

FCC Radio Test Report

FCC ID : 2AXZJ-CTX0710W3
Equipment : Telematics Control Unit
Brand Name : Lucid USA, Inc
Model Name : P11-K290G0-02
Applicant : Lucid USA, Inc
Lucid Motors, Inc 7373 Gateway Blvd,
Newark, California, United States, 94560
Manufacturer : Lucid USA, Inc
Lucid Motors, Inc 7373 Gateway Blvd,
Newark, California, United States, 94560
Standard : 47 CFR FCC Part 15.247

The product was received on Jan. 17, 2023, and testing was started from Feb. 08, 2023 and completed on Mar. 10, 2023. We, SPORTON INTERNATIONAL INC. Hsinhua Laboratory, would like to declare that the tested sample has been evaluated in accordance with the procedures given in 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. Hsinhua Laboratory, the test report shall not be reproduced except in full.



Approved by: Jackson Tsai

SPORTON INTERNATIONAL INC. Hsinhua Laboratory

No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)



Table of Contents

HISTORY OF THIS TEST REPORT	3
SUMMARY OF TEST RESULT	4
1 GENERAL DESCRIPTION	5
1.1 Information.....	5
1.2 Testing Applied Standards	8
1.3 Testing Location Information	8
1.4 Measurement Uncertainty	8
2 TEST CONFIGURATION OF EUT.....	9
2.1 Test Channel Mode	9
2.2 The Worst Case Measurement Configuration.....	10
2.3 Accessories	11
2.4 Support Equipment.....	11
2.5 Test Setup Diagram	12
3 TRANSMITTER TEST RESULT	13
3.1 DTS Bandwidth.....	13
3.2 Maximum Conducted Output Power	14
3.3 Power Spectral Density	16
3.4 Emissions in Non-restricted Frequency Bands	17
3.5 Emissions in Restricted Frequency Bands.....	18
4 TEST EQUIPMENT AND CALIBRATION DATA	22
APPENDIX A. TEST RESULTS OF DTS BANDWIDTH	
APPENDIX B. TEST RESULTS OF MAXIMUM CONDUCTED OUTPUT POWER	
APPENDIX C. TEST RESULTS OF POWER SPECTRAL DENSITY	
APPENDIX D. TEST RESULTS OF EMISSIONS IN NON-RESTRICTED FREQUENCY BANDS	
APPENDIX E. TEST RESULTS OF EMISSIONS IN RESTRICTED FREQUENCY BANDS	
APPENDIX F. TEST RESULTS OF RADIATED EMISSION CO-LOCATION	
APPENDIX G. TEST PHOTOS	
PHOTOGRAPHS OF EUT V01	



History of this test report

Report No.	Version	Description	Issued Date
FR152404-03AC	01	Initial issue of report	Apr. 07, 2023

Summary of Test Result

Report Clause	Ref. Std. Clause	Test Items	Result (PASS/FAIL)	Remark
1.1.2	15.203	Antenna Requirement	PASS	-
-	15.207	AC Power-line Conducted Emissions	Not Required	Only employ battery power.
3.1	15.247(a)	DTS Bandwidth	PASS	-
3.2	15.247(b)	Maximum Conducted Output Power	PASS	-
3.3	15.247(e)	Power Spectral Density	PASS	-
3.4	15.247(d)	Emissions in Non-restricted Frequency Bands	PASS	-
3.5	15.247(d)	Emissions in Restricted Frequency Bands	PASS	-

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and explanations:

None

Reviewed by: Ryan Hsiao

Report Producer: Ann Hou

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	1TX
2.4-2.4835GHz	802.11g	20	1TX
2.4-2.4835GHz	802.11ax HEW20	20	1TX
2.4-2.4835GHz	802.11ax HEW40	40	1TX

Note:

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

1.1.2 Antenna Information

Ant.	Brand	Model Name	Antenna Type	Connector
1	Amphenol	P11-J67E00-02	FPC	FARKA
2	Amphenol	P11-J67200-02	FPC	FARKA
3	nextium	P11-J44000-00	FPC	FARKA
4	nextium	P11-J44100-00	FPC	FARKA

Ant.	Port	2.4G Gain (dBi)						Remark (Note. 1)
		2400	2420	2440	2460	2480	2500	
1	1	3.1	3.0	2.8	2.9	3.0	3.5	w/o cable
		0.6	0.5	0.3	0.4	0.5	1.0	with cable

Ant.	Port	5G Gain (dBi)				Remark (Note. 2)
		5150	5250	5750	5850	
1	1	1.5	2.2	4.1	4.3	w/o cable
		-1.8	-1.1	0.7	0.9	with cable
2	2	1.7	2.3	3.9	4.1	w/o cable
		-1.6	-1.0	0.5	0.7	with cable

Ant.	Port	WWAN 2G/3G Gain (dBi)					Remark (Note. 3)
		GSM 850	PCS 1900	WCDMA Band 2	WCDMA Band 4	WCDMA Band 5	
3~4	1~2	1.0	4.5	4.5	4.5	1.0	w/o cable
		-0.2	2.7	2.7	2.7	-0.2	with cable

Ant.	Port	WWAN 4G Gain (dBi)						Remark (Note. 3)
		LTE Band 2	LTE Band 4/66	LTE Band 5	LTE Band 7	LTE Band 12	LTE Band 13	
3~4	1~2	4.5	4.5	1.0	5.7	1.0	1.0	w/o cable
		2.7	2.7	-0.2	2.7	-0.2	-0.2	with cable

Note 1: WLAN 2.4G cable loss = 2.5 dB.

Note 2: WLAN 5GHz Band 1 cable loss = 3.3 dB, and 5GHz Band 4 cable loss = 3.4 dB.

Note 3: WWAN cable loss = 1.2 dB (GSM 850, FDD V, LTE Band 5, 12, 13)

WWAN cable loss = 1.8 dB (PCS 1900, FDD II, FDD IV, LTE Band 2, 4/66)

WWAN cable loss = 3.0 dB (LTE Band 7).

Note 4: The EUT has four antennas.

For 2.4GHz function:

For IEEE 802.11 b/g/n/VHT/ax mode (1TX/1RX)

Ant. 1 (port 1) could transmit/receive.

For 5GHz function:

For IEEE 802.11 a mode (1TX/1RX)

Support diversity function and pre-tested on each single chain, the worst case was Ant. 2(port 2) and it was recored in this test report.

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

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

For WWAN 2G function (1TX/1RX):

Ant. 3 (port 1) could transmit/receive.

For WWAN 3G/4G function (1TX/2RX):

Ant. 3 (port 1) could transmit, and Ant. 3 (port 1) and Ant. 4 (port 2) could receive simultaneously.

1.1.3 EUT Information

Operational Condition			
EUT Power Type	From DC Power Supply		
EUT Function	☒ Point-to-multipoint	☐ Point-to-point	
Beamforming Function	☐ With beamforming	☒ Without beamforming	
Resource Unit(802.11ax)	☒ Full RU	☐ Partial RU	
Type of EUT			
☒	Stand-alone		
☐	Combined (EUT where the radio part is fully integrated within another device)		
	Combined Equipment - Brand Name / Model No.:		...
☐	Plug-in radio (EUT intended for a variety of host systems)		
	Host System - Brand Name / Model No.:		...
☐	Other:		

1.1.4 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) $\geq 1/T$
802.11b_Nss1,(1Mbps)_1TX	0.999	0.01	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11g_Nss1,(6Mbps)_1TX	0.989	0.05	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW20_Nss1,(MCS0)_1TX	0.987	0.06	n/a (DC $\geq$ 0.98)	n/a (DC $\geq$ 0.98)
802.11ax HEW40_Nss1,(MCS0)_1TX	0.975	0.11	552.187u	3k

Note. If DC < 0.98, the DCF was added while measuring Output power and PSD.

1.2 Testing Applied Standards

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

- ♦ 47 CFR FCC Part 15
- ♦ ANSI C63.10-2013

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

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

1.3 Testing Location Information

Test Lab. : Sporton International Inc. Hsinhua Laboratory				
☒ Hsinhua (TAF: 3785)	ADD: No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333411, Taiwan (R.O.C.)			
	TEL: 886-3-327-3456		FAX: 886-3-327-0973	
Test site Designation No. TW3785 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
RF Conducted	TH07-HY	Xie Xun	23.1~24.5°C / 50~55%	08/Feb/2023~16/Feb/2023
Radiated above 1G	03CH02-HY	Ivan Chung	20.4~25.8°C / 53~64%	15/Feb/2023
☒ Wen 33rd.St. (TAF: 3785)	ADD: No.14-1, Ln. 19, Wen 33rd St., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)			
	TEL: 886-3-318-0787		FAX: 886-3-318-0287	
Test site Designation No. TW0008 with FCC.				
Test Condition	Test Site No.	Test Engineer	Test Environment	Test Date
Radiated below 1G	03CH09-HY	Henry Ho	21.3~22.8°C / 51~62%	10/Feb/2023
Radiated-Co-location	03CH09-HY	Jack Tang	21.0~21.5°C / 56~60%	10/Mar/2023

1.4 Measurement Uncertainty

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

Test Items	Uncertainty	Remark
Bandwidth	3 MHz	Confidence levels of 95%
Maximum Conducted Output Power	2 dB	Confidence levels of 95%
Power Spectral Density	2 dB	Confidence levels of 95%
Emissions in Non-restricted Frequency Bands	0.14 dB	Confidence levels of 95%
Emissions in Restricted Frequency Bands	4.8 dB	Confidence levels of 95%
Temperature	0.41 °C	Confidence levels of 95%
Humidity	3.4 %	Confidence levels of 95%

2 Test Configuration of EUT

2.1 Test Channel Mode

Test Software Version	PutTY Release 0.72
Mode	Power Setting
802.11b_Nss1,(1Mbps)_1TX	-
2412MHz	22
2437MHz	21
2457MHz	20.5
2462MHz	19.5
802.11g_Nss1,(6Mbps)_1TX	-
2412MHz	17
2417MHz	17.5
2437MHz	18
2457MHz	16.5
2462MHz	15
802.11ax HEW20_Nss1,(MCS0)_1TX	-
2412MHz	15
2417MHz	16
2437MHz	16
2457MHz	16
2462MHz	13.5
802.11ax HEW40_Nss1,(MCS0)_1TX	-
2422MHz	12
2427MHz	14.5
2437MHz	15
2447MHz	11.5
2452MHz	11.5

2.2 The Worst Case Measurement Configuration

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

The Worst Case Mode for Following Conformance Tests	
Tests Item	Emissions in Restricted Frequency Bands
Test Condition	Radiated measurement If EUT consist of multiple antenna assembly (multiple antenna are used in EUT regardless of spatial multiplexing MIMO configuration), the radiated test should be performed with highest antenna gain of each antenna type.
Operating Mode < 1GHz	CTX
1	DC Power Supply mode
Operating Mode > 1GHz	CTX
Orthogonal Planes of EUT	Z Plane
	

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis
Operating Mode	CTX
1	WLAN 2.4G +WWAN
2	WLAN 5G + WWAN
Refer to Sporton Test Report No.: FA152404-03 for Co-location RF Exposure Evaluation and Appendix F for Radiated Emission Co-location.	

2.3 Accessories

Accessories		
DC Power Cable	Signal Line	2.0 meter, non-shielded cable, w/o ferrite core
APTIV Cable	Signal Line	2.0 meter, shielded cable, w/o ferrite core
Antenna Cable (WiFi*2)	Signal Line	2.5 meter, shielded cable, w/o ferrite core
Antenna Cable (LTE L & R)	Signal Line	2.5 meter, shielded cable, w/o ferrite core
GPS Cable	Signal Line	2.0 meter, shielded cable, w/o ferrite core

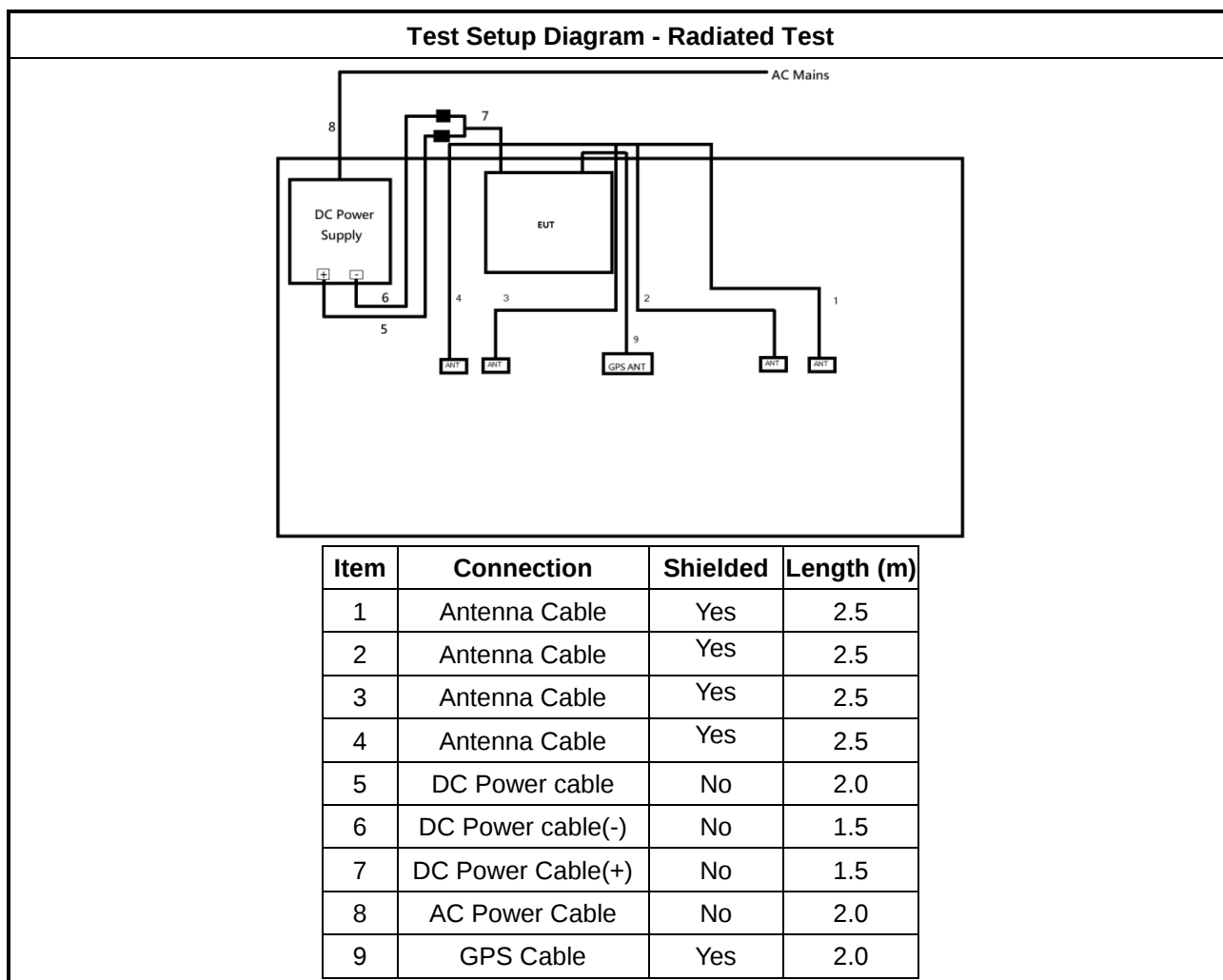
Reminder: Regarding to more detail and other information, please refer to user manual.

2.4 Support Equipment

Support Equipment – Conducted					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	Notebook	DELL	E5410	-	-
2	Adapter for NB	DELL	HA65NM130	-	-
3	DC Power Supply	GW	GPS-3030DD	-	-

Support Equipment – Radiated					
No.	Equipment	Brand Name	Model Name	FCC ID	Remark
1	DC power supply	GW	GPS-3030DD	-	-
2	DC Power cable(+)	MiSUMi	WTN1229-RAD	-	-
3	DC Power cable(-)	MiSUMi	WTN1229-BLACK	-	-

2.5 Test Setup Diagram



3 Transmitter Test Result

3.1 DTS Bandwidth

3.1.1 6dB Bandwidth Limit

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

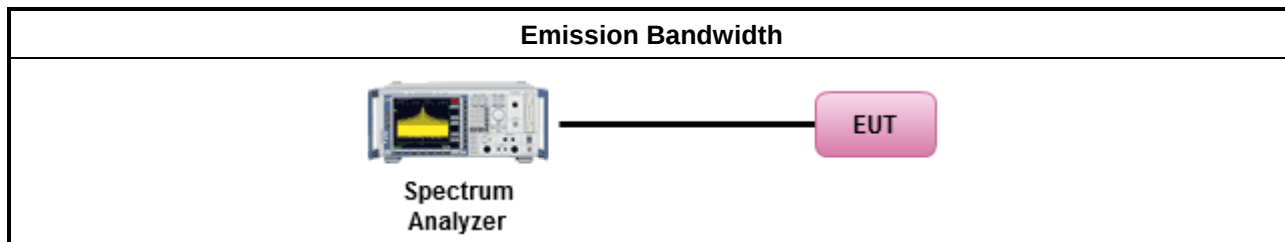
3.1.2 Measuring Instruments

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

3.1.3 Test Procedures

Test Method	
▪	For the emission bandwidth shall be measured using one of the options below:
☒	Refer as KDB 558074. clause 8.2 (11.8 of ANSI C63.10) DTS bandwidth measurement.
☐	Refer as RSS-Gen, clause 6.7 for occupied bandwidth testing.
☐	Refer as ANSI C63.10, clause 6.9.3 for occupied bandwidth testing.

3.1.4 Test Setup



3.1.5 Test Result of Emission Bandwidth

Refer as Appendix A

3.2 Maximum Conducted Output Power

3.2.1 Maximum Conducted Output Power Limit

Maximum Conducted Output Power Limit	
	If $G_{TX} \leq 6$ dBi, then $P_{Out} \leq 30$ dBm (1 W)
	Point-to-multipoint systems (P2M): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)$ dBm
	Point-to-point systems (P2P): If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	Smart antenna system (SAS):
	- Single beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Overlap beam: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3$ dBm
	- Aggregate power on all beams: If $G_{TX} > 6$ dBi, then $P_{Out} = 30 - (G_{TX} - 6)/3 + 8$ dB dBm
e.i.r.p. Power Limit:	
	2400-2483.5 MHz Band
	Point-to-multipoint systems (P2M): $P_{eirp} \leq 36$ dBm (4 W)
	Point-to-point systems (P2P): $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX}])$ dBm
	Smart antenna system (SAS)
	- Single beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Overlap beam: $P_{eirp} \leq \text{MAX}(36, P_{Out} + G_{TX})$ dBm
	- Aggregate power on all beams: $P_{eirp} \leq \text{MAX}(36, [P_{Out} + G_{TX} + 8])$ dBm
P_{Out} = maximum peak conducted output power or maximum conducted output power in dBm, G_{TX} = the maximum transmitting antenna directional gain in dBi.	

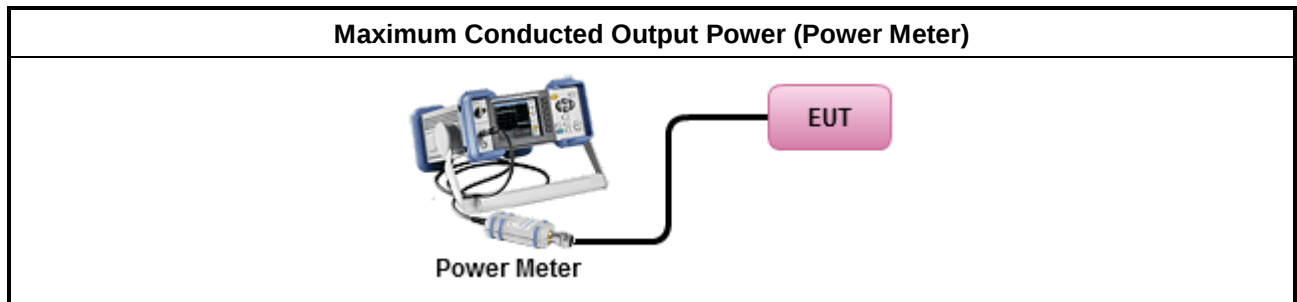
3.2.2 Measuring Instruments

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

3.2.3 Test Procedures

Test Method	
Maximum Peak Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.1.1 (11.9.1.1 of ANSI C63.10) RBW ≥ EBW method.
☐	Refer as KDB 558074, clause 8.3.1.2 (11.9.1.2 of ANSI C63.10) integrated band power method.
☐	Refer as KDB 558074, clause 8.3.1.3 (11.9.1.3 of ANSI C63.10) peak power meter.
Maximum Average Conducted Output Power	
☐	Refer as KDB 558074, clause 8.3.2.2 (11.9.2.2 of ANSI C63.10) using a spectrum analyzer.
☒	Refer as KDB 558074, clause 8.3.2.3 (11.9.2.3 of ANSI C63.10) using a power meter.
For conducted measurement.	
If the EUT supports multiple transmit chains using options given below: Refer as 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]) $EIRP_{total} = P_{total} + DG$	

3.2.4 Test Setup



3.2.5 Test Result of Maximum Conducted Output Power

Refer as Appendix B

3.3 Power Spectral Density

3.3.1 Power Spectral Density Limit

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

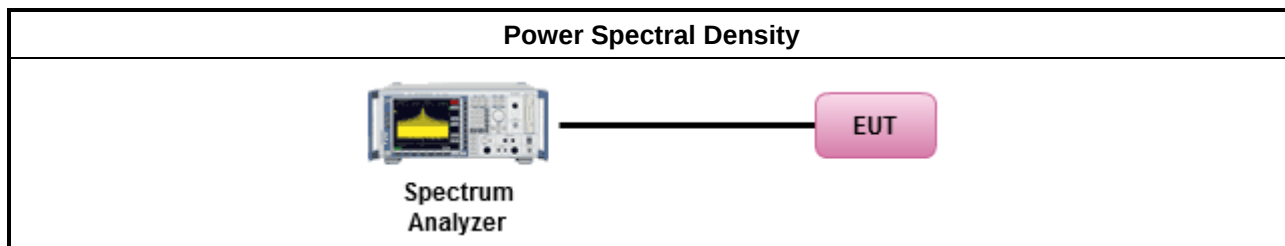
3.3.2 Measuring Instruments

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

3.3.3 Test Procedures

Test Method	
▪	Peak power spectral density procedures that the same method as used to determine the conducted output power. If maximum peak conducted output power was measured to demonstrate compliance to the output power limit, then the peak PSD procedure below (Method PKPSD) shall be used. If maximum conducted output power was measured to demonstrate compliance to the output power limit, then one of the average PSD procedures shall be used, as applicable based on the following criteria (the peak PSD procedure is also an acceptable option).
☒	Refer as KDB 558074, clause 8.4 (11.10 of ANSI C63.10) Max. PSD.
▪	For conducted measurement.
▪	If The EUT supports multiple transmit chains using options given below:
▪	Measure and sum the spectra across the outputs. Refer as 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.

3.3.4 Test Setup



3.3.5 Test Result of Power Spectral Density

Refer as Appendix C

3.4 Emissions in Non-restricted Frequency Bands

3.4.1 Emissions in Non-restricted Frequency Bands Limit

Un-restricted Band Emissions Limit	
RF output power procedure	Limit (dB)
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 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 level.	

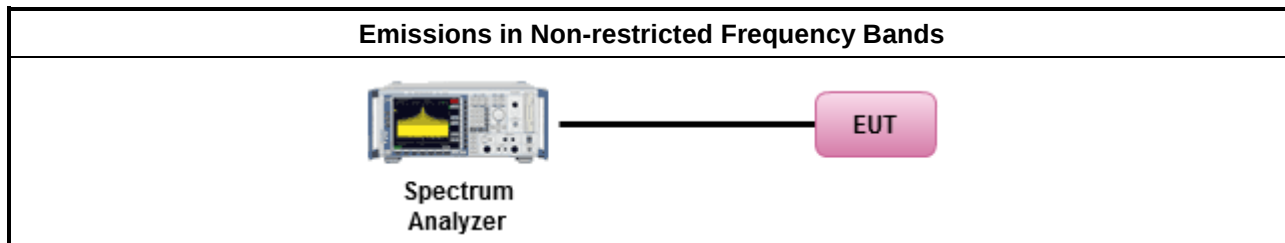
3.4.2 Measuring Instruments

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

3.4.3 Test Procedures

Test Method
Refer as KDB 558074, clause 8.5 (11.11 of ANSI C63.10) for non-restricted frequency bands.

3.4.4 Test Setup



3.4.5 Test Result of Emissions in Non-restricted Frequency Bands

Refer as Appendix D

3.5 Emissions in Restricted Frequency Bands

3.5.1 Emissions in Restricted Frequency Bands Limit

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

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

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

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

3.5.2 Measuring Instruments

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

3.5.3 Test Procedures

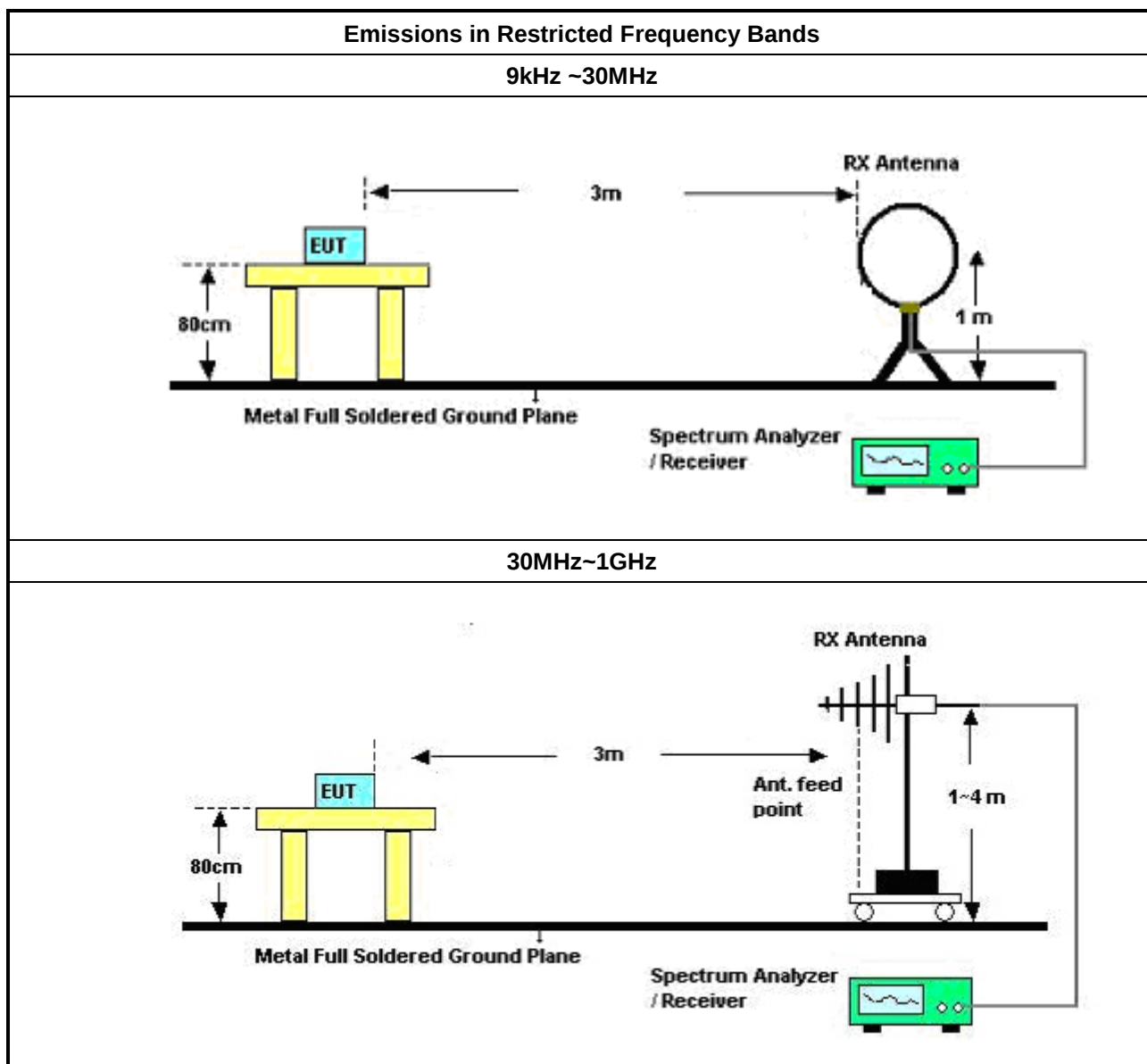
Test Method	
The average emission levels shall be measured in [duty cycle $\geq$ 98 or duty factor].	
Refer as ANSI C63.10, clause 6.10.3 band-edge testing shall be performed at the lowest frequency channel and highest frequency channel within the allowed operating band.	
For the transmitter unwanted emissions shall be measured using following options below:	
	Refer as KDB 558074, clause 8.6 (11.12 of ANSI C63.10) for restricted frequency bands.
For the transmitter band-edge emissions shall be measured using following options below:	
	Refer as KDB 558074 clause 8.7.1, 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 KDB 558074, clause 8.7.2 (6.10.6 of ANSI C63.10) for marker-delta method for band-edge measurements.
	Refer as KDB 558074, clause 8.7.3 for narrower resolution bandwidth (100kHz) using the band power and summing the spectral levels.
Use the following spectrum analyzer settings:	
	Set RBW=100 kHz for $f < 1$ GHz; VBW=3 * RBW; Sweep = auto; Detector function = peak; Trace = max hold.
	Set RBW = 1 MHz, VBW= 3MHz for $f \geq 1$ GHz for peak measurement. For average measurement, refer as 1.1.4.
KDB 414788 Open-Field Test Sites and Chamber Correlation Justification.	
	Based on FCC 15.31(f)(2): measurements may be performed at a distance closer than that specified in regulations; however, an attempt should be made to avoid making measurements in the near field.
	Open-field site and chamber correlation testing had been performed and chamber measured test result is the worst case test result.

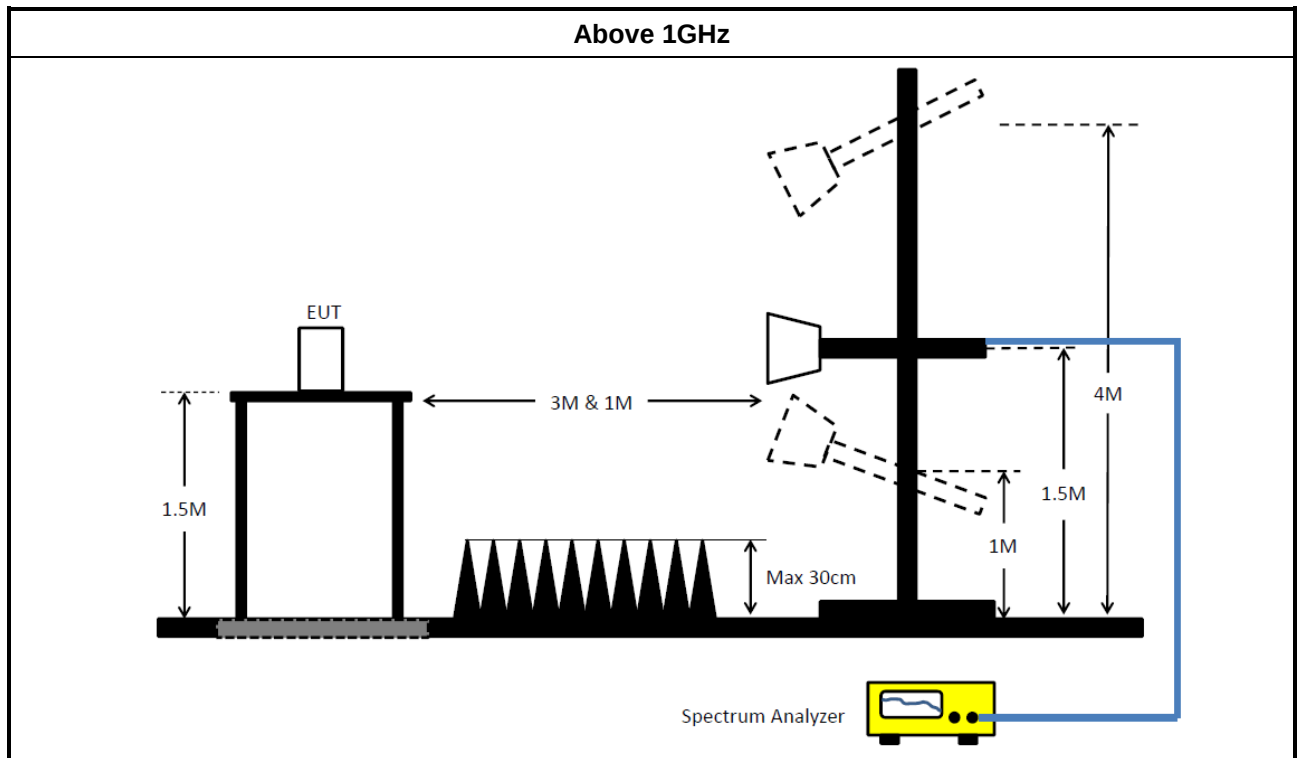
3.5.4 Measurement Results Calculation

The measured Level is calculated using:

Corrected Reading: Raw(Read Level) + AF(Antenna Factor) + CL(Cable Loss) - PA(Preamplifier Factor)

3.5.5 Test Setup





3.5.6 Test Result of Emissions in Restricted Frequency Bands (Below 30MHz)

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

3.5.7 Test Result of Emissions in Restricted Frequency Bands

Refer as Appendix E

4 Test Equipment and Calibration Data

Instrument for Conducted Test

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
Signal Analyzer	R&S	FSV 40	101515	10Hz~40GHz	14/Feb/2022	13/Feb/2023
Signal Analyzer	R&S	FSV 40	101029	10Hz~40GHz	10/Nov/2022	09/Nov/2023
SMB100A Signal Generator	R&S	SMB100A	181147	100kHz~40GHz	21/Oct/2022	20/Oct/2023
Pulse Sensor	Anritsu	MA2411B	1339407	300MHz~40GHz	14/Dec/2022	13/Dec/2023
Power Meter	Anritsu	ML2495A	1517010	300MHz~40GHz	14/Dec/2022	13/Dec/2023
SENSE-15247_DTS	Sporton	V5.11.5	N/A	N/A	N/A	N/A

Instrument for Radiated Test (below 1G)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	TDK	SAC-3M	03CH09-HY	30MHz~1GHz 3m	25/Mar/2022	24/Mar/2023
EXA Signal Analyzer	KEYSIGHT	N9010A	MY54200885	10Hz~44GHz	11/Aug/2022	10/Aug/2023
Amplifier	EMC	EMC9135	980232	9kHz~1GHz	08/Apr/2022	07/Apr/2023
Bilog Antenna & 5dB Attenuator	TESEQ & MTJ	CBL6111D&MT J6102-05	35418 & 3	30MHz~1GHz	28/Aug/2022	27/Aug/2023
RF Cable-low	Jye Bao	RG142	03CH09-cable-01	9kHz~1GHz	09/Dec/2022	08/Dec/2023
Loop Antenna	TESEQ	HLA 6120	31244	9kHz~30MHz	18/Mar/2022	17/Mar/2023
EMI Test Receiver	R&S	ESR3	102052	9kHz~3.6GHz	30/May/2022	29/May/2023
SENSE_15247_DTS	Sporton	Sporton	V5.11	NA	NA	NA

Instrument for Radiated Test (above 1G)

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Microwave Preamplifier	EMC INSTRUMENTS	EM18G40G	060604	18GHz~40GHz	08/Mar/2022	07/Mar/2023
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	21/Mar/2022	20/Mar/2023
SENSE-15247_DTS	Sporton	V5.11	N/A	N/A	N/A	N/A

**Instrument for Radiated Test (Co-location)**

Instrument	Manufacturer /Brand	Model No.	Serial No.	Spec.	Calibration Date	Calibration Due Date
3m Semi Anechoic Chamber	SIDT FRANKONIA	SAC-3M	03CH02-HY	1GHz~18GHz 3m	30/Jul/2022	29/Jul/2023
Microwave Preamplifier	Agilent	8449B	3008A02373	1GHz~26.5GHz	02/Nov/2022	01/Nov/2023
Double Ridged Guide Horn Antenna	SCHWARZBECK	BBHA 9120 D	02268	1GHz ~18GHz	27/Sep/2022	26/Sep/2023
RF Cable-R03m	HUBER+SUHNE R	SUCOFLEX104	03CH02-cable-01	1GHz~40GHz	10/Feb/2023	09/Feb/2024
Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA 9170221	15GHz~40GHz	18/Mar/2022	17/Mar/2023
Broadband Horn Antenna	SCHWARZBECK	EMC1150 & WK0602	980270 & WDCB-6SI	18GHz~40GHz	22/Aug/2022	21/Aug/2023
Signal Analyzer	R&S	FSP 40	100305	9kHz~40GHz	21/Mar/2022	20/Mar/2023
SENSE-EMI	Sporton	V5.11	N/A	N/A	N/A	N/A

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)_1TX	10.05M	13.378M	13M4G1D	10.05M	13.287M
802.11g_Nss1,(6Mbps)_1TX	16.35M	16.6M	16M6D1D	16.3M	16.587M
802.11ax HEW20_Nss1,(MCS0)_1TX	18.325M	18.78M	18M8D1D	18.025M	18.76M
802.11ax HEW40_Nss1,(MCS0)_1TX	37.1M	37.59M	37M6D1D	36.6M	37.53M

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)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	10.05M	13.287M
2437MHz	Pass	500k	10.05M	13.378M
2462MHz	Pass	500k	10.05M	13.302M
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-
2412MHz	Pass	500k	16.3M	16.592M
2437MHz	Pass	500k	16.35M	16.587M
2462MHz	Pass	500k	16.3M	16.6M
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-
2412MHz	Pass	500k	18.325M	18.77M
2437MHz	Pass	500k	18.3M	18.78M
2462MHz	Pass	500k	18.025M	18.76M
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-
2422MHz	Pass	500k	36.6M	37.53M
2437MHz	Pass	500k	37.1M	37.564M
2452MHz	Pass	500k	36.65M	37.59M

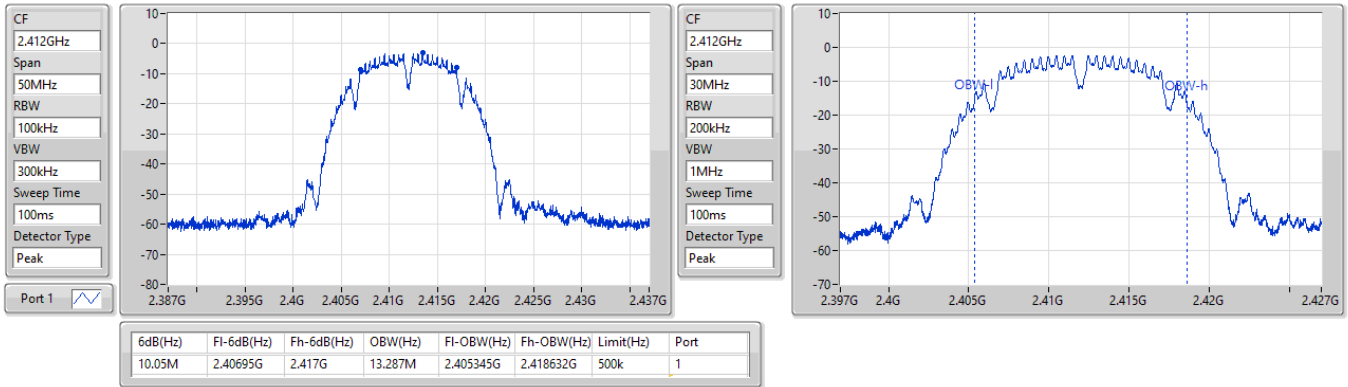
Port X-N dB = Port X 6dB down bandwidth;
Port X-OBW = Port X 99% occupied bandwidth

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2412MHz

08/02/2023

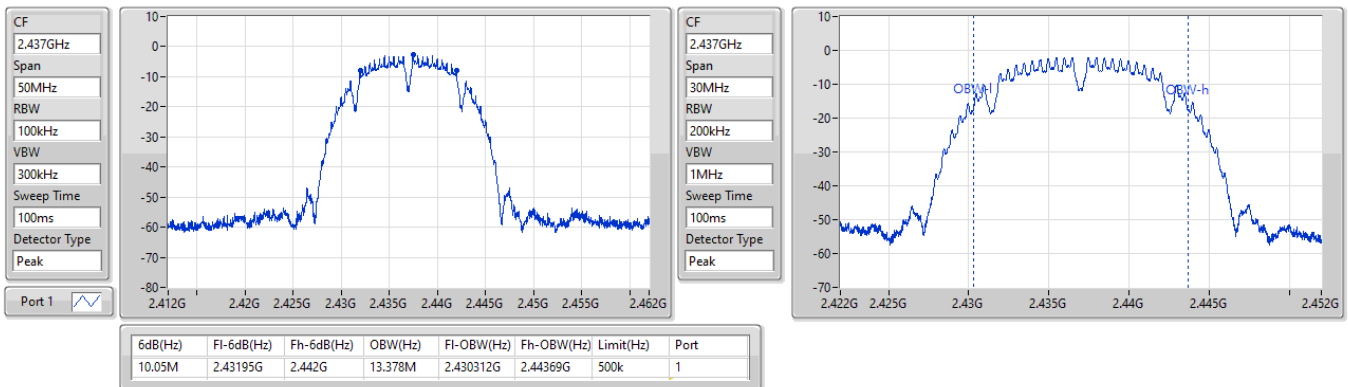


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2437MHz

08/02/2023

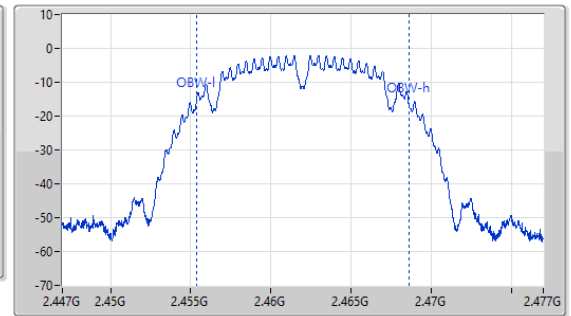
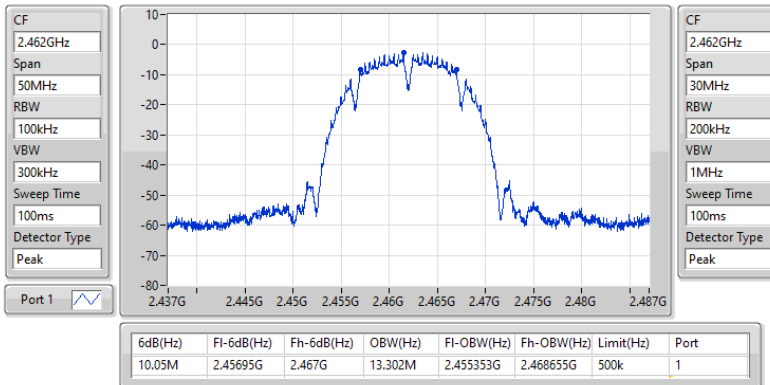


2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

EBW

2462MHz

08/02/2023

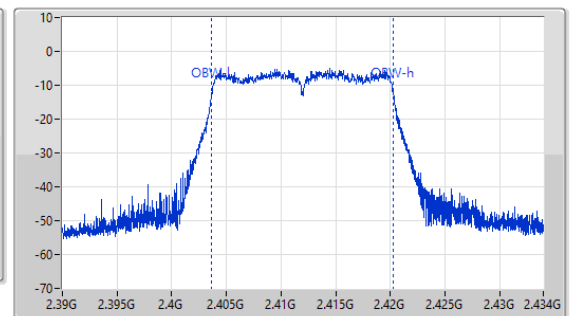
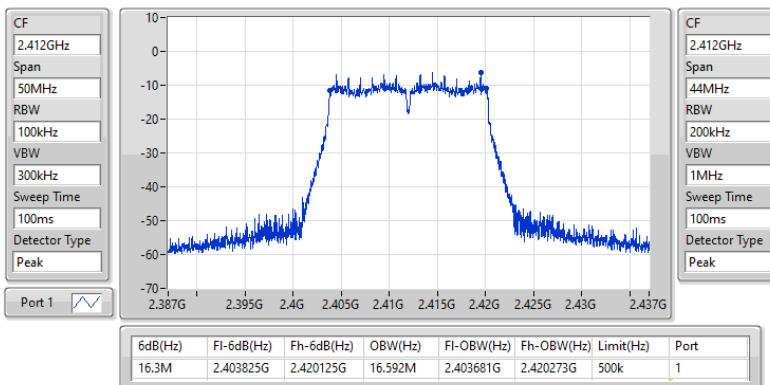


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2412MHz

08/02/2023

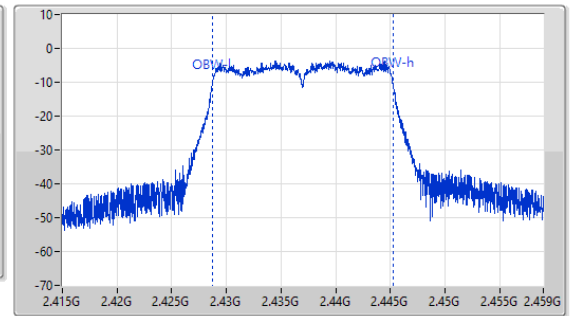
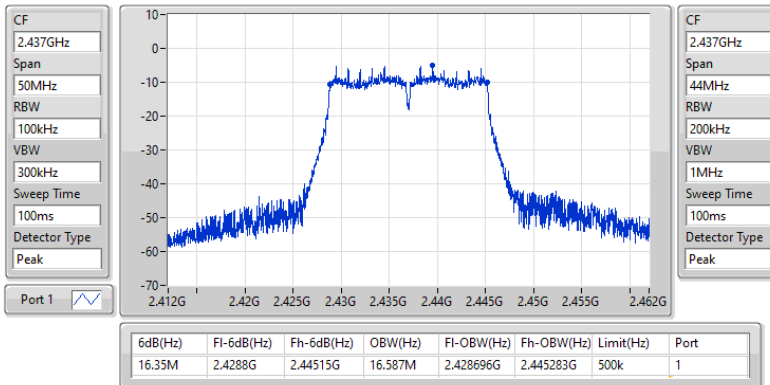


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2437MHz

08/02/2023

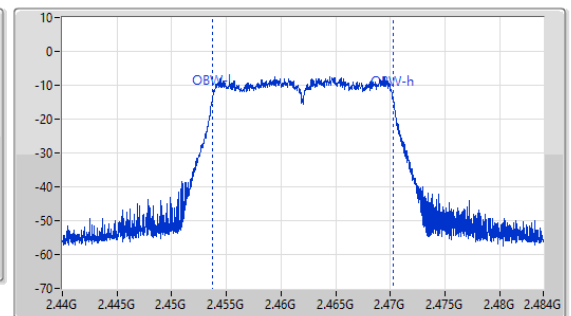
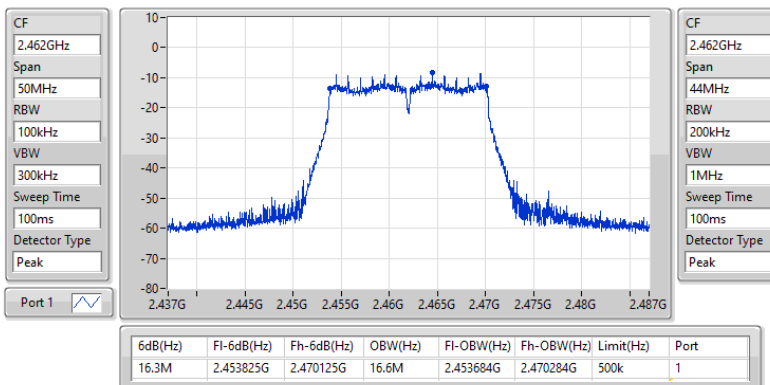


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

EBW

2462MHz

08/02/2023

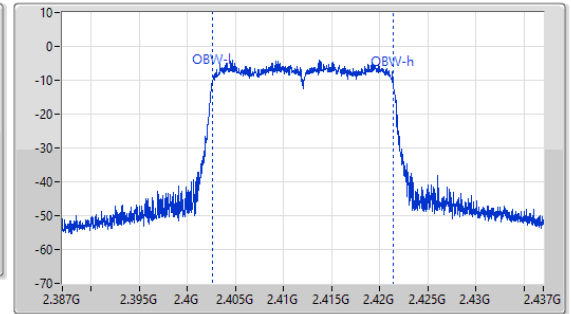
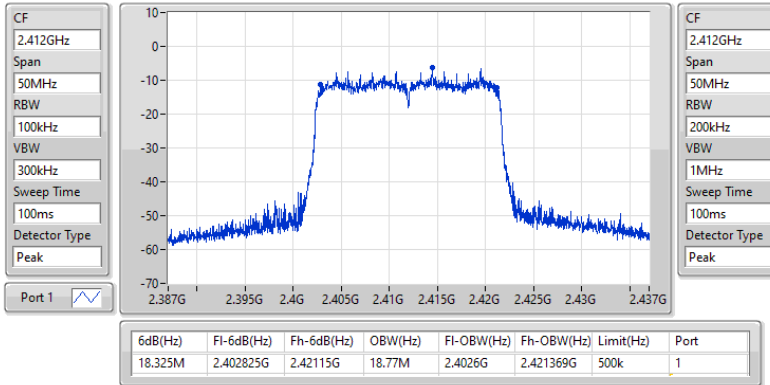


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2412MHz

08/02/2023

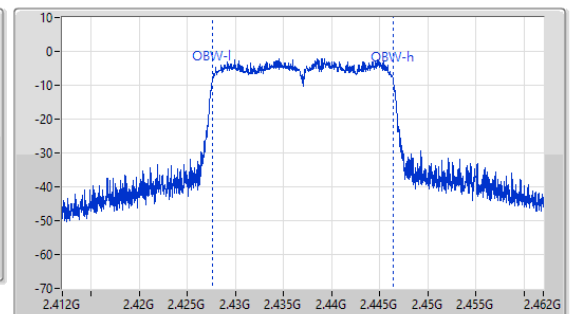
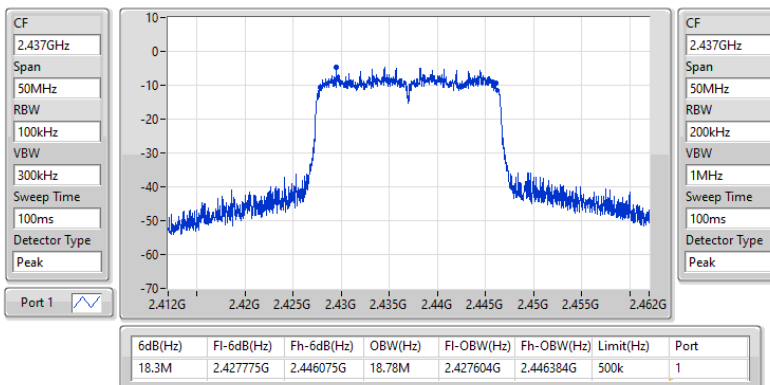


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2437MHz

08/02/2023

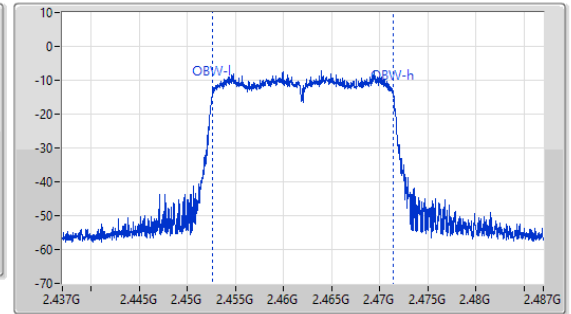
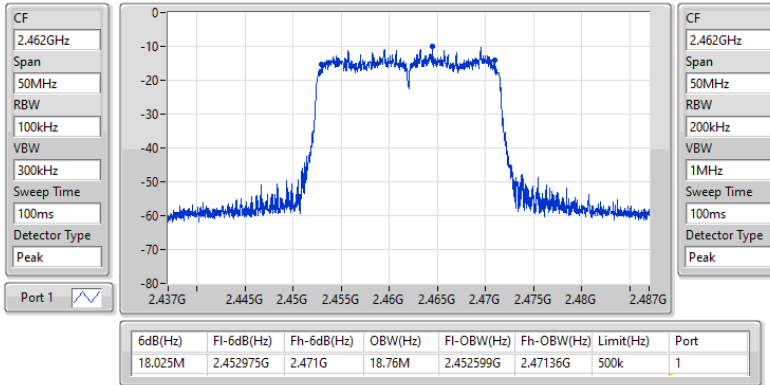


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

EBW

2462MHz

08/02/2023

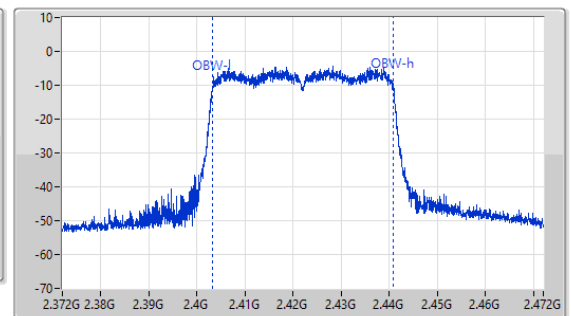
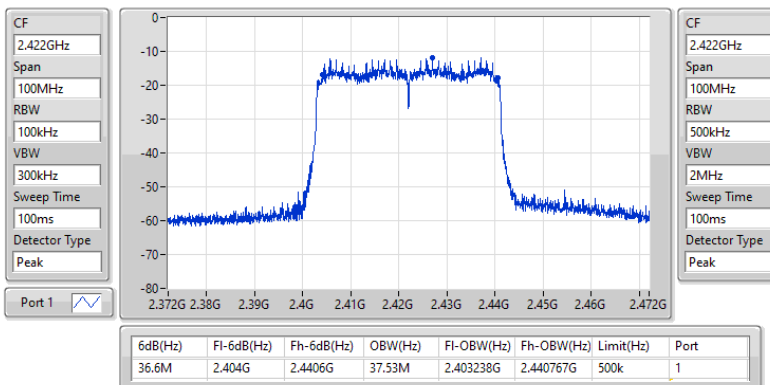


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

EBW

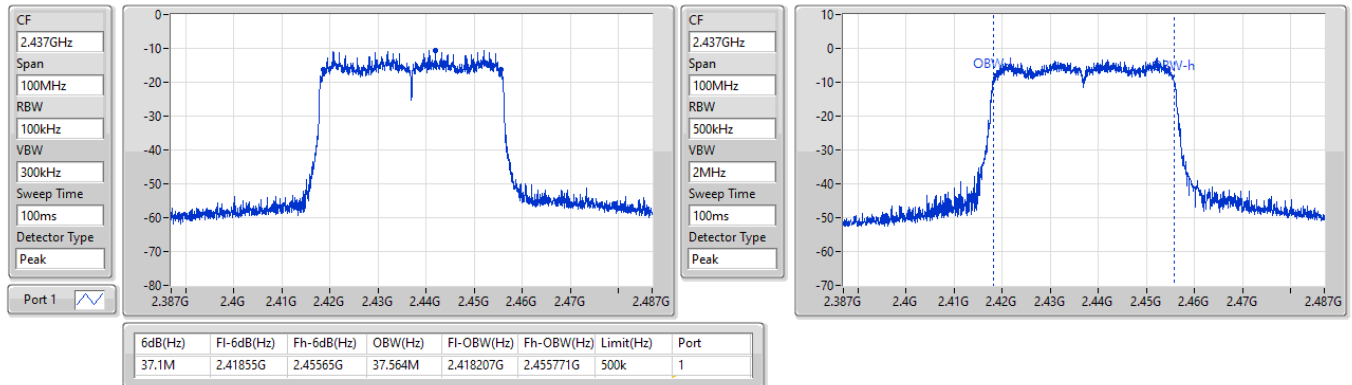
2422MHz

08/02/2023

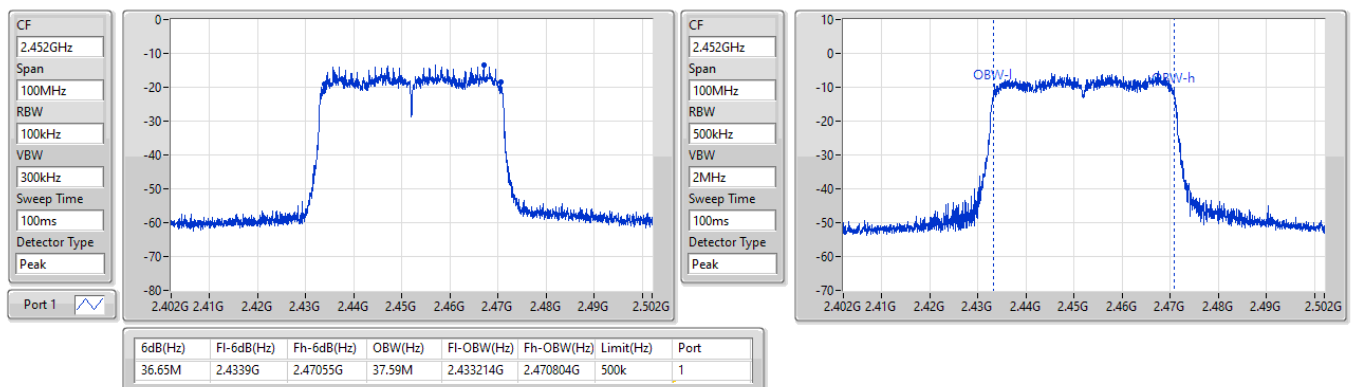


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
2437MHz

08/02/2023


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX
EBW
2452MHz

08/02/2023





Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_1TX	19.09	0.08110
802.11g_Nss1,(6Mbps)_1TX	17.02	0.05035
802.11ax HEW20_Nss1,(MCS0)_1TX	15.71	0.03724
802.11ax HEW40_Nss1,(MCS0)_1TX	13.30	0.02138

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	19.09	19.09	30.00
2437MHz	Pass	0.30	19.04	19.04	30.00
2457MHz	Pass	0.40	18.50	18.50	30.00
2462MHz	Pass	0.40	17.45	17.45	30.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	14.95	14.95	30.00
2417MHz	Pass	0.50	15.26	15.26	30.00
2437MHz	Pass	0.30	17.02	17.02	30.00
2457MHz	Pass	0.40	14.68	14.68	30.00
2462MHz	Pass	0.40	13.42	13.42	30.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	13.59	13.59	30.00
2417MHz	Pass	0.50	14.45	14.45	30.00
2437MHz	Pass	0.30	15.58	15.58	30.00
2457MHz	Pass	0.40	15.71	15.71	30.00
2462MHz	Pass	0.40	12.05	12.05	30.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	0.50	9.95	9.95	30.00
2427MHz	Pass	0.50	12.79	12.79	30.00
2437MHz	Pass	0.30	13.30	13.30	30.00
2447MHz	Pass	0.30	9.98	9.98	30.00
2452MHz	Pass	0.40	9.89	9.89	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_1TX	0.01
802.11g_Nss1,(6Mbps)_1TX	-9.22
802.11ax HEW20_Nss1,(MCS0)_1TX	-12.06
802.11ax HEW40_Nss1,(MCS0)_1TX	-15.92

RBW = 3kHz;

Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	-5.47	-5.47	8.00
2437MHz	Pass	0.30	0.01	0.01	8.00
2462MHz	Pass	0.40	-8.65	-8.65	8.00
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	-12.51	-12.51	8.00
2437MHz	Pass	0.30	-9.22	-9.22	8.00
2462MHz	Pass	0.40	-13.48	-13.48	8.00
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-
2412MHz	Pass	0.50	-13.92	-13.92	8.00
2437MHz	Pass	0.30	-12.06	-12.06	8.00
2462MHz	Pass	0.40	-15.06	-15.06	8.00
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-
2422MHz	Pass	0.50	-19.98	-19.98	8.00
2437MHz	Pass	0.30	-15.92	-15.92	8.00
2452MHz	Pass	0.40	-18.71	-18.71	8.00

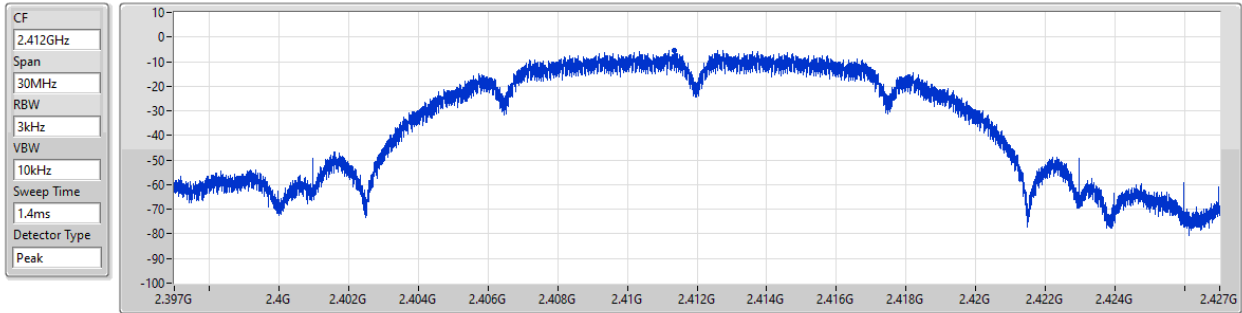
DG = Directional Gain; RBW = 3kHz;
 PD = trace bin-by-bin of each transmits port summing can be performed maximum power density; Port X = Port X Power Density;

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2412MHz

14/02/2023



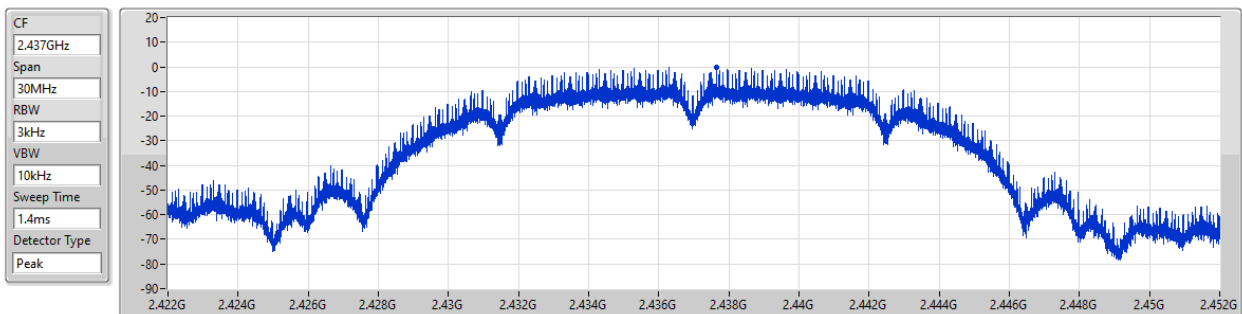
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
-5.47	-5.47	-5.47

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2437MHz

15/02/2023



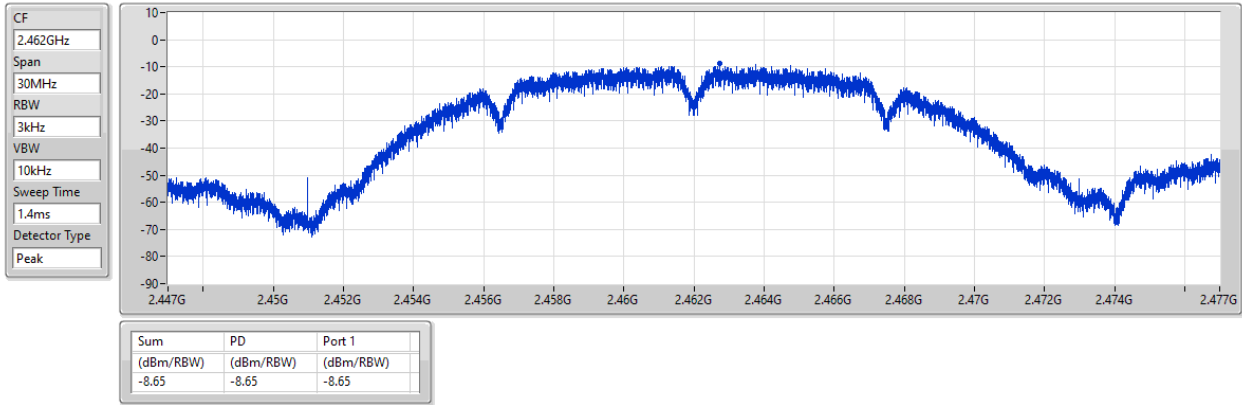
Sum	PD	Port 1
(dBm/100kHz)	(dBm/100kHz)	(dBm/100kHz)
0.01	0.01	0.01

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

PSD

2462MHz

15/02/2023

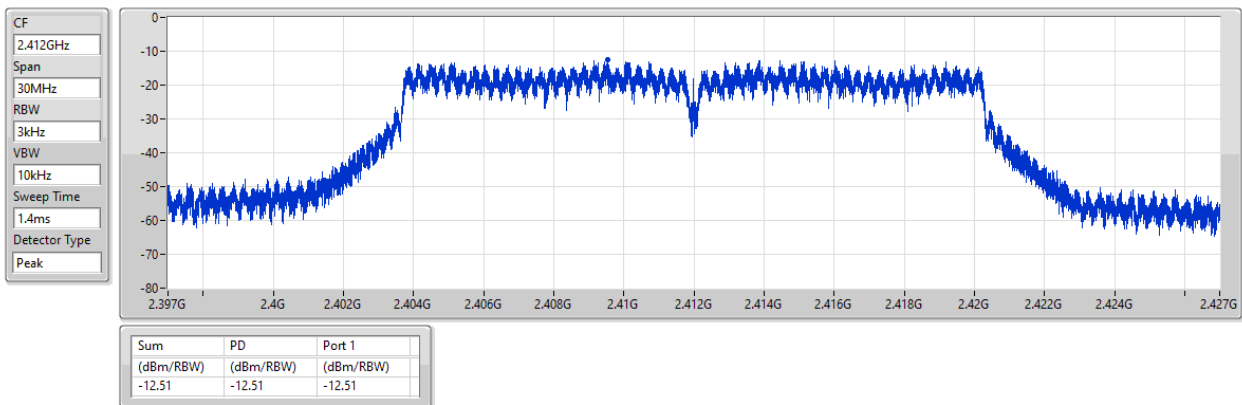


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2412MHz

15/02/2023

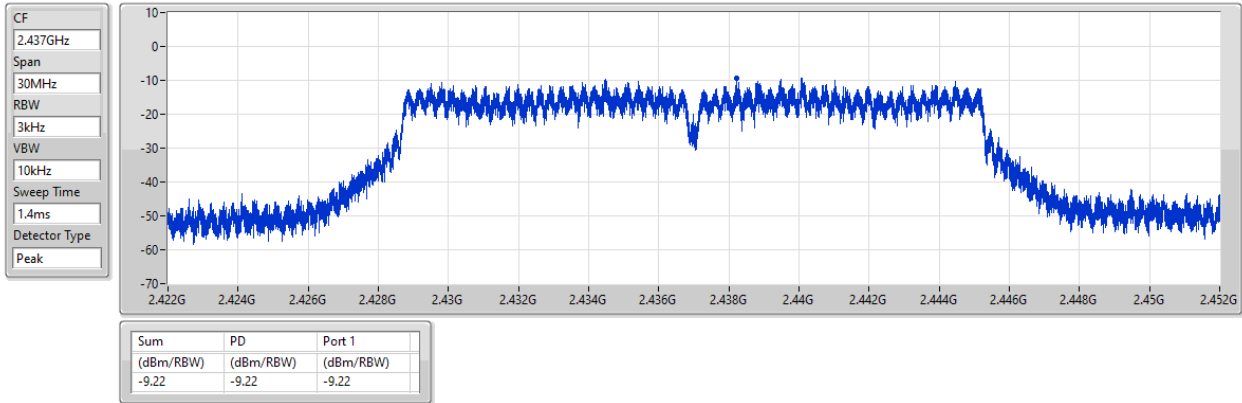


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2437MHz

15/02/2023

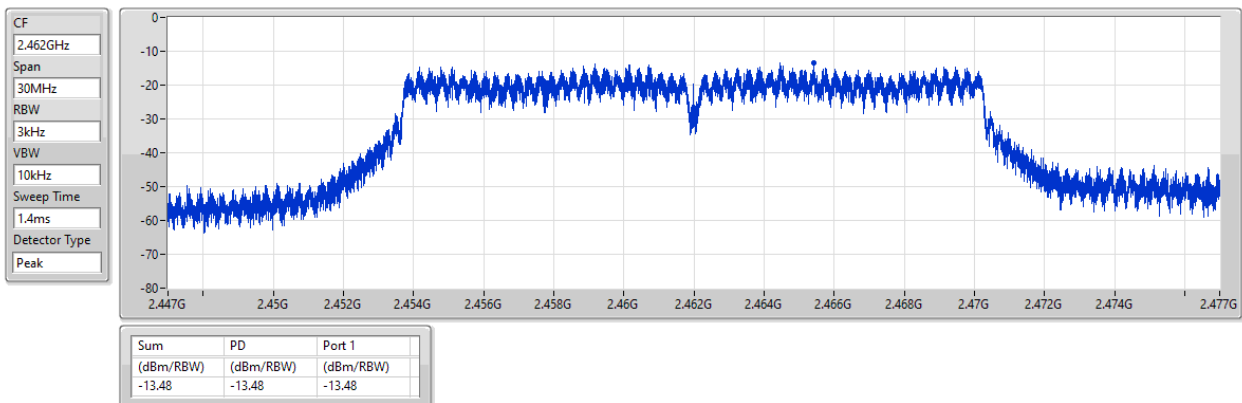


2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

PSD

2462MHz

15/02/2023

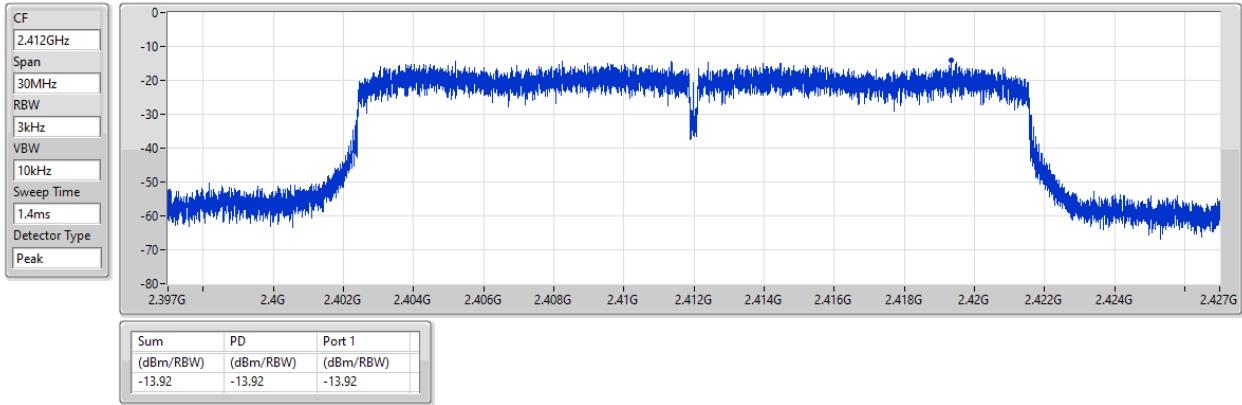


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2412MHz

15/02/2023

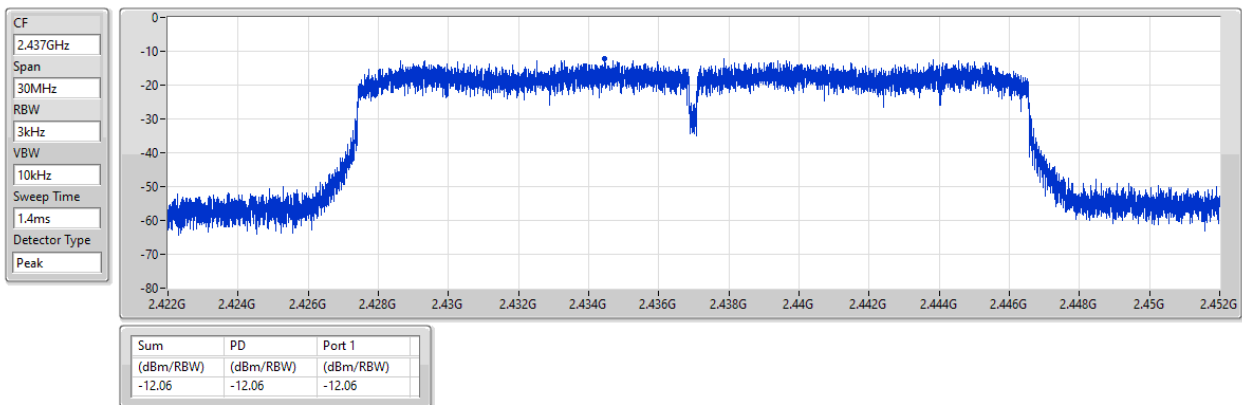


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2437MHz

15/02/2023

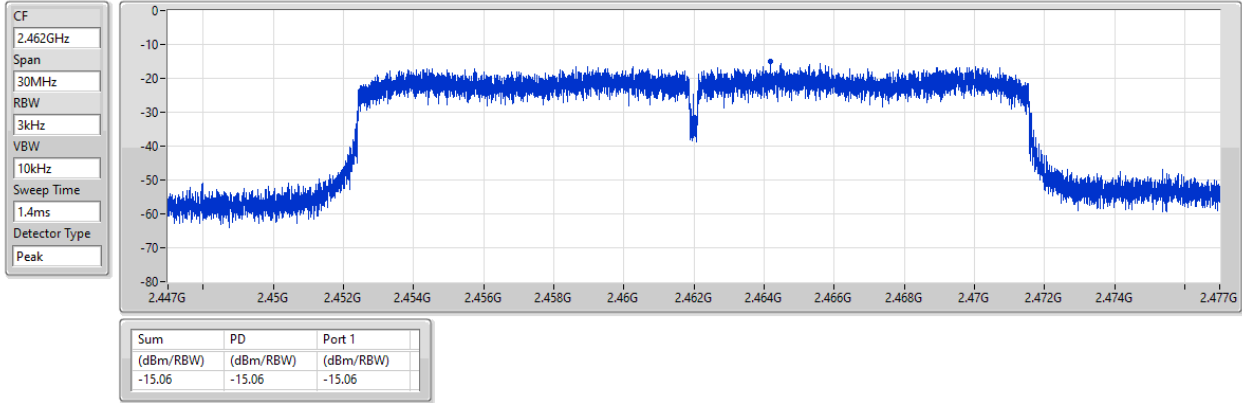


2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

PSD

2462MHz

15/02/2023

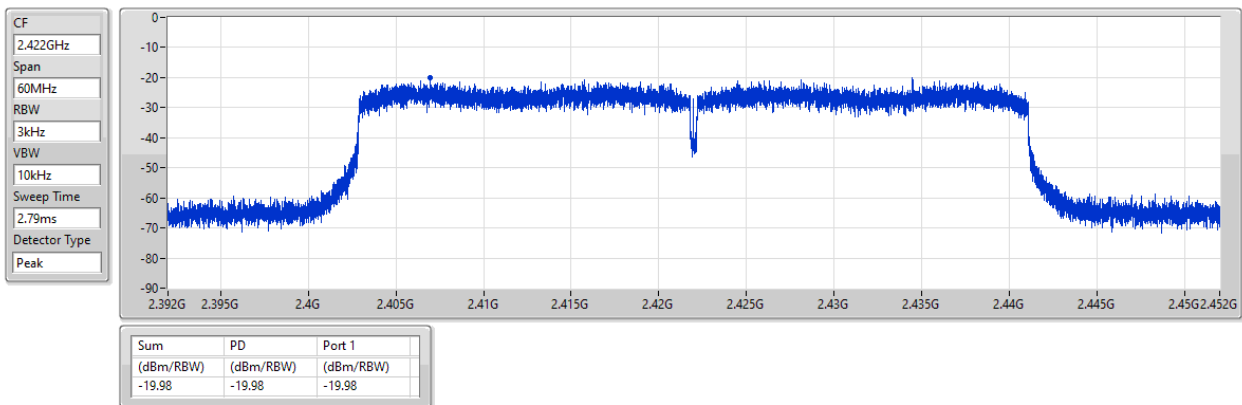


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2422MHz

15/02/2023

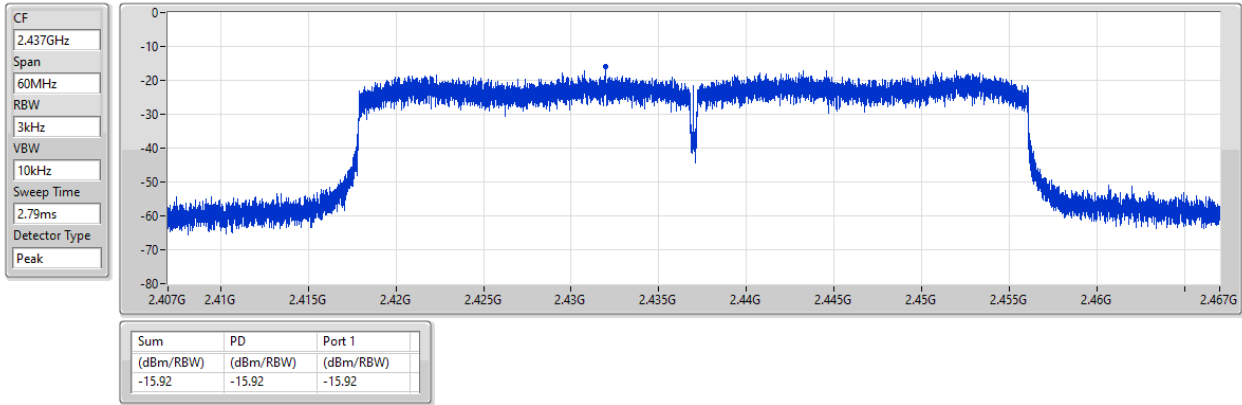


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2437MHz

15/02/2023

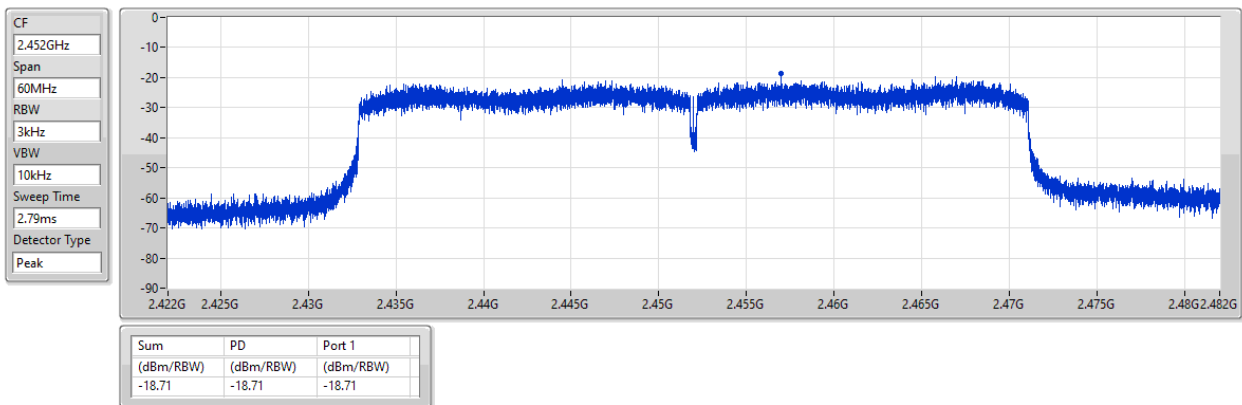


2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

PSD

2452MHz

15/02/2023





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)_1TX	Pass	2.41035G	6.32	-23.68	2.12234G	-57.15	2.39704G	-35.12	2.4G	-54.94	2.51742G	-55.40	21.651G	-46.69	1
802.11g_Nss1,(6Mbps)_1TX	Pass	2.43824G	-5.37	-35.37	2.30991G	-56.62	2.39864G	-47.48	2.4G	-48.36	2.51518G	-54.59	21.61448G	-45.99	1
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	2.44442G	-4.08	-34.08	2.12001G	-57.01	2.3996G	-46.50	2.4G	-51.54	2.50918G	-54.36	21.86734G	-46.88	1
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	2.45194G	-10.67	-40.67	745.63M	-50.72	2.39808G	-52.23	2.4G	-50.93	2.55102G	-56.89	21.94864G	-45.99	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)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.41035G	6.32	-23.68	2.12234G	-57.15	2.39704G	-35.12	2.4G	-54.94	2.51742G	-55.40	21.651G	-46.69	1
2437MHz	Pass	2.41035G	6.32	-23.68	2.17477G	-57.46	2.39376G	-52.07	2.4G	-57.29	2.51462G	-54.94	21.79148G	-46.63	1
2462MHz	Pass	2.41035G	6.32	-23.68	2.00934G	-57.27	2.3964G	-55.32	2.4G	-59.01	2.5051G	-53.94	21.57233G	-47.35	1
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43824G	-5.37	-35.37	2.30991G	-56.62	2.39864G	-47.48	2.4G	-48.36	2.51518G	-54.59	21.61448G	-45.99	1
2437MHz	Pass	2.43824G	-5.37	-35.37	2.17943G	-57.06	2.3932G	-54.15	2.4G	-57.73	2.50438G	-54.19	21.62291G	-46.38	1
2462MHz	Pass	2.43824G	-5.37	-35.37	47.48M	-55.57	2.39552G	-54.78	2.4G	-59.05	2.51918G	-53.80	21.60605G	-45.82	1
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.44442G	-4.08	-34.08	2.12001G	-57.01	2.3996G	-46.50	2.4G	-51.54	2.50918G	-54.36	21.86734G	-46.88	1
2437MHz	Pass	2.44442G	-4.08	-34.08	2.30292G	-56.68	2.39776G	-54.77	2.4G	-56.75	2.51278G	-54.34	21.40095G	-46.25	1
2462MHz	Pass	2.44442G	-4.08	-34.08	2.17127G	-55.86	2.3904G	-54.77	2.4G	-60.03	2.52294G	-54.64	21.71281G	-46.12	1
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.45194G	-10.67	-40.67	745.63M	-50.72	2.39808G	-52.23	2.4G	-50.93	2.55102G	-56.89	21.94864G	-45.99	1
2437MHz	Pass	2.45194G	-10.67	-40.67	1.75323G	-57.16	2.39952G	-55.28	2.4G	-57.52	2.54638G	-56.37	21.45223G	-47.25	1
2452MHz	Pass	2.45194G	-10.67	-40.67	2.08986G	-56.76	2.3984G	-56.99	2.4G	-58.83	2.5083G	-56.36	21.46345G	-47.24	1

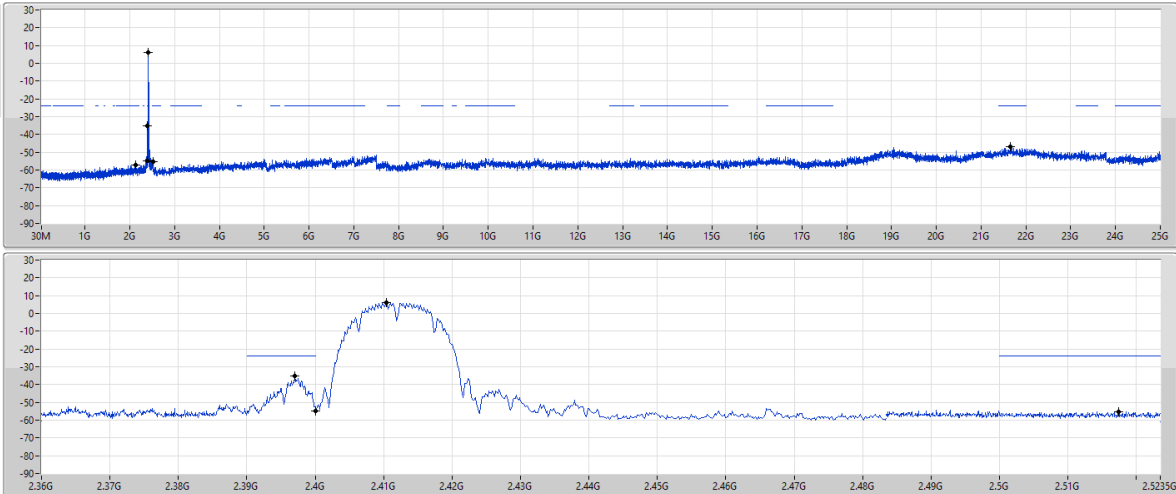
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2412MHz

15/02/2023

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
2.41035G	6.32	-23.68	2.12234G	-57.15	2.39704G	-35.12	2.4G	-54.94	2.51742G	-55.40	2.1651G	-46.69	1

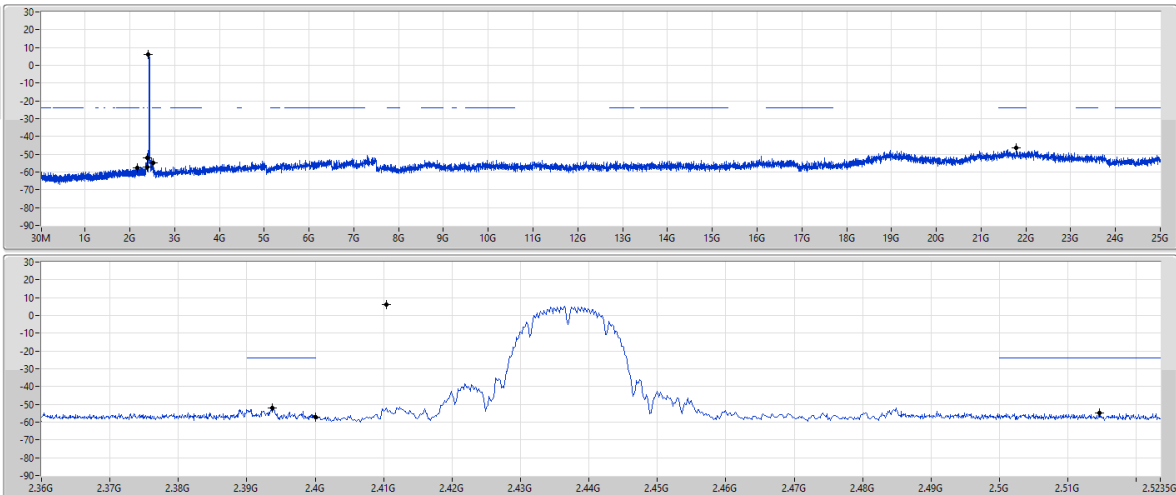
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

CSEndB

2437MHz

15/02/2023

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
2.41035G	6.32	-23.68	2.17477G	-57.46	2.39378G	-52.07	2.4G	-57.29	2.51462G	-54.94	2.179148G	-46.63	1

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

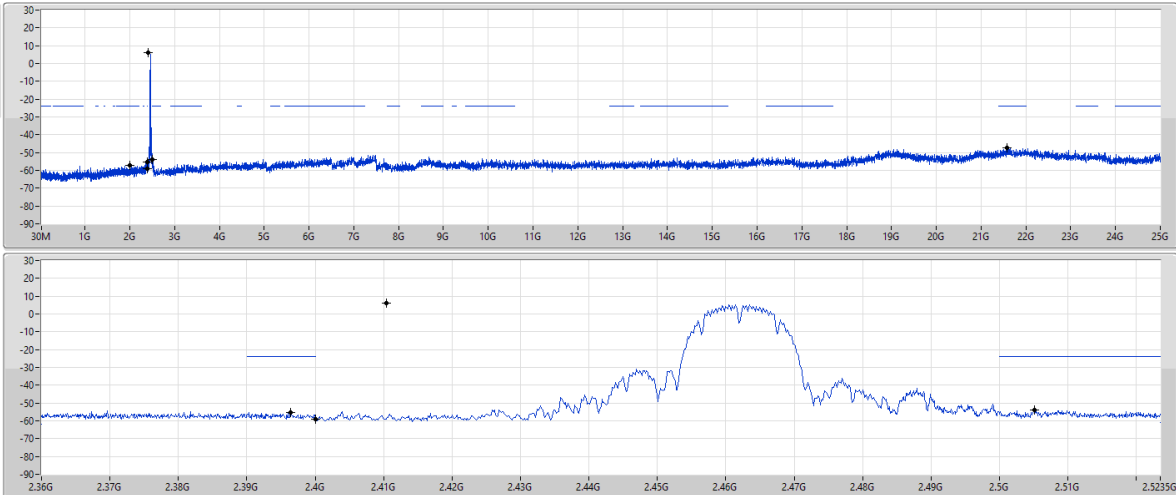
CSEndB

2462MHz

15/02/2023

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

Port 1



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
2.41035G	6.32	-23.68	2.00934G	-57.27	2.3964G	-55.32	2.4G	-59.01	2.5051G	-53.94	2.157233G	-47.35	1

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

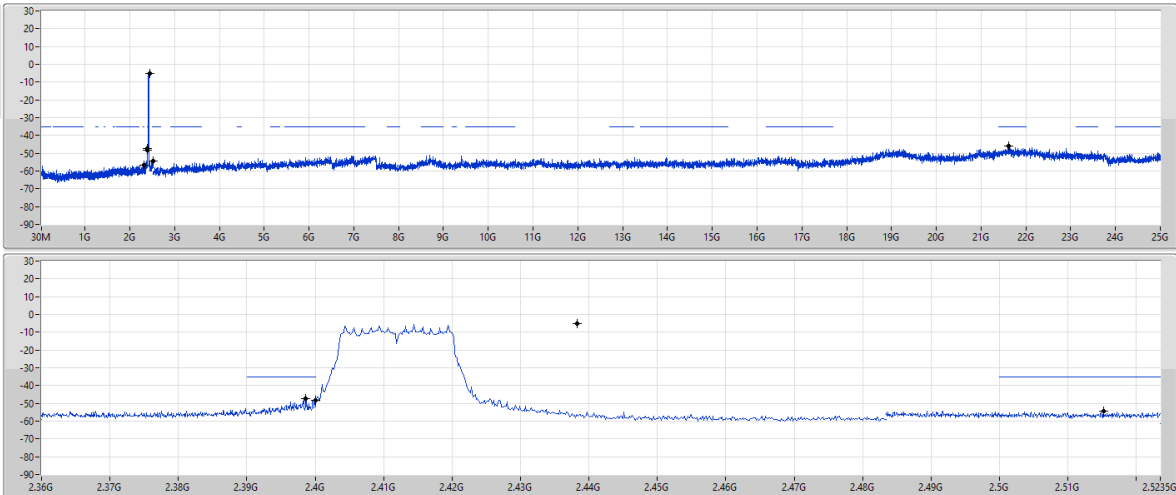
CSEndB

2412MHz

08/02/2023

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

Port 1



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	-5.37	-35.37	2.30991G	-56.62	2.39864G	-47.48	2.4G	-48.36	2.51518G	-54.59	2.161448G	-45.99	1

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

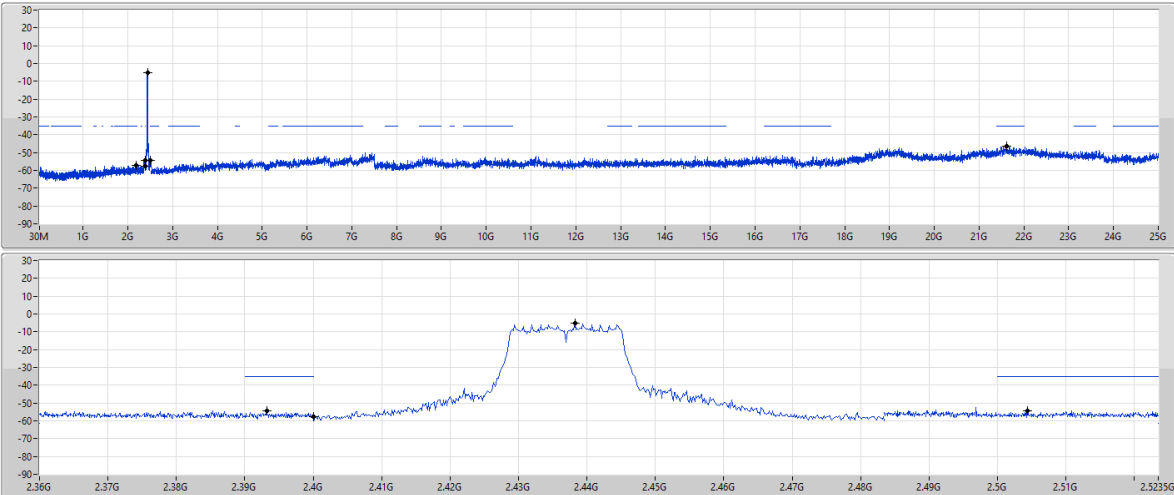
CSEndB

2437MHz

08/02/2023

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

Port 1



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	-5.37	-35.37	2.17943G	-57.06	2.3932G	-54.15	2.4G	-57.73	2.50438G	-54.19	21.62291G	-46.38	1

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

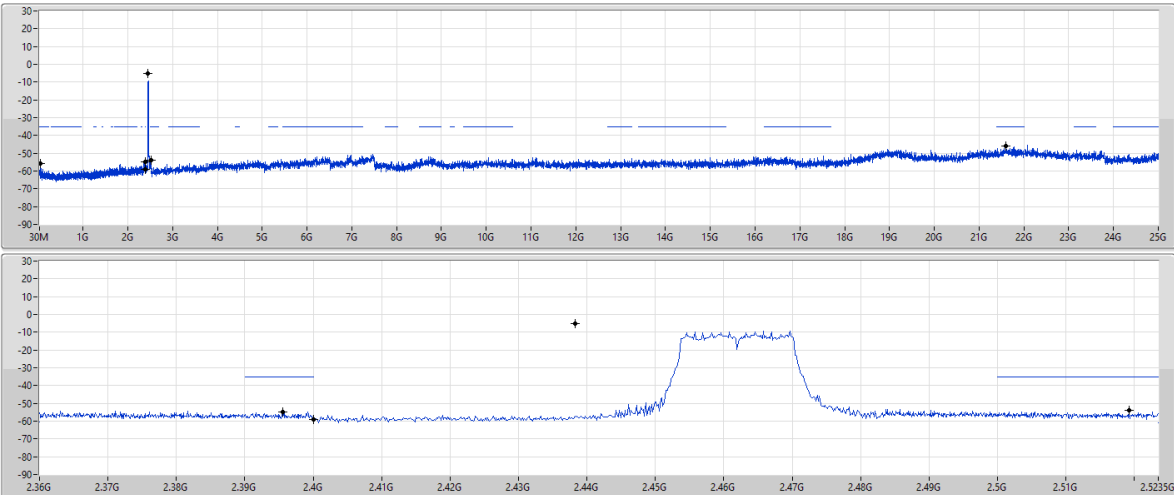
CSEndB

2462MHz

08/02/2023

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

Port 1

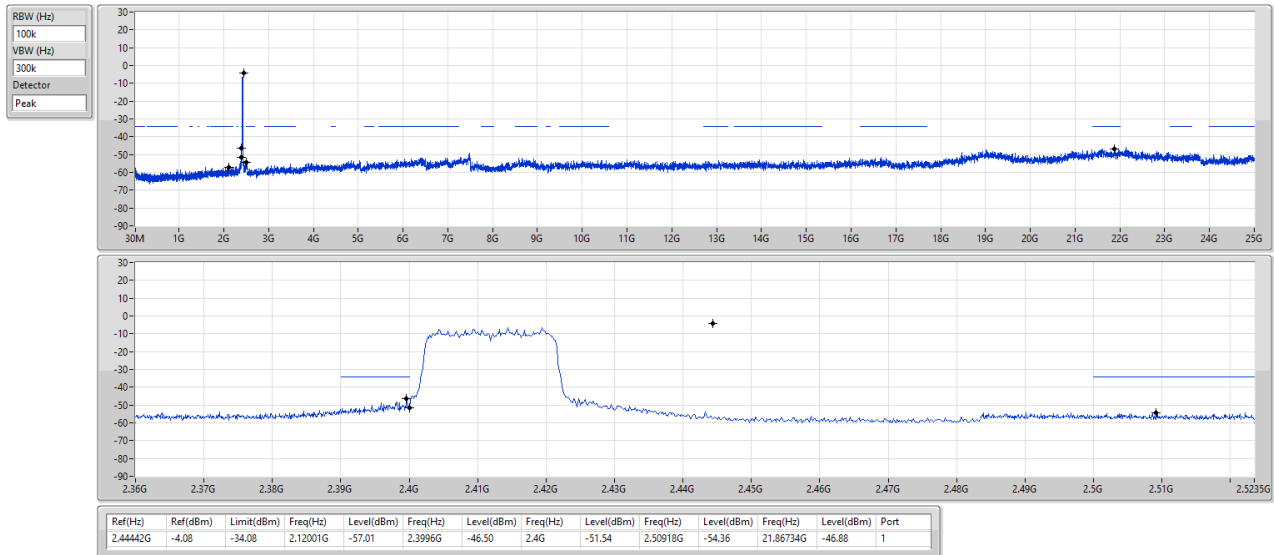


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43824G	-5.37	-35.37	47.48M	-55.57	2.39552G	-54.78	2.4G	-59.05	2.51918G	-53.80	21.60605G	-45.82	1

2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

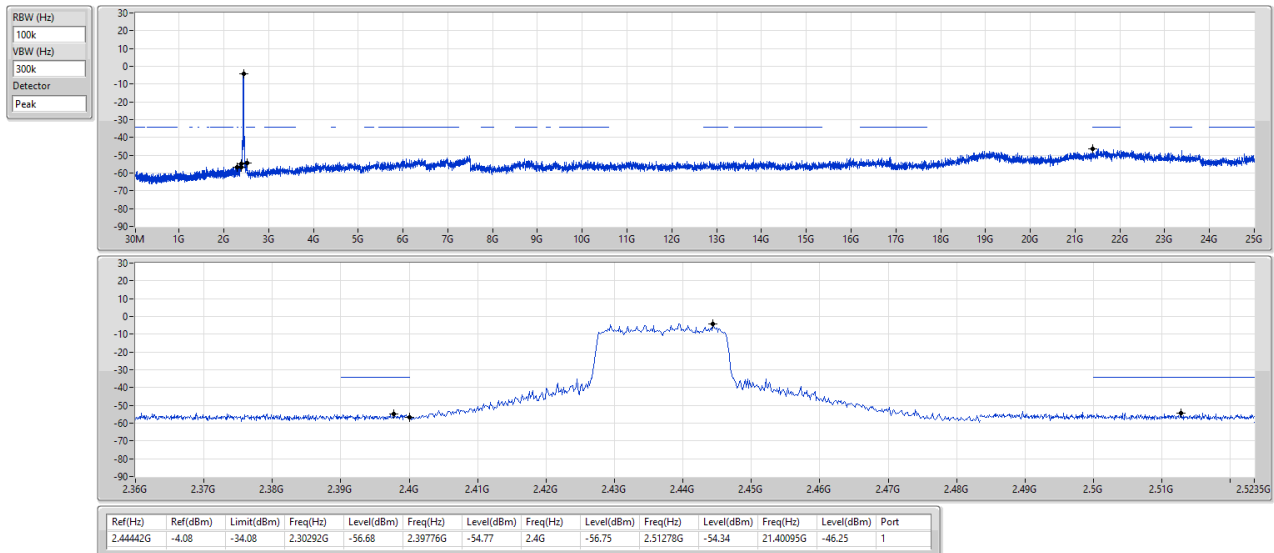
2412MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

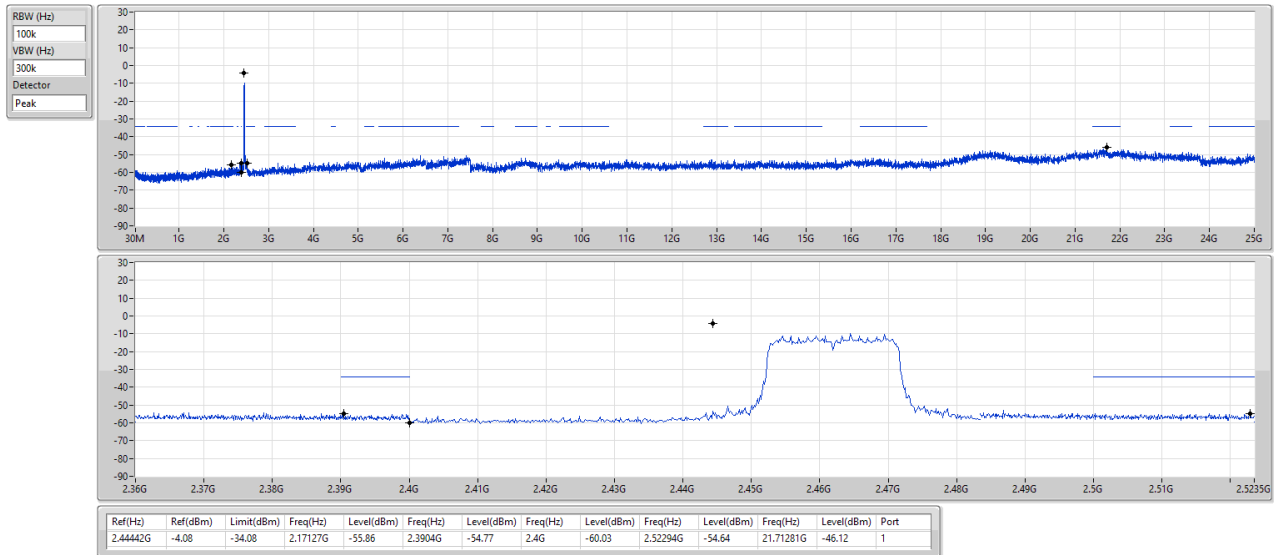
2437MHz



2.4-2.4835GHz_802.11ax_HEW20_Nss1,(MCS0)_1TX

CSEndB

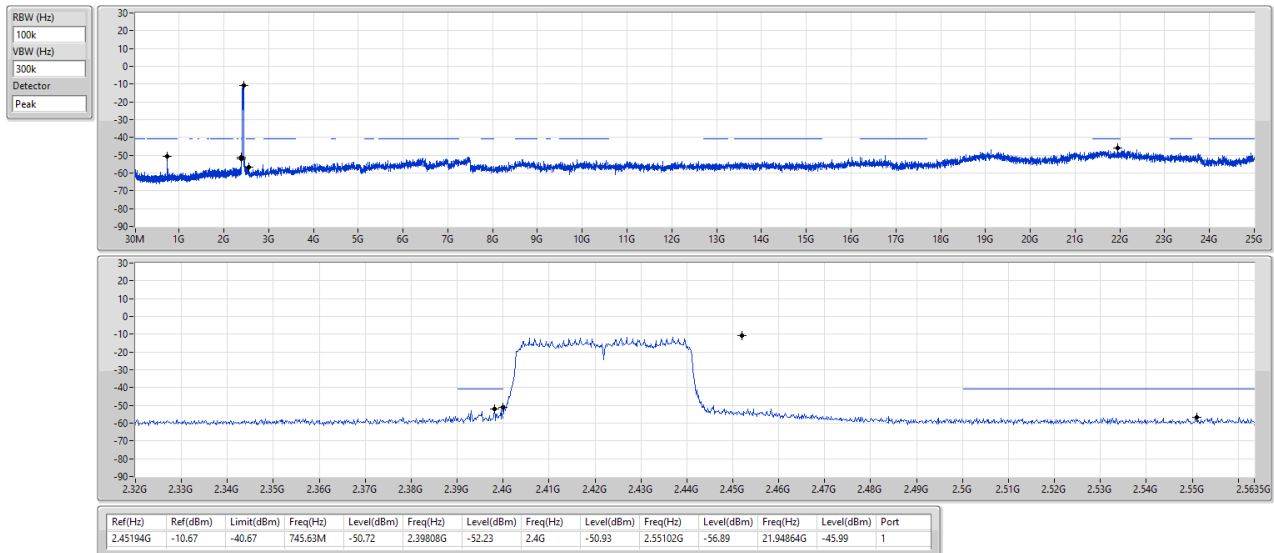
2462MHz



2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

2422MHz

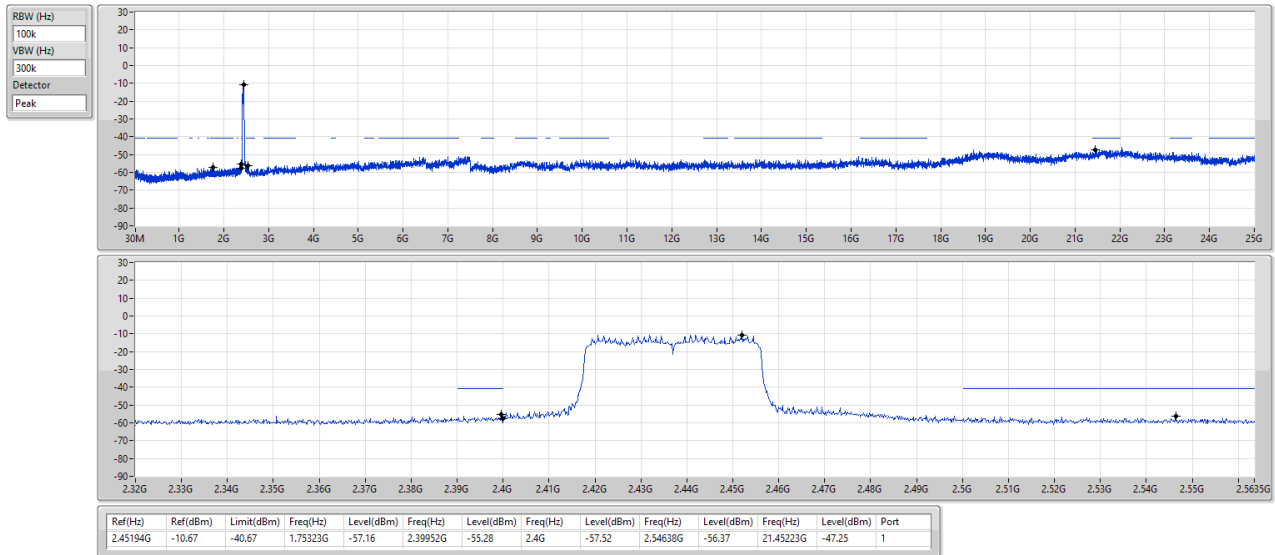


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

2437MHz

08/02/2023

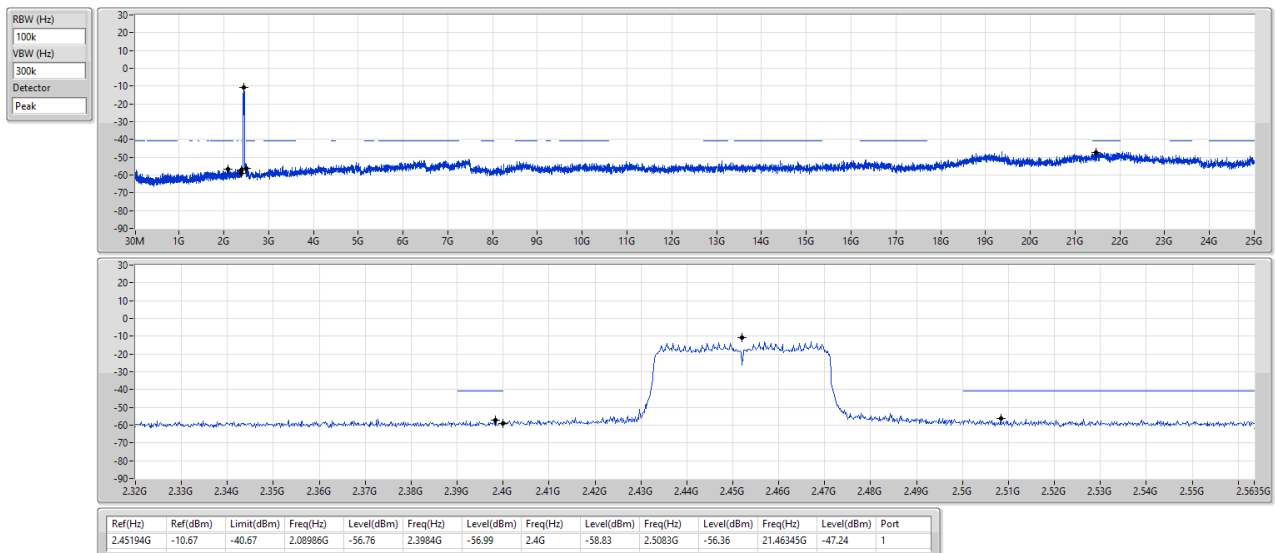


2.4-2.4835GHz_802.11ax_HEW40_Nss1,(MCS0)_1TX

CSEndB

2452MHz

08/02/2023





Summary

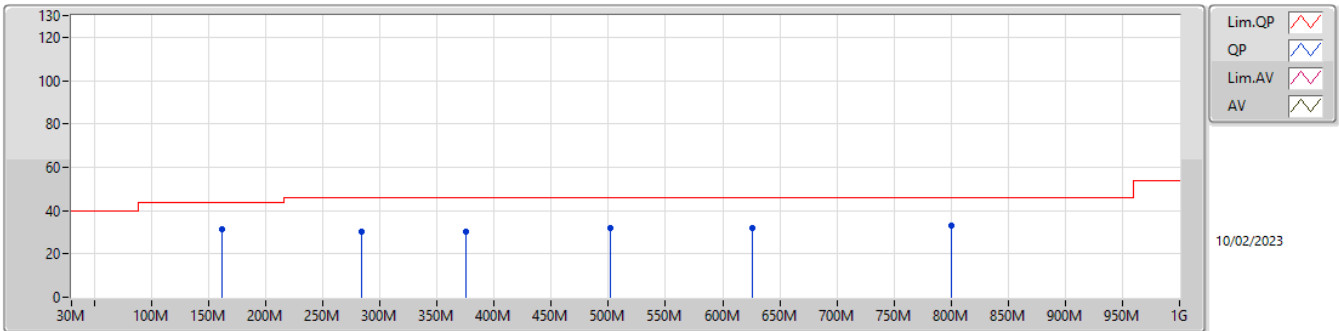
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	PK	482.02M	34.77	46.00	-11.23	3	Horizontal	0	3.00

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-
2437MHz	Pass	PK	161.92M	31.63	43.50	-11.87	3	Vertical	360	3.00
2437MHz	Pass	PK	284.14M	30.22	46.00	-15.78	3	Vertical	360	3.00
2437MHz	Pass	PK	375.32M	30.12	46.00	-15.88	3	Vertical	360	3.00
2437MHz	Pass	PK	501.42M	31.74	46.00	-14.26	3	Vertical	360	3.00
2437MHz	Pass	PK	625.58M	31.75	46.00	-14.25	3	Vertical	360	3.00
2437MHz	Pass	PK	800.18M	33.19	46.00	-12.81	3	Vertical	360	3.00
2437MHz	Pass	PK	125.06M	30.98	43.50	-12.52	3	Horizontal	0	3.00
2437MHz	Pass	PK	206.54M	31.92	43.50	-11.58	3	Horizontal	0	3.00
2437MHz	Pass	PK	301.6M	33.84	46.00	-12.16	3	Horizontal	0	3.00
2437MHz	Pass	PK	482.02M	34.77	46.00	-11.23	3	Horizontal	0	3.00
2437MHz	Pass	PK	875.84M	33.74	46.00	-12.26	3	Horizontal	0	3.00
2437MHz	Pass	PK	899.12M	33.65	46.00	-12.35	3	Horizontal	0	3.00

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

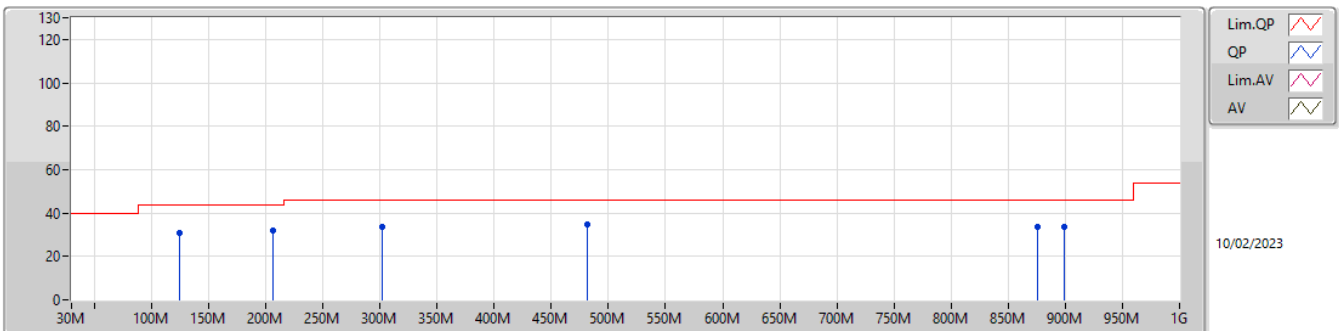
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	161.92M	31.63	43.50	-11.87	-19.54	3	Vertical	360	3.00	51.17	15.45	1.43	36.42
PK	284.14M	30.22	46.00	-15.78	-16.38	3	Vertical	360	3.00	46.60	18.03	2.02	36.43
PK	375.32M	30.12	46.00	-15.88	-14.15	3	Vertical	360	3.00	44.27	20.05	2.32	36.52
PK	501.42M	31.74	46.00	-14.26	-11.34	3	Vertical	360	3.00	43.08	23.08	2.56	36.98
PK	625.58M	31.75	46.00	-14.25	-8.75	3	Vertical	360	3.00	40.50	25.44	2.94	37.13
PK	800.18M	33.19	46.00	-12.81	-6.96	3	Vertical	360	3.00	40.15	27.22	3.30	37.48

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
PK	125.06M	30.98	43.50	-12.52	-18.56	3	Horizontal	0	3.00	49.54	16.83	1.19	36.58
PK	206.54M	31.92	43.50	-11.58	-20.33	3	Horizontal	0	3.00	52.25	14.30	1.67	36.30
PK	301.6M	33.84	46.00	-12.16	-15.96	3	Horizontal	0	3.00	49.80	18.37	2.08	36.41
PK	482.02M	34.77	46.00	-11.23	-11.57	3	Horizontal	0	3.00	46.34	22.81	2.48	36.86
PK	875.84M	33.74	46.00	-12.26	-5.85	3	Horizontal	0	3.00	39.59	28.25	3.50	37.60
PK	899.12M	33.65	46.00	-12.35	-5.94	3	Horizontal	0	3.00	39.59	28.22	3.44	37.60



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)_1TX	Pass	AV	2.4835G	52.53	54.00	-1.47	3	Vertical	142	1.58	-
802.11g_Nss1,(6Mbps)_1TX	Pass	PK	2.3872G	72.66	74.00	-1.34	3	Vertical	169	1.60	-
802.11ax HEW20_Nss1,(MCS0)_1TX	Pass	AV	2.4835G	52.94	54.00	-1.06	3	Vertical	171	1.50	-
802.11ax HEW40_Nss1,(MCS0)_1TX	Pass	AV	2.4842G	52.93	54.00	-1.07	3	Vertical	170	1.57	-

Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
802.11b_Nss1,(1Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.3862G	50.91	54.00	-3.09	3	Vertical	169	1.66	-
2412MHz	Pass	AV	2.4126G	105.87	Inf	-Inf	3	Vertical	169	1.66	-
2412MHz	Pass	PK	2.3864G	60.38	74.00	-13.62	3	Vertical	169	1.66	-
2412MHz	Pass	PK	2.4146G	108.56	Inf	-Inf	3	Vertical	169	1.66	-
2412MHz	Pass	AV	2.3872G	45.97	54.00	-8.03	3	Horizontal	184	2.82	-
2412MHz	Pass	AV	2.4112G	98.23	Inf	-Inf	3	Horizontal	184	2.82	-
2412MHz	Pass	PK	2.3882G	58.91	74.00	-15.09	3	Horizontal	184	2.82	-
2412MHz	Pass	PK	2.411G	100.83	Inf	-Inf	3	Horizontal	184	2.82	-
2412MHz	Pass	AV	4.82398G	32.46	54.00	-21.54	3	Vertical	211	1.50	-
2412MHz	Pass	PK	4.82419G	43.48	74.00	-30.52	3	Vertical	211	1.50	-
2412MHz	Pass	AV	4.82398G	31.11	54.00	-22.89	3	Horizontal	167	2.10	-
2412MHz	Pass	PK	4.8239G	43.12	74.00	-30.88	3	Horizontal	167	2.10	-
2437MHz	Pass	AV	2.3886G	44.81	54.00	-9.19	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.4362G	104.40	Inf	-Inf	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.4835G	44.87	54.00	-9.13	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.373G	57.91	74.00	-16.09	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.4362G	107.07	Inf	-Inf	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.4886G	58.10	74.00	-15.90	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.389G	43.89	54.00	-10.11	3	Horizontal	70	1.97	-
2437MHz	Pass	AV	2.4362G	97.67	Inf	-Inf	3	Horizontal	70	1.97	-
2437MHz	Pass	AV	2.4958G	44.48	54.00	-9.52	3	Horizontal	70	1.97	-
2437MHz	Pass	PK	2.379G	57.26	74.00	-16.74	3	Horizontal	70	1.97	-
2437MHz	Pass	PK	2.4362G	100.35	Inf	-Inf	3	Horizontal	70	1.97	-
2437MHz	Pass	PK	2.4878G	57.57	74.00	-16.43	3	Horizontal	70	1.97	-
2437MHz	Pass	AV	4.87394G	35.86	54.00	-18.14	3	Vertical	139	1.50	-
2437MHz	Pass	PK	4.87388G	43.68	74.00	-30.32	3	Vertical	139	1.50	-
2437MHz	Pass	AV	4.87394G	33.28	54.00	-20.72	3	Horizontal	158	1.60	-
2437MHz	Pass	PK	4.8839G	43.15	74.00	-30.85	3	Horizontal	158	1.60	-
2457MHz	Pass	AV	2.4578G	104.24	Inf	-Inf	3	Vertical	142	1.58	-
2457MHz	Pass	AV	2.4835G	52.53	54.00	-1.47	3	Vertical	142	1.58	-
2457MHz	Pass	PK	2.4578G	106.88	Inf	-Inf	3	Vertical	142	1.58	-
2457MHz	Pass	PK	2.4835G	60.54	74.00	-13.46	3	Vertical	142	1.58	-
2457MHz	Pass	AV	2.4578G	100.39	Inf	-Inf	3	Horizontal	66	1.50	-
2457MHz	Pass	AV	2.4835G	48.90	54.00	-5.10	3	Horizontal	66	1.50	-
2457MHz	Pass	PK	2.4578G	103.01	Inf	-Inf	3	Horizontal	66	1.50	-
2457MHz	Pass	PK	2.4835G	60.12	74.00	-13.88	3	Horizontal	66	1.50	-
2462MHz	Pass	AV	2.4612G	103.08	Inf	-Inf	3	Vertical	170	1.58	-
2462MHz	Pass	AV	2.4835G	52.27	54.00	-1.73	3	Vertical	170	1.58	-
2462MHz	Pass	PK	2.4628G	105.73	Inf	-Inf	3	Vertical	170	1.58	-
2462MHz	Pass	PK	2.4835G	60.88	74.00	-13.12	3	Vertical	170	1.58	-
2462MHz	Pass	AV	2.4612G	99.36	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	2.4835G	49.52	54.00	-4.48	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.461G	102.00	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.4878G	59.83	74.00	-14.17	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	4.92396G	33.42	54.00	-20.58	3	Vertical	114	1.00	-
2462MHz	Pass	PK	4.92387G	43.86	74.00	-30.14	3	Vertical	114	1.00	-
2462MHz	Pass	AV	4.924G	32.82	54.00	-21.18	3	Horizontal	165	2.97	-
2462MHz	Pass	PK	4.92388G	42.76	74.00	-31.24	3	Horizontal	165	2.97	-
802.11g_Nss1,(6Mbps)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	52.03	54.00	-1.97	3	Vertical	169	1.60	-
2412MHz	Pass	AV	2.4192G	97.56	Inf	-Inf	3	Vertical	169	1.60	-
2412MHz	Pass	PK	2.3872G	72.66	74.00	-1.34	3	Vertical	169	1.60	-
2412MHz	Pass	PK	2.419G	107.95	Inf	-Inf	3	Vertical	169	1.60	-
2412MHz	Pass	AV	2.3898G	46.13	54.00	-7.87	3	Horizontal	234	1.09	-
2412MHz	Pass	AV	2.4146G	89.57	Inf	-Inf	3	Horizontal	234	1.09	-
2412MHz	Pass	PK	2.3876G	63.64	74.00	-10.36	3	Horizontal	234	1.09	-
2412MHz	Pass	PK	2.4152G	100.05	Inf	-Inf	3	Horizontal	234	1.09	-
2412MHz	Pass	AV	4.82632G	27.56	54.00	-26.44	3	Vertical	176	1.50	-
2412MHz	Pass	PK	4.82581G	41.92	74.00	-32.08	3	Vertical	176	1.50	-
2412MHz	Pass	AV	4.83882G	27.74	54.00	-26.26	3	Horizontal	281	1.50	-

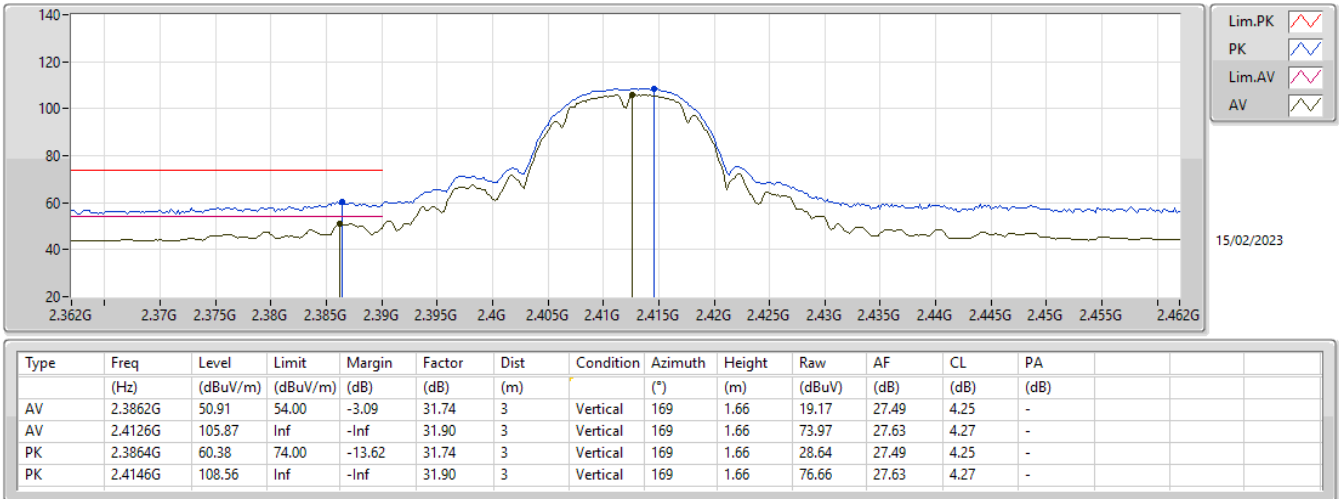
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2412MHz	Pass	PK	4.83666G	42.46	74.00	-31.54	3	Horizontal	281	1.50	-
2417MHz	Pass	AV	2.39G	50.50	54.00	-3.50	3	Vertical	170	1.62	-
2417MHz	Pass	AV	2.4244G	98.39	Inf	-Inf	3	Vertical	170	1.62	-
2417MHz	Pass	PK	2.3896G	72.59	74.00	-1.41	3	Vertical	170	1.62	-
2417MHz	Pass	PK	2.42G	108.60	Inf	-Inf	3	Vertical	170	1.62	-
2417MHz	Pass	AV	2.3898G	45.54	54.00	-8.46	3	Horizontal	233	1.10	-
2417MHz	Pass	AV	2.4146G	89.90	Inf	-Inf	3	Horizontal	233	1.10	-
2417MHz	Pass	PK	2.3896G	63.61	74.00	-10.39	3	Horizontal	233	1.10	-
2417MHz	Pass	PK	2.4138G	101.06	Inf	-Inf	3	Horizontal	233	1.10	-
2437MHz	Pass	AV	2.3898G	44.52	54.00	-9.48	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.429G	98.59	Inf	-Inf	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.4835G	44.96	54.00	-9.04	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.389G	59.40	74.00	-14.60	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.4334G	109.24	Inf	-Inf	3	Vertical	169	1.50	-
2437MHz	Pass	PK	2.4835G	61.81	74.00	-12.19	3	Vertical	169	1.50	-
2437MHz	Pass	AV	2.3866G	43.86	54.00	-10.14	3	Horizontal	69	1.88	-
2437MHz	Pass	AV	2.4442G	91.62	Inf	-Inf	3	Horizontal	69	1.88	-
2437MHz	Pass	AV	2.4962G	44.49	54.00	-9.51	3	Horizontal	69	1.88	-
2437MHz	Pass	PK	2.373G	57.50	74.00	-16.50	3	Horizontal	69	1.88	-
2437MHz	Pass	PK	2.4394G	102.75	Inf	-Inf	3	Horizontal	69	1.88	-
2437MHz	Pass	PK	2.4846G	58.22	74.00	-15.78	3	Horizontal	69	1.88	-
2437MHz	Pass	AV	4.87288G	27.84	54.00	-26.16	3	Vertical	126	2.22	-
2437MHz	Pass	PK	4.8727G	41.94	74.00	-32.06	3	Vertical	126	2.22	-
2437MHz	Pass	AV	4.85912G	27.67	54.00	-26.33	3	Horizontal	308	1.50	-
2437MHz	Pass	PK	4.87352G	41.90	74.00	-32.10	3	Horizontal	308	1.50	-
2457MHz	Pass	AV	2.4596G	96.41	Inf	-Inf	3	Vertical	170	1.00	-
2457MHz	Pass	AV	2.4835G	51.88	54.00	-2.12	3	Vertical	170	1.00	-
2457MHz	Pass	PK	2.454G	107.56	Inf	-Inf	3	Vertical	170	1.00	-
2457MHz	Pass	PK	2.4844G	71.64	74.00	-2.36	3	Vertical	170	1.00	-
2457MHz	Pass	AV	2.4592G	92.71	Inf	-Inf	3	Horizontal	66	1.50	-
2457MHz	Pass	AV	2.4836G	48.83	54.00	-5.17	3	Horizontal	66	1.50	-
2457MHz	Pass	PK	2.4596G	104.41	Inf	-Inf	3	Horizontal	66	1.50	-
2457MHz	Pass	PK	2.4835G	68.35	74.00	-5.65	3	Horizontal	66	1.50	-
2462MHz	Pass	AV	2.4648G	95.38	Inf	-Inf	3	Vertical	170	1.55	-
2462MHz	Pass	AV	2.4835G	52.59	54.00	-1.41	3	Vertical	170	1.55	-
2462MHz	Pass	PK	2.4642G	106.32	Inf	-Inf	3	Vertical	170	1.55	-
2462MHz	Pass	PK	2.4835G	72.20	74.00	-1.80	3	Vertical	170	1.55	-
2462MHz	Pass	AV	2.4594G	91.50	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	2.4835G	49.21	54.00	-4.79	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.4646G	103.09	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.484G	67.36	74.00	-6.64	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	4.92231G	28.38	54.00	-25.62	3	Vertical	204	1.50	-
2462MHz	Pass	PK	4.92153G	42.18	74.00	-31.82	3	Vertical	204	1.50	-
2462MHz	Pass	AV	4.9153G	28.18	54.00	-25.82	3	Horizontal	353	1.50	-
2462MHz	Pass	PK	4.91632G	42.14	74.00	-31.86	3	Horizontal	353	1.50	-
802.11ax HEW20_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	AV	2.39G	50.81	54.00	-3.19	3	Vertical	170	1.50	-
2412MHz	Pass	AV	2.42G	95.87	Inf	-Inf	3	Vertical	170	1.50	-
2412MHz	Pass	PK	2.3898G	69.19	74.00	-4.81	3	Vertical	170	1.50	-
2412MHz	Pass	PK	2.419G	109.12	Inf	-Inf	3	Vertical	170	1.50	-
2412MHz	Pass	AV	2.39G	45.70	54.00	-8.30	3	Horizontal	232	1.08	-
2412MHz	Pass	AV	2.4146G	88.13	Inf	-Inf	3	Horizontal	232	1.08	-
2412MHz	Pass	PK	2.3888G	63.09	74.00	-10.91	3	Horizontal	232	1.08	-
2412MHz	Pass	PK	2.4086G	101.18	Inf	-Inf	3	Horizontal	232	1.08	-
2412MHz	Pass	AV	4.83744G	27.62	54.00	-26.38	3	Vertical	1	1.09	-
2412MHz	Pass	PK	4.82928G	41.64	74.00	-32.36	3	Vertical	1	1.09	-
2412MHz	Pass	AV	4.8363G	27.66	54.00	-26.34	3	Horizontal	264	1.91	-
2412MHz	Pass	PK	4.82082G	41.50	74.00	-32.50	3	Horizontal	264	1.91	-
2417MHz	Pass	AV	2.39G	50.43	54.00	-3.57	3	Vertical	172	1.61	-
2417MHz	Pass	AV	2.4246G	96.75	Inf	-Inf	3	Vertical	172	1.61	-
2417MHz	Pass	PK	2.3876G	71.54	74.00	-2.46	3	Vertical	172	1.61	-
2417MHz	Pass	PK	2.4238G	110.41	Inf	-Inf	3	Vertical	172	1.61	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2417MHz	Pass	AV	2.39G	45.81	54.00	-8.19	3	Horizontal	232	1.08	-
2417MHz	Pass	AV	2.4142G	89.14	Inf	-Inf	3	Horizontal	232	1.08	-
2417MHz	Pass	PK	2.3888G	63.98	74.00	-10.02	3	Horizontal	232	1.08	-
2417MHz	Pass	PK	2.4144G	102.10	Inf	-Inf	3	Horizontal	232	1.08	-
2437MHz	Pass	AV	2.389G	44.24	54.00	-9.76	3	Vertical	170	1.53	-
2437MHz	Pass	AV	2.429G	96.28	Inf	-Inf	3	Vertical	170	1.53	-
2437MHz	Pass	AV	2.4998G	44.80	54.00	-9.20	3	Vertical	170	1.53	-
2437MHz	Pass	PK	2.3778G	57.45	74.00	-16.55	3	Vertical	170	1.53	-
2437MHz	Pass	PK	2.435G	109.78	Inf	-Inf	3	Vertical	170	1.53	-
2437MHz	Pass	PK	2.497G	58.75	74.00	-15.25	3	Vertical	170	1.53	-
2437MHz	Pass	AV	2.3866G	43.85	54.00	-10.15	3	Horizontal	65	1.54	-
2437MHz	Pass	AV	2.4398G	89.48	Inf	-Inf	3	Horizontal	65	1.54	-
2437MHz	Pass	AV	2.499G	44.45	54.00	-9.55	3	Horizontal	65	1.54	-
2437MHz	Pass	PK	2.365G	58.25	74.00	-15.75	3	Horizontal	65	1.54	-
2437MHz	Pass	PK	2.4446G	102.06	Inf	-Inf	3	Horizontal	65	1.54	-
2437MHz	Pass	PK	2.4958G	57.99	74.00	-16.01	3	Horizontal	65	1.54	-
2437MHz	Pass	AV	4.88756G	27.63	54.00	-26.37	3	Vertical	117	2.44	-
2437MHz	Pass	PK	4.86806G	41.92	74.00	-32.08	3	Vertical	117	2.44	-
2437MHz	Pass	AV	4.8878G	27.66	54.00	-26.34	3	Horizontal	300	1.25	-
2437MHz	Pass	PK	4.8635G	41.38	74.00	-32.62	3	Horizontal	300	1.25	-
2457MHz	Pass	AV	2.4648G	96.30	Inf	-Inf	3	Vertical	170	1.50	-
2457MHz	Pass	AV	2.4835G	52.46	54.00	-1.54	3	Vertical	170	1.50	-
2457MHz	Pass	PK	2.4638G	110.06	Inf	-Inf	3	Vertical	170	1.50	-
2457MHz	Pass	PK	2.484G	71.42	74.00	-2.58	3	Vertical	170	1.50	-
2457MHz	Pass	AV	2.4594G	93.18	Inf	-Inf	3	Horizontal	64	1.52	-
2457MHz	Pass	AV	2.4835G	49.08	54.00	-4.92	3	Horizontal	64	1.52	-
2457MHz	Pass	PK	2.46G	106.35	Inf	-Inf	3	Horizontal	64	1.52	-
2457MHz	Pass	PK	2.4838G	68.28	74.00	-5.72	3	Horizontal	64	1.52	-
2462MHz	Pass	AV	2.4646G	93.34	Inf	-Inf	3	Vertical	171	1.50	-
2462MHz	Pass	AV	2.4835G	52.94	54.00	-1.06	3	Vertical	171	1.50	-
2462MHz	Pass	PK	2.4638G	106.88	Inf	-Inf	3	Vertical	171	1.50	-
2462MHz	Pass	PK	2.4844G	71.96	74.00	-2.04	3	Vertical	171	1.50	-
2462MHz	Pass	AV	2.4644G	89.96	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	2.4835G	49.13	54.00	-4.87	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.4688G	103.93	Inf	-Inf	3	Horizontal	65	1.50	-
2462MHz	Pass	PK	2.4838G	67.69	74.00	-6.31	3	Horizontal	65	1.50	-
2462MHz	Pass	AV	4.92178G	28.15	54.00	-25.85	3	Vertical	248	2.84	-
2462MHz	Pass	PK	4.9156G	41.94	74.00	-32.06	3	Vertical	248	2.84	-
2462MHz	Pass	AV	4.9177G	28.19	54.00	-25.81	3	Horizontal	128	1.19	-
2462MHz	Pass	PK	4.91734G	41.68	74.00	-32.32	3	Horizontal	128	1.19	-
802.11ax HEW40_Nss1,(MCS0)_1TX	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	AV	2.3896G	52.48	54.00	-1.52	3	Vertical	169	1.50	-
2422MHz	Pass	AV	2.4276G	91.50	Inf	-Inf	3	Vertical	169	1.50	-
2422MHz	Pass	AV	2.494G	46.08	54.00	-7.92	3	Vertical	169	1.50	-
2422MHz	Pass	PK	2.376G	64.66	74.00	-9.34	3	Vertical	169	1.50	-
2422MHz	Pass	PK	2.4248G	104.34	Inf	-Inf	3	Vertical	169	1.50	-
2422MHz	Pass	PK	2.4952G	58.46	74.00	-15.54	3	Vertical	169	1.50	-
2422MHz	Pass	AV	2.3856G	46.80	54.00	-7.20	3	Horizontal	157	1.97	-
2422MHz	Pass	AV	2.4272G	84.38	Inf	-Inf	3	Horizontal	157	1.97	-
2422MHz	Pass	AV	2.4956G	45.95	54.00	-8.05	3	Horizontal	157	1.97	-
2422MHz	Pass	PK	2.3852G	58.32	74.00	-15.68	3	Horizontal	157	1.97	-
2422MHz	Pass	PK	2.4272G	96.57	Inf	-Inf	3	Horizontal	157	1.97	-
2422MHz	Pass	PK	2.4876G	57.35	74.00	-16.65	3	Horizontal	157	1.97	-
2422MHz	Pass	AV	4.85804G	29.32	54.00	-24.68	3	Vertical	276	2.56	-
2422MHz	Pass	PK	4.8542G	41.55	74.00	-32.45	3	Vertical	276	2.56	-
2422MHz	Pass	AV	4.8551G	29.29	54.00	-24.71	3	Horizontal	351	2.48	-
2422MHz	Pass	PK	4.83248G	41.41	74.00	-32.59	3	Horizontal	351	2.48	-
2427MHz	Pass	AV	2.3894G	52.86	54.00	-1.14	3	Vertical	170	1.60	-
2427MHz	Pass	AV	2.4234G	93.94	Inf	-Inf	3	Vertical	170	1.60	-
2427MHz	Pass	AV	2.4862G	46.20	54.00	-7.80	3	Vertical	170	1.60	-
2427MHz	Pass	PK	2.3894G	66.38	74.00	-7.62	3	Vertical	170	1.60	-
2427MHz	Pass	PK	2.421G	106.42	Inf	-Inf	3	Vertical	170	1.60	-

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2427MHz	Pass	PK	2.4846G	59.24	74.00	-14.76	3	Vertical	170	1.60	-
2427MHz	Pass	AV	2.3894G	46.02	54.00	-7.98	3	Horizontal	67	1.57	-
2427MHz	Pass	AV	2.4426G	86.83	Inf	-Inf	3	Horizontal	67	1.57	-
2427MHz	Pass	AV	2.4835G	46.11	54.00	-7.89	3	Horizontal	67	1.57	-
2427MHz	Pass	PK	2.3814G	58.31	74.00	-15.69	3	Horizontal	67	1.57	-
2427MHz	Pass	PK	2.4334G	98.52	Inf	-Inf	3	Horizontal	67	1.57	-
2427MHz	Pass	PK	2.4918G	57.83	74.00	-16.17	3	Horizontal	67	1.57	-
2437MHz	Pass	AV	2.3898G	52.26	54.00	-1.74	3	Vertical	170	1.57	-
2437MHz	Pass	AV	2.4218G	94.39	Inf	-Inf	3	Vertical	170	1.57	-
2437MHz	Pass	AV	2.4842G	52.93	54.00	-1.07	3	Vertical	170	1.57	-
2437MHz	Pass	PK	2.3882G	68.17	74.00	-5.83	3	Vertical	170	1.57	-
2437MHz	Pass	PK	2.4222G	107.15	Inf	-Inf	3	Vertical	170	1.57	-
2437MHz	Pass	PK	2.4846G	67.72	74.00	-6.28	3	Vertical	170	1.57	-
2437MHz	Pass	AV	2.3874G	45.77	54.00	-8.23	3	Horizontal	65	1.50	-
2437MHz	Pass	AV	2.453G	88.53	Inf	-Inf	3	Horizontal	65	1.50	-
2437MHz	Pass	AV	2.4835G	50.43	54.00	-3.57	3	Horizontal	65	1.50	-
2437MHz	Pass	PK	2.359G	57.80	74.00	-16.20	3	Horizontal	65	1.50	-
2437MHz	Pass	PK	2.4522G	100.94	Inf	-Inf	3	Horizontal	65	1.50	-
2437MHz	Pass	PK	2.4835G	65.09	74.00	-8.91	3	Horizontal	65	1.50	-
2437MHz	Pass	AV	4.86776G	29.11	54.00	-24.89	3	Vertical	161	2.92	-
2437MHz	Pass	PK	4.86272G	41.95	74.00	-32.05	3	Vertical	161	2.92	-
2437MHz	Pass	AV	4.8701G	29.53	54.00	-24.47	3	Horizontal	69	2.65	-
2437MHz	Pass	PK	4.86584G	42.14	74.00	-31.86	3	Horizontal	69	2.65	-
2447MHz	Pass	AV	2.3882G	45.62	54.00	-8.38	3	Vertical	170	1.50	-
2447MHz	Pass	AV	2.431G	90.22	Inf	-Inf	3	Vertical	170	1.50	-
2447MHz	Pass	AV	2.4835G	52.40	54.00	-1.60	3	Vertical	170	1.50	-
2447MHz	Pass	PK	2.3886G	57.79	74.00	-16.21	3	Vertical	170	1.50	-
2447MHz	Pass	PK	2.4314G	101.95	Inf	-Inf	3	Vertical	170	1.50	-
2447MHz	Pass	PK	2.4842G	65.13	74.00	-8.87	3	Vertical	170	1.50	-
2447MHz	Pass	AV	2.3818G	45.33	54.00	-8.67	3	Horizontal	66	1.50	-
2447MHz	Pass	AV	2.4622G	85.56	Inf	-Inf	3	Horizontal	66	1.50	-
2447MHz	Pass	AV	2.4835G	49.29	54.00	-4.71	3	Horizontal	66	1.50	-
2447MHz	Pass	PK	2.3774G	57.82	74.00	-16.18	3	Horizontal	66	1.50	-
2447MHz	Pass	PK	2.4622G	98.83	Inf	-Inf	3	Horizontal	66	1.50	-
2447MHz	Pass	PK	2.4846G	61.81	74.00	-12.19	3	Horizontal	66	1.50	-
2452MHz	Pass	AV	2.3856G	45.78	54.00	-8.22	3	Vertical	171	1.50	-
2452MHz	Pass	AV	2.4688G	89.65	Inf	-Inf	3	Vertical	171	1.50	-
2452MHz	Pass	AV	2.4844G	52.60	54.00	-1.40	3	Vertical	171	1.50	-
2452MHz	Pass	PK	2.3812G	57.48	74.00	-16.52	3	Vertical	171	1.50	-
2452MHz	Pass	PK	2.4372G	101.77	Inf	-Inf	3	Vertical	171	1.50	-
2452MHz	Pass	PK	2.484G	64.70	74.00	-9.30	3	Vertical	171	1.50	-
2452MHz	Pass	AV	2.3804G	45.57	54.00	-8.43	3	Horizontal	65	1.50	-
2452MHz	Pass	AV	2.4688G	85.83	Inf	-Inf	3	Horizontal	65	1.50	-
2452MHz	Pass	AV	2.484G	49.74	54.00	-4.26	3	Horizontal	65	1.50	-
2452MHz	Pass	PK	2.358G	57.19	74.00	-16.81	3	Horizontal	65	1.50	-
2452MHz	Pass	PK	2.4576G	99.04	Inf	-Inf	3	Horizontal	65	1.50	-
2452MHz	Pass	PK	2.484G	61.25	74.00	-12.75	3	Horizontal	65	1.50	-
2452MHz	Pass	AV	4.9121G	29.52	54.00	-24.48	3	Vertical	177	1.97	-
2452MHz	Pass	PK	4.91582G	41.45	74.00	-32.55	3	Vertical	177	1.97	-
2452MHz	Pass	AV	4.91114G	29.42	54.00	-24.58	3	Horizontal	73	2.91	-
2452MHz	Pass	PK	4.904G	42.06	74.00	-31.94	3	Horizontal	73	2.91	-

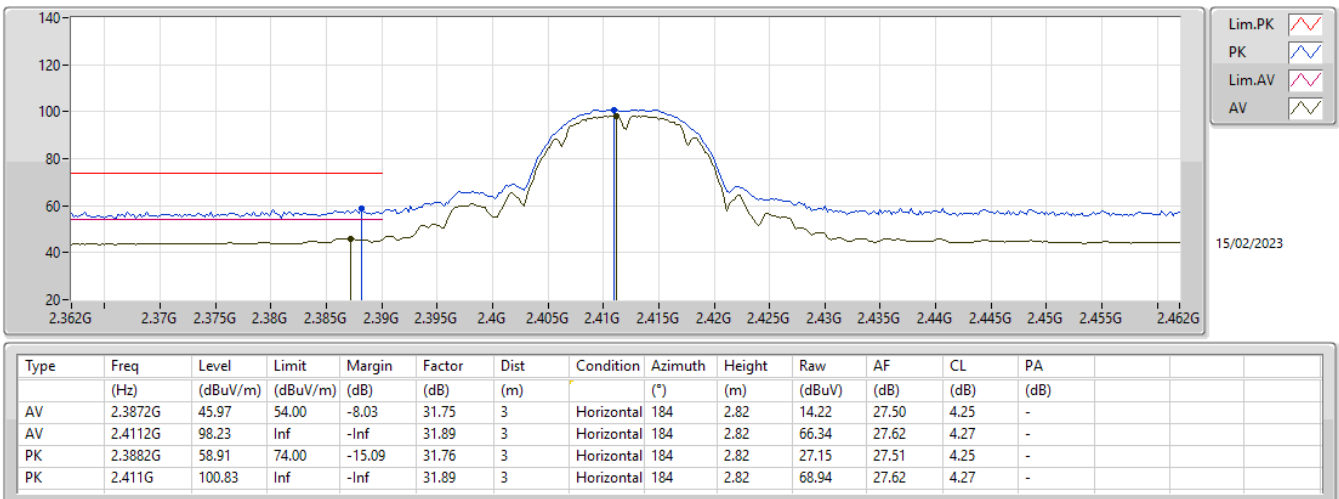
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



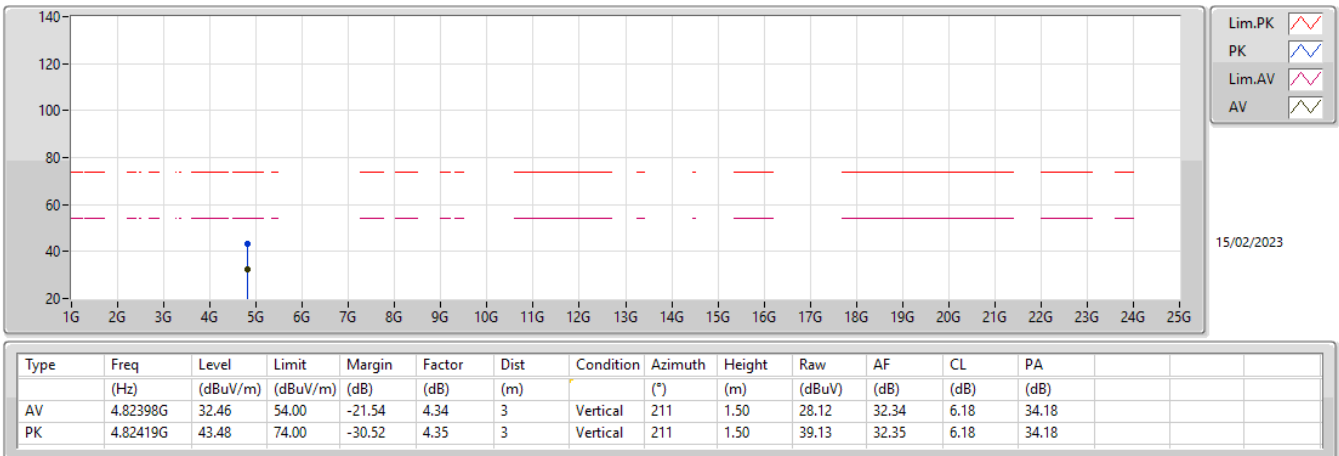
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



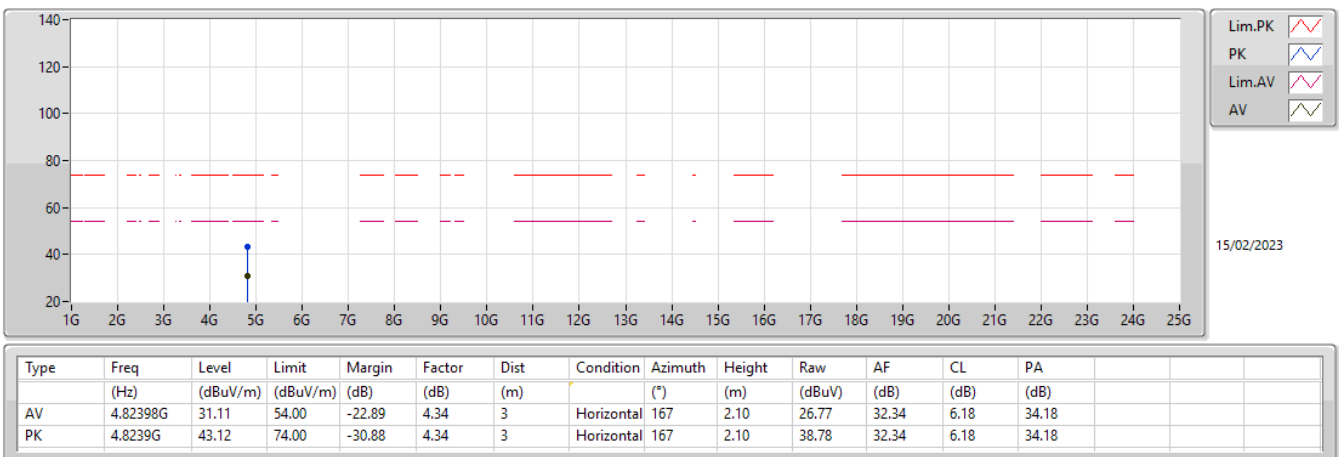
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



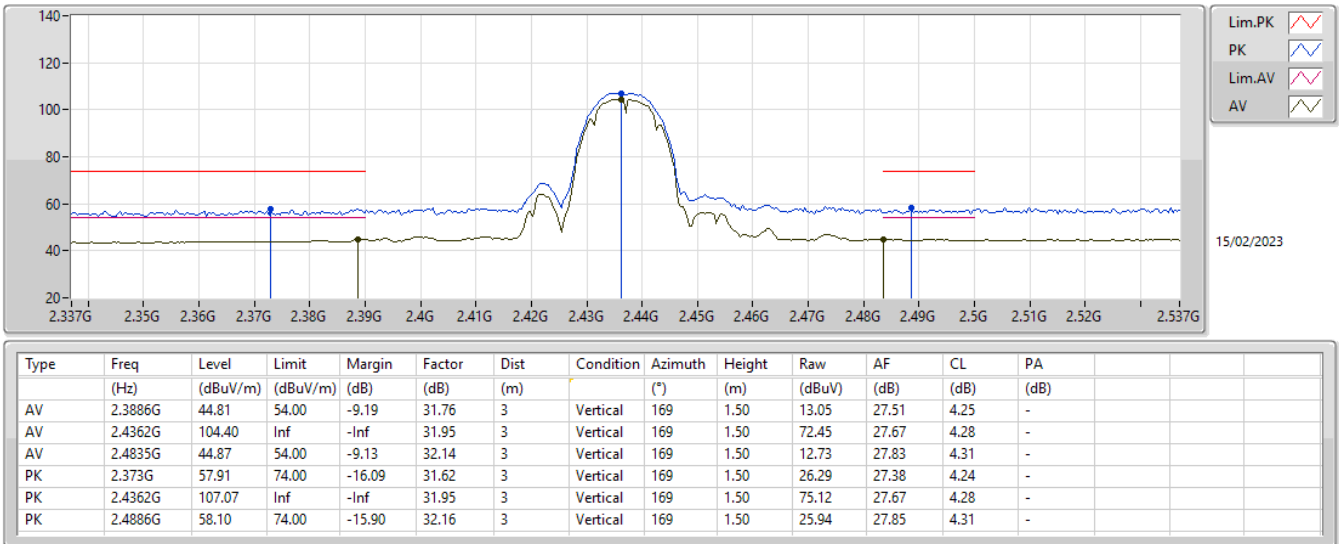
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2412MHz_TX



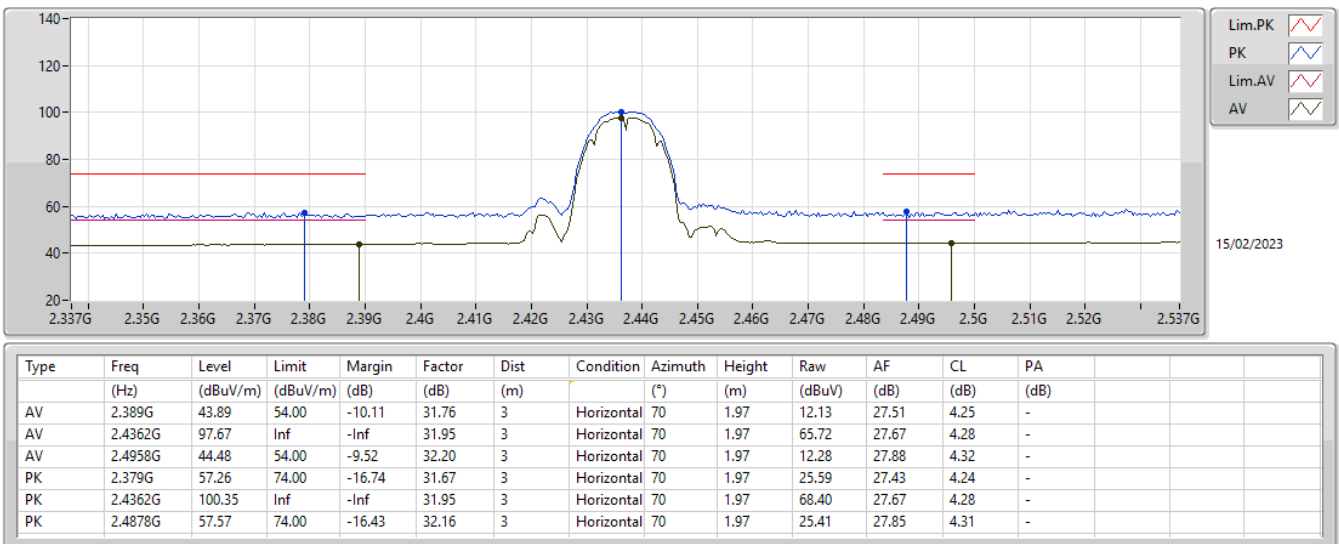
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



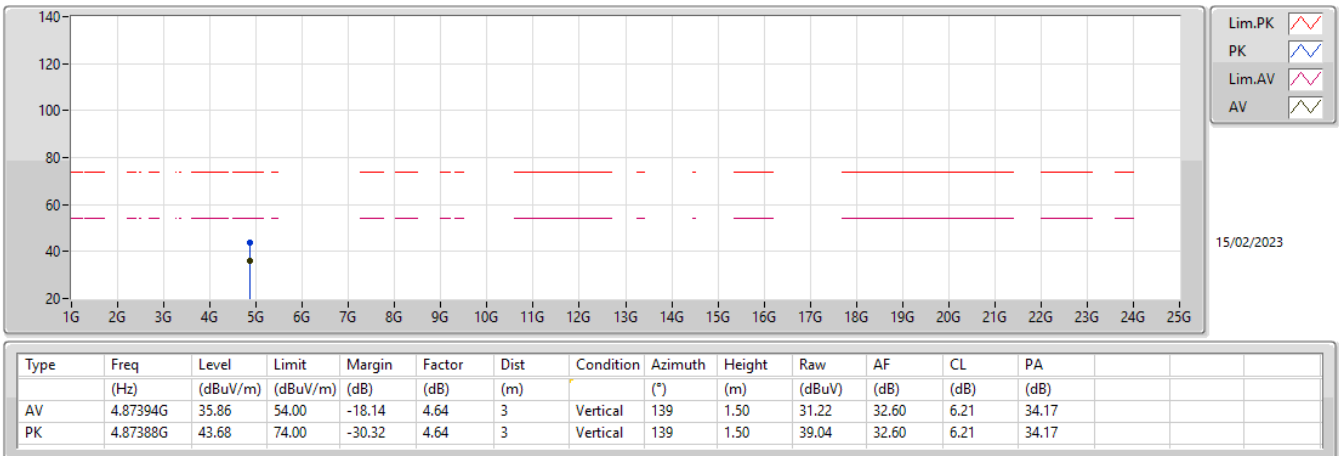
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



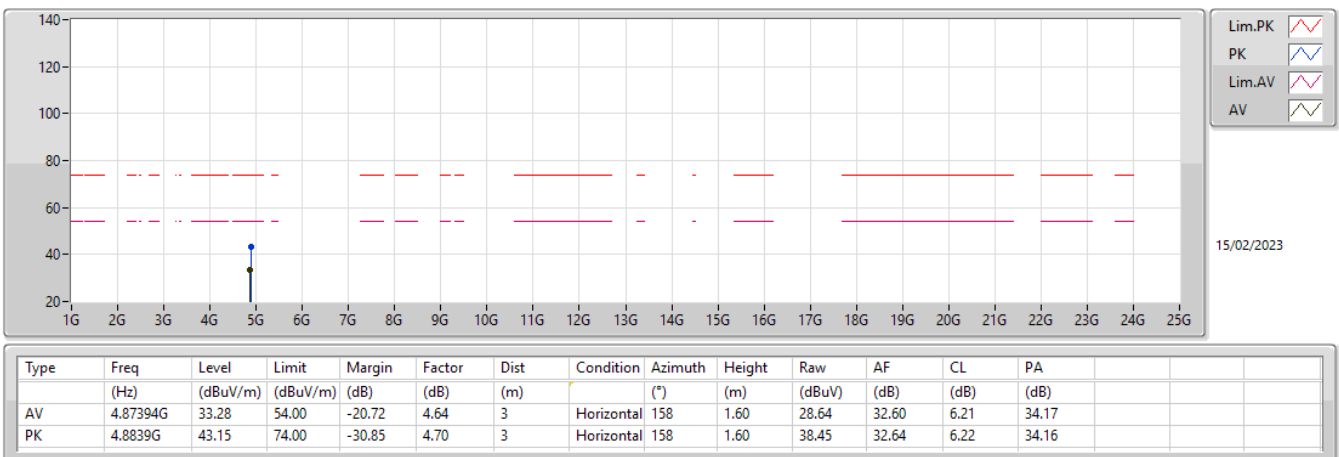
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



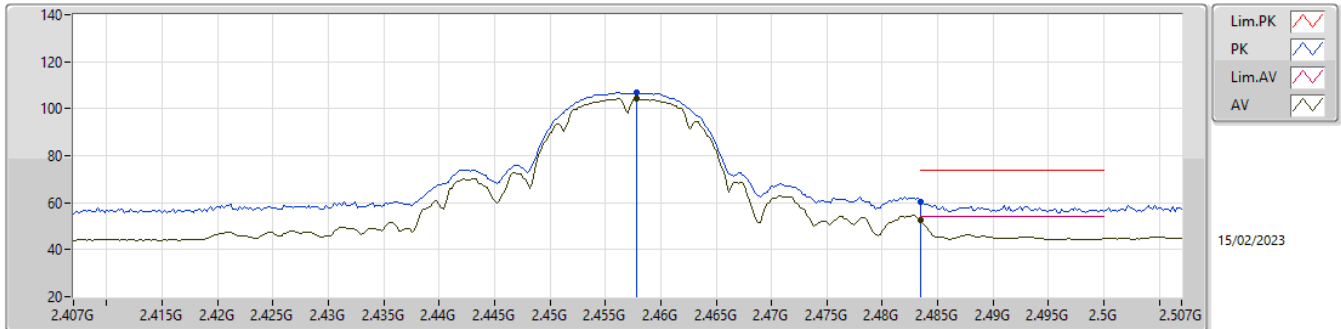
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

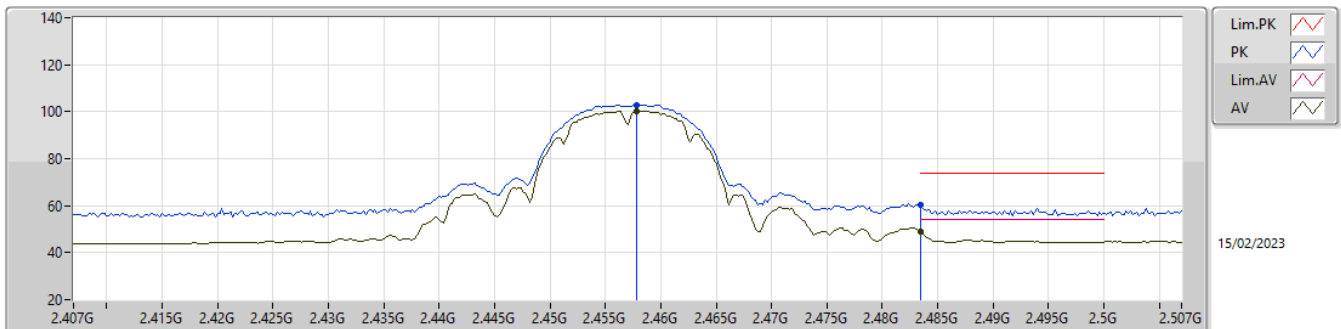
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4578G	104.24	Inf	-Inf	32.02	3	Vertical	142	1.58	72.22	27.73	4.29	-
AV	2.4835G	52.53	54.00	-1.47	32.14	3	Vertical	142	1.58	20.39	27.83	4.31	-
PK	2.4578G	106.88	Inf	-Inf	32.02	3	Vertical	142	1.58	74.86	27.73	4.29	-
PK	2.4835G	60.54	74.00	-13.46	32.14	3	Vertical	142	1.58	28.40	27.83	4.31	-

2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

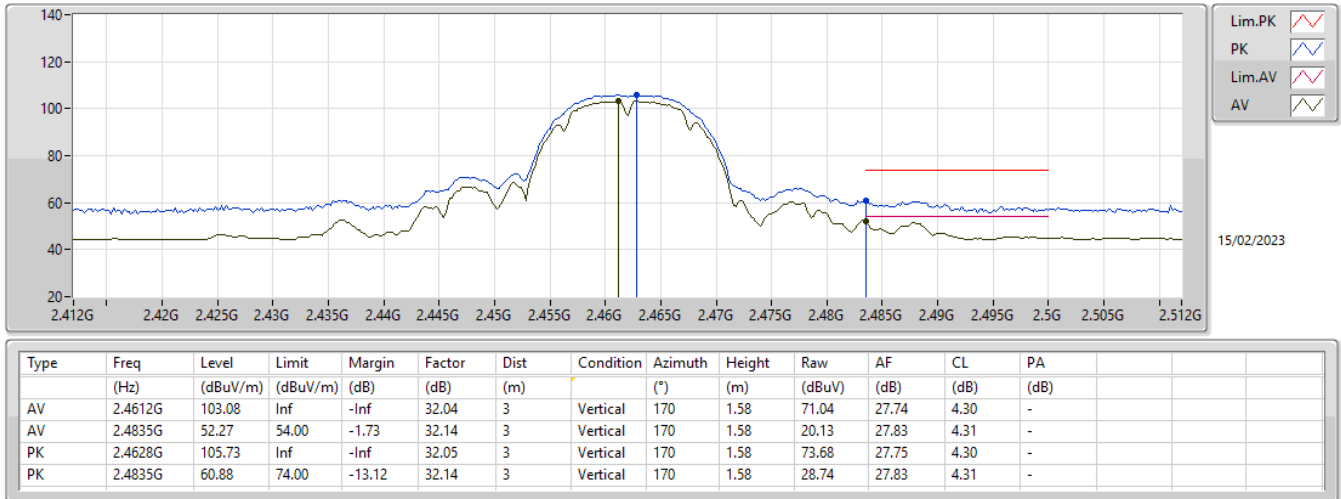
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4578G	100.39	Inf	-Inf	32.02	3	Horizontal	66	1.50	68.37	27.73	4.29	-
AV	2.4835G	48.90	54.00	-5.10	32.14	3	Horizontal	66	1.50	16.76	27.83	4.31	-
PK	2.4578G	103.01	Inf	-Inf	32.02	3	Horizontal	66	1.50	70.99	27.73	4.29	-
PK	2.4835G	60.12	74.00	-13.88	32.14	3	Horizontal	66	1.50	27.98	27.83	4.31	-

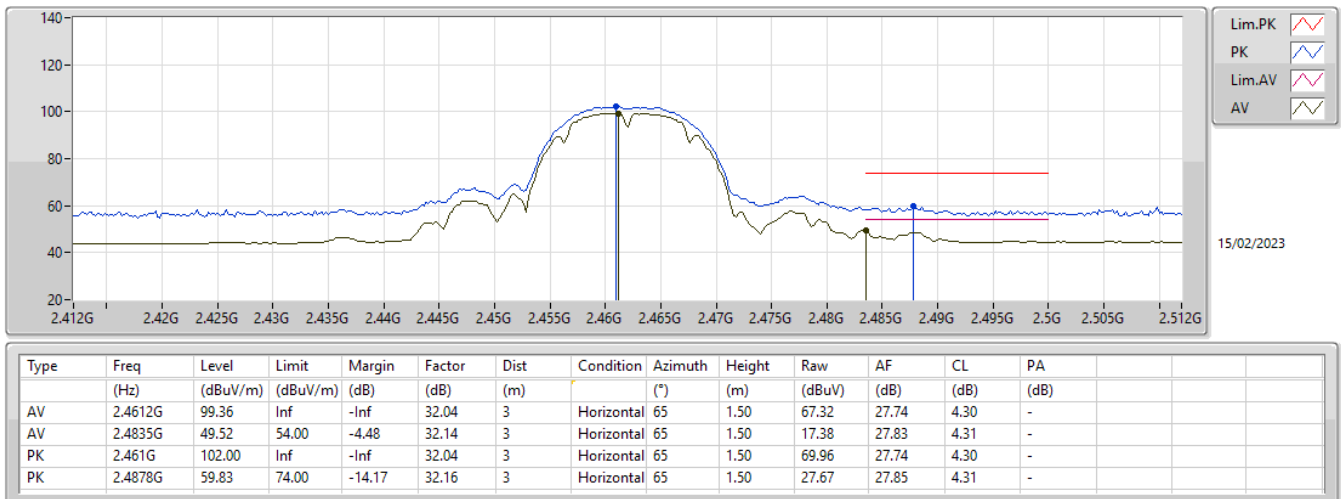
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



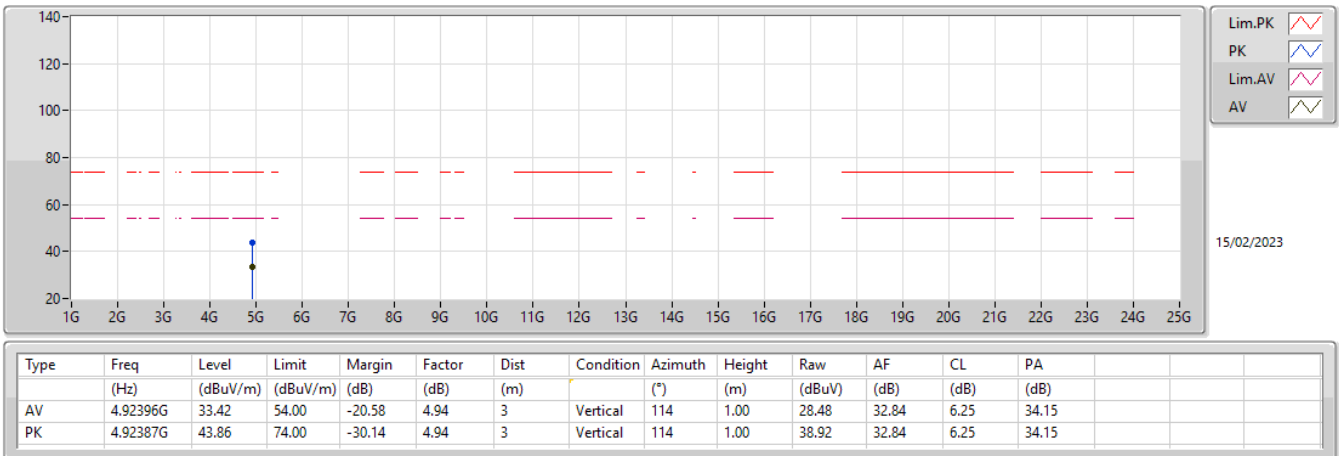
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



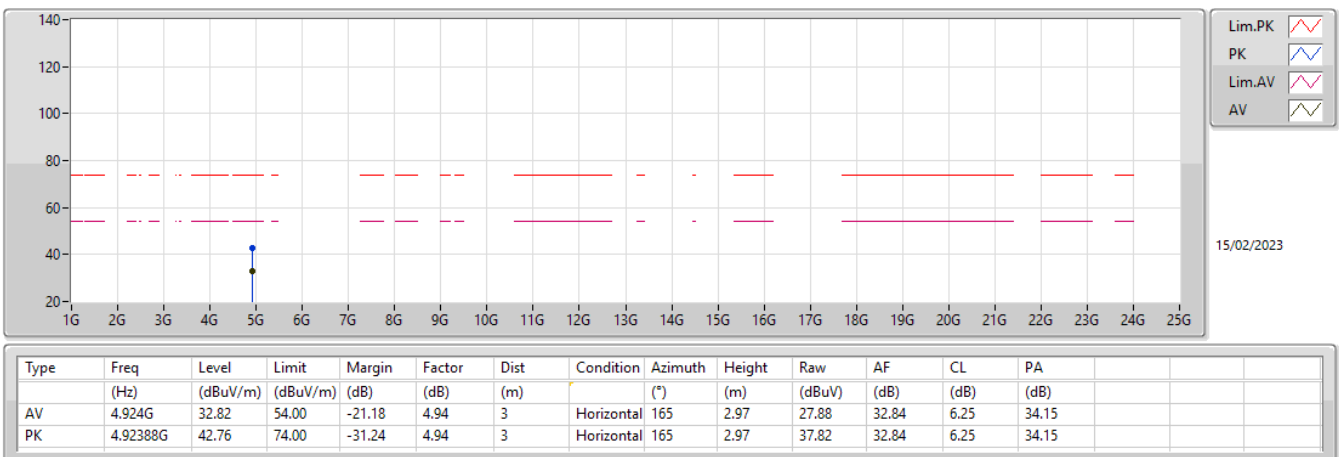
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



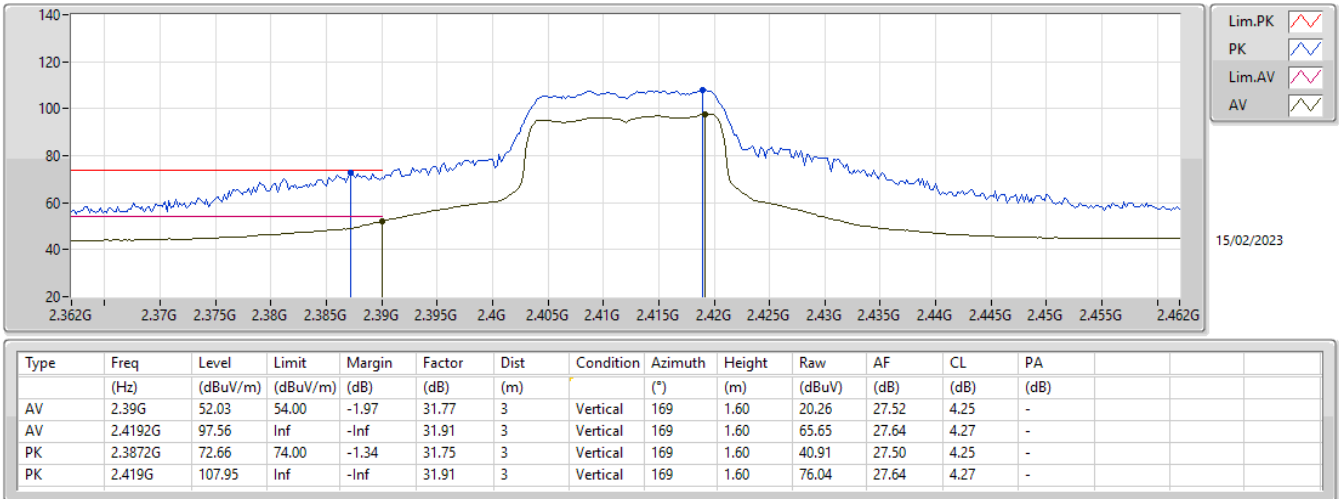
2.4-2.4835GHz_802.11b_Nss1,(1Mbps)_1TX

2462MHz_TX



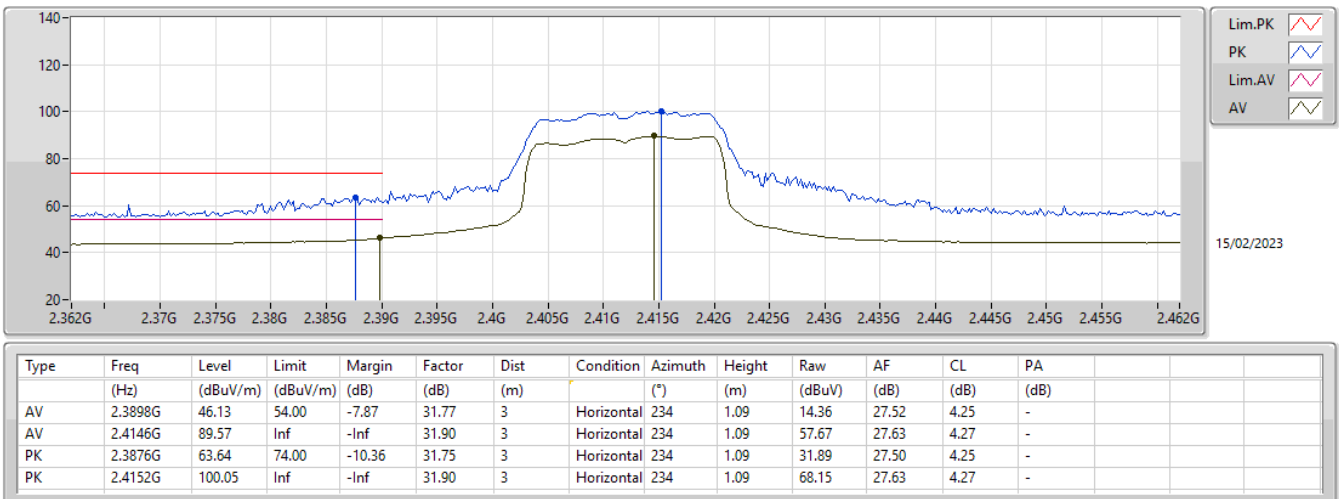
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



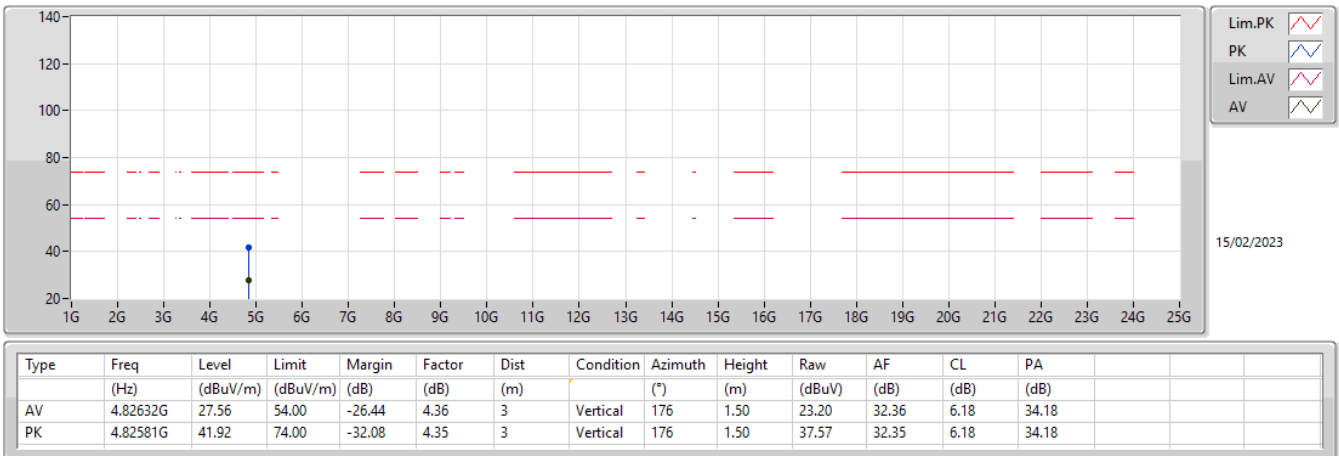
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



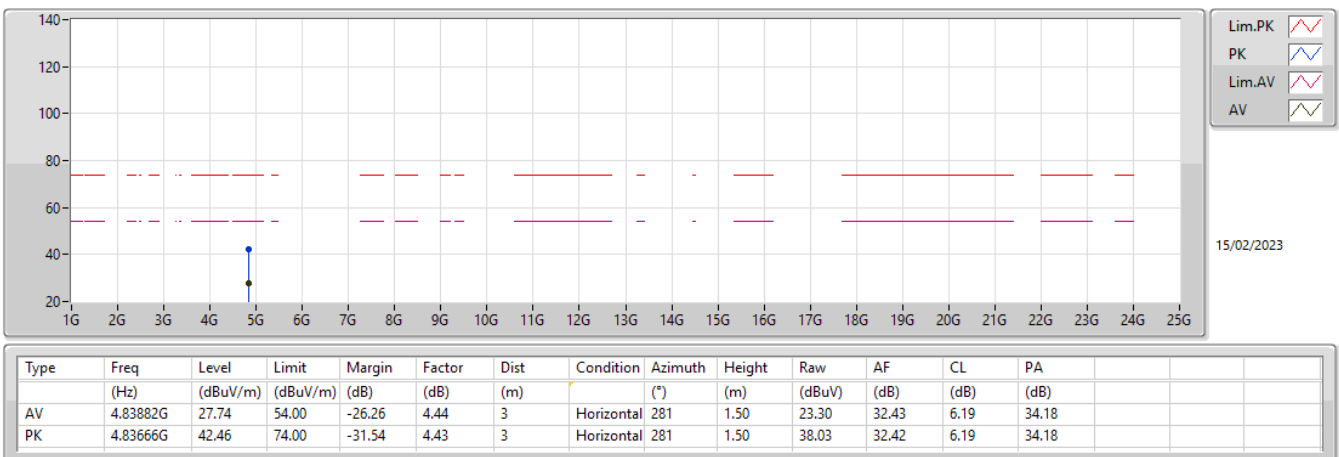
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



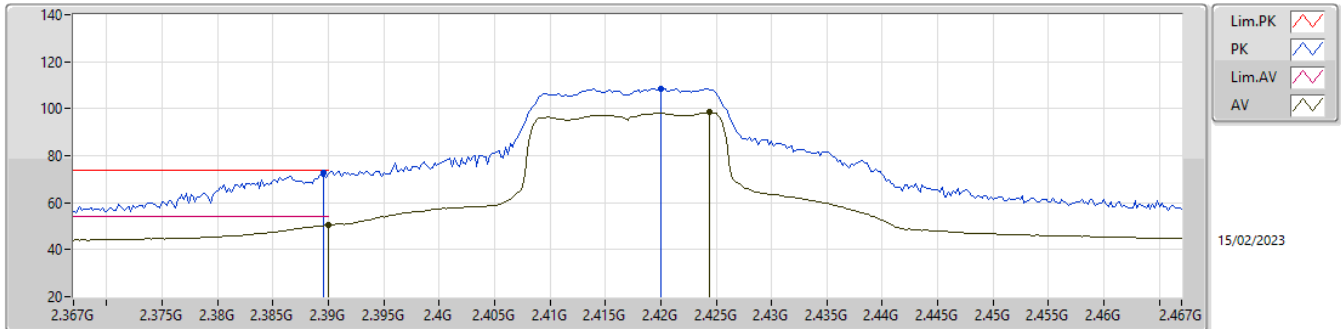
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

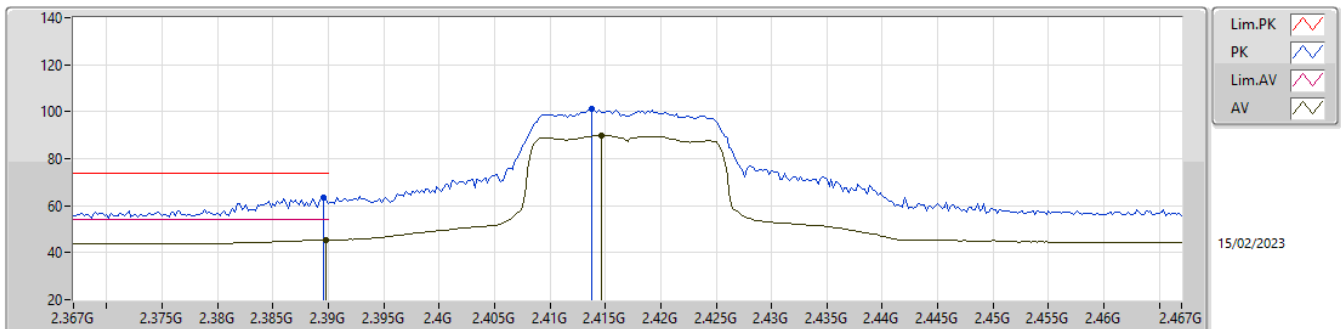
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.50	54.00	-3.50	31.77	3	Vertical	170	1.62	18.73	27.52	4.25	-
AV	2.4244G	98.39	Inf	-Inf	31.92	3	Vertical	170	1.62	66.47	27.65	4.27	-
PK	2.3896G	72.59	74.00	-1.41	31.77	3	Vertical	170	1.62	40.82	27.52	4.25	-
PK	2.42G	108.60	Inf	-Inf	31.91	3	Vertical	170	1.62	76.69	27.64	4.27	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

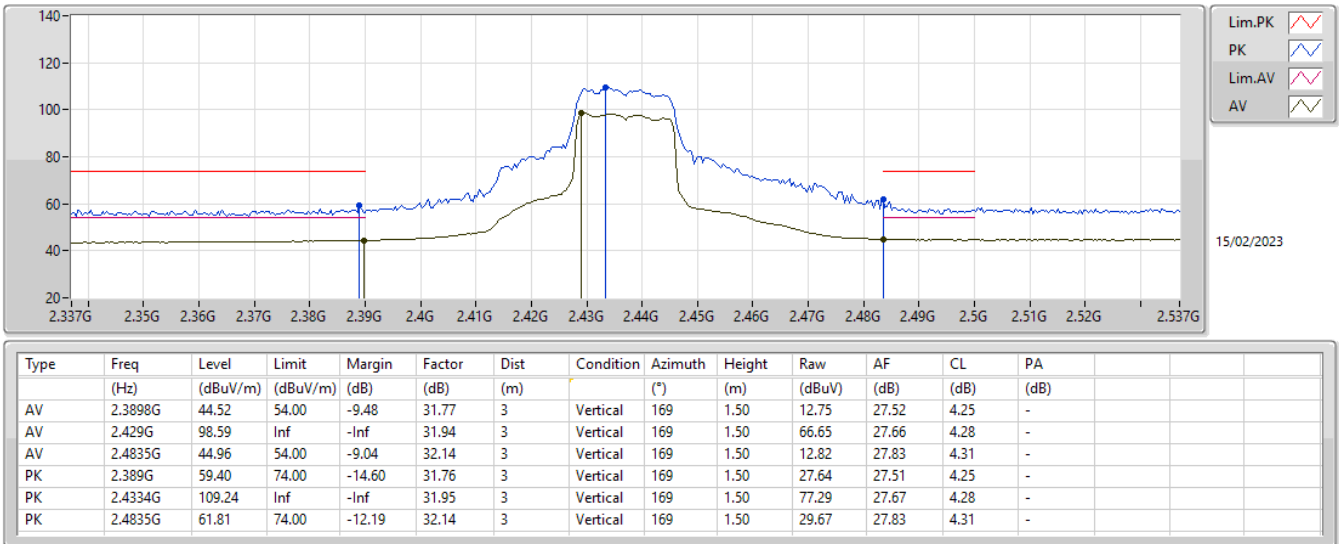
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	45.54	54.00	-8.46	31.77	3	Horizontal	233	1.10	13.77	27.52	4.25	-
AV	2.4146G	89.90	Inf	-Inf	31.90	3	Horizontal	233	1.10	58.00	27.63	4.27	-
PK	2.3896G	63.61	74.00	-10.39	31.77	3	Horizontal	233	1.10	31.84	27.52	4.25	-
PK	2.4138G	101.06	Inf	-Inf	31.90	3	Horizontal	233	1.10	69.16	27.63	4.27	-

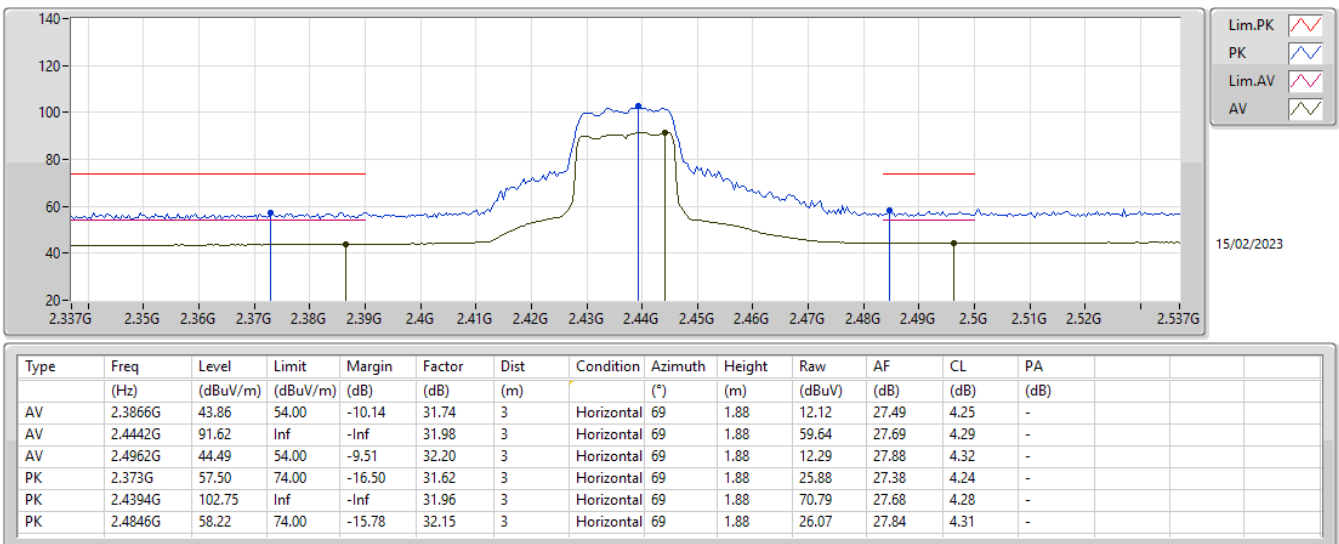
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



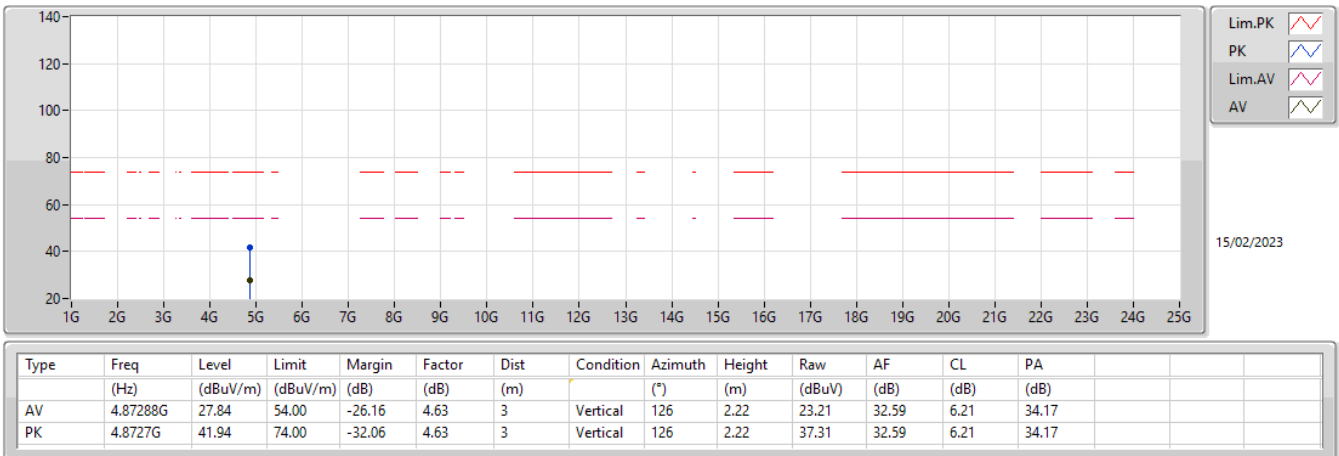
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



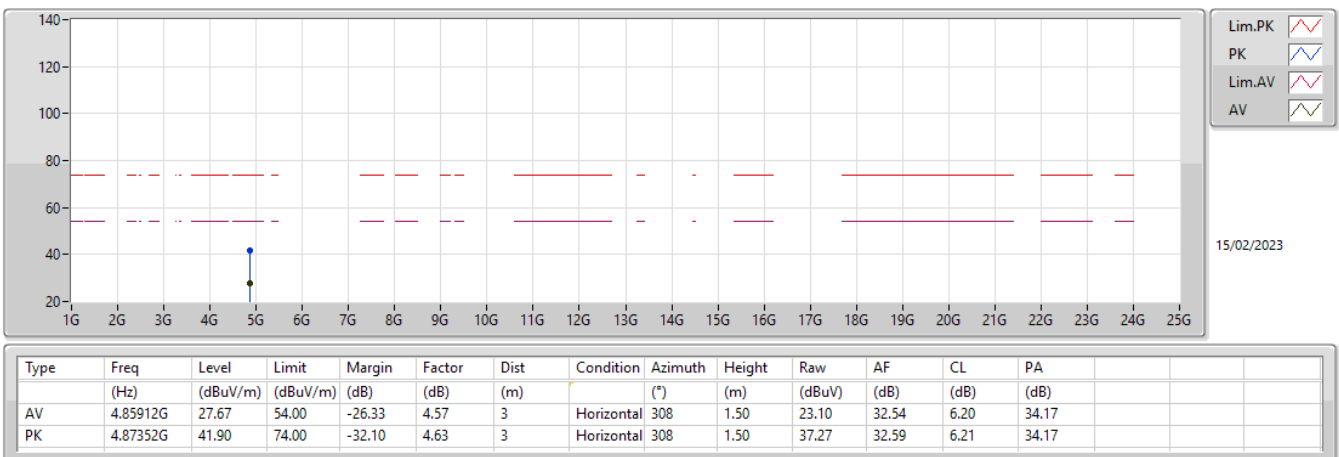
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



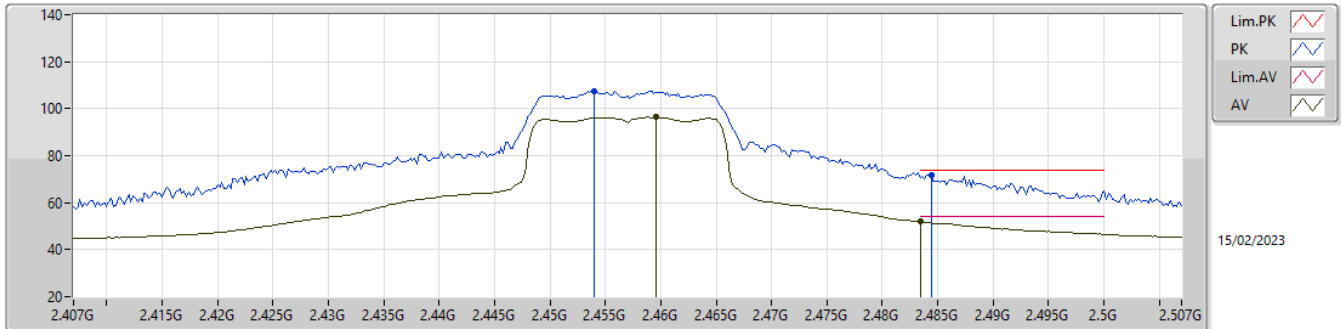
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

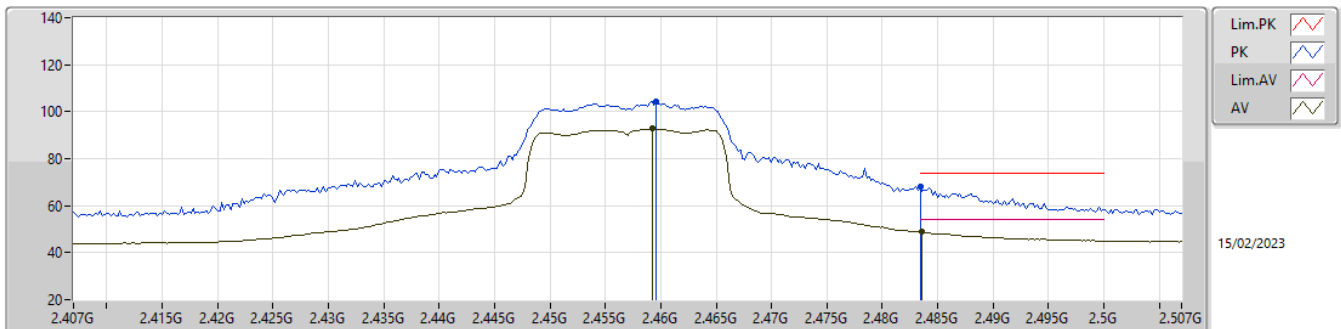
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4596G	96.41	Inf	-Inf	32.04	3	Vertical	170	1.00	64.37	27.74	4.30	-
AV	2.4835G	51.88	54.00	-2.12	32.14	3	Vertical	170	1.00	19.74	27.83	4.31	-
PK	2.454G	107.56	Inf	-Inf	32.01	3	Vertical	170	1.00	75.55	27.72	4.29	-
PK	2.4844G	71.64	74.00	-2.36	32.15	3	Vertical	170	1.00	39.49	27.84	4.31	-

2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

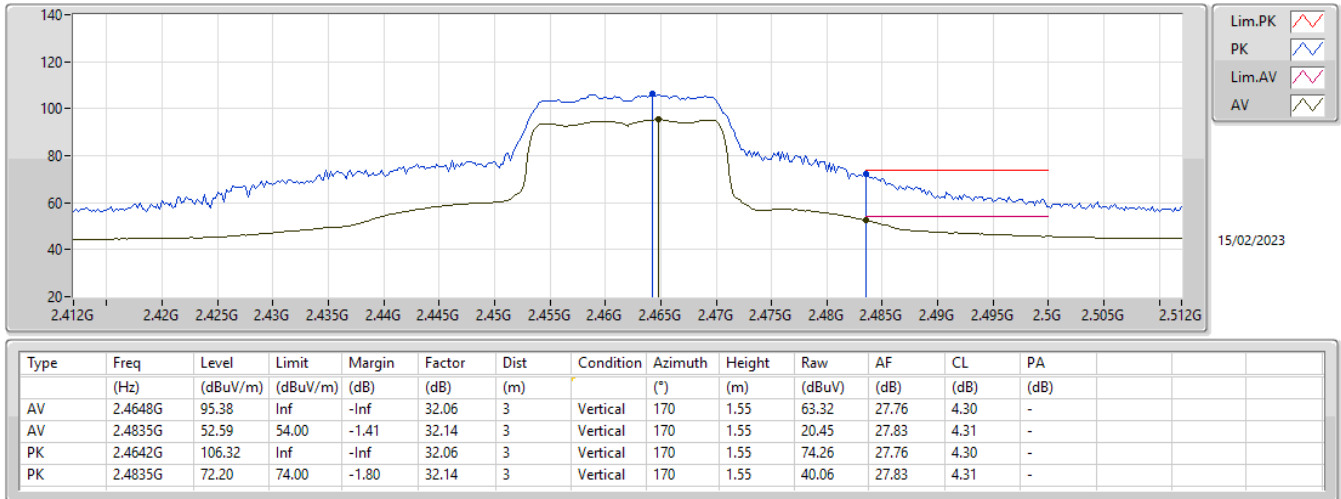
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4592G	92.71	Inf	-Inf	32.04	3	Horizontal	66	1.50	60.67	27.74	4.30	-
AV	2.4836G	48.83	54.00	-5.17	32.14	3	Horizontal	66	1.50	16.69	27.83	4.31	-
PK	2.4596G	104.41	Inf	-Inf	32.04	3	Horizontal	66	1.50	72.37	27.74	4.30	-
PK	2.4835G	68.35	74.00	-5.65	32.14	3	Horizontal	66	1.50	36.21	27.83	4.31	-

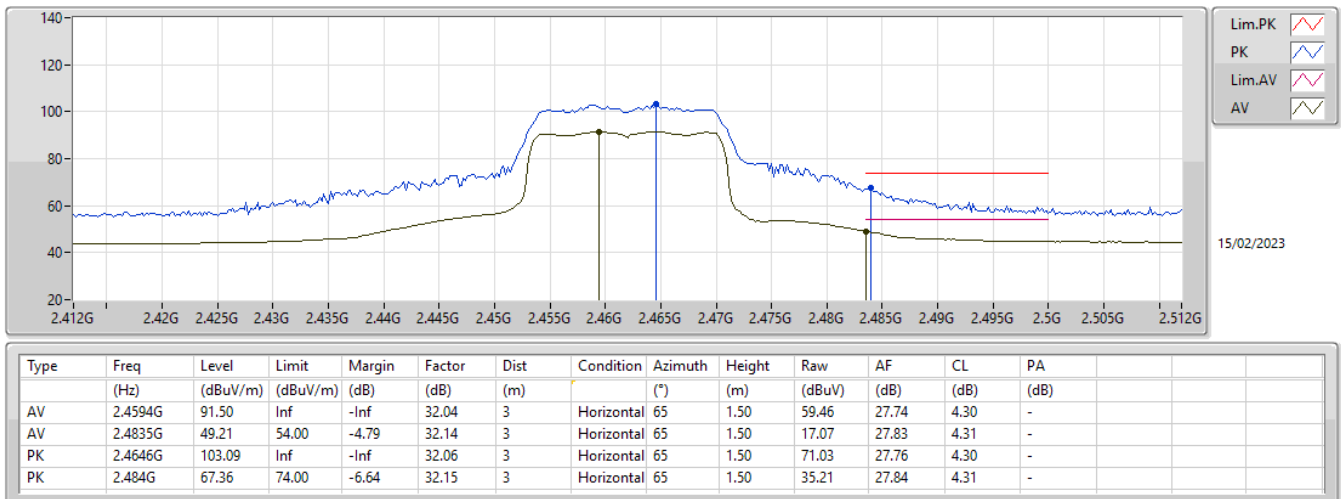
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



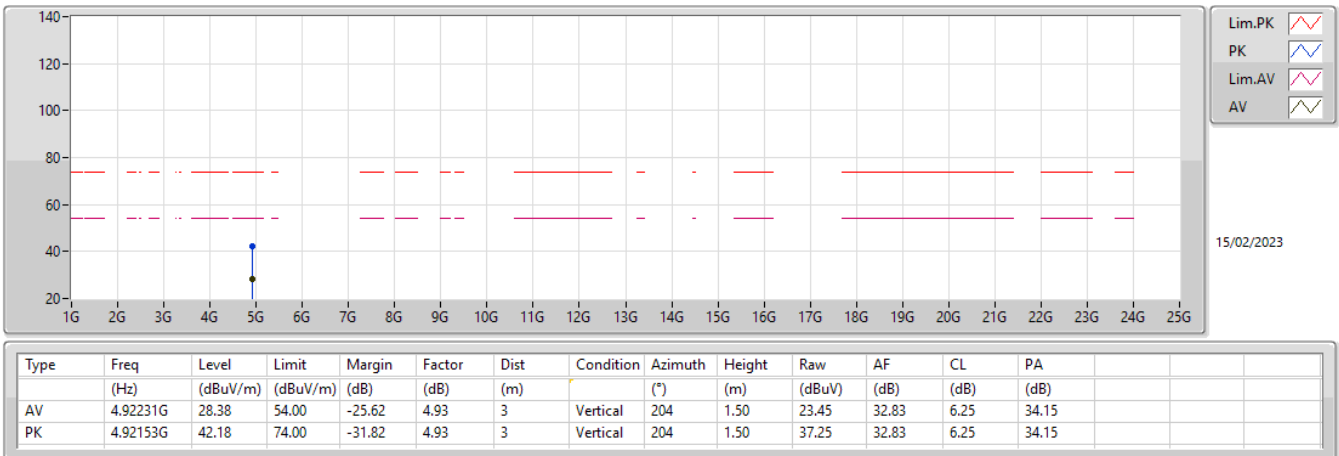
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



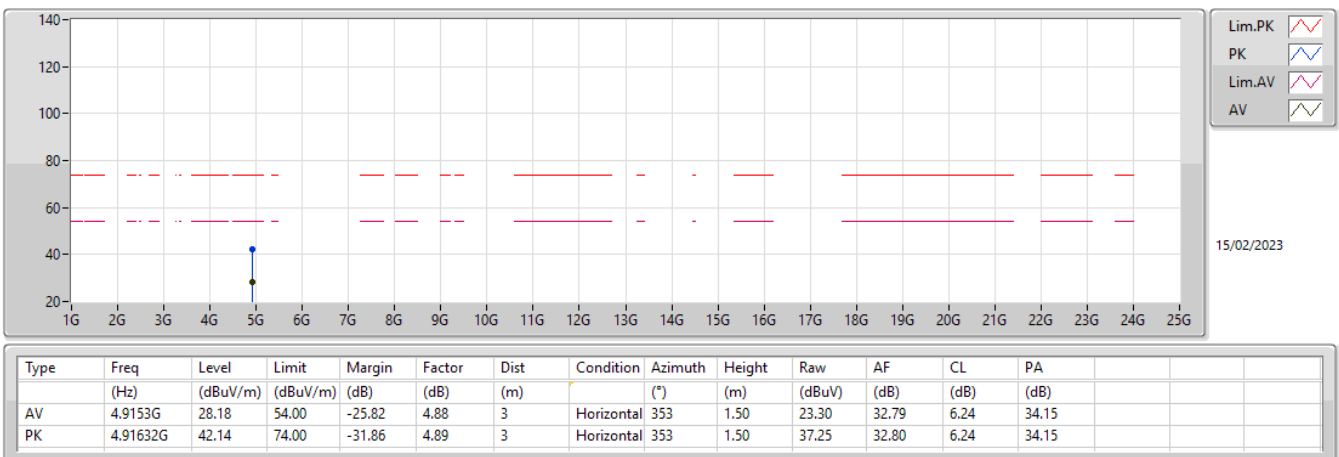
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



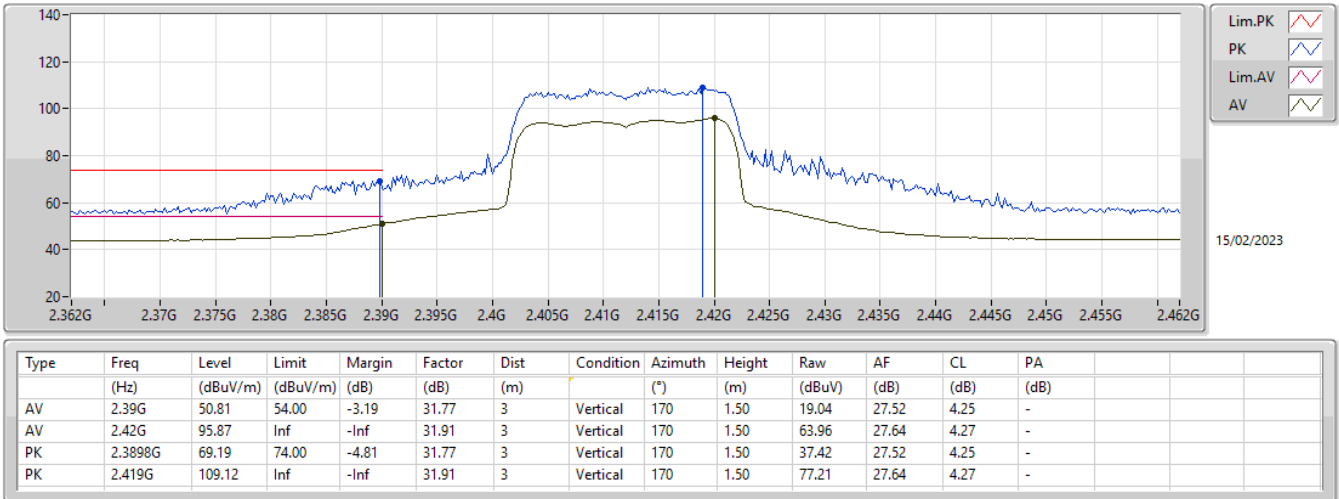
2.4-2.4835GHz_802.11g_Nss1,(6Mbps)_1TX

2462MHz_TX



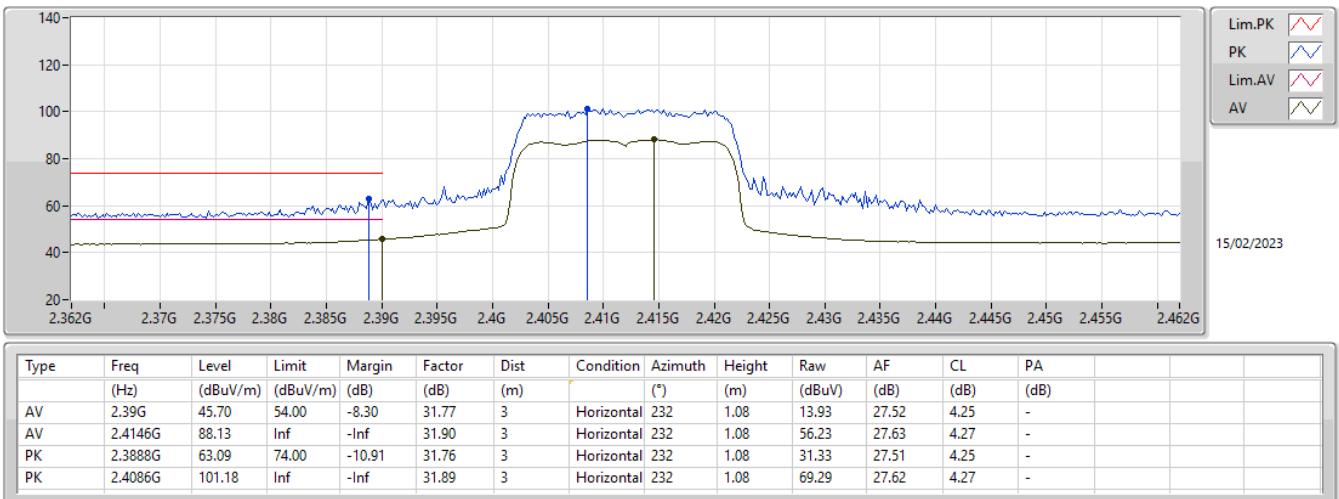
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



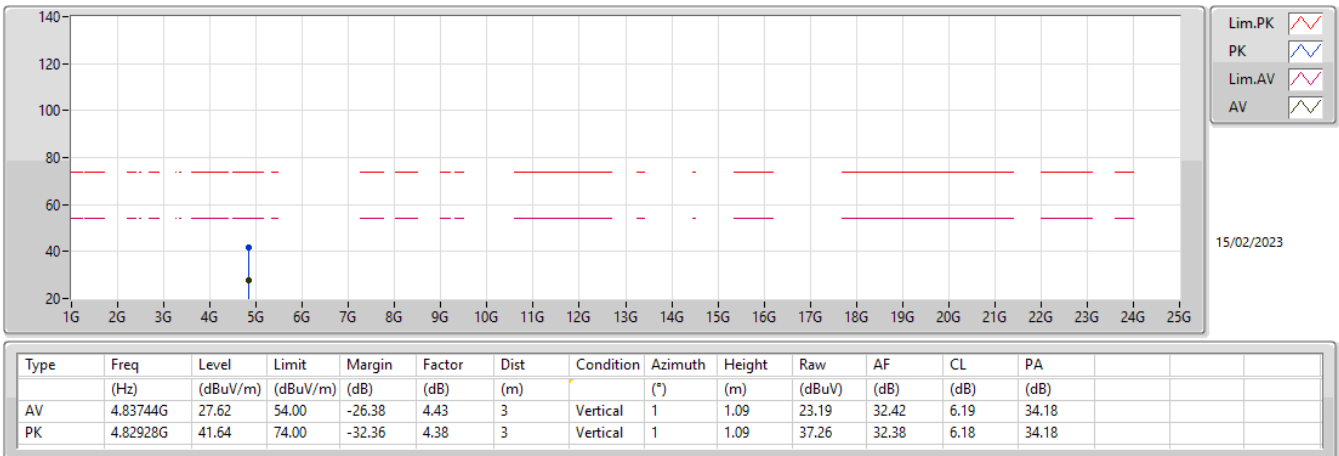
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



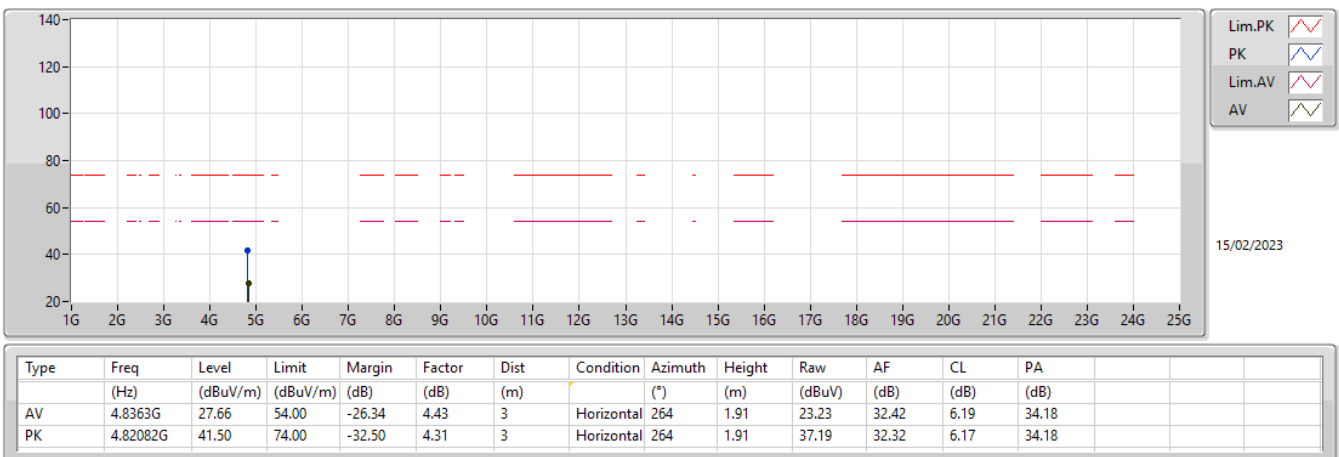
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



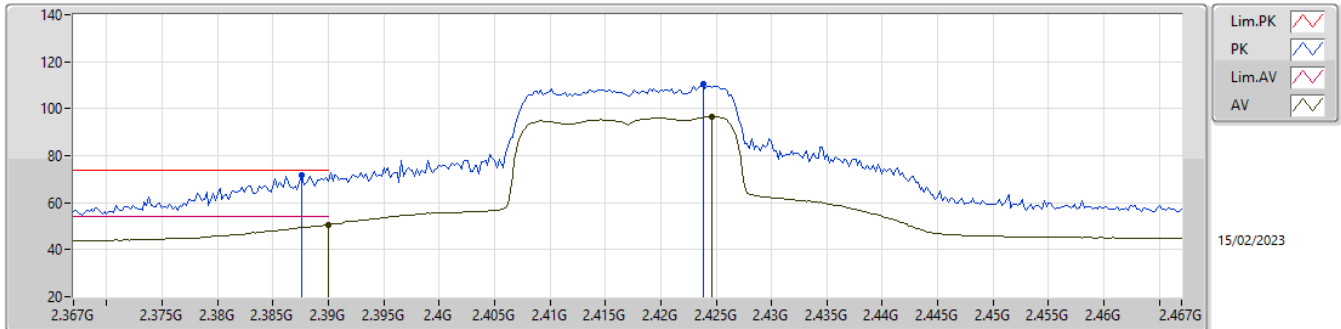
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2412MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

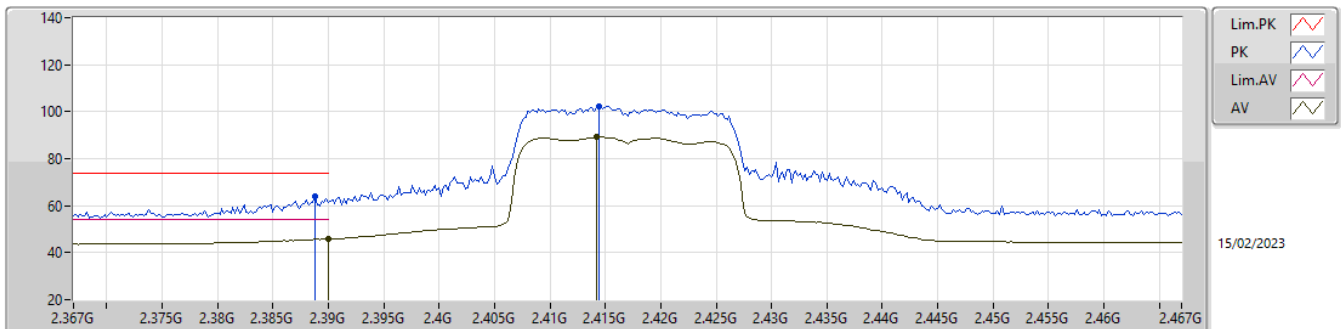
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	50.43	54.00	-3.57	31.77	3	Vertical	172	1.61	18.66	27.52	4.25	-
AV	2.4246G	96.75	Inf	-Inf	31.92	3	Vertical	172	1.61	64.83	27.65	4.27	-
PK	2.3876G	71.54	74.00	-2.46	31.75	3	Vertical	172	1.61	39.79	27.50	4.25	-
PK	2.4238G	110.41	Inf	-Inf	31.92	3	Vertical	172	1.61	78.49	27.65	4.27	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

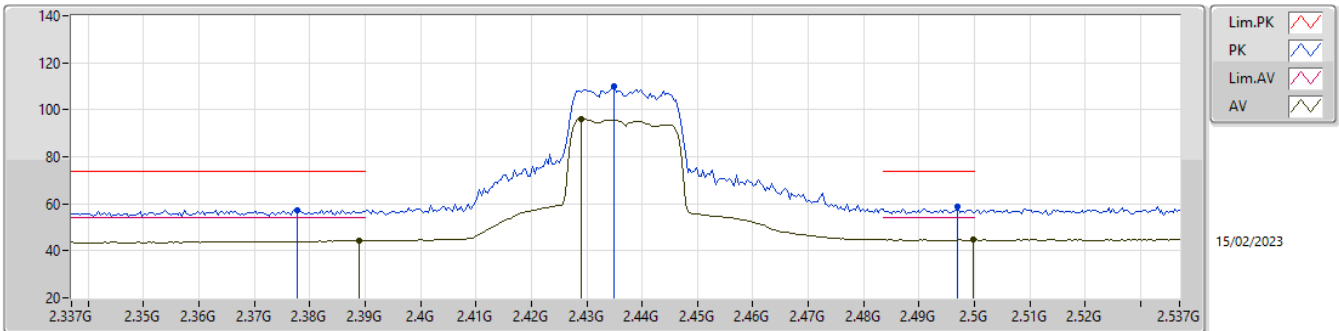
2417MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.39G	45.81	54.00	-8.19	31.77	3	Horizontal	232	1.08	14.04	27.52	4.25	-
AV	2.4142G	89.14	Inf	-Inf	31.90	3	Horizontal	232	1.08	57.24	27.63	4.27	-
PK	2.3888G	63.98	74.00	-10.02	31.76	3	Horizontal	232	1.08	32.22	27.51	4.25	-
PK	2.4144G	102.10	Inf	-Inf	31.90	3	Horizontal	232	1.08	70.20	27.63	4.27	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

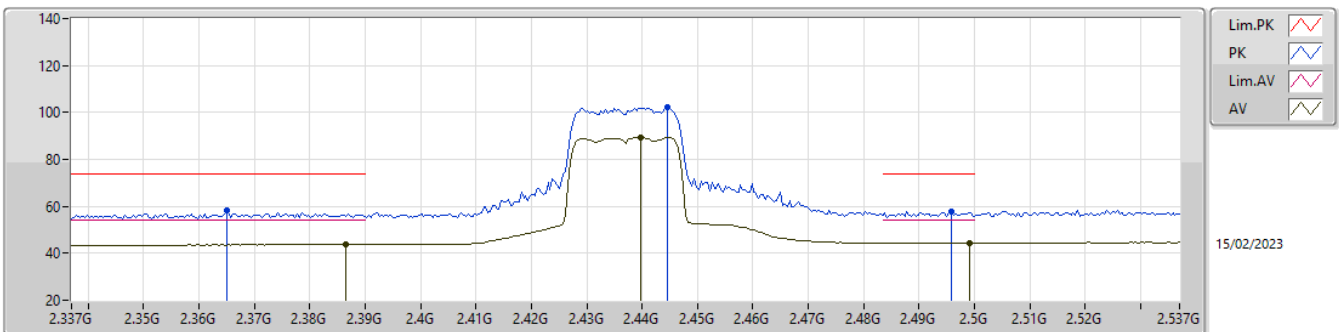
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.389G	44.24	54.00	-9.76	31.76	3	Vertical	170	1.53	12.48	27.51	4.25	-
AV	2.429G	96.28	Inf	-Inf	31.94	3	Vertical	170	1.53	64.34	27.66	4.28	-
AV	2.4998G	44.80	54.00	-9.20	32.22	3	Vertical	170	1.53	12.58	27.90	4.32	-
PK	2.3778G	57.45	74.00	-16.55	31.66	3	Vertical	170	1.53	25.79	27.42	4.24	-
PK	2.435G	109.78	Inf	-Inf	31.95	3	Vertical	170	1.53	77.83	27.67	4.28	-
PK	2.497G	58.75	74.00	-15.25	32.21	3	Vertical	170	1.53	26.54	27.89	4.32	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

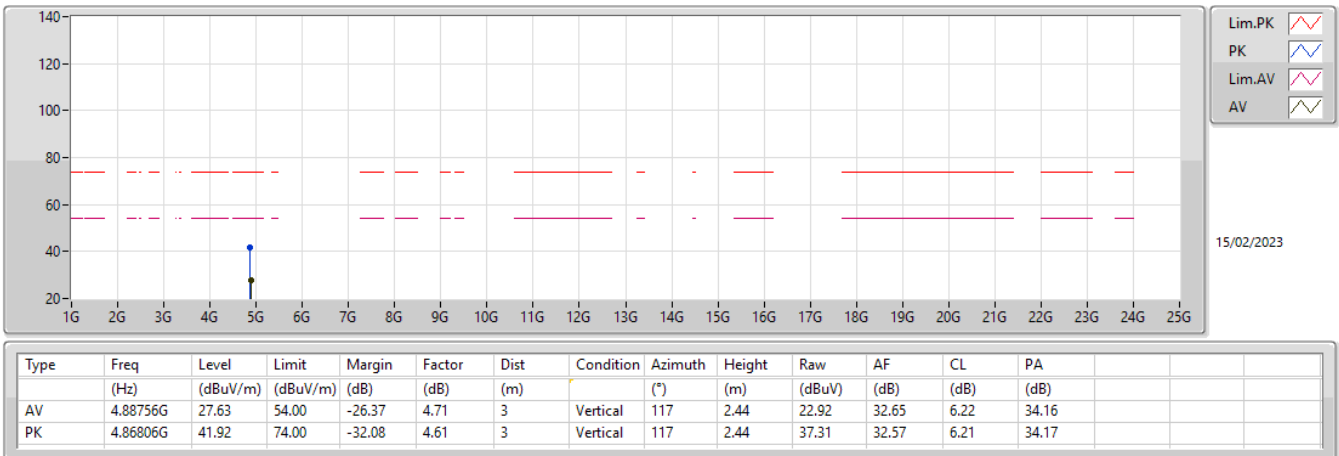
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3866G	43.85	54.00	-10.15	31.74	3	Horizontal	65	1.54	12.11	27.49	4.25	-
AV	2.4398G	89.48	Inf	-Inf	31.96	3	Horizontal	65	1.54	57.52	27.68	4.28	-
AV	2.499G	44.45	54.00	-9.55	32.22	3	Horizontal	65	1.54	12.23	27.90	4.32	-
PK	2.365G	58.25	74.00	-15.75	31.55	3	Horizontal	65	1.54	26.70	27.32	4.23	-
PK	2.4446G	102.06	Inf	-Inf	31.98	3	Horizontal	65	1.54	70.08	27.69	4.29	-
PK	2.4958G	57.99	74.00	-16.01	32.20	3	Horizontal	65	1.54	25.79	27.88	4.32	-

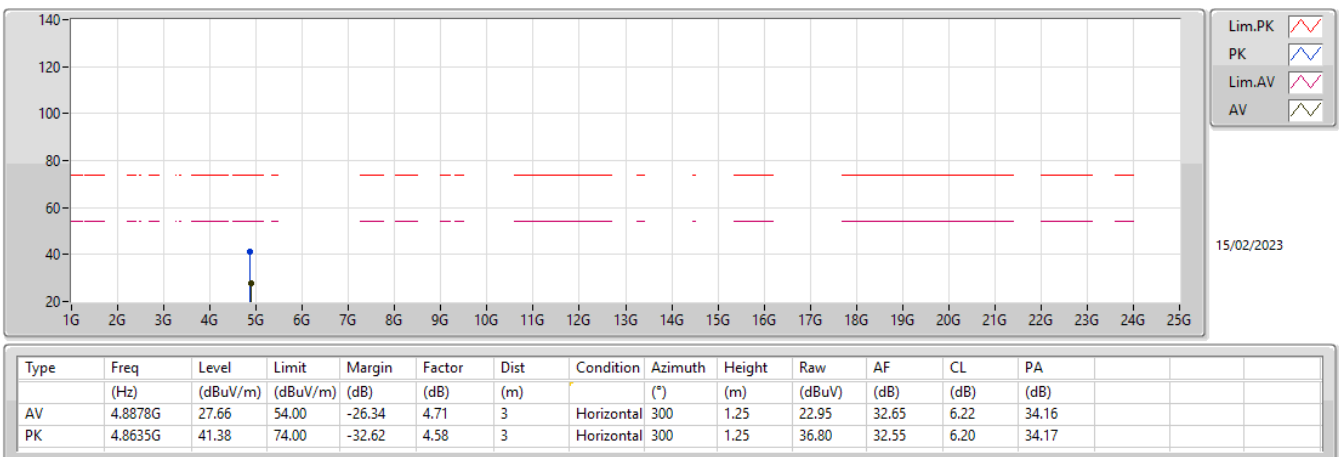
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX



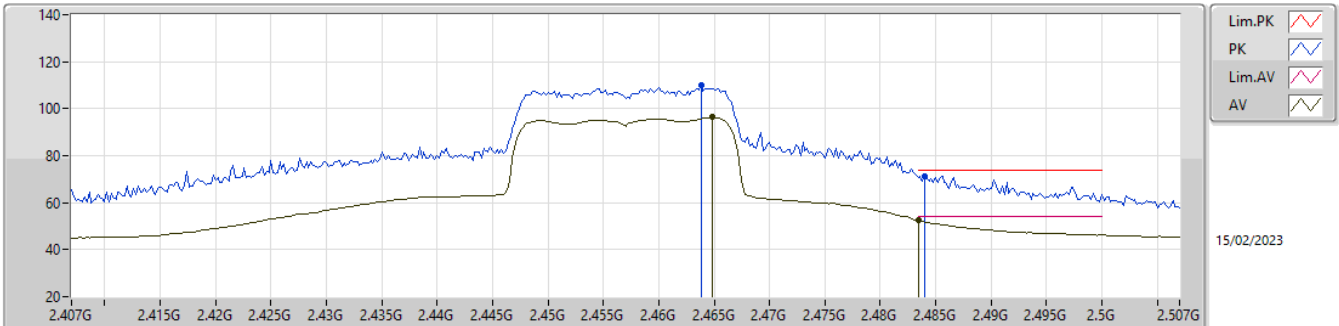
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

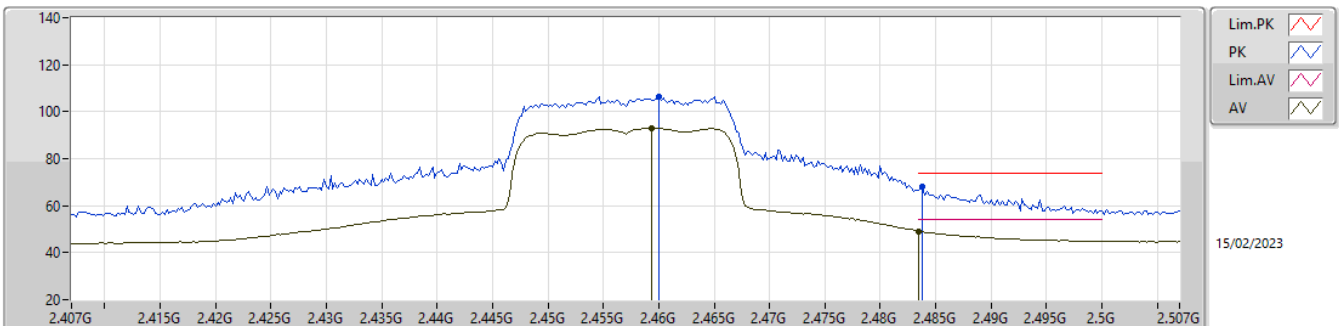
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4648G	96.30	Inf	-Inf	32.06	3	Vertical	170	1.50	64.24	27.76	4.30	-
AV	2.4835G	52.46	54.00	-1.54	32.14	3	Vertical	170	1.50	20.32	27.83	4.31	-
PK	2.4638G	110.06	Inf	-Inf	32.06	3	Vertical	170	1.50	78.00	27.76	4.30	-
PK	2.484G	71.42	74.00	-2.58	32.15	3	Vertical	170	1.50	39.27	27.84	4.31	-

2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

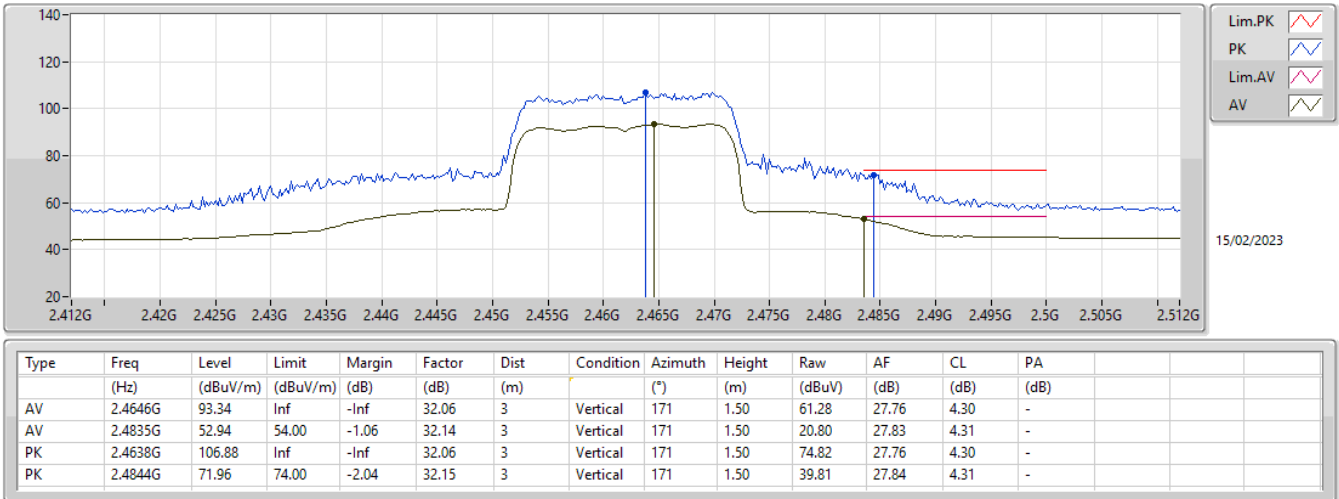
2457MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.4594G	93.18	Inf	-Inf	32.04	3	Horizontal	64	1.52	61.14	27.74	4.30	-
AV	2.4835G	49.08	54.00	-4.92	32.14	3	Horizontal	64	1.52	16.94	27.83	4.31	-
PK	2.46G	106.35	Inf	-Inf	32.04	3	Horizontal	64	1.52	74.31	27.74	4.30	-
PK	2.4838G	68.28	74.00	-5.72	32.15	3	Horizontal	64	1.52	36.13	27.84	4.31	-

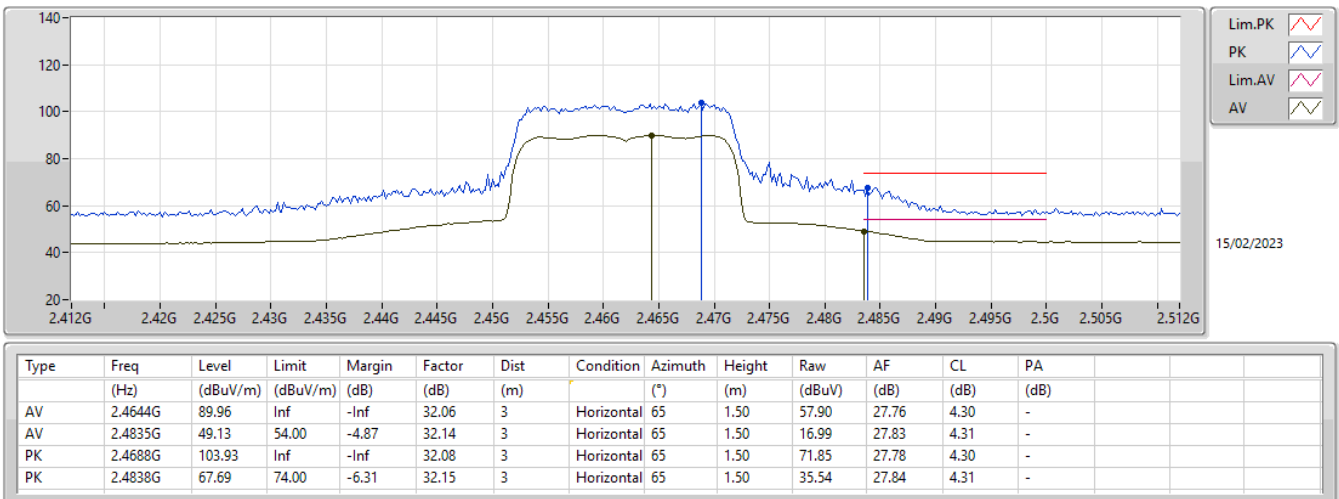
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX



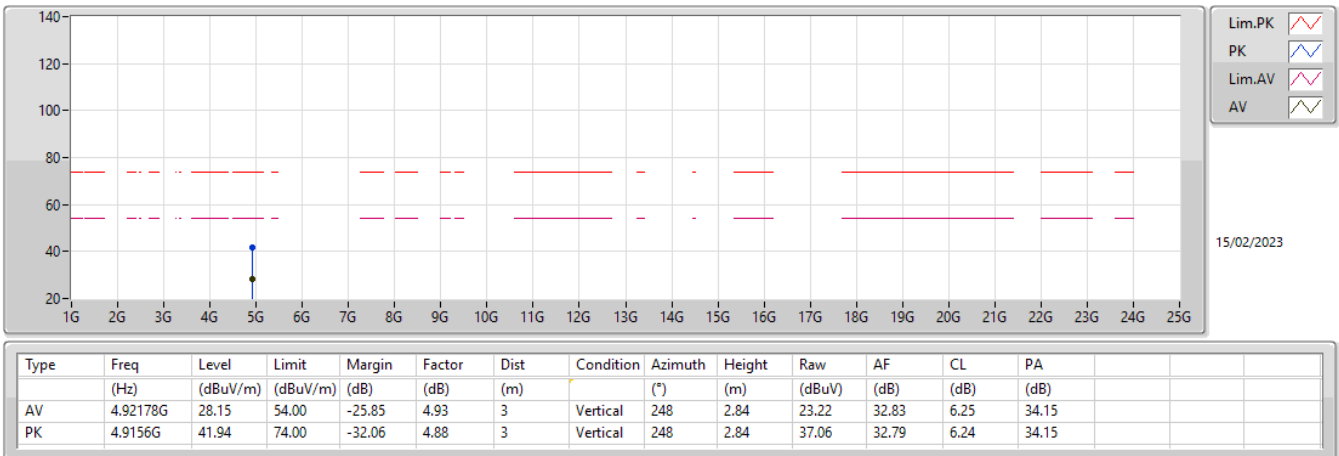
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX



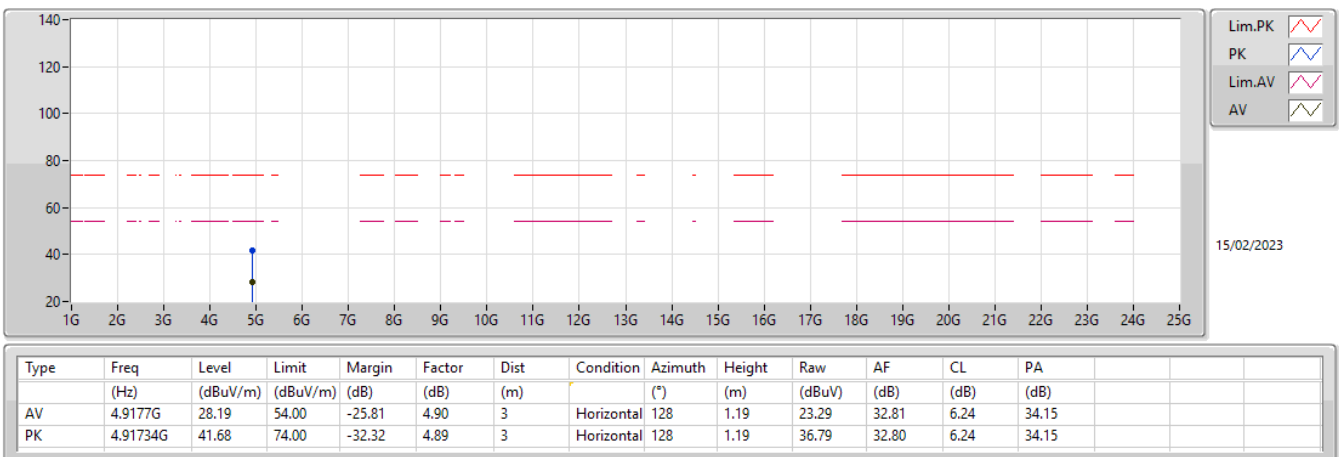
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX



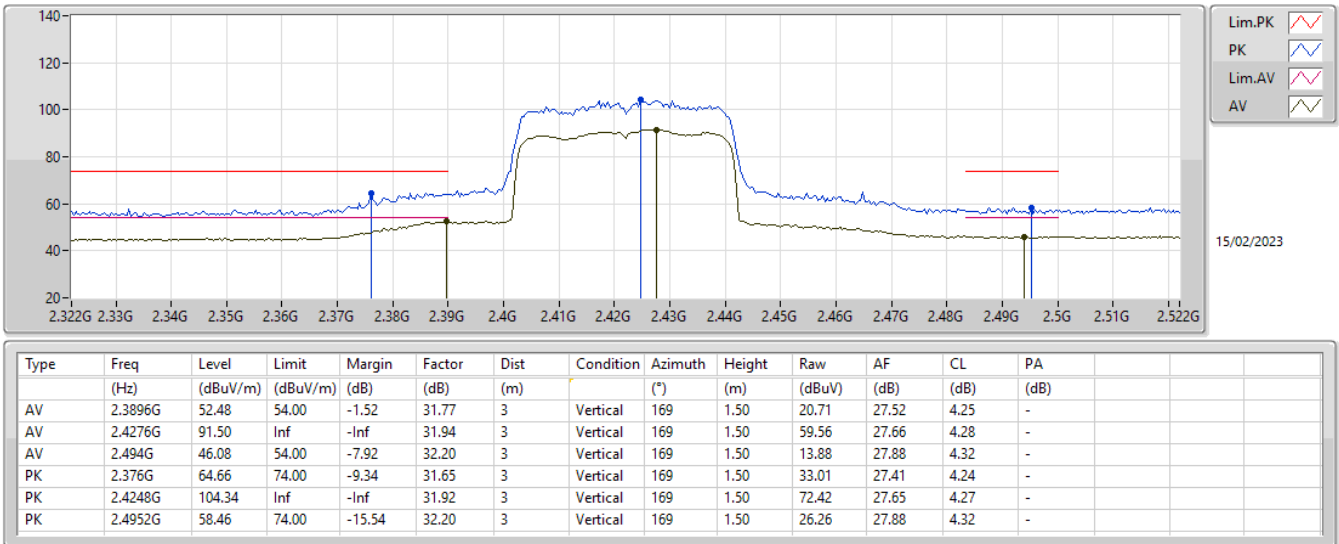
2.4-2.4835GHz_802.11ax HEW20_Nss1,(MCS0)_1TX

2462MHz_TX



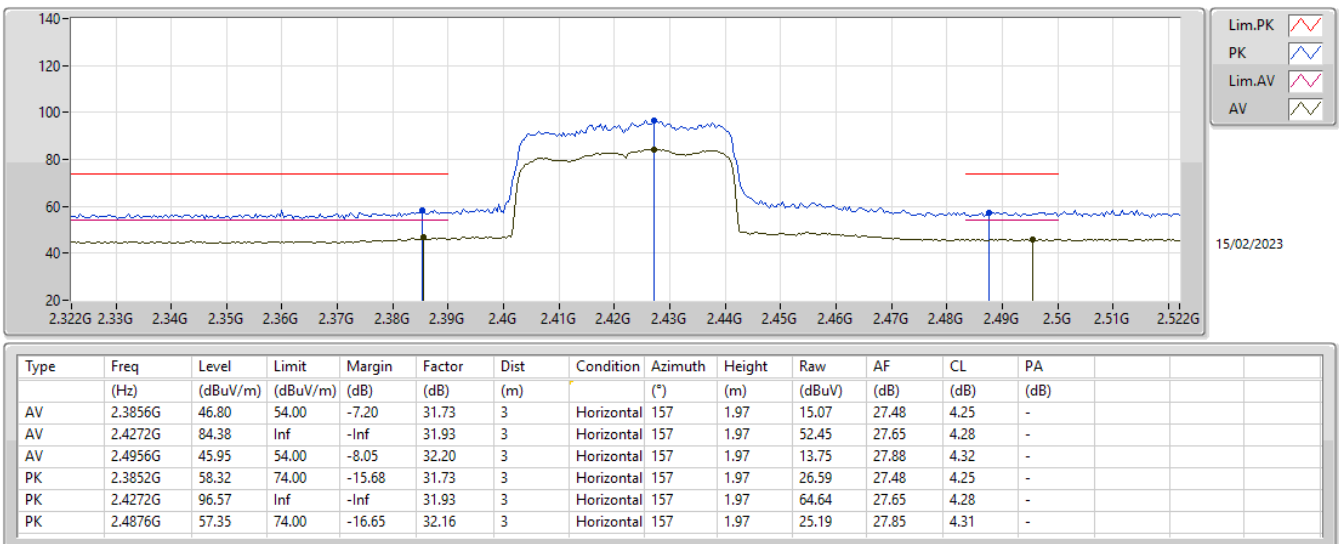
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX



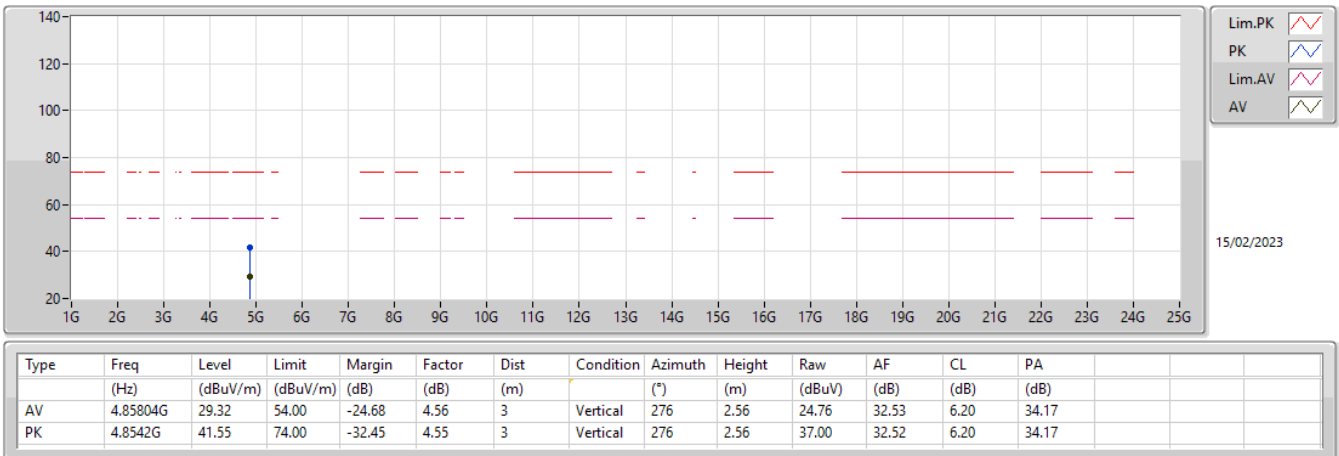
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX



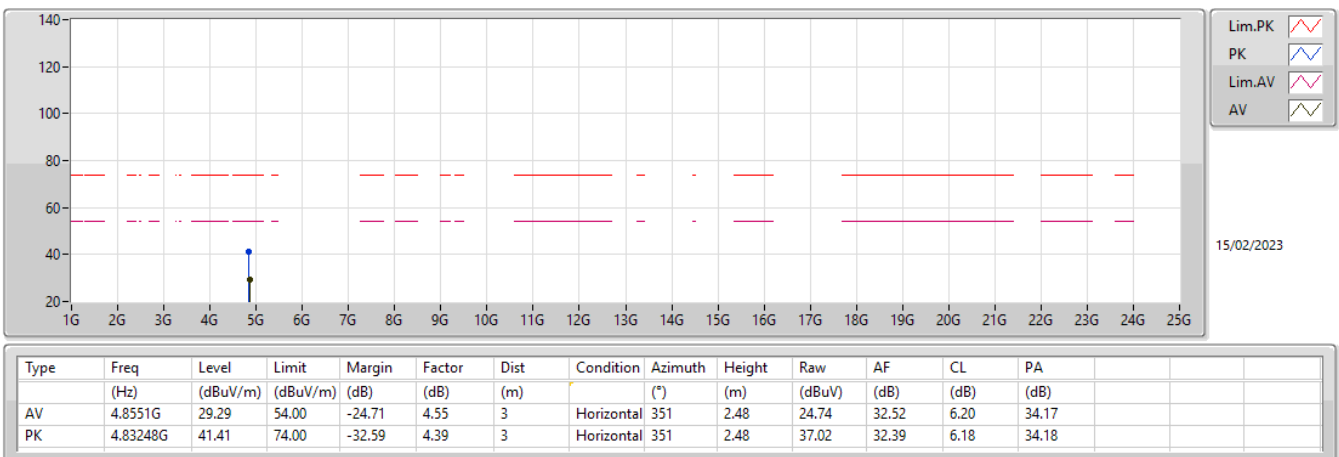
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX



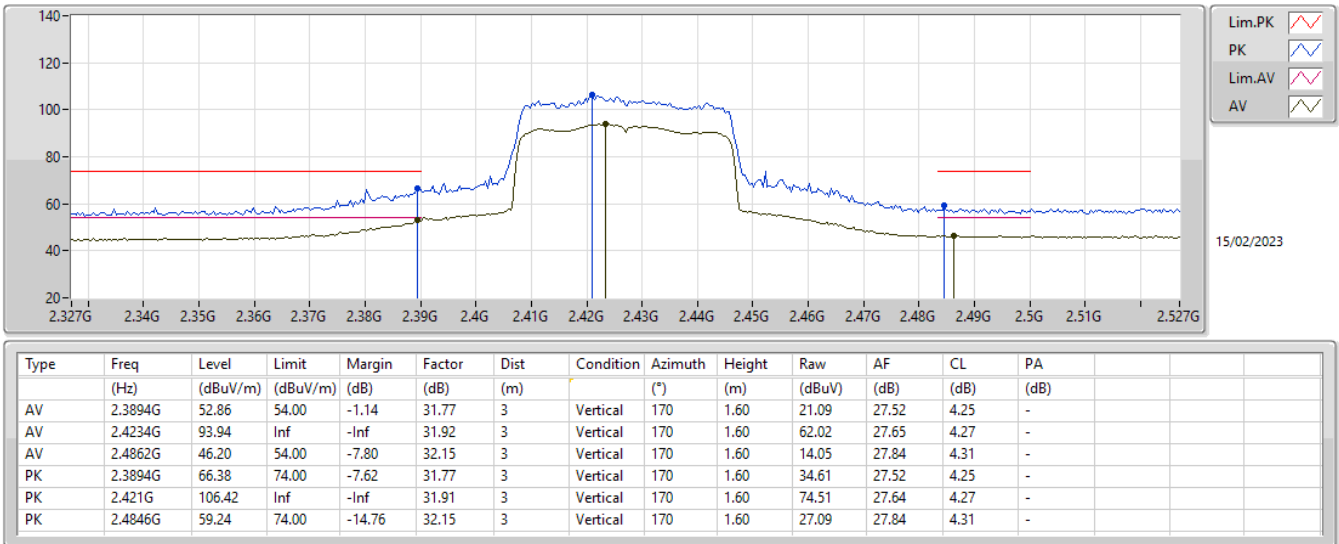
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2422MHz_TX



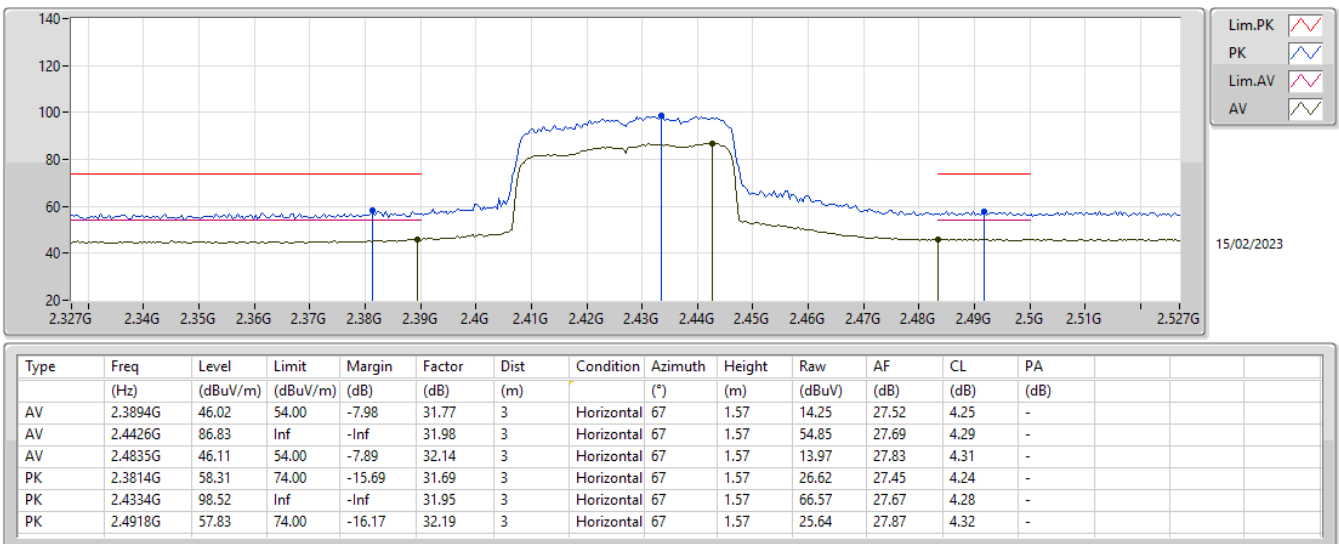
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2427MHz_TX



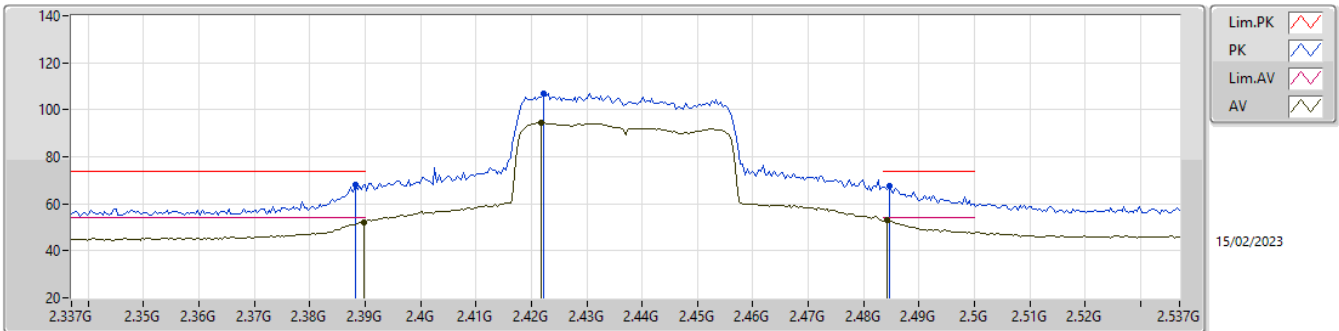
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2427MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

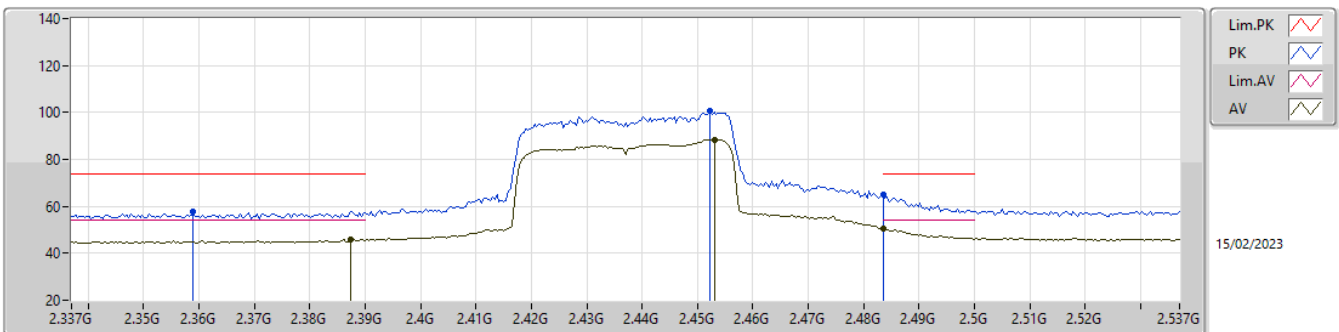
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3898G	52.26	54.00	-1.74	31.77	3	Vertical	170	1.57	20.49	27.52	4.25	-
AV	2.4218G	94.39	Inf	-Inf	31.91	3	Vertical	170	1.57	62.48	27.64	4.27	-
AV	2.4842G	52.93	54.00	-1.07	32.15	3	Vertical	170	1.57	20.78	27.84	4.31	-
PK	2.3882G	68.17	74.00	-5.83	31.76	3	Vertical	170	1.57	36.41	27.51	4.25	-
PK	2.4222G	107.15	Inf	-Inf	31.91	3	Vertical	170	1.57	75.24	27.64	4.27	-
PK	2.4846G	67.72	74.00	-6.28	32.15	3	Vertical	170	1.57	35.57	27.84	4.31	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

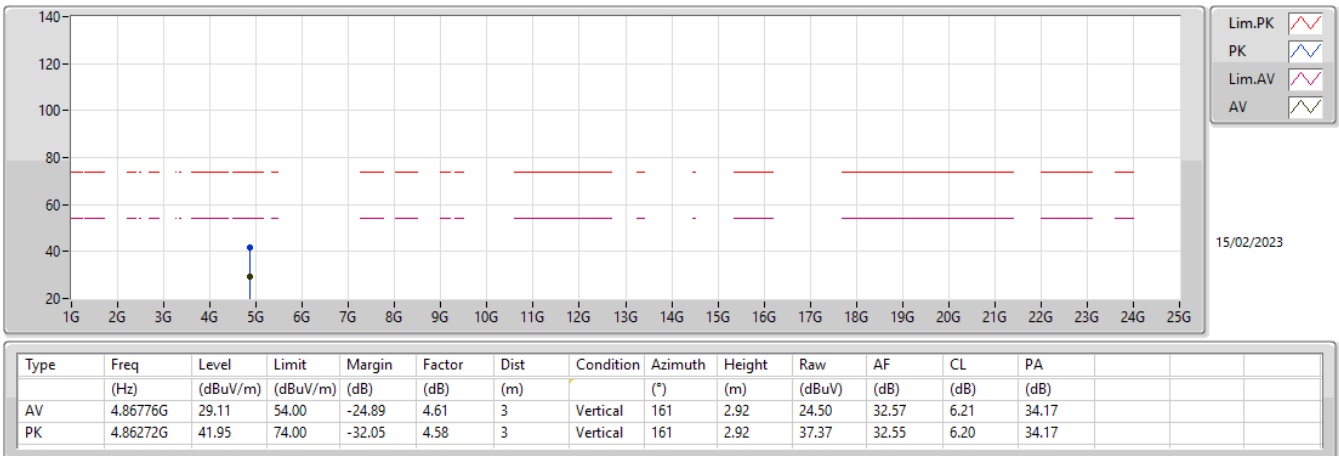
2437MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3874G	45.77	54.00	-8.23	31.75	3	Horizontal	65	1.50	14.02	27.50	4.25	-
AV	2.453G	88.53	Inf	-Inf	32.00	3	Horizontal	65	1.50	56.53	27.71	4.29	-
AV	2.4835G	50.43	54.00	-3.57	32.14	3	Horizontal	65	1.50	18.29	27.83	4.31	-
PK	2.359G	57.80	74.00	-16.20	31.50	3	Horizontal	65	1.50	26.30	27.27	4.23	-
PK	2.4522G	100.94	Inf	-Inf	32.00	3	Horizontal	65	1.50	68.94	27.71	4.29	-
PK	2.4835G	65.09	74.00	-8.91	32.14	3	Horizontal	65	1.50	32.95	27.83	4.31	-

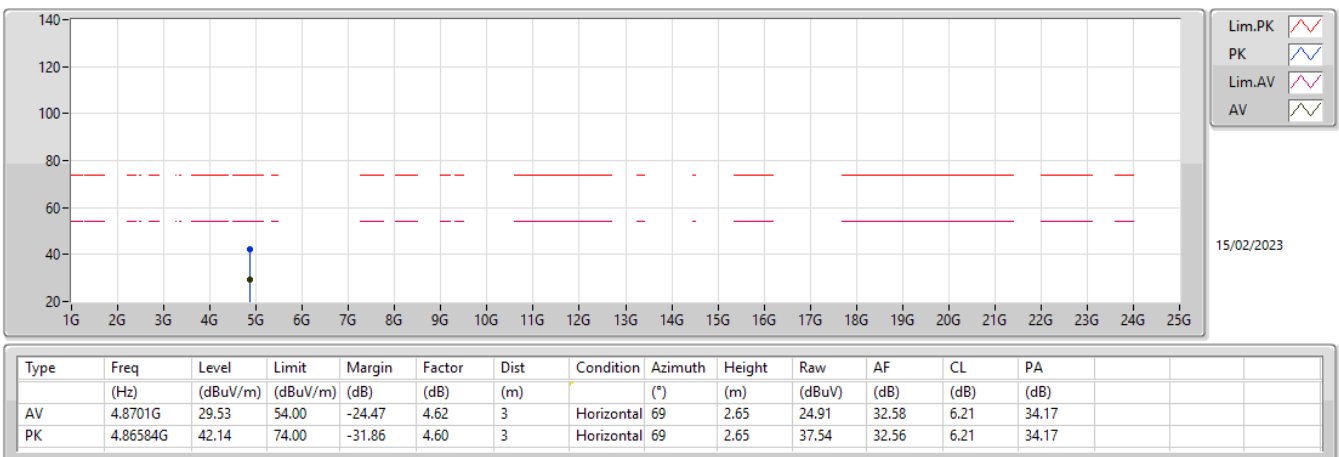
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX



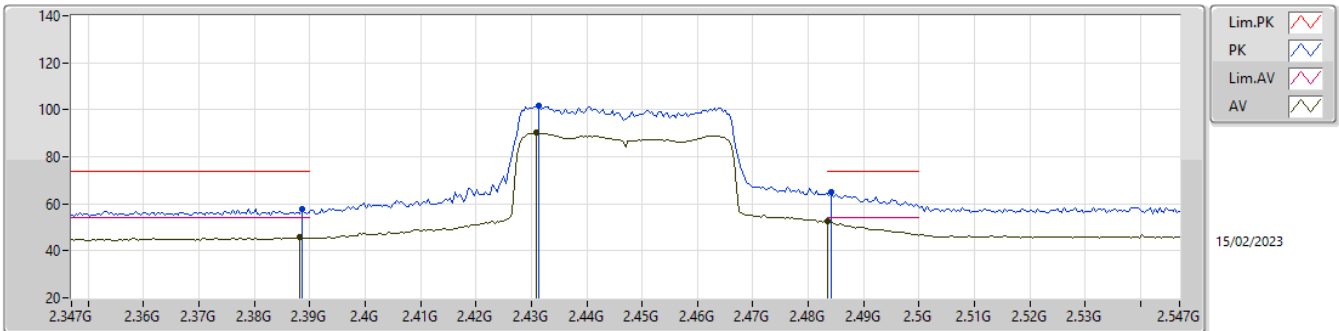
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2437MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

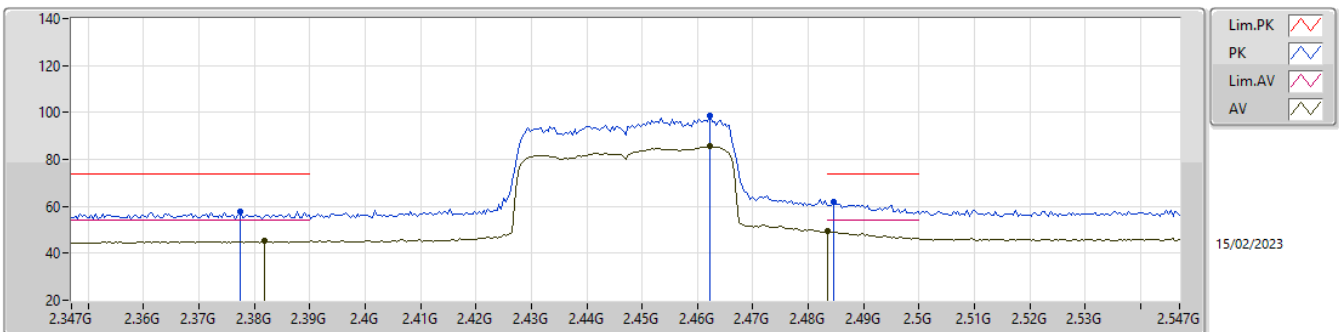
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3882G	45.62	54.00	-8.38	31.76	3	Vertical	170	1.50	13.86	27.51	4.25	-
AV	2.431G	90.22	Inf	-Inf	31.94	3	Vertical	170	1.50	58.28	27.66	4.28	-
AV	2.4835G	52.40	54.00	-1.60	32.14	3	Vertical	170	1.50	20.26	27.83	4.31	-
PK	2.3886G	57.79	74.00	-16.21	31.76	3	Vertical	170	1.50	26.03	27.51	4.25	-
PK	2.4314G	101.95	Inf	-Inf	31.94	3	Vertical	170	1.50	70.01	27.66	4.28	-
PK	2.4842G	65.13	74.00	-8.87	32.15	3	Vertical	170	1.50	32.98	27.84	4.31	-

2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

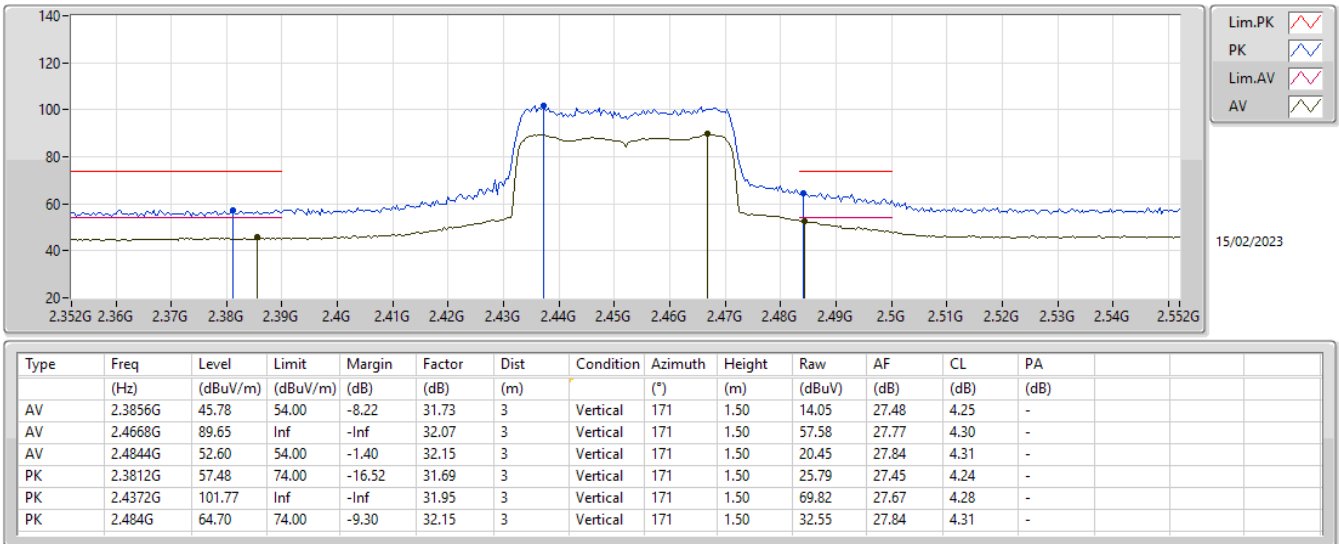
2447MHz_TX



Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Factor (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Raw (dBuV)	AF (dB)	CL (dB)	PA (dB)
AV	2.3818G	45.33	54.00	-8.67	31.69	3	Horizontal	66	1.50	13.64	27.45	4.24	-
AV	2.4622G	85.56	Inf	-Inf	32.05	3	Horizontal	66	1.50	53.51	27.75	4.30	-
AV	2.4835G	49.29	54.00	-4.71	32.14	3	Horizontal	66	1.50	17.15	27.83	4.31	-
PK	2.3774G	57.82	74.00	-16.18	31.66	3	Horizontal	66	1.50	26.16	27.42	4.24	-
PK	2.4622G	98.83	Inf	-Inf	32.05	3	Horizontal	66	1.50	66.78	27.75	4.30	-
PK	2.4846G	61.81	74.00	-12.19	32.15	3	Horizontal	66	1.50	29.66	27.84	4.31	-

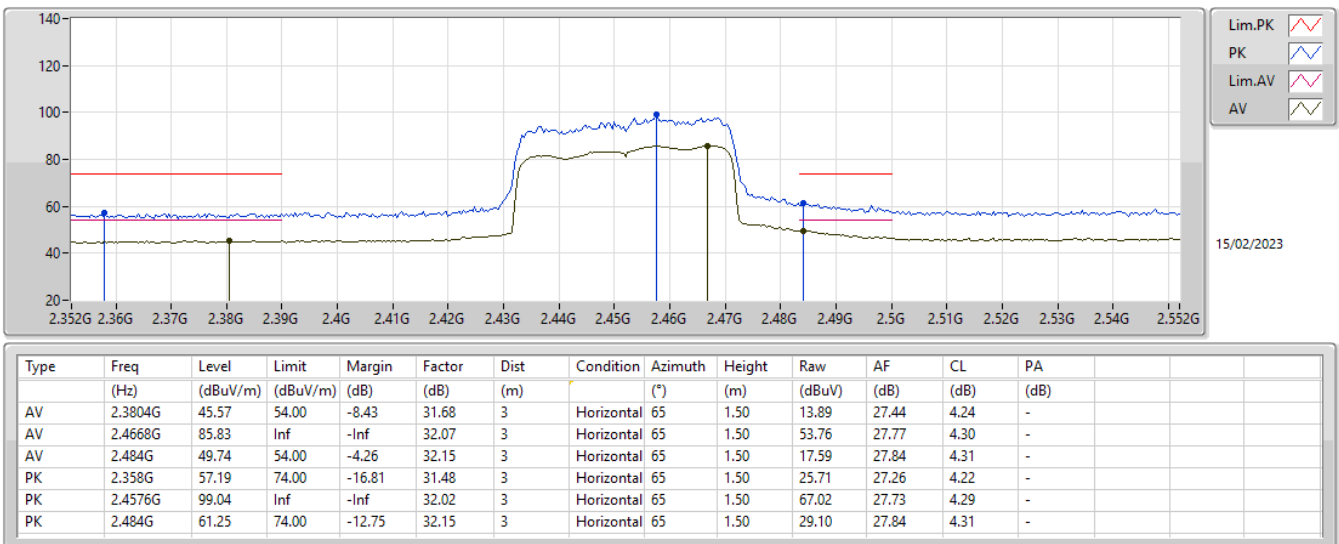
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX



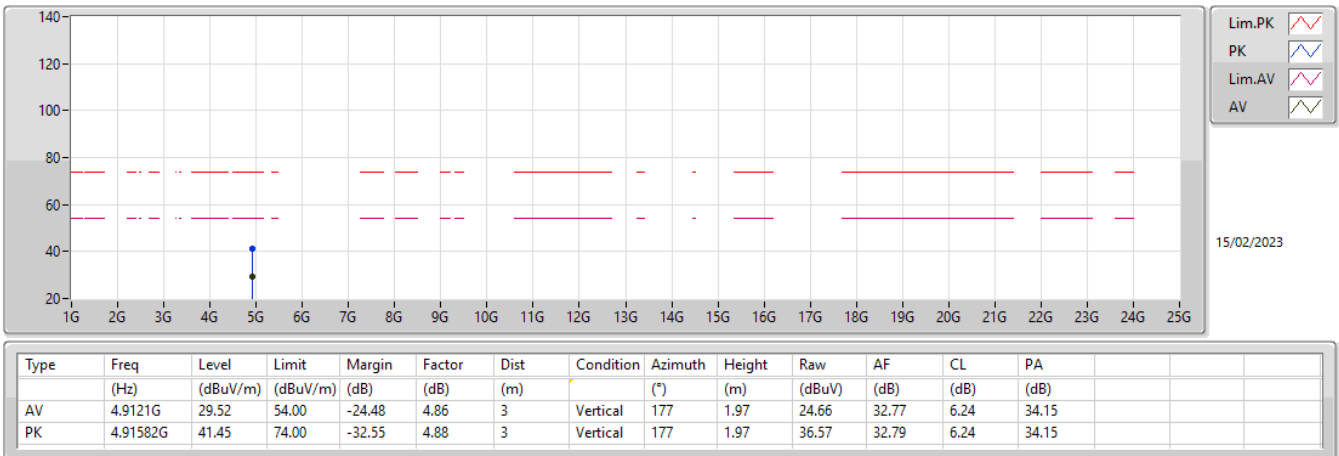
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX



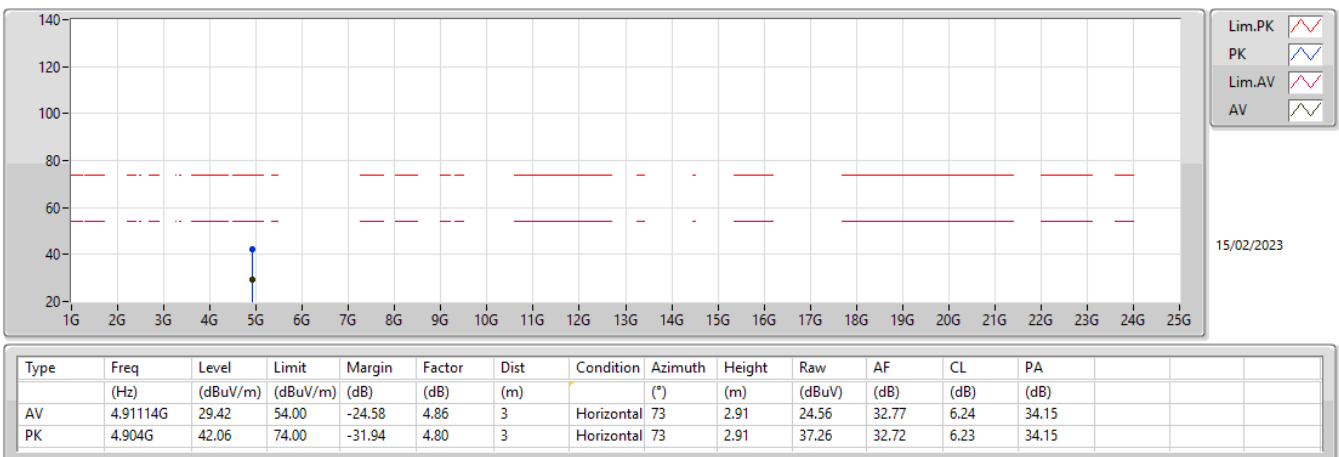
2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX



2.4-2.4835GHz_802.11ax HEW40_Nss1,(MCS0)_1TX

2452MHz_TX





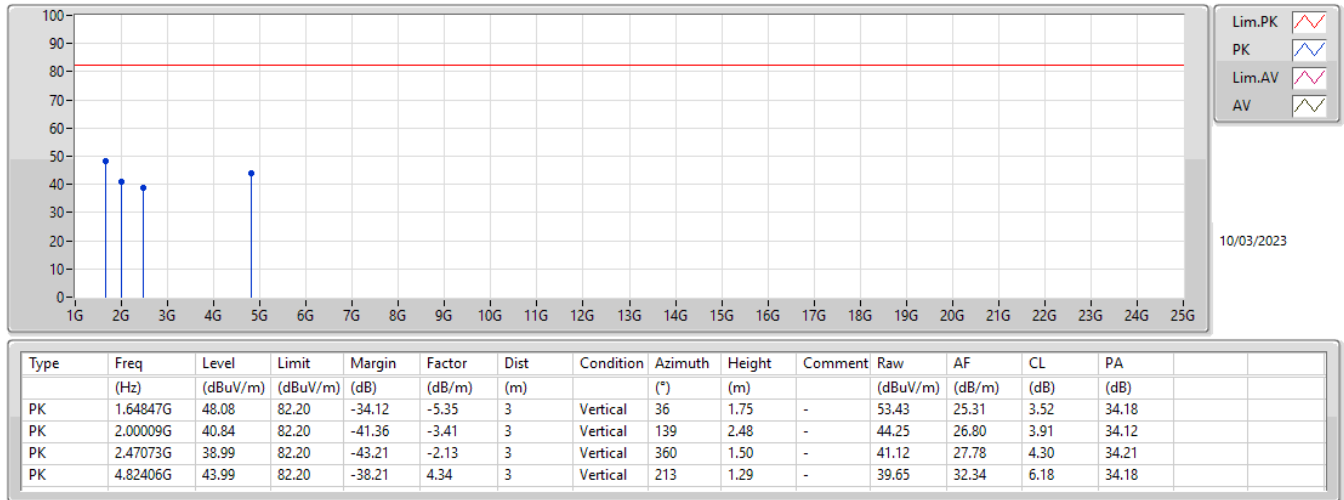
Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	PK	1.64847G	48.08	82.20	-34.12	Vertical
Mode 2	Pass	PK	10.48062G	62.03	82.20	-20.17	Vertical

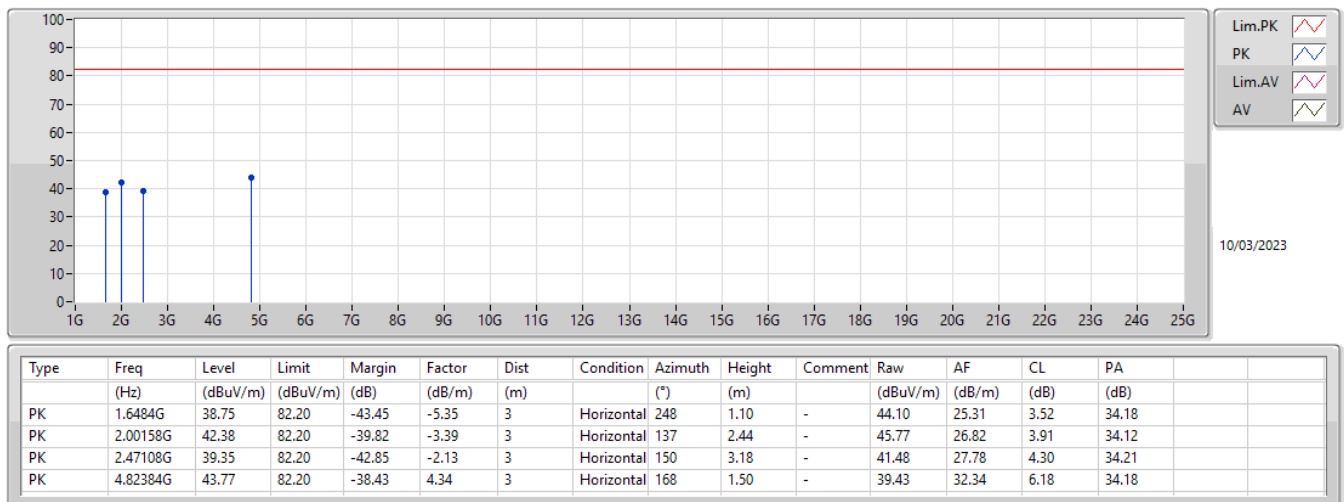
Result

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
Mode 1	Pass	PK	1.64847G	48.08	82.20	-34.12	3	Vertical	36	1.75	-
Mode 1	Pass	PK	2.00009G	40.84	82.20	-41.36	3	Vertical	139	2.48	-
Mode 1	Pass	PK	2.47073G	38.99	82.20	-43.21	3	Vertical	360	1.50	-
Mode 1	Pass	PK	4.82406G	43.99	82.20	-38.21	3	Vertical	213	1.29	-
Mode 1	Pass	PK	1.6484G	38.75	82.20	-43.45	3	Horizontal	248	1.10	-
Mode 1	Pass	PK	2.00158G	42.38	82.20	-39.82	3	Horizontal	137	2.44	-
Mode 1	Pass	PK	2.47108G	39.35	82.20	-42.85	3	Horizontal	150	3.18	-
Mode 1	Pass	PK	4.82384G	43.77	82.20	-38.43	3	Horizontal	168	1.50	-
Mode 2	Pass	PK	1.64883G	45.11	82.20	-37.09	3	Vertical	347	1.50	-
Mode 2	Pass	PK	2.00003G	40.01	82.20	-42.19	3	Vertical	236	1.50	-
Mode 2	Pass	PK	2.47238G	37.99	82.20	-44.21	3	Vertical	283	1.50	-
Mode 2	Pass	PK	10.48062G	62.03	82.20	-20.17	3	Vertical	95	1.22	-
Mode 2	Pass	PK	15.71G	42.35	82.20	-39.85	3	Vertical	360	1.50	-
Mode 2	Pass	PK	1.6482G	45.93	82.20	-36.27	3	Horizontal	346	1.17	-
Mode 2	Pass	PK	1.99987G	41.45	82.20	-40.75	3	Horizontal	237	1.50	-
Mode 2	Pass	PK	2.47244G	44.43	82.20	-37.77	3	Horizontal	316	1.77	-
Mode 2	Pass	PK	10.48062G	60.42	82.20	-21.78	3	Horizontal	106	2.88	-
Mode 2	Pass	PK	15.71355G	42.85	82.20	-39.35	3	Horizontal	0	1.50	-

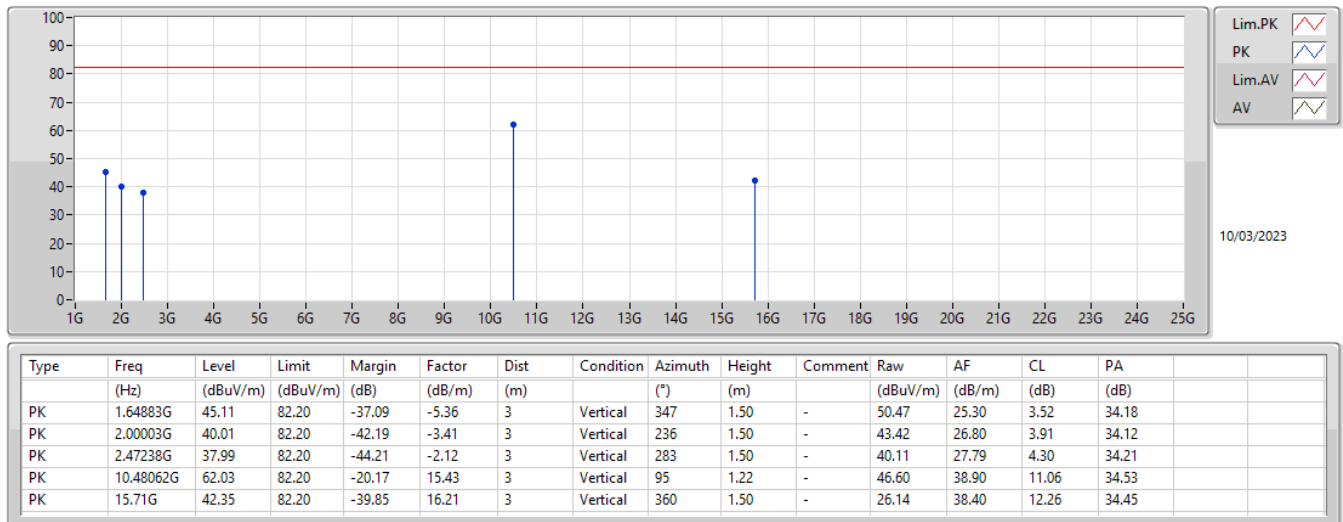
Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 1



Radiated Emissions above 1GHz_Mode 2



Radiated Emissions above 1GHz_Mode 2

