



RADIO TEST REPORT

FCC ID : Z8H89FT0077
Equipment : XV2-22H Wallplate Wi-Fi 6 Access Point
Brand Name : Cambium Networks
Model Name : XV2-22H
Applicant : Cambium Networks Inc.
3800 Golf Road, Suite 360 Rolling Meadows, IL
60008, USA
Manufacturer : Cambium Networks, Ltd.
Ashburton, TQ13 7UP, UK
Standard : 47 CFR FCC Part 15.247

The product was received on Jul. 01, 2022, and testing was started from Jul. 07, 2022 and completed on Aug. 02, 2022. We, Sporton International Inc. Hsinchu Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in ANSI C63.10-2013 and shown compliance with the applicable technical standards.

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



Approved by: Sam Chen

Sporton International Inc. Hsinchu Laboratory

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History of this test report

TEL : 886-3-656-9065
FAX : 886-3-656-9085
Report Template No.: CB-A10_10 Ver1.3

Page Number : 3 of 31
Issued Date : Sep. 14, 2022
Report Version : 01



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
3.1	15.207	AC Power-line Conducted Emissions	PASS	-
3.2	15.247(a)	DTS Bandwidth	PASS	-
3.3	15.247(b)	Maximum Conducted Output Power	PASS	-
3.4	15.247(e)	Power Spectral Density	PASS	-
3.5	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.6	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

1. The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers. It's means measurement values may risk exceeding the limit of regulation standards, if measurement uncertainty is include in test results.
2. The measurement uncertainty please refer to report "Measurement Uncertainty".

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Sam Chen**Report Producer: Penny Kao**



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)	2412-2462	1-11 [11]
2400-2483.5	n (HT40), VHT40, ax (HEW40)	2422-2452	3-9 [7]

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	802.11n HT20	20	2TX
2.4-2.4835GHz	802.11n HT20-BF	20	2TX
2.4-2.4835GHz	VHT20	20	2TX
2.4-2.4835GHz	VHT20-BF	20	2TX
2.4-2.4835GHz	802.11ax HEW20	20	2TX
2.4-2.4835GHz	802.11ax HEW20-BF	20	2TX
2.4-2.4835GHz	802.11n HT40	40	2TX
2.4-2.4835GHz	802.11n HT40-BF	40	2TX
2.4-2.4835GHz	VHT40	40	2TX
2.4-2.4835GHz	VHT40-BF	40	2TX
2.4-2.4835GHz	802.11ax HEW40	40	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.	Port			Brand	Model Name	Antenna Type	Connector	Gain (dBi)
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee					
1	1	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	Note1
2	2	-	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
3	-	2	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
4	-	1	-	Gemtek	WRTQ-372AX	PIFA	I-Pex	
5	-	-	1	Gemtek	WRTQ-372AX	Dipole	I-Pex	

Note1: Antenna Gain information

Ant.	Port			Antenna Gain (dBi)			
	WLAN 2.4GHz	WLAN 5GHz	Bluetooth / Zigbee	WLAN 2.4GHz	WLAN 5GHz		Bluetooth / Zigbee
					UNII 1	UNII 3	
1	1	-	-	4.47	-	-	-
2	2	-	-	4.42	-	-	-
3	-	2	-	-	5.56	5.48	-
4	-	1	-	-	5.45	5.51	-
5	-	-	1	-	-	-	5.18

Note 2: Directional gain information

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

Ex.

Directional Gain (NSS1) formula :

$$DirectionalGain = 10 \cdot \log \left[\frac{\sum_{j=1}^{N_{SS}} \left\{ \sum_{k=1}^{N_{ANT}} g_{j,k} \right\}^2}{N_{ANT}} \right]$$

$$N_{SS1}(g_{1,1}) = 10^{G_1/20} ; N_{SS1}(g_{1,2}) = 10^{G_2/20} ;$$

$$g_{j,k} = (N_{SS1}(g_{1,1}) + N_{SS1}(g_{1,2}))^2$$

$$DG = 10 \log[(N_{SS1}(g_{1,1}) + N_{SS1}(g_{1,2}))^2 / N_{ANT}] \Rightarrow 10 \log[(10^{G_1/20} + 10^{G_2/20})^2 / N_{ANT}]$$

Where ;

$$G_1 = 10 ; G_2 = 10 ;$$

$$2.4G \ G_1 = 4.47 \text{ dBi} ; G_2 = 4.42 \text{ dBi} ; DG = 7.46 \text{ dBi}$$

$$5G \text{ Band1 } G_1 = 5.56 \text{ dBi} ; G_2 = 5.45 \text{ dBi} ; DG = 8.52 \text{ dBi}$$

$$5G \text{ Band4 } G_1 = 5.48 \text{ dBi} ; G_2 = 5.51 \text{ dBi} ; DG = 8.51 \text{ dBi}$$



Note 3: The above information was declared by manufacturer.

Note 4: The EUT has five antennas.

<WLAN 2.4GHz Function>**IEEE 802.11b/g/n/VHT/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<WLAN 5GHz Function>**IEEE 802.11a/n/ac/ax (2TX/2RX):**

Port 1 and Port 2 can be used as transmitting/receiving antenna.

Port 1 and Port 2 could transmit/receive simultaneously.

<Bluetooth/Zigbee function>**Bluetooth/Zigbee (1TX/1RX):**

Port 1 can be used as transmitting/receiving antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b	0.6	2.22	690u	3k
802.11g	0.947	0.24	1.978m	1k
802.11ax HEW20	0.906	0.43	5.52m	300
802.11ax HEW40	0.912	0.4	5.52m	300

Note:

- ♦ DC is Duty Cycle.
- ♦ DCF is Duty Cycle Factor.

1.1.4 EUT Operational Condition

EUT Power Type	From PoE			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 11n/VHT/ax in 2.4GHz and 11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	RF Conducted	QSPR Version 5.0-00199		
	Radiated	DOS [ver 6.1.7601]		

Note: The above information was declared by manufacturer.

1.1.5 Table for EUT supports functions

Function
AP
Bridge
Mesh

Note 1: After evaluating, AP Mode was selected to test and record in the report.

Note 2: The above information was declared by manufacturer.



1.1.6 Applicable Standards

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

- ♦ 47 CFR FCC Part 15.247
- ♦ ANSI C63.10-2013

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

- ♦ FCC KDB 558074 D01 v05r02
- ♦ FCC KDB 662911 D01 v02r01
- ♦ FCC KDB 414788 D01 v01r01

1.2 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Serway Lee	24.9-26.4 / 65-71	Jul. 13, 2022~ Jul. 22, 2022
Radiated below 1GHz	03CH05-CB	Simmon Cheng	23.8-24.9 / 55-58	Jul. 21, 2022~ Jul. 29, 2022
Radiated above 1GHz	03CH02-CB	Stim Sung	23.8-24.9 / 55-58	Jul. 07, 2022~ Jul. 15, 2022
	03CH03-CB		24.4-25.5 / 55-58	
AC Conduction	CO01-CB	Dean Chang	22-23 / 52-53	Jul. 26, 2022~ Aug. 02, 2022

1.3 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Conducted Emission (150kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (9kHz ~ 30MHz)	3.4 dB	Confidence levels of 95%
Radiated Emission (30MHz ~ 1,000MHz)	5.6 dB	Confidence levels of 95%
Radiated Emission (1GHz ~ 18GHz)	5.2 dB	Confidence levels of 95%
Radiated Emission (18GHz ~ 40GHz)	4.7 dB	Confidence levels of 95%
Conducted Emission	3.2 dB	Confidence levels of 95%
Output Power Measurement	0.8 dB	Confidence levels of 95%
Power Density Measurement	3.2 dB	Confidence levels of 95%
Bandwidth Measurement	2.0 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Non-beamforming mode

Mode	Power Setting
802.11b_Nss1,(1Mbps)_2TX	-
2412MHz	23.5
2437MHz	25
2462MHz	23.5
802.11g_Nss1,(6Mbps)_2TX	-
2412MHz	22
2437MHz	24
2462MHz	21.5
802.11ax HEW20_Nss1,(MCS0)_2TX	-
2412MHz	21.5
2437MHz	23.5
2462MHz	22
802.11ax HEW40_Nss1,(MCS0)_2TX	-
2422MHz	21
2437MHz	22.5
2452MHz	20.5

Beamforming mode

Mode	Power Setting
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-
2412MHz	21.5
2437MHz	23.5
2462MHz	22
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-
2422MHz	21
2437MHz	22.5
2452MHz	20.5

Note:

- ♦ Evaluated HEW20/HEW40 mode only due to the similar modulation. The power setting of HT20/HT40/VHT20/VHT40 mode are the same or lower than HEW20/HEW40.
- ♦ 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.

2.2 The Worst Case Measurement Configuration

The Worst Case Mode for Following Conformance Tests	
Tests Item	AC power-line conducted emissions
Condition	AC power-line conducted measurement for line and neutral Test Voltage: 120Vac / 60Hz
Operating Mode	Normal Link
1	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
2	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Pass Thru
3	EUT (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth2 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4 will follow this same test mode.	
4	EUT (2.4GHz +5GHz+ Bluetooth) + PoE: Power by Pass Thru
Mode 4 generated the worst test result, so it was recorded in this report.	

The Worst Case Mode for Following Conformance Tests	
Tests Item	DTS Bandwidth Maximum Conducted Output Power Power Spectral Density Emissions in Non-restricted Frequency Bands
Test Condition	Conducted measurement at transmit chains

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	Normal Link
1	EUT in Z axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
2	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
3	EUT in X axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth1 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~3, thus measurement for Mode 4~5 will follow this same test mode.	
4	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Pass Thru
5	EUT in Y axis (2.4GHz +5GHz+ Zigbee) + PoE: Power by Eth2 / PoE IN
Mode 2 has been evaluated to be the worst case among Mode 1~5, thus measurement for Mode 6 will follow this same test mode.	
6	EUT in Y axis (2.4GHz +5GHz+ Bluetooth) + PoE: Power by Eth1 / PoE IN



For operating mode 2 is the worst case and it was record in this test report.

Operating Mode > 1GHz	CTX
	The EUT was performed at X axis, Y axis and Z axis position, and the worst case as below:
1	EUT in X axis

The Worst Case Mode for Following Conformance Tests

Tests Item	Simultaneous Transmission Analysis - Co-location RF Exposure Evaluation
Operating Mode	
1	WLAN 2.4GHz + WLAN 5GHz + Bluetooth
2	WLAN 2.4GHz + WLAN 5GHz + Zigbee
Refer to Sporton Test Report No.: FA270109 for Co-location RF Exposure Evaluation.	

Note: The PoE is for measurement only, would not be marketed.

The PoE information as below:

Support Unit	Brand	Model Name
PoE	Cambium	NET-P30-56IN

2.3 EUT Operation during Test

For CTX Mode:

The EUT was programmed to be in continuously transmitting mode.

For Normal Link Mode:

During the test, the EUT operation to normal function.

2.4 Accessories

Others
RJ-45 cable*1: Non-shielded, 0.1m
Wall-mounted rack*1



2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	LAN EUT Eth1 NB	DELL	E6430	N/A
B	LAN EUT Eth2 NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	PD Load	Cambium Networks	WRTQ 372AX	N/A
F	LAN Eth2 NB	DELL	E6430	N/A
G	Smart phone	Samusung	J2	N/A
H	PoE	Cambium	NET-P30-56IN	N/A

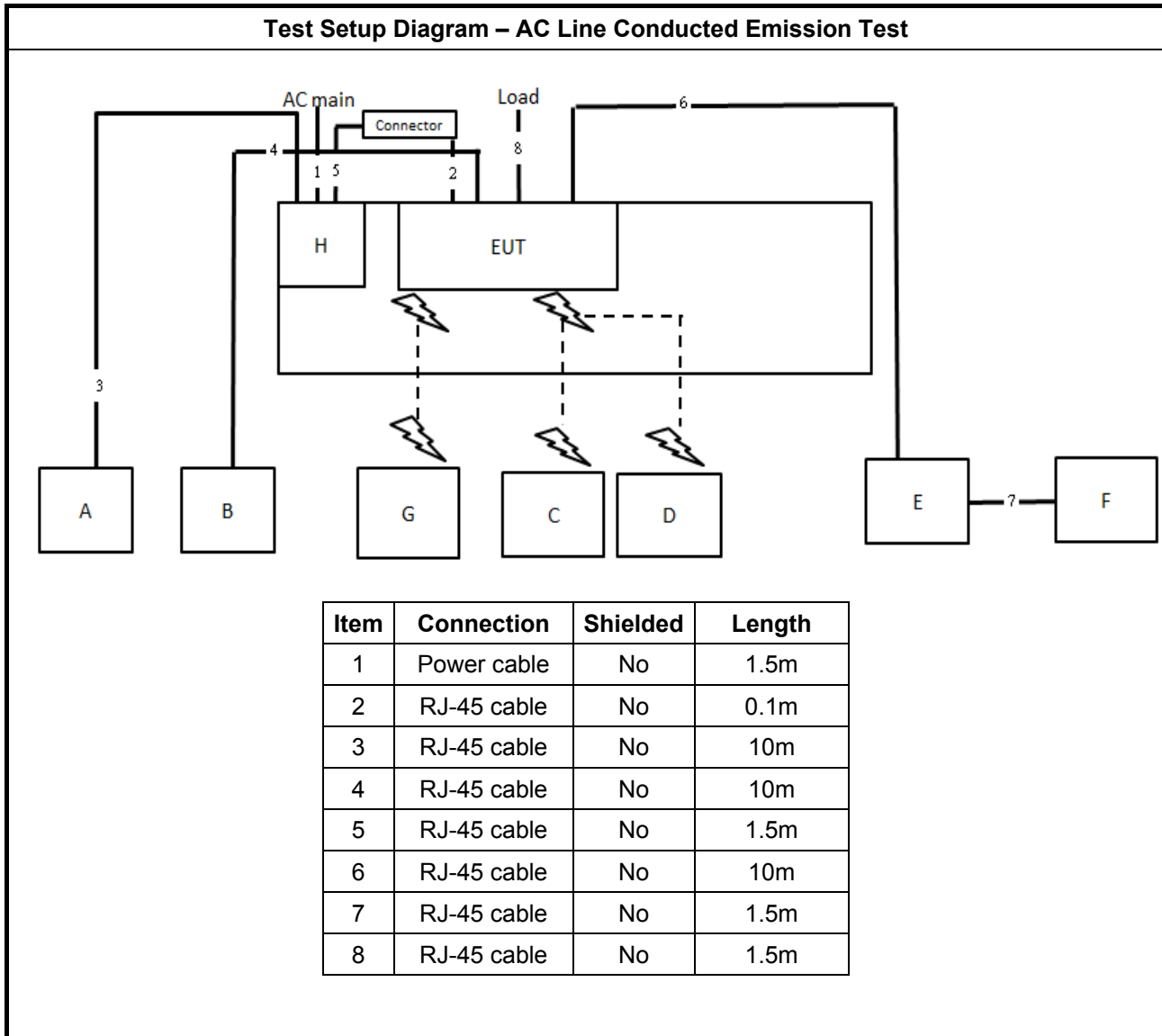
For Radiated (below 1GHz):

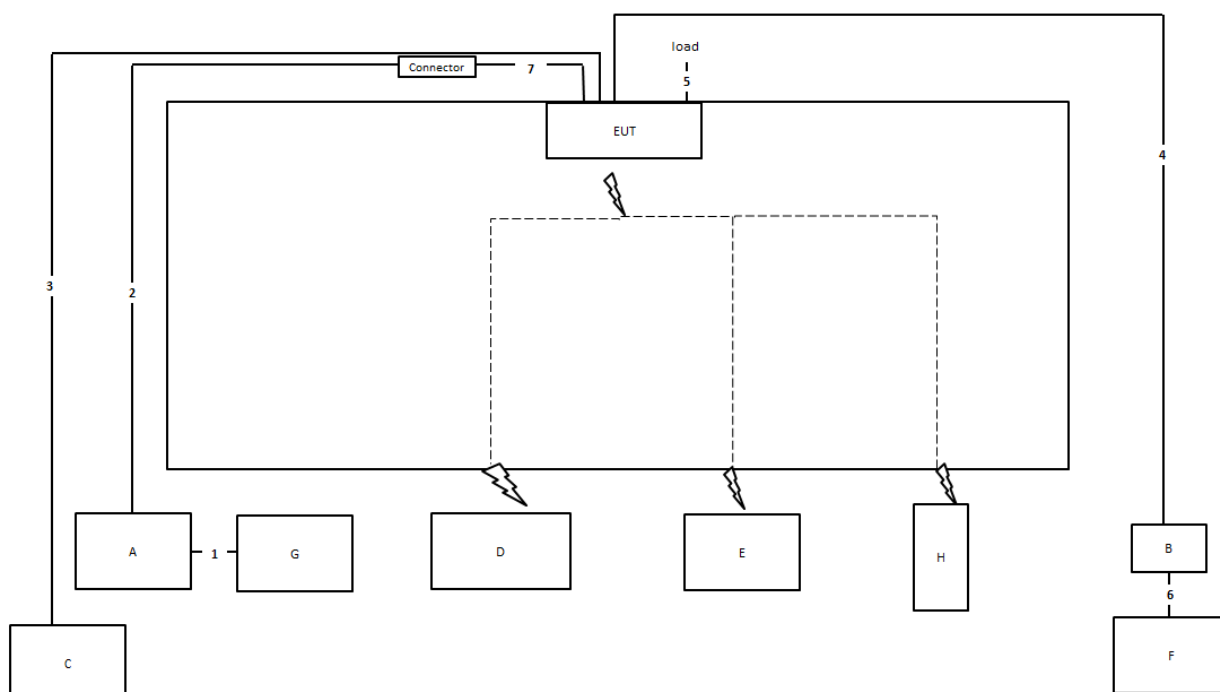
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NET-P30-56IN	N/A
B	PD Load	Cambium Networks	WRTQ_372AX	N/A
C	NB (LAN)	DELL	E4300	N/A
D	NB (WIFI 2.4G)	DELL	E4300	N/A
E	NB (WIFI 5G)	DELL	E4300	N/A
F	NB (PD LAN)	DELL	E4300	N/A
G	NB (PoE)	DELL	E4300	N/A
H	Bulb	Bitc	TWM6027P25-NWW1008H	N/A

For Radiated (above 1GHz) and RF Conducted:

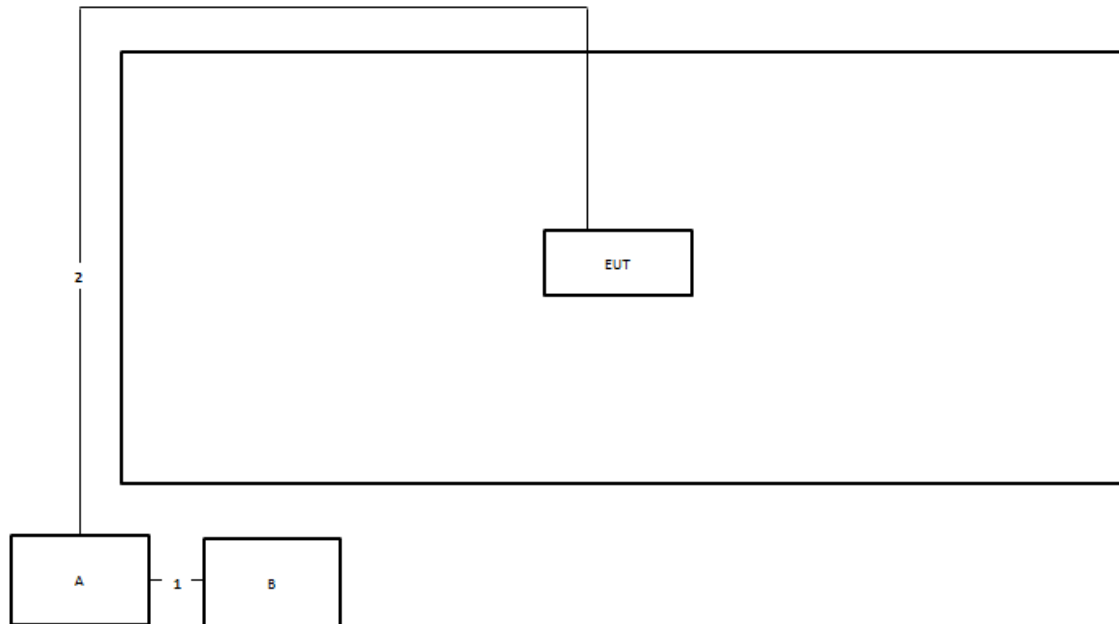
Support Equipment				
No.	Equipment	Brand Name	Model Name	FCC ID
A	PoE	Cambium Networks	NET-P30-56IN	N/A
B	Notebook	DELL	E4300	N/A

2.6 Test Setup Diagram



Test Setup Diagram - Radiated Test < 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	1.0m
5	RJ-45 cable	No	1.5m
6	RJ-45 cable	No	1.5m
7	RJ-45 cable	No	0.1m

Test Setup Diagram - Radiated Test > 1GHz


Item	Connection	Shielded	Length
1	RJ-45 cable	No	1.5m
2	RJ-45 cable	No	10m



3 Transmitter Test Result

3.1 AC Power-line Conducted Emissions

3.1.1 AC Power-line Conducted Emissions Limit

AC Power-line Conducted Emissions Limit		
Frequency Emission (MHz)	Quasi-Peak	Average
0.15-0.5	66 - 56 *	56 - 46 *
0.5-5	56	46
5-30	60	50

Note 1: * Decreases with the logarithm of the frequency.

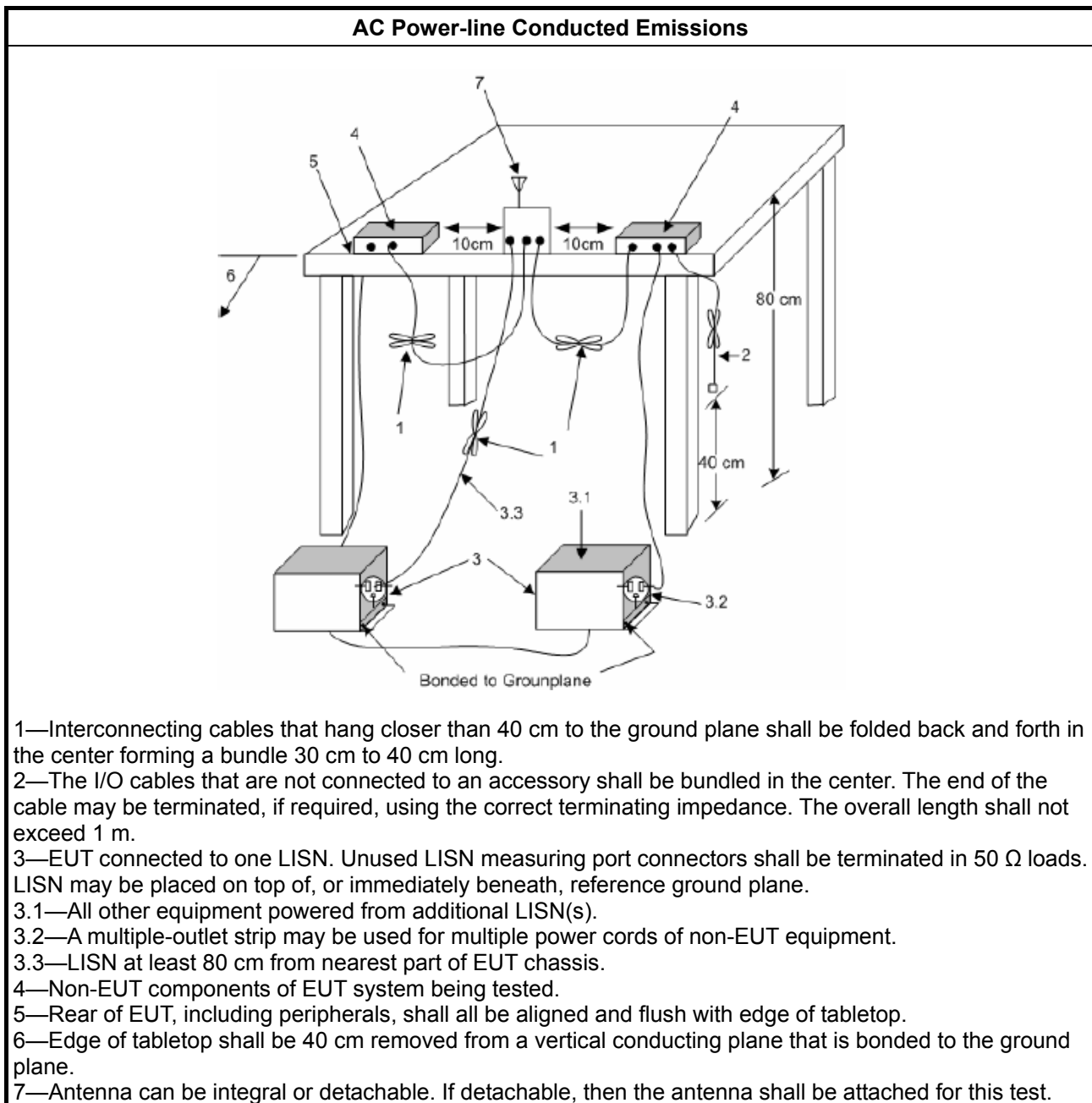
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method
☒ Refer as ANSI C63.10-2013, clause 6.2 for AC power-line conducted emissions.

3.1.4 Test Setup



3.1.5 Measurement Results Calculation

The measured Level is calculated using:

- a. Corrected Reading: LISN Factor (LISN) + Attenuator (AT/AUX) + Cable Loss (CL) + Read Level (Raw) = Level
- b. Margin = -Limit + Level

3.1.6 Test Result of AC Power-line Conducted Emissions

Refer as Appendix A

3.2 DTS Bandwidth

3.2.1 6dB Bandwidth Limit

6dB Bandwidth Limit
Systems using digital modulation techniques:
6 dB bandwidth $\geq$ 500 kHz.

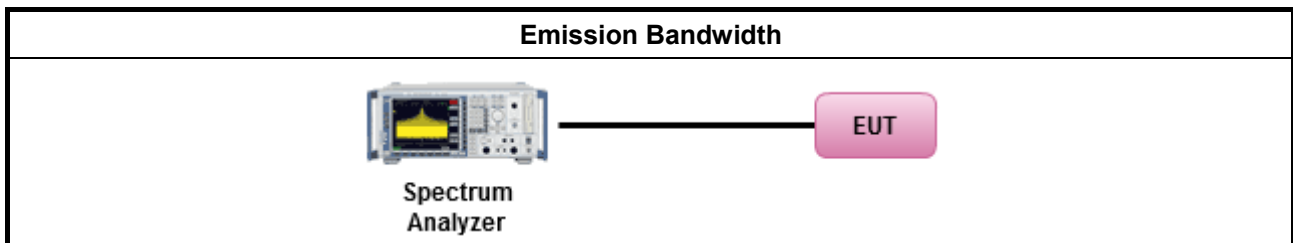
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

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

3.2.4 Test Setup



3.2.5 Test Result of Emission Bandwidth

Refer as Appendix B

3.3 Maximum Conducted Output Power

3.3.1 Maximum Conducted Output Power Limit

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

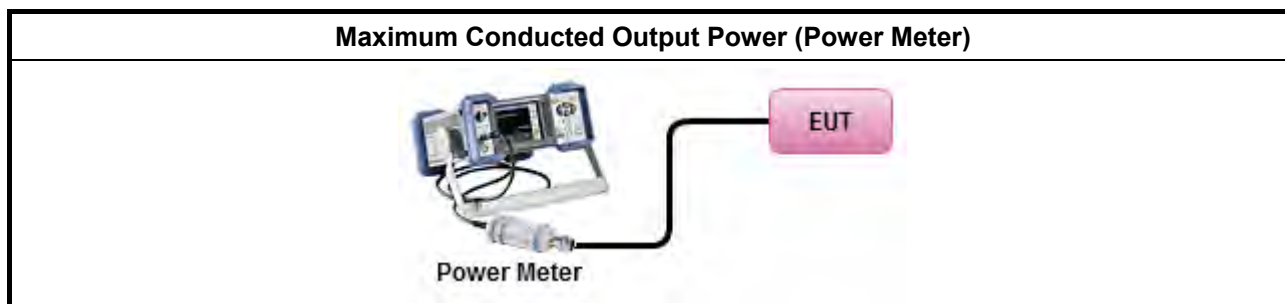
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as FCC KDB 558074, clause 8.3.1.1 & C63.10 clause 11.9.1.1 (RBW ≥ EBW method).
☐	Refer as FCC KDB 558074, clause 8.3.1.3 & C63.10 clause 11.9.1.3 (peak power meter).
Maximum Conducted Output Power	
	[duty cycle ≥ 98% or external video / power trigger]
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.2 Method AVGSA-1.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.3 Method AVGSA-1A. (alternative)
	duty cycle < 98% and average over on/off periods with duty factor
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.4 Method AVGSA-2.
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.5 Method AVGSA-2A (alternative)
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.6 Method AVGSA-3
☐	Refer as FCC KDB 558074, clause 8.3.2.2 & C63.10 clause 11.9.2.2.7 Method AVGSA-3A (alternative)
	Measurement using a power meter (PM)
☐	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.1 Method AVGPM (using an RF average power meter).
☒	Refer as FCC KDB 558074, clause 8.3.2.3 & C63.10 clause 11.9.2.3.2 Method AVGPM-G (using an gate RF average power meter).
For conducted measurement.	
	If the EUT supports multiple transmit chains using options given below: Refer as FCC KDB 662911, In-band power measurements. Using the measure-and-sum approach, measured all transmit ports individually. Sum the power (in linear power units e.g., mW) of all ports for each individual sample and save them.
	If multiple transmit chains, EIRP calculation could be following as methods: $P_{total} = P_1 + P_2 + \dots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup



3.3.5 Test Result of Maximum Conducted Output Power

Refer as Appendix C

3.4 Power Spectral Density

3.4.1 Power Spectral Density Limit

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

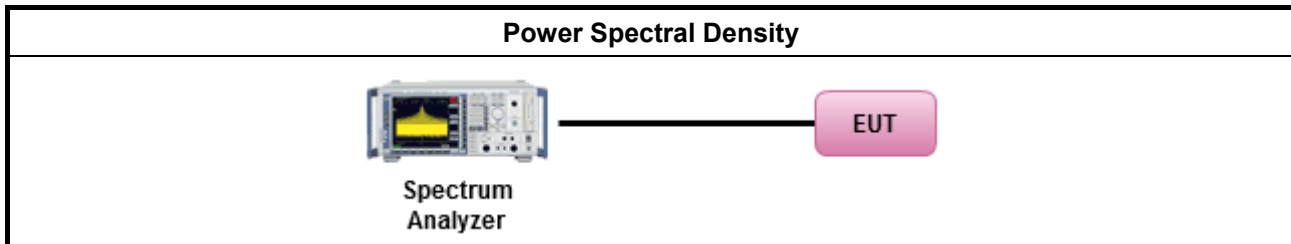
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

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

3.4.4 Test Setup



3.4.5 Test Result of Power Spectral Density

Refer as Appendix D

3.5 Emissions in Non-restricted Frequency Bands

3.5.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dBc)
Peak output power procedure	20
Average output power procedure	30
Note 1: If the peak output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum measured in-band peak PSD level. Note 2: If the average output power procedure is used to measure the fundamental emission power to demonstrate compliance to requirements, then the power in any 100 kHz outside of the authorized frequency band shall be attenuated by at least 30 dB relative to the maximum measured in-band average PSD level.	

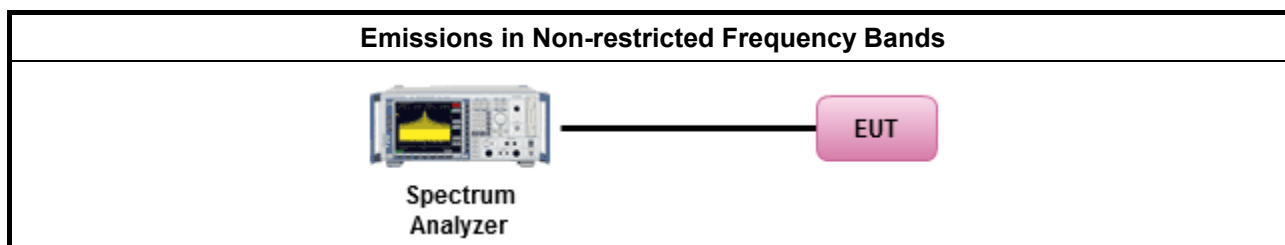
3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

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

3.5.4 Test Setup



3.5.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix E

3.6 Emissions in Restricted Frequency Bands

3.6.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.6.2 Measuring Instruments

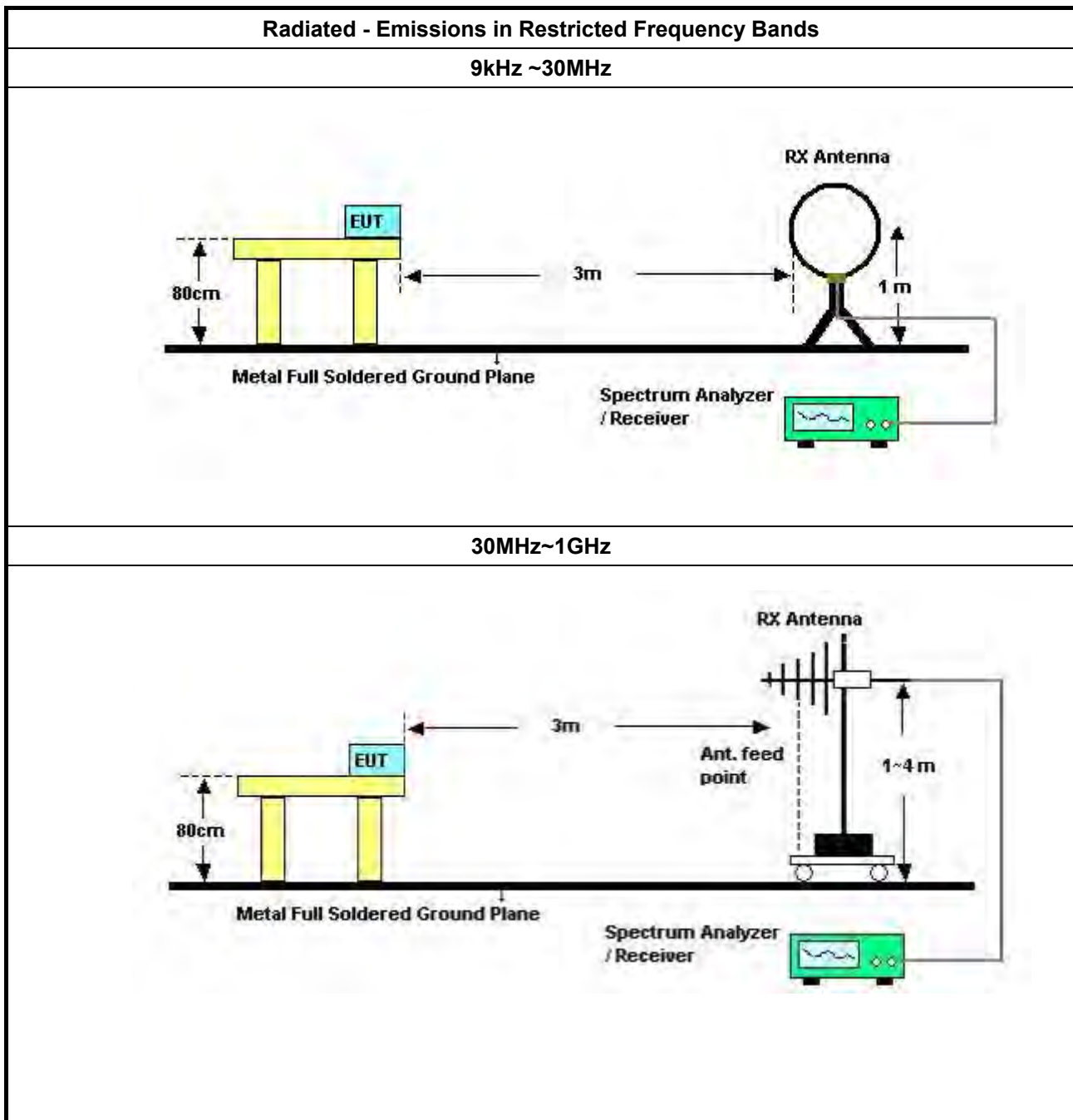
Refer a test equipment and calibration data table in this test report.

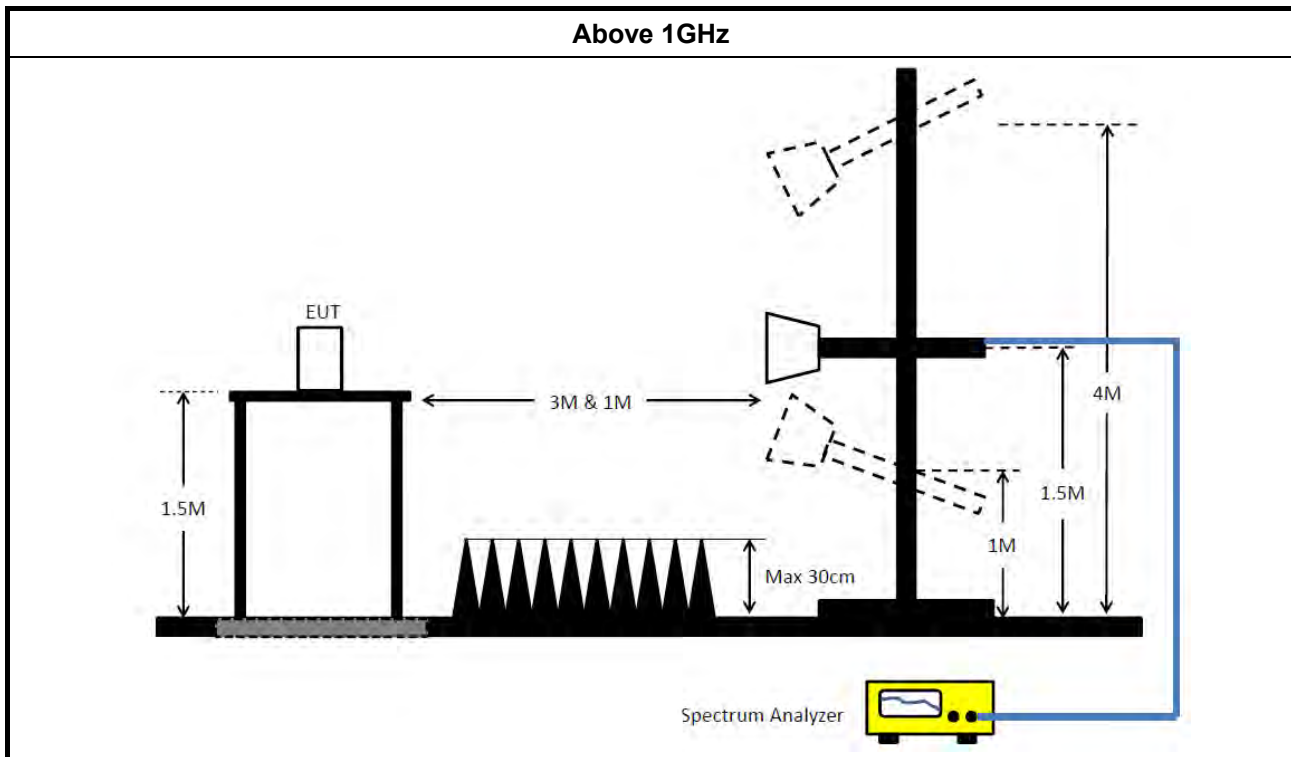


3.6.3 Test Procedures

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

3.6.4 Test Setup





3.6.5 Measurement Results Calculation

The measured Level is calculated using:

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

3.6.6 Emissions in Restricted Frequency Bands (Below 30MHz)

There is a comparison data of both open-field test site and alternative test site - semi-Anechoic chamber according to KDB414788 Radiated Test Site, and the result came out very similar.

All amplitude of spurious emissions that are attenuated by more than 20 dB below the permissible value has no need to be reported.

The radiated emissions were investigated from 9 kHz or the lowest frequency generated within the device, up to the 10th harmonic or 40 GHz, whichever is appropriate.

3.6.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix F



4 Test Equipment and Calibration Data

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
EMI Receiver	Agilent	N9038A	My52260123	9kHz ~ 8.4GHz	Feb. 22, 2022	Feb. 21, 2023	Conduction (CO01-CB)
LISN	F.C.C.	FCC-LISN-50-16-2	04083	150kHz ~ 100MHz	Feb. 09, 2022	Feb. 08, 2023	Conduction (CO01-CB)
LISN	Schwarzbeck	NSLK 8127	8127647	9kHz ~ 30MHz	Apr. 12, 2022	Apr. 11, 2023	Conduction (CO01-CB)
Pulse Limiter	Rohde&Schwarz	ESH3-Z2	100430	9kHz ~ 30MHz	Feb. 10, 2022	Feb. 09, 2023	Conduction (CO01-CB)
COND Cable	Woken	Cable	Low cable-CO01	9kHz ~ 30MHz	May 18, 2022	May 17, 2023	Conduction (CO01-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO01-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 09, 2021	Aug. 08, 2022	Radiation (03CH05-CB)
Bilog Antenna with 6dB Attenuator	TESEQ & EMCI	CBL 6112D & N-6-06	35236 & AT-N0610	30MHz ~ 2GHz	Mar. 25, 2022	Mar. 24, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Spectrum Analyzer	R&S	FSP40	100304	9kHz ~ 40GHz	Mar. 14, 2022	Mar. 13, 2023	Radiation (03CH05-CB)
EMI Test Receiver	R&S	ESCS	826547/017	9kHz ~ 2.75GHz	Jun. 17, 2022	Jun. 16, 2023	Radiation (03CH05-CB)
RF Cable-low	Woken	RG402	Low Cable-04+23	30MHz~1GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	RIKEN	SAC-3M	03CH02-CB	1GHz ~18GHz	Mar. 26, 2022	Mar. 25, 2023	Radiation (03CH02-CB)
Horn Antenna	EMCO	3115	9610-4976	1GHz ~ 18GHz	Apr. 19, 2022	Apr. 18, 2023	Radiation (03CH02-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH02-CB)
Pre-Amplifier	Agilent	83017A	MY39501305	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH02-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH02-CB)
Spectrum analyzer	R&S	FSU	100015	9kHz~26GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH02-CB)
RF Cable-high	Woken	RG402	High Cable-18	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
RF Cable-high	Woken	RG402	High Cable-18+19	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH02-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH02-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH02-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH03-CB	1GHz ~18GHz 3m	May 05, 2022	May 04, 2023	Radiation (03CH03-CB)
Horn Antenna	ETS • Lindgren	3115	6821	750MHz~18GHz	Jan. 21, 2022	Jan. 20, 2023	Radiation (03CH03-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH03-CB)
Pre-Amplifier	Agilent	8449B	3008A02097	1GHz ~ 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH03-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 2023	Radiation (03CH03-CB)
Spectrum Analyzer	R&S	FSP40	100019	9kHz ~ 40GHz	Jun. 10, 2022	Jun. 09, 2023	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-20+29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
RF Cable-high	Woken	RG402	High Cable-29	1GHz ~ 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH03-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH03-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH03-CB)
Spectrum analyzer	R&S	FSV40	100979	9kHz~40GHz	May 27, 2022	May 26, 2023	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-06	1 GHz – 26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-07	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-08	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-09	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-10	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	High Cable-30	1 GHz –26.5 GHz	Oct. 04, 2021	Oct. 03, 2022	Conducted (TH01-CB)



Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
Switch	SPTCB	SP-SWI	SWI-01	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P1	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P2	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P3	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P4	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
RF Cable-high	Woken	RG402	SWI-01-P5	1 GHz –26.5 GHz	Dec. 13, 2021	Dec. 12, 2022	Conducted (TH01-CB)
Power Sensor	Agilent	E9327A	US40442088	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Power Meter	Agilent	E4416A	GB41291199	50MHz~18GHz	Feb. 21, 2022	Feb. 20, 2023	Conducted (TH01-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conducted (TH01-CB)

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

NCR means Non-Calibration required.



Conducted Emissions at Powerline

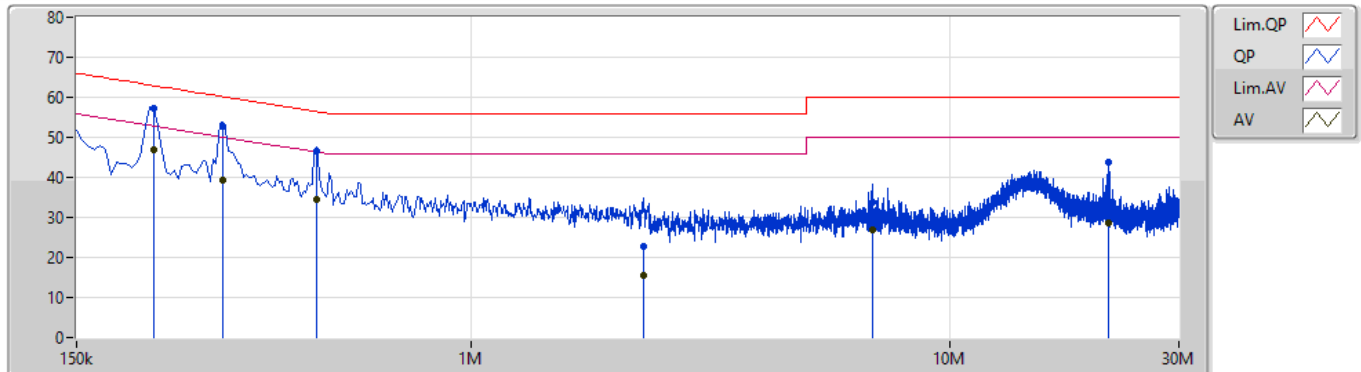
Appendix A

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 4	Pass	QP	217.5k	57.87	62.92	-5.05	Neutral

Mode 4

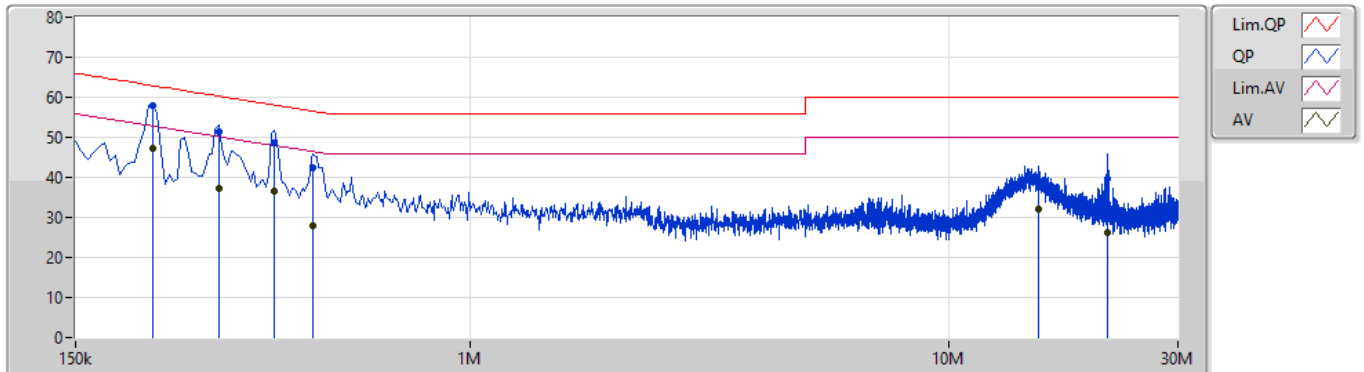
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Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	57.34	62.92	-5.58	9.99	Line	"Worst"	47.35	0.06	0.04	9.89			
AV	217.5k	46.81	52.92	-6.11	9.99	Line	-	36.82	0.06	0.04	9.89			
QP	303k	52.82	60.17	-7.35	10.00	Line	-	42.82	0.06	0.05	9.89			
AV	303k	39.25	50.17	-10.92	10.00	Line	-	29.25	0.06	0.05	9.89			
QP	474k	46.40	56.44	-10.04	10.01	Line	-	36.39	0.06	0.06	9.89			
AV	474k	34.56	46.44	-11.88	10.01	Line	-	24.55	0.06	0.06	9.89			
QP	2.297M	22.72	56.00	-33.28	10.08	Line	-	12.64	0.10	0.09	9.89			
AV	2.297M	15.47	46.00	-30.53	10.08	Line	-	5.39	0.10	0.09	9.89			
QP	6.878M	33.69	60.00	-26.31	10.22	Line	-	23.47	0.18	0.14	9.90			
AV	6.878M	26.95	50.00	-23.05	10.22	Line	-	16.73	0.18	0.14	9.90			
QP	21.35M	43.81	60.00	-16.19	10.52	Line	-	33.29	0.32	0.24	9.96			
AV	21.35M	28.78	50.00	-21.22	10.52	Line	-	18.26	0.32	0.24	9.96			

Mode 4

02/08/2022



Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Factor (dB)	Condition	Comment	Raw (dBuV)	LISN (dB)	CL (dB)	AT (dB)			
QP	217.5k	57.87	62.92	-5.05	10.00	Neutral	"Worst"	47.87	0.07	0.04	9.89			
AV	217.5k	47.34	52.92	-5.58	10.00	Neutral	-	37.34	0.07	0.04	9.89			
QP	298.5k	51.22	60.28	-9.06	10.01	Neutral	-	41.21	0.07	0.05	9.89			
AV	298.5k	37.18	50.28	-13.10	10.01	Neutral	-	27.17	0.07	0.05	9.89			
QP	388.5k	48.50	58.10	-9.60	10.02	Neutral	-	38.48	0.07	0.06	9.89			
AV	388.5k	36.57	48.10	-11.53	10.02	Neutral	-	26.55	0.07	0.06	9.89			
QP	469.5k	42.56	56.52	-13.96	10.02	Neutral	-	32.54	0.07	0.06	9.89			
AV	469.5k	27.88	46.52	-18.64	10.02	Neutral	-	17.86	0.07	0.06	9.89			
QP	15.342M	37.99	60.00	-22.01	10.39	Neutral	-	27.60	0.28	0.17	9.94			
AV	15.342M	32.17	50.00	-17.83	10.39	Neutral	-	21.78	0.28	0.17	9.94			
QP	21.404M	39.61	60.00	-20.39	10.50	Neutral	-	29.11	0.30	0.24	9.96			
AV	21.404M	26.31	50.00	-23.69	10.50	Neutral	-	15.81	0.30	0.24	9.96			

Summary

Mode	Max-N dB (Hz)	Max-OBW (Hz)	ITU-Code	Min-N dB (Hz)	Min-OBW (Hz)
2.4-2.4835GHz	-	-	-	-	-
802.11b_Nss1,(1Mbps)_2TX	8.525M	13.243M	13M2G1D	5.525M	12.819M
802.11g_Nss1,(6Mbps)_2TX	15.05M	16.317M	16M3D1D	13.725M	16.242M
802.11ax HEW20_Nss1,(MCS0)_2TX	16.2M	18.866M	18M9D1D	12.525M	18.741M
802.11ax HEW40_Nss1,(MCS0)_2TX	36.05M	37.731M	37M7D1D	30.45M	37.481M

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

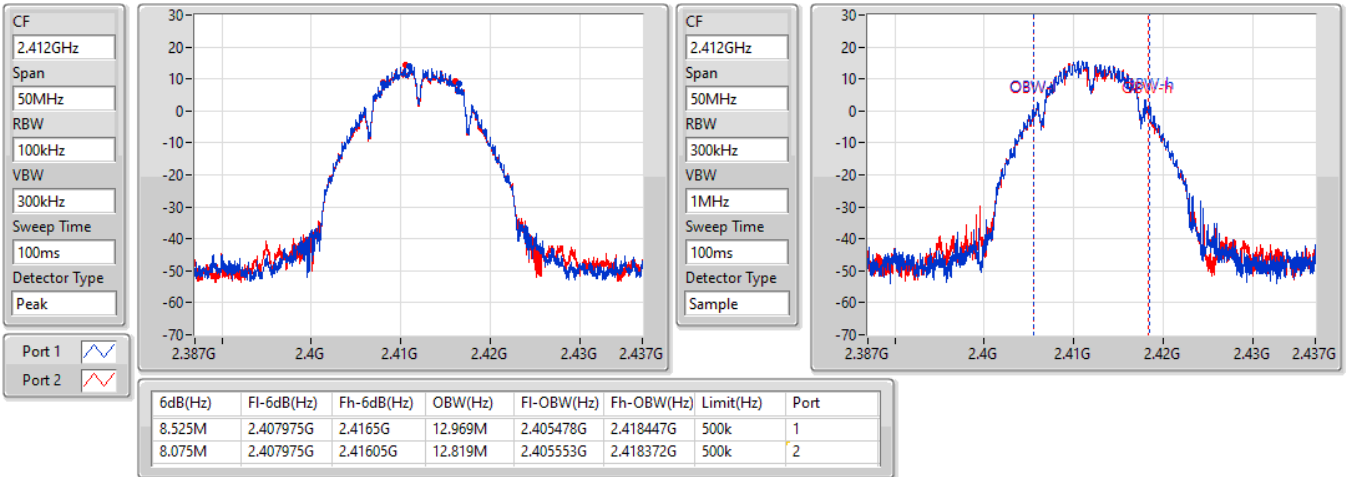
Result

Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	8.525M	12.969M	8.075M	12.819M
2437MHz	Pass	500k	7.05M	13.118M	5.525M	13.243M
2462MHz	Pass	500k	7.55M	13.193M	7.55M	13.218M
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	13.75M	16.267M	13.75M	16.242M
2437MHz	Pass	500k	15.05M	16.317M	15.025M	16.317M
2462MHz	Pass	500k	13.725M	16.242M	13.775M	16.267M
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	500k	16.2M	18.841M	15.9M	18.866M
2437MHz	Pass	500k	14.05M	18.816M	15.05M	18.766M
2462MHz	Pass	500k	14.125M	18.791M	12.525M	18.741M
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	500k	33.9M	37.681M	31.3M	37.531M
2437MHz	Pass	500k	33.75M	37.731M	36.05M	37.731M
2452MHz	Pass	500k	30.45M	37.481M	32.5M	37.531M

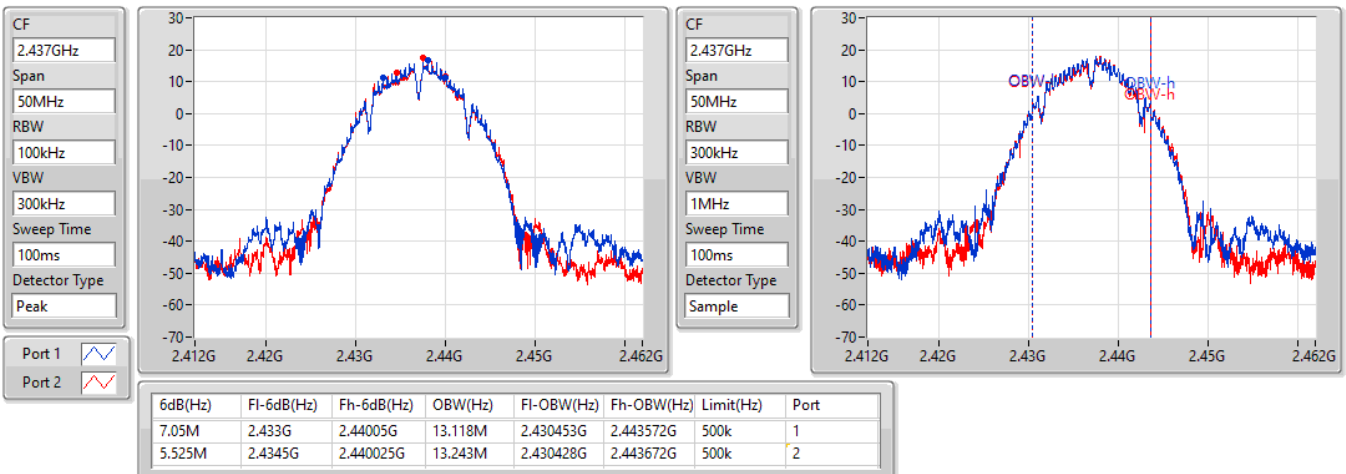
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

802.11b_Nss1,(1Mbps)_2TX
EBW
2412MHz

13/07/2022

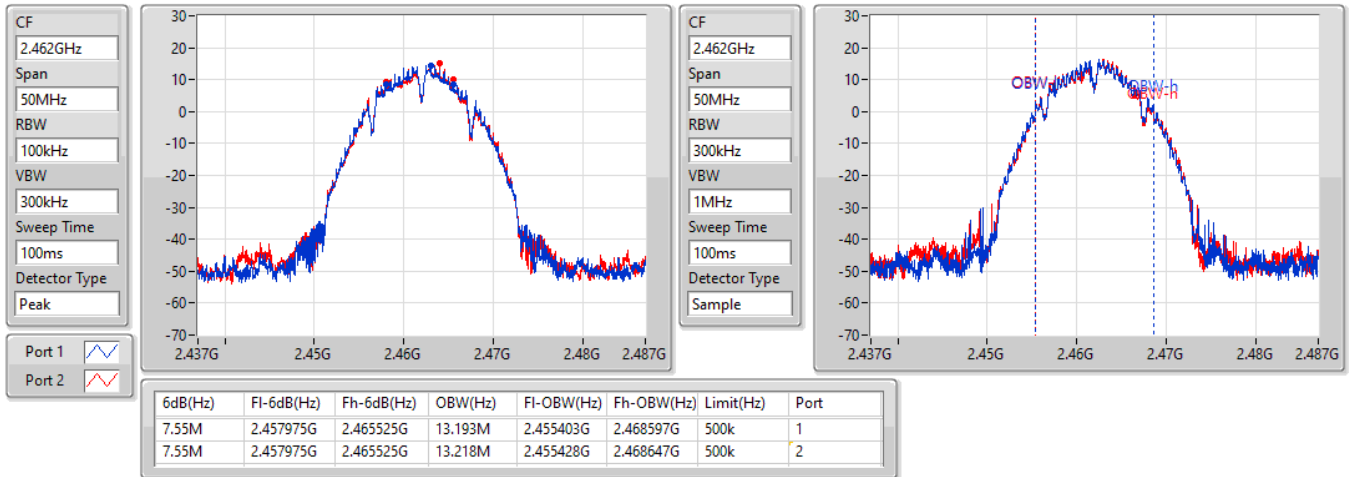

802.11b_Nss1,(1Mbps)_2TX
EBW
2437MHz

13/07/2022

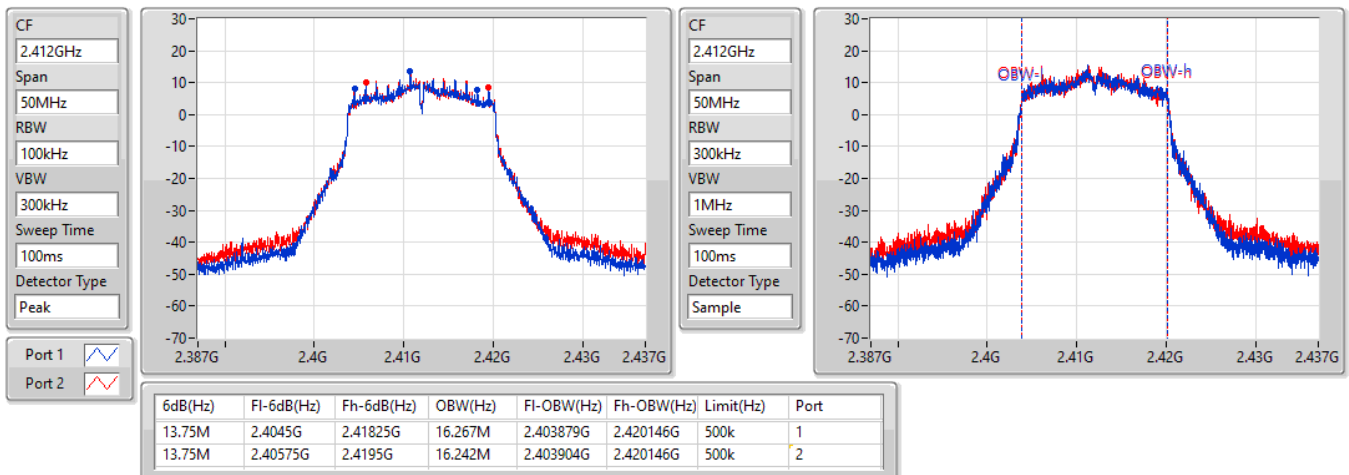


802.11b_Nss1,(1Mbps)_2TX
EBW
2462MHz

13/07/2022

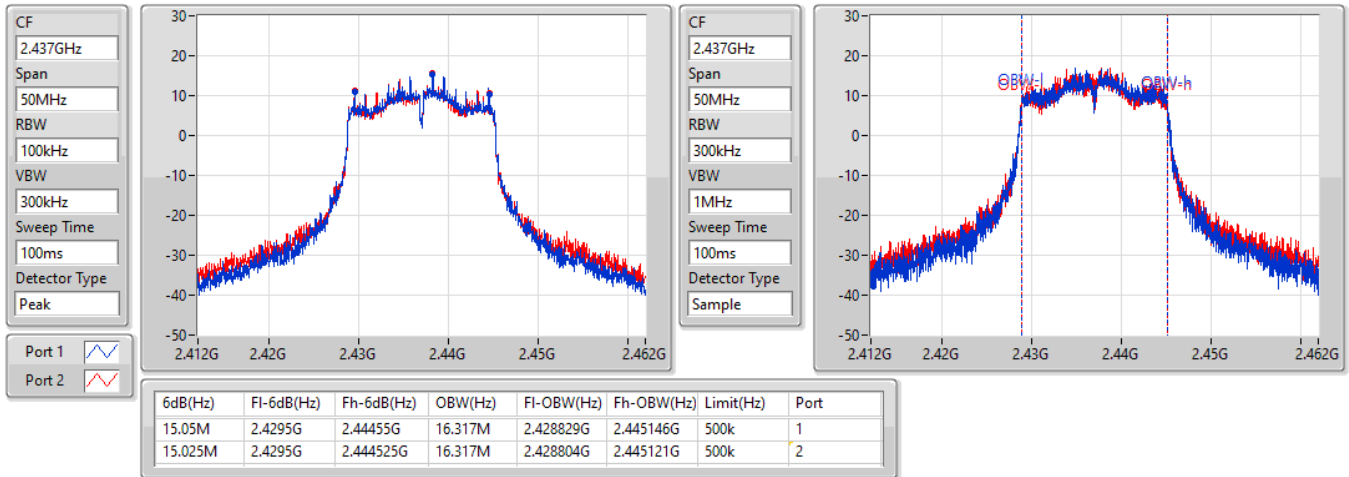

802.11g_Nss1,(6Mbps)_2TX
EBW
2412MHz

13/07/2022

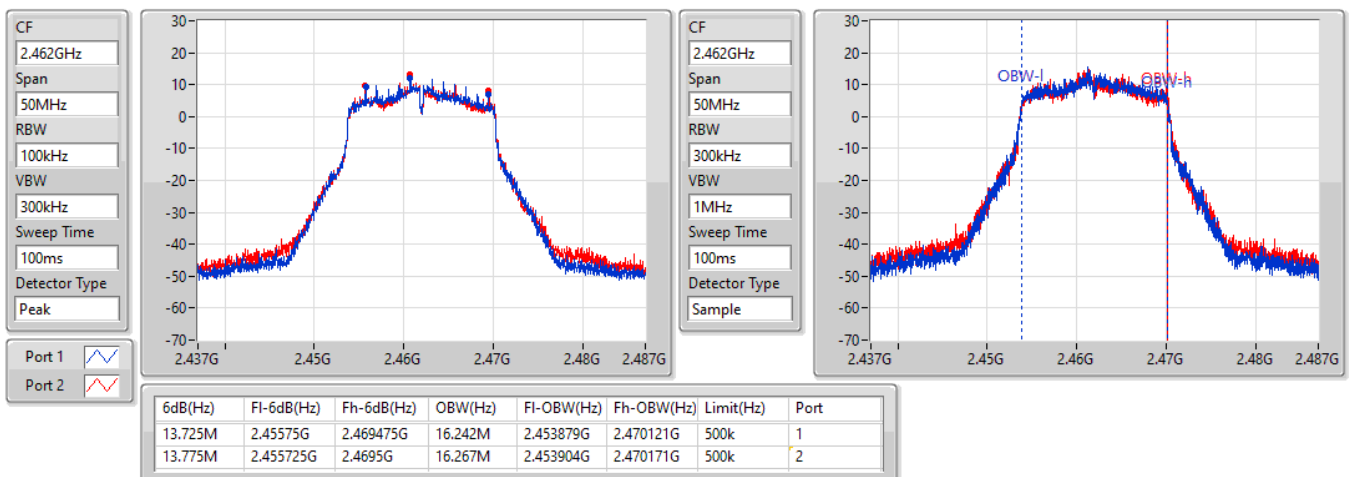


802.11g_Nss1,(6Mbps)_2TX
EBW
2437MHz

13/07/2022

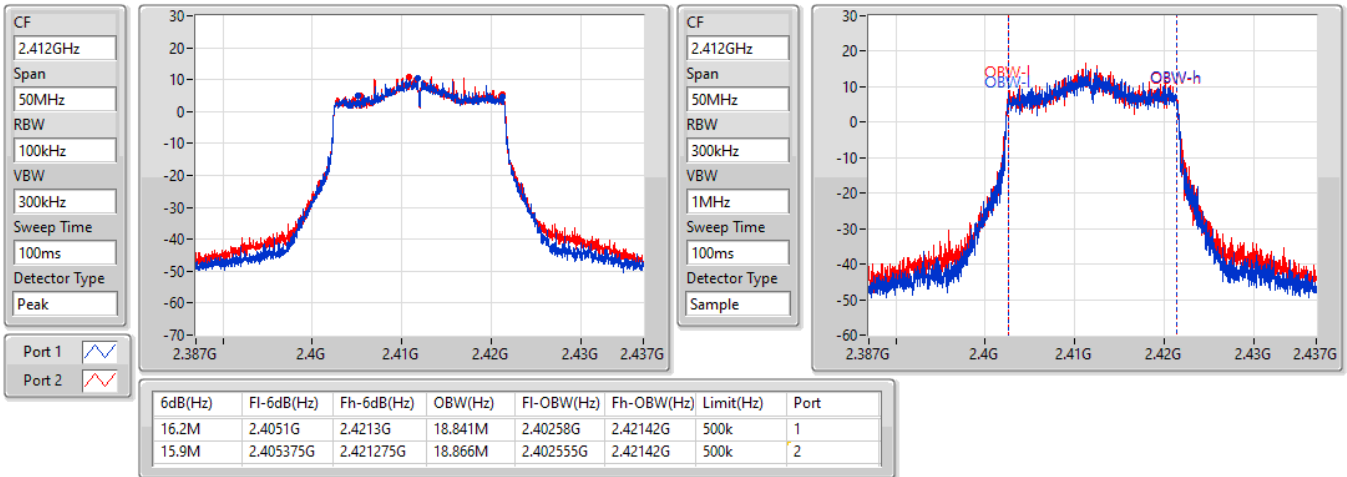

802.11g_Nss1,(6Mbps)_2TX
EBW
2462MHz

13/07/2022

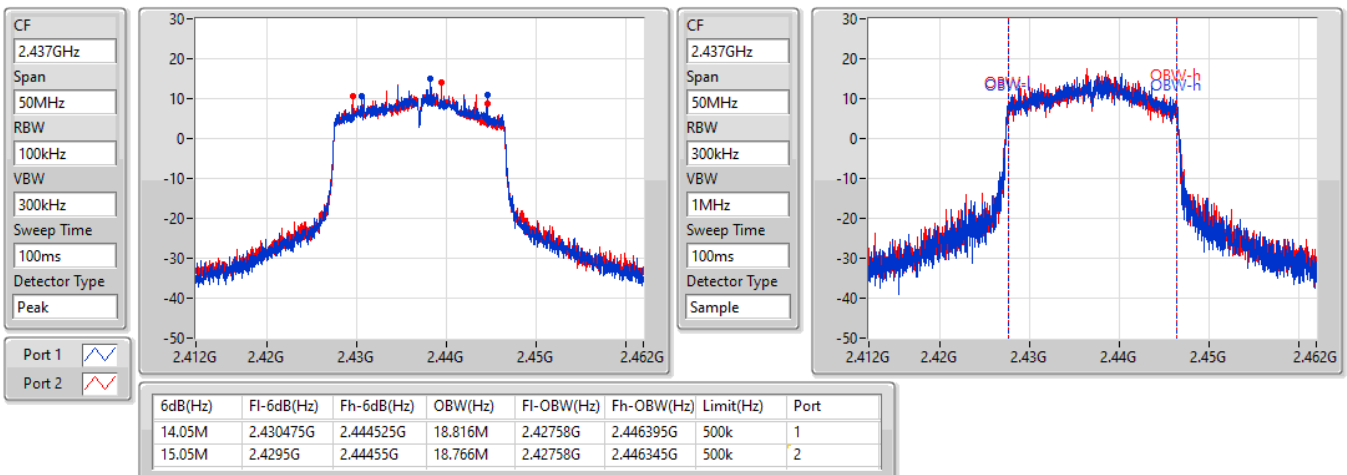


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2412MHz

13/07/2022

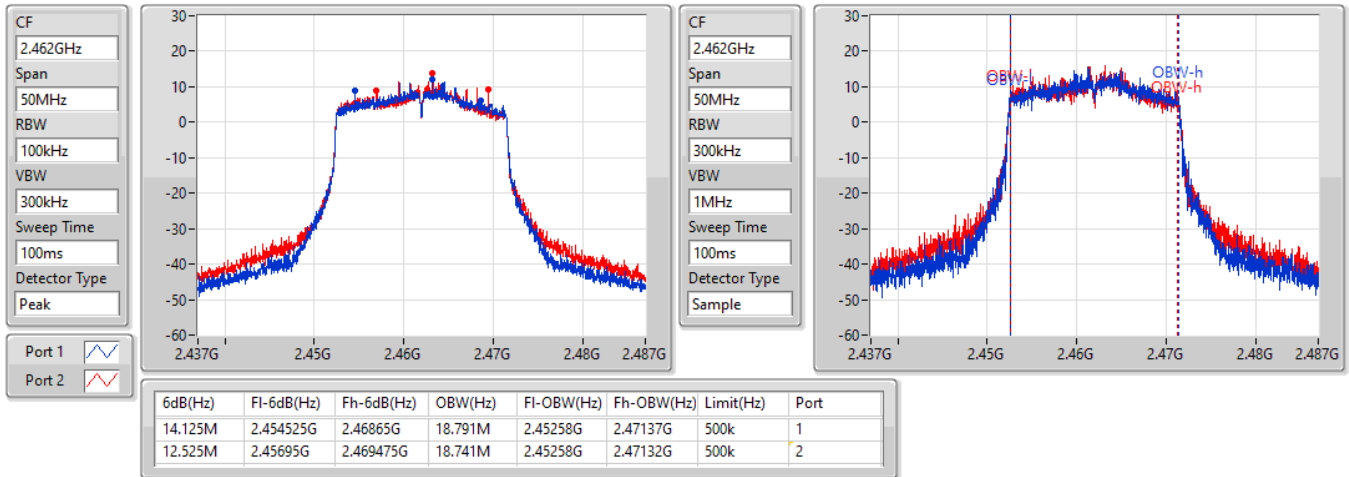

802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2437MHz

13/07/2022

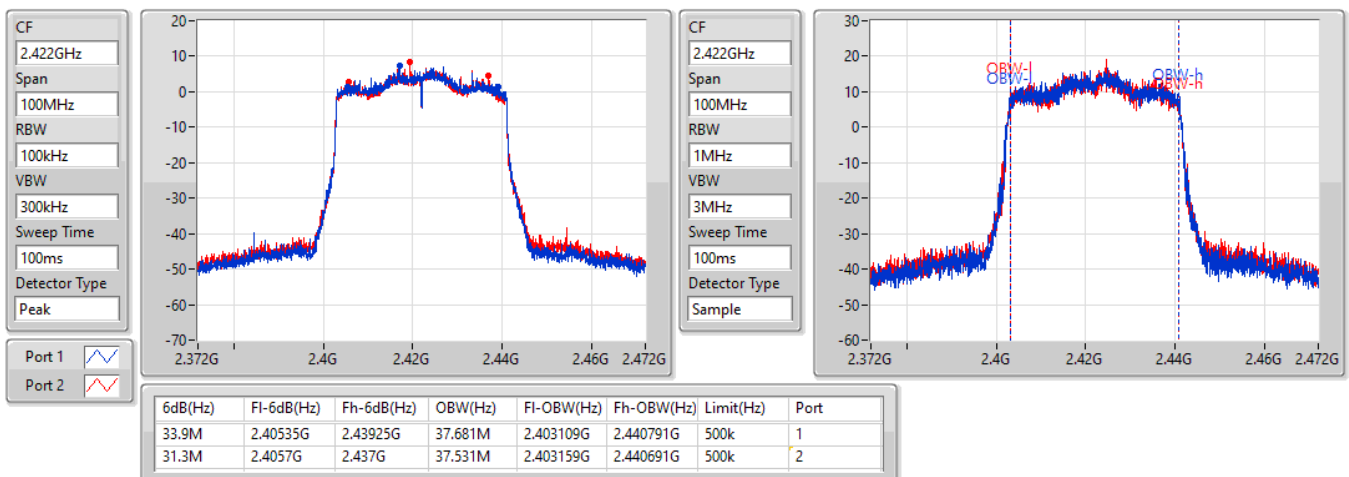


802.11ax HEW20_Nss1,(MCS0)_2TX
EBW
2462MHz

13/07/2022


802.11ax HEW40_Nss1,(MCS0)_2TX
EBW
2422MHz

13/07/2022

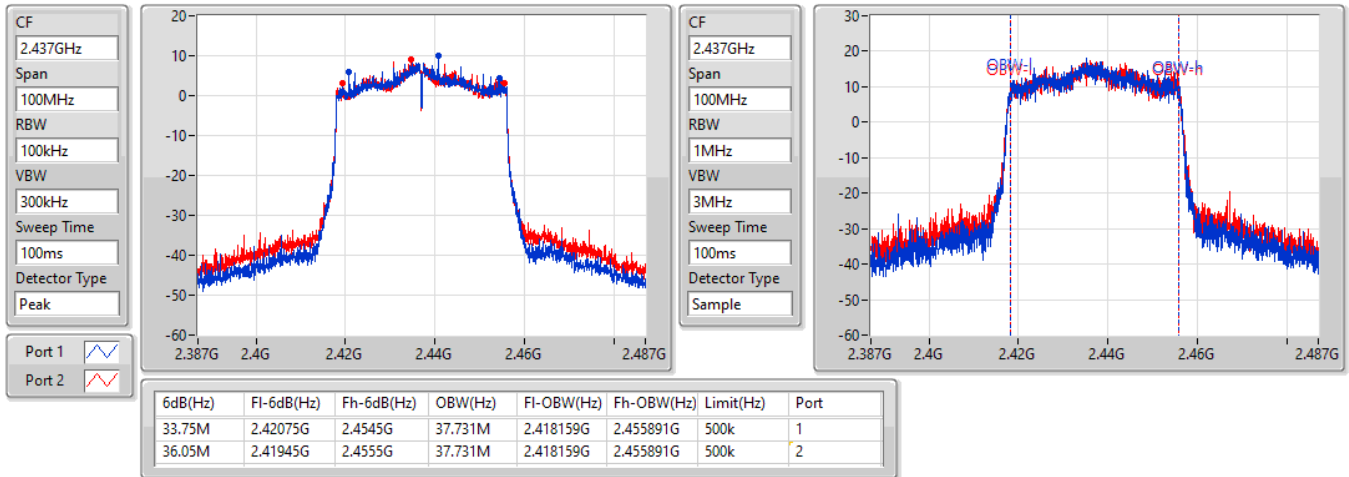


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2437MHz

13/07/2022

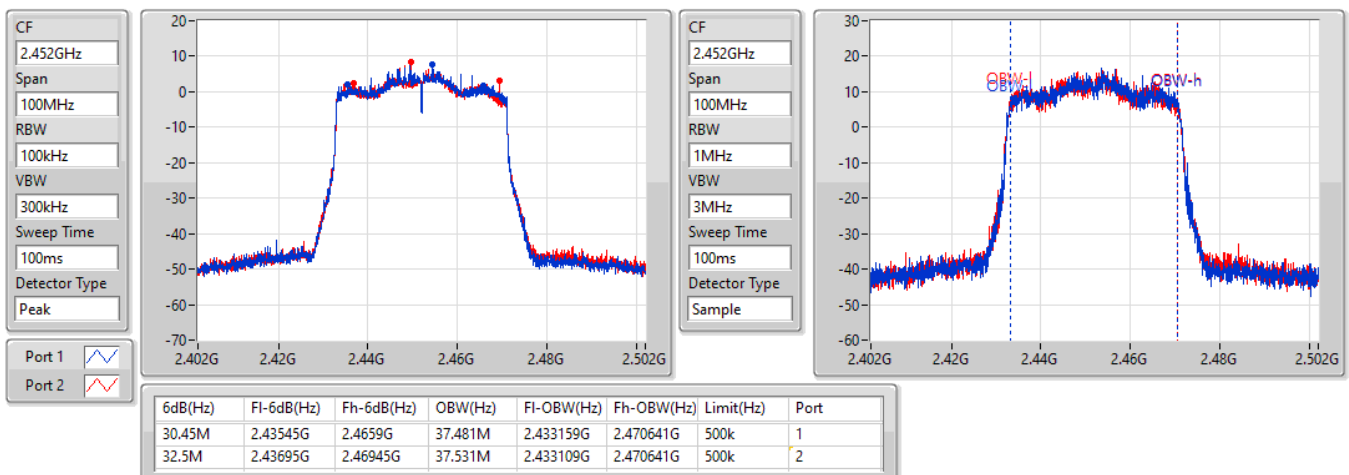


802.11ax HEW40_Nss1,(MCS0)_2TX

EBW

2452MHz

13/07/2022





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_2TX	27.37	0.54576
802.11g_Nss1,(6Mbps)_2TX	26.81	0.47973
802.11ax HEW20_Nss1,(MCS0)_2TX	26.17	0.41400
802.11ax HEW40_Nss1,(MCS0)_2TX	25.14	0.32659

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.47	23.15	23.03	26.10	30.00
2437MHz	Pass	4.47	24.43	24.29	27.37	30.00
2462MHz	Pass	4.47	22.95	22.84	25.91	30.00
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.47	21.78	21.83	24.82	30.00
2437MHz	Pass	4.47	23.85	23.75	26.81	30.00
2462MHz	Pass	4.47	21.39	21.27	24.34	30.00
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	4.47	21.17	21.36	24.28	30.00
2437MHz	Pass	4.47	23.24	23.08	26.17	30.00
2462MHz	Pass	4.47	21.65	21.61	24.64	30.00
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	4.47	20.92	20.65	23.80	30.00
2437MHz	Pass	4.47	22.07	22.19	25.14	30.00
2452MHz	Pass	4.47	20.18	20.15	23.18	30.00

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



Average Power

Appendix C.2

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	26.17	0.41400
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	25.14	0.32659



Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11ax HEW20-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.46	21.17	21.36	24.28	28.54
2437MHz	Pass	7.46	23.24	23.08	26.17	28.54
2462MHz	Pass	7.46	21.65	21.61	24.64	28.54
802.11ax HEW40-BF_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.46	20.92	20.65	23.80	28.54
2437MHz	Pass	7.46	22.07	22.19	25.14	28.54
2452MHz	Pass	7.46	20.18	20.15	23.18	28.54

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_2TX	3.45
802.11g_Nss1,(6Mbps)_2TX	0.44
802.11ax HEW20_Nss1,(MCS0)_2TX	0.26
802.11ax HEW40_Nss1,(MCS0)_2TX	-1.86

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.46	-0.73	-0.33	2.06	6.54
2437MHz	Pass	7.46	1.47	1.33	3.45	6.54
2462MHz	Pass	7.46	0.30	0.07	2.03	6.54
802.11g_Nss1,(6Mbps)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.46	-3.26	-3.53	-1.75	6.54
2437MHz	Pass	7.46	-1.87	-1.81	0.44	6.54
2462MHz	Pass	7.46	-4.81	-4.99	-1.95	6.54
802.11ax HEW20_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2412MHz	Pass	7.46	-3.45	-3.08	-1.62	6.54
2437MHz	Pass	7.46	-2.59	-2.35	0.26	6.54
2462MHz	Pass	7.46	-4.33	-4.07	-1.41	6.54
802.11ax HEW40_Nss1,(MCS0)_2TX	-	-	-	-	-	-
2422MHz	Pass	7.46	-6.28	-6.05	-4.57	6.54
2437MHz	Pass	7.46	-4.09	-4.06	-1.86	6.54
2452MHz	Pass	7.46	-7.68	-7.36	-4.95	6.54

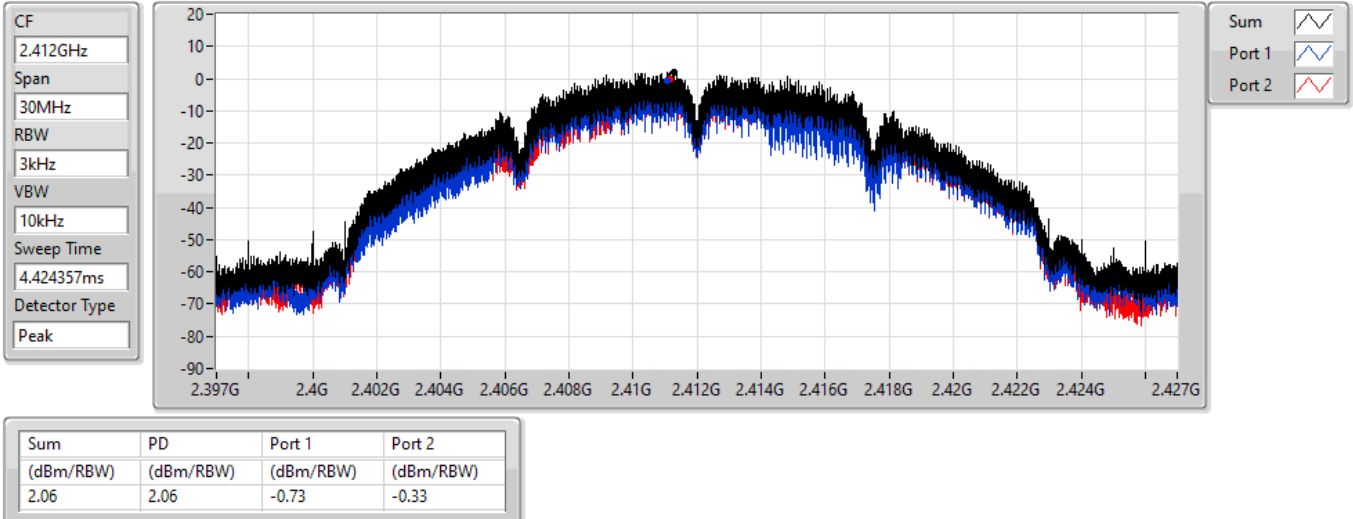
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

802.11b_Nss1,(1Mbps)_2TX

PSD

2412MHz

13/07/2022

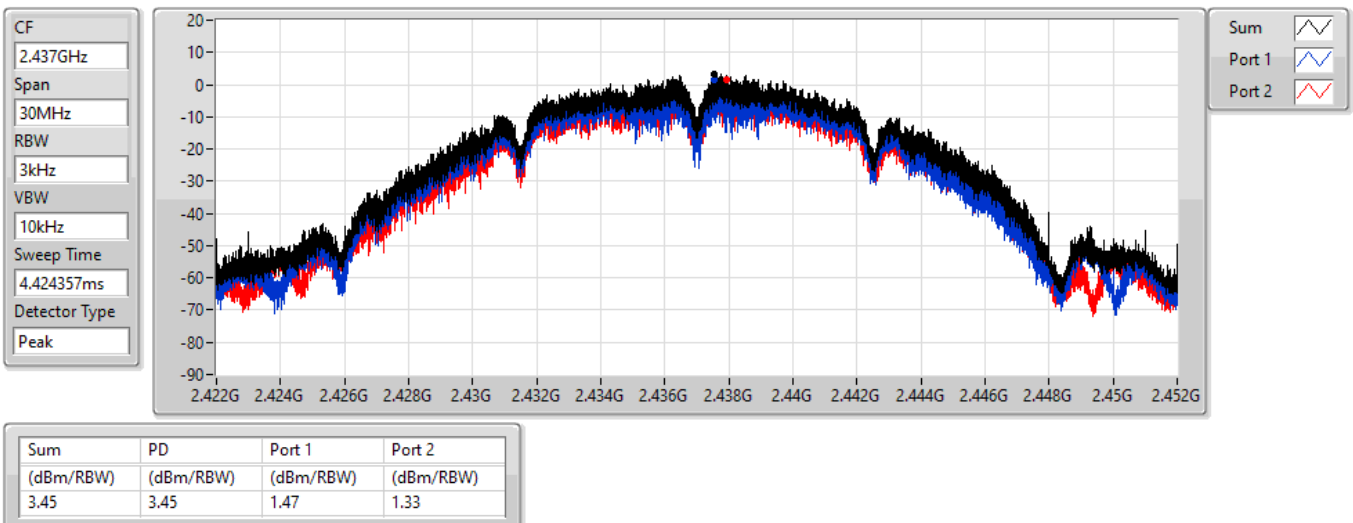


802.11b_Nss1,(1Mbps)_2TX

PSD

2437MHz

13/07/2022

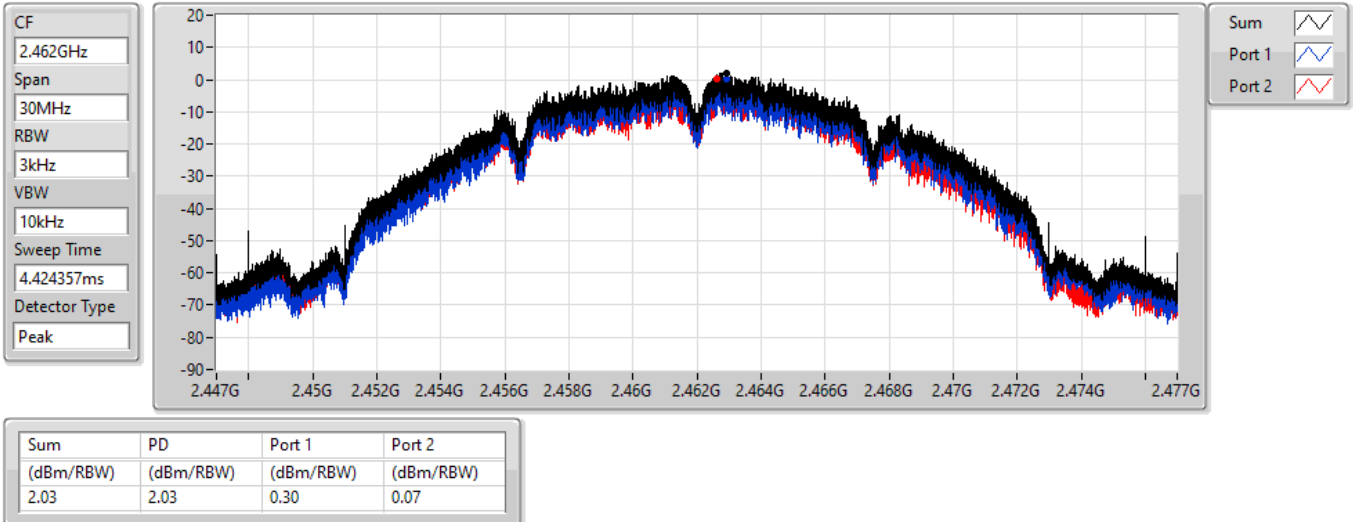


802.11b_Nss1,(1Mbps)_2TX

PSD

2462MHz

13/07/2022

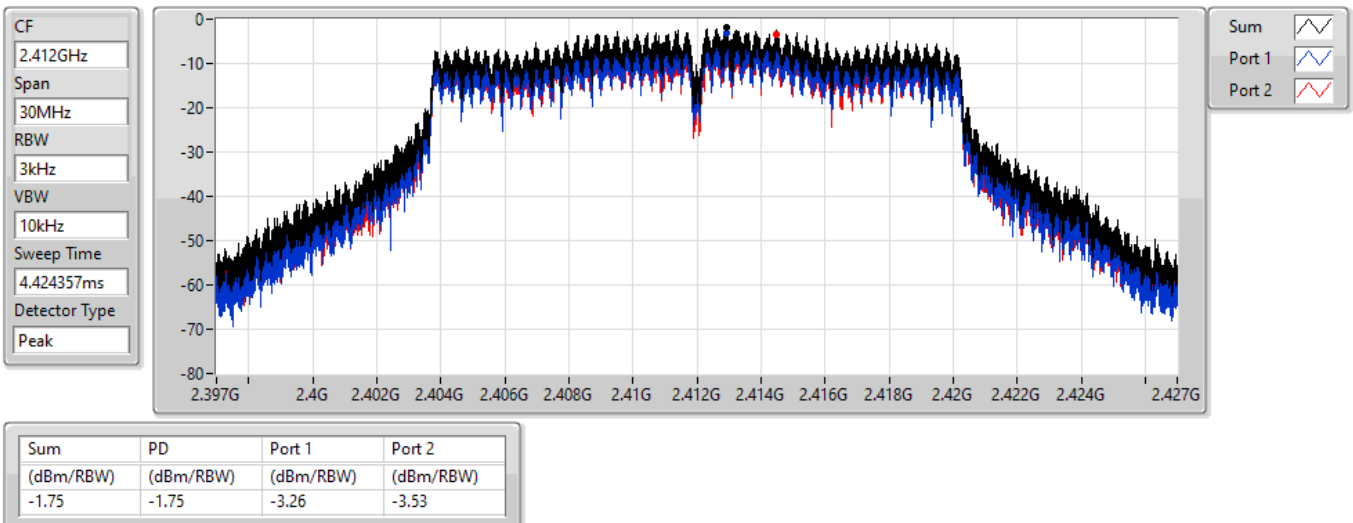


802.11g_Nss1,(6Mbps)_2TX

PSD

2412MHz

13/07/2022

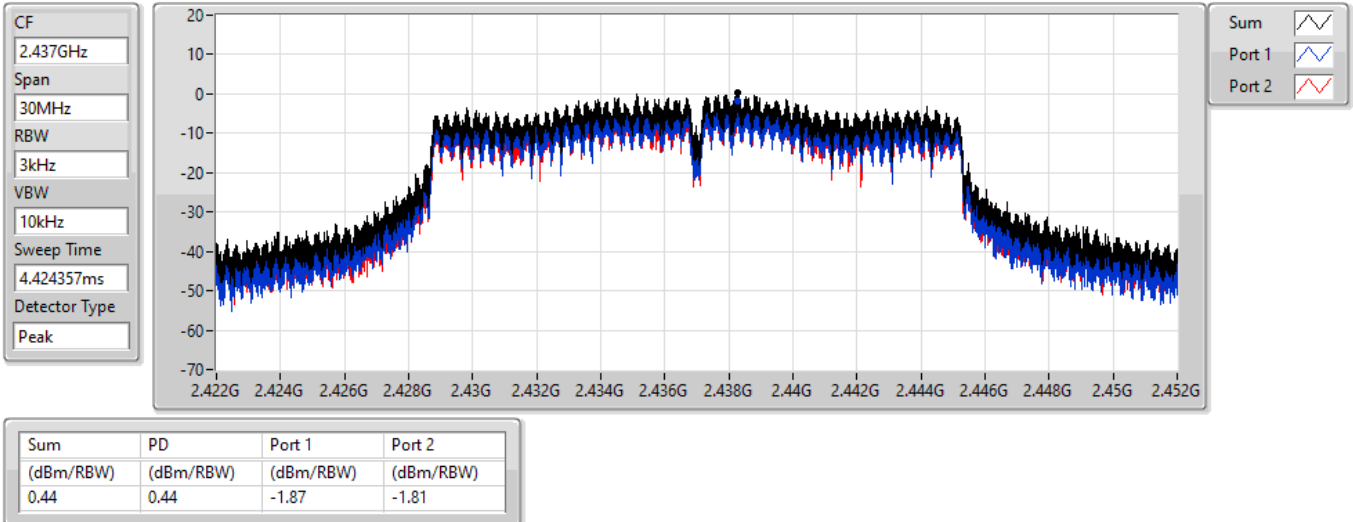


802.11g_Nss1,(6Mbps)_2TX

PSD

2437MHz

13/07/2022

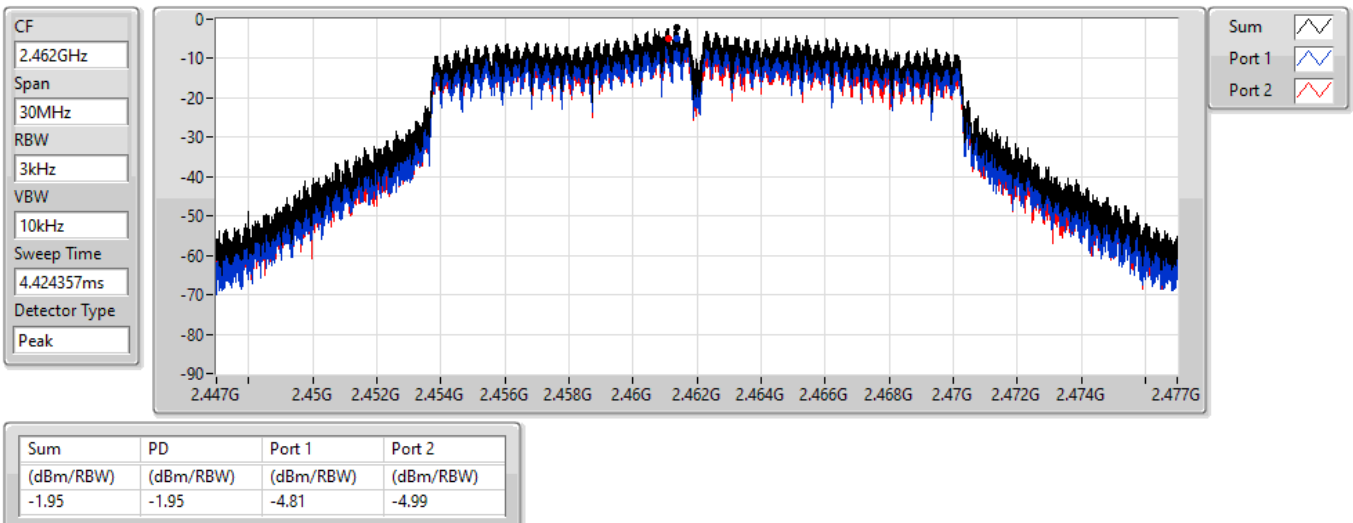


802.11g_Nss1,(6Mbps)_2TX

PSD

2462MHz

13/07/2022

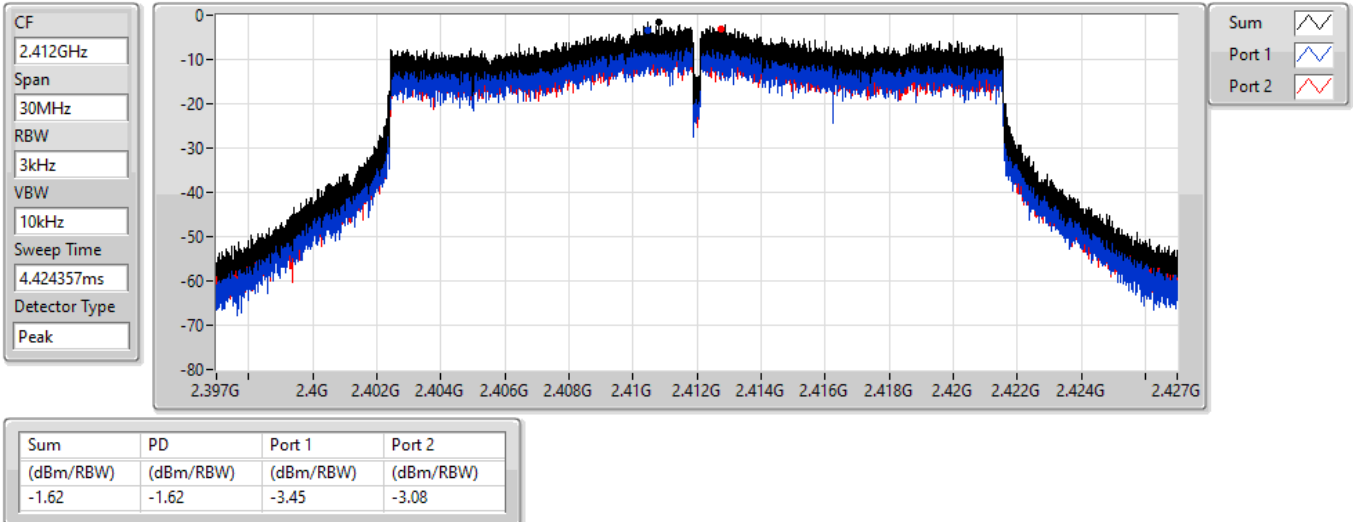


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2412MHz

13/07/2022

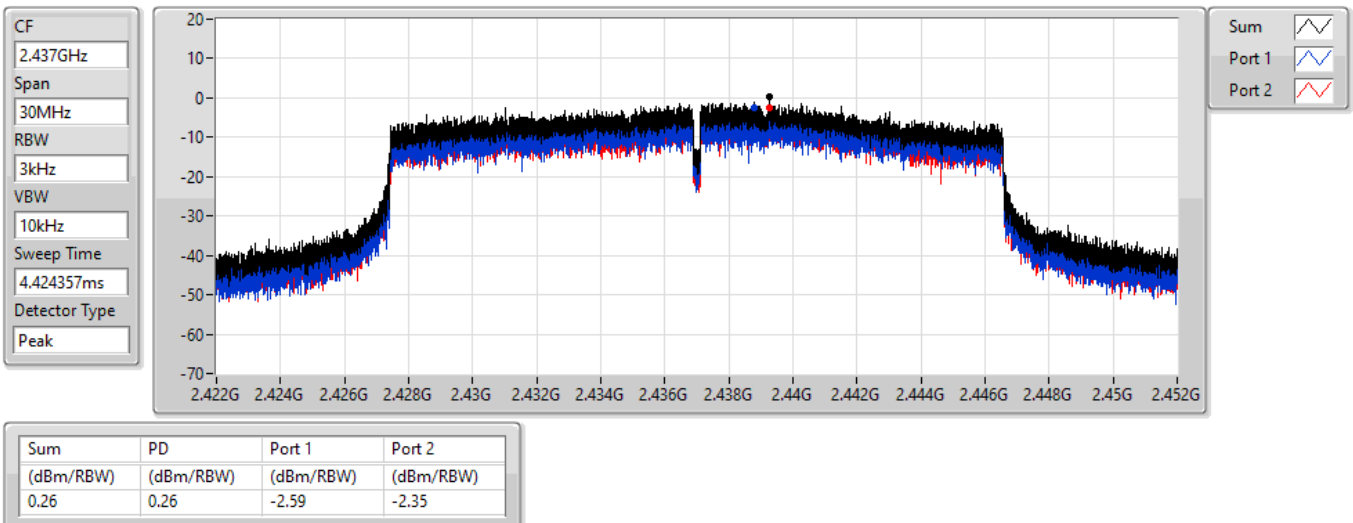


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2437MHz

13/07/2022

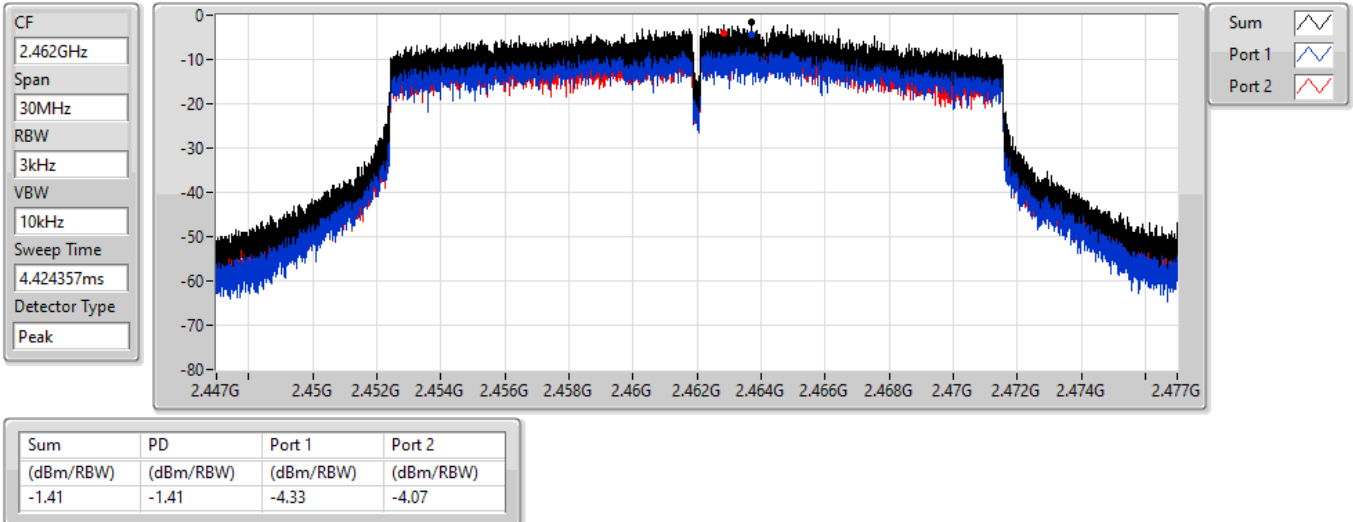


802.11ax HEW20_Nss1,(MCS0)_2TX

PSD

2462MHz

13/07/2022

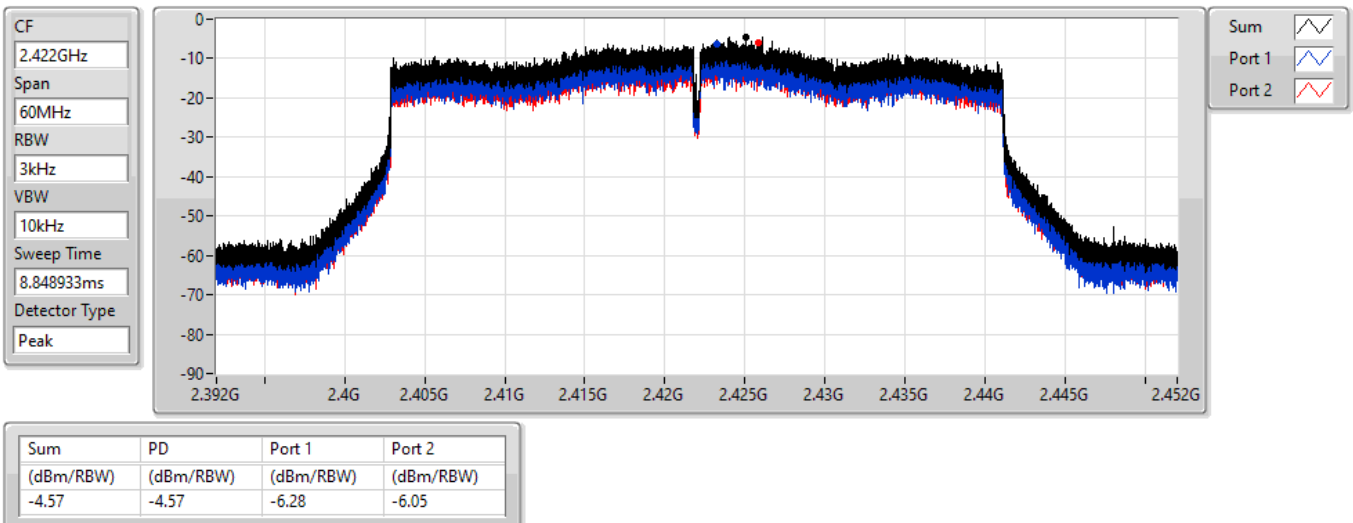


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2422MHz

13/07/2022

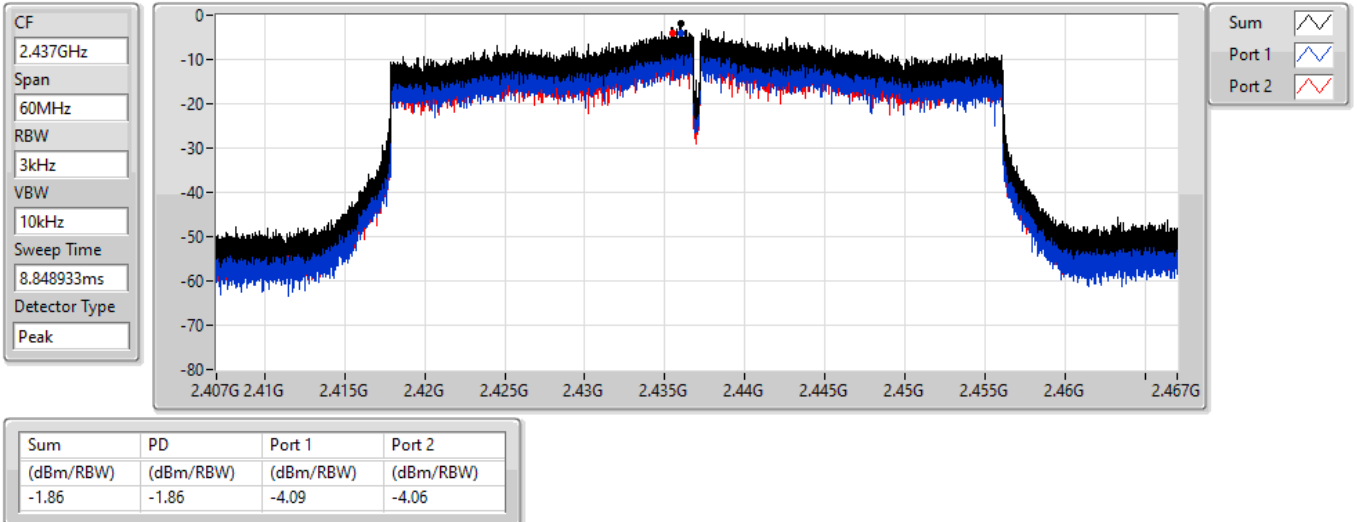


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2437MHz

13/07/2022

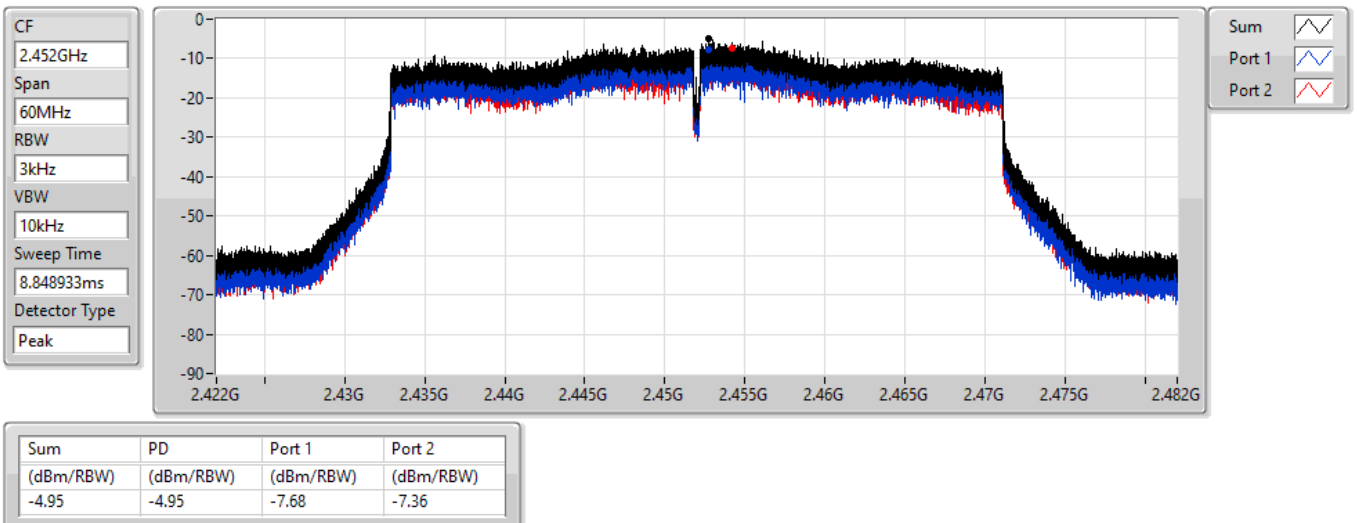


802.11ax HEW40_Nss1,(MCS0)_2TX

PSD

2452MHz

13/07/2022





Summary

Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1(1Mbps)_2TX	Pass	2.43799G	16.38	-13.62	2.00002G	-48.38	2.39992G	-37.81	2.4G	-39.32	2.50654G	-48.25	7.23233G	-30.77	2
802.11g_Nss1(6Mbps)_2TX	Pass	2.43824G	15.12	-14.88	2.10108G	-51.34	2.39978G	-27.91	2.4G	-29.08	2.48856G	-49.19	7.23233G	-36.99	2
802.11ax HEW20_Nss1.(MCS0)_2TX	Pass	2.4395G	13.96	-16.04	2.00031G	-51.34	2.4G	-26.74	2.4G	-25.84	2.48366G	-48.23	7.23795G	-36.13	2
802.11ax HEW40_Nss1.(MCS0)_2TX	Pass	2.44075G	9.92	-20.08	2.30311G	-51.36	2.39988G	-33.27	2.4G	-33.64	2.5039G	-48.61	17.69131G	-43.84	1

Result

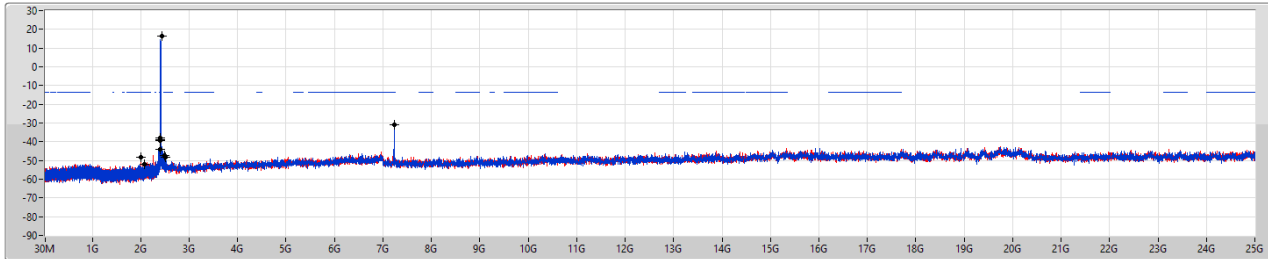
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
802.11b_Nss1(1Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43799G	16.38	-13.62	2.08419G	-51.97	2.39884G	-38.69	2.4G	-44.21	2.49598G	-47.55	7.23514G	-30.83	1
2412MHz	Pass	2.43799G	16.38	-13.62	2.00002G	-48.38	2.39992G	-37.81	2.4G	-39.32	2.50654G	-48.25	7.23233G	-30.77	2
2437MHz	Pass	2.43799G	16.38	-13.62	791.62M	-51.31	2.39998G	-42.32	2.4G	-40.92	2.496G	-42.79	17.17256G	-43.45	1
2437MHz	Pass	2.43799G	16.38	-13.62	2.08826G	-50.74	2.39842G	-47.06	2.4G	-47.71	2.49494G	-45.65	16.25383G	-43.30	2
2462MHz	Pass	2.43799G	16.38	-13.62	2.0903G	-50.58	2.39998G	-47.49	2.4G	-47.33	2.49196G	-44.05	21.76057G	-44.41	1
2462MHz	Pass	2.43799G	16.38	-13.62	2.00002G	-49.77	2.39768G	-48.66	2.4835G	-47.64	2.48398G	-45.20	14.73105G	-44.41	2
802.11g_Nss1(6Mbps)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	15.12	-14.88	2.12525G	-51.44	2.4G	-29.22	2.4G	-28.46	2.48964G	-48.82	7.23795G	-35.33	1
2412MHz	Pass	2.43824G	15.12	-14.88	2.10108G	-51.34	2.39978G	-27.91	2.4G	-29.08	2.48856G	-49.19	7.23233G	-36.99	2
2437MHz	Pass	2.43824G	15.12	-14.88	2.10457G	-51.21	2.39978G	-43.51	2.4G	-44.37	2.48354G	-46.82	14.99234G	-43.83	1
2437MHz	Pass	2.43824G	15.12	-14.88	2.09729G	-50.80	2.39938G	-38.56	2.4G	-40.67	2.48468G	-44.30	15.05696G	-43.42	2
2462MHz	Pass	2.43824G	15.12	-14.88	808.51M	-50.27	2.39998G	-48.70	2.4G	-48.36	2.4866G	-46.31	24.83424G	-44.13	1
2462MHz	Pass	2.43824G	15.12	-14.88	2.00031G	-49.86	2.39908G	-48.98	2.4835G	-46.24	2.4857G	-43.32	24.13185G	-43.36	2
802.11ax HEW20_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.4395G	13.96	-16.04	684.15M	-52.11	2.39982G	-28.96	2.4G	-29.97	2.50554G	-49.11	7.23233G	-35.03	1
2412MHz	Pass	2.4395G	13.96	-16.04	2.00031G	-51.34	2.4G	-26.74	2.4G	-25.84	2.48366G	-48.23	7.23795G	-36.13	2
2437MHz	Pass	2.4395G	13.96	-16.04	896.47M	-50.89	2.39996G	-41.01	2.4G	-43.25	2.4851G	-46.33	23.48284G	-44.04	1
2437MHz	Pass	2.4395G	13.96	-16.04	2.00031G	-49.02	2.39998G	-38.76	2.4G	-39.84	2.48494G	-45.16	15.04853G	-43.46	2
2462MHz	Pass	2.4395G	13.96	-16.04	1.95283G	-51.24	2.4G	-48.81	2.4835G	-44.20	2.48386G	-42.38	24.14308G	-43.95	1
2462MHz	Pass	2.4395G	13.96	-16.04	2.11943G	-51.01	2.39842G	-49.66	2.4835G	-40.27	2.4839G	-38.96	24.85952G	-44.64	2
802.11ax HEW40_Nss1(MCS0)_2TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.44075G	9.92	-20.08	2.30311G	-51.36	2.39988G	-33.27	2.4G	-33.64	2.5039G	-48.61	17.69131G	-43.84	1
2422MHz	Pass	2.44075G	9.92	-20.08	2.0973G	-51.01	2.39948G	-33.89	2.4G	-34.62	2.49194G	-47.00	7.24992G	-39.69	2
2437MHz	Pass	2.44075G	9.92	-20.08	2.12306G	-50.62	2.39572G	-39.61	2.4G	-42.23	2.48474G	-43.07	16.26379G	-43.51	1
2437MHz	Pass	2.44075G	9.92	-20.08	2.3054G	-50.74	2.39696G	-37.09	2.4G	-40.76	2.48946G	-38.24	15.3495G	-44.03	2
2452MHz	Pass	2.44075G	9.92	-20.08	2.09902G	-49.61	2.4G	-47.16	2.4835G	-48.43	2.48474G	-45.74	17.29306G	-44.04	1
2452MHz	Pass	2.44075G	9.92	-20.08	917.66M	-51.40	2.39912G	-47.72	2.4835G	-46.14	2.48442G	-43.83	21.79999G	-43.81	2

802.11b_Nss1,(1Mbps)_2TX

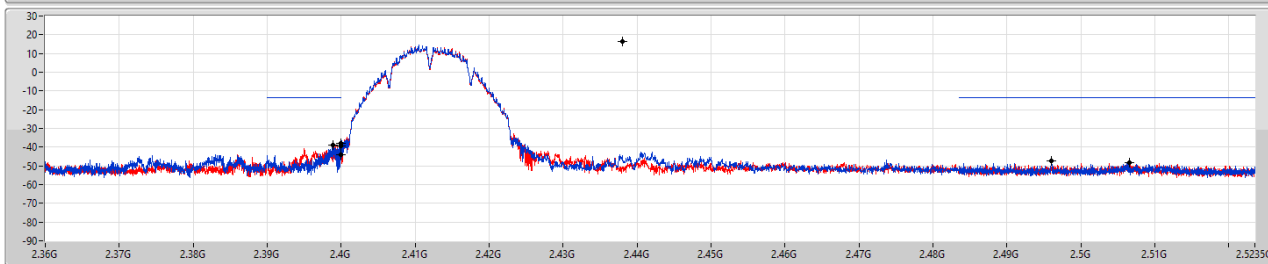
2412MHz

CSENdB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

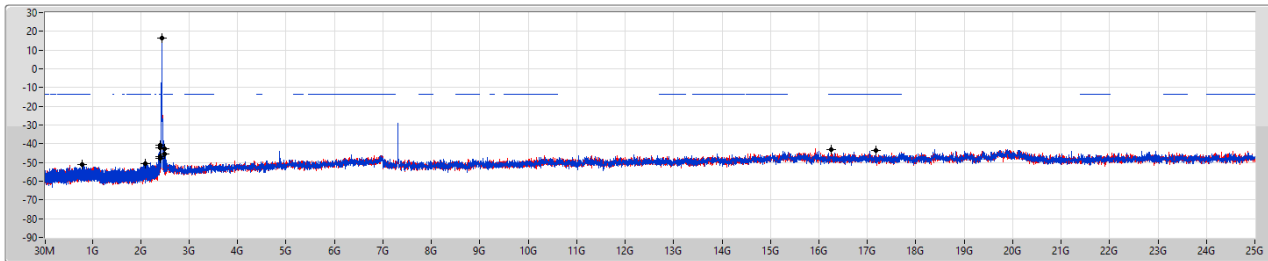
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	16.38	-13.62	2.08419G	-51.97	2.39884G	-38.69	2.4G	-44.21	2.49598G	-47.55	7.23514G	-30.83	1
2.43799G	16.38	-13.62	2.00002G	-48.38	2.39992G	-37.81	2.4G	-39.32	2.50654G	-48.25	7.23233G	-30.77	2

802.11b_Nss1,(1Mbps)_2TX

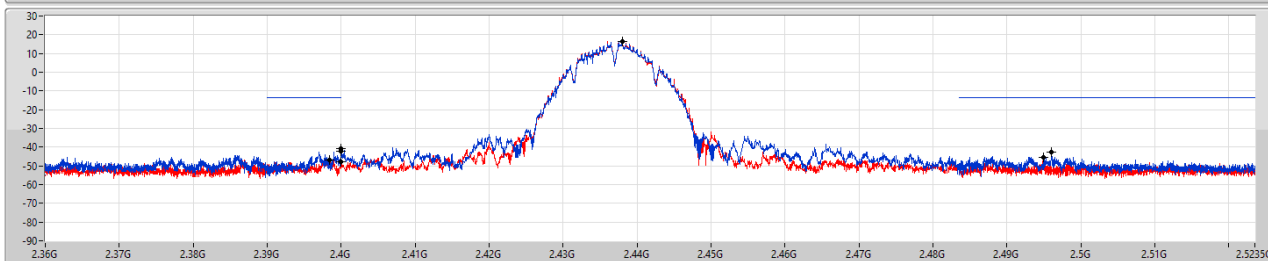
2437MHz

CSENdB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

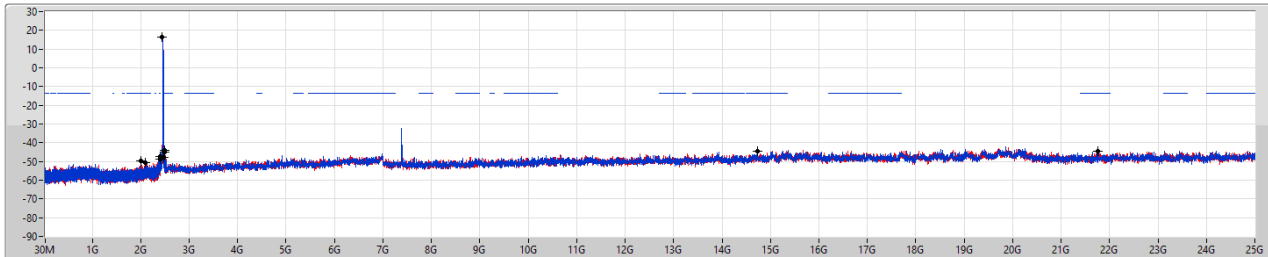
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2.43799G	16.38	-13.62	791.62M	-51.31	2.39998G	-42.32	2.4G	-40.92	2.496G	-42.79	17.17256G	-43.45	1
2.43799G	16.38	-13.62	2.08826G	-50.74	2.39842G	-47.06	2.4G	-47.71	2.49494G	-45.65	16.25383G	-43.30	2

802.11b_Nss1,(1Mbps)_2TX

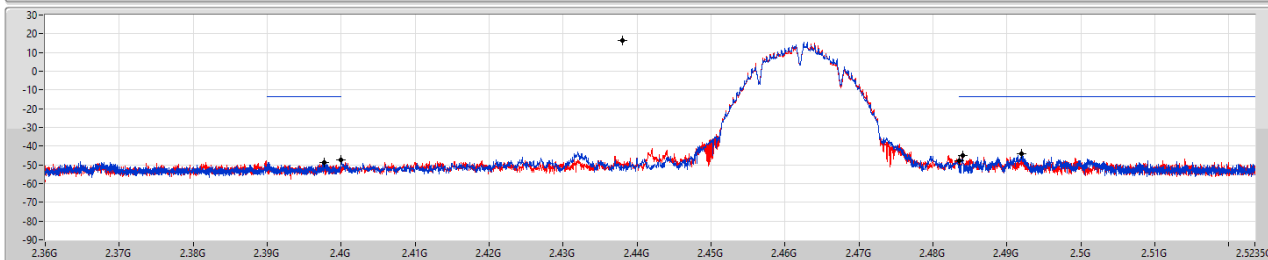
2462MHz

CSEndB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

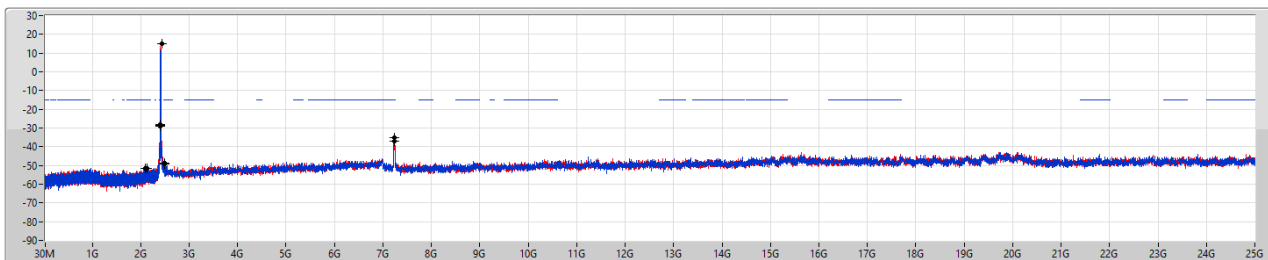
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43799G	16.38	-13.62	2.0903G	-50.58	2.39998G	-47.49	2.4G	-47.33	2.49196G	-44.05	2.76057G	-44.41	1
2.43799G	16.38	-13.62	2.00002G	-49.77	2.39768G	-48.66	2.4835G	-47.64	2.48398G	-45.20	14.73105G	-44.41	2

802.11g_Nss1,(6Mbps)_2TX

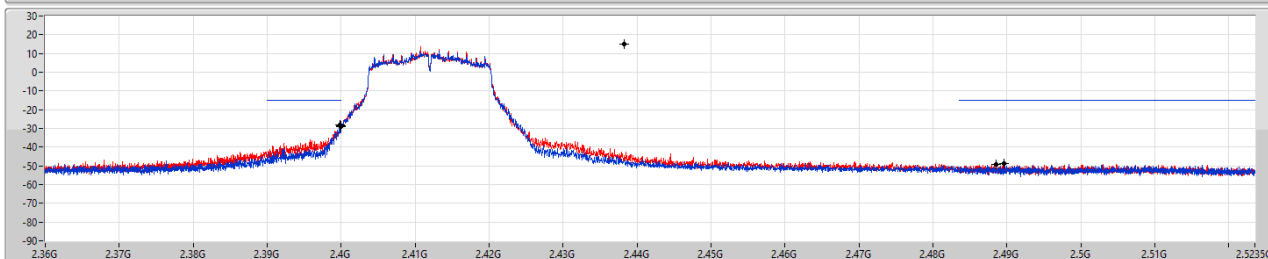
2412MHz

CSEndB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

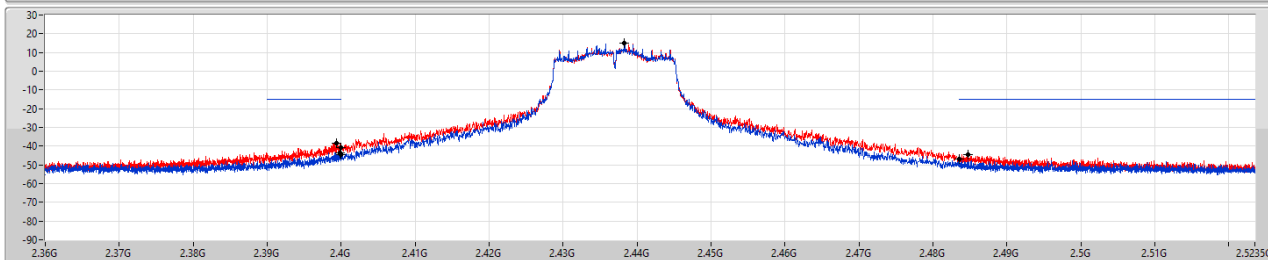
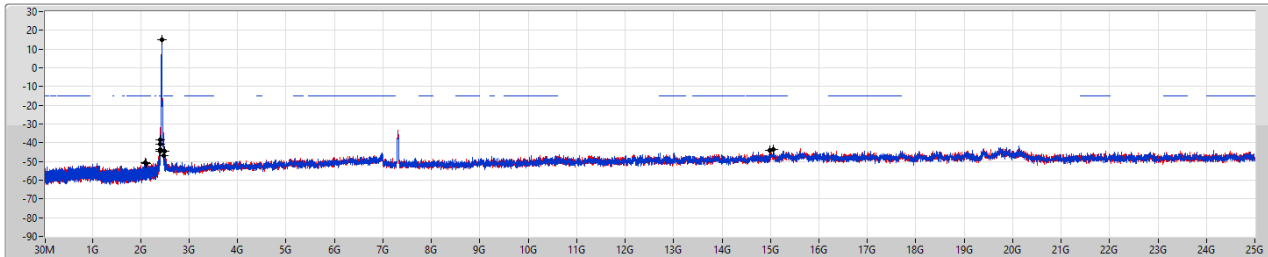
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	15.12	-14.88	2.12525G	-51.44	2.4G	-29.22	2.4G	-28.46	2.48964G	-48.82	7.23795G	-35.33	1
2.43824G	15.12	-14.88	2.10108G	-51.34	2.39978G	-27.91	2.4G	-29.08	2.48656G	-49.19	7.23233G	-36.99	2

802.11g_Nss1,(6Mbps)_2TX

2437MHz

CSEndB

13/07/2022



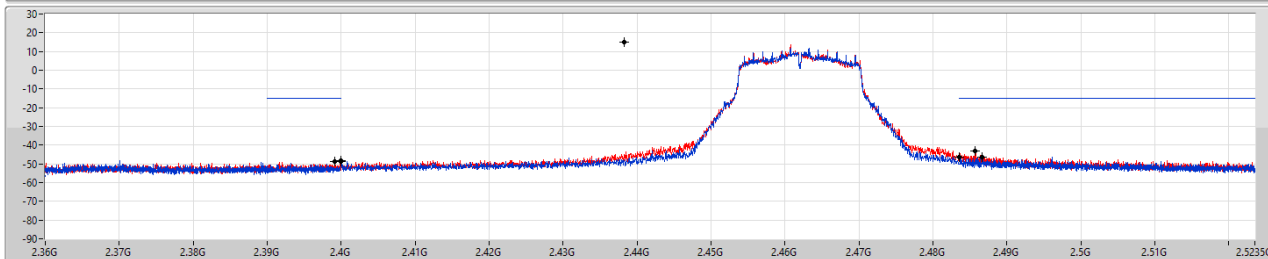
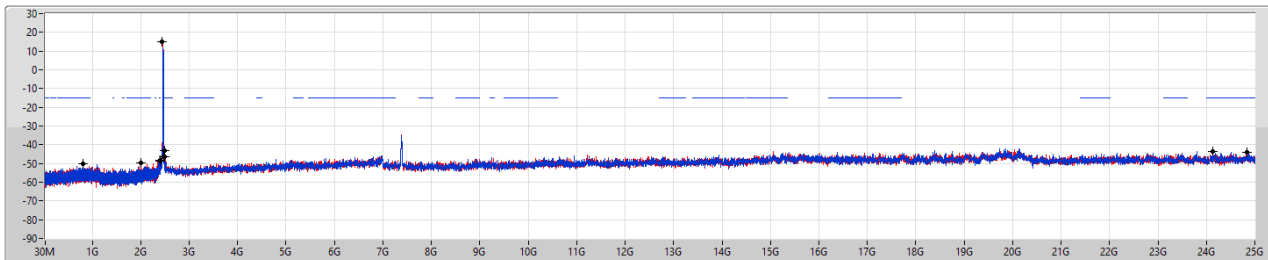
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	15.12	-14.88	2.10457G	-51.21	2.39978G	-43.51	2.4G	-44.37	2.48354G	-46.82	14.99234G	-43.83	1
2.43824G	15.12	-14.88	2.09729G	-50.80	2.39938G	-38.56	2.4G	-40.67	2.48468G	-44.30	15.05696G	-43.42	2

802.11g_Nss1,(6Mbps)_2TX

2462MHz

CSEndB

13/07/2022



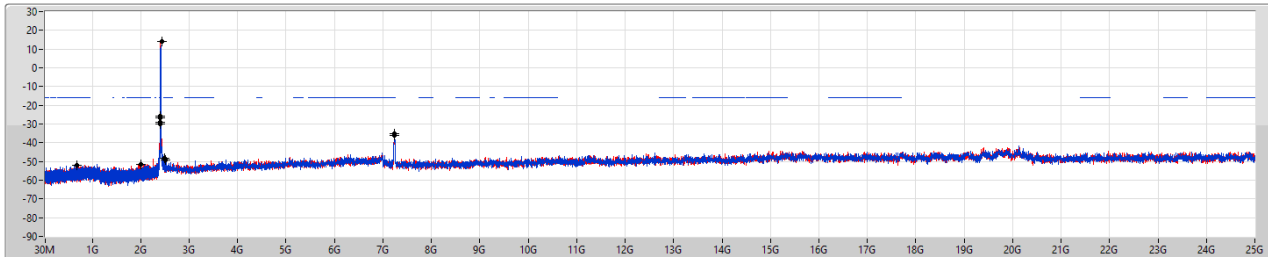
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2.43824G	15.12	-14.88	808.51M	-50.27	2.39998G	-48.70	2.4G	-48.36	2.4866G	-46.31	24.83424G	-44.13	1
2.43824G	15.12	-14.88	2.00031G	-49.86	2.39908G	-48.98	2.4835G	-46.24	2.4857G	-43.32	24.13185G	-43.36	2

802.11ax HEW20_Nss1,(MCS0)_2TX

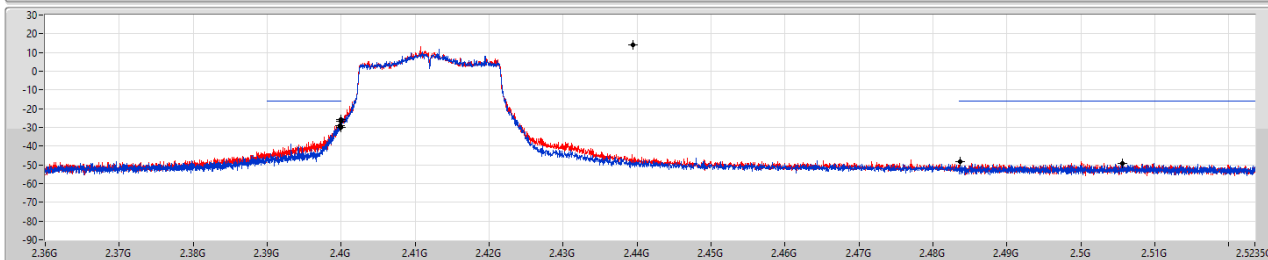
CSENdB

2412MHz

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

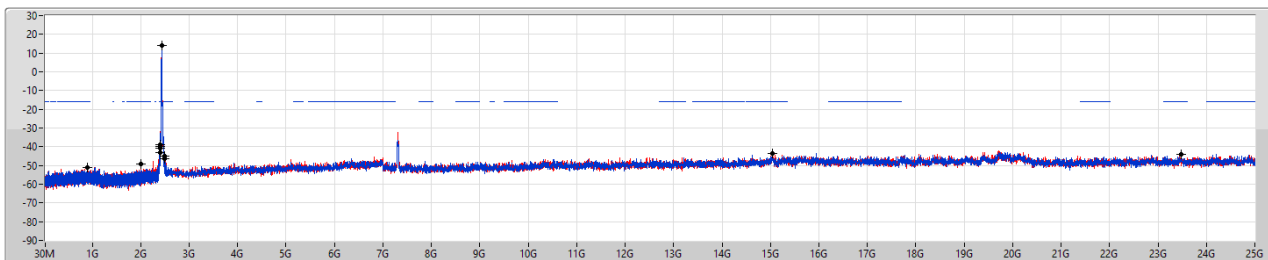
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4395G	13.96	-16.04	684.15M	-52.11	2.39982G	-28.96	2.4G	-29.97	2.50554G	-49.11	7.23233G	-35.03	1
2.4395G	13.96	-16.04	2.00031G	-51.34	2.4G	-26.74	2.4G	-25.84	2.48366G	-48.23	7.23795G	-36.13	2

802.11ax HEW20_Nss1,(MCS0)_2TX

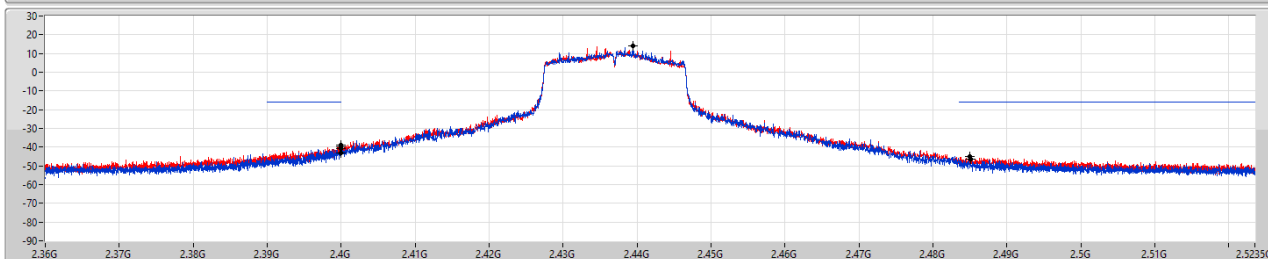
CSENdB

2437MHz

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

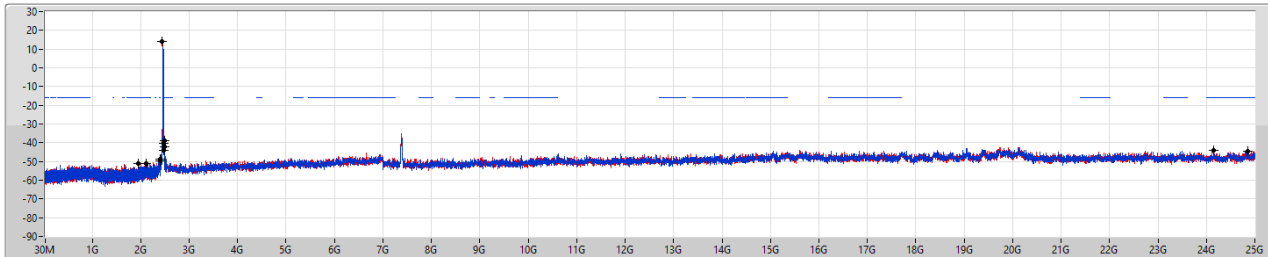
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2.4395G	13.96	-16.04	896.47M	-50.89	2.39996G	-41.01	2.4G	-43.25	2.4851G	-46.33	23.48284G	-44.04	1
2.4395G	13.96	-16.04	2.00031G	-49.02	2.39998G	-38.76	2.4G	-39.84	2.48494G	-45.16	15.04853G	-43.46	2

802.11ax HEW20_Nss1,(MCS0)_2TX

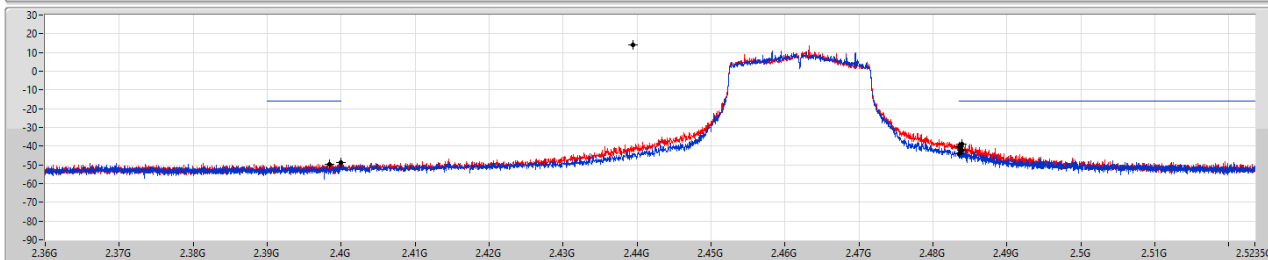
2462MHz

CSEndB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

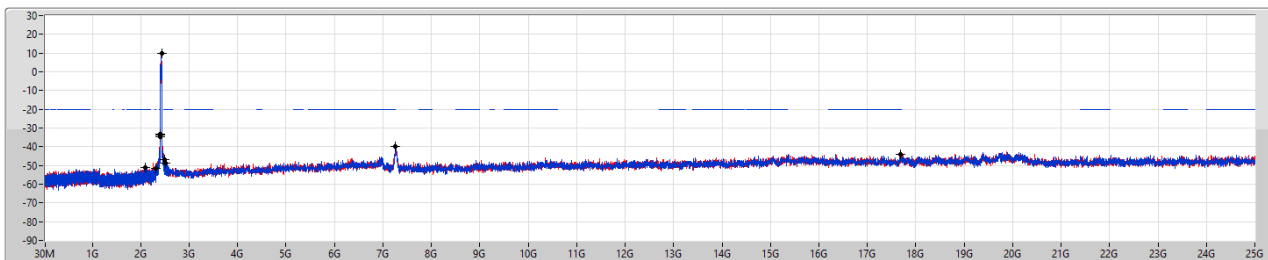
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.4395G	13.96	-16.04	1.95283G	-51.24	2.4G	-48.81	2.4835G	-44.20	2.48386G	-42.38	2.414308G	-43.95	1
2.4395G	13.96	-16.04	2.11943G	-51.01	2.39842G	-49.66	2.4835G	-40.27	2.4839G	-38.96	2.485952G	-44.64	2

802.11ax HEW40_Nss1,(MCS0)_2TX

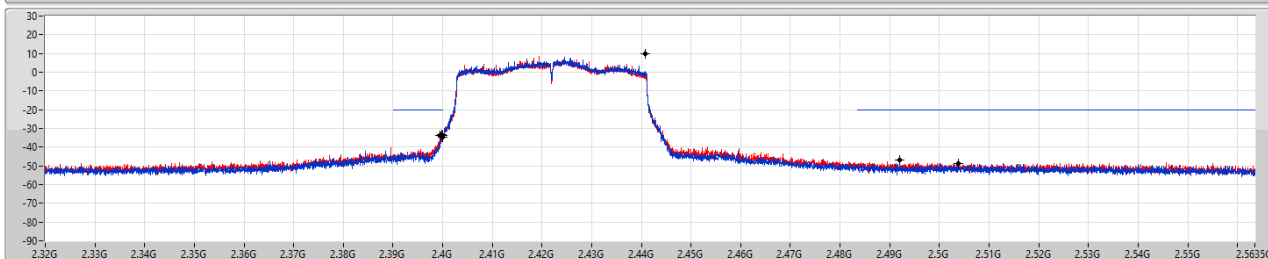
2422MHz

CSEndB

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

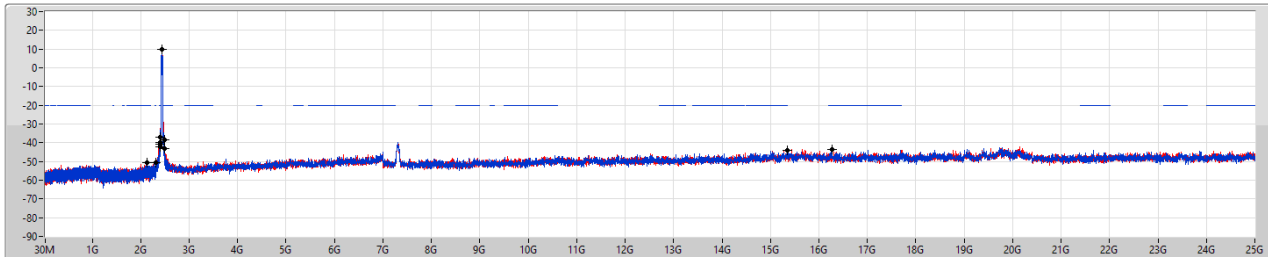
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	9.92	-20.08	2.30311G	-51.36	2.39988G	-33.27	2.4G	-33.64	2.5039G	-48.61	17.69131G	-43.84	1
2.44075G	9.92	-20.08	2.0973G	-51.01	2.39948G	-33.89	2.4G	-34.62	2.49194G	-47.00	7.24992G	-39.69	2

802.11ax HEW40_Nss1,(MCS0)_2TX

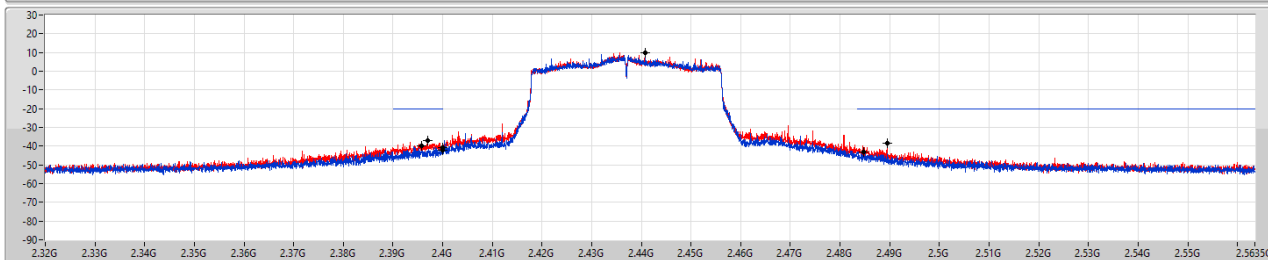
CSENdB

2437MHz

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

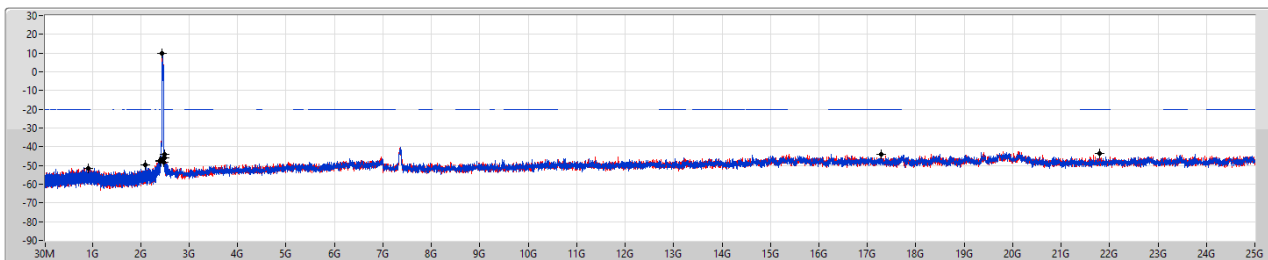
Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	9.92	-20.08	2.12306G	-50.62	2.39572G	-39.61	2.4G	-42.23	2.48474G	-43.07	16.26379G	-43.51	1
2.44075G	9.92	-20.08	2.3054G	-50.74	2.39696G	-37.09	2.4G	-40.76	2.48946G	-38.24	15.3495G	-44.03	2

802.11ax HEW40_Nss1,(MCS0)_2TX

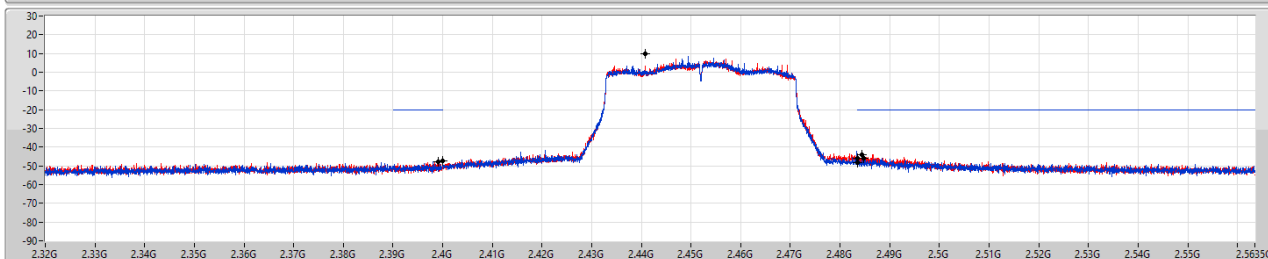
CSENdB

2452MHz

13/07/2022



Port 1
Port 2



RBW (Hz)
100k
VBW (Hz)
300k
Detector
Peak

Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.44075G	9.92	-20.08	2.09902G	-49.61	2.4G	-47.16	2.4835G	-48.43	2.48474G	-45.74	17.29306G	-44.04	1
2.44075G	9.92	-20.08	917.66M	-51.40	2.39912G	-47.72	2.4835G	-46.14	2.48442G	-43.83	21.79999G	-43.81	2



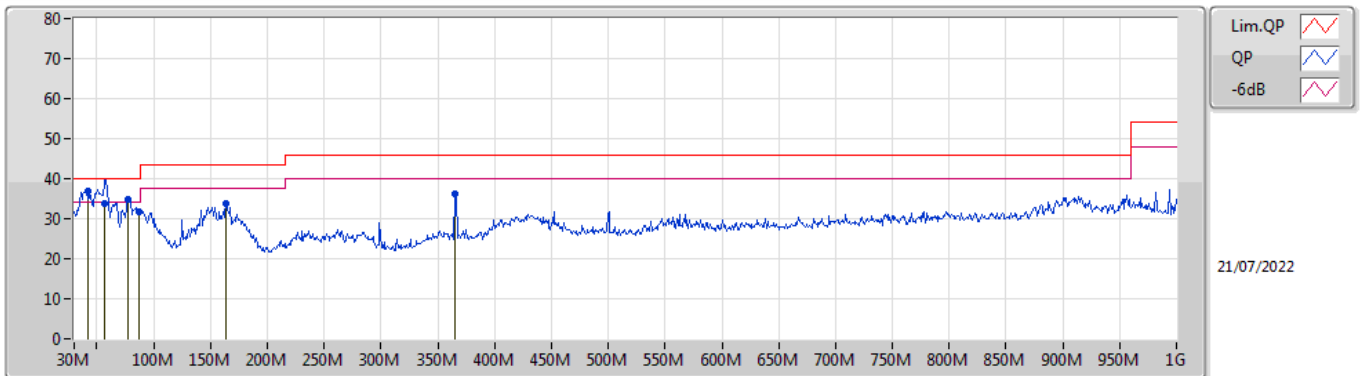
Radiated Emissions below 1GHz

Appendix F.1

Summary

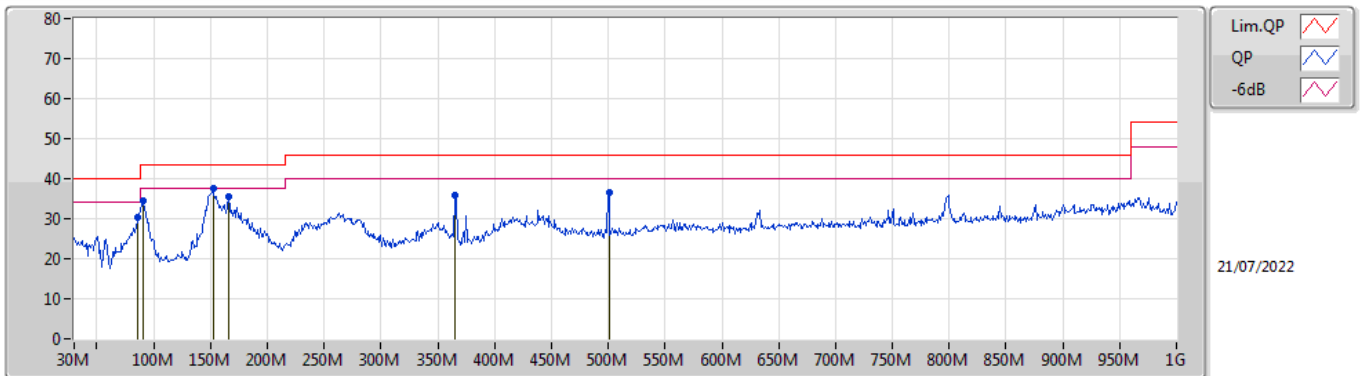
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	42.61M	36.89	40.00	-3.11	Vertical

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	42.61M	36.89	40.00	-3.11	-13.61	3	Vertical	358	1.00	"Worst"	50.50	17.23	0.95	31.79
QP	57.16M	33.77	40.00	-6.23	-18.33	3	Vertical	305	1.00	-	52.10	12.43	1.14	31.90
PK	77.53M	34.83	40.00	-5.17	-18.14	3	Vertical	209	1.00	-	52.97	12.49	1.35	31.98
PK	87.23M	31.59	40.00	-8.41	-16.49	3	Vertical	113	1.50	-	48.08	14.02	1.44	31.95
PK	163.86M	33.87	43.50	-9.63	-14.29	3	Vertical	360	1.00	-	48.16	15.67	2.02	31.98
PK	364.65M	36.31	46.00	-9.69	-8.40	3	Vertical	153	1.25	-	44.71	20.71	3.06	32.17

Mode 2



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB/m)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	Raw (dBuV/m)	AF (dB/m)	CL (dB)	PA (dB)
PK	86.26M	30.31	40.00	-9.69	-16.63	3	Horizontal	157	2.00	-	46.94	13.89	1.43	31.95
PK	91.11M	34.33	43.50	-9.17	-15.53	3	Horizontal	173	2.00	-	49.86	14.95	1.48	31.96
PK	152.22M	37.46	43.50	-6.04	-13.90	3	Horizontal	142	1.50	"Worst"	51.36	16.18	1.92	32.00
PK	165.8M	35.57	43.50	-7.93	-14.33	3	Horizontal	120	1.25	-	49.90	15.63	2.03	31.99
PK	364.65M	35.95	46.00	-10.05	-8.40	3	Horizontal	188	1.00	-	44.35	20.71	3.06	32.17
PK	500.45M	36.69	46.00	-9.31	-5.60	3	Horizontal	93	1.50	-	42.29	23.20	3.60	32.40

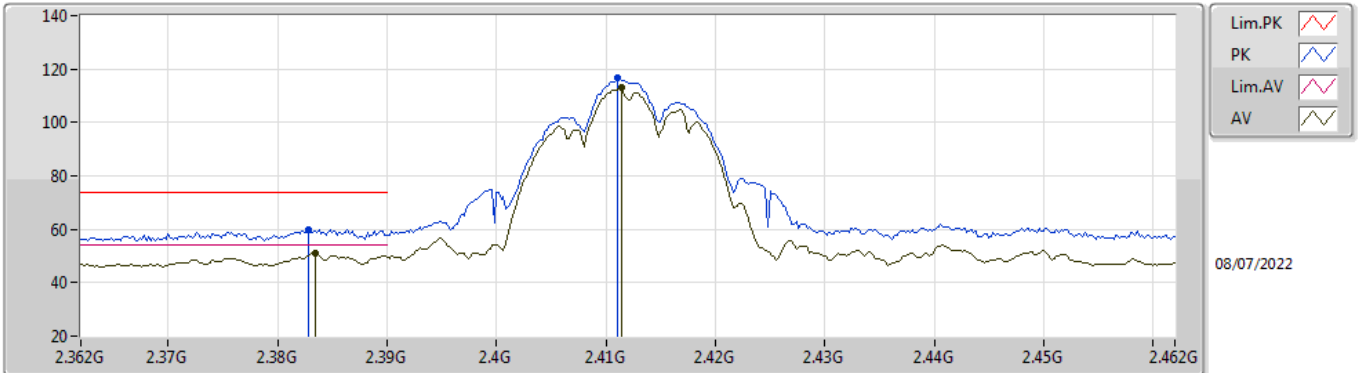


Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1.(1Mbps)_2TX	Pass	AV	2.3836G	53.76	54.00	-0.24	3	Horizontal	56	1.00	-

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

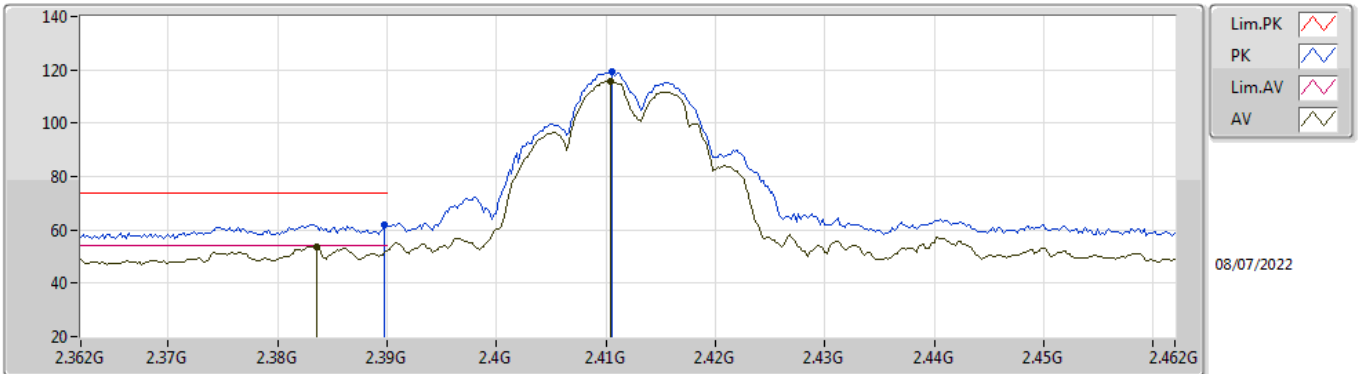


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3828G	59.81	74.00	-14.19	27.20	3	Vertical	90	1.80	-	28.23	4.38	-	
AV	2.3834G	50.88	54.00	-3.12	18.27	3	Vertical	90	1.80	-	28.23	4.38	-	
PK	2.411G	116.58	Inf	-Inf	83.87	3	Vertical	90	1.80	-	28.30	4.41	-	
AV	2.4114G	112.98	Inf	-Inf	80.27	3	Vertical	90	1.80	-	28.30	4.41	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

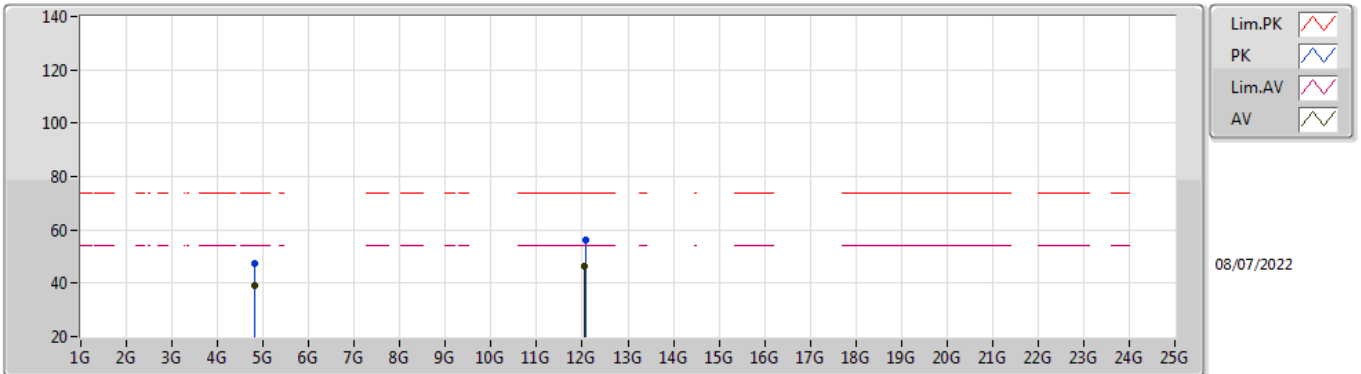


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3898G	61.99	74.00	-12.01	29.34	3	Horizontal	56	1.00	-	28.26	4.39	-	
AV	2.3836G	53.76	54.00	-0.24	21.15	3	Horizontal	56	1.00	-	28.23	4.38	-	
PK	2.4106G	119.08	Inf	-Inf	86.37	3	Horizontal	56	1.00	-	28.30	4.41	-	
AV	2.4104G	115.88	Inf	-Inf	83.17	3	Horizontal	56	1.00	-	28.30	4.41	-	

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

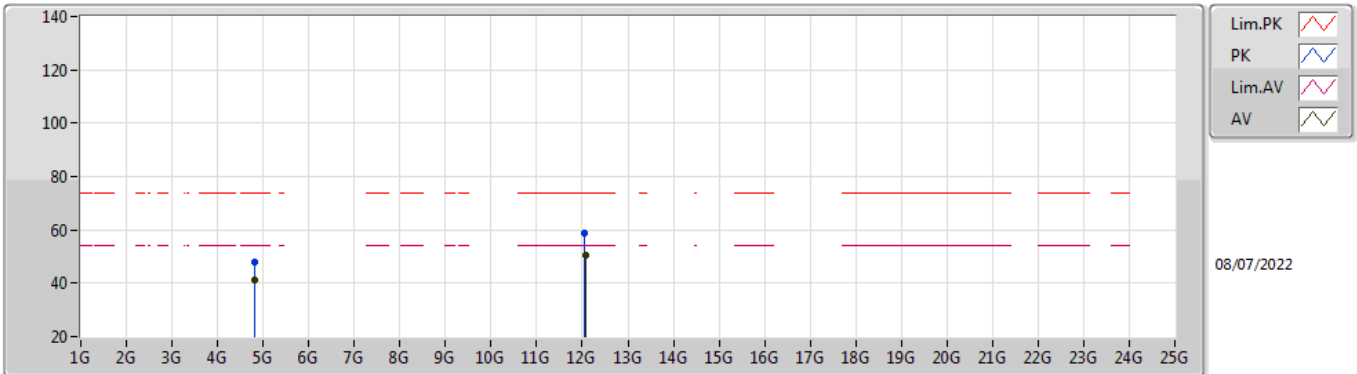


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82412G	47.29	74.00	-26.71	41.75	3	Vertical	339	2.02	-	33.34	7.10	34.90
AV	4.824G	39.16	54.00	-14.84	33.62	3	Vertical	339	2.02	-	33.34	7.10	34.90
PK	12.0621G	56.07	74.00	-17.93	41.19	3	Vertical	360	2.25	-	39.08	10.85	35.05
AV	12.06138G	46.17	54.00	-7.83	31.29	3	Vertical	360	2.25	-	39.08	10.85	35.05

802.11b_Nss1,(1Mbps)_2TX

2412MHz_TX

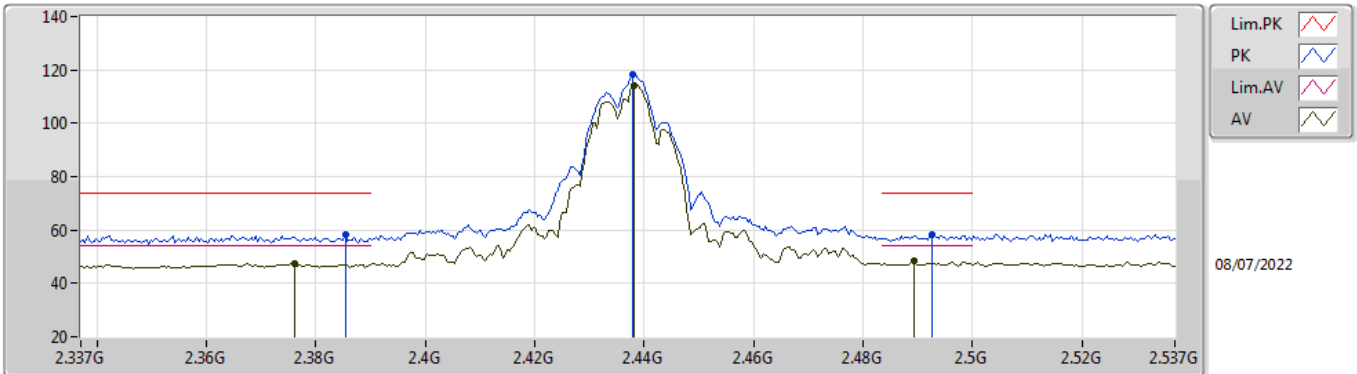


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82398G	47.72	74.00	-26.28	42.18	3	Horizontal	69	1.97	-	33.34	7.10	34.90
AV	4.82402G	41.22	54.00	-12.78	35.68	3	Horizontal	69	1.97	-	33.34	7.10	34.90
PK	12.06156G	58.85	74.00	-15.15	43.97	3	Horizontal	92	1.15	-	39.08	10.85	35.05
AV	12.0618G	50.58	54.00	-3.42	35.70	3	Horizontal	92	1.15	-	39.08	10.85	35.05

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

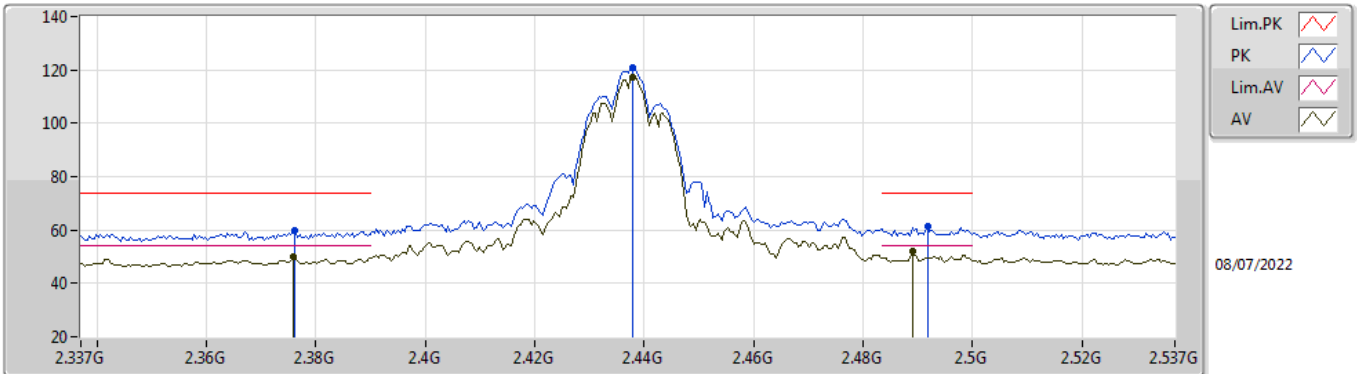


EUT_X_2TX
Setting 25
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3854G	58.43	74.00	-15.57	25.80	3	Vertical	90	2.53	-	28.24	4.39	-
AV	2.3762G	47.67	54.00	-6.33	15.09	3	Vertical	90	2.53	-	28.20	4.38	-
PK	2.4378G	118.08	Inf	-Inf	85.36	3	Vertical	90	2.53	-	28.30	4.42	-
AV	2.4382G	114.19	Inf	-Inf	81.47	3	Vertical	90	2.53	-	28.30	4.42	-
PK	2.4926G	58.07	74.00	-15.93	25.15	3	Vertical	90	2.53	-	28.47	4.45	-
AV	2.4894G	48.29	54.00	-5.71	15.39	3	Vertical	90	2.53	-	28.46	4.44	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

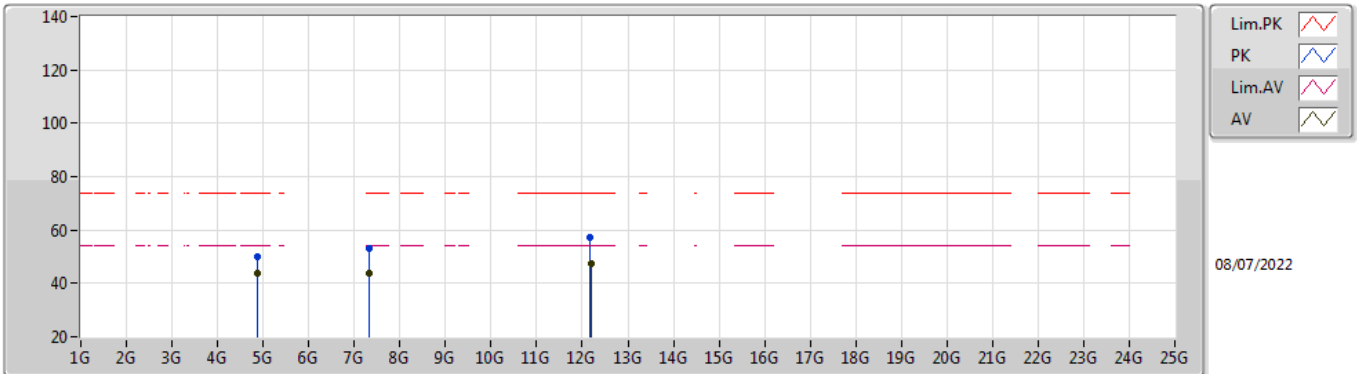


EUT_X_2TX
Setting 25
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3762G	59.91	74.00	-14.09	27.33	3	Horizontal	62	1.33	-	28.20	4.38	-
AV	2.3758G	49.88	54.00	-4.12	17.30	3	Horizontal	62	1.33	-	28.20	4.38	-
PK	2.4378G	120.97	Inf	-Inf	88.25	3	Horizontal	62	1.33	-	28.30	4.42	-
AV	2.4378G	117.47	Inf	-Inf	84.75	3	Horizontal	62	1.33	-	28.30	4.42	-
PK	2.4918G	61.47	74.00	-12.53	28.55	3	Horizontal	62	1.33	-	28.47	4.45	-
AV	2.489G	51.86	54.00	-2.14	18.96	3	Horizontal	62	1.33	-	28.46	4.44	-

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

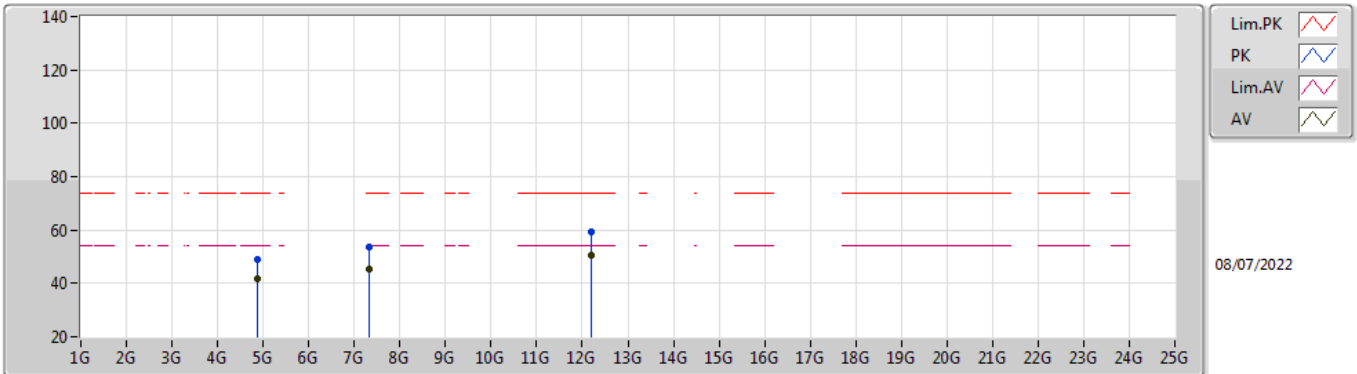


EUT_X_2TX
Setting 25
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87396G	49.99	74.00	-24.01	44.19	3	Vertical	334	1.54	-	33.60	7.10	34.90
AV	4.87396G	43.74	54.00	-10.26	37.94	3	Vertical	334	1.54	-	33.60	7.10	34.90
PK	7.31196G	53.22	74.00	-20.78	43.02	3	Vertical	322	1.80	-	36.92	8.42	35.14
AV	7.3128G	43.97	54.00	-10.03	33.75	3	Vertical	322	1.80	-	36.93	8.43	35.14
PK	12.18254G	57.34	74.00	-16.66	42.49	3	Vertical	-0	2.22	-	38.83	10.95	34.93
AV	12.1832G	47.41	54.00	-6.59	32.56	3	Vertical	-0	2.22	-	38.83	10.95	34.93

802.11b_Nss1,(1Mbps)_2TX

2437MHz_TX

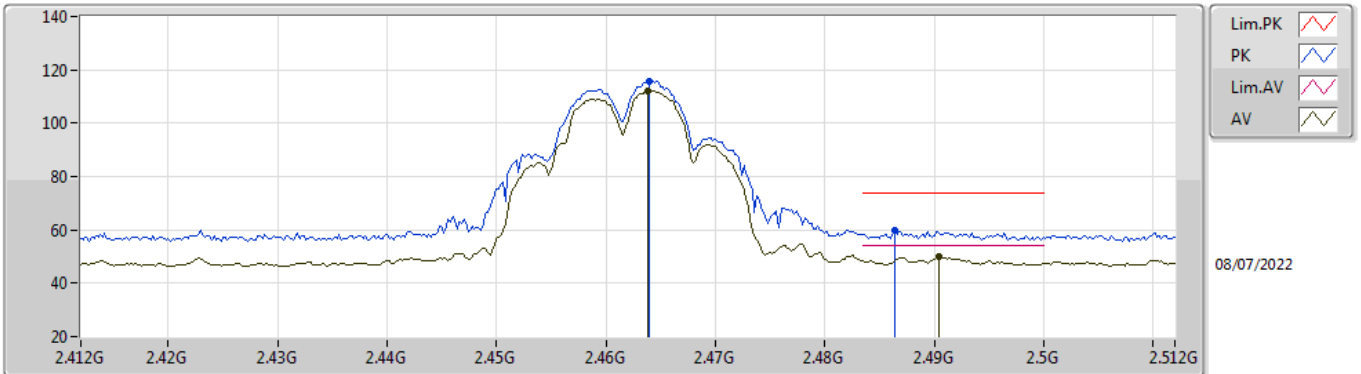


EUT_X_2TX
Setting 25
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.874G	49.07	74.00	-24.93	43.27	3	Horizontal	345	1.00	-	33.60	7.10	34.90
AV	4.874G	41.60	54.00	-12.40	35.80	3	Horizontal	345	1.00	-	33.60	7.10	34.90
PK	7.31298G	53.87	74.00	-20.13	43.65	3	Horizontal	325	1.80	-	36.93	8.43	35.14
AV	7.3128G	45.46	54.00	-8.54	35.24	3	Horizontal	325	1.80	-	36.93	8.43	35.14
PK	12.18296G	59.26	74.00	-14.74	44.41	3	Horizontal	90	1.06	-	38.83	10.95	34.93
AV	12.18332G	50.64	54.00	-3.36	35.79	3	Horizontal	90	1.06	-	38.83	10.95	34.93

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

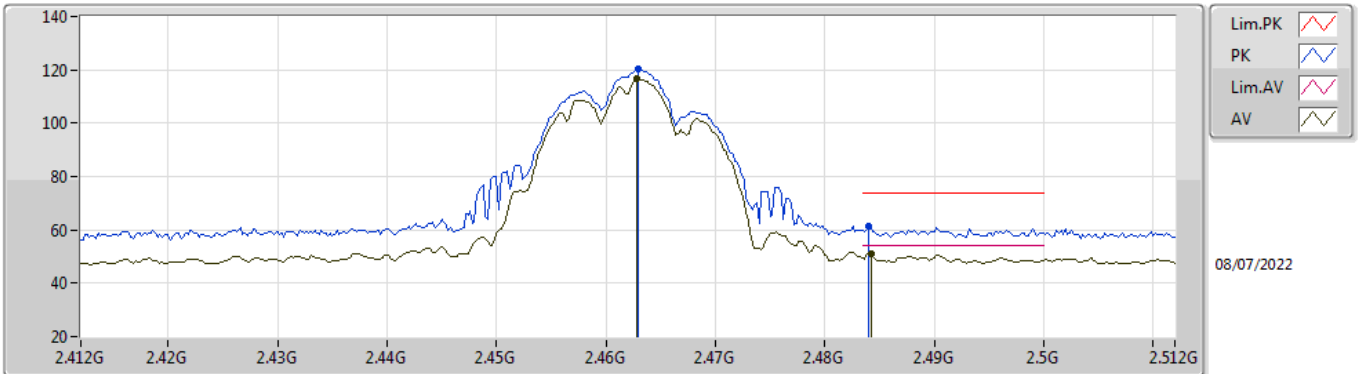


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.464G	115.57	Inf	-Inf	82.78	3	Vertical	76	1.80	-	28.36	4.43	-	
AV	2.4638G	112.28	Inf	-Inf	79.49	3	Vertical	76	1.80	-	28.36	4.43	-	
PK	2.4864G	60.01	74.00	-13.99	27.12	3	Vertical	76	1.80	-	28.45	4.44	-	
AV	2.4904G	49.87	54.00	-4.13	16.96	3	Vertical	76	1.80	-	28.46	4.45	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

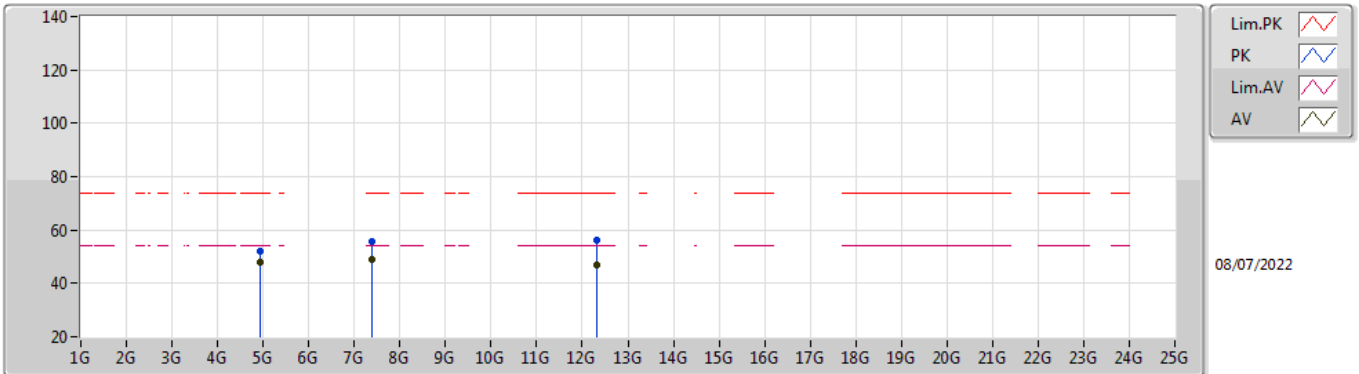


EUT X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.463G	120.38	Inf	-Inf	87.60	3	Horizontal	55	1.04	-	28.35	4.43	-	
AV	2.4628G	116.49	Inf	-Inf	83.71	3	Horizontal	55	1.04	-	28.35	4.43	-	
PK	2.484G	61.28	74.00	-12.72	28.40	3	Horizontal	55	1.04	-	28.44	4.44	-	
AV	2.4842G	51.20	54.00	-2.80	18.32	3	Horizontal	55	1.04	-	28.44	4.44	-	

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

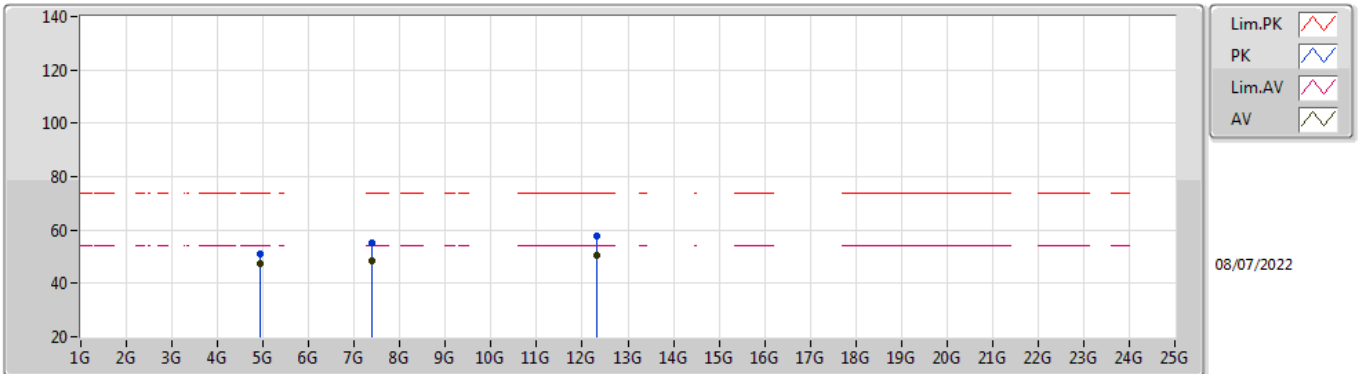


EUT_X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92394G	51.94	74.00	-22.06	45.98	3	Vertical	340	1.78	-	33.75	7.10	34.89
AV	4.92394G	47.73	54.00	-6.27	41.77	3	Vertical	340	1.78	-	33.75	7.10	34.89
PK	7.38498G	55.87	74.00	-18.13	45.48	3	Vertical	308	1.79	-	37.00	8.57	35.18
AV	7.38534G	48.92	54.00	-5.08	38.53	3	Vertical	308	1.79	-	37.00	8.57	35.18
PK	12.3115G	56.35	74.00	-17.65	41.29	3	Vertical	360	3.00	-	38.81	11.05	34.80
AV	12.31174G	46.95	54.00	-7.05	31.89	3	Vertical	360	3.00	-	38.81	11.05	34.80

802.11b_Nss1,(1Mbps)_2TX

2462MHz_TX

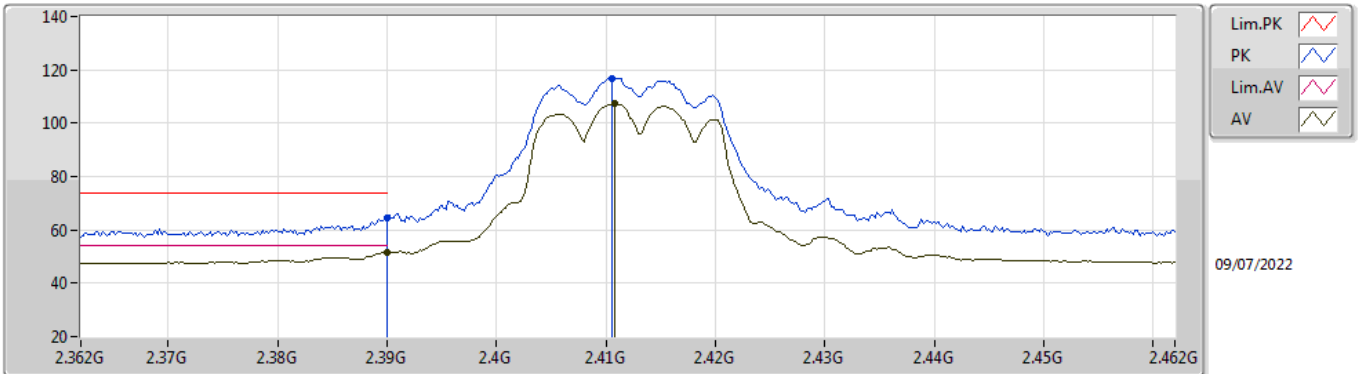


EUT_X_2TX
Setting 23.5
03-D-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.92396G	51.03	74.00	-22.97	45.07	3	Horizontal	14	2.26	-	33.75	7.10	34.89
AV	4.92396G	47.17	54.00	-6.83	41.21	3	Horizontal	14	2.26	-	33.75	7.10	34.89
PK	7.38504G	55.32	74.00	-18.68	44.93	3	Horizontal	328	1.79	-	37.00	8.57	35.18
AV	7.38492G	48.27	54.00	-5.73	37.88	3	Horizontal	328	1.79	-	37.00	8.57	35.18
PK	12.31108G	57.62	74.00	-16.38	42.57	3	Horizontal	0	2.20	-	38.81	11.05	34.81
AV	12.31174G	50.64	54.00	-3.36	35.58	3	Horizontal	0	2.20	-	38.81	11.05	34.80

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

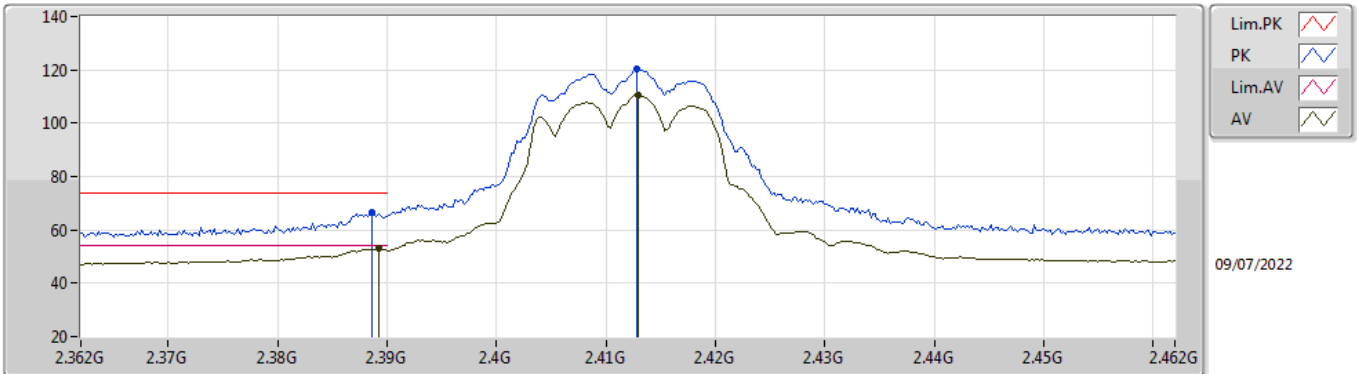


EUT_X_2TX
Setting 22
02-B-E-2

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA	
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)	
PK	2.39G	64.58	74.00	-9.42	33.41	3	Vertical	80	2.17	-	28.38	2.79	-	
AV	2.39G	51.59	54.00	-2.41	20.42	3	Vertical	80	2.17	-	28.38	2.79	-	
PK	2.4106G	116.98	Inf	-Inf	85.77	3	Vertical	80	2.17	-	28.40	2.81	-	
AV	2.4108G	107.52	Inf	-Inf	76.31	3	Vertical	80	2.17	-	28.40	2.81	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

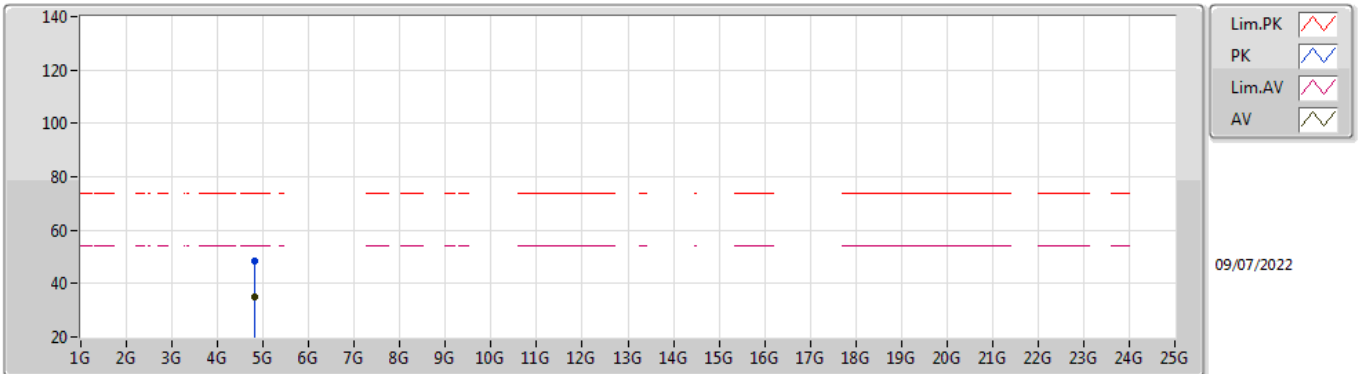


EUT_X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3886G	66.31	74.00	-7.69	35.14	3	Horizontal	60	2.79	-	28.38	2.79	-	
AV	2.3892G	52.86	54.00	-1.14	21.69	3	Horizontal	60	2.79	-	28.38	2.79	-	
PK	2.4128G	120.12	Inf	-Inf	88.91	3	Horizontal	60	2.79	-	28.40	2.81	-	
AV	2.413G	110.68	Inf	-Inf	79.47	3	Horizontal	60	2.79	-	28.40	2.81	-	

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

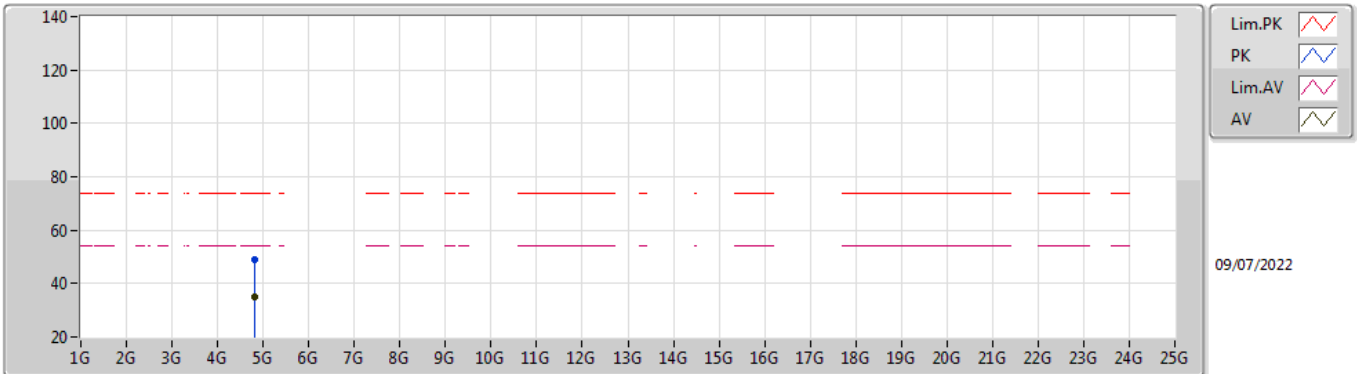


EUT X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82712G	48.43	74.00	-25.57	41.17	3	Vertical	332	1.97	-	32.96	5.10	30.80
AV	4.8222G	35.19	54.00	-18.81	27.96	3	Vertical	332	1.97	-	32.93	5.10	30.80

802.11g_Nss1,(6Mbps)_2TX

2412MHz_TX

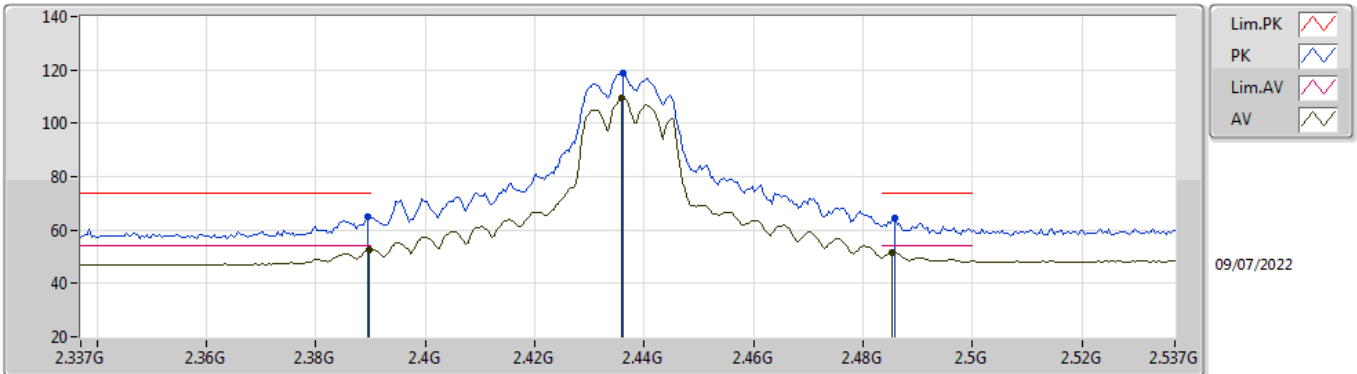


EUT X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8219G	48.99	74.00	-25.01	41.76	3	Horizontal	336	2.00	-	32.93	5.10	30.80
AV	4.82208G	35.16	54.00	-18.84	27.93	3	Horizontal	336	2.00	-	32.93	5.10	30.80

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

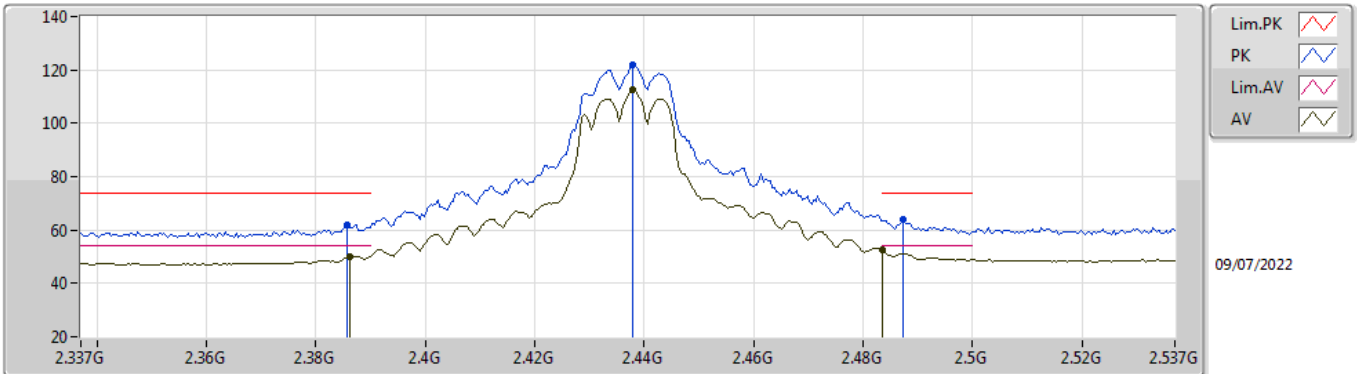


EUT_X_2TX
Setting 24
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3894G	64.76	74.00	-9.24	33.59	3	Vertical	80	2.61	-	28.38	2.79	-
AV	2.3898G	52.81	54.00	-1.19	21.64	3	Vertical	80	2.61	-	28.38	2.79	-
PK	2.4362G	118.77	Inf	-Inf	87.53	3	Vertical	80	2.61	-	28.40	2.84	-
AV	2.4358G	109.48	Inf	-Inf	78.24	3	Vertical	80	2.61	-	28.40	2.84	-
PK	2.4858G	64.39	74.00	-9.61	32.96	3	Vertical	80	2.61	-	28.54	2.89	-
AV	2.4854G	51.47	54.00	-2.53	20.04	3	Vertical	80	2.61	-	28.54	2.89	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

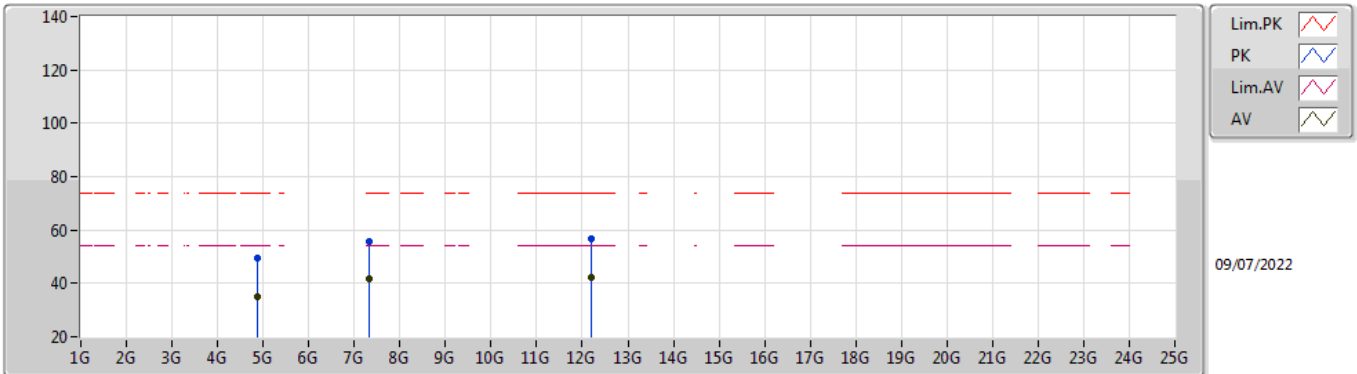


EUT_X_2TX
Setting 24
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	61.86	74.00	-12.14	30.70	3	Horizontal	60	2.71	-	28.37	2.79	-
AV	2.3862G	50.25	54.00	-3.75	19.09	3	Horizontal	60	2.71	-	28.37	2.79	-
PK	2.4378G	121.73	Inf	-Inf	90.49	3	Horizontal	60	2.71	-	28.40	2.84	-
AV	2.4378G	112.34	Inf	-Inf	81.10	3	Horizontal	60	2.71	-	28.40	2.84	-
PK	2.4874G	63.82	74.00	-10.18	32.38	3	Horizontal	60	2.71	-	28.55	2.89	-
AV	2.4835G	52.82	54.00	-1.18	21.41	3	Horizontal	60	2.71	-	28.53	2.88	-

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

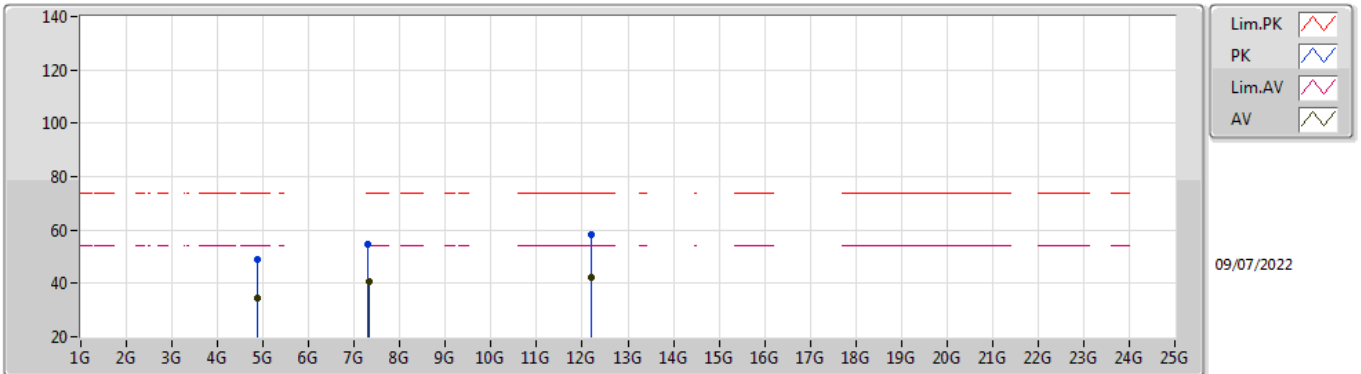


EUT_X_2TX
Setting 24
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87106G	49.62	74.00	-24.38	42.16	3	Vertical	337	1.95	-	33.14	5.10	30.78
AV	4.871G	34.87	54.00	-19.13	27.41	3	Vertical	337	1.95	-	33.14	5.10	30.78
PK	7.3134G	55.75	74.00	-18.25	45.08	3	Vertical	306	2.10	-	36.43	6.16	31.92
AV	7.31436G	41.72	54.00	-12.28	31.05	3	Vertical	306	2.10	-	36.43	6.16	31.92
PK	12.18602G	56.89	74.00	-17.11	42.08	3	Vertical	360	2.21	-	38.91	8.19	32.29
AV	12.18662G	42.38	54.00	-11.62	27.57	3	Vertical	360	2.21	-	38.91	8.19	32.29

802.11g_Nss1,(6Mbps)_2TX

2437MHz_TX

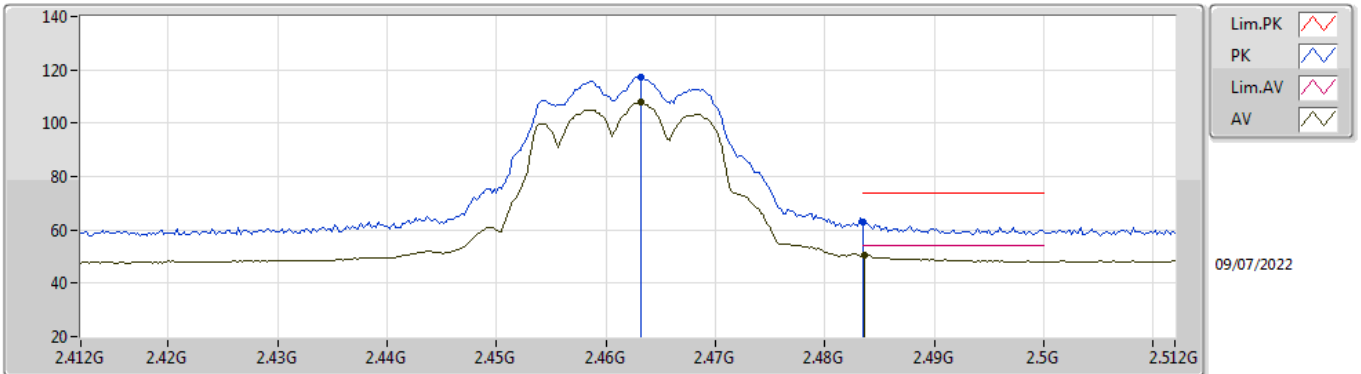


EUT_X_2TX
Setting 24
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.8719G	49.06	74.00	-24.94	41.60	3	Horizontal	338	2.00	-	33.14	5.10	30.78
AV	4.8716G	34.63	54.00	-19.37	27.17	3	Horizontal	338	2.00	-	33.14	5.10	30.78
PK	7.30986G	54.74	74.00	-19.26	44.09	3	Horizontal	329	1.74	-	36.42	6.15	31.92
AV	7.31436G	40.65	54.00	-13.35	29.98	3	Horizontal	329	1.74	-	36.43	6.16	31.92
PK	12.1865G	58.21	74.00	-15.79	43.40	3	Horizontal	360	2.20	-	38.91	8.19	32.29
AV	12.18722G	42.36	54.00	-11.64	27.55	3	Horizontal	360	2.20	-	38.91	8.19	32.29

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

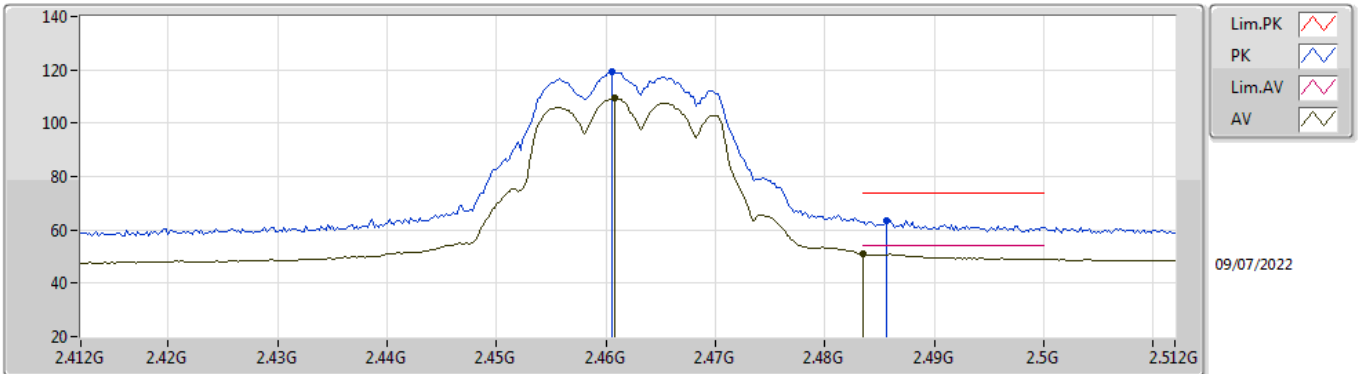


EUT_X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4632G	117.26	Inf	-Inf	85.95	3	Vertical	82	2.32	-	28.45	2.86	-	
AV	2.4632G	107.77	Inf	-Inf	76.46	3	Vertical	82	2.32	-	28.45	2.86	-	
PK	2.4835G	63.13	74.00	-10.87	31.72	3	Vertical	82	2.32	-	28.53	2.88	-	
AV	2.4836G	50.43	54.00	-3.57	19.02	3	Vertical	82	2.32	-	28.53	2.88	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

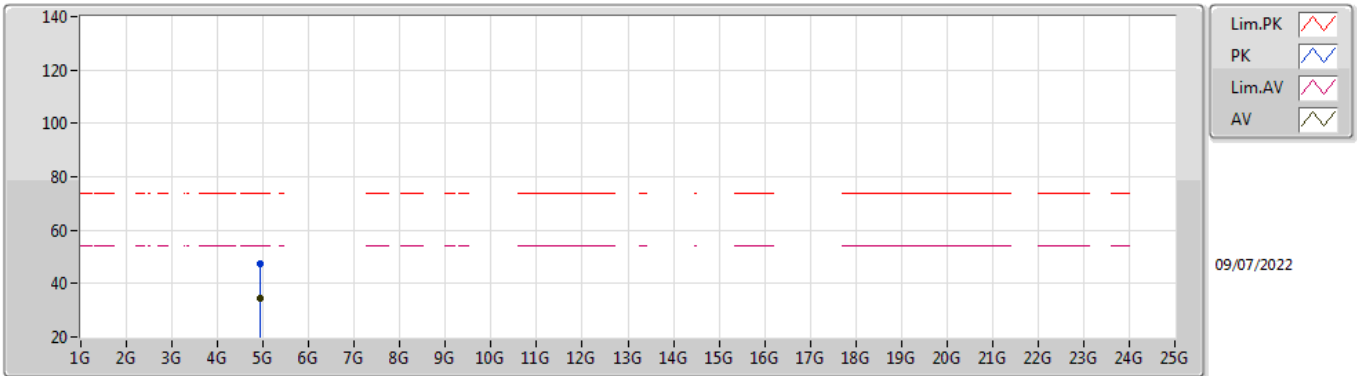


EUT X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.4606G	119.11	Inf	-Inf	87.81	3	Horizontal	66	2.97	-	28.44	2.86	-	
AV	2.4608G	109.46	Inf	-Inf	78.16	3	Horizontal	66	2.97	-	28.44	2.86	-	
PK	2.4856G	63.51	74.00	-10.49	32.08	3	Horizontal	66	2.97	-	28.54	2.89	-	
AV	2.4835G	51.06	54.00	-2.94	19.65	3	Horizontal	66	2.97	-	28.53	2.88	-	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

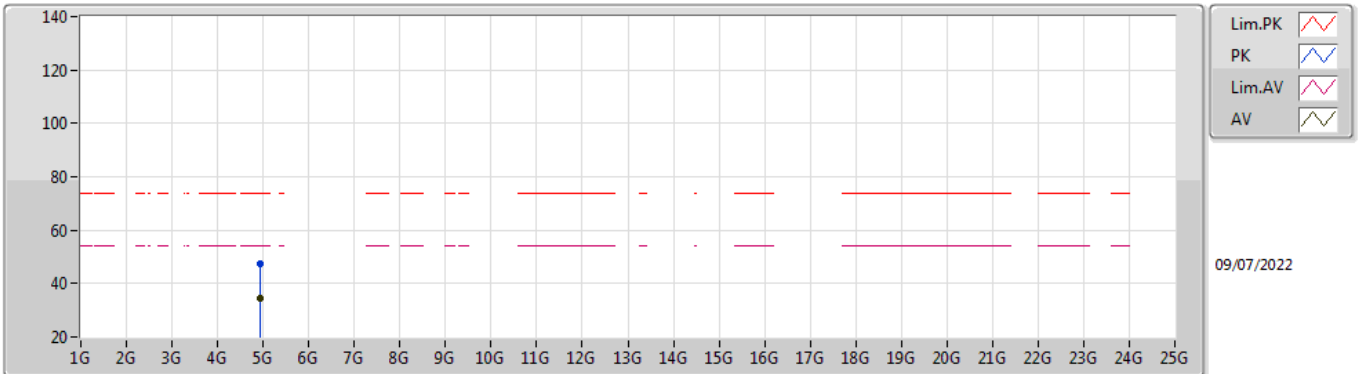


EUT X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.92154G	47.19	74.00	-26.81	39.61	3	Vertical	341	1.76	-	33.24	5.10	30.76	
AV	4.9222G	34.44	54.00	-19.56	26.86	3	Vertical	341	1.76	-	33.24	5.10	30.76	

802.11g_Nss1,(6Mbps)_2TX

2462MHz_TX

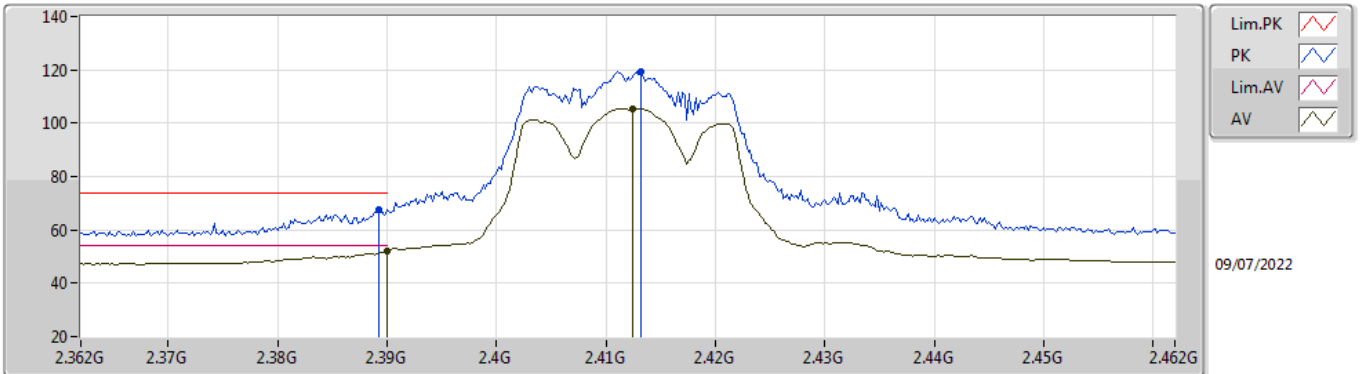


EUT X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9267G	47.57	74.00	-26.43	39.98	3	Horizontal	343	1.80	-	33.25	5.10	30.76	
AV	4.9219G	34.64	54.00	-19.36	27.06	3	Horizontal	343	1.80	-	33.24	5.10	30.76	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

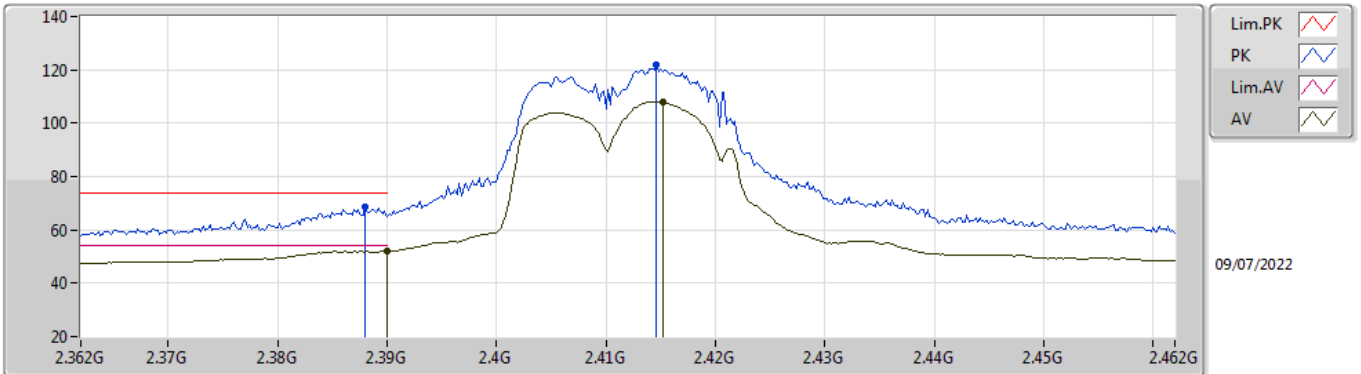


EUT_X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.3892G	67.50	74.00	-6.50	36.33	3	Vertical	87	1.71	-	28.38	2.79	-	
AV	2.39G	52.11	54.00	-1.89	20.94	3	Vertical	87	1.71	-	28.38	2.79	-	
PK	2.4132G	119.28	Inf	-Inf	88.07	3	Vertical	87	1.71	-	28.40	2.81	-	
AV	2.4124G	105.59	Inf	-Inf	74.38	3	Vertical	87	1.71	-	28.40	2.81	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

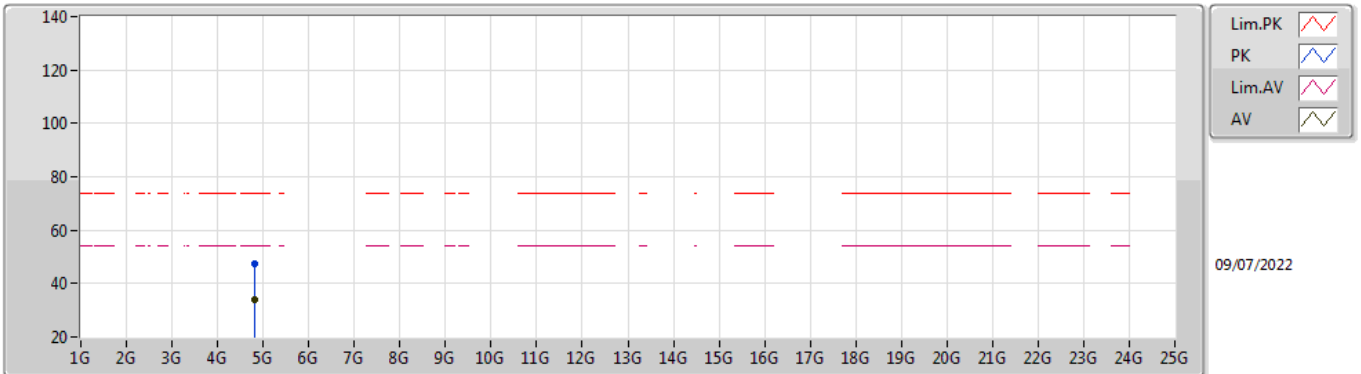


EUT_X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	2.388G	68.38	74.00	-5.62	37.21	3	Horizontal	305	1.11	-	28.38	2.79	-	
AV	2.39G	52.09	54.00	-1.91	20.92	3	Horizontal	305	1.11	-	28.38	2.79	-	
PK	2.4146G	121.65	Inf	-Inf	90.44	3	Horizontal	305	1.11	-	28.40	2.81	-	
AV	2.4152G	108.03	Inf	-Inf	76.81	3	Horizontal	305	1.11	-	28.40	2.82	-	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

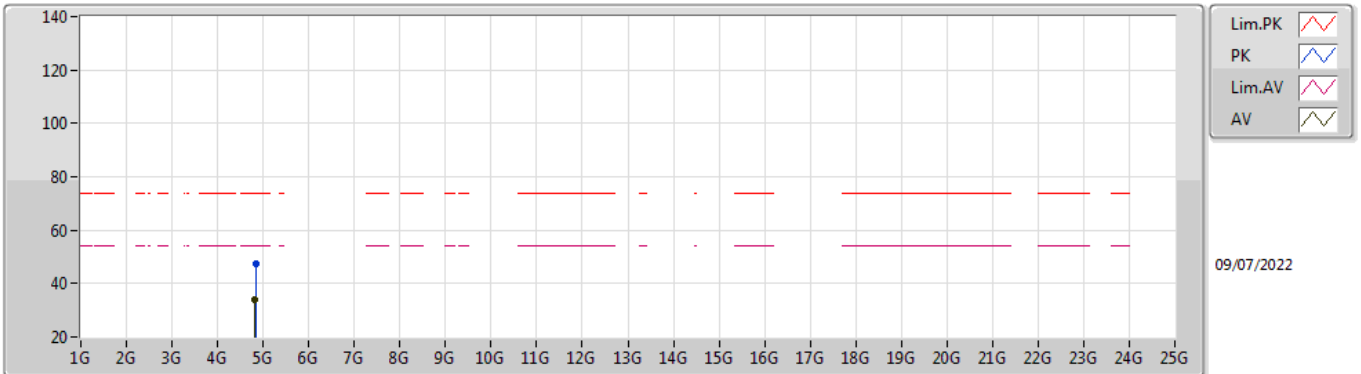


EUT X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.8228G	47.46	74.00	-26.54	40.22	3	Vertical	332	2.21	-	32.94	5.10	30.80	
AV	4.81992G	33.81	54.00	-20.19	26.60	3	Vertical	332	2.21	-	32.92	5.10	30.81	

802.11ax HEW20_Nss1,(MCS0)_2TX

2412MHz_TX

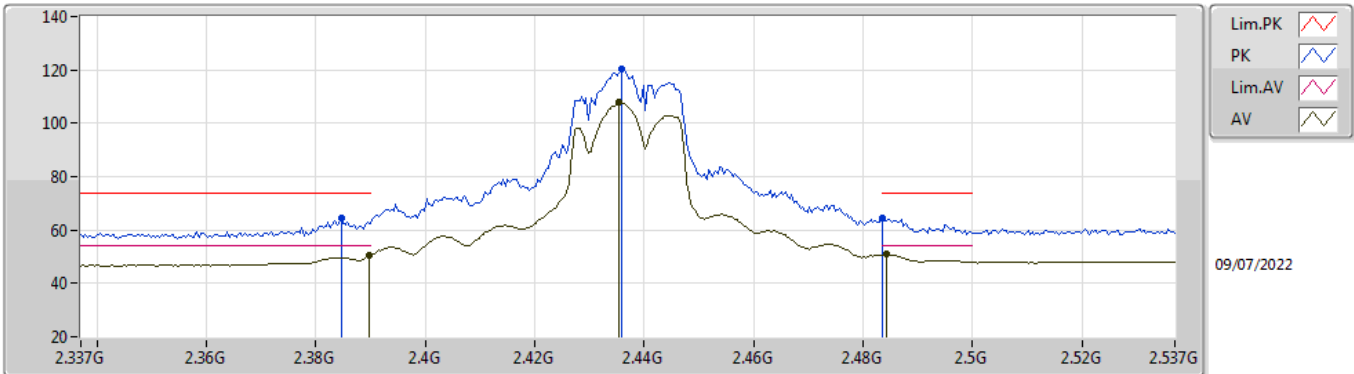


EUT X_2TX
Setting 21.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.82964G	47.20	74.00	-26.80	39.92	3	Horizontal	335	1.96	-	32.98	5.10	30.80
AV	4.82028G	33.94	54.00	-20.06	26.73	3	Horizontal	335	1.96	-	32.92	5.10	30.81

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

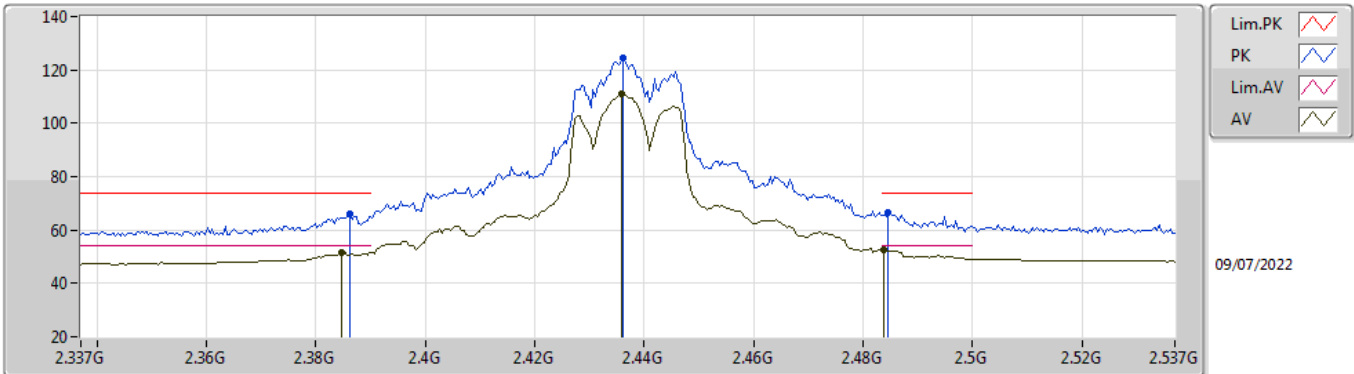


EUT_X_2TX
Setting 23.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3846G	64.35	74.00	-9.65	33.19	3	Vertical	95	2.62	-	28.37	2.79	-
AV	2.3898G	50.40	54.00	-3.60	19.23	3	Vertical	95	2.62	-	28.38	2.79	-
PK	2.4358G	120.41	Inf	-Inf	89.17	3	Vertical	95	2.62	-	28.40	2.84	-
AV	2.4354G	107.79	Inf	-Inf	76.55	3	Vertical	95	2.62	-	28.40	2.84	-
PK	2.4835G	64.33	74.00	-9.67	32.92	3	Vertical	95	2.62	-	28.53	2.88	-
AV	2.4842G	50.93	54.00	-3.07	19.51	3	Vertical	95	2.62	-	28.54	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

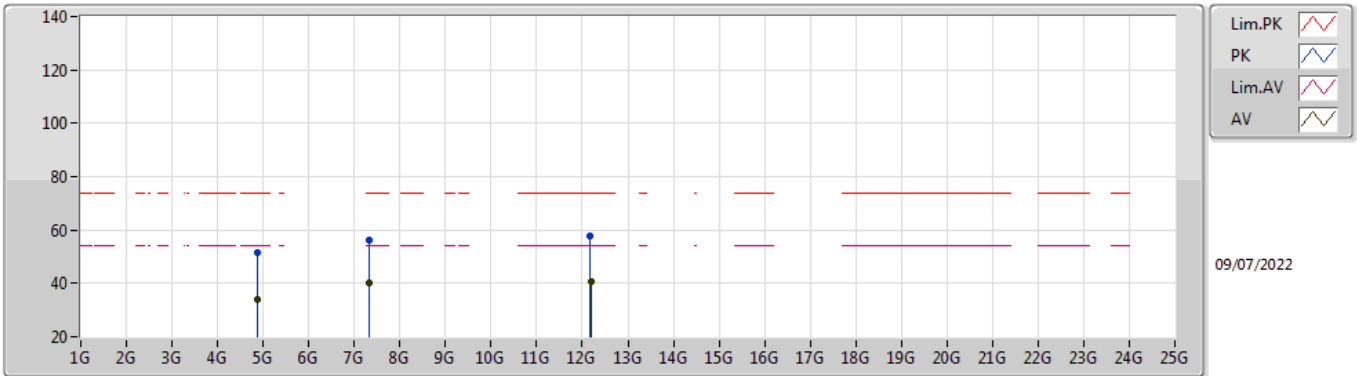


EUT_X_2TX
Setting 23.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3862G	66.09	74.00	-7.91	34.93	3	Horizontal	64	1.06	-	28.37	2.79	-
AV	2.3846G	51.70	54.00	-2.30	20.54	3	Horizontal	64	1.06	-	28.37	2.79	-
PK	2.4362G	124.42	Inf	-Inf	93.18	3	Horizontal	64	1.06	-	28.40	2.84	-
AV	2.4358G	110.97	Inf	-Inf	79.73	3	Horizontal	64	1.06	-	28.40	2.84	-
PK	2.4846G	66.63	74.00	-7.37	35.21	3	Horizontal	64	1.06	-	28.54	2.88	-
AV	2.4838G	52.40	54.00	-1.60	20.98	3	Horizontal	64	1.06	-	28.54	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

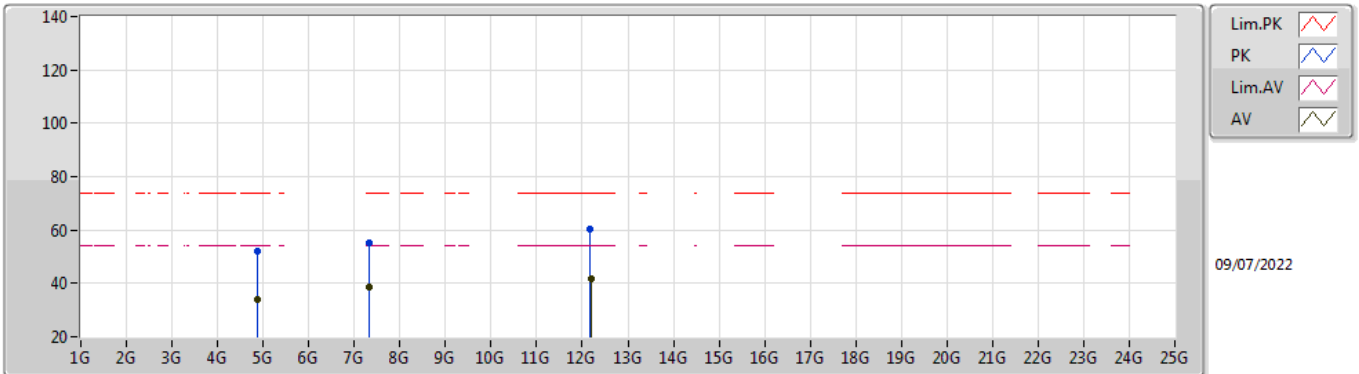


EUT_X_2TX
Setting 23.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86884G	51.53	74.00	-22.47	44.08	3	Vertical	344	1.58	-	33.14	5.10	30.79
AV	4.87082G	34.04	54.00	-19.96	26.58	3	Vertical	344	1.58	-	33.14	5.10	30.78
PK	7.31346G	56.10	74.00	-17.90	45.43	3	Vertical	306	2.10	-	36.43	6.16	31.92
AV	7.31274G	39.92	54.00	-14.08	29.25	3	Vertical	306	2.10	-	36.43	6.16	31.92
PK	12.18212G	57.87	74.00	-16.13	43.05	3	Vertical	360	2.07	-	38.92	8.19	32.29
AV	12.18308G	40.81	54.00	-13.19	25.99	3	Vertical	360	2.07	-	38.92	8.19	32.29

802.11ax HEW20_Nss1,(MCS0)_2TX

2437MHz_TX

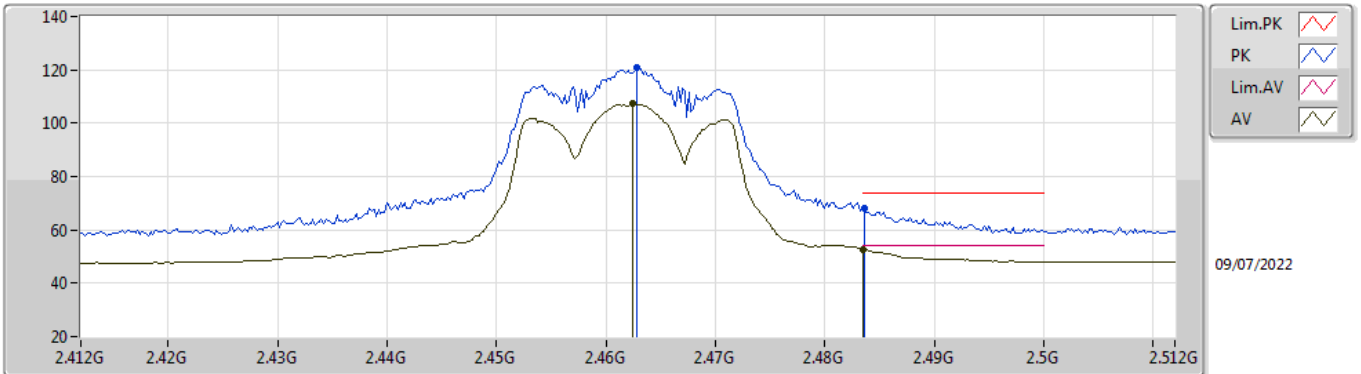


EUT_X_2TX
Setting 23.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86926G	52.24	74.00	-21.76	44.78	3	Horizontal	338	2.02	-	33.14	5.10	30.78
AV	4.87082G	34.21	54.00	-19.79	26.75	3	Horizontal	338	2.02	-	33.14	5.10	30.78
PK	7.31454G	55.00	74.00	-19.00	44.33	3	Horizontal	74	2.04	-	36.43	6.16	31.92
AV	7.3125G	38.58	54.00	-15.42	27.92	3	Horizontal	74	2.04	-	36.42	6.16	31.92
PK	12.17762G	60.49	74.00	-13.51	45.68	3	Horizontal	81	1.92	-	38.92	8.19	32.30
AV	12.18854G	41.84	54.00	-12.16	27.03	3	Horizontal	81	1.92	-	38.91	8.19	32.29

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

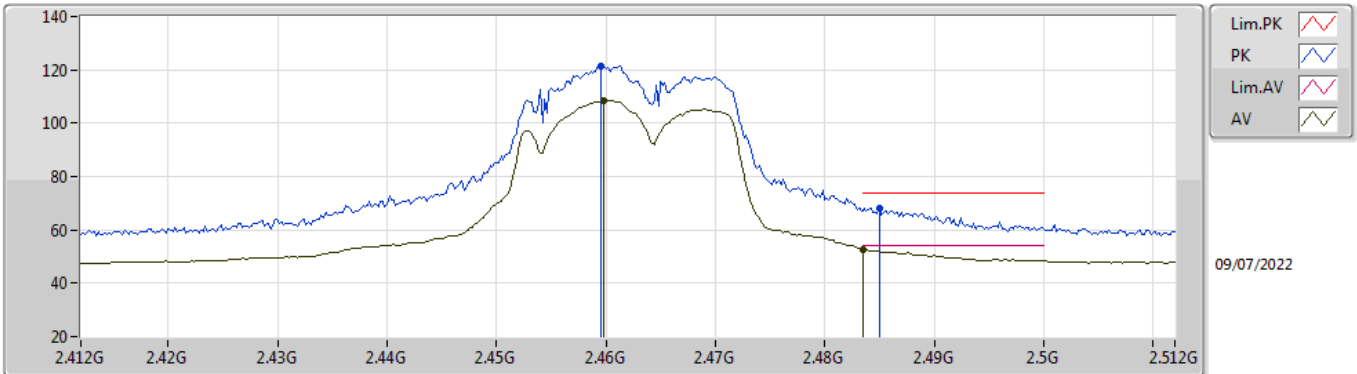


EUT_X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4628G	120.81	Inf	-Inf	89.50	3	Vertical	79	1.63	-	28.45	2.86	-
AV	2.4624G	107.17	Inf	-Inf	75.86	3	Vertical	79	1.63	-	28.45	2.86	-
PK	2.4836G	68.00	74.00	-6.00	36.59	3	Vertical	79	1.63	-	28.53	2.88	-
AV	2.4835G	52.66	54.00	-1.34	21.25	3	Vertical	79	1.63	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

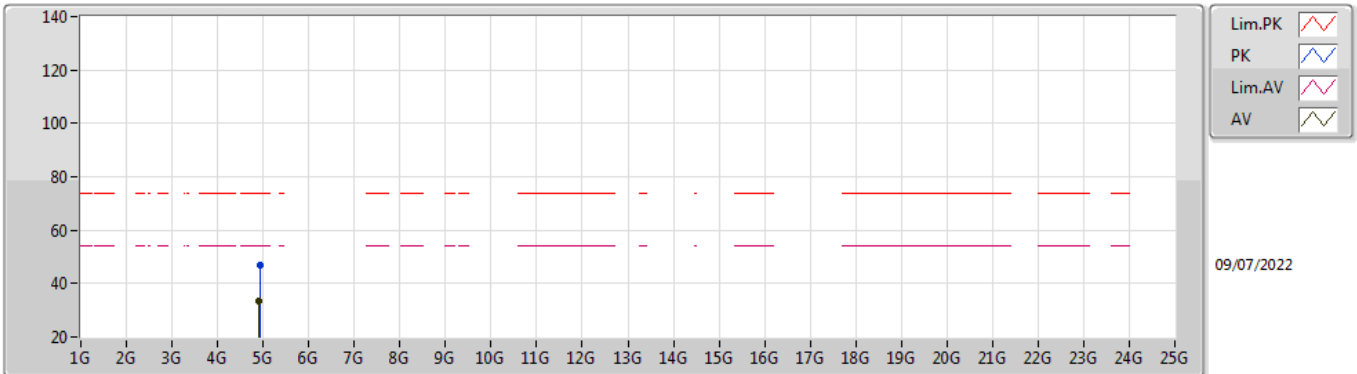


EUT_X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.4596G	121.33	Inf	-Inf	90.03	3	Horizontal	63	3.00	-	28.44	2.86	-
AV	2.4598G	108.35	Inf	-Inf	77.05	3	Horizontal	63	3.00	-	28.44	2.86	-
PK	2.485G	68.33	74.00	-5.67	36.90	3	Horizontal	63	3.00	-	28.54	2.89	-
AV	2.4835G	52.81	54.00	-1.19	21.40	3	Horizontal	63	3.00	-	28.53	2.88	-

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

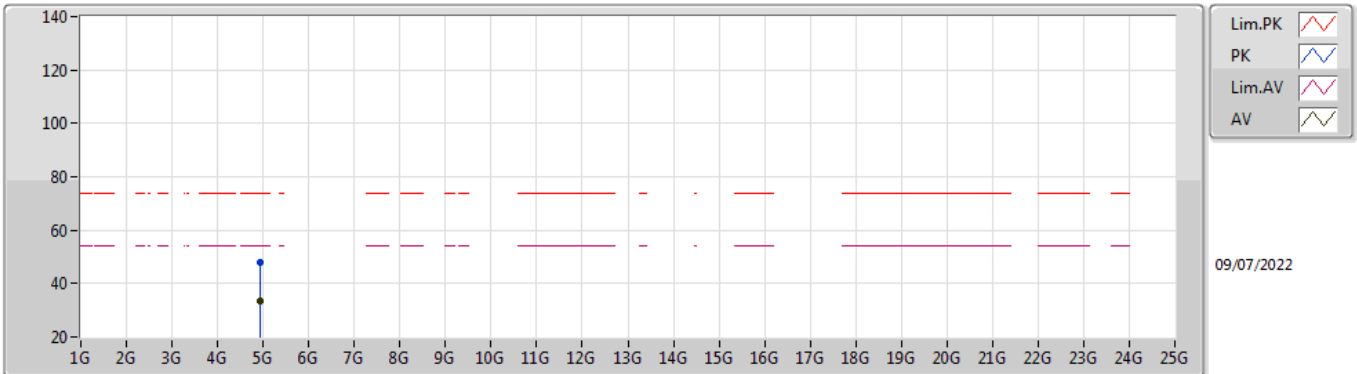


EUT X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.91968G	47.01	74.00	-26.99	39.43	3	Vertical	336	1.43	-	33.24	5.10	30.76
AV	4.91902G	33.57	54.00	-20.43	25.99	3	Vertical	336	1.43	-	33.24	5.10	30.76

802.11ax HEW20_Nss1,(MCS0)_2TX

2462MHz_TX

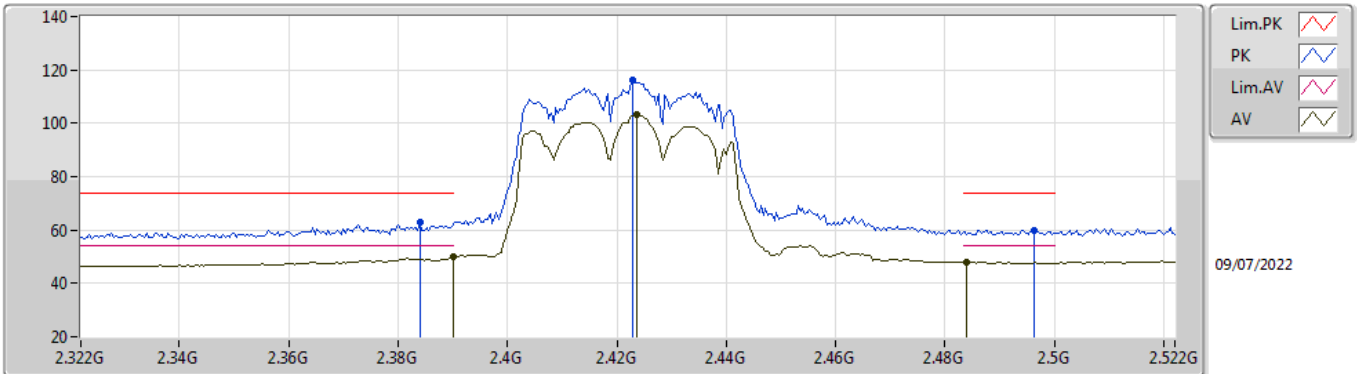


EUT X_2TX
Setting 22
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.921G	47.77	74.00	-26.23	40.19	3	Horizontal	340	1.80	-	33.24	5.10	30.76	
AV	4.92094G	33.69	54.00	-20.31	26.11	3	Horizontal	340	1.80	-	33.24	5.10	30.76	

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

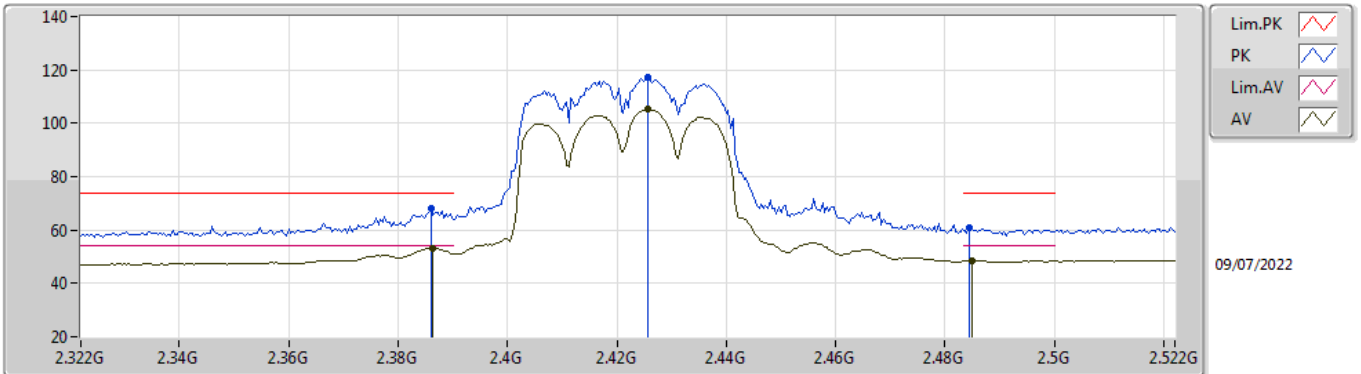


EUT_X_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.384G	63.16	74.00	-10.84	32.00	3	Vertical	78	2.11	-	28.37	2.79	-
AV	2.39G	49.80	54.00	-4.20	18.63	3	Vertical	78	2.11	-	28.38	2.79	-
PK	2.4228G	116.45	Inf	-Inf	85.23	3	Vertical	78	2.11	-	28.40	2.82	-
AV	2.4236G	103.04	Inf	-Inf	71.82	3	Vertical	78	2.11	-	28.40	2.82	-
PK	2.4964G	59.80	74.00	-14.20	28.31	3	Vertical	78	2.11	-	28.59	2.90	-
AV	2.484G	47.82	54.00	-6.18	16.40	3	Vertical	78	2.11	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

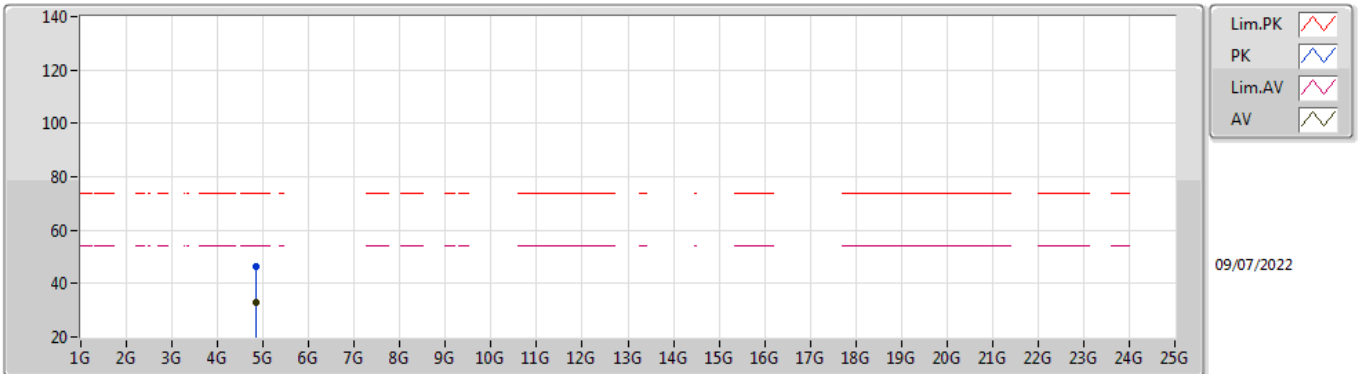


EUT_X_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.386G	67.98	74.00	-6.02	36.82	3	Horizontal	62	1.30	-	28.37	2.79	-
AV	2.3864G	53.23	54.00	-0.77	22.07	3	Horizontal	62	1.30	-	28.37	2.79	-
PK	2.4256G	117.07	Inf	-Inf	85.84	3	Horizontal	62	1.30	-	28.40	2.83	-
AV	2.4256G	105.35	Inf	-Inf	74.12	3	Horizontal	62	1.30	-	28.40	2.83	-
PK	2.4844G	60.91	74.00	-13.09	29.49	3	Horizontal	62	1.30	-	28.54	2.88	-
AV	2.4848G	48.41	54.00	-5.59	16.99	3	Horizontal	62	1.30	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

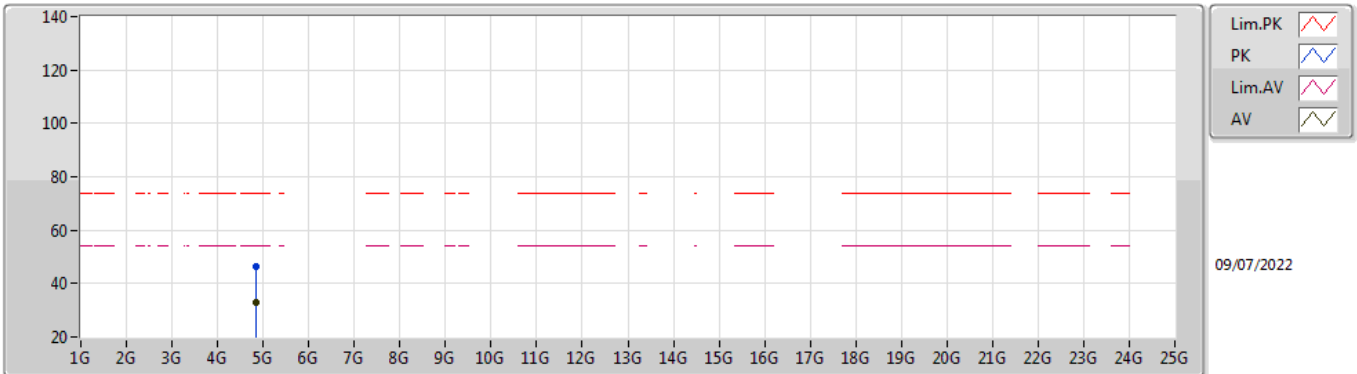


EUT X_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.83932G	46.42	74.00	-27.58	39.08	3	Vertical	336	1.98	-	33.04	5.10	30.80
AV	4.84058G	32.94	54.00	-21.06	25.60	3	Vertical	336	1.98	-	33.04	5.10	30.80

802.11ax HEW40_Nss1,(MCS0)_2TX

2422MHz_TX

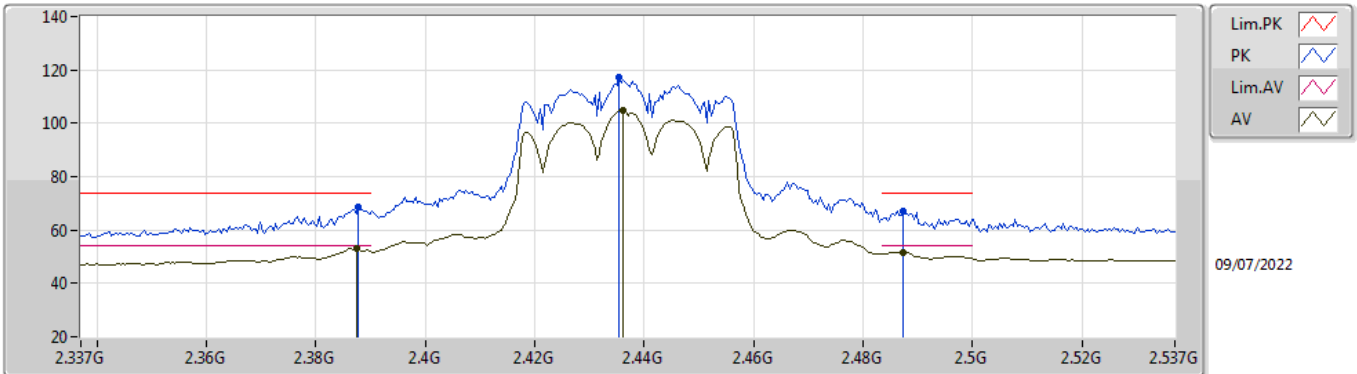


EUT X_2TX
Setting 21
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.84028G	46.48	74.00	-27.52	39.14	3	Horizontal	333	1.68	-	33.04	5.10	30.80	
AV	4.84094G	33.07	54.00	-20.93	25.72	3	Horizontal	333	1.68	-	33.05	5.10	30.80	

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

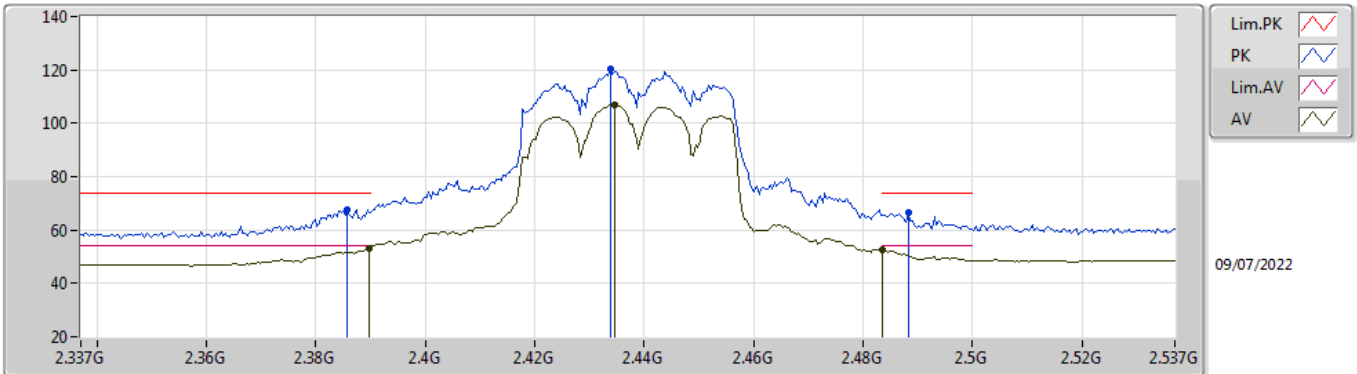


EUT_X_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3878G	68.52	74.00	-5.48	37.35	3	Vertical	76	1.34	-	28.38	2.79	-
AV	2.3874G	52.88	54.00	-1.12	21.72	3	Vertical	76	1.34	-	28.37	2.79	-
PK	2.4354G	117.04	Inf	-Inf	85.80	3	Vertical	76	1.34	-	28.40	2.84	-
AV	2.4362G	104.94	Inf	-Inf	73.70	3	Vertical	76	1.34	-	28.40	2.84	-
PK	2.4874G	67.15	74.00	-6.85	35.71	3	Vertical	76	1.34	-	28.55	2.89	-
AV	2.4874G	51.72	54.00	-2.28	20.28	3	Vertical	76	1.34	-	28.55	2.89	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

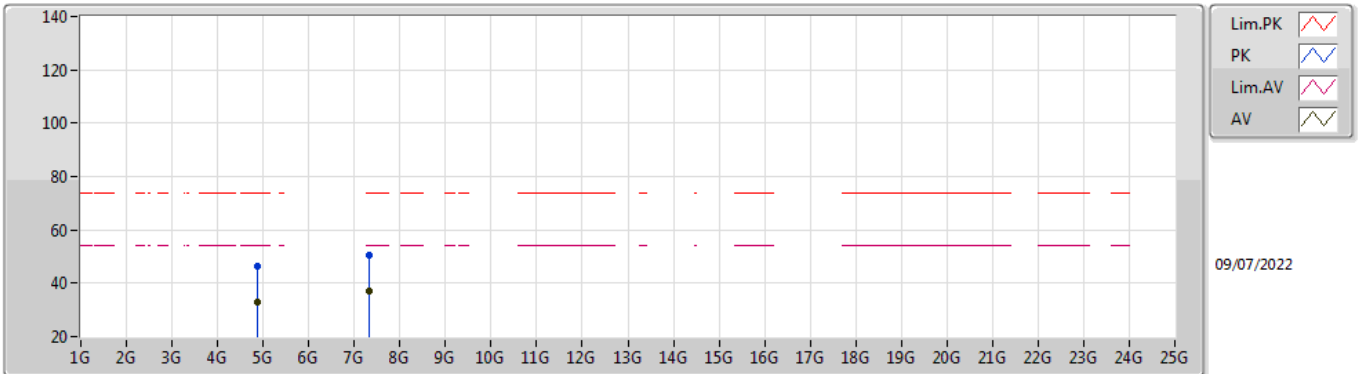


EUT_X_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3858G	67.62	74.00	-6.38	36.46	3	Horizontal	60	2.73	-	28.37	2.79	-
AV	2.3898G	53.21	54.00	-0.79	22.04	3	Horizontal	60	2.73	-	28.38	2.79	-
PK	2.4338G	120.38	Inf	-Inf	89.15	3	Horizontal	60	2.73	-	28.40	2.83	-
AV	2.4346G	106.80	Inf	-Inf	75.57	3	Horizontal	60	2.73	-	28.40	2.83	-
PK	2.4882G	66.38	74.00	-7.62	34.94	3	Horizontal	60	2.73	-	28.55	2.89	-
AV	2.4835G	52.54	54.00	-1.46	21.13	3	Horizontal	60	2.73	-	28.53	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

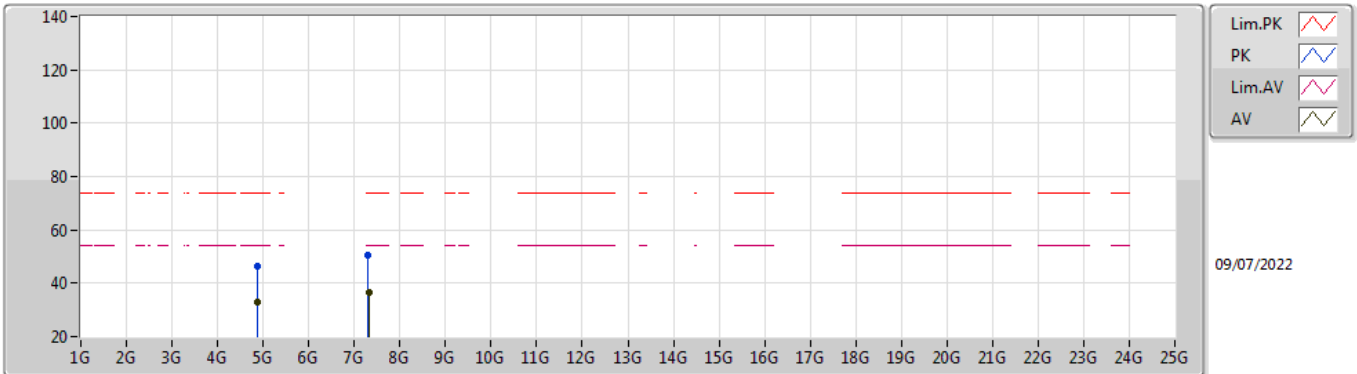


EUT X_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.87088G	46.53	74.00	-27.47	39.07	3	Vertical	337	1.60	-	33.14	5.10	30.78
AV	4.87874G	32.94	54.00	-21.06	25.46	3	Vertical	337	1.60	-	33.16	5.10	30.78
PK	7.31232G	50.45	74.00	-23.55	39.79	3	Vertical	170	1.80	-	36.42	6.16	31.92
AV	7.3227G	36.98	54.00	-17.02	26.30	3	Vertical	170	1.80	-	36.45	6.16	31.93

802.11ax HEW40_Nss1,(MCS0)_2TX

2437MHz_TX

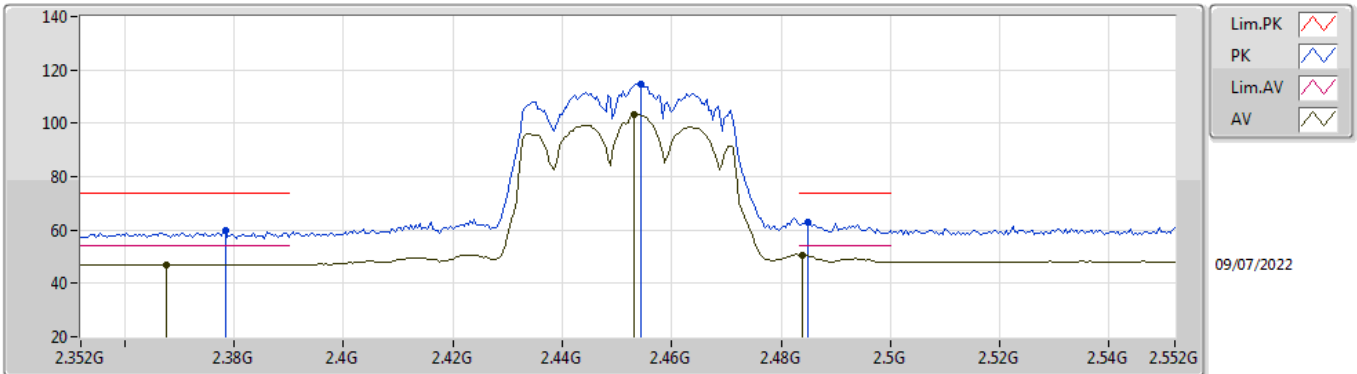


EUT_X_2TX
Setting 22.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.86932G	46.53	74.00	-27.47	39.07	3	Horizontal	338	1.88	-	33.14	5.10	30.78
AV	4.8707G	33.15	54.00	-20.85	25.69	3	Horizontal	338	1.88	-	33.14	5.10	30.78
PK	7.30266G	50.68	74.00	-23.32	40.04	3	Horizontal	61	1.80	-	36.41	6.15	31.92
AV	7.3239G	36.69	54.00	-17.31	26.01	3	Horizontal	61	1.80	-	36.45	6.16	31.93

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

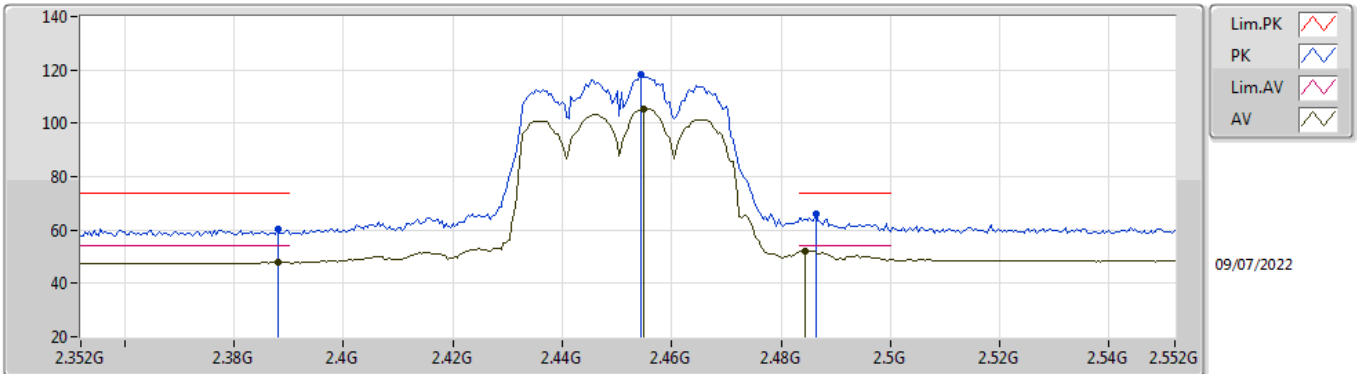


EUT_X_2TX
Setting 20.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.3784G	59.75	74.00	-14.25	28.60	3	Vertical	82	2.07	-	28.36	2.79	-
AV	2.3676G	47.06	54.00	-6.94	15.94	3	Vertical	82	2.07	-	28.34	2.78	-
PK	2.4544G	114.53	Inf	-Inf	83.26	3	Vertical	82	2.07	-	28.42	2.85	-
AV	2.4532G	103.27	Inf	-Inf	72.01	3	Vertical	82	2.07	-	28.41	2.85	-
PK	2.4848G	62.84	74.00	-11.16	31.42	3	Vertical	82	2.07	-	28.54	2.88	-
AV	2.484G	50.64	54.00	-3.36	19.22	3	Vertical	82	2.07	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

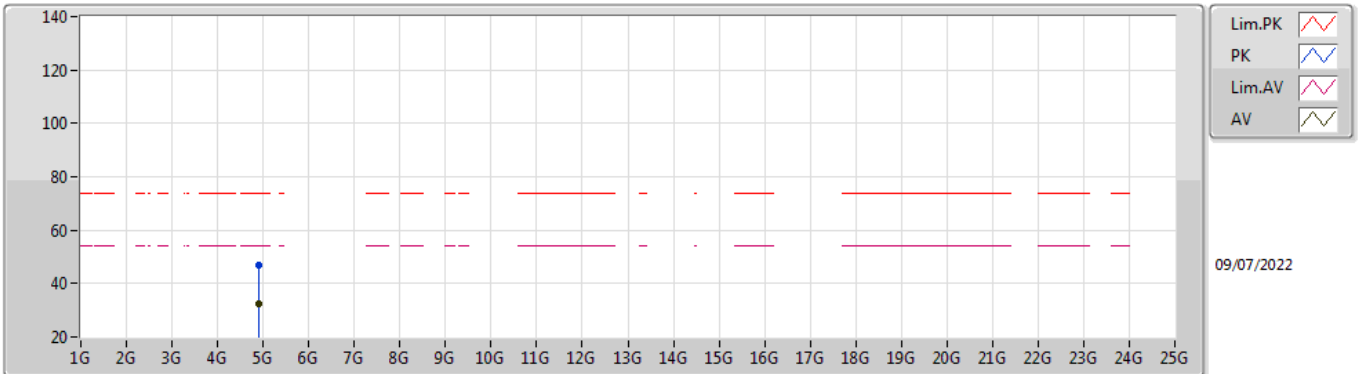


EUT_X_2TX
Setting 20.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	2.388G	60.28	74.00	-13.72	29.11	3	Horizontal	54	1.04	-	28.38	2.79	-
AV	2.388G	47.95	54.00	-6.05	16.78	3	Horizontal	54	1.04	-	28.38	2.79	-
PK	2.4544G	118.20	Inf	-Inf	86.93	3	Horizontal	54	1.04	-	28.42	2.85	-
AV	2.4548G	105.31	Inf	-Inf	74.04	3	Horizontal	54	1.04	-	28.42	2.85	-
PK	2.4864G	65.98	74.00	-8.02	34.54	3	Horizontal	54	1.04	-	28.55	2.89	-
AV	2.4844G	52.11	54.00	-1.89	20.69	3	Horizontal	54	1.04	-	28.54	2.88	-

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX

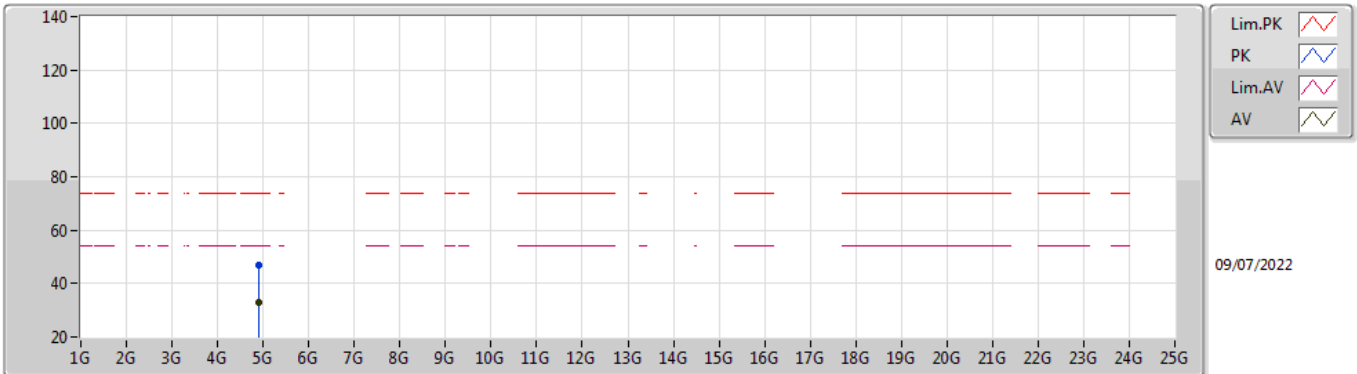


EUT X_2TX
Setting 20.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)	
PK	4.9109G	46.64	74.00	-27.36	39.09	3	Vertical	337	1.26	-	33.22	5.10	30.77	
AV	4.90952G	32.39	54.00	-21.61	24.84	3	Vertical	337	1.26	-	33.22	5.10	30.77	

802.11ax HEW40_Nss1,(MCS0)_2TX

2452MHz_TX



EUT X_2TX
Setting 20.5
02-B-E-2

Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Raw (dBuV)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comment	AF (dB)	CL (dB)	PA (dB)
PK	4.90034G	47.03	74.00	-26.97	39.50	3	Horizontal	335	1.76	-	33.20	5.10	30.77
AV	4.89992G	32.68	54.00	-21.32	25.15	3	Horizontal	335	1.76	-	33.20	5.10	30.77