-50.20	-30.00	-20.20	3.52	Vertical	-53.72

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

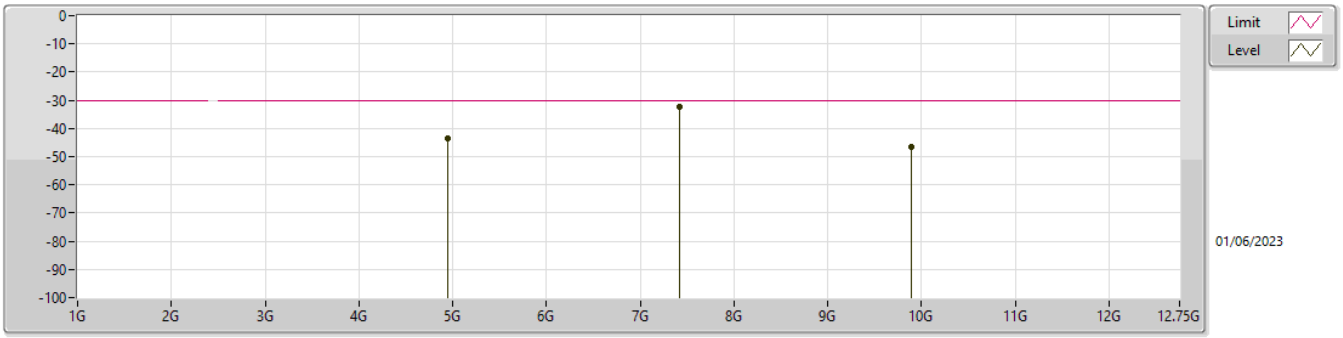
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.88411G	-43.46	-30.00	-13.46	2.91	Horizontal	-46.37
7.32515G	-32.00	-30.00	-2.00	3.19	Horizontal	-35.19
9.76845G	-51.87	-30.00	-21.87	3.52	Horizontal	-55.39

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

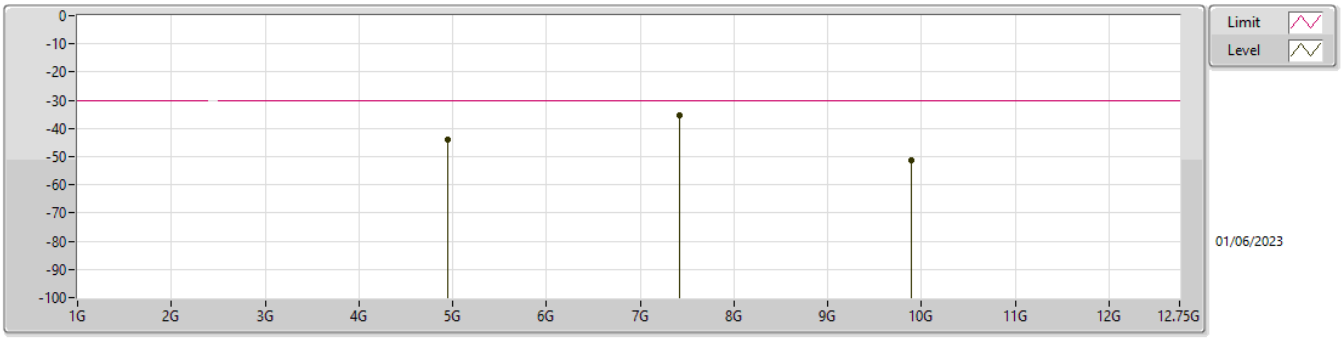
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.94386G	-43.39	-30.00	-13.39	2.94	Vertical	-46.33
7.41706G	-32.33	-30.00	-2.33	2.98	Vertical	-35.31
9.88836G	-46.42	-30.00	-16.42	3.64	Vertical	-50.06

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_2TX

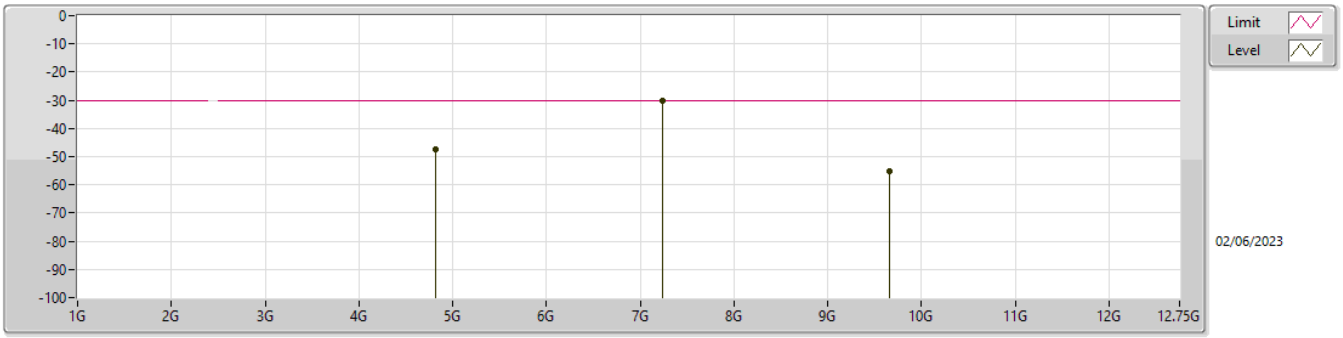
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.94427G	-44.12	-30.00	-14.12	2.94	Horizontal	-47.06
7.4171G	-35.25	-30.00	-5.25	2.98	Horizontal	-38.23
9.88836G	-51.26	-30.00	-21.26	3.64	Horizontal	-54.90

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

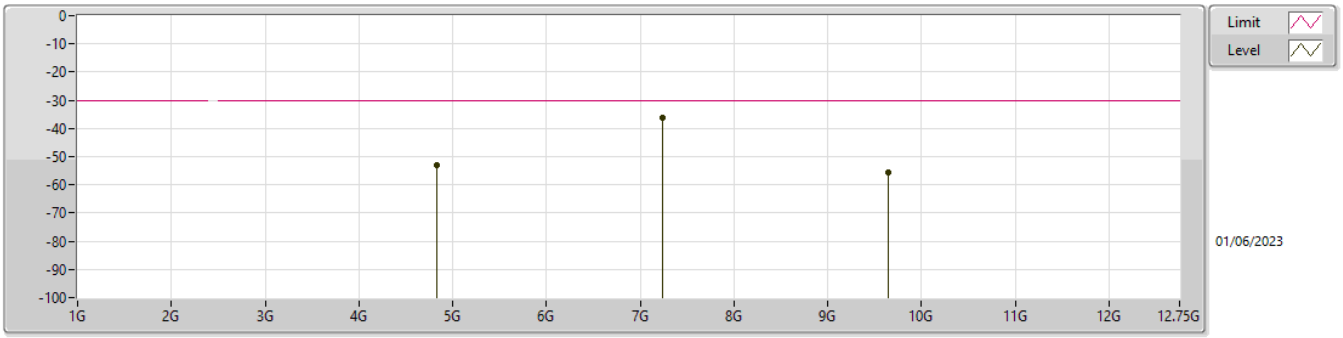
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.82063G	-47.35	-30.00	-17.35	2.88	Vertical	-50.23
7.23612G	-30.22	-30.00	-0.22	3.40	Vertical	-33.62
9.65269G	-55.32	-30.00	-25.32	3.40	Vertical	-58.72

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

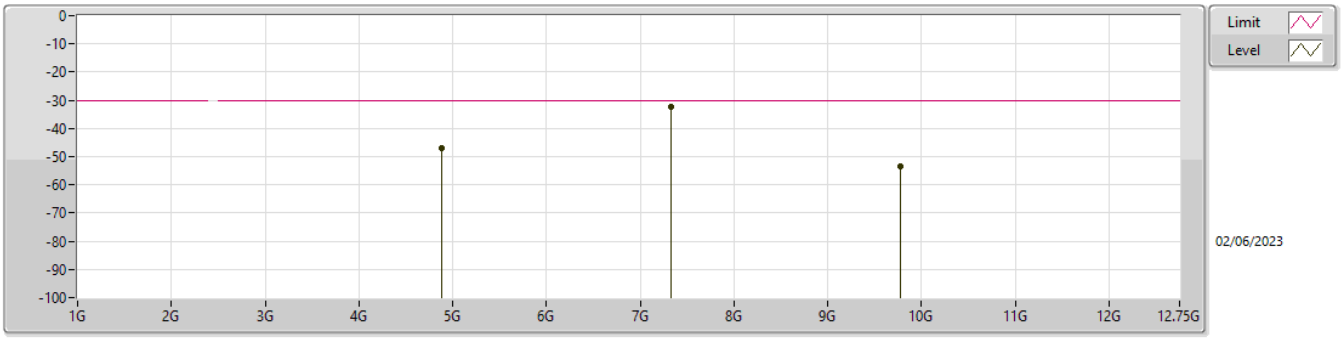
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.82395G	-52.85	-30.00	-22.85	2.89	Horizontal	-55.74
7.23393G	-36.04	-30.00	-6.04	3.40	Horizontal	-39.44
9.64314G	-55.56	-30.00	-25.56	3.39	Horizontal	-58.95

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

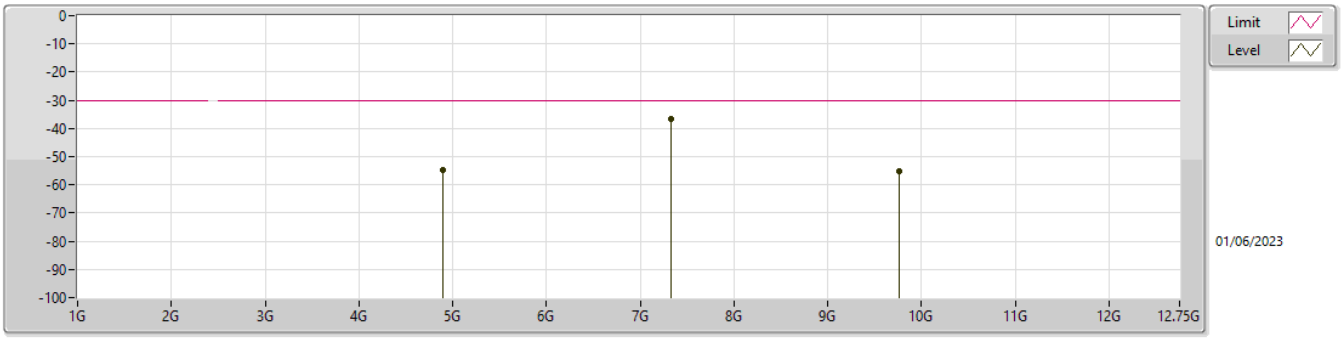
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.88536G	-47.14	-30.00	-17.14	2.91	Vertical	-50.05
7.32719G	-32.27	-30.00	-2.27	3.19	Vertical	-35.46
9.76845G	-53.60	-30.00	-23.60	3.52	Vertical	-57.12

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

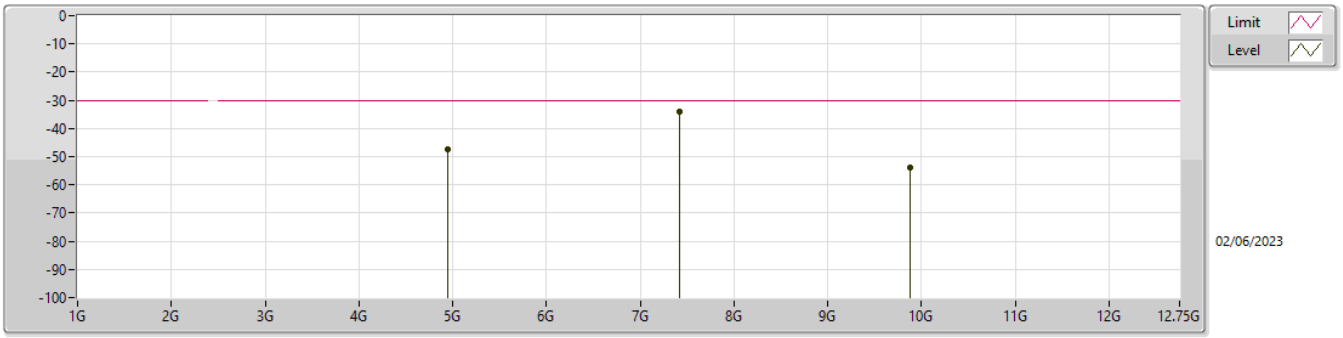
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.89034G	-54.69	-30.00	-24.69	2.91	Horizontal	-57.60
7.32452G	-36.75	-30.00	-6.75	3.19	Horizontal	-39.94
9.75807G	-55.38	-30.00	-25.38	3.51	Horizontal	-58.89

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

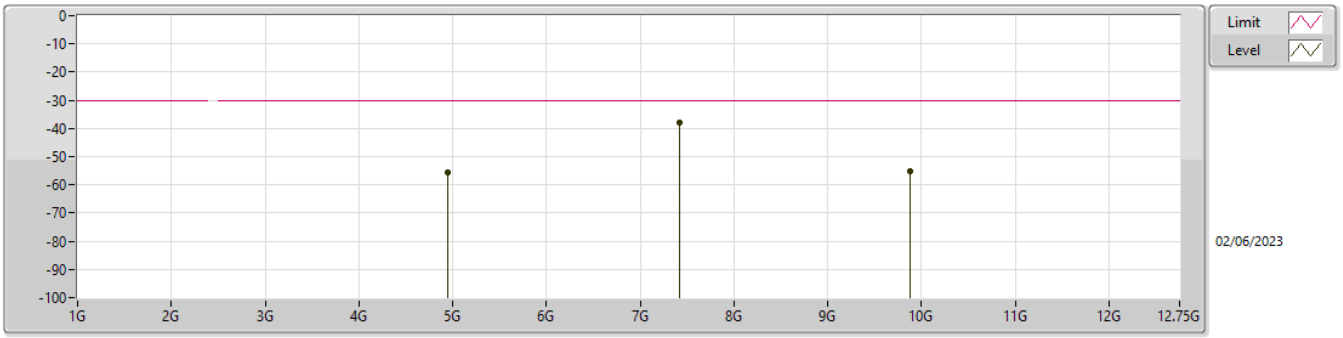
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.94469G	-47.26	-30.00	-17.26	2.94	Vertical	-50.20
7.41215G	-34.09	-30.00	-4.09	2.99	Vertical	-37.08
9.87964G	-53.78	-30.00	-23.78	3.63	Vertical	-57.41

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_2TX

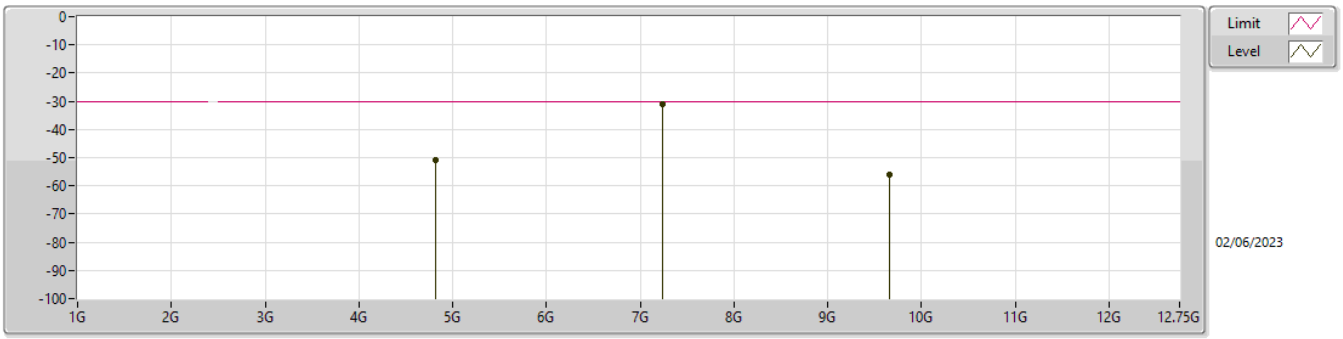
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.94676G	-55.68	-30.00	-25.68	2.94	Horizontal	-58.62
7.41549G	-37.84	-30.00	-7.84	2.98	Horizontal	-40.82
9.88296G	-55.12	-30.00	-25.12	3.63	Horizontal	-58.75

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

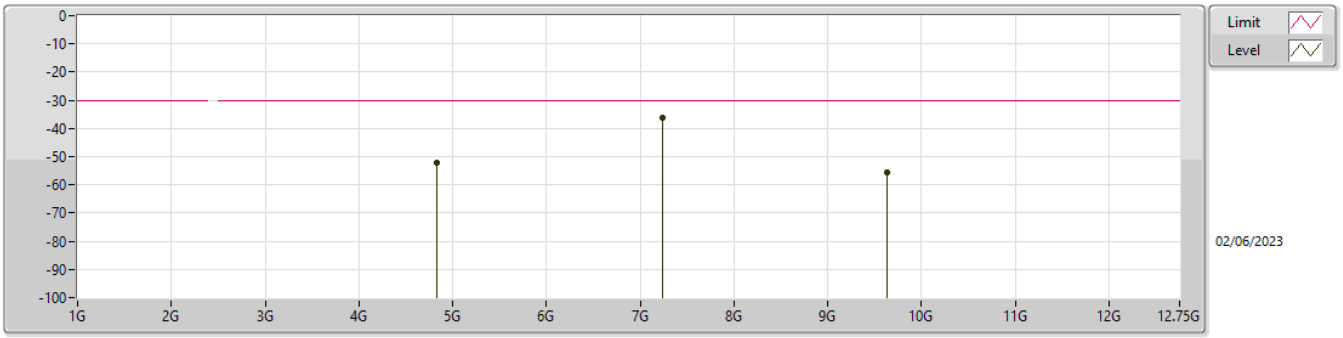
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.81648G	-50.96	-30.00	-20.96	2.88	Vertical	-53.84
7.23477G	-31.12	-30.00	-1.12	3.40	Vertical	-34.52
9.65186G	-55.82	-30.00	-25.82	3.40	Vertical	-59.22

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

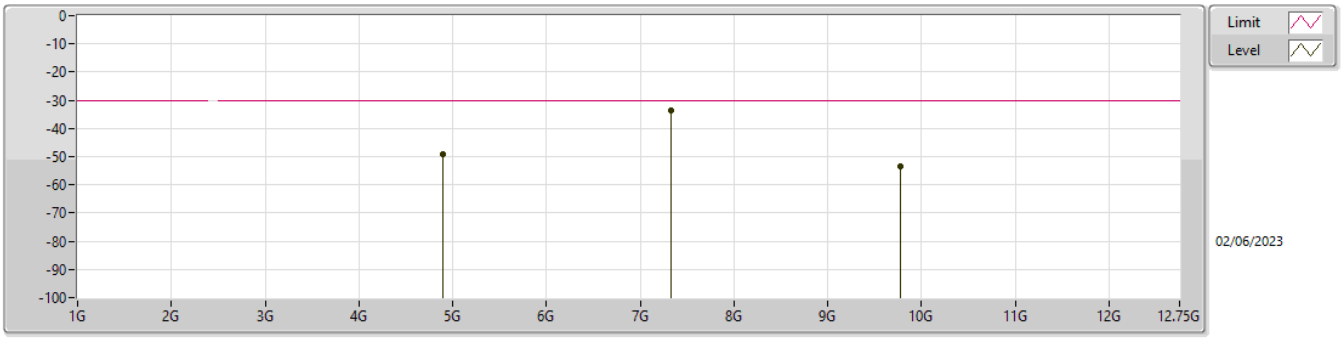
2412MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.82685G	-52.03	-30.00	-22.03	2.89	Horizontal	-54.92
7.23196G	-36.01	-30.00	-6.01	3.41	Horizontal	-39.42
9.63319G	-55.58	-30.00	-25.58	3.38	Horizontal	-58.96

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

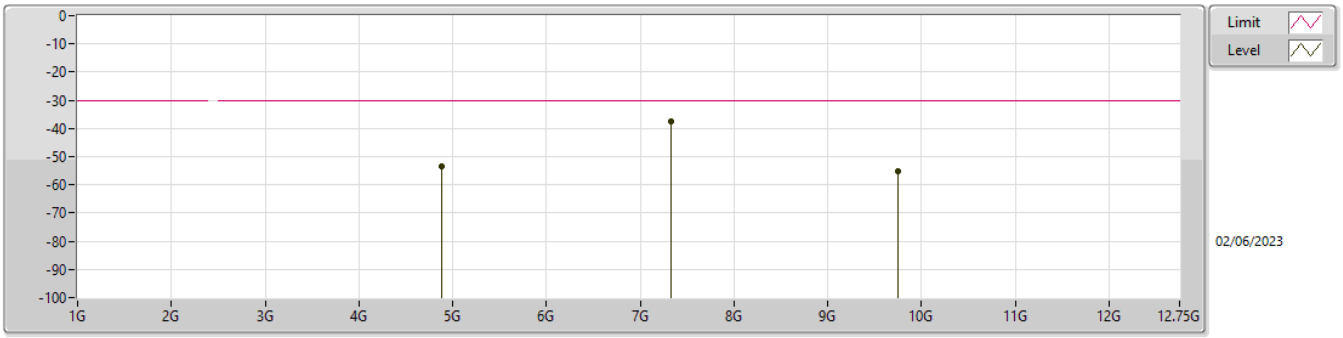
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.89034G	-49.10	-30.00	-19.10	2.91	Vertical	-52.01
7.32497G	-33.48	-30.00	-3.48	3.19	Vertical	-36.67
9.77675G	-53.42	-30.00	-23.42	3.53	Vertical	-56.95

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

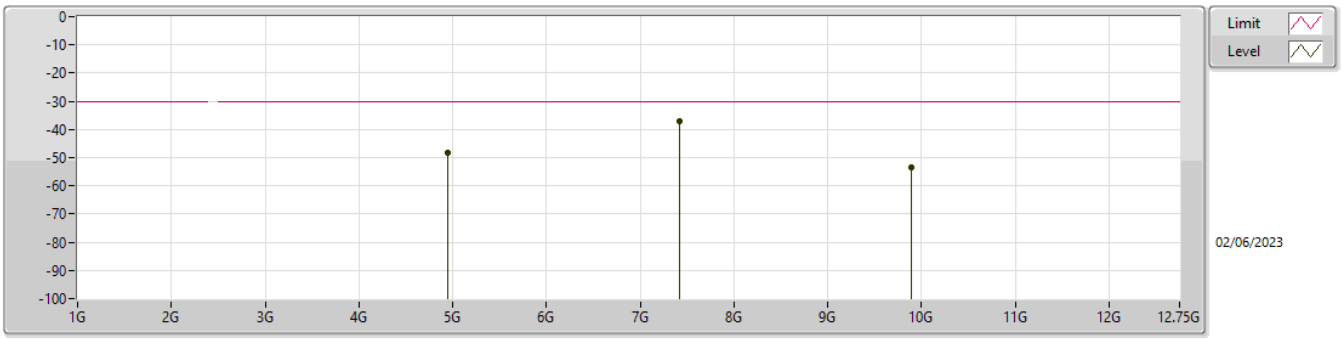
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.87996G	-53.29	-30.00	-23.29	2.91	Horizontal	-56.20
7.32452G	-37.69	-30.00	-7.69	3.19	Horizontal	-40.88
9.75393G	-55.38	-30.00	-25.38	3.50	Horizontal	-58.88

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

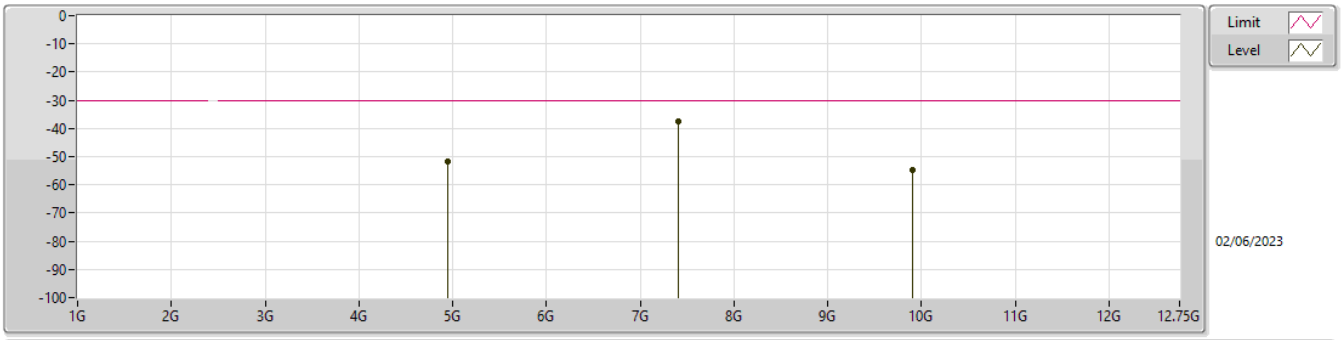
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.9422G	-48.40	-30.00	-18.40	2.94	Vertical	-51.34
7.41529G	-37.14	-30.00	-7.14	2.98	Vertical	-40.12
9.89168G	-53.42	-30.00	-23.42	3.64	Vertical	-57.06

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_2TX

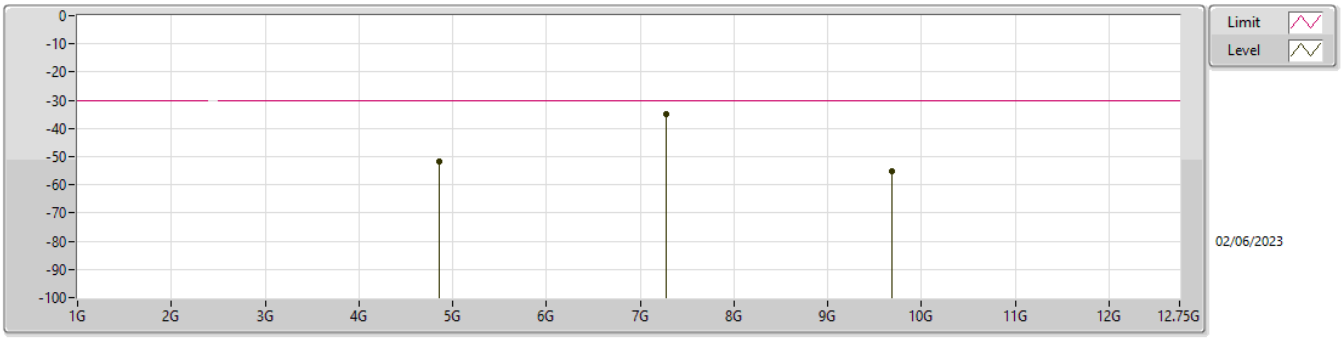
2472MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.9451G	-51.58	-30.00	-21.58	2.94	Horizontal	-54.52
7.41051G	-37.41	-30.00	-7.41	3.00	Horizontal	-40.41
9.89997G	-54.87	-30.00	-24.87	3.65	Horizontal	-58.52

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

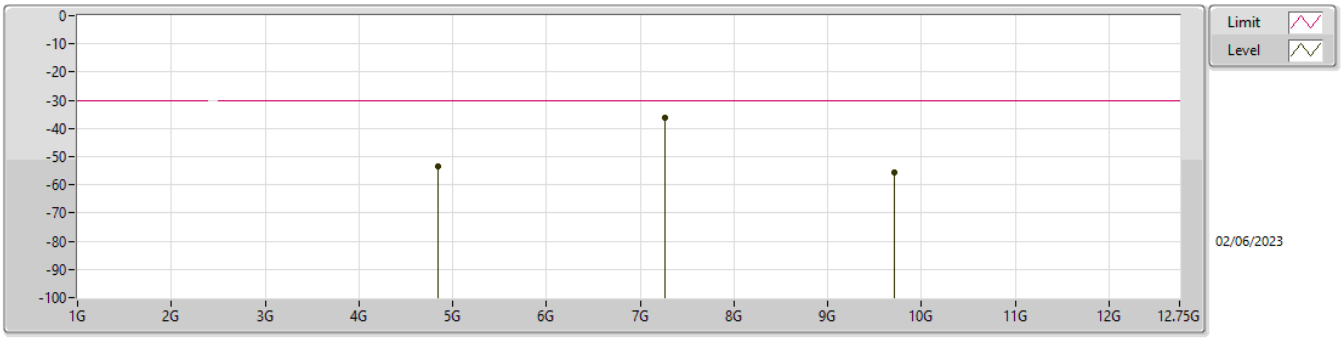
2422MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.85673G	-51.72	-30.00	-21.72	2.90	Vertical	-54.62
7.2747G	-34.96	-30.00	-4.96	3.31	Vertical	-38.27
9.68837G	-55.32	-30.00	-25.32	3.44	Vertical	-58.76

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

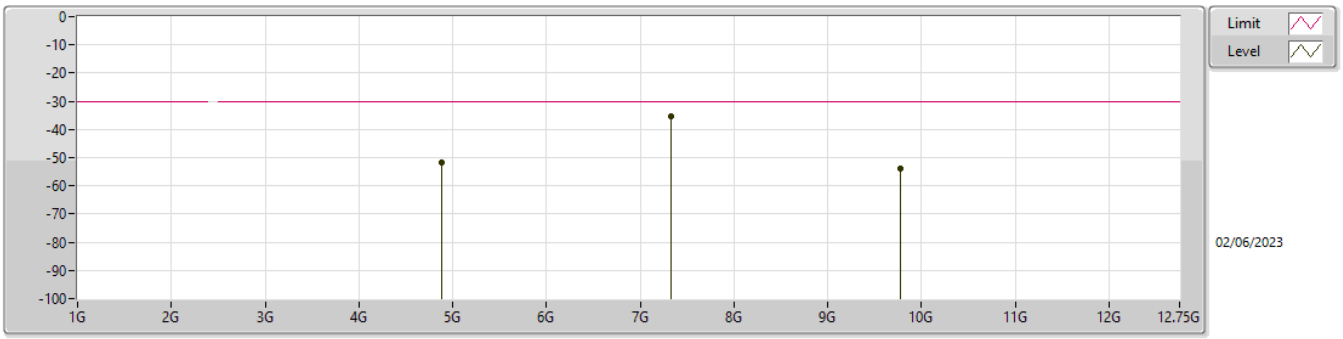
2422MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.84553G	-53.64	-30.00	-23.64	2.90	Horizontal	-56.54
7.26404G	-36.08	-30.00	-6.08	3.33	Horizontal	-39.41
9.71492G	-55.67	-30.00	-25.67	3.46	Horizontal	-59.13

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

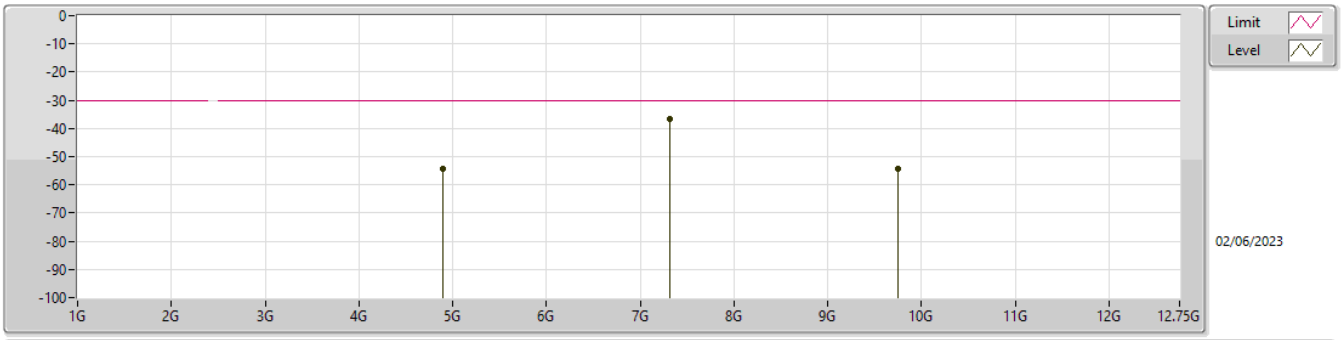
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.88411G	-51.79	-30.00	-21.79	2.91	Vertical	-54.70
7.32502G	-35.25	-30.00	-5.25	3.19	Vertical	-38.44
9.76803G	-54.01	-30.00	-24.01	3.52	Vertical	-57.53

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

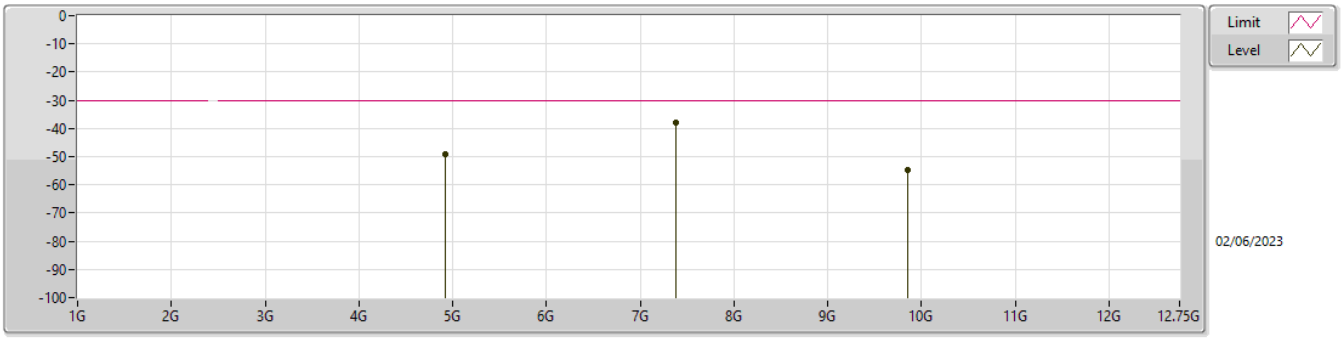
2442MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.8949G	-54.38	-30.00	-24.38	2.92	Horizontal	-57.30
7.31632G	-36.52	-30.00	-6.52	3.21	Horizontal	-39.73
9.74397G	-54.52	-30.00	-24.52	3.49	Horizontal	-58.01

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

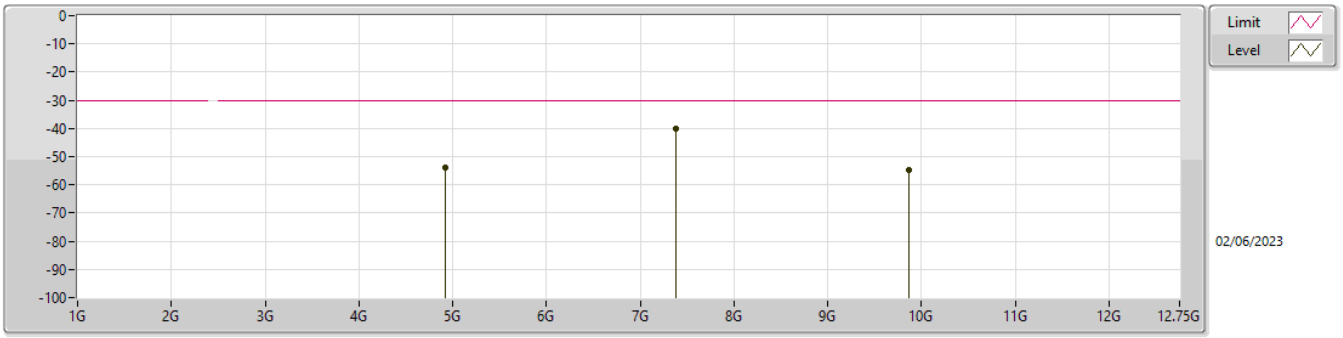
2462MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.92519G	-49.18	-30.00	-19.18	2.93	Vertical	-52.11
7.38494G	-37.78	-30.00	-7.78	3.05	Vertical	-40.83
9.85682G	-54.92	-30.00	-24.92	3.61	Vertical	-58.53

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_2TX

2462MHz_TX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
4.9173G	-53.89	-30.00	-23.89	2.93	Horizontal	-56.82
7.38561G	-40.30	-30.00	-10.30	3.05	Horizontal	-43.35
9.86512G	-54.71	-30.00	-24.71	3.62	Horizontal	-58.33

Summary

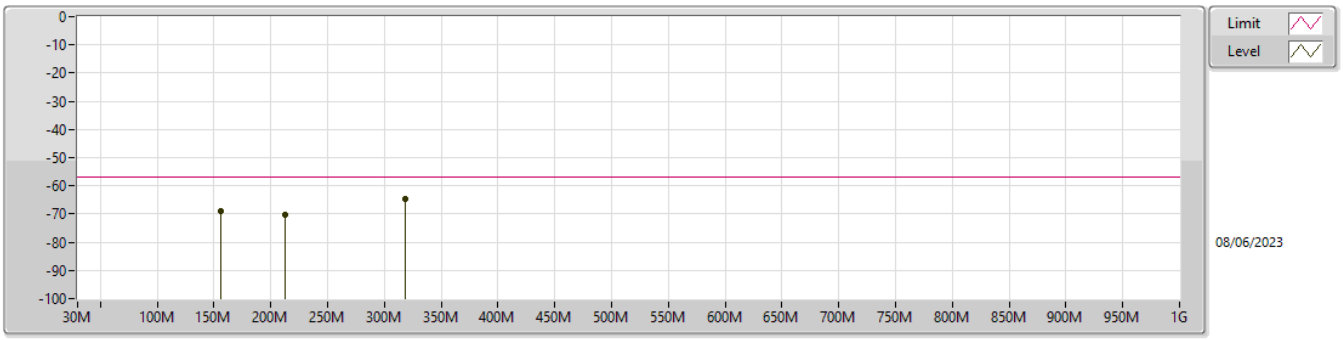
Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_(MCS0)_RX	Pass	AV	318.26M	-64.57	-57.00	-7.57	3.22	3	Vertical	360	1.5	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW40_(MCS0)_RX	-	-	-	-	-	-	-	-	-	-	-	-
2462MHz_RX	Pass	AV	156.26M	-68.85	-57.00	-11.85	0.61	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	212.51M	-70.28	-57.00	-13.28	-0.87	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	318.26M	-64.57	-57.00	-7.57	3.22	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	215.11M	-66.92	-57.00	-9.92	0.21	3	Horizontal	0	1.5	-
2462MHz_RX	Pass	AV	314.01M	-65.35	-57.00	-8.35	3.66	3	Horizontal	0	1.5	-
2462MHz_RX	Pass	AV	356.52M	-65.89	-57.00	-8.89	4.36	3	Horizontal	0	1.5	-

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

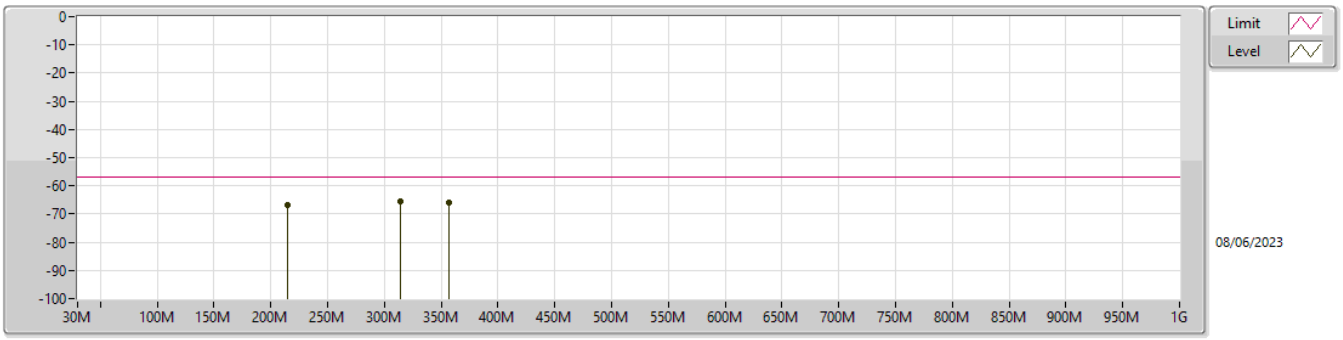
2462MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
156.26M	-68.85	-57.00	-11.85	0.61	Vertical	-69.46
212.51M	-70.28	-57.00	-13.28	-0.87	Vertical	-69.41
318.26M	-64.57	-57.00	-7.57	3.22	Vertical	-67.79

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

2462MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
215.11M	-66.92	-57.00	-9.92	0.21	Horizontal	-67.13
314.01M	-65.35	-57.00	-8.35	3.66	Horizontal	-69.01
356.52M	-65.89	-57.00	-8.89	4.36	Horizontal	-70.25

Summary

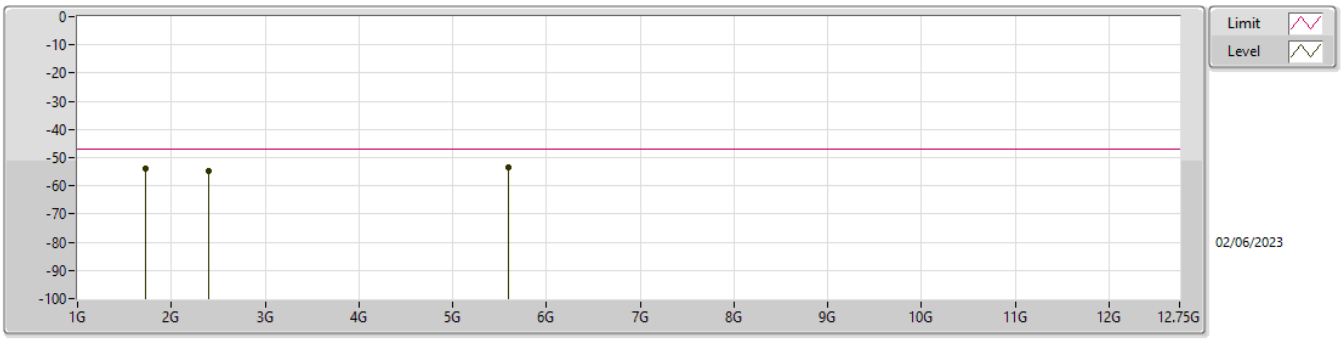
Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_(MCS0)_RX	Pass	AV	5.6002G	-53.12	-47.00	-6.12	4.00	3	Vertical	360	1.5	-
802.11ax HEW40_(MCS0)_RX	Pass	AV	1.71853G	-53.41	-47.00	-6.41	-5.20	3	Horizontal	0	1.5	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBm)	Limit (dBm)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11ax HEW20_(MCS0)_RX	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz_RX	Pass	AV	1.71853G	-53.92	-47.00	-6.92	-5.20	3	Vertical	0	1.5	-
2412MHz_RX	Pass	AV	2.39956G	-54.90	-47.00	-7.90	-2.16	3	Vertical	0	1.5	-
2412MHz_RX	Pass	AV	5.5997G	-53.38	-47.00	-6.38	4.00	3	Vertical	0	1.5	-
2412MHz_RX	Pass	AV	1.71853G	-54.37	-47.00	-7.37	-5.20	3	Horizontal	360	1.5	-
2412MHz_RX	Pass	AV	5.28818G	-55.63	-47.00	-8.63	3.52	3	Horizontal	360	1.5	-
2412MHz_RX	Pass	AV	8.68883G	-55.72	-47.00	-8.72	2.79	3	Horizontal	360	1.5	-
2472MHz_RX	Pass	AV	1.71853G	-54.74	-47.00	-7.74	-5.20	3	Vertical	360	1.5	-
2472MHz_RX	Pass	AV	2.39956G	-55.89	-47.00	-8.89	-2.16	3	Vertical	360	1.5	-
2472MHz_RX	Pass	AV	5.6002G	-53.12	-47.00	-6.12	4.00	3	Vertical	360	1.5	-
2472MHz_RX	Pass	AV	1.71853G	-53.34	-47.00	-6.34	-5.20	3	Horizontal	0	1.5	-
2472MHz_RX	Pass	AV	5.89271G	-54.36	-47.00	-7.36	4.22	3	Horizontal	0	1.5	-
2472MHz_RX	Pass	AV	8.0603G	-55.85	-47.00	-8.85	2.48	3	Horizontal	0	1.5	-
802.11ax HEW40_(MCS0)_RX	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz_RX	Pass	AV	1.71853G	-54.35	-47.00	-7.35	-5.20	3	Vertical	0	1.5	-
2422MHz_RX	Pass	AV	2.40006G	-55.97	-47.00	-8.97	-2.16	3	Vertical	0	1.5	-
2422MHz_RX	Pass	AV	4.98667G	-53.51	-47.00	-6.51	2.95	3	Vertical	0	1.5	-
2422MHz_RX	Pass	AV	1.71853G	-54.78	-47.00	-7.78	-5.20	3	Horizontal	360	1.5	-
2422MHz_RX	Pass	AV	6.28173G	-54.77	-47.00	-7.77	4.28	3	Horizontal	360	1.5	-
2422MHz_RX	Pass	AV	8.61882G	-55.59	-47.00	-8.59	2.72	3	Horizontal	360	1.5	-
2462MHz_RX	Pass	AV	1.71853G	-55.51	-47.00	-8.51	-5.20	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	2.39956G	-56.42	-47.00	-9.42	-2.16	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	5.5992G	-53.52	-47.00	-6.52	4.00	3	Vertical	360	1.5	-
2462MHz_RX	Pass	AV	1.71853G	-53.41	-47.00	-6.41	-5.20	3	Horizontal	0	1.5	-
2462MHz_RX	Pass	AV	5.7357G	-54.21	-47.00	-7.21	4.10	3	Horizontal	0	1.5	-
2462MHz_RX	Pass	AV	8.84983G	-54.93	-47.00	-7.93	2.97	3	Horizontal	0	1.5	-

2.4-2.4835GHz_802.11ax HEW20_(MCS0)_RX

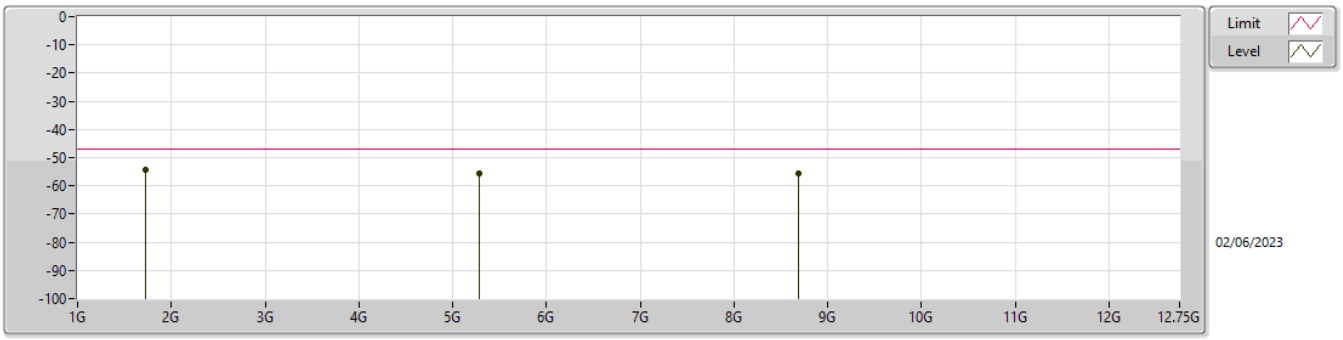
2412MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-53.92	-47.00	-6.92	-5.20	Vertical	-48.72
2.39956G	-54.90	-47.00	-7.90	-2.16	Vertical	-52.74
5.5997G	-53.38	-47.00	-6.38	4.00	Vertical	-57.38

2.4-2.4835GHz_802.11ax HEW20_(MCS0)_RX

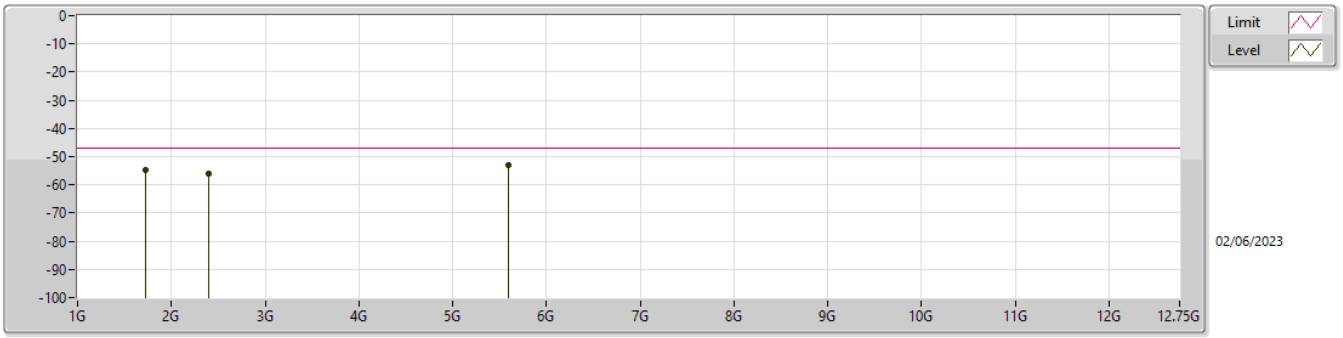
2412MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-54.37	-47.00	-7.37	-5.20	Horizontal	-49.17
5.28818G	-55.63	-47.00	-8.63	3.52	Horizontal	-59.15
8.68883G	-55.72	-47.00	-8.72	2.79	Horizontal	-58.51

2.4-2.4835GHz_802.11ax HEW20_(MCS0)_RX

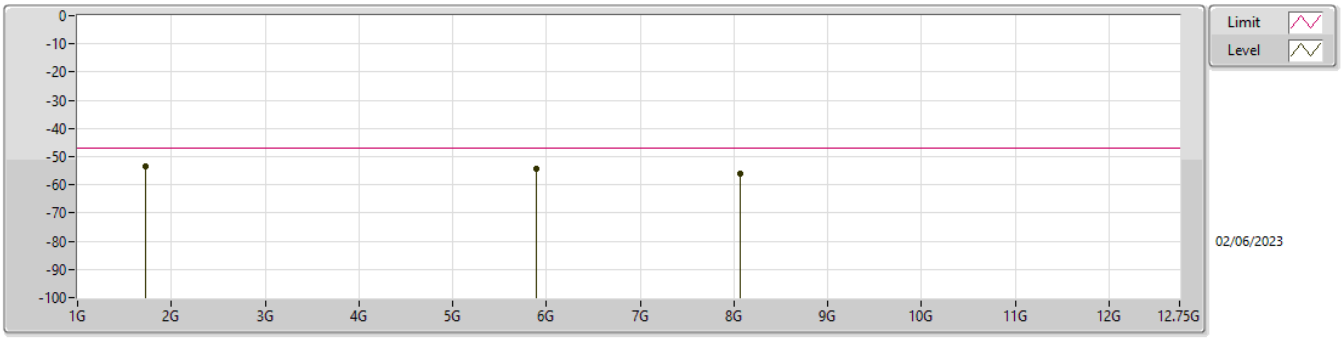
2472MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-54.74	-47.00	-7.74	-5.20	Vertical	-49.54
2.39956G	-55.89	-47.00	-8.89	-2.16	Vertical	-53.73
5.6002G	-53.12	-47.00	-6.12	4.00	Vertical	-57.12

2.4-2.4835GHz_802.11ax HEW20_(MCS0)_RX

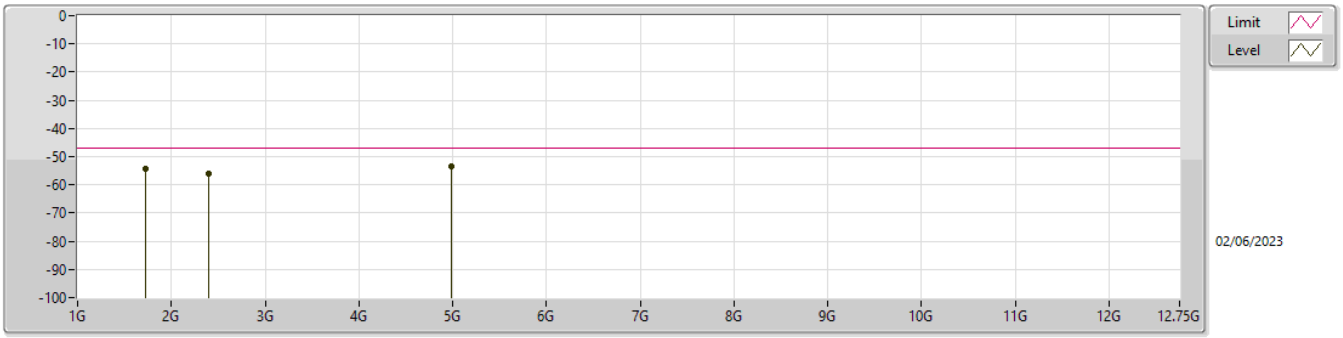
2472MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-53.34	-47.00	-6.34	-5.20	Horizontal	-48.14
5.89271G	-54.36	-47.00	-7.36	4.22	Horizontal	-58.58
8.0603G	-55.85	-47.00	-8.85	2.48	Horizontal	-58.33

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

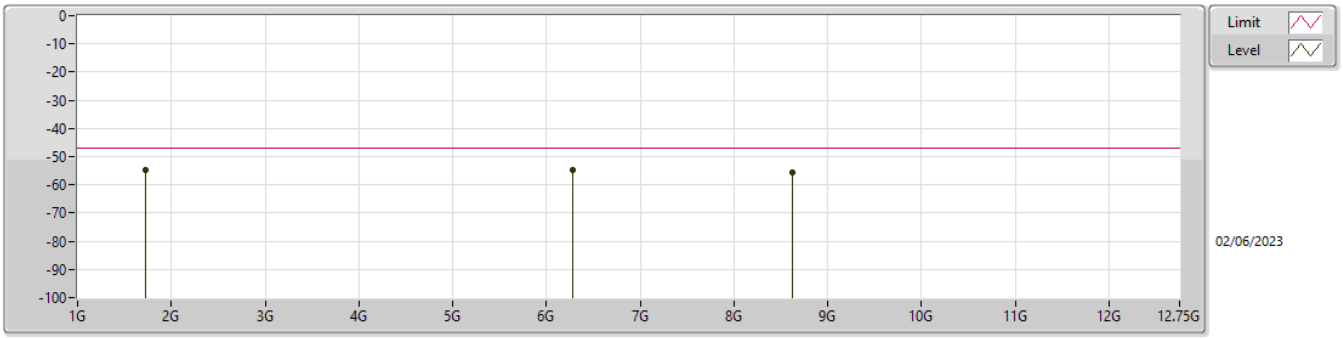
2422MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-54.35	-47.00	-7.35	-5.20	Vertical	-49.15
2.40006G	-55.97	-47.00	-8.97	-2.16	Vertical	-53.81
4.98667G	-53.51	-47.00	-6.51	2.95	Vertical	-56.46

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

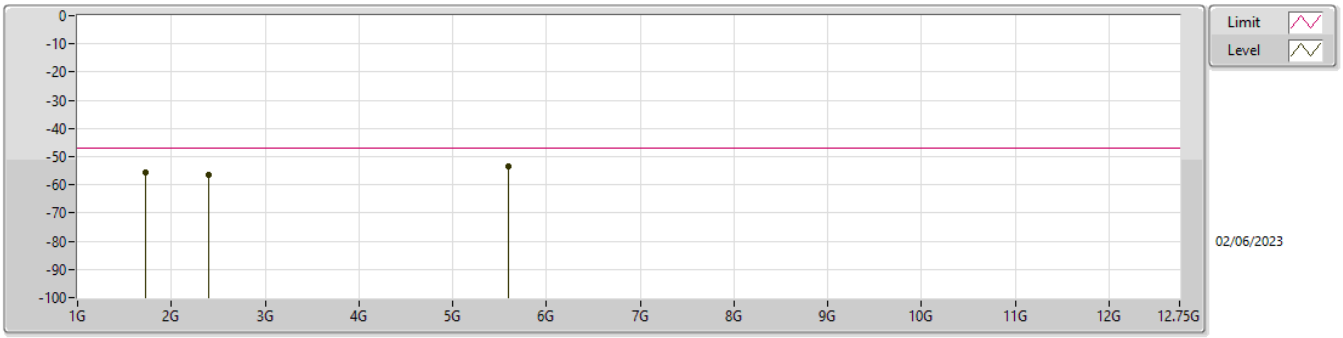
2422MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-54.78	-47.00	-7.78	-5.20	Horizontal	-49.58
6.28173G	-54.77	-47.00	-7.77	4.28	Horizontal	-59.05
8.61882G	-55.59	-47.00	-8.59	2.72	Horizontal	-58.31

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

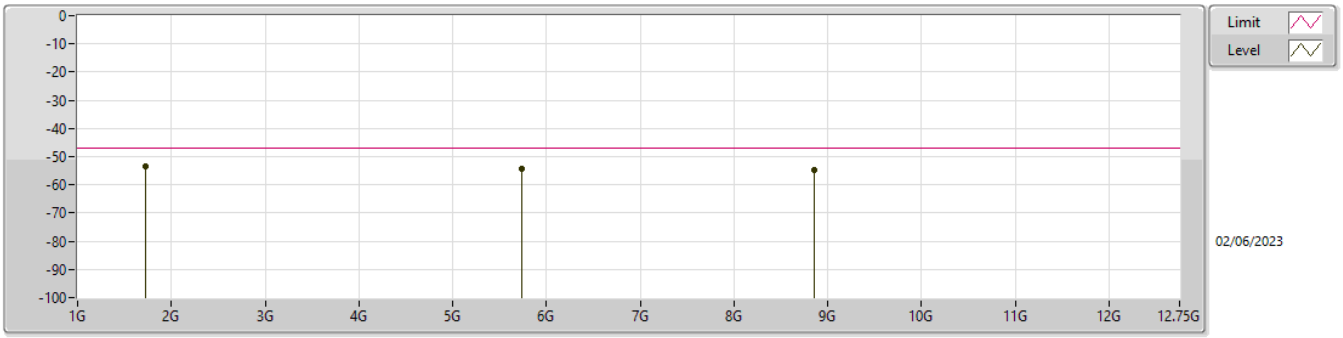
2462MHz_RX



Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-55.51	-47.00	-8.51	-5.20	Vertical	-50.31
2.39956G	-56.42	-47.00	-9.42	-2.16	Vertical	-54.26
5.5992G	-53.52	-47.00	-6.52	4.00	Vertical	-57.52

2.4-2.4835GHz_802.11ax HEW40_(MCS0)_RX

2462MHz_RX

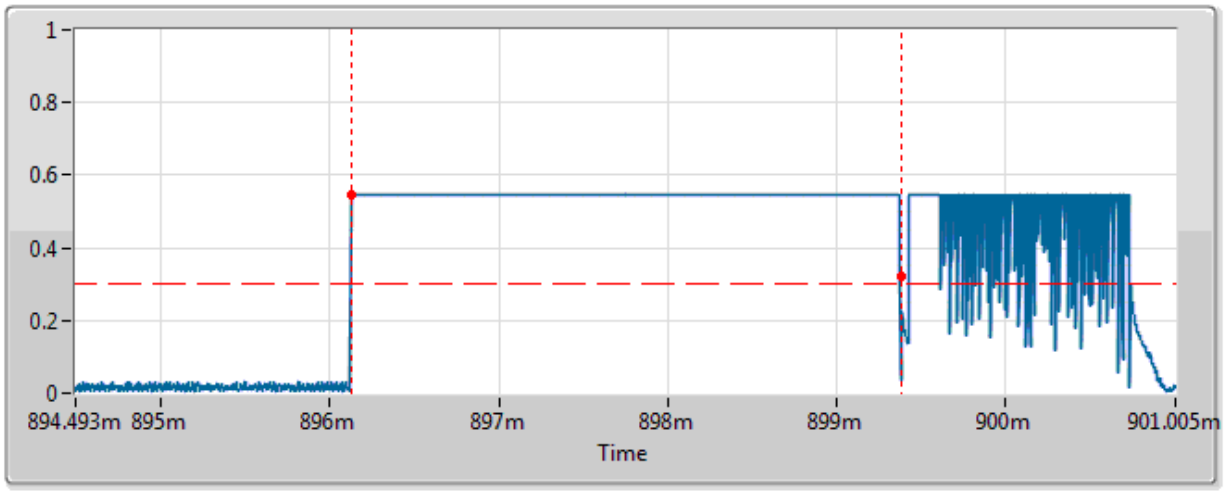


Freq	Level	Limit	Margin	Factor	Condition	Raw
(Hz)	(dBm)	(dBm)	(dB)	(dB)		(dBm)
1.71853G	-53.41	-47.00	-6.41	-5.20	Horizontal	-48.21
5.7357G	-54.21	-47.00	-7.21	4.10	Horizontal	-58.31
8.84983G	-54.93	-47.00	-7.93	2.97	Horizontal	-57.90

Adaptivity & Unwanted signal Result						
Adaptivity Detection Threshold Level		**-70 dBm/MHz**				
Unwanted signal Level		**-30 dBm**				
Modulation Mode	**Freq. (MHz)**	**Adaptivity**	**Unwanted signal Test Status**	**Short Control Signaling Transmissions (ms)**	**Channel Occupancy Time (ms)**	**Idle Period (us)**
802.11b	2412	Pass	Pass	0.305	3.257	35.000
802.11b	2472	Pass	Pass	0.305	3.257	35.000
802.11g	2412	Pass	Pass	3.403	3.257	28.000
802.11g	2472	Pass	Pass	0.304	3.257	45.000
802.11ax (HEW20)	2412	Pass	Pass	3.272	4.879	33.000
802.11ax (HEW20)	2472	Pass	Pass	0.304	5.408	46.000
802.11ax (HEW40)	2422	Pass	Pass	0.000	5.064	29.000
802.11ax (HEW40)	2462	Pass	Pass	0.014	5.412	45.000
Limit		N/A	N/A	5	N/A	N/A
Result		**Complied**				
Note: Channel Occupancy Time and Idle Period Time follow as IEEE 802.11™ [i.3], clause 10, clause 11, clause 15, clause 16, clause 18 and clause 19, or in IEEE 802.15.4™ [i.4], clause 5, clause 6 and clause 10 specification without restriction.						

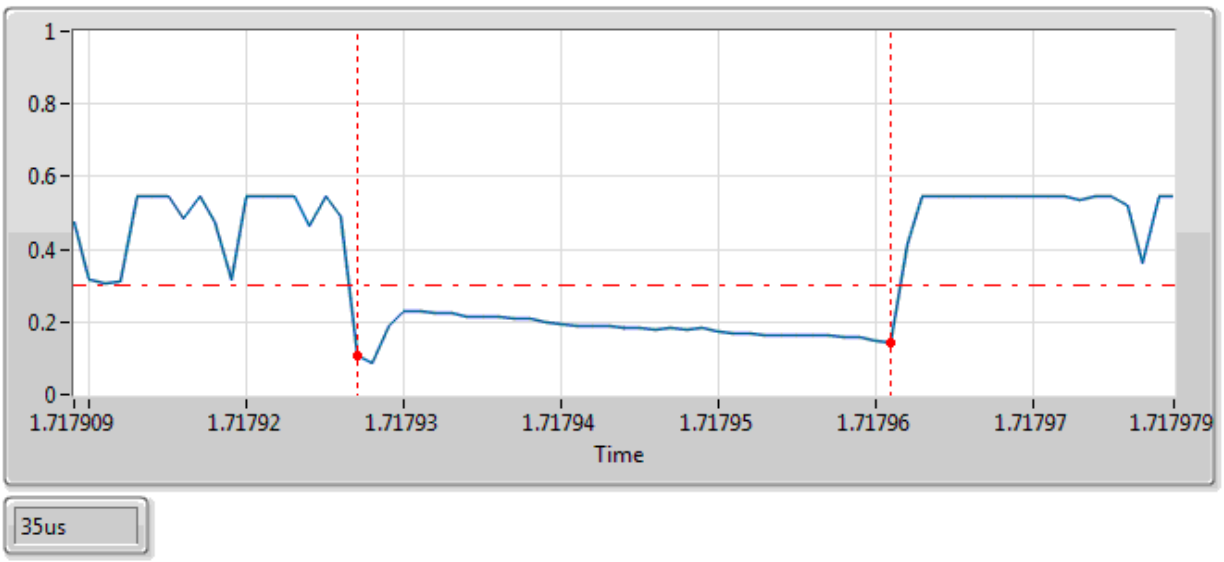
802.11b – 2412 MHz
Channel Occupancy Time

Max On Time

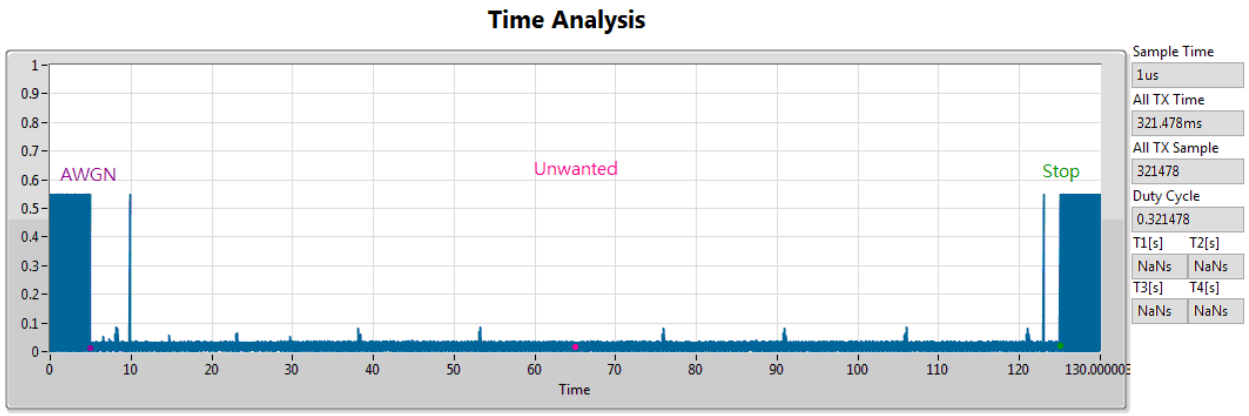


Idle Period

Min Off Time

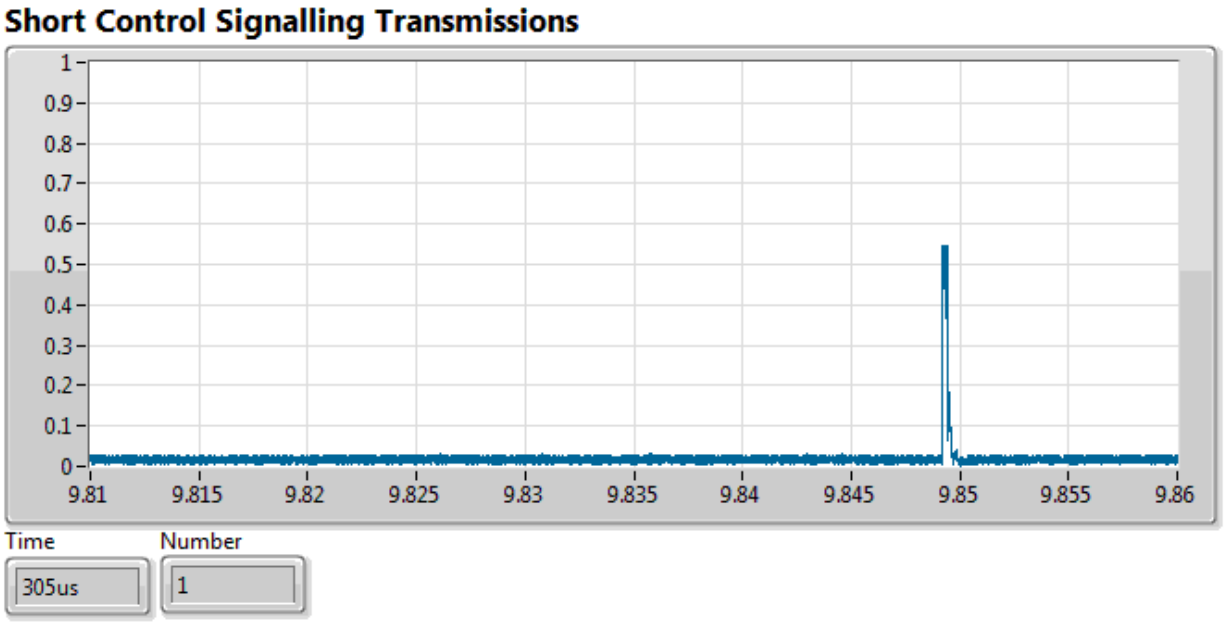


Adaptivity & Unwanted Signal Plots



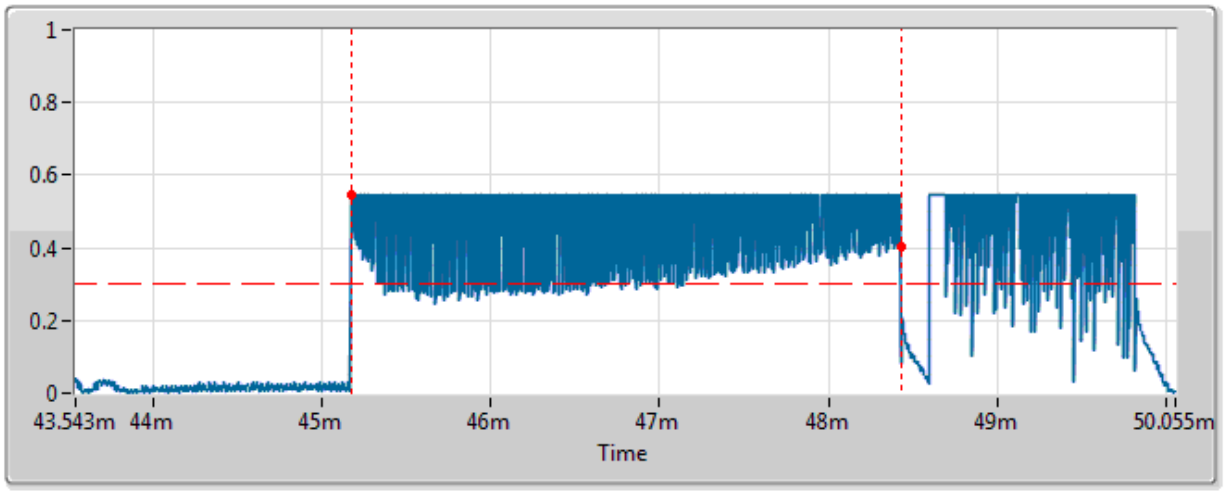
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2488.5 MHz.

Short Control Signaling Transmissions Plots



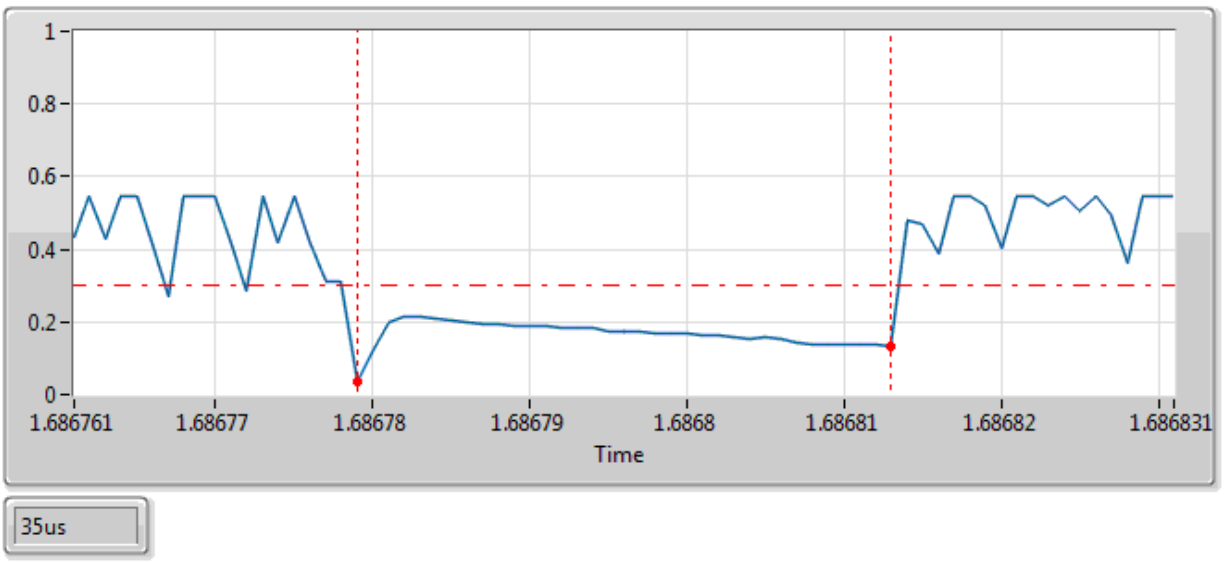
802.11b – 2472 MHz
Channel Occupancy Time

Max On Time

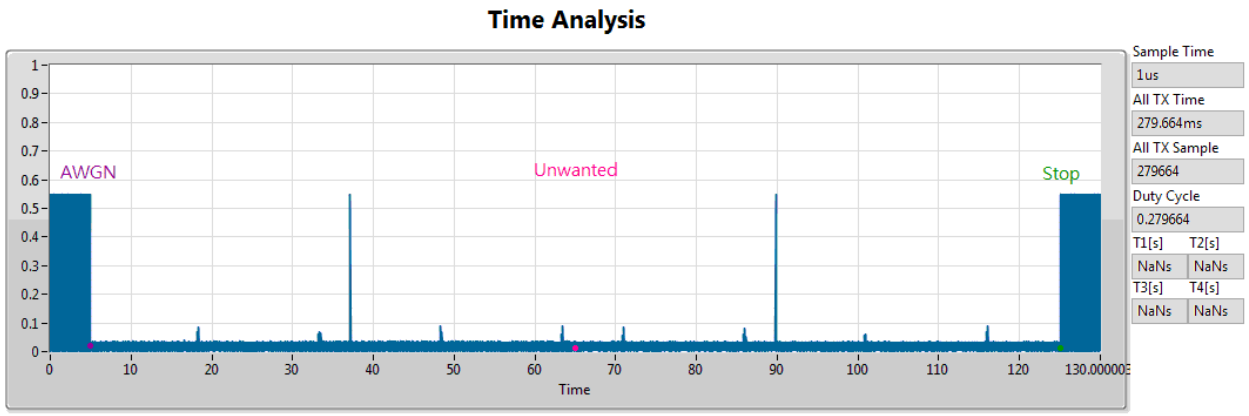


Idle Period

Min Off Time

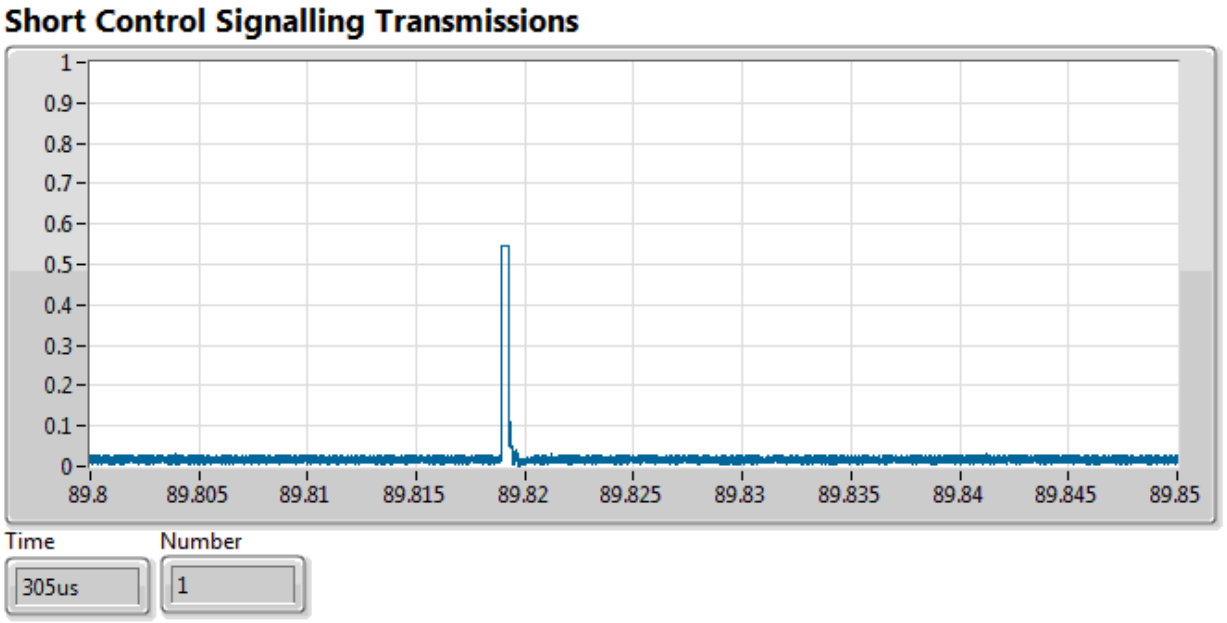


Adaptivity & Unwanted Signal Plots



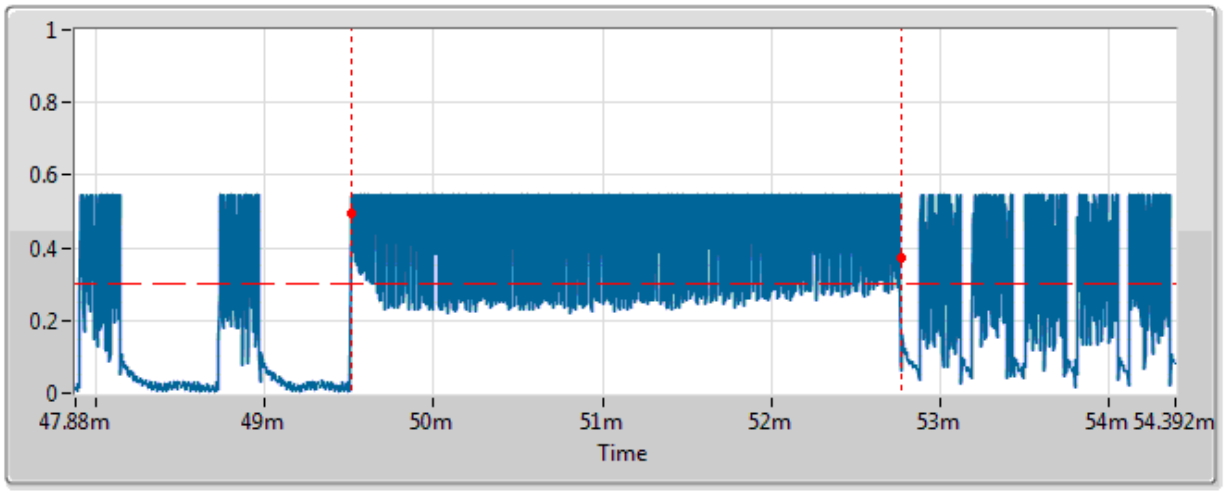
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2395 MHz.

Short Control Signaling Transmissions Plots



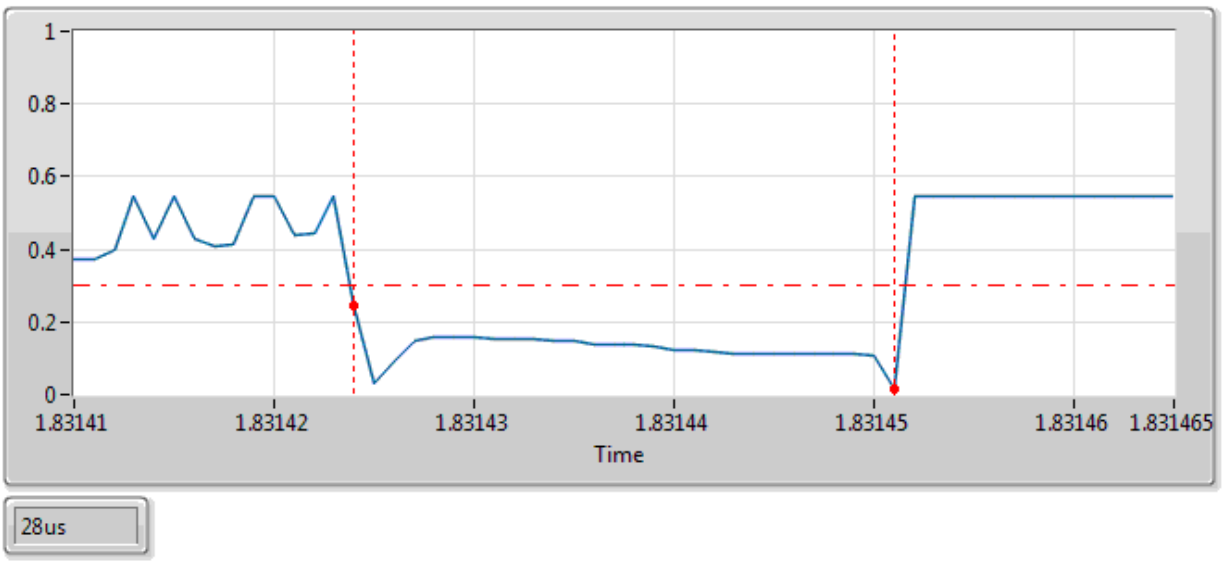
802.11g – 2412 MHz
Channel Occupancy Time

Max On Time

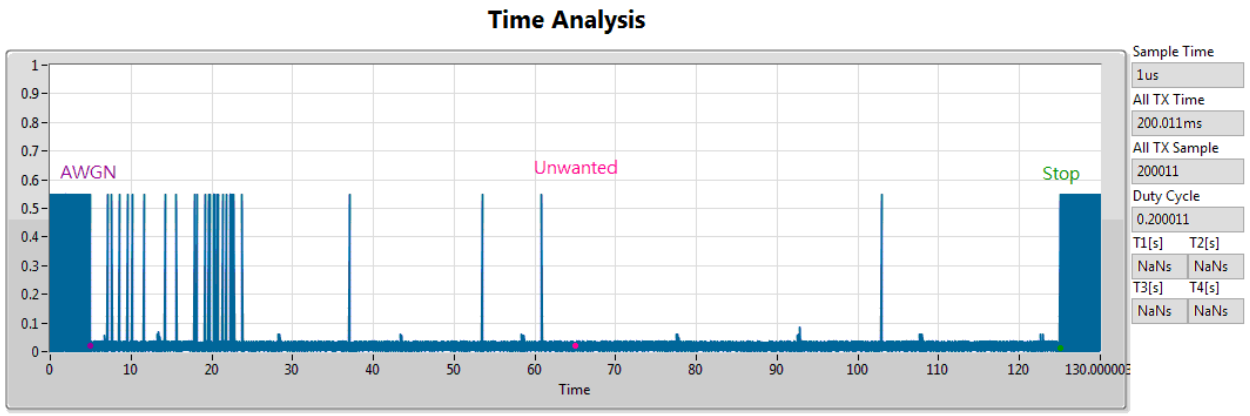


Idle Period

Min Off Time

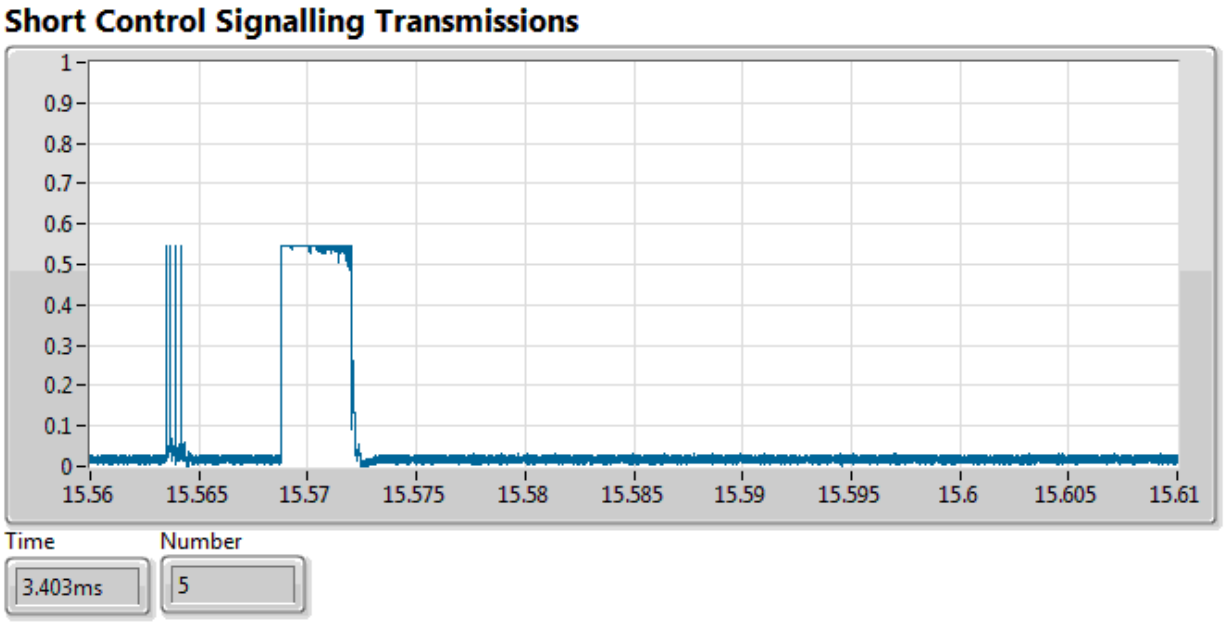


Adaptivity & Unwanted Signal Plots



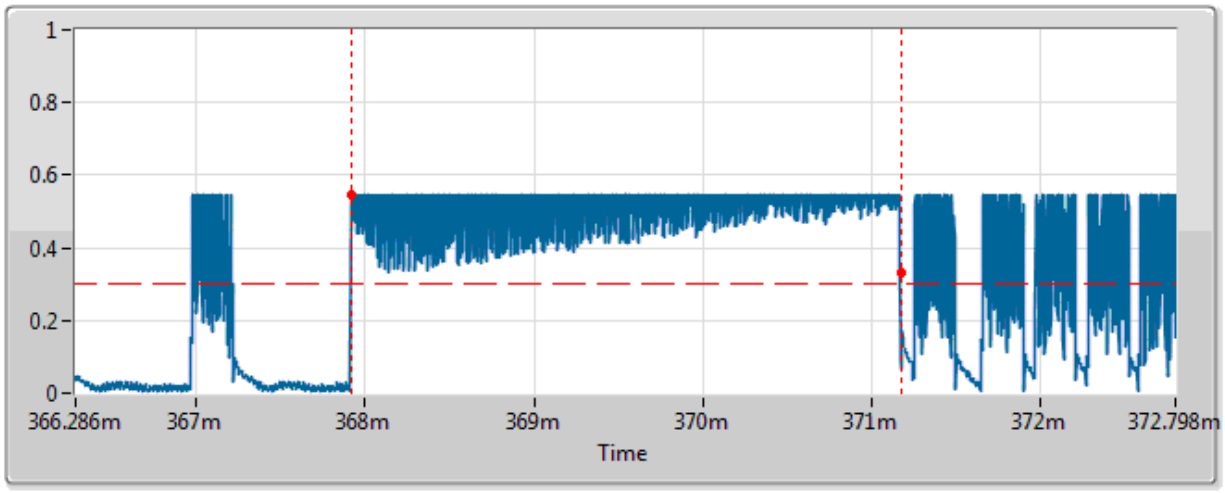
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2488.5 MHz.

Short Control Signaling Transmissions Plots



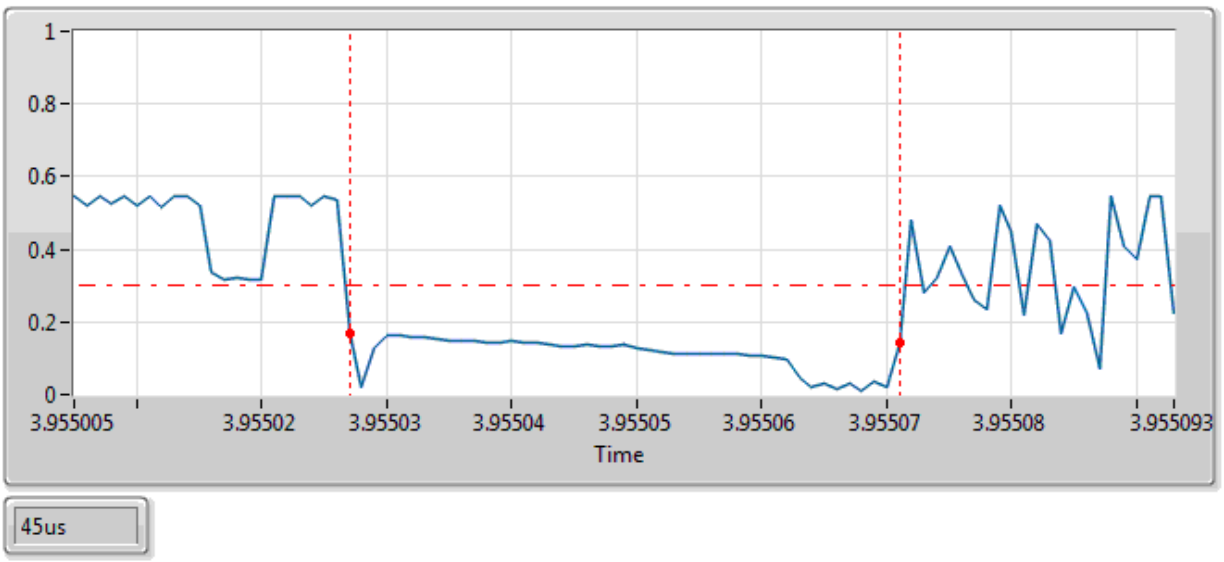
802.11g – 2472 MHz
Channel Occupancy Time

Max On Time

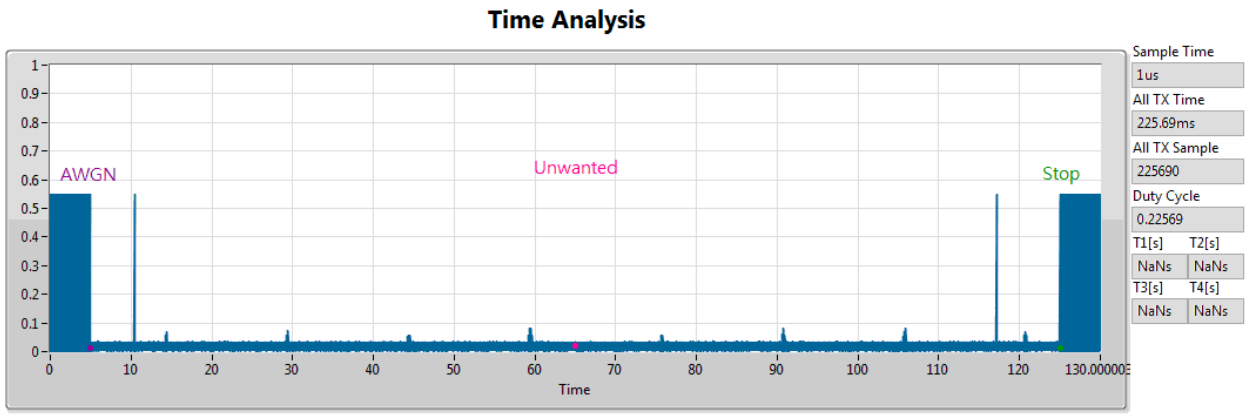


Idle Period

Min Off Time

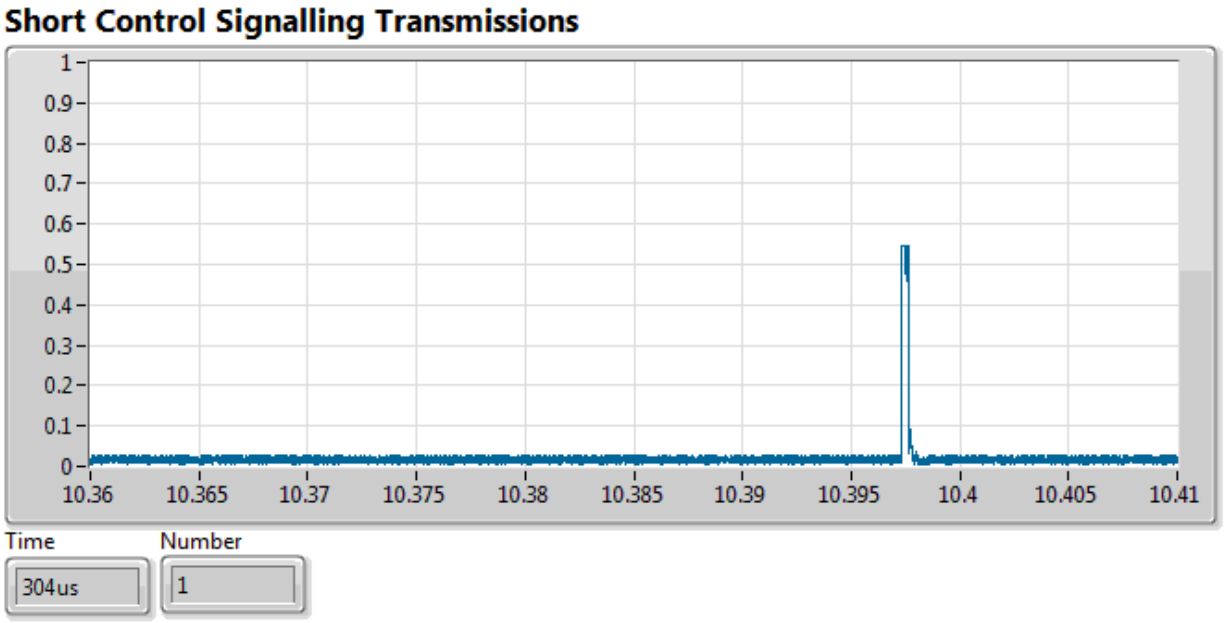


Adaptivity & Unwanted Signal Plots



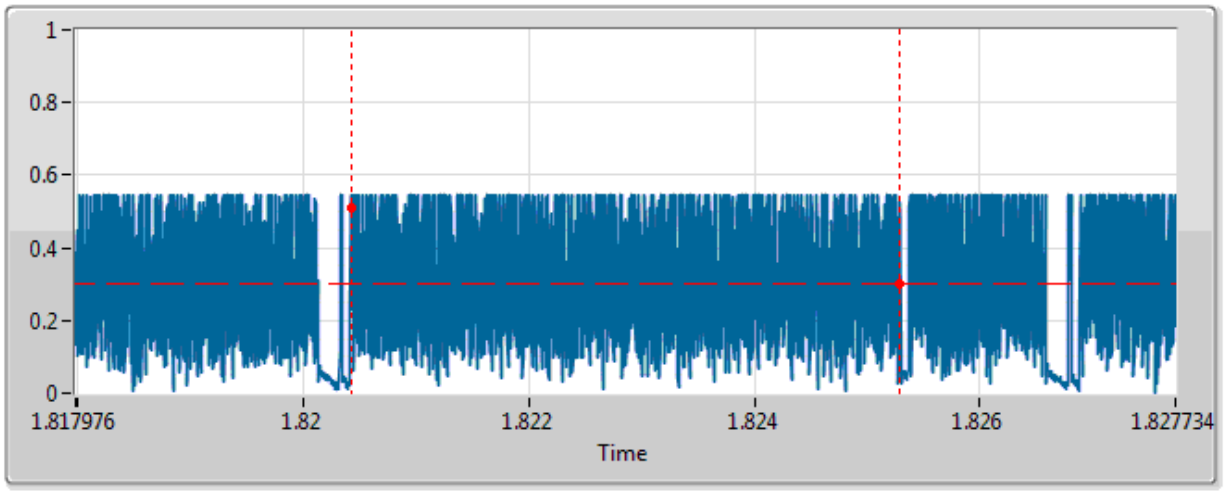
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2395 MHz.

Short Control Signaling Transmissions Plots



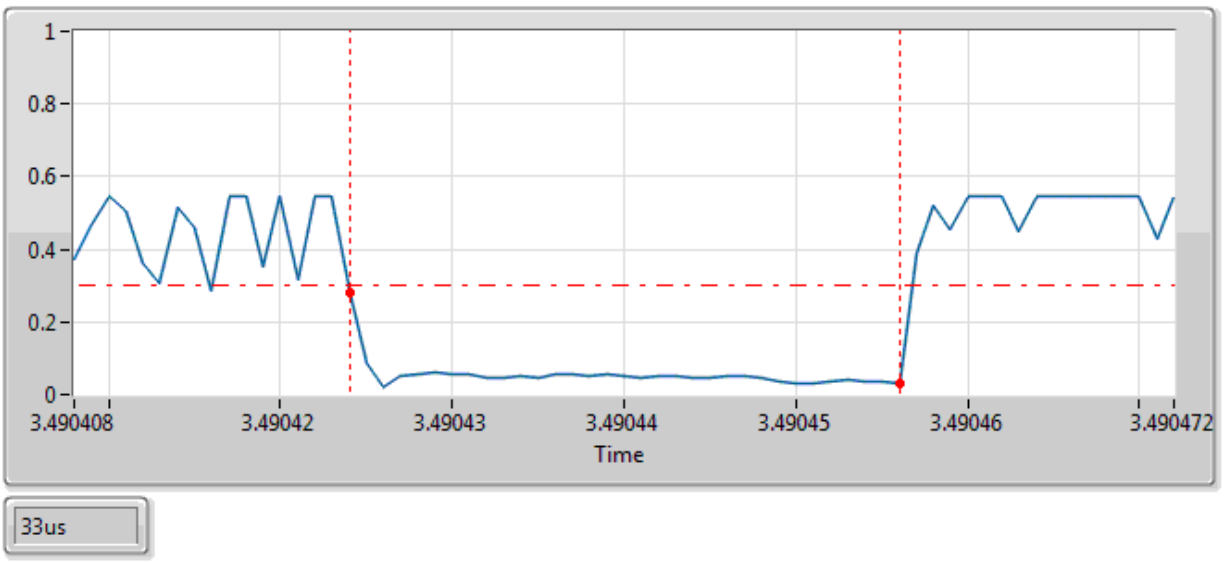
802.11ax (HEW20) – 2412 MHz
Channel Occupancy Time

Max On Time

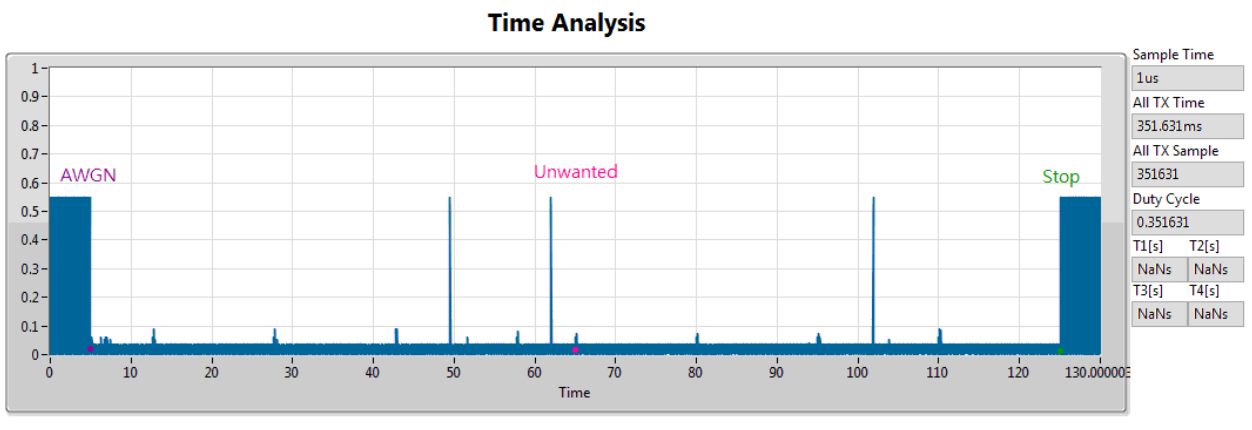


Idle Period

Min Off Time

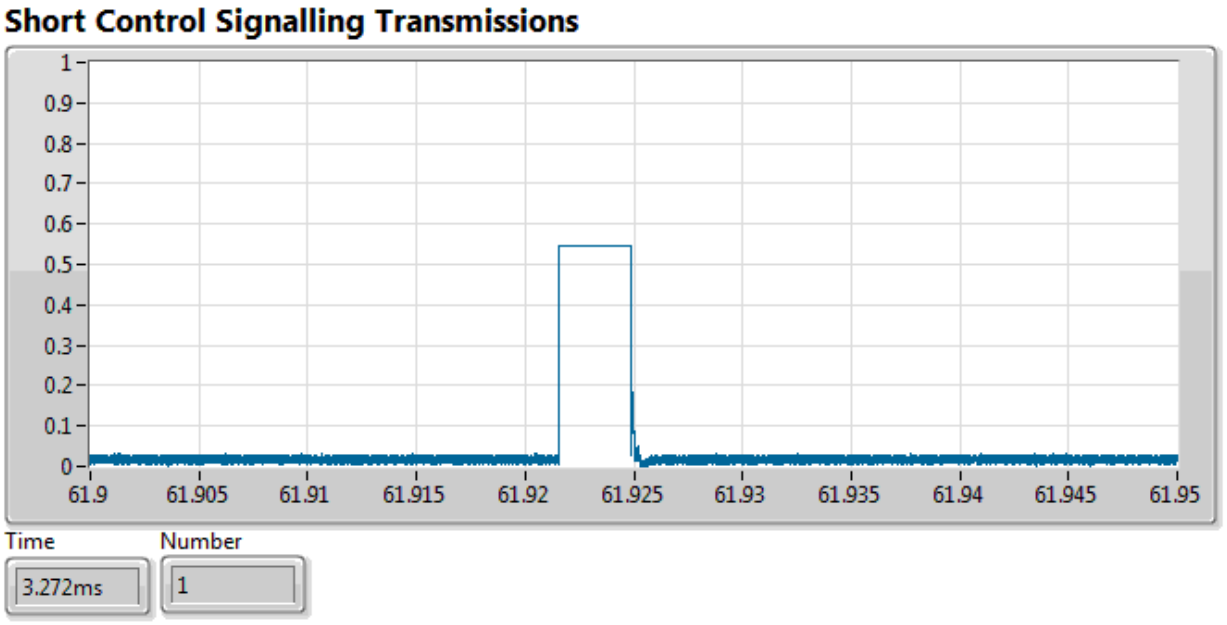


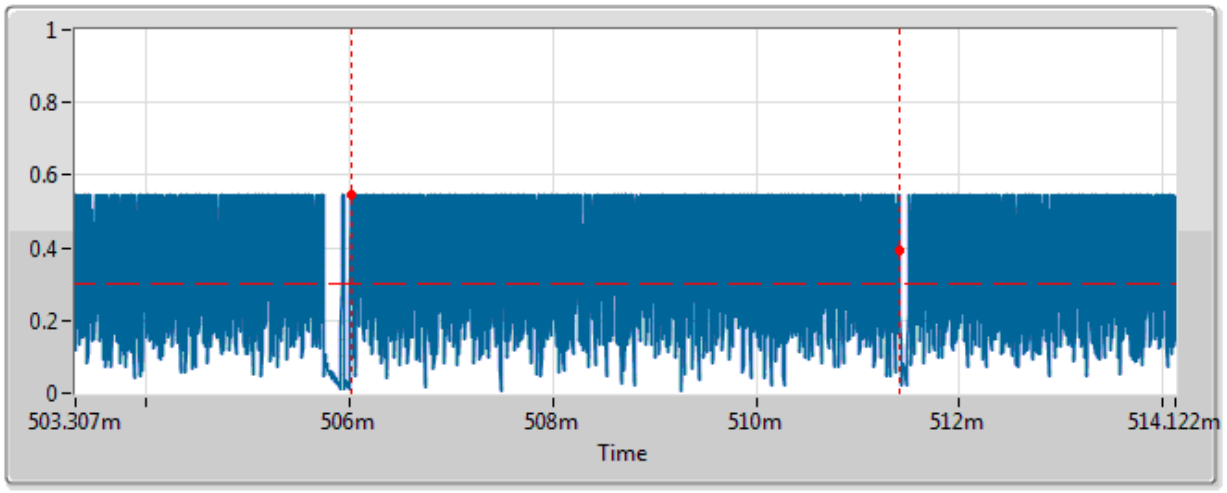
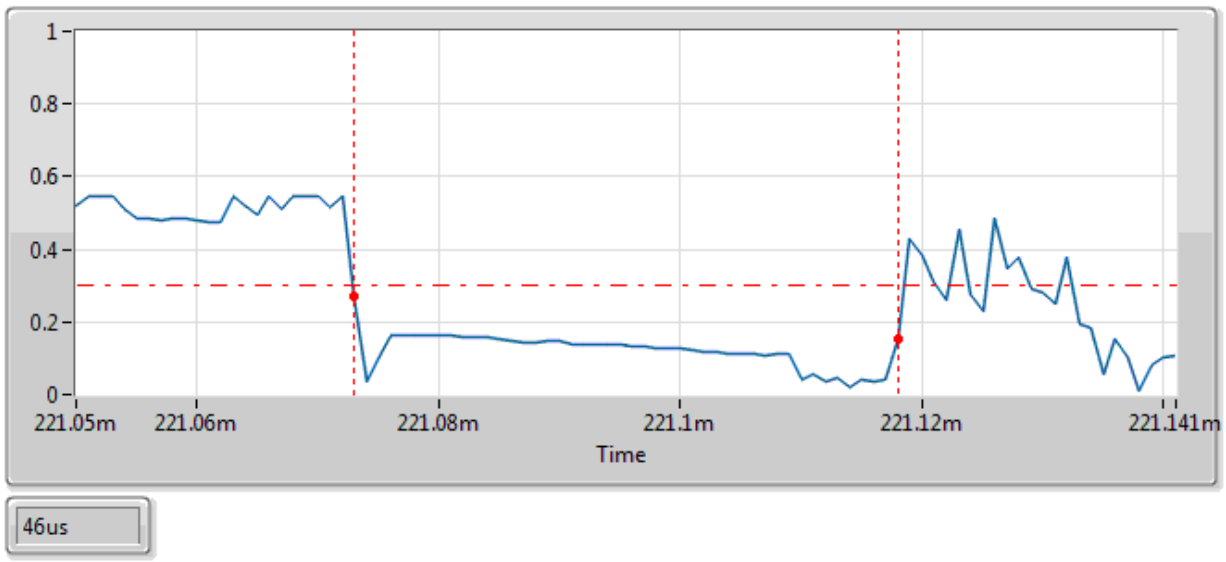
Adaptivity & Unwanted Signal Plots



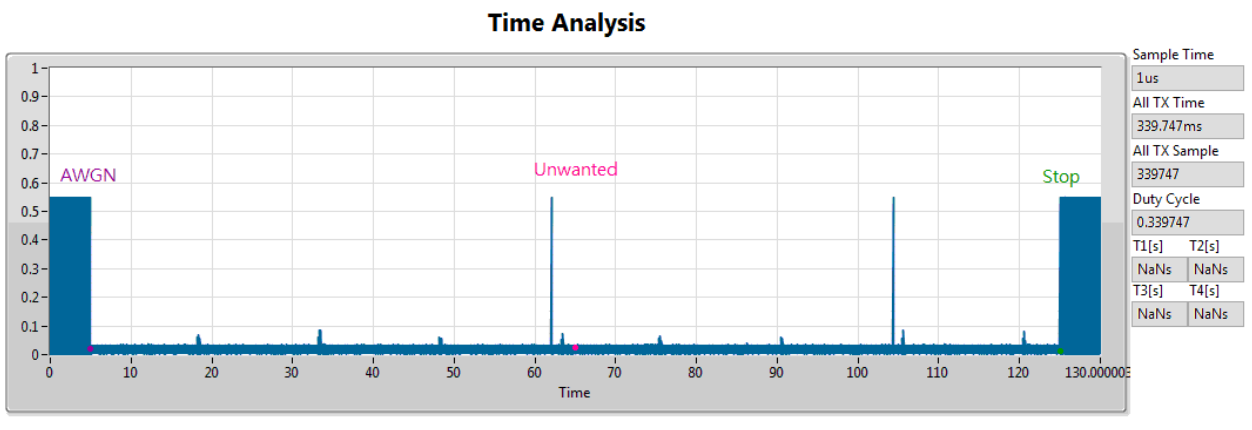
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2488.5 MHz.

Short Control Signaling Transmissions Plots



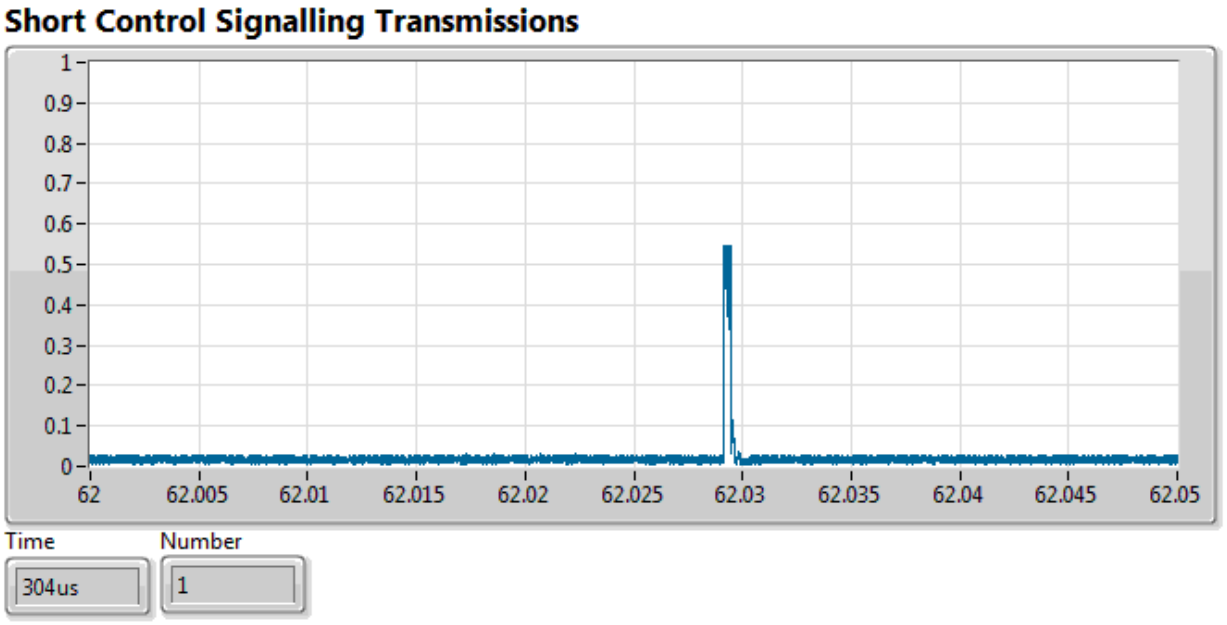
802.11ax (HEW20) – 2472 MHz
Channel Occupancy Time
Max On Time 
Idle Period
Min Off Time 

Adaptivity & Unwanted Signal Plots



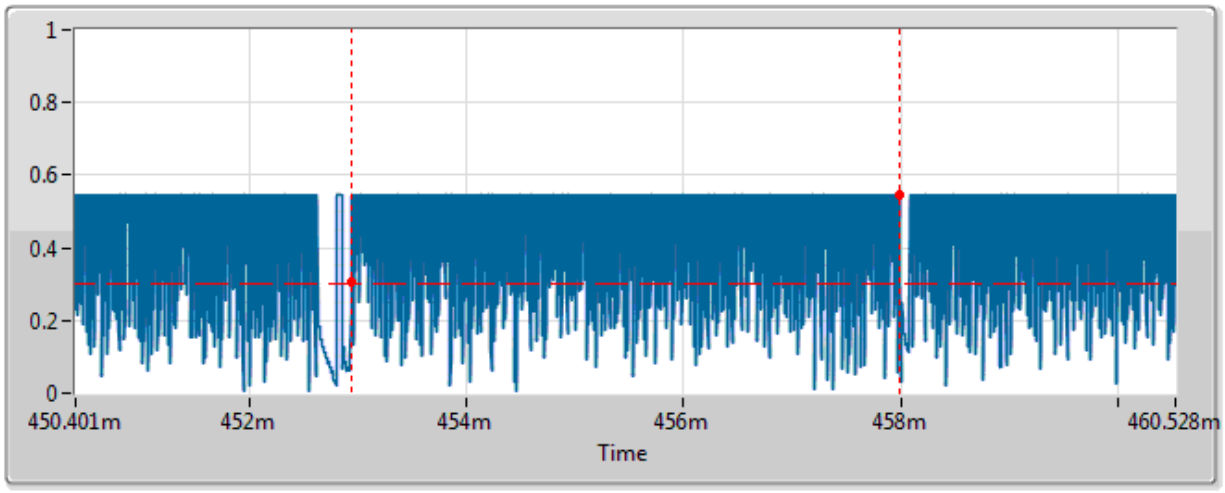
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2395 MHz.

Short Control Signaling Transmissions Plots



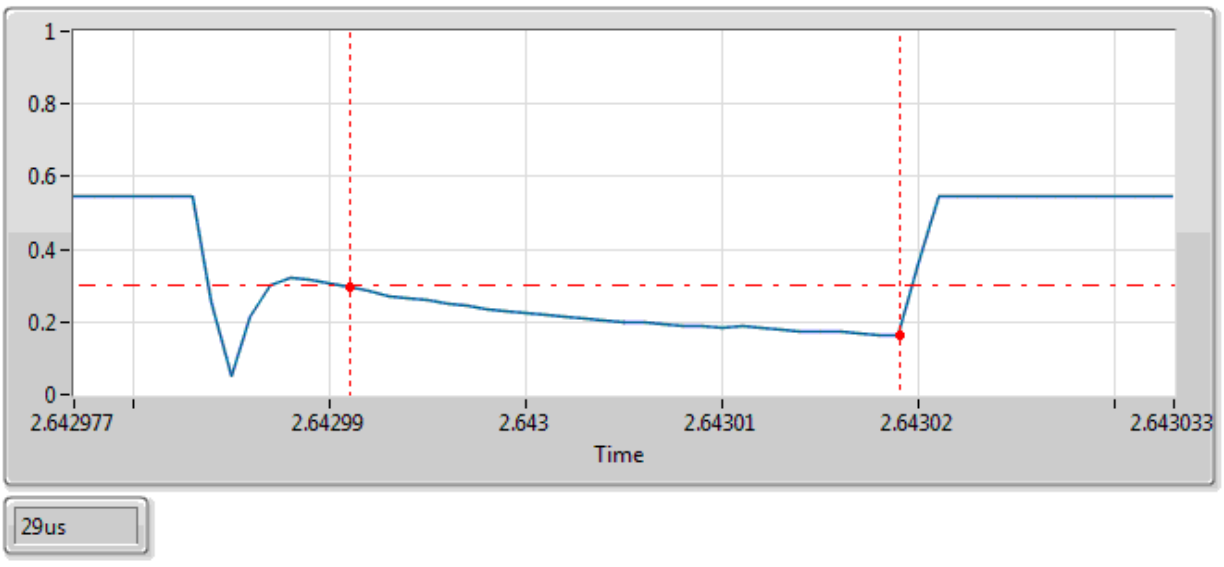
802.11ax (HEW40) – 2422 MHz
Channel Occupancy Time

Max On Time

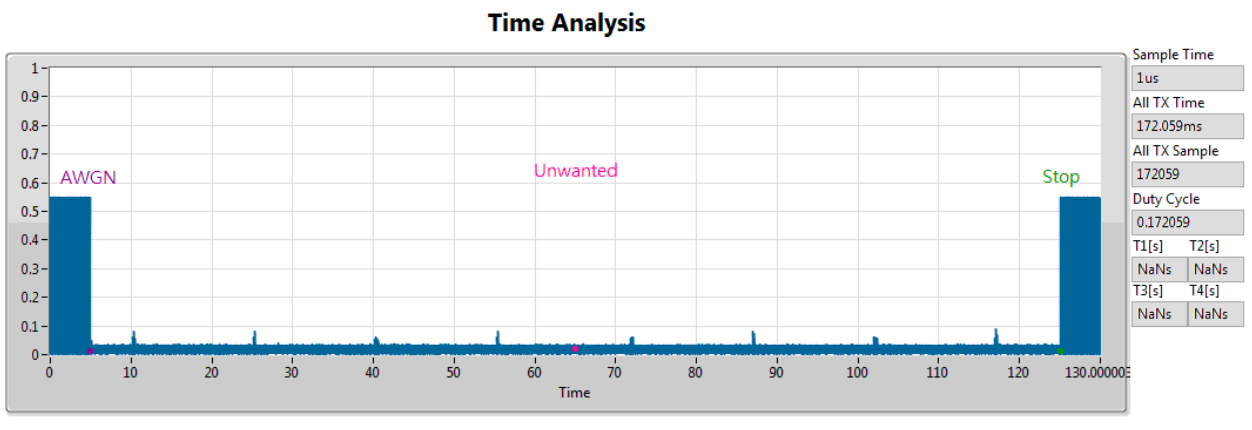


Idle Period

Min Off Time

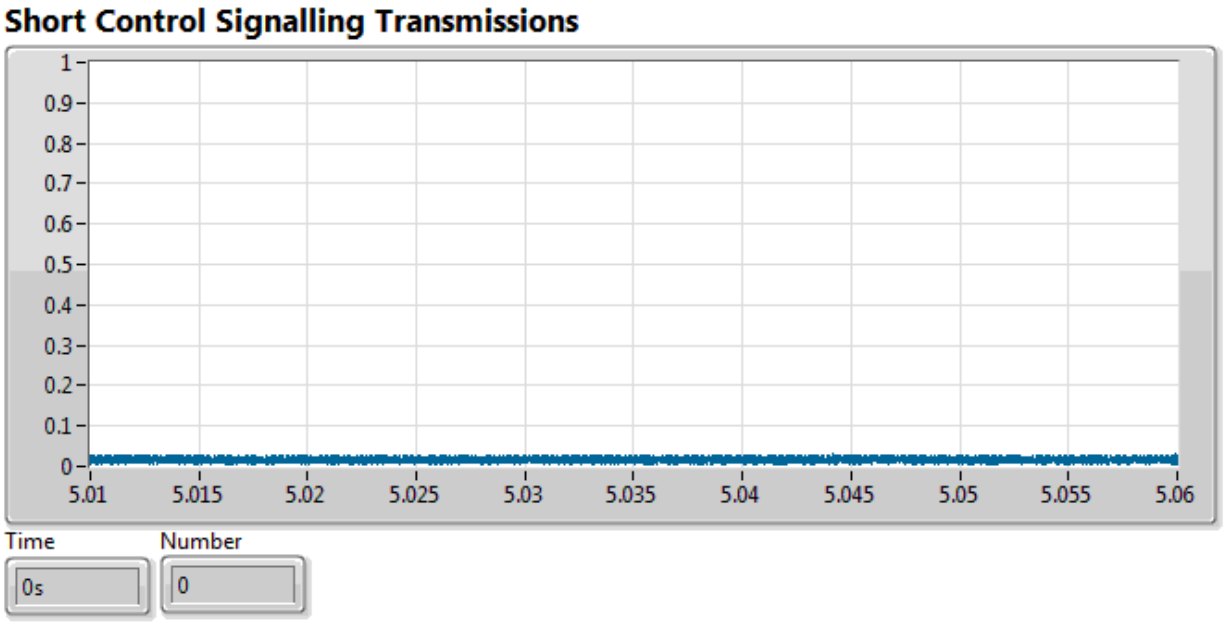


Adaptivity & Unwanted Signal Plots



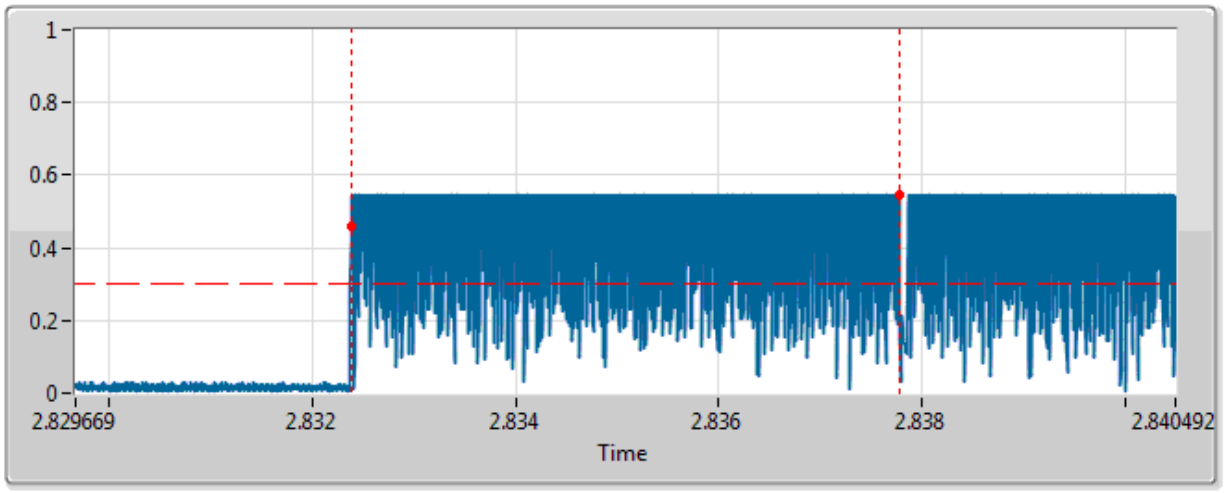
AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2488.5 MHz.

Short Control Signaling Transmissions Plots



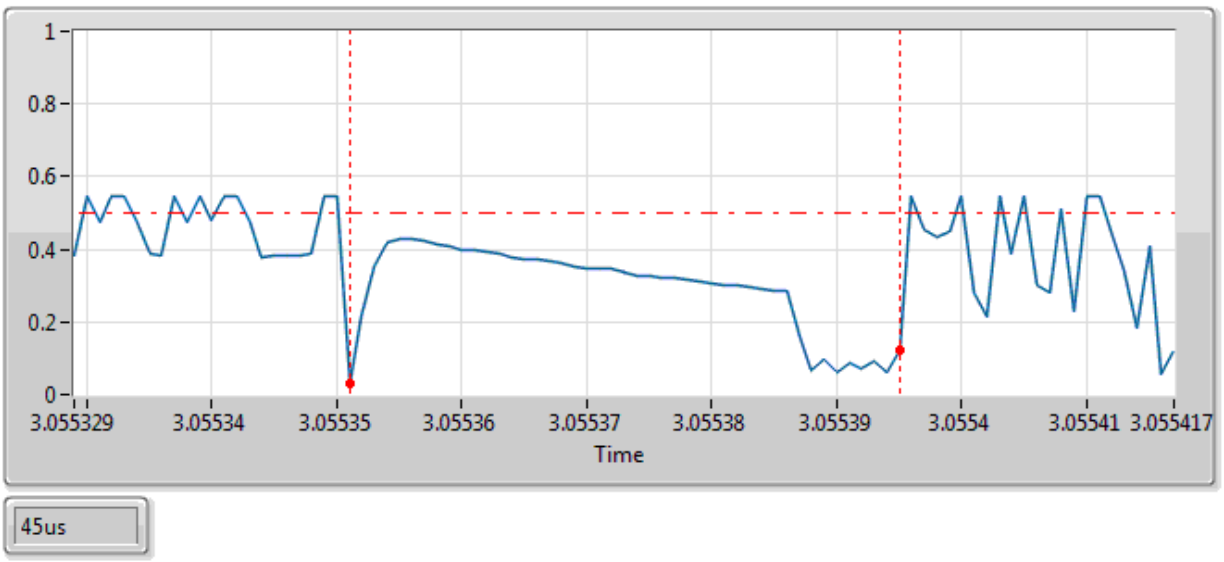
802.11ax (HEW40) – 2462 MHz
Channel Occupancy Time

Max On Time

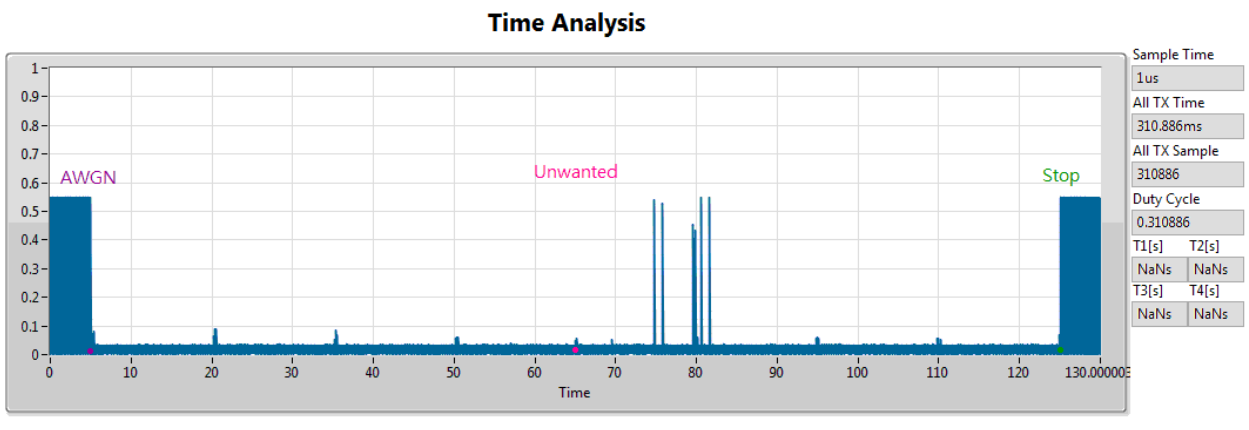


Idle Period

Min Off Time

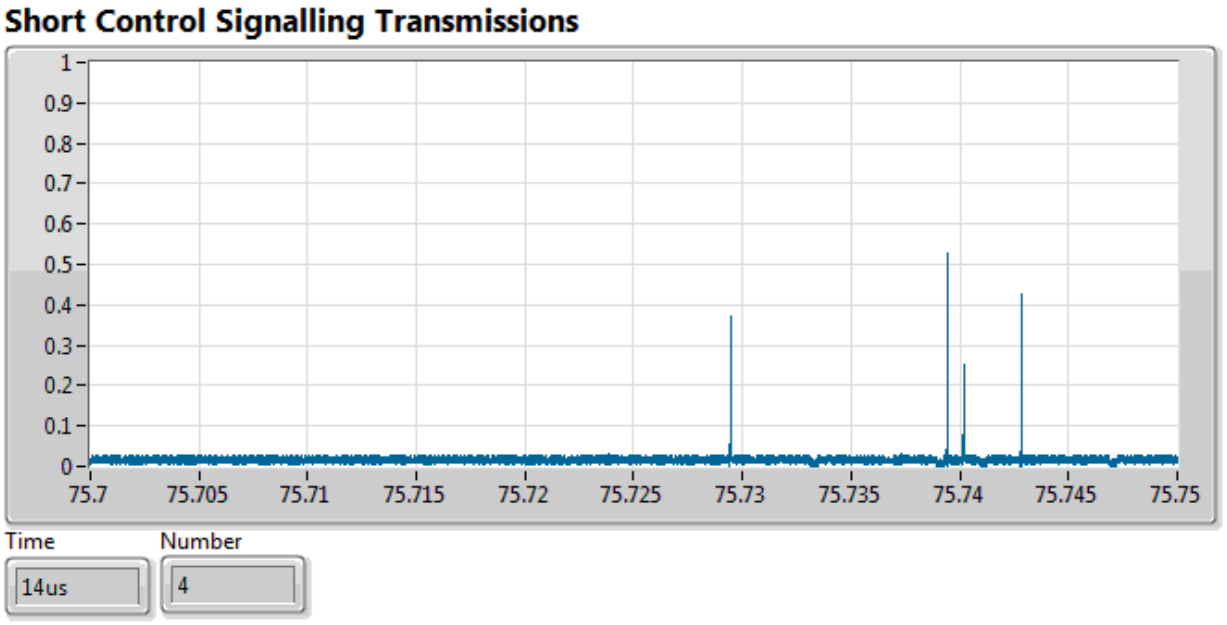


Adaptivity & Unwanted Signal Plots



AWGN : Adding the interference signal.
Unwanted : Adding the Unwanted signal on 2395 MHz.

Short Control Signaling Transmissions Plots



Receiver Blocking Result						
P_{min}(dBm)	-92					
Modulation Mode	**Operation Frequency (MHz)**	**Wanted Signal Mean Power from Companion Device (dBm)**	**Receiver Blocking Power (dBm)**	**Blocking Signal Frequency (MHz)**	**Type of Blocking Signal**	**Test Result**
802.11b	2412	-63	-29	2380	CW	Pass
	2412	-69	-29	2300	CW	Pass
	2412	-69	-29	2330	CW	Pass
	2412	-69	-29	2360	CW	Pass
Limit	PER(Packet Error Rate) ≦ 10%					
Result	**Complied**					

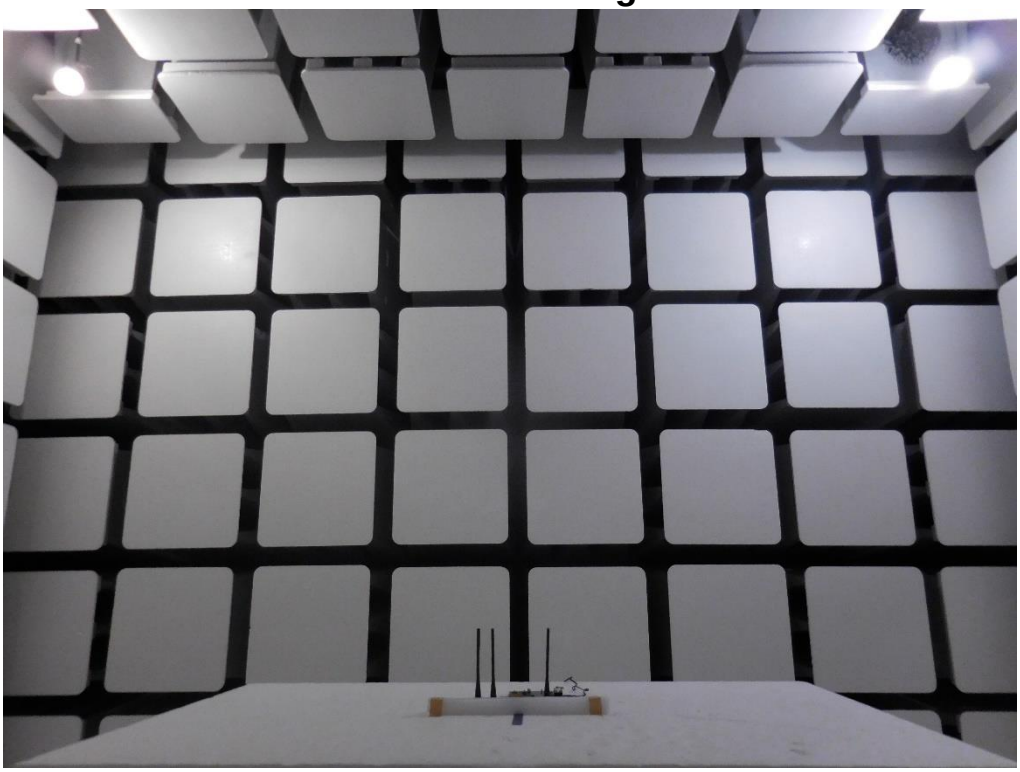
Receiver Blocking Result						
P_{min}(dBm)	-93					
Modulation Mode	**Operation Frequency (MHz)**	**Wanted Signal Mean Power from Companion Device (dBm)**	**Receiver Blocking Power (dBm)**	**Blocking Signal Frequency (MHz)**	**Type of Blocking Signal**	**Test Result**
802.11b	2472	-63	-29	2504	CW	Pass
	2472	-69	-29	2524	CW	Pass
	2472	-69	-29	2584	CW	Pass
	2472	-69	-29	2674	CW	Pass
Limit	PER(Packet Error Rate) ≦ 10%					
Result	**Complied**					

Receiver Blocking Result						
P_{min}(dBm)	-88					
Modulation Mode	**Operation Frequency (MHz)**	**Wanted Signal Mean Power from Companion Device (dBm)**	**Receiver Blocking Power (dBm)**	**Blocking Signal Frequency (MHz)**	**Type of Blocking Signal**	**Test Result**
802.11g	2412	-63	-29	2380	CW	Pass
	2412	-69	-29	2300	CW	Pass
	2412	-69	-29	2330	CW	Pass
	2412	-69	-29	2360	CW	Pass
Limit	PER(Packet Error Rate) ≦ 10%					
Result	**Complied**					

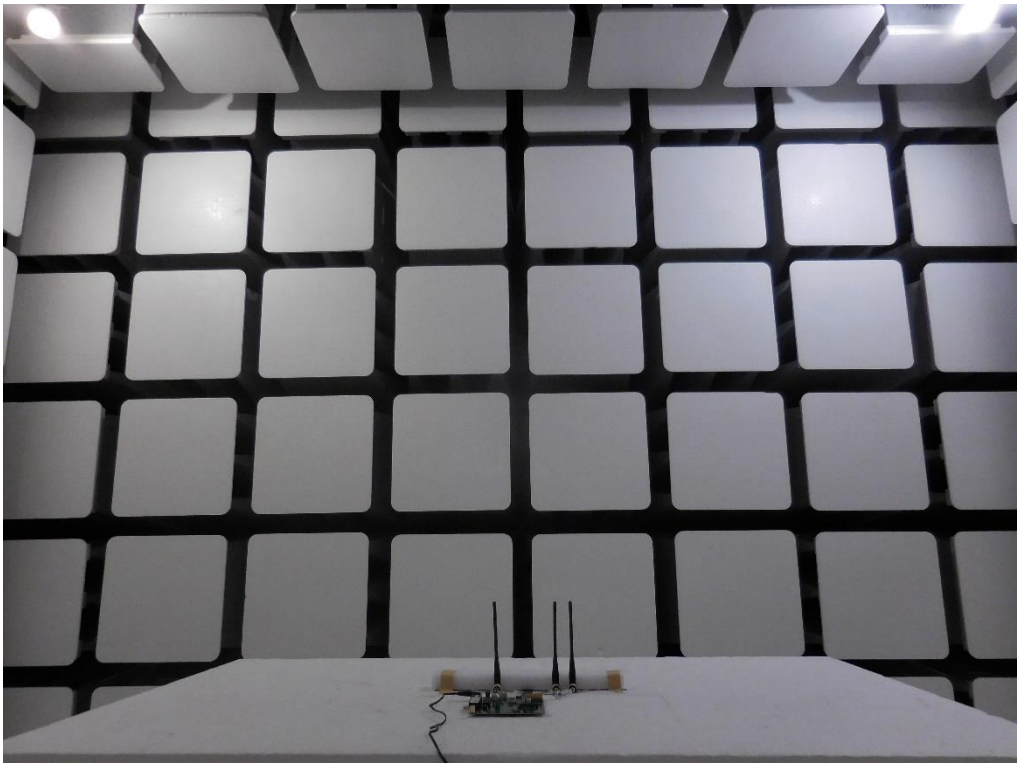
Receiver Blocking Result						
P_{min}(dBm)	-89					
Modulation Mode	**Operation Frequency (MHz)**	**Wanted Signal Mean Power from Companion Device (dBm)**	**Receiver Blocking Power (dBm)**	**Blocking Signal Frequency (MHz)**	**Type of Blocking Signal**	**Test Result**
802.11g	2472	-63	-29	2504	CW	Pass
	2472	-69	-29	2524	CW	Pass
	2472	-69	-29	2584	CW	Pass
	2472	-69	-29	2674	CW	Pass
Limit	PER(Packet Error Rate) ≦ 10%					
Result	**Complied**					

1. Photographs of Radiated Emissions Test Configuration

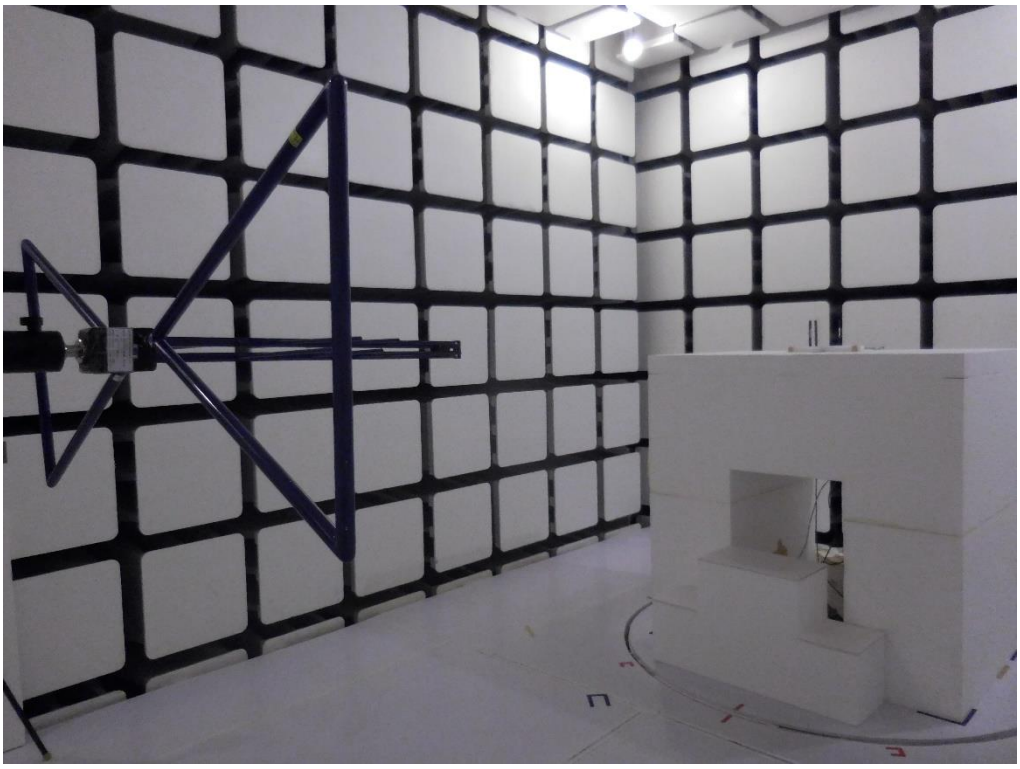
Front view



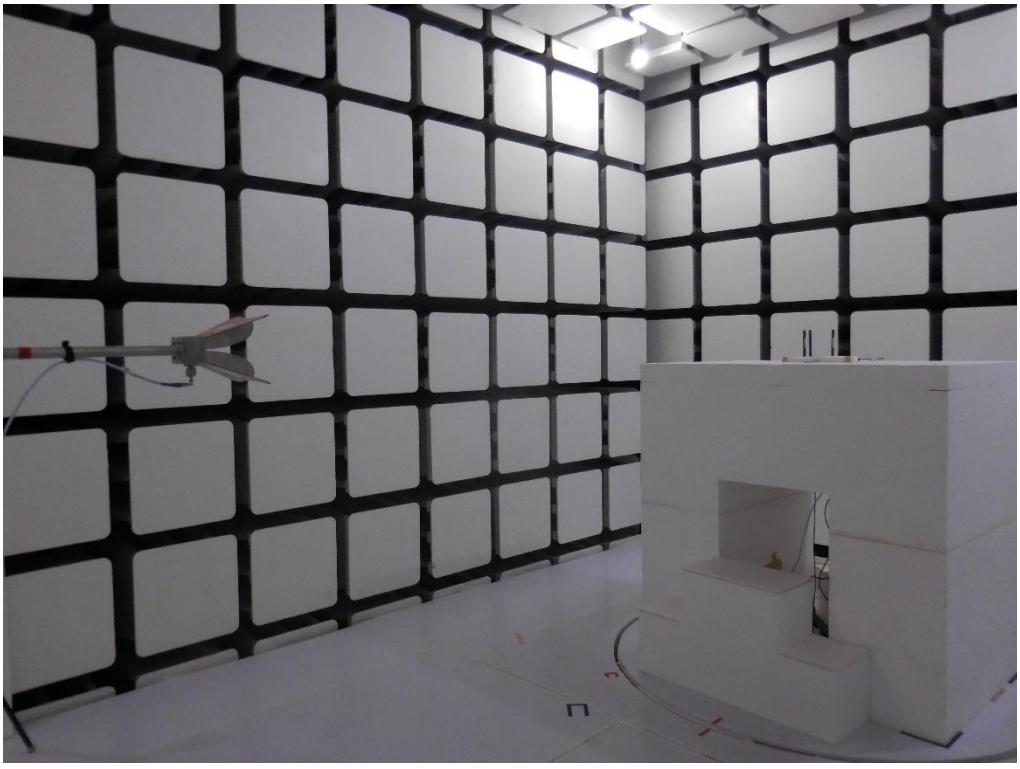
Rear view



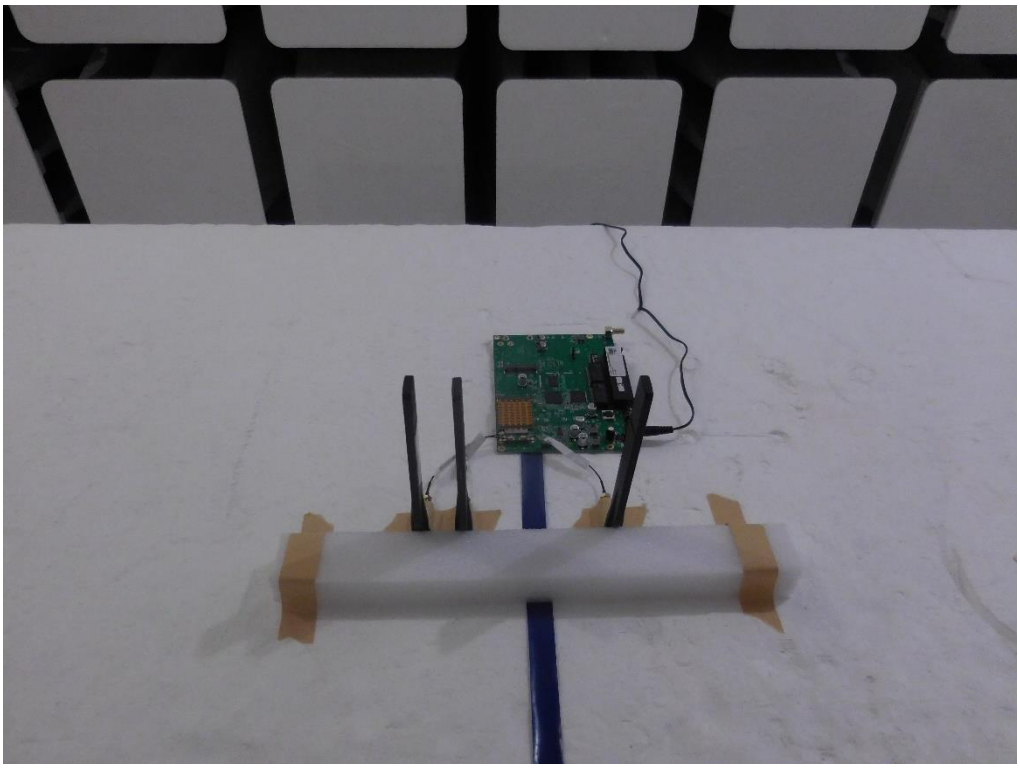
Bilog Antenna



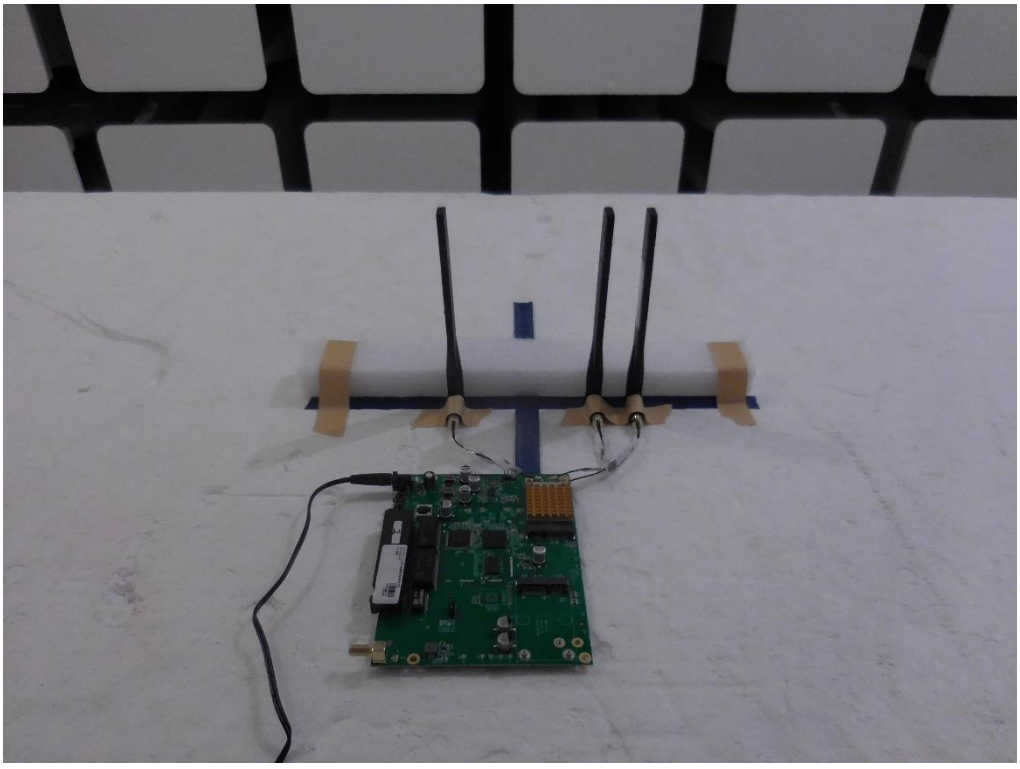
Horn Antenna



EUT take a close-up

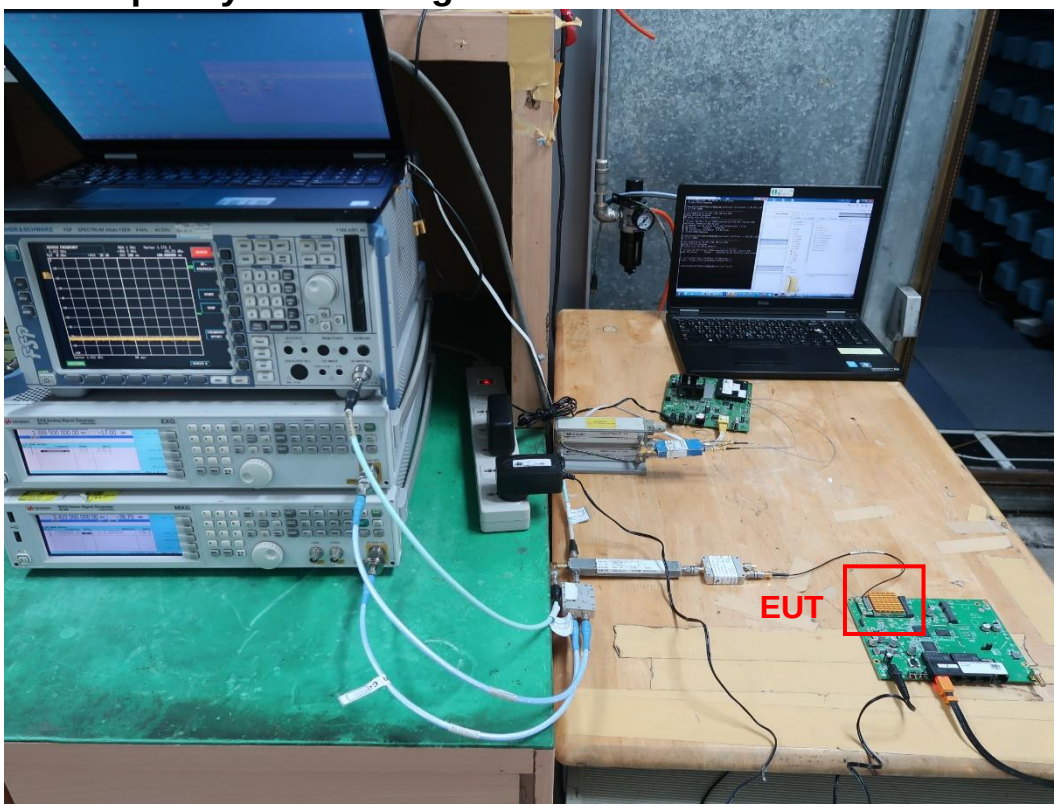


EUT take a close-up



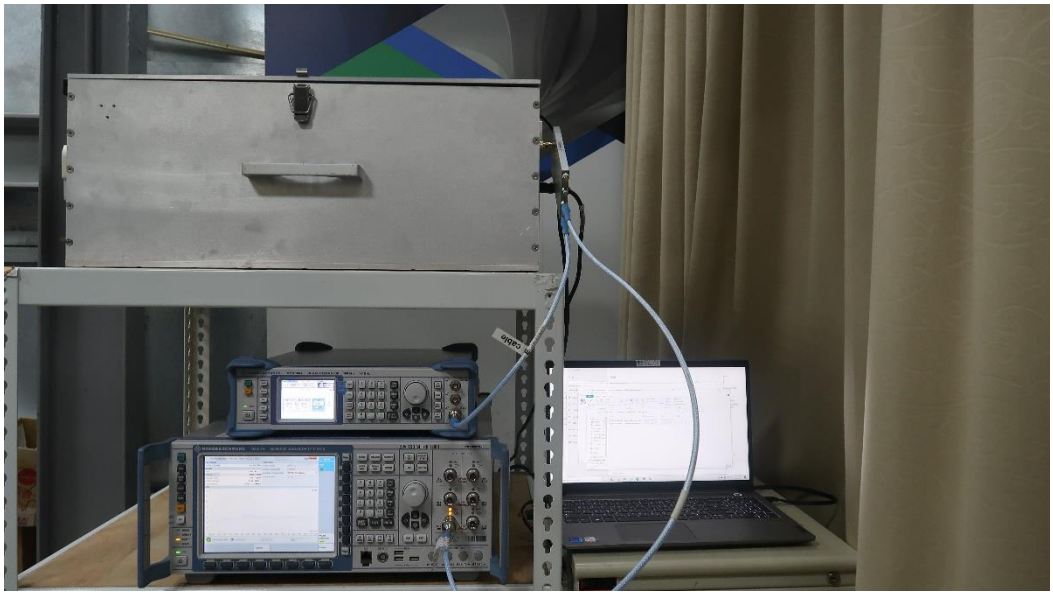
2. Photographs of Adaptivity Test Configuration

Front view

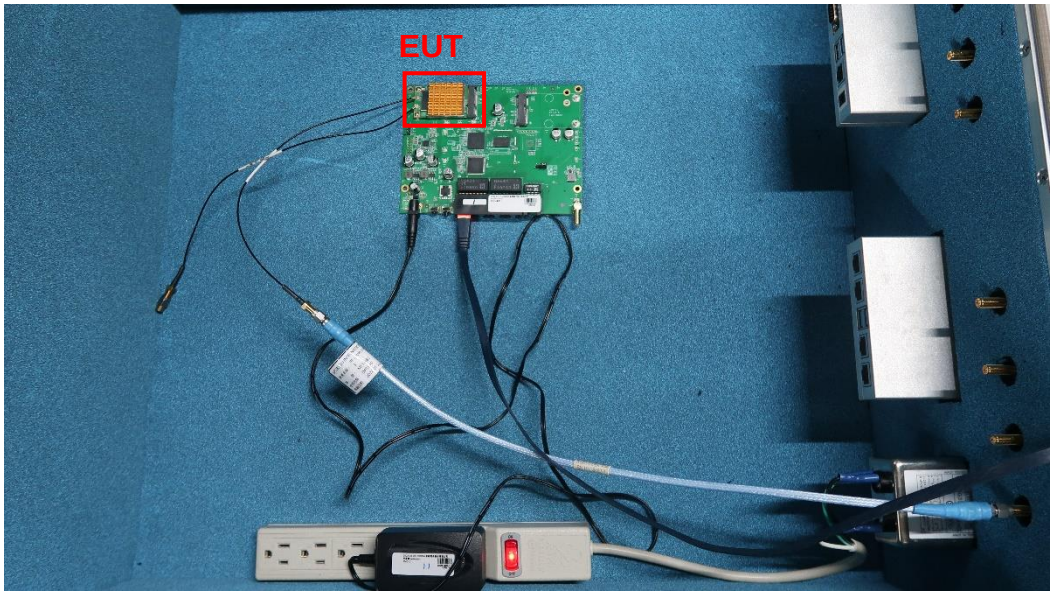


3. Photographs of Receiver Blocking Test Configuration

Front view



EUT take a close-up



THE END