Testing Laboratory 3787

RADIO TEST REPORT

FCC ID	:	2AHKM-ARIA2513
Equipment	:	ARIA2513 4x4 11ax wifi router
Brand Name	:	Hitron
Model Name	:	ARIA2513/OS2513
Applicant	:	Hitron Technologies Inc. No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan
Manufacturer	:	Hitron Technologies Inc. No. 1-8, Li-Hsin 1st Rd. Hsinchu Science Park, Hsinchu 30078, Taiwan
Standard	:	47 CFR FCC Part 15.247

The product was received on May 16, 2022, and testing was started from Jun. 08, 2022 and completed on Aug. 26, 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
No.8, Ln. 724, Bo'ai St., Zhubei City, Hsinchu County 302010, Taiwan (R.O.C.)

Table of Contents

History of this test report

Report No.	Version	Description	Issued Date
FR251330AA	01	Initial issue of report	Sep. 29, 2022
FR251330AA	02	Revising the model name in section 1.1.5	Mar. 01, 2023

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: Vicky Huang

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	11b	20	4
2.4-2.4835GHz	11g	20	4
2.4-2.4835GHz	802.11n HT20	20	4
2.4-2.4835GHz	802.11n HT20-BF	20	4
2.4-2.4835GHz	VHT20	20	4
2.4-2.4835GHz	VHT20-BF	20	4
2.4-2.4835GHz	802.11ax HEW20	20	4
2.4-2.4835GHz	802.11ax HEW20-BF	20	4
2.4-2.4835GHz	802.11n HT40	40	4
2.4-2.4835GHz	802.11n HT40-BF	40	4
2.4-2.4835GHz	VHT40	40	4
2.4-2.4835GHz	VHT40-BF	40	4
2.4-2.4835GHz	802.11ax HEW40	40	4
2.4-2.4835GHz	802.11ax HEW40-BF	40	4

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)
1	1	PSA	RFPCA311513IMLB701	PCB	I-PEX	Note 1
2	4	PSA	RFPCA311513IMLB701	PCB	I-PEX	
3	3	PSA	RFPCA311513IMLB701	PCB	I-PEX	
4	2	PSA	RFPCA311513IMLB701	PCB	I-PEX	
5	1	PSA	RFPCA311513IMLB701	PCB	I-PEX	

Note 1:

Ant.	Port	Antenna Gain (dBi)					
		WLAN 2.4GHz	WLAN 5GHz UNII 1	WLAN 5GHz UNII 2A	WLAN 5GHz UNII 2C	WLAN 5GHz UNII 3	Bluetooth
1	1	2.33	2.59	2.18	2.68	2.17	-
2	4	3.59	2.25	2.84	2.78	2.8	-
3	3	2.52	2.65	2.72	2.43	2.57	-
4	2	2.58	2.61	3.31	2.32	2.67	-
5	1	-	-	-	-	-	2.75

Ant.	Port	Directional Gain (dBi)														
		WLAN 2.4GHz			WLAN 5GHz UNII 1			WLAN 5GHz UNII 2A			WLAN 5GHz UNII 2C			WLAN 5GHz UNII 3		
		4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S	4T1S	4T2S	4T4S
1	1	3.95	3.59	3.59	3.96	2.65	2.65	4.18	3.31	3.31	3.99	2.78	2.78	3.95	2.8	2.8
2	4															
3	3															
4	2															

Note 2: The EUT has five antennas.
Note 3: The above information (excepting antenna gain of 2.4GHz, 5GHz UNII 1~UNII 3) was declared by manufacturer.
Note 4: 2.4GHz, 5GHz UNII 1~UNII 3: Maximum Directional Gain following KDB662911 D03.
For 2.4GHz function:
For IEEE 802.11b/g/n/VHT/ax (4TX/4RX):
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For 5GHz function:
For IEEE 802.11a/n/ac/ax (4TX/4RX):
Port 1, Port 2, Port 3 and Port 4 can be used as transmitting/receiving antenna.
Port 1, Port 2, Port 3 and Port 4 could transmit/receive simultaneously.
For Bluetooth Function:
For Bluetooth mode (1TX/1RX)
Only Port 1 can be use as transmit and receive antenna.

1.1.3 Mode Test Duty Cycle

Mode	DC	DCF(dB)	T(s)	VBW(Hz) ≥ 1/T
802.11b	0.63	2.01	689u	3k
802.11g	0.962	0.17	1.977m	1k
802.11ax HEW20	0.955	0.2	5.448m	300
802.11ax HEW40	0.944	0.25	5.448m	300

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

1.1.4 EUT Operational Condition

EUT Power Type	From Power Adapter			
Beamforming Function	☒	With beamforming	☐	Without beamforming
	The product has beamforming function for 802.11n/VHT/ax in 2.4GHz and 802.11n/ac/ax in 5GHz.			
Function	☒	Point-to-multipoint	☐	Point-to-point
Test Software Version	QSPR Version 5.0-00197			

Note: The above information was declared by manufacturer.

1.1.5 Table for Multiple Listing

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

Model Name	Description
ARIA2513	All the models are identical, the difference model served as marketing strategy.
OS2513	

Note 1: From the above models, model: ARIA2513 was selected as representative model for the test and its data was recorded in this report.

Note 2: The above information was declared by manufacturer.

1.1.6 Table for EUT Supports Function

Function
AP Router
Repeater

Note1: The above information was declared by manufacturer.

Note2: After evaluating, the “AP Router” have been selected to test and recorded in the test report for AC power-line conducted emissions and Emissions in Restricted Frequency Bands below 1GHz.

1.2 Applicable Standards

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

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

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

- FCC KDB 558074 D01 v05r02
- FCC KDB 662911 D03 v01
- FCC KDB 414788 D01 v01r01

1.3 Testing Location Information

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

Test Condition	Test Site No.	Test Engineer	Test Environment (°C / %)	Test Date
RF Conducted	TH01-CB	Sean Ku	21.3~23.9 / 61~66	Jun. 10, 2022~ Jun. 22, 2022
Radiated (Below 1GHz)	03CH05-CB	Chris Lee	23.4~25.4 / 64~68	Aug. 23, 2022
Radiated (Above 1GHz)	03CH01-CB	RJ Huang	24.2-26.1 / 55-58	Jun. 08, 2022~ Jul. 07, 2022
	03CH04-CB	RJ Huang	23.8-24.9 / 55-58	Jun. 08, 2022~ Jul. 07, 2022
Radiated (Co-location)	03CH05-CB	RJ Huang	23.4~25.4 / 64~68	Aug. 23, 2022
AC Conduction	CO02-CB	Ryan Huang	22~23 / 55~56	Aug. 26, 2022

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
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

Mode	Power Setting
802.11b_Nss1,(1Mbps)_4TX	-
2412MHz	23.5
2437MHz	23.5
2462MHz	23.5
802.11g_Nss1,(6Mbps)_4TX	-
2412MHz	23
2417MHz	23
2437MHz	23.5
2457MHz	23
2462MHz	21.5
802.11ax HEW20_Nss1,(MCS0)_4TX	-
2412MHz	20.5
2417MHz	22
2437MHz	23.5
2457MHz	23
2462MHz	21.5
802.11ax HEW40_Nss1,(MCS0)_4TX	-
2422MHz	19
2437MHz	21.5
2452MHz	19
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-
2412MHz	20.5
2417MHz	22
2437MHz	23.5
2457MHz	23
2462MHz	21.5
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-
2422MHz	19
2437MHz	21.5
2452MHz	19

Note:
- Evaluated HEW20/HEW40 mode only, due to 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 (AP Router) + Adapter

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 X axis (AP Router) + Adapter
2	EUT in Y axis (AP Router) + Adapter
3	EUT in Z axis (AP Router) + Adapter
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 harmonic worst case was found at X axis and the bandedge worst case was found at Y axis. So the measurement will follow this same test configuration.
1	EUT in X axis for harmonic and EUT in Y axis for bandedge

The Worst Case Mode for Following Conformance Tests	
Tests Item	Simultaneous Transmission Analysis - Radiated Emission Co-location
Test Condition	Radiated measurement
Operating Mode	Normal Link
	The EUT was performed at X axis, Y axis and Z axis position for Unwanted Emissions above 1GHz test, and the worst case was found at X axis. So the measurement will follow this same test configuration.
1	EUT in X axis - WLAN 2.4GHz + WLAN 5GHz
Refer to Appendix G for Radiated Emission Co-location.	

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
Refer to Sporton Test Report No.: FA251330 for Co-location RF Exposure Evaluation.	

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

Accessories			
Equipment Name	**Brand Name**	**Model Name**	**Rating**
Adapter	MOSO	MS-V3000R120-036H0-US	INPUT: 100-240V, 50/60Hz, 1.0A max OUPUT: 12.0V, 3A
Other			
RJ-45 cable*1, non-shielded, 1.5m			

2.5 Support Equipment

For AC Conduction:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	WAN NB	DELL	E6430	N/A
B	LAN NB	DELL	E6430	N/A
C	2.4G NB	DELL	E6430	N/A
D	5G NB	DELL	E6430	N/A
E	I Phone	Apple	A1332	N/A

For Radiated (below 1GHz):

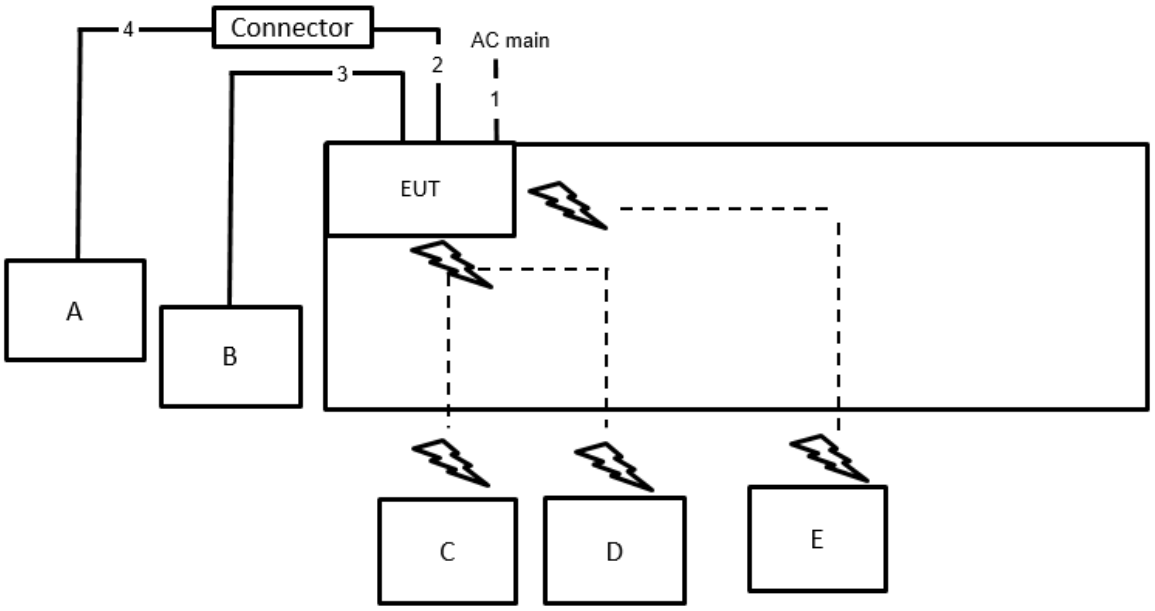
Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB (LAN)	DELL	E4300	N/A
B	NB (WiFi 2.4G)	DELL	E4300	N/A
C	NB (WiFi 5G)	DELL	E4300	N/A
D	I Pod(BT)	Apple	Nano	N/A
E	NB (WAN)	DELL	E4300	N/A

For Radiated (above 1GHz) and RF Conducted:

Support Equipment				
No.	**Equipment**	**Brand Name**	**Model Name**	**FCC ID**
A	NB	DELL	E4300	N/A

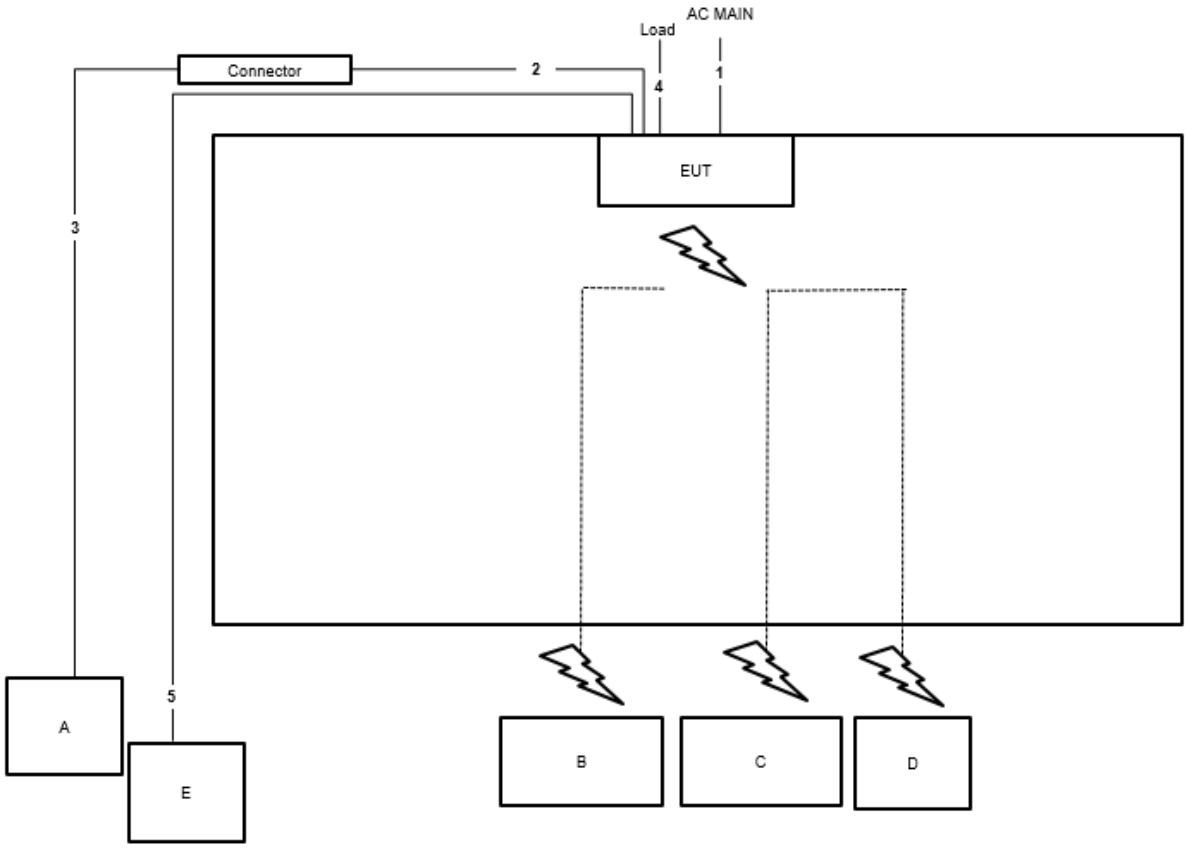
2.6 Test Setup Diagram

Test Setup Diagram – AC Line Conducted Emission Test



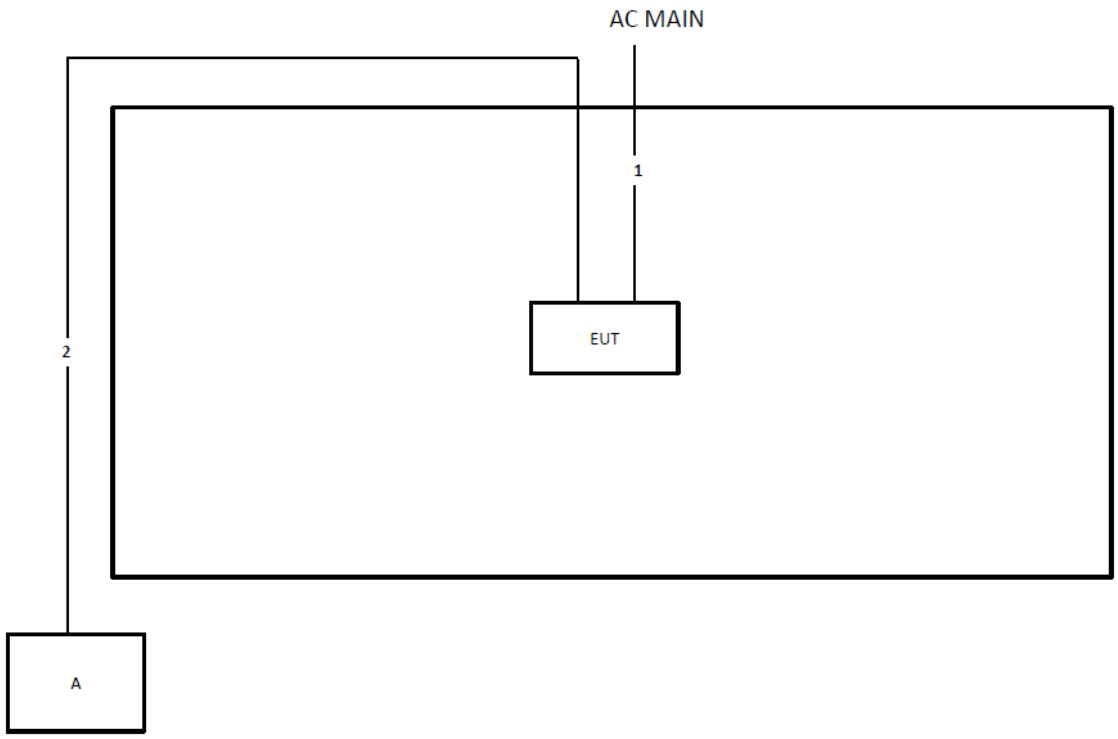
Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test < 1GHz



Item	Connection	Shielded	Length
1	Power cable	No	1.5m
2	RJ-45 cable	No	1.5m
3	RJ-45 cable	No	10m
4	RJ-45 cable*2	No	1.5m
5	RJ-45 cable	No	10m

Test Setup Diagram - Radiated Test > 1GHz



Item	Connection	Shielded	Length
1	Power 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

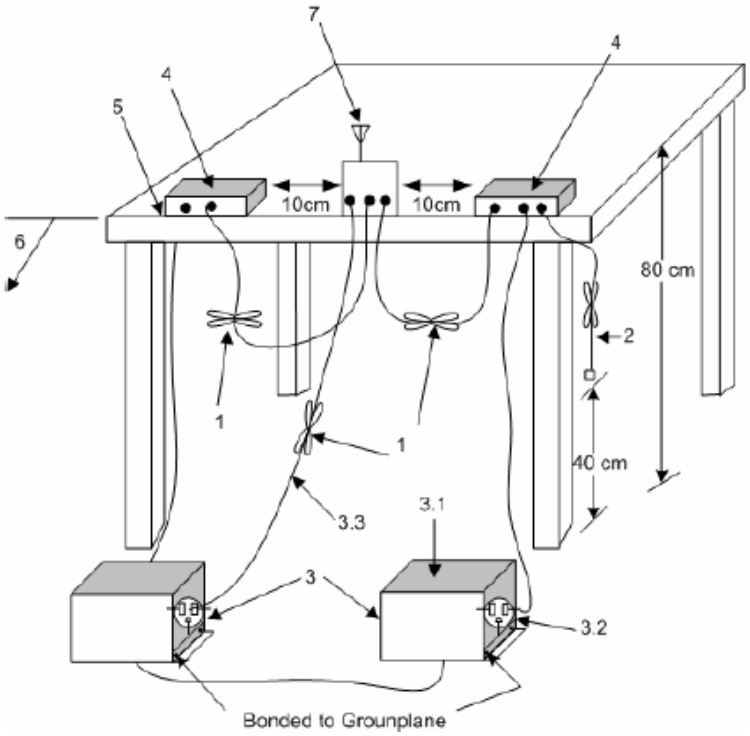
Refer a test equipment and calibration data table in this test report.

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

AC Power-line Conducted Emissions



1—Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 cm to 40 cm long.
2—The I/O cables that are not connected to an accessory shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
3—EUT connected to one LISN. Unused LISN measuring port connectors shall be terminated in 50 Ω loads. LISN may be placed on top of, or immediately beneath, reference ground plane.
3.1—All other equipment powered from additional LISN(s).
3.2—A multiple-outlet strip may be used for multiple power cords of non-EUT equipment.
3.3—LISN at least 80 cm from nearest part of EUT chassis.
4—Non-EUT components of EUT system being tested.
5—Rear of EUT, including peripherals, shall all be aligned and flush with edge of tabletop.
6—Edge of tabletop shall be 40 cm removed from a vertical conducting plane that is bonded to the ground plane.
7—Antenna can be integral or detachable. If detachable, then the antenna shall be attached for this test.

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 ≥ 500 kHz.

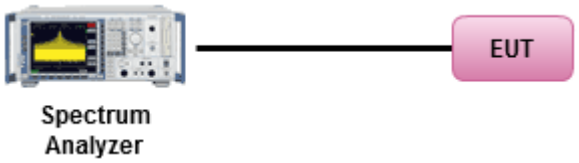
3.2.2 Measuring Instruments

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

Emission Bandwidth


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: $P_{total} = P_1 + P_2 + \ldots + P_n$ (calculated in linear unit [mW] and transfer to log unit [dBm]) $EIRP_{total} = P_{total} + DG$

3.3.4 Test Setup

Maximum Conducted Output Power (Power Meter)


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

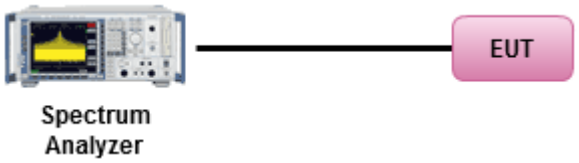
3.4.2 Measuring Instruments

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

Power Spectral Density


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

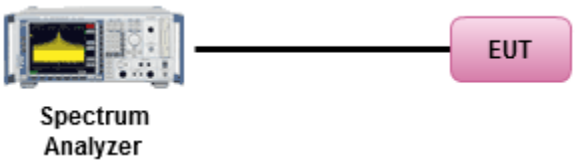
Refer a test equipment and calibration data table in this test report.

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

Emissions in Non-restricted Frequency Bands



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.

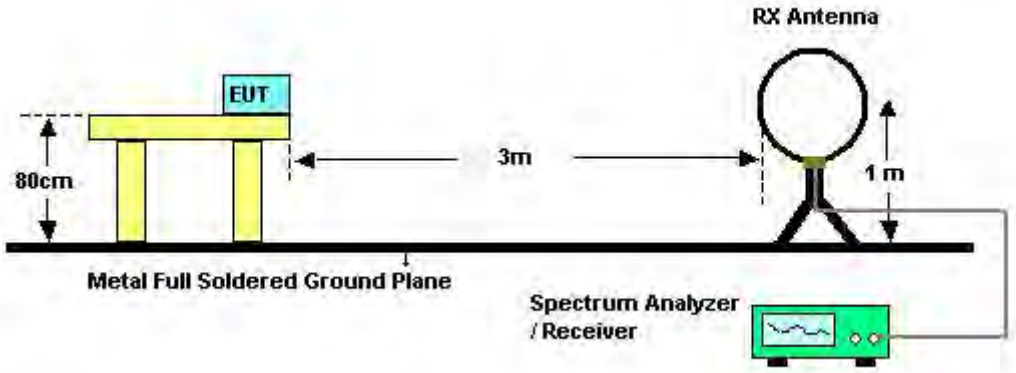
3.6.3 Test Procedures

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

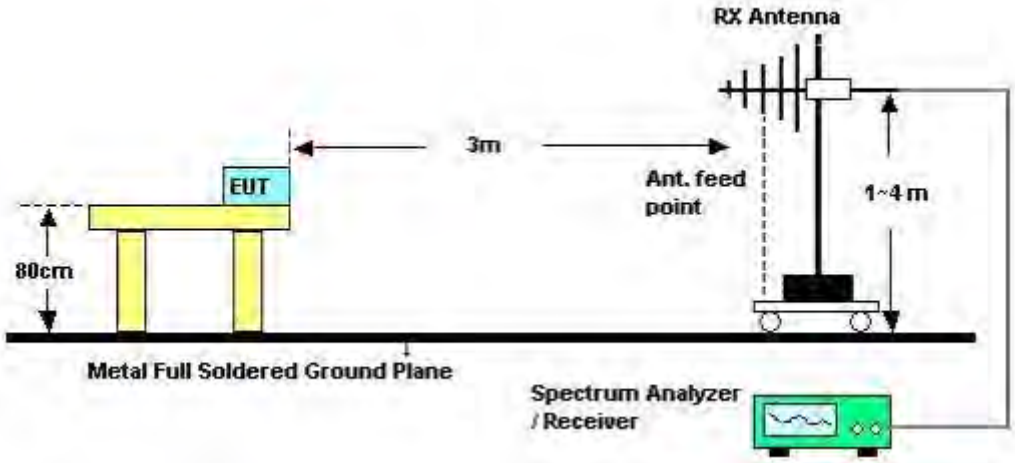
3.6.4 Test Setup

Radiated - Emissions in Restricted Frequency Bands

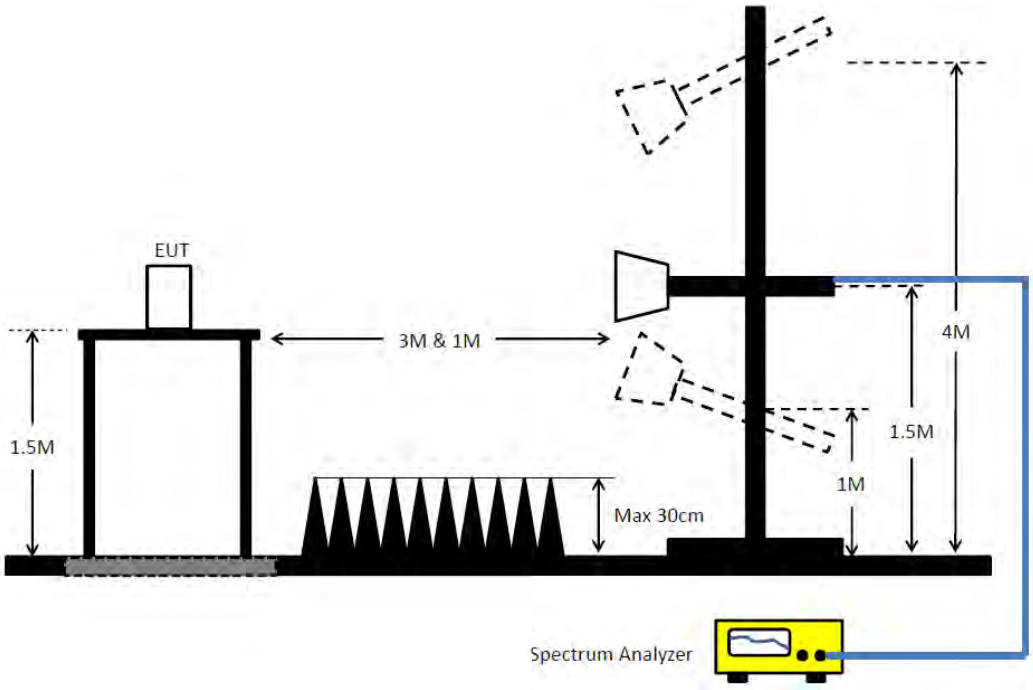
9kHz ~30MHz



30MHz~1GHz



Above 1GHz



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
LISN	Schwarzbeck	NSLK 8127	8127650	9kHz ~ 30MHz	Jan. 07, 2022	Jan. 06, 2023	Conduction (CO02-CB)
LISN	Schwarzbeck	NSLK 8127	8127478	9kHz ~ 30MHz	Dec. 22, 2021	Dec. 21, 2022	Conduction (CO02-CB)
EMI Receiver	Agilent	N9038A	MY52260140	9kHz ~ 8.4GHz	May 06, 2022	May 05, 2023	Conduction (CO02-CB)
COND Cable	Woken	Cable	2	0.15MHz ~ 30MHz	Oct. 19, 2021	Oct. 18, 2022	Conduction (CO02-CB)
Pulse Limiter	Schwarzbeck	VTSD 9561F-N	00378	9kHz ~ 30MHz	Mar. 18, 2022	Mar. 17, 2023	Conduction (CO02-CB)
Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Conduction (CO02-CB)
3m Semi Anechoic Chamber NSA	TDK	SAC-3M	03CH05-CB	30 MHz ~ 1 GHz	Aug. 03, 2022	Aug. 02, 2023	Radiation (03CH05-CB)
Loop Antenna	Teseq	HLA 6120	24155	9kHz - 30 MHz	May 14, 2022	May 13, 2023	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH05-CB	1GHz ~18GHz 3m	Nov. 07, 2021	Nov. 06, 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)
Horn Antenna	SCHWARZBECK	BBHA9120D	BBHA 9120 D-1291	1GHz~18GHz	Jun. 23, 2022	Jun. 22, 2023	Radiation (03CH05-CB)
Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170507	15GHz ~ 40GHz	Jul. 05, 2022	Jul. 04, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC330N	980331	20MHz ~ 3GHz	Apr. 26, 2022	Apr. 25, 2023	Radiation (03CH05-CB)
Pre-Amplifier	EMCI	EMC12630SE	980287	1GHz – 26.5GHz	Jul. 01, 2022	Jun. 30, 2023	Radiation (03CH05-CB)
Pre-Amplifier	-	-	TF-130N-R1	18GHz ~ 40GHz	Jun. 21, 2022	Jun. 20, 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)
RF Cable-high	Woken	RG402	High Cable-28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
RF Cable-high	Woken	RG402	High Cable-04+28	1GHz~18GHz	Oct. 13, 2021	Oct. 12, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)

Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH05-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH05-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH05-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH01-CB	1GHz ~18GHz 3m	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
Horn Antenna	ETS-LINDGREN	3115	00075790	750MHz ~ 18GHz	Nov. 06, 2021	Nov. 05, 2022	Radiation (03CH01-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH01-CB)
Pre-Amplifier	Agilent	8449B	3008A02121	1GHz ~ 26.5GHz	May 19, 2022	May 18, 2023	Radiation (03CH01-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH01-CB)
Spectrum Analyzer	R&S	FSP40	100056	9kHz ~ 40GHz	May 06, 2022	May 05, 2023	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
RF Cable-high	Woken	RG402	High Cable-16+17	1 GHz ~ 18 GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH01-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH01-CB)
Test Software	Audix	E3	6.2009-l0-7	-	N.C.R.	N.C.R.	Radiation (03CH01-CB)
3m Semi Anechoic Chamber VSWR	TDK	SAC-3M	03CH04-CB	1GHz ~18GHz 3m	Feb. 24, 2022	Feb. 23, 2023	Radiation (03CH04-CB)
Horn Antenna	ETS・Lindgren	3115	00143147	750MHz~18GHz	Oct. 25, 2021	Oct. 24, 2022	Radiation (03CH04-CB)
Horn Antenna	Schwarzbeck	BBHA 9170	BBHA9170252	15GHz ~ 40GHz	Aug. 05, 2021	Aug. 04, 2022	Radiation (03CH04-CB)
Pre-Amplifier	Agilent	83017A	MY53270063	0.5GHz ~ 26.5GHz	Jul. 12, 2021	Jul. 11, 2022	Radiation (03CH04-CB)
Pre-Amplifier	MITEQ	TTA1840-35-HG	1864479	18GHz ~ 40GHz	Jul. 13, 2021	Jul. 12, 2022	Radiation (03CH04-CB)
Spectrum Analyzer	R&S	FSP40	100142	9kHz~40GHz	Mar. 28, 2022	Mar. 27, 2023	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)
RF Cable-high	Woken	RG402	High Cable-21+67	1GHz - 18GHz	Oct. 04, 2021	Oct. 03, 2022	Radiation (03CH04-CB)

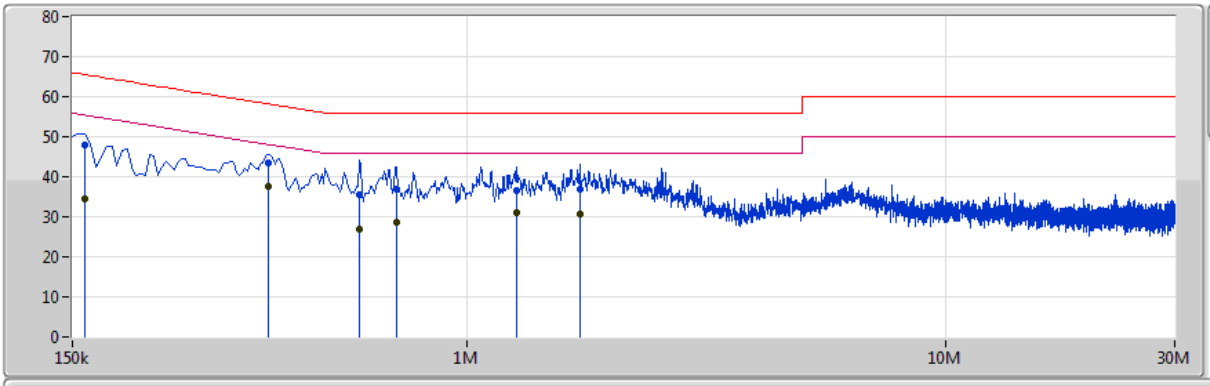
Instrument	Brand	Model No.	Serial No.	Characteristics	Calibration Date	Calibration Due Date	Remark
High Cable	Woken	WCA0929M	40G#5+7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#5	1GHz ~ 40 GHz	Dec. 08, 2021	Dec. 07, 2022	Radiation (03CH04-CB)
High Cable	Woken	WCA0929M	40G#7	1GHz ~ 40 GHz	Dec. 14, 2021	Dec. 13, 2022	Radiation (03CH04-CB)
Test Software	SPORTON	SENSE	V5.10	-	N.C.R.	N.C.R.	Radiation (03CH04-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)
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)

Note: Calibration Interval of instruments listed above is one year.
NCR means Non-Calibration required.

Summary

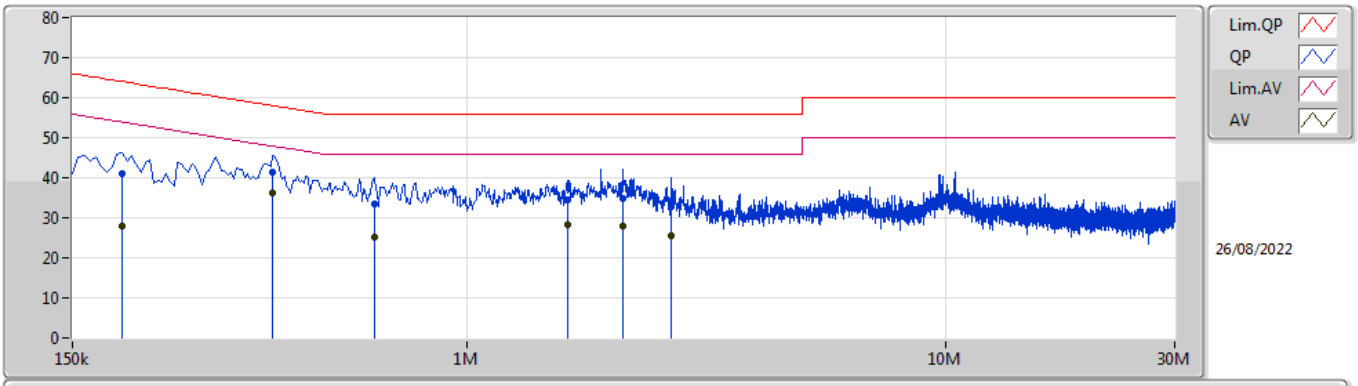
Mode	Result	Type	Freq (Hz)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Condition
Mode 1	Pass	AV	384k	37.62	48.20	-10.58	Line

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)
QP	159k	47.77	65.52	-17.75	10.24	Line	-	37.53	0.12	0.02	10.10
AV	159k	34.51	55.52	-21.01	10.24	Line	-	24.27	0.12	0.02	10.10
QP	384k	43.60	58.20	-14.60	10.25	Line	-	33.35	0.12	0.02	10.11
AV	384k	37.62	48.20	-10.58	10.25	Line	"Worst"	27.37	0.12	0.02	10.11
QP	595.5k	35.55	56.00	-20.45	10.27	Line	-	25.28	0.13	0.02	10.12
AV	595.5k	27.01	46.00	-18.99	10.27	Line	-	16.74	0.13	0.02	10.12
QP	712.5k	36.95	56.00	-19.05	10.28	Line	-	26.67	0.13	0.02	10.13
AV	712.5k	28.47	46.00	-17.53	10.28	Line	-	18.19	0.13	0.02	10.13
QP	1.271M	36.65	56.00	-19.35	10.32	Line	-	26.33	0.15	0.03	10.14
AV	1.271M	30.87	46.00	-15.13	10.32	Line	-	20.55	0.15	0.03	10.14
QP	1.716M	36.96	56.00	-19.04	10.35	Line	-	26.61	0.16	0.04	10.15
AV	1.716M	30.55	46.00	-15.45	10.35	Line	-	20.20	0.16	0.04	10.15

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Condition	Comment	Raw	LISN	CL	AT			
	(Hz)	(dBuV)	(dBuV)	(dB)	(dB)			(dBuV)	(dB)	(dB)	(dB)			
QP	190.5k	40.97	64.01	-23.04	10.25	Neutral	-	30.72	0.16	0.02	10.07			
AV	190.5k	27.81	54.01	-26.20	10.25	Neutral	-	17.56	0.16	0.02	10.07			
QP	393k	41.54	58.01	-16.47	10.29	Neutral	-	31.25	0.16	0.02	10.11			
AV	393k	36.26	48.01	-11.75	10.29	Neutral	"Worst"	25.97	0.16	0.02	10.11			
QP	640.5k	33.43	56.00	-22.57	10.32	Neutral	-	23.11	0.17	0.02	10.13			
AV	640.5k	25.09	46.00	-20.91	10.32	Neutral	-	14.77	0.17	0.02	10.13			
QP	1.626M	34.58	56.00	-21.42	10.37	Neutral	-	24.21	0.18	0.04	10.15			
AV	1.626M	28.31	46.00	-17.69	10.37	Neutral	-	17.94	0.18	0.04	10.15			
QP	2.108M	34.95	56.00	-21.05	10.39	Neutral	-	24.56	0.19	0.05	10.15			
AV	2.108M	27.95	46.00	-18.05	10.39	Neutral	-	17.56	0.19	0.05	10.15			
QP	2.674M	32.80	56.00	-23.20	10.43	Neutral	-	22.37	0.20	0.06	10.17			
AV	2.674M	25.66	46.00	-20.34	10.43	Neutral	-	15.23	0.20	0.06	10.17			

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)_4TX	8.075M	12.969M	13M0G1D	7.05M	12.869M
802.11g_Nss1,(6Mbps)_4TX	16.325M	16.542M	16M5D1D	15.9M	16.417M
802.11ax HEW20_Nss1,(MCS0)_4TX	18.95M	18.991M	19M0D1D	18.65M	18.891M
802.11ax HEW40_Nss1,(MCS0)_4TX	38.1M	37.981M	38M0D1D	35.6M	37.681M

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

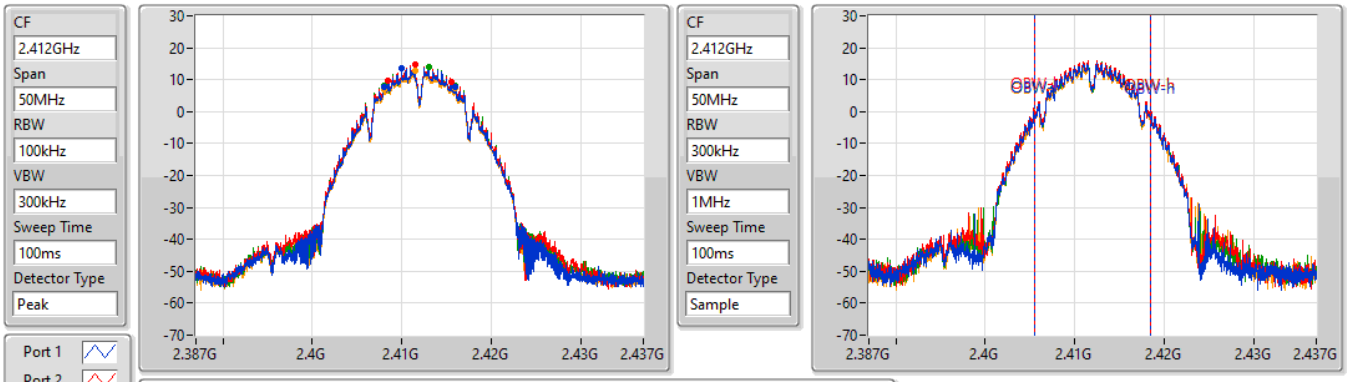
Mode	Result	Limit (Hz)	Port 1-N dB (Hz)	Port 1-OBW (Hz)	Port 2-N dB (Hz)	Port 2-OBW (Hz)	Port 3-N dB (Hz)	Port 3-OBW (Hz)	Port 4-N dB (Hz)	Port 4-OBW (Hz)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	8M	12.894M	7.05M	12.944M	8M	12.919M	8.025M	12.944M
2437MHz	Pass	500k	8.075M	12.919M	7.075M	12.944M	8M	12.969M	7.975M	12.944M
2462MHz	Pass	500k	7.05M	12.869M	7.575M	12.919M	7.525M	12.944M	7.525M	12.894M
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	16.3M	16.442M	16.025M	16.417M	16.3M	16.467M	16.3M	16.417M
2437MHz	Pass	500k	16.325M	16.442M	16.3M	16.417M	16.3M	16.542M	16.3M	16.442M
2462MHz	Pass	500k	16.325M	16.417M	15.9M	16.442M	16.3M	16.492M	16.25M	16.417M
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	500k	18.875M	18.916M	18.9M	18.891M	18.8M	18.991M	18.95M	18.941M
2437MHz	Pass	500k	18.95M	18.941M	18.775M	18.941M	18.95M	18.991M	18.9M	18.941M
2462MHz	Pass	500k	18.875M	18.941M	18.65M	18.916M	18.925M	18.991M	18.925M	18.966M
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	500k	37.1M	37.931M	37.35M	37.881M	35.6M	37.781M	37.75M	37.831M
2437MHz	Pass	500k	37.15M	37.931M	37.7M	37.931M	37.45M	37.831M	37.85M	37.981M
2452MHz	Pass	500k	38.1M	37.931M	37.85M	37.931M	36.55M	37.681M	38M	37.881M

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

802.11b_Nss1,(1Mbps)_4TX EBW

2412MHz

10/06/2022

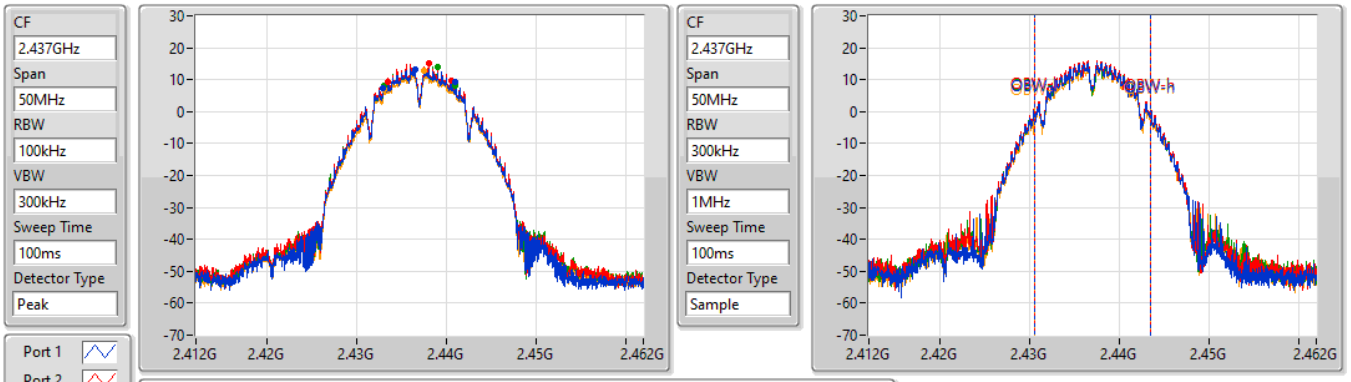


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8M	2.408G	2.416G	12.894M	2.405528G	2.418422G	500k	1
7.05M	2.408475G	2.415525G	12.944M	2.405503G	2.418447G	500k	2
8M	2.407975G	2.415975G	12.919M	2.405553G	2.418472G	500k	3
8.025M	2.407975G	2.416G	12.944M	2.405528G	2.418472G	500k	4

802.11b_Nss1,(1Mbps)_4TX EBW

2437MHz

10/06/2022

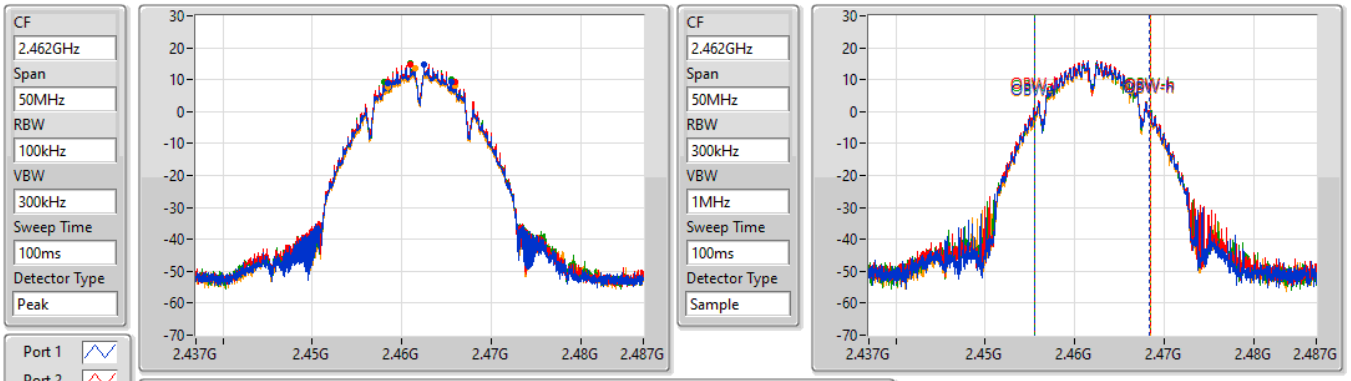


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
8.075M	2.43295G	2.441025G	12.919M	2.430503G	2.443422G	500k	1
7.075M	2.43345G	2.440525G	12.944M	2.430503G	2.443447G	500k	2
8M	2.433G	2.441G	12.969M	2.430503G	2.443472G	500k	3
7.975M	2.433G	2.440975G	12.944M	2.430528G	2.443472G	500k	4

802.11b_Nss1,(1Mbps)_4TX EBW

2462MHz

10/06/2022

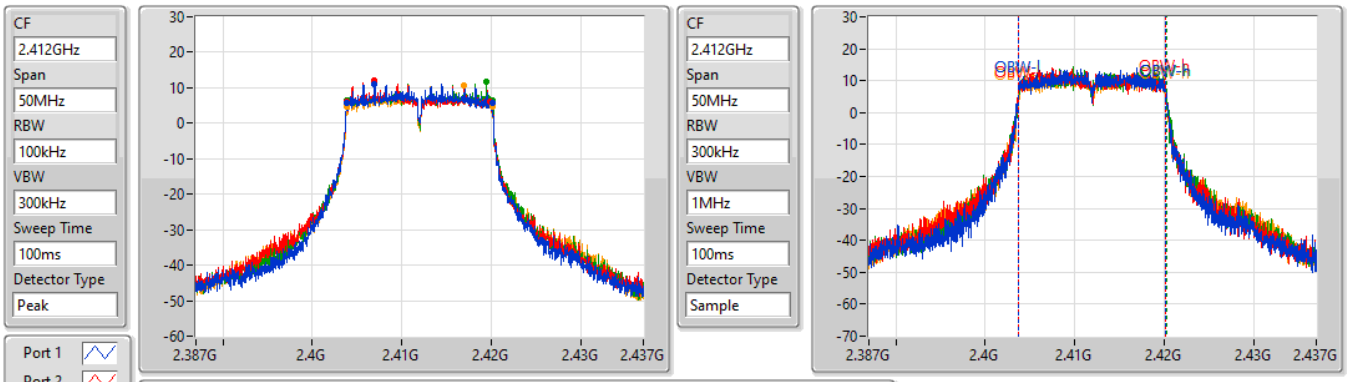


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
7.05M	2.45845G	2.4655G	12.869M	2.455528G	2.468397G	500k	1
7.575M	2.45845G	2.466025G	12.919M	2.455503G	2.468422G	500k	2
7.525M	2.457975G	2.4655G	12.944M	2.455528G	2.468472G	500k	3
7.525M	2.45845G	2.465975G	12.894M	2.455553G	2.468447G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2412MHz

10/06/2022

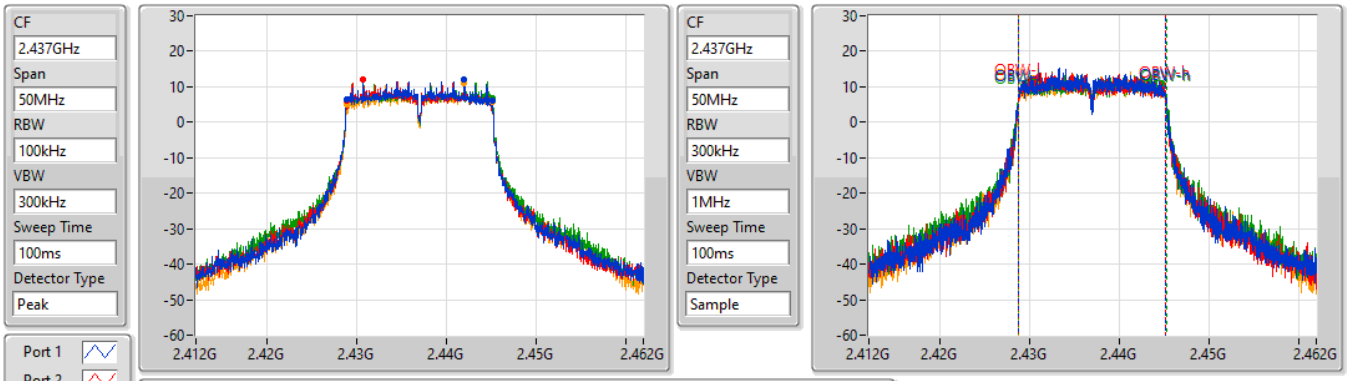


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.3M	2.403825G	2.420125G	16.442M	2.403729G	2.420171G	500k	1
16.025M	2.40385G	2.419875G	16.417M	2.403754G	2.420171G	500k	2
16.3M	2.40385G	2.42015G	16.467M	2.403754G	2.420221G	500k	3
16.3M	2.40385G	2.42015G	16.417M	2.403779G	2.420196G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2437MHz

10/06/2022

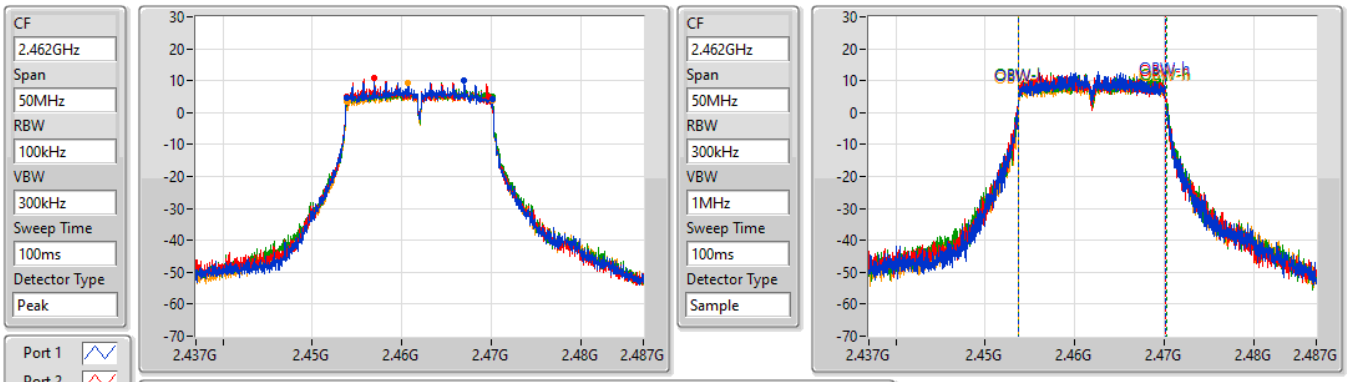


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.428825G	2.44515G	16.442M	2.428754G	2.445196G	500k	1
16.3M	2.428825G	2.445125G	16.417M	2.428754G	2.445171G	500k	2
16.3M	2.42885G	2.44515G	16.542M	2.428729G	2.445271G	500k	3
16.3M	2.42885G	2.44515G	16.442M	2.428779G	2.445221G	500k	4

802.11g_Nss1,(6Mbps)_4TX EBW

2462MHz

10/06/2022

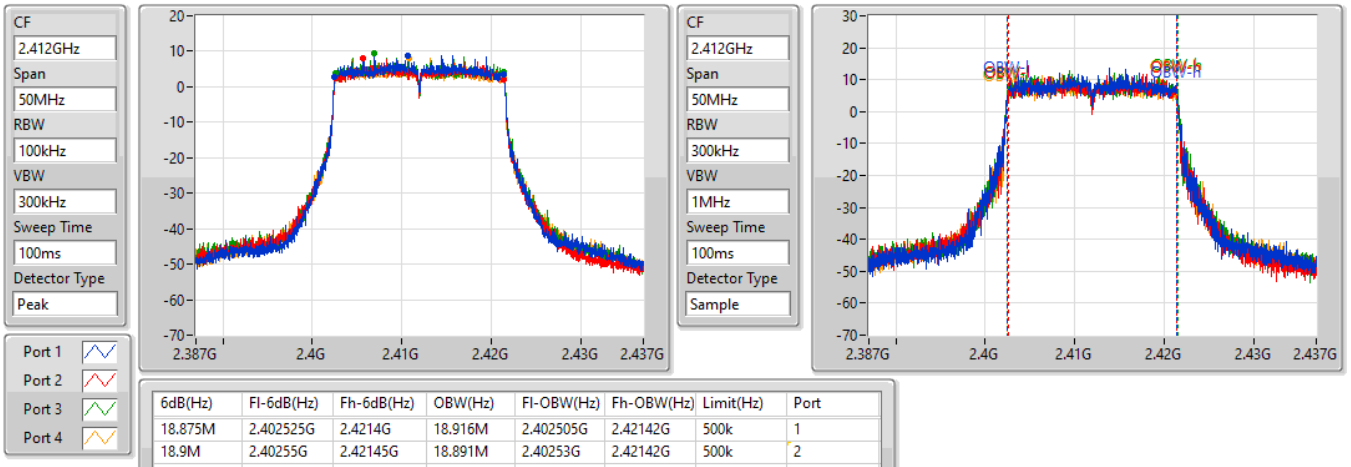


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
16.325M	2.453825G	2.47015G	16.417M	2.453754G	2.470171G	500k	1
15.9M	2.45385G	2.46975G	16.442M	2.453754G	2.470196G	500k	2
16.3M	2.45385G	2.47015G	16.492M	2.453754G	2.470246G	500k	3
16.25M	2.453875G	2.470125G	16.417M	2.453779G	2.470196G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2412MHz

10/06/2022

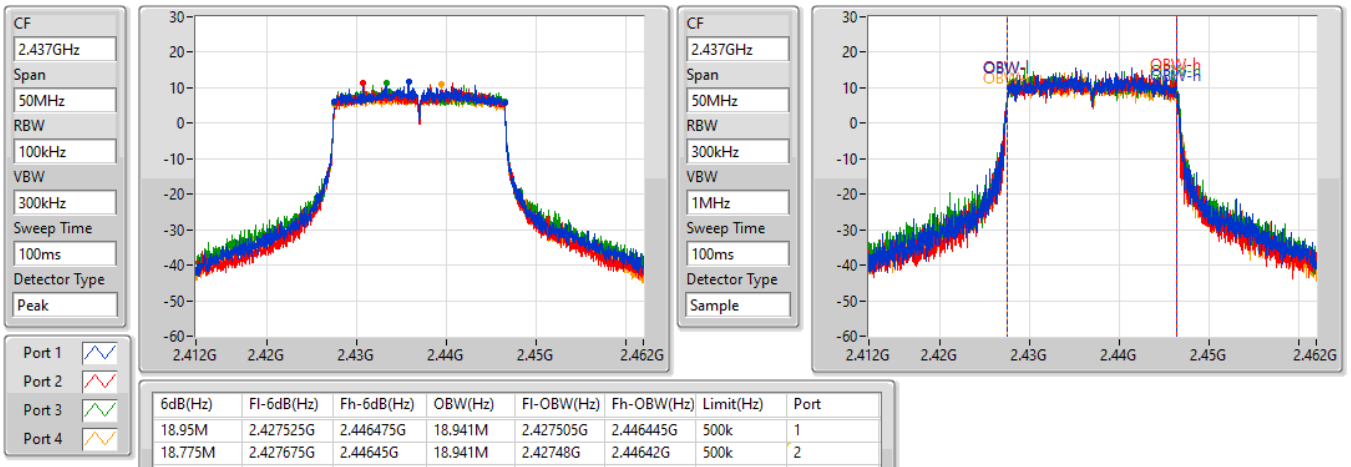


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.875M	2.402525G	2.4214G	18.916M	2.402505G	2.42142G	500k	1
18.9M	2.40255G	2.42145G	18.891M	2.40253G	2.42142G	500k	2
18.8M	2.4026G	2.4214G	18.991M	2.402505G	2.421495G	500k	3
18.95M	2.4025G	2.42145G	18.941M	2.402505G	2.421445G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2437MHz

10/06/2022

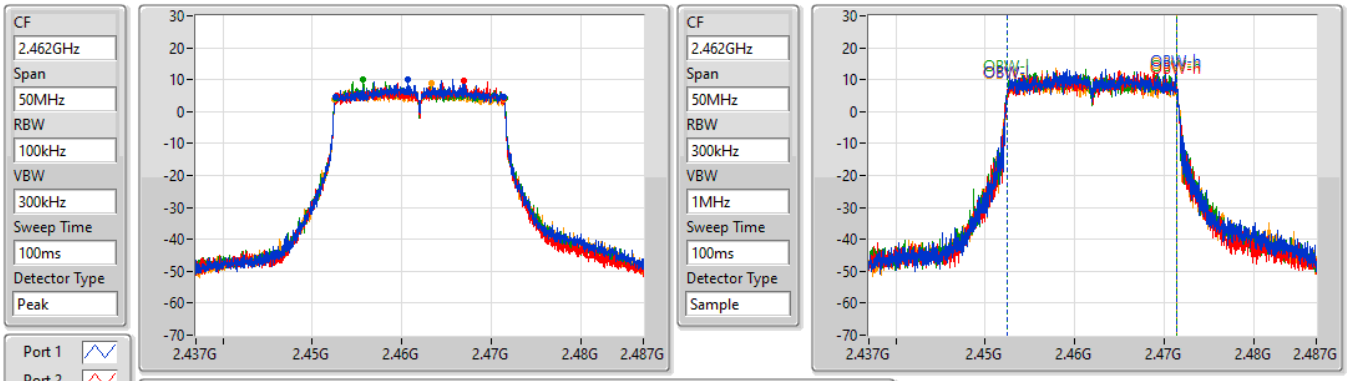


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.95M	2.427525G	2.446475G	18.941M	2.427505G	2.446445G	500k	1
18.775M	2.427675G	2.44645G	18.941M	2.42748G	2.44642G	500k	2
18.95M	2.427525G	2.446475G	18.991M	2.42748G	2.44647G	500k	3
18.9M	2.427525G	2.446425G	18.941M	2.427505G	2.446445G	500k	4

802.11ax HEW20_Nss1,(MCS0)_4TX EBW

2462MHz

10/06/2022

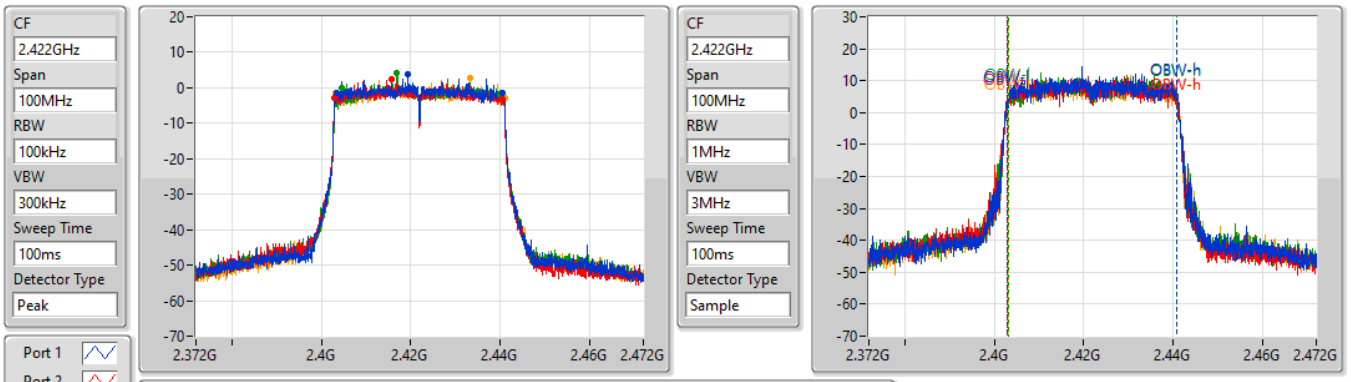


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
18.875M	2.45255G	2.471425G	18.941M	2.452505G	2.471445G	500k	1
18.65M	2.452725G	2.471375G	18.916M	2.452505G	2.47142G	500k	2
18.925M	2.45255G	2.471475G	18.991M	2.45248G	2.47147G	500k	3
18.925M	2.452525G	2.47145G	18.966M	2.45248G	2.471445G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2422MHz

10/06/2022

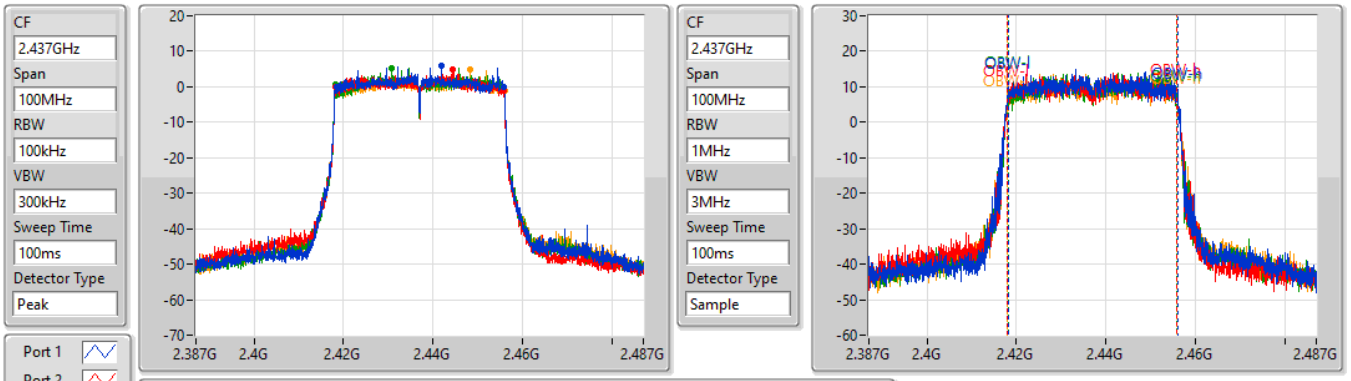


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.1M	2.4035G	2.4406G	37.931M	2.403009G	2.440941G	500k	1
37.35M	2.40305G	2.4404G	37.881M	2.40296G	2.440841G	500k	2
35.6M	2.4045G	2.4401G	37.781M	2.403109G	2.440891G	500k	3
37.75M	2.4032G	2.44095G	37.831M	2.403059G	2.440891G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2437MHz

10/06/2022

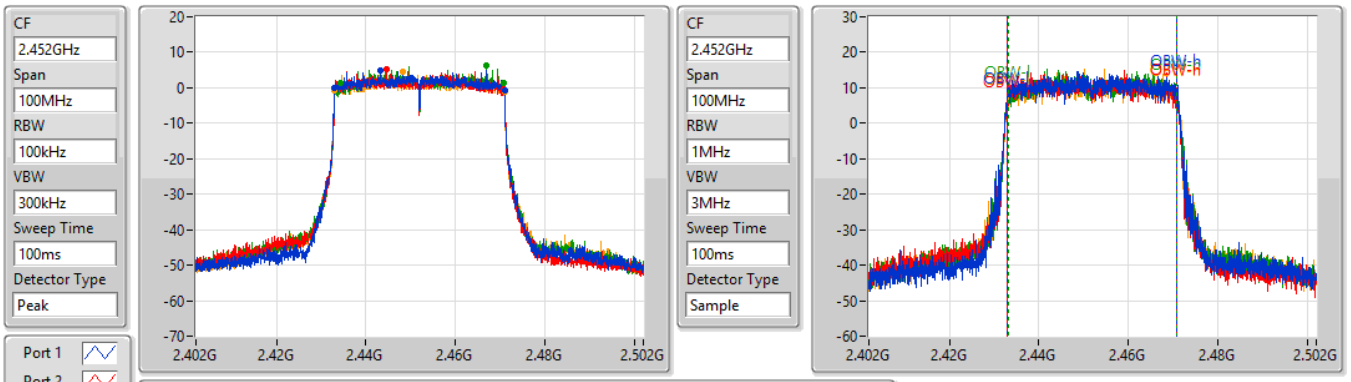


6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
37.15M	2.41855G	2.4557G	37.931M	2.418059G	2.455991G	500k	1
37.7M	2.41815G	2.45585G	37.931M	2.41796G	2.455891G	500k	2
37.45M	2.4182G	2.45565G	37.831M	2.418109G	2.455941G	500k	3
37.85M	2.4181G	2.45595G	37.981M	2.41796G	2.455941G	500k	4

802.11ax HEW40_Nss1,(MCS0)_4TX EBW

2452MHz

07/07/2022



6dB(Hz)	Fl-6dB(Hz)	Fh-6dB(Hz)	OBW(Hz)	Fl-OBW(Hz)	Fh-OBW(Hz)	Limit(Hz)	Port
38.1M	2.4329G	2.471G	37.931M	2.433009G	2.470941G	500k	1
37.85M	2.433G	2.47085G	37.931M	2.433009G	2.470941G	500k	2
36.55M	2.43435G	2.4709G	37.681M	2.433159G	2.470841G	500k	3
38M	2.43295G	2.47095G	37.881M	2.433059G	2.470941G	500k	4

Summary

Mode	Total Power (dBm)	Total Power (W)
2.4-2.4835GHz	-	-
802.11b_Nss1,(1Mbps)_4TX	29.57	0.90573
802.11g_Nss1,(6Mbps)_4TX	29.68	0.92897
802.11ax HEW20_Nss1,(MCS0)_4TX	29.73	0.93972
802.11ax HEW40_Nss1,(MCS0)_4TX	28.13	0.65013
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	29.73	0.93972
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	28.13	0.65013

Result

Mode	Result	DG (dBi)	Port 1 (dBm)	Port 2 (dBm)	Port 3 (dBm)	Port 4 (dBm)	Total Power (dBm)	Power Limit (dBm)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.59	23.29	24.13	23.73	22.82	29.54	30.00
2437MHz	Pass	3.59	23.32	24.20	23.80	22.72	29.57	30.00
2462MHz	Pass	3.59	23.22	24.22	23.78	22.58	29.51	30.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.59	23.36	23.24	23.54	22.77	29.26	30.00
2417MHz	Pass	3.59	23.25	23.18	23.53	22.69	29.19	30.00
2437MHz	Pass	3.59	23.69	23.84	23.84	23.22	29.68	30.00
2457MHz	Pass	3.59	23.46	23.62	23.56	22.83	29.40	30.00
2462MHz	Pass	3.59	22.10	22.09	22.32	21.40	28.01	30.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.59	21.34	20.95	21.21	20.53	27.04	30.00
2417MHz	Pass	3.59	22.69	22.22	22.52	21.99	28.38	30.00
2437MHz	Pass	3.59	24.09	23.77	23.83	23.08	29.73	30.00
2457MHz	Pass	3.59	23.87	23.53	23.61	22.81	29.49	30.00
2462MHz	Pass	3.59	22.45	21.74	22.24	21.52	28.02	30.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.59	19.80	19.64	20.04	19.36	25.74	30.00
2437MHz	Pass	3.59	22.30	22.10	22.36	21.65	28.13	30.00
2452MHz	Pass	3.59	20.12	19.68	20.25	19.53	25.93	30.00
802.11ax HEW20-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.95	21.34	20.95	21.21	20.53	27.04	30.00
2417MHz	Pass	3.95	22.69	22.22	22.52	21.99	28.38	30.00
2437MHz	Pass	3.95	24.09	23.77	23.83	23.08	29.73	30.00
2457MHz	Pass	3.95	23.87	23.53	23.61	22.81	29.49	30.00
2462MHz	Pass	3.95	22.45	21.74	22.24	21.52	28.02	30.00
802.11ax HEW40-BF_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.95	19.80	19.64	20.04	19.36	25.74	30.00
2437MHz	Pass	3.95	22.30	22.10	22.36	21.65	28.13	30.00
2452MHz	Pass	3.95	20.12	19.68	20.25	19.53	25.93	30.00

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

Summary

Mode	PD (dBm/RBW)
2.4-2.4835GHz	-
802.11b_Nss1,(1Mbps)_4TX	5.28
802.11g_Nss1,(6Mbps)_4TX	0.02
802.11ax HEW20_Nss1,(MCS0)_4TX	0.29
802.11ax HEW40_Nss1,(MCS0)_4TX	-4.75

RBW = 3kHz;

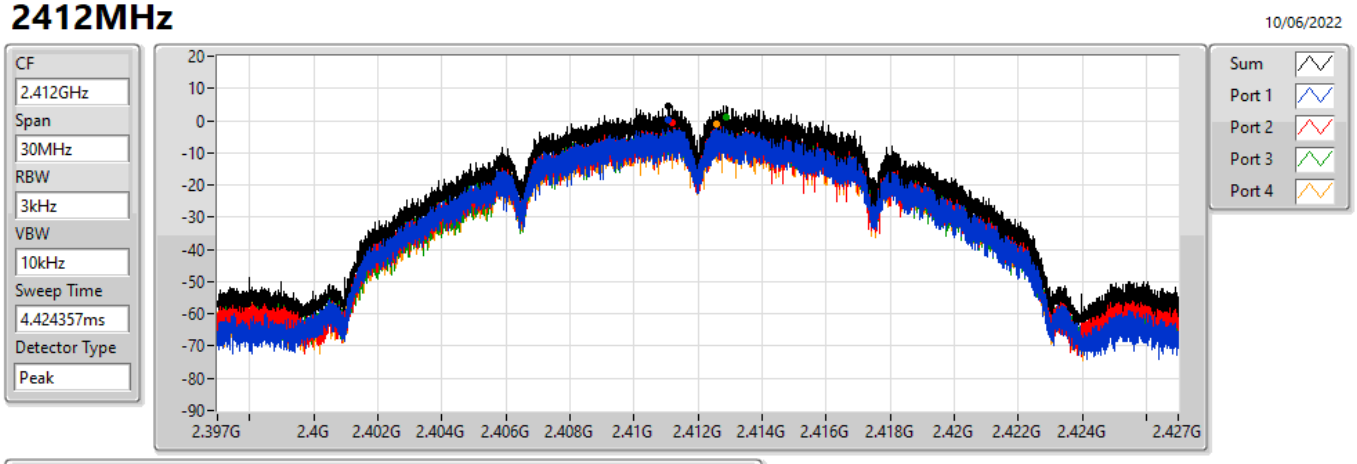
Result

Mode	Result	DG (dBi)	Port 1 (dBm/RBW)	Port 2 (dBm/RBW)	Port 3 (dBm/RBW)	Port 4 (dBm/RBW)	PD (dBm/RBW)	PD Limit (dBm/RBW)
802.11b_Nss1,(1Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.95	0.20	-0.63	0.99	-0.85	4.63	8.00
2437MHz	Pass	3.95	-1.74	-2.01	-0.23	-1.21	3.75	8.00
2462MHz	Pass	3.95	0.12	0.67	-0.03	-1.78	5.28	8.00
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.95	-4.96	-4.68	-4.76	-5.70	-0.52	8.00
2437MHz	Pass	3.95	-4.36	-3.90	-3.72	-4.77	0.02	8.00
2462MHz	Pass	3.95	-5.91	-5.79	-6.56	-6.80	-1.97	8.00
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2412MHz	Pass	3.95	-5.86	-6.69	-5.48	-6.90	-2.50	8.00
2437MHz	Pass	3.95	-3.68	-3.76	-3.79	-4.05	0.29	8.00
2462MHz	Pass	3.95	-4.68	-5.24	-4.32	-6.10	-1.34	8.00
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-
2422MHz	Pass	3.95	-10.00	-9.74	-9.90	-10.95	-6.57	8.00
2437MHz	Pass	3.95	-8.21	-7.74	-8.22	-8.55	-4.75	8.00
2452MHz	Pass	3.95	-9.09	-9.12	-7.96	-9.62	-4.88	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;

802.11b_Nss1,(1Mbps)_4TX PSD

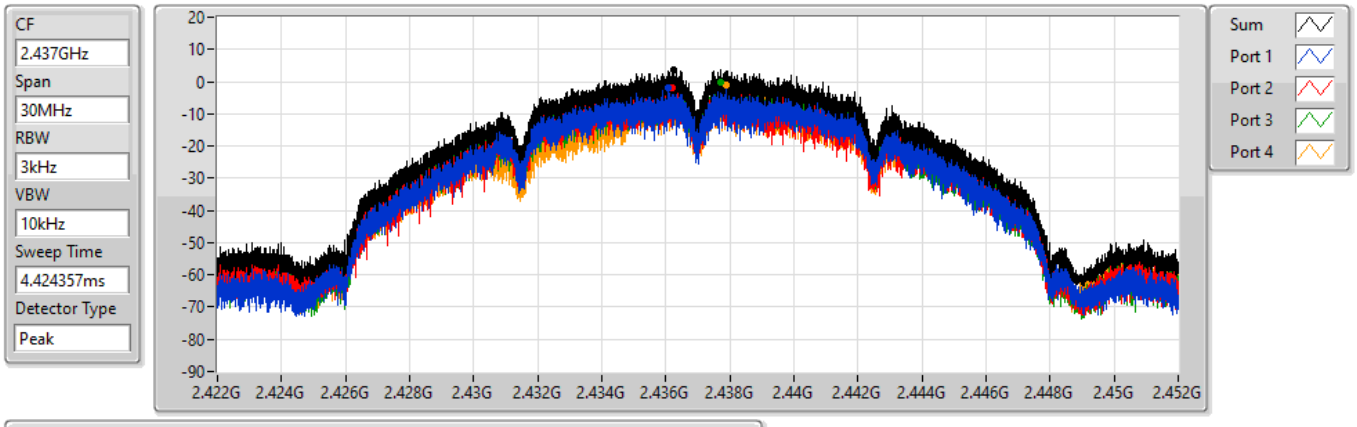
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
4.63	4.63	0.20	-0.63	0.99	-0.85

802.11b_Nss1,(1Mbps)_4TX PSD

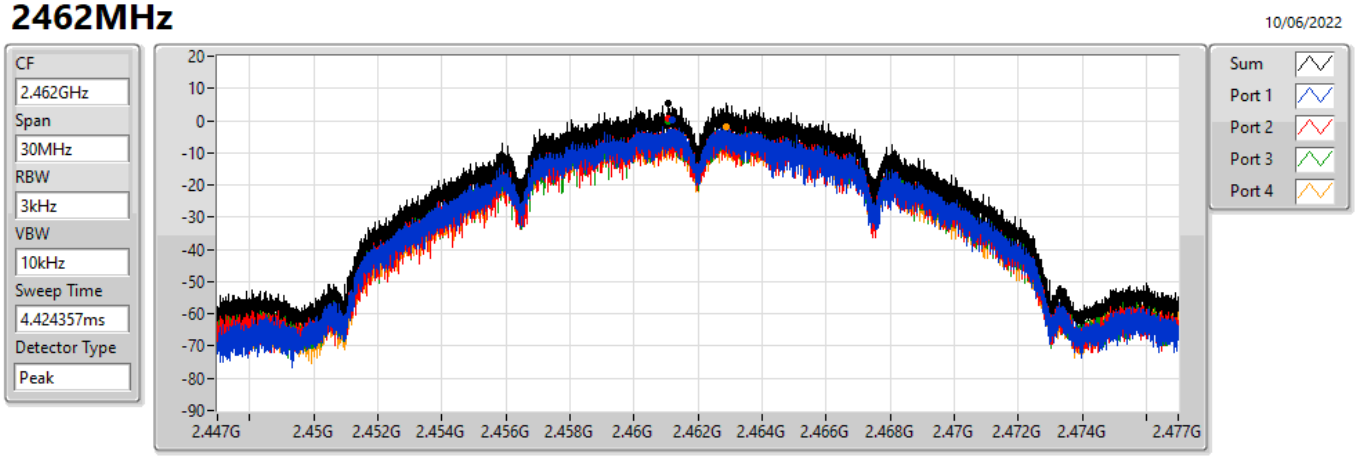
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
3.75	3.75	-1.74	-2.01	-0.23	-1.21

802.11b_Nss1,(1Mbps)_4TX PSD

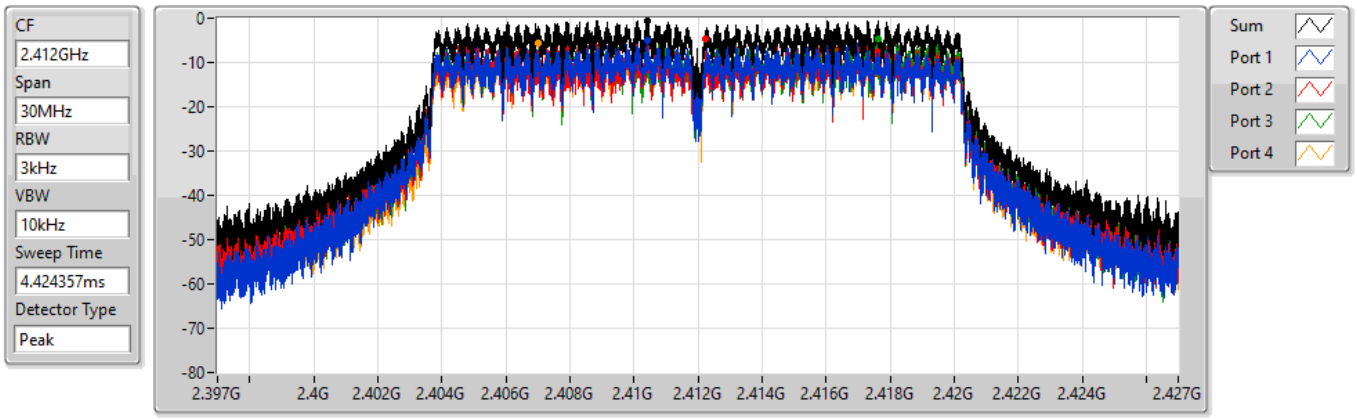
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
5.28	5.28	0.12	0.67	-0.03	-1.78

802.11g_Nss1,(6Mbps)_4TX PSD

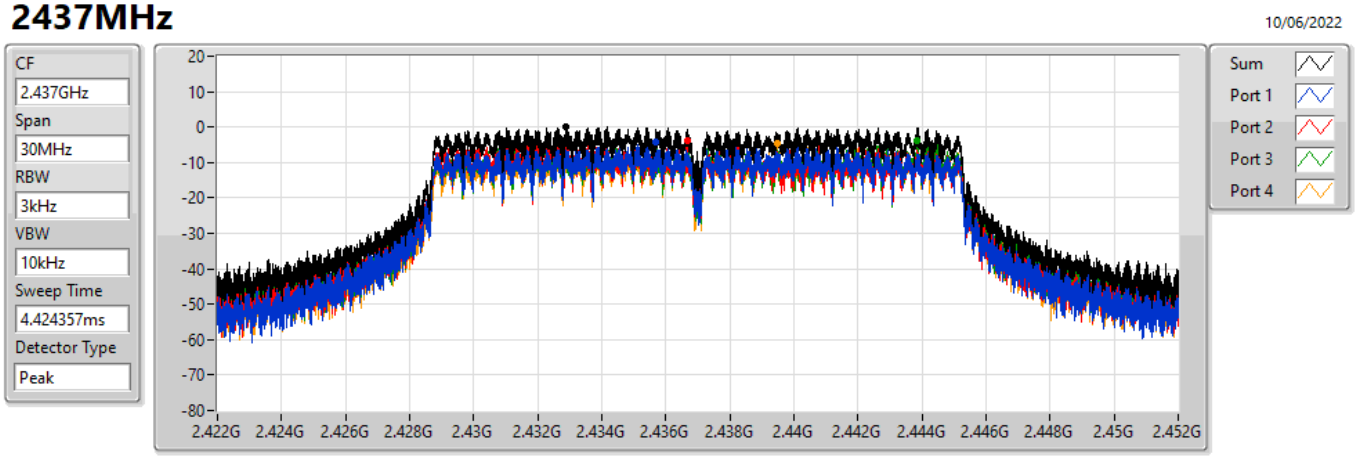
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-0.52	-0.52	-4.96	-4.68	-4.76	-5.70

802.11g_Nss1,(6Mbps)_4TX PSD

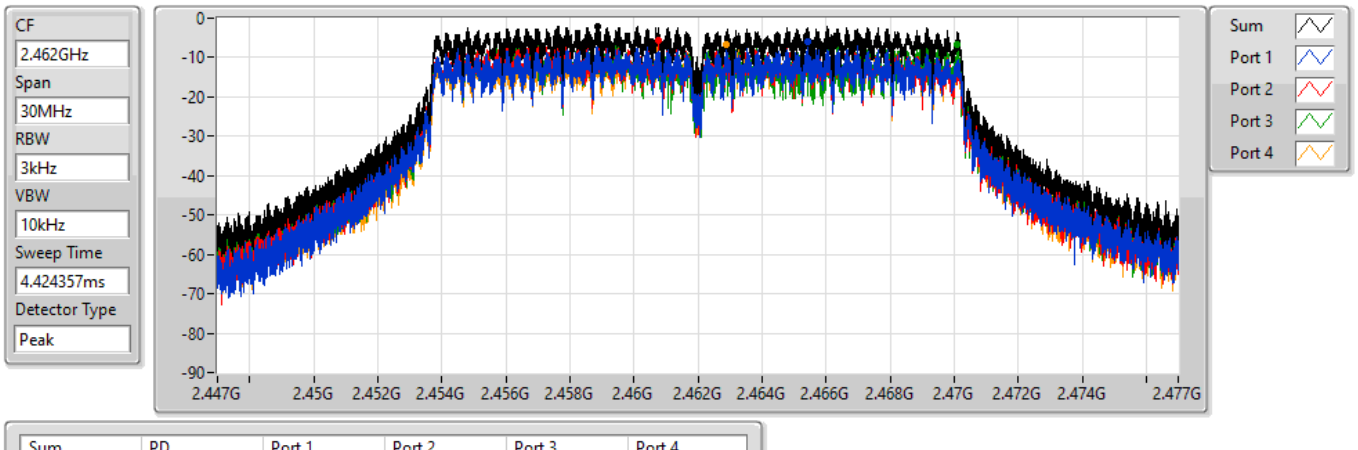
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.02	0.02	-4.36	-3.90	-3.72	-4.77

802.11g_Nss1,(6Mbps)_4TX PSD

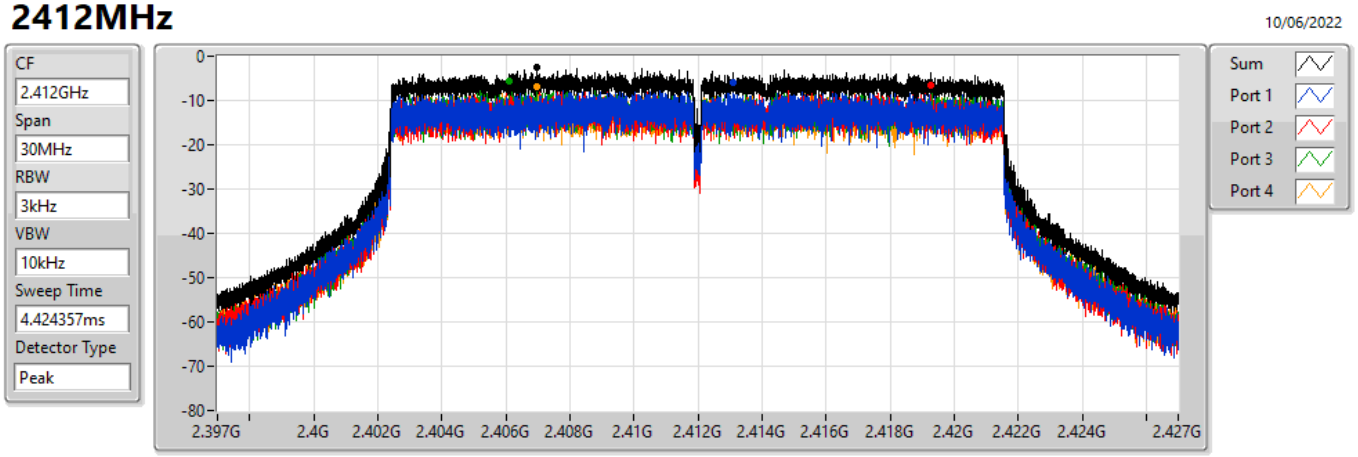
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.97	-1.97	-5.91	-5.79	-6.56	-6.80

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

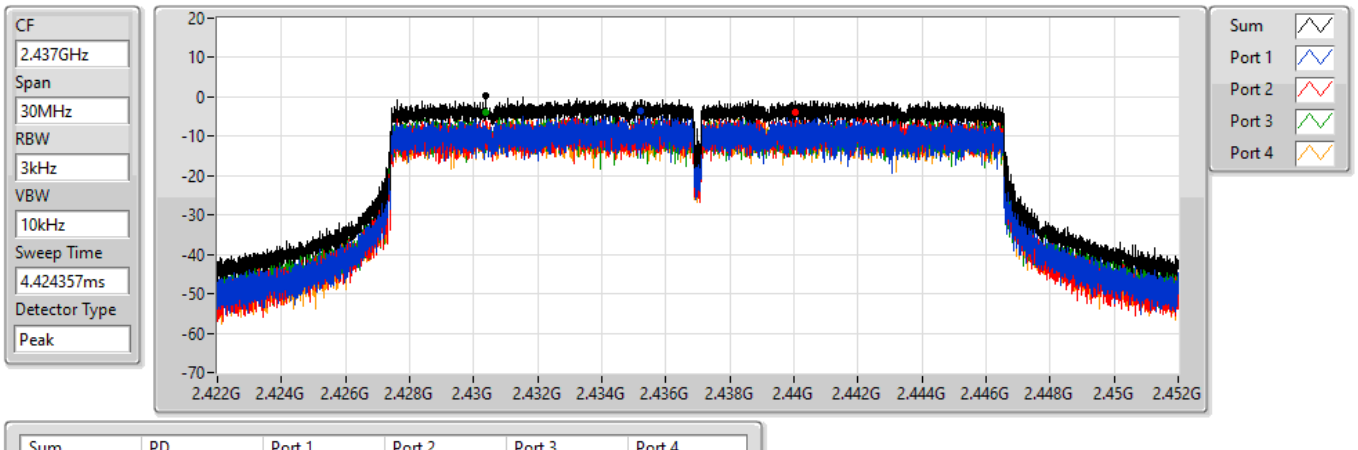
2412MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-2.50	-2.50	-5.86	-6.69	-5.48	-6.90

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

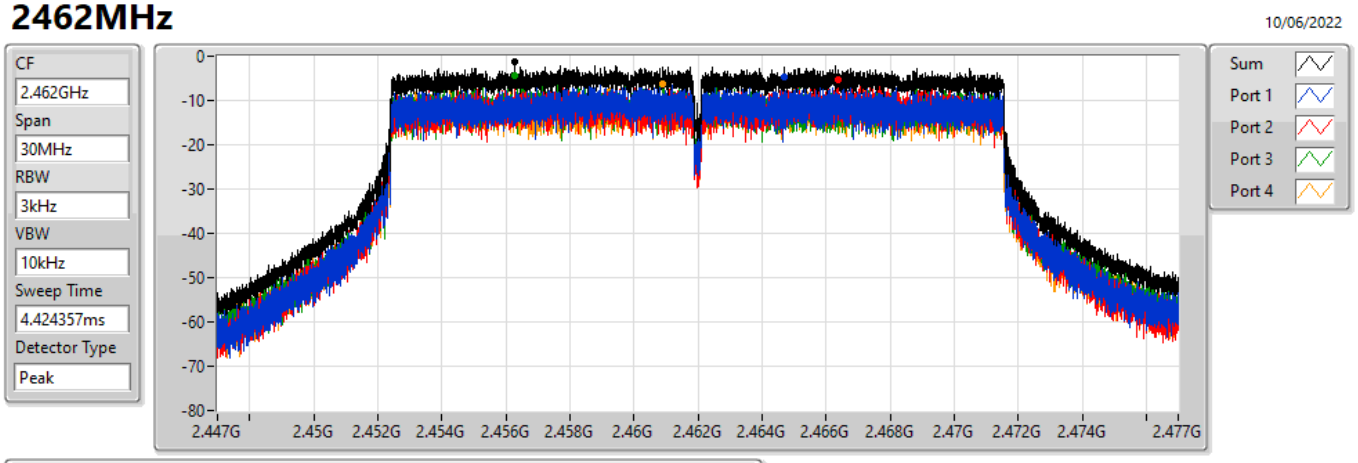
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
0.29	0.29	-3.68	-3.76	-3.79	-4.05

802.11ax HEW20_Nss1,(MCS0)_4TX PSD

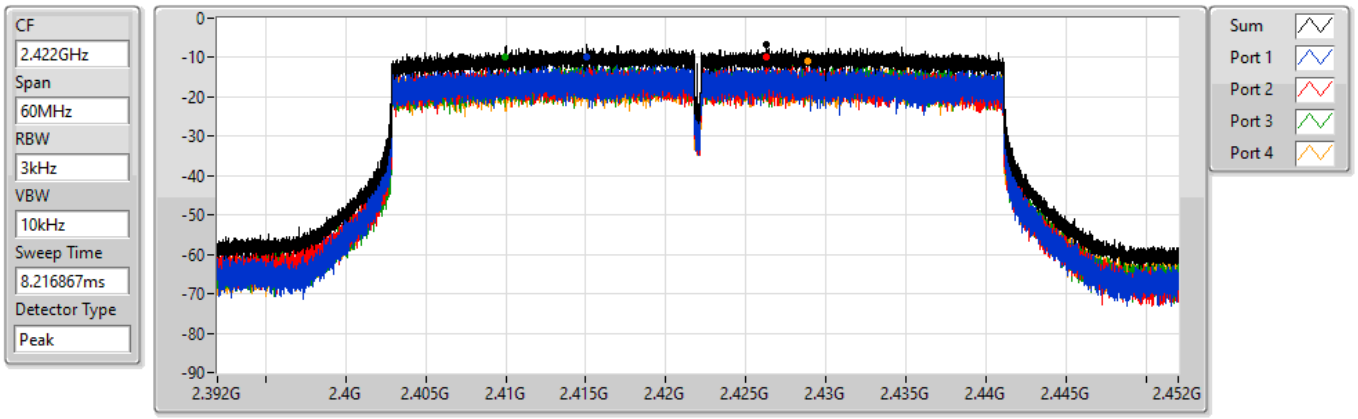
2462MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-1.34	-1.34	-4.68	-5.24	-4.32	-6.10

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

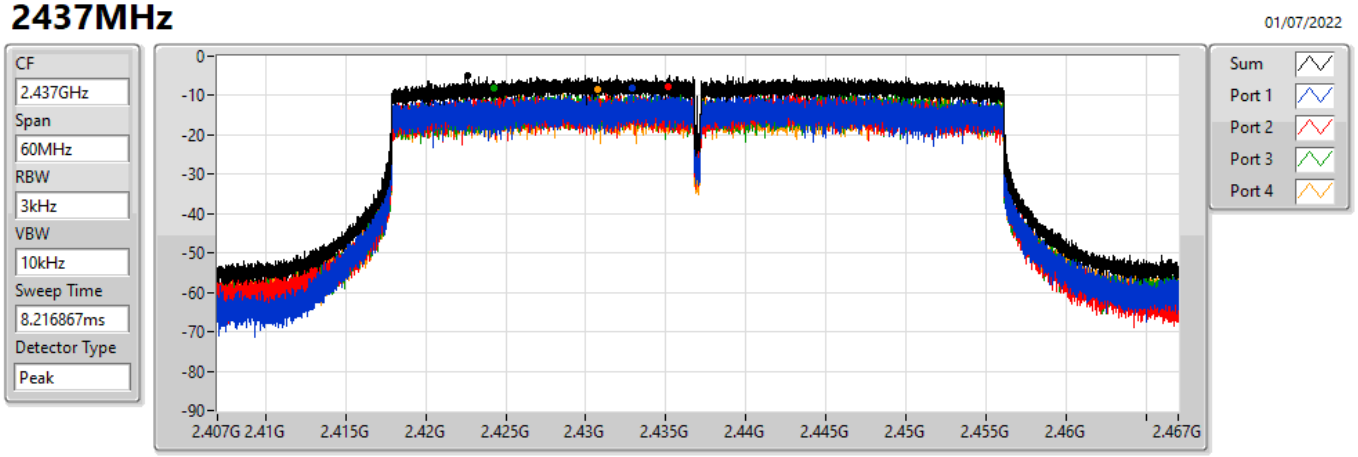
2422MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-6.57	-6.57	-10.00	-9.74	-9.90	-10.95

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

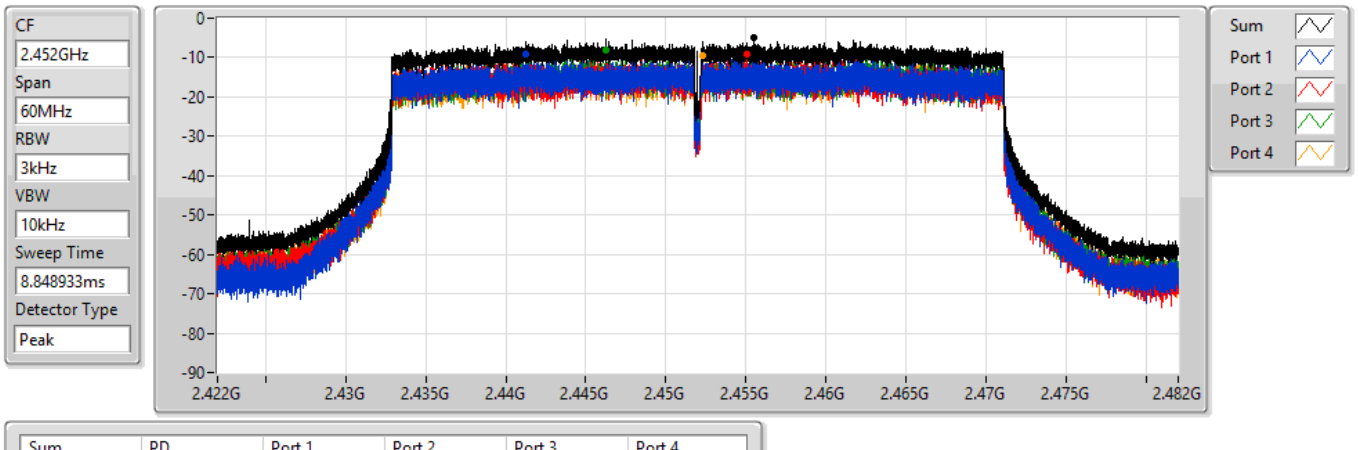
2437MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.75	-4.75	-8.21	-7.74	-8.22	-8.55

802.11ax HEW40_Nss1,(MCS0)_4TX PSD

2452MHz



Sum	PD	Port 1	Port 2	Port 3	Port 4
(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)	(dBm/RBW)
-4.88	-4.88	-9.09	-9.12	-7.96	-9.62

Summary

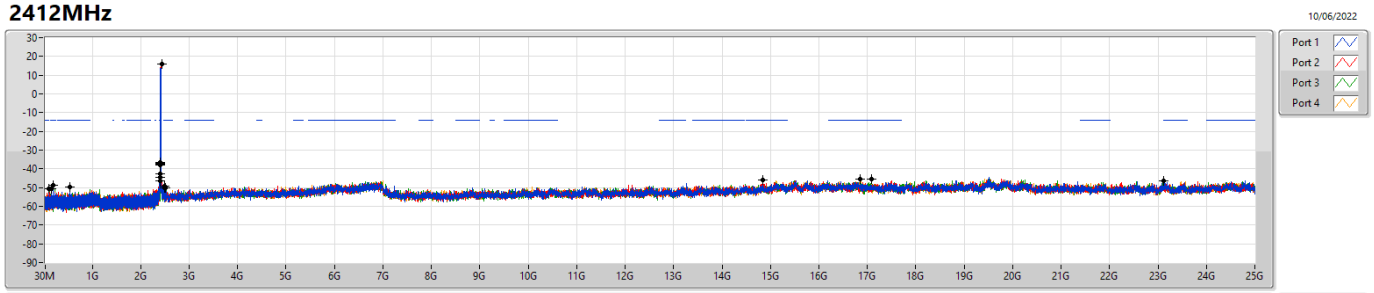
Mode	Result	Ref (Hz)	Ref (dBm)	Limit (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Freq (Hz)	Level (dBm)	Port
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
802.11b_Nss1,(1Mbps)_4TX	Pass	2.43599G	15.80	-14.20	544.06M	-49.63	2.4G	-36.65	2.4G	-44.63	2.51866G	-50.17	14.835G	-46.12	2
802.11g_Nss1,(6Mbps)_4TX	Pass	2.43073G	12.38	-17.62	2.30408G	-51.45	2.3999G	-25.21	2.4G	-26.94	2.48888G	-48.98	24.86795G	-45.95	2
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	2.43198G	12.56	-17.44	392.9M	-51.82	2.39956G	-28.48	2.4G	-26.34	2.49326G	-50.40	24.48023G	-46.00	3
802.11ax HEW40_Nss1,(MCS0)_4TX	Pass	2.43449G	8.86	-21.14	2.30054G	-51.65	2.4G	-32.53	2.4G	-35.73	2.49506G	-48.76	15.19244G	-45.19	1

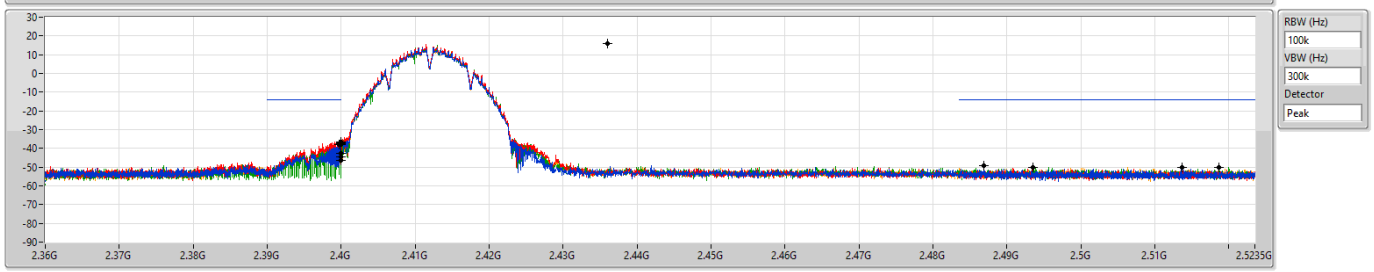
Result

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)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43599G	15.80	-14.20	95.82M	-50.44	2.39994G	-37.16	2.4G	-38.20	2.51364G	-50.26	23.12321G	-46.29	1
2412MHz	Pass	2.43599G	15.80	-14.20	544.06M	-49.63	2.4G	-36.65	2.4G	-44.63	2.51866G	-50.17	14.835G	-46.12	2
2412MHz	Pass	2.43599G	15.80	-14.20	159.9M	-50.83	2.3999G	-37.60	2.4G	-42.78	2.49356G	-50.16	16.84665G	-45.50	3
2412MHz	Pass	2.43599G	15.80	-14.20	191.94M	-48.97	2.39972G	-37.84	2.4G	-46.18	2.4869G	-49.43	17.07984G	-45.44	4
2437MHz	Pass	2.43599G	15.80	-14.20	191.94M	-50.86	2.39524G	-50.05	2.4G	-51.90	2.48496G	-50.01	24.12342G	-46.13	1
2437MHz	Pass	2.43599G	15.80	-14.20	191.94M	-49.57	2.3981G	-49.25	2.4G	-50.81	2.48732G	-50.27	16.79327G	-45.63	2
2437MHz	Pass	2.43599G	15.80	-14.20	191.94M	-50.46	2.39028G	-49.71	2.4G	-52.49	2.5046G	-49.43	6.96261G	-46.10	3
2437MHz	Pass	2.43599G	15.80	-14.20	223.97M	-49.08	2.3986G	-50.62	2.4G	-52.21	2.49474G	-50.56	6.62827G	-46.10	4
2462MHz	Pass	2.43599G	15.80	-14.20	543.77M	-50.38	2.39162G	-49.98	2.4835G	-51.28	2.48824G	-49.04	24.87638G	-46.28	1
2462MHz	Pass	2.43599G	15.80	-14.20	191.94M	-48.20	2.39634G	-49.63	2.4835G	-51.54	2.488G	-48.86	16.79327G	-45.68	2
2462MHz	Pass	2.43599G	15.80	-14.20	543.77M	-50.44	2.39934G	-51.21	2.4835G	-52.30	2.49508G	-48.39	6.71256G	-45.23	3
2462MHz	Pass	2.43599G	15.80	-14.20	191.94M	-49.49	2.39124G	-50.34	2.4835G	-53.12	2.48698G	-49.26	24.4409G	-46.56	4
802.11g_Nss1,(6Mbps)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43073G	12.38	-17.62	223.97M	-51.70	2.39998G	-29.10	2.4G	-30.04	2.49168G	-49.18	16.49545G	-46.40	1
2412MHz	Pass	2.43073G	12.38	-17.62	2.30408G	-51.45	2.3999G	-25.21	2.4G	-26.94	2.48888G	-48.98	24.86795G	-45.95	2
2412MHz	Pass	2.43073G	12.38	-17.62	937.54M	-50.74	2.39982G	-25.55	2.4G	-27.92	2.48764G	-48.03	24.48304G	-45.76	3
2412MHz	Pass	2.43073G	12.38	-17.62	1.90245G	-51.87	2.39998G	-27.05	2.4G	-26.09	2.48996G	-49.22	6.79684G	-45.28	4
2437MHz	Pass	2.43073G	12.38	-17.62	923.26M	-51.45	2.39902G	-48.10	2.4G	-49.82	2.49138G	-49.15	16.75674G	-46.03	1
2437MHz	Pass	2.43073G	12.38	-17.62	2.30641G	-51.65	2.39998G	-47.67	2.4G	-49.82	2.50478G	-49.67	6.56084G	-46.62	2
2437MHz	Pass	2.43073G	12.38	-17.62	543.77M	-50.76	2.39824G	-48.30	2.4G	-50.25	2.49778G	-48.91	24.48023G	-45.91	3
2437MHz	Pass	2.43073G	12.38	-17.62	1.91322G	-52.81	2.39922G	-47.57	2.4G	-50.13	2.49576G	-49.27	16.8017G	-46.71	4
2462MHz	Pass	2.43073G	12.38	-17.62	2.30233G	-51.77	2.39414G	-49.81	2.4835G	-49.32	2.48414G	-46.32	16.86632G	-45.66	1
2462MHz	Pass	2.43073G	12.38	-17.62	2.30262G	-51.34	2.39574G	-50.02	2.4835G	-50.12	2.48454G	-45.89	24.76962G	-46.29	2
2462MHz	Pass	2.43073G	12.38	-17.62	959.38M	-52.59	2.39452G	-51.14	2.4835G	-47.74	2.48388G	-46.05	6.91766G	-46.72	3
2462MHz	Pass	2.43073G	12.38	-17.62	942.78M	-52.81	2.39254G	-51.48	2.4835G	-46.64	2.4835G	-45.92	6.65356G	-46.41	4
802.11ax HEW20_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2412MHz	Pass	2.43198G	12.56	-17.44	2.14011G	-53.13	2.39992G	-31.02	2.4G	-30.35	2.49524G	-50.34	23.18221G	-45.95	1
2412MHz	Pass	2.43198G	12.56	-17.44	864.43M	-52.86	2.39992G	-30.03	2.4G	-30.39	2.48696G	-51.04	23.18221G	-46.07	2
2412MHz	Pass	2.43198G	12.56	-17.44	392.9M	-51.82	2.39956G	-28.48	2.4G	-26.34	2.49326G	-50.40	24.48023G	-46.00	3
2412MHz	Pass	2.43198G	12.56	-17.44	1.97293G	-52.23	2.39994G	-29.02	2.4G	-29.93	2.49052G	-49.65	24.4409G	-46.08	4
2437MHz	Pass	2.43198G	12.56	-17.44	2.30059G	-51.27	2.39944G	-46.89	2.4G	-49.79	2.52198G	-49.60	16.79889G	-46.32	1
2437MHz	Pass	2.43198G	12.56	-17.44	2.30466G	-52.13	2.39692G	-47.53	2.4G	-48.75	2.48418G	-49.43	16.41117G	-46.36	2
2437MHz	Pass	2.43198G	12.56	-17.44	191.94M	-51.57	2.39944G	-46.49	2.4G	-48.89	2.48574G	-48.52	16.21169G	-46.08	3
2437MHz	Pass	2.43198G	12.56	-17.44	2.30932G	-52.20	2.3998G	-48.32	2.4G	-49.70	2.48388G	-49.18	6.90361G	-46.88	4
2462MHz	Pass	2.43198G	12.56	-17.44	1.78536G	-52.07	2.39684G	-49.94	2.4835G	-43.13	2.48494G	-42.42	16.82979G	-46.49	1
2462MHz	Pass	2.43198G	12.56	-17.44	1.93769G	-52.42	2.3902G	-49.82	2.4835G	-45.28	2.48358G	-44.82	6.73222G	-44.90	2
2462MHz	Pass	2.43198G	12.56	-17.44	223.97M	-52.51	2.39958G	-51.49	2.4835G	-44.83	2.48438G	-40.17	16.43364G	-46.40	3
2462MHz	Pass	2.43198G	12.56	-17.44	236.21M	-51.88	2.4G	-50.15	2.4835G	-44.98	2.48352G	-42.71	6.69289G	-46.79	4
802.11ax HEW40_Nss1,(MCS0)_4TX	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2422MHz	Pass	2.43449G	8.86	-21.14	2.30054G	-51.65	2.4G	-32.53	2.4G	-35.73	2.49506G	-48.76	15.19244G	-45.19	1
2422MHz	Pass	2.43449G	8.86	-21.14	2.30025G	-51.13	2.39972G	-34.03	2.4G	-33.71	2.55434G	-50.10	21.81963G	-44.84	2
2422MHz	Pass	2.43449G	8.86	-21.14	755.93M	-52.74	2.39984G	-33.63	2.4G	-33.68	2.49082G	-48.72	16.38999G	-45.36	3
2422MHz	Pass	2.43449G	8.86	-21.14	925.39M	-50.84	2.39972G	-33.34	2.4G	-34.68	2.54134G	-40.74	24.13059G	-45.47	4
2437MHz	Pass	2.43449G	8.86	-21.14	2.11333G	-51.84	2.3992G	-43.31	2.4G	-45.06	2.4845G	-45.14	6.99471G	-44.96	1
2437MHz	Pass	2.43449G	8.86	-21.14	2.30741G	-51.44	2.39576G	-41.08	2.4G	-42.11	2.48366G	-45.28	15.19244G	-44.86	2
2437MHz	Pass	2.43449G	8.86	-21.14	2.30311G	-51.98	2.39992G	-40.24	2.4G	-44.09	2.4885G	-43.67	24.79246G	-46.28	3
2437MHz	Pass	2.43449G	8.86	-21.14	913.37M	-52.06	2.39988G	-39.89	2.4G	-40.56	2.55678G	-41.71	15.18403G	-44.69	4
2452MHz	Pass	2.43449G	8.86	-21.14	712.99M	-51.50	2.39956G	-48.71	2.4835G	-48.46	2.48946G	-42.60	24.10815G	-45.83	1
2452MHz	Pass	2.43449G	8.86	-21.14	2.30884G	-49.73	2.39868G	-49.43	2.4G	-48.71	2.4875G	-45.72	15.18403G	-45.82	2
2452MHz	Pass	2.43449G	8.86	-21.14	928.25M	-51.66	2.39224G	-49.37	2.4835G	-44.38	2.48458G	-42.08	24.52042G	-44.91	3
2452MHz	Pass	2.43449G	8.86	-21.14	2.3097G	-51.72	2.39844G	-49.88	2.4835G	-45.32	2.48442G	-42.84	15.18964G	-44.92	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

2412MHz

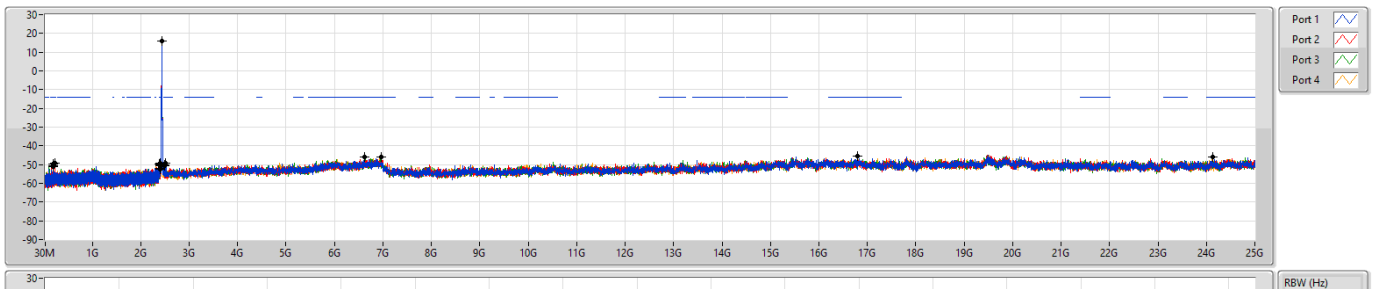


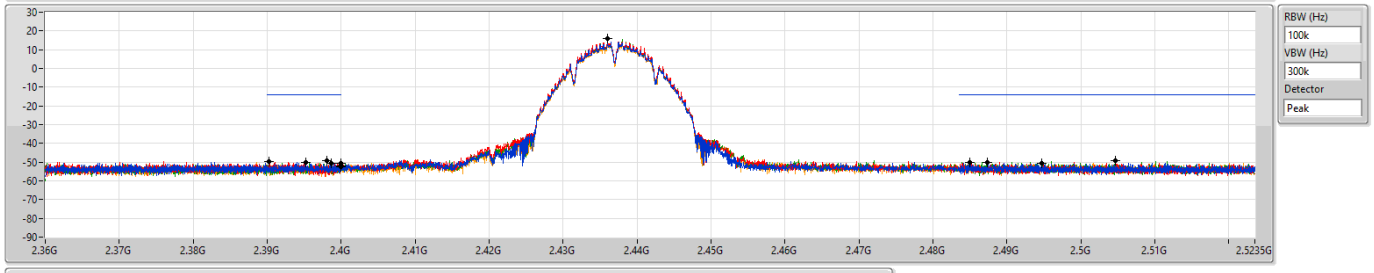


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	15.80	-14.20	95.82M	-50.44	2.39994G	-37.16	2.4G	-38.20	2.51364G	-50.26	23.12321G	-46.29	1
2.43599G	15.80	-14.20	544.06M	-49.63	2.4G	-36.65	2.4G	-44.63	2.51866G	-50.17	14.835G	-46.12	2
2.43599G	15.80	-14.20	159.9M	-50.83	2.3999G	-37.60	2.4G	-42.78	2.49356G	-50.16	16.84665G	-45.50	3
2.43599G	15.80	-14.20	191.94M	-48.97	2.39972G	-37.84	2.4G	-46.18	2.4869G	-49.43	17.07984G	-45.44	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

2437MHz

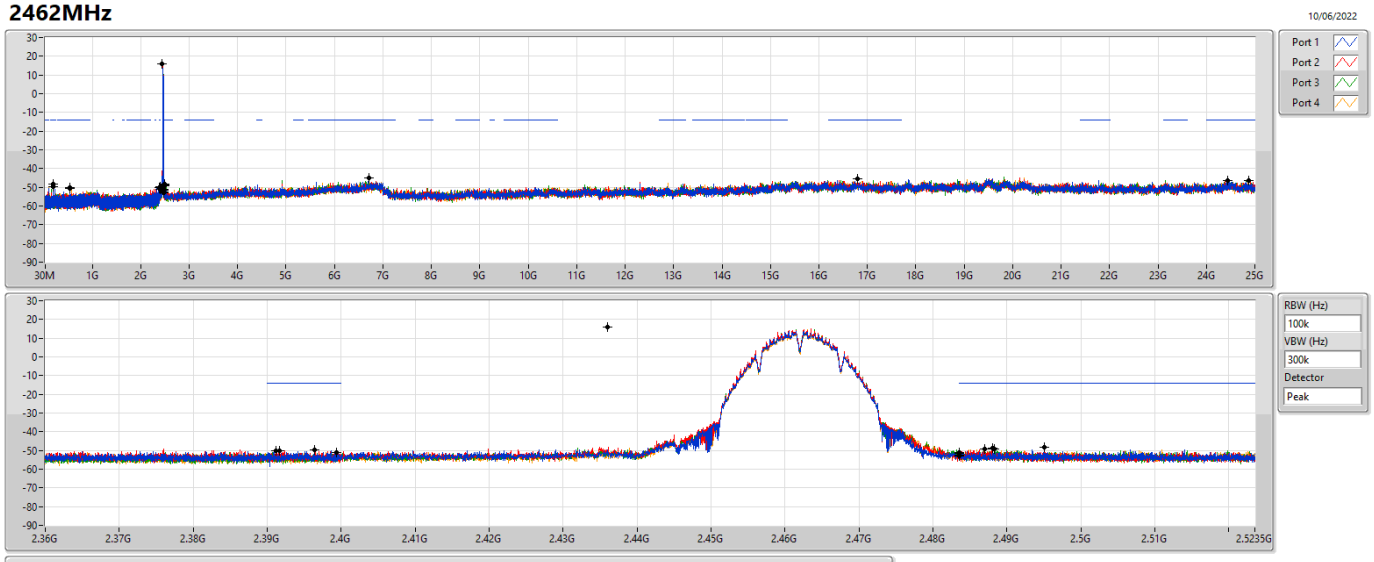




Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43599G	15.80	-14.20	191.94M	-50.86	2.39524G	-50.05	2.4G	-51.90	2.48496G	-50.01	24.12342G	-46.13	1
2.43599G	15.80	-14.20	191.94M	-49.57	2.3981G	-49.25	2.4G	-50.81	2.48732G	-50.27	16.79327G	-45.63	2
2.43599G	15.80	-14.20	191.94M	-50.46	2.39028G	-49.71	2.4G	-52.49	2.5046G	-49.43	6.96261G	-46.10	3
2.43599G	15.80	-14.20	223.97M	-49.08	2.3986G	-50.62	2.4G	-52.21	2.49474G	-50.56	6.62827G	-46.10	4

802.11b_Nss1,(1Mbps)_4TX **CSENdB**

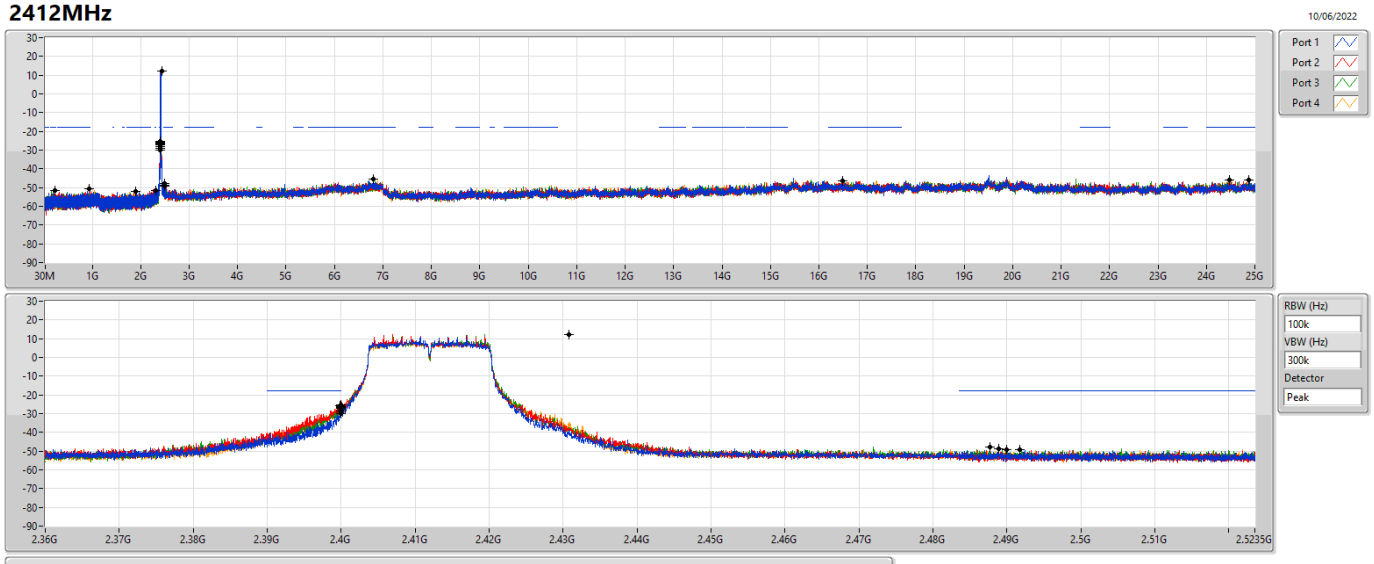
2462MHz



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
2.43599G	15.80	-14.20	543.77M	-50.38	2.39162G	-49.98	2.4835G	-51.28	2.48824G	-49.04	24.87638G	-46.28	1
2.43599G	15.80	-14.20	191.94M	-48.20	2.39634G	-49.63	2.4835G	-51.54	2.488G	-48.86	16.79327G	-45.68	2
2.43599G	15.80	-14.20	543.77M	-50.44	2.39934G	-51.21	2.4835G	-52.30	2.49508G	-48.39	6.71256G	-45.23	3
2.43599G	15.80	-14.20	191.94M	-49.49	2.39124G	-50.34	2.4835G	-53.12	2.48698G	-49.26	24.4409G	-46.56	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

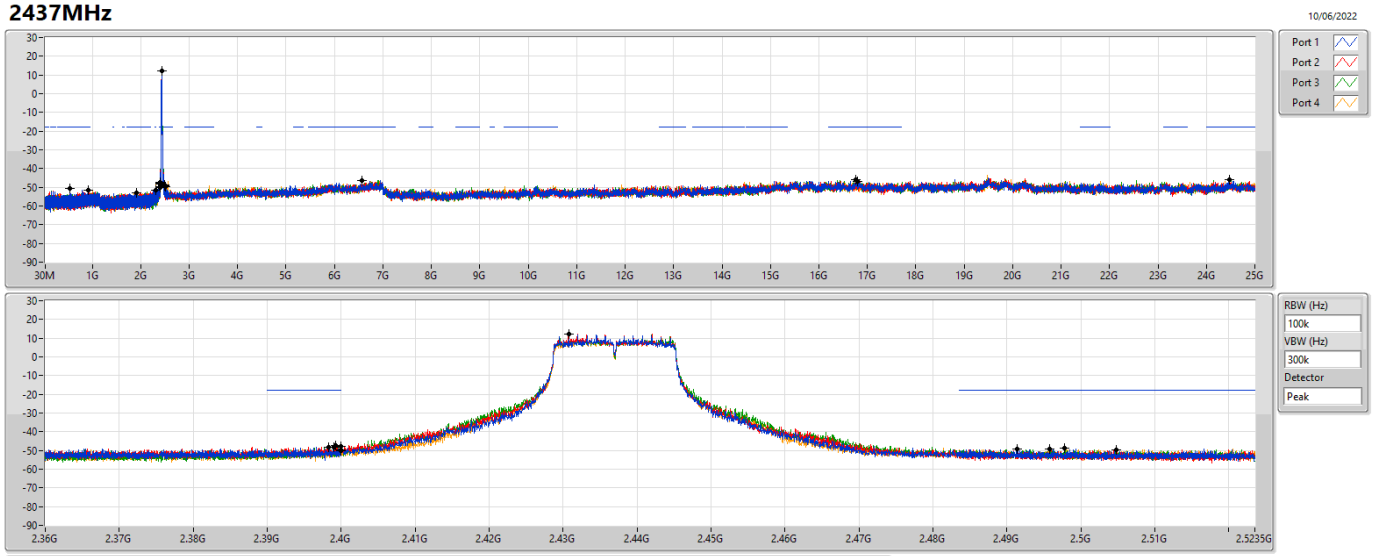
2412MHz



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
2.43073G	12.38	-17.62	223.97M	-51.70	2.39998G	-29.10	2.4G	-30.04	2.49168G	-49.18	16.49545G	-46.40	1
2.43073G	12.38	-17.62	2.30408G	-51.45	2.3999G	-25.21	2.4G	-26.94	2.48888G	-48.98	24.86795G	-45.95	2
2.43073G	12.38	-17.62	937.54M	-50.74	2.39982G	-25.55	2.4G	-27.92	2.48764G	-48.03	24.48304G	-45.76	3
2.43073G	12.38	-17.62	1.90245G	-51.87	2.39998G	-27.05	2.4G	-26.09	2.48996G	-49.22	6.79684G	-45.28	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

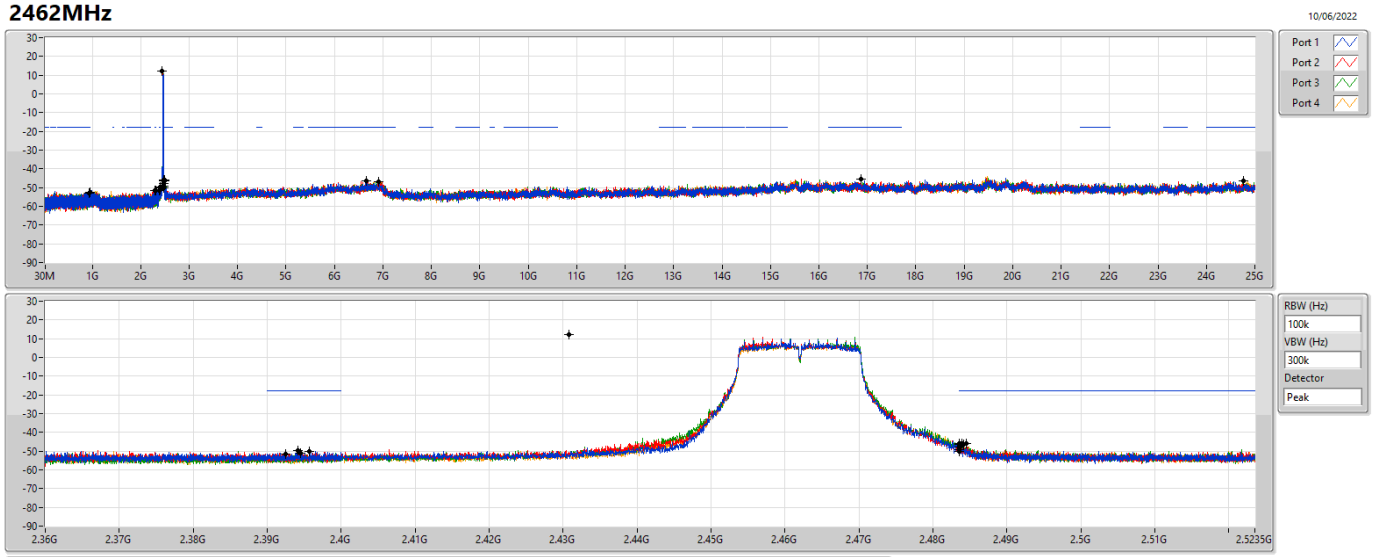
2437MHz



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
2.43073G	12.38	-17.62	923.26M	-51.45	2.39902G	-48.10	2.4G	-49.82	2.49138G	-49.15	16.75674G	-46.03	1
2.43073G	12.38	-17.62	2.30641G	-51.65	2.39998G	-47.67	2.4G	-49.82	2.50478G	-49.67	6.56084G	-46.62	2
2.43073G	12.38	-17.62	543.77M	-50.76	2.39824G	-48.30	2.4G	-50.25	2.49778G	-48.91	24.48023G	-45.91	3
2.43073G	12.38	-17.62	1.91322G	-52.81	2.39922G	-47.57	2.4G	-50.13	2.49576G	-49.27	16.8017G	-46.71	4

802.11g_Nss1,(6Mbps)_4TX **CSENdB**

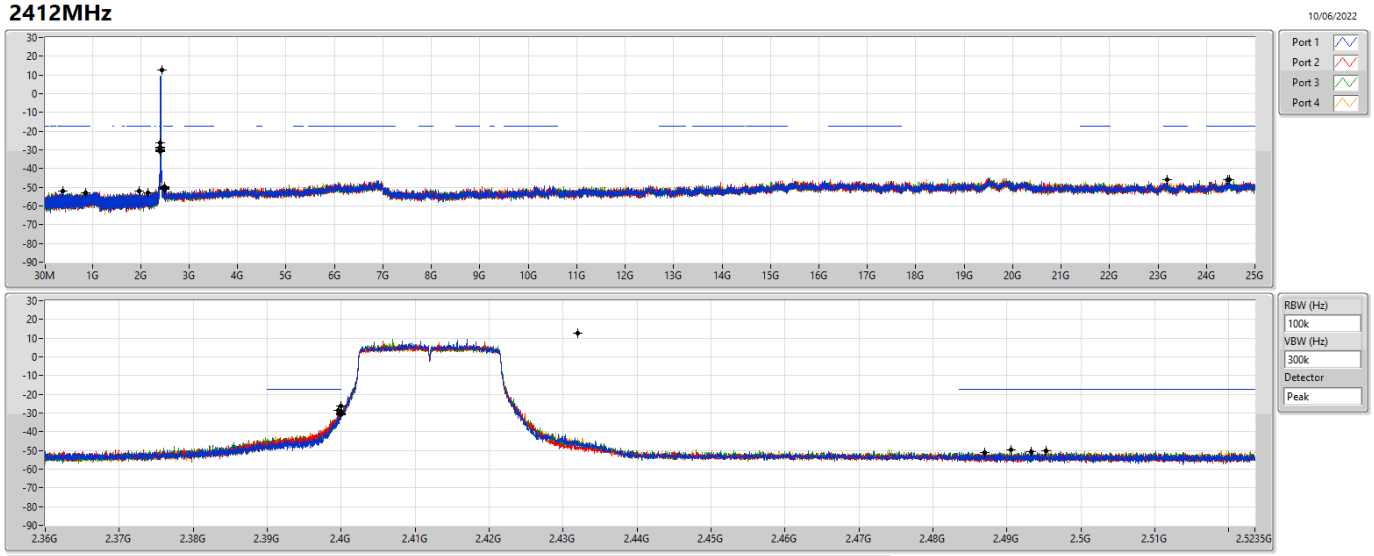
2462MHz



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
2.43073G	12.38	-17.62	2.30233G	-51.77	2.39414G	-49.81	2.4835G	-49.32	2.48414G	-46.32	16.86632G	-45.66	1
2.43073G	12.38	-17.62	2.30262G	-51.34	2.39574G	-50.02	2.4835G	-50.12	2.48454G	-45.89	24.76962G	-46.29	2
2.43073G	12.38	-17.62	959.38M	-52.59	2.39452G	-51.14	2.4835G	-47.74	2.48388G	-46.05	6.91766G	-46.72	3
2.43073G	12.38	-17.62	942.78M	-52.81	2.39254G	-51.48	2.4835G	-46.64	2.4835G	-45.92	6.65356G	-46.41	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

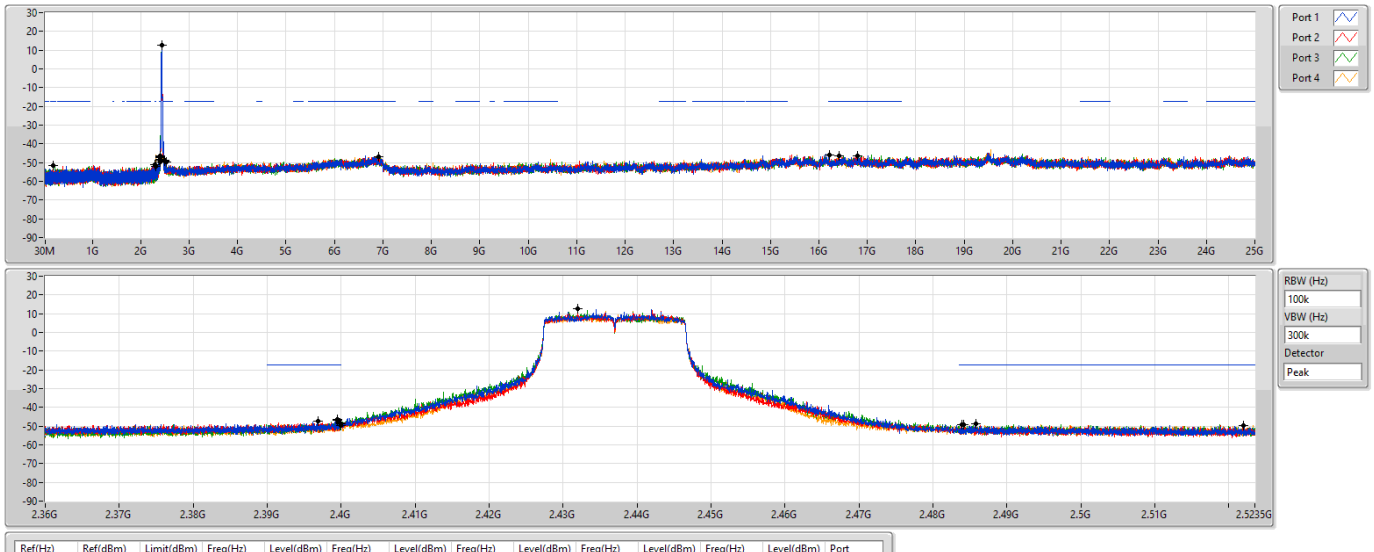
2412MHz



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
2.43198G	12.56	-17.44	2.14011G	-53.13	2.39992G	-31.02	2.4G	-30.35	2.49524G	-50.34	23.18221G	-45.95	1
2.43198G	12.56	-17.44	864.43M	-52.86	2.39992G	-30.03	2.4G	-30.39	2.48696G	-51.04	23.18221G	-46.07	2
2.43198G	12.56	-17.44	392.9M	-51.82	2.39956G	-28.48	2.4G	-26.34	2.49326G	-50.40	24.48023G	-46.00	3
2.43198G	12.56	-17.44	1.97293G	-52.23	2.39994G	-29.02	2.4G	-29.93	2.49052G	-49.65	24.4409G	-46.08	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

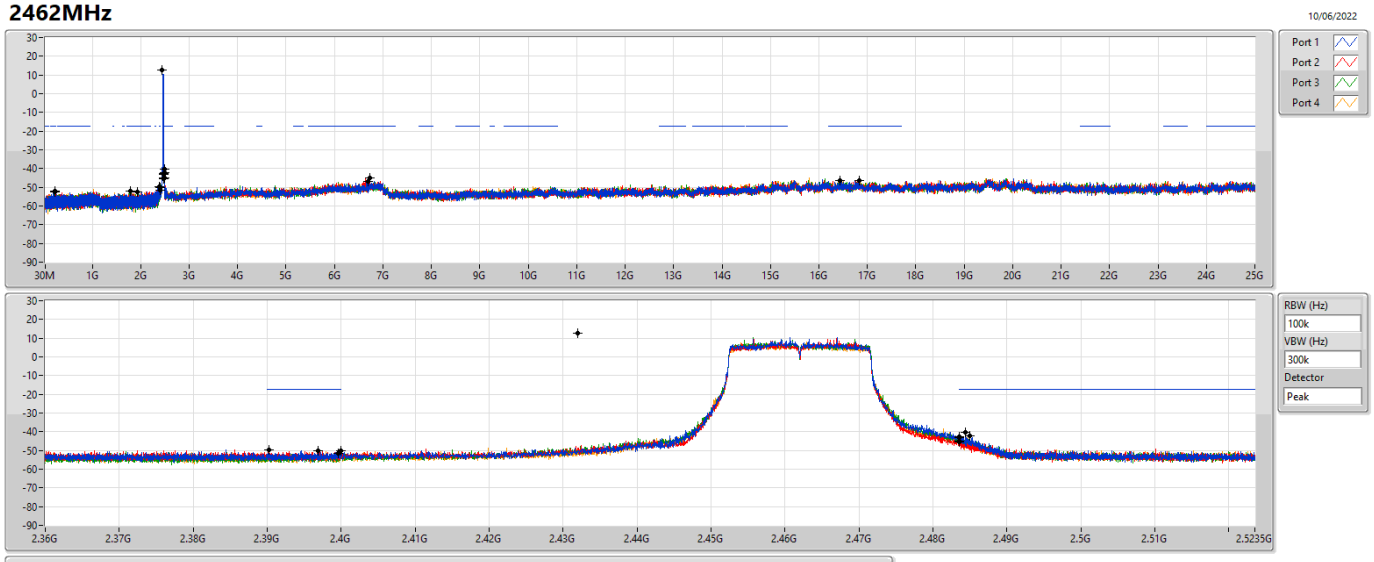
2437MHz



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
2.43198G	12.56	-17.44	2.30059G	-51.27	2.39944G	-46.89	2.4G	-49.79	2.52198G	-49.60	16.79889G	-46.32	1
2.43198G	12.56	-17.44	2.30466G	-52.13	2.39692G	-47.53	2.4G	-48.75	2.48418G	-49.43	16.41117G	-46.36	2
2.43198G	12.56	-17.44	191.94M	-51.57	2.39944G	-46.49	2.4G	-48.89	2.48574G	-48.52	16.21169G	-46.08	3
2.43198G	12.56	-17.44	2.30932G	-52.20	2.3998G	-48.32	2.4G	-49.70	2.48388G	-49.18	6.90361G	-46.88	4

802.11ax HEW20_Nss1,(MCS0)_4TX **CSENdB**

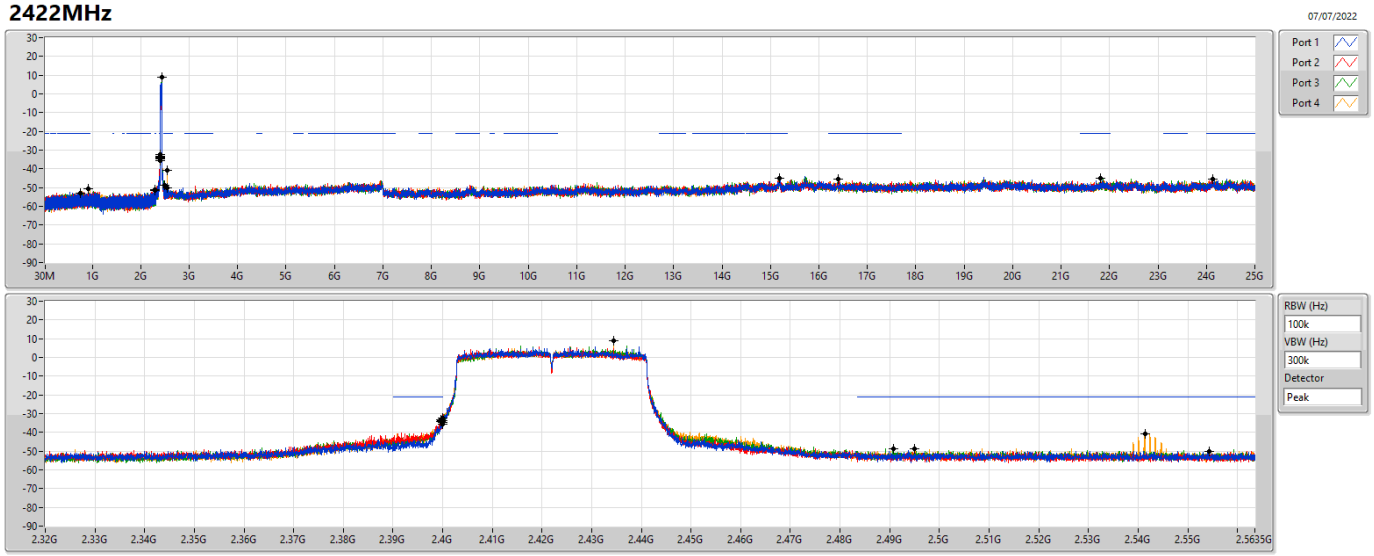
2462MHz



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
2.43198G	12.56	-17.44	1.78536G	-52.07	2.39684G	-49.94	2.4835G	-43.13	2.48494G	-42.42	16.82979G	-46.49	1
2.43198G	12.56	-17.44	1.93769G	-52.42	2.3902G	-49.82	2.4835G	-45.28	2.48358G	-44.82	6.73222G	-44.90	2
2.43198G	12.56	-17.44	223.97M	-52.51	2.39958G	-51.49	2.4835G	-44.83	2.48438G	-40.17	16.43364G	-46.40	3
2.43198G	12.56	-17.44	236.21M	-51.88	2.4G	-50.15	2.4835G	-44.98	2.48352G	-42.71	6.69289G	-46.79	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

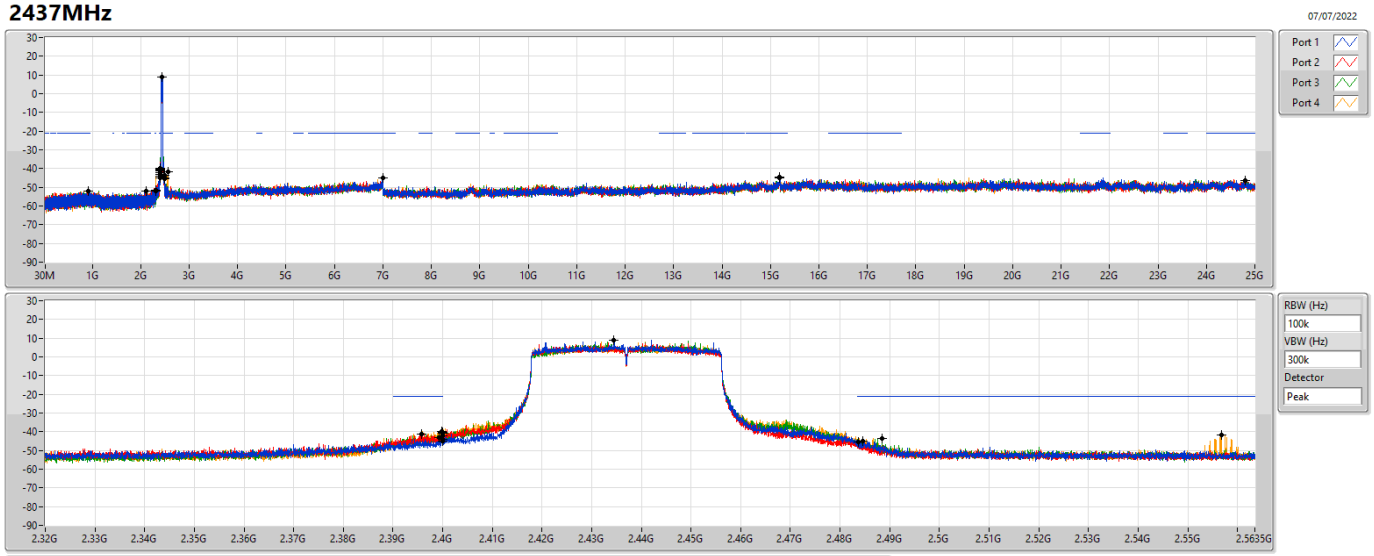
2422MHz



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
2.43449G	8.86	-21.14	2.30054G	-51.65	2.4G	-32.53	2.4G	-35.73	2.49506G	-48.76	15.19244G	-45.19	1
2.43449G	8.86	-21.14	2.30025G	-51.13	2.39972G	-34.03	2.4G	-33.71	2.55434G	-50.10	21.81963G	-44.84	2
2.43449G	8.86	-21.14	755.93M	-52.74	2.39984G	-33.63	2.4G	-33.68	2.49082G	-48.72	16.38999G	-45.36	3
2.43449G	8.86	-21.14	925.39M	-50.84	2.39972G	-33.34	2.4G	-34.68	2.54134G	-40.74	24.13059G	-45.47	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

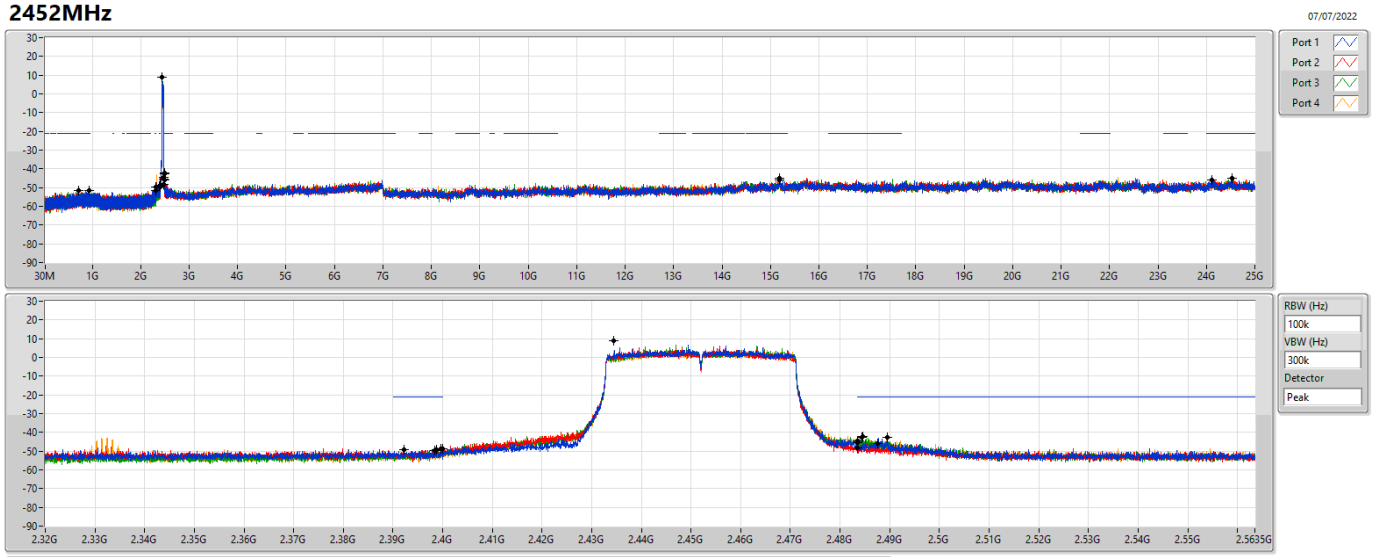
2437MHz



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
2.43449G	8.86	-21.14	2.11333G	-51.84	2.3992G	-43.31	2.4G	-45.06	2.4845G	-45.14	6.99471G	-44.96	1
2.43449G	8.86	-21.14	2.30741G	-51.44	2.39576G	-41.08	2.4G	-42.11	2.48366G	-45.28	15.19244G	-44.86	2
2.43449G	8.86	-21.14	2.30311G	-51.98	2.39992G	-40.24	2.4G	-44.09	2.4885G	-43.67	24.79246G	-46.28	3
2.43449G	8.86	-21.14	913.37M	-52.06	2.39988G	-39.89	2.4G	-40.56	2.55678G	-41.71	15.18403G	-44.69	4

802.11ax HEW40_Nss1,(MCS0)_4TX **CSENdB**

2452MHz

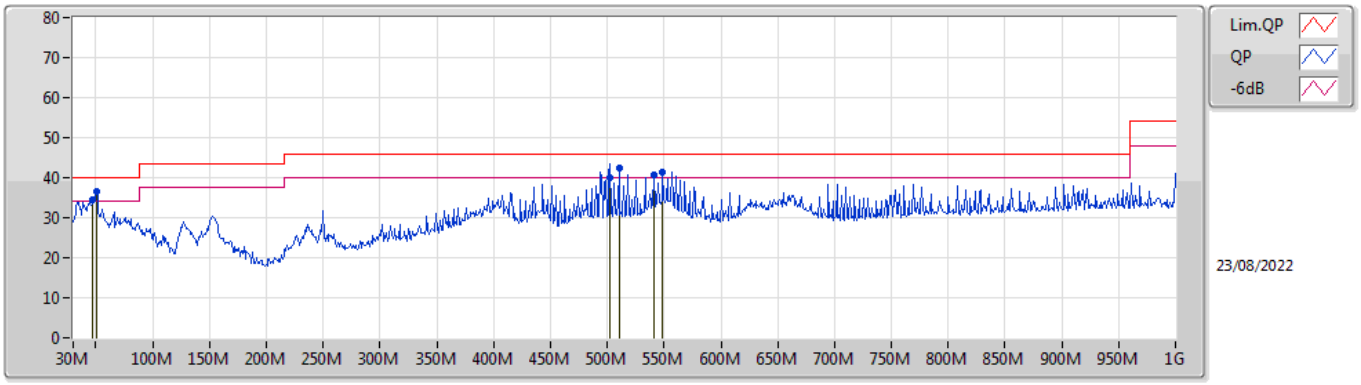


Ref(Hz)	Ref(dBm)	Limit(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Freq(Hz)	Level(dBm)	Port
2.43449G	8.86	-21.14	712.99M	-51.50	2.39956G	-48.71	2.4835G	-48.46	2.48946G	-42.60	24.10815G	-45.83	1
2.43449G	8.86	-21.14	2.30884G	-49.73	2.39868G	-49.43	2.4G	-48.71	2.4875G	-45.72	15.18403G	-45.82	2
2.43449G	8.86	-21.14	928.25M	-51.66	2.39224G	-49.37	2.4835G	-44.38	2.48458G	-42.08	24.52042G	-44.91	3
2.43449G	8.86	-21.14	2.3097G	-51.72	2.39844G	-49.88	2.4835G	-45.32	2.48442G	-42.84	15.18964G	-44.92	4

Summary

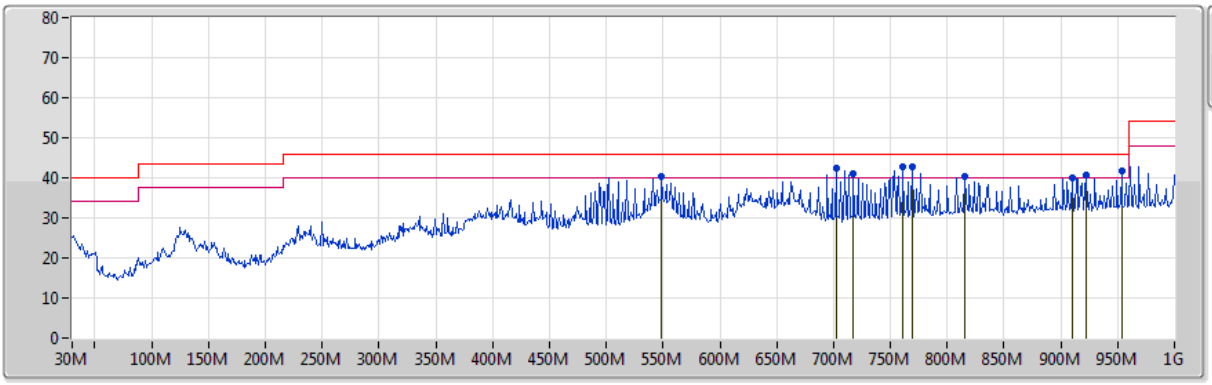
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 2	Pass	PK	761.38M	42.86	46.00	-3.14	Horizontal

Mode 2



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	47.46M	34.40	40.00	-5.60	-15.88	3	Vertical	335	1.00	-	50.28	14.91	1.05	31.84
PK	50.37M	36.50	40.00	-3.50	-16.84	3	Vertical	53	1.00	"Worst"	53.34	13.92	1.10	31.86
QP	502.39M	39.97	46.00	-6.03	-5.58	3	Vertical	93	1.25	-	45.55	23.21	3.61	32.40
PK	510.15M	42.47	46.00	-3.53	-5.55	3	Vertical	86	1.25	-	48.02	23.21	3.64	32.40
PK	541.19M	40.65	46.00	-5.35	-4.57	3	Vertical	309	1.25	-	45.22	24.05	3.76	32.38
PK	548.95M	41.46	46.00	-4.54	-4.14	3	Vertical	292	1.00	-	45.60	24.44	3.80	32.38

Mode 2



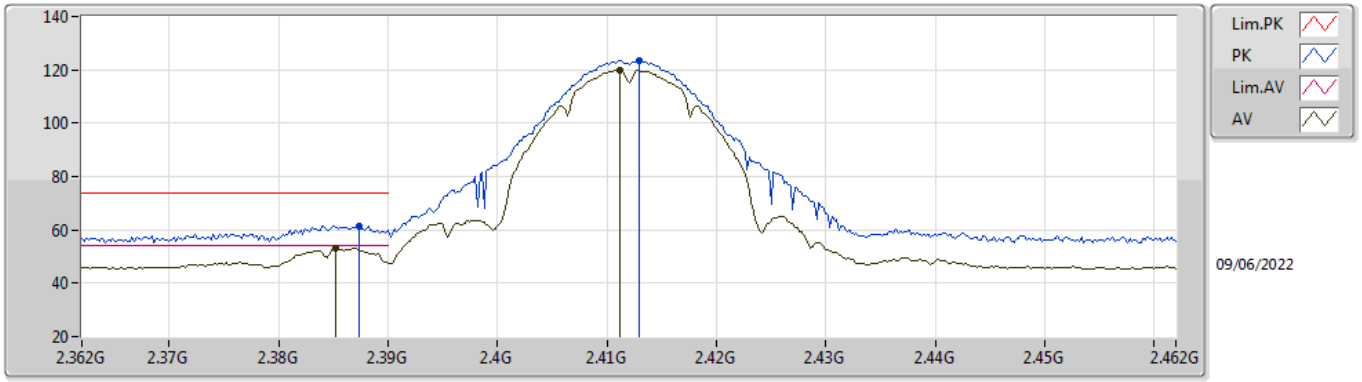
Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	548.95M	40.30	46.00	-5.70	-4.14	3	Horizontal	104	2.00	-	44.44	24.44	3.80	32.38
PK	702.21M	42.43	46.00	-3.57	-3.54	3	Horizontal	221	1.25	-	45.97	24.51	4.51	32.56
PK	717.73M	41.09	46.00	-4.91	-3.33	3	Horizontal	229	1.25	-	44.42	24.68	4.57	32.58
PK	761.38M	42.86	46.00	-3.14	-2.51	3	Horizontal	117	1.25	"Worst"	45.37	25.33	4.75	32.59
PK	769.14M	42.68	46.00	-3.32	-2.42	3	Horizontal	117	1.25	-	45.10	25.37	4.78	32.57
PK	815.7M	40.28	46.00	-5.72	-2.03	3	Horizontal	137	1.25	-	42.31	25.51	4.96	32.50
PK	909.79M	40.10	46.00	-5.90	-0.92	3	Horizontal	215	1.00	-	41.02	26.21	5.36	32.49
PK	922.4M	40.60	46.00	-5.40	-0.90	3	Horizontal	221	1.00	-	41.50	26.16	5.43	32.49
PK	953.44M	41.62	46.00	-4.38	-0.32	3	Horizontal	221	1.00	-	41.94	26.55	5.60	32.47

Summary

Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Dist (m)	Condition	Azimuth (°)	Height (m)	Comments
2.4-2.4835GHz	-	-	-	-	-	-	-	-	-	-	-
802.11ax HEW20_Nss1,(MCS0)_4TX	Pass	AV	2.485G	53.93	54.00	-0.07	3	Horizontal	304	1.70	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

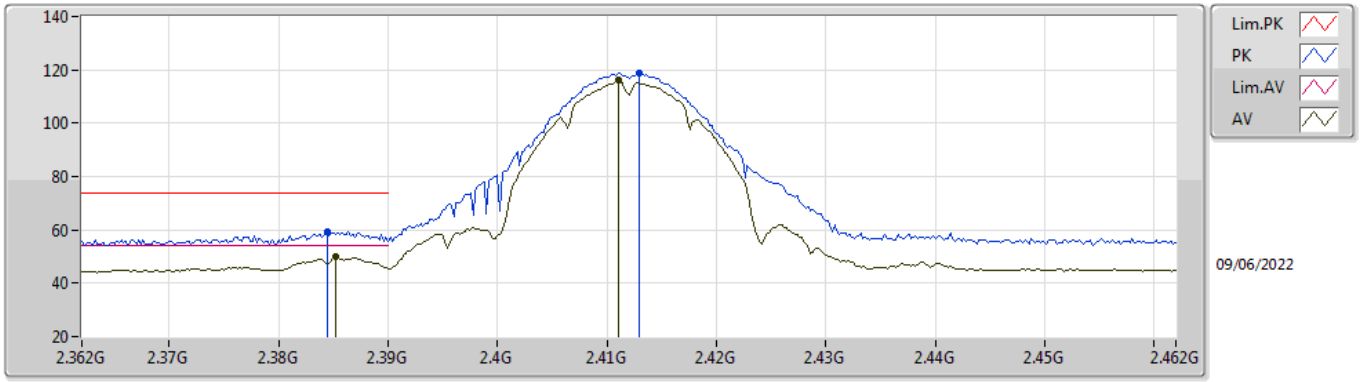


EUT Y_4TX
Setting 24.5
01-A-G-2

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	2.3874G	61.53	74.00	-12.47	30.18	3	Vertical	146	1.37	-	27.55	3.80	-
AV	2.3852G	53.25	54.00	-0.75	21.91	3	Vertical	146	1.37	-	27.54	3.80	-
PK	2.413G	123.67	Inf	-Inf	92.29	3	Vertical	146	1.37	-	27.57	3.81	-
AV	2.4112G	120.03	Inf	-Inf	88.64	3	Vertical	146	1.37	-	27.58	3.81	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

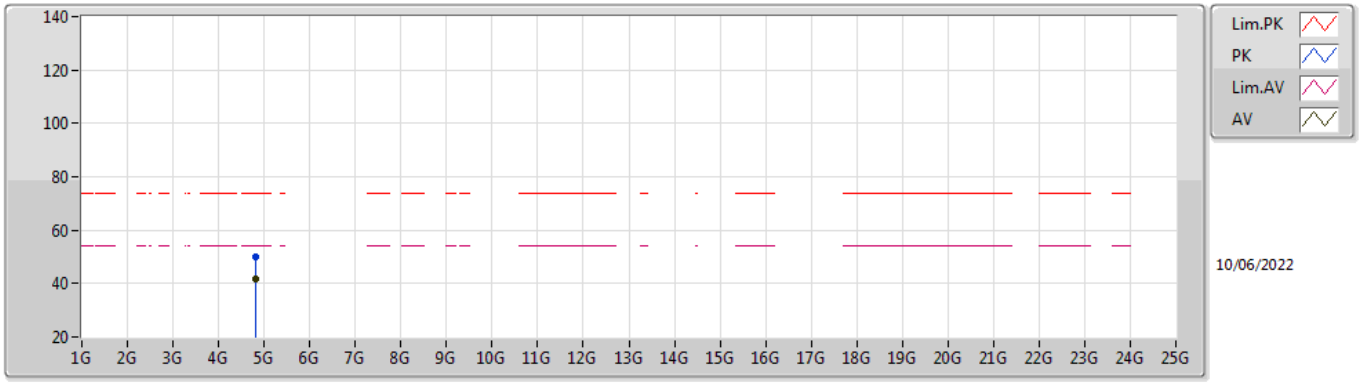


EUT Y_4TX
Setting 24.5
01-A-G-2

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	2.3844G	59.18	74.00	-14.82	27.84	3	Horizontal	268	1.80	-	27.54	3.80	-
AV	2.3852G	50.12	54.00	-3.88	18.78	3	Horizontal	268	1.80	-	27.54	3.80	-
PK	2.413G	118.80	Inf	-Inf	87.42	3	Horizontal	268	1.80	-	27.57	3.81	-
AV	2.411G	116.32	Inf	-Inf	84.93	3	Horizontal	268	1.80	-	27.58	3.81	-

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

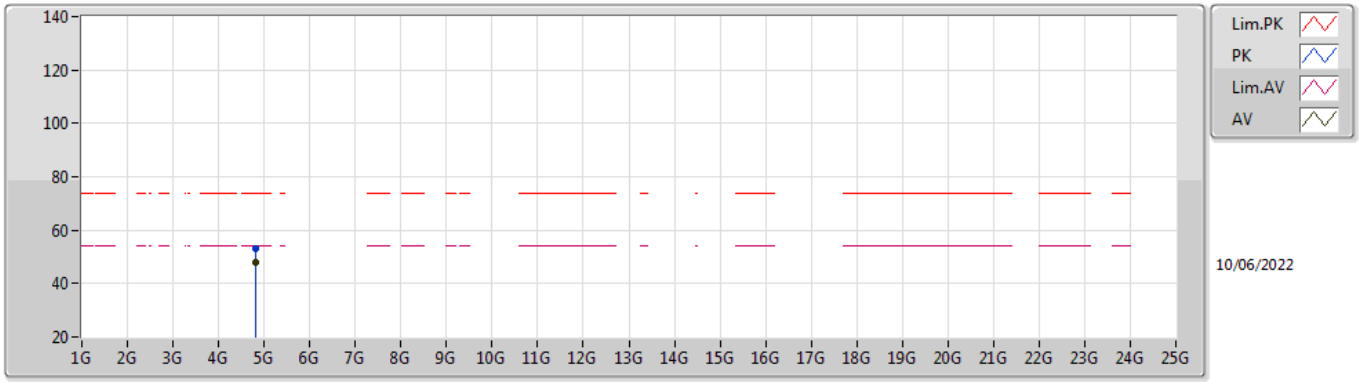


EUT X_4TX
Setting 24.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82382G	50.02	74.00	-23.98	44.16	3	Vertical	69	1.80	-	32.45	6.30	32.89
AV	4.82412G	41.88	54.00	-12.12	36.02	3	Vertical	69	1.80	-	32.45	6.30	32.89

802.11b_Nss1,(1Mbps)_4TX

2412MHz_TX

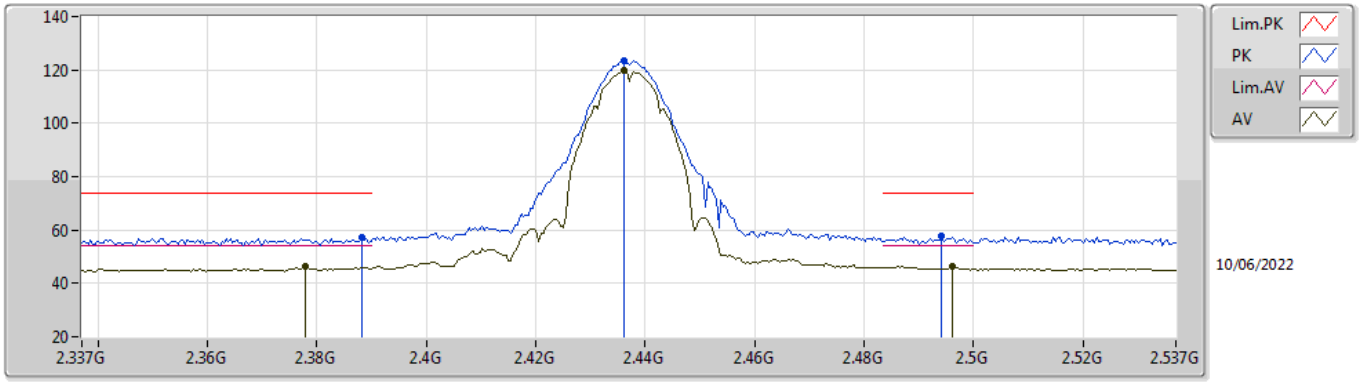


EUT X_4TX
Setting 24.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.824G	53.03	74.00	-20.97	47.17	3	Horizontal	136	1.79	-	32.45	6.30	32.89
AV	4.82394G	48.03	54.00	-5.97	42.17	3	Horizontal	136	1.79	-	32.45	6.30	32.89

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

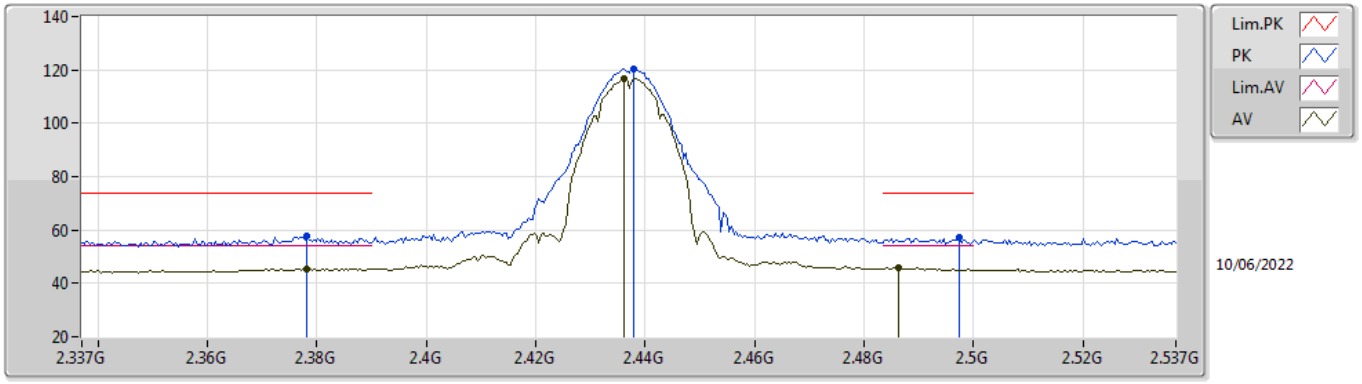


EUT Y_4TX
Setting 27
01-A-S-8

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	2.3882G	57.24	74.00	-16.76	25.89	3	Vertical	341	1.64	-	27.55	3.80	-
AV	2.3778G	46.20	54.00	-7.80	14.89	3	Vertical	341	1.64	-	27.51	3.80	-
PK	2.4362G	123.28	Inf	-Inf	91.93	3	Vertical	341	1.64	-	27.53	3.82	-
AV	2.4362G	119.63	Inf	-Inf	88.28	3	Vertical	341	1.64	-	27.53	3.82	-
PK	2.4942G	57.92	74.00	-16.08	26.30	3	Vertical	341	1.64	-	27.77	3.85	-
AV	2.4962G	46.33	54.00	-7.67	14.70	3	Vertical	341	1.64	-	27.78	3.85	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

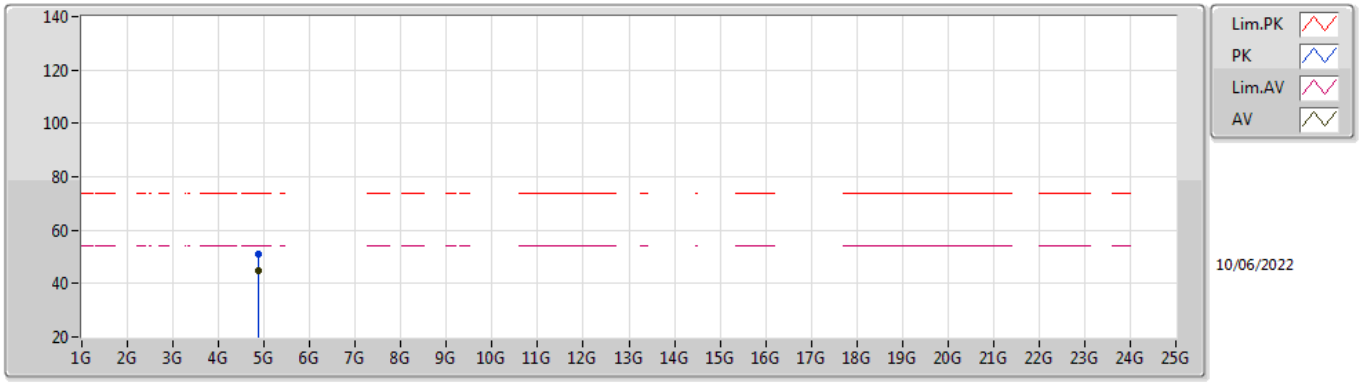


EUT Y_4TX
Setting 27
01-A-S-8

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	2.3782G	57.78	74.00	-16.22	26.47	3	Horizontal	265	1.80	-	27.51	3.80	-
AV	2.3782G	45.55	54.00	-8.45	14.24	3	Horizontal	265	1.80	-	27.51	3.80	-
PK	2.4378G	120.55	Inf	-Inf	89.21	3	Horizontal	265	1.80	-	27.52	3.82	-
AV	2.4362G	116.67	Inf	-Inf	85.32	3	Horizontal	265	1.80	-	27.53	3.82	-
PK	2.4974G	57.03	74.00	-16.97	25.40	3	Horizontal	265	1.80	-	27.78	3.85	-
AV	2.4862G	45.82	54.00	-8.18	14.26	3	Horizontal	265	1.80	-	27.72	3.84	-

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

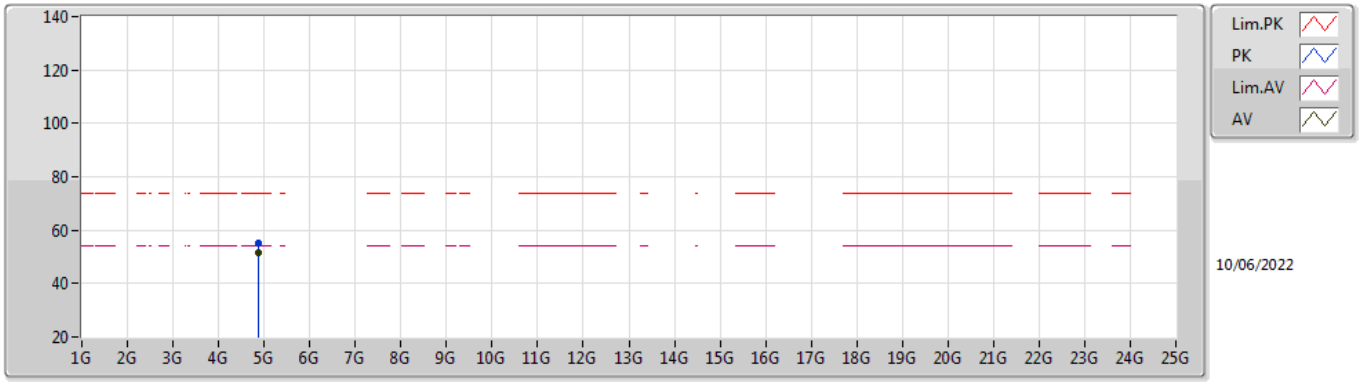


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87412G	51.09	74.00	-22.91	45.12	3	Vertical	91	1.77	-	32.55	6.30	32.88
AV	4.87406G	45.07	54.00	-8.93	39.10	3	Vertical	91	1.77	-	32.55	6.30	32.88

802.11b_Nss1,(1Mbps)_4TX

2437MHz_TX

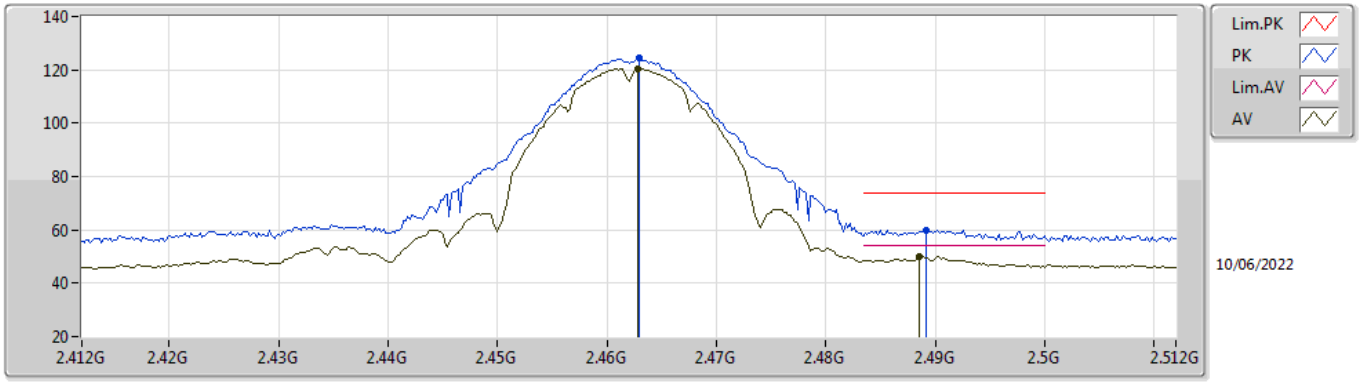


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.874G	54.94	74.00	-19.06	48.97	3	Horizontal	33	1.80	-	32.55	6.30	32.88
AV	4.87406G	51.40	54.00	-2.60	45.43	3	Horizontal	33	1.80	-	32.55	6.30	32.88

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

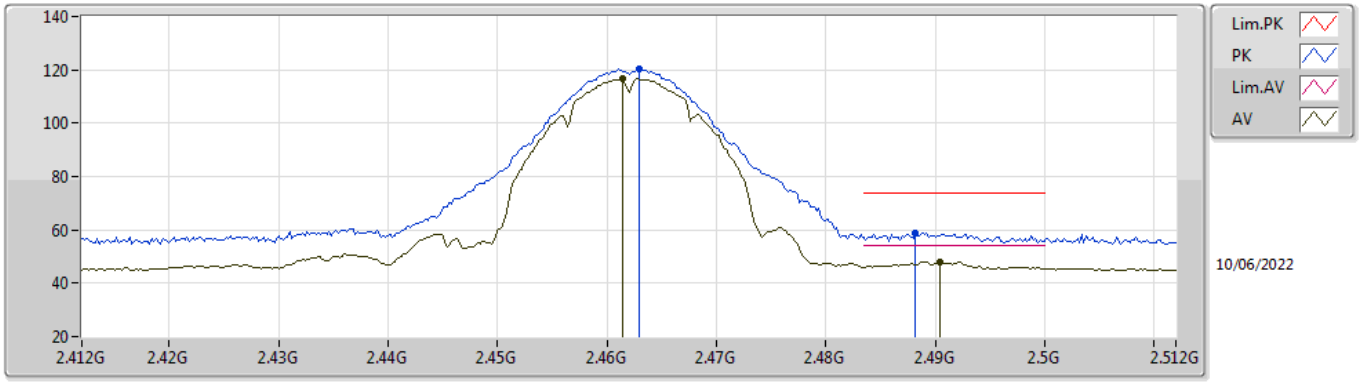


EUT Y_4TX
Setting 27
01-A-S-8

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	2.463G	124.26	Inf	-Inf	92.85	3	Vertical	155	1.26	-	27.58	3.83	-
AV	2.4628G	120.47	Inf	-Inf	89.06	3	Vertical	155	1.26	-	27.58	3.83	-
PK	2.4892G	60.00	74.00	-14.00	28.42	3	Vertical	155	1.26	-	27.74	3.84	-
AV	2.4886G	49.93	54.00	-4.07	18.36	3	Vertical	155	1.26	-	27.73	3.84	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

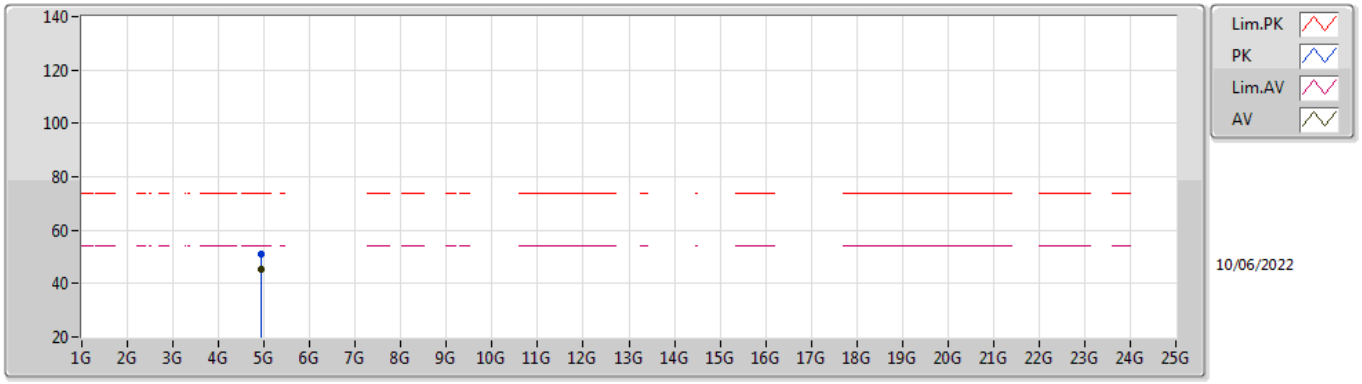


EUT Y_4TX
Setting 27
01-A-S-8

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	2.463G	120.43	Inf	-Inf	89.02	3	Horizontal	264	1.76	-	27.58	3.83	-
AV	2.4614G	116.63	Inf	-Inf	85.23	3	Horizontal	264	1.76	-	27.57	3.83	-
PK	2.4882G	59.05	74.00	-14.95	27.48	3	Horizontal	264	1.76	-	27.73	3.84	-
AV	2.4904G	47.95	54.00	-6.05	16.36	3	Horizontal	264	1.76	-	27.74	3.85	-

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

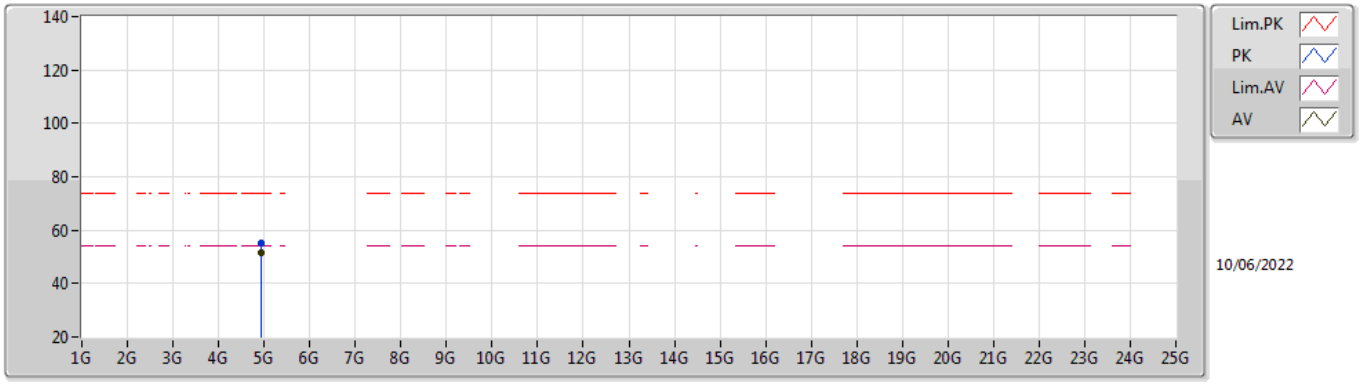


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92388G	51.08	74.00	-22.92	45.00	3	Vertical	92	1.90	-	32.65	6.30	32.87
AV	4.92406G	45.33	54.00	-8.67	39.25	3	Vertical	92	1.90	-	32.65	6.30	32.87

802.11b_Nss1,(1Mbps)_4TX

2462MHz_TX

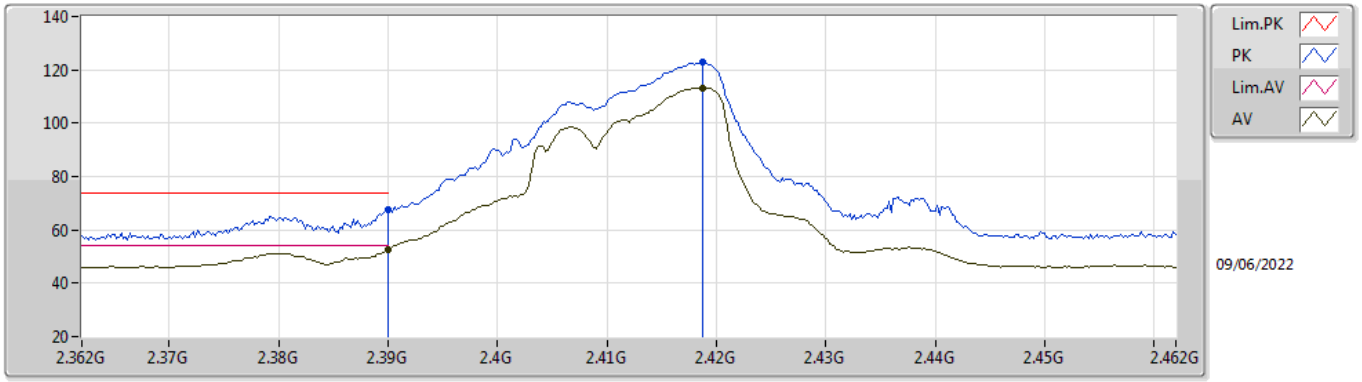


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92388G	55.01	74.00	-18.99	48.93	3	Horizontal	44	1.78	-	32.65	6.30	32.87
AV	4.92394G	51.50	54.00	-2.50	45.42	3	Horizontal	44	1.78	-	32.65	6.30	32.87

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

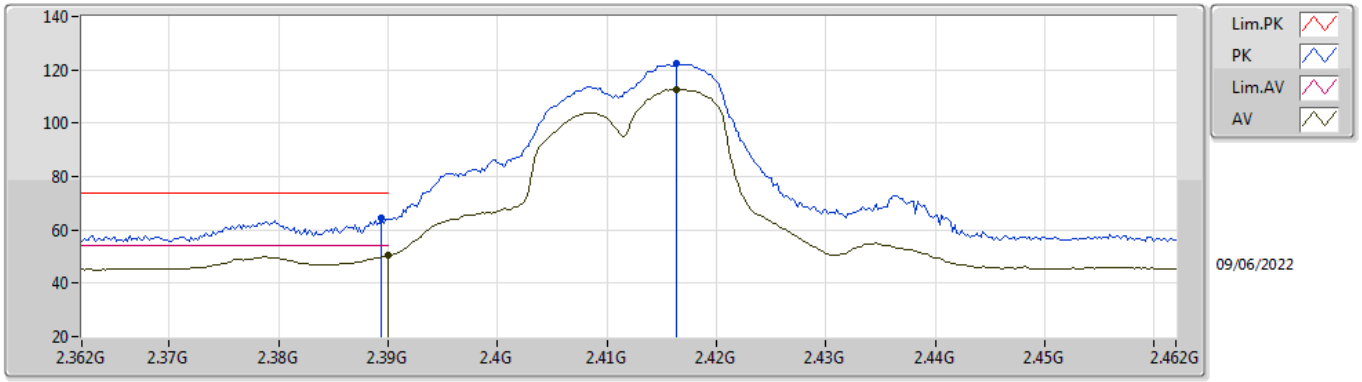


EUT Y_4TX
Setting 23
01-A-G-2

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	67.65	74.00	-6.35	36.29	3	Vertical	273	1.77	-	27.56	3.80	-
AV	2.39G	52.84	54.00	-1.16	21.48	3	Vertical	273	1.77	-	27.56	3.80	-
PK	2.4188G	122.71	Inf	-Inf	91.34	3	Vertical	273	1.77	-	27.56	3.81	-
AV	2.4188G	113.18	Inf	-Inf	81.81	3	Vertical	273	1.77	-	27.56	3.81	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

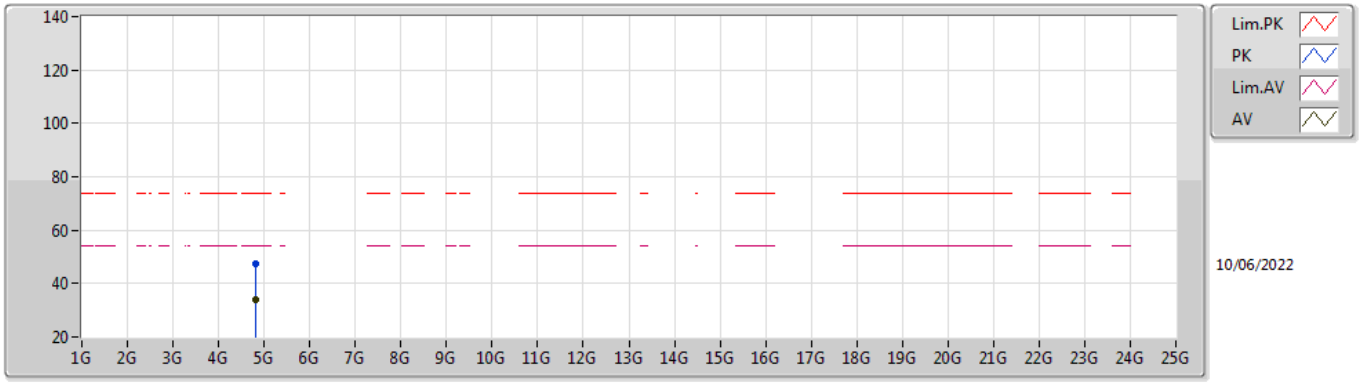


EUT Y_4TX
Setting 23
01-A-G-2

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	2.3894G	64.47	74.00	-9.53	33.11	3	Horizontal	102	1.84	-	27.56	3.80	-
AV	2.39G	50.40	54.00	-3.60	19.04	3	Horizontal	102	1.84	-	27.56	3.80	-
PK	2.4164G	122.49	Inf	-Inf	91.11	3	Horizontal	102	1.84	-	27.57	3.81	-
AV	2.4164G	112.73	Inf	-Inf	81.35	3	Horizontal	102	1.84	-	27.57	3.81	-

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

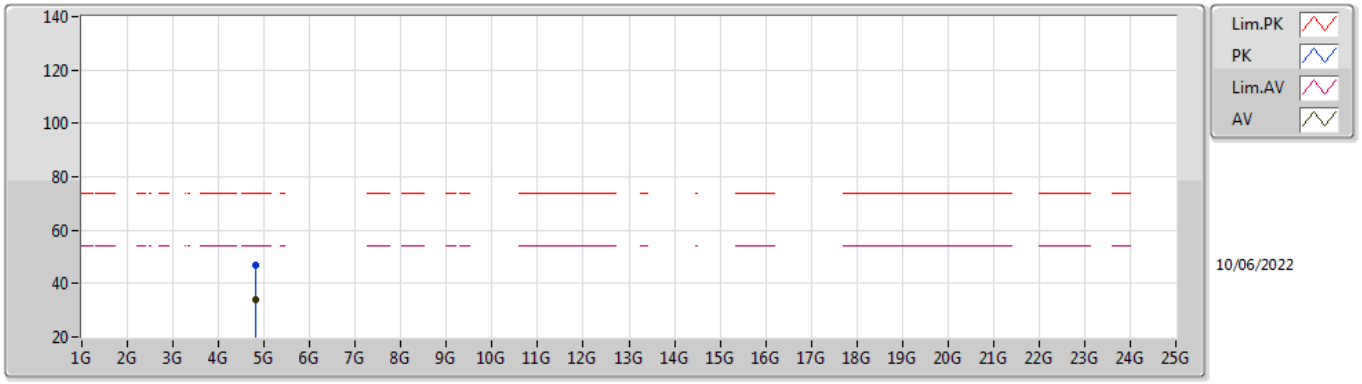


EUT X_4TX
Setting 23
01-A-G-2

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	4.81944G	47.32	74.00	-26.68	41.47	3	Vertical	25	1.47	-	32.44	6.30	32.89
AV	4.82732G	33.88	54.00	-20.12	28.01	3	Vertical	25	1.47	-	32.45	6.30	32.88

802.11g_Nss1,(6Mbps)_4TX

2412MHz_TX

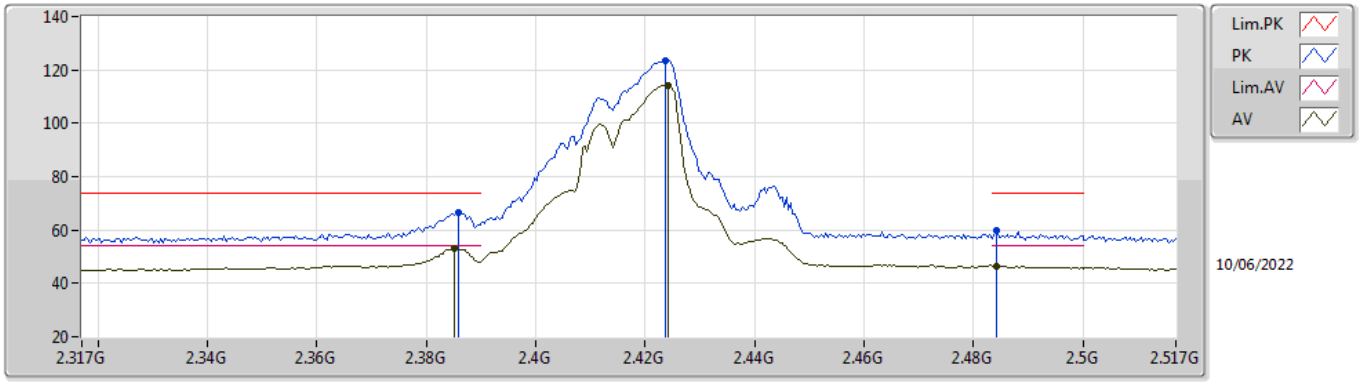


EUT X_4TX
Setting 23
01-A-G-2

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	4.82576G	47.11	74.00	-26.89	41.24	3	Horizontal	9	2.60	-	32.45	6.30	32.88
AV	4.81922G	33.77	54.00	-20.23	27.92	3	Horizontal	9	2.60	-	32.44	6.30	32.89

802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX

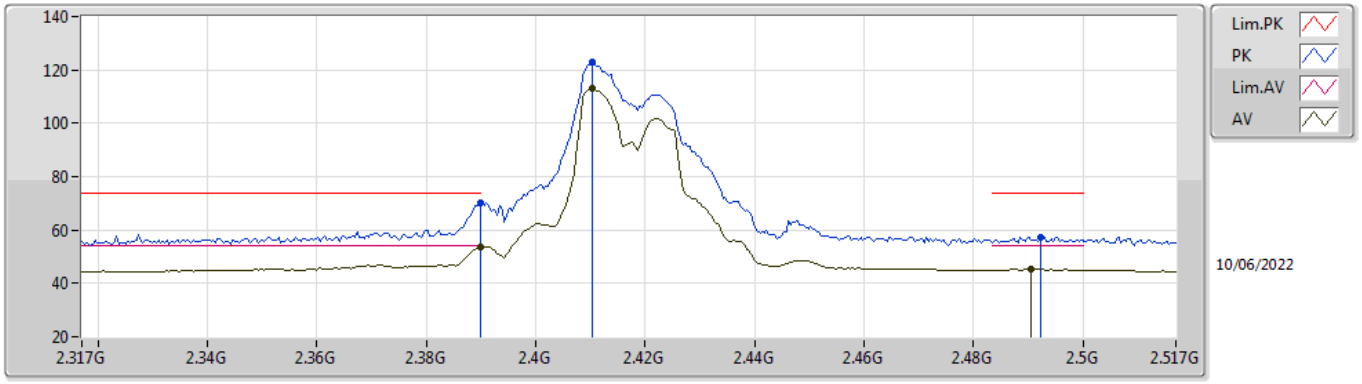


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3858G	66.68	74.00	-7.32	35.34	3	Vertical	273	1.77	-	27.54	3.80	-
AV	2.385G	53.25	54.00	-0.75	21.91	3	Vertical	273	1.77	-	27.54	3.80	-
PK	2.4238G	123.56	Inf	-Inf	92.20	3	Vertical	273	1.77	-	27.55	3.81	-
AV	2.4242G	114.26	Inf	-Inf	82.90	3	Vertical	273	1.77	-	27.55	3.81	-
PK	2.4842G	59.98	74.00	-14.02	28.43	3	Vertical	273	1.77	-	27.71	3.84	-
AV	2.4842G	46.45	54.00	-7.55	14.90	3	Vertical	273	1.77	-	27.71	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2417MHz_TX

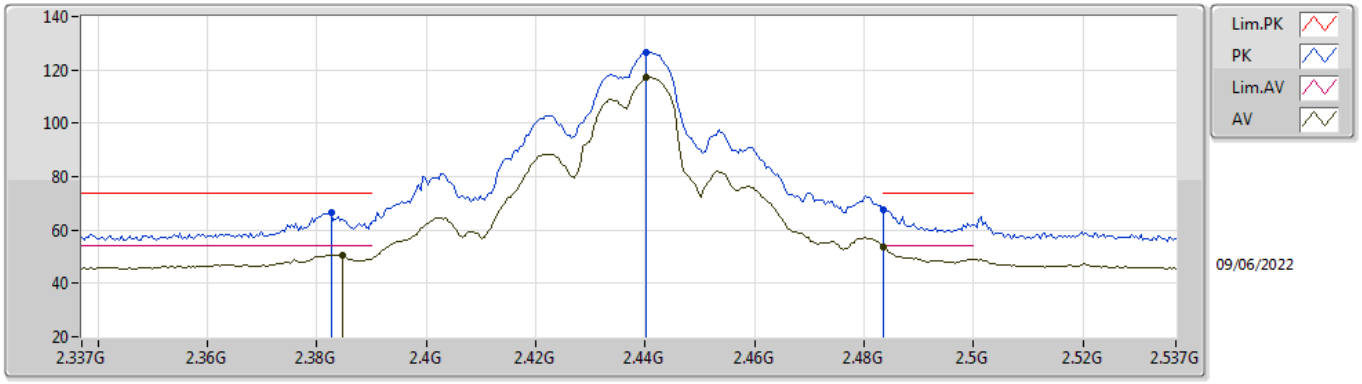


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3898G	70.30	74.00	-3.70	38.94	3	Horizontal	300	1.79	-	27.56	3.80	-
AV	2.3898G	53.56	54.00	-0.44	22.20	3	Horizontal	300	1.79	-	27.56	3.80	-
PK	2.4102G	122.70	Inf	-Inf	91.31	3	Horizontal	300	1.79	-	27.58	3.81	-
AV	2.4102G	112.96	Inf	-Inf	81.57	3	Horizontal	300	1.79	-	27.58	3.81	-
PK	2.4922G	57.43	74.00	-16.57	25.83	3	Horizontal	300	1.79	-	27.75	3.85	-
AV	2.4906G	45.32	54.00	-8.68	13.73	3	Horizontal	300	1.79	-	27.74	3.85	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

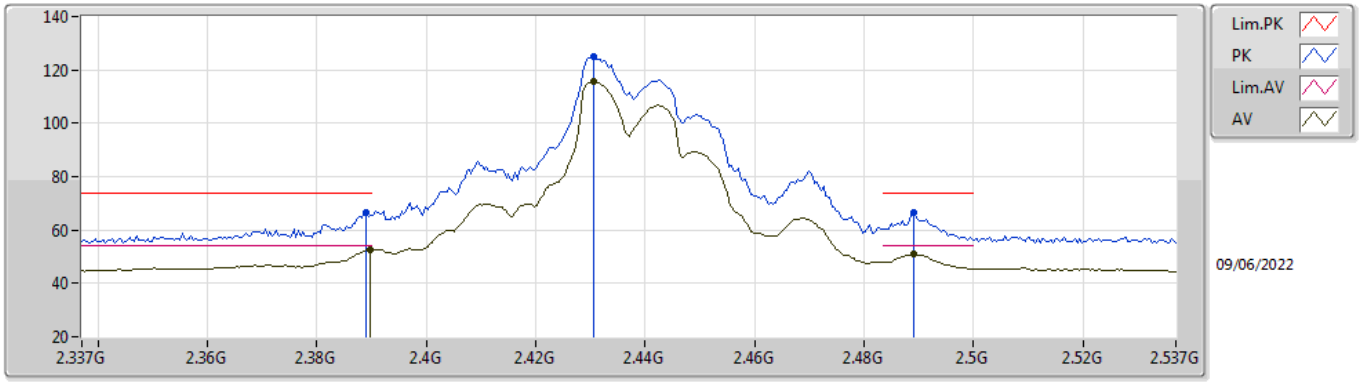


EUT Y_4TX
Setting 27
01-A-G-2

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	2.3826G	66.55	74.00	-7.45	35.22	3	Vertical	293	1.80	-	27.53	3.80	-
AV	2.3846G	50.59	54.00	-3.41	19.25	3	Vertical	293	1.80	-	27.54	3.80	-
PK	2.4402G	126.65	Inf	-Inf	95.31	3	Vertical	293	1.80	-	27.52	3.82	-
AV	2.4402G	117.09	Inf	-Inf	85.75	3	Vertical	293	1.80	-	27.52	3.82	-
PK	2.4835G	67.41	74.00	-6.59	35.87	3	Vertical	293	1.80	-	27.70	3.84	-
AV	2.4835G	53.78	54.00	-0.22	22.24	3	Vertical	293	1.80	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

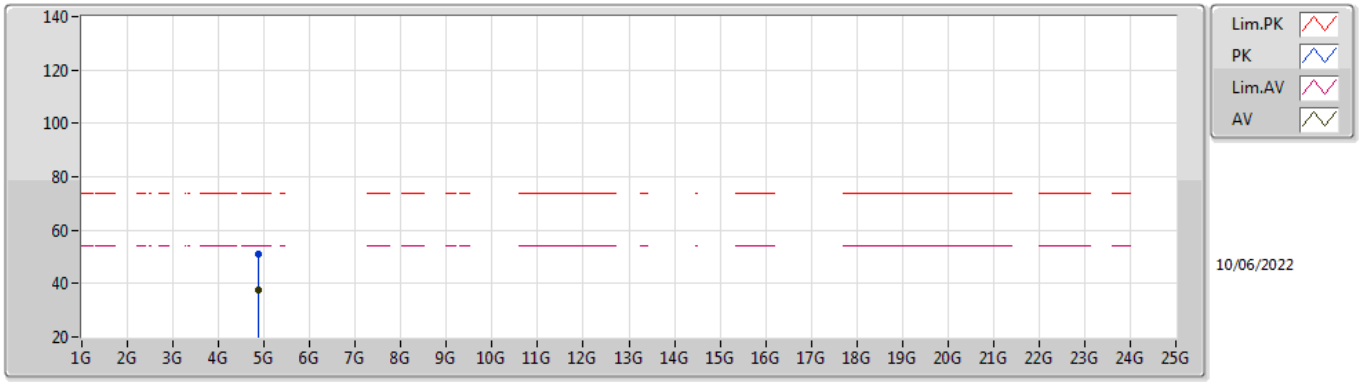


EUT Y_4TX
Setting 27
01-A-G-2

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	2.389G	66.54	74.00	-7.46	35.18	3	Horizontal	293	1.56	-	27.56	3.80	-
AV	2.3898G	52.72	54.00	-1.28	21.36	3	Horizontal	293	1.56	-	27.56	3.80	-
PK	2.4306G	124.76	Inf	-Inf	93.40	3	Horizontal	293	1.56	-	27.54	3.82	-
AV	2.4306G	115.46	Inf	-Inf	84.10	3	Horizontal	293	1.56	-	27.54	3.82	-
PK	2.489G	66.40	74.00	-7.60	34.83	3	Horizontal	293	1.56	-	27.73	3.84	-
AV	2.489G	51.01	54.00	-2.99	19.44	3	Horizontal	293	1.56	-	27.73	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

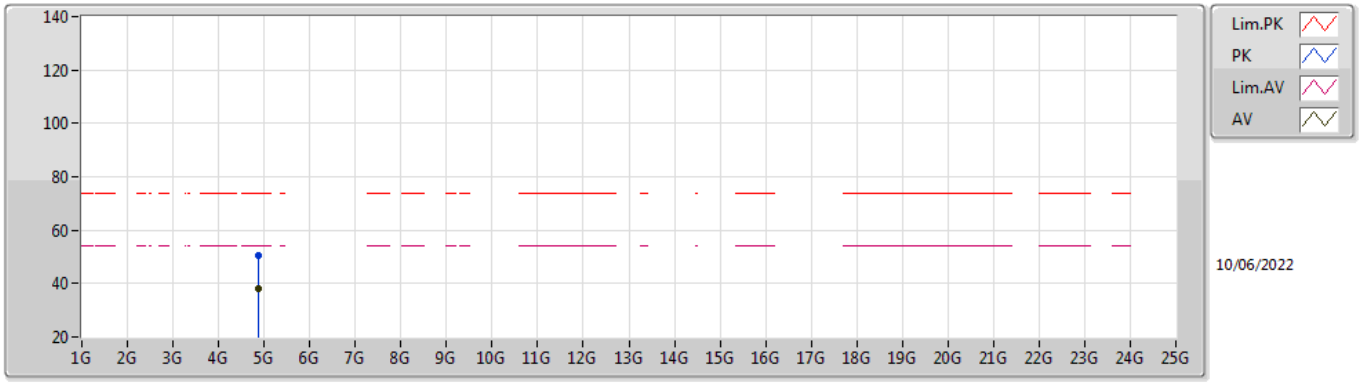


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87592G	50.90	74.00	-23.10	44.92	3	Vertical	149	1.82	-	32.55	6.30	32.87
AV	4.87556G	37.65	54.00	-16.35	31.67	3	Vertical	149	1.82	-	32.55	6.30	32.87

802.11g_Nss1,(6Mbps)_4TX

2437MHz_TX

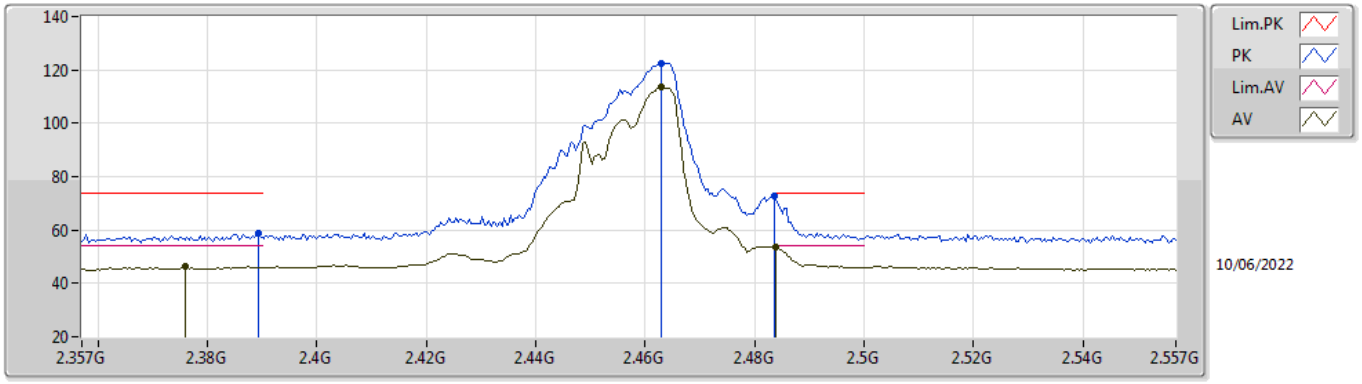


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8716G	50.72	74.00	-23.28	44.76	3	Horizontal	31	1.50	-	32.54	6.30	32.88
AV	4.87724G	37.91	54.00	-16.09	31.93	3	Horizontal	31	1.50	-	32.55	6.30	32.87

802.11g_Nss1,(6Mbps)_4TX

2457MHz_TX

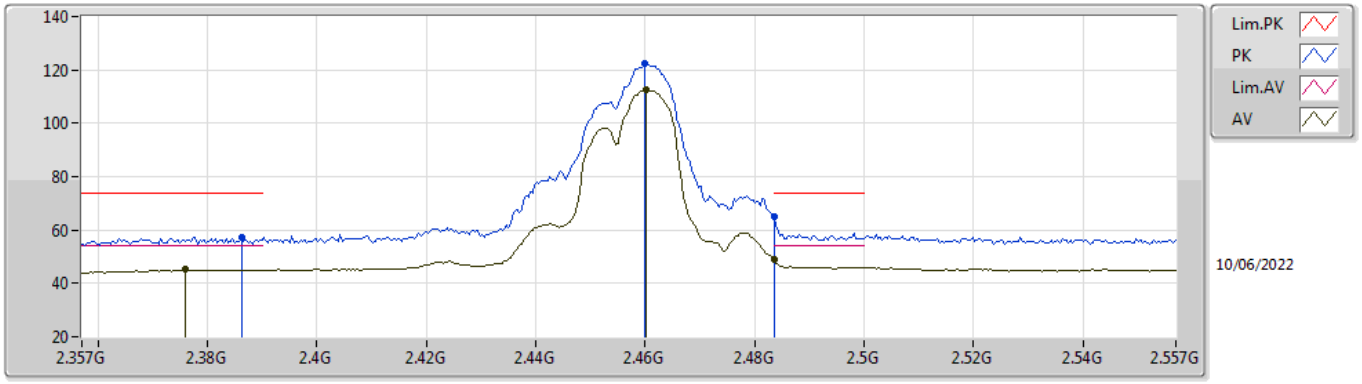


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3894G	58.57	74.00	-15.43	27.21	3	Vertical	274	1.58	-	27.56	3.80	-
AV	2.3758G	46.19	54.00	-7.81	14.89	3	Vertical	274	1.58	-	27.50	3.80	-
PK	2.463G	122.59	Inf	-Inf	91.18	3	Vertical	274	1.58	-	27.58	3.83	-
AV	2.463G	113.50	Inf	-Inf	82.09	3	Vertical	274	1.58	-	27.58	3.83	-
PK	2.4835G	72.84	74.00	-1.16	41.30	3	Vertical	274	1.58	-	27.70	3.84	-
AV	2.4838G	53.50	54.00	-0.50	21.96	3	Vertical	274	1.58	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2457MHz_TX

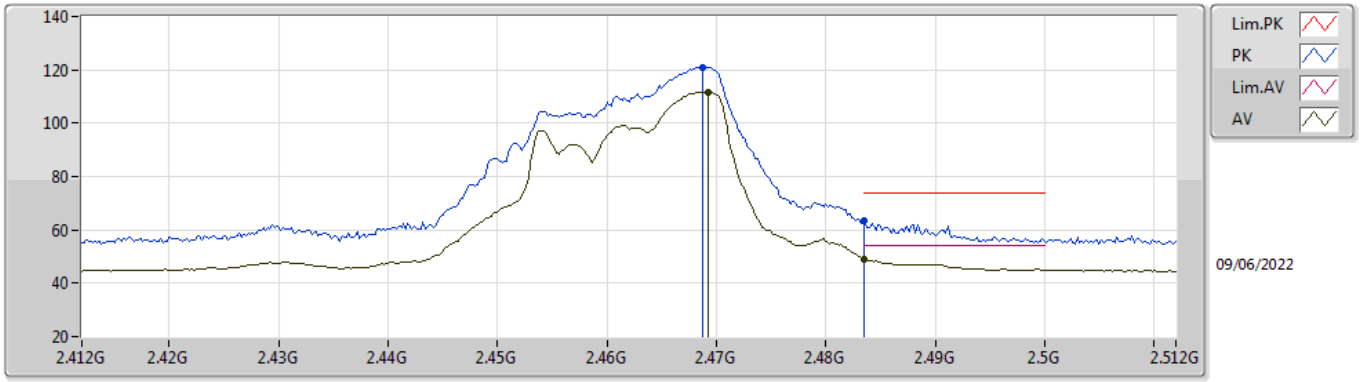


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3862G	57.49	74.00	-16.51	26.15	3	Horizontal	41	1.99	-	27.54	3.80	-
AV	2.3758G	45.41	54.00	-8.59	14.11	3	Horizontal	41	1.99	-	27.50	3.80	-
PK	2.4598G	122.42	Inf	-Inf	91.03	3	Horizontal	41	1.99	-	27.56	3.83	-
AV	2.4602G	112.76	Inf	-Inf	81.37	3	Horizontal	41	1.99	-	27.56	3.83	-
PK	2.4835G	64.88	74.00	-9.12	33.34	3	Horizontal	41	1.99	-	27.70	3.84	-
AV	2.4835G	48.81	54.00	-5.19	17.27	3	Horizontal	41	1.99	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

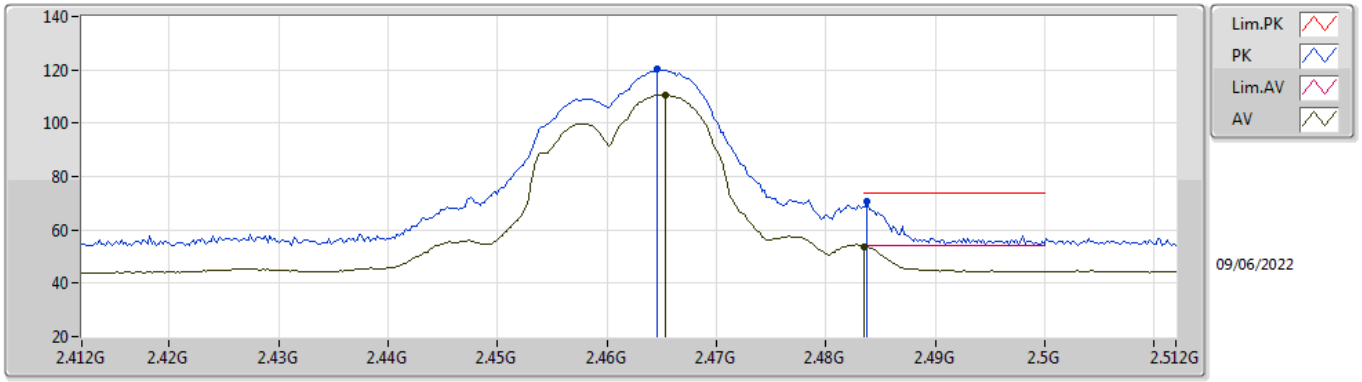


EUT Y_4TX
Setting 21.5
01-A-G-2

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	2.4688G	121.04	Inf	-Inf	89.60	3	Vertical	265	1.80	-	27.61	3.83	-
AV	2.4692G	111.81	Inf	-Inf	80.36	3	Vertical	265	1.80	-	27.62	3.83	-
PK	2.4835G	63.30	74.00	-10.70	31.76	3	Vertical	265	1.80	-	27.70	3.84	-
AV	2.4835G	49.18	54.00	-4.82	17.64	3	Vertical	265	1.80	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

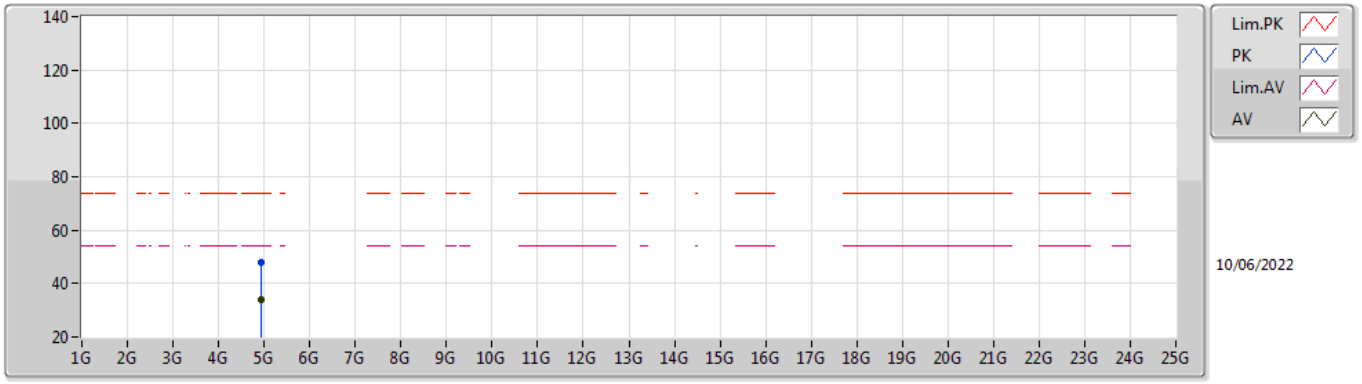


EUT Y_4TX
Setting 21.5
01-A-G-2

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	2.4646G	120.43	Inf	-Inf	89.01	3	Horizontal	34	1.52	-	27.59	3.83	-
AV	2.4654G	110.61	Inf	-Inf	79.19	3	Horizontal	34	1.52	-	27.59	3.83	-
PK	2.4838G	70.55	74.00	-3.45	39.01	3	Horizontal	34	1.52	-	27.70	3.84	-
AV	2.4835G	53.77	54.00	-0.23	22.23	3	Horizontal	34	1.52	-	27.70	3.84	-

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

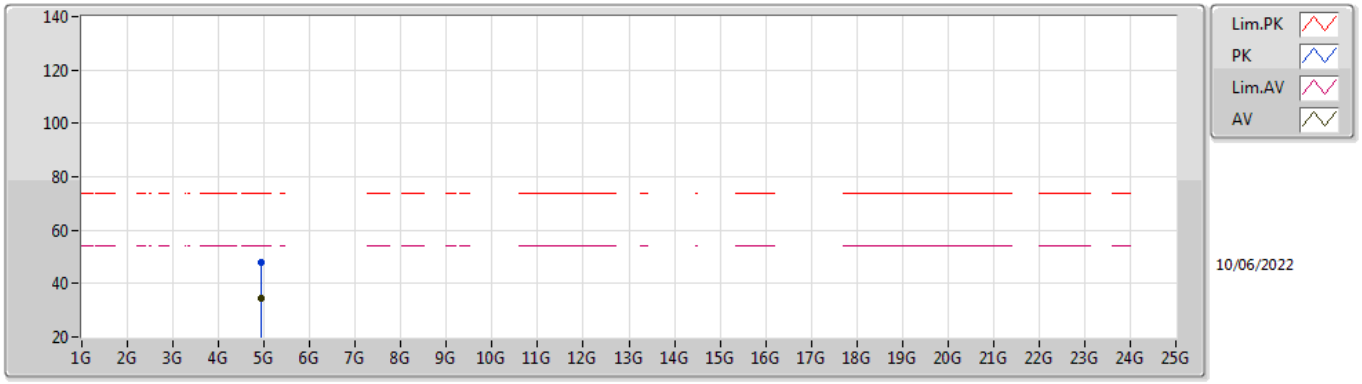


EUT X_4TX
Setting 21.5
01-A-G-2

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	4.9284G	48.03	74.00	-25.97	41.93	3	Vertical	0	1.37	-	32.66	6.30	32.86
AV	4.9279G	34.17	54.00	-19.83	28.07	3	Vertical	0	1.37	-	32.66	6.30	32.86

802.11g_Nss1,(6Mbps)_4TX

2462MHz_TX

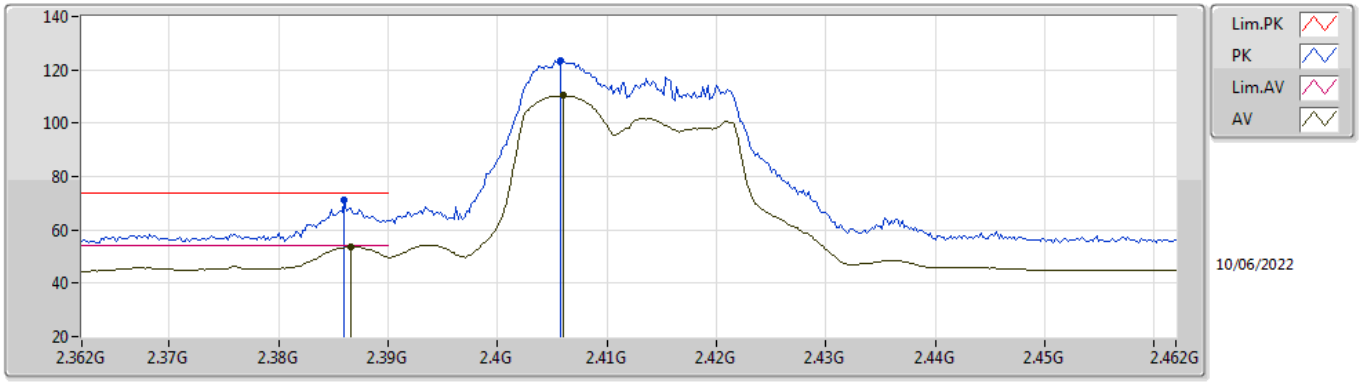


EUT X_4TX
Setting 21.5
01-A-G-2

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	4.92268G	47.77	74.00	-26.23	41.69	3	Horizontal	288	2.47	-	32.65	6.30	32.87
AV	4.92848G	34.23	54.00	-19.77	28.13	3	Horizontal	288	2.47	-	32.66	6.30	32.86

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

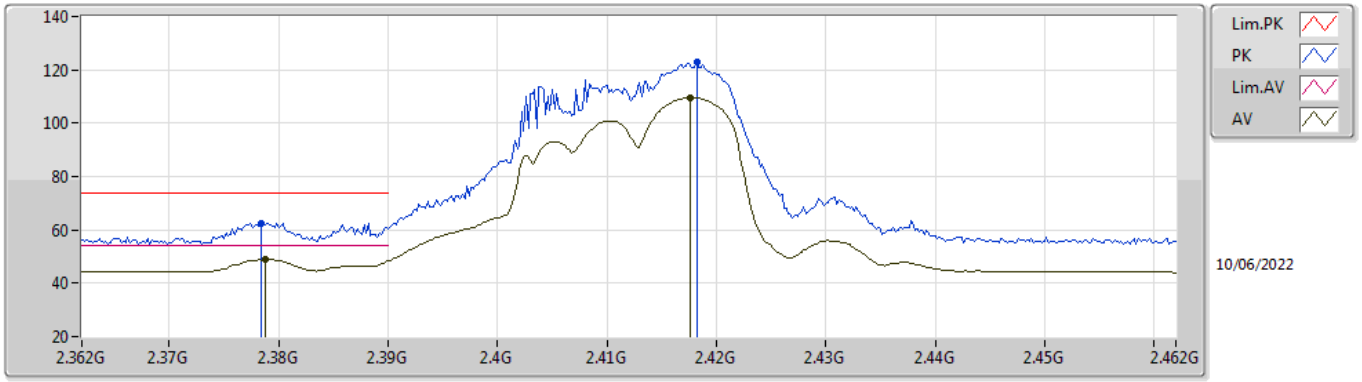


EUT Y_4TX
Setting 20.5
01-A-S-8

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	2.386G	71.01	74.00	-2.99	39.67	3	Vertical	273	1.88	-	27.54	3.80	-
AV	2.3866G	53.77	54.00	-0.23	22.42	3	Vertical	273	1.88	-	27.55	3.80	-
PK	2.4058G	123.60	Inf	-Inf	92.21	3	Vertical	273	1.88	-	27.59	3.80	-
AV	2.406G	110.27	Inf	-Inf	78.88	3	Vertical	273	1.88	-	27.59	3.80	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

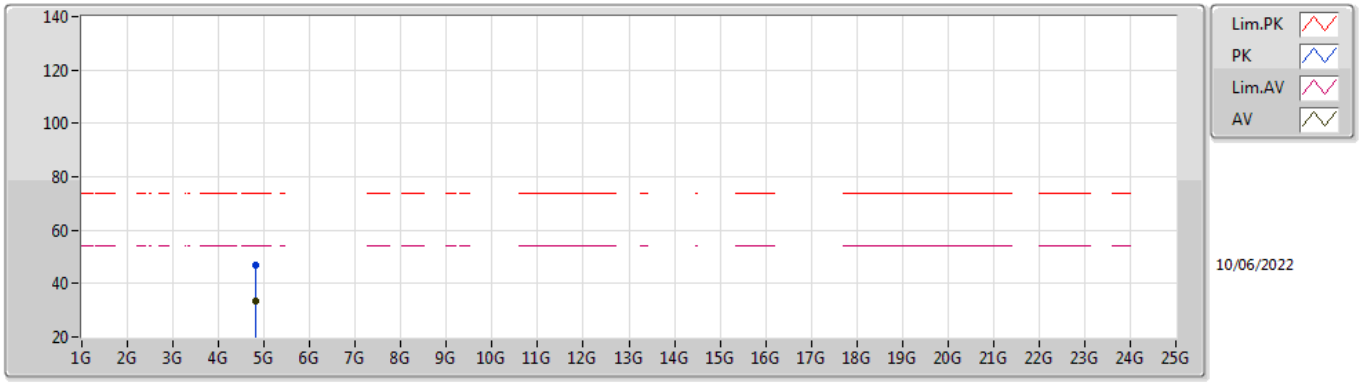


EUT Y_4TX
Setting 20.5
01-A-S-8

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	2.3784G	62.52	74.00	-11.48	31.21	3	Horizontal	304	1.80	-	27.51	3.80	-
AV	2.3788G	49.07	54.00	-4.93	17.75	3	Horizontal	304	1.80	-	27.52	3.80	-
PK	2.4182G	123.00	Inf	-Inf	91.63	3	Horizontal	304	1.80	-	27.56	3.81	-
AV	2.4176G	109.59	Inf	-Inf	78.22	3	Horizontal	304	1.80	-	27.56	3.81	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

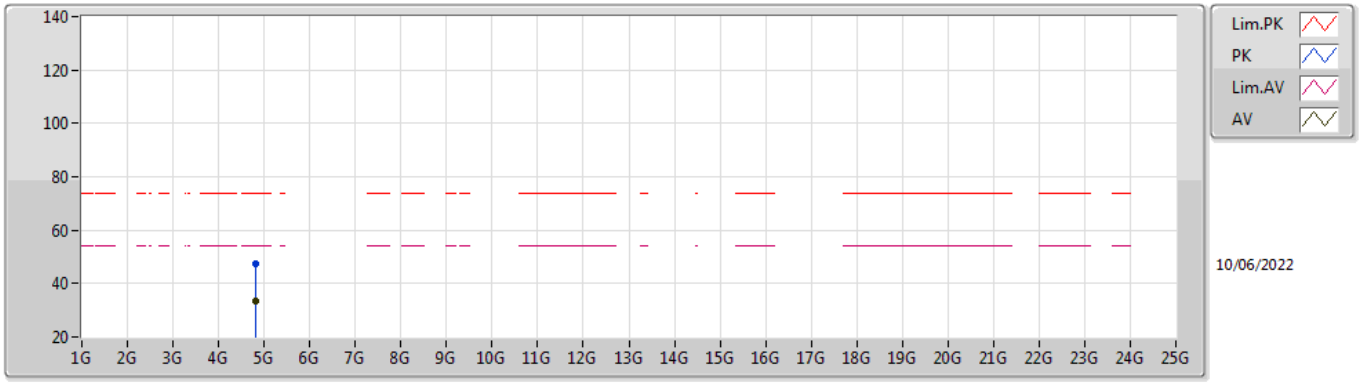


EUT X_4TX
Setting 20.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8211G	46.78	74.00	-27.22	40.93	3	Vertical	288	1.71	-	32.44	6.30	32.89
AV	4.82302G	33.35	54.00	-20.65	27.49	3	Vertical	288	1.71	-	32.45	6.30	32.89

802.11ax HEW20_Nss1,(MCS0)_4TX

2412MHz_TX

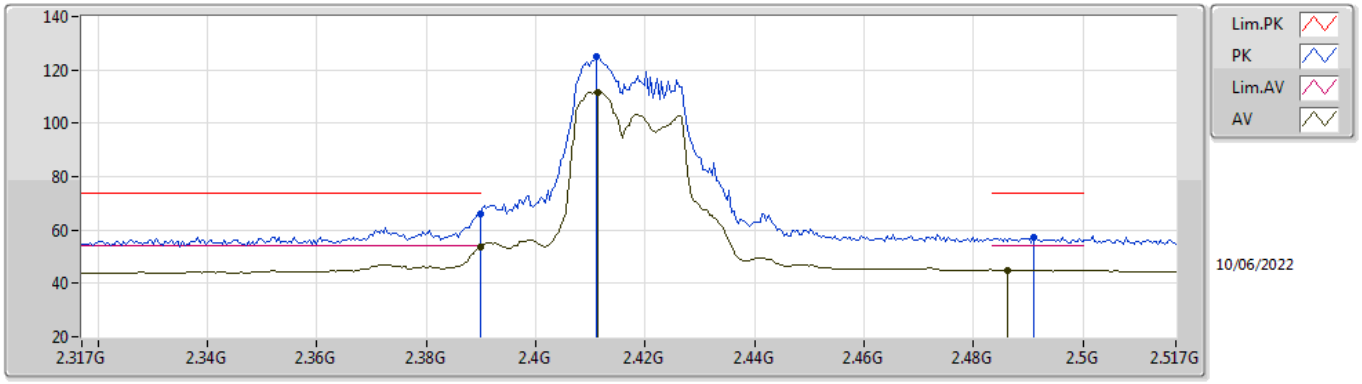


EUT X_4TX
Setting 20.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.82582G	47.59	74.00	-26.41	41.72	3	Horizontal	126	2.62	-	32.45	6.30	32.88
AV	4.82724G	33.22	54.00	-20.78	27.35	3	Horizontal	126	2.62	-	32.45	6.30	32.88

802.11ax HEW20_Nss1,(MCS0)_4TX

2417MHz_TX

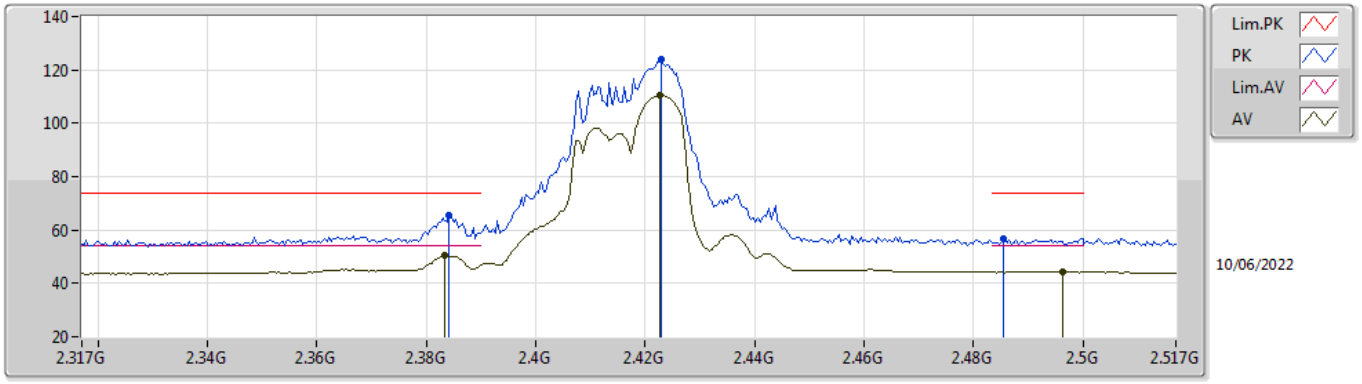


EUT Y_4TX
Setting 22
01-A-S-8

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	2.3898G	66.20	74.00	-7.80	34.84	3	Vertical	271	1.87	-	27.56	3.80	-
AV	2.3898G	53.79	54.00	-0.21	22.43	3	Vertical	271	1.87	-	27.56	3.80	-
PK	2.411G	125.03	Inf	-Inf	93.64	3	Vertical	271	1.87	-	27.58	3.81	-
AV	2.4114G	111.79	Inf	-Inf	80.40	3	Vertical	271	1.87	-	27.58	3.81	-
PK	2.491G	57.06	74.00	-16.94	25.46	3	Vertical	271	1.87	-	27.75	3.85	-
AV	2.4862G	45.02	54.00	-8.98	13.46	3	Vertical	271	1.87	-	27.72	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2417MHz_TX

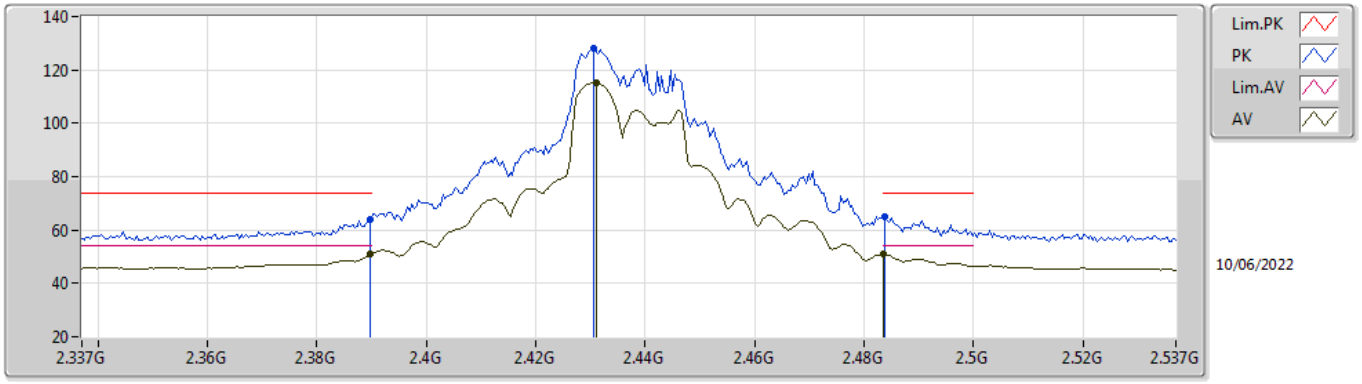


EUT Y_4TX
Setting 22
01-A-S-8

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	2.3842G	65.35	74.00	-8.65	34.01	3	Horizontal	299	1.80	-	27.54	3.80	-
AV	2.3834G	50.37	54.00	-3.63	19.04	3	Horizontal	299	1.80	-	27.53	3.80	-
PK	2.423G	123.82	Inf	-Inf	92.46	3	Horizontal	299	1.80	-	27.55	3.81	-
AV	2.4226G	110.47	Inf	-Inf	79.11	3	Horizontal	299	1.80	-	27.55	3.81	-
PK	2.4854G	56.84	74.00	-17.16	25.29	3	Horizontal	299	1.80	-	27.71	3.84	-
AV	2.4962G	44.52	54.00	-9.48	12.89	3	Horizontal	299	1.80	-	27.78	3.85	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

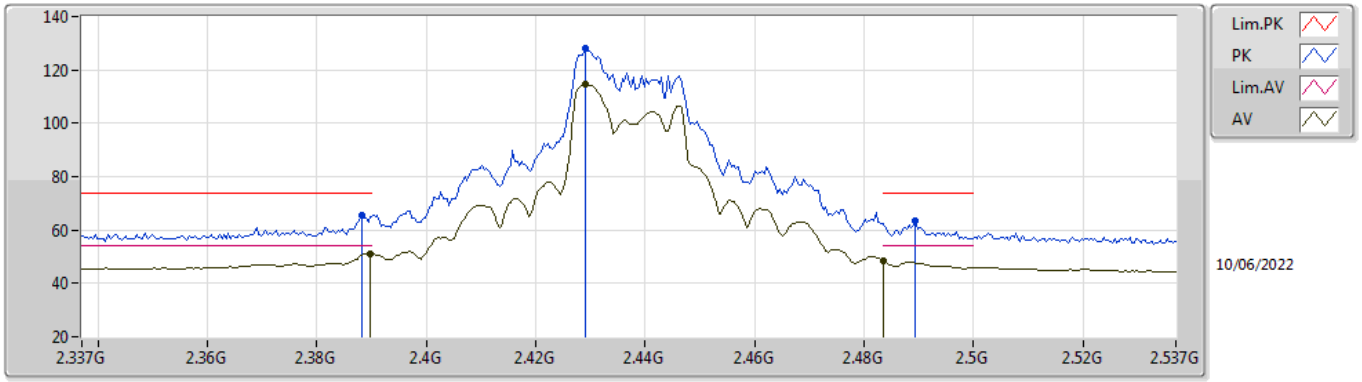


EUT Y_4TX
Setting 27
01-A-S-8

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	2.3898G	63.82	74.00	-10.18	32.46	3	Vertical	270	1.80	-	27.56	3.80	-
AV	2.3898G	50.90	54.00	-3.10	19.54	3	Vertical	270	1.80	-	27.56	3.80	-
PK	2.4306G	128.07	Inf	-Inf	96.71	3	Vertical	270	1.80	-	27.54	3.82	-
AV	2.431G	115.23	Inf	-Inf	83.87	3	Vertical	270	1.80	-	27.54	3.82	-
PK	2.4838G	64.78	74.00	-9.22	33.24	3	Vertical	270	1.80	-	27.70	3.84	-
AV	2.4835G	51.04	54.00	-2.96	19.50	3	Vertical	270	1.80	-	27.70	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

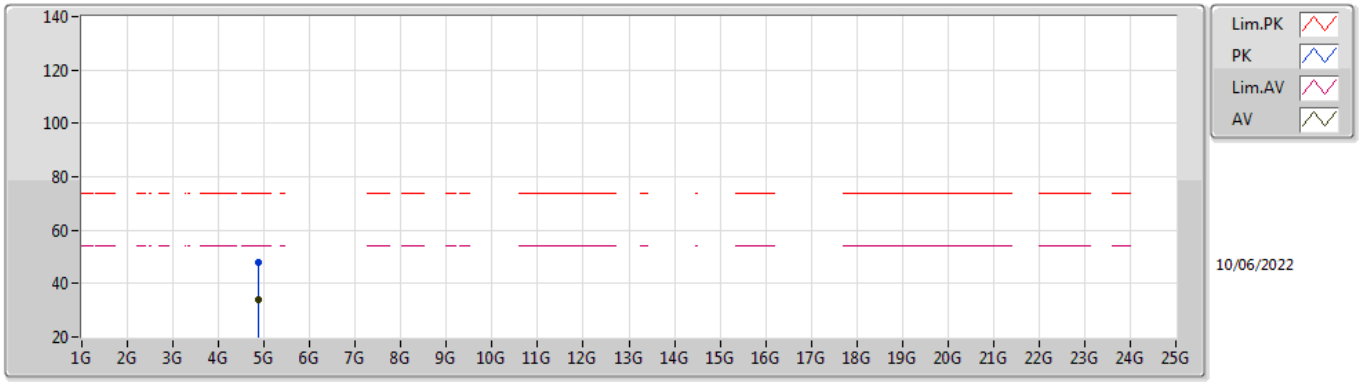


EUT Y_4TX
Setting 27
01-A-S-8

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	2.3882G	65.28	74.00	-8.72	33.93	3	Horizontal	117	1.96	-	27.55	3.80	-
AV	2.3898G	51.16	54.00	-2.84	19.80	3	Horizontal	117	1.96	-	27.56	3.80	-
PK	2.429G	127.99	Inf	-Inf	96.64	3	Horizontal	117	1.96	-	27.54	3.81	-
AV	2.429G	114.62	Inf	-Inf	83.27	3	Horizontal	117	1.96	-	27.54	3.81	-
PK	2.4894G	63.26	74.00	-10.74	31.68	3	Horizontal	117	1.96	-	27.74	3.84	-
AV	2.4835G	48.59	54.00	-5.41	17.05	3	Horizontal	117	1.96	-	27.70	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

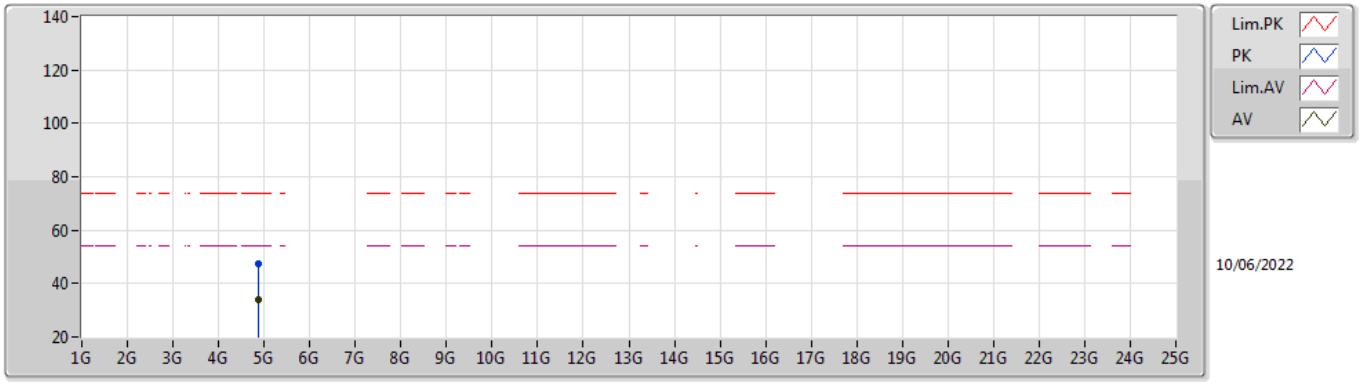


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.876G	47.74	74.00	-26.26	41.76	3	Vertical	349	1.80	-	32.55	6.30	32.87
AV	4.87788G	33.79	54.00	-20.21	27.80	3	Vertical	349	1.80	-	32.56	6.30	32.87

802.11ax HEW20_Nss1,(MCS0)_4TX

2437MHz_TX

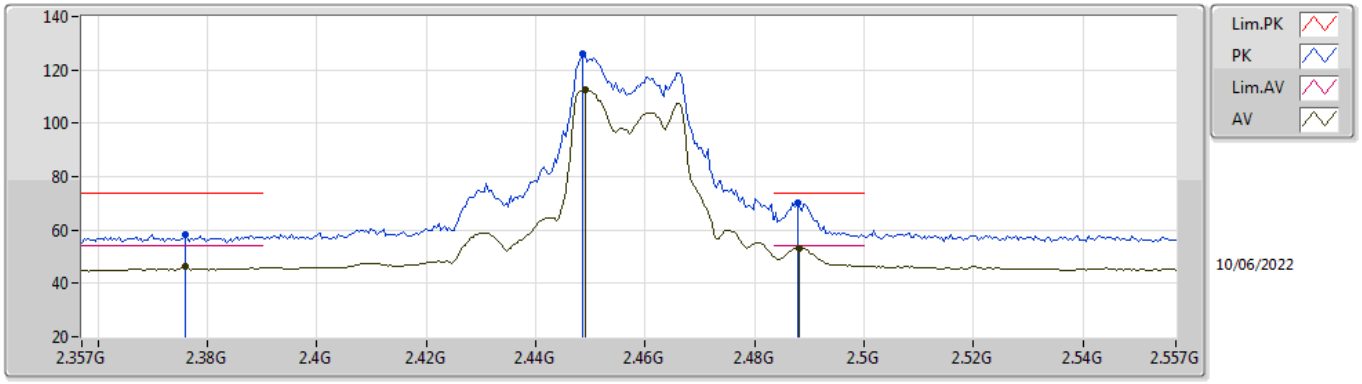


EUT X_4TX
Setting 27
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87452G	47.60	74.00	-26.40	41.63	3	Horizontal	15	2.59	-	32.55	6.30	32.88
AV	4.87664G	33.83	54.00	-20.17	27.85	3	Horizontal	15	2.59	-	32.55	6.30	32.87

802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX

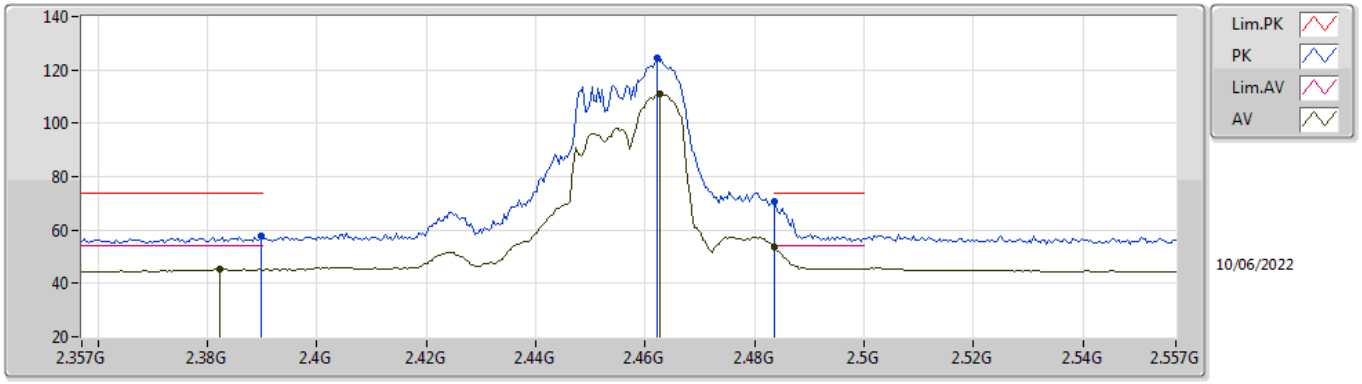


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3758G	58.16	74.00	-15.84	26.86	3	Vertical	286	1.80	-	27.50	3.80	-
AV	2.3758G	46.27	54.00	-7.73	14.97	3	Vertical	286	1.80	-	27.50	3.80	-
PK	2.4486G	125.92	Inf	-Inf	94.60	3	Vertical	286	1.80	-	27.50	3.82	-
AV	2.449G	112.46	Inf	-Inf	81.14	3	Vertical	286	1.80	-	27.50	3.82	-
PK	2.4878G	70.38	74.00	-3.62	38.81	3	Vertical	286	1.80	-	27.73	3.84	-
AV	2.4882G	53.31	54.00	-0.69	21.74	3	Vertical	286	1.80	-	27.73	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2457MHz_TX

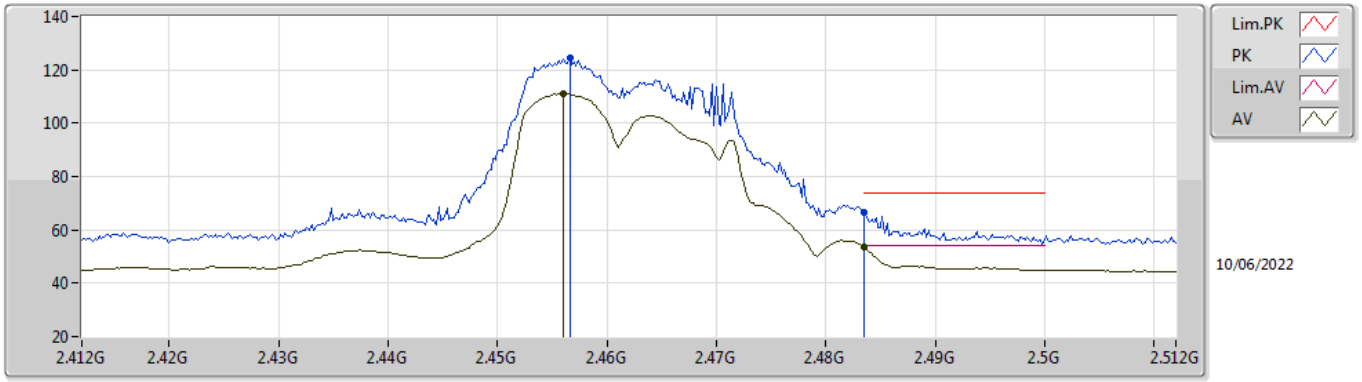


EUT Y_4TX
Setting 23
01-A-S-8

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	2.3898G	57.75	74.00	-16.25	26.39	3	Horizontal	299	1.66	-	27.56	3.80	-
AV	2.3822G	45.20	54.00	-8.80	13.87	3	Horizontal	299	1.66	-	27.53	3.80	-
PK	2.4622G	124.66	Inf	-Inf	93.26	3	Horizontal	299	1.66	-	27.57	3.83	-
AV	2.4626G	111.00	Inf	-Inf	79.59	3	Horizontal	299	1.66	-	27.58	3.83	-
PK	2.4835G	70.54	74.00	-3.46	39.00	3	Horizontal	299	1.66	-	27.70	3.84	-
AV	2.4835G	53.81	54.00	-0.19	22.27	3	Horizontal	299	1.66	-	27.70	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

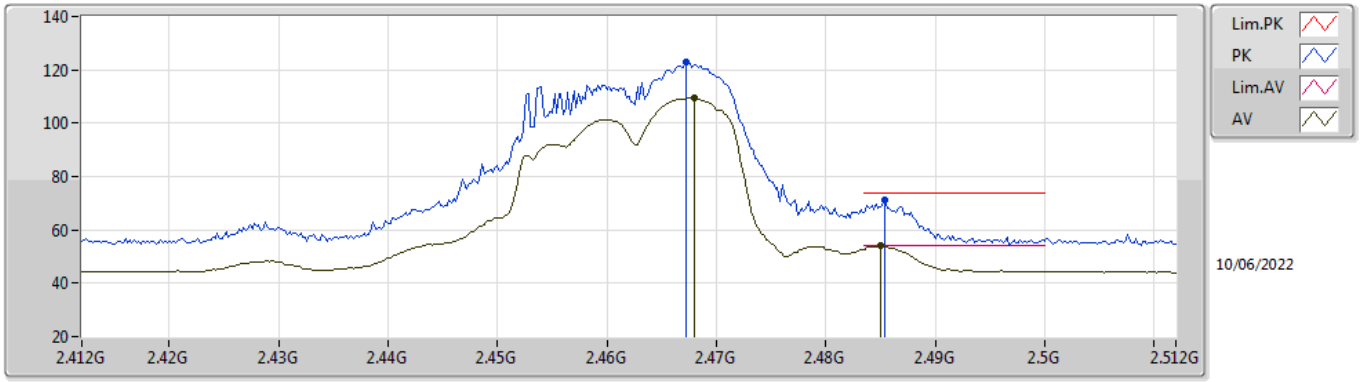


EUT Y_4TX
Setting 21.5
01-A-S-8

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	2.4566G	124.28	Inf	-Inf	92.91	3	Vertical	265	1.86	-	27.54	3.83	-
AV	2.456G	111.02	Inf	-Inf	79.65	3	Vertical	265	1.86	-	27.54	3.83	-
PK	2.4835G	66.69	74.00	-7.31	35.15	3	Vertical	265	1.86	-	27.70	3.84	-
AV	2.4835G	53.65	54.00	-0.35	22.11	3	Vertical	265	1.86	-	27.70	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

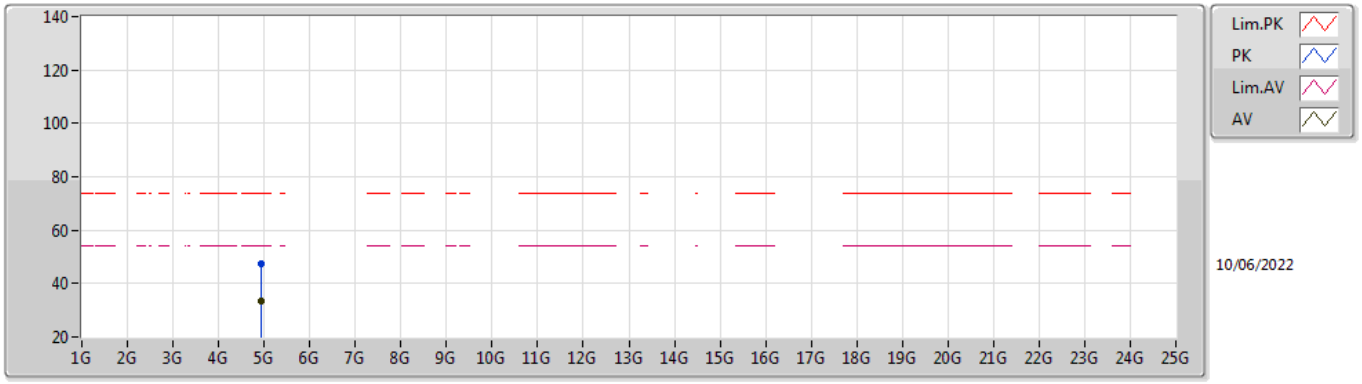


EUT Y_4TX
Setting 21.5
01-A-S-8

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	2.4672G	123.00	Inf	-Inf	91.57	3	Horizontal	304	1.70	-	27.60	3.83	-
AV	2.468G	109.38	Inf	-Inf	77.94	3	Horizontal	304	1.70	-	27.61	3.83	-
PK	2.4854G	71.07	74.00	-2.93	39.52	3	Horizontal	304	1.70	-	27.71	3.84	-
AV	2.485G	53.93	54.00	-0.07	22.38	3	Horizontal	304	1.70	-	27.71	3.84	-

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

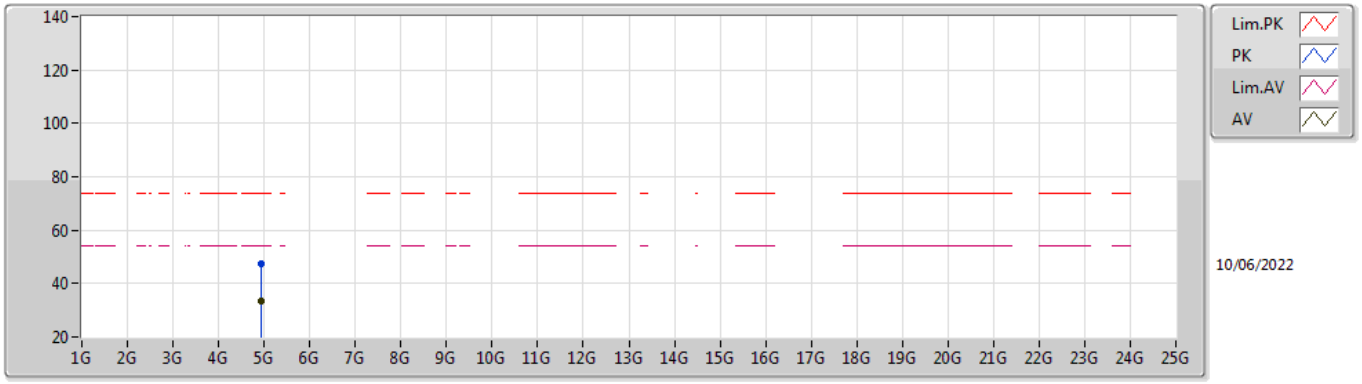


EUT X_4TX
Setting 21.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9226G	47.38	74.00	-26.62	41.30	3	Vertical	137	1.53	-	32.65	6.30	32.87
AV	4.92016G	33.67	54.00	-20.33	27.60	3	Vertical	137	1.53	-	32.64	6.30	32.87

802.11ax HEW20_Nss1,(MCS0)_4TX

2462MHz_TX

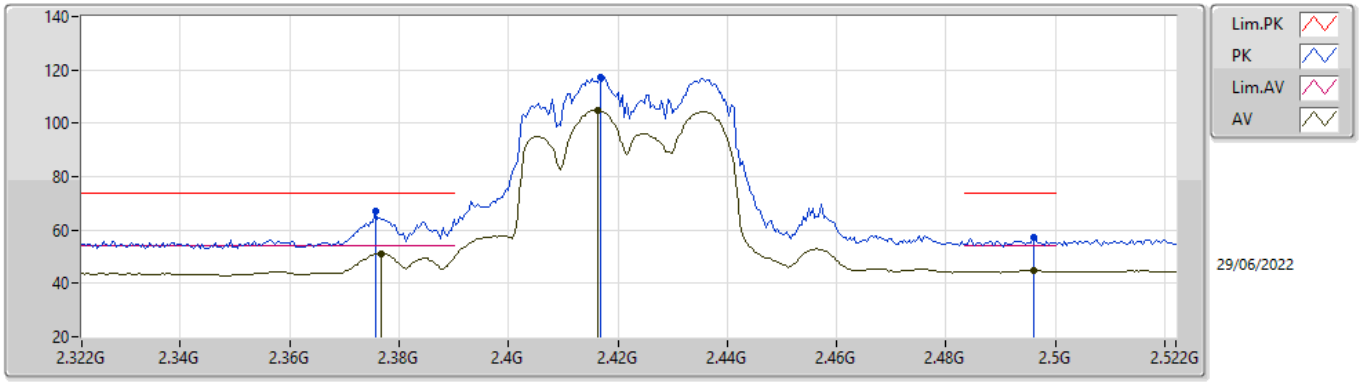


EUT X_4TX
Setting 21.5
01-A-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.92594G	47.54	74.00	-26.46	41.45	3	Horizontal	163	1.53	-	32.65	6.30	32.86
AV	4.92756G	33.69	54.00	-20.31	27.59	3	Horizontal	163	1.53	-	32.66	6.30	32.86

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

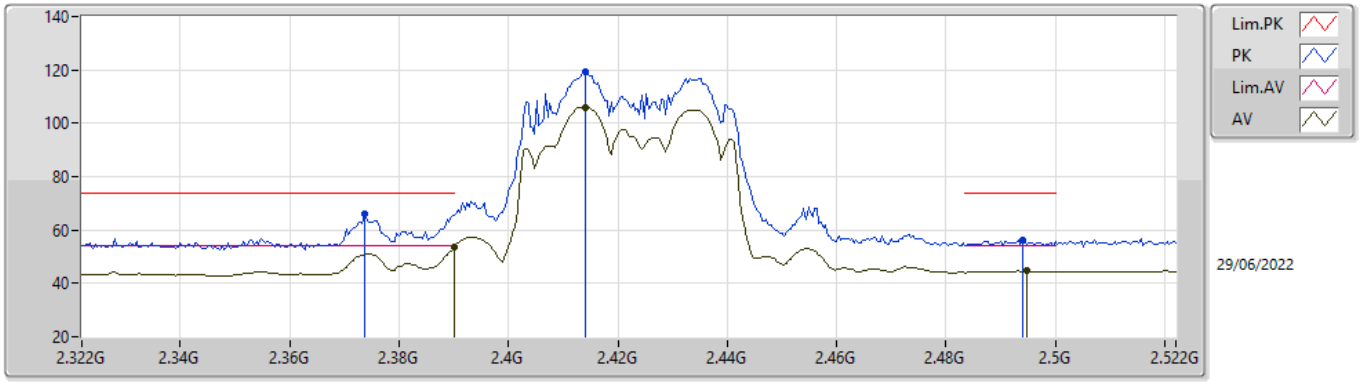


EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3756G	67.22	74.00	-6.78	36.98	3	Vertical	261	1.87	-	27.45	2.79	-
AV	2.3768G	51.23	54.00	-2.77	20.99	3	Vertical	261	1.87	-	27.45	2.79	-
PK	2.4168G	117.32	Inf	-Inf	86.98	3	Vertical	261	1.87	-	27.53	2.81	-
AV	2.4164G	104.78	Inf	-Inf	74.44	3	Vertical	261	1.87	-	27.53	2.81	-
PK	2.496G	57.12	74.00	-16.88	26.39	3	Vertical	261	1.87	-	27.88	2.85	-
AV	2.496G	44.85	54.00	-9.15	14.12	3	Vertical	261	1.87	-	27.88	2.85	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

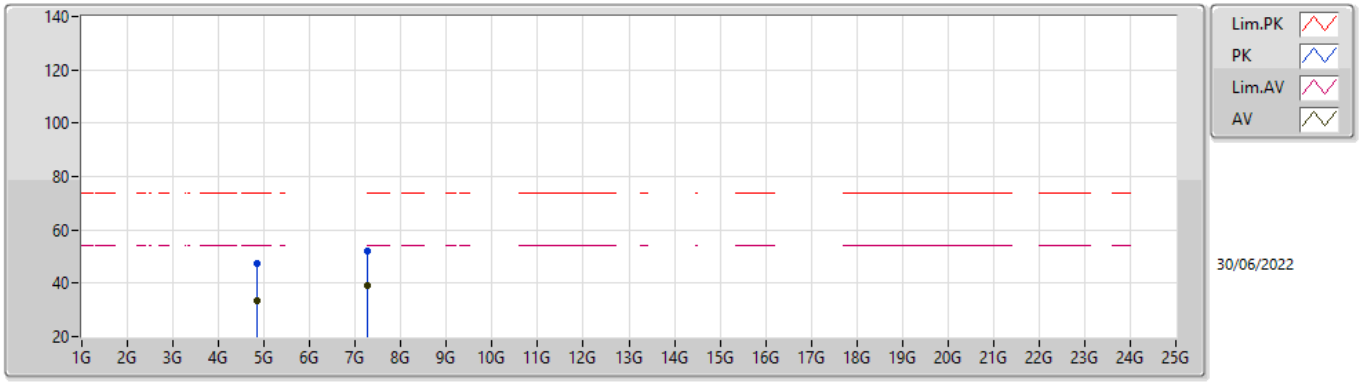


EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3736G	65.95	74.00	-8.05	35.71	3	Horizontal	119	1.86	-	27.45	2.79	-
AV	2.39G	53.50	54.00	-0.50	23.23	3	Horizontal	119	1.86	-	27.48	2.79	-
PK	2.414G	119.31	Inf	-Inf	88.97	3	Horizontal	119	1.86	-	27.53	2.81	-
AV	2.414G	106.12	Inf	-Inf	75.78	3	Horizontal	119	1.86	-	27.53	2.81	-
PK	2.494G	56.31	74.00	-17.69	25.60	3	Horizontal	119	1.86	-	27.86	2.85	-
AV	2.4948G	44.65	54.00	-9.35	13.93	3	Horizontal	119	1.86	-	27.87	2.85	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

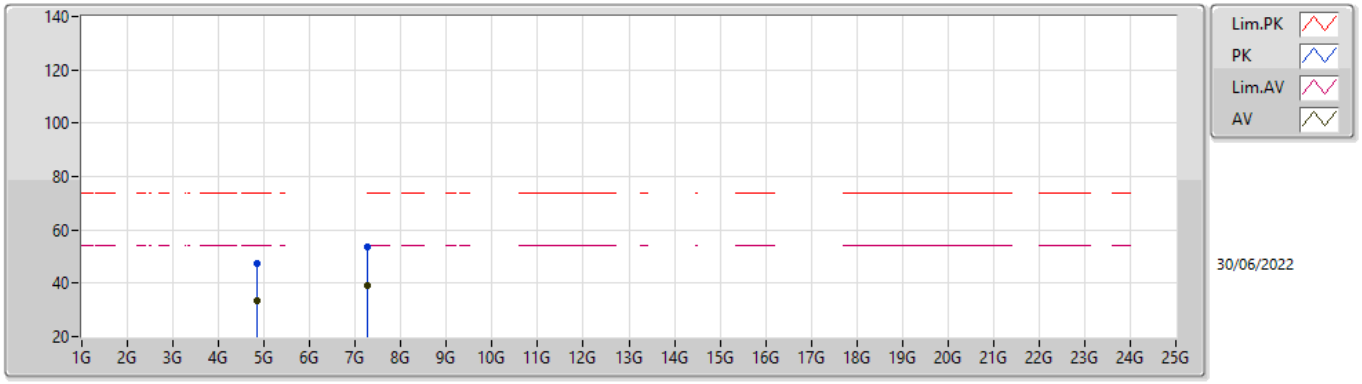


EUT X_4TX
Setting 19
04-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8429G	47.32	74.00	-26.68	42.97	3	Vertical	298	1.09	-	32.77	4.82	33.24
AV	4.84296G	33.48	54.00	-20.52	29.13	3	Vertical	298	1.09	-	32.77	4.82	33.24
PK	7.26384G	52.25	74.00	-21.75	42.40	3	Vertical	195	2.80	-	37.43	6.03	33.61
AV	7.26702G	38.96	54.00	-15.04	29.11	3	Vertical	195	2.80	-	37.43	6.03	33.61

802.11ax HEW40_Nss1,(MCS0)_4TX

2422MHz_TX

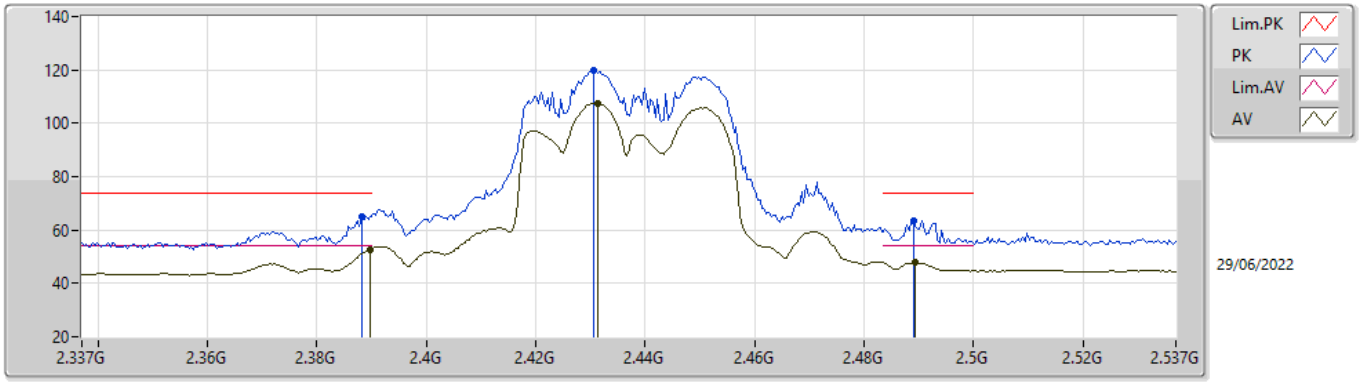


EUT X_4TX
Setting 19
04-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.8466G	47.60	74.00	-26.40	43.23	3	Horizontal	297	2.77	-	32.79	4.82	33.24
AV	4.84572G	33.53	54.00	-20.47	29.17	3	Horizontal	297	2.77	-	32.78	4.82	33.24
PK	7.26382G	53.58	74.00	-20.42	43.73	3	Horizontal	89	1.96	-	37.43	6.03	33.61
AV	7.26536G	39.05	54.00	-14.95	29.20	3	Horizontal	89	1.96	-	37.43	6.03	33.61

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

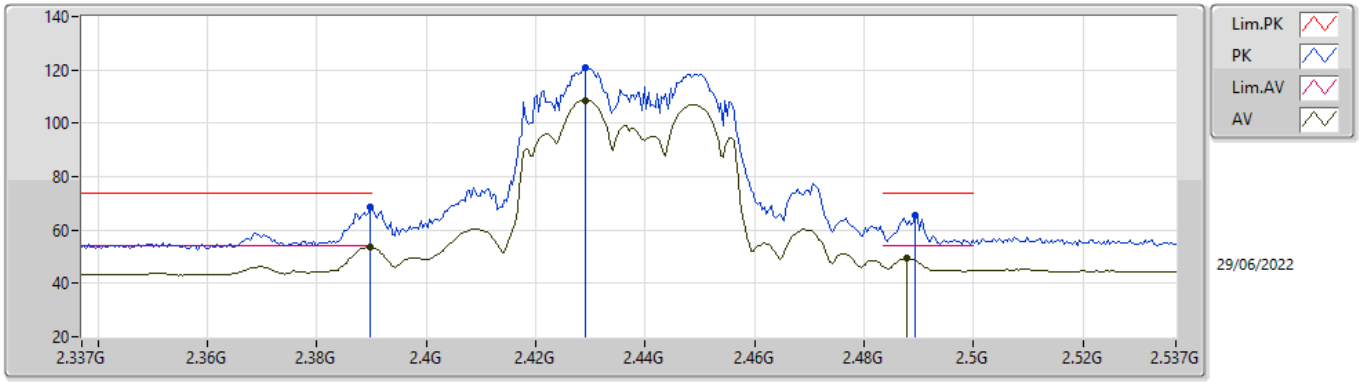


EUT Y_4TX
Setting 21.5
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3882G	65.25	74.00	-8.75	34.98	3	Vertical	262	1.89	-	27.48	2.79	-
AV	2.3898G	52.74	54.00	-1.26	22.47	3	Vertical	262	1.89	-	27.48	2.79	-
PK	2.4306G	119.65	Inf	-Inf	89.27	3	Vertical	262	1.89	-	27.56	2.82	-
AV	2.4314G	107.57	Inf	-Inf	77.19	3	Vertical	262	1.89	-	27.56	2.82	-
PK	2.489G	63.53	74.00	-10.47	32.86	3	Vertical	262	1.89	-	27.83	2.84	-
AV	2.4894G	47.97	54.00	-6.03	17.29	3	Vertical	262	1.89	-	27.84	2.84	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

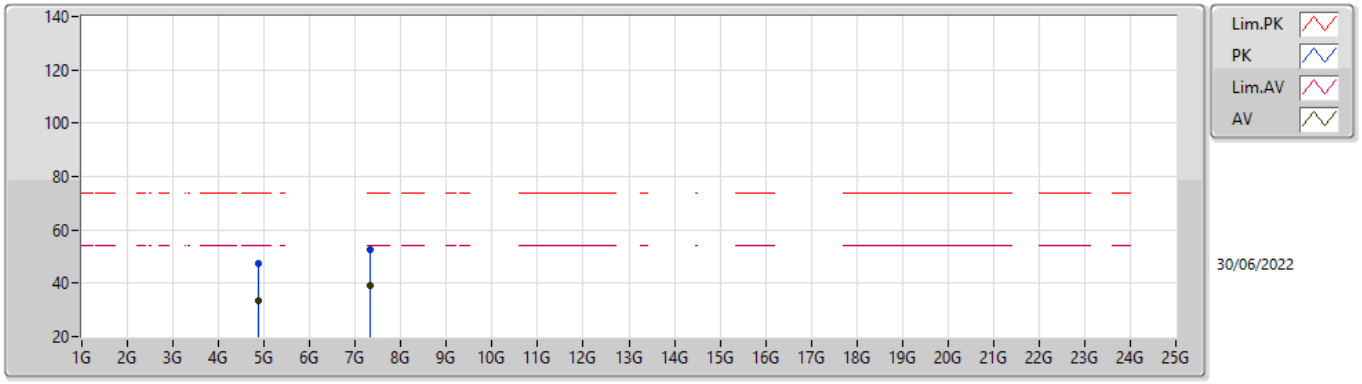


EUT Y_4TX
Setting 21.5
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3898G	68.85	74.00	-5.15	38.58	3	Horizontal	120	1.79	-	27.48	2.79	-
AV	2.3898G	53.58	54.00	-0.42	23.31	3	Horizontal	120	1.79	-	27.48	2.79	-
PK	2.429G	120.77	Inf	-Inf	90.40	3	Horizontal	120	1.79	-	27.56	2.81	-
AV	2.429G	108.55	Inf	-Inf	78.18	3	Horizontal	120	1.79	-	27.56	2.81	-
PK	2.4894G	65.49	74.00	-8.51	34.81	3	Horizontal	120	1.79	-	27.84	2.84	-
AV	2.4878G	49.35	54.00	-4.65	18.68	3	Horizontal	120	1.79	-	27.83	2.84	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

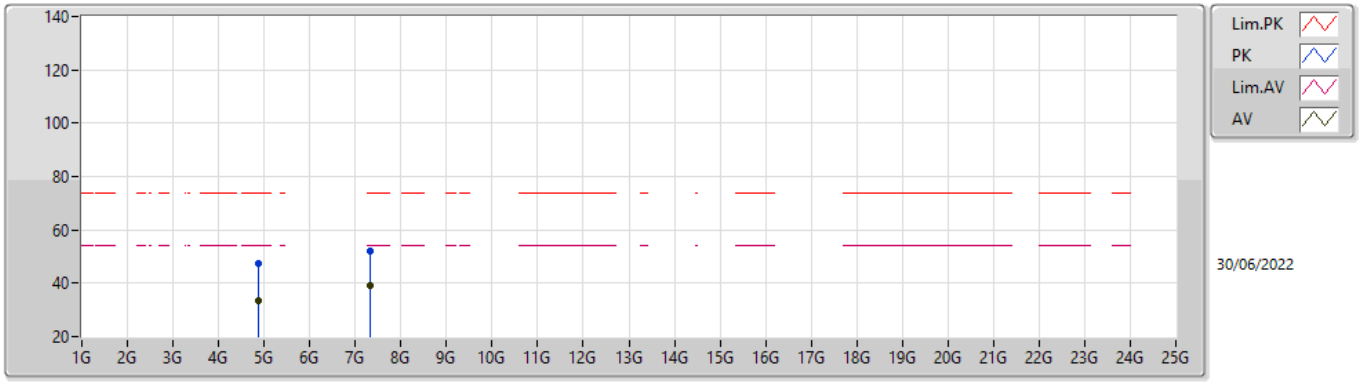


EUT X_4TX
Setting 21.5
04-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87898G	47.58	74.00	-26.42	43.04	3	Vertical	210	1.53	-	32.92	4.84	33.22
AV	4.8756G	33.50	54.00	-20.50	28.98	3	Vertical	210	1.53	-	32.90	4.84	33.22
PK	7.3138G	52.51	74.00	-21.49	42.62	3	Vertical	19	1.98	-	37.50	6.06	33.67
AV	7.31582G	38.99	54.00	-15.01	29.10	3	Vertical	19	1.98	-	37.50	6.06	33.67

802.11ax HEW40_Nss1,(MCS0)_4TX

2437MHz_TX

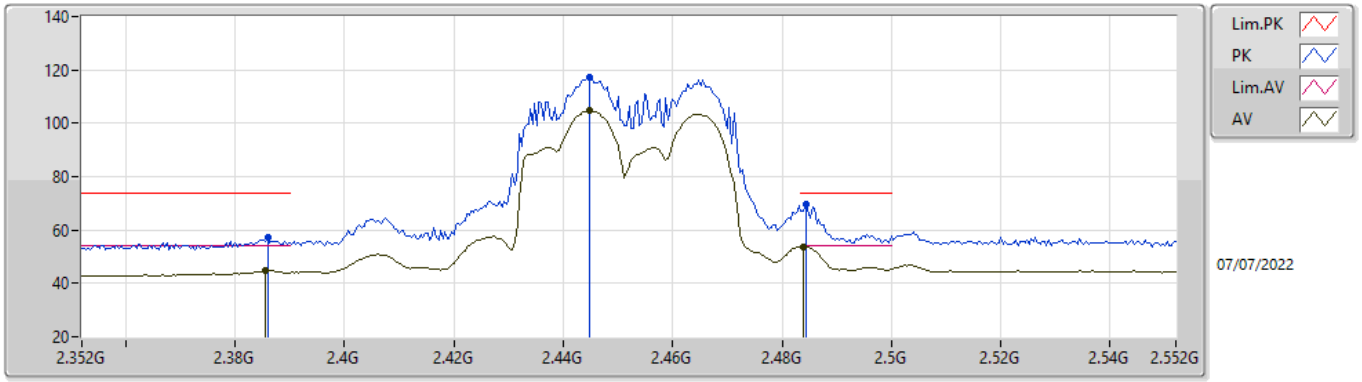


EUT X_4TX
Setting 21.5
04-D-S-8

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.87738G	47.21	74.00	-26.79	42.68	3	Horizontal	54	1.28	-	32.91	4.84	33.22
AV	4.87522G	33.55	54.00	-20.45	29.03	3	Horizontal	54	1.28	-	32.90	4.84	33.22
PK	7.31314G	52.15	74.00	-21.85	42.26	3	Horizontal	166	1.03	-	37.50	6.06	33.67
AV	7.31494G	38.95	54.00	-15.05	29.06	3	Horizontal	166	1.03	-	37.50	6.06	33.67

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

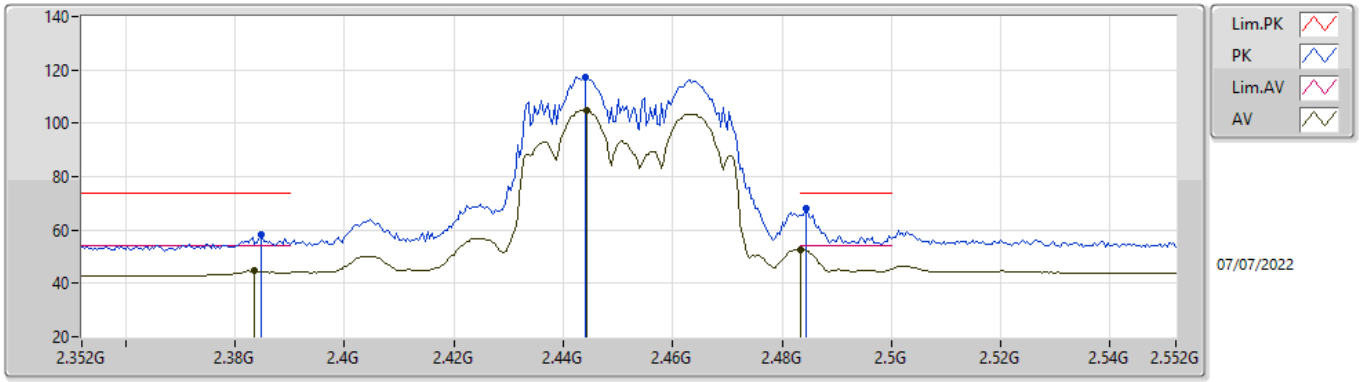


EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.386G	57.21	74.00	-16.79	26.95	3	Vertical	273	2.08	-	27.47	2.79	-
AV	2.3856G	44.68	54.00	-9.32	14.42	3	Vertical	273	2.08	-	27.47	2.79	-
PK	2.4448G	117.16	Inf	-Inf	86.75	3	Vertical	273	2.08	-	27.59	2.82	-
AV	2.4448G	104.59	Inf	-Inf	74.18	3	Vertical	273	2.08	-	27.59	2.82	-
PK	2.4844G	69.53	74.00	-4.47	38.88	3	Vertical	273	2.08	-	27.81	2.84	-
AV	2.484G	53.83	54.00	-0.17	23.19	3	Vertical	273	2.08	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

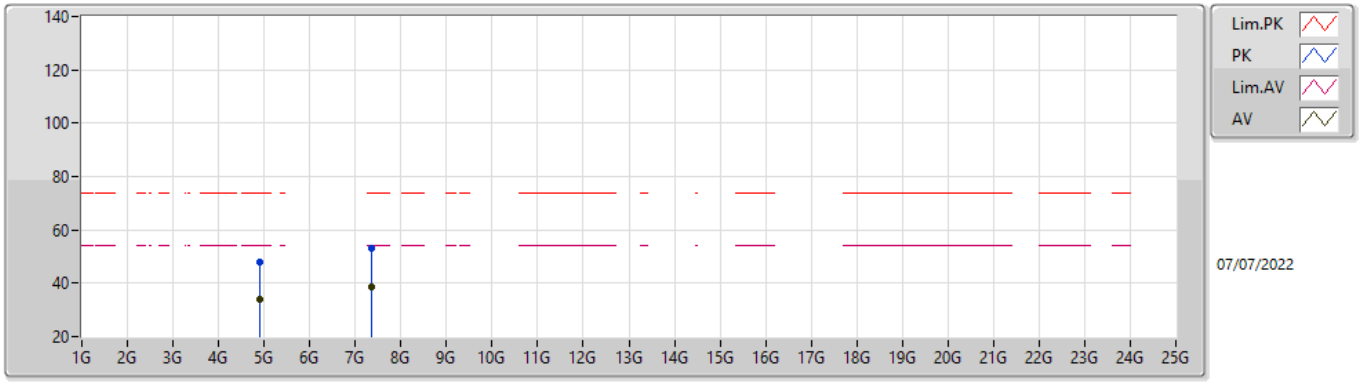


EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	2.3848G	58.04	74.00	-15.96	27.78	3	Horizontal	115	1.80	-	27.47	2.79	-
AV	2.3836G	44.65	54.00	-9.35	14.39	3	Horizontal	115	1.80	-	27.47	2.79	-
PK	2.444G	117.40	Inf	-Inf	86.99	3	Horizontal	115	1.80	-	27.59	2.82	-
AV	2.4444G	104.88	Inf	-Inf	74.47	3	Horizontal	115	1.80	-	27.59	2.82	-
PK	2.4844G	68.10	74.00	-5.90	37.45	3	Horizontal	115	1.80	-	27.81	2.84	-
AV	2.4835G	52.67	54.00	-1.33	22.03	3	Horizontal	115	1.80	-	27.80	2.84	-

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX

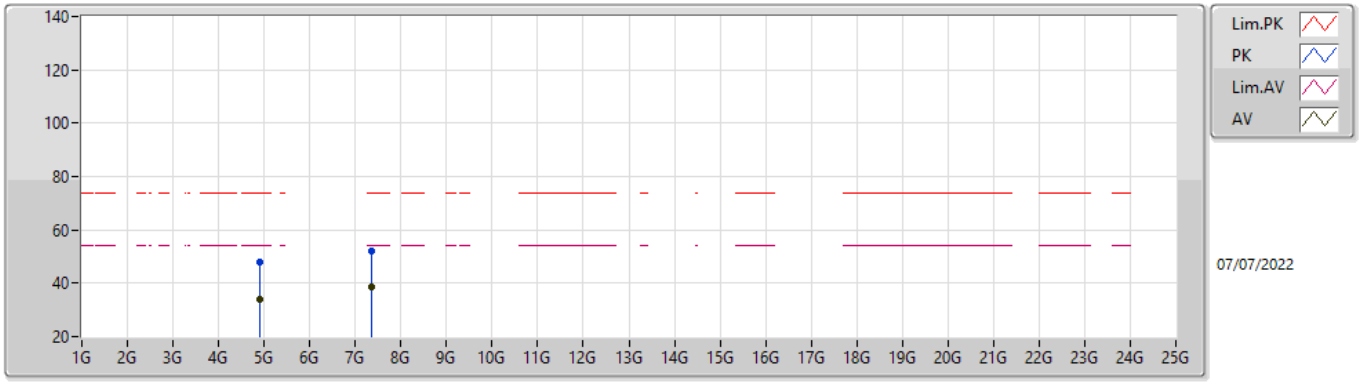


EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.9077G	48.15	74.00	-25.85	42.89	3	Vertical	279	1.80	-	33.02	4.85	32.61
AV	4.90754G	34.19	54.00	-19.81	28.93	3	Vertical	279	1.80	-	33.02	4.85	32.61
PK	7.34836G	52.85	74.00	-21.15	42.51	3	Vertical	306	1.29	-	37.50	6.07	33.23
AV	7.366G	38.72	54.00	-15.28	28.31	3	Vertical	306	1.29	-	37.56	6.08	33.23

802.11ax HEW40_Nss1,(MCS0)_4TX

2452MHz_TX



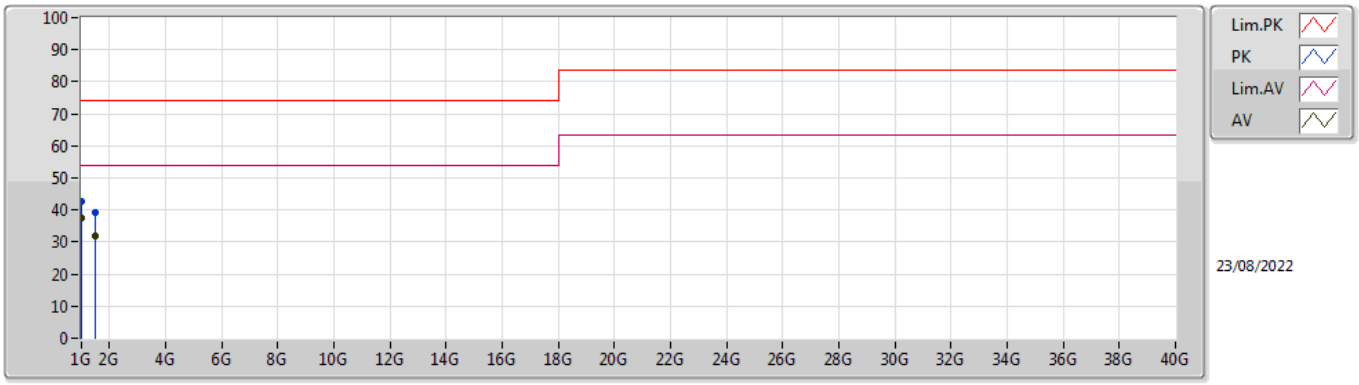
EUT Y_4TX
Setting 19
04-E-G-4

Type	Freq	Level	Limit	Margin	Raw	Dist	Condition	Azimuth	Height	Comment	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dBuV)	(m)		(°)	(m)		(dB)	(dB)	(dB)
PK	4.91392G	47.95	74.00	-26.05	42.66	3	Horizontal	144	1.80	-	33.03	4.86	32.60
AV	4.91236G	33.96	54.00	-20.04	28.69	3	Horizontal	144	1.80	-	33.02	4.86	32.61
PK	7.35044G	52.31	74.00	-21.69	41.96	3	Horizontal	104	1.80	-	37.50	6.08	33.23
AV	7.34848G	38.51	54.00	-15.49	28.17	3	Horizontal	104	1.80	-	37.50	6.07	33.23

Summary

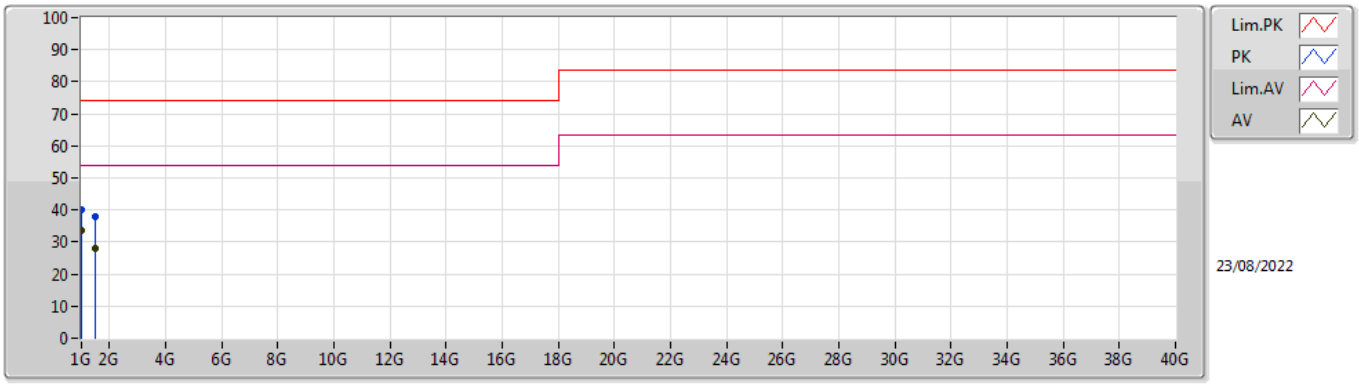
Mode	Result	Type	Freq (Hz)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Condition
Mode 1	Pass	AV	1.00003G	37.49	54.00	-16.51	Vertical

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.00006G	42.48	74.00	-31.52	-8.80	3	Vertical	163	1.15	-	51.28	24.70	2.90	36.40
AV	1.00003G	37.49	54.00	-16.51	-8.79	3	Vertical	163	1.15	"Worst"	46.28	24.70	2.90	36.39
PK	1.51392G	39.32	74.00	-34.68	-7.03	3	Vertical	150	1.00	-	46.35	25.57	3.83	36.43
AV	1.51357G	31.91	54.00	-22.09	-7.03	3	Vertical	150	1.00	-	38.94	25.57	3.83	36.43

Mode 1



Type	Freq	Level	Limit	Margin	Factor	Dist	Condition	Azimuth	Height	Comment	Raw	AF	CL	PA
	(Hz)	(dBuV/m)	(dBuV/m)	(dB)	(dB/m)	(m)		(°)	(m)		(dBuV/m)	(dB/m)	(dB)	(dB)
PK	1.00007G	40.19	74.00	-33.81	-8.80	3	Horizontal	193	1.08	-	48.99	24.70	2.90	36.40
AV	1.00005G	33.71	54.00	-20.29	-8.80	3	Horizontal	193	1.08	"Worst"	42.51	24.70	2.90	36.40
PK	1.51395G	37.97	74.00	-36.03	-7.03	3	Horizontal	330	1.00	-	45.00	25.57	3.83	36.43
AV	1.51353G	28.15	54.00	-25.85	-7.03	3	Horizontal	330	1.00	-	35.18	25.57	3.83	36.43